

Montana Rest Area Plan Update

APPENDIX B TECHNICAL MEMORANDUM

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CONTENTS

1.0 INTRODUCTION 1

2.0 SITE EVALUATION AND HEALTH INDEX SCORING 3

 2.1 Calculated Scoring Elements 5

 2.1.1 Rest Area Age and Remaining Service Life for Parking and Structures..... 5

 2.1.2 Parking and Restroom Stall Demand – WTI Report..... 6

 2.1.3 Parking and Restroom Stall Demand – Health Index Calculations 10

 2.1.4 Water Demand..... 19

 2.1.5 Wastewater Demand..... 27

 2.2 Scoring Summary 31

3.0 NETWORK EVALUATION 33

TABLES

Table 1.1 Montana Rest Areas and Parking Areas.....2

Table 2.1 Health Index Point Values4

Table 2.2 Rest Area Age.....5

Table 2.3 Average Dwell Time9

Table 2.4 Passenger Vehicle Parking (2011 and 2031)15

Table 2.5 Commercial Vehicle Parking (2011 and 2031).....16

Table 2.6 Restroom Stalls (2011 and 2031).....18

Table 2.7 Monitored Primary and Secondary Drinking Water Contaminants25

Table 2.8 Water System Health Index Scoring Summary26

Table 2.9 Wastewater System Health Index Scoring Summary.....30

Table 2.10 Health Index Scoring Summary.....31

Table 3.1 Corridor Segments Exceeding 70 Miles (Year-round Rest Areas Only)34

Table 3.2 Corridor Segments Exceeding 70 Miles (All Rest Areas and Parking Areas)35

FIGURES

Figure 2-1 Health Index Score Distribution for State-maintained Rest Areas33

EQUATIONS

Equation 1 Parking Spaces – WTI Report6

Equation 2 Restroom Stalls – WTI Report.....7

Equation 3 Parking Spaces – Health Index Calculations with Door Count Data10

Equation 4 Parking Stalls – Health Index Calculations without Door Count Data11

Equation 5 Restroom Stalls – Health Index Calculations11

Equation 6 Site-specific P Value – Health Index Calculations13

Equation 7 Peak Daily Domestic Water Usage.....20

Equation 8 Additional Volume Required to Satisfy Peak Instantaneous Demand.....22

Equation 9 Wastewater System Design Flow without Door Count Data28

Equation 10 Wastewater System Design Flow with Door Count Data.....28

ATTACHMENTS

Attachment 1	Flowchart
Attachment 2	Health Index Scoring Definitions
Attachment 3	Site Evaluation Forms
Attachment 4	Rest Area Age and Service Life
Attachment 5	Parking/Restroom Stall Demand Calculations
Attachment 6	Seasonal Day of the Week for Axle Counts 2010 & 2011
Attachment 7	Parking/Restroom Stall Demand Charts
Attachment 8	Water Calculations
Attachment 9	Wastewater Calculations
Attachment 10	Health Index Scoring
Attachment 11	Summary Sheets
Attachment 12	Spacing Analysis

1.0 INTRODUCTION

This technical memorandum summarizes DOWL HKM’s site and network evaluation efforts in support of the Montana Rest Area Plan update. These efforts correspond with Step 1 and Step 2 in the flowchart provided in Attachment 1, and will assist the Montana Department of Transportation (MDT) Statewide Rest Area Prioritization Plan Committee’s asset management approach in prioritizing individual rest area projects.

MDT distinguishes rest areas and parking areas based on the level and type of service provided at each facility type. Rest areas provide a higher level of service, generally offering dedicated parking spaces for passenger and commercial vehicles; a building containing flush toilets and sinks with running water; picnic areas; and other amenities. Parking areas generally provide open parking for passenger and commercial vehicles, and vault toilets without running water. Sites are further distinguished by the entity responsible for construction, operation, and maintenance. MDT is responsible for state-maintained rest areas, communities are responsible for city park rest areas, and other entities (such as federal/state agencies) maintain rest areas and parking areas classified as other sites.

Table 1.1 lists rest areas and parking areas within Montana. Tables in the following sections list varying numbers of sites. Some site evaluation elements include the total number of state-maintained rest areas counting directional east/west and north/south sites as separate facilities, for a total of 49 sites. In other cases, two directional facilities were counted as a single site, resulting in a total of 35 state-maintained rest areas. The network spacing analysis (discussed in Chapter 3.0) includes consideration of city park rest areas, other rest areas, and parking areas, resulting in a larger total number of sites.

Table 1.1 Montana Rest Areas and Parking Areas

State-maintained Rest Areas				State-maintained Parking Areas		City Park Rest Areas		Other Sites	
1	Anaconda Rest Area	26	Greycliff (East) Rest Area	1	Alberton (East) Parking Area	1	Big Sandy City Park Rest Area	1	Choteau Rest Area
2	Armington Junction Rest Area	27	Greycliff (West) Rest Area	2	Alberton (West) Parking Area	2	Chester City Park Rest Area	2	Lolo Pass Rest Area
3	Bad Route Rest Area	28	Hardin (East) Rest Area	3	Barretts Parking Area	3	Cut Bank City Park Rest Area	3	Ravalli Hill (North) Rest Area
4	Bearmouth (East) Rest Area	29	Hardin (West) Rest Area	4	Dupuyer Parking Area	4	Ennis City Park Rest Area	4	Ravalli Hill (South) Rest Area
5	Bearmouth (West) Rest Area	30	Harlowton Rest Area	5	Homestake Pass (East) Parking Area	5	Lewistown City Park Rest Area	5	Summit Parking Area
6	Bozeman Rest Area	31	Hathaway (East) Rest Area	6	Homestake Pass (West) Parking Area	6	Malta City Park Rest Area	6	West Yellowstone Rest Area
7	Bridger Rest Area	32	Hathaway (West) Rest Area	7	Livingston (East) Parking Area	7	Plentywood City Park Rest Area	7	Wibaux Rest Area
8	Broadus Rest Area	33	Hysham (East) Rest Area	8	Locate Parking Area	8	Roundup City Park Rest Area		
9	Clearwater Junction Rest Area	34	Hysham (West) Rest Area	9	Lyons Creek (North) Parking Area	9	Twin Bridges City Park Rest Area		
10	Columbus (East) Rest Area	35	Jefferson City (North) Rest Area	10	Lyons Creek (South) Parking Area	10	Whitefish City Park Rest Area		
11	Columbus (West) Rest Area	36	Jefferson City (South) Rest Area	11	Red Rock (North) Parking Area				
12	Conrad Rest Area	37	Lima Rest Area	12	Red Rock (South) Parking Area				
13	Culbertson Rest Area	38	Lost Trail Pass Rest Area	13	Rock Creek (East) Parking Area				
14	Custer (East) Rest Area	39	Mosby Rest Area	14	Rock Creek (West) Parking Area				
15	Custer (West) Rest Area	40	Quartz Flats (East) Rest Area						
16	Dearborn (North) Rest Area	41	Quartz Flats (West) Rest Area						
17	Dearborn (South) Rest Area	42	Raynolds Pass Rest Area						
18	Dena Mora (East) Rest Area	43	Roberts Rest Area						
19	Dena Mora (West) Rest Area	44	Sweet Grass Rest Area						
20	Divide (North) Rest Area	45	Teton River (North) Rest Area						
21	Divide (South) Rest Area	46	Teton River (South) Rest Area						
22	Emigrant Rest Area	47	Troy Rest Area						
23	Flowing Wells Rest Area	48	Vandalia Rest Area						
24	Gold Creek (East) Rest Area	49	Vista Point Rest Area ⁽¹⁾						
25	Gold Creek (West) Rest Area								

Source: MDT, 2013. Parking areas, city park rest areas, and other sites are not included in the health index scoring. MDT could consider including these facilities in the future.

Note: The *Rest Area Use: Data Acquisition and Usage Estimation Report* (2011) prepared by the Western Transportation Institute (WTI) evaluated 44 state-maintained rest areas, not including Conrad, Dearborn North and South, Harlowton, and Lima. These rest areas were constructed/reconstructed from 2010-2012, overlapping with the WTI report publication date.

⁽¹⁾ Site does not have domestic water service. Wastewater service consists of vaulted toilets.

2.0 Site Evaluation and Health Index Scoring

In coordination with MDT, DOWL HKM developed a health index scoring methodology to assess the adequacy and availability of services at state-maintained rest areas. The scoring system considers parking, site features, structural elements, water, wastewater, and amenities at each rest area site. Scoring ranges from 0 points to 100 points, with a higher score indicating a better facility. The total number of possible points listed in Table 2.1 indicates the relative importance of each scoring category. For example, water and wastewater systems are critical elements for rest area function and are collectively weighted more heavily than picnic areas. Demand calculations developed as part of the health index scoring methodology are intended for relative statewide comparison and planning purposes only, and should not be used for design.

MDT collected data in July 2013 to assess the presence and/or condition of parking stalls, exterior and interior lighting, restroom fixtures and stalls, floors, paint, roofing, siding, facility ventilation, landscaping, picnic areas, pavement and sidewalks, signage, and exterior waste receptacles at each site. Using a qualitative scale, MDT rated elements as excellent, good, fair, or poor according to objective rating definitions (provided in Attachment 2). Health index condition scoring is based on MDT's completed site evaluation forms (provided in Attachment 3).

MDT also collected information about the presence of site amenities, such as highway maps, display cases, interpretive signs/historical markers, drinking fountains, interactive monitors, pet areas, playground areas, seating, security features, telephones, vending machines, trails, cell phone coverage, and wireless internet availability. Scoring for the amenities category is based on this data.

Water and wastewater elements were assessed using a variety of data sources including source water delineation and assessment reports, maintenance division questionnaires, and correspondence with maintenance personnel. In addition, DOWL HKM used several online databases to collect information, including the Montana Bureau of Mines and Geology (MBMG) Ground-Water Information Center (GWIC), Montana Department of Environmental Quality (DEQ) Public Water Supply Reports, United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soils Data, Montana Department of Natural Resources and Conservation (DNRC) Water Rights Bureau, and the Montana Natural Resource Information System (NRIS).

Section 2.1 lists calculated scoring elements.

Table 2.1 Health Index Point Values

Element		Point Values				
		Excellent	Good	Fair	Poor	
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	
	Commercial Vehicle Parking Stalls	7.0	4.7	2.3	0.0	
	Drainage Condition	1.0	0.7	0.3	0.0	
	Pavement Condition	1.0	0.7	0.3	0.0	
	Pavement Striping Quality	1.0	0.7	0.3	0.0	
	Remaining Service Life	2.0	1.3	0.7	0.0	
	SUBTOTAL	19.0	12.7	6.3	0.0	
Site	Exterior Lighting	2.0	1.3	0.7	0.0	
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	
	Picnic Areas	1.0	0.7	0.3	0.0	
	Sidewalks	2.0	1.3	0.7	0.0	
	Site Signage	1.0	0.7	0.3	0.0	
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	
	SUBTOTAL	8.0	5.3	2.7	0.0	
Structure	Facility Ventilation	2.0	-	-	0.0	
	Floor Condition	1.0	0.7	0.3	0.0	
	Interior Lighting	2.0	1.3	0.7	0.0	
	Paint	1.0	0.7	0.3	0.0	
	Remaining Service Life	2.0	1.3	0.7	0.0	
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	
	Restroom Stalls	5.0	3.3	1.7	0.0	
	Roofing	2.0	1.3	0.7	0.0	
	Siding	2.0	1.3	0.7	0.0	
	SUBTOTAL	19.0	11.3	5.7	0.0	
Water	Municipal System	25.0	-	-	-	
	On-Site System	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0
		Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0
		Operation & Maintenance	5.0	3.3	1.7	0.0
		Backflow Prevention	1.0	-	-	0.0
		Source Quality (Transient Non-community Standards)	5.0	3.3	1.7	0.0
		Remaining Service Life	5.0	3.3	1.7	0.0
SUBTOTAL	25.0	16.0	8.0	0.0		
Wastewater	Municipal System	25.0	-	-	-	
	On-Site System	Treatment System	4.0	2.7	1.3	0.0
		Wastewater Design Flow	6.0	-	-	0.0
		Operation & Maintenance	6.0	4.0	2.0	0.0
		Site Constraints	3.0	2.0	1.0	0.0
		Remaining Service Life	6.0	4.0	2.0	0.0
SUBTOTAL	25.0	12.7	6.3	0.0		
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	
	SUBTOTAL	4.0	2.7	1.3	0.0	
TOTAL		100.0	60.7	30.3	0.0	

Source: DOWL HKM, 2014.

2.1 Calculated Scoring Elements

2.1.1 Rest Area Age and Remaining Service Life for Parking and Structures

State-maintained rest areas range in age from new construction to more than fifty years old, with three to eight rest areas constructed in each decade from 1960 through 2009. Since 2009, MDT has constructed or reconstructed six rest areas. Table 2.2 and Attachment 4 list approximate year of rest area construction and age. The year of construction/reconstruction does not reflect minor rehabilitation efforts that may have occurred more recently at some rest areas.

Table 2.2 Rest Area Age

State-maintained Rest Areas					
Rest Area (Alphabetical)	Year of Construction/ Reconstruction	Age in 2014 (Years)	Rest Area (In Order of Oldest to Newest)	Year of Construction/ Reconstruction	Age in 2014 (Years)
1 Anaconda Rest Area	2008	6	1 Hathaway Rest Area	1963	51
2 Armington Junction Rest Area	1967	47	2 Flowing Wells Rest Area	1964	50
3 Bad Route Rest Area	1973	41	3 Armington Junction Rest Area	1967	47
4 Bearmouth Rest Area	2014	0	4 Hysham Rest Area	1967	47
5 Bozeman Rest Area	2000	14	5 Quartz Flats Rest Area	1967	47
6 Bridger Rest Area	1989	25	6 Vandalia Rest Area	1967	47
7 Broadus Rest Area	1987	27	7 Roberts Rest Area	1968	46
8 Clearwater Junction Rest Area	1999	15	8 Reynolds Pass Rest Area	1969	45
9 Columbus Rest Area	1972	42	9 Columbus Rest Area	1972	42
10 Conrad Rest Area	2012	2	10 Hardin Rest Area	1972	42
11 Culbertson Rest Area	1998	16	11 Jefferson City Rest Area	1972	42
12 Custer Rest Area	1975	39	12 Bad Route Rest Area	1973	41
13 Dearborn Rest Area	2012	2	13 Gold Creek Rest Area	1973	41
14 Dena Mora Rest Area	2004	10	14 Custer Rest Area	1975	39
15 Divide Rest Area	1977	37	15 Divide Rest Area	1977	37
16 Emigrant Rest Area	1989	25	16 Teton River Rest Area	1978	36
17 Flowing Wells Rest Area	1964	50	17 Broadus Rest Area	1987	27
18 Gold Creek Rest Area	1973	41	18 Bridger Rest Area	1989	25
19 Greycliff Rest Area	2014	0	19 Emigrant Rest Area	1989	25
20 Hardin Rest Area	1972	42	20 Troy Rest Area	1991	23
21 Harlowton Rest Area	2012	2	21 Vista Point Rest Area ⁽¹⁾	1995	19
22 Hathaway Rest Area	1963	51	22 Culbertson Rest Area	1998	16
23 Hysham Rest Area	1967	47	23 Clearwater Junction Rest Area	1999	15
24 Jefferson City Rest Area	1972	42	24 Bozeman Rest Area	2000	14
25 Lima Rest Area	2010	4	25 Lost Trail Pass Rest Area	2001	13
26 Lost Trail Pass Rest Area	2001	13	26 Sweet Grass Rest Area	2002	12
27 Mosby Rest Area	2005	9	27 Dena Mora Rest Area	2004	10
28 Quartz Flats Rest Area	1967	47	28 Mosby Rest Area	2005	9

State-maintained Rest Areas						
Rest Area (Alphabetical)	Year of Construction/ Reconstruction	Age in 2014 (Years)	Rest Area (In Order of Oldest to Newest)	Year of Construction/ Reconstruction	Age in 2014 (Years)	
29 Reynolds Pass Rest Area	1969	45	29 Anaconda Rest Area	2008	6	
30 Roberts Rest Area	1968	46	30 Lima Rest Area	2010	4	
31 Sweet Grass Rest Area	2002	12	31 Conrad Rest Area	2012	2	
32 Teton River Rest Area	1978	36	32 Dearborn Rest Area	2012	2	
33 Troy Rest Area	1991	23	33 Harlowton Rest Area	2012	2	
34 Vandalia Rest Area	1967	47	34 Bearmouth Rest Area	2014	0	
35 Vista Point Rest Area ⁽¹⁾	1995	19	35 Greycliff Rest Area	2014	0	

Source: MDT and Rest Area Contacts, 2013.

⁽¹⁾ Site does not have domestic water service. Wastewater service consists of vaulted toilets.

For parking and structure elements, the remaining service life was calculated as the difference between the design life and the age of the facility. A design life of 20 years was used for parking elements and a design life of 50 years was used for rest area buildings. Water and wastewater service life is discussed in later sections.

2.1.2 Parking and Restroom Stall Demand – WTI Report

The American Association of State Highway and Transportation Officials (AASHTO) *Guide for Development of Rest Areas on Major Arterials and Freeways* (1999) provides recommendations for estimating rest area usage based on national trends. MDT initiated a research project with the Western Transportation Institute (WTI) to develop guidelines that more accurately reflect conditions specific to Montana. The project culminated in completion of the *Rest Area Use: Data Acquisition and Usage Estimation Report* (2011). The goal of the WTI report was to investigate some of the variables thought to affect rest area usage, and identify patterns at select study sites for application at all state-maintained rest areas in the absence of site-specific data. WTI noted variables such as trip length, trip purpose, and traffic composition (e.g., local versus non-local drivers) were not studied, and may affect rest area usage.¹

Equation 1 identifies WTI variables used for estimating the recommended number of passenger vehicle (car) and commercial vehicle (truck) parking spaces.

Equation 1 Parking Spaces – WTI Report

$$N_c \text{ or } N_t = \frac{PHV * P * D_c \% \text{ or } D_t \% * PF * V_{HSc} \text{ or } V_{HSt}}{UCF}$$

- N_c = Number of parking spaces for cars (passenger vehicles)
- N_t = Number of parking spaces for trucks (commercial vehicles)
- PHV = Peak hour volume (mainline)

¹ WTI, page 2.

- P = Proportion of mainline traffic stopping at rest area
- $D_{c\%}$ = Percentage of cars (passenger vehicles) in the mainline traffic stream during daytime/nighttime periods
- $D_{t\%}$ = Percentage of trucks (commercial vehicles) in the mainline traffic stream during daytime/nighttime periods
- PF = Peak factor (ratio of average-day usage during the five peak summer months compared with the average over the entire year)
- VHS_c = Average dwell time for cars (passenger vehicles) in minutes
- VHS_t = Average dwell time for trucks (commercial vehicles) in minutes
- UCF = Unit conversion factor = 60 (60 minutes/hour)

Equation 2 identifies the variables used by WTI for estimating the recommended number of restroom stalls.

Equation 2 Restroom Stalls – WTI Report

$$T = \frac{UV * PF * D_2}{UHS}$$

- T = Number of restroom stalls
- UV = Restroom users per vehicle
- PF = Peak factor (ratio of average-day usage during the five peak summer months compared with the average day usage over the entire year)
- D_2 = Total vehicles stopping at rest area during peak hour
- UHS = Users per hour per restroom stall, based on a two-minute cycle = 30

The following sections discuss WTI methods and recommendations for calculating rest area parking and restroom stall usage.

Peak Hour Volume (PHV)

The peak hour volume (PHV) refers to the highest hourly mainline volume occurring during daytime and nighttime periods. WTI defines daytime as the period from 9:00 a.m. to 4:00 p.m., and nighttime as the period from midnight to 6:00 a.m. MDT supplied hourly mainline counts to WTI for their analysis.

WTI focused on the industry-standard peak hour as the analysis period in order to identify parking and restroom facilities needed during the time of highest demand during the day.

Proportion of Mainline Traffic Stopping at Rest Area (P)

WTI collected daily vehicular traffic counts and classification data for vehicles entering nearly all state-maintained rest areas (defined as coverage stations) using portable traffic counters with pneumatic tubes at rest area entrance ramps. WTI used these site-specific short-term counts,

along with hourly and daily mainline counts provided by MDT, to estimate the percentage of vehicles leaving the mainline to stop at rest areas. WTI grouped the results of their investigation according to adjacent highway type (including high- and low-volume interstate facilities and high- and low-volume arterials) and statistical percentiles.

WTI Guideline #1 notes a reasonable estimation for the proportion of mainline traffic stopping at rest areas on interstate highways and rural arterials is 16 percent and 25 percent, respectively, which corresponds to the 85th percentile stopping percentage for the two facility types during the daytime period.

WTI performed linear regression modeling in an attempt to identify correlations between rest area usage as a percentage of mainline traffic volumes and characteristics such as proximity to upstream/downstream cities and rest area condition. In their report, WTI noted “no model was viewed to be strong enough to warrant being employed by MDT to estimate rest area usage.”² This reinforces the site-specific nature of stopping patterns at each rest area.

WTI documented varied stopping percentages at each rest area, ranging from zero percent to 100 percent of mainline traffic volumes depending on the time period and type of highway facility.³ The WTI-recommended P values are appropriate for rural rest areas with mainline stopping percentages near the 85th percentile. They may not accurately reflect conditions for rest areas with more widely-varying mainline stopping percentages, especially for sites located near urban areas or adjacent to low-volume roadways. Use of WTI-recommended P values at an individual rest area may underestimate or overestimate rest area usage, depending on site-specific deviation from 85th percentile results.

Percentage of Cars/Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods ($D_c\%/D_t\%$)

WTI studied mainline and rest area vehicular composition during daytime (9:00 a.m. to 4:00 p.m.) and nighttime (midnight to 6:00 a.m.) periods. They conducted an analysis at the Divide SB, Emigrant, and Greycliff EB rest areas (defined as control stations) by comparing the mainline percentage of trucks for the entire day to the daytime and nighttime truck percentage.

WTI found that the percentage of trucks during the daytime period was less than the average annual daily mainline truck percentage, while the truck percentage increased significantly during nighttime hours.⁴ WTI’s findings reflect that the percentage of trucks in the traffic stream changes over the course of a day. It is important to account for these changes in traffic composition to adequately serve commercial vehicles during peak periods of use.

WTI Guideline #3 notes it is reasonable to assume the percentage of commercial vehicles during the daytime and nighttime periods is equivalent to 70 percent and 200 percent,

² WTI, page 116.

³ WTI, Table 5-1, page 117, and Table 5-2, page 118.

⁴ WTI, Table 5-5, page 121.

respectively, of the daily commercial vehicle percentage for the mainline served by the rest area. This guideline corresponds roughly to the Emigrant daytime/nighttime ratios, which were the highest ratios of the three control stations WTI studied. Daytime ratios for Divide SB and Greycliff EB were closer to 60 percent, while nighttime ratios for these two sites were closer to 160 percent. It is unknown if truck percentage data for the three control stations is representative of all state-maintained rest areas.

Peak Factor (PF)

The peak factor is defined as the ratio of the average day usage during the five summer months of peak usage compared with the average day usage over the entire year. It is not clear from AASHTO or WTI reports if this ratio refers to characteristics of mainline traffic volumes, or to volumes stopping at a rest area. The WTI report recommends using the AASHTO PF value of 1.8 for calculating usage at all Montana rest areas. Applying the PF value provides a more conservative (i.e., larger) estimation of usage and allows MDT to design rest areas to serve higher summertime demand (compared to lower demand averaged over the year). Although not specified in the WTI report, DOWL HKM assumes WTI used annualized PHVs (i.e., hourly volumes adjusted using MDT seasonal adjustment factors) in order to uniformly apply the PF variable.

Average Dwell Time (VHS)

WTI performed statistical analysis on dwell times by vehicle type, parking duration, daytime/nighttime periods, and daily/weekly variation at the Greycliff Eastbound (EB), Divide Southbound (SB), and Clearwater Junction control stations. Greycliff EB and Divide SB are located adjacent to interstate highways, while Clearwater Junction is located adjacent to a rural principal arterial highway. Table 2.3 lists the average dwell time by vehicle type during the daytime and nighttime at the three control stations WTI studied.

Table 2.3 Average Dwell Time

Location	Highway Type	AADT	Vehicle Type	Average Dwell Time (Minutes)	
				Day	Night
Greycliff EB	Interstate (Higher Volume)	7,830	Cars	11	74
			Trucks	34	188
Divide SB	Interstate (Lower Volume)	3,600	Cars	11	50
			Trucks	38	202
Clearwater Junction	Rural Principal Arterial	2,580	Cars	10	22
			Trucks	25	96

Source: WTI, 2011. Note: Average dwell times are rounded to the nearest minute. Higher volume interstate characteristics were used for rest areas with adjacent 2010/2011 AADT volumes greater than 5,000. AADT volumes reflect sum of both directions of travel.

In some cases, WTI found that average dwell times extended beyond a single peak hour. These longer dwell times indicate vehicles occupy parking spaces before the beginning of the peak hour and/or remain after the end of the peak hour. Accordingly, in WTI's parking stall equation, longer dwell times result in higher calculated demand for parking spaces.

The WTI report noted that the three control stations were “considered typical of other rest areas serving similar highway facilities and locales and thus could be considered generally representative of other rest areas in the state.”⁵ Conversely, the report identified a high standard deviation for dwell times at each rest area (often double or triple the mean dwell time). A high standard deviation indicates high variability in visitation duration at each rest area.

Restroom Users per Vehicle (UV)

WTI studied traffic data and door count data at the Divide SB, Greycliff EB, Bridger, and Emigrant control stations to estimate the number of rest area patrons per vehicle. Results ranged from 1.35 patrons per vehicle at Greycliff EB to 1.78 patrons per vehicle at Emigrant. WTI Guideline #9 notes a rate of 1.5 restroom users per vehicle may be used to estimate the number of patrons using the rest area building.

2.1.3 Parking and Restroom Stall Demand – Health Index Calculations

DOWL HKM initially applied the WTI guidelines outlined in Section 2.1.2 at all state-maintained rest areas to calculate the recommended number of parking and restroom stalls. This effort yielded results that appeared overly conservative, including recommendations for double or triple the number of existing parking stalls based on current year volumes for some locations.

The WTI report relied on average values, 85th percentile data, and site-specific data at only three to four control stations in developing recommendations for statewide rest area usage calculations. Conditions at individual rest areas may vary widely from WTI-recommended values.

In coordination with MDT, DOWL HKM modified the methodology outlined in the WTI report by substituting site-specific door count data (where available) in place of WTI-recommended P values to identify peak-hour visitation at state-maintained rest areas. At MDT’s direction, DOWL HKM also eliminated the PF value. Equation 3 identifies the variables DOWL HKM used to estimate the recommended number of passenger vehicle (car) and commercial vehicle (truck) parking spaces.

Equation 3 Parking Spaces – Health Index Calculations with Door Count Data

$$N_c \text{ or } N_t = \frac{PHV * \frac{\left(\frac{PDD}{2}\right) * UV}{ADT} * Dc\% \text{ or } Dt\% * VHSc \text{ or } VHSt}{UCF}$$

- N_c = Number of parking spaces for cars (passenger vehicles)
- N_t = Number of parking spaces for trucks (commercial vehicles)
- PHV = Peak hour volume (mainline)

⁵ WTI, page 99.

- PDD = Peak daily door count
 UV = Restroom users per vehicle
 ADT = Average daily traffic (mainline)
 D_{c%} = Percentage of cars (passenger vehicles) in the mainline traffic stream during daytime/nighttime periods
 D_{t%} = Percentage of trucks (commercial vehicles) in the mainline traffic stream during daytime/nighttime periods
 VHS_c = Average dwell time for cars (passenger vehicles) in minutes
 VHS_t = Average dwell time for trucks (commercial vehicles) in minutes
 UCF = Unit conversion factor = 60 (60 minutes/hour)

Equation 4 (with WTI-recommended P values and without the PF value) was used to estimate parking needs at rest areas where door count data were not available.

Equation 4 Parking Stalls – Health Index Calculations without Door Count Data

$$N_c \text{ or } N_t = \frac{PHV * P * D_{c\%} \text{ or } D_{t\%} * VHS_c \text{ or } VHS_t}{UCF}$$

Equation 5 identifies the variables used to estimate the recommended number of restroom stalls.

Equation 5 Restroom Stalls – Health Index Calculations

$$T = \frac{UV * D_2}{UHS}$$

- T = Number of restroom stalls
 UV = Restroom users per vehicle
 D₂ = Total vehicles stopping at rest area during peak hour
 UHS = Users per hour per restroom stall, based on a two-minute cycle = 30

The following sections discuss methods to calculate rest area parking and restroom stall usage. Data and calculations for each rest area are provided in Attachment 5.

Average Annual Daily Traffic (AADT), Average Daily Traffic (ADT), and Peak Hour Volume (PHV)
 MDT provided 2010/2011 average annual daily traffic (AADT) data, 2010/2011 average daily traffic (ADT), and 2010/2011 hourly traffic data from short-term count stations on mainline highway segments near each rest area. Attachment 5 provides 2010/2011 AADT/ADT, daytime PHV, and nighttime PHV for each rest area.

Using hourly full detail traffic volume data and/or yearly hourly average traffic volume data from count stations located near each state-maintained rest area, PHVs were identified as the highest hourly mainline volume occurring within the WTI-defined daytime and nighttime periods. Hourly full detail traffic volumes represent data collected on a single day of the year. Traffic volumes recorded on a single day may or may not be representative of typical volumes for similar time periods.

DOWL HKM converted 2010/2011 PHVs collected by MDT at various times of the year to average annual PHVs using MDT seasonal adjustment factors corresponding to volume collection time period (including day of the week and month of the year) and mainline highway type (Attachment 6).

MDT provided annual growth rates for each rest area site based on 20-year historic growth at nearby short-term traffic count sites. These annual growth rates were applied to current traffic volumes to calculate future 2031/2051 AADT/ADT volumes. Application of a static historic growth rate for a 20- to 40-year period is considered highly conservative, and likely produces an overestimate of future demand. Attachment 5 provides growth rates and 2031/2051 AADT/ADT, daytime PHV, and nighttime PHV at each rest area.

In the absence of hourly rest area car and truck stopping volumes, daily and hourly mainline volumes were used to estimate rest area usage characteristics in the daytime and nighttime periods. Relationships between mainline volumes (such as the percentage of trucks in the traffic stream, and the peak hour percent of the daily total) are assumed to apply to rest area usage.

Proportion of Mainline Traffic Stopping at Rest Area (P)

MDT has installed door counters at most state-maintained rest areas that record each time a rest area door opens. This information can be converted to estimate rest area usage as a percentage of mainline traffic. For this technical memorandum, site-specific P values were calculated using door count data provided by MDT to replace WTI-recommended P values. Door count data provides a reasonable estimation of patrons using a rest area building during the course of a day, but may not account for drivers or passengers that do not enter the building, or patrons holding the door for other parties. To improve accuracy of rest area usage calculations for future study, MDT could consider installing door counters at all rest areas and validating door count data.

Daily door counts do not provide information about hourly usage patterns throughout a 24-hour period, the types of vehicles occupying a parking lot, or the length of patron stay. In the absence of site-specific data, mainline volumes are still required to identify hourly breakouts and truck/car percentages.

Equation 6 identifies the variables used to calculate site-specific P values for rest areas using door count data.

Equation 6 Site-specific P Value – Health Index Calculations

$$P = \frac{[(PDD / 2) / UV]}{AADT}$$

- P = Proportion of mainline traffic stopping at rest area
 PDD = Peak daily door count
 2 = Conversion from door count to people
 UV = Users per vehicle (1.5)
 AADT = Average annual daily traffic

Site-specific P values are based on the relationship between peak-day door count data over a one- to two-year period and average annual mainline traffic volumes for a single year. This provides a static estimate, and may not be representative of usage characteristics as traffic volumes change over time.

For comparison purposes, average P values were calculated for rest areas adjacent to interstate highways (P = 0.14) and arterial highways (P = 0.22) using door count data. These values are similar to WTI-recommended 85th percentile P values of 0.16 and 0.25, respectively. Use of average or 85th percentile P values is only recommended where site-specific data are unavailable. For this memorandum, WTI-recommended P values were used at state-maintained rest areas where door count data were not provided by MDT.

In the future, MDT could collect hourly volume and classification data at the entrance ramps of each state-maintained rest area to improve demand calculation accuracy.

Percentage of Cars/Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods
 ($D_c\%/D_t\%$)

MDT supplied average annual daily truck volumes within the overall traffic stream. Using these AADT truck volumes, DOWL HKM calculated trucks as a percentage of mainline traffic. In the absence of site-specific data, WTI Guideline #3 was applied to adjust the percentage of trucks during the daytime and nighttime periods to 70 percent and 200 percent of the daily average, respectively. The percent of passenger vehicles was calculated by subtracting the daily percent of trucks from 100 percent. In the absence of site-specific data, the composition of mainline traffic volumes is assumed to be similar to volumes stopping at rest areas.

Peak Factor (PF)

Use of peak daily door count data for planning purposes eliminates the need to apply the PF value, which is intended to account for average day usage during the five summer months of peak usage. At MDT's direction, the PF value is not used in any calculations for this technical memorandum.

Average Dwell Time (VHS)

In the absence of site-specific data, WTI-recommended dwell times were used from the Greycliff EB, Divide SB, and Clearwater Junction control stations to estimate dwell times at all state-maintained rest areas according to adjacent highway types and volumes. MDT could collect site-specific dwell time data at all state-maintained rest areas to improve demand calculation accuracy.

Restroom Users per Vehicle (UV)

In the absence of site-specific data, the WTI-recommended value of 1.5 users per vehicle was used for the UV factor. MDT could collect site-specific UV data at all state-maintained rest areas to improve demand calculation accuracy.

Summary of Parking Stall Deficiencies

Parking stall deficiencies were calculated as the difference between the current available parking supply noted in the site evaluation forms and anticipated existing and future demand using methods described in Section 2.1.3. ADA parking stalls were not included in the passenger vehicle supply count.

Tables 2.4 and 2.5 list existing (2011) and anticipated future (2031) passenger vehicle and commercial vehicle parking deficiencies/surpluses at each rest area. The listed order varies in each year due to variable growth rates for mainline traffic volumes at each rest area.

Based on this analysis, two state-maintained rest areas are currently unable to meet passenger vehicle parking stall demand, with a deficiency ranging from four stalls to seven stalls. By 2031, four state-maintained rest areas will fail to meet passenger vehicle parking stall demand, with deficiencies ranging from one stall to 12 parking stalls.

Twenty-one state-maintained rest areas are currently unable to meet commercial vehicle parking stall demand, with deficiencies ranging from two stalls to 31 parking stalls. By 2031, 25 state-maintained rest areas will fail to meet commercial vehicle parking stall demand, with deficiencies ranging from one stall to 50 stalls.

Attachment 5 provides 2011 and 2031 parking stall demand calculations for each rest area.

Table 2.4 Passenger Vehicle Parking (2011 and 2031)

State-maintained Rest Areas							
Rest Area (Alphabetical)		Passenger Vehicle Parking Deficiency(-)/ Surplus(+)		Rest Area (In Order of Deficiency/Surplus)		Passenger Vehicle Parking Deficiency(-)/ Surplus(+)	
		2011	2031			2011	2031
1	Anaconda Rest Area	+14	+10	1	Bridger Rest Area	-7	-12
2	Armington Junction Rest Area	+5	+3	2	Bozeman Rest Area	-4	-24
3	Bad Route Rest Area	+29	+26	3	Vista Point Rest Area ⁽¹⁾	+1	-3
4	Bearmouth (East) Rest Area	+10	+7	4	Mosby Rest Area	+2	-1
5	Bearmouth (West) Rest Area	+9	+6	5	Hathaway (West) Rest Area	+4	+2
6	Bozeman Rest Area	-4	-24	6	Jefferson City (South) Rest Area	+4	+3
7	Bridger Rest Area	-7	-12	7	Armington Junction Rest Area	+5	+3
8	Broadus Rest Area	+6	+4	8	Flowing Wells Rest Area	+5	+4
9	Clearwater Junction Rest Area	+14	+8	9	Jefferson City (North) Rest Area	+5	+4
10	Columbus (East) Rest Area	+23	+18	10	Roberts Rest Area	+5	+3
11	Columbus (West) Rest Area	+19	+15	11	Broadus Rest Area	+6	+4
12	Conrad Rest Area	+27	+25	12	Gold Creek (East) Rest Area	+6	+4
13	Culbertson Rest Area	+21	+20	13	Gold Creek (West) Rest Area	+6	+4
14	Custer (East) Rest Area	+9	+8	14	Greycliff (West) Rest Area	+6	+4
15	Custer (West) Rest Area	+13	+12	15	Hathaway (East) Rest Area	+6	+4
16	Dearborn (North) Rest Area	+15	+14	16	Quartz Flats (East) Rest Area	+7	+1
17	Dearborn (South) Rest Area	+16	+15	17	Quartz Flats (West) Rest Area	+7	+1
18	Dena Mora (East) Rest Area	+8	+3	18	Raynolds Pass Rest Area	+7	+5
19	Dena Mora (West) Rest Area	+11	+5	19	Dena Mora (East) Rest Area	+8	+3
20	Divide (North) Rest Area	+11	+9	20	Bearmouth (West) Rest Area	+9	+6
21	Divide (South) Rest Area	+12	+11	21	Custer (East) Rest Area	+9	+8
22	Emigrant Rest Area	+14	+13	22	Greycliff (East) Rest Area	+9	+7
23	Flowing Wells Rest Area	+5	+4	23	Hardin (West) Rest Area	+9	+8
24	Gold Creek (East) Rest Area	+6	+4	24	Sweet Grass Rest Area	+9	+8
25	Gold Creek (West) Rest Area	+6	+4	25	Bearmouth (East) Rest Area	+10	+7
26	Greycliff (East) Rest Area	+9	+7	26	Hysham (East) Rest Area	+10	+8
27	Greycliff (West) Rest Area	+6	+4	27	Hysham (West) Rest Area	+10	+9
28	Hardin (East) Rest Area	+23	+22	28	Dena Mora (West) Rest Area	+11	+5
29	Hardin (West) Rest Area	+9	+8	29	Divide (North) Rest Area	+11	+9
30	Harlowton Rest Area	+15	+11	30	Divide (South) Rest Area	+12	+11
31	Hathaway (East) Rest Area	+6	+4	31	Vandalia Rest Area	+12	+11
32	Hathaway (West) Rest Area	+4	+2	32	Custer (West) Rest Area	+13	+12
33	Hysham (East) Rest Area	+10	+8	33	Anaconda Rest Area	+14	+10
34	Hysham (West) Rest Area	+10	+9	34	Clearwater Junction Rest Area	+14	+8
35	Jefferson City (North) Rest Area	+5	+4	35	Emigrant Rest Area	+14	+13
36	Jefferson City (South) Rest Area	+4	+3	36	Dearborn (North) Rest Area	+15	+14
37	Lima Rest Area	+15	+8	37	Harlowton Rest Area	+15	+11
38	Lost Trail Pass Rest Area	+15	+14	38	Lima Rest Area	+15	+8
39	Mosby Rest Area	+2	-1	39	Lost Trail Pass Rest Area	+15	+14
40	Quartz Flats (East) Rest Area	+7	+1	40	Dearborn (South) Rest Area	+16	+15
41	Quartz Flats (West) Rest Area	+7	+1	41	Teton River (North) Rest Area	+16	+16
42	Raynolds Pass Rest Area	+7	+5	42	Teton River (South) Rest Area	+17	+16

State-maintained Rest Areas							
Rest Area (Alphabetical)		Passenger Vehicle Parking Deficiency(-)/ Surplus(+)		Rest Area (In Order of Deficiency/Surplus)		Passenger Vehicle Parking Deficiency(-)/ Surplus(+)	
		2011	2031			2011	2031
43	Roberts Rest Area	+5	+3	43	Columbus (West) Rest Area	+19	+15
44	Sweet Grass Rest Area	+9	+8	44	Troy Rest Area	+20	+20
45	Teton River (North) Rest Area	+16	+16	45	Culbertson Rest Area	+21	+20
46	Teton River (South) Rest Area	+17	+16	46	Columbus (East) Rest Area	+23	+18
47	Troy Rest Area	+20	+20	47	Hardin (East) Rest Area	+23	+22
48	Vandalia Rest Area	+12	+11	48	Conrad Rest Area	+27	+25
49	Vista Point Rest Area ⁽¹⁾	+1	-3	49	Bad Route Rest Area	+29	+26

Source: DOWL HKM, 2014. Order of deficiency/surplus varies in each year due to variable growth rates for mainline traffic volumes at each rest area.

⁽¹⁾ Site does not have domestic water service. Wastewater service consists of vaulted toilets.

Table 2.5 Commercial Vehicle Parking (2011 and 2031)

State-maintained Rest Areas							
Rest Area (Alphabetical)		Commercial Vehicle Parking Deficiency(-)/ Surplus(+)		Rest Area (In Order of Deficiency/Surplus)		Commercial Vehicle Parking Deficiency(-)/ Surplus(+)	
		2011	2031			2011	2031
1	Anaconda Rest Area	-7	-13	1	Dena Mora (East) Rest Area	-31	-50
2	Armington Junction Rest Area	+8	+7	2	Quartz Flats (East) Rest Area	-29	-44
3	Bad Route Rest Area	-9	-22	3	Dena Mora (West) Rest Area	-21	-34
4	Bearmouth (East) Rest Area	+12	+8	4	Hysham (East) Rest Area	-18	-25
5	Bearmouth (West) Rest Area	+10	+6	5	Bozeman Rest Area	-17	-35
6	Bozeman Rest Area	-17	-35	6	Quartz Flats (West) Rest Area	-17	-26
7	Bridger Rest Area	-2	-4	7	Lima Rest Area	-16	-34
8	Broadus Rest Area	+11	+9	8	Columbus (West) Rest Area	-15	-24
9	Clearwater Junction Rest Area	+11	+9	9	Hysham (West) Rest Area	-12	-16
10	Columbus (East) Rest Area	-11	-19	10	Sweet Grass Rest Area	-12	-16
11	Columbus (West) Rest Area	-15	-24	11	Columbus (East) Rest Area	-11	-19
12	Conrad Rest Area	+5	0	12	Gold Creek (West) Rest Area	-10	-14
13	Culbertson Rest Area	+7	+5	13	Bad Route Rest Area	-9	-22
14	Custer (East) Rest Area	-3	-8	14	Hardin (East) Rest Area	-9	-14
15	Custer (West) Rest Area	+1	-2	15	Gold Creek (East) Rest Area	-8	-11
16	Dearborn (North) Rest Area	+15	+13	16	Anaconda Rest Area	-7	-13
17	Dearborn (South) Rest Area	+17	+16	17	Jefferson City (South) Rest Area	-4	-5
18	Dena Mora (East) Rest Area	-31	-50	18	Custer (East) Rest Area	-3	-8
19	Dena Mora (West) Rest Area	-21	-34	19	Bridger Rest Area	-2	-4
20	Divide (North) Rest Area	0	-3	20	Flowing Wells Rest Area	-2	-2
21	Divide (South) Rest Area	+2	+1	21	Jefferson City (North) Rest Area	-2	-4
22	Emigrant Rest Area	+5	+5	22	Divide (North) Rest Area	0	-3
23	Flowing Wells Rest Area	-2	-2	23	Custer (West) Rest Area	+1	-2
24	Gold Creek (East) Rest Area	-8	-11	24	Divide (South) Rest Area	+2	1
25	Gold Creek (West) Rest Area	-10	-14	25	Hathaway (West) Rest Area	+2	-2

State-maintained Rest Areas							
Rest Area (Alphabetical)		Commercial Vehicle Parking Deficiency(-)/ Surplus(+)		Rest Area (In Order of Deficiency/Surplus)		Commercial Vehicle Parking Deficiency(-)/ Surplus(+)	
		2011	2031			2011	2031
26	Greycliff (East) Rest Area	+23	+18	26	Mosby Rest Area	+2	0
27	Greycliff (West) Rest Area	+12	+8	27	Hathaway (East) Rest Area	+3	-1
28	Hardin (East) Rest Area	-9	-14	28	Teton River (South) Rest Area	+3	+1
29	Hardin (West) Rest Area	+4	+1	29	Hardin (West) Rest Area	+4	+1
30	Harlowton Rest Area	+5	0	30	Lost Trail Pass Rest Area	+4	+4
31	Hathaway (East) Rest Area	+3	-1	31	Roberts Rest Area	+4	+4
32	Hathaway (West) Rest Area	+2	-2	32	Vista Point Rest Area ⁽¹⁾	+4	+4
33	Hysham (East) Rest Area	-18	-25	33	Conrad Rest Area	+5	0
34	Hysham (West) Rest Area	-12	-16	34	Emigrant Rest Area	+5	+5
35	Jefferson City (North) Rest Area	-2	-4	35	Harlowton Rest Area	+5	0
36	Jefferson City (South) Rest Area	-4	-5	36	Teton River (North) Rest Area	+5	+4
37	Lima Rest Area	-16	-34	37	Troy Rest Area	+5	+5
38	Lost Trail Pass Rest Area	+4	+4	38	Culbertson Rest Area	+7	+5
39	Mosby Rest Area	+2	0	39	Raynolds Pass Rest Area	+7	+7
40	Quartz Flats (East) Rest Area	-29	-44	40	Vandalia Rest Area	+7	+7
41	Quartz Flats (West) Rest Area	-17	-26	41	Armington Junction Rest Area	+8	+7
42	Raynolds Pass Rest Area	+7	+7	42	Bearmouth (West) Rest Area	+10	+6
43	Roberts Rest Area	+4	+4	43	Broadus Rest Area	+11	+9
44	Sweet Grass Rest Area	-12	-16	44	Clearwater Junction Rest Area	+11	+9
45	Teton River (North) Rest Area	+5	+4	45	Bearmouth (East) Rest Area	+12	+8
46	Teton River (South) Rest Area	+3	+1	46	Greycliff (West) Rest Area	+12	+8
47	Troy Rest Area	+5	+5	47	Dearborn (North) Rest Area	+15	+13
48	Vandalia Rest Area	+7	+7	48	Dearborn (South) Rest Area	+17	+16
49	Vista Point Rest Area ⁽¹⁾	+4	+4	49	Greycliff (East) Rest Area	+23	+18

Source: DOWL HKM, 2014. Order of deficiency/surplus varies in each year due to variable growth rates for mainline traffic volumes at each rest area.

⁽¹⁾ Site does not have domestic water service. Wastewater service consists of vaulted toilets.

Summary of Restroom Stall Deficiencies

DOWL HKM calculated restroom stall deficiencies as the difference between the current restroom supply noted in the site evaluation forms and the anticipated existing demand or the anticipated future demand.

Table 2.6 lists the total existing (2011) and anticipated future (2031) restroom stall deficiencies/surpluses for men and women at each rest area. The listed order varies in each year due to variable growth rates for mainline traffic volumes at each rest area.

Two state-maintained rest areas are currently unable to meet restroom stall demand, with deficiencies ranging from one stall to six stalls. By 2031, six state-maintained rest areas will fail to meet restroom stall demand, with deficiencies ranging from one stall to seven stalls.

Attachment 5 provides calculated 2011 and 2031 restroom stall demand for each rest area.

Table 2.6 Restroom Stalls (2011 and 2031)

State-maintained Rest Areas							
Rest Area (Alphabetical)		Total Restroom Stall Deficiency(-)/ Surplus(+) (Men and Women)		Rest Area (In Order of Deficiency/Surplus)		Total Restroom Stall Deficiency(-)/ Surplus(+) (Men and Women)	
		2011	2031			2011	2031
1	Anaconda Rest Area	+5	+4	1	Vista Point Rest Area ⁽¹⁾	-6	-7
2	Armington Junction Rest Area	+3	+2	2	Bridger Rest Area	-1	-2
3	Bad Route Rest Area	+3	+2	3	Clearwater Junction Rest Area	0	-2
4	Bearmouth (East) Rest Area	+3	+2	4	Quartz Flats (East) Rest Area	+1	-1
5	Bearmouth (West) Rest Area	+3	+1	5	Broadus Rest Area	+2	+2
6	Bozeman Rest Area	+4	-2	6	Columbus (East) Rest Area	+2	0
7	Bridger Rest Area	-1	-2	7	Columbus (West) Rest Area	+2	+1
8	Broadus Rest Area	+2	+2	8	Flowing Wells Rest Area	+2	+1
9	Clearwater Junction Rest Area	0	-2	9	Gold Creek (East) Rest Area	+2	+1
10	Columbus (East) Rest Area	+2	0	10	Gold Creek (West) Rest Area	+2	+1
11	Columbus (West) Rest Area	+2	+1	11	Greycliff (West) Rest Area	+2	+2
12	Conrad Rest Area	+6	+6	12	Hardin (East) Rest Area	+2	+1
13	Culbertson Rest Area	+3	+2	13	Jefferson City (North) Rest Area	+2	+2
14	Custer (East) Rest Area	+4	+4	14	Jefferson City (South) Rest Area	+2	+1
15	Custer (West) Rest Area	+4	+4	15	Quartz Flats (West) Rest Area	+2	-1
16	Dearborn (North) Rest Area	+6	+6	16	Raynolds Pass Rest Area	+2	+2
17	Dearborn (South) Rest Area	+6	+6	17	Armington Junction Rest Area	+3	+2
18	Dena Mora (East) Rest Area	+3	+1	18	Bad Route Rest Area	+3	+2
19	Dena Mora (West) Rest Area	+3	+1	19	Bearmouth (East) Rest Area	+3	+2
20	Divide (North) Rest Area	+3	+3	20	Bearmouth (West) Rest Area	+3	+1
21	Divide (South) Rest Area	+4	+3	21	Culbertson Rest Area	+3	+2
22	Emigrant Rest Area	+4	+3	22	Dena Mora (East) Rest Area	+3	+1
23	Flowing Wells Rest Area	+2	+1	23	Dena Mora (West) Rest Area	+3	+1
24	Gold Creek (East) Rest Area	+2	+1	24	Divide (North) Rest Area	+3	+3
25	Gold Creek (West) Rest Area	+2	+1	25	Greycliff (East) Rest Area	+3	+3
26	Greycliff (East) Rest Area	+3	+3	26	Lima Rest Area	+3	+1
27	Greycliff (West) Rest Area	+2	+2	27	Roberts Rest Area	+3	+2
28	Hardin (East) Rest Area	+2	+1	28	Vandalia Rest Area	+3	+3
29	Hardin (West) Rest Area	+4	+4	29	Bozeman Rest Area	+4	-2
30	Harlowton Rest Area	+5	+4	30	Custer (East) Rest Area	+4	+4
31	Hathaway (East) Rest Area	+4	+3	31	Custer (West) Rest Area	+4	+4
32	Hathaway (West) Rest Area	+4	+4	32	Divide (South) Rest Area	+4	+3
33	Hysham (East) Rest Area	+6	+5	33	Emigrant Rest Area	+4	+3
34	Hysham (West) Rest Area	+6	+5	34	Hardin (West) Rest Area	+4	+4
35	Jefferson City (North) Rest Area	+2	+2	35	Hathaway (East) Rest Area	+4	+3
36	Jefferson City (South) Rest Area	+2	+1	36	Hathaway (West) Rest Area	+4	+4
37	Lima Rest Area	+3	+1	37	Lost Trail Pass Rest Area	+4	+3
38	Lost Trail Pass Rest Area	+4	+3	38	Teton River (South) Rest Area	+4	+4
39	Mosby Rest Area	+5	+4	39	Anaconda Rest Area	+5	+4
40	Quartz Flats (East) Rest Area	+1	-1	40	Harlowton Rest Area	+5	+4

State-maintained Rest Areas							
Rest Area (Alphabetical)		Total Restroom Stall Deficiency(-)/ Surplus(+) (Men and Women)		Rest Area (In Order of Deficiency/Surplus)		Total Restroom Stall Deficiency(-)/ Surplus(+) (Men and Women)	
		2011	2031			2011	2031
41	Quartz Flats (West) Rest Area	+2	-1	41	Mosby Rest Area	+5	+4
42	Raynolds Pass Rest Area	+2	+2	42	Teton River (North) Rest Area	+5	+4
43	Roberts Rest Area	+3	+2	43	Conrad Rest Area	+6	+6
44	Sweet Grass Rest Area	+6	+5	44	Dearborn (North) Rest Area	+6	+6
45	Teton River (North) Rest Area	+5	+4	45	Dearborn (South) Rest Area	+6	+6
46	Teton River (South) Rest Area	+4	+4	46	Hysham (East) Rest Area	+6	+5
47	Troy Rest Area	+6	+5	47	Hysham (West) Rest Area	+6	+5
48	Vandalia Rest Area	+3	+3	48	Sweet Grass Rest Area	+6	+5
49	Vista Point Rest Area ⁽¹⁾	-6	-7	49	Troy Rest Area	+6	+5

Source: DOWL HKM, 2014. Order of deficiency/surplus varies in each year due to variable growth rates for mainline traffic volumes at each rest area.

⁽¹⁾ Site does not have domestic water service. Wastewater service consists of vaulted toilets.

Average Day and Average Summer Day Comparison

For comparison purposes, DOWL HKM calculated average annual daily and average summer daily demand using door count data without applying the PF value. This provides an estimation of average daily rest area usage for the year and average summer daily rest area usage. Results of the average annual day and average summer day methods are included in Attachments 5 and 7. These results provide a basis for comparison to identify appropriate parking accommodations at rest areas. The health index scoring values for parking and restroom stall demand are based on the highest recorded daily door count (peak day) of the year (where available) or WTI-recommended P values.

2.1.4 Water Demand

Water system data was collected and reviewed from a variety of sources for each rest area site. Health index scoring elements for water systems are discussed below.

Municipal System

Rest areas with water service provided from a municipal water source received the full allocation of points for the health index water element score and were not evaluated with any further criteria. The following state-maintained rest areas are connected to municipal water: Bozeman, Conrad, Culbertson, Harlowton, Lima, Sweet Grass, and Teton River (North and South). All remaining state-maintained rest areas are served by on-site wells, with the exception of Lost Trail Pass which is served by a spring. Rest areas served by on-site water systems were scored according to categories described in the following sections with a total of 25 possible points.

Source Capability to Meet Peak Daily Demand

Per Circular DEQ-3, the water source capacity at each rest area must equal or exceed the design maximum day demand. Equation 7 identifies the variables used for estimating the peak daily domestic water usage.

Equation 7 Peak Daily Domestic Water Usage

$$PDDW = \frac{D_2 \times UV \times G}{UCF} + RO$$

PDDW = Peak daily domestic water demand in gallons per minute (gpm)

D_2 = Total vehicles stopping at rest area during peak hour (based on peak daily door counts, where available)

UV = Restroom users per vehicle (1.5)

G = Water usage per restroom user (1.5 gallons)

RO = Reverse osmosis treatment unit reject water (gpm) (where applicable)

UCF = Unit conversion factor = 60 (60 minutes per hour)

MDT has installed door counters at several rest areas to estimate the number of visitors. Additionally, many sites have also been equipped with water meters. Water system design should be based on door count and water meter data, if available.

Water usage per restroom user (variable G) varies among rest areas. This value is specific to each site due to many factors, such as whether the site is equipped with low-flow versus higher flow plumbing fixtures. Door count data was used in conjunction with water meter data to examine actual water usage per user values at several rest areas. Results indicate that 1.5 gallons per restroom user is a slightly conservative value appropriate for planning-level purposes. This value is also consistent with findings from the WTI report.

In addition to domestic usage, water demand was also estimated for irrigation and RO treatment units, where applicable. Irrigation demand is estimated based on consumptive use estimates for plants within corresponding irrigation climatic areas per the Montana Irrigation Guide. Several assumptions were made regarding irrigation cycle time, delivery period for the irrigation volume, and system efficiencies to determine the estimated irrigation flow rate. An estimated irrigation area was determined using aerial photography. Although irrigation water is a component of the overall water demand, irrigation can be programmed to occur overnight or in the early morning hours such that timing of irrigation is offset from the peak daily domestic demand which likely occurs during the day. Estimated irrigation demands are provided for informational purposes only, and are not included in the overall peak daily demand calculation shown in Equation 7.

The RO treatment process generates additional demand on the water system, as a significant percentage of the system inflow is lost as part of the reject stream. A conservative RO system treatment water recovery rate of 50 percent was utilized to estimate the RO treatment unit

demand. For every two gallons of water sent to the RO system, one gallon is available for use and the second gallon is concentrated reject water sent to the wastewater system. Typically, only water to sinks and drinking fountains is routed through the RO treatment system. Demand for sinks and drinking fountains is estimated as a percentage of the total peak instantaneous demand discussed in later sections.

The total estimated peak daily demand is the sum of domestic usage and RO treatment unit water (where applicable). Detailed water demand calculations are provided in Attachment 8.

Source capacity was determined by well log information downloaded from the GWIC database or the best available data on existing well pumping rates. Pumping rate information was compared against the allowable pumping rate determined from queried water rights data. If water rights were not found within the DNRC database, an allowable pumping rate of 35 gpm was assumed as specified for exempt wells per DNRC. The estimated source capacity was determined to be the smaller flow rate of the exempt well pumping rate or allowable pumping rate per the water right and/or well log report.

Health index scoring for this category was assigned based on the adequacy of the source to meet calculated existing and future peak daily demand. Of the 41 evaluated on-site water systems, 28 are categorized as excellent, one as fair, and 12 received a poor designation. The poor designation indicates these sites are currently experiencing water quantity issues with domestic or irrigation flow rates.

Storage Capability to Meet Peak Instantaneous Demand

In addition to peak daily demand, water systems should also be evaluated for their capability to meet peak instantaneous demand. Peak instantaneous demand is determined from the fixture unit method, which involves determining the number of toilets, sinks, and drinking fountains in a rest area and assigning a fixture value to each. The summation of fixture units per facility is used to determine a peak instantaneous flow using what is called a Hunter curve. The premise of the Hunter curve is the more fixtures in a building, the less likely they will all be operating simultaneously. The peak instantaneous demand is higher than the peak daily demand.

For this memorandum, peak instantaneous demand was calculated based on the number of recommended restroom stalls per the method described in Section 2.1.3. Peak instantaneous demand would be reduced at several rest areas if MDT limits restroom stalls to a specified maximum number. The final number of restroom stalls should be addressed during the Phase I design process. Each stall is assigned a fixture unit value of five, which represents the fixture unit value for one water closet. In addition to water closets, each rest area is also assumed to include four sinks (two per women's and two per men's restrooms), and two total drinking fountains. The total fixture unit value is applied to the Hunter curve to determine the peak domestic instantaneous demand.

The total estimated peak instantaneous demand is the sum of domestic usage and RO treatment unit water (where applicable). Detailed water demand calculations are provided in Attachment 8.

The source pumping rate in combination with the system’s existing storage capacity is used to estimate the water system’s capability to meet peak instantaneous demand. All rest areas with on-site water systems include one or more hydropneumatic tanks as part of the water system. Hydropneumatic tanks are pressure tanks that are used to minimize pump cycling and store water at a desired delivery pressure. They can also be used to meet short-term peak demands in excess of the well or supply pump capacity.

Equation 8 identifies the variables used for estimating the additional volume required to meet peak instantaneous demand. Typically, hydropneumatic tank systems are sized based upon the pump capacity and the maximum number of pump on/off cycles per hour recommended by the manufacturer of a typical submersible pump. On/off cycles are minimized to maintain sufficient cooling of submersible pump motors. Given the typical pump rate for the rest areas was assumed as the maximum pump rate for an exempt well, and the number of pump cycles per hour was fixed, the storage required would be the same for every rest area. Therefore, an additional criterion is necessary to estimate the potential storage required to meet a sustained peak demand. This key criterion is the duration of the peak demand.

Design guidelines for sizing hydropneumatic water system pumps and tanks are generally limited to the pump size and cycling frequency, as noted above. A seven-minute duration for the peak instantaneous demand at each rest area was assumed for purposes of this report and evaluation of potential hydropneumatic storage volume requirements. The pressure tank drawdown factor accounts for the unusable storage volume within the tank and depends on the desired operational pressure range of the system. Existing storage volumes were determined for each rest area from maintenance personnel questionnaire responses.

Equation 8 Additional Volume Required to Satisfy Peak Instantaneous Demand

$$V = \left[\frac{(Q_{peak} - Q_{pump}) \times D_{peak}}{DF} \right] - S$$

V = Additional Volume (gallons)

Q_{peak} = Peak instantaneous demand (gpm)

Q_{pump} = Source pumping rate (gpm)

D_{peak} = Duration of peak instantaneous demand (7 minutes)

DF = Pressure tank drawdown factor between 40 and 60 pounds per square inch (psi) (0.268)

S = Existing storage volume (gallons)

Health index scoring for this category was assigned based on the adequacy of the source in combination with existing storage tanks to meet the calculated existing and future peak instantaneous demand. The number of additional tanks needed was also factored into the scoring criteria. A pressure tank volume of 211 gallons per tank was assumed for each

additional pressure tank to be added. This tank volume was selected based on manufacturer data for a 30-inch diameter tank approximately six feet tall. This tank size should be small enough to fit through a standard door opening. For the purposes of this report, it is assumed that storage can be reasonably accommodated with pressure tanks when five or fewer additional pressure tanks are needed to meet peak instantaneous demand. If sites will require more than five additional pressure tanks, the use of a storage tank may be a better option compared to multiple pressure tanks. The storage tank option would result in a more complex system given the need to pump into the tank from the well based upon water level in the tank and depending on topography, re-pump the water from the tank to meet demand. Two separate pump systems would potentially be included. The use of pressure tanks versus storage tanks at rest areas should be further considered during the Phase I design process and will ultimately be based on several factors including cost and site limitations.

Of the 41 evaluated on-site water systems, 14 are categorized as excellent, four as good, 22 as fair, and one as poor. The results of this assessment indicate many rest areas are inadequate with respect to on-site storage volume, although storage can be reasonably accommodated at most of these sites through installation of additional pressure tanks. Results of the storage evaluation will improve if the number of restroom stalls is limited to a desired maximum number.

Operation and Maintenance

Water system operation and maintenance concerns for each rest area were indicated on maintenance personnel questionnaire responses. Health index scoring was assigned based on severity and recurrence interval of specific concerns. The majority of rest areas received an excellent score for operation and maintenance, suggesting the on-site water systems are relatively easy to maintain and operate. Problems with silt plugging the cartridge filters and sand in the plumbing were commonly associated with these systems. Additionally, one system experiences occasional operational issues with its ultraviolet (UV) disinfection system and servicing of its iron removal treatment system.

Backflow Prevention

If the rest area domestic water source also provides water for irrigation, it is recommended that a backflow preventer be installed on the irrigation system line as it exits the rest area facility. A backflow preventer provides a physical barrier to backflow which can occur in the event that a water system experiences pressure loss. If pressure is lost and no backflow preventer exists on the irrigation system water line, there is the potential for contaminants such as fertilizer and pet waste to be drawn into the domestic water system. The presence of backflow prevention was indicated on maintenance personnel questionnaire responses. Of the 41 evaluated on-site water systems, 37 facilities currently include backflow prevention or do not have common water sources for domestic and irrigation purposes. Four sites with common domestic and irrigation sources currently do not include backflow prevention.

Source Quality (Transient Non-community Standards)

The water systems serving the rest areas are classified as transient non-community water supplies, meaning they serve 25 or more persons per day but do not regularly serve the same persons for at least six months a year. Montana regulations require transient non-community water supplies to monitor for microbiological quality and for nitrates and nitrites.

Samples for coliform bacteria must be collected on a monthly or quarterly basis depending on authorization from DEQ. If more than one sample per month or quarter is total coliform-positive, a violation of the maximum contaminant level (MCL) occurs and public notice must be given in addition to increased sampling the following month. If a routine or repeat sample is also *E. coli* positive, an MCL violation is issued, requiring action including issuance of a boil water order, public notice requirements, corrective action, and increased sampling the following month. Disinfection can be used by groundwater systems to kill harmful microbiological organisms if the source is contaminated or at risk of contamination. Currently, 12 rest areas use chlorination for disinfection and one site uses ultraviolet (UV) light. Disinfection methods for each rest area in addition to other water quality parameters are summarized in Attachment 8. Disinfection requirements due to well construction details are noted. Per DEQ requirements, if wells have unperforated casing or static water depths of 25 feet or less, disinfection is required. There are several instances where disinfection is not required per well construction details, although it is currently being provided. These sites may have had a history of coliform violations or contamination problems due to older piping and plumbing fixtures.

In addition to coliform bacteria, all transient non-community water systems must sample annually for nitrates and nitrites. The MCL for nitrate is 10 mg/L and the MCL for nitrite is 1 mg/L. An MCL violation occurs when an initial sample is over the MCL and the average of the initial and repeat sample also exceeds the MCL. If a system cannot comply with the MCL requirements for nitrate or nitrite, treatment may be required. Reverse osmosis is one of the best available technologies for treatment of nitrates and nitrites. Currently, nine rest areas use RO for treatment.

The DEQ Public Water Supply System online database was queried to obtain water quality sampling records pertaining to each rest area site. The number of MCL violations for total coliform and nitrates/nitrites within the past five years was determined. Additionally, Circular DEQ-3 maintains standards for well construction details that may influence whether a source needs to provide disinfection. Static water level and unperforated casing depths were determined from the GWIC well log reports and compared against DEQ standards.

Water quality monitoring is not required for rest areas that are served by municipal water systems unless the rest area is not equipped with a water meter from the municipality. If a municipal water meter is not installed, MDT must complete sampling as specified for transient non-community systems.

Health index scoring for source quality as it applies to Circular DEQ-3 and transient non-community water systems was assigned based on the number of MCL violations for coliform

bacteria and nitrates/nitrites within the past five years, whether the water systems currently provide treatment or disinfection, and an assessment of well construction details. Of the 41 evaluated on-site water systems, 14 facilities received an excellent score, 14 received a good score, 12 received a fair score, and one received a poor score.

Source Quality (Primary and Secondary Standards)

Although not required for transient non-community water supplies, MDT has conducted recent water quality monitoring at the majority of rest area sites for several drinking water contaminants listed under the national primary and secondary drinking water regulations. Primary drinking water standards are enforceable maximum allowable levels while secondary standards are non-enforceable standards. Table 2.7 lists the primary and secondary contaminants that were monitored at the majority of rest area sites in addition to their corresponding MCL. The presence of primary contaminants in drinking water is a health concern primarily due to their potential to cause cancer when consumed over long periods of time. Secondary contaminants primarily affect aesthetic qualities of the drinking water such as taste, odor, and color.

Table 2.7 Monitored Primary and Secondary Drinking Water Contaminants

Drinking Water Standard	Contaminant	MCL (mg/L)
Primary	Arsenic	0.010
	Lead	0.015
	Nitrate	10
	Nitrite	1
Secondary	Chloride	250
	Iron	0.3
	pH	6.5-8.5
	Sulfate	250
	Total Dissolved Solids	500

Source: EPA, 2014.

Results from primary and secondary constituent monitoring are summarized in Attachment 8 for informational purposes only and are not included in the health index scoring. MDT will evaluate the risk and need for treatment on a case-by-case basis. MDT assumes rest areas on municipal systems meet all water quality requirements of the municipal system.

Remaining Service Life

The year of water system construction and year of water system rehabilitation or replacement for each rest area water system was determined from maintenance personnel questionnaire responses. A design life of 20 years was assumed for water facilities. Remaining service life was calculated as the difference between the design life and the year of rehabilitation or replacement. Several rest area water systems have not been rehabilitated or replaced since the

date of original construction. Of the 41 evaluated on-site water systems, 21 sites have exceeded or are within five years of exceeding their design life.

Summary of Water System Health Index Scoring

Table 2.8 presents health index scores for all state-maintained rest areas by alphabetical rest area listing and lowest to highest score for the water element category. Attachment 8 provides detailed water system calculations and data used to assign health index scoring.

Table 2.8 Water System Health Index Scoring Summary

State-maintained Rest Areas					
Rest Area (Alphabetical)		Water System Health Index Score	Rest Area (In Order of Lowest to Highest Score)		Water System Health Index Score
1	Anaconda Rest Area	15.67	1	Vista Point Rest Area ⁽¹⁾	0.00
2	Armington Junction Rest Area	10.67	2	Gold Creek (West) Rest Area	8.00
3	Bad Route Rest Area	16.67	3	Raynolds Pass Rest Area	8.00
4	Bearmouth (East) Rest Area ⁽²⁾	25.00	4	Vandalia Rest Area	9.00
5	Bearmouth (West) Rest Area ⁽²⁾	25.00	5	Gold Creek (East) Rest Area	9.67
6	Bozeman Rest Area	25.00	6	Armington Junction Rest Area	10.67
7	Bridger Rest Area	14.00	7	Roberts Rest Area	10.67
8	Broadus Rest Area	20.00	8	Hysham (East) Rest Area	12.33
9	Clearwater Junction Rest Area	15.67	9	Hysham (West) Rest Area	12.33
10	Columbus (East) Rest Area	19.00	10	Hathaway (East) Rest Area	13.33
11	Columbus (West) Rest Area	19.00	11	Bridger Rest Area	14.00
12	Conrad Rest Area	25.00	12	Emigrant Rest Area	14.00
13	Culbertson Rest Area	25.00	13	Quartz Flats (West) Rest Area	15.33
14	Custer (East) Rest Area	17.33	14	Anaconda Rest Area	15.67
15	Custer (West) Rest Area	20.00	15	Clearwater Junction Rest Area	15.67
16	Dearborn (North) Rest Area	22.33	16	Hardin (East) Rest Area	15.67
17	Dearborn (South) Rest Area	25.00	17	Hardin (West) Rest Area	15.67
18	Dena Mora (East) Rest Area	17.00	18	Lost Trail Pass Rest Area	16.67
19	Dena Mora (West) Rest Area	18.67	19	Bad Route Rest Area	16.67
20	Divide (North) Rest Area	18.33	20	Dena Mora (East) Rest Area	17.00
21	Divide (South) Rest Area	20.00	21	Hathaway (West) Rest Area	17.33
22	Emigrant Rest Area	14.00	22	Mosby Rest Area	17.33
23	Flowing Wells Rest Area	19.00	23	Custer (East) Rest Area	17.33
24	Gold Creek (East) Rest Area	9.67	24	Troy Rest Area	17.33
25	Gold Creek (West) Rest Area	8.00	25	Divide (North) Rest Area	18.33
26	Greycliff (East) Rest Area ⁽²⁾	25.00	26	Jefferson City (North) Rest Area	18.33
27	Greycliff (West) Rest Area ⁽²⁾	25.00	27	Dena Mora (West) Rest Area	18.67
28	Hardin (East) Rest Area	15.67	28	Columbus (East) Rest Area	19.00
29	Hardin (West) Rest Area	15.67	29	Columbus (West) Rest Area	19.00
30	Harlowton Rest Area	25.00	30	Flowing Wells Rest Area	19.00
31	Hathaway (East) Rest Area	13.33	31	Broadus Rest Area	20.00
32	Hathaway (West) Rest Area	17.33	32	Custer (West) Rest Area	20.00
33	Hysham (East) Rest Area	12.33	33	Divide (South) Rest Area	20.00
34	Hysham (West) Rest Area	12.33	34	Jefferson City (South) Rest Area	20.00
35	Jefferson City (North) Rest Area	18.33	35	Quartz Flats (East) Rest Area	20.33

State-maintained Rest Areas					
Rest Area (Alphabetical)		Water System Health Index Score	Rest Area (In Order of Lowest to Highest Score)		Water System Health Index Score
36	Jefferson City (South) Rest Area	20.00	36	Dearborn (North) Rest Area	22.33
37	Lima Rest Area	25.00	37	Bearmouth (East) Rest Area ⁽²⁾	25.00
38	Lost Trail Pass Rest Area	16.67	38	Bearmouth (West) Rest Area ⁽²⁾	25.00
39	Mosby Rest Area	17.33	39	Bozeman Rest Area	25.00
40	Quartz Flats (East) Rest Area	20.33	40	Conrad Rest Area	25.00
41	Quartz Flats (West) Rest Area	15.33	41	Culbertson Rest Area	25.00
42	Raynolds Pass Rest Area	8.00	42	Dearborn (South) Rest Area	25.00
43	Roberts Rest Area	10.67	43	Greycliff (East) Rest Area ⁽²⁾	25.00
44	Sweet Grass Rest Area	25.00	44	Greycliff (West) Rest Area ⁽²⁾	25.00
45	Teton River (North) Rest Area	25.00	45	Harlowton Rest Area	25.00
46	Teton River (South) Rest Area	25.00	46	Lima Rest Area	25.00
47	Troy Rest Area	17.33	47	Sweet Grass Rest Area	25.00
48	Vandalia Rest Area	9.00	48	Teton River (North) Rest Area	25.00
49	Vista Point Rest Area ⁽¹⁾	0.00	49	Teton River (South) Rest Area	25.00

Source: DOWL HKM, 2014. ⁽¹⁾ Site does not have domestic water service. All categories are assigned a “poor” value.

⁽²⁾ Site is currently under construction. All categories are assigned an “excellent” value.

2.1.5 Wastewater Demand

DOWL HKM reviewed wastewater system data from a variety of sources for each rest area site. Health index scoring elements for wastewater systems are discussed below.

Municipal System

Rest areas with a wastewater system connected to a municipal collection system received the full allocation of points for the health index wastewater element and were not evaluated with any further criteria. The following state-maintained rest areas are connected to municipal wastewater: Bozeman, Conrad, Culbertson, Harlowton, and Sweet Grass. All remaining state-maintained rest areas are served by on-site wastewater systems. Rest areas served by on-site wastewater systems were scored according to categories described in the following sections with a total of 25 possible points.

Treatment System

On-site wastewater treatment systems at rest areas generally consist of a septic tank and soil absorption drainfield. Wastewater may be delivered to the drainfield by gravity or through a pump station allowing for more even dispersal of effluent. Several rest area sites have recently been equipped with advanced wastewater treatment units, which provide an additional level of treatment before disposal to the drainfield.

Health index scoring for the treatment system category is based on the level of treatment currently provided at the rest area. Of the 44 evaluated on-site wastewater treatment systems, 10 sites currently provide advanced treatment, 13 sites utilize pressure dosed drainfields, 19

sites utilize gravity fed drainfields, one site has a seepage pit, and one site is served with vaulted toilets and does not provide wastewater treatment.

Wastewater Design Flow

Equations 9 and 10 identify the variables used for estimating wastewater system design flow as part of this planning study. Equation 9 was used to estimate wastewater flow if door count information was unavailable and Equation 10 was used to estimate wastewater flow when door count data was provided. Wastewater system design should be based on door count and water meter data, if available.

Equation 9 Wastewater System Design Flow without Door Count Data

$$WDF = (AADT \times P \times UV \times G) + RO$$

- WDF = Wastewater design flow in gallons per day (gpd)
- AADT = Average annual daily traffic
- P = Proportion of mainline traffic stopping at rest area
- UV = Restroom users per vehicle (1.5)
- G = Water usage per restroom user (1.5 gallons)
- RO = RO treatment unit reject water (gpd) (where applicable)

Equation 10 Wastewater System Design Flow with Door Count Data

$$WDF = (PDP \times G) + RO$$

- WDF = Wastewater design flow in gallons per day (gpd)
- PDP = Peak Daily People (based on door count data)
- G = Water Usage per Restroom User (1.5 gallons)
- RO = RO Treatment Unit Reject Water (gpd) (where applicable)

The RO treatment process generates some amount of waste reject water that will ultimately end up in the wastewater treatment system. RO treatment reject water was estimated as 50 percent of the RO treatment unit demand. Typically, only water to the sinks and drinking fountains is routed through the RO treatment system. Demand for the sinks and drinking fountains is estimated as 35 percent of the total wastewater system demand.

A DEQ discharge permit is not required for wastewater systems discharging less than 5,000 gpd. While the actual analysis and design of the disposal system would be the same, a system over 5,000 gpd may require more site-specific and detailed groundwater information and would require permit and renewal fees. Health index scoring for this category was assigned based on whether the wastewater design flow exceeds 5,000 gpd. One rest area currently has

wastewater design flows greater than 5,000 gpd. Two rest areas are anticipated to exceed 5,000 gpd in 2031 and five rest areas are anticipated to exceed 5,000 gpd in 2051.

Operation and Maintenance

Wastewater system operation and maintenance concerns for each rest area were indicated on maintenance personnel questionnaire responses. Health index scoring was assigned based on severity and recurrence interval of specific concerns. The majority of rest areas received an excellent score for operation and maintenance. Frequent septic tank pumping is needed at some of the rest areas due to high usage. Other concerns include floats on the dosing system, frequent replacement of pumps within the dosing system, occasional saturation of drainfields due to irrigation ditches, and power outages.

Site Constraints

Using the calculated wastewater design flow in conjunction with NRCS soils data, an approximate drainfield size was calculated for each rest area under existing and future demand conditions. The drainfield calculations take into account a 50 percent reduction in drainfield size assuming the sites will utilize an advanced wastewater treatment system. Assumptions were made for lateral length, trench width, and spacing between trenches. All dimension assumptions meet standards per Circular DEQ-4.

An approximate right-of-way boundary for each rest area was determined using aerial photography and cadastral information obtained from NRIS. The initial right-of-way area was reduced by 50 percent to account for parking areas, ramps, buildings, and sidewalks. The reduced area represents potential available space where a future wastewater treatment system and drainfield could reside. The ratio of required drainfield area to available area was calculated for each rest area. The higher the ratio, the more potential exists for site constraints which may not allow for appropriately-sized drainfields to be accommodated at the current site.

Characteristics such as ground slope, distance to floodplain boundaries, distance to wells, or proximity to wetlands were not considered in the site constraint analysis. Additionally, drainfield size and location ultimately depends on site-specific field data and soil information.

Health index scoring for site constraints was assigned based on the ratio of calculated drainfield area to available area. Of the 44 evaluated on-site wastewater systems, 32 received an excellent score, five received a good score, four received a fair score, and three received a poor score. A poor designation does not necessarily mean the site cannot accommodate the wastewater system, but indicates it may potentially be more difficult.

Remaining Service Life

The year of wastewater treatment system construction and year of rehabilitation or replacement was determined from maintenance personnel questionnaire responses. A design life of 20 years was assumed for wastewater facilities. Remaining service life was calculated as the difference between the design life and the year of rehabilitation or replacement. Several

rest area wastewater systems have not been rehabilitated or replaced since the date of original construction. Of the 44 evaluated on-site wastewater systems, 22 sites have exceeded or are within five years of exceeding their design life.

Summary of Wastewater System Health Index Scoring

Table 2.9 presents health index scores for all state-maintained rest areas by alphabetical rest area listing and lowest to highest score for the wastewater element category. Attachment 9 provides detailed wastewater system calculations and data used to assign health index scoring.

Table 2.9 Wastewater System Health Index Scoring Summary

State-maintained Rest Areas					
Rest Area (Alphabetical)		Wastewater System Health Index Score	Rest Area (In Order of Lowest to Highest Score)		Wastewater System Health Index Score
1	Anaconda Rest Area	23.00	1	Vista Point Rest Area ⁽¹⁾	0.00
2	Armington Junction Rest Area	20.67	2	Quartz Flats (East) Rest Area	3.33
3	Bad Route Rest Area	18.33	3	Quartz Flats (West) Rest Area	3.33
4	Bearmouth (East) Rest Area ⁽²⁾	25.00	4	Bridger Rest Area	8.33
5	Bearmouth (West) Rest Area ⁽²⁾	25.00	5	Emigrant Rest Area	12.33
6	Bozeman Rest Area	25.00	6	Roberts Rest Area	12.33
7	Bridger Rest Area	8.33	7	Vandalia Rest Area	13.67
8	Broadus Rest Area	23.67	8	Dena Mora (West) Rest Area	15.00
9	Clearwater Junction Rest Area	15.67	9	Lima Rest Area	15.00
10	Columbus (East) Rest Area	16.33	10	Raynolds Pass Rest Area	15.00
11	Columbus (West) Rest Area	17.67	11	Clearwater Junction Rest Area	15.67
12	Conrad Rest Area	25.00	12	Troy Rest Area	15.67
13	Culbertson Rest Area	25.00	13	Columbus (East) Rest Area	16.33
14	Custer (East) Rest Area	16.33	14	Custer (East) Rest Area	16.33
15	Custer (West) Rest Area	16.33	15	Custer (West) Rest Area	16.33
16	Dearborn (North) Rest Area	25.00	16	Divide (North) Rest Area	16.33
17	Dearborn (South) Rest Area	25.00	17	Divide (South) Rest Area	16.33
18	Dena Mora (East) Rest Area	25.00	18	Gold Creek (West) Rest Area	16.33
19	Dena Mora (West) Rest Area	15.00	19	Jefferson City (North) Rest Area	16.33
20	Divide (North) Rest Area	16.33	20	Jefferson City (South) Rest Area	16.33
21	Divide (South) Rest Area	16.33	21	Columbus (West) Rest Area	17.67
22	Emigrant Rest Area	12.33	22	Gold Creek (East) Rest Area	17.67
23	Flowing Wells Rest Area	18.33	23	Hathaway (East) Rest Area	17.67
24	Gold Creek (East) Rest Area	17.67	24	Hathaway (West) Rest Area	17.67
25	Gold Creek (West) Rest Area	16.33	25	Lost Trail Pass Rest Area	17.67
26	Greycliff (East) Rest Area ⁽²⁾	25.00	26	Bad Route Rest Area	18.33
27	Greycliff (West) Rest Area ⁽²⁾	25.00	27	Flowing Wells Rest Area	18.33
28	Hardin (East) Rest Area	22.33	28	Hysham (West) Rest Area	19.67
29	Hardin (West) Rest Area	22.33	29	Armington Junction Rest Area	20.67
30	Harlowton Rest Area	25.00	30	Mosby Rest Area	21.67
31	Hathaway (East) Rest Area	17.67	31	Hardin (East) Rest Area	22.33
32	Hathaway (West) Rest Area	17.67	32	Hardin (West) Rest Area	22.33
33	Hysham (East) Rest Area	22.67	33	Teton River (North) Rest Area	22.33

State-maintained Rest Areas					
Rest Area (Alphabetical)		Wastewater System Health Index Score	Rest Area (In Order of Lowest to Highest Score)		Wastewater System Health Index Score
34	Hysham (West) Rest Area	19.67	34	Teton River (South) Rest Area	22.33
35	Jefferson City (North) Rest Area	16.33	35	Hysham (East) Rest Area	22.67
36	Jefferson City (South) Rest Area	16.33	36	Anaconda Rest Area	23.00
37	Lima Rest Area	15.00	37	Broadus Rest Area	23.67
38	Lost Trail Pass Rest Area	17.67	38	Bearmouth (East) Rest Area ⁽²⁾	25.00
39	Mosby Rest Area	21.67	39	Bearmouth (West) Rest Area ⁽²⁾	25.00
40	Quartz Flats (East) Rest Area	3.33	40	Bozeman Rest Area	25.00
41	Quartz Flats (West) Rest Area	3.33	41	Conrad Rest Area	25.00
42	Raynolds Pass Rest Area	15.00	42	Culbertson Rest Area	25.00
43	Roberts Rest Area	12.33	43	Dearborn (North) Rest Area	25.00
44	Sweet Grass Rest Area	25.00	44	Dearborn (South) Rest Area	25.00
45	Teton River (North) Rest Area	22.33	45	Dena Mora (East) Rest Area	25.00
46	Teton River (South) Rest Area	22.33	46	Greycliff (East) Rest Area ⁽²⁾	25.00
47	Troy Rest Area	15.67	47	Greycliff (West) Rest Area ⁽²⁾	25.00
48	Vandalia Rest Area	13.67	48	Harlowton Rest Area	25.00
49	Vista Point Rest Area ⁽¹⁾	0.00	49	Sweet Grass Rest Area	25.00

Source: DOWL HKM, 2014. ⁽¹⁾ Wastewater service consists of vaulted toilets. All categories are assigned a “poor” value.

⁽²⁾ Site is currently under construction. All categories are assigned an “excellent” value.

2.2 Scoring Summary

Table 2.10 presents health index scores representing the sum of parking, site, structure, water, wastewater, and amenities scores. Attachment 10 provides detailed scoring for each rest area. Attachment 11 provides summary sheets for each facility.

Table 2.10 Health Index Scoring Summary

State-maintained Rest Areas					
Rest Area (Alphabetical)		Health Index Score	Rest Area (In Order of Lowest to Highest Score)		Health Index Score
1	Anaconda Rest Area	75.00	1	Vista Point Rest Area ⁽¹⁾	24.00
2	Armington Junction Rest Area	69.67	2	Bridger Rest Area	41.67
3	Bad Route Rest Area	65.00	3	Quartz Flats (West) Rest Area	48.33
4	Bearmouth (East) Rest Area	100.00	4	Gold Creek (West) Rest Area	48.67
5	Bearmouth (West) Rest Area	100.00	5	Gold Creek (East) Rest Area	52.33
6	Bozeman Rest Area	81.67	6	Quartz Flats (East) Rest Area	52.33
7	Bridger Rest Area	41.67	7	Raynolds Pass Rest Area	58.00
8	Broadus Rest Area	82.33	8	Vandalia Rest Area	59.00
9	Clearwater Junction Rest Area	72.33	9	Roberts Rest Area	60.00
10	Columbus (East) Rest Area	63.33	10	Hysham (West) Rest Area	61.67
11	Columbus (West) Rest Area	64.67	11	Custer (East) Rest Area	63.00
12	Conrad Rest Area	100.00	12	Jefferson City (North) Rest Area	63.33
13	Culbertson Rest Area	89.00	13	Columbus (East) Rest Area	63.33
14	Custer (East) Rest Area	63.00	14	Hathaway (East) Rest Area	63.67

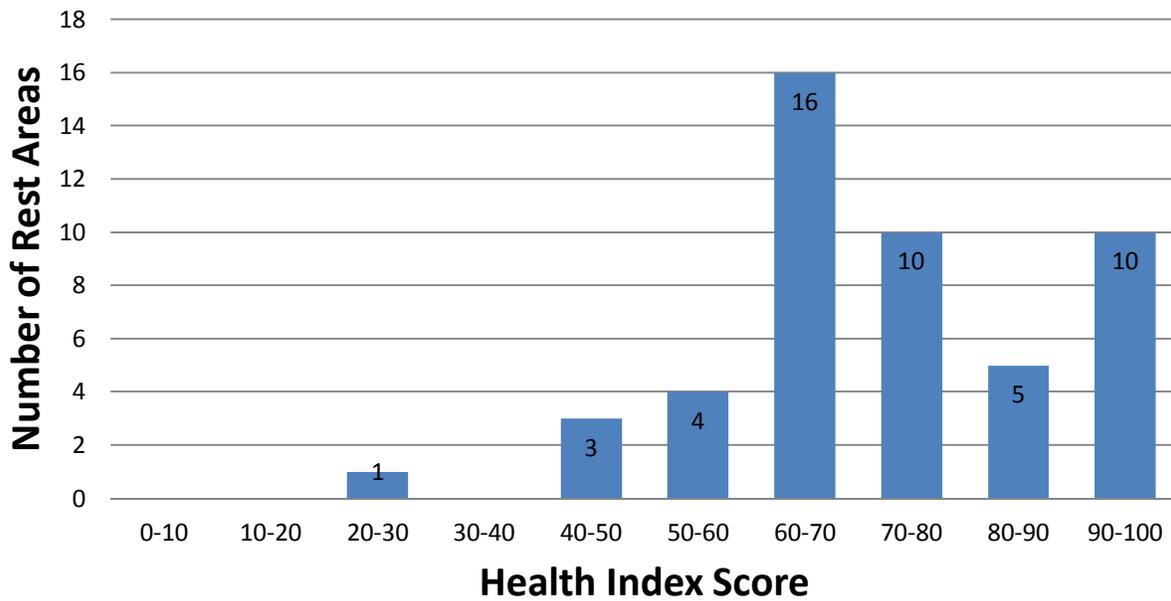
State-maintained Rest Areas					
Rest Area (Alphabetical)		Health Index Score	Rest Area (In Order of Lowest to Highest Score)		Health Index Score
15	Custer (West) Rest Area	71.67	15	Hysham (East) Rest Area	64.00
16	Dearborn (North) Rest Area	95.00	16	Emigrant Rest Area	64.33
17	Dearborn (South) Rest Area	97.67	17	Columbus (West) Rest Area	64.67
18	Dena Mora (East) Rest Area	78.67	18	Bad Route Rest Area	65.00
19	Dena Mora (West) Rest Area	71.00	19	Flowing Wells Rest Area	65.00
20	Divide (North) Rest Area	69.67	20	Jefferson City (South) Rest Area	65.00
21	Divide (South) Rest Area	72.67	21	Hardin (East) Rest Area	67.00
22	Emigrant Rest Area	64.33	22	Hathaway (West) Rest Area	68.67
23	Flowing Wells Rest Area	65.00	23	Armington Junction Rest Area	69.67
24	Gold Creek (East) Rest Area	52.33	24	Divide (North) Rest Area	69.67
25	Gold Creek (West) Rest Area	48.67	25	Dena Mora (West) Rest Area	71.00
26	Greycliff (East) Rest Area	100.00	26	Troy Rest Area	71.33
27	Greycliff (West) Rest Area	100.00	27	Custer (West) Rest Area	71.67
28	Hardin (East) Rest Area	67.00	28	Clearwater Junction Rest Area	72.33
29	Hardin (West) Rest Area	73.33	29	Divide (South) Rest Area	72.67
30	Harlowton Rest Area	97.67	30	Hardin (West) Rest Area	73.33
31	Hathaway (East) Rest Area	63.67	31	Lost Trail Pass Rest Area	73.67
32	Hathaway (West) Rest Area	68.67	32	Anaconda Rest Area	75.00
33	Hysham (East) Rest Area	64.00	33	Dena Mora (East) Rest Area	78.67
34	Hysham (West) Rest Area	61.67	34	Mosby Rest Area	78.67
35	Jefferson City (North) Rest Area	63.33	35	Lima Rest Area	80.33
36	Jefferson City (South) Rest Area	65.00	36	Bozeman Rest Area	81.67
37	Lima Rest Area	80.33	37	Broadus Rest Area	82.33
38	Lost Trail Pass Rest Area	73.67	38	Sweet Grass Rest Area	88.00
39	Mosby Rest Area	78.67	39	Culbertson Rest Area	89.00
40	Quartz Flats (East) Rest Area	52.33	40	Teton River (South) Rest Area	90.00
41	Quartz Flats (West) Rest Area	48.33	41	Teton River (North) Rest Area	90.33
42	Raynolds Pass Rest Area	58.00	42	Dearborn (North) Rest Area	95.00
43	Roberts Rest Area	60.00	43	Dearborn (South) Rest Area	97.67
44	Sweet Grass Rest Area	88.00	44	Harlowton Rest Area	97.67
45	Teton River (North) Rest Area	90.33	45	Bearmouth (East) Rest Area	100.00
46	Teton River (South) Rest Area	90.00	46	Bearmouth (West) Rest Area	100.00
47	Troy Rest Area	71.33	47	Conrad Rest Area	100.00
48	Vandalia Rest Area	59.00	48	Greycliff (East) Rest Area	100.00
49	Vista Point Rest Area ⁽¹⁾	24.00	49	Greycliff (West) Rest Area	100.00

Source: DOWL HKM, 2014. Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory). ⁽¹⁾ Site does not have domestic water service. Wastewater service consists of vaulted toilets.

Figure 2-1 illustrates the distribution of state-maintained rest area health index scores. The arithmetic mean (i.e., the average) is approximately 73. The median (i.e., the value separating the lower and upper halves of the data set) is approximately 71. Most rest areas fall within the 60 to 100 scoring range.

Health index scores are only intended for comparison purposes to assist the Statewide Rest Area Prioritization Plan Committee in identifying relative statewide needs. Demand estimates provided in this memorandum are not intended for use during design.

Figure 2-1 Health Index Score Distribution for State-maintained Rest Areas



Source: DOWL HKM, 2014.

Note: The single site within the scoring range from 20 to 30 is Vista Point, which does not have domestic water service. All relevant water and wastewater categories are assigned a “poor” value.

3.0 Network Evaluation

The Montana Rest Area Plan recommends approximately one hour of travel time between rest areas (including major resting locations), which is consistent with AASHTO guidelines.

All National Highway System (NHS) and Primary System routes, and select Secondary System routes, were assessed for this study, with corridor segment endpoints defined at rest areas, parking areas, and urban areas. Rest areas and parking areas are listed in Table 1.1. MDT provided a list of urban areas, which included Anaconda, Belgrade, Billings, Bozeman, Butte, Columbia Falls, Glendive, Great Falls, Hamilton, Havre, Helena, Kalispell, Laurel, Lewistown, Livingston, Miles City, Missoula, Sidney, and Whitefish. An analysis distance of 70 miles was used to approximate one hour of travel time.

In an initial spacing scenario, all statewide rest areas and parking facilities (including state-maintained facilities and facilities maintained by others) were considered. A second spacing scenario only considered rest areas open year-round. Table 3.1 and Table 3.2 list corridor segments exceeding 70 miles. Attachment 12 provides maps illustrating corridor segment locations. Nearby out-of-state rest areas and cities were also considered in the spacing analysis.

The results of this analysis are intended to assist MDT in identifying potential locations for new rest areas and locations where service may be reduced. For example, a corridor segment more than double the 70-mile analysis distance may benefit from construction of a new rest area. Conversely, MDT could consider a reduction in service for a rest area or parking area where the summation of upstream and downstream segment distances is less than the 70-mile analysis

distance. Using this method, potential redundant sites include the Alberton Parking Area, Gold Creek Rest Area, Lyons Creek Parking Area, Red Rock Parking Area, Rock Creek Parking Area, and Wibaux Rest Area.

Table 3.1 Corridor Segments Exceeding 70 Miles (Year-round Rest Areas Only)

Corridor	Beginning Location	Ending Location	Mileage
NHS Interstate			
C000090W	Sheridan, WY Rest Area	Billings (Urban Area)	128
C000090E	Billings (Urban Area)	Sheridan, WY Rest Area	128
C000015S	Divide (South) Rest Area	Lima Rest Area	93
C000015N	Lima Rest Area	Divide (North) Rest Area	93
C000090W	Belgrade (Urban Area)	Butte (Urban Area)	71
C000090E	Butte (Urban Area)	Belgrade (Urban Area)	71
NHS Non-Interstate			
C000001E	Culbertson Rest Area	Havre (Urban Area)	262
C000001E	Columbia Falls (Urban Area)	Havre (Urban Area)	245
C000057E	Mosby Rest Area	Glendive (Urban Area)	164
C000061N	Malta (City/Town)	Roundup (City/Town)	157
US-191 (WY)	West Yellowstone Rest Area	Jackson, WY (City/Town)	113
C000005N	Kalispell (Urban Area)	I-90	112
C000024E	Clearwater Junction Rest Area	Great Falls (Urban Area)	107
C000010N	Great Falls (Urban Area)	Havre (Urban Area)	107
C000001E	Troy Rest Area	Kalispell (Urban Area)	103
C000037E	Broadus Rest Area	Crow Agency (City/Town)	103
C000004N	Laurel (Urban Area)	Greybull, WY Rest Area	102
US-12 (ID)	Lolo Pass Parking Area	Kooskia, ID Rest Area	101
C000023S	Broadus Rest Area	Belle Fourche, SD (City/Town)	93
C000007N	Hamilton (Urban Area)	Salmon, ID Rest Area	89
C000050N	West Yellowstone Rest Area	Bozeman (Urban Area)	82
C000057E	Armington Junction Rest Area	Lewistown (Urban Area)	82
C000023S	Broadus Rest Area	Miles City (Urban Area)	79
C000057E	Mosby Rest Area	Lewistown (Urban Area)	77
Other System			
C000002E	Miles City (Urban Area)	Mobridge, SD (City/Town)	288
C000006E	Ravalli (City/Town)	Sandpoint, ID (City/Town)	149
C000013N	Refer to Attachment 11		107
C000014E	Roundup (City/Town)	Forsyth (City/Town)	101
C000003N	Great Falls (Urban Area)	Browning (City/Town)	101
C000014E	Harlowton Rest Area	Townsend (City/Town)	101
C000083N	Clearwater Junction Rest Area	Bigfork (City/Town)	91
C000028N	Rockvale (City/Town)	Cooke City (City/Town)	91
C000054N	Broadus Rest Area	Gillette, WY (City/Town)	82
C000027N	Wibaux Rest Area	Ekalaka (City/Town)	80
C000046E	Refer to Attachment 11		77
C000042N	Refer to Attachment 11		76
C000060N	Armington Junction Rest Area	White Sulphur Springs (City/Town)	71
C000323S	Ekalaka (City/Town)	Alzada (City/Town)	71
C000051E	Circle (City/Town)	Sidney (City/Town)	71

Source: DOWL HKM, 2014. Beginning and ending locations are approximated at the closest reference point.

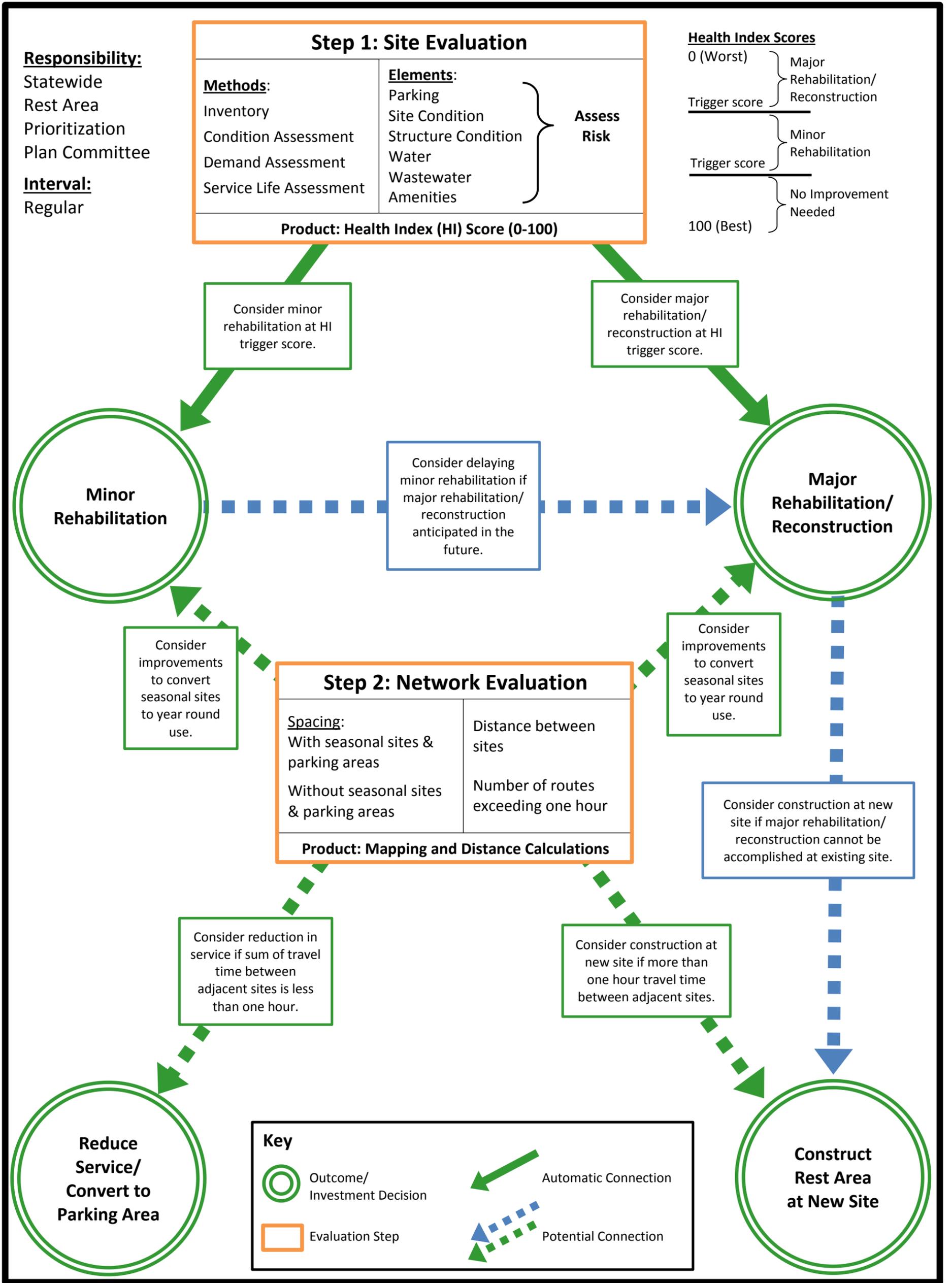
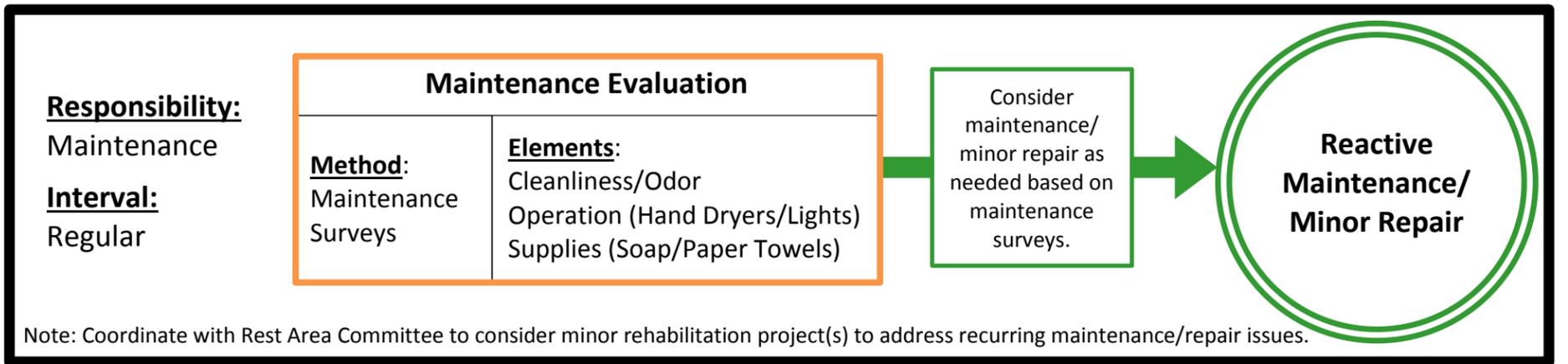
Table 3.2 Corridor Segments Exceeding 70 Miles (All Rest Areas and Parking Areas)

Corridor	Beginning Location	Ending Location	Mileage
NHS Interstate			
C000090W	Sheridan, WY Rest Area	Hardin (West) Rest Area	103
C000090E	Hardin (East) Rest Area	Sheridan, WY Rest Area	103
NHS Non-Interstate			
C000061N	Malta City Park Rest Area	Roundup City Park Rest Area	157
C000001E	Culbertson Rest Area	Vandalia Rest Area	118
US-191 (WY)	West Yellowstone Rest Area	Jackson, WY (City/Town)	113
C000024E	Clearwater Junction Rest Area	Great Falls (Urban Area)	107
C000001E	Troy Rest Area	Kalispell (Urban Area)	103
C000037E	Broadus Rest Area	Crow Agency (City/Town)	103
US-12 (ID)	Lolo Pass Parking Area	Kooskia, ID Rest Area	101
C000023S	Broadus Rest Area	Belle Fourche, SD (City/Town)	93
C000001E	Malta City Park Rest Area	Havre (Urban Area)	88
C000057E	Flowing Wells Rest Area	Mosby Rest Area	88
C000005N	Ravalli Hill Rest Area	Kalispell (Urban Area)	83
C000050N	West Yellowstone Rest Area	Bozeman (Urban Area)	82
C000057E	Armington Junction Rest Area	Lewistown City Park Rest Area	80
C000023S	Broadus Rest Area	Miles City (Urban Area)	79
C000057E	Mosby Rest Area	Lewistown (Urban Area)	77
C000004N	Bridger Rest Area	Greybull, WY Rest Area	77
C000057E	Flowing Wells Rest Area	Glendive (Urban Area)	77
C000010N	Big Sandy City Park Rest Area	Great Falls (Urban Area)	76
Other System			
C000002E	Locate Parking Area	Mobridge, SD (City/Town)	248
C000006E	Ravalli Hill Rest Area	Sandpoint, ID (City/Town)	149
C000014E	Roundup City Park Rest Area	Forsyth (City/Town)	101
C000014E	Harlowton Rest Area	Townsend (City/Town)	101
C000083N	Clearwater Junction Rest Area	Bigfork (City/Town)	91
C000054N	Broadus Rest Area	Gillette, WY (City/Town)	82
C000027N	Wibaux Rest Area	Ekalaka (City/Town)	80
C000046E	Lost Trail Pass Rest Area	I-15	77
C000042N	Flowing Wells Rest Area	Glasgow (City/Town)	76
C000060N	Armington Junction Rest Area	White Sulphur Springs (City/Town)	71
C000323S	Ekalaka (City/Town)	Alzada (City/Town)	71
C000051E	Circle (City/Town)	Sidney (Urban Area)	71

Source: DOWL HKM, 2014. Beginning and ending locations are approximated at the closest reference point.

Attachment 1

FLOWCHART



Attachment 2

HEALTH INDEX SCORING DEFINITIONS

Scoring Definitions

Element	Score	Definition	
Parking	Passenger Vehicle Parking Stalls	7.00	Excellent: Meets future 2031 demand (and current demand).
		4.67	Good: Meets current 2011 demand.
		2.33	Fair: Meets 85 percent of current 2011 demand.
		0.00	Poor: Meets less than 85 percent of current 2011 demand.
	Commercial Vehicle Parking Stalls	7.00	Excellent: Meets future 2031 demand (and current demand).
		4.67	Good: Meets current 2011 demand.
		2.33	Fair: Meets 85 percent of current 2011 demand.
		0.00	Poor: Meets less than 85 percent of current 2011 demand.
	Drainage Condition	1.00	Excellent: New parking area, no ponding or flat areas.
		0.67	Good: No ponding or flat areas.
		0.33	Fair: Some ponding and flat areas.
		0.00	Poor: Ponding or large areas of water retention.
	Pavement Condition	1.00	Excellent: New pavement, no cracking or rutting.
		0.67	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
		0.33	Fair: Moderately rough surface, cracking 3/8" to 3" wide, some network cracking, rutting depths 1"-2".
		0.00	Poor: Rough surface, cracks > 3" wide, well-defined network cracking, rutting depths > 2".
	Pavement Striping Quality	1.00	Excellent: New, excellent condition.
		0.67	Good: Functional, adequate coverage.
		0.33	Fair: Functional, some deterioration.
		0.00	Poor: Non-functional and deteriorated.
Remaining Service Life	2.00	Excellent: 16 to 20 years remaining.	
	1.33	Good: 11 to 15 years remaining.	
	0.67	Fair: 6 to 10 years remaining.	
	0.00	Poor: 0 to 5 years remaining.	

Scoring Definitions

Element	Score	Definition	
Site	Exterior Lighting	2.00	Excellent: Lighting provided for all 4 areas (parking areas, building entries, highway ramps, and walkways).
		1.33	Good: Lighting provided for 3 areas.
		0.67	Fair: Lighting provided for 2 areas.
		0.00	Poor: No exterior lighting.
	Landscaping/Lawn Areas	1.00	Excellent: New landscaping, plants/grass alive and healthy.
		0.67	Good: Plants/grass are alive & appear healthy.
		0.33	Fair: Plants/grass are alive but do not appear healthy.
		0.00	Poor: Plants/grass are not alive.
	Picnic Areas	1.00	Excellent: New picnic facilities, excellent condition.
		0.67	Good: Functional, well-maintained, clean.
		0.33	Fair: Functional, some maintenance/cleaning required.
		0.00	Poor: Non-functional, poor appearance, or no picnic facilities provided.
	Sidewalks	2.00	Excellent: New sidewalks, no deterioration.
		1.33	Good: Adequate connectivity, minimal deterioration.
		0.67	Fair: Adequate connectivity, some deterioration.
		0.00	Poor: Discontinuous, deteriorated.
	Site Signage	1.00	Excellent: New signage, excellent condition.
		0.67	Good: Directs traffic properly, indicates site areas.
		0.33	Fair: Necessities are signed, fair appearance.
		0.00	Poor: Missing signage or unreadable.
	Exterior Waste Receptacles	1.00	Excellent: New receptacles, excellent appearance.
		0.67	Good: Good appearance, receptacles with lids.
		0.33	Fair: Fair appearance, receptacles without lids.
		0.00	Poor: Poor appearance, receptacles without lids, or no receptacles provided.

Scoring Definitions

Element	Score	Definition
Structure	Facility Ventilation	<p>2.00 Excellent: No odor problem</p> <p>0.00 Poor: Continuous odor problem</p>
	Floor Condition	<p>1.00 Excellent: New flooring, excellent condition.</p> <p>0.67 Good: No cracks or separation, level.</p> <p>0.33 Fair: Some wear and minor imperfections.</p> <p>0.00 Poor: Deteriorated and unattractive.</p>
	Interior Lighting	<p>2.00 Excellent: New interior lighting, excellent condition.</p> <p>1.33 Good: Good illumination, high efficiency fixtures.</p> <p>0.67 Fair: Sufficient illumination, older fixtures.</p> <p>0.00 Poor: Unsafe illumination, antiquated fixtures, or no interior lighting provided.</p>
	Paint	<p>1.00 Excellent: New paint, excellent condition.</p> <p>0.67 Good: Adequate coverage, no signs of chipping/peeling.</p> <p>0.33 Fair: Some maintenance required for isolated areas.</p> <p>0.00 Poor: Entire repaint needed.</p>
	Remaining Service Life	<p>2.00 Excellent: 45 to 50 years remaining</p> <p>1.33 Good: 30 to 44 years remaining</p> <p>0.67 Fair: 10 to 29 years remaining</p> <p>0.00 Poor: 0 to 9 years remaining</p>
	Restroom Plumbing Fixtures	<p>2.00 Excellent: New plumbing fixtures, excellent condition.</p> <p>1.33 Good: Good fixture and piping appearance, no leaks.</p> <p>0.67 Fair: Functional, some maintenance required.</p> <p>0.00 Poor: Leaking and damaged, or no plumbing fixtures provided.</p>
	Restroom Stalls	<p>5.00 Excellent: Meets future 2031 demand (and current demand).</p> <p>3.33 Good: Meets current 2011 demand.</p> <p>1.67 Fair: Meets 85 percent of current 2011 demand.</p> <p>0.00 Poor: Meets less than 85 percent of current 2011 demand.</p>
	Roofing	<p>2.00 Excellent: New roofing, excellent condition.</p> <p>1.33 Good: Watertight , no signs of deterioration, maintenance free.</p> <p>0.67 Fair: Watertight, some maintenance needed.</p> <p>0.00 Poor: Leaking and deteriorated.</p>
	Siding	<p>2.00 Excellent: New siding, excellent condition.</p> <p>1.33 Good: Sound, weatherproof, tight, good finish, maintenance free.</p> <p>0.67 Fair: Sound, weatherproof, some wear and tear.</p> <p>0.00 Poor: Deteriorated, leaking, significant air infiltration.</p>

Scoring Definitions

Element	Score	Definition	
Water	Municipal System	25.00 Excellent: Connected to a municipal system.	
	Source Capability to Meet Peak Daily Demand	5.00	Excellent: Source has adequate capacity to meet calculated existing and future peak daily demand.
		3.33	Good: Source has adequate capacity to meet calculated existing peak daily demand but does not have capacity to meet calculated future peak daily demand.
		1.67	Fair: Source does not have adequate capacity to meet calculated existing or future peak daily demand.
		0.00	Poor: Existing observed problems with quantity, source does not have capacity for existing demand.
	Storage Capability to Meet Peak Instantaneous Demand	4.00	Excellent: Storage is adequate to meet calculated existing and future peak instantaneous demand.
		2.67	Good: Storage is adequate to meet calculated existing peak instantaneous demand but not adequate to meet calculated future peak instantaneous demand. Future storage requirement can be satisfied through the addition of five or less additional pressure tanks.
		1.33	Fair: Storage is not adequate to meet existing or future peak instantaneous demand. Future storage requirement can be satisfied through the addition of five or less additional pressure tanks.
		0.00	Poor: Storage is not adequate to meet existing or future peak instantaneous demand. Future storage requirement cannot be satisfied with five or less additional pressure tanks.
	Operation & Maintenance	5.00	Excellent: No operation and maintenance concerns.
		3.33	Good: Minor isolated operation and maintenance concerns.
		1.67	Fair: Major recurring operation and maintenance concerns.
		0.00	Poor: Multiple recurring operation and maintenance concerns that may cause system to become non-functional.
	Backflow Prevention	1.00	Excellent: Backflow prevention is included on irrigation system line if domestic and irrigation source are the same.
0.00		Poor: Backflow prevention is not included on irrigation system line if domestic and irrigation source are the same.	
Source Quality (Transient Non-community Monitoring Regulations)	5.00	Excellent: No history of water quality violations for coliform bacteria or nitrates within the past five years. Water system does not require disinfection per well construction details. Currently, no treatment or disinfection is provided.	
	3.33	Good: No history of water quality violations for coliform bacteria or nitrates within the past five years. Water system requires disinfection based on well construction details or treatment and/or disinfection is currently provided.	
	1.67	Fair: Occasional water quality violations for coliform bacteria or nitrates within the past five years.	
	0.00	Poor: Recurring history of water quality violations for coliform bacteria or nitrates.	
Remaining Service Life	5.00	Excellent: 16 to 20 years remaining.	
	3.33	Good: 11 to 15 years remaining.	
	1.67	Fair: 6 to 10 years remaining.	
	0.00	Poor: 0 to 5 years remaining.	

Scoring Definitions

Element	Score	Definition	
Wastewater	Municipal System	25.00	Excellent: Connected to a municipal system.
	Treatment System	4.00	Excellent: On-site advanced system.
		2.67	Good: On-site septic drainfield, dosed with a pump.
		1.33	Fair: On-site septic drainfield, gravity system.
		0.00	Poor: Other.
	Wastewater Design Flow	6.00	Excellent: Future design flows are less than 5,000 gpd.
		0.00	Poor: Future design flows are greater than or equal to 5,000 gpd.
	Operation & Maintenance	6.00	Excellent: No operation and maintenance concerns.
		4.00	Good: Minor/isolated operation and maintenance concerns with septic tank or drainfield.
		2.00	Fair: Operation and maintenance concerns with both septic tank and drainfield or need for frequent septic tank pumping.
		0.00	Poor: Multiple operation and maintenance concerns with system, indications of system failure.
	Site Constraints	3.00	Excellent: Drainfield area to available area ratio is less than 5.
2.00		Good: Drainfield area to available area ratio is between 5 and 10.	
1.00		Fair: Drainfield area to available area ratio is between 10 and 15.	
0.00		Poor: Drainfield area to available area ratio is greater than 15.	
Remaining Service Life	6.00	Excellent: 16 to 20 years remaining.	
	4.00	Good: 11 to 15 years remaining.	
	2.00	Fair: 6 to 10 years remaining.	
	0.00	Poor: 0 to 5 years remaining.	
Amenities	Number of Amenities	4.00	Excellent: 10 or more amenities
2.67		Good: 5 to 9 amenities	
1.33		Fair: 1 to 4 amenities	
0.00		Poor: No amenities	

Attachment 3

SITE EVALUATION FORMS

Site Evaluation Summary

Rest Area Name	Parking			Site							Structure							Amenities	
	Drainage Condition	Pavement Condition	Pavement Striping Quality	Exterior Lighting #	Exterior Lighting Score	Landscaping/Lawn Areas	Picnic Facilities	Sidewalks	Site Signage	Exterior Waste Receptacles	Facility Ventilation	Floor Condition	Interior Lighting	Paint	Restroom Plumbing Fixtures	Roofing	Siding	Number of Amenities	Rating
1	Anaconda Rest Area	Good	Good	Good	4	Excellent	Good	Excellent	Excellent	Good	Good	Excellent	Good	Good	Good	Good	Good	11	Excellent
2	Armington Junction Rest Area	Good	Good	Good	4	Excellent	Good	Good	Good	Good	Good	Excellent	Good	Good	Good	Good	Good	7	Good
3	Bad Route Rest Area	Fair	Good	Fair	4	Excellent	Good	Fair	Good	Good	Good	Excellent	Good	Good	Fair	Good	Good	7	Good
4	Bearmouth (East) Rest Area	Excellent	Excellent	Excellent	4	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	16	Excellent
5	Bearmouth (West) Rest Area	Excellent	Excellent	Excellent	4	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	16	Excellent
6	Bozeman Rest Area	Good	Good	Good	4	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Good	Excellent	Good	Excellent	11	Excellent
7	Bridger Rest Area	Good	Good	Fair	3	Good	Good	Good	Good	Good	Good	Excellent	Good	Fair	Good	Good	Fair	7	Good
8	Broadus Rest Area	Fair	Good	Good	4	Excellent	Good	Good	Good	Good	Good	Excellent	Good	Good	Good	Good	Good	7	Good
9	Clearwater Junction Rest Area	Good	Good	Good	4	Excellent	Excellent	Excellent	Good	Good	Excellent	Excellent	Good	Good	Good	Excellent	Excellent	7	Good
10	Columbus (East) Rest Area	Fair	Fair	Fair	3	Good	Good	Fair	Good	Good	Good	Excellent	Good	Fair	Good	Fair	Good	8	Good
11	Columbus (West) Rest Area	Fair	Fair	Fair	3	Good	Good	Fair	Fair	Good	Good	Excellent	Good	Fair	Good	Good	Good	8	Good
12	Conrad Rest Area	Excellent	Excellent	Excellent	4	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	10	Excellent
13	Culbertson Rest Area	Good	Good	Fair	4	Excellent	Good	Good	Good	Fair	Good	Excellent	Good	Good	Good	Good	Good	6	Good
14	Custer (East) Rest Area	Fair	Good	Good	3	Good	Good	Good	Fair	Good	Fair	Excellent	Good	Fair	Good	Good	Good	8	Good
15	Custer (West) Rest Area	Good	Good	Good	3	Good	Good	Good	Good	Good	Good	Excellent	Good	Fair	Good	Good	Good	8	Good
16	Dearborn (North) Rest Area	Excellent	Excellent	Good	3	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	9	Good
17	Dearborn (South) Rest Area	Excellent	Excellent	Good	3	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	9	Good
18	Dena Mora (East) Rest Area	Good	Good	Good	4	Excellent	Excellent	Good	Fair	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	8	Good
19	Dena Mora (West) Rest Area	Excellent	Excellent	Good	3	Good	Excellent	Excellent	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	8	Good
20	Divide (North) Rest Area	Good	Good	Good	3	Good	Fair	Fair	Good	Good	Fair	Excellent	Good	Good	Good	Good	Good	7	Good
21	Divide (South) Rest Area	Good	Good	Fair	3	Good	Good	Good	Fair	Good	Fair	Excellent	Good	Good	Good	Fair	Good	7	Good
22	Emigrant Rest Area	Good	Good	Good	3	Good	Excellent	Good	Good	Good	Good	Excellent	Good	Good	Good	Good	Fair	8	Good
23	Flowing Wells Rest Area	Fair	Good	Poor	3	Good	Good	Good	Fair	Poor	Good	Excellent	Good	Fair	Good	Good	Good	6	Good
24	Gold Creek (East) Rest Area	Good	Good	Good	3	Good	Good	Good	Fair	Good	Good	Poor	Good	Fair	Fair	Fair	Fair	8	Good
25	Gold Creek (West) Rest Area	Fair	Excellent	Good	3	Good	Excellent	Fair	Fair	Fair	Fair	Poor	Good	Fair	Fair	Fair	Fair	8	Good
26	Greycliff (East) Rest Area	Excellent	Excellent	Excellent	4	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	14	Excellent
27	Greycliff (West) Rest Area	Excellent	Excellent	Excellent	4	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	14	Excellent
28	Hardin (East) Rest Area	Good	Good	Good	3	Good	Good	Good	Good	Good	Good	Excellent	Good	Fair	Fair	Good	Fair	7	Good
29	Hardin (West) Rest Area	Fair	Good	Good	3	Good	Good	Fair	Good	Good	Good	Excellent	Good	Fair	Fair	Good	Fair	7	Good
30	Harlowton Rest Area	Excellent	Excellent	Excellent	4	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Good	7	Good
31	Hathaway (East) Rest Area	Fair	Good	Poor	3	Good	Fair	Good	Fair	Good	Good	Excellent	Good	Fair	Good	Good	Good	8	Good
32	Hathaway (West) Rest Area	Fair	Good	Fair	3	Good	Fair	Good	Good	Good	Good	Excellent	Good	Fair	Good	Good	Good	7	Good
33	Hysham (East) Rest Area	Fair	Good	Good	3	Good	Fair	Fair	Good	Good	Good	Excellent	Good	Fair	Good	Good	Good	8	Good
34	Hysham (West) Rest Area	Fair	Good	Good	3	Good	Good	Good	Good	Good	Good	Excellent	Good	Fair	Good	Good	Good	7	Good
35	Jefferson City (North) Rest Area	Good	Good	Good	2	Fair	Good	Good	Fair	Good	Good	Excellent	Good	Fair	Good	Good	Good	6	Good
36	Jefferson City (South) Rest Area	Good	Good	Good	2	Fair	Good	Good	Fair	Good	Good	Excellent	Good	Fair	Good	Good	Good	7	Good
37	Lima Rest Area	Excellent	Good	Good	3	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	7	Good
38	Lost Trail Pass Rest Area	Good	Good	Fair	3	Good	Good	Good	Good	Good	Good	Excellent	Good	Good	Good	Good	Good	7	Good
39	Mosby Rest Area	Good	Good	Good	4	Excellent	Good	Excellent	Fair	Good	Excellent	Excellent	Excellent	Good	Good	Good	Good	8	Good
40	Quartz Flats (East) Rest Area	Good	Good	Fair	3	Good	Excellent	Fair	Good	Good	Good	Excellent	Good	Good	Good	Good	Good	6	Good
41	Quartz Flats (West) Rest Area	Good	Good	Good	3	Good	Excellent	Fair	Good	Good	Good	Excellent	Good	Good	Good	Good	Excellent	6	Good
42	Raynolds Pass Rest Area	Good	Good	Good	3	Good	Fair	Fair	Fair	Fair	Good	Excellent	Good	Fair	Fair	Good	Good	7	Good
43	Roberts Rest Area	Good	Good	Good	3	Good	Good	Good	Good	Good	Good	Excellent	Good	Good	Good	Good	Fair	5	Good
44	Sweet Grass Rest Area	Excellent	Good	Good	3	Good	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	10	Excellent
45	Teton River (North) Rest Area	Excellent	Excellent	Excellent	3	Good	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Good	7	Good
46	Teton River (South) Rest Area	Excellent	Excellent	Excellent	3	Good	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Good	7	Good
47	Troy Rest Area	Good	Good	Excellent	4	Excellent	Excellent	Good	Good	Excellent	Excellent	Poor	Good	Good	Good	Fair	Good	6	Good
48	Vandalia Rest Area	Good	Good	Good	3	Good	Fair	Good	Fair	Fair	Good	Excellent	Good	Good	Good	Good	Good	5	Good
49	Vista Point Rest Area	Fair	Good	Good	0	Poor	Good	Poor	Fair	Good	Good	Poor	Good	Poor	Good	Good	Good	6	Good

Source: MDT, 2013; DOWL HM, 2013. Note: Highlighted values indicate entries by DOWL HKM following the July 2013 inventory conducted by MDT.

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/9/2013	Facility Status	Availability Unknown
Facility Name	Alberton (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	072+0.008	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	clark fork river
Site Topography	Mountainous		
Adjoining Vegetation (if rural)	Forest		
Water Features	Stream/River		
Distance(ft) to Facility	800	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	clark fork river, rock bank
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	17
Truck	3

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	6
Interior Waste Receptacles	No	No	
Picnic Structures	No	No	
Picnic Tables (ADA)	No	No	
Picnic Tables (Non-ADA)	No	No	
Perimeter Fencing	No	NA	

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	Glacial Lake Missoula
	1	steel posts	Flying High Across the Big Sky

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Fair: Fair appearance, receptacles without lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Poor: Unsafe illumination, antiquated fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Fair: Functional, some maintenance required.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/9/2013	Facility Status	Availability Unknown
Facility Name	Alberton (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	073+0.324	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Brush		
Water Features			
Distance(ft) to Facility	75	Observable constraints to expansion?	No
Site floodplain maps available?		If Yes, explain	
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	8
Truck	1

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	3
Interior Waste Receptacles	No		
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	Yes		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	Glacial Lake Miissoula
	1	wooden posts	A Wonderful Piece of Engineering: The Big Side Cut

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	Yes
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	No
Security Features (Exterior)	No
Telephones	No
Vending Machines	No
Trails	No
Cell Phone/Satellite Coverage	Yes
Wi-Fi	No
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/15/2013
Facility Name	Anaconda (copy/paste from Database)
MDT District	Butte
Facility Type	MDT Rest Area
Route	P-19
Reference Post	000+0.727
Roadbed	E

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	No
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	4
Auto (Non-ADA)	27
Truck	15

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		9
Interior Waste Receptacles	Yes		8
Picnic Structures	Yes		2
Picnic Tables (ADA)	Yes		4
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	4	4			2
Sinks	4	4			2
Toilets, Flush Type	4	4			2
Urinals	4				1
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		2	4x6
		4	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	The Anaconda-Pintler and Flint Creek Mountains
	1	steel posts	Silver Bow Creek Remediation and Restoration

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	Yes		11
Security Features (Interior)	Yes		
Security Features (Exterior)	Yes		
Telephones	No		
Vending Machines	Yes		1
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	2, .5
SB	2, .5
EB	1, .1

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Good: Clear and legible.

Comments/Unique Issues or Features

Photo Numbers 100-0074 thru 100-0125

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/30/2013	Facility Status	Year-Round
Facility Name	Armington Junction <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-60	Year of most recent rehab	
Reference Post	071+0.078	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	Belt Creek to the East, but
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	1800	Observable constraints to expansion?	No
Site floodplain maps available?		If Yes, explain	
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	13
Truck	12

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	12
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	1			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	3	wooden posts	Mountains, Belt Butte, and the Great Falls Coal Field
			Welcome To Armington Junction.
			Heading South on the Kings Hill Scenic Biway.

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1
WB	1
NB	1

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Both picnic structures could be of ADA standards with the addition of a ramp, signage, and possibly wider sidewalks at the Northern

Photo Numbers

100-0205 thru 100-0245

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/24/2013	Facility Status	Year-Round
Facility Name	Bad Route <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-94	Year of most recent rehab	
Reference Post	192+0.549	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	Riparian area to West
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	36
Truck	13

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	17
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	4
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	Yes	11
Perimeter Fencing	No	NA

Wastewater System:

Treatment System

If on-site septic/drainfield

If dosed with a pump, do the pumps include run-time meters?

Year of Construction

Year of Rehabilitation

Is an effluent meter installed?

Inspection Requirements

Power:

Power Source

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source

Is site irrigated?

Indicate irrigated areas on site map

Is irrigation source separate from domestic source?

Irrigation water source

Is backflow prevention included on irrigation?

Are water meters installed?

Describe meter location(s)

Is water source treated?

Type of treatment

Is water source disinfected?

Type of disinfection

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		1	4x8
		2	4x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	The Yellowstone River

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	No		
Pet Areas	Yes		2
Playground Areas	No		
Seating (not picnic tables)	Yes		2
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	No		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, 1.5, .5
WB	2, 1.5, .5

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/15/2013	Facility Status	Availability Unknown
Facility Name	Barretts <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	055+0.116	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	13
Truck	4

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	8
Interior Waste Receptacles	No	No	
Picnic Structures	No	No	
Picnic Tables (ADA)	No	No	
Picnic Tables (Non-ADA)	No	No	
Perimeter Fencing	No	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets	0	0	0		

no restrooms or vault toilets.

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Bannack
	1	wooden posts	Old Trail to the Gold Diggins
	1	rock mount	IN APPRECIATION TO THE MEN AND WOMEN...

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	
Interior Lighting	
Paint	
Restroom Plumbing Fixtures	
Roofing	
Siding	
Facility Ventilation	

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)

Is highway signage provided at the rest area ramp locations?

Sign Condition

Comments/Unique Issues or Features

Parking area only. No restrooms/toilets.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington
Date:	7/3/2013
Facility Name	Bearmouth (east)
	(copy/paste from Database)
MDT District	Missoula
Facility Type	MDT Rest Area
Route	I-90
Reference Post	143+0.000
Roadbed	E

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Brush
Water Features	Wetland
Distance(ft) to Facility	150
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	wetland to W
Observable constraints to expansion?	Yes
If Yes, explain	wetland to W

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	4
Auto (Non-ADA)	30
Truck	12

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		9
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		2
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		11
Perimeter Fencing	Yes		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	2				
Vault Toilets				1	

Water System:

Water Source	On-Site Well
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	On-Site Well
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)	III ^d
Montana Highway Maps	Yes	N/A		
Display Cases		1	3x4	
		1	4x8	
		1	4x4	

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone	Bearmouth
	1	steel posts	Madison limestone and the garnet mountains

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	Yes		
Pet Areas	Yes		2
Playground Areas	Yes		
Seating (not picnic tables)	Yes		3
Security Features (Interior)	Yes		
Security Features (Exterior)	Yes		
Telephones	Yes		
Vending Machines	Yes		
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	Yes		N/A
Other	Yes		

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	EB	0.5

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington
Date:	7/3/2013
Facility Name	Bearmouth (west)
	(copy/paste from Database)
MDT District	Missoula
Facility Type	MDT Rest Area
Route	I-90
Reference Post	142+0.662
Roadbed	W

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Brush
Water Features	Lake/Pond
Distance(ft) to Facility	200
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	pond to E
Observable constraints to expansion?	Yes
If Yes, explain	pond to E

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	33
Truck	11

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	4
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	17
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	2				
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)	Other
Montana Highway Maps	Yes	N/A		
Display Cases		1	3x4	
		1	4x8	
		1	2x4	

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone	bearmouth
	1	steel posts	the mullan road

	Count
Drinking Fountains	2
Interactive Monitors	
Pet Areas	2
Playground Areas	
Seating (not picnic tables)	2
Security Features (Interior)	
Security Features (Exterior)	
Telephones	
Vending Machines	
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	WB	0.5

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

changing tables in each rest room.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/30/2013
Facility Name	Big Sandy (copy/paste from Database)
MDT District	Great Falls
Facility Type	City Park Rest Area
Route	N-10
Reference Post	079+0.290
Roadbed	N

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Urban
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	Yes
If Yes, explain	In between city streets and

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	14
Truck	4

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	2
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	3
Picnic Tables (Non-ADA)	Yes	3
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	1			
Sinks	1	1			
Toilets, Flush Type	1	1			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases		1	3x3

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	An Island On the Plains

	Count
Drinking Fountains	1
Interactive Monitors	No
Pet Areas	No
Playground Areas	1
Seating (not picnic tables)	5
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	1
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Fair: Moderately rough surface, cracking 3/8" to 3" wide, some network cracking, rut depths 1"-2".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	No

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	1
NB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

No striping at all. Auto spaces and truck spaces are estimated. No ADA signage, but there is wheelchair access to the sidewalk, re

Photo Numbers

100-0178 thru 100-0203

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/17/2013	Facility Status	Year-Round
Facility Name	Bozeman <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	Yes
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	305+0.410	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Urban	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	26
Truck	10

Site Features:

	#
Exterior Waste Receptacles	Yes 8
Interior Waste Receptacles	Yes 6
Picnic Structures	Yes 2
Picnic Tables (ADA)	Yes 8
Picnic Tables (Non-ADA)	No
Perimeter Fencing	Yes NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	2	2		1	
Toilets, Flush Type	4	4		1	
Urinals	4	6		1	
Vault Toilets	2				

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		4	3x5
		2	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	7	steel posts	See Comment area
	1	wooden post	Pioneer Museum
	1	metal post	Blue Star Memorial

	Count
Drinking Fountains	Yes 2
Interactive Monitors	Yes 1
Pet Areas	Yes 1
Playground Areas	No
Seating (not picnic tables)	Yes 9
Security Features (Interior)	
Security Features (Exterior)	
Telephones	Yes 1
Vending Machines	Yes 1
Trails	Yes N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, .3
WB	2, .3

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Excellent: New highway signage.

Comments/Unique Issues or Features

Garbage cans at truck area were a bit unsightly, right next to a walkway. Gallon jug of pump hand soap on mens sink area. I don't

100-0390 thru 100-0444

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/18/2013	Facility Status	Seasonal
Facility Name	Bridger <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-4	Year of most recent rehab	
Reference Post	029+0.102	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	creek bottom land, lush
Site Topography	Flat	Observable constraints to expansion?	No
Adjoining Vegetation (if rural)	Grass	If Yes, explain	
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	13
Truck	5

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	8
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		1	4x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	The Pryor Mountains
	1	steel posts	The Pryor Mountains and Raptor Country

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	1
SB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/19/2013	Facility Status	Year-Round
Facility Name	Broadus <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-23	Year of most recent rehab	
Reference Post	081+0.009	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	9
Truck	14

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x3
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	3	wooden posts	The Powder River Country
			The Hell Creek Formation
			Southeastern Montana

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	Yes		1
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	No		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	1
SB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

This site is part of the Broadus Visitors Center and an MDT Weigh Station. Good condition overall. Older Gent in visitor center said

Photo Numbers

100-0242 thru 100-0289

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/11/2013
Facility Name	Chester (copy/paste from Database)
MDT District	Great Falls
Facility Type	City Park Rest Area
Route	N-1
Reference Post	322+0.302
Roadbed	E

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	W
Setting	Urban
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	Stream/River
Distance(ft) to Facility	100
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	creek to East.
Observable constraints to expansion?	Yes
If Yes, explain	railroad to North, creek to E

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	30
Truck	0

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	5
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	6
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets	1	1			

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases		1	2x4
		1	3x4
		1	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	Yes 2
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	No
Security Features (Exterior)	No
Telephones	No
Vending Machines	No
Trails	No N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Concrete
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Fair: Fair appearance, receptacles without lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1
WB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/11/2013
Facility Name	Choteau (copy/paste from Database)
MDT District	Great Falls
Facility Type	City Park Rest Area
Route	P-3
Reference Post	041+0.790
Roadbed	N

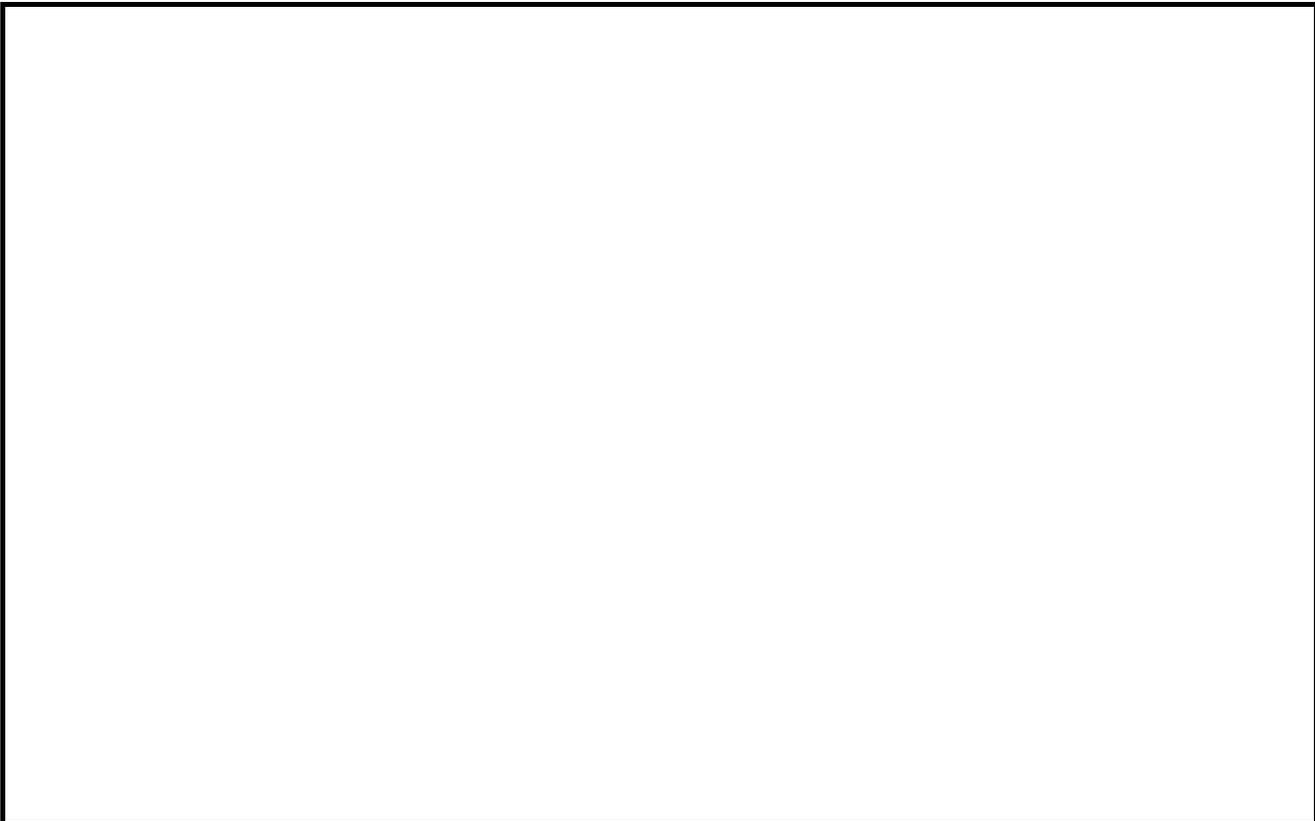
Land Area (Acres)	0
Facility Status	Availability Unknown
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Urban
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	Wetland
Distance(ft) to Facility	500
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	wetland to East
Observable constraints to expansion?	Yes
If Yes, explain	RR to East, In town site.

Site Map



Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	8
Truck	0

Site Features:

	Yes/No	#
Exterior Waste Receptacles	Yes	1
Interior Waste Receptacles	Yes	2
Picnic Structures	No	
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	1
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wall mount	Wildlife at the Edge of Time
	1	wall mount	Lewis and Clark
	1	wall mount	The World

	Count
Drinking Fountains	Yes 1
Interactive Monitors	No
Pet Areas	Yes
Playground Areas	No
Seating (not picnic tables)	Yes 2
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	Yes
Trails	No N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Poor: Non-functional, poor appearance, or no picnic facilities
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	NB	0.25
	SB	0.25

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Site shared with City of Chouteau Chamber of Commerce. No striping for cars, RV's, trucks.

Photo Numbers 100-0348 thru 100-0369

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington	Land Area (Acres)	0
Date:	7/3/2013	Facility Status	Year Round
Facility Name	Clearwater <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-24	Year of most recent rehab	
Reference Post	031+0.955	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	4
Auto (Non-ADA)	26
Truck	5, 9 (14)

Site Features:

		#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	8
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	Yes	

Wastewater System:

Treatment System

If on-site septic/drainfield

If dosed with a pump, do the pumps include run-time meters?

Year of Construction

Year of Rehabilitation

Is an effluent meter installed?

Inspection Requirements

Power:

Power Source

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	1	1			
Toilets, Flush Type	1ada	1,1ada(2)			2
Urinals	1				
Vault Toilets					

Water System:

Water Source

Is site irrigated?

Indicate irrigated areas on site map

Is irrigation source separate from domestic source?

Irrigation water source

Is backflow prevention included on irrigation?

Are water meters installed?

Describe meter location(s)

Is water source treated?

Type of treatment

Is water source disinfected?

Type of disinfection

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	4x4
		1	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	A vast network of indigenous trails
	1	steel posts	Big blackfoot milling company

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	2
Playground Areas	No
Seating (not picnic tables)	2
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1, .5
WB	1, .5

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/19/2013
Facility Name	Columbus (east) (copy/paste from Database)
MDT District	Billings
Facility Type	MDT Rest Area
Route	I-90
Reference Post	418+0.843
Roadbed	E

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	No
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	35
Truck	8

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	12
Picnic Tables (Non-ADA)	Yes	2
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone/wood posts	Park City
	1	steel posts	The Great Inland Seaway

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	1
Playground Areas	No
Seating (not picnic tables)	2
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Fair: Moderately rough surface, cracking 3/8" to 3" wide, some network cracking, rut depths 1"-2".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Fair: Functional, some maintenance required.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/19/2013	Facility Status	Year-Round
Facility Name	Columbus (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	418+0.807	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	29
Truck	8

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	12
Picnic Tables (Non-ADA)	No	2
Perimeter Fencing	No	NA

Wastewater System:

Treatment System

If on-site septic/drainfield

If dosed with a pump, do the pumps include run-time meters?

Year of Construction

Year of Rehabilitation

Is an effluent meter installed?

Inspection Requirements

Power:

Power Source

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source

Is site irrigated?

Indicate irrigated areas on site map

Is irrigation source separate from domestic source?

Irrigation water source

Is backflow prevention included on irrigation?

Are water meters installed?

Describe meter location(s)

Is water source treated?

Type of treatment

Is water source disinfected?

Type of disinfection

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone/wooden	The Bozeman Trail
	1	steel posts	Thae Great Inland Seaway

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	Yes		2
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Fair: Moderately rough surface, cracking 3/8" to 3" wide, some network cracking, rut depths 1"-2".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	2, .7

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/11/2013	Facility Status	Year-Round
Facility Name	Conrad <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	339+0.361	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind	W	Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	31
Truck	18

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	3
Interior Waste Receptacles	Yes	8
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	2
Picnic Tables (Non-ADA)	Yes	6
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					(4),(4)
Sinks					(4),(4)
Toilets, Flush Type					(4), (4)
Urinals					4
Vault Toilets					

Water System:

Water Source	Municipal System
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wall mount	Welcome to Russell Country

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	1
Playground Areas	No
Seating (not picnic tables)	5
Security Features (Interior)	Yes
Security Features (Exterior)	Yes
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	Yes
Wi-Fi	Yes
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	2
SB	2

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/29/2013
Facility Name	Culbertson (copy/paste from Database)
MDT District	Glendive
Facility Type	MDT Rest Area
Route	N-1
Reference Post	645+0.156
Roadbed	E

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	No
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	23
Truck	12

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	13
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	2	steel posts	Join the Voyage of Discovery
			Coal, Oil, and Natural Gas

	Yes	Count
Drinking Fountains	Yes	1
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	1
NB	0.25
EB	0.2

Is highway signage provided at the rest area ramp locations? Yes WB 0.2

Sign Condition Good: Clear and legible.

Comments/Unique Issues or Features

Some additional signage would be good here. Plenty of room for a Pet Area. Advanced hiway signage would be a great addition.

Photo Numbers 100-0075 thru 100-0105

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/23/2013
Facility Name	Custer (east)
	(copy/paste from Database)
MDT District	Billings
Facility Type	MDT Rest Area
Route	I-94
Reference Post	038+0.234
Roadbed	E

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Mountainous
Adjoining Vegetation (if rural)	Forest
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	along the edge of the moun
Observable constraints to expansion?	Yes
If Yes, explain	Quite steep already.

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	14
Truck	10

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	7
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	9
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Junction of Big Horn and Yellowstone Rivers
	1	steel posts	The Great Highway of the Northwest: The Yellowstone

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	1
Playground Areas	No
Seating (not picnic tables)	4
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Fair: Fair appearance, receptacles without lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	EB	2, .5

Is highway signage provided at the rest area ramp locations?

Sign Condition

Comments/Unique Issues or Features

garbage cans were nice, with lids, but large dumpster was overflowing and rather unsightly. Sidewalks are quite steep for disabled

si

100-0001 thru 100-0038

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/23/2013	Facility Status	Seasonal
Facility Name	Custer (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-94	Year of most recent rehab	
Reference Post	041+0.258	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	among the broken hills/mou
Site Topography	Mountainous		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	not as steep as Custer_EB

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	17
Truck	11

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		12
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		2
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		13
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Buffalo Country
	1	wooden posts	Junction of the Big Horn and Yellowstone Rivers
	1	steel posts	The Great Highway of the Northwest: The Yellowstone

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	Yes		2
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/10/2013	Facility Status	Seasonal
Facility Name	Cut Bank <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	
Facility Type	City Park Rest Area	Year of original construction	
Route	N-1	Year of most recent rehab	
Reference Post	255+0.649	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind	W	Proximity to environmentally sensitive areas?	No
Setting	Urban	If Yes, explain	
Site Topography	Flat	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	Yes
Distance(ft) to Facility		If Yes, explain	in city park.
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	28
Truck	0

Site Features:

	#	
Exterior Waste Receptacles	No	
Interior Waste Receptacles	No	
Picnic Structures	No	
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	8
Perimeter Fencing	No	NA

Wastewater System:

Treatment System		
If on-site septic/drainfield		
If dosed with a pump, do the pumps include run-time meters?		
Year of Construction		
Year of Rehabilitation		
Is an effluent meter installed?		
Inspection Requirements		

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	1			
Sinks	1	1			
Toilets, Flush Type	2	4			
Urinals	2				
Vault Toilets					

mens dryer is broken.

Water System:

Water Source		
Is site irrigated?		
Indicate irrigated areas on site map		
Is irrigation source separate from domestic source?		
Irrigation water source		
Is backflow prevention included on irrigation?		
Are water meters installed?		
Describe meter location(s)		
Is water source treated?		
Type of treatment		
Is water source disinfected?		
Type of disinfection		

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	Yes	1
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Poor: Ponding or large areas of water retention.	
Pavement Type	Other	gravel
Pavement Condition	Poor: Rough surface, cracks > 3" wide, well-defined network cracking, rutting depths > 2".	
Striping Quality	Poor: Non-functional and deteriorated.	

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.	
Xeriscaping used for landscape?	No	
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.	
Sidewalks	Good: Adequate connectivity, minimal deterioration.	
Site Signage	Fair: Necessities are signed, fair appearance.	
Exterior Waste Receptacle Condition	Poor: Poor appearance, receptacles without lids, or no recept	

Structure(s):

Floors	Good: No cracks or separation, level.	
Interior Lighting	Fair: Sufficient illumination, older fixtures.	
Paint	Excellent: New paint, excellent condition.	
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.	
Siding	Excellent: New siding, excellent condition.	
Facility Ventilation	No Odor Problem	

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	Direction	Distance (mi)
	EB	1, 0.1
WB	1, 0.1	

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

No garbage cans at all on site.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/12/2013	Facility Status	Year-Round
Facility Name	Dearborn (north) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	239+0.704	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	20
Truck	24

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	2
Interior Waste Receptacles	Yes	8
Picnic Structures	Yes	4
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	3	3		2	
Sinks	3	3		2	
Toilets, Flush Type	3	3		2	
Urinals	3				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		2	4x5

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wall mount	Dearborn's River
	1	wall mount	Continuing the Journey
	1	wall mount	Cliffs High and Steep
	1	wall mount	Join the Voyage of Discovery

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	1
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	Yes
Security Features (Exterior)	Yes
Telephones	No
Vending Machines	1
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

all restrooms are ada. Need for more garbage cans. Serviced 3 times per day during summer months.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/12/2013
Facility Name	Dearborn (south) (copy/paste from Database)
MDT District	Great Falls
Facility Type	MDT Rest Area
Route	I-15
Reference Post	239+0.735
Roadbed	S

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Rolling
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	No
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	20
Truck	24

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	2
Interior Waste Receptacles	Yes	8
Picnic Structures	Yes	4
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	3	3		2	
Sinks	3	3		2	
Toilets, Flush Type	3	3		2	
Urinals	3				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases		2	4x5

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wall mount	Cliffs High and Steep
	1	wall mount	Join the Voyage of Discovery
	1	wall mount	Bighorned Animals
	1	wall mount	neare than the route we Came

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	Yes	
Security Features (Exterior)	Yes	
Telephones	No	
Vending Machines	Yes	1
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

5

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/9/2013	Facility Status	Year-Round
Facility Name	Dena Mora (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	004+0.622	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	forest
Site Topography	Flat		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	23
Truck	15

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	8
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	Yes	3
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	3	3			2
Sinks	3	3			2
Toilets, Flush Type	3	3			2
Urinals	4				1
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	3x4
		1	2x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	Join the Voyage of Discovery
	1	steel posts	A Wonderful Piece of Engineering: The Mullan Road
	1	steel posts	A Lost World Precambrian Belt Rocks

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	2
Playground Areas	No	
Seating (not picnic tables)	Yes	6
Security Features (Interior)	Yes	
Security Features (Exterior)		
Telephones	Yes	1
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	No	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

a few gophers at this site.

Photo Numbers 100-0137 thru 100-0164

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/9/2013	Facility Status	Year-Round
Facility Name	Dena Mora (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	004+0.748	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	forest
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	24
Truck	11

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	8
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	3	3			2
Sinks	3	3			2
Toilets, Flush Type	3	3			2
Urinals	3				1
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		1	4x5

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	A Wonderful Piece of Engineering: The Mullan Road
	1	steel posts	A Lost World Precambrian Belt Rocks

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	2
Playground Areas	No
Seating (not picnic tables)	6
Security Features (Interior)	Yes
Security Features (Exterior)	
Telephones	1
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

many gophers in the lawn.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/15/2013	Facility Status	Seasonal
Facility Name	Divide (north) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	108+0.691	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	18
Truck	10

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	8
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	2			
Automatic Manual Sinks	1				
Toilets, Flush Type	1	2			
Urinals	2	3			
Vault Toilets	1				

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x3
		1	3x4
		2	4x4
		1	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	The Humbug Spires Primitive Area
	1	steel posts	Join the Voyage of Discovery
	1	wall mount	Lynch-Micone Rest Area

	Count
Drinking Fountains	Yes 1
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	Yes 4
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	Yes N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Fair: Fair appearance, receptacles without lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	NB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/15/2013	Facility Status	Seasonal
Facility Name	Divide (south) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	108+0.735	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	18
Truck	10

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)		
Picnic Tables (Non-ADA)	Yes	8
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			(1,1)
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		2	4x4
		1	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	Join the Voyage of Discovery

	Yes	Count
Drinking Fountains	Yes	1
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	Yes	4
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Fair: Fair appearance, receptacles without lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	1, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/11/2013
Facility Name	Dupuyer (copy/paste from Database)
MDT District	Great Falls
Facility Type	Parking Area
Route	P-3
Reference Post	076+0.000
Roadbed	S

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	W
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	Stream/River
Distance(ft) to Facility	1500
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	creek/wetland areas to South
Observable constraints to expansion?	Yes
If Yes, explain	creek to the South.

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	7
Truck	3

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		4
Interior Waste Receptacles	No		
Picnic Structures	Yes		1
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		4
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets	1	1			

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	3x4
		1	2x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone/wood posts	Dupuyer
	1	wood posts	Chief Mountain

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	Yes 1
Playground Areas	No
Seating (not picnic tables)	Yes 1
Security Features (Interior)	No
Security Features (Exterior)	No
Telephones	No
Vending Machines	No
Trails	No N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	No
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Poor: Unsafe illumination, antiquated fixtures, or no interior lighting provided.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Poor: Leaking and damaged, or no plumbing fixtures provided.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	SB	0
	NB	0

Is highway signage provided at the rest area ramp locations?

Sign Condition

Comments/Unique Issues or Features

No striped truck spaces or "wheelchair" disabled emblem. 2 of the 4 garbage receptacles have 3 doors each, the other 2 have single doors.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/18/2013	Facility Status	Year-Round
Facility Name	Emigrant <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-11	Year of most recent rehab	
Reference Post	023+0.759	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	yellowstone river to West
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	100	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	yellowstone river to West
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	20
Truck	6

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	8
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers		1			
Automatic					
Manual	2	1			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	Hepburn's Mesa
	1	steel posts	Honoring All Our Brothers and Sisters
	1	wooden posts	The Absaroka-Beartooth Wilderness

	Count
Drinking Fountains	Yes 1
Interactive Monitors	No
Pet Areas	Yes 1
Playground Areas	No
Seating (not picnic tables)	Yes 4
Security Features (Interior)	
Security Features (Exterior)	
Telephones	Yes 1
Vending Machines	No
Trails	No N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	1
NB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/17/2013
Facility Name	Ennis (copy/paste from Database)
MDT District	Butte
Facility Type	City Park Rest Area
Route	P-13
Reference Post	048+0.649
Roadbed	N

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Urban
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	Lake/Pond
Distance(ft) to Facility	300
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	Pond in city park
Observable constraints to expansion?	Yes
If Yes, explain	city park, pond

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	30
Truck	0

Site Features:

	#	
Exterior Waste Receptacles	Yes	2
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	9
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual	1	1			
Sinks	2	2			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	Yes	
Seating (not picnic tables)	Yes	8
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	Yes	1
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Is highway signage provided at the rest area ramp locations?

Sign Condition

Comments/Unique Issues or Features

Very nice city park.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/29/2013	Facility Status	Seasonal
Facility Name	Flowing Wells <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-57	Year of most recent rehab	
Reference Post	248+0.573	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	10
Truck	0

Site Features:

	#	
Exterior Waste Receptacles	Yes	7
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Fort Peck Dam and Lake
	1	wooden posts	Dinosaurs
	1	steel posts	Join the Voyage of Discovery

	Count	
Drinking Fountains	Yes	1
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1
WB	1

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

No striping on parking lot. Auto spaces count is estimated. There are no "REST AREA" signs at the turn-ins.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington	Land Area (Acres)	0
Date:	7/3/2013	Facility Status	Seasonal
Facility Name	Gold Creek (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	169+0.402	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	wetland to W
Site Topography	Flat		
Adjoining Vegetation (if rural)	Brush		
Water Features	Wetland		
Distance(ft) to Facility	300	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	wetland to W
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	19
Truck	11

Site Features:

	#	
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	13
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System

If on-site septic/drainfield

If dosed with a pump, do the pumps include run-time meters?

Year of Construction

Year of Rehabilitation

Is an effluent meter installed?

Inspection Requirements

Power:

Power Source

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets				1	

Water System:

Water Source

Is site irrigated?

Indicate irrigated areas on site map

Is irrigation source separate from domestic source?

Irrigation water source

Is backflow prevention included on irrigation?

Are water meters installed?

Describe meter location(s)

Is water source treated?

Type of treatment

Is water source disinfected?

Type of disinfection

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x3
		1	4x8
		1	4x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	4	steel posts	first of the northern transcontinental railroads.
	1	stone	first discovery of gold in montana.

	Count	
Drinking Fountains	Yes	0
Interactive Monitors	No	
Pet Areas	Yes	2
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids. full up

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Fair: Functional, some maintenance required.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Fair: Sound, weatherproof, some wear and tear.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2,.5

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Good: Clear and legible.

Comments/Unique Issues or Features

each restroom has 1 changing table. WB consistantly busier than EB. One guy that travels MT a lot says that sites are too busy.

Photo Numbers 101-0051 thru 101-0082

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington
Date:	7/3/2013
Facility Name	Gold Creek (west) (copy/paste from Database)
MDT District	Missoula
Facility Type	MDT Rest Area
Route	I-90
Reference Post	167+0.411
Roadbed	W

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	Wetland
Distance(ft) to Facility	300
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	wetland area to the E.
Observable constraints to expansion?	Yes
If Yes, explain	site topography to N & E.

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	17
Truck	10

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		6
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		2
Picnic Tables (ADA)	No		0
Picnic Tables (Non-ADA)	Yes		12
Perimeter Fencing	Yes		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1	0			
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	4x8
		1	3x4
		1	2x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone	First Discovery of Gold in Montana

	Yes	No	Count
Drinking Fountains	Yes		1
Interactive Monitors	No		
Pet Areas	Yes		2
Playground Areas	No		0
Seating (not picnic tables)	Yes		4
Security Features (Interior)	No		
Security Features (Exterior)	No		
Telephones	No		
Vending Machines	No		
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Fair: Fair appearance, receptacles without lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Fair: Functional, some maintenance required.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Fair: Sound, weatherproof, some wear and tear.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	Direction	Distance (mi)
		WB

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Good: Clear and legible.

Comments/Unique Issues or Features

historical marker on Interstate, signage faded. Include in RA projects. Both m/w has a changing table. Drinking fountain is non-f

Photo Numbers 101-0007 thru 101-0049

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/18/2013	Facility Status	Year-Round
Facility Name	Greycliff (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	381+0.021	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind Setting Site Topography Adjoining Vegetation (if rural) Water Features Distance(ft) to Facility Site floodplain maps available? Is facility in floodplain?	Proximity to environmentally sensitive areas? If Yes, explain																				
<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="height: 20px;"></td></tr> </table>											<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="height: 20px;"></td></tr> </table>										
	Observable constraints to expansion? If Yes, explain																				
	<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="height: 20px;"></td></tr> </table>																				

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	<input type="text"/>
Auto (Non-ADA)	<input type="text"/>
Truck	<input type="text"/>

Site Features:

	#
Exterior Waste Receptacles	<input type="text"/>
Interior Waste Receptacles	<input type="text"/>
Picnic Structures	<input type="text"/>
Picnic Tables (ADA)	<input type="text"/>
Picnic Tables (Non-ADA)	<input type="text"/>
Perimeter Fencing	NA

Wastewater System:

Treatment System	<input type="text"/>
If on-site septic/drainfield	<input type="text"/>
If dosed with a pump, do the pumps include run-time meters?	<input type="text"/>
Year of Construction	<input type="text"/>
Year of Rehabilitation	<input type="text"/>
Is an effluent meter installed?	<input type="text"/>
Inspection Requirements	<input type="text"/>

Power:

Power Source	<input type="text"/>
--------------	----------------------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	<input type="text"/>				
Sinks	<input type="text"/>				
Toilets, Flush Type	<input type="text"/>				
Urinals	<input type="text"/>				
Vault Toilets	<input type="text"/>				

Water System:

Water Source	<input type="text"/>
Is site irrigated?	<input type="text"/>
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	<input type="text"/>
Irrigation water source	<input type="text"/>
Is backflow prevention included on irrigation?	<input type="text"/>
Are water meters installed?	<input type="text"/>
Describe meter location(s)	<input type="text"/>
Is water source treated?	<input type="text"/>
Type of treatment	<input type="text"/>
Is water source disinfected?	<input type="text"/>
Type of disinfection	<input type="text"/>

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>

	Count
Drinking Fountains	Yes
Interactive Monitors	Yes
Pet Areas	Yes
Playground Areas	Yes
Seating (not picnic tables)	Yes
Security Features (Interior)	Yes
Security Features (Exterior)	Yes
Telephones	Yes
Vending Machines	Yes
Trails	Yes
Cell Phone/Satellite Coverage	Yes
Wi-Fi	Yes
Other	Yes

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)

Is highway signage provided at the rest area ramp locations?

Sign Condition Excellent: New highway signage.

Comments/Unique Issues or Features

Under Construction

Photo Numbers 100-0045 thru 100-0047

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/18/2013
Facility Name	Greycliff (west)
	(copy/paste from Database)
MDT District	Billings
Facility Type	MDT Rest Area
Route	I-90
Reference Post	380+0.963
Roadbed	W

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	
Site Topography	
Adjoining Vegetation (if rural)	
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	
If Yes, explain	
Observable constraints to expansion?	
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	
Auto (Non-ADA)	
Truck	

Site Features:

	#
Exterior Waste Receptacles	
Interior Waste Receptacles	
Picnic Structures	
Picnic Tables (ADA)	
Picnic Tables (Non-ADA)	
Perimeter Fencing	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	Yes	
Interactive Monitors	Yes	
Pet Areas	Yes	
Playground Areas	Yes	
Seating (not picnic tables)	Yes	
Security Features (Interior)	Yes	
Security Features (Exterior)	Yes	
Telephones	Yes	
Vending Machines	Yes	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	Yes	N/A
Other	Yes	

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

Direction Distance (mi)

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)

Is highway signage provided at the rest area ramp locations?

Sign Condition Excellent: New highway signage.

Comments/Unique Issues or Features

Under Construction.

Photo Numbers 100-0048 thru 100-0052

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/19/2013	Facility Status	Seasonal
Facility Name	Hardin (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	476+0.594	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	29
Truck	8

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	8
Picnic Tables (Non-ADA)	Yes	2
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	Steel posts	The Highway Where the Country Greets the Stranger
	1	stone/wooden	Buffalo Country

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	2
Playground Areas	No
Seating (not picnic tables)	1
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/19/2013	Facility Status	Seasonal
Facility Name	Hardin (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	476+0.463	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	4
Auto (Non-ADA)	14
Truck	13

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	8
Picnic Tables (Non-ADA)	Yes	2
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	The Highway Where the Country Greets the Stranger
	1	stone/wooden	Buffalo Cuntry
	1	wall mount	Christiansen Graham Rest Area.

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	2
Playground Areas	No
Seating (not picnic tables)	3
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Any irrigated grass looks good. Any not irrigated in drying condition. Numerous complaints from maintenance workers that air flus

Photo Numbers 100-0220 thru 100-0241

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/20/2013	Facility Status	Year-Round
Facility Name	Harlowton <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	P-14	Year of most recent rehab	
Reference Post	100+0.971	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	4
Auto (Non-ADA)	22
Truck	16

Site Features:

		#
Exterior Waste Receptacles	Yes	21
Interior Waste Receptacles	Yes	8
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	6
Picnic Tables (Non-ADA)	No	0
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	4	4			
Sinks	4	4			
Toilets, Flush Type	4	4			(1,1)
Urinals	4				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	3x4
		1	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	1
Playground Areas	No
Seating (not picnic tables)	6
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	1
EB	1

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Very nicely kept up.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/23/2013	Facility Status	Year-Round
Facility Name	Hathaway (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-94	Year of most recent rehab	
Reference Post	113+0.787	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	4
Auto (Non-ADA)	11
Truck	11

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	9
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	2	2			
Toilets, Flush Type	2	4			
Urinals	2				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		2	4x4
		1	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	3	wooden posts	Rosebud
			Cattle Brands
			The Miles City Air Force Station
	2	steel posts	The Hell Creek Formation., Join the Voyage of Discover

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	3
Playground Areas	No	
Seating (not picnic tables)	Yes	1
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Some xeriscaping in use, as the soil is so poor and very dry.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/23/2013	Facility Status	Year-Round
Facility Name	Hathaway (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-94	Year of most recent rehab	
Reference Post	112+0.400	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	River to North
Site Topography	Flat		
Adjoining Vegetation (if rural)	Brush		
Water Features	Stream/River		
Distance(ft) to Facility	3000	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	Steep deep riverbank to North
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	4
Auto (Non-ADA)	8
Truck	12

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		9
Interior Waste Receptacles	No		
Picnic Structures	Yes		6
Picnic Tables (ADA)	Yes		1
Picnic Tables (Non-ADA)	Yes		12
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	3			
Urinals	1				
Vault Toilets				6	

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		1	4x8
		2	4x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone/wood	Rosebud
	1	wooden posts	Cattle Brands

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	No		
Pet Areas	Yes		3
Playground Areas	No		
Seating (not picnic tables)	No		
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction		Distance (mi)
WB		2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Both restrooms locked and "Out of Order". There are 6 porta-potties set up on site. Drinking fountains are also bagged and taped.

Photo Numbers 100-0154 thru 100-0184

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/15/2013	Facility Status	Availability Unknown
Facility Name	Homestake (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	234+0.937	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	Wetland to South
Site Topography	Flat		
Adjoining Vegetation (if rural)	Brush		
Water Features	Wetland		
Distance(ft) to Facility	150	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	Wetland to South
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	13
Truck	10

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	4
Interior Waste Receptacles	No		
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets					3

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	Homestake Pass
	1	steel posts	The Great Divide Trophy

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	No
Security Features (Exterior)	
Telephones	
Vending Machines	No
Trails	No
Cell Phone/Satellite Coverage	Yes
Wi-Fi	No
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/15/2013	Facility Status	Availability Unknown
Facility Name	Homestake (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	234+0.928	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	wetland to North
Site Topography	Flat		
Adjoining Vegetation (if rural)	Brush		
Water Features	Wetland		
Distance(ft) to Facility	150	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	Wetland to North
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	13
Truck	10

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	4
Interior Waste Receptacles	No		
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets					3

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1		
	1	steel posts	Homestake Pass
		steel posts	The Great Divide Trophy

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction		Distance (mi)
WB		2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/23/2013	Facility Status	Year-Round
Facility Name	Hysham (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-94	Year of most recent rehab	
Reference Post	064+0.796	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	15
Truck	4

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	12
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	4			
Urinals	2				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		1	2x5

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Jedediah Smith
	1	wooden posts	Yellowstone River Trading Posts

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	4
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Landscaping grasses in tough shape. Mostly weeds. Mechanical/storage room was unlocked. I locked upon leaving. Swallow nest

Photo Numbers

100-0067 thru 100-0091

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/23/2013	Facility Status	Year-Round
Facility Name	Hysham (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-94	Year of most recent rehab	
Reference Post	064+0.847	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	possibly a small creek to N
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Brush		
Water Features	Stream/River		
Distance(ft) to Facility	300	Observable constraints to expansion?	No
Site floodplain maps available?		If Yes, explain	
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	16
Truck	4

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	12
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	4			
Urinals	2				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		1	2x5

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Jedediah Smith

	Count
Drinking Fountains	2
Interactive Monitors	No
Pet Areas	1
Playground Areas	No
Seating (not picnic tables)	5
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

some xeriscaping in use, as this country is so dry and poor soil conditions exist.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/15/2013
Facility Name	Jefferson City (north) (copy/paste from Database)
MDT District	Butte
Facility Type	MDT Rest Area
Route	I-15
Reference Post	177+0.506
Roadbed	N

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Rolling
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	Yes
If Yes, explain	Interstate to West, Frontage

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	10
Truck	6

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		4
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		2
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		8
Perimeter Fencing	Yes		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers		stone/wooden	FREIGHTERS
		steel posts	Elkhorn Mountain Volcanoes

	Yes	No	Count
Drinking Fountains	Yes		1
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	No		
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Direction	Distance (mi)
SB	2, .5

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/15/2013	Facility Status	Seasonal
Facility Name	Jefferson City (south) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	178+0.233	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	creek in between parking lot
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	50	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	Interstate to E., stream through
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	10
Truck	4

Site Features:

	#	
Exterior Waste Receptacles	Yes	5
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	6
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System

If on-site septic/drainfield

If dosed with a pump, do the pumps include run-time meters?

Year of Construction

Year of Rehabilitation

Is an effluent meter installed?

Inspection Requirements

Power:

Power Source

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source

Is site irrigated?

Indicate irrigated areas on site map

Is irrigation source separate from domestic source?

Irrigation water source

Is backflow prevention included on irrigation?

Are water meters installed?

Describe meter location(s)

Is water source treated?

Type of treatment

Is water source disinfected?

Type of disinfection

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone/wood	Time was when ox and muls\e...
	1	steel posts	Elkhorn Mountain Volcanoes

	Count	
Drinking Fountains	Yes	1
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/28/2013	Facility Status	Seasonal
Facility Name	Lewistown <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	City Park Rest Area	Year of original construction	
Route	N-57	Year of most recent rehab	
Reference Post	080+0.399	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	8
Truck	0

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	4
Interior Waste Receptacles	Yes	3
Picnic Structures	Yes	5
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	10
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	On-Site Septic/Drainfield
If on-site septic/drainfield	Gravity System
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	On-Site Well
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	No
Irrigation water source	On-Site Well
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	4	steel posts	Lewistown Army Airfield
			The Nez Perce Conflict
			Trading Post at Lewistown
			The Exile

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	Yes 6
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	Yes N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Is highway signage provided at the rest area ramp locations?

Sign Condition

Comments/Unique Issues or Features

Site is part of the Kiwanis Club Campground and there are numerous RV parking/camping sites. Auto spaces count is estimated, a

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/16/2013	Facility Status	Year-Round
Facility Name	Lima <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	015+0.219	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?		<div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	28
Truck	19

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	6
Interior Waste Receptacles	Yes	8
Picnic Structures	Yes	4
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	No	NA

Wastewater System:

Treatment System

If on-site septic/drainfield

If dosed with a pump, do the pumps include run-time meters?

Year of Construction

Year of Rehabilitation

Is an effluent meter installed?

Inspection Requirements

Power:

Power Source

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	3	3		2	
Sinks	3	3		2	
Toilets, Flush Type	3	3		2	
Urinals	3				
Vault Toilets					

Water System:

Water Source

Is site irrigated?

Indicate irrigated areas on site map

Is irrigation source separate from domestic source?

Irrigation water source

Is backflow prevention included on irrigation?

Are water meters installed?

Describe meter location(s)

Is water source treated?

Type of treatment

Is water source disinfected?

Type of disinfection

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		2	4x5

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	The Montana Road
	1	steel posts	The Tendoy Mountains
	1	wooden posts	Howdy Everyone! Gglad to See You

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	Yes	
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Excellent: New roofing, excellent condition.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	1.5, .5
SB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

All restrooms appear to be ada. Unisex restrooms are marked w/the handicapped logo.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/18/2013	Facility Status	Year-Round
Facility Name	Livingston (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	326+0.522	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	17
Truck	13

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	5
Interior Waste Receptacles	No		
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				4	

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Haven for Great Herds of Wildlife
	1	wooden posts	Free Flowing River Shapes History
	1	wooden posts	Native American Hunting Grounds
	1	wooden posts	Legacy of Lewis and Clark/Opening the Yellowstone Cd

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	0.5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfaf
Date:	7/24/2013
Facility Name	Locate (copy/paste from Database)
MDT District	Glendive
Facility Type	Parking Area
Route	P-2
Reference Post	043+0.607
Roadbed	W

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	Stream/River
Distance(ft) to Facility	1500
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	Creek/wetland 1/4 mi. or so
Observable constraints to expansion?	Yes
If Yes, explain	Creek some distance away

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	8
Truck	6

Site Features:

	Yes/No	#
Exterior Waste Receptacles	Yes	2
Interior Waste Receptacles	Yes	2
Picnic Structures	No	
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				2	

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		2	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	After the Roundup

	Yes/No	Count
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1
WB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

No striping on pavement. All vehicle parking places are estimates. There is one spot designated for handicap parking with signage

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington	Land Area (Acres)	0
Date:	7/3/2013	Facility Status	Availability Unknown
Facility Name	Lolo Pass <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	Other	Year of original construction	
Route	N-93	Year of most recent rehab	
Reference Post	000+0.000	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind	NW	Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	creek/wetland
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Forest		
Water Features	Stream/River		
Distance(ft) to Facility	300	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	creek/wetland
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	56
Truck	15

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	1
Interior Waste Receptacles	Yes	3
Picnic Structures	Yes	1
Picnic Tables (ADA)	Yes	2
Picnic Tables (Non-ADA)	Yes	8
Perimeter Fencing	No	NA

Wastewater System:

Treatment System

If on-site septic/drainfield

If dosed with a pump, do the pumps include run-time meters?

Year of Construction

Year of Rehabilitation

Is an effluent meter installed?

Inspection Requirements

Power:

Power Source

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers				1	
Sinks	2	2		1	
Toilets, Flush Type	1 ada	1 ada	3	1 ada	3
Urinals	2				
Vault Toilets					

Water System:

Water Source pumped system

Is site irrigated?

Indicate irrigated areas on site map

Is irrigation source separate from domestic source?

Irrigation water source

Is backflow prevention included on irrigation?

Are water meters installed?

Describe meter location(s)

Is water source treated?

Type of treatment

Is water source disinfected?

Type of disinfection

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	4x8
		1	4x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	clearwater national forest fire danger today.
	2	stone	lolo pass visitor center.
	1	log	lolo summit.

	Yes	Count
Drinking Fountains	Yes	1
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	13
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	Yes	1
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	No	N/A
Wi-Fi	Yes	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	0.5
WB	1, .25

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/16/2013	Facility Status	Availability Unknown
Facility Name	Lost Trail Pass <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	Other	Year of original construction	2001
Route	N-7	Year of most recent rehab	
Reference Post	000+0.017	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	forested land
Site Topography	Flat		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	21
Truck	6

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	14
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	On-Site Septic/Drainfield
If on-site septic/drainfield	Gravity System
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	2001
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Generator
	Solar

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	3x4
		3	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Salmon River Scenic Byway. Idaho property
	1	wooden posts	L&C, Lost Trail Pass, Rugged Mountain Crossing. USFS

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	1
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	No	N/A
Wi-Fi	No	N/A
Other	No	

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	2	2			
Sinks	2	2			
Toilets, Flush Type	1,1ada	1,1ada			2
Urinals	1				
Vault Toilets					

Water System:

Water Source	Spring
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	No
Irrigation water source	Spring
Is backflow prevention included on irrigation?	
Are water meters installed?	No
Describe meter location(s)	
Is water source treated?	Yes
Type of treatment	
Is water source disinfected?	Yes
Type of disinfection	Chlorine

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	1, .25
NB	1, .25
WB	1, .25

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Good: Clear and legible.

Comments/Unique Issues or Features

Photo Numbers 100-0209 thru 100-0255

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/12/2013
Facility Name	Lyons Creek (north) (copy/paste from Database)
MDT District	Great Falls
Facility Type	Parking Area
Route	I-15
Reference Post	221+0.933
Roadbed	N

Land Area (Acres)	0
Facility Status	Year-Round
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Brush
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	creek and mountains to east
Observable constraints to expansion?	Yes
If Yes, explain	railroad and creek to East,

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	24
Auto (Non-ADA)	2
Truck	3

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	3
Interior Waste Receptacles	No	No	
Picnic Structures	No	No	
Picnic Tables (ADA)	No	No	
Picnic Tables (Non-ADA)	No	No	
Perimeter Fencing	No	NA	

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone	In Memory of Donald G Nutter...
	1	steel posts	A Perfect Defile
	1	wooden posts	The Montana Central Railroad

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	No
Security Features (Exterior)	
Telephones	
Vending Machines	No
Trails	No
Cell Phone/Satellite Coverage	Yes
Wi-Fi	No
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	0.5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/12/2013	Facility Status	Year-Round
Facility Name	Lyons Creek (south) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	222+0.053	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	mountains to West.
Site Topography	Flat		
Adjoining Vegetation (if rural)	Brush		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	Yes
Is facility in floodplain?		If Yes, explain	Mountains/rock to West, In

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	24
Truck	3

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		3
Interior Waste Receptacles	No		
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	A Perfect Defile
	1	wooden posts	The Central Montana Railroad

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	SB	0.5

Is highway signage provided at the rest area ramp locations?

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfh	Land Area (Acres)	0
Date:	7/30/2013	Facility Status	Seasonal
Facility Name	Malta <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	City Park Rest Area	Year of original construction	
Route	N-1	Year of most recent rehab	
Reference Post	471+0.811	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Urban	If Yes, explain	Milk River to the North
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	600	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	Milk River to the North, Bas
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	8
Truck	0

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	1
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	Yes	1
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count
Drinking Fountains	1
Interactive Monitors	
Pet Areas	1
Playground Areas	
Seating (not picnic tables)	
Security Features (Interior)	
Security Features (Exterior)	
Telephones	
Vending Machines	
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	No

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1
WB	1
NB	0
SB	0

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Part of a nice park. No advanced signage from the NB or SB hiways. Trafton Trail begins just North of the site but is not part of it.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/29/2013	Facility Status	Year-Round
Facility Name	Mosby <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-57	Year of most recent rehab	
Reference Post	159+0.810	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	9
Truck	6

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	10
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	3	3			2
Sinks	3	3			2
Toilets, Flush Type	3	3			2
Urinals	3				1
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		2	4x8

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	3	wooden posts	Fort Musselshell
			Kerchival City
			Bearpaw Shale and the Inland Ocean
	1	wall mount	James E McKenna

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	6
Security Features (Interior)		
Security Features (Exterior)	Yes	
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage		N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1
WB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/29/2013
Facility Name	Plentywood (copy/paste from Database)
MDT District	Glendive
Facility Type	City Park Rest Area
Route	N-22
Reference Post	042+0.581
Roadbed	S

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	No
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	24
Truck	0

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	4
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	Yes	1
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	1	1			
Toilets, Flush Type	2	2			
Urinals	1	2			
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	4x5

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	The Fort Union Formation and the Ice Age

	Count
Drinking Fountains	1
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	No
Cell Phone/Satellite Coverage	Yes
Wi-Fi	No
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Fair: Watertight, some maintenance needed.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	0.5
EB	0.5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Parking space count is estimated. No striping. Drinking fountain is non-functional.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/9/2013	Facility Status	Year-Round
Facility Name	Quartz Flats (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	058+0.027	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind	NW	Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	forest
Site Topography	Mountainous		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	26
Truck	11

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	12
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	On-Site Septic/Drainfield
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	4			
Urinals	2				
Vault Toilets				1	

Water System:

Water Source	On-Site Well
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	No
Irrigation water source	On-Site Well
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	4x8
		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	A Wonderful Piece of Engineering: The Big Side Cut

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	3
Playground Areas	No	
Seating (not picnic tables)	Yes	3
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage		N/A
Wi-Fi		N/A
Other		

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	1.75, .5, .3

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

gopher holes in lawn area.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/9/2013	Facility Status	Year-Round
Facility Name	Quartz Flats (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	058+0.219	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	clark fork river about 1/4 mi
Site Topography	Mountainous		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	Yes
Is facility in floodplain?		If Yes, explain	clark fork river and riverbar

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	5
Auto (Non-ADA)	25
Truck	10

Site Features:

	#	
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	3
Picnic Tables (ADA)	Yes	12
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	4			
Urinals	2				
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	4x8
		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	3
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage		N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Excellent: New roofing, excellent condition.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
WB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

gopher holes in lawn area.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/9/2013	Facility Status	Seasonal
Facility Name	Ravalli Hill (north) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	Other	Year of original construction	
Route	N-5	Year of most recent rehab	
Reference Post	029+0.145	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	11
Truck	3

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		3
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		2
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		2
Perimeter Fencing	Yes		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Poor: Plants/grass are not alive.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	0.3

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition

Comments/Unique Issues or Features

Bear-proof exterior garbage cans. No "REST AREA" signage.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/9/2013
Facility Name	Ravalli Hill (south)
	(copy/paste from Database)
MDT District	Missoula
Facility Type	Other
Route	N-5
Reference Post	029+0.268
Roadbed	S

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Rolling
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	No
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	10
Truck	3

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	2
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	1
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	1
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

toilets possibly ada

Water System:

Water Source	On-Site Well
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Poor: Plants/grass are not alive.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	SB	0.3

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Excellent: New highway signage.

Comments/Unique Issues or Features

No "REST AREA" signage at all.

Photo Numbers 100-0001 thru 100-0019

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/17/2013
Facility Name	Raynolds Pass (copy/paste from Database)
MDT District	Butte
Facility Type	MDT Rest Area
Route	P-13
Reference Post	015+0.877
Roadbed	S

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Rural
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	Stream/River
Distance(ft) to Facility	300
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	Yes
If Yes, explain	Madison river to West
Observable constraints to expansion?	Yes
If Yes, explain	Madison river to West. Hig

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	11
Truck	9

Site Features:

	Yes/No	#
Exterior Waste Receptacles	Yes	5
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	Yes	4
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4
		1	3x6

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	A Tough Business

	Count
Drinking Fountains	1
Interactive Monitors	No
Pet Areas	1
Playground Areas	No
Seating (not picnic tables)	3
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Fair: Functional, some maintenance/cleaning required.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Fair: Some maintenance required for isolated areas.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	NB	1
	SB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

drinking fountain is non-functional. Outdoor spigot in photo also not functional.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/16/2013	Facility Status	Availability Unknown
Facility Name	Red Rocks (north) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	033+0.843	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	13
Truck	10

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	6
Interior Waste Receptacles	No	No	
Picnic Structures	No	No	
Picnic Tables (ADA)	No	No	
Picnic Tables (Non-ADA)	No	No	
Perimeter Fencing	No	NA	

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone/wood	The Montana-Utah Road

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	No
Security Features (Exterior)	No
Telephones	No
Vending Machines	No
Trails	No
Cell Phone/Satellite Coverage	Yes
Wi-Fi	No
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	1, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/16/2013	Facility Status	Availability Unknown
Facility Name	Red Rocks (south) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	033+0.817	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	13
Truck	10

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	6
Interior Waste Receptacles	No	No	
Picnic Structures	No	No	
Picnic Tables (ADA)	No	No	
Picnic Tables (Non-ADA)	No	No	
Perimeter Fencing	No	NA	

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	stone/wood	The Montana-Utah Road

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	No
Security Features (Interior)	No
Security Features (Exterior)	No
Telephones	No
Vending Machines	No
Trails	No
Cell Phone/Satellite Coverage	Yes
Wi-Fi	No
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	1, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/18/2013	Facility Status	Seasonal
Facility Name	Roberts <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	1968
Route	P-28	Year of most recent rehab	1982
Reference Post	084+0.590	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	creek to South
Site Topography	Flat		
Adjoining Vegetation (if rural)	Brush		
Water Features	Stream/River		
Distance(ft) to Facility	600	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	creek to South
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	1
Auto (Non-ADA)	8
Truck	5

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		6
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		2
Picnic Tables (ADA)	No		0
Picnic Tables (Non-ADA)	Yes		3
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Yes	No	Count
Drinking Fountains	Yes		1
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	No		
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	No		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Fair: Sound, weatherproof, some wear and tear.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	Direction Distance (mi)	
		NB
	SB	1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington	Land Area (Acres)	0
Date:	7/3/2013	Facility Status	Seasonal
Facility Name	Rock Creek (east) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	127+0.454	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	wetland to SW
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	500	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	clark fork river area
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	13
Truck	7

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	3
Interior Waste Receptacles	No		
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	Yes		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	
Interior Lighting	
Paint	
Restroom Plumbing Fixtures	
Roofing	
Siding	
Facility Ventilation	

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	0.5

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Fair: Legible, starting to show some wear.

Comments/Unique Issues or Features

Photo Numbers 101-0129 thru 101-0139

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah/cdorrington	Land Area (Acres)	0
Date:	7/3/2013	Facility Status	Seasonal
Facility Name	Rock Creek (west) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	Parking Area	Year of original construction	
Route	I-90	Year of most recent rehab	
Reference Post	127+0.561	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	clark fork river area
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass	Observable constraints to expansion?	No
Water Features	Wetland	If Yes, explain	
Distance(ft) to Facility			
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	12
Truck	7

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes	No	3
Interior Waste Receptacles	No	No	
Picnic Structures	No	No	
Picnic Tables (ADA)	No	No	
Picnic Tables (Non-ADA)	No	No	
Perimeter Fencing	Yes	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets				1	

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	No	
Security Features (Interior)	No	
Security Features (Exterior)	No	
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	
Interior Lighting	
Paint	
Restroom Plumbing Fixtures	
Roofing	
Siding	
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
	1.5, .5

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Fair: Legible, starting to show some wear.

Comments/Unique Issues or Features

Photo Numbers 101-0119 thru 101-0129

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/20/2013	Facility Status	Seasonal
Facility Name	Roundup <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	City Park Rest Area	Year of original construction	
Route	N-14	Year of most recent rehab	
Reference Post	169+0.705	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Urban	If Yes, explain	
Site Topography	Flat	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	Yes
Distance(ft) to Facility		If Yes, explain	In the city park.
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	24
Truck	0

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		2
Interior Waste Receptacles	Yes		2
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		1
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual	1	1			
Sinks	1	1			
Toilets, Flush Type	1	1			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	No
Playground Areas	Yes 1
Seating (not picnic tables)	Yes 2
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	No N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Poor: Poor appearance, receptacles without lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Fair: Functional, some maintenance required.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

		Direction	Distance (mi)
		WB	0.2
		EB	0.1
		SB	0.2
Is highway signage provided at the rest area ramp locations?	No	NB	0.2

Sign Condition

Comments/Unique Issues or Features

part of city park. There are other picnic tables in the park. The play area is also part of park. No dogs allowed. No striping at all.

Photo Numbers

100-0291 thru 100-0307

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/11/2013	Facility Status	Year-Round
Facility Name	Sweet Grass <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	No
Facility Type	MDT Rest Area	Year of original construction	2002
Route	I-15	Year of most recent rehab	
Reference Post	397+0.840	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind	W	Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?	No		

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	14
Truck	8

need more truck parking

Site Features:

	#
Exterior Waste Receptacles	Yes 11
Interior Waste Receptacles	Yes 9
Picnic Structures	No
Picnic Tables (ADA)	Yes 3
Picnic Tables (Non-ADA)	Yes 2
Perimeter Fencing	Yes NA

Wastewater System:

Treatment System	Municipal System
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	2002
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	2	2		2	2
Sinks	2	2		2	2
Toilets, Flush Type	2	2		2	2
Urinals	2				1
Vault Toilets					

Water System:

Water Source	Municipal System
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	No
Irrigation water source	Municipal System
Is backflow prevention included on irrigation?	Yes
Are water meters installed?	Yes
Describe meter location(s)	
in mechanical room	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		2	4x6
		1	2x3
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	lewis and Clark
	1	concrete	first special service force
	1	steel posts	sweetgrass hills

	Count
Drinking Fountains	Yes 2
Interactive Monitors	No
Pet Areas	Yes 1
Playground Areas	No
Seating (not picnic tables)	Yes 4
Security Features (Interior)	Yes
Security Features (Exterior)	Yes
Telephones	Yes 1
Vending Machines	No
Trails	Yes N/A
Cell Phone/Satellite Coverage	No N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Excellent: New interior lighting, excellent condition.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	NB	2,1,.1
	SB	0.1, .05

Is highway signage provided at the rest area ramp locations? Yes

Sign Condition Good: Clear and legible.

Comments/Unique Issues or Features

needs larger main directional signage. Easy to get mistaken at entry. Need more cigarette receptacles.

Photo Numbers 100-00226 thru 100-0264

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/12/2013	Facility Status	Year-Round
Facility Name	Teton River (north) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	318+0.705	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	Teton river to the South.
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	500	Observable constraints to expansion?	No
Site floodplain maps available?		If Yes, explain	
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	19
Truck	10

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		12
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		2
Picnic Tables (ADA)	Yes		4
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	2	2			
Sinks	1	1			
Toilets, Flush Type	1(+1)	2(+1)			2
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wall mount	First Special Service Force

	Yes	No	Count
Drinking Fountains	Yes		2
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	Yes		2
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	No		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Good: Watertight , no signs of deterioration, maintenance free.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Still trying to establish the grass to the South of rest area.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/12/2013	Facility Status	Year-Round
Facility Name	Teton River (south) <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Great Falls	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	I-15	Year of most recent rehab	
Reference Post	318+0.752	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	Teton river to the South.
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	800	Observable constraints to expansion?	No
Site floodplain maps available?		If Yes, explain	
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	21
Truck	10

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	12
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	4
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	2	2			
Sinks	1	1			
Toilets, Flush Type	1(+1)	2(+1)			2
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x3
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wall mount	Fist Special Service Force

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	2
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Excellent: New parking area, no ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Excellent: New pavement, no cracking or rutting.
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Excellent: New picnic facilities, excellent condition.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Excellent: New paint, excellent condition.
Restroom Plumbing Fixtures	Excellent: New plumbing fixtures, excellent condition.
Roofing	Good: Watertight , no signs of deterioration, maintenance free.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	2, .5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Lawn is excellent in place, and dead in places. Still trying to establish the grass.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfab	Land Area (Acres)	0
Date:	7/10/2013	Facility Status	Year-Round
Facility Name	Troy <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Missoula	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-1	Year of most recent rehab	
Reference Post	017+0.042	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	foest all around
Site Topography	Flat		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	24
Truck	6

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	9
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	8
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	2	2			
Sinks	2	2			
Toilets, Flush Type	2	4			
Urinals	2				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Yes	Count
Drinking Fountains	Yes	1
Interactive Monitors	No	
Pet Areas	Yes	1
Playground Areas	No	
Seating (not picnic tables)	Yes	3
Security Features (Interior)		
Security Features (Exterior)		
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Excellent: New, excellent condition.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Excellent: New signage, excellent condition.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Fair: Functional, some maintenance required.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Excellent: New siding, excellent condition.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	1, .3
EB	1, .3
WB	1, .3

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

very good condition overall.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/16/2013	Facility Status	Seasonal
Facility Name	Twin Bridges <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	City Park Rest Area	Year of original construction	
Route	P-49	Year of most recent rehab	
Reference Post	027+0.393	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Urban	If Yes, explain	River on edge of site
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features	Stream/River		
Distance(ft) to Facility	60	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	river to NE
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	17
Truck	4

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		7
Interior Waste Receptacles	Yes		2
Picnic Structures	No		
Picnic Tables (ADA)	Yes		2
Picnic Tables (Non-ADA)	Yes		2
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic					
Manual	1	1			
Sinks	2	2			
Toilets, Flush Type	1	1			(1,1)
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		4	4x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	Road Agent Trail

	Yes	No	Count
Drinking Fountains	Yes		1
Interactive Monitors	No		
Pet Areas	Yes		1
Playground Areas	No		
Seating (not picnic tables)	No		
Security Features (Interior)			
Security Features (Exterior)			
Telephones	No		
Vending Machines	No		
Trails	Yes		N/A
Cell Phone/Satellite Coverage	Yes		N/A
Wi-Fi	No		N/A
Other	No		

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
EB	0.25
NB	1.25
SB	1.25

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

parking lot is conducive to wheelchair use. No curbing etc. Good access to both picnic tables, restrooms etc.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/30/2013	Facility Status	Seasonal
Facility Name	Vandalia <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	N-1	Year of most recent rehab	
Reference Post	527+0.205	As-built drawings available?	
Roadbed	W	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Flat		
Adjoining Vegetation (if rural)	Grass		
Water Features		Observable constraints to expansion?	No
Distance(ft) to Facility		If Yes, explain	
Site floodplain maps available?			
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	14
Truck	8

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		9
Interior Waste Receptacles	Yes		2
Picnic Structures	Yes		3
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		6
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases		1	2x3
		1	3x4
		1	3x6

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	steel posts	The Ice Ages
	1	wooden posts	Liquid Gold

	Count
Drinking Fountains	2
Interactive Monitors	
Pet Areas	
Playground Areas	
Seating (not picnic tables)	2
Security Features (Interior)	
Security Features (Exterior)	
Telephones	
Vending Machines	
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Fair: Plants/grass are alive but do not appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Fair: Necessities are signed, fair appearance.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	EB	0.5
	WB	0.5

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Caretaker mentioned that it would be nice to have garbage cans put back on the West side of the site. The slab and brackets are th

Photo Numbers 100-0124 thru 100-0149

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/18/2013	Facility Status	Seasonal
Facility Name	Vista Point <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Billings	Caretaker contract?	
Facility Type	MDT Rest Area	Year of original construction	
Route	P-28	Year of most recent rehab	
Reference Post	049+0.130	As-built drawings available?	
Roadbed	N	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Rural	If Yes, explain	on Beartooth Pass
Site Topography	Mountainous		
Adjoining Vegetation (if rural)	Forest		
Water Features	Stream/River		
Distance(ft) to Facility	6000	Observable constraints to expansion?	Yes
Site floodplain maps available?		If Yes, explain	Extremely steep rocky terra
Is facility in floodplain?			

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	20
Truck	5

Site Features:

	Yes/No	#
Exterior Waste Receptacles	Yes	5
Interior Waste Receptacles	No	
Picnic Structures	No	
Picnic Tables (ADA)	No	
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	No	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	
--------------	--

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks					
Toilets, Flush Type					
Urinals					
Vault Toilets	3	3			

Water System:

Water Source	
Is site irrigated?	No
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		1	2x4
		1	3x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	metal post	High Country Thoroughfare

	Count	
Drinking Fountains	No	
Interactive Monitors	No	
Pet Areas	No	
Playground Areas	No	
Seating (not picnic tables)	Yes	
Security Features (Interior)		
Security Features (Exterior)		
Telephones	Yes	
Vending Machines	No	
Trails	Yes	N/A
Cell Phone/Satellite Coverage	No	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Good: Functional, adequate coverage.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	No
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	Yes
Picnic Facilities	Poor: Non-functional, poor appearance, or no picnic facilities
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Poor: Unsafe illumination, antiquated fixtures, or no interior lighting provided.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Poor: Leaking and damaged, or no plumbing fixtures provided.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	Continuous Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
SB	0.1
NB	0.1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Hiway side of site is not fenced, but the site has nice stone/tubing handrail/seating area. One section of tubing was missing from ramp

Photo Numbers 100-0076 thru 100-0104

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah	Land Area (Acres)	0
Date:	7/17/2013	Facility Status	Year-Round
Facility Name	West Yellowstone <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Butte	Caretaker contract?	
Facility Type	City Park Rest Area	Year of original construction	
Route	N-50	Year of most recent rehab	
Reference Post	000+0.080	As-built drawings available?	
Roadbed	S	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	Yes
Setting	Urban	If Yes, explain	forest to south.
Site Topography	Flat		
Adjoining Vegetation (if rural)	Forest		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	Yes
Is facility in floodplain?		If Yes, explain	surrounded by other establ

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	3
Auto (Non-ADA)	52
Truck	0

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		4
Interior Waste Receptacles	Yes		2
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	Yes		2
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Automatic Manual	2	2			
Sinks	3	3			
Toilets, Flush Type	3	7			(1,1)
Urinals	4				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count
Drinking Fountains	No
Interactive Monitors	No
Pet Areas	No
Playground Areas	No
Seating (not picnic tables)	Yes 1
Security Features (Interior)	
Security Features (Exterior)	
Telephones	No
Vending Machines	No
Trails	No N/A
Cell Phone/Satellite Coverage	Yes N/A
Wi-Fi	No N/A
Other	No

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	No
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Excellent: New sidewalks, no deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Excellent: New receptacles, excellent appearance.

Structure(s):

Floors	Excellent: New flooring, excellent condition.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area?

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Is highway signage provided at the rest area ramp locations?

Sign Condition

Comments/Unique Issues or Features

this is part of visitors information center. Handicapped parking spaces are at the opposite end of the parking lot from the restrooms.

Photo Numbers

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfah
Date:	7/10/2013
Facility Name	Whitefish (copy/paste from Database)
MDT District	Missoula
Facility Type	City Park Rest Area
Route	N-5
Reference Post	128+0.965
Roadbed	S

Land Area (Acres)	0
Facility Status	Seasonal
Asbestos Report?	
Caretaker contract?	
Year of original construction	
Year of most recent rehab	
As-built drawings available?	
If Yes, indicate format	

Site Characteristics

Prevailing Wind	
Setting	Urban
Site Topography	Flat
Adjoining Vegetation (if rural)	Grass
Water Features	
Distance(ft) to Facility	
Site floodplain maps available?	
Is facility in floodplain?	

Proximity to environmentally sensitive areas?	No
If Yes, explain	
Observable constraints to expansion?	No
If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	0
Auto (Non-ADA)	6
Truck	0

Site Features:

	Yes	No	#
Exterior Waste Receptacles	Yes		1
Interior Waste Receptacles	Yes		2
Picnic Structures	No		
Picnic Tables (ADA)	No		
Picnic Tables (Non-ADA)	No		
Perimeter Fencing	No		NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers					
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

paper towels in restrooms

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	No	N/A	
Display Cases			

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers			

	Count
Drinking Fountains	1
Interactive Monitors	
Pet Areas	
Playground Areas	
Seating (not picnic tables)	1
Security Features (Interior)	
Security Features (Exterior)	
Telephones	
Vending Machines	
Trails	N/A
Cell Phone/Satellite Coverage	N/A
Wi-Fi	N/A
Other	

Condition Assessment

Parking Area:

Drainage Conditions	Fair: Some ponding and flat areas.
Pavement Type	Asphalt
Pavement Condition	Fair: Moderately rough surface, cracking 3/8" to 3" wide, some network cracking, rut depths 1"-2".
Striping Quality	Poor: Non-functional and deteriorated.

Site:

Exterior Lighting

Parking Areas	No
Building Entries	Yes
Highway Ramps	No
Walkways	No

Landscaping/Lawn Areas	Excellent: New landscaping, plants/grass alive and healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Poor: Non-functional, poor appearance, or no picnic facilities
Sidewalks	Fair: Adequate connectivity, some deterioration.
Site Signage	Poor: Missing signage or unreadable.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

asphalt

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Fair: Sufficient illumination, older fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

	Direction	Distance (mi)
Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.	NB	1
	SB	0.1

Is highway signage provided at the rest area ramp locations? No

Sign Condition

Comments/Unique Issues or Features

Parking lot is part of tennis court, golf course lot. 4 spots have blue curb stops, but no signage, or striping. Paper towels used in re

Photo Numbers 100-0191 thru 100-0204

Rest Area Evaluation Form

Note: If unable to assess a particular feature, leave response blank.

General Information

Inspector(s)	jfh	Land Area (Acres)	0
Date:	7/24/2013	Facility Status	Year-Round
Facility Name	Wibaux <small>(copy/paste from Database)</small>	Asbestos Report?	
MDT District	Glendive	Caretaker contract?	
Facility Type	Other	Year of original construction	
Route	I-94	Year of most recent rehab	
Reference Post	242+0.408	As-built drawings available?	
Roadbed	E	If Yes, indicate format	

Site Characteristics

Prevailing Wind		Proximity to environmentally sensitive areas?	No
Setting	Rural	If Yes, explain	
Site Topography	Rolling		
Adjoining Vegetation (if rural)	Grass		
Water Features			
Distance(ft) to Facility			
Site floodplain maps available?		Observable constraints to expansion?	No
Is facility in floodplain?		If Yes, explain	

Site Map

Asset Inventory

Parking Spaces:

	Enter Number
ADA	2
Auto (Non-ADA)	27
Truck	8

Site Features:

	Yes	#
Exterior Waste Receptacles	Yes	13
Interior Waste Receptacles	Yes	2
Picnic Structures	Yes	2
Picnic Tables (ADA)	Yes	8
Picnic Tables (Non-ADA)	No	
Perimeter Fencing	Yes	NA

Wastewater System:

Treatment System	
If on-site septic/drainfield	
If dosed with a pump, do the pumps include run-time meters?	
Year of Construction	
Year of Rehabilitation	
Is an effluent meter installed?	
Inspection Requirements	

Power:

Power Source	Utility
--------------	---------

Restroom Fixtures (indicate number of fixtures):

Fixture Type	Type of Restroom				
	Men	Women	Family	Unisex	ADA
Hand Dryers	1	1			
Sinks	1	1			
Toilets, Flush Type	1	2			
Urinals	1				
Vault Toilets					

Water System:

Water Source	
Is site irrigated?	Yes
Indicate irrigated areas on site map	
Is irrigation source separate from domestic source?	
Irrigation water source	
Is backflow prevention included on irrigation?	
Are water meters installed?	
Describe meter location(s)	
Is water source treated?	
Type of treatment	
Is water source disinfected?	
Type of disinfection	

Amenities:

	Yes/No	Count	Size (feet x feet)
Montana Highway Maps	Yes	N/A	
Display Cases		4	3x4
		1	2x4

	Count	Type of Base	Title
Interpretive Signs and/or Historical Markers	1	wooden posts	Pierre Wibaux
	1	wall mount	Montana Big Sky Country

	Yes	Count
Drinking Fountains	Yes	2
Interactive Monitors	No	
Pet Areas	Yes	2
Playground Areas	No	
Seating (not picnic tables)	Yes	3
Security Features (Interior)	Yes	
Security Features (Exterior)	Yes	
Telephones	No	
Vending Machines	No	
Trails	No	N/A
Cell Phone/Satellite Coverage	Yes	N/A
Wi-Fi	No	N/A
Other	No	

Condition Assessment

Parking Area:

Drainage Conditions	Good: No ponding or flat areas.
Pavement Type	Asphalt
Pavement Condition	Good: Smooth surface, minor/hairline cracking, few interconnecting cracks, rutting depths < 1".
Striping Quality	Fair: Functional, some deterioration.

Site:

Exterior Lighting

Parking Areas	Yes
Building Entries	Yes
Highway Ramps	Yes
Walkways	Yes

Landscaping/Lawn Areas	Good: Plants/grass are alive & appear healthy.
Xeriscaping used for landscape?	No
Picnic Facilities	Good: Functional, well-maintained, clean.
Sidewalks	Good: Adequate connectivity, minimal deterioration.
Site Signage	Good: Directs traffic properly, indicates site areas.
Exterior Waste Receptacle Condition	Good: Good appearance, receptacles with lids.

Structure(s):

Floors	Good: No cracks or separation, level.
Interior Lighting	Good: Good illumination, high efficiency fixtures.
Paint	Good: Adequate coverage, no signs of chipping/peeling.
Restroom Plumbing Fixtures	Good: Good fixture and piping appearance, no leaks.
Roofing	Good: Watertight, no signs of deterioration, maintenance free.
Siding	Good: Sound, weatherproof, tight, good finish, maintenance free.
Facility Ventilation	No Odor Problem

Highway Signage:

Advance Signage

Is advance highway signage provided prior to the rest area? Yes

Indicate approximate distance in miles. For rest areas with two-way traffic, indicate distance in both directions.

Direction	Distance (mi)
NB	0.5
SB	0.5

Is highway signage provided at the rest area ramp locations? Yes EB WB

Sign Condition Excellent: New highway signage.

Comments/Unique Issues or Features

Part of the Wibaux Visitors Center. Very nice facility overall.

Photo Numbers 100-0203 thru 100-0247

Attachment 4

REST AREA AGE AND SERVICE LIFE

	Rest Area	Year of Original Construction	Age in 2014 (Years)	Remaining Service Life			
				Parking DL = 20		Structure DL = 50	
				Years	Score	Years	Score
1	Anaconda Rest Area	2008	6	14	Good	44	Good
2	Armington Junction Rest Area	1967	47	-27	Poor	3	Poor
3	Bad Route Rest Area	1973	41	-21	Poor	9	Poor
4	Bearmouth Rest Area	2014	0	20	Excellent	50	Excellent
5	Bozeman Rest Area	2000	14	6	Fair	36	Good
6	Bridger Rest Area	1989	25	-5	Poor	25	Fair
7	Broadus Rest Area	1987	27	-7	Poor	23	Fair
8	Clearwater Junction Rest Area	1999	15	5	Poor	35	Good
9	Columbus Rest Area	1972	42	-22	Poor	8	Poor
10	Conrad Rest Area	2012	2	18	Excellent	48	Excellent
11	Culbertson Rest Area	1998	16	4	Poor	34	Good
12	Custer Rest Area	1975	39	-19	Poor	11	Fair
13	Dearborn Rest Area	2012	2	18	Excellent	48	Excellent
14	Dena Mora Rest Area	2004	10	10	Fair	40	Good
15	Divide Rest Area	1977	37	-17	Poor	13	Fair
16	Emigrant Rest Area	1989	25	-5	Poor	25	Fair
17	Flowing Wells Rest Area	1964	50	-30	Poor	0	Poor
18	Gold Creek Rest Area	1973	41	-21	Poor	9	Poor
19	Greycliff Rest Area	2014	0	20	Excellent	50	Excellent
20	Hardin Rest Area	1972	42	-22	Poor	8	Poor
21	Harlowton Rest Area	2012	2	18	Excellent	48	Excellent
22	Hathaway Rest Area	1963	51	-31	Poor	-1	Poor
23	Hysham Rest Area	1967	47	-27	Poor	3	Poor
24	Jefferson City Rest Area	1972	42	-22	Poor	8	Poor
25	Lima Rest Area	2010	4	16	Excellent	46	Excellent
26	Lost Trail Pass Rest Area	2001	13	7	Fair	37	Good
27	Mosby Rest Area	2005	9	11	Good	41	Good
28	Quartz Flats Rest Area	1967	47	-27	Poor	3	Poor
29	Raynolds Pass Rest Area	1969	45	-25	Poor	5	Poor
30	Roberts Rest Area	1968	46	-26	Poor	4	Poor
31	Sweet Grass Rest Area	2002	12	8	Fair	38	Good
32	Teton River Rest Area	1978	36	-16	Poor	14	Fair
33	Troy Rest Area	1991	23	-3	Poor	27	Fair
34	Vandalia Rest Area	1967	47	-27	Poor	3	Poor
35	Vista Point Rest Area	1995	19	1	Poor	31	Good

DL = Design Life (Years)

Attachment 5

PARKING/RESTROOM STALL DEMAND CALCULATIONS

Rest Area Name	Parking Spaces														Restroom Stalls															
	Passenger Vehicles							Oversized Vehicles							Men					Women					Men & Women					
	2013 Supply	2011 Demand	2031 Demand	2013 Supply as a Percentage of 2011 Demand	2011 Deficiency/Surplus	2031 Deficiency/Surplus	Score	2013 Supply	2011 Demand	2031 Demand	2013 Supply as a Percentage of 2011 Demand	2011 Deficiency/Surplus	2031 Deficiency/Surplus	Score	2013 Supply	2011 Demand	2031 Demand	2013 Supply as a Percentage of 2011 Demand	2011 Deficiency/Surplus	2031 Deficiency/Surplus	2013 Supply	2011 Demand	2031 Demand	2013 Supply as a Percentage of 2011 Demand	2011 Deficiency/Surplus	2031 Deficiency/Surplus	Total 2013 Supply as a Percentage of Total 2011 Demand	Total 2011 Deficiency/Surplus (M&W)	Total 2031 Deficiency/Surplus (M&W)	Score
1 Anaconda Rest Area	27	13	17	2.08	14	10	Excellent	15	22	28	0.68	-7	-13	Poor	5	2	2	2.50	3	3	5	3	4	1.67	2	1	2.00	5	4	Excellent
2 Armington Junction Rest Area	13	8	10	1.63	5	3	Excellent	12	4	5	3.00	8	7	Excellent	3	1	2	3.00	2	1	3	2	2	1.50	1	1	2.00	3	2	Excellent
3 Bad Route Rest Area	36	7	10	5.14	29	26	Excellent	13	22	35	0.59	-9	-22	Poor	3	1	2	3.00	2	1	3	2	2	1.50	1	1	2.00	3	2	Excellent
4 Bearmouth (East) Rest Area	23	13	16	1.77	10	7	Excellent	27	15	19	1.80	12	8	Excellent	3	2	2	1.50	1	1	5	3	4	1.67	2	1	1.60	3	2	Excellent
5 Bearmouth (West) Rest Area	22	13	16	1.69	9	6	Excellent	25	15	19	1.67	10	6	Excellent	3	2	2	1.50	1	1	4	2	4	2.00	2	0	1.75	3	1	Excellent
6 Bozeman Rest Area	26	30	50	0.87	-4	-24	Fair	10	27	45	0.37	-17	-35	Poor	6	4	6	1.50	2	0	7	5	9	1.40	2	-2	1.44	4	-2	Good
7 Bridger Rest Area	13	20	25	0.65	-7	-12	Poor	5	7	9	0.71	-2	-4	Poor	3	3	3	1.00	0	0	3	4	5	0.75	-1	-2	0.86	-1	-2	Fair
8 Broadus Rest Area	9	3	5	3.00	6	4	Excellent	14	3	5	4.67	11	9	Excellent	2	1	1	2.00	1	1	2	1	1	2.00	1	1	2.00	2	2	Excellent
9 Clearwater Junction Rest Area	26	12	18	2.17	14	8	Excellent	14	3	5	4.67	11	9	Excellent	2	2	2	1.00	0	0	2	2	4	1.00	0	-2	1.00	0	-2	Good
10 Columbus (East) Rest Area	35	12	17	2.92	23	18	Excellent	8	19	27	0.42	-11	-19	Poor	3	2	2	1.50	1	1	3	2	4	1.50	1	-1	1.50	2	0	Excellent
11 Columbus (West) Rest Area	29	10	14	2.90	19	15	Excellent	8	23	32	0.35	-15	-24	Poor	3	2	2	1.50	1	1	3	2	3	1.50	1	0	1.50	2	1	Excellent
12 Conrad Rest Area	31	4	6	7.75	27	25	Excellent	18	13	18	1.38	5	0	Excellent	4	1	1	4.00	3	3	4	1	1	4.00	3	3	4.00	6	6	Excellent
13 Culbertson Rest Area	23	2	3	11.50	21	20	Excellent	12	5	7	2.40	7	5	Excellent	2	0	1	#DIV/0!	2	1	2	1	1	2.00	1	1	4.00	3	2	Excellent
14 Custer (East) Rest Area	14	5	6	2.80	9	8	Excellent	10	13	18	0.77	-3	-8	Poor	3	1	1	3.00	2	2	3	1	1	3.00	2	2	3.00	4	4	Excellent
15 Custer (West) Rest Area	17	4	5	4.25	13	12	Excellent	11	10	13	1.10	1	-2	Good	3	1	1	3.00	2	2	3	1	1	3.00	2	2	3.00	4	4	Excellent
16 Dearborn (North) Rest Area	20	5	6	4.00	15	14	Excellent	24	9	11	2.67	15	13	Excellent	4	1	1	4.00	3	3	4	1	1	4.00	3	3	4.00	6	6	Excellent
17 Dearborn (South) Rest Area	20	4	5	5.00	16	15	Excellent	24	7	8	3.43	17	16	Excellent	4	1	1	4.00	3	3	4	1	1	4.00	3	3	4.00	6	6	Excellent
18 Dena Mora (East) Rest Area	23	15	20	1.53	8	3	Excellent	15	46	65	0.33	-31	-50	Poor	4	2	3	2.00	2	1	4	3	4	1.33	1	0	1.60	3	1	Excellent
19 Dena Mora (West) Rest Area	24	13	19	1.85	11	5	Excellent	11	32	45	0.34	-21	-34	Poor	4	2	3	2.00	2	1	4	3	4	1.33	1	0	1.60	3	1	Excellent
20 Divide (North) Rest Area	18	7	9	2.57	11	9	Excellent	10	10	13	1.00	0	-3	Good	3	1	1	3.00	2	2	3	2	2	1.50	1	1	2.00	3	3	Excellent
21 Divide (South) Rest Area	18	6	7	3.00	12	11	Excellent	10	8	9	1.25	2	1	Excellent	3	1	1	3.00	2	2	3	1	2	3.00	2	1	3.00	4	3	Excellent
22 Emigrant Rest Area	20	6	7	3.33	14	13	Excellent	6	1	1	6.00	5	5	Excellent	3	1	1	3.00	2	2	3	1	2	3.00	2	1	3.00	4	3	Excellent
23 Flowing Wells Rest Area	10	5	6	2.00	5	4	Excellent	0	2	2	0.00	-2	-2	Poor	2	1	1	2.00	1	1	2	1	2	2.00	1	0	2.00	2	1	Excellent
24 Gold Creek (East) Rest Area	19	13	15	1.46	6	4	Excellent	11	19	22	0.58	-8	-11	Poor	3	2	2	1.50	1	1	3	2	3	1.50	1	0	1.50	2	1	Excellent
25 Gold Creek (West) Rest Area	17	11	13	1.55	6	4	Excellent	10	20	24	0.50	-10	-14	Poor	3	2	2	1.50	1	1	3	2	3	1.50	1	0	1.50	2	1	Excellent
26 Greycliff (East) Rest Area	19	10	12	1.90	9	7	Excellent	47	24	29	1.96	23	18	Excellent	3	2	2	1.50	1	1	4	2	2	2.00	2	2	1.75	3	3	Excellent
27 Greycliff (West) Rest Area	16	10	12	1.60	6	4	Excellent	33	21	25	1.57	12	8	Excellent	3	2	2	1.50	1	1	3	2	2	1.50	1	1	1.50	2	2	Excellent
28 Hardin (East) Rest Area	29	6	7	4.83	23	22	Excellent	8	17	22	0.47	-9	-14	Poor	2	1	1	2.00	1	1	2	1	2	2.00	1	0	2.00	2	1	Excellent
29 Hardin (West) Rest Area	14	5	6	2.80	9	8	Excellent	13	9	12	1.44	4	1	Excellent	3	1	1	3.00	2	2	3	1	1	3.00	2	2	3.00	4	4	Excellent
30 Harlowton Rest Area	22	7	11	3.14	15	11	Excellent	16	11	16	1.45	5	0	Excellent	4	1	2	4.00	3	2	4	2	2	2.00	2	2	2.67	5	4	Excellent
31 Hathaway (East) Rest Area	11	5	7	2.20	6	4	Excellent	11	8	12	1.38	3	-1	Good	3	1	1	3.00	2	2	3	1	2	3.00	2	1	3.00	4	3	Excellent
32 Hathaway (West) Rest Area	8	4	6	2.00	4	2	Excellent	12	10	14	1.20	2	-2	Good	3	1	1	3.00	2	2	3	1	1	3.00	2	2	3.00	4	4	Excellent
33 Hysham (East) Rest Area	15	5	7	3.00	10	8	Excellent	4	22	29	0.18	-18	-25	Poor	4	1	1	4.00	3	3	4	1	2	4.00	3	2	4.00	6	5	Excellent
34 Hysham (West) Rest Area	16	6	7	2.67	10	9	Excellent	4	16	20	0.25	-12	-16	Poor	4	1	1	4.00	3	3	4	1	2	4.00	3	2	4.00	6	5	Excellent
35 Jefferson City (North) Rest Area	10	5	6	2.00	5	4	Excellent	6	8	10	0.75	-2	-4	Poor	2	1	1	2.00	1	1	2	1	1	2.00	1	1	2.00	2	2	Excellent
36 Jefferson City (South) Rest Area	10	6	7	1.67	4	3	Excellent	4	8	9	0.50	-4	-5	Poor	2	1	1	2.00	1	1	2	1	2	2.00	1	0	2.00	2	1	Excellent
37 Lima Rest Area	28	13	20	2.15	15	8	Excellent	19	35	53	0.54	-16	-34	Poor	4	2	3	2.00	2	1	4	3	4	1.33	1	0	1.60	3	1	Excellent
38 Lost Trail Pass Rest Area	21	6	7	3.50	15	14	Excellent	6	2	2	3.00	4	4	Excellent	3	1	1	3.00	2	2	3	1	2	3.00	2	1	3.00	4	3	Excellent
39 Mosby Rest Area	9	7	10	1.29	2	-1	Good	6	4	6	1.50	2	0	Excellent	4	1	2	4.00	3	2	4	2	2	2.00	2	2	2.67	5	4	Excellent
40 Quartz Flats (East) Rest Area	26	19	25	1.37	7	1	Excellent	11	40	55	0.28	-29	-44	Poor	4	3	4	1.33	1	0	4	4	5	1.00	0	-1	1.14	1	-1	Good
41 Quartz Flats (West) Rest Area	25	18	24	1.39	7	1	Excellent	10	27	36	0.37	-17	-26	Poor	4	2	4	2.00	2	0	4	4	5	1.00	0	-1	1.33	2	-1	Good
42 Reynolds Pass Rest Area	11	4	6	2.75	7	5	Excellent	9	2	2	4.50	7	7	Excellent	2	1	1	2.00	1	1	2	1	1	2.00	1	1	2.00	2	2	Excellent
43 Roberts Rest Area	8	3	5	2.67	5	3	Excellent	5	1	1	5.00	4	4	Excellent	2	0	1	#DIV/0!	2	1	2	1	1	2.00	1	1	4.00	3	2	Excellent
44 Sweet Grass Rest Area	14	5	6	2.80	9	8	Excellent	8	20	24	0.40	-12	-16	Poor	4	1	1	4.00	3	3	4	1	2	4.00	3	2	4.00	6	5	Excellent
45 Teton River (North) Rest Area	19	3	3	6.33	16	16	Excellent	10	5	6	2.00	5	4	Excellent	3	0	1	#DIV/0!	3	2	3	1	1	3.00	2	2	6.00	5	4	Excellent
46 Teton River (South) Rest Area	21	4	5	5.25	17	16	Excellent	10	7	9	1.43	3	1	Excellent	3	1	1	3.00	2	2	3	1	1	3.00	2	2	3.00	4	4	Excellent
47 Troy Rest Area	24	4	4	6.00	20	20	Excellent	6	1	1	6.00	5	5	Excellent	3	0	1	#DIV/0!	3	2	4	1	1	4.00	3	3	7.00	6	5	Excellent
48 Vandalia Rest Area	14	2	3	7.00	12	11	Excellent	8	1	1	8.00	7	7	Excellent	2	0	0	#DIV/0!	2	2	2	1	1	2.00	1	1	4.00	3	3	Excellent
49 Vista Point Rest Area	20	19	23	1.05	1	-3	Good	5	1	1	5.00	4	4	Excellent	0	2	3	0.00	-2	-3	0	4	4	0.00	-4	-4	0.00	-6	-7	Poor

Note: Highlighted values indicate assumed values for the Greycliff Rest Area.

Anaconda Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	9,040	9,040	11,938	11,938	15,765	15,765	Average of Traffic Count Sites 12-1-2 & 12-1-3
	Average Annual Daily Traffic (Trucks)	AADT _T	1,834	1,834	2,422	2,422	3,198	3,198	Average of Traffic Count Sites 12-1-2 & 12-1-3
	Peak Hour Volume	PHV	829	163	1,095	215	1,446	284	Average of Traffic Count Sites 12-1-2 & 12-1-3, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.07	0.07	0.07	0.07	0.07	0.07	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	62	13	82	16	108	22	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.71%	79.71%	79.71%	79.71%	79.71%	79.71%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.20%	40.58%	14.20%	40.58%	14.20%	40.58%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	49	10	65	13	86	18	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	9	5	12	6	15	9	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	58	15	77	19	101	27	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	9	NA	12	NA	16	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	5	16	7	21	9	27	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	6	NA	8	NA	10	NA	$PT = (N_c(D_{Day}) + N_t(D_{Night})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	4	NA	6	NA	8	NA	$R = (N_c(D_{Day}) + N_t(D_{Night})) * 0.3$

¹ Compound Annual Growth Rate = 1.40%

Anaconda Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,121	1,121	1,460	1,460	1,928	1,928	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	561	561	730	730	964	964	AADP = AADC / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	10,893	10,893	14,186	14,186	18,734	18,734	Average of Traffic Count Sites 12-1-2 & 12-1-3 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	43	8	56	11	73	14	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	28	6	37	7	49	10	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.71%	79.71%	79.71%	79.71%	79.71%	79.71%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.20%	40.58%	14.20%	40.58%	14.20%	40.58%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	23	5	30	6	39	8	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	5	3	6	3	7	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	28	8	36	9	46	12	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	8	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	10	NA	13	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Anaconda Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	2,055	2,055	2,676	2,676	3,534	3,534	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	1,028	1,028	1,338	1,338	1,767	1,767	ASDP = ASDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	10,893	10,893	14,186	14,186	18,734	18,734	Average of Traffic Count Sites 12-1-2 & 12-1-3 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	78	15	102	20	134	26	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	52	10	68	13	90	18	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.71%	79.71%	79.71%	79.71%	79.71%	79.71%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.20%	40.58%	14.20%	40.58%	14.20%	40.58%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	42	9	55	11	72	15	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	8	5	10	6	13	8	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	50	14	65	17	85	23	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	8	NA	10	NA	14	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	14	NA	17	NA	23	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Anaconda Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,350	3,350	4,363	4,363	5,761	5,761	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,675	1,675	2,181	2,181	2,881	2,881	PDP = PDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	10,893	10,893	14,186	14,186	18,734	18,734	Average of Traffic Count Sites 12-1-2 & 12-1-3 Hourly Full Detail
	Peak Day Peak Hour People	PHP	127	25	166	33	219	43	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	85	17	111	22	146	29	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.71%	79.71%	79.71%	79.71%	79.71%	79.71%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.20%	40.58%	14.20%	40.58%	14.20%	40.58%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	68	14	89	18	117	23	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	13	7	16	9	21	12	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	81	21	105	27	138	35	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	13	NA	17	NA	22	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	22	NA	28	NA	37	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	5	NA	6	NA	7	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	3	NA	4	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	3	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Armington Junction Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,600	2,600	3,172	3,172	3,871	3,871	Traffic Count Site 7-2-19 (W-127)
	Average Annual Daily Traffic (Trucks)	AADT _t	359	359	438	438	535	535	Traffic Count Site 7-2-19 (W-127)
	Peak Hour Volume	PHV	212	32	259	39	316	48	Traffic Count Site 7-2-19 (W-127), Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.16	0.16	0.16	0.16	0.16	0.16	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	34	6	41	7	50	8	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.19%	86.19%	86.19%	86.19%	86.19%	86.19%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.67%	27.62%	9.67%	27.62%	9.67%	27.62%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	29	5	35	6	43	7	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	2	5	2	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	32	7	39	8	48	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	8	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	3	2	3	2	4	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	3	NA	4	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Armington Junction Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	904	904	1,092	1,092	1,333	1,333	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	452	452	546	546	666	666	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,636	2,636	3,185	3,185	3,886	3,886	Traffic Count Site 7-2-19 (W-127) Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	36	5	44	7	54	8	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	24	4	29	4	36	5	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.19%	86.19%	86.19%	86.19%	86.19%	86.19%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.67%	27.62%	9.67%	27.62%	9.67%	27.62%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	4	26	4	31	5	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	3	2	3	2	4	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	24	6	29	6	35	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	2	NA	3	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Armington Junction Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,245	1,245	1,503	1,503	1,835	1,835	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	622	622	752	752	917	917	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,636	2,636	3,185	3,185	3,886	3,886	Traffic Count Site 7-2-19 (W-127) Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	50	8	60	9	74	11	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	33	5	40	6	49	7	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.19%	86.19%	86.19%	86.19%	86.19%	86.19%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.67%	27.62%	9.67%	27.62%	9.67%	27.62%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	29	5	35	6	43	7	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	4	2	4	2	5	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	33	7	39	8	48	10	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	8	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	3	NA	3	NA	4	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Armington Junction Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	2,065	2,065	2,494	2,494	3,043	3,043	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,032	1,032	1,247	1,247	1,522	1,522	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,636	2,636	3,185	3,185	3,886	3,886	Traffic Count Site 7-2-19 (W-127) Hourly Full Detail
	Peak Day Peak Hour People	PHP	83	13	100	15	122	18	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	55	8	67	10	82	12	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.19%	86.19%	86.19%	86.19%	86.19%	86.19%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.67%	27.62%	9.67%	27.62%	9.67%	27.62%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	48	8	58	9	71	11	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	6	3	7	3	8	4	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	54	11	65	12	79	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	8	NA	10	NA	12	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	5	NA	6	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Bad Route Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,280	4,280	7,151	7,151	11,949	11,949	Average of Traffic Count Sites 11-4-1 (W-103) & 40-2-3
	Average Annual Daily Traffic (Trucks)	AADT _T	1,283	1,283	2,144	2,144	3,582	3,582	Average of Traffic Count Sites 11-4-1 (W-103) & 40-2-3
	Peak Hour Volume	PHV	365	82	610	137	1,019	229	Average of Traffic Count Sites 11-4-1 (W-103) & 40-2-3, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.11	0.11	0.11	0.11	0.11	0.11	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	39	9	65	15	108	25	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	70.02%	70.02%	70.02%	70.02%	70.02%	70.02%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	20.98%	59.95%	20.98%	59.95%	20.98%	59.95%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	27	6	46	11	76	18	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	8	5	14	9	23	15	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	35	11	60	20	99	33	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	9	NA	14	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	6	18	9	30	15	49	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	7	NA	12	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	5	NA	9	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 2.60%

Bad Route Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	938	938	1,527	1,527	2,551	2,551	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	469	469	763	763	1,276	1,276	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,083	5,083	8,278	8,278	13,831	13,831	Average of Traffic Count Sites 11-4-1 (W-103) & 40-2-3 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	34	8	55	12	92	21	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	22	5	37	8	61	14	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	70.02%	70.02%	70.02%	70.02%	70.02%	70.02%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	20.98%	59.95%	20.98%	59.95%	20.98%	59.95%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	16	4	26	6	43	10	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	5	4	8	5	13	9	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	21	8	34	11	56	19	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	5	NA	8	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	11	NA	17	NA	28	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.60%

Bad Route Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,403	1,403	2,285	2,285	3,818	3,818	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	702	702	1,142	1,142	1,909	1,909	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,083	5,083	8,278	8,278	13,831	13,831	Average of Traffic Count Sites 11-4-1 (W-103) & 40-2-3 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	50	11	82	18	137	31	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	34	8	55	12	91	21	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	70.02%	70.02%	70.02%	70.02%	70.02%	70.02%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	20.98%	59.95%	20.98%	59.95%	20.98%	59.95%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	24	6	39	9	64	15	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	8	5	12	8	20	13	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	32	11	51	17	84	28	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	8	NA	12	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	16	NA	25	NA	42	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.60%

Bad Route Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,975	1,975	3,216	3,216	5,373	5,373	Door Count Data Provided by MDT
	Peak Daily People	PDP	987	987	1,608	1,608	2,686	2,686	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,083	5,083	8,278	8,278	13,831	13,831	Average of Traffic Count Sites 11-4-1 (W-103) & 40-2-3 Hourly Full Detail
	Peak Day Peak Hour People	PHP	71	16	115	26	193	43	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	47	11	77	17	129	29	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	70.02%	70.02%	70.02%	70.02%	70.02%	70.02%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	20.98%	59.95%	20.98%	59.95%	20.98%	59.95%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	34	8	54	13	91	21	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	10	7	17	11	27	18	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	44	15	71	24	118	39	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	10	NA	17	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	22	NA	35	NA	59	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.60%

Bearmouth (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,055	4,055	5,250	5,250	6,798	6,798	Traffic Count Site 20-1-7 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	847	847	1,096	1,096	1,419	1,419	Traffic Count Site 20-1-7 Eastbound Volume
	Peak Hour Volume	PHV	327	42	423	54	548	70	Traffic Count Site 20-1-7, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.16	0.16	0.16	0.16	0.16	0.16	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	53	7	68	9	88	12	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	42	6	54	7	70	9	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	8	3	10	4	13	5	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	50	9	64	11	83	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	8	NA	10	NA	13	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	5	9	6	12	8	15	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	5	NA	6	NA	8	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	4	NA	5	NA	6	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.30%

Bearmouth (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,375	1,375	1,757	1,757	2,275	2,275	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	688	688	879	879	1,138	1,138	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,178	4,178	5,340	5,340	6,914	6,914	Traffic Count Site 20-1-7 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	54	7	69	9	89	11	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	36	5	46	6	59	8	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	29	4	37	5	47	7	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	2	7	3	9	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	35	6	44	8	56	11	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	8	NA	10	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Bearmouth (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,971	1,971	2,519	2,519	3,262	3,262	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	986	986	1,260	1,260	1,631	1,631	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,178	4,178	5,340	5,340	6,914	6,914	Traffic Count Site 20-1-7 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	77	10	99	13	128	16	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	51	7	66	8	85	11	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	41	6	53	7	68	9	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	8	3	10	4	13	5	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	49	9	63	11	81	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	8	NA	10	NA	13	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	9	NA	12	NA	15	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Bearmouth (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,298	3,298	4,215	4,215	5,458	5,458	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,649	1,649	2,108	2,108	2,729	2,729	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,178	4,178	5,340	5,340	6,914	6,914	Traffic Count Site 20-1-7 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	129	17	165	21	214	27	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	86	11	110	14	142	18	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	69	9	88	12	113	15	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	13	5	17	6	21	8	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	82	14	105	18	134	23	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	13	NA	16	NA	21	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	15	NA	19	NA	24	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	5	NA	6	NA	7	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	3	NA	4	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	3	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Bearmouth (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,055	4,055	5,250	5,250	6,798	6,798	Traffic Count Site 20-1-7 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	847	847	1,096	1,096	1,419	1,419	Traffic Count Site 20-1-7 Westbound Volume
	Peak Hour Volume	PHV	316	41	409	53	530	69	Traffic Count Site 20-1-7, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.15	0.15	0.15	0.15	0.15	0.15	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	49	7	63	9	81	11	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	39	6	50	7	64	9	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	7	3	9	4	12	5	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	46	9	59	11	76	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	10	NA	NA	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	4	9	6	11	7	14	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	6	NA	8	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	5	NA	6	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.30%

Bearmouth (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,401	1,401	1,791	1,791	2,318	2,318	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	701	701	895	895	1,159	1,159	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,938	3,938	5,033	5,033	6,517	6,517	Traffic Count Site 20-1-7 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	56	7	72	9	93	12	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	37	5	48	6	62	8	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	30	4	38	5	50	7	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	3	7	3	10	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	36	7	45	8	60	11	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	9	NA	11	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Bearmouth (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,885	1,885	2,409	2,409	3,119	3,119	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	943	943	1,205	1,205	1,560	1,560	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,938	3,938	5,033	5,033	6,517	6,517	Traffic Count Site 20-1-7 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	76	10	97	13	125	16	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	50	7	64	8	83	11	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	40	6	51	7	67	9	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	8	3	10	4	13	5	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	48	9	61	11	80	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	8	NA	10	NA	13	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	9	NA	11	NA	15	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Bearmouth (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,163	3,163	4,043	4,043	5,234	5,234	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,582	1,582	2,021	2,021	2,617	2,617	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,938	3,938	5,033	5,033	6,517	6,517	Traffic Count Site 20-1-7 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	127	16	162	21	210	27	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	85	11	108	14	140	18	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.12%	79.12%	79.12%	79.12%	79.12%	79.12%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.61%	41.75%	14.61%	41.75%	14.61%	41.75%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	67	9	86	12	111	15	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	13	5	16	6	21	8	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	80	14	102	18	132	23	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	13	NA	16	NA	21	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	15	NA	19	NA	24	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	6	NA	7	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	4	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	3	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Bozeman Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	20,400	20,400	35,440	35,440	61,568	61,568	Average of Traffic Count Sites 16-3A-39 & 16-3A-1
	Average Annual Daily Traffic (Trucks)	AADT _T	2,257	2,257	3,921	3,921	6,812	6,812	Average of Traffic Count Sites 16-3A-39 & 16-3A-1
	Peak Hour Volume	PHV	1,689	363	2,934	631	5,097	1,096	Average of Traffic Count Sites 16-3A-39 & 16-3A-1, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.04	0.04	0.04	0.04	0.04	0.04	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	69	15	119	26	207	45	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.94%	88.94%	88.94%	88.94%	88.94%	88.94%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.74%	22.13%	7.74%	22.13%	7.74%	22.13%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	61	13	106	23	184	40	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	5	3	9	6	16	10	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	66	16	115	29	200	50	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	12	NA	20	NA	34	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	11	6	18	10	31	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	6	NA	10	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	4	NA	6	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	4	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	6	NA	10	NA	18	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	5	NA	8	NA	13	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 2.80%

Bozeman Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,498	1,498	2,532	2,532	4,398	4,398	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	749	749	1,266	1,266	2,199	2,199	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	24,417	24,417	41,263	41,263	71,684	71,684	Average of Traffic Count Sites 16-3A-39 & 16-3A-1 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	52	11	88	19	152	33	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	35	7	58	13	101	22	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.94%	88.94%	88.94%	88.94%	88.94%	88.94%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.74%	22.13%	7.74%	22.13%	7.74%	22.13%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	31	7	52	12	91	20	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	3	2	5	3	8	5	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	34	9	57	15	99	25	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	10	NA	17	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	9	NA	16	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.80%

Bozeman Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	2,581	2,581	4,361	4,361	7,576	7,576	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	1,290	1,290	2,180	2,180	3,788	3,788	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	24,417	24,417	41,263	41,263	71,684	71,684	Average of Traffic Count Sites 16-3A-39 & 16-3A-1 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	89	19	151	32	262	56	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	60	13	101	22	175	38	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.94%	88.94%	88.94%	88.94%	88.94%	88.94%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.74%	22.13%	7.74%	22.13%	7.74%	22.13%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	53	12	90	20	156	34	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	5	3	8	5	14	9	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	58	15	98	25	170	43	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	10	NA	17	NA	29	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	9	NA	15	NA	27	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	5	NA	9	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	3	NA	5	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	4	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.80%

Bozeman Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	7,735	7,735	13,072	13,072	22,709	22,709	Door Count Data Provided by MDT
	Peak Daily People	PDP	3,868	3,868	6,536	6,536	11,354	11,354	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	24,417	24,417	41,263	41,263	71,684	71,684	Average of Traffic Count Sites 16-3A-39 & 16-3A-1 Hourly Full Detail
	Peak Day Peak Hour People	PHP	268	57	452	97	785	169	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	178	38	301	65	524	113	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.94%	88.94%	88.94%	88.94%	88.94%	88.94%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.74%	22.13%	7.74%	22.13%	7.74%	22.13%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	159	35	269	58	466	101	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	14	9	24	15	41	25	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	173	44	293	73	507	126	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	30	NA	50	NA	86	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	27	NA	45	NA	79	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	9	NA	15	NA	26	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	5	NA	9	NA	16	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	4	NA	6	NA	10	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.80%

Bridger Rest Area - WTI Method

Description		Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes
DATA	Average Annual Daily Traffic	AADT	5,610	5,610	7,264	7,264	9,405	9,405	Traffic Count Site 5-3-24
	Average Annual Daily Traffic (Trucks)	AADT _t	464	464	601	601	778	778	Traffic Count Site 5-3-24
	Peak Hour Volume	PHV	501	104	649	135	840	174	Traffic Count Site 5-3-24, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.25	0.25	0.25	0.25	0.25	0.25	Guideline #1 (Rural Highway = 0.25, Interstate = 0.16)
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	126	26	163	34	210	44	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	91.73%	91.73%	91.73%	91.73%	91.73%	91.73%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	5.79%	16.54%	5.79%	16.54%	5.79%	16.54%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	116	24	150	31	193	40	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	7	4	9	6	12	7	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	123	28	159	37	205	47	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	20	NA	25	NA	33	NA	$N_c = (PHV * P * D_{c\%} * PF * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	4	7	4	9	6	12	$N_t = (PHV * P * D_{t\%} * PF * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	7	NA	8	NA	11	NA	$T = (UV * PF * D_2) / 30$
	Total Restroom Stalls - Women	T _w	4	NA	5	NA	7	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	3	NA	3	NA	4	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	10	NA	12	NA	16	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	7	NA	9	NA	12	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 1.3%

Broadus Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,080	2,080	3,408	3,408	5,585	5,585	Traffic Count Site 38-2-4
	Average Annual Daily Traffic (Trucks)	AADT _t	478	478	783	783	1,283	1,283	Traffic Count Site 38-2-4
	Peak Hour Volume	PHV	193	34	316	56	518	91	Traffic Count Site 38-2-4, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.08	0.08	0.08	0.08	0.08	0.08	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	15	3	25	5	40	8	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	77.02%	77.02%	77.02%	77.02%	77.02%	77.02%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.09%	45.96%	16.09%	45.96%	16.09%	45.96%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	12	2	19	4	31	6	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	2	1	4	2	6	4	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	14	3	23	6	37	10	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	4	NA	6	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	2	2	4	3	6	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	1	NA	2	NA	4	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	2	NA	3	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 2.50%

Broadus Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	322	322	515	515	844	844	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	161	161	257	257	422	422	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,497	2,497	3,992	3,992	6,541	6,541	Traffic Count Site 38-2-4 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	12	2	20	4	33	6	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	8	1	13	2	22	4	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	77.02%	77.02%	77.02%	77.02%	77.02%	77.02%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.09%	45.96%	16.09%	45.96%	16.09%	45.96%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	7	2	11	2	17	3	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	2	4	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	9	3	14	4	21	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	2	NA	3	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.50%

Broadus Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	498	498	795	795	1,303	1,303	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	249	249	398	398	652	652	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,497	2,497	3,992	3,992	6,541	6,541	Traffic Count Site 38-2-4 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	19	3	31	5	50	9	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	13	2	20	4	34	6	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	77.02%	77.02%	77.02%	77.02%	77.02%	77.02%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.09%	45.96%	16.09%	45.96%	16.09%	45.96%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	10	2	16	3	26	5	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	2	6	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	13	4	20	5	32	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	3	NA	5	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.50%

Broadus Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	875	875	1,398	1,398	2,291	2,291	Door Count Data Provided by MDT
	Peak Daily People	PDP	437	437	699	699	1,145	1,145	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,497	2,497	3,992	3,992	6,541	6,541	Traffic Count Site 38-2-4 Hourly Full Detail
	Peak Day Peak Hour People	PHP	34	6	54	10	89	16	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	23	4	36	6	59	10	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	77.02%	77.02%	77.02%	77.02%	77.02%	77.02%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.09%	45.96%	16.09%	45.96%	16.09%	45.96%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	18	4	28	5	46	9	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	4	2	6	3	10	5	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	22	6	34	8	56	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	5	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	3	NA	5	NA	8	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.50%

Clearwater Junction Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,580	2,580	4,146	4,146	6,662	6,662	Average of Traffic Count Sites 32-4-3 (W-132) & 32-4-4
	Average Annual Daily Traffic (Trucks)	AADT _T	240	240	386	386	620	620	Average of Traffic Count Sites 32-4-3 (W-132) & 32-4-4
	Peak Hour Volume	PHV	216	26	347	42	558	67	Average of Traffic Count Sites 32-4-3 (W-132) & 32-4-4, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.19	0.19	0.19	0.19	0.19	0.19	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	41	5	65	8	104	13	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.70%	90.70%	90.70%	90.70%	90.70%	90.70%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	6.51%	18.60%	6.51%	18.60%	6.51%	18.60%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	37	5	59	7	94	12	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	3	1	4	1	7	2	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	40	6	63	8	101	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	10	NA	16	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	2	2	3	3	4	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	4	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	5	NA	8	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	4	NA	6	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 2.40%

Clearwater Junction Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	907	907	1,423	1,423	2,286	2,286	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	453	453	711	711	1,143	1,143	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,583	2,583	4,053	4,053	6,514	6,514	Average of Traffic Count Sites 32-4-3 (W-132) & 32-4-4 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	38	5	59	7	96	12	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	25	3	40	5	64	8	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.70%	90.70%	90.70%	90.70%	90.70%	90.70%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	6.51%	18.60%	6.51%	18.60%	6.51%	18.60%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	23	3	36	5	58	7	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	1	5	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	25	4	39	6	63	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	10	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	2	NA	3	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.40%

Clearwater Junction Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,491	1,491	2,340	2,340	3,760	3,760	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	746	746	1,170	1,170	1,880	1,880	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,583	2,583	4,053	4,053	6,514	6,514	Average of Traffic Count Sites 32-4-3 (W-132) & 32-4-4 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	62	8	98	12	157	19	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	42	5	65	8	105	13	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.70%	90.70%	90.70%	90.70%	90.70%	90.70%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	6.51%	18.60%	6.51%	18.60%	6.51%	18.60%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	38	5	60	8	96	12	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	1	5	2	7	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	41	6	65	10	103	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	10	NA	16	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	3	NA	4	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.40%

Clearwater Junction Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	2,641	2,641	4,144	4,144	6,660	6,660	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,321	1,321	2,072	2,072	3,330	3,330	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,583	2,583	4,053	4,053	6,514	6,514	Average of Traffic Count Sites 32-4-3 (W-132) & 32-4-4 Hourly Full Detail
	Peak Day Peak Hour People	PHP	110	13	173	21	278	34	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	74	9	116	14	186	22	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.70%	90.70%	90.70%	90.70%	90.70%	90.70%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	6.51%	18.60%	6.51%	18.60%	6.51%	18.60%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	67	9	105	13	169	21	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	5	2	8	3	13	5	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	72	11	113	16	182	26	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	12	NA	18	NA	29	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	3	NA	5	NA	7	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	6	NA	10	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	4	NA	6	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	4	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.40%

Columbus (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,930	4,930	7,044	7,044	10,064	10,064	Traffic Count Site 48-2-2 (W-120) Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _T	1,081	1,081	1,544	1,544	2,206	2,206	Traffic Count Site 48-2-2 (W-120) Eastbound Volume
	Peak Hour Volume	PHV	380	64	543	91	776	131	Traffic Count Site 48-2-2 (W-120), Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.11	0.11	0.11	0.11	0.11	0.11	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	41	7	58	10	83	14	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	32	5	45	8	65	11	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	6	3	9	4	13	6	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	38	8	54	12	78	17	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	9	NA	12	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	4	10	6	14	8	20	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	6	NA	8	NA	$PT = (N_c(D_{Day}) + N_t(D_{Night})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	5	NA	6	NA	$R = (N_c(D_{Day}) + N_t(D_{Night})) * 0.3$

¹ Compound Annual Growth Rate = 1.80%

Columbus (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,085	1,085	1,523	1,523	2,176	2,176	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	543	543	761	761	1,088	1,088	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,983	4,983	6,994	6,994	9,992	9,992	Traffic Count Site 48-2-2 (W-120) Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	41	7	58	10	83	14	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	28	5	39	7	55	9	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	22	4	31	6	44	8	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	5	3	6	3	9	5	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	27	7	37	9	53	13	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	8	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	9	NA	13	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.80%

Columbus (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,625	1,625	2,281	2,281	3,258	3,258	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	813	813	1,140	1,140	1,629	1,629	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,983	4,983	6,994	6,994	9,992	9,992	Traffic Count Site 48-2-2 (W-120) Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	62	10	87	15	124	21	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	41	7	58	10	83	14	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	33	6	46	8	65	11	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	7	4	9	5	13	7	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	40	10	55	13	78	18	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	9	NA	12	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	14	NA	20	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.80%

Columbus (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,196	3,196	4,486	4,486	6,409	6,409	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,598	1,598	2,243	2,243	3,204	3,204	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,983	4,983	6,994	6,994	9,992	9,992	Traffic Count Site 48-2-2 (W-120) Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	122	21	171	29	244	41	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	81	14	114	19	163	27	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	64	11	90	15	128	22	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	13	6	18	9	25	13	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	77	17	108	24	153	35	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	12	NA	17	NA	24	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	19	NA	27	NA	38	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	6	NA	8	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	4	NA	5	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	3	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.80%

Columbus (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,930	4,930	7,044	7,044	10,064	10,064	Traffic Count Site 48-2-2 (W-120) Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _T	1,081	1,081	1,544	1,544	2,206	2,206	Traffic Count Site 48-2-2 (W-120) Westbound Volume
	Peak Hour Volume	PHV	379	94	541	134	774	192	Traffic Count Site 48-2-2 (W-120), Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.08	0.08	0.08	0.08	0.08	0.08	$P = [(ASDD) / 2] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	33	8	46	12	66	17	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	26	6	36	9	52	13	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	5	4	7	5	10	7	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	31	10	43	14	62	20	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	10	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	11	4	16	6	23	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	4	NA	6	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	3	NA	5	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 1.80%

Columbus (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	779	779	1,093	1,093	1,562	1,562	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	390	390	547	547	781	781	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,879	4,879	6,848	6,848	9,783	9,783	Traffic Count Site 48-2-2 (W-120) Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	30	8	42	11	61	15	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	20	5	28	7	40	10	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	16	4	23	6	32	8	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	4	3	5	4	7	5	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	7	28	10	39	13	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	5	NA	6	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	10	NA	14	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.80%

Columbus (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,297	1,297	1,820	1,820	2,601	2,601	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	649	649	910	910	1,300	1,300	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,879	4,879	6,848	6,848	9,783	9,783	Traffic Count Site 48-2-2 (W-120) Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	50	12	71	18	101	25	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	34	8	47	12	67	17	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	27	7	37	10	53	14	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	6	4	8	6	11	8	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	33	11	45	16	64	22	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	10	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	12	NA	17	NA	23	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.80%

Columbus (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	2,507	2,507	3,519	3,519	5,027	5,027	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,254	1,254	1,759	1,759	2,514	2,514	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,879	4,879	6,848	6,848	9,783	9,783	Traffic Count Site 48-2-2 (W-120) Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	97	24	137	34	195	48	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	65	16	91	23	130	32	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.08%	78.08%	78.08%	78.08%	78.08%	78.08%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.34%	43.83%	15.34%	43.83%	15.34%	43.83%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	51	13	72	18	102	26	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	10	8	14	10	20	15	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	61	21	86	28	122	41	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	10	NA	14	NA	19	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	23	NA	32	NA	45	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	5	NA	7	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	3	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	3	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.80%

Conrad Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,630	3,630	5,085	5,085	7,124	7,124	Average of Traffic Count Sites 37-3-1 & 37-3-2
	Average Annual Daily Traffic (Trucks)	AADT _T	981	981	1,374	1,374	1,925	1,925	Average of Traffic Count Sites 37-3-1 & 37-3-2
	Peak Hour Volume	PHV	350	84	490	118	687	165	Average of Traffic Count Sites, Seasonally Adjusted 37-3-1 & 37-3-2
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.04	0.04	0.04	0.04	0.04	0.04	$P = [(ASDD) / 2] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	13	4	18	5	26	7	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.98%	72.98%	72.98%	72.98%	72.98%	72.98%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.92%	54.05%	18.92%	54.05%	18.92%	54.05%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	9	3	13	4	19	5	$D_c = D_{c\%} * PHV$
	Number of Trucks Stopping at Rest Area	D _t	2	2	3	3	5	4	$D_t = D_{t\%} * PHV$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	11	5	16	7	24	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	4	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	6	3	8	4	11	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	2	NA	3	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	2	NA	2	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 1.70%

Conrad Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	347	347	478	478	670	670	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	174	174	239	239	335	335	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,924	4,924	6,783	6,783	9,502	9,502	Average of Traffic Count Sites 37-3-1 & 37-3-2 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	12	3	17	4	24	6	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	8	2	11	3	16	4	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.98%	72.98%	72.98%	72.98%	72.98%	72.98%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.92%	54.05%	18.92%	54.05%	18.92%	54.05%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	6	2	9	2	12	3	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	2	3	2	4	3	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	8	4	12	4	16	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	5	NA	7	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Conrad Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	413	413	569	569	797	797	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	207	207	284	284	399	399	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,924	4,924	6,783	6,783	9,502	9,502	Average of Traffic Count Sites 37-3-1 & 37-3-2 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	15	4	20	5	28	7	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	10	2	13	3	19	5	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.98%	72.98%	72.98%	72.98%	72.98%	72.98%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.92%	54.05%	18.92%	54.05%	18.92%	54.05%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	8	2	10	3	14	4	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	2	2	3	2	4	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	10	4	13	5	18	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	5	NA	6	NA	9	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Conrad Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,204	1,204	1,659	1,659	2,324	2,324	Door Count Data Provided by MDT
	Peak Daily People	PDP	602	602	829	829	1,162	1,162	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,924	4,924	6,783	6,783	9,502	9,502	Average of Traffic Count Sites 37-3-1 & 37-3-2 Hourly Full Detail
	Peak Day Peak Hour People	PHP	43	10	59	14	83	20	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	29	7	39	9	55	13	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.98%	72.98%	72.98%	72.98%	72.98%	72.98%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.92%	54.05%	18.92%	54.05%	18.92%	54.05%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	5	29	7	41	10	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	6	4	8	6	11	8	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	27	9	37	13	52	18	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	13	NA	18	NA	25	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Culbertson Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,500	2,500	3,940	3,940	6,208	6,208	Traffic Count Site 43-5-25
	Average Annual Daily Traffic (Trucks)	AADT _t	691	691	1,089	1,089	1,716	1,716	Traffic Count Site 43-5-25
	Peak Hour Volume	PHV	190	66	299	104	472	164	Traffic Count Site 43-5-25, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.03	0.03	0.03	0.03	0.03	0.03	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	7	3	11	4	17	6	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.36%	72.36%	72.36%	72.36%	72.36%	72.36%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.35%	55.28%	19.35%	55.28%	19.35%	55.28%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	5	2	8	3	12	4	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	1	2	2	2	3	3	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	6	4	10	5	15	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	1	NA	2	NA	2	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	3	1	4	2	6	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	1	NA	1	NA	2	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	1	NA	1	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 2.30%

Culbertson Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	215	215	331	331	522	522	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	108	108	166	166	261	261	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,498	2,498	3,848	3,848	6,064	6,064	Traffic Count Site 43-5-25 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	8	3	13	4	20	7	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	5	2	8	3	13	5	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.36%	72.36%	72.36%	72.36%	72.36%	72.36%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.35%	55.28%	19.35%	55.28%	19.35%	55.28%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	4	2	7	3	10	4	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	2	2	2	3	3	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	6	4	9	5	13	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	1	NA	2	NA	2	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	3	NA	5	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.30%

Culbertson Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	271	271	417	417	658	658	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	136	136	209	209	329	329	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,498	2,498	3,848	3,848	6,064	6,064	Traffic Count Site 43-5-25 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	10	4	16	6	25	9	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	7	2	11	4	17	6	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.36%	72.36%	72.36%	72.36%	72.36%	72.36%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.35%	55.28%	19.35%	55.28%	19.35%	55.28%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	5	2	8	3	13	5	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	2	2	3	3	4	4	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	7	4	11	6	17	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	1	NA	2	NA	3	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	3	NA	4	NA	6	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.30%

Culbertson Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	548	548	844	844	1,330	1,330	Door Count Data Provided by MDT
	Peak Daily People	PDP	274	274	422	422	665	665	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,498	2,498	3,848	3,848	6,064	6,064	Traffic Count Site 43-5-25 Hourly Full Detail
	Peak Day Peak Hour People	PHP	21	7	32	11	51	18	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	14	5	21	7	34	12	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.36%	72.36%	72.36%	72.36%	72.36%	72.36%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.35%	55.28%	19.35%	55.28%	19.35%	55.28%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	11	4	16	6	25	9	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	3	3	5	5	7	7	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	14	7	21	11	32	16	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	5	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	5	NA	7	NA	11	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.30%

Cluster (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,450	4,450	6,065	6,065	8,265	8,265	Traffic Count Site 56-3-2 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	1,225	1,225	1,670	1,670	2,275	2,275	Traffic Count Site 56-3-2 Eastbound Volume
	Peak Hour Volume	PHV	214	48	292	65	397	89	Traffic Count Site 56-3-2, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.12	0.12	0.12	0.12	0.12	0.12	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	25	6	34	8	47	11	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	18	4	25	6	34	8	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	5	3	7	4	9	6	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	23	7	32	10	43	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	7	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	4	11	5	15	6	20	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	4	NA	5	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	3	NA	4	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.56%

Cluster (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	658	658	882	882	1,202	1,202	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	329	329	441	441	601	601	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,076	3,076	4,128	4,128	5,626	5,626	Traffic Count Site 56-3-2 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	23	5	31	7	42	9	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	15	3	20	5	28	6	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	12	3	15	4	21	5	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	3	6	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	15	5	19	7	27	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	9	NA	12	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.56%

Cluster (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	792	792	1,063	1,063	1,448	1,448	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	396	396	531	531	724	724	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,076	3,076	4,128	4,128	5,626	5,626	Traffic Count Site 56-3-2 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	28	6	37	8	50	11	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	18	4	25	6	34	8	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	14	3	18	5	25	6	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	4	3	5	4	7	5	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	18	6	23	9	32	11	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	11	NA	14	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.56%

Cluster (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,333	1,333	1,789	1,789	2,438	2,438	Door Count Data Provided by MDT
	Peak Daily People	PDP	667	667	894	894	1,219	1,219	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,076	3,076	4,128	4,128	5,626	5,626	Traffic Count Site 56-3-2 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	46	10	62	14	85	19	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	31	7	41	9	57	13	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	23	6	31	7	41	10	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	6	4	8	6	11	7	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	29	10	39	13	52	17	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	13	NA	18	NA	24	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.56%

Cluster (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,450	4,450	6,065	6,065	8,265	8,265	Traffic Count Site 56-3-2 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	1,225	1,225	1,670	1,670	2,275	2,275	Traffic Count Site 56-3-2 Westbound Volume
	Peak Hour Volume	PHV	216	48	294	65	401	89	Traffic Count Site 56-3-2, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.10	0.10	0.10	0.10	0.10	0.10	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	22	5	30	7	41	10	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	16	4	22	5	30	7	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	4	3	6	4	8	6	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	7	28	9	38	13	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	6	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	9	4	13	5	17	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	3	NA	4	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.56%

Cluster (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	546	546	732	732	998	998	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	273	273	366	366	499	499	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,996	2,996	4,020	4,020	5,479	5,479	Traffic Count Site 56-3-2 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	20	4	26	6	36	8	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	13	3	18	4	24	5	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	10	3	13	3	18	4	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	3	5	3	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	13	5	17	6	23	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	4	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	8	NA	10	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.56%

Cluster (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	690	690	926	926	1,262	1,262	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	345	345	463	463	631	631	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,996	2,996	4,020	4,020	5,479	5,479	Traffic Count Site 56-3-2 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	25	6	33	7	45	10	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	17	4	22	5	30	7	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	13	3	17	4	22	5	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	4	3	5	3	6	4	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	17	6	22	7	28	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	10	NA	13	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.56%

Cluster (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	972	972	1,304	1,304	1,778	1,778	Door Count Data Provided by MDT
	Peak Daily People	PDP	486	486	652	652	889	889	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,996	2,996	4,020	4,020	5,479	5,479	Traffic Count Site 56-3-2 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	35	8	47	10	64	14	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	23	5	31	7	43	9	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.47%	72.47%	72.47%	72.47%	72.47%	72.47%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.27%	55.06%	19.27%	55.06%	19.27%	55.06%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	17	4	23	6	31	7	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	5	3	7	4	9	6	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	22	7	30	10	40	13	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	13	NA	18	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.56%

Dearborn (North) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,720	1,720	2,099	2,099	2,561	2,561	Traffic Count Site 25-5-3 Northbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	400	400	488	488	596	596	Traffic Count Site 25-5-3 Northbound Volume
	Peak Hour Volume	PHV	182	34	222	41	271	51	Traffic Count Site 25-5-3, Seasonally Adjusted Northbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.14	0.14	0.14	0.14	0.14	0.14	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	27	5	32	6	39	8	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	4	25	5	30	6	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	4	2	5	3	6	4	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	25	6	30	8	36	10	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	8	4	10	4	12	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	4	NA	4	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	3	NA	3	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Dearborn (North) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	602	602	727	727	887	887	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	301	301	364	364	444	444	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,295	2,295	2,773	2,773	3,383	3,383	Traffic Count Site 25-5-3 Hourly Full Detail Northbound Volume
	Average Annual Peak Hour People	PHP _a	24	4	29	5	35	7	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	16	3	19	4	23	4	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	13	3	15	3	19	4	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	2	4	3	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	16	5	19	5	23	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	5	NA	6	NA	7	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Dearborn (North) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	749	749	904	904	1,103	1,103	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	374	374	452	452	552	552	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,295	2,295	2,773	2,773	3,383	3,383	Traffic Count Site 25-5-3 Hourly Full Detail Northbound Volume
	Average Summer Peak Hour People	PHP _s	30	6	36	7	44	8	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	20	4	24	4	29	5	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	16	3	19	4	23	5	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	4	2	4	3	5	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	5	23	7	28	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	7	NA	9	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Dearborn (North) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,114	1,114	1,345	1,345	1,641	1,641	Door Count Data Provided by MDT
	Peak Daily People	PDP	557	557	673	673	821	821	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,295	2,295	2,773	2,773	3,383	3,383	Traffic Count Site 25-5-3 Hourly Full Detail Northbound Volume
	Peak Day Peak Hour People	PHP	44	8	53	10	65	12	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	29	5	36	7	43	8	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	23	5	28	6	34	7	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	5	3	6	4	8	4	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	28	8	34	10	42	11	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	7	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	9	NA	11	NA	13	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Dearborn (South) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,720	1,720	2,099	2,099	2,561	2,561	Traffic Count Site 25-5-3 Southbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	400	400	488	488	596	596	Traffic Count Site 25-5-3 Southbound Volume
	Peak Hour Volume	PHV	179	29	218	35	267	43	Traffic Count Site 25-5-3, Seasonally Adjusted Southbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.12	0.12	0.12	0.12	0.12	0.12	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	22	4	27	5	33	6	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	17	3	21	4	25	5	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	4	2	4	2	5	3	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	21	5	25	6	30	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	4	NA	5	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	6	3	7	4	9	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	3	NA	4	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Dearborn (South) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	495	495	598	598	730	730	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	248	248	299	299	365	365	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,399	2,399	2,898	2,898	3,536	3,536	Traffic Count Site 25-5-3 Hourly Full Detail Southbound Volume
	Average Annual Peak Hour People	PHP _a	18	3	22	4	27	4	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	12	2	15	2	18	3	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	10	2	12	2	14	3	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	3	1	3	2	3	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	13	3	15	4	17	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	4	NA	5	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Dearborn (South) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	633	633	764	764	932	932	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	316	316	382	382	466	466	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,399	2,399	2,898	2,898	3,536	3,536	Traffic Count Site 25-5-3 Hourly Full Detail Southbound Volume
	Average Summer Peak Hour People	PHP _s	24	4	29	5	35	6	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	16	3	19	3	23	4	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	13	2	15	3	18	3	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	2	4	2	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	16	4	19	5	22	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	5	NA	6	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Dearborn (South) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,024	1,024	1,237	1,237	1,510	1,510	Door Count Data Provided by MDT
	Peak Daily People	PDP	512	512	619	619	755	755	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,399	2,399	2,898	2,898	3,536	3,536	Traffic Count Site 25-5-3 Hourly Full Detail Southbound Volume
	Peak Day Peak Hour People	PHP	38	6	46	7	56	9	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	25	4	31	5	38	6	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	76.74%	76.74%	76.74%	76.74%	76.74%	76.74%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.28%	46.51%	16.28%	46.51%	16.28%	46.51%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	20	4	24	4	29	5	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	5	2	6	3	7	3	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	25	6	30	7	36	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	8	NA	10	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Dena Mora (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,200	3,200	4,626	4,626	6,688	6,688	Traffic Count Site 31-1-1 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	880	880	1,272	1,272	1,839	1,839	Traffic Count Site 31-1-1 Eastbound Volume
	Peak Hour Volume	PHV	346	86	500	124	723	180	Traffic Count Site 31-1-1, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.27	0.27	0.27	0.27	0.27	0.27	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	94	24	136	34	197	49	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	68	17	99	25	143	36	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	18	13	26	19	38	27	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	86	30	125	44	181	63	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	13	NA	19	NA	27	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	11	41	15	59	22	84	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	5	NA	7	NA	10	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	3	NA	4	NA	6	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	3	NA	4	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	10	NA	14	NA	20	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	7	NA	10	NA	15	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.86%

Dena Mora (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,477	1,477	2,096	2,096	3,030	3,030	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	738	738	1,048	1,048	1,515	1,515	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,753	4,753	6,746	6,746	9,752	9,752	Traffic Count Site 31-1-1 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	54	13	76	19	110	27	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	36	9	51	13	74	18	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	26	7	37	10	54	14	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	7	5	10	7	15	11	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	33	12	47	17	69	25	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	10	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	16	NA	22	NA	32	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.86%

Dena Mora (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	2,677	2,677	3,799	3,799	5,492	5,492	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	1,338	1,338	1,899	1,899	2,746	2,746	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,753	4,753	6,746	6,746	9,752	9,752	Traffic Count Site 31-1-1 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	97	24	138	34	200	50	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	65	16	92	23	133	33	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	48	12	67	17	97	25	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	13	9	18	13	26	19	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	61	21	85	30	123	44	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	9	NA	13	NA	18	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	28	NA	40	NA	58	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	5	NA	7	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	3	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	3	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.86%

Dena Mora (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	4,342	4,342	6,162	6,162	8,908	8,908	Door Count Data Provided by MDT
	Peak Daily People	PDP	2,171	2,171	3,081	3,081	4,454	4,454	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,753	4,753	6,746	6,746	9,752	9,752	Traffic Count Site 31-1-1 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	158	39	224	56	324	81	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	105	26	150	37	216	54	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	77	19	109	27	157	39	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	21	15	29	21	42	30	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	98	34	138	48	199	69	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	15	NA	20	NA	29	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	46	NA	65	NA	93	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	5	NA	7	NA	10	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	3	NA	4	NA	6	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	3	NA	4	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.86%

Dena Mora (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,200	3,200	4,626	4,626	6,688	6,688	Traffic Count Site 31-1-1 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	880	880	1,272	1,272	1,839	1,839	Traffic Count Site 31-1-1 Westbound Volume
	Peak Hour Volume	PHV	317	61	458	88	663	127	Traffic Count Site 31-1-1, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.21	0.21	0.21	0.21	0.21	0.21	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	66	13	95	19	138	27	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	48	9	69	14	100	20	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	13	7	18	10	27	15	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	61	16	87	24	127	35	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	9	NA	13	NA	19	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	8	22	11	32	15	46	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	5	NA	7	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	3	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	3	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	7	NA	10	NA	14	NA	$PT = (N_c(D_{day}) + N_t(D_{day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	5	NA	7	NA	10	NA	$R = (N_c(D_{day}) + N_t(D_{day})) * 0.3$

¹ Compound Annual Growth Rate = 1.86%

Dena Mora (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,122	1,122	1,592	1,592	2,302	2,302	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	561	561	796	796	1,151	1,151	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,223	4,223	5,994	5,994	8,665	8,665	Traffic Count Site 31-1-1 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	42	8	60	12	86	17	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	28	5	40	8	58	11	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	4	29	6	42	9	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	3	8	5	12	7	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	27	7	37	11	54	16	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	8	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	14	NA	20	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.86%

Dena Mora (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	2,026	2,026	2,875	2,875	4,157	4,157	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	1,013	1,013	1,438	1,438	2,079	2,079	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,223	4,223	5,994	5,994	8,665	8,665	Traffic Count Site 31-1-1 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	76	15	108	21	156	30	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	51	10	72	14	104	20	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	37	8	53	11	76	15	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	10	6	14	8	21	12	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	47	14	67	19	97	27	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	10	NA	14	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	17	NA	24	NA	35	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.86%

Dena Mora (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,817	3,817	5,417	5,417	7,832	7,832	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,909	1,909	2,709	2,709	3,916	3,916	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,223	4,223	5,994	5,994	8,665	8,665	Traffic Count Site 31-1-1 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	143	28	203	39	294	57	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	96	18	136	26	196	38	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.50%	72.50%	72.50%	72.50%	72.50%	72.50%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.25%	55.00%	19.25%	55.00%	19.25%	55.00%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	70	14	99	19	143	28	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	19	11	27	15	38	21	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	89	25	126	34	181	49	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	13	NA	19	NA	27	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	32	NA	45	NA	65	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	5	NA	7	NA	10	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	3	NA	4	NA	6	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	3	NA	4	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.86%

Divide (North) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,800	1,800	2,312	2,312	2,970	2,970	Traffic Count Site 47-2-4 Northbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	366	366	470	470	603	603	Traffic Count Site 47-2-4 Northbound Volume
	Peak Hour Volume	PHV	139	21	179	27	229	35	Traffic Count Site 47-2-4, Seasonally Adjusted Northbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.20	0.20	0.20	0.20	0.20	0.20	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	28	5	36	6	46	7	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	22	4	29	5	37	6	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	4	2	5	2	7	3	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	26	6	34	7	44	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202		
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	7	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	6	4	8	5	10	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	4	NA	5	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	3	NA	4	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.26%

Divide (North) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	815	815	1,033	1,033	1,327	1,327	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	407	407	517	517	664	664	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,765	1,765	2,239	2,239	2,876	2,876	Traffic Count Site 47-2-4 Hourly Full Detail Northbound Volume
	Average Annual Peak Hour People	PHP _a	32	5	41	6	52	8	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	21	3	27	4	35	5	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	18	3	22	4	28	5	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	4	2	4	2	5	3	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	22	5	26	6	33	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202		
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	4	NA	6	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	5	NA	6	NA	8	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.26%

Divide (North) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,083	1,083	1,374	1,374	1,765	1,765	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	542	542	687	687	882	882	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,765	1,765	2,239	2,239	2,876	2,876	Traffic Count Site 47-2-4 Hourly Full Detail Northbound Volume
	Average Summer Peak Hour People	PHP _s	43	6	54	8	69	10	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	28	4	36	5	46	7	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	23	4	29	5	37	6	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	5	2	6	3	7	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	28	6	35	8	44	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202		
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	7	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	8	NA	10	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.26%

Divide (North) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,797	1,797	2,280	2,280	2,928	2,928	Door Count Data Provided by MDT
	Peak Daily People	PDP	899	899	1,140	1,140	1,464	1,464	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,765	1,765	2,239	2,239	2,876	2,876	Traffic Count Site 47-2-4 Hourly Full Detail Northbound Volume
	Peak Day Peak Hour People	PHP	71	11	90	14	115	17	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	47	7	60	9	77	12	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	38	6	48	8	62	10	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	7	3	9	4	11	5	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	45	9	57	12	73	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202		
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	9	NA	12	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	13	NA	16	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.26%

Divide (South) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,800	1,800	2,312	2,312	2,970	2,970	Traffic Count Site 47-2-4 Southbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	366	366	470	470	603	603	Traffic Count Site 47-2-4 Southbound Volume
	Peak Hour Volume	PHV	157	22	202	28	259	36	Traffic Count Site 47-2-4, Seasonally Adjusted Southbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.14	0.14	0.14	0.14	0.14	0.14	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	22	3	28	4	36	5	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	18	2	22	3	29	4	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	3	1	4	2	5	2	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	21	3	26	5	34	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	4	NA	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	2	5	3	6	4	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	$T_m = T * 0.4$	
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	3	NA	4	$PT = (N_c(Day) + N_t(Day)) * 0.4$	
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	$R = (N_c(Day) + N_t(Day)) * 0.3$	

¹ Compound Annual Growth Rate = 1.26%

Divide (South) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	484	484	614	614	789	789	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	242	242	307	307	394	394	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,844	1,844	2,339	2,339	3,005	3,005	Traffic Count Site 47-2-4 Hourly Full Detail Southbound Volume
	Average Annual Peak Hour People	PHP _a	21	3	26	4	34	5	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	14	2	17	2	22	3	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	11	2	14	2	18	3	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	1	4	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	13	3	17	3	22	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	3	NA	4	NA	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.26%

Divide (South) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	744	744	943	943	1,212	1,212	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	372	372	472	472	606	606	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,844	1,844	2,339	2,339	3,005	3,005	Traffic Count Site 47-2-4 Hourly Full Detail Southbound Volume
	Average Summer Peak Hour People	PHP _s	32	4	40	6	52	7	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	21	3	27	4	34	5	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	17	3	22	3	28	4	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	2	5	2	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	5	26	5	33	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	4	NA	6	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	5	NA	6	NA	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.26%

Divide (South) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,301	1,301	1,650	1,650	2,120	2,120	Door Count Data Provided by MDT
	Peak Daily People	PDP	651	651	825	825	1,060	1,060	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,844	1,844	2,339	2,339	3,005	3,005	Traffic Count Site 47-2-4 Hourly Full Detail Southbound Volume
	Peak Day Peak Hour People	PHP	55	8	70	10	90	13	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	37	5	47	7	60	8	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.69%	79.69%	79.69%	79.69%	79.69%	79.69%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.21%	40.61%	14.21%	40.61%	14.21%	40.61%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	30	5	38	6	48	7	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	6	3	7	3	9	4	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	36	8	45	9	57	11	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	9	NA	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.26%

Emigrant Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,670	1,670	2,038	2,038	2,486	2,486	Traffic Count Site 34-3-2 (A-20)
	Average Annual Daily Traffic (Trucks)	AADT _t	61	61	74	74	91	91	Traffic Count Site 34-3-2 (A-20)
	Peak Hour Volume	PHV	127	14	155	17	189	21	Traffic Count Site 34-3-2 (A-20), Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.28	0.28	0.28	0.28	0.28	0.28	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	36	4	44	5	53	6	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.35%	96.35%	96.35%	96.35%	96.35%	96.35%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.56%	7.31%	2.56%	7.31%	2.56%	7.31%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	35	4	42	5	51	6	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	1	0	1	0	1	0	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	36	4	43	5	52	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	1	1	1	1	1	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	3	NA	4	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Emigrant Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	360	360	435	435	531	531	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	180	180	217	217	265	265	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,670	1,670	2,018	2,018	2,462	2,462	Traffic Count Site 34-3-2 (A-20) Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	14	2	17	2	20	2	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	9	1	11	1	13	1	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.35%	96.35%	96.35%	96.35%	96.35%	96.35%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.56%	7.31%	2.56%	7.31%	2.56%	7.31%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	9	1	11	2	13	2	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	10	2	12	3	14	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Emigrant Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	707	707	854	854	1,042	1,042	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	354	354	427	427	521	521	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,670	1,670	2,018	2,018	2,462	2,462	Traffic Count Site 34-3-2 (A-20) Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	27	3	32	4	40	4	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	18	2	22	2	26	3	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.35%	96.35%	96.35%	96.35%	96.35%	96.35%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.56%	7.31%	2.56%	7.31%	2.56%	7.31%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	18	2	21	3	26	3	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	19	3	22	4	27	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Emigrant Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,320	1,320	1,594	1,594	1,945	1,945	Door Count Data Provided by MDT
	Peak Daily People	PDP	660	660	797	797	973	973	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,670	1,670	2,018	2,018	2,462	2,462	Traffic Count Site 34-3-2 (A-20) Hourly Full Detail
	Peak Day Peak Hour People	PHP	50	6	61	7	74	8	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	33	4	40	4	49	5	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.35%	96.35%	96.35%	96.35%	96.35%	96.35%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.56%	7.31%	2.56%	7.31%	2.56%	7.31%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	33	4	39	5	48	6	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	1	1	2	1	2	1	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	34	5	41	6	50	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Flowing Wells Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	330	330	403	403	491	491	Average of Traffic Count Sites 17-5-1 & 28-5-1
	Average Annual Daily Traffic (Trucks)	AADT _T	68	68	83	83	101	101	Average of Traffic Count Sites 17-5-1 & 28-5-1
	Peak Hour Volume	PHV	49	3	60	4	73	4	Average of Traffic Count Sites 17-5-1 & 28-5-1, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.72	0.72	0.72	0.72	0.72	0.72	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	36	3	44	3	53	4	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.39%	79.39%	79.39%	79.39%	79.39%	79.39%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.42%	41.21%	14.42%	41.21%	14.42%	41.21%	Guideline #3 Day = (AADT _T / AADT) * 0.7 Night = (AADT _T / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	29	2	35	2	42	3	$D_c = D_{c\%} * PHV$
	Number of Trucks Stopping at Rest Area	D _t	5	1	6	1	8	2	$D_t = D_{t\%} * PHV$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	34	3	41	3	50	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	7	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	2	3	2	4	3	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	4	NA	4	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	3	NA	3	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Flowing Wells Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	299	299	361	361	441	441	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	150	150	181	181	220	220	AADP = AADC / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	394	394	476	476	581	581	Average of Traffic Count Sites Hourly Full Detail 17-5-1 & 28-5-1
	Average Annual Peak Hour People	PHP _a	19	1	22	1	27	2	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	12	1	15	1	18	1	$PHV_a = PHV_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.39%	79.39%	79.39%	79.39%	79.39%	79.39%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.42%	41.21%	14.42%	41.21%	14.42%	41.21%	Guideline #3 Day = (AADT _T / AADT) * 0.7 Night = (AADT _T / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	10	1	12	1	15	1	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	1	3	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	12	2	15	2	18	2	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Flowing Wells Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	365	365	441	441	538	538	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	183	183	220	220	269	269	ASDP = ASDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	394	394	476	476	581	581	Average of Traffic Count Sites Hourly Full Detail 17-5-1 & 28-5-1
	Average Summer Peak Hour People	PHP _s	23	1	27	2	33	2	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	15	1	18	1	22	1	$PHV_s = PHV_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.39%	79.39%	79.39%	79.39%	79.39%	79.39%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.42%	41.21%	14.42%	41.21%	14.42%	41.21%	Guideline #3 Day = (AADT _T / AADT) * 0.7 Night = (AADT _T / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	13	1	15	1	18	2	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	1	3	1	4	1	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	16	2	18	2	22	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	3	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Flowing Wells Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	886	886	1,070	1,070	1,306	1,306	Door Count Data Provided by MDT
	Peak Daily People	PDP	443	443	535	535	653	653	PDP = PDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	394	394	476	476	581	581	Average of Traffic Count Sites Hourly Full Detail 17-5-1 & 28-5-1
	Peak Day Peak Hour People	PHP	55	3	67	4	81	5	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	37	2	44	3	54	3	$PHV_p = PHV_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	79.39%	79.39%	79.39%	79.39%	79.39%	79.39%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	14.42%	41.21%	14.42%	41.21%	14.42%	41.21%	Guideline #3 Day = (AADT _T / AADT) * 0.7 Night = (AADT _T / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	30	2	36	3	43	3	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	6	1	7	2	8	2	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	36	3	43	5	51	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	2	NA	3	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,025	4,025	4,911	4,911	5,993	5,993	Traffic Count Site 39-3-1 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	877	877	1,069	1,069	1,305	1,305	Traffic Count Site 39-3-1 Eastbound Volume
	Peak Hour Volume	PHV	463	73	565	89	689	109	Traffic Count Site 39-3-1, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.12	0.12	0.12	0.12	0.12	0.12	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	58	10	70	12	86	14	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	45	8	55	9	67	11	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	9	4	11	5	13	6	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	54	12	66	14	80	17	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	9	NA	11	NA	NA	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	5	13	7	16	8	19	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	6	NA	7	NA	8	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	4	NA	5	NA	6	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,178	1,178	1,423	1,423	1,736	1,736	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	589	589	711	711	868	868	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,573	5,573	6,733	6,733	8,215	8,215	Traffic Count Site 39-3-1 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	49	8	59	9	72	11	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	33	5	39	6	48	8	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	26	5	31	5	38	6	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	5	3	7	3	8	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	31	8	38	8	46	10	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	7	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	9	NA	11	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,515	1,515	1,830	1,830	2,233	2,233	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	757	757	915	915	1,116	1,116	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,573	5,573	6,733	6,733	8,215	8,215	Traffic Count Site 39-3-1 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	63	10	76	12	93	15	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	42	7	51	8	62	10	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	33	6	40	7	49	8	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	7	3	8	4	10	5	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	40	9	48	11	59	13	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	8	NA	9	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	11	NA	14	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,051	3,051	3,685	3,685	4,497	4,497	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,525	1,525	1,843	1,843	2,248	2,248	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,573	5,573	6,733	6,733	8,215	8,215	Traffic Count Site 39-3-1 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	127	20	153	24	187	29	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	84	13	102	16	125	20	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	67	11	80	13	98	16	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	13	6	16	8	19	9	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	80	17	96	21	117	25	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	13	NA	15	NA	18	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	19	NA	22	NA	27	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	5	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	3	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	4,025	4,025	4,911	4,911	5,993	5,993	Traffic Count Site 39-3-1 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	877	877	1,069	1,069	1,305	1,305	Traffic Count Site 39-3-1 Westbound Volume
	Peak Hour Volume	PHV	424	81	517	99	631	121	Traffic Count Site 39-3-1, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.15	0.15	0.15	0.15	0.15	0.15	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	63	12	77	15	94	18	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	49	9	60	12	74	14	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	10	5	12	7	14	8	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	59	14	72	19	88	22	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	9	NA	11	NA	NA	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	6	17	7	20	9	25	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	6	NA	7	NA	9	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	5	NA	5	NA	7	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,463	1,463	1,767	1,767	2,156	2,156	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	731	731	883	883	1,078	1,078	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,407	5,407	6,532	6,532	7,971	7,971	Traffic Count Site 39-3-1 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	57	11	69	13	85	16	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	38	7	46	9	56	11	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	30	6	37	7	45	9	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	4	8	4	9	5	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	36	10	45	11	54	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	13	NA	15	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,811	1,811	2,187	2,187	2,669	2,669	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	905	905	1,094	1,094	1,334	1,334	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,407	5,407	6,532	6,532	7,971	7,971	Traffic Count Site 39-3-1 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	71	14	86	16	105	20	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	47	9	57	11	70	13	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	38	8	45	9	55	11	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	8	4	9	5	11	6	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	46	12	54	14	66	17	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	9	NA	11	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	13	NA	15	NA	19	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Gold Creek (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	2,836	2,836	3,426	3,426	4,181	4,181	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,418	1,418	1,713	1,713	2,090	2,090	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	5,407	5,407	6,532	6,532	7,971	7,971	Traffic Count Site 39-3-1 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	111	21	134	26	164	31	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	74	14	90	17	109	21	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	78.22%	78.22%	78.22%	78.22%	78.22%	78.22%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	15.24%	43.55%	15.24%	43.55%	15.24%	43.55%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	58	12	71	14	86	17	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	12	7	14	8	17	10	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	70	19	85	22	103	27	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	11	NA	13	NA	16	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	20	NA	24	NA	29	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	5	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	3	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Greycliff (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,915	3,915	4,777	4,777	5,829	5,829	Traffic Count Site 49-3-1 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	1,026	1,026	1,252	1,252	1,528	1,528	Traffic Count Site 49-3-1 Eastbound Volume
	Peak Hour Volume	PHV	290	62	354	76	432	92	Traffic Count Site 49-3-1, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.17	0.17	0.17	0.17	0.17	0.17	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	50	11	61	13	75	16	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	37	8	45	10	55	12	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	9	6	11	7	14	8	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	46	14	56	17	69	20	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	9	NA	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	6	18	7	22	8	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	3	NA	4	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	$T_m = T * 0.4$	
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	5	NA	6	NA	8	$PT = (N_c(D_{day}) + N_t(D_{day})) * 0.4$	
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	4	NA	5	NA	6	$R = (N_c(D_{day}) + N_t(D_{day})) * 0.3$	

¹ Compound Annual Growth Rate = 1.00%

Greycliff (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,318	1,318	1,592	1,592	1,943	1,943	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	659	659	796	796	971	971	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,032	4,032	4,871	4,871	5,944	5,944	Traffic Count Site 49-3-1 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	47	10	57	12	70	15	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	32	7	38	8	47	10	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	24	5	29	7	35	8	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	4	8	5	9	6	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	30	9	37	12	44	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	7	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	12	NA	14	NA	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.00%

Greycliff (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	2,035	2,035	2,459	2,459	3,000	3,000	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	1,018	1,018	1,229	1,229	1,500	1,500	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,032	4,032	4,871	4,871	5,944	5,944	Traffic Count Site 49-3-1 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	73	16	88	19	108	23	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	49	10	59	13	72	15	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	37	8	44	10	54	12	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	9	6	11	7	14	9	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	46	14	55	17	68	21	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	8	NA	10	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	18	NA	21	NA	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	3	NA	4	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.00%

Greycliff (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	2,837	2,837	3,427	3,427	4,182	4,182	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,419	1,419	1,714	1,714	2,091	2,091	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	4,032	4,032	4,871	4,871	5,944	5,944	Traffic Count Site 49-3-1 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	102	22	123	26	150	32	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	68	15	82	18	100	21	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	51	11	61	13	74	16	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	13	8	16	10	19	12	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	64	19	77	23	93	28	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	10	NA	12	NA	14	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	24	NA	29	NA	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	4	NA	5	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	2	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.00%

Greycliff (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,915	3,915	4,777	4,777	5,829	5,829	Traffic Count Site 49-3-1 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	1,026	1,026	1,252	1,252	1,528	1,528	Traffic Count Site 49-3-1 Westbound Volume
	Peak Hour Volume	PHV	298	52	364	63	444	77	Traffic Count Site 49-3-1, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.14	0.14	0.14	0.14	0.14	0.14	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	42	8	51	9	63	11	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	31	6	38	7	46	8	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	8	4	9	5	12	6	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	39	10	47	12	58	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	5	12	6	15	7	18	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	5	NA	6	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	4	NA	5	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Greycliff (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,032	1,032	1,247	1,247	1,521	1,521	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	516	516	623	623	761	761	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,815	3,815	4,609	4,609	5,624	5,624	Traffic Count Site 49-3-1 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	40	7	49	8	59	10	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	27	5	32	6	40	7	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	20	4	24	5	30	6	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	5	3	6	3	8	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	25	7	30	8	38	10	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	10	NA	12	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Greycliff (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,661	1,661	2,007	2,007	2,449	2,449	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	831	831	1,003	1,003	1,224	1,224	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,815	3,815	4,609	4,609	5,624	5,624	Traffic Count Site 49-3-1 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	65	11	78	14	96	17	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	43	8	52	9	64	11	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	32	6	39	7	48	9	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	8	4	10	5	12	6	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	40	10	49	12	60	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	8	NA	9	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	13	NA	15	NA	19	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Greycliff (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	2,698	2,698	3,259	3,259	3,977	3,977	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,349	1,349	1,630	1,630	1,989	1,989	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,815	3,815	4,609	4,609	5,624	5,624	Traffic Count Site 49-3-1 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	105	18	127	22	155	27	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	70	12	85	15	104	18	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.79%	73.79%	73.79%	73.79%	73.79%	73.79%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.34%	52.41%	18.34%	52.41%	18.34%	52.41%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	52	10	63	11	77	14	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	13	7	16	8	19	10	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	65	17	79	19	96	24	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	10	NA	12	NA	15	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	21	NA	25	NA	30	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	4	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Hardin (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,875	2,875	3,722	3,722	4,820	4,820	Traffic Count Site 2-1-4 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	761	761	985	985	1,275	1,275	Traffic Count Site 2-1-4 Eastbound Volume
	Peak Hour Volume	PHV	277	71	359	92	464	119	Traffic Count Site 2-1-4, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.13	0.13	0.13	0.13	0.13	0.13	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	38	10	49	13	63	16	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	28	7	36	10	46	12	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	7	5	9	7	12	8	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	35	12	45	17	58	20	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	4	16	6	21	7	27	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	5	NA	6	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	4	NA	5	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.30%

Hardin (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	719	719	919	919	1,190	1,190	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	360	360	459	459	595	595	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,910	3,910	4,998	4,998	6,471	6,471	Traffic Count Site 2-1-4 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	25	7	33	8	42	11	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	17	4	22	6	28	7	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	13	4	16	5	21	6	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	4	3	5	3	6	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	17	7	21	8	27	10	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	10	NA	12	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Hardin (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,185	1,185	1,515	1,515	1,961	1,961	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	593	593	757	757	981	981	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,910	3,910	4,998	4,998	6,471	6,471	Traffic Count Site 2-1-4 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	42	11	54	14	69	18	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	28	7	36	9	46	12	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	6	27	7	35	9	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	6	4	7	5	9	7	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	27	10	34	12	44	16	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	7	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	12	NA	16	NA	20	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Hardin (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,642	1,642	2,099	2,099	2,717	2,717	Door Count Data Provided by MDT
	Peak Daily People	PDP	821	821	1,049	1,049	1,359	1,359	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,910	3,910	4,998	4,998	6,471	6,471	Traffic Count Site 2-1-4 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	58	15	74	19	96	25	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	39	10	50	13	64	16	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	29	8	37	10	48	13	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	8	6	10	7	12	9	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	37	14	47	17	60	22	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	17	NA	22	NA	28	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Hardin (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,875	2,875	3,722	3,722	4,820	4,820	Traffic Count Site 2-1-4 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	761	761	985	985	1,275	1,275	Traffic Count Site 2-1-4 Westbound Volume
	Peak Hour Volume	PHV	316	55	409	71	530	92	Traffic Count Site 2-1-4, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.09	0.09	0.09	0.09	0.09	0.09	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	29	5	37	7	48	9	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	4	27	5	35	7	$D_c = D_{c\%} * PHV$
	Number of Trucks Stopping at Rest Area	D _t	5	3	7	4	9	5	$D_t = D_{t\%} * PHV$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	26	7	34	9	44	12	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	7	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	9	4	11	5	14	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	4	NA	5	NA	$PT = (N_c(2051) + N_t(2051)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	3	NA	4	NA	$R = (N_c(2051) + N_t(2051)) * 0.3$

¹ Compound Annual Growth Rate = 1.30%

Hardin (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	681	681	870	870	1,127	1,127	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	341	341	435	435	563	563	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,928	3,928	5,021	5,021	6,500	6,500	Traffic Count Site 2-1-4 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	27	5	35	6	45	8	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	18	3	23	4	30	5	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	14	3	18	3	23	4	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	4	2	5	3	6	3	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	18	5	23	6	29	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	7	NA	9	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Hardin (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	791	791	1,011	1,011	1,309	1,309	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	396	396	506	506	655	655	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,928	3,928	5,021	5,021	6,500	6,500	Traffic Count Site 2-1-4 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	32	6	41	7	53	9	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	21	4	27	5	35	6	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	16	3	20	4	26	5	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	4	2	6	3	7	4	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	5	26	7	33	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	8	NA	11	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Hardin (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,139	1,139	1,456	1,456	1,885	1,885	Door Count Data Provided by MDT
	Peak Daily People	PDP	570	570	728	728	942	942	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,928	3,928	5,021	5,021	6,500	6,500	Traffic Count Site 2-1-4 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	46	8	59	10	76	13	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	31	5	39	7	51	9	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	73.55%	73.55%	73.55%	73.55%	73.55%	73.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	18.52%	52.90%	18.52%	52.90%	18.52%	52.90%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	23	4	29	5	38	7	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	6	3	8	4	10	5	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	29	7	37	9	48	12	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	7	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	9	NA	12	NA	15	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Harlowton Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,200	2,200	3,400	3,400	5,254	5,254	Average of Traffic Count Sites 54-2-3 & 54-2-15
	Average Annual Daily Traffic (Trucks)	AADT _T	306	306	473	473	731	731	Average of Traffic Count Sites 54-2-3 & 54-2-15
	Peak Hour Volume	PHV	166	79	257	122	396	189	Average of Traffic Count Sites 54-2-3 & 54-2-15, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.26	0.26	0.26	0.26	0.26	0.26	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	44	21	67	32	104	50	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.09%	86.09%	86.09%	86.09%	86.09%	86.09%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.74%	27.82%	9.74%	27.82%	9.74%	27.82%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	38	18	58	28	90	43	$D_c = D_{c\%} * PHV$
	Number of Trucks Stopping at Rest Area	D _t	4	6	7	9	10	14	$D_t = D_{t\%} * PHV$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	42	24	65	37	100	57	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	10	NA	15	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	10	3	15	5	22	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	5	NA	8	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	4	NA	6	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 2.20%

Harlowton Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	654	654	989	989	1,528	1,528	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	327	327	494	494	764	764	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,369	2,369	3,582	3,582	5,535	5,535	Average of Traffic Count Sites 54-2-3 & 54-2-15 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	23	11	35	16	54	25	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	15	7	23	11	36	17	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.09%	86.09%	86.09%	86.09%	86.09%	86.09%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.74%	27.82%	9.74%	27.82%	9.74%	27.82%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	14	7	20	10	31	15	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	3	3	4	4	5	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	16	10	23	14	35	20	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	6	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	5	NA	8	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.20%

Harlowton Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	899	899	1,359	1,359	2,101	2,101	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	450	450	680	680	1,050	1,050	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,369	2,369	3,582	3,582	5,535	5,535	Average of Traffic Count Sites 54-2-3 & 54-2-15 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	31	15	48	23	74	35	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	21	10	32	15	49	23	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.09%	86.09%	86.09%	86.09%	86.09%	86.09%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.74%	27.82%	9.74%	27.82%	9.74%	27.82%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	19	9	28	14	43	21	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	3	4	5	5	7	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	22	12	32	19	48	28	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	8	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	5	NA	7	NA	11	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.20%

Harlowton Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	2,080	2,080	3,145	3,145	4,860	4,860	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,040	1,040	1,573	1,573	2,430	2,430	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,369	2,369	3,582	3,582	5,535	5,535	Average of Traffic Count Sites 54-2-3 & 54-2-15 Hourly Full Detail
	Peak Day Peak Hour People	PHP	73	35	110	52	170	81	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	49	23	73	35	114	54	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.09%	86.09%	86.09%	86.09%	86.09%	86.09%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.74%	27.82%	9.74%	27.82%	9.74%	27.82%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	42	20	64	31	98	47	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	5	7	8	10	12	16	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	47	27	72	41	110	63	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	11	NA	17	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	11	NA	16	NA	25	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.20%

Hathaway (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,345	2,345	3,285	3,285	4,602	4,602	Traffic Count Site 44-6-1 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	583	583	816	816	1,143	1,143	Traffic Count Site 44-6-1 Eastbound Volume
	Peak Hour Volume	PHV	188	28	263	39	369	55	Traffic Count Site 44-6-1, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.11	0.11	0.11	0.11	0.11	0.11	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	21	3	29	5	40	6	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.39%	49.68%	17.39%	49.68%	17.39%	49.68%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	16	2	22	4	30	5	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	4	1	5	2	7	3	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	3	27	6	37	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	6	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	3	5	4	7	5	10	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	3	NA	4	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.70%

Hathaway (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	531	531	731	731	1,025	1,025	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	266	266	366	366	512	512	AADP = AADC / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,395	2,395	3,299	3,299	4,622	4,622	Traffic Count Site 44-6-1 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	21	3	29	4	40	6	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	14	2	19	3	27	4	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.39%	49.68%	17.39%	49.68%	17.39%	49.68%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	11	2	15	3	21	4	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	2	5	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	14	4	19	5	26	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	4	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	5	NA	7	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Hathaway (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	770	770	1,061	1,061	1,486	1,486	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	385	385	530	530	743	743	ASDP = ASDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,395	2,395	3,299	3,299	4,622	4,622	Traffic Count Site 44-6-1 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	30	5	42	6	58	9	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	20	3	28	4	39	6	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.39%	49.68%	17.39%	49.68%	17.39%	49.68%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	16	3	21	4	30	5	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	4	2	5	3	7	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	5	26	7	37	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	6	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	7	NA	10	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Hathaway (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,227	1,227	1,690	1,690	2,367	2,367	Door Count Data Provided by MDT
	Peak Daily People	PDP	613	613	845	845	1,183	1,183	PDP = PDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,395	2,395	3,299	3,299	4,622	4,622	Traffic Count Site 44-6-1 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	48	7	66	10	93	14	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	32	5	44	7	62	9	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.39%	49.68%	17.39%	49.68%	17.39%	49.68%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	25	4	34	5	47	7	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	6	3	8	4	11	5	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	31	7	42	9	58	12	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	9	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	12	NA	16	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Hathaway (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,345	2,345	3,285	3,285	4,602	4,602	Traffic Count Site 44-6-1 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	583	583	816	816	1,143	1,143	Traffic Count Site 44-6-1 Westbound Volume
	Peak Hour Volume	PHV	167	37	234	52	328	73	Traffic Count Site 44-6-1, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.09	0.09	0.09	0.09	0.09	0.09	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	15	4	21	5	29	7	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.33%	46.66%	16.33%	46.66%	16.33%	46.66%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	11	3	16	4	22	5	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	2	2	3	2	5	3	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	13	5	19	6	27	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	6	3	8	3	11	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	2	NA	3	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	2	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.70%

Hathaway (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	467	467	643	643	901	901	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	234	234	322	322	451	451	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,303	2,303	3,172	3,172	4,444	4,444	Traffic Count Site 44-6-1 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	17	4	23	5	33	7	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	11	3	16	3	22	5	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.33%	46.66%	16.33%	46.66%	16.33%	46.66%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	9	2	12	3	17	4	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	2	3	2	4	3	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	11	4	15	5	21	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	4	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	6	NA	8	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Hathaway (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	632	632	871	871	1,220	1,220	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	316	316	435	435	610	610	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,303	2,303	3,172	3,172	4,444	4,444	Traffic Count Site 44-6-1 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	23	5	32	7	44	10	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	15	3	21	5	29	7	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.33%	46.66%	16.33%	46.66%	16.33%	46.66%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	12	3	16	4	23	5	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	3	5	4	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	15	5	20	7	28	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	8	NA	11	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Hathaway (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,127	1,127	1,552	1,552	2,175	2,175	Door Count Data Provided by MDT
	Peak Daily People	PDP	564	564	776	776	1,087	1,087	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,303	2,303	3,172	3,172	4,444	4,444	Traffic Count Site 44-6-1 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	41	9	56	12	79	17	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	27	6	38	8	53	12	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	75.16%	75.16%	75.16%	75.16%	75.16%	75.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	16.33%	46.66%	16.33%	46.66%	16.33%	46.66%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	5	29	7	40	9	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	5	3	7	4	9	6	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	26	8	36	11	49	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	14	NA	19	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.70%

Hysham (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,335	2,335	3,084	3,084	4,072	4,072	Traffic Count Site 52-2-2 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	660	660	872	872	1,151	1,151	Traffic Count Site 52-2-2 Eastbound Volume
	Peak Hour Volume	PHV	238	73	314	96	415	127	Traffic Count Site 52-2-2, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.15	0.15	0.15	0.15	0.15	0.15	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	36	12	48	15	63	20	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	26	9	34	11	45	14	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	7	7	9	8	12	11	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	33	16	43	19	57	25	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	9	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	5	21	6	28	8	37	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	5	NA	7	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	4	NA	5	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.40%

Hysham (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	841	841	1,095	1,095	1,445	1,445	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	420	420	547	547	723	723	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,313	3,313	4,315	4,315	5,698	5,698	Traffic Count Site 52-2-2 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	30	9	39	12	52	16	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	20	6	26	8	35	11	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	15	5	19	6	25	8	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	4	4	6	5	7	7	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	19	9	25	11	32	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	12	NA	16	NA	21	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Hysham (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,081	1,081	1,408	1,408	1,859	1,859	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	541	541	704	704	930	930	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,313	3,313	4,315	4,315	5,698	5,698	Traffic Count Site 52-2-2 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	39	12	51	16	67	20	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	26	8	34	10	45	14	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	19	6	25	8	32	10	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	6	5	7	6	9	8	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	25	11	32	14	41	18	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	16	NA	20	NA	26	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Hysham (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,546	1,546	2,013	2,013	2,659	2,659	Door Count Data Provided by MDT
	Peak Daily People	PDP	773	773	1,007	1,007	1,329	1,329	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,313	3,313	4,315	4,315	5,698	5,698	Traffic Count Site 52-2-2 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	56	17	72	22	96	29	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	37	11	48	15	64	20	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	27	9	35	11	46	15	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	8	7	10	9	13	12	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	35	16	45	20	59	27	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	9	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	22	NA	29	NA	38	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Hysham (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,335	2,335	3,084	3,084	4,072	4,072	Traffic Count Site 52-2-2 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	660	660	872	872	1,151	1,151	Traffic Count Site 52-2-2 Westbound Volume
	Peak Hour Volume	PHV	218	45	288	59	380	78	Traffic Count Site 52-2-2, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.17	0.17	0.17	0.17	0.17	0.17	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	37	8	48	10	64	14	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	27	6	34	7	46	10	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	7	5	9	6	13	8	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	34	11	43	13	59	18	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	9	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	5	15	6	19	8	25	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	5	NA	7	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	4	NA	5	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 1.40%

Hysham (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	916	916	1,193	1,193	1,575	1,575	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	458	458	596	596	788	788	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,064	3,064	3,990	3,990	5,269	5,269	Traffic Count Site 52-2-2 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	33	7	42	9	56	12	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	22	4	28	6	37	8	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	16	4	21	5	27	6	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	5	3	6	4	8	5	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	21	7	27	9	35	11	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	9	NA	12	NA	15	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Hysham (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,187	1,187	1,545	1,545	2,041	2,041	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	593	593	773	773	1,020	1,020	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,064	3,064	3,990	3,990	5,269	5,269	Traffic Count Site 52-2-2 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	42	9	55	11	73	15	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	28	6	37	8	48	10	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	5	27	6	35	8	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	6	4	8	5	10	6	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	27	9	35	11	45	14	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	7	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	12	NA	15	NA	20	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Hysham (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,630	1,630	2,122	2,122	2,802	2,802	Door Count Data Provided by MDT
	Peak Daily People	PDP	815	815	1,061	1,061	1,401	1,401	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,064	3,064	3,990	3,990	5,269	5,269	Traffic Count Site 52-2-2 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	58	12	75	16	100	21	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	39	8	50	10	66	14	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	71.73%	71.73%	71.73%	71.73%	71.73%	71.73%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.79%	56.53%	19.79%	56.53%	19.79%	56.53%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	28	6	37	8	48	10	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	8	5	10	6	14	8	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	36	11	47	14	62	18	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	16	NA	20	NA	27	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.40%

Jefferson City (North) Rest Area - WTI Method

Description		Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes
DATA	Average Annual Daily Traffic	AADT	2,030	2,030	2,477	2,477	3,022	3,022	Traffic Count Site 22-2-14 Northbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	311	311	379	379	463	463	Traffic Count Site 22-2-14 Northbound Volume
	Peak Hour Volume	PHV	192	46	234	56	286	68	Traffic Count Site 22-2-14, Seasonally Adjusted Northbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.16	0.16	0.16	0.16	0.16	0.16	Guideline #1 (Rural Highway = 0.25, Interstate = 0.16)
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	31	8	38	9	46	11	D ₁ = PHV * P
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	84.68%	84.68%	84.68%	84.68%	84.68%	84.68%	D _{c%} = (AADT - AADT _t) / AADT
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	10.72%	30.64%	10.72%	30.64%	10.72%	30.64%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	26	7	32	8	39	9	D _c = D _{c%} * D ₁
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	3	5	3	D _t = D _{t%} * D ₁
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	29	9	36	11	44	12	D ₂ = D _c + D _t
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	8	NA	N _c = (PHV * P * D _{c%} * PF * VHS _c) / 60
	Parking Spaces for Trucks (Night Controls)	N _t	3	8	3	10	4	12	N _t = (PHV * P * D _{t%} * PF * VHS _t) / 60
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	T = (UV * PF * D ₂) / 30
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	T _w = T * 0.6
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	T _m = T * 0.4
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	4	NA	5	NA	PT = (N _{c(Day)} + N _{t(Day)}) * 0.4
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	3	NA	4	NA	R = (N _{c(Day)} + N _{t(Day)}) * 0.3

¹ Compound Annual Growth Rate = 1.0%

Jefferson City (South) Rest Area - WTI Method

Description		Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes
DATA	Average Annual Daily Traffic	AADT	2,030	2,030	2,477	2,477	3,022	3,022	Traffic Count Site 22-2-14 Southbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	311	311	379	379	463	463	Traffic Count Site 22-2-14 Southbound Volume
	Peak Hour Volume	PHV	227	43	277	52	338	64	Traffic Count Site 22-2-14, Seasonally Adjusted Southbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.16	0.16	0.16	0.16	0.16	0.16	Guideline #1 (Rural Highway = 0.25, Interstate = 0.16)
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	37	7	45	9	55	11	D ₁ = PHV * P
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	84.68%	84.68%	84.68%	84.68%	84.68%	84.68%	D _{c%} = (AADT - AADT _t) / AADT
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	10.72%	30.64%	10.72%	30.64%	10.72%	30.64%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	31	6	38	8	47	9	D _c = D _{c%} * D ₁
	Number of Trucks Stopping at Rest Area	D _t	4	2	5	3	6	3	D _t = D _{t%} * D ₁
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	35	8	43	11	53	12	D ₂ = D _c + D _t
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	9	NA	N _c = (PHV * P * D _{c%} * PF * VHS _c) / 60
	Parking Spaces for Trucks (Night Controls)	N _t	3	8	4	9	4	11	N _t = (PHV * P * D _{t%} * PF * VHS _t) / 60
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	T = (UV * PF * D ₂) / 30
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	T _w = T * 0.6
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	T _m = T * 0.4
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	4	NA	5	NA	PT = (N _{c(Day)} + N _{t(Day)}) * 0.4
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	3	NA	4	NA	R = (N _{c(Day)} + N _{t(Day)}) * 0.3

¹ Compound Annual Growth Rate = 1.0%

Lima Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,060	3,060	4,729	4,729	7,307	7,307	Average of Traffic Count Sites 1-8-1 (A-17) & 1-8-2
	Average Annual Daily Traffic (Trucks)	AADT _T	833	833	1,287	1,287	1,989	1,989	Average of Traffic Count Sites 1-8-1 (A-17) & 1-8-2
	Peak Hour Volume	PHV	285	57	440	88	681	136	Average of Traffic Count Sites 1-8-1 (A-17) & 1-8-2, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.18	0.18	0.18	0.18	0.18	0.18	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	52	11	80	16	123	25	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.78%	72.78%	72.78%	72.78%	72.78%	72.78%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.06%	54.44%	19.06%	54.44%	19.06%	54.44%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	38	8	58	12	90	18	$D_c = D_{c\%} * PHV$
	Number of Trucks Stopping at Rest Area	D _t	10	6	15	9	23	14	$D_t = D_{t\%} * PHV$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	48	14	73	21	113	32	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	11	NA	17	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	7	19	10	30	15	45	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	6	NA	8	NA	13	NA	$PT = (N_c(D_{Day}) + N_t(D_{Night})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	4	NA	6	NA	10	NA	$R = (N_c(D_{Day}) + N_t(D_{Night})) * 0.3$

¹ Compound Annual Growth Rate = 2.20%

Lima Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,134	1,134	1,714	1,714	2,649	2,649	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	567	567	857	857	1,324	1,324	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,642	3,642	5,507	5,507	8,510	8,510	Average of Traffic Count Sites 1-8-1 (A-17) & 1-8-2 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	44	9	67	13	104	21	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	30	6	45	9	69	14	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.78%	72.78%	72.78%	72.78%	72.78%	72.78%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.06%	54.44%	19.06%	54.44%	19.06%	54.44%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	22	5	33	7	51	11	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	4	9	5	14	8	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	28	9	42	12	65	19	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	10	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	11	NA	17	NA	26	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.20%

Lima Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,708	1,708	2,583	2,583	3,991	3,991	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	854	854	1,291	1,291	1,995	1,995	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,642	3,642	5,507	5,507	8,510	8,510	Average of Traffic Count Sites 1-8-1 (A-17) & 1-8-2 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	67	13	101	20	156	31	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	45	9	67	13	104	21	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.78%	72.78%	72.78%	72.78%	72.78%	72.78%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.06%	54.44%	19.06%	54.44%	19.06%	54.44%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	33	7	50	10	76	16	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	9	5	13	8	20	12	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	42	12	63	18	96	28	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	9	NA	14	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	17	NA	25	NA	39	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.20%

Lima Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,646	3,646	5,512	5,512	8,518	8,518	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,823	1,823	2,756	2,756	4,259	4,259	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,642	3,642	5,507	5,507	8,510	8,510	Average of Traffic Count Sites 1-8-1 (A-17) & 1-8-2 Hourly Full Detail
	Peak Day Peak Hour People	PHP _p	143	29	216	43	333	67	$PHP_p = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	95	19	144	29	222	44	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.78%	72.78%	72.78%	72.78%	72.78%	72.78%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.06%	54.44%	19.06%	54.44%	19.06%	54.44%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	70	14	105	21	162	33	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	19	11	28	16	43	25	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	89	25	133	37	205	58	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	13	NA	20	NA	30	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	35	NA	53	NA	82	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	5	NA	7	NA	11	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	3	NA	4	NA	7	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	3	NA	4	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.20%

Lost Trail Pass Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	710	710	866	866	1,057	1,057	Average of Traffic Count Sites 41-5-1 & 41-5-4
	Average Annual Daily Traffic (Trucks)	AADT _T	71	71	87	87	106	106	Average of Traffic Count Sites 41-5-1 & 41-5-4
	Peak Hour Volume	PHV	80	8	98	10	119	12	Average of Traffic Count Sites 41-5-1 & 41-5-4, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.33	0.33	0.33	0.33	0.33	0.33	$P = [(ASDD) / 2] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	27	3	32	4	39	4	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.00%	20.00%	7.00%	20.00%	7.00%	20.00%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	24	3	29	4	35	4	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	2	1	2	1	3	1	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	26	4	31	5	38	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	1	1	2	2	2	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	2	NA	3	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	2	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Lost Trail Pass Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	595	595	719	719	877	877	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	298	298	359	359	439	439	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	843	843	1,018	1,018	1,243	1,243	Average of Traffic Count Sites 41-5-1 & 41-5-4 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	28	3	34	3	42	4	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	19	2	23	2	28	3	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.00%	20.00%	7.00%	20.00%	7.00%	20.00%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	17	2	21	3	25	3	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	2	1	2	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	19	3	23	4	27	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Lost Trail Pass Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	704	704	851	851	1,038	1,038	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	352	352	425	425	519	519	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	843	843	1,018	1,018	1,243	1,243	Average of Traffic Count Sites 41-5-1 & 41-5-4 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	33	3	40	4	49	5	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	22	2	27	3	33	3	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.00%	20.00%	7.00%	20.00%	7.00%	20.00%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	21	3	25	3	30	3	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	2	1	2	1	3	1	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	23	4	27	4	33	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	2	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Lost Trail Pass Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,122	1,122	1,355	1,355	1,654	1,654	Door Count Data Provided by MDT
	Peak Daily People	PDP	561	561	678	678	827	827	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	843	843	1,018	1,018	1,243	1,243	Average of Traffic Count Sites 41-5-1 & 41-5-4 Hourly Full Detail
	Peak Day Peak Hour People	PHP	53	5	64	6	78	8	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	35	4	43	4	52	5	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	7.00%	20.00%	7.00%	20.00%	7.00%	20.00%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	32	4	39	4	48	5	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	3	1	4	1	4	2	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	35	5	43	5	52	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	6	NA	7	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	2	NA	2	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Mosby Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	570	570	898	898	1,415	1,415	Traffic Count Site 17-6-1
	Average Annual Daily Traffic (Trucks)	AADT _t	66	66	104	104	164	164	Traffic Count Site 17-6-1
	Peak Hour Volume	PHV	59	13	93	20	147	32	Traffic Count Site 17-6-1, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.34	0.34	0.34	0.34	0.34	0.34	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	20	5	32	7	50	11	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.42%	88.42%	88.42%	88.42%	88.42%	88.42%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	8.11%	23.16%	8.11%	23.16%	8.11%	23.16%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	18	4	28	6	44	10	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	2	4	3	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	5	31	8	48	13	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	5	NA	8	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	2	2	3	2	5	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	3	NA	4	NA	$PT = (N_c(D_{Day}) + N_t(D_{Night})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	2	NA	3	NA	$R = (N_c(D_{Day}) + N_t(D_{Night})) * 0.3$

¹ Compound Annual Growth Rate = 2.30%

Mosby Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	366	366	563	563	887	887	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	183	183	282	282	444	444	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	673	673	1,037	1,037	1,634	1,634	Traffic Count Site 17-6-1 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	16	4	25	5	39	9	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	11	2	16	4	26	6	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.42%	88.42%	88.42%	88.42%	88.42%	88.42%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	8.11%	23.16%	8.11%	23.16%	8.11%	23.16%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	10	3	15	4	23	6	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	1	1	2	1	3	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	11	4	17	5	26	8	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	4	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	2	NA	3	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.30%

Mosby Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	598	598	920	920	1,450	1,450	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	299	299	460	460	725	725	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	673	673	1,037	1,037	1,634	1,634	Traffic Count Site 17-6-1 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	26	6	40	9	64	14	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	17	4	27	6	42	9	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.42%	88.42%	88.42%	88.42%	88.42%	88.42%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	8.11%	23.16%	8.11%	23.16%	8.11%	23.16%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	16	4	24	6	38	9	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	2	4	3	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	18	5	27	8	42	12	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	7	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	3	NA	4	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.30%

Mosby Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,498	1,498	2,307	2,307	3,635	3,635	Door Count Data Provided by MDT
	Peak Daily People	PDP	749	749	1,153	1,153	1,818	1,818	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	673	673	1,037	1,037	1,634	1,634	Traffic Count Site 17-6-1 Hourly Full Detail
	Peak Day Peak Hour People	PHP	66	14	101	22	159	35	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	44	10	67	15	106	23	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	88.42%	88.42%	88.42%	88.42%	88.42%	88.42%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	8.11%	23.16%	8.11%	23.16%	8.11%	23.16%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	39	9	60	14	94	21	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	4	3	6	4	9	6	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	43	12	66	18	103	27	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	10	NA	16	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	6	NA	9	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	6	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	4	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.30%

Quartz Flats (East) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,140	3,140	4,313	4,313	5,925	5,925	Traffic Count Site 31-2-6 Eastbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	799	799	1,098	1,098	1,508	1,508	Traffic Count Site 31-2-6 Eastbound Volume
	Peak Hour Volume	PHV	243	46	334	63	459	87	Traffic Count Site 31-2-6, Seasonally Adjusted Eastbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.22	0.22	0.22	0.22	0.22	0.22	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	53	10	73	14	100	19	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	40	7	54	10	75	14	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	9	5	13	7	18	10	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	49	12	67	17	93	24	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	8	NA	10	NA	NA	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	6	16	8	22	11	31	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	6	NA	7	NA	10	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	4	NA	5	NA	8	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.60%

Quartz Flats (East) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,272	1,272	1,720	1,720	2,362	2,362	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	636	636	860	860	1,181	1,181	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,157	3,157	4,268	4,268	5,863	5,863	Traffic Count Site 31-2-6 Hourly Full Detail Eastbound Volume
	Average Annual Peak Hour People	PHP _a	49	9	66	13	91	17	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	33	6	44	8	61	11	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	25	5	33	7	46	9	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	4	8	5	11	6	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	31	9	41	12	57	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	7	NA	9	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	14	NA	19	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.60%

Quartz Flats (East) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	2,096	2,096	2,834	2,834	3,893	3,893	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	1,048	1,048	1,417	1,417	1,946	1,946	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,157	3,157	4,268	4,268	5,863	5,863	Traffic Count Site 31-2-6 Hourly Full Detail Eastbound Volume
	Average Summer Peak Hour People	PHP _s	81	15	109	21	150	28	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	54	10	73	14	100	19	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	41	8	55	11	75	15	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	10	6	13	8	18	10	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	51	14	68	19	93	25	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	8	NA	10	NA	14	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	17	NA	22	NA	31	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.60%

Quartz Flats (East) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	5,163	5,163	6,980	6,980	9,589	9,589	Door Count Data Provided by MDT
	Peak Daily People	PDP	2,582	2,582	3,490	3,490	4,794	4,794	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,157	3,157	4,268	4,268	5,863	5,863	Traffic Count Site 31-2-6 Hourly Full Detail Eastbound Volume
	Peak Day Peak Hour People	PHP	199	38	269	51	369	70	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	132	25	179	34	246	47	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	99	19	134	26	184	35	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	24	13	32	18	44	24	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	123	32	166	44	228	59	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	19	NA	25	NA	34	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	40	NA	55	NA	75	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	7	NA	9	NA	12	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	4	NA	5	NA	7	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	3	NA	4	NA	5	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.60%

Quartz Flats (West) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	3,140	3,140	4,313	4,313	5,925	5,925	Traffic Count Site 31-2-6 Westbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	799	799	1,098	1,098	1,508	1,508	Traffic Count Site 31-2-6 Westbound Volume
	Peak Hour Volume	PHV	256	33	352	45	483	62	Traffic Count Site 31-2-6, Seasonally Adjusted Westbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.18	0.18	0.18	0.18	0.18	0.18	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	46	6	64	9	87	12	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	34	4	48	7	65	9	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	8	3	11	5	15	6	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	42	7	59	12	80	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	9	NA	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	5	10	7	13	9	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	3	NA	4	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	$T_m = T * 0.4$	
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	5	NA	6	NA	8	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$	
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	4	NA	5	NA	6	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$	

¹ Compound Annual Growth Rate = 1.60%

Quartz Flats (West) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,048	1,048	1,417	1,417	1,946	1,946	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	524	524	708	708	973	973	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,112	3,112	4,207	4,207	5,780	5,780	Traffic Count Site 31-2-6 Hourly Full Detail Westbound Volume
	Average Annual Peak Hour People	PHP _a	43	6	58	8	80	10	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	29	4	39	5	53	7	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	22	3	29	4	40	6	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	6	2	7	3	10	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	28	5	36	7	50	10	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	8	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	6	NA	8	NA	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.60%

Quartz Flats (West) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,733	1,733	2,343	2,343	3,218	3,218	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	867	867	1,172	1,172	1,609	1,609	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,112	3,112	4,207	4,207	5,780	5,780	Traffic Count Site 31-2-6 Hourly Full Detail Westbound Volume
	Average Summer Peak Hour People	PHP _s	71	9	96	12	132	17	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	48	6	64	8	88	11	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	36	5	48	7	66	9	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	9	4	12	5	16	6	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	45	9	60	12	82	15	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	7	NA	9	NA	13	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	14	NA	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	3	NA	5	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	2	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.60%

Quartz Flats (West) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	4,695	4,695	6,347	6,347	8,719	8,719	Door Count Data Provided by MDT
	Peak Daily People	PDP	2,347	2,347	3,174	3,174	4,359	4,359	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,112	3,112	4,207	4,207	5,780	5,780	Traffic Count Site 31-2-6 Hourly Full Detail Westbound Volume
	Peak Day Peak Hour People	PHP	193	25	261	34	359	46	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	129	17	174	22	239	31	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	74.55%	74.55%	74.55%	74.55%	74.55%	74.55%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	17.81%	50.89%	17.81%	50.89%	17.81%	50.89%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	96	13	130	17	179	23	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	23	9	32	12	43	16	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	119	22	162	29	222	39	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Greycliff (East) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	34	188	34	188	34	188	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	18	NA	24	NA	33	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$	
	Parking Spaces for Trucks (Night Controls)	N _t	NA	27	NA	36	NA	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$	
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	6	NA	9	NA	12	$T = (UV * D_2) / 30$	
	Total Restroom Stalls - Women	T _w	4	NA	5	NA	7	$T_w = T * 0.6$	
	Total Restroom Stalls - Men	T _m	2	NA	4	NA	5	$T_m = T * 0.4$	

¹ Compound Annual Growth Rate = 1.60%

Raynolds Pass Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	950	950	1,414	1,414	2,106	2,106	Traffic Count Site 29-6-2
	Average Annual Daily Traffic (Trucks)	AADT _t	179	179	267	267	397	397	Traffic Count Site 29-6-2
	Peak Hour Volume	PHV	102	8	152	12	226	18	Traffic Count Site 29-6-2, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.20	0.20	0.20	0.20	0.20	0.20	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	21	2	31	3	46	4	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	81.16%	81.16%	81.16%	81.16%	81.16%	81.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	13.19%	37.68%	13.19%	37.68%	13.19%	37.68%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	17	2	25	2	37	3	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	3	1	4	1	6	2	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	3	29	3	43	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	5	NA	7	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	1	2	2	3	3	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	3	NA	4	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 2.01%

Raynolds Pass Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	483	483	705	705	1,050	1,050	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	242	242	352	352	525	525	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,186	1,186	1,731	1,731	2,577	2,577	Traffic Count Site 29-6-2 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	21	2	30	2	45	4	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	14	1	20	2	30	2	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	81.16%	81.16%	81.16%	81.16%	81.16%	81.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	13.19%	37.68%	13.19%	37.68%	13.19%	37.68%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	12	1	17	2	25	2	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	1	4	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	14	2	20	3	29	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	5	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	2	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.01%

Raynolds Pass Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	593	593	865	865	1,288	1,288	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	296	296	432	432	644	644	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,186	1,186	1,731	1,731	2,577	2,577	Traffic Count Site 29-6-2 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	25	2	37	3	55	4	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	17	1	25	2	37	3	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	81.16%	81.16%	81.16%	81.16%	81.16%	81.16%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	13.19%	37.68%	13.19%	37.68%	13.19%	37.68%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	14	2	21	2	30	3	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	1	4	1	5	2	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	17	3	25	3	35	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	5	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	2	NA	2	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.01%

Raynolds Pass Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	949	949	1,384	1,384	2,061	2,061	Door Count Data Provided by MDT
	Peak Daily People	PDP	474	474	692	692	1,031	1,031	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,186	1,186	1,731	1,731	2,577	2,577	Traffic Count Site 29-6-2 Hourly Full Detail
	Peak Day Peak Hour People	PHP	41	3	60	5	89	7	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	27	2	40	3	59	5	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	81.16%	81.16%	81.16%	81.16%	81.16%	81.16%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	13.19%	37.68%	13.19%	37.68%	13.19%	37.68%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	23	2	33	3	48	4	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	4	1	6	2	8	2	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	27	3	39	5	56	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	6	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	2	NA	3	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.01%

Roberts Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,630	2,630	4,226	4,226	6,791	6,791	Traffic Count Site 5-1-5
	Average Annual Daily Traffic (Trucks)	AADT _t	93	93	149	149	240	240	Traffic Count Site 5-1-5
	Peak Hour Volume	PHV	265	32	426	51	684	83	Traffic Count Site 5-1-5, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.03	0.03	0.03	0.03	0.03	0.03	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	9	2	14	2	22	3	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.46%	96.46%	96.46%	96.46%	96.46%	96.46%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.48%	7.07%	2.48%	7.07%	2.48%	7.07%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	9	2	14	2	21	3	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	0	0	0	0	1	0	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	9	2	14	2	22	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	4	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	1	1	1	1	1	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	1	NA	2	NA	2	NA	$PT = (N_c(Day) + N_t(Day)) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	1	NA	2	NA	$R = (N_c(Day) + N_t(Day)) * 0.3$

¹ Compound Annual Growth Rate = 2.40%

Roberts Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	200	200	313	313	503	503	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	100	100	157	157	252	252	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,059	3,059	4,800	4,800	7,714	7,714	Traffic Count Site 5-1-5 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	9	1	14	2	22	3	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	6	1	9	1	15	2	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.46%	96.46%	96.46%	96.46%	96.46%	96.46%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.48%	7.07%	2.48%	7.07%	2.48%	7.07%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	6	1	9	2	15	2	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	7	2	10	3	16	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	1	NA	2	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.40%

Roberts Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	263	263	412	412	662	662	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	131	131	206	206	331	331	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,059	3,059	4,800	4,800	7,714	7,714	Traffic Count Site 5-1-5 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	11	1	18	2	29	3	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	8	1	12	1	19	2	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.46%	96.46%	96.46%	96.46%	96.46%	96.46%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.48%	7.07%	2.48%	7.07%	2.48%	7.07%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	8	1	12	2	19	3	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	9	2	13	3	20	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	4	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.40%

Roberts Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	591	591	927	927	1,490	1,490	Door Count Data Provided by MDT
	Peak Daily People	PDP	296	296	464	464	745	745	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,059	3,059	4,800	4,800	7,714	7,714	Traffic Count Site 5-1-5 Hourly Full Detail
	Peak Day Peak Hour People	PHP	26	3	40	5	65	8	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	17	2	27	3	43	5	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	96.46%	96.46%	96.46%	96.46%	96.46%	96.46%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	2.48%	7.07%	2.48%	7.07%	2.48%	7.07%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	17	2	26	4	42	6	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	2	1	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	18	3	27	5	44	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	5	NA	7	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 2.40%

Sweet Grass Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,120	2,120	2,587	2,587	3,156	3,156	Traffic Count Site 51-1-2 (W-136)
	Average Annual Daily Traffic (Trucks)	AADT _t	821	821	1,002	1,002	1,222	1,222	Traffic Count Site 51-1-2 (W-136)
	Peak Hour Volume	PHV	168	29	205	35	250	43	Traffic Count Site 51-1-2 (W-136), Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.13	0.13	0.13	0.13	0.13	0.13	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	22	4	26	5	32	6	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	61.27%	61.27%	61.27%	61.27%	61.27%	61.27%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	27.11%	77.45%	27.11%	77.45%	27.11%	77.45%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	13	2	16	3	20	4	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	6	3	7	4	9	5	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	19	5	23	7	29	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	4	10	5	12	6	15	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	3	NA	3	NA	4	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	2	NA	2	NA	3	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Sweet Grass Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	607	607	733	733	894	894	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	303	303	366	366	447	447	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,116	2,116	2,556	2,556	3,119	3,119	Traffic Count Site 51-1-2 (W-136) Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	24	4	29	5	35	6	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	16	3	19	3	24	4	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	61.27%	61.27%	61.27%	61.27%	61.27%	61.27%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	27.11%	77.45%	27.11%	77.45%	27.11%	77.45%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	10	2	12	3	15	3	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	5	3	6	3	7	4	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	15	5	18	6	22	7	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	8	NA	9	NA	11	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Sweet Grass Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	813	813	982	982	1,198	1,198	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	406	406	491	491	599	599	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,116	2,116	2,556	2,556	3,119	3,119	Traffic Count Site 51-1-2 (W-136) Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	32	6	39	7	48	8	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	22	4	26	4	32	5	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	61.27%	61.27%	61.27%	61.27%	61.27%	61.27%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	27.11%	77.45%	27.11%	77.45%	27.11%	77.45%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	14	3	16	3	20	4	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	6	3	8	4	9	5	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	6	24	7	29	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	10	NA	12	NA	15	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Sweet Grass Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,649	1,649	1,992	1,992	2,430	2,430	Door Count Data Provided by MDT
	Peak Daily People	PDP	824	824	996	996	1,215	1,215	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	2,116	2,116	2,556	2,556	3,119	3,119	Traffic Count Site 51-1-2 (W-136) Hourly Full Detail
	Peak Day Peak Hour People	PHP	65	11	79	14	96	17	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	44	8	53	9	64	11	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	61.27%	61.27%	61.27%	61.27%	61.27%	61.27%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	27.11%	77.45%	27.11%	77.45%	27.11%	77.45%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	27	5	33	6	40	7	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	12	6	15	8	18	9	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	39	11	48	14	58	16	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	5	NA	6	NA	8	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	20	NA	24	NA	29	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	3	NA	3	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Teton River (North) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,795	1,795	2,297	2,297	2,939	2,939	Traffic Count Site 50-4-2 Northbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	491	491	628	628	803	803	Traffic Count Site 50-4-2 Northbound Volume
	Peak Hour Volume	PHV	130	17	166	22	213	28	Traffic Count Site 50-4-2, Seasonally Adjusted Northbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.09	0.09	0.09	0.09	0.09	0.09	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	12	2	15	2	19	3	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	9	1	11	1	14	2	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	1	4	2	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	11	2	14	2	18	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	3	2	4	3	5	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	2	NA	2	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	1	NA	2	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.24%

Teton River (North) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	328	328	415	415	530	530	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	164	164	207	207	265	265	AADP = AADC / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,827	1,827	2,309	2,309	2,954	2,954	Traffic Count Site 50-4-2 Hourly Full Detail Northbound Volume
	Average Annual Peak Hour People	PHP _a	12	2	15	2	19	2	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	8	1	10	1	13	2	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	6	1	8	1	10	2	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	2	1	3	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	8	2	10	2	13	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	2	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	2	NA	3	NA	4	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.24%

Teton River (North) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	476	476	602	602	770	770	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	238	238	301	301	385	385	ASDP = ASDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,827	1,827	2,309	2,309	2,954	2,954	Traffic Count Site 50-4-2 Hourly Full Detail Northbound Volume
	Average Summer Peak Hour People	PHP _s	17	2	21	3	27	4	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	11	1	14	2	18	2	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	9	2	11	2	14	2	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	1	3	2	4	2	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	12	3	14	4	18	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	3	NA	4	NA	5	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.24%

Teton River (North) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	722	722	912	912	1,168	1,168	Door Count Data Provided by MDT
	Peak Daily People	PDP	361	361	456	456	584	584	PDP = PDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,827	1,827	2,309	2,309	2,954	2,954	Traffic Count Site 50-4-2 Hourly Full Detail Northbound Volume
	Peak Day Peak Hour People	PHP	26	3	32	4	42	5	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	17	2	22	3	28	4	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	13	2	16	3	21	3	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	4	2	5	2	6	2	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	17	4	21	5	27	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	4	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	5	NA	6	NA	7	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.24%

Teton River (South) Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,795	1,795	2,297	2,297	2,939	2,939	Traffic Count Site 50-4-2 Southbound Volume
	Average Annual Daily Traffic (Trucks)	AADT _t	491	491	628	628	803	803	Traffic Count Site 50-4-2 Southbound Volume
	Peak Hour Volume	PHV	133	19	170	24	218	31	Traffic Count Site 50-4-2, Seasonally Adjusted Southbound Volume
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.10	0.10	0.10	0.10	0.10	0.10	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	14	2	18	3	23	4	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	10	1	13	2	17	3	$D_c = D_{c\%} * PHV$
	Number of Trucks Stopping at Rest Area	D _t	3	1	3	2	4	2	$D_t = D_{t\%} * PHV$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	13	2	16	4	21	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	3	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	2	4	3	5	3	6	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	2	NA	2	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	2	NA	2	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.24%

Teton River (South) Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	406	406	513	513	657	657	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	203	203	257	257	328	328	AADP = AADC / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,755	1,755	2,218	2,218	2,838	2,838	Traffic Count Site 50-4-2 Hourly Full Detail Southbound Volume
	Average Annual Peak Hour People	PHP _a	15	2	19	3	25	4	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	10	1	13	2	17	2	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	8	2	10	2	13	2	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	2	1	3	2	4	2	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	10	3	13	4	17	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	3	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	3	NA	4	NA	5	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.24%

Teton River (South) Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	561	561	709	709	907	907	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	281	281	355	355	454	454	ASDP = ASDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,755	1,755	2,218	2,218	2,838	2,838	Traffic Count Site 50-4-2 Hourly Full Detail Southbound Volume
	Average Summer Peak Hour People	PHP _s	21	3	27	4	34	5	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	14	2	18	3	23	3	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	11	2	14	2	17	3	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	3	2	4	2	5	2	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	14	4	18	4	22	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	4	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	4	NA	5	NA	7	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.24%

Teton River (South) Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	1,024	1,024	1,294	1,294	1,656	1,656	Door Count Data Provided by MDT
	Peak Daily People	PDP	512	512	647	647	828	828	PDP = PDD / 2 (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,755	1,755	2,218	2,218	2,838	2,838	Traffic Count Site 50-4-2 Hourly Full Detail Southbound Volume
	Peak Day Peak Hour People	PHP	39	6	49	7	63	9	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	26	4	33	5	42	6	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	72.67%	72.67%	72.67%	72.67%	72.67%	72.67%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	19.13%	54.65%	19.13%	54.65%	19.13%	54.65%	Guideline #3 Day = (AADT _t / AADT) * 0.7 Night = (AADT _t / AADT) * 2.0
	Number of Cars Stopping at Rest Area	D _c	19	3	24	4	31	5	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	5	3	7	3	9	4	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	24	6	31	7	40	9	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	11	NA	11	NA	11	NA	Research from Divide (Southbound) Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	38	202	38	202	38	202	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	5	NA	6	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	7	NA	9	NA	11	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	2	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.24%

Troy Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	2,680	2,680	3,270	3,270	3,990	3,990	Average of Traffic Count Sites 27-3-5 & 27-3-7
	Average Annual Daily Traffic (Trucks)	AADT _T	156	156	190	190	232	232	Average of Traffic Count Sites 27-3-5 & 27-3-7
	Peak Hour Volume	PHV	302	53	368	65	450	79	Average of Traffic Count Sites 27-3-5 & 27-3-7, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.05	0.05	0.05	0.05	0.05	0.05	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	16	3	20	4	24	5	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	94.18%	94.18%	94.18%	94.18%	94.18%	94.18%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	4.07%	11.64%	4.07%	11.64%	4.07%	11.64%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	15	3	19	4	23	5	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	1	0	1	0	1	1	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	16	3	20	4	24	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	4	NA	4	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	1	1	1	1	1	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	1	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	2	NA	2	NA	2	NA	$PT = (N_{c(Day)} + N_{t(Day)}) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	2	NA	2	NA	$R = (N_{c(Day)} + N_{t(Day)}) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Troy Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	284	284	343	343	419	419	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	142	142	172	172	209	209	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,477	3,477	4,201	4,201	5,126	5,126	Average of Traffic Count Sites 27-3-5 & 27-3-7 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	12	2	15	3	18	3	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	8	1	10	2	12	2	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	94.18%	94.18%	94.18%	94.18%	94.18%	94.18%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	4.07%	11.64%	4.07%	11.64%	4.07%	11.64%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	8	2	10	2	12	3	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	9	3	11	3	13	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	2	NA	2	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Troy Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	445	445	538	538	656	656	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	223	223	269	269	328	328	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,477	3,477	4,201	4,201	5,126	5,126	Average of Traffic Count Sites 27-3-5 & 27-3-7 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	19	3	23	4	28	5	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	13	2	16	3	19	3	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	94.18%	94.18%	94.18%	94.18%	94.18%	94.18%	$D_{c\%} = (AADT - AADT_T) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	4.07%	11.64%	4.07%	11.64%	4.07%	11.64%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	13	3	15	3	18	4	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	14	4	16	4	19	5	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	3	NA	3	NA	3	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Troy Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	682	682	824	824	1,005	1,005	Door Count Data Provided by MDT
	Peak Daily People	PDP	341	341	412	412	503	503	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	3,477	3,477	4,201	4,201	5,126	5,126	Average of Traffic Count Sites 27-3-5 & 27-3-7 Hourly Full Detail
	Peak Day Peak Hour People	PHP	30	5	36	6	44	8	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	20	3	24	4	29	5	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	94.18%	94.18%	94.18%	94.18%	94.18%	94.18%	$D_{c\%} = (AADT - AADT_T) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	4.07%	11.64%	4.07%	11.64%	4.07%	11.64%	Guideline #3 Day = $(AADT_T / AADT) * 0.7$ Night = $(AADT_T / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	19	4	23	4	28	5	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	2	1	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	20	5	24	5	30	6	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	4	NA	4	NA	5	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	2	NA	2	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	1	NA	1	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Vandalia Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,250	1,250	1,618	1,618	2,096	2,096	Traffic Count Site 53-4-1
	Average Annual Daily Traffic (Trucks)	AADT _t	170	170	220	220	285	285	Traffic Count Site 53-4-1
	Peak Hour Volume	PHV	108	14	140	18	181	23	Traffic Count Site 53-4-1, Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.06	0.06	0.06	0.06	0.06	0.06	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	7	1	9	2	12	2	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.40%	86.40%	86.40%	86.40%	86.40%	86.40%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.52%	27.20%	9.52%	27.20%	9.52%	27.20%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	6	1	8	2	10	2	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	1	0	1	1	1	1	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	7	1	9	3	11	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	1	NA	2	NA	2	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	1	1	1	1	1	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	1	NA	1	NA	1	NA	$PT = (N_c(D_{Day}) + N_t(D_{Day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	1	NA	1	NA	1	NA	$R = (N_c(D_{Day}) + N_t(D_{Day})) * 0.3$

¹ Compound Annual Growth Rate = 1.30%

Vandalia Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	191	191	244	244	316	316	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	96	96	122	122	158	158	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,251	1,251	1,599	1,599	2,070	2,070	Traffic Count Site 53-4-1 Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	8	1	11	1	14	2	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	5	1	7	1	9	1	$PHV_a = PHP_a / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.40%	86.40%	86.40%	86.40%	86.40%	86.40%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.52%	27.20%	9.52%	27.20%	9.52%	27.20%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	5	1	7	1	8	2	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	6	2	8	2	9	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	1	NA	2	NA	2	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Vandalia Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	236	236	302	302	391	391	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	118	118	151	151	195	195	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,251	1,251	1,599	1,599	2,070	2,070	Traffic Count Site 53-4-1 Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	10	1	13	2	17	2	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	7	1	9	1	11	1	$PHV_s = PHP_s / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.40%	86.40%	86.40%	86.40%	86.40%	86.40%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.52%	27.20%	9.52%	27.20%	9.52%	27.20%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	6	1	8	1	10	2	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	2	1	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	7	2	9	2	12	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	1	NA	2	NA	2	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Vandalia Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	403	403	515	515	667	667	Door Count Data Provided by MDT
	Peak Daily People	PDP	202	202	258	258	333	333	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,251	1,251	1,599	1,599	2,070	2,070	Traffic Count Site 53-4-1 Hourly Full Detail
	Peak Day Peak Hour People	PHP	17	2	22	3	29	4	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	12	2	15	2	19	2	$PHV_p = PHP_p / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	86.40%	86.40%	86.40%	86.40%	86.40%	86.40%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	9.52%	27.20%	9.52%	27.20%	9.52%	27.20%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	11	2	13	2	17	3	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	2	1	2	1	2	1	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	13	3	15	3	19	4	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	2	NA	3	NA	3	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	2	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	1	NA	1	NA	1	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	1	NA	1	NA	1	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	0	NA	0	NA	0	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.30%

Vista Point Rest Area - Modified WTI Method									
Description	Variable	Existing (2011) DAY	Existing (2011) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Traffic	AADT	1,090	1,090	1,330	1,330	1,623	1,623	Traffic Count Site 5-2-2 (A-75)
	Average Annual Daily Traffic (Trucks)	AADT _t	9	9	11	11	13	13	Traffic Count Site 5-2-2 (A-75)
	Peak Hour Volume	PHV	113	1	138	1	168	1	Traffic Count Site 5-2-2 (A-75), Seasonally Adjusted
	Proportion of Mainline Traffic Stopping at Rest Area	P	0.51	0.51	0.51	0.51	0.51	0.51	$P = [(ASDD / 2) / UV] / AADT$
	Total Vehicles Stopping at Rest Area (Initial Assumption)	D ₁	58	1	70	1	86	1	$D_1 = PHV * P$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	99.17%	99.17%	99.17%	99.17%	99.17%	99.17%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	0.58%	1.65%	0.58%	1.65%	0.58%	1.65%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	58	1	69	1	85	1	$D_c = D_{c\%} * D_1$
	Number of Trucks Stopping at Rest Area	D _t	0	0	0	0	0	0	$D_t = D_{t\%} * D_1$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	58	1	69	1	85	1	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	10	NA	12	NA	15	NA	$N_c = (PHV * P * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	1	1	1	1	1	1	$N_t = (PHV * P * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$
RECOMMENDED PICNIC TABLES	Total Picnic Tables	PT	4	NA	5	NA	6	NA	$PT = (N_c(D_{day}) + N_t(D_{day})) * 0.4$
RECOMMENDED WASTE RECEPTACLES	Total Waste Receptacles	R	3	NA	4	NA	5	NA	$R = (N_c(D_{day}) + N_t(D_{day})) * 0.3$

¹ Compound Annual Growth Rate = 1.00%

Vista Point Rest Area - Average Annual Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Annual Daily Door Count	AADC	1,547	1,547	1,869	1,869	2,280	2,280	Door Count Data Provided by MDT
	Average Annual Daily People	AADP	774	774	934	934	1,140	1,140	$AADP = AADC / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,094	1,094	1,322	1,322	1,613	1,613	Traffic Count Site 5-2-2 (A-75) Hourly Full Detail
	Average Annual Peak Hour People	PHP _a	80	1	97	1	118	1	$PHP_a = AADP * (PHV / ADT)$
	Average Annual Peak Hour Vehicles Stopping at Rest Area	PHV _a	53	0	64	1	79	1	$PHV_a = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	99.17%	99.17%	99.17%	99.17%	99.17%	99.17%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	0.58%	1.65%	0.58%	1.65%	0.58%	1.65%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	53	1	64	1	78	1	$D_c = D_{c\%} * PHV_a$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_a$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	54	2	65	2	79	2	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	9	NA	11	NA	13	NA	$N_c = (PHV_a * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_a * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	4	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	2	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Vista Point Rest Area - Average Summer Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Average Summer Daily Door Count	ASDD	1,681	1,681	2,030	2,030	2,477	2,477	Door Count Data Provided by MDT
	Average Summer Daily People	ASDP	840	840	1,015	1,015	1,239	1,239	$ASDP = ASDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,094	1,094	1,322	1,322	1,613	1,613	Traffic Count Site 5-2-2 (A-75) Hourly Full Detail
	Average Summer Peak Hour People	PHP _s	87	1	105	1	128	1	$PHP_s = ASDP * (PHV / ADT)$
	Average Summer Peak Hour Vehicles Stopping at Rest Area	PHV _s	58	1	70	1	85	1	$PHV_s = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	99.17%	99.17%	99.17%	99.17%	99.17%	99.17%	$D_{c\%} = (AADT - AADT_t) / ADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	0.58%	1.65%	0.58%	1.65%	0.58%	1.65%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	58	1	70	1	85	1	$D_c = D_{c\%} * PHV_s$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_s$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	59	2	71	2	86	2	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	10	NA	12	NA	15	NA	$N_c = (PHV_s * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_s * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	3	NA	4	NA	5	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	2	NA	2	NA	3	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	1	NA	2	NA	2	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Vista Point Rest Area - Peak Daily Door Count									
Description	Variable	Existing (2012) DAY	Existing (2012) NIGHT	Future (2031) DAY	Future (2031) NIGHT	Future (2051) DAY	Future (2051) NIGHT	Notes	
DATA	Peak Daily Door Count	PDD	3,273	3,273	3,954	3,954	4,824	4,824	Door Count Data Provided by MDT
	Peak Daily People	PDP	1,636	1,636	1,977	1,977	2,412	2,412	$PDP = PDD / 2$ (Section 4.5.1 Patron/Door Count Correlation)
	Average Daily Traffic	ADT	1,094	1,094	1,322	1,322	1,613	1,613	Traffic Count Site 5-2-2 (A-75) Hourly Full Detail
	Peak Day Peak Hour People	PHP	169	1	204	2	249	2	$PHP = PDP * (PHV / ADT)$
	Peak Day Peak Hour Vehicles Stopping at Rest Area	PHV _p	113	1	136	1	166	1	$PHV_p = PHV / UV$
	Percentage of Cars in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{c%}	99.17%	99.17%	99.17%	99.17%	99.17%	99.17%	$D_{c\%} = (AADT - AADT_t) / AADT$
	Percentage of Trucks in the Mainline Traffic Stream During Daytime/Nighttime Periods	D _{t%}	0.58%	1.65%	0.58%	1.65%	0.58%	1.65%	Guideline #3 Day = $(AADT_t / AADT) * 0.7$ Night = $(AADT_t / AADT) * 2.0$
	Number of Cars Stopping at Rest Area	D _c	112	1	135	2	165	2	$D_c = D_{c\%} * PHV_p$
	Number of Trucks Stopping at Rest Area	D _t	1	1	1	1	1	1	$D_t = D_{t\%} * PHV_p$
	Total Vehicles Stopping at Rest Area During Peak Hour (Factored)	D ₂	113	2	136	3	166	3	$D_2 = D_c + D_t$
	Average Dwell Time for Cars (Minutes)	VHS _c	10	NA	10	NA	10	NA	Research from Clearwater Junction Rest Area
	Average Dwell Time for Trucks (Minutes)	VHS _t	25	96	25	96	25	96	
Restroom Users Per Vehicle	UV	1.5	1.5	1.5	1.5	1.5	1.5	Guideline #9	
RECOMMENDED PARKING SPACES	Parking Spaces for Cars (Day Controls)	N _c	19	NA	23	NA	28	NA	$N_c = (PHV_p * D_{c\%} * VHS_c) / 60$
	Parking Spaces for Trucks (Night Controls)	N _t	NA	1	NA	1	NA	1	$N_t = (PHV_p * D_{t\%} * VHS_t) / 60$
RECOMMENDED RESTROOM STALLS	Total Restroom Stalls	T	6	NA	7	NA	9	NA	$T = (UV * D_2) / 30$
	Total Restroom Stalls - Women	T _w	4	NA	4	NA	5	NA	$T_w = T * 0.6$
	Total Restroom Stalls - Men	T _m	2	NA	3	NA	4	NA	$T_m = T * 0.4$

¹ Compound Annual Growth Rate = 1.00%

Attachment 6

**SEASONAL DAY OF THE WEEK FOR
AXLE COUNTS 2010 & 2011**



Seasonal Day of the Week For Axle Counts

(SDOWF)

For Year: 2010

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Recreational												
Weekdays	1.80	1.65	1.59	1.43	0.99	0.72	0.54	0.62	0.76	1.14	1.46	1.82
Saturday	1.94	1.71	1.58	1.41	0.92	0.69	0.54	0.59	0.76	1.21	1.57	2.24
Sunday	2.21	1.88	1.65	1.40	0.96	0.66	0.49	0.58	0.77	1.21	1.58	2.40
Friday	2.13	1.87	1.56	1.41	0.97	0.68	0.51	0.59	0.76	1.17	1.52	2.27
Rural Interstate												
Weekdays	1.34	1.28	1.15	1.05	0.96	0.85	0.76	0.78	0.92	1.01	1.11	1.25
Saturday	1.35	1.27	1.06	1.06	0.96	0.85	0.80	0.77	0.93	1.06	1.08	1.26
Sunday	1.48	1.39	1.12	1.07	0.98	0.83	0.72	0.75	0.94	1.04	1.03	1.33
Friday	1.48	1.35	1.09	1.06	0.96	0.84	0.73	0.76	0.92	1.03	1.06	1.38
Rural Minor Arterial												
Weekdays	1.31	1.24	1.17	1.05	0.95	0.88	0.83	0.83	0.92	0.95	1.00	1.23
Saturday	1.33	1.26	1.14	1.08	0.93	0.88	0.87	0.83	0.89	0.96	1.00	1.40
Sunday	1.46	1.40	1.18	1.07	0.90	0.84	0.77	0.79	0.92	0.99	1.00	1.46
Friday	1.43	1.37	1.14	1.08	0.92	0.84	0.80	0.81	0.91	0.97	0.99	1.39
Rural Major Collector												
Weekdays	1.16	1.11	1.07	0.99	0.97	0.90	0.89	0.89	0.98	1.01	1.07	1.16
Saturday	1.20	1.16	1.02	1.00	0.97	0.88	0.92	0.89	0.96	1.06	1.13	1.26
Sunday	1.28	1.17	1.09	1.00	0.95	0.88	0.83	0.87	0.99	1.10	1.11	1.26
Friday	1.23	1.15	1.03	1.01	0.97	0.90	0.85	0.88	0.98	1.09	1.10	1.24
Rural Principal Arterial												
Weekdays	1.32	1.23	1.17	1.11	0.97	0.86	0.79	0.81	0.90	0.97	1.04	1.25
Saturday	1.35	1.26	1.14	1.13	0.97	0.86	0.82	0.82	0.88	0.99	1.05	1.35
Sunday	1.49	1.35	1.19	1.13	0.98	0.82	0.72	0.78	0.90	1.01	1.04	1.44
Friday	1.47	1.33	1.15	1.13	0.97	0.83	0.74	0.79	0.88	1.00	1.03	1.43
Urban Interstate												
Weekdays	1.20	1.13	1.08	1.03	0.96	0.90	0.85	0.86	0.95	1.00	1.06	1.13
Saturday	1.21	1.10	1.03	1.02	0.95	0.91	0.88	0.87	0.94	1.02	1.05	1.17
Sunday	1.31	1.19	1.08	1.02	0.94	0.87	0.80	0.83	0.95	1.04	1.04	1.20
Friday	1.29	1.18	1.04	1.03	0.95	0.88	0.82	0.84	0.94	1.02	1.05	1.21
Urban Minor/Collector												
Weekdays	1.08	1.04	1.02	0.99	0.96	0.95	0.97	0.96	0.97	0.98	1.03	1.08
Saturday	1.09	1.04	1.02	0.95	0.91	0.96	1.00	0.97	0.97	1.00	1.05	1.08
Sunday	1.11	1.07	1.05	0.97	0.92	0.94	0.95	0.95	0.97	1.02	1.04	1.08
Friday	1.11	1.06	1.02	0.97	0.93	0.95	0.97	0.96	0.95	1.01	1.04	1.10
Urban Principal Arterial												
Weekdays	1.10	1.05	1.02	0.99	0.98	0.95	0.93	0.94	0.98	0.99	1.03	1.08
Saturday	1.13	1.02	0.98	0.96	0.94	0.96	1.00	0.97	0.96	1.00	1.04	1.11
Sunday	1.17	1.08	1.03	0.99	0.94	0.93	0.91	0.92	0.97	1.02	1.03	1.13
Friday	1.15	1.07	1.02	0.99	0.94	0.94	0.93	0.93	0.96	1.01	1.03	1.14

NOTES: Factors are 3 Year Averages



Seasonal Day of the Week For Axle Counts (SDOWF) For Year: 2011

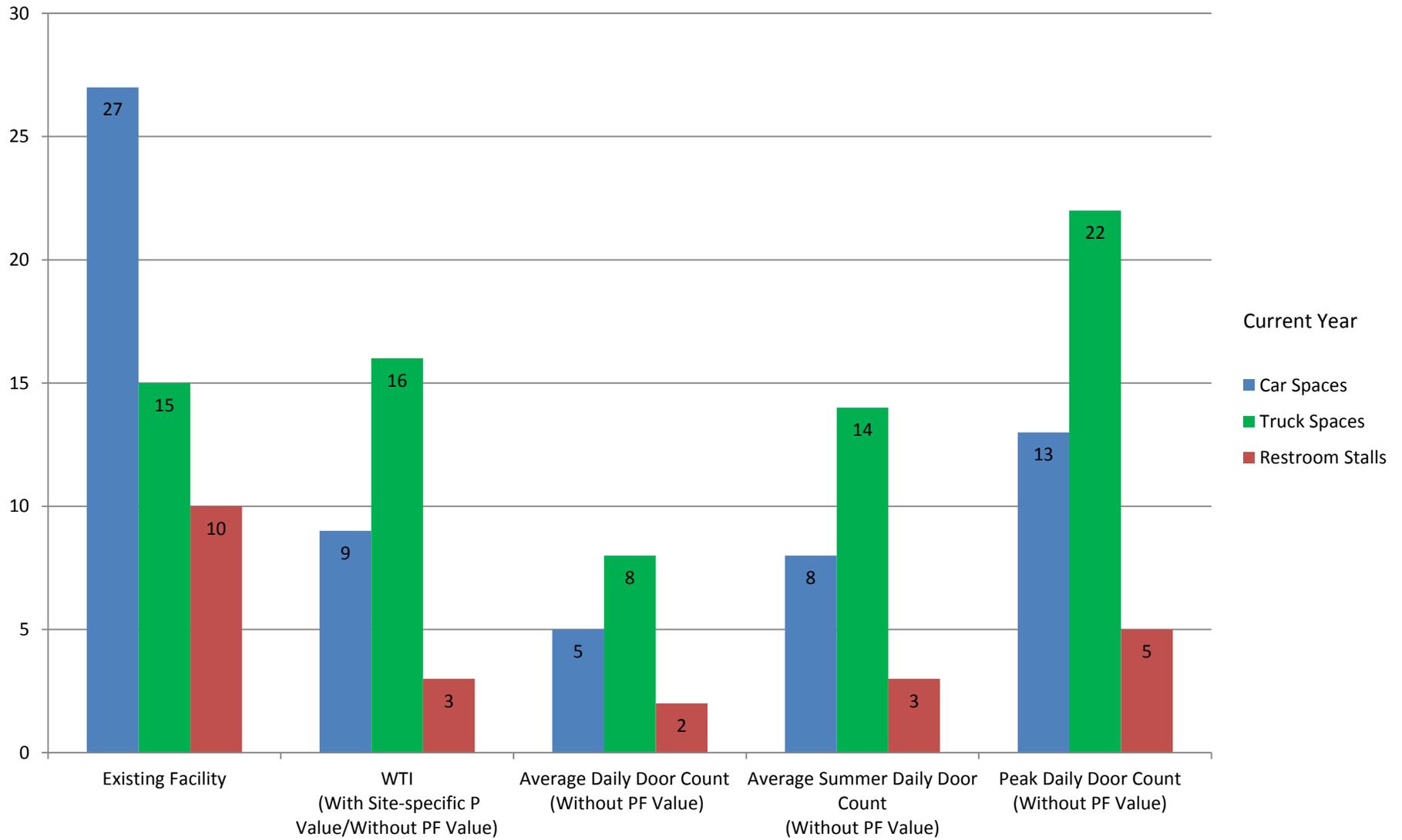
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Recreational												
Weekdays	1.90	1.70	1.60	1.44	1.00	0.71	0.53	0.60	0.77	1.14	1.50	1.87
Saturday	2.04	1.77	1.57	1.43	0.95	0.69	0.52	0.58	0.74	1.18	1.65	2.51
Sunday	2.31	1.94	1.64	1.42	0.97	0.65	0.48	0.56	0.77	1.22	1.68	2.54
Friday	2.18	1.84	1.66	1.41	0.96	0.68	0.50	0.58	0.76	1.18	1.61	2.47
Rural Interstate												
Weekdays	1.37	1.27	1.14	1.04	0.96	0.86	0.76	0.79	0.93	1.01	1.11	1.22
Saturday	1.32	1.24	1.05	1.03	0.96	0.86	0.80	0.77	0.92	1.05	1.10	1.34
Sunday	1.46	1.36	1.10	1.05	0.97	0.83	0.75	0.75	0.93	1.04	1.06	1.31
Friday	1.45	1.31	1.11	1.05	0.95	0.85	0.73	0.77	0.92	1.02	1.08	1.36
Rural Minor Arterial												
Weekdays	1.33	1.22	1.16	1.05	0.96	0.89	0.83	0.82	0.92	0.96	1.02	1.23
Saturday	1.37	1.27	1.15	1.07	0.95	0.89	0.85	0.81	0.88	0.94	1.03	1.45
Sunday	1.51	1.42	1.19	1.08	0.92	0.84	0.77	0.77	0.90	0.98	1.02	1.46
Friday	1.42	1.33	1.18	1.08	0.92	0.86	0.78	0.79	0.90	0.97	1.00	1.48
Rural Major Collector												
Weekdays	1.16	1.11	1.07	1.01	0.98	0.90	0.88	0.89	0.98	1.02	1.08	1.16
Saturday	1.18	1.17	1.02	1.00	1.00	0.90	0.90	0.88	0.94	1.06	1.16	1.30
Sunday	1.28	1.17	1.08	1.00	0.96	0.89	0.82	0.87	0.98	1.11	1.15	1.28
Friday	1.23	1.15	1.09	1.01	0.96	0.90	0.84	0.87	0.97	1.08	1.11	1.28
Rural Principal Arterial												
Weekdays	1.38	1.25	1.19	1.12	1.00	0.86	0.77	0.78	0.89	0.97	1.06	1.26
Saturday	1.40	1.26	1.15	1.14	0.99	0.85	0.81	0.79	0.85	0.98	1.08	1.43
Sunday	1.54	1.37	1.19	1.13	0.99	0.80	0.72	0.75	0.89	1.02	1.08	1.45
Friday	1.50	1.31	1.20	1.13	0.98	0.83	0.72	0.77	0.87	1.00	1.08	1.48
Urban Interstate												
Weekdays	1.21	1.13	1.07	1.03	0.97	0.90	0.85	0.86	0.95	1.00	1.07	1.12
Saturday	1.21	1.10	1.01	1.01	0.95	0.91	0.88	0.87	0.93	1.00	1.09	1.21
Sunday	1.32	1.20	1.07	1.02	0.94	0.87	0.81	0.83	0.94	1.03	1.07	1.20
Friday	1.30	1.15	1.07	1.02	0.94	0.89	0.82	0.84	0.93	1.02	1.06	1.23
Urban Minor/Collector												
Weekdays	1.08	1.04	1.02	0.97	0.95	0.95	0.98	0.97	0.98	0.99	1.04	1.08
Saturday	1.09	1.05	1.01	0.93	0.91	0.94	1.00	0.97	0.98	1.00	1.06	1.14
Sunday	1.11	1.08	1.04	0.93	0.91	0.92	0.96	0.95	0.98	1.02	1.07	1.12
Friday	1.08	1.06	1.05	0.95	0.92	0.94	0.97	0.96	0.98	1.01	1.05	1.12
Urban Principal Arterial												
Weekdays	1.09	1.03	1.01	0.99	0.98	0.97	0.96	0.96	1.00	0.98	1.04	1.06
Saturday	1.11	1.00	0.97	0.96	0.93	0.97	1.02	0.98	0.97	0.99	1.05	1.14
Sunday	1.16	1.06	1.02	0.99	0.93	0.93	0.93	0.93	0.97	1.02	1.05	1.13
Friday	1.14	1.04	1.02	0.98	0.94	0.94	0.95	0.95	0.98	1.01	1.04	1.14

NOTES: Factors are 3 Year Averages

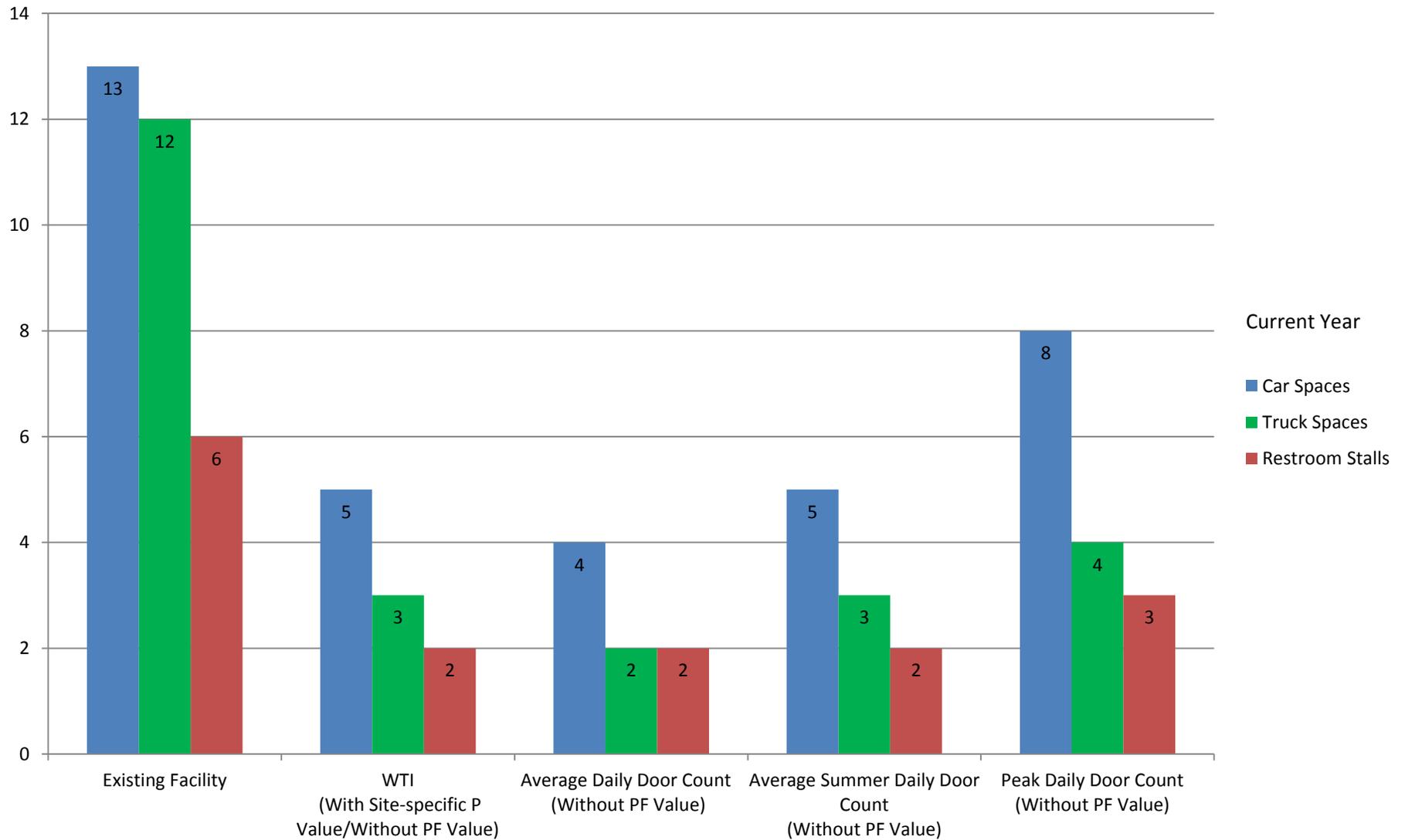
Attachment 7

PARKING/RESTROOM STALL DEMAND CHARTS

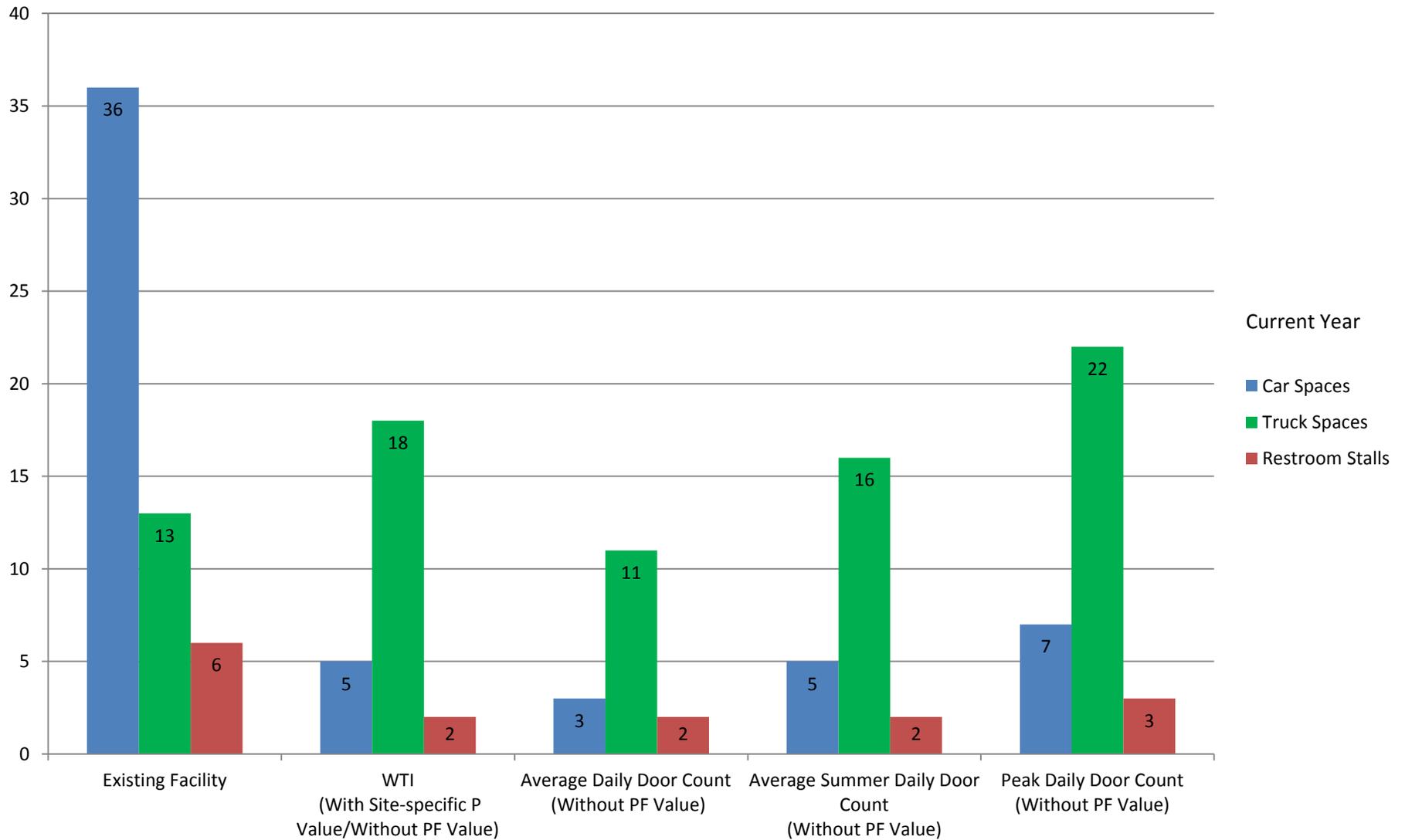
Anaconda Rest Area Methodology Comparison



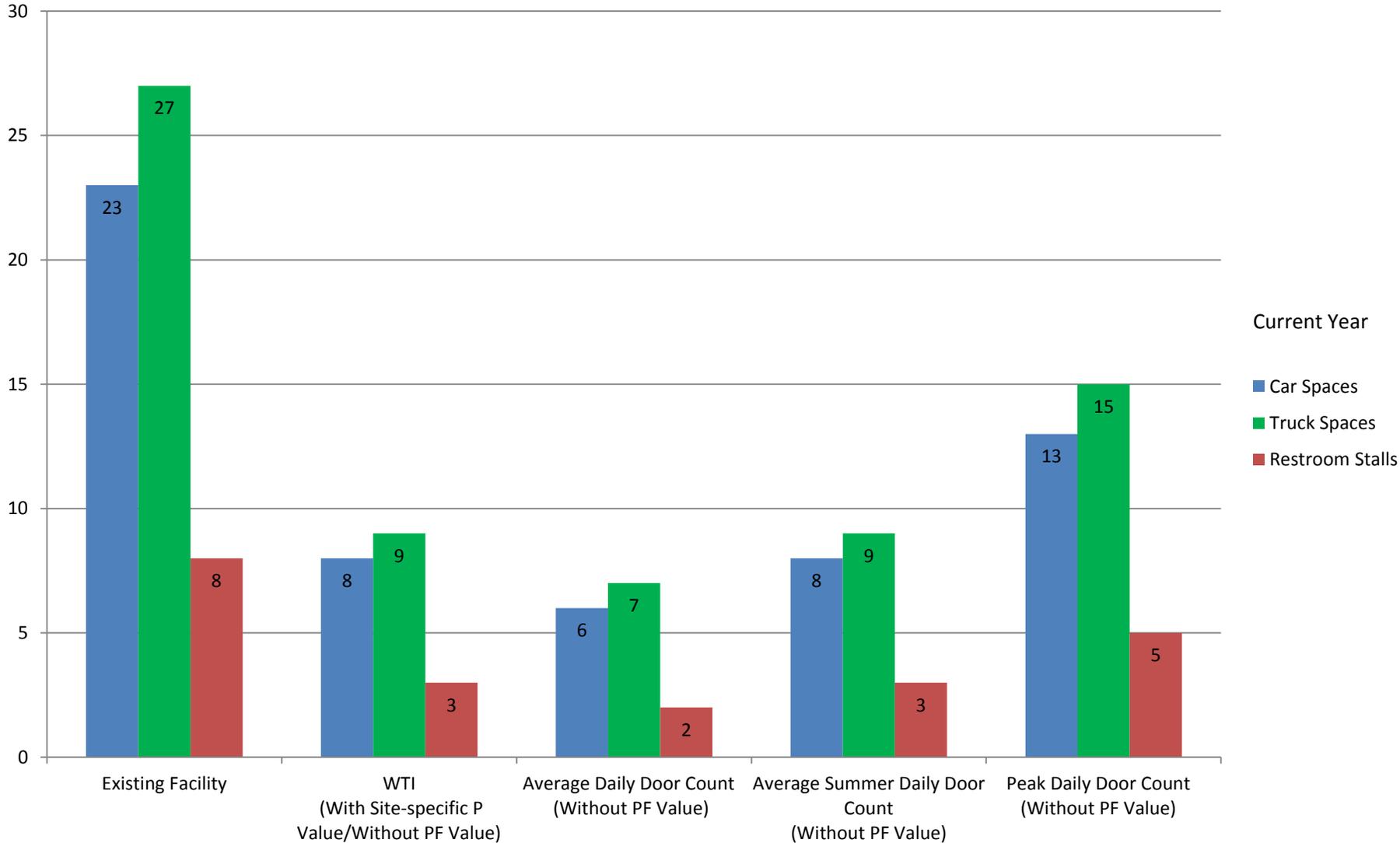
Armington Junction Rest Area Methodology Comparison



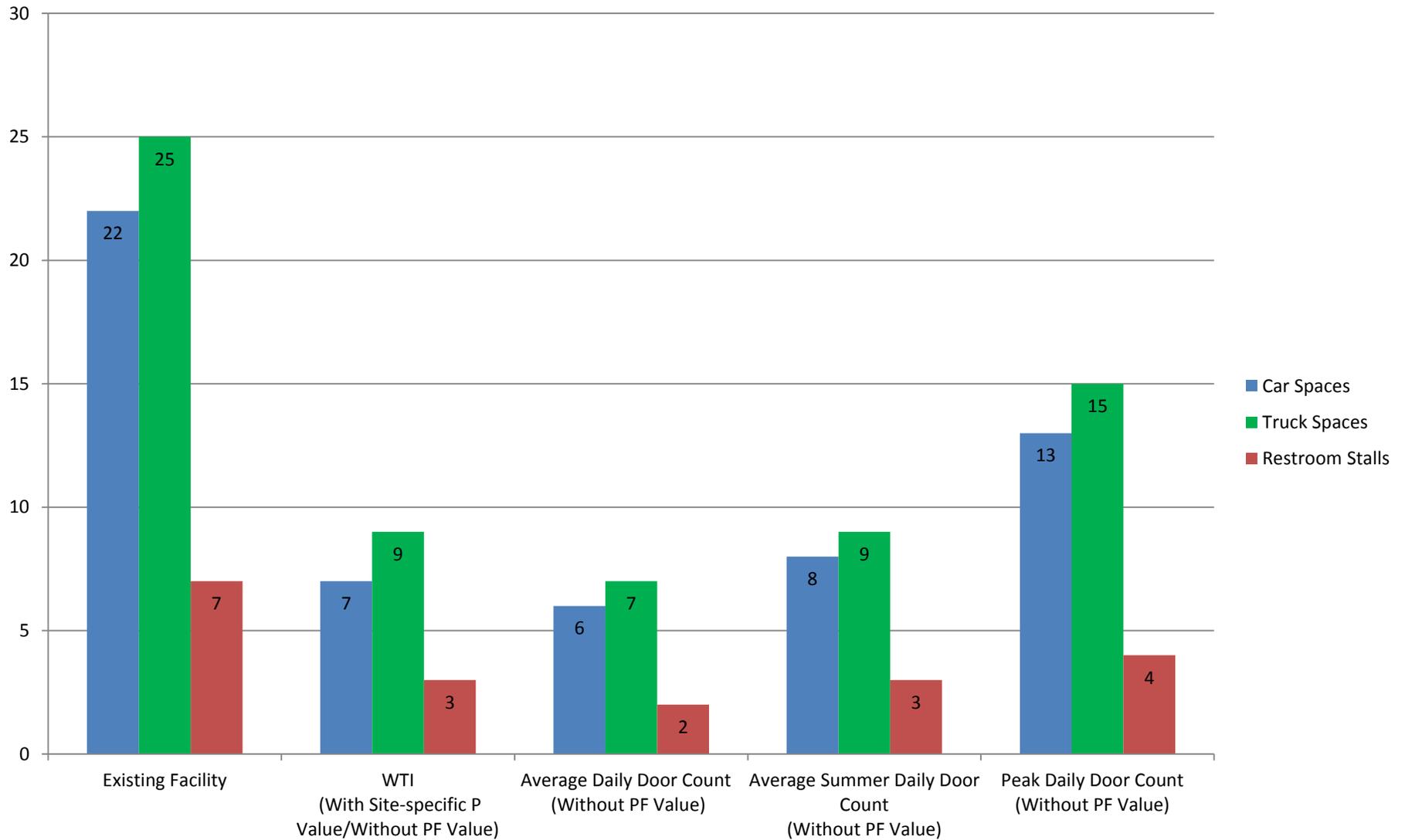
Bad Route Rest Area Methodology Comparison



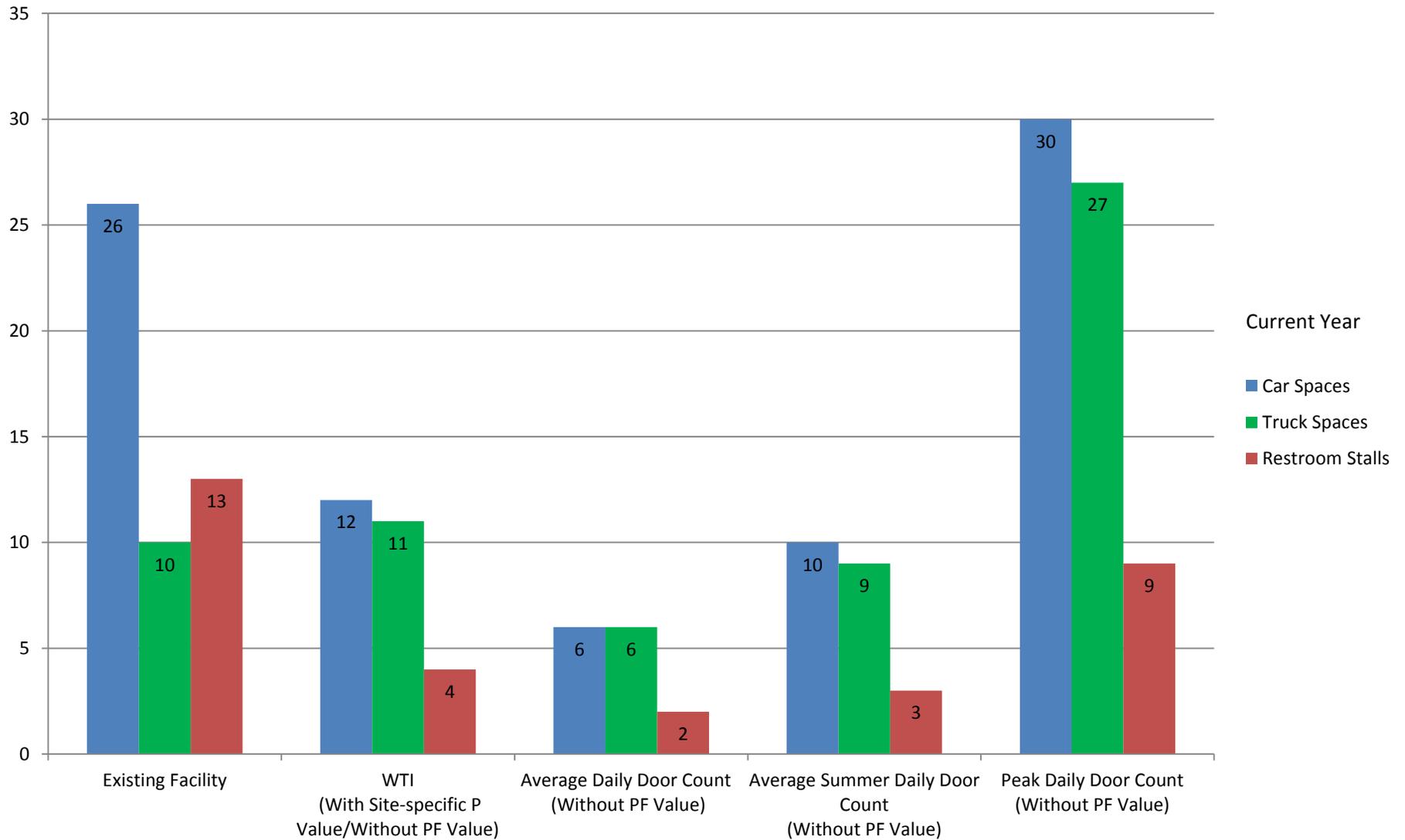
Bearmouth (East) Rest Area Methodology Comparison



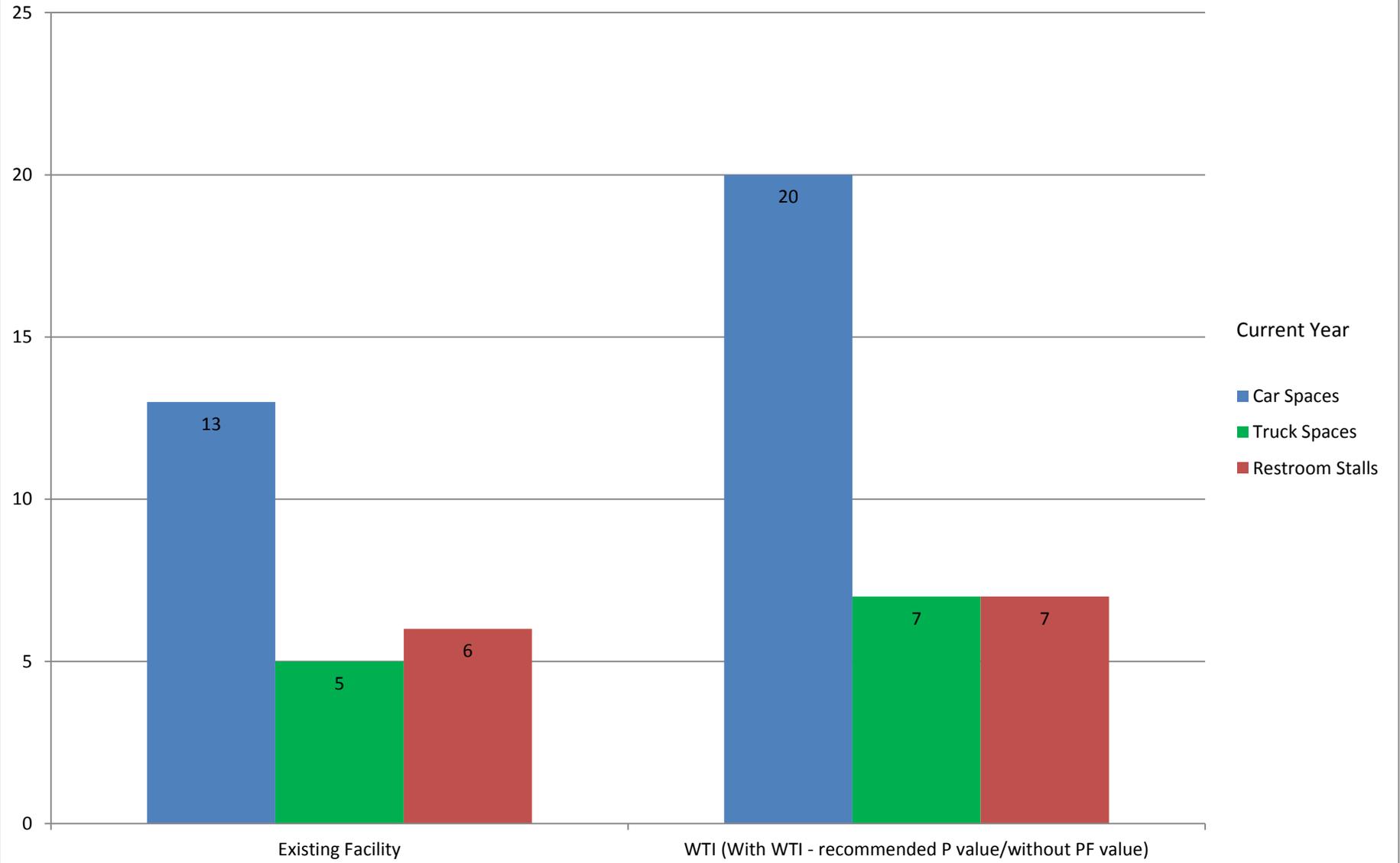
Bearmouth (West) Rest Area Methodology Comparison



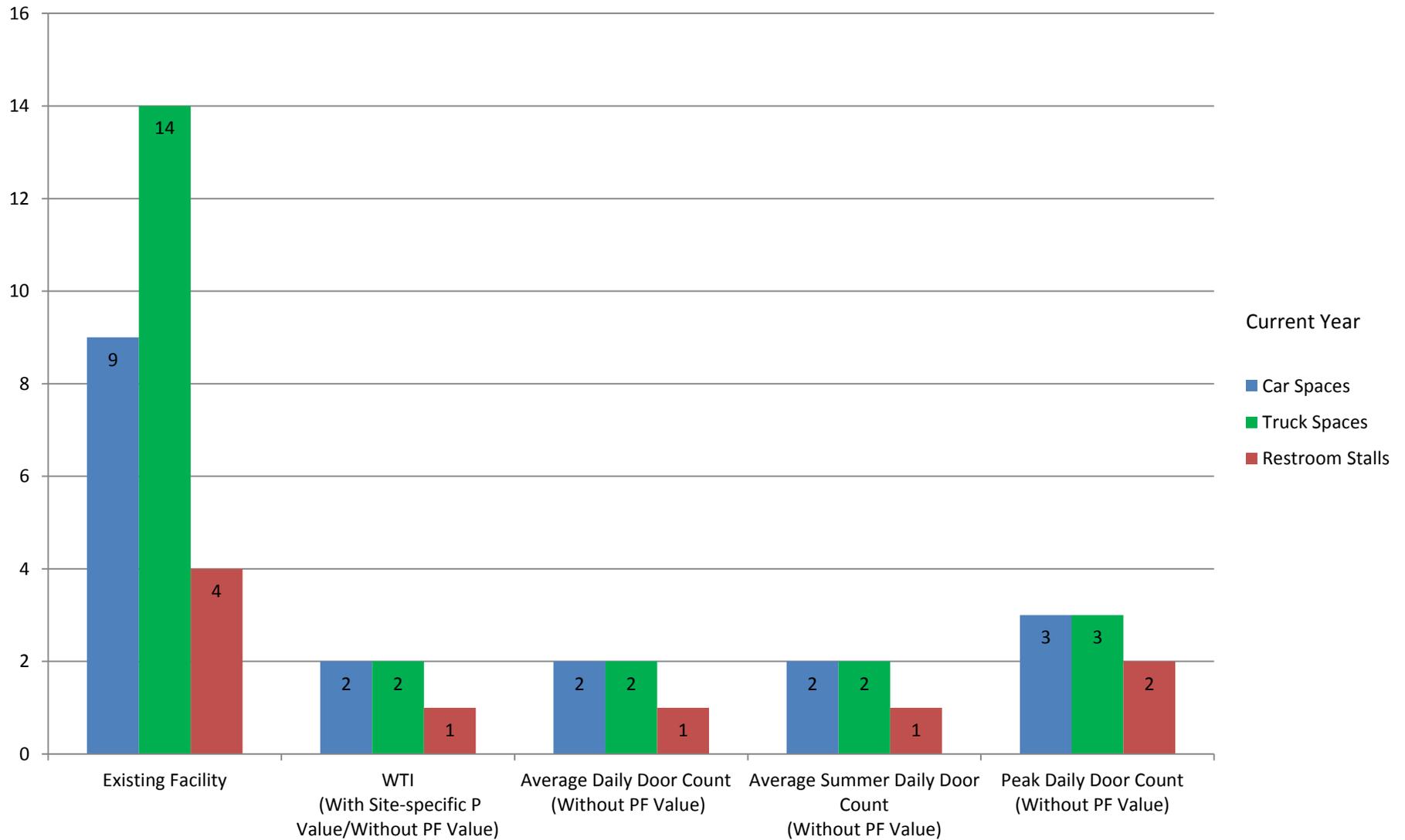
Bozeman Rest Area Methodology Comparison



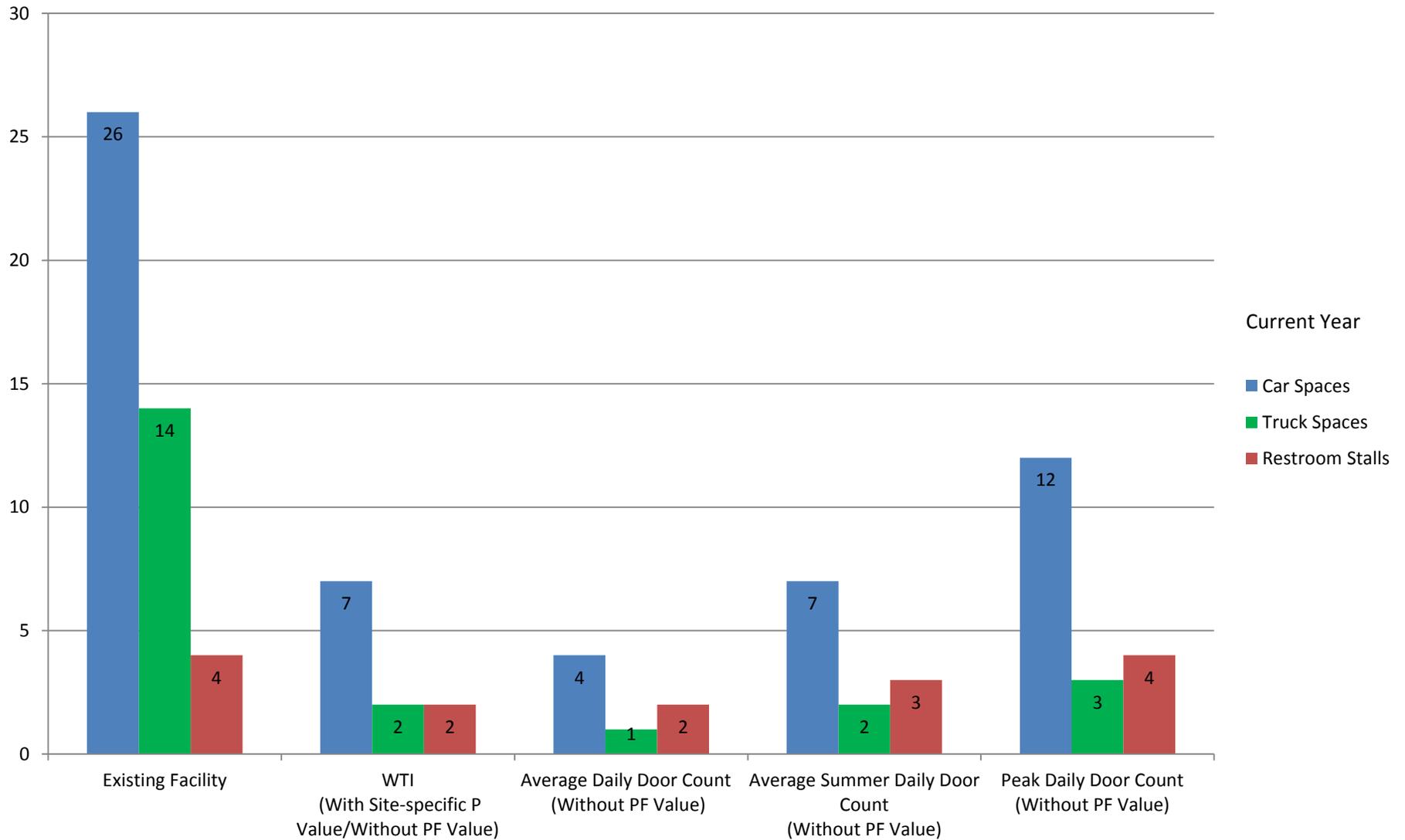
Bridger Rest Area Methodology Comparison



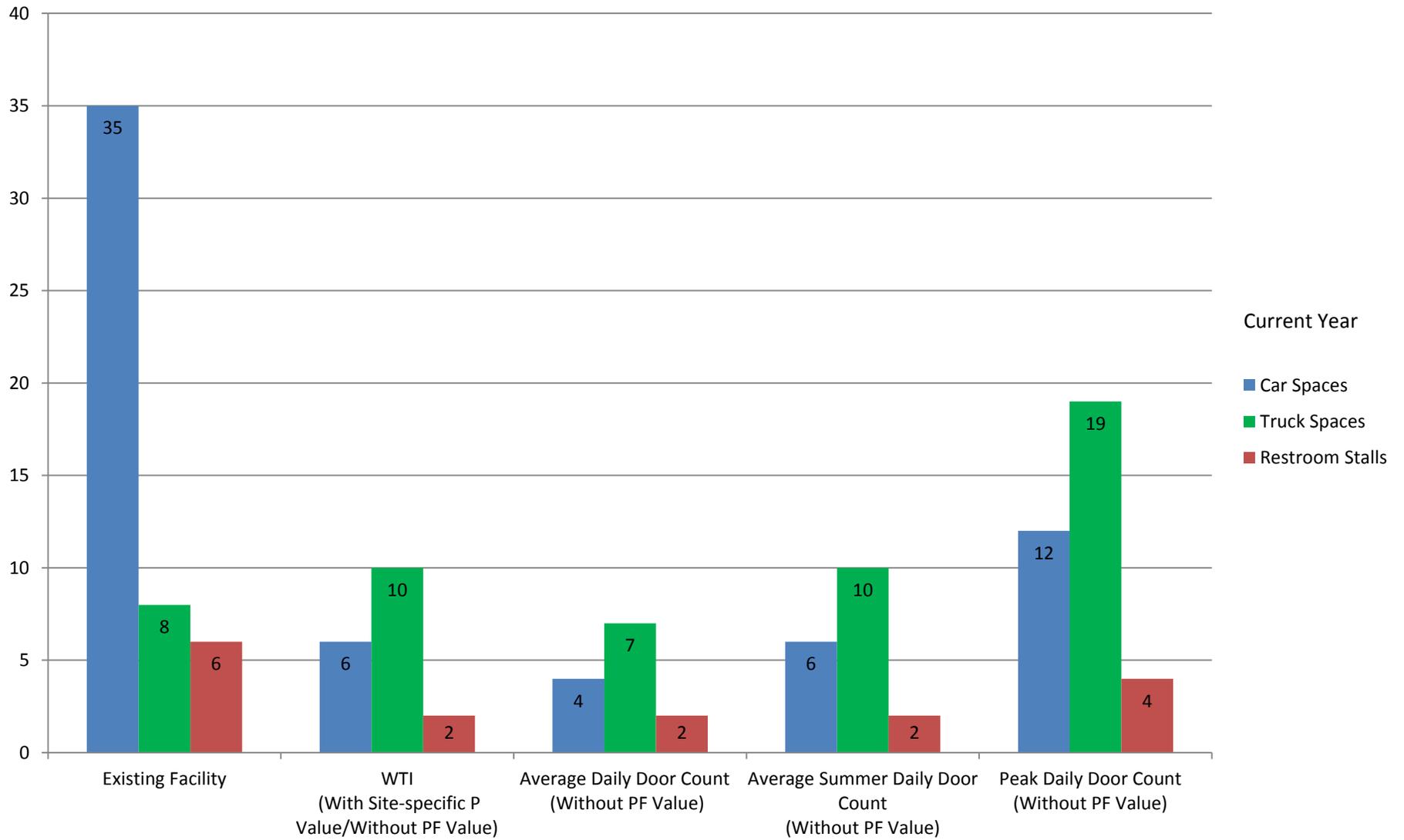
Broadus Rest Area Methodology Comparison



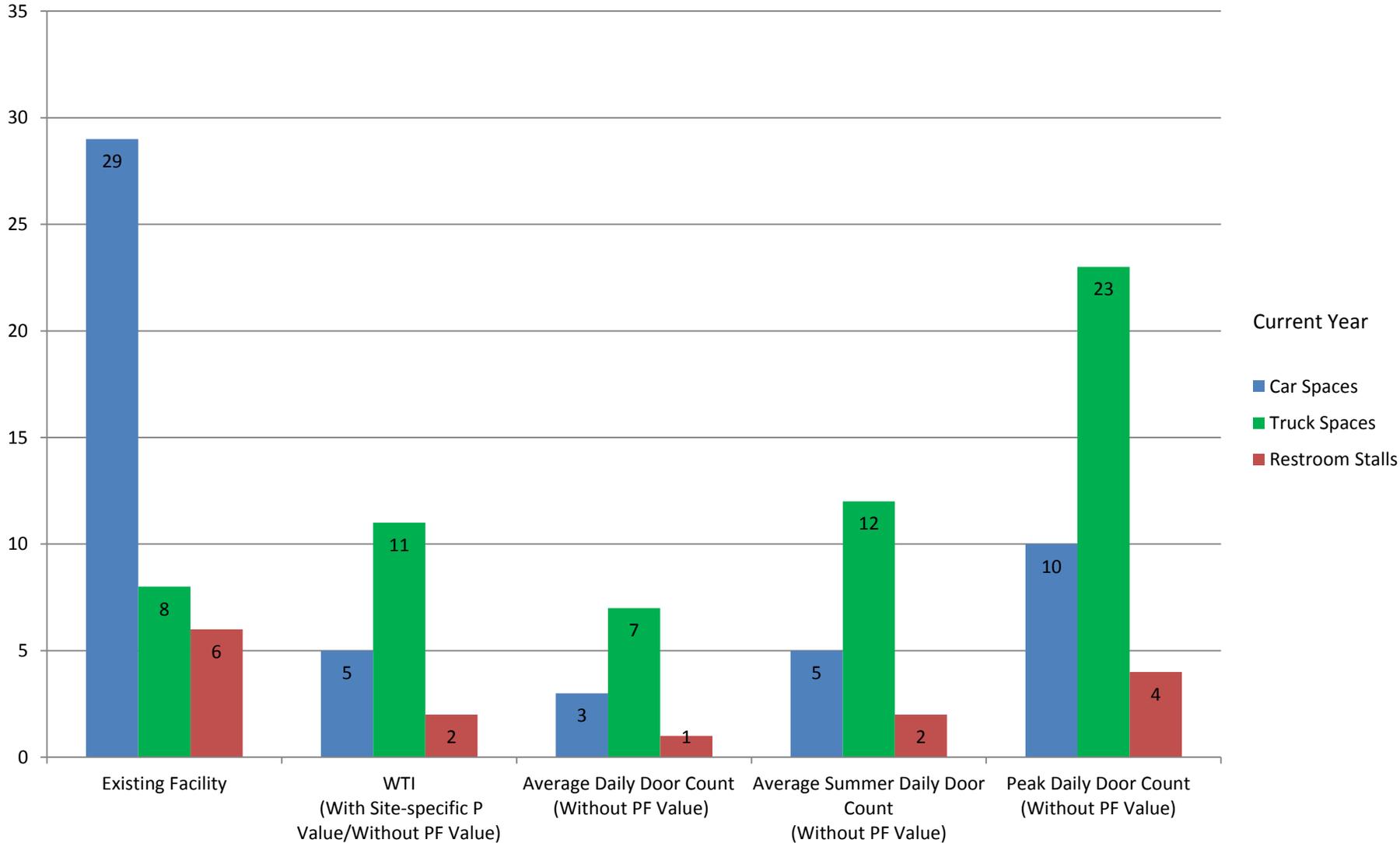
Clearwater Junction Rest Area Methodology Comparison



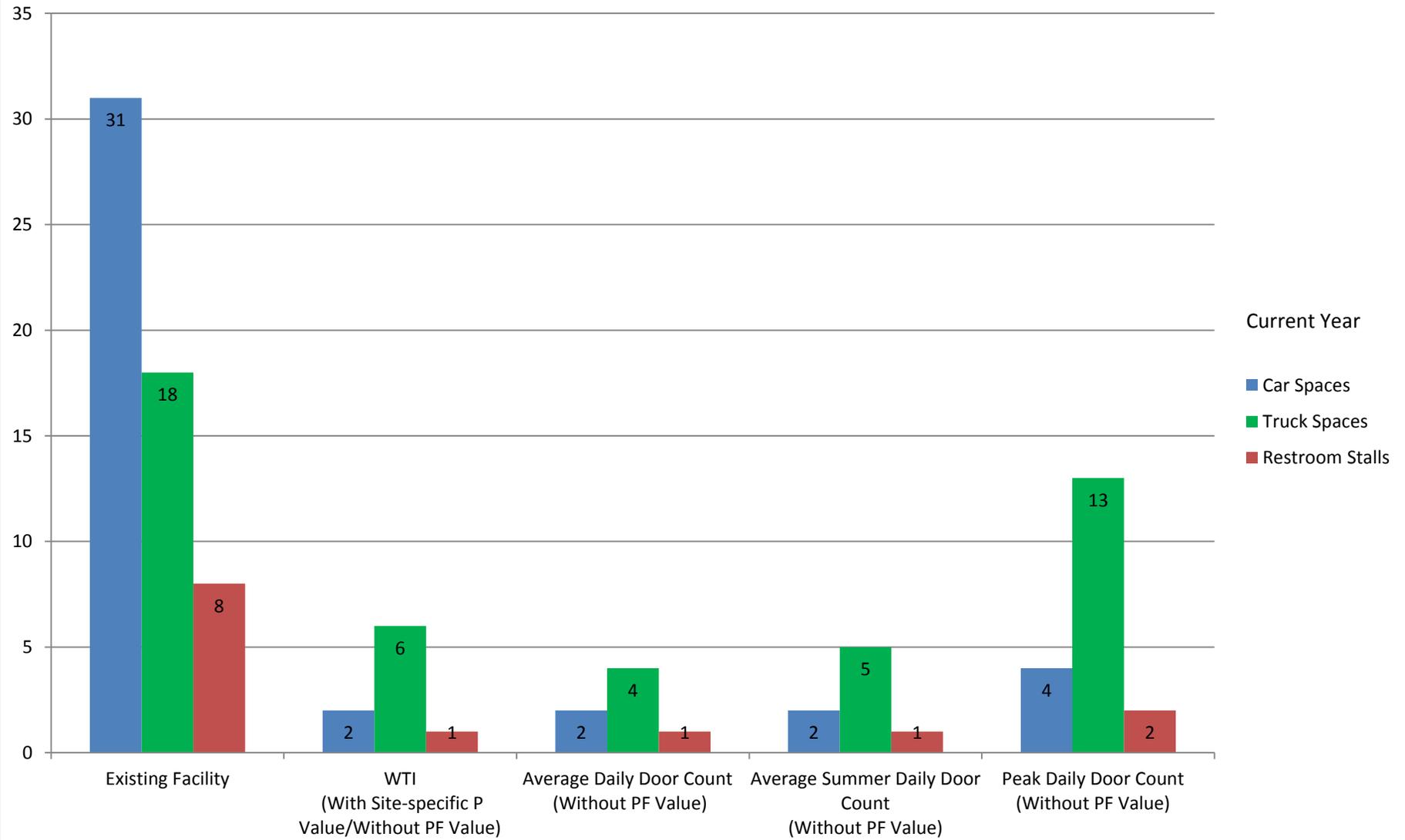
Columbus (East) Rest Area Methodology Comparison



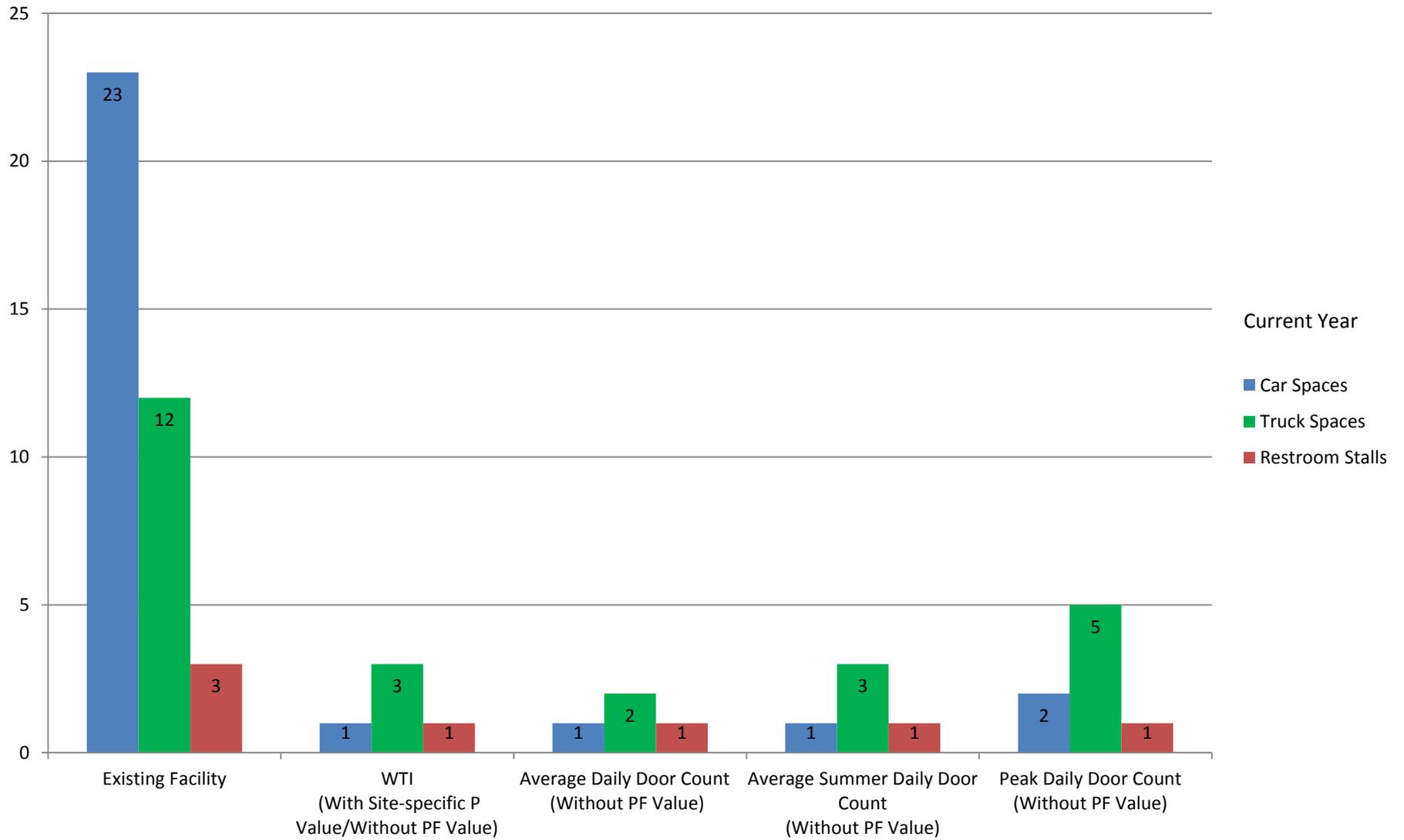
Columbus (West) Rest Area Methodology Comparison



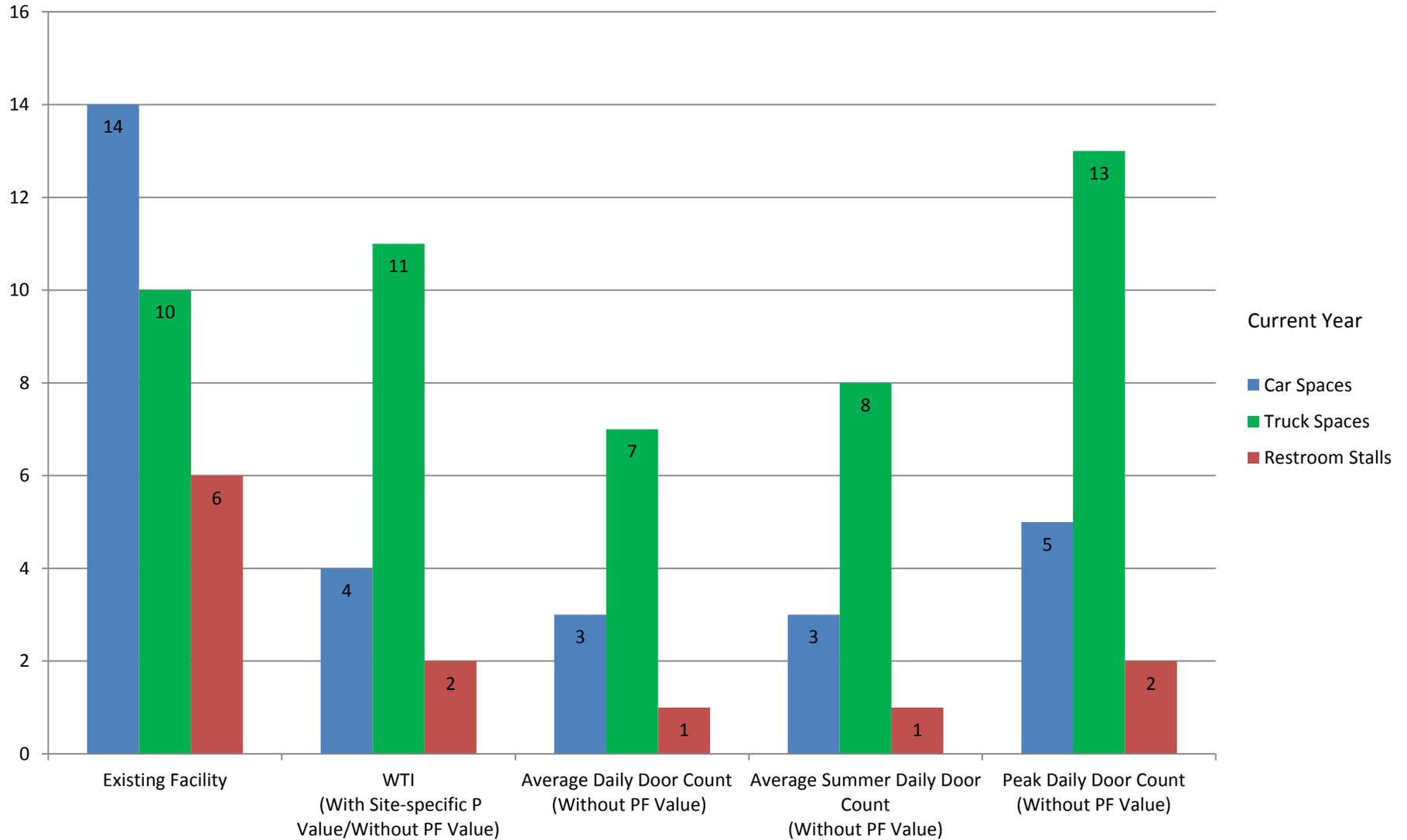
Conrad Rest Area Methodology Comparison



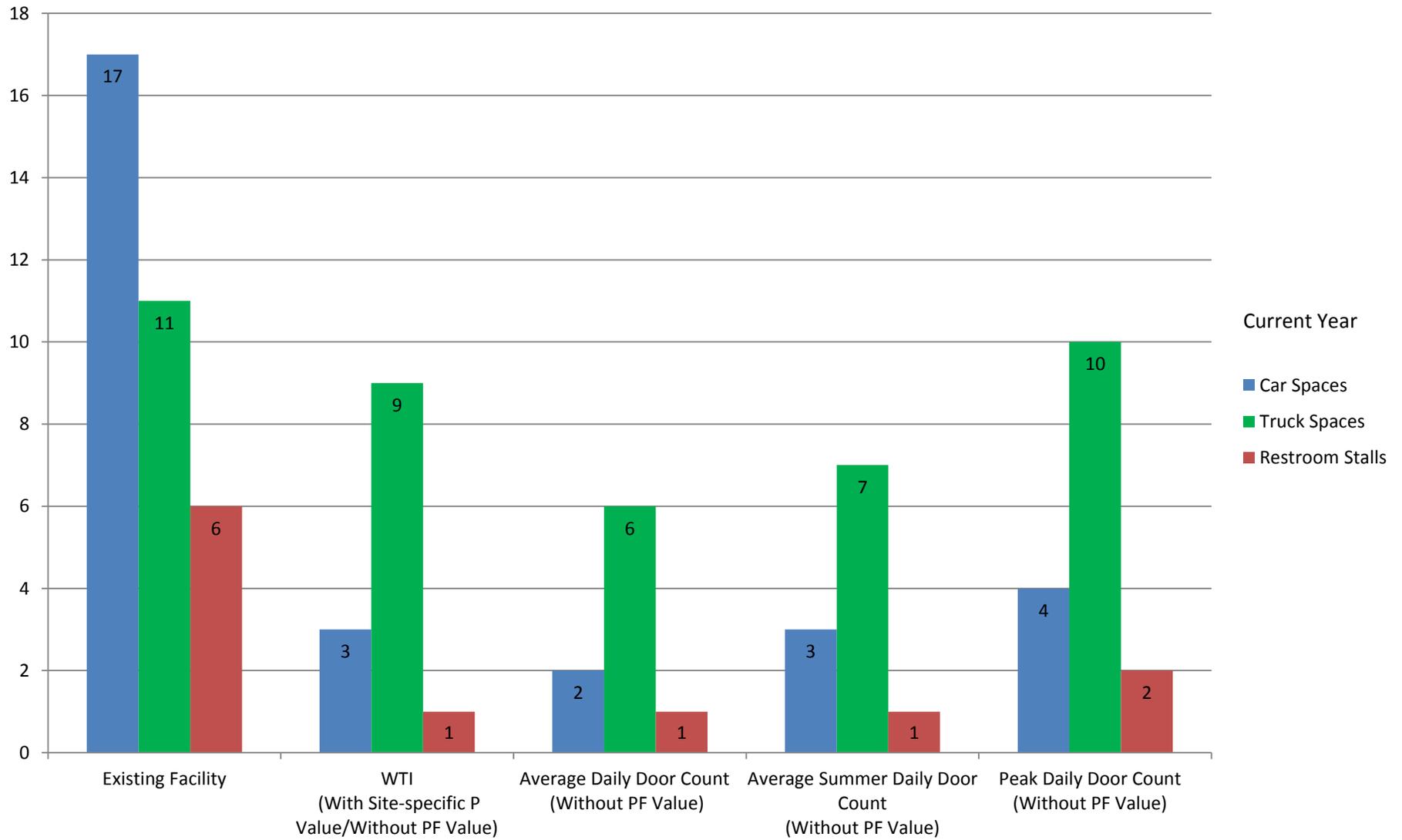
Culbertson Rest Area Methodology Comparison



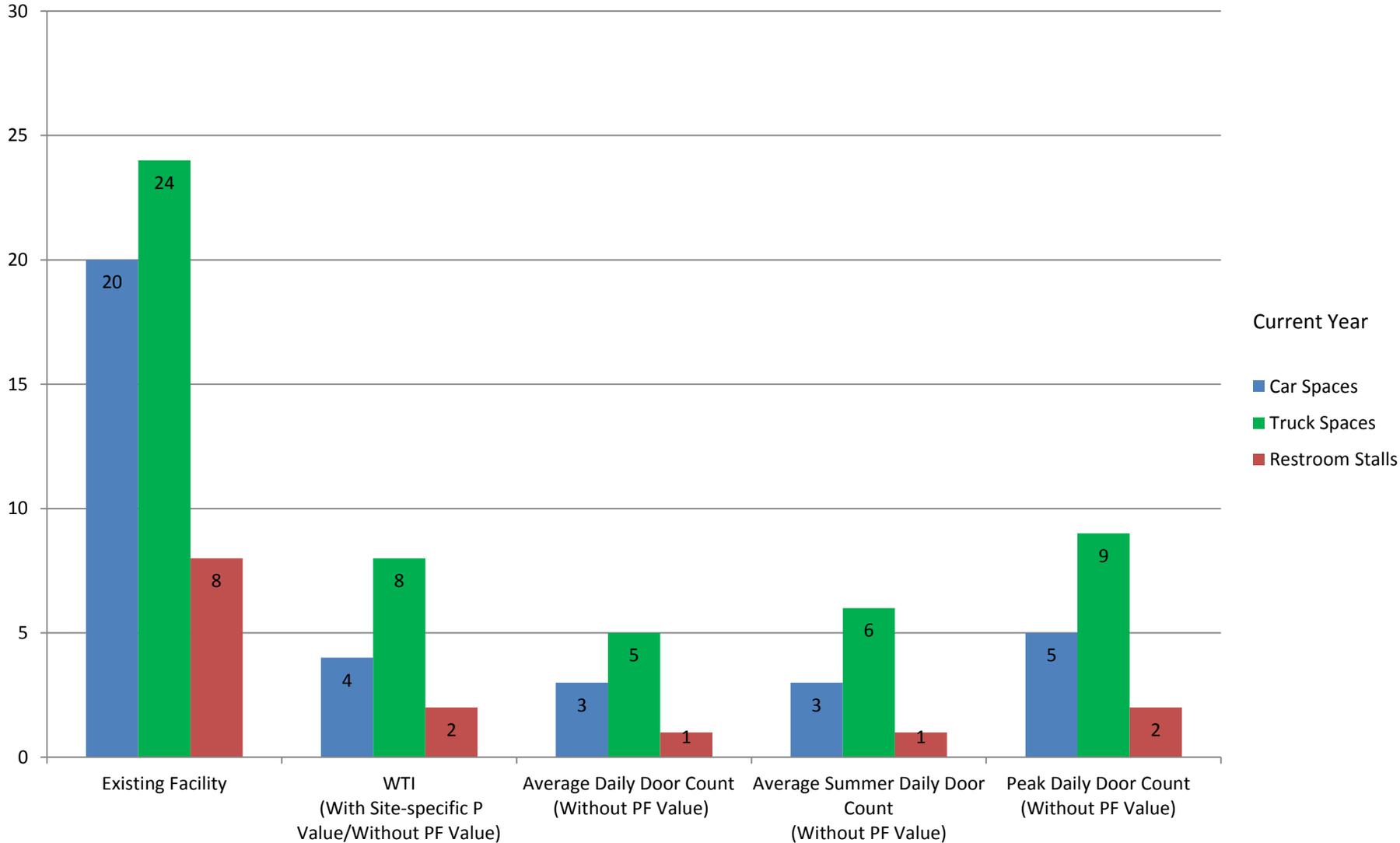
Custer (East) Rest Area Methodology Comparison



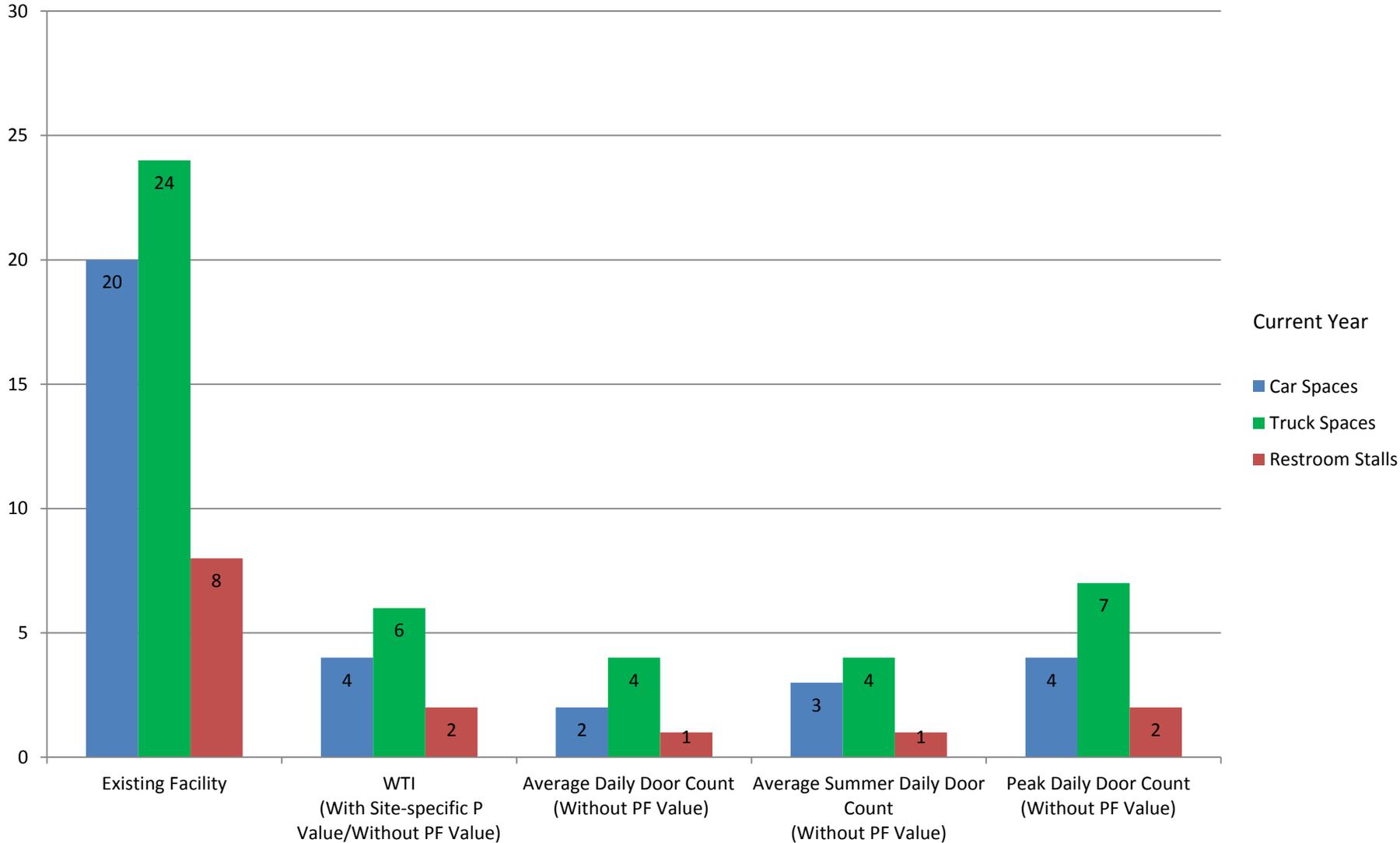
Custer (West) Rest Area Methodology Comparison



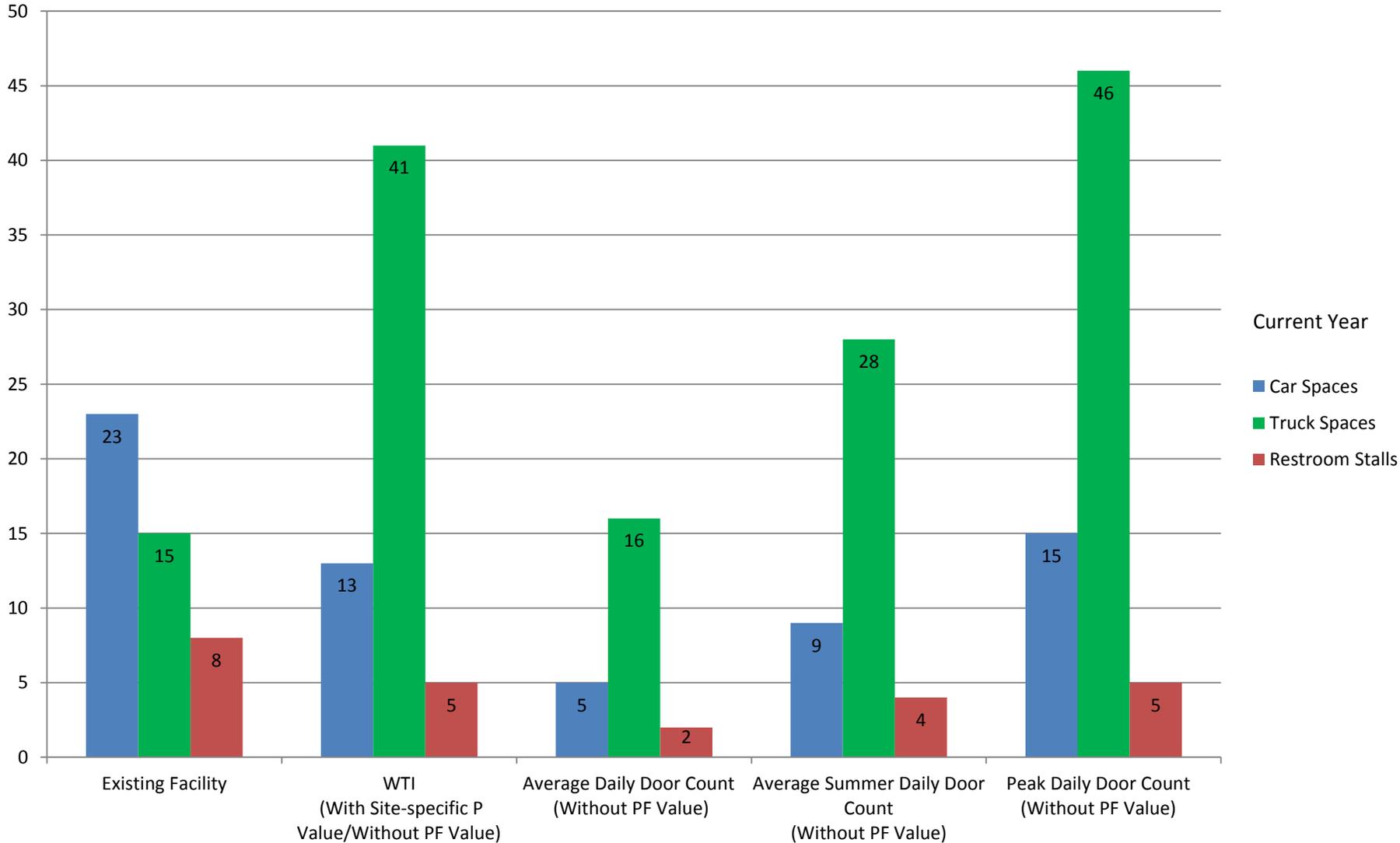
Dearborn (North) Rest Area Methodology Comparison



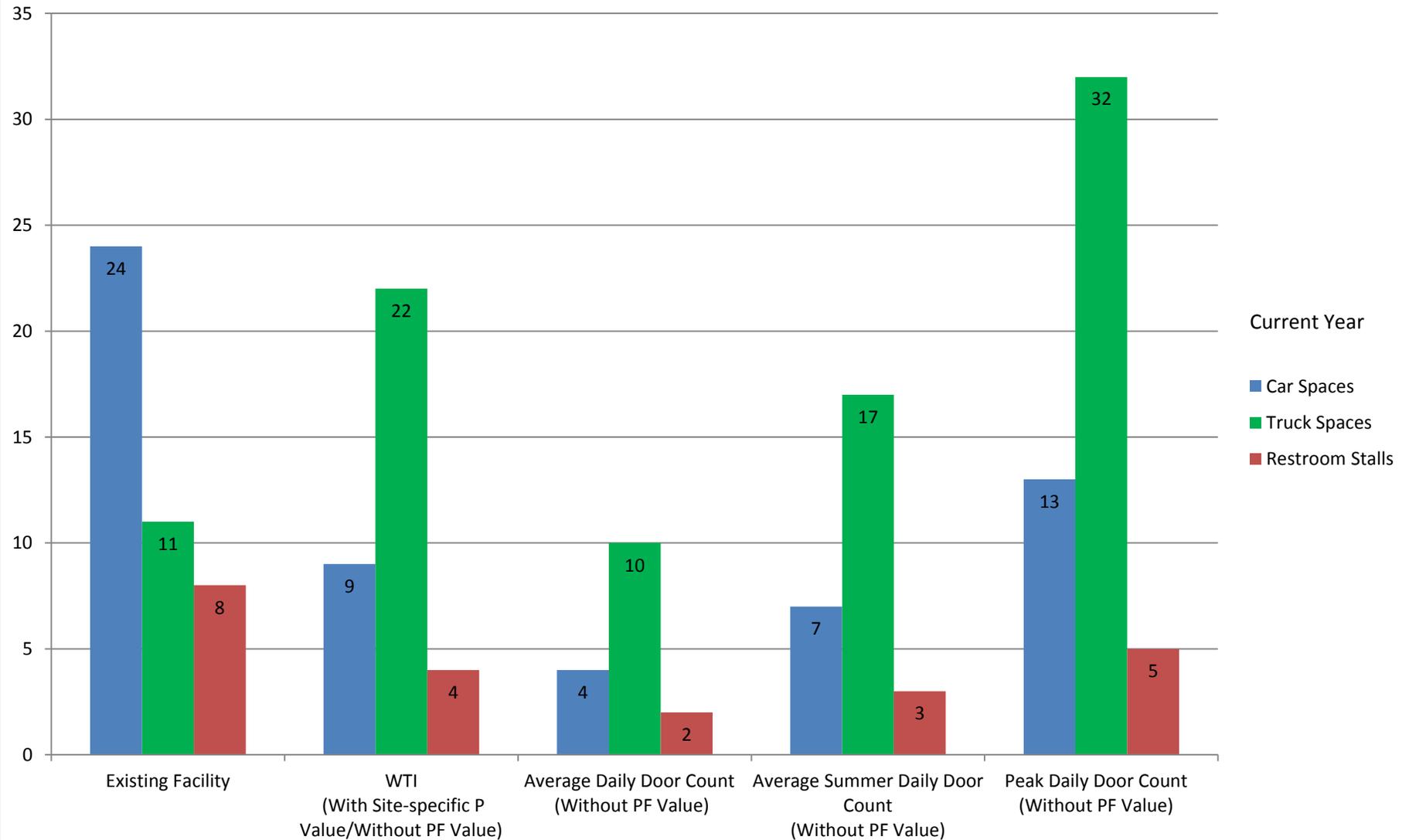
Dearborn (South) Rest Area Methodology Comparison



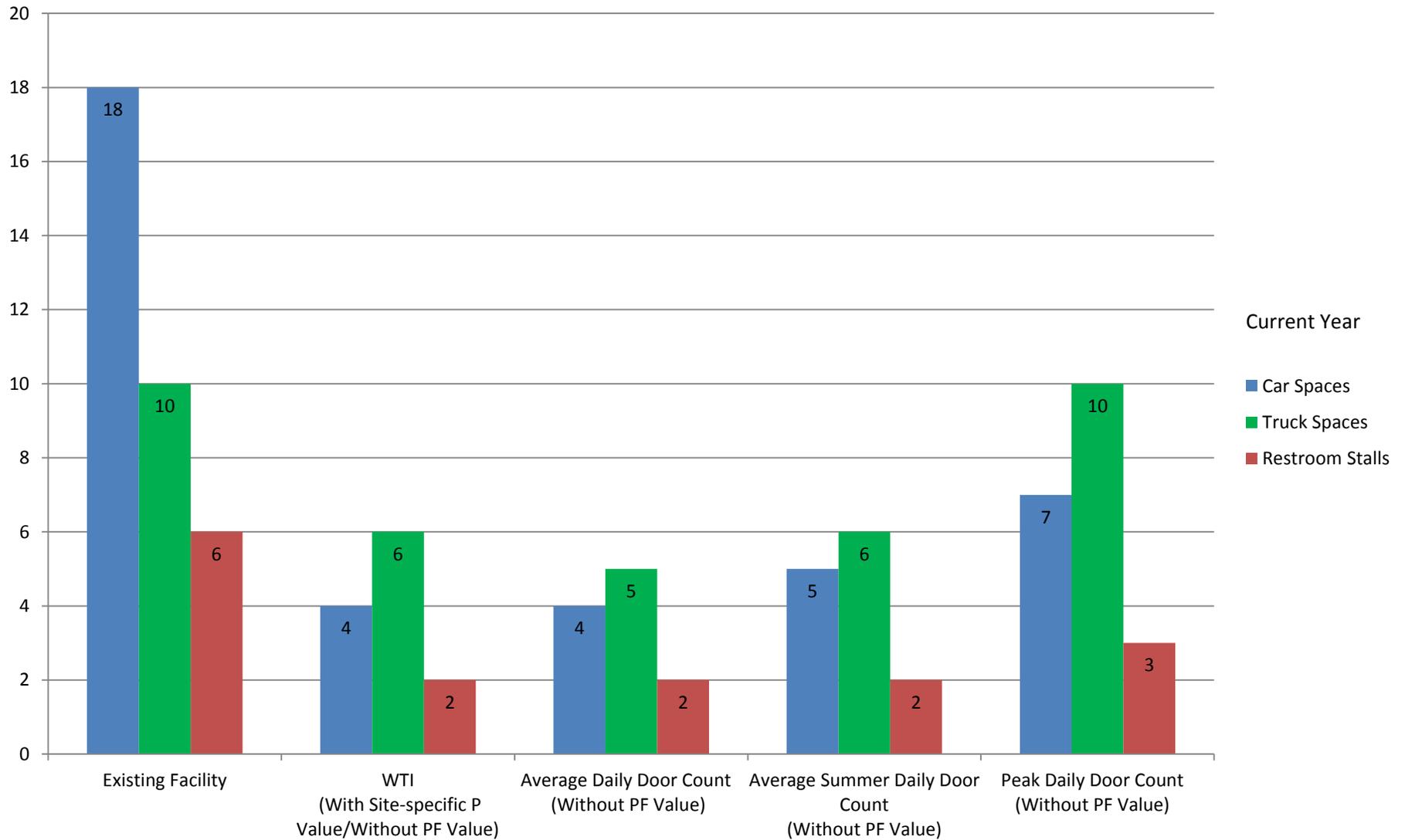
Dena Mora (East) Rest Area Methodology Comparison



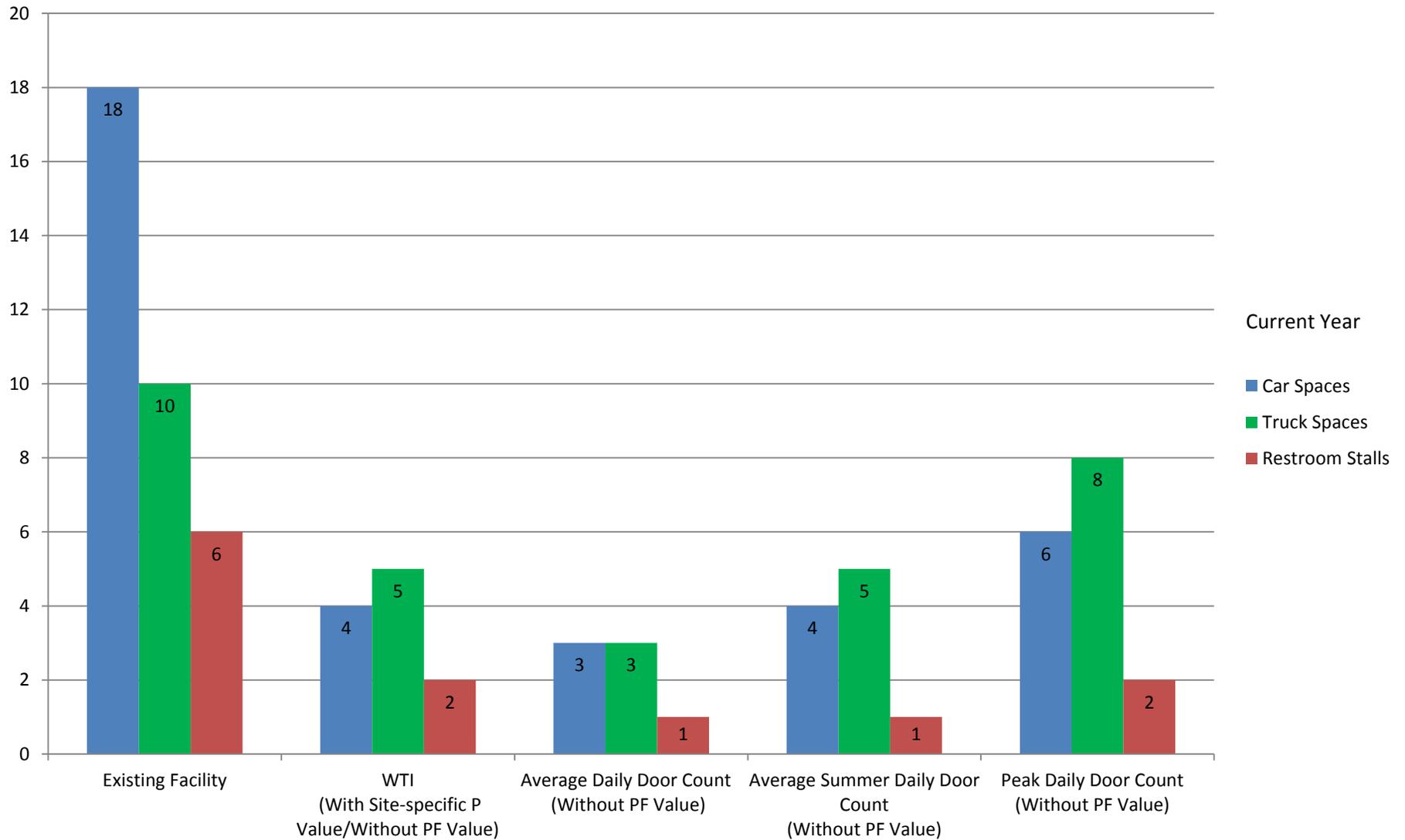
Dena Mora (West) Rest Area Methodology Comparison



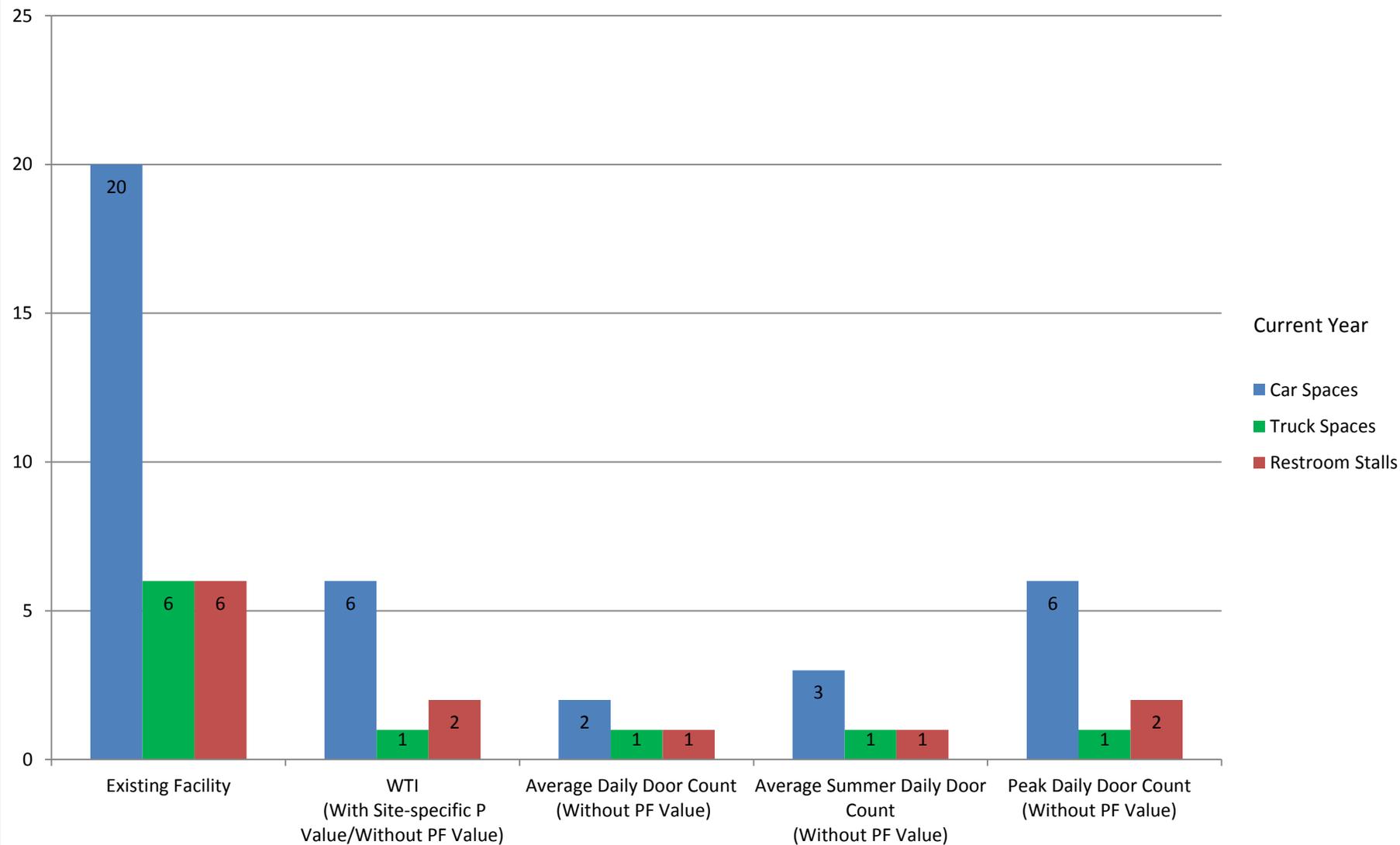
Divide (North) Rest Area Methodology Comparison



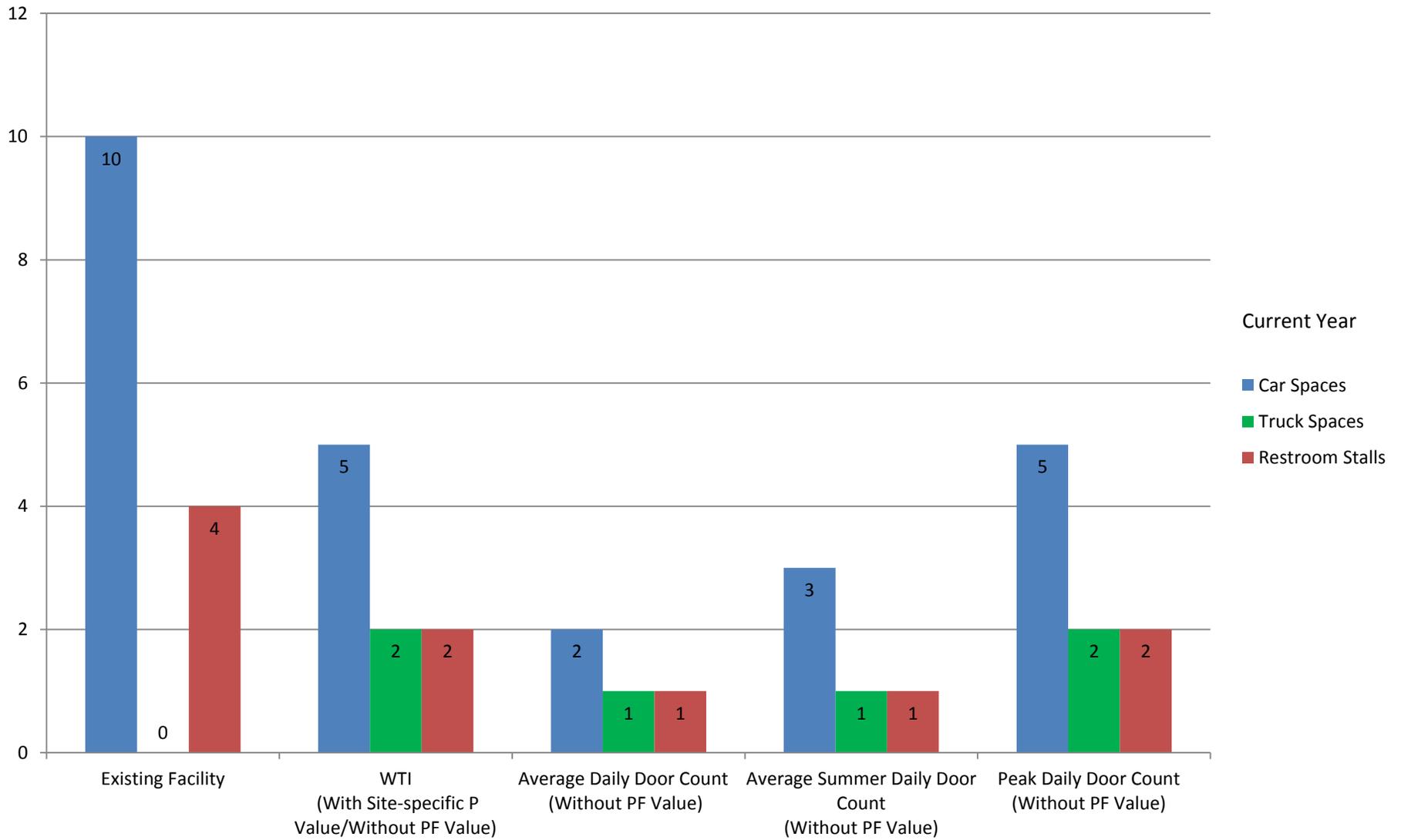
Divide (South) Rest Area Methodology Comparison



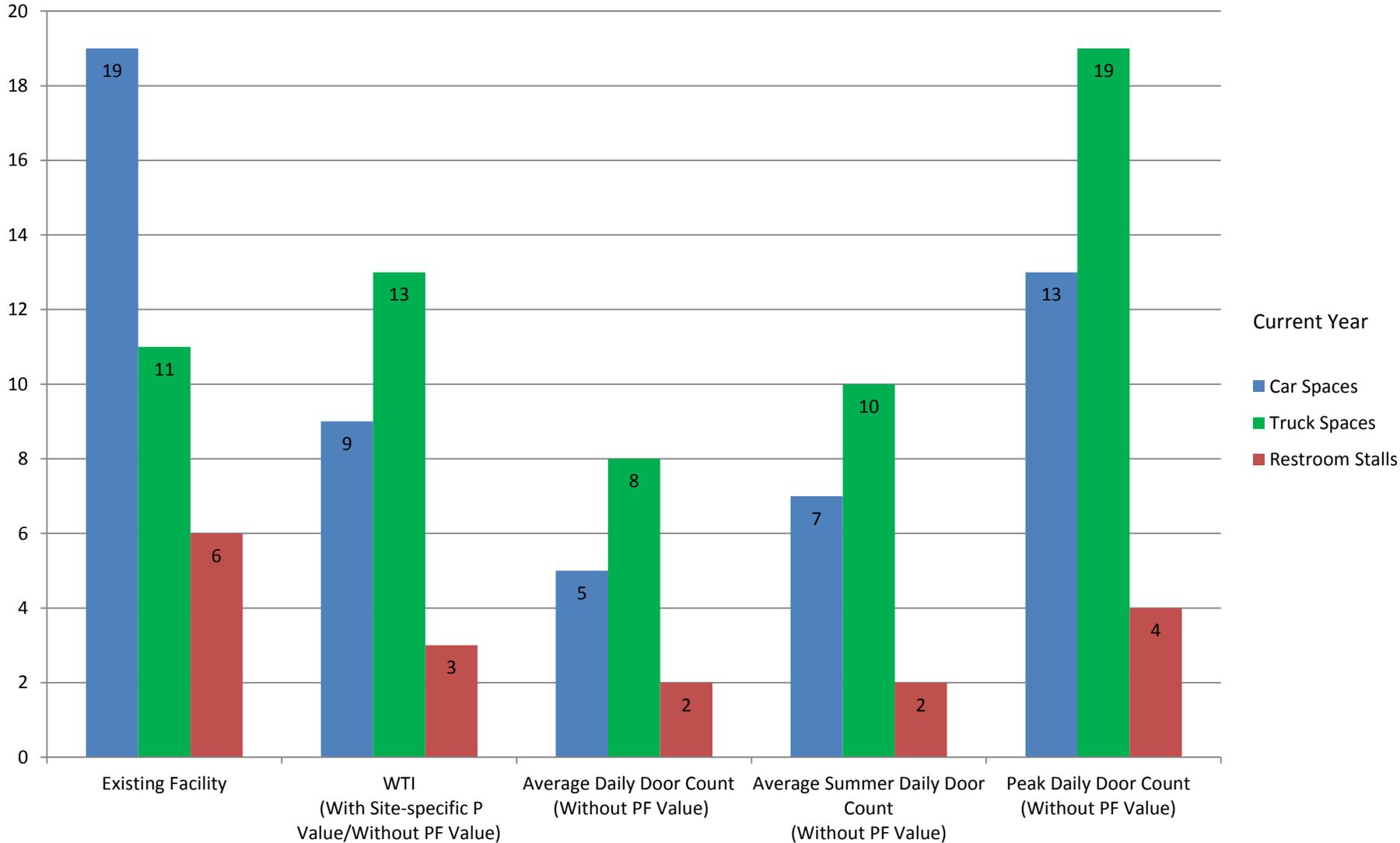
Emigrant Rest Area Methodology Comparison



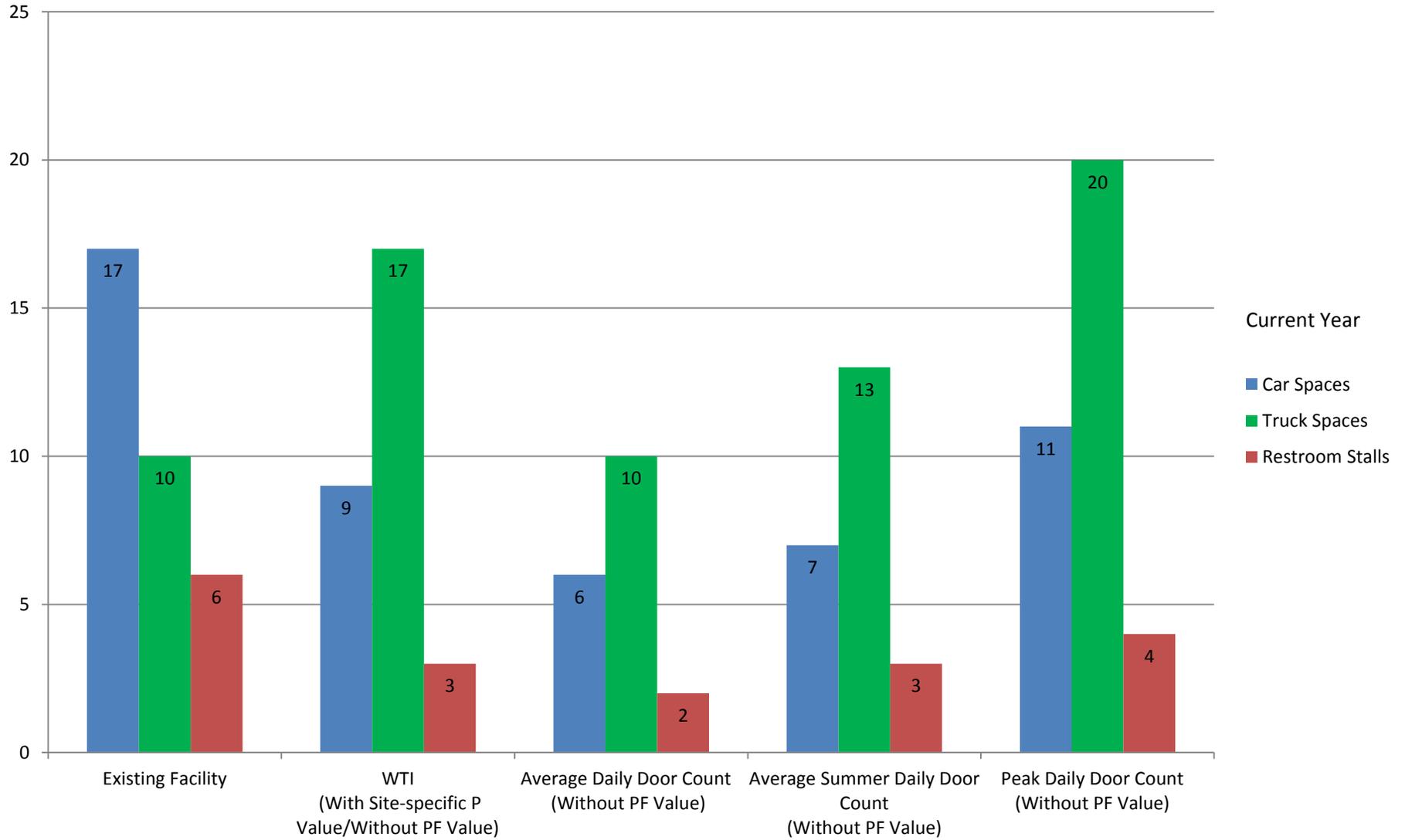
Flowing Wells Rest Area Methodology Comparison



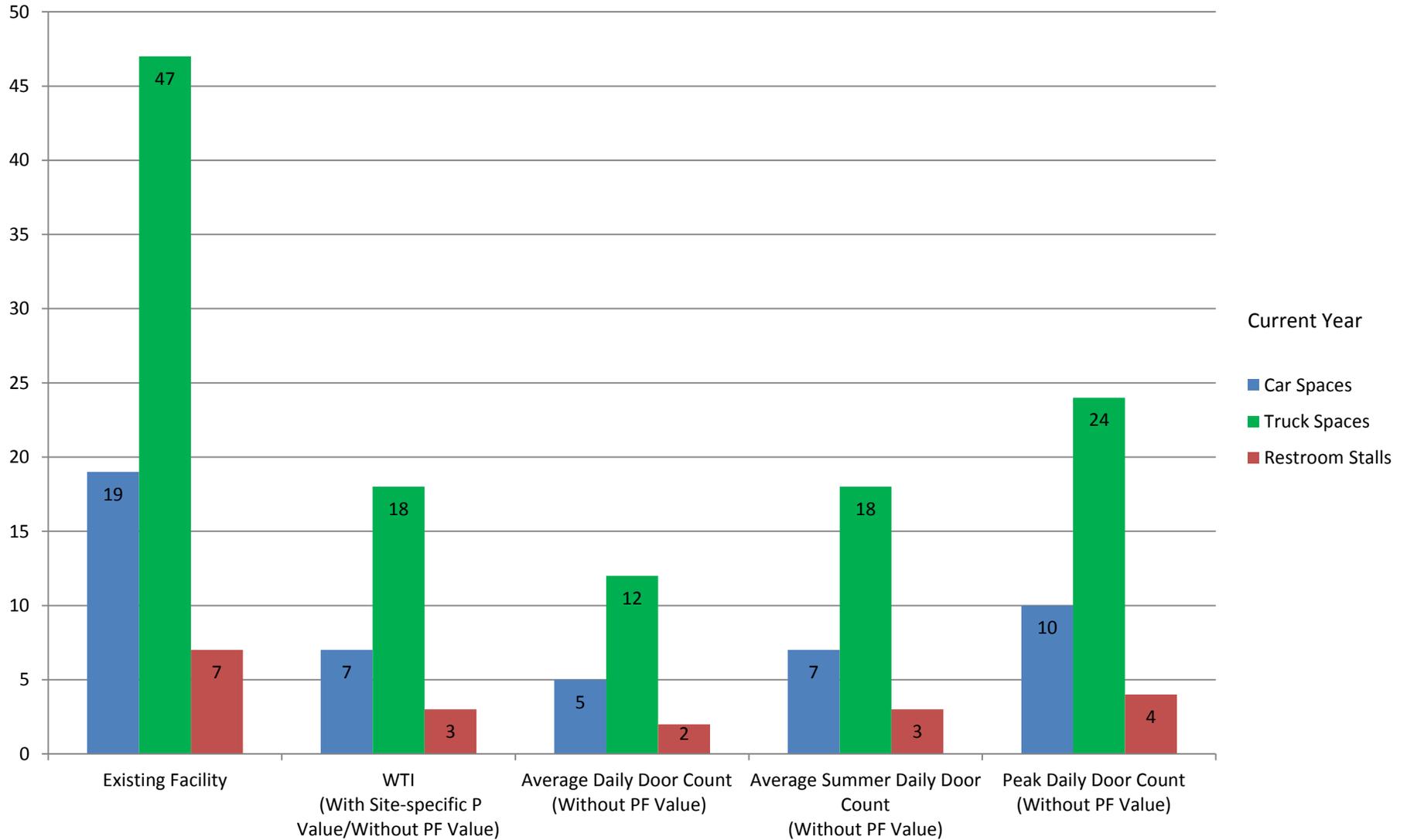
Gold Creek (East) Rest Area Methodology Comparison



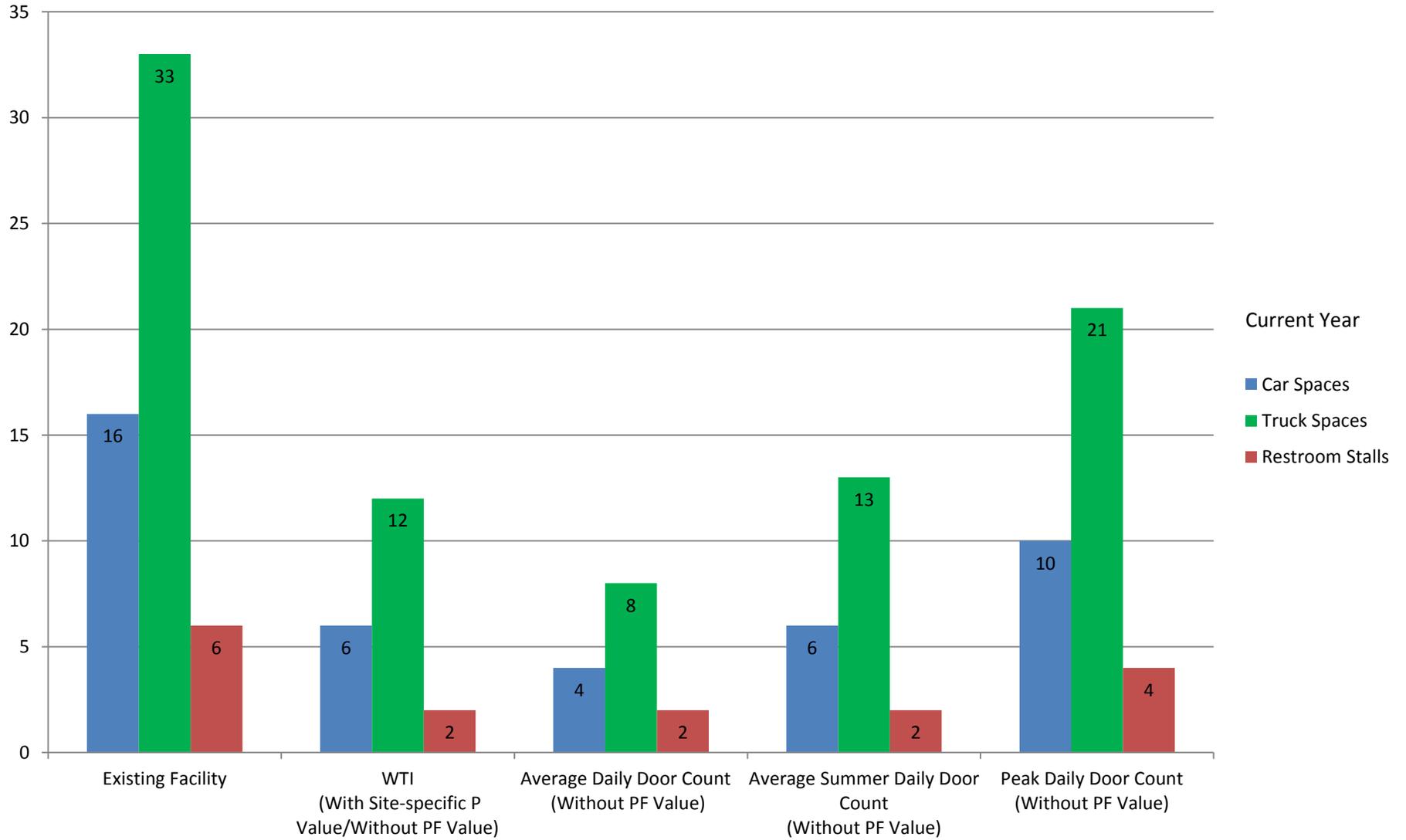
Gold Creek (West) Rest Area Methodology Comparison



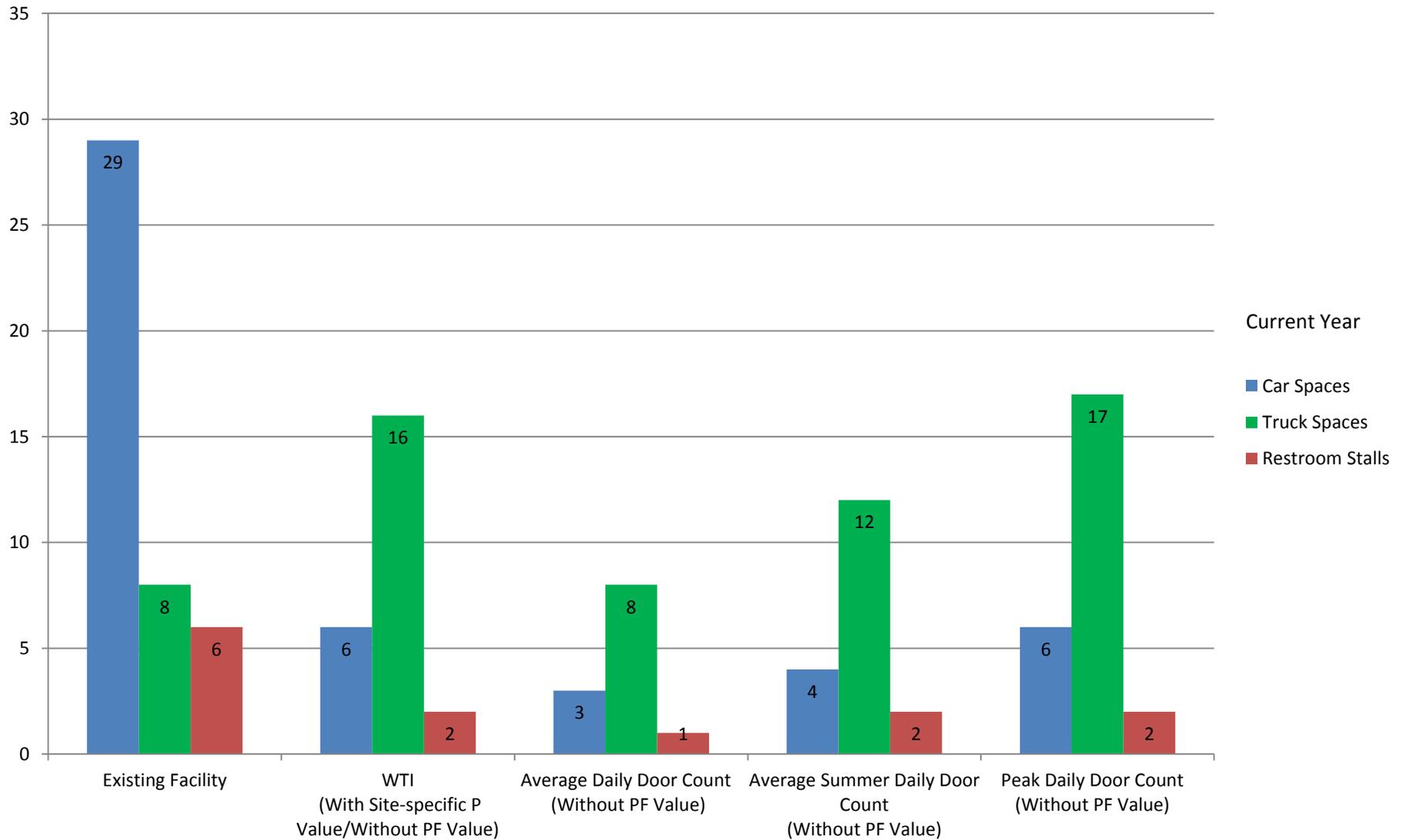
Greycliff (East) Rest Area Methodology Comparison



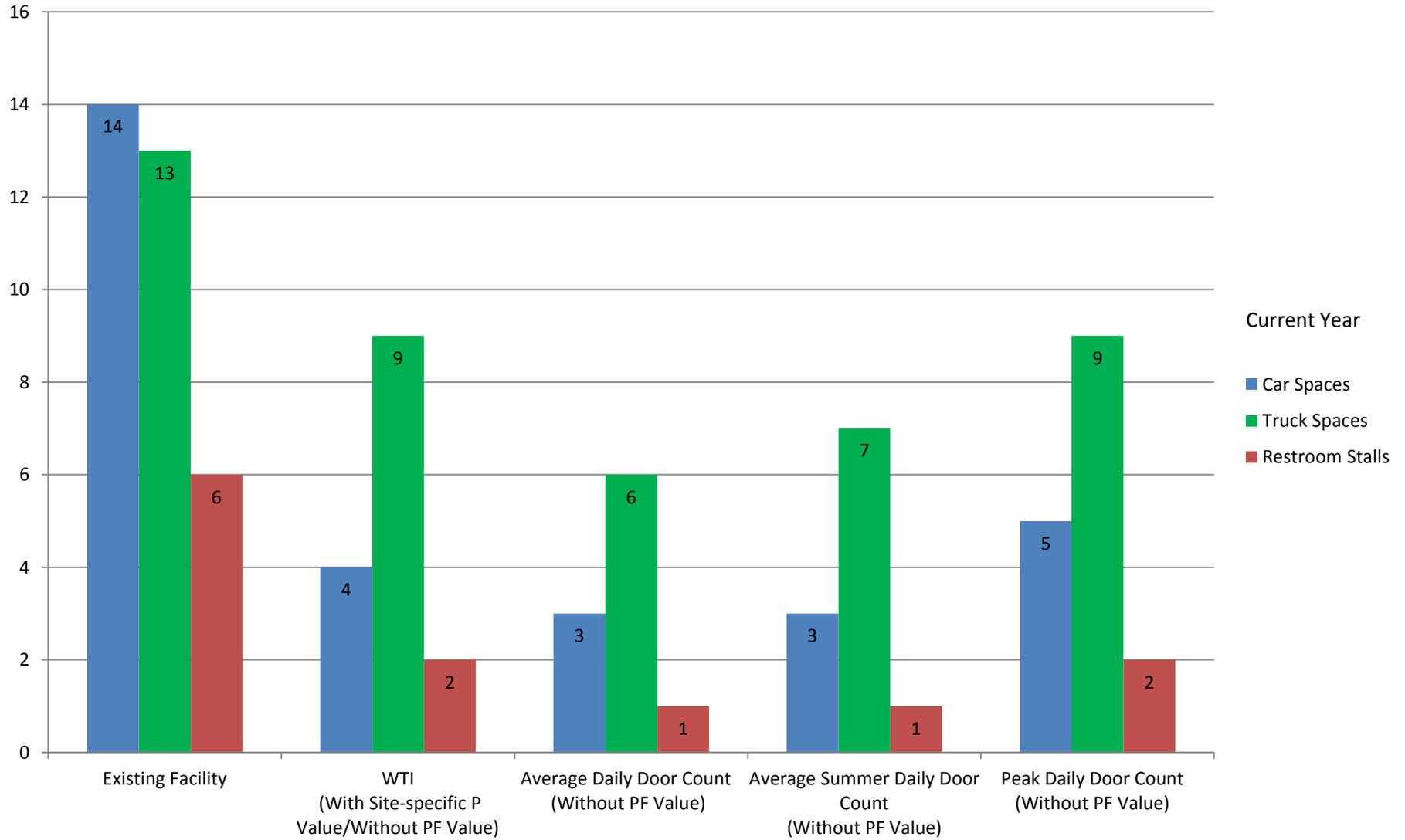
Greycliff (West) Rest Area Methodology Comparison



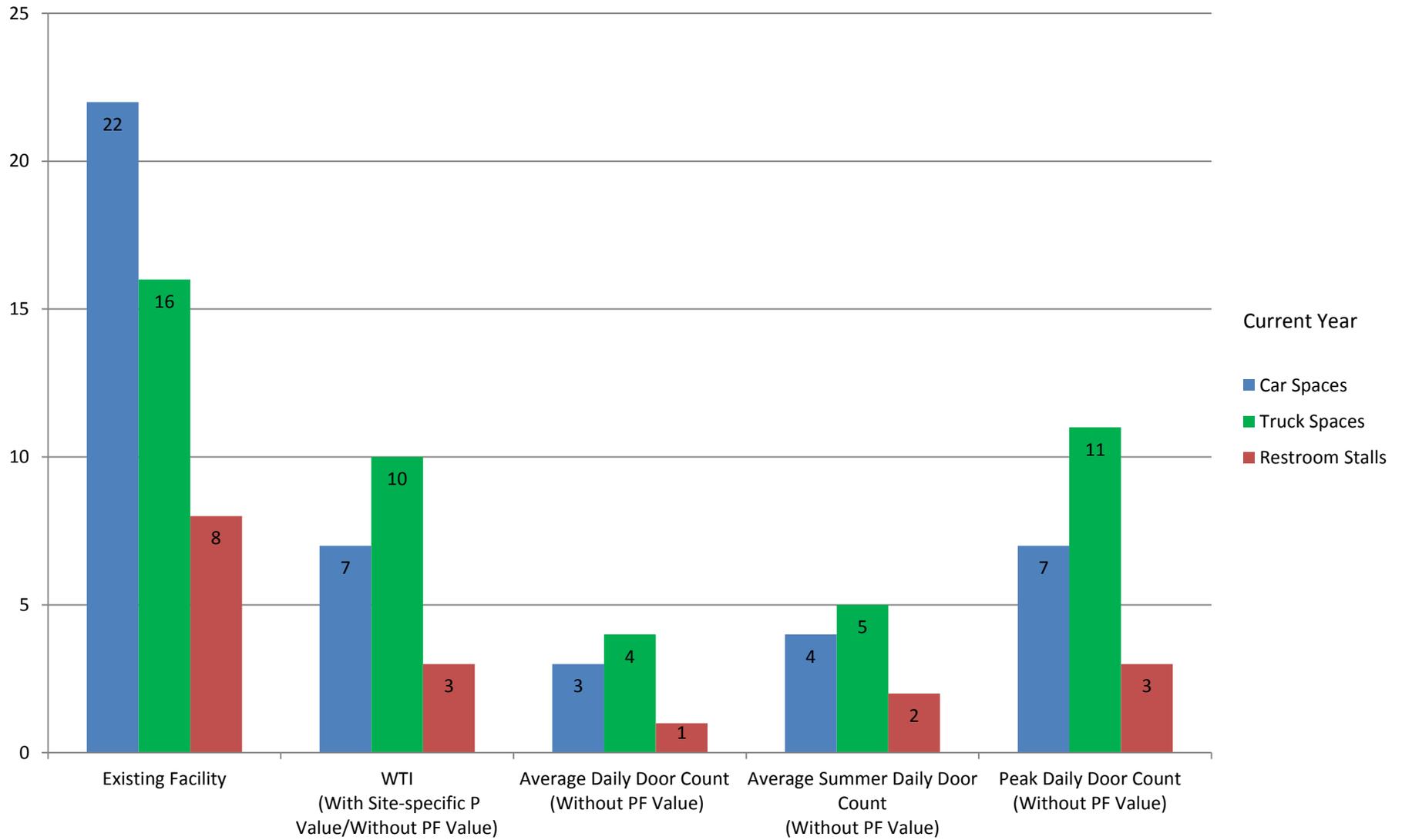
Hardin (East) Rest Area Methodology Comparison



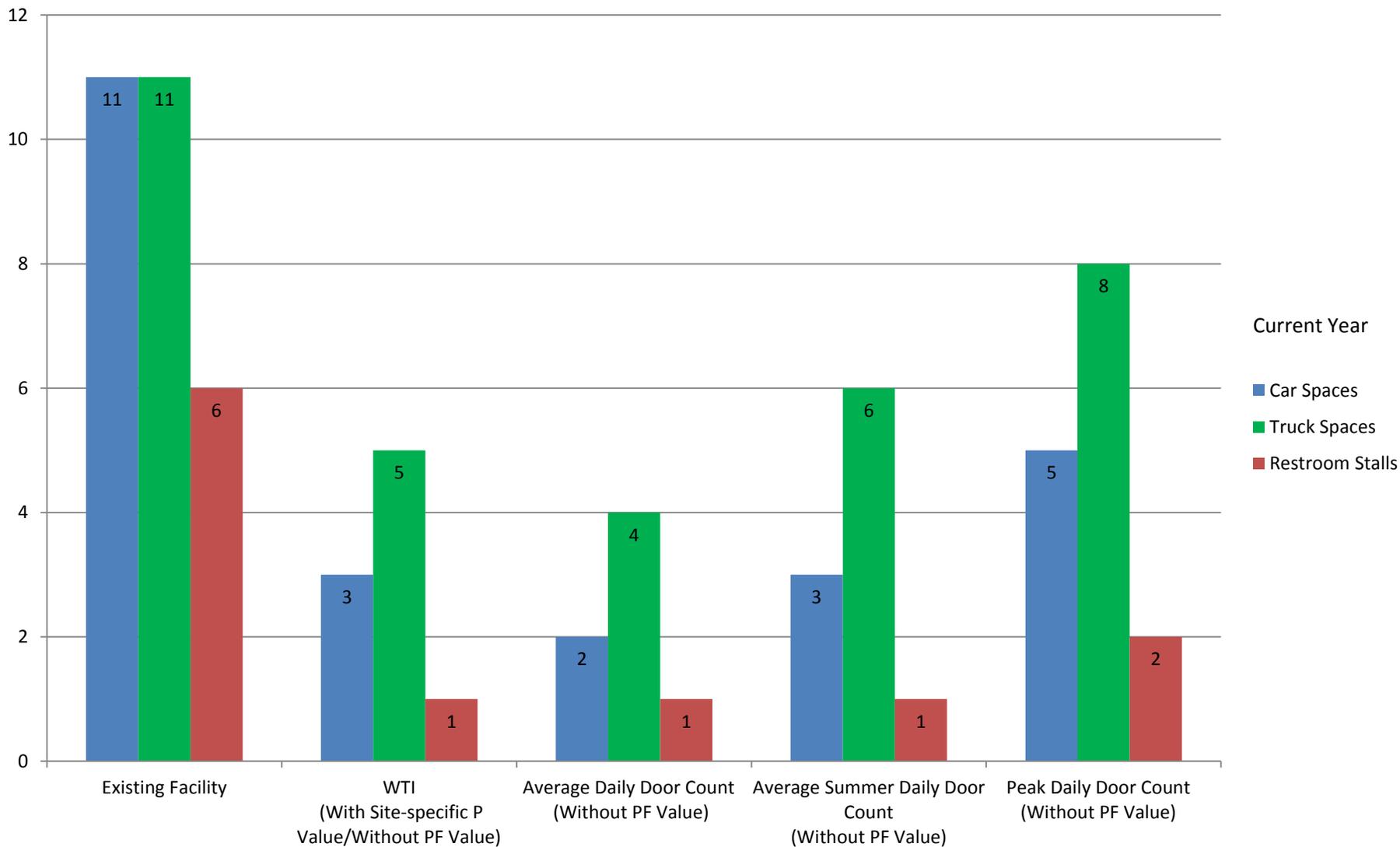
Hardin (West) Rest Area Methodology Comparison



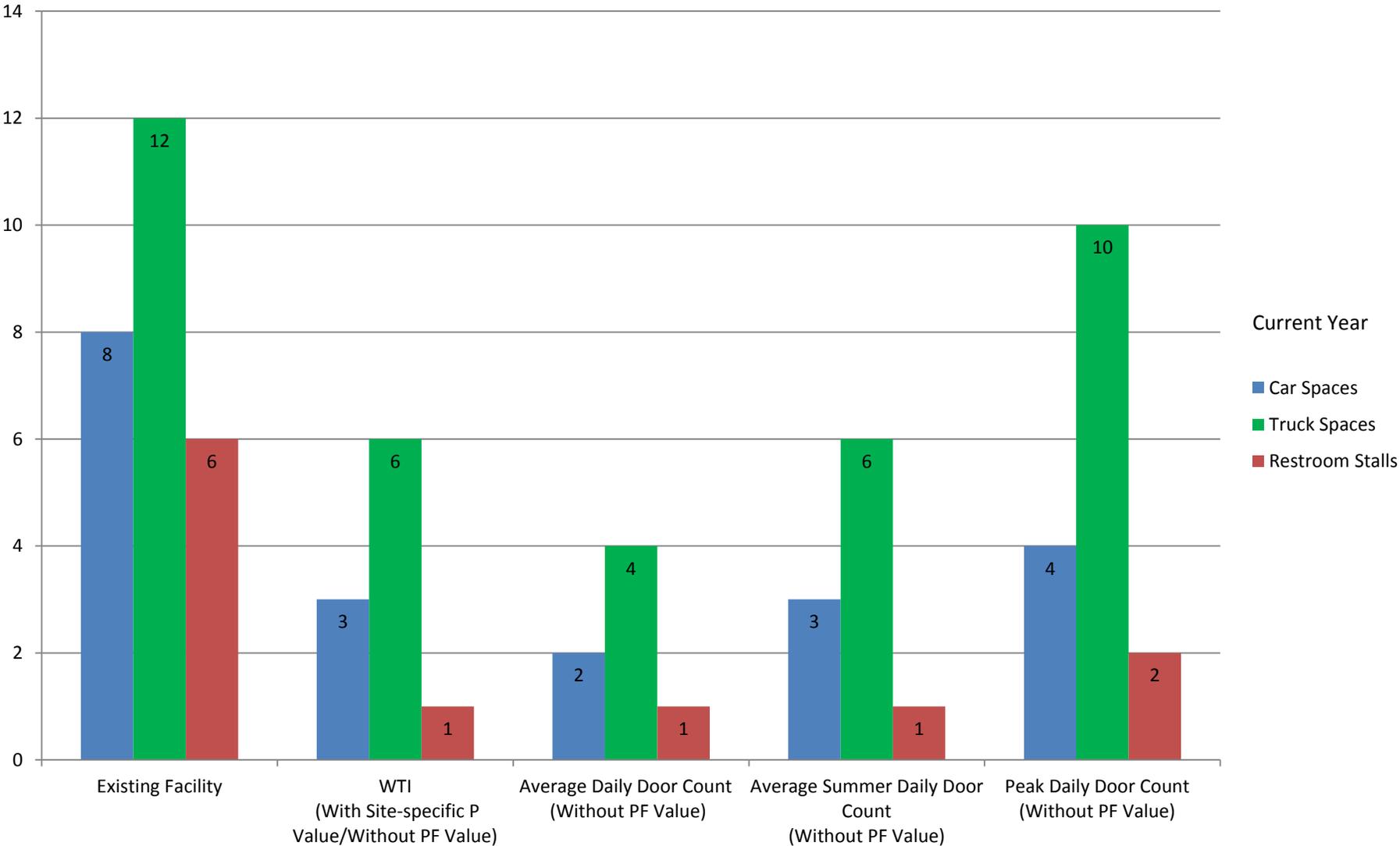
Harlowton Rest Area Methodology Comparison



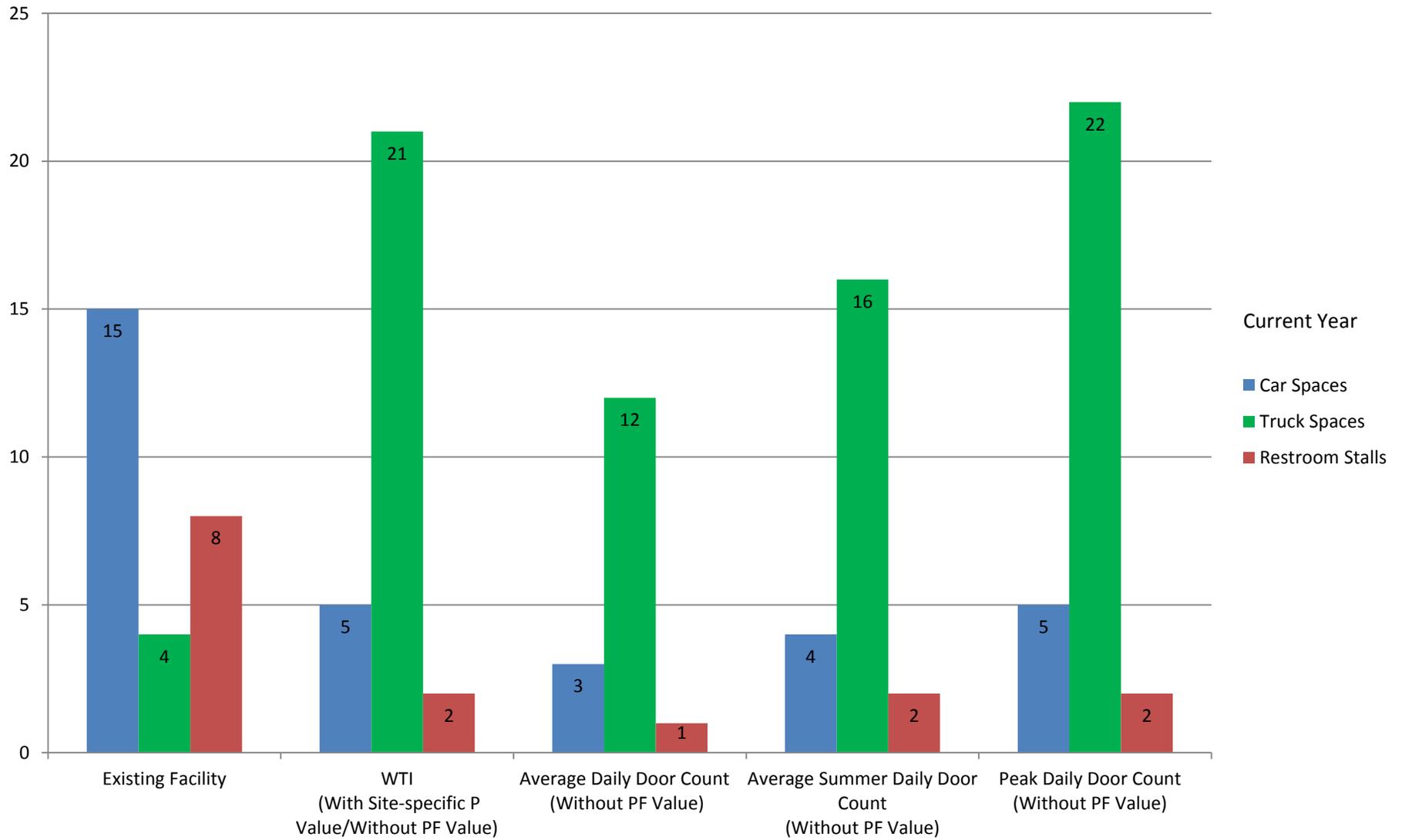
Hathaway (East) Rest Area Methodology Comparison



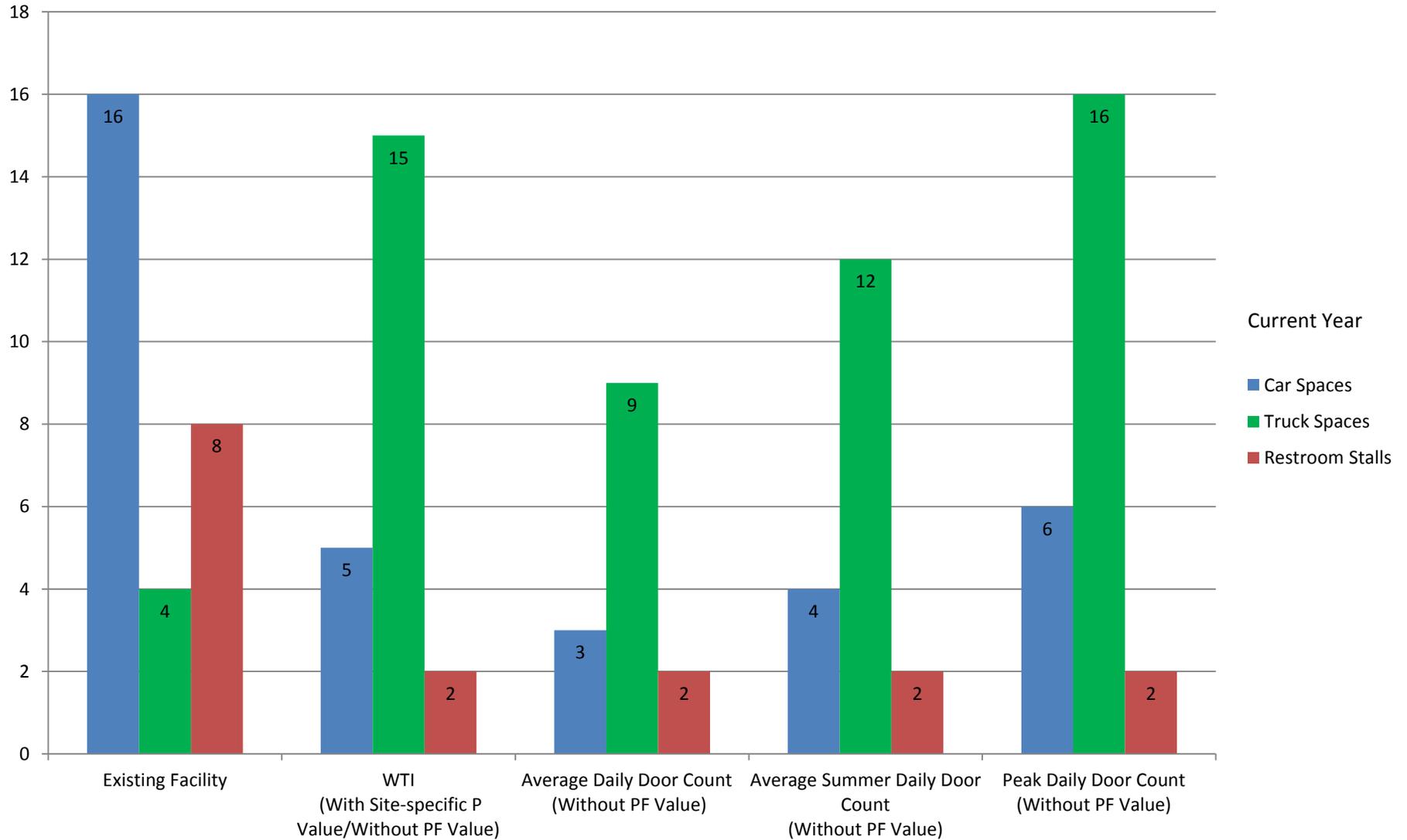
Hathaway (West) Rest Area Methodology Comparison



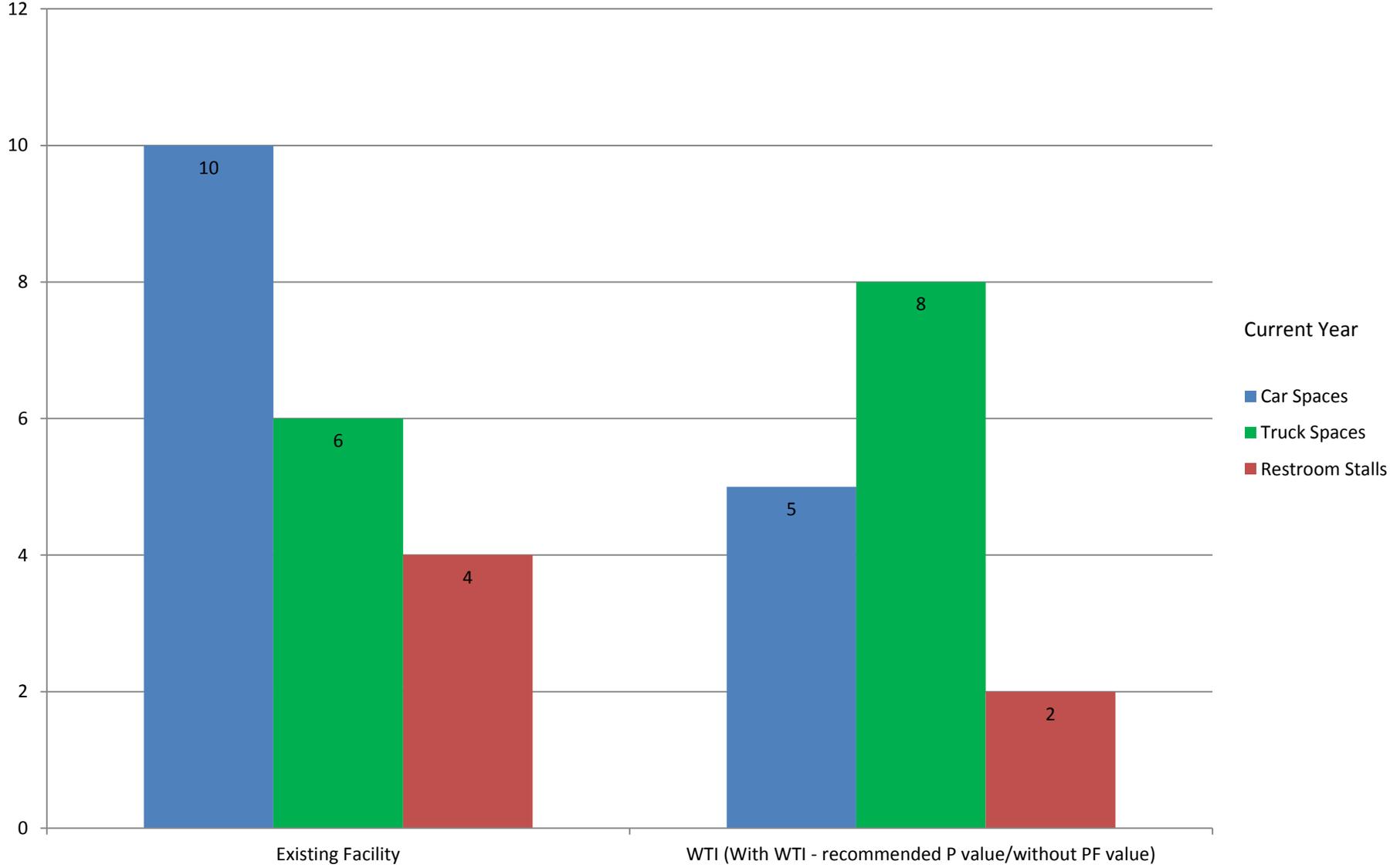
Hysham (East) Rest Area Methodology Comparison



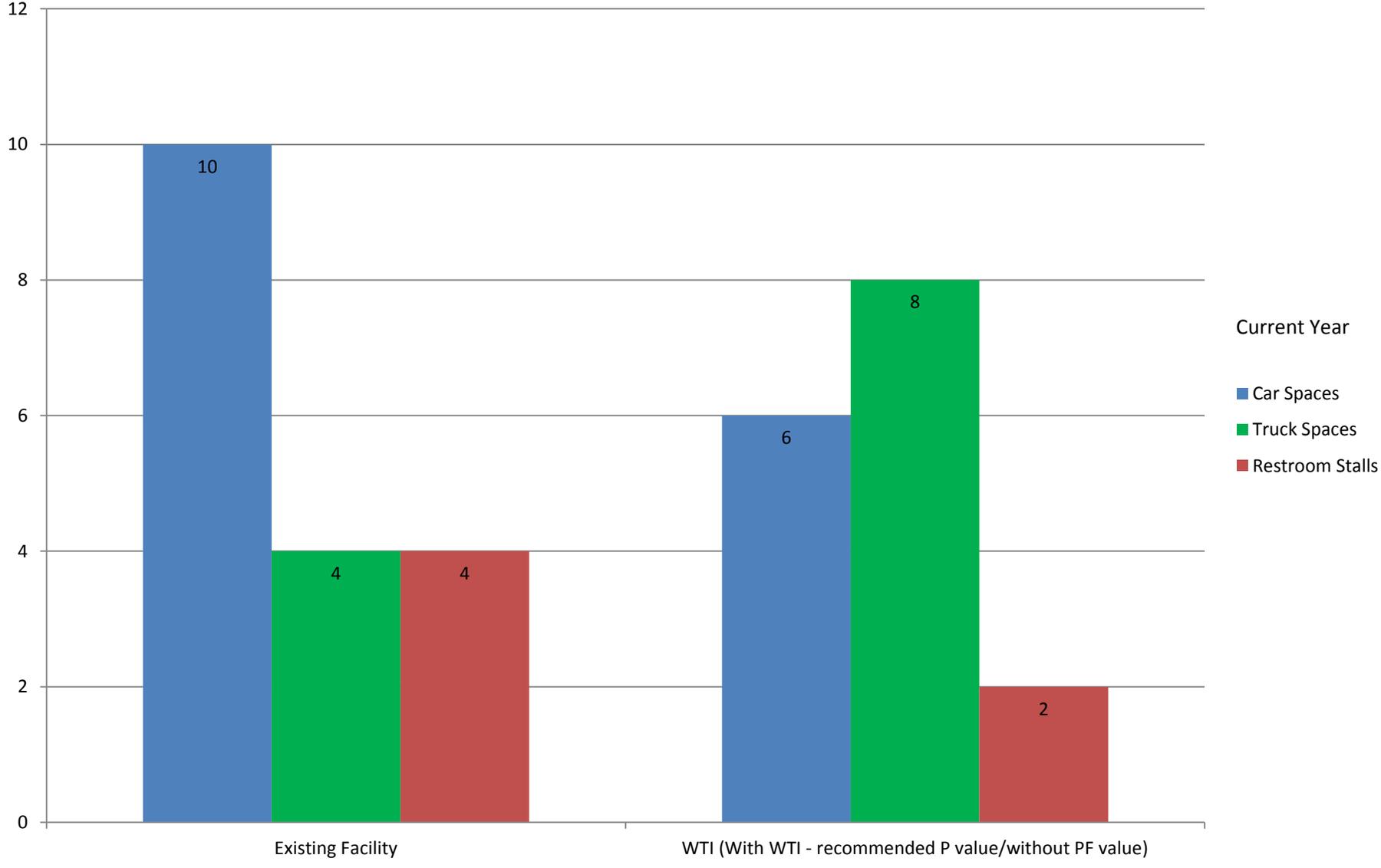
Hysham (West) Rest Area Methodology Comparison



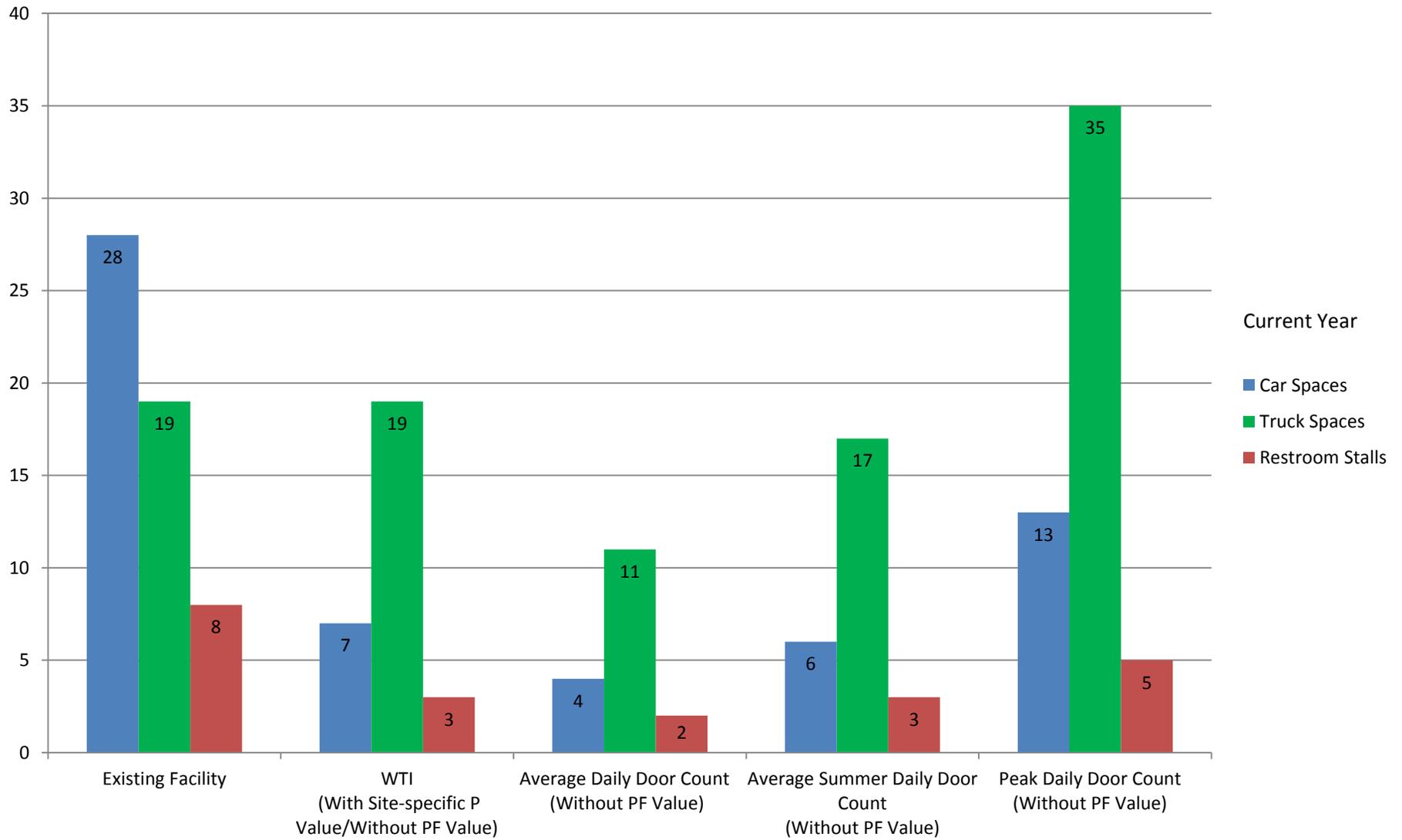
Jefferson City (North) Rest Area Methodology Comparison



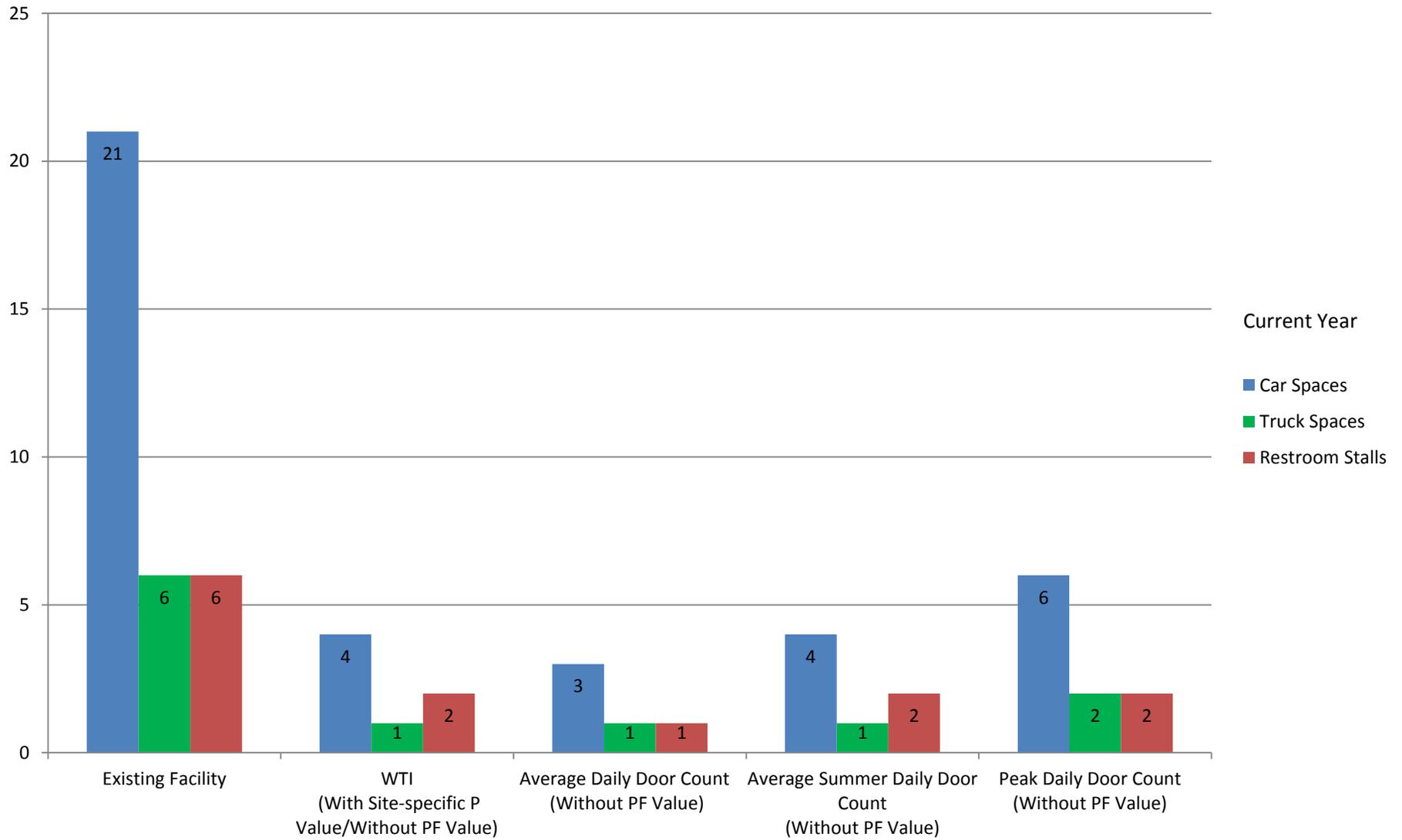
Jefferson City (South) Rest Area Methodology Comparison



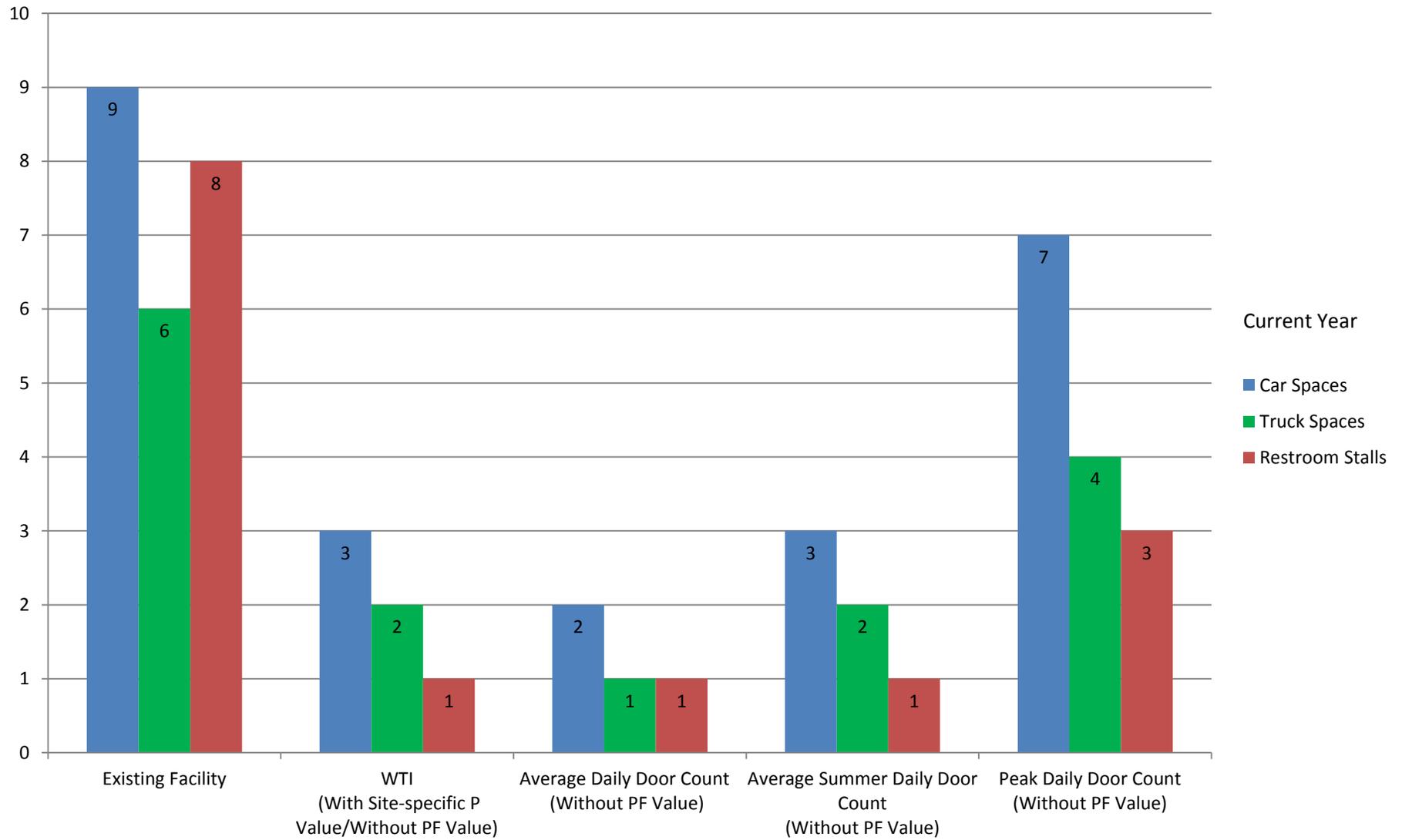
Lima Rest Area Methodology Comparison



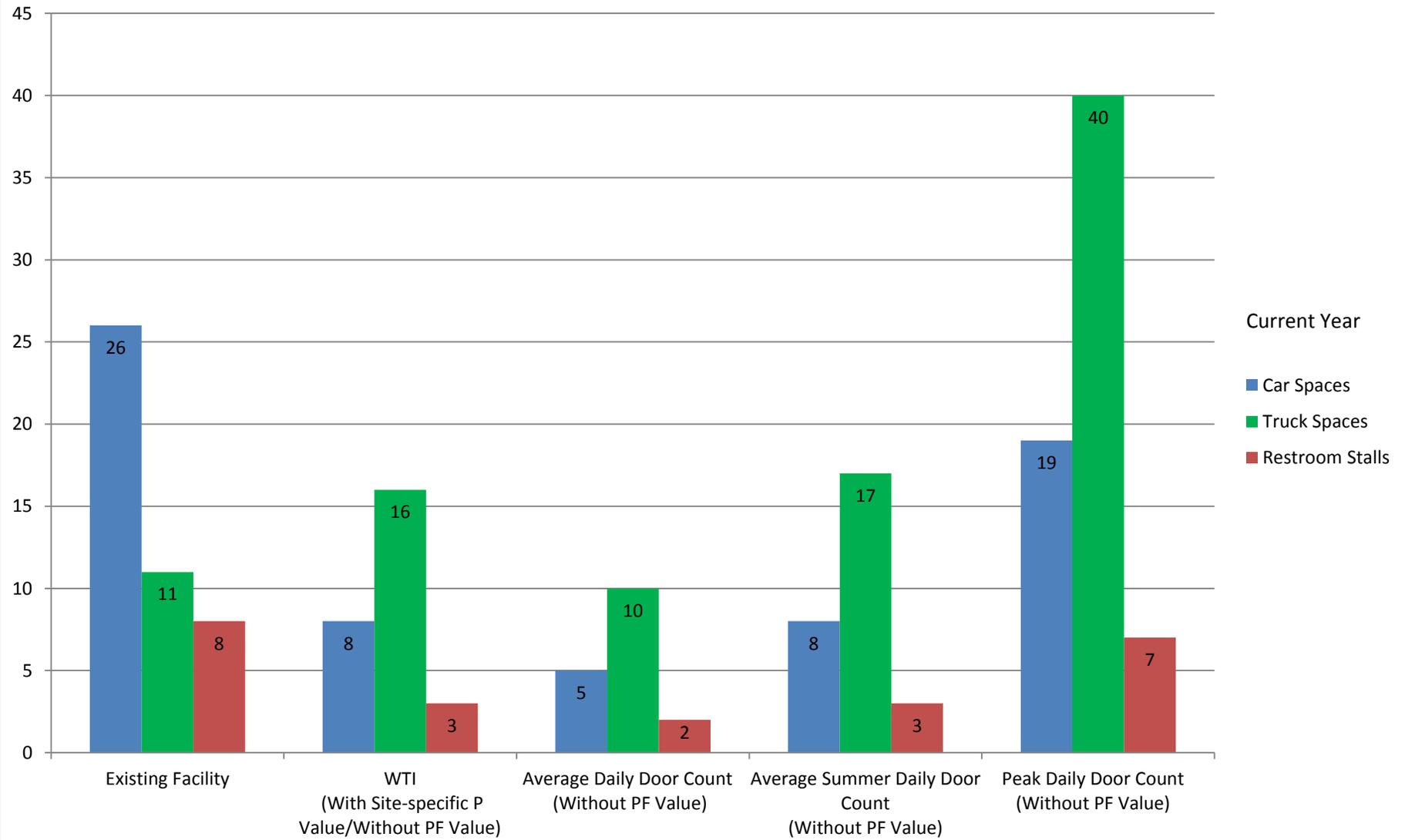
Lost Trail Pass Rest Area Methodology Comparison



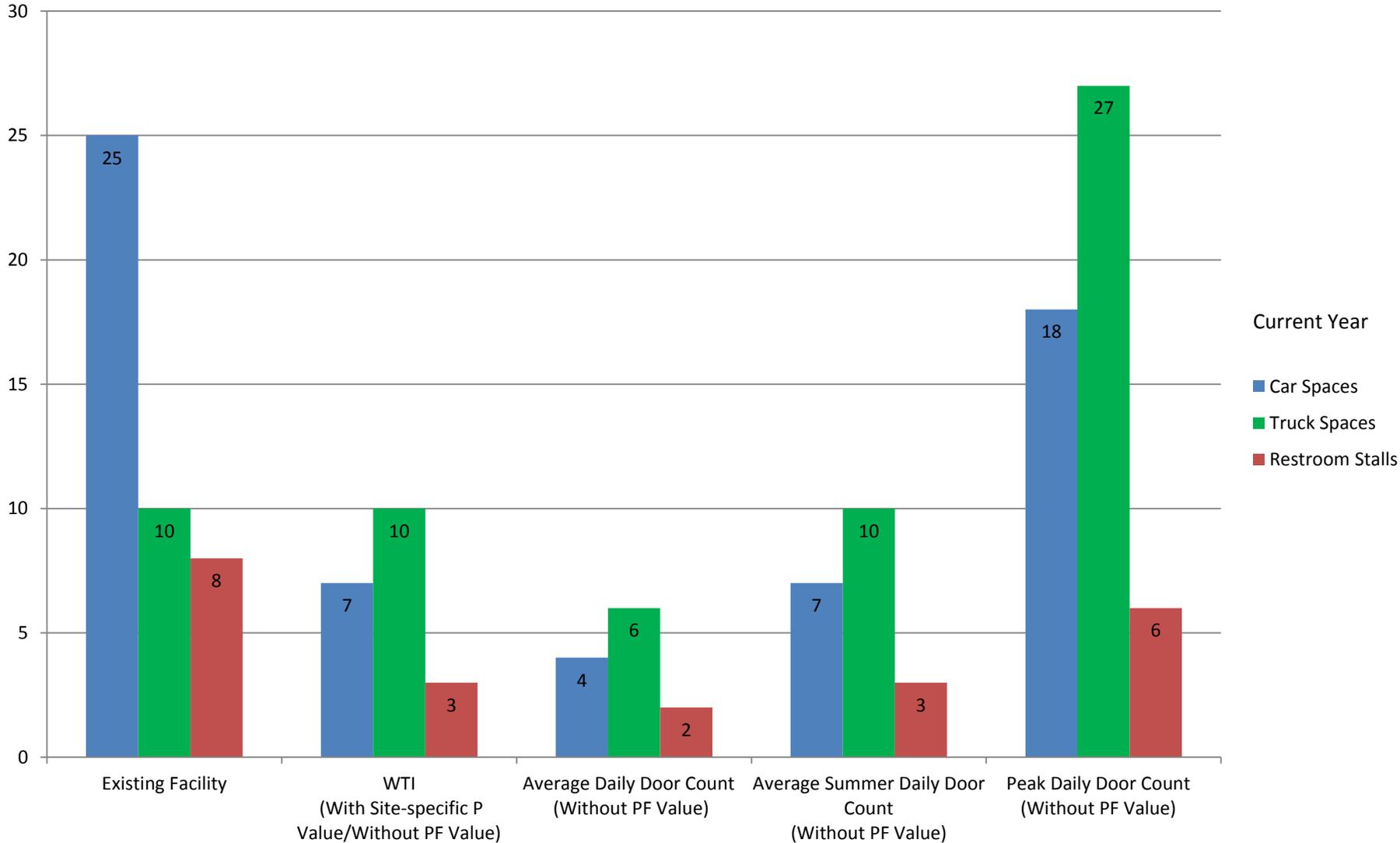
Mosby Rest Area Methodology Comparison



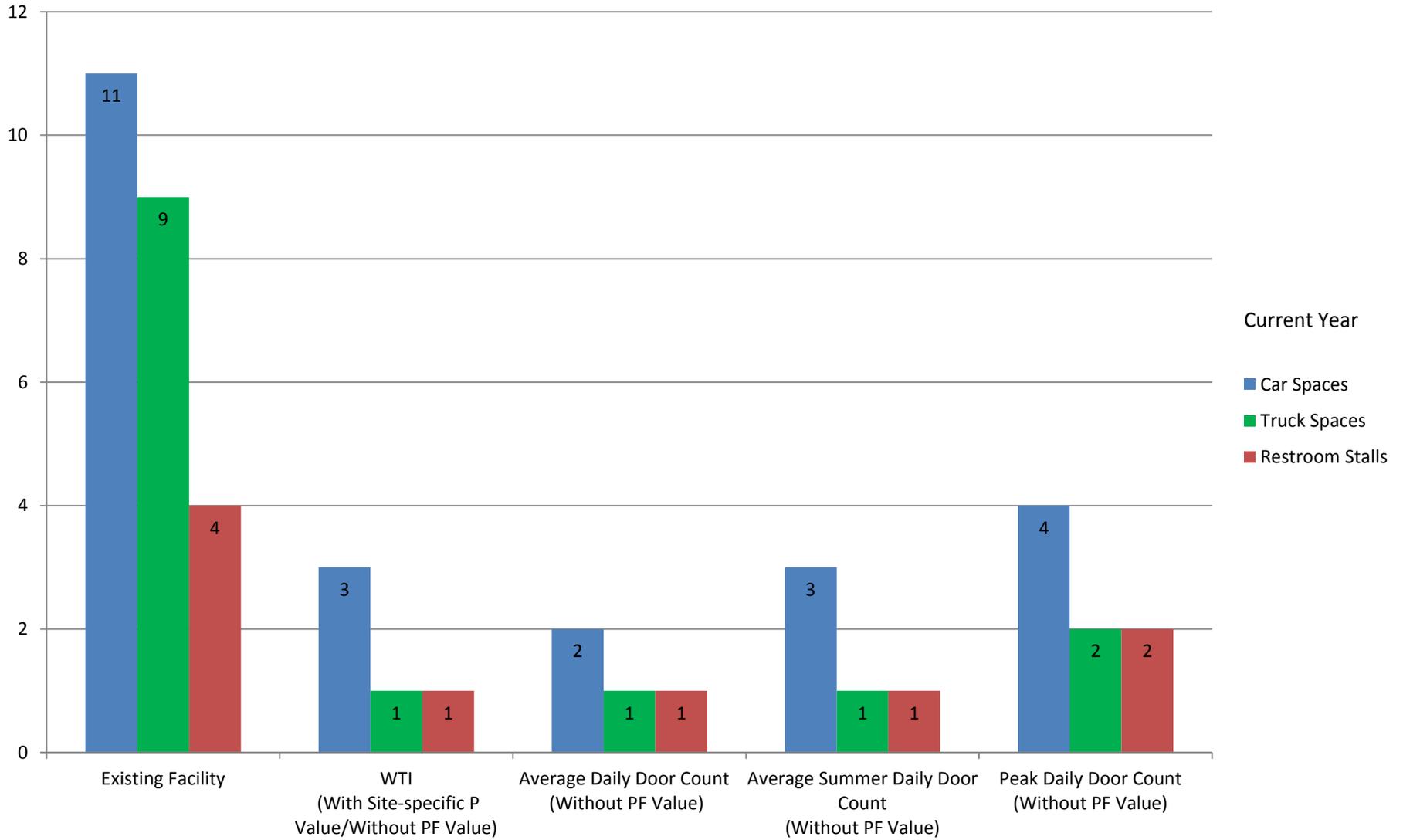
Quartz Flats (East) Rest Area Methodology Comparison



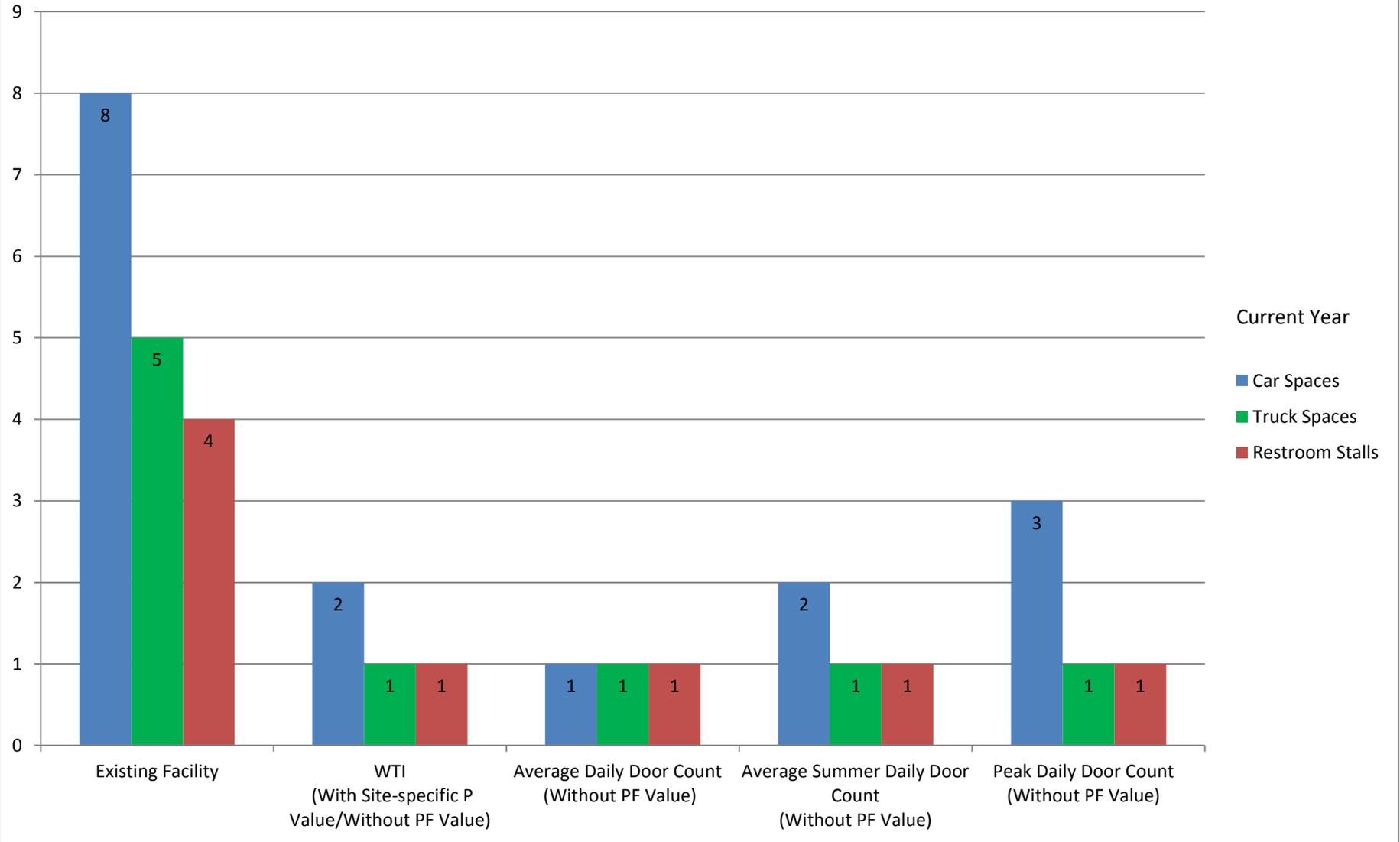
Quartz Flats (West) Rest Area Methodology Comparison



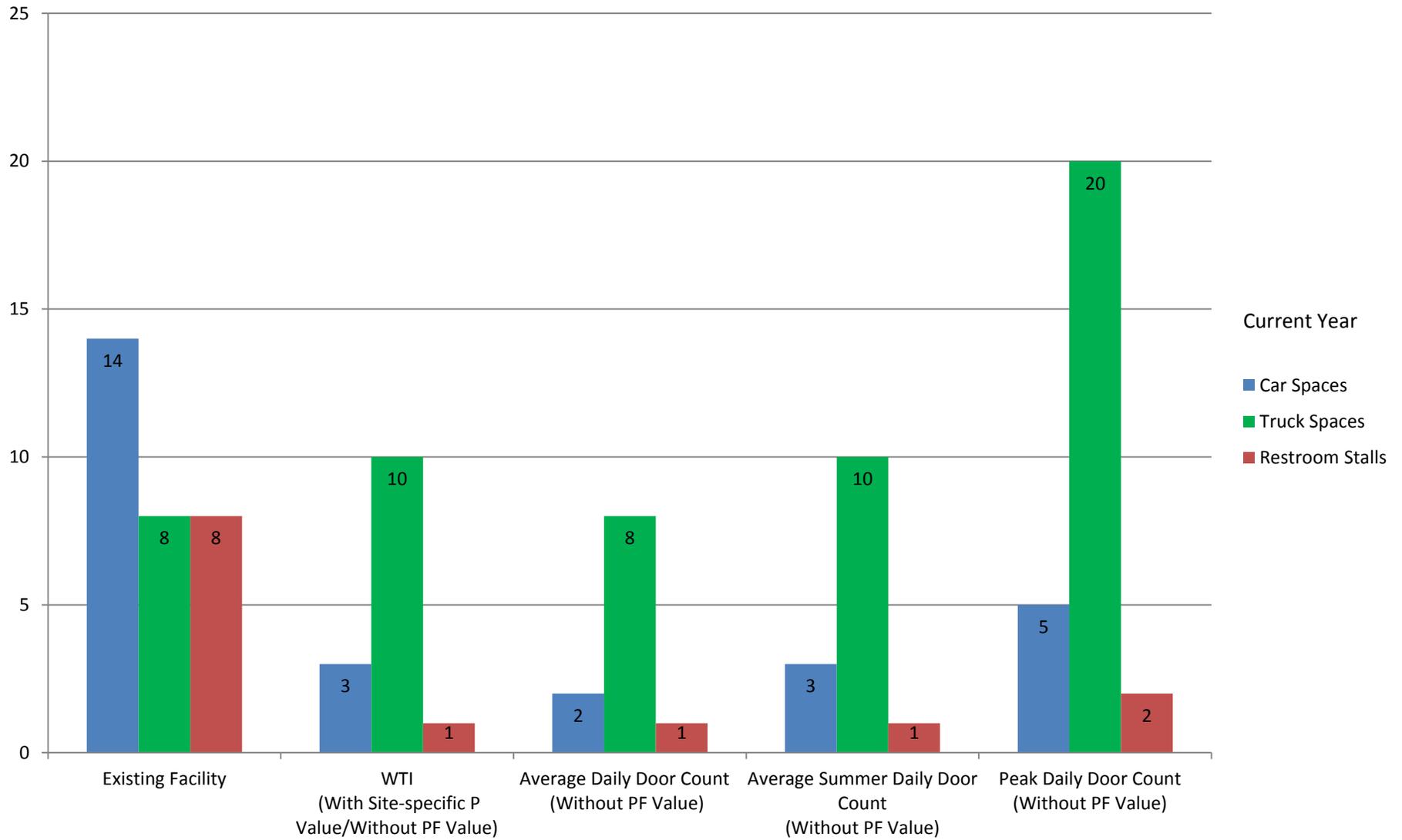
Raynolds Pass Rest Area Methodology Comparison



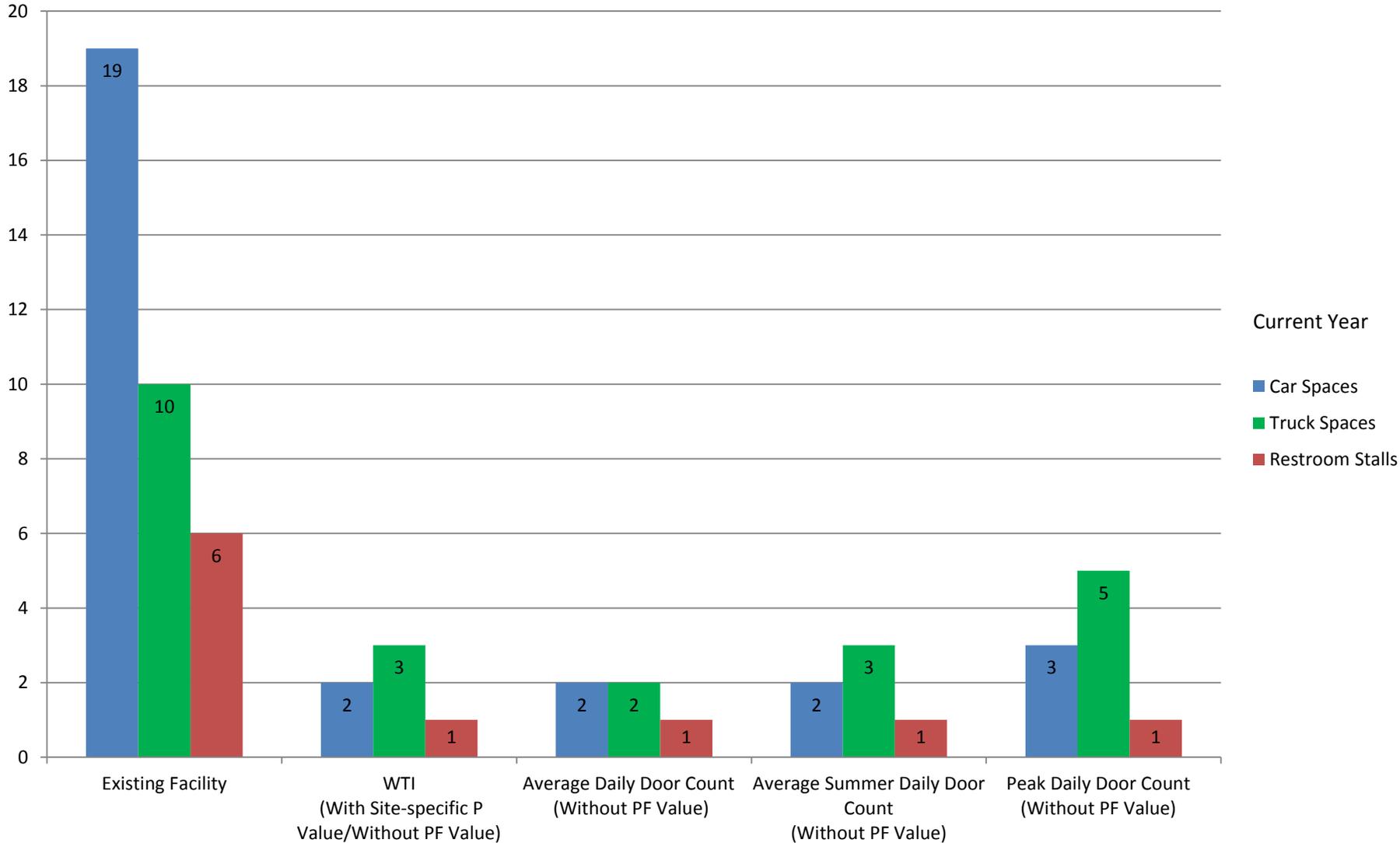
Roberts Rest Area Methodology Comparison



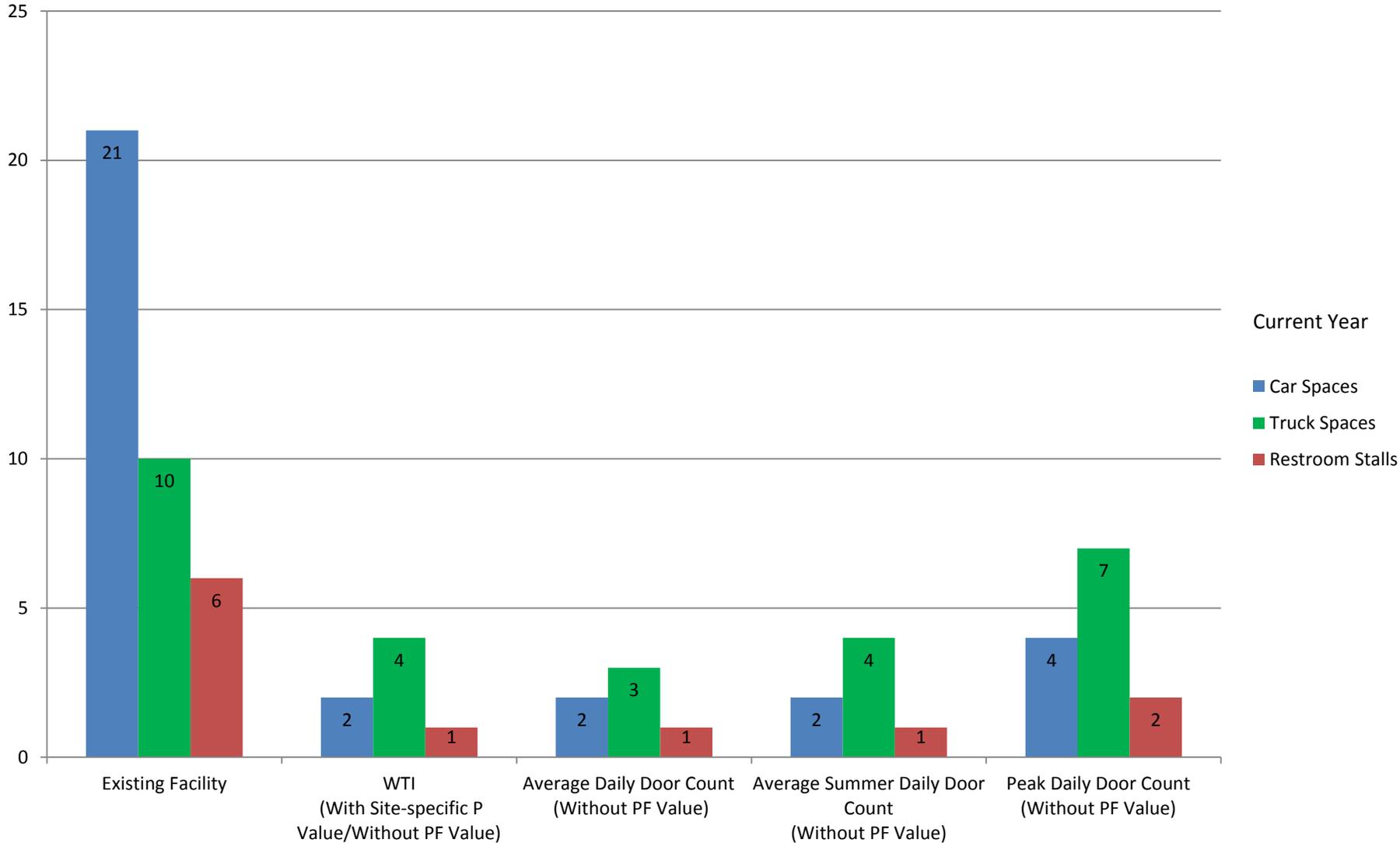
Sweet Grass Rest Area Methodology Comparison



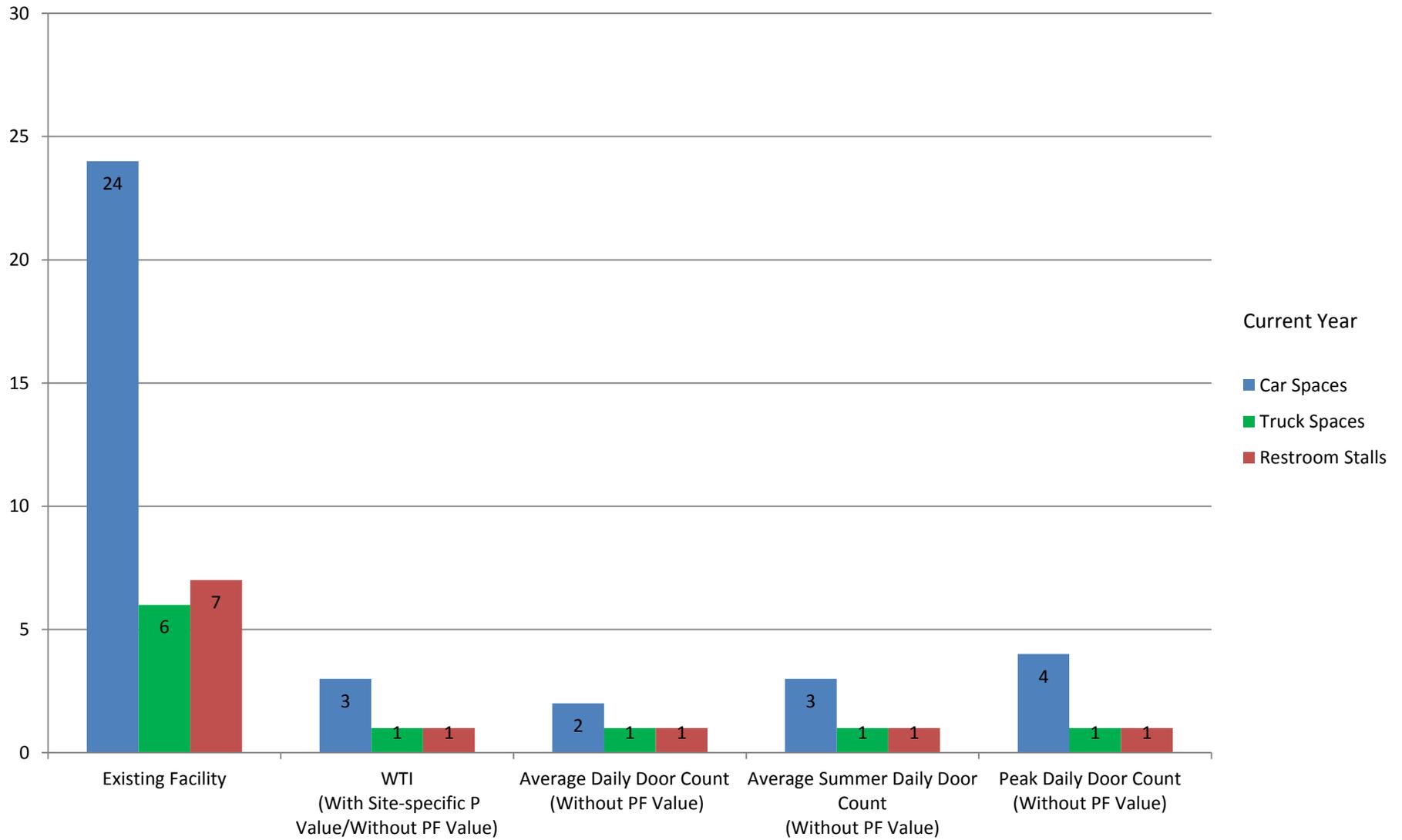
Teton River (North) Rest Area Methodology Comparison



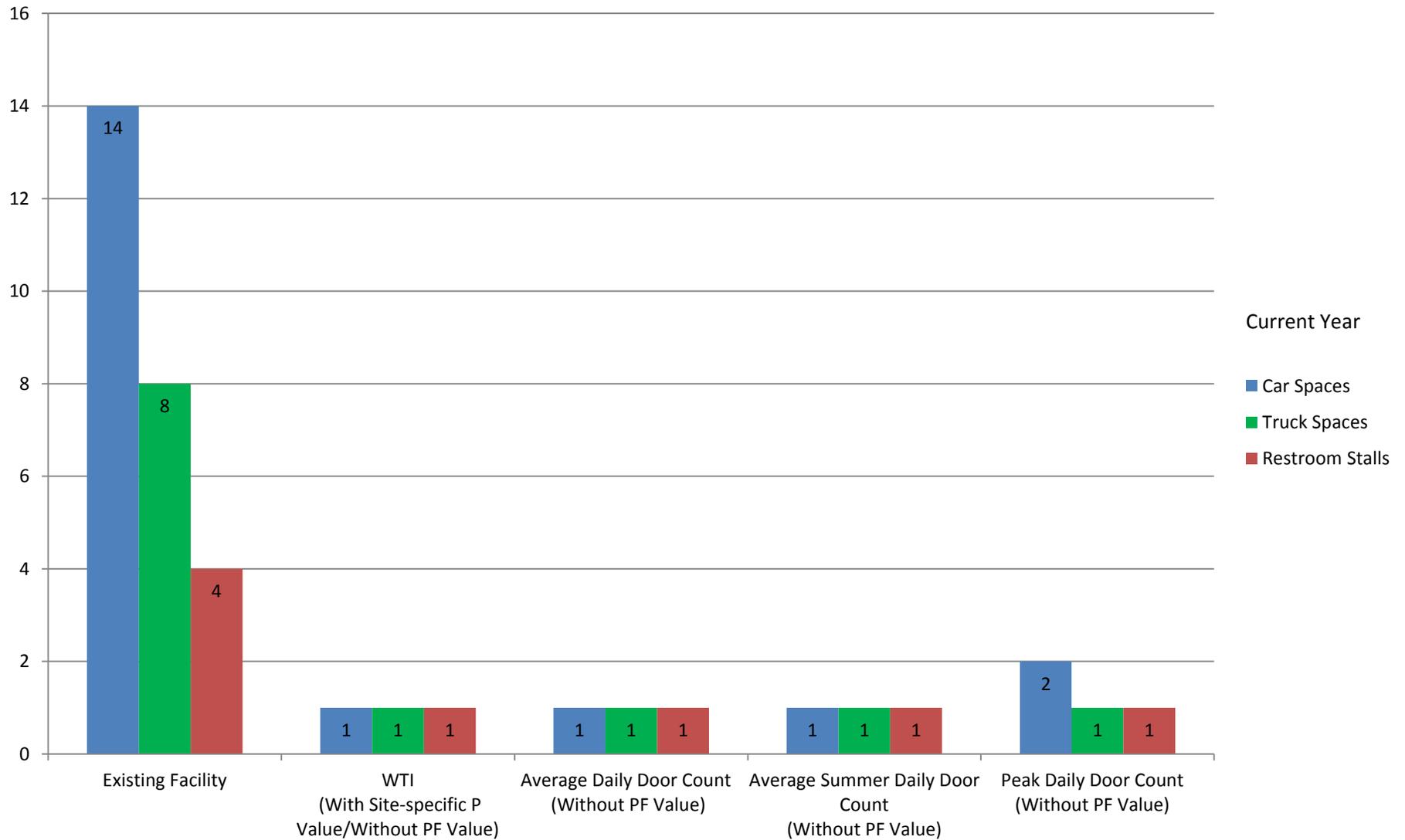
Teton River (South) Rest Area Methodology Comparison



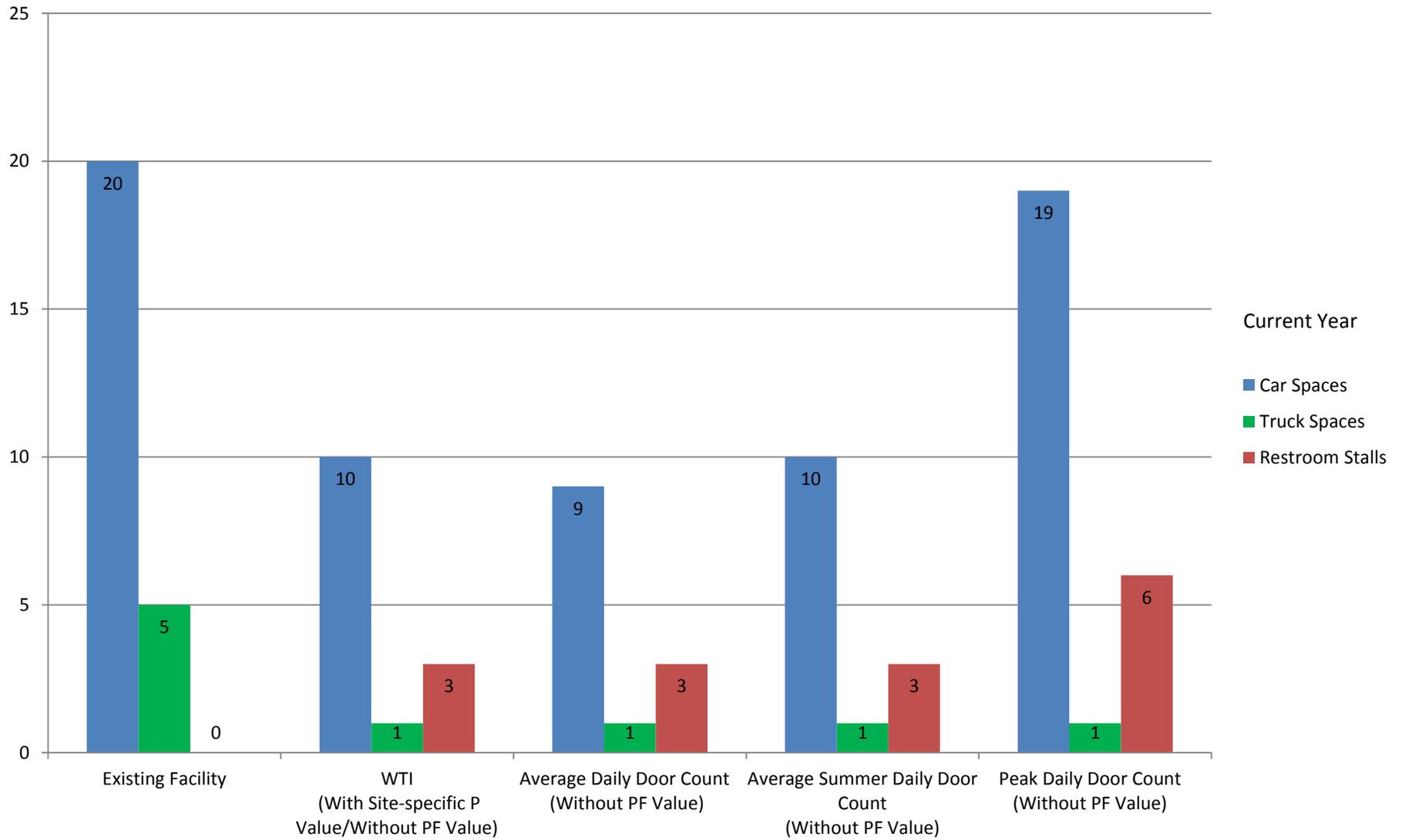
Troy Rest Area Methodology Comparison



Vandalia Rest Area Methodology Comparison



Vista Point Rest Area Methodology Comparison



Attachment 8

WATER CALCULATIONS

Water Source

Facility Name	Water Source Serving Facility	Notes
Anaconda Rest Area	On-Site Well	
Armington Junction Rest Area	On-Site Well	Water source also serves weigh station and MDT shops. Demand calculations do not reflect these facilities.
Bad Route Rest Area	On-Site Well	
Bearmouth (East) Rest Area	On-Site Well	
Bearmouth (West) Rest Area	On-Site Well	
Bozeman Rest Area	Municipal	
Bridger Rest Area	On-Site Well	
Broadus Rest Area	On-Site Well	Water source also serves weigh station. Demand calculations do not reflect this facility.
Clearwater Junction Rest Area	On-Site Well	Water source also serves RV dump station and weigh station. Demand calculations do not reflect these facilities.
Columbus (East) Rest Area	On-Site Well	
Columbus (West) Rest Area	On-Site Well	
Conrad Rest Area	Municipal	
Culbertson Rest Area	Municipal	
Custer (East) Rest Area	On-Site Well	
Custer (West) Rest Area	On-Site Well	
Dearborn (North) Rest Area	On-Site Well	Southbound water is served from well at northbound site.
Dearborn (South) Rest Area	On-Site Well	Southbound water is served from well at northbound site.
Dena Mora (East) Rest Area	On-Site Well	
Dena Mora (West) Rest Area	On-Site Well	
Divide (North) Rest Area	On-Site Well	
Divide (South) Rest Area	On-Site Well	
Emigrant Rest Area	On-Site Well	
Flowing Wells Rest Area	On-Site Well	Also serves a residence owned by MDT. Demand calculations do not reflect this facility.
Gold Creek (East) Rest Area	On-Site Well	
Gold Creek (West) Rest Area	On-Site Well	
Greycliff (East) Rest Area	On-Site Well	New construction 2013.
Greycliff (West) Rest Area	On-Site Well	New construction 2013.
Hardin (East) Rest Area	On-Site Well	
Hardin (West) Rest Area	On-Site Well	
Harlowton Rest Area	Municipal	
Hathaway (East) Rest Area	On-Site Well	
Hathaway (West) Rest Area	On-Site Well	Well pump went out in 2012 and could not be pulled. Drilled a new well in 2013 that has not been put into service yet.
Hysham (East) Rest Area	On-Site Well	
Hysham (West) Rest Area	On-Site Well	
Jefferson City (North) Rest Area	On-Site Well	
Jefferson City (South) Rest Area	On-Site Well	
Lima Rest Area	Municipal	
Lost Trail Pass Rest Area	Spring	
Mosby Rest Area	On-Site Well	
Quartz Flats (East) Rest Area	On-Site Well	
Quartz Flats (West) Rest Area	On-Site Well	
Raynolds Pass Rest Area	On-Site Well	
Roberts Rest Area	On-Site Well	
Sweet Grass Rest Area	Municipal	
Teton River (North) Rest Area	Municipal	
Teton River (South) Rest Area	Municipal	
Troy Rest Area	On-Site Well	
Vandalia Rest Area	On-Site Well	
Vista Point Rest Area	None	No water at this site.

2011 Water Demand Calculations

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons

Fixture Unit Value (Wash-up Sink) = 2.0
 Fixture Unit Value (Water Closet, 1.6 GPF Flushometer Valve) = 5.0
 Fixture Unit Value (Drinking Fountain) = 0.5

Duration of Peak Instantaneous Demand = 7.0 Minutes
 Pressure Tank Drawdown Factor b/w 40 psi and 60 psi = 0.268
 Pressure Tank Volume = 211 Gallons/Tank

Facility Name	Total Vehicles Stopping at Facility During Peak Hour	Peak Daily Domestic Design Flow (gpm)	Calculated Restroom Stalls	Fixture Units ⁽¹⁾	Peak Instantaneous Flow (gpm) ⁽²⁾	R.O. Treatment Unit Water Demand (gpm) ⁽³⁾	Total Water Demand (gpm)		Well Pumping Rate based on Well Log or Other Information (gpm)	DNRC Water Right	Allowable Pumping Rate based on Water Right (gpm)	Source Quantity Adequate?	Existing Total Storage Volume (gallons)	Storage Volume Required to Meet Peak Instantaneous Demand (gallons)	Additional Pressure Tanks Required to Satisfy Peak Instantaneous Demand	Are there existing problems with quantity?	Notes
							Peak Daily + R.O. Demand	Peak Instantaneous + R.O. Demand									
Anaconda Rest Area	81	3	5	34	39	0	3	39	55	76G 30045758	35	Yes	200	97	-1	No	
Armington Junction Rest Area	54	2	3	24	34	0	2	34	23	41Q 86562 00	30	Yes	40	280	2	Yes	
Bad Route Rest Area	44	2	3	24	34	6	8	40	50	Not Found	35	Yes	600	131	-3	No	
Bearmouth (East) Rest Area	82	3	5	34	39	5	8	44	50	76G 30066308	35	Yes	Unknown	230	0	No	New construction 2014.
Bearmouth (West) Rest Area	80	3	4	29	36	6	9	42	50	76G 30066309	35	Yes	Unknown	179	0	No	New construction 2014.
Bozeman Rest Area	173	6	9	54	48	0	6	48	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Bridger Rest Area	123	5	7	44	44	0	5	44	23	43D 163902 00	30	Yes	50	536	3	Yes	
Broadus Rest Area	22	1	2	19	31	0	1	31	35	42J 104953 00	35	Yes	160	-101	-2	No	
Clearwater Junction Rest Area	72	3	4	29	36	0	3	36	62	76F 105239 00	10	Yes	210	685	3	No	
Columbus (East) Rest Area	77	3	4	29	36	0	3	36	37	43QJ 163899 00	25	Yes	50	293	2	No	
Columbus (West) Rest Area	61	2	4	29	36	0	2	36	44	43QJ 163900 00	30	Yes	50	163	1	No	
Conrad Rest Area	27	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Culbertson Rest Area	14	1	1	14	29	0	1	29	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Custer (East) Rest Area	29	1	2	19	31	0	1	31	26	43Q 2163 00	26	Yes	50	134	1	No	
Custer (West) Rest Area	22	1	2	19	31	0	1	31	50	43Q 2162 00	35	Yes	50	-101	-1	No	
Dearborn (North) Rest Area	53	2	4	29	36	0	2	36	8	41QJ 30002830	35	Yes	30	737	4	No	Southbound water is served from well at northbound site.
Dearborn (South) Rest Area	0	0	0	0	0	0	0	0	8	41QJ 30002831	35	Yes	0	-209	-1	No	Southbound water is served from well at northbound site.
Dena Mora (East) Rest Area	98	4	5	34	39	0	4	39	75	Not Found	35	Yes	200	97	-1	No	
Dena Mora (West) Rest Area	89	3	5	34	39	0	3	39	40	Not Found	35	Yes	200	97	-1	No	
Divide (North) Rest Area	45	2	3	24	34	0	2	34	50	Not Found	35	Yes	160	-34	-1	No	
Divide (South) Rest Area	36	1	2	19	31	0	1	31	30	Not Found	35	Yes	160	30	-1	No	
Emigrant Rest Area	34	1	2	19	31	0	1	31	16	43B 72312 00	15	Yes	200	422	2	No	
Flowing Wells Rest Area	36	1	2	19	31	0	1	31	60	40E 80537 00	23	Yes	10	213	1	No	
Gold Creek (East) Rest Area	80	3	4	29	36	0	3	36	Not Found	Not Found	35	Yes	100	32	-1	Yes	
Gold Creek (West) Rest Area	70	3	4	29	36	0	3	36	37	76G 111728 00	22	Yes	100	372	2	Yes	
Greycliff (East) Rest Area	64	2	4	29	36	0	2	36	42	43B 104962 00	35	Yes	Unknown	32	0	No	New construction 2013.
Greycliff (West) Rest Area	65	2	4	29	36	0	2	36	50	43B 163908 00	25	Yes	Unknown	293	0	No	New construction 2013.
Hardin (East) Rest Area	37	1	2	19	31	7	9	39	20	43Q 163864 00	12	Yes	50	693	4	Yes	
Hardin (West) Rest Area	29	1	2	19	31	7	8	39	37	43Q 163863 00	22	Yes	50	432	2	Yes	Site is served by two wells.
Harlowton Rest Area	47	2	3	24	34	0	2	34	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Hathaway (East) Rest Area	31	1	2	19	31	7	9	39	60	42KJ 163870 00	30	Yes	337	223	-1	No	
Hathaway (West) Rest Area	26	1	2	19	31	7	8	39	16	42KJ 75532 00	16	Yes	337	588	2	No	Drilled a new well in 2013 that has not been put into service yet. No well log information is available as of yet for 2013 well.
Hysham (East) Rest Area	35	1	2	19	31	0	1	31	9	42KJ 163868 00	16	Yes	50	579	3	Yes	
Hysham (West) Rest Area	36	1	2	19	31	0	1	31	9	42KJ 163867 00	28	Yes	50	579	3	Yes	
Jefferson City (North) Rest Area	29	1	2	19	31	0	1	31	Not Found	Not Found	35	Yes	50	-101	-1	No	
Jefferson City (South) Rest Area	35	1	2	19	31	0	1	31	35	41I 96195 00	35	Yes	50	-101	-1	No	
Lima Rest Area	89	3	5	34	39	0	3	39	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Lost Trail Pass Rest Area	35	1	2	19	31	0	1	31	N/A	Not Found	35	Yes	200	-101	-2	No	No well. This site is served by a spring. Assume conveyance can deliver 35 gpm.
Mosby Rest Area	43	2	3	24	34	6	8	40	8	Not Found	35	Yes	50	837	4	No	
Quartz Flats (East) Rest Area	123	5	7	44	44	0	5	44	100	76M 30051576	35	Yes	300	222	-1	No	
Quartz Flats (West) Rest Area	119	4	6	39	41	0	4	41	38	Not Found	35	Yes	300	160	-1	No	
Raynolds Pass Rest Area	27	1	2	19	31	0	1	31	25	41F 74939 00	32	Yes	50	161	1	Yes	
Roberts Rest Area	18	1	1	14	29	0	1	29	8	43D 101457 00	8	Yes	40	537	3	Yes	
Sweet Grass Rest Area	39	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.

2011 Water Demand Calculations

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons

Fixture Unit Value (Wash-up Sink) = 2.0
 Fixture Unit Value (Water Closet, 1.6 GPF Flushometer Valve) = 5.0
 Fixture Unit Value (Drinking Fountain) = 0.5

Duration of Peak Instantaneous Demand = 7.0 Minutes
 Pressure Tank Drawdown Factor b/w 40 psi and 60 psi = 0.268
 Pressure Tank Volume = 211 Gallons/Tank

Facility Name	Total Vehicles Stopping at Facility During Peak Hour	Peak Daily Domestic Design Flow (gpm)	Calculated Restroom Stalls	Fixture Units ⁽¹⁾	Peak Instantaneous Flow (gpm) ⁽²⁾	R.O. Treatment Unit Water Demand (gpm) ⁽³⁾	Total Water Demand (gpm)		Well Pumping Rate based on Well Log or Other Information (gpm)	DNRC Water Right	Allowable Pumping Rate based on Water Right (gpm)	Source Quantity Adequate?	Existing Total Storage Volume (gallons)	Storage Volume Required to Meet Peak Instantaneous Demand (gallons)	Additional Pressure Tanks Required to Satisfy Peak Instantaneous Demand	Are there existing problems with quantity?	Notes
							Peak Daily + R.O. Demand	Peak Instantaneous + R.O. Demand									
Teton River (North) Rest Area	17	1	1	14	29	0	1	29	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Teton River (South) Rest Area	24	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Troy Rest Area	20	1	1	14	29	0	1	29	20	76D 75964 00	20	Yes	3	223	2	No	
Vandalia Rest Area	13	0	1	14	29	9	10	38	19	Not Found	35	Yes	10	489	3	Yes	
Vista Point Rest Area	113	4	6	39	41	0	4	41	N/A	N/A	N/A	No	0	1,074	6	Yes	No water at this site.

⁽¹⁾Assume one water closet per restroom stall (Fixture Unit = 5.0), 2 sinks per restroom (Fixture Unit = 2.0), and 2 total drinking fountains (Fixture Unit = 0.5).

⁽²⁾Per Chart A-3, Uniform Plumbing Code, mid-range values. Multiply demand by 1.22 to adjust for 50 psi delivery pressure.

⁽³⁾R.O. demand = peak instantaneous flow * (sink & drinking fountain fixture units/total fixture units) * 0.5

2031 Water Demand Calculations

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons

Fixture Unit Value (Wash-up Sink) = 2.0
 Fixture Unit Value (Water Closet, 1.6 GPF Flushometer Valve) = 5.0
 Fixture Unit Value (Drinking Fountain) = 0.5

Duration of Peak Instantaneous Demand = 7.0 Minutes
 Pressure Tank Drawdown Factor b/w 40 psi and 60 psi = 0.268
 Pressure Tank Volume = 211 Gallons/Tank

Facility Name	Total Vehicles Stopping at Facility During Peak Hour	Peak Daily Domestic Design Flow (gpm)	Calculated Restroom Stalls	Fixture Units ⁽¹⁾	Peak Instantaneous Flow (gpm) ⁽²⁾	R.O. Treatment Unit Water Demand (gpm) ⁽³⁾	Total Water Demand (gpm)		Well Pumping Rate based on Well Log or Other Information (gpm)	DNRC Water Right	Allowable Pumping Rate based on Water Right (gpm)	Source Quantity Adequate?	Existing Total Storage Volume (gallons)	Storage Volume Required to Meet Peak Instantaneous Demand (gallons)	Additional Pressure Tanks Required to Satisfy Peak Instantaneous Demand	Are there existing problems with quantity?	Notes
							Peak Daily + R.O. Demand	Peak Instantaneous + R.O. Demand									
Anaconda Rest Area	105	4	6	39	41	0	4	41	55	76G 30045758	35	Yes	200	160	-1	No	
Armington Junction Rest Area	65	2	4	29	36	0	2	36	23	41Q 86562 00	30	Yes	40	345	2	Yes	
Bad Route Rest Area	71	3	4	29	36	6	8	42	50	Not Found	35	Yes	600	179	-2	No	
Bearmouth (East) Rest Area	105	4	6	39	41	5	9	46	50	76G 30066308	35	Yes	Unknown	284	0	No	New construction 2014.
Bearmouth (West) Rest Area	102	4	6	39	41	5	9	46	50	76G 30066309	35	Yes	Unknown	284	0	No	New construction 2014.
Bozeman Rest Area	293	11	15	84	61	0	11	61	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Bridger Rest Area	159	6	8	49	46	0	6	46	23	43D 163902 00	30	Yes	50	597	3	Yes	
Broadus Rest Area	34	1	2	19	31	0	1	31	35	42J 104953 00	35	Yes	160	-101	-2	No	
Clearwater Junction Rest Area	113	4	6	39	41	0	4	41	62	76F 105239 00	10	Yes	210	813	3	No	
Columbus (East) Rest Area	108	4	6	39	41	0	4	41	37	43QJ 163899 00	25	Yes	50	421	2	No	
Columbus (West) Rest Area	86	3	5	34	39	0	3	39	44	43QJ 163900 00	30	Yes	50	227	1	No	
Conrad Rest Area	37	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Culbertson Rest Area	21	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Custer (East) Rest Area	39	1	2	19	31	0	1	31	26	43Q 2163 00	26	Yes	50	134	1	No	
Custer (West) Rest Area	30	1	2	19	31	0	1	31	50	43Q 2162 00	35	Yes	50	-101	-1	No	
Dearborn (North) Rest Area	64	2	4	29	36	0	2	36	8	41QJ 30002830	35	Yes	30	737	4	No	Southbound water is served from well at northbound site.
Dearborn (South) Rest Area	0	0	0	0	0	0	0	0	8	41QJ 30002831	35	Yes	0	-209	-1	No	Southbound water is served from well at northbound site.
Dena Mora (East) Rest Area	138	5	7	44	44	0	5	44	75	Not Found	35	Yes	200	222	1	No	
Dena Mora (West) Rest Area	126	5	7	44	44	0	5	44	40	Not Found	35	Yes	200	222	1	No	
Divide (North) Rest Area	57	2	3	24	34	0	2	34	50	Not Found	35	Yes	160	-34	-1	No	
Divide (South) Rest Area	45	2	3	24	34	0	2	34	30	Not Found	35	Yes	160	97	-1	No	
Emigrant Rest Area	41	2	3	24	34	0	2	34	16	43B 72312 00	15	Yes	200	489	2	No	
Flowing Wells Rest Area	43	2	3	24	34	0	2	34	60	40E 80537 00	23	Yes	10	280	2	No	
Gold Creek (East) Rest Area	96	4	5	34	39	0	4	39	Not Found	Not Found	35	Yes	100	97	-1	Yes	
Gold Creek (West) Rest Area	85	3	5	34	39	0	3	39	37	76G 111728 00	22	Yes	100	436	2	Yes	
Greycliff (East) Rest Area	77	3	4	29	36	0	3	36	42	43B 104962 00	35	Yes	Unknown	32	0	No	New construction 2013.
Greycliff (West) Rest Area	79	3	4	29	36	0	3	36	50	43B 163908 00	25	Yes	Unknown	293	0	No	New construction 2013.
Hardin (East) Rest Area	47	2	3	24	34	6	8	40	20	43Q 163864 00	12	Yes	50	732	4	Yes	
Hardin (West) Rest Area	37	1	2	19	31	7	9	39	37	43Q 163863 00	22	Yes	50	432	2	Yes	Site is served by two wells.
Harlowton Rest Area	72	3	4	29	36	0	3	36	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Hathaway (East) Rest Area	42	2	3	24	34	6	8	40	60	42KJ 163870 00	30	Yes	337	262	-1	No	
Hathaway (West) Rest Area	36	1	2	19	31	7	9	39	16	42KJ 75532 00	16	Yes	337	588	2	No	Drilled a new well in 2013 that has not been put into service yet. No well log information is available as of yet for 2013 well.
Hysham (East) Rest Area	45	2	3	24	34	0	2	34	9	42KJ 163868 00	16	Yes	50	645	3	Yes	
Hysham (West) Rest Area	47	2	3	24	34	0	2	34	9	42KJ 163867 00	28	Yes	50	645	3	Yes	
Jefferson City (North) Rest Area	36	1	2	19	31	0	1	31	Not Found	Not Found	35	Yes	50	-101	-1	No	
Jefferson City (South) Rest Area	43	2	3	24	34	0	2	34	35	41I 96195 00	35	Yes	50	-34	-1	No	
Lima Rest Area	133	5	7	44	44	0	5	44	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Lost Trail Pass Rest Area	43	2	3	24	34	0	2	34	N/A	Not Found	35	Yes	200	-34	-2	No	No well. This site is served by a spring. Assume conveyance can deliver 35 gpm.
Mosby Rest Area	66	2	4	29	36	6	8	42	8	Not Found	35	No	50	884	4	No	
Quartz Flats (East) Rest Area	166	6	9	54	48	0	6	48	100	76M 30051576	35	Yes	300	344	1	No	
Quartz Flats (West) Rest Area	162	6	9	54	48	0	6	48	38	Not Found	35	Yes	300	344	1	No	
Raynolds Pass Rest Area	39	1	2	19	31	0	1	31	25	41F 74939 00	32	Yes	50	161	1	Yes	
Roberts Rest Area	27	1	2	19	31	0	1	31	8	43D 101457 00	8	Yes	40	605	3	Yes	
Sweet Grass Rest Area	48	2	3	24	34	0	2	34	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.

2031 Water Demand Calculations

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons

Fixture Unit Value (Wash-up Sink) = 2.0
 Fixture Unit Value (Water Closet, 1.6 GPF Flushometer Valve) = 5.0
 Fixture Unit Value (Drinking Fountain) = 0.5

Duration of Peak Instantaneous Demand = 7.0 Minutes
 Pressure Tank Drawdown Factor b/w 40 psi and 60 psi = 0.268
 Pressure Tank Volume = 211 Gallons/Tank

Facility Name	Total Vehicles Stopping at Facility During Peak Hour	Peak Daily Domestic Design Flow (gpm)	Calculated Restroom Stalls	Fixture Units ⁽¹⁾	Peak Instantaneous Flow (gpm) ⁽²⁾	R.O. Treatment Unit Water Demand (gpm) ⁽³⁾	Total Water Demand (gpm)		Well Pumping Rate based on Well Log or Other Information (gpm)	DNRC Water Right	Allowable Pumping Rate based on Water Right (gpm)	Source Quantity Adequate?	Existing Total Storage Volume (gallons)	Storage Volume Required to Meet Peak Instantaneous Demand (gallons)	Additional Pressure Tanks Required to Satisfy Peak Instantaneous Demand	Are there existing problems with quantity?	Notes
							Peak Daily + R.O. Demand	Peak Instantaneous + R.O. Demand									
Teton River (North) Rest Area	21	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Teton River (South) Rest Area	31	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Troy Rest Area	24	1	2	19	31	0	1	31	20	76D 75964 00	20	Yes	3	291	2	No	
Vandalia Rest Area	15	1	1	14	29	9	10	38	19	Not Found	35	Yes	10	489	3	Yes	
Vista Point Rest Area	136	5	7	44	44	0	5	44	N/A	N/A	N/A	No	0	1,137	6	Yes	No water at this site.

⁽¹⁾Assume one water closet per restroom stall (Fixture Unit = 5.0), 2 sinks per restroom (Fixture Unit = 2.0), and 2 total drinking fountains (Fixture Unit = 0.5).

⁽²⁾Per Chart A-3, Uniform Plumbing Code, mid-range values. Multiply demand by 1.22 to adjust for 50 psi delivery pressure.

⁽³⁾R.O. demand = peak instantaneous flow * (sink & drinking fountain fixture units/total fixture units) * 0.5

2051 Water Demand Calculations

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons

Fixture Unit Value (Wash-up Sink) = 2.0
 Fixture Unit Value (Water Closet, 1.6 GPF Flushometer Valve) = 5.0
 Fixture Unit Value (Drinking Fountain) = 0.5

Duration of Peak Instantaneous Demand = 7.0 Minutes
 Pressure Tank Drawdown Factor b/w 40 psi and 60 psi = 0.268
 Pressure Tank Volume = 211 Gallons/Tank

Facility Name	Total Vehicles Stopping at Facility During Peak Hour	Peak Daily Domestic Design Flow (gpm)	Calculated Restroom Stalls	Fixture Units ⁽¹⁾	Peak Instantaneous Flow (gpm) ⁽²⁾	R.O. Treatment Unit Water Demand (gpm) ⁽³⁾	Total Water Demand (gpm)		Well Pumping Rate based on Well Log or Other Information (gpm)	DNRC Water Right	Allowable Pumping Rate based on Water Right (gpm)	Source Quantity Adequate?	Existing Total Storage Volume (gallons)	Storage Volume Required to Meet Peak Instantaneous Demand (gallons)	Additional Pressure Tanks Required to Satisfy Peak Instantaneous Demand	Are there existing problems with quantity?	Notes
							Peak Daily + R.O. Demand	Peak Instantaneous + R.O. Demand									
Anaconda Rest Area	138	5	7	44	44	0	5	44	55	76G 30045758	35	Yes	200	222	1	No	
Armington Junction Rest Area	79	3	4	29	36	0	3	36	23	41Q 86562 00	30	Yes	40	345	2	Yes	
Bad Route Rest Area	118	4	6	39	41	5	9	46	50	Not Found	35	Yes	600	284	-2	No	
Bearmouth (East) Rest Area	134	5	7	44	44	4	9	48	50	76G 30066308	35	Yes	Unknown	339	0	No	New construction 2014.
Bearmouth (West) Rest Area	132	5	7	44	44	4	9	48	50	76G 30066309	35	Yes	Unknown	339	0	No	New construction 2014.
Bozeman Rest Area	507	19	26	139	81	0	19	81	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Bridger Rest Area	205	8	11	64	53	0	8	53	23	43D 163902 00	30	Yes	50	774	4	Yes	
Broadus Rest Area	56	2	3	24	34	0	2	34	35	42J 104953 00	35	Yes	160	-34	-1	No	
Clearwater Junction Rest Area	182	7	10	59	50	0	7	50	62	76F 105239 00	10	Yes	210	1,056	5	No	
Columbus (East) Rest Area	153	6	8	49	46	0	6	46	37	43QJ 163899 00	25	Yes	50	545	3	No	
Columbus (West) Rest Area	122	5	7	44	44	0	5	44	44	43QJ 163900 00	30	Yes	50	353	2	No	
Conrad Rest Area	52	2	3	24	34	0	2	34	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Culbertson Rest Area	32	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Custer (East) Rest Area	52	2	3	24	34	0	2	34	26	43Q 2163 00	26	Yes	50	201	1	No	
Custer (West) Rest Area	40	2	2	19	31	0	2	31	50	43Q 2162 00	35	Yes	50	-101	-1	No	
Dearborn (North) Rest Area	78	3	5	34	39	0	3	39	8	41QJ 30002830	35	Yes	30	802	4	No	Southbound water is served from well at northbound site.
Dearborn (South) Rest Area	0	0	0	0	0	0	0	0	8	41QJ 30002831	35	Yes	0	-209	-1	No	Southbound water is served from well at northbound site.
Dena Mora (East) Rest Area	199	7	10	59	50	0	7	50	75	Not Found	35	Yes	200	403	1	No	
Dena Mora (West) Rest Area	181	7	10	59	50	0	7	50	40	Not Found	35	Yes	200	403	1	No	
Divide (North) Rest Area	73	3	4	29	36	0	3	36	50	Not Found	35	Yes	160	32	-1	No	
Divide (South) Rest Area	57	2	3	24	34	0	2	34	30	Not Found	35	Yes	160	97	-1	No	
Emigrant Rest Area	50	2	3	24	34	0	2	34	16	43B 72312 00	15	Yes	200	489	2	No	
Flowing Wells Rest Area	51	2	3	24	34	0	2	34	60	40E 80537 00	23	Yes	10	280	2	No	
Gold Creek (East) Rest Area	117	4	6	39	41	0	4	41	Not Found	Not Found	35	Yes	100	160	1	Yes	
Gold Creek (West) Rest Area	103	4	6	39	41	0	4	41	37	76G 111728 00	22	Yes	100	500	2	Yes	
Greycliff (East) Rest Area	93	3	5	34	39	0	3	39	42	43B 104962 00	35	Yes	Unknown	97	0	No	New construction 2013.
Greycliff (West) Rest Area	96	4	5	34	39	0	4	39	50	43B 163908 00	25	Yes	Unknown	358	0	No	New construction 2013.
Hardin (East) Rest Area	60	2	3	24	34	6	9	40	20	43Q 163864 00	12	Yes	50	732	4	Yes	
Hardin (West) Rest Area	48	2	3	24	34	6	8	40	37	43Q 163863 00	22	Yes	50	471	2	Yes	Site is served by two wells.
Harlowton Rest Area	110	4	6	39	41	0	4	41	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Hathaway (East) Rest Area	58	2	3	24	34	6	8	40	60	42KJ 163870 00	30	Yes	337	262	-1	No	
Hathaway (West) Rest Area	49	2	3	24	34	6	8	40	16	42KJ 75532 00	16	Yes	337	628	2	No	Drilled a new well in 2013 that has not been put into service yet. No well log information is available as of yet for 2013 well.
Hysham (East) Rest Area	59	2	3	24	34	0	2	34	9	42KJ 163868 00	16	Yes	50	645	3	Yes	
Hysham (West) Rest Area	62	2	4	29	36	0	2	36	9	42KJ 163867 00	28	Yes	50	711	4	Yes	
Jefferson City (North) Rest Area	44	2	3	24	34	0	2	34	Not Found	Not Found	35	Yes	50	-34	-1	No	
Jefferson City (South) Rest Area	53	2	3	24	34	0	2	34	35	41I 96195 00	35	Yes	50	-34	-1	No	
Lima Rest Area	205	8	11	64	53	0	8	53	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Lost Trail Pass Rest Area	52	2	3	24	34	0	2	34	N/A	Not Found	35	Yes	200	-34	-2	No	No well. This site is served by a spring. Assume conveyance can deliver 35 gpm.
Mosby Rest Area	103	4	6	39	41	5	9	46	8	Not Found	35	No	50	989	5	No	
Quartz Flats (East) Rest Area	228	9	12	69	55	0	9	55	100	76M 30051576	35	Yes	300	518	2	No	
Quartz Flats (West) Rest Area	222	8	12	69	55	0	8	55	38	Not Found	35	Yes	300	518	2	No	
Raynolds Pass Rest Area	56	2	3	24	34	0	2	34	25	41F 74939 00	32	Yes	50	227	1	Yes	
Roberts Rest Area	44	2	3	24	34	0	2	34	8	43D 101457 00	8	Yes	40	671	3	Yes	
Sweet Grass Rest Area	58	2	3	24	34	0	2	34	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.

2051 Water Demand Calculations

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons

Fixture Unit Value (Wash-up Sink) = 2.0
 Fixture Unit Value (Water Closet, 1.6 GPF Flushometer Valve) = 5.0
 Fixture Unit Value (Drinking Fountain) = 0.5

Duration of Peak Instantaneous Demand = 7.0 Minutes
 Pressure Tank Drawdown Factor b/w 40 psi and 60 psi = 0.268
 Pressure Tank Volume = 211 Gallons/Tank

Facility Name	Total Vehicles Stopping at Facility During Peak Hour	Peak Daily Domestic Design Flow (gpm)	Calculated Restroom Stalls	Fixture Units ⁽¹⁾	Peak Instantaneous Flow (gpm) ⁽²⁾	R.O. Treatment Unit Water Demand (gpm) ⁽³⁾	Total Water Demand (gpm)		Well Pumping Rate based on Well Log or Other Information (gpm)	DNRC Water Right	Allowable Pumping Rate based on Water Right (gpm)	Source Quantity Adequate?	Existing Total Storage Volume (gallons)	Storage Volume Required to Meet Peak Instantaneous Demand (gallons)	Additional Pressure Tanks Required to Satisfy Peak Instantaneous Demand	Are there existing problems with quantity?	Notes
							Peak Daily + R.O. Demand	Peak Instantaneous + R.O. Demand									
Teton River (North) Rest Area	27	1	2	19	31	0	1	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Teton River (South) Rest Area	40	2	2	19	31	0	2	31	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Municipal System.
Troy Rest Area	30	1	2	19	31	0	1	31	20	76D 75964 00	20	Yes	3	291	2	No	
Vandalia Rest Area	19	1	1	14	29	9	10	38	19	Not Found	35	Yes	10	489	3	Yes	
Vista Point Rest Area	166	6	9	54	48	0	6	48	N/A	N/A	N/A	No	0	1,258	6	Yes	No water at this site.

⁽¹⁾Assume one water closet per restroom stall (Fixture Unit = 5.0), 2 sinks per restroom (Fixture Unit = 2.0), and 2 total drinking fountains (Fixture Unit = 0.5).

⁽²⁾Per Chart A-3, Uniform Plumbing Code, mid-range values. Multiply demand by 1.22 to adjust for 50 psi delivery pressure.

⁽³⁾R.O. demand = peak instantaneous flow * (sink & drinking fountain fixture units/total fixture units) * 0.5

Theoretical Irrigation System Flow Requirements

Combined Overall Irrigation Effectiveness = 65% 3:1 dry:wet ratio 4-day cycles/mo.⁽¹⁾ = 7.75 cycles/mo.
 Days/mo. = 31 days Delivery Period⁽²⁾ = 8 hours

Rest Area	Is the Site Irrigated?	Is the site irrigated with the same water source that serves the facility?	Approximate Measured Irrigated Area (acres)	Climatic Area #	July Net Irrigation Requirement (in./mo.) ⁽³⁾	Area Per Cycle (25% of Total Area) (acres)	Application Per Cycle (in.) ⁽⁴⁾	Daily Volume Required (gallons)	Flow Rate Required (gpm)	Notes
Anaconda Rest Area	Yes	Yes	1.05	5	3.75	0.26	0.74	5,306	11	
Armington Junction Rest Area	Yes	Yes	0.41	3	4.75	0.10	0.94	2,624	5	
Bad Route Rest Area	Yes	No	2.79	1	5.50	0.70	1.09	20,678	43	
Bearmouth (East) Rest Area	Yes	Yes	0.90	5	3.75	0.23	0.74	4,548	9	
Bearmouth (West) Rest Area	Yes	Yes	0.79	5	3.75	0.20	0.74	3,992	8	
Bozeman Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Bridger Rest Area	Yes	No	1.40	1	5.50	0.35	1.09	10,376	22	
Broadus Rest Area	Yes	Yes	0.48	2	5.10	0.12	1.01	3,299	7	
Clearwater Junction Rest Area	Yes	Yes	0.67	5	3.75	0.17	0.74	3,386	7	
Columbus (East) Rest Area	Yes	No	2.27	1	5.50	0.57	1.09	16,824	35	
Columbus (West) Rest Area	Yes	No	0.88	1	5.50	0.22	1.09	6,522	14	
Conrad Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Culbertson Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Custer (East) Rest Area	Yes	Yes	0.24	1	5.50	0.06	1.09	1,779	4	
Custer (West) Rest Area	Yes	Yes	0.22	1	5.50	0.06	1.09	1,630	3	
Dearborn (North) Rest Area	Yes	Yes	1.00	3	4.75	0.25	0.94	6,401	13	Southbound water is served from well at northbound site.
Dearborn (South) Rest Area	Yes	Yes	0.00	3	4.75	0.00	0.94	0	0	Southbound water is served from well at northbound site.
Dena Mora (East) Rest Area	Yes	Yes	1.12	6	3.75	0.28	0.74	5,660	12	
Dena Mora (West) Rest Area	Yes	Yes	0.62	6	3.75	0.16	0.74	3,133	7	
Divide (North) Rest Area	Yes	Yes	0.30	5	3.75	0.08	0.74	1,516	3	
Divide (South) Rest Area	Yes	Yes	0.42	5	3.75	0.11	0.74	2,122	4	
Emigrant Rest Area	Yes	No	1.16	4	4.20	0.29	0.83	6,565	14	
Flowing Wells Rest Area	No	N/A	0.00	2	5.10	0.00	1.01	0	0	
Gold Creek (East) Rest Area	Yes	Yes	0.85	5	3.75	0.21	0.74	4,295	9	
Gold Creek (West) Rest Area	Yes	Yes	0.90	5	3.75	0.23	0.74	4,548	9	
Greycliff (East) Rest Area	Yes	No	0.00	2	5.10	0.00	1.01	0	0	Rest area is not depicted on aerial as it is not constructed yet.
Greycliff (West) Rest Area	Yes	Yes	0.00	2	5.10	0.00	1.01	0	0	Rest area is not depicted on aerial as it is not constructed yet.
Hardin (East) Rest Area	Yes	No	0.53	1	5.50	0.13	1.09	3,928	8	
Hardin (West) Rest Area	Yes	Yes	0.50	1	5.50	0.13	1.09	3,706	8	
Harlowton Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Hathaway (East) Rest Area	Yes	Yes	0.00	1	5.50	0.00	1.09	0	0	Only trees and shrubs are irrigated.
Hathaway (West) Rest Area	Yes	Yes	0.00	1	5.50	0.00	1.09	0	0	Only trees and shrubs are irrigated.
Hysham (East) Rest Area	Yes	No	1.23	1	5.50	0.31	1.09	9,116	19	
Hysham (West) Rest Area	Yes	No	1.14	1	5.50	0.29	1.09	8,449	18	
Jefferson City (North) Rest Area	Yes	Yes	0.52	4	4.20	0.13	0.83	2,943	6	
Jefferson City (South) Rest Area	Yes	Yes	0.51	3	4.75	0.13	0.94	3,264	7	
Lima Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Lost Trail Pass Rest Area	Yes	Yes	1.01	6	3.75	0.25	0.74	5,104	11	

Theoretical Irrigation System Flow Requirements

Combined Overall Irrigation Effectiveness = 65% 3:1 dry:wet ratio 4-day cycles/mo.⁽¹⁾ = 7.75 cycles/mo.
 Days/mo. = 31 days Delivery Period⁽²⁾ = 8 hours

Rest Area	Is the Site Irrigated?	Is the site irrigated with the same water source that serves the facility?	Approximate Measured Irrigated Area (acres)	Climatic Area #	July Net Irrigation Requirement (in./mo.) ⁽³⁾	Area Per Cycle (25% of Total Area) (acres)	Application Per Cycle (in.) ⁽⁴⁾	Daily Volume Required (gallons)	Flow Rate Required (gpm)	Notes
Mosby Rest Area	No	N/A	0.00	1	5.50	0.00	1.09	0	0	Only trees and shrubs are irrigated.
Quartz Flats (East) Rest Area	Yes	Yes	1.10	3	4.75	0.28	0.94	7,041	15	
Quartz Flats (West) Rest Area	Yes	Yes	1.20	3	4.75	0.30	0.94	7,681	16	
Raynolds Pass Rest Area	Yes	Yes	1.02	5	3.75	0.26	0.74	5,154	11	
Roberts Rest Area	Yes	No	1.24	3	4.75	0.31	0.94	7,937	17	
Sweet Grass Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Teton River (North) Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Teton River (South) Rest Area					3.75	0.00	0.74	0	0	Municipal System.
Troy Rest Area	Yes	Yes	0.52	3	4.75	0.13	0.94	3,328	7	
Vandalia Rest Area	No	N/A	0.00	2	5.10	0.00	1.01	0	0	
Vista Point Rest Area	No	N/A	0.00	6	3.75	0.00	0.74	0	0	No water at this site.

⁽¹⁾3-days:1-day drying/wetting ratio. Under this scenario the system would apply water to a given area on Monday and then dry on Tuesday, Wednesday and Thursday and then water again on Friday. At a 3:1 drying/wetting ratio, 25% of the total area must be watered each day. One "cycle" includes one (1) watering day and three (3) drying days. 31 days in July divided by 4 days per cycle; 7.75 cycles/month.

⁽²⁾The assumed delivery period for the required irrigation volume is eight (8) hours per day.

⁽³⁾Refer to graphs from Montana Irrigation Guide (Figure 4.2) for net irrigation by climatic areas/grass.

⁽⁴⁾Includes applied efficiency and uniformity factors.

Water System Operation and Maintenance

Facility Name	Operation and Maintenance Concern(s)	Operation and Maintenance Score
Anaconda Rest Area	UV crystals occasionally become clouded, set off alarms, and shut down water supply. Servicing filtration system every five years requires shut down of rest area for 1 or 2 days.	Fair
Armington Junction Rest Area	When the water pressure is low, the toilets and storage tank keep running. This sets off the alarms.	Fair
Bad Route Rest Area	None	Excellent
Bearmouth (East) Rest Area	New construction 2014.	Excellent
Bearmouth (West) Rest Area	New construction 2014.	Excellent
Bozeman Rest Area	Lavatory faucets and toilet flush valves.	N/A
Bridger Rest Area	None	Excellent
Broadus Rest Area	None	Excellent
Clearwater Junction Rest Area	None	Excellent
Columbus (East) Rest Area	None	Excellent
Columbus (West) Rest Area	None	Excellent
Conrad Rest Area	N/A	N/A
Culbertson Rest Area	None	N/A
Custer (East) Rest Area	None	Excellent
Custer (West) Rest Area	None	Excellent
Dearborn (North) Rest Area	None	Excellent
Dearborn (South) Rest Area	None	Excellent
Dena Mora (East) Rest Area	None	Excellent
Dena Mora (West) Rest Area	None	Excellent
Divide (North) Rest Area	None	Excellent
Divide (South) Rest Area	None	Excellent
Emigrant Rest Area	None	Excellent
Flowing Wells Rest Area	None	Excellent
Gold Creek (East) Rest Area	None	Excellent
Gold Creek (West) Rest Area	None	Excellent
Greycliff (East) Rest Area	New construction 2013.	Excellent
Greycliff (West) Rest Area	New construction 2013.	Excellent
Hardin (East) Rest Area	None	Excellent
Hardin (West) Rest Area	None	Excellent
Harlowton Rest Area	Changes and upgrades of the City water system have caused some minor glitches due to water pressure.	N/A
Hathaway (East) Rest Area	Problems with silt plugging filters.	Fair
Hathaway (West) Rest Area	Problems with silt plugging filters. Well pump went out in 2012 and could not be pulled. Drilled a new well in 2013 that has not been put into service yet.	Fair
Hysham (East) Rest Area	None	Excellent
Hysham (West) Rest Area	None	Excellent
Jefferson City (North) Rest Area	None	Excellent
Jefferson City (South) Rest Area	None	Excellent
Lima Rest Area	None	N/A
Lost Trail Pass Rest Area	Occasionally have issues with the water sequence valves.	Good
Mosby Rest Area	None	Excellent
Quartz Flats (East) Rest Area	None	Excellent
Quartz Flats (West) Rest Area	None	Excellent
Raynolds Pass Rest Area	Sand in the plumbing (toilet valves).	Good
Roberts Rest Area	None	Excellent
Sweet Grass Rest Area	N/A	N/A
Teton River (North) Rest Area	None	N/A
Teton River (South) Rest Area	None	N/A
Troy Rest Area	None	Excellent
Vandalia Rest Area	They see some sand in the water late spring when they first turn the system on.	Good
Vista Point Rest Area	Site does not have domestic water system.	Poor

Backflow Prevention

Facility Name	Is backflow prevention included on irrigation system line?
Anaconda Rest Area	Yes
Armington Junction Rest Area	Yes
Bad Route Rest Area	Yes
Bearmouth (East) Rest Area	Yes
Bearmouth (West) Rest Area	Yes
Bozeman Rest Area	No
Bridger Rest Area	Yes
Broadus Rest Area	Yes
Clearwater Junction Rest Area	Yes
Columbus (East) Rest Area	Yes
Columbus (West) Rest Area	Yes
Conrad Rest Area	Yes
Culbertson Rest Area	Yes
Custer (East) Rest Area	Yes
Custer (West) Rest Area	Yes
Dearborn (North) Rest Area	Yes
Dearborn (South) Rest Area	Yes
Dena Mora (East) Rest Area	Yes
Dena Mora (West) Rest Area	Yes
Divide (North) Rest Area	Yes
Divide (South) Rest Area	Yes
Emigrant Rest Area	Yes
Flowing Wells Rest Area	
Gold Creek (East) Rest Area	No
Gold Creek (West) Rest Area	No
Greycliff (East) Rest Area	Yes
Greycliff (West) Rest Area	Yes
Hardin (East) Rest Area	Yes
Hardin (West) Rest Area	Yes
Harlowton Rest Area	Yes
Hathaway (East) Rest Area	Yes
Hathaway (West) Rest Area	Yes
Hysham (East) Rest Area	Yes
Hysham (West) Rest Area	Yes
Jefferson City (North) Rest Area	Yes
Jefferson City (South) Rest Area	Yes
Lima Rest Area	Yes
Lost Trail Pass Rest Area	Yes
Mosby Rest Area	Yes
Quartz Flats (East) Rest Area	Yes
Quartz Flats (West) Rest Area	Yes
Raynolds Pass Rest Area	No
Roberts Rest Area	No
Sweet Grass Rest Area	Yes
Teton River (North) Rest Area	Yes
Teton River (South) Rest Area	Yes
Troy Rest Area	Yes
Vandalia Rest Area	No
Vista Point Rest Area	No

Water Quality

Rest Area	Static Water Level (ft.)	Unperforated Casing Depth (ft.)	Disinfection Required due to Well Construction Details?	Treatment			Disinfection		# of MCL Violations for Total Coliform/Nitrates within the Past Five Years	Are there existing problems with quality (i.e. failed tests)?	Source Quality (Transient Non-Community) Score	Primary & Secondary Contaminants exceeding MCL	Notes
				Y/N	Contaminant	Method	Y/N	Method					
Anaconda Rest Area	15.0	161.0	Yes	Yes	Iron	Pressure Filter	Yes	UV	0	No	Good	None	
Armington Junction Rest Area	295.0	355.0	No	No	-	-	No	-	2	Yes	Fair	No Test Results	
Bad Route Rest Area	-69.3	919.0	No	Yes	-	RO	Yes	Chlorine	1	No	Fair	pH, Iron	Artesian Well
Bearmouth (East) Rest Area	7.0	42.0	Yes	Yes	-	RO	No	-	0	No	Excellent	TDS, Sulfate	New construction 2014.
Bearmouth (West) Rest Area	10.0	49.0	Yes	No	-	RO	No	-	1	No	Excellent	None	New construction 2014.
Bozeman Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Bridger Rest Area	20.0	42.0	Yes	No	-	-	No	-	1	No	Fair	TDS	
Broadus Rest Area	56.0	920.0	No	No	-	-	No	-	0	No	Excellent	pH, TDS, Sulfate	
Clearwater Junction Rest Area	24.0	35.0	Yes	Yes	-	Filtration	Yes	Chlorine	0	No	Good	None	
Columbus (East) Rest Area	138.0	187.0	No	No	-	-	No	-	5	No	Fair	TDS, Sulfate	No violations since wells were scrubbed and disinfected.
Columbus (West) Rest Area	150.0	209.0	No	No	-	-	No	-	3	No	Fair	TDS	No violations since wells were scrubbed and disinfected.
Conrad Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Culbertson Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Custer (East) Rest Area	150.0	258.0	No	No	-	-	No	-	0	No	Excellent	TDS, Sulfate	
Custer (West) Rest Area	135.0	404.0	No	No	-	-	No	-	0	No	Excellent	pH, TDS, Sulfate	
Dearborn (North) Rest Area	-	30.5	No	No	-	-	No	-	0	No	Excellent	No Test Results	
Dearborn (South) Rest Area	-	30.5	No	No	-	-	No	-	0	No	Excellent	No Test Results	
Dena Mora (East) Rest Area	6.5	29.0	Yes	No	-	Sediment Filter	No	-	1	No	Fair	None	
Dena Mora (West) Rest Area	2.2	29.5	Yes	No	-	Sediment Filter	No	-	0	No	Good	None	
Divide (North) Rest Area	166.0	0.0	Yes	Yes	-	Filtration	No	-	0	No	Good	No Test Results	
Divide (South) Rest Area	136.0	267.0	No	Yes	-	Filtration	No	-	0	No	Excellent	Iron, Lead	
Emigrant Rest Area	7.0	73.0	Yes	No	-	-	No	-	1	No	Fair	None	
Flowing Wells Rest Area	0.0	112.0	No	Yes	-	Filtration	Yes	Chlorine	0	No	Good	pH, TDS, Sulfate	Artesian well.
Gold Creek (East) Rest Area	-	-	No	Yes	-	Filtration	No	-	0	No	Good	None	Static water level is thought to be high.
Gold Creek (West) Rest Area	5.3	43.6	Yes	Yes	-	Filtration	No	-	1	No	Fair	None	
Greycliff (East) Rest Area	57.0	93.4	No	No	-	-	No	-	N/A	No	Excellent	None	New construction 2013.
Greycliff (West) Rest Area	32.5	42.8	No	No	-	-	No	-	N/A	No	Excellent	None	New construction 2013.
Hardin (East) Rest Area	27.0	28.0	No	Yes	Nitrates	RO	Yes	Chlorine	3	No	Good	pH	RO system has eliminated high nitrate problem.
Hardin (West) Rest Area	50.0	75.0	No	Yes	Nitrates	RO	Yes	Chlorine	0	No	Good	pH	RO system has eliminated high nitrate problem.
Harlowton Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Hathaway (East) Rest Area	60.0	235.0	No	Yes	-	RO	Yes	Chlorine	1	No	Fair	None	
Hathaway (West) Rest Area	180.0	450.0	No	Yes	-	RO	Yes	Chlorine	0	No	Good	None	No well information is available for 2013 well.
Hysham (East) Rest Area	46.9	28.0	No	No	-	-	No	-	0	No	Excellent	TDS, Sulfate, Iron	
Hysham (West) Rest Area	65.0	63.0	No	No	-	-	No	-	0	No	Excellent	TDS, Iron	
Jefferson City (North) Rest Area	-	-	No	No	-	-	No	-	0	No	Good	Iron, Lead	
Jefferson City (South) Rest Area	40.0	120.0	No	No	-	-	No	-	0	No	Excellent	None	
Lima Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Lost Trail Pass Rest Area	-	-	No	Yes	-	-	Yes	Chlorine	0	No	Fair	None	MPA testing revealed nematodes in water during spring runoff.
Mosby Rest Area	-2.0	1650.0	No	Yes	-	RO	No	-	0	No	Good	pH, TDS, Sulfate	Artesian Well
Quartz Flats (East) Rest Area	109.0	196.0	No	Yes	-	12 5-Micron Filters	Yes	Chlorine	1	No	Fair	None	
Quartz Flats (West) Rest Area	70.0	151.5	No	Yes	-	12 5-Micron Filters	Yes	Chlorine	1	No	Fair	None	
Raynolds Pass Rest Area	35.0	150.0	No	No	-	-	Yes	Chlorine	0	No	Good	Arsenic, Fluoride	
Roberts Rest Area	8.0	78.0	Yes	No	-	-	No	-	0	No	Good	None	
Sweet Grass Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Teton River (North) Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Teton River (South) Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	Municipal System
Troy Rest Area	131.0	141.0	No	Yes	-	Filtration and Softening	No	-	0	No	Excellent	None	
Vandalia Rest Area	37.0	56.0	No	Yes	-	RO	Yes	Chlorine	0	No	Good	None	
Vista Point Rest Area	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	No	Poor	N/A	Site does not have water.

Labs Results

Facility Name	Coliform, Total	Coliform, E-Coli	pH	Co0uctivity @25C	Solids, TDS @180C	Alkalinity, Total CaCO3	Chloride	Sulfate	Nitrate as N	Nitrate+ Nitrite as N	Nitrite as N	Arsenic	Calcium	Iron	Lead	Magnesium	Potassium	Sodium
	P/A	P/A	s.u.	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Bad Route Rest Area	Absent	Absent	8.8	60	33	17	5	1		0.02		0	0	0.38	0.004	0	0	12
Bearmouth (East) Rest Area	Absent	Absent	7.3	945	678	170	9	340	0.46	0.46	0	0.005	103	0	0	34	13	44
Bearmouth (West) Rest Area	Absent	Absent	7.5	486	320	170	7	60	0.11	0.11	0	0.005	0	0	0	0	1	111
Bridger Rest Area	Absent	Absent	7.3	1,300	793	434	1	24		2.15		0	95	0.09	0	36	3	147
Broadus Rest Area	Absent	Absent	8.8	1,170	674	288	8	273		0		0	1	0.05	0	0	0	267
Clearwater Junction Rest Area	Absent	NA	7.0	153	83	69	5	1	0.04	0.04	0	0	21	0	0	6	0	4
Columbus (East) Rest Area	Absent	Absent	7.4	1,460	950	431	19	375		0.77		0	78	0	0	52	3	191
Columbus (West) Rest Area	Absent	Absent	7.6	1,240	748	492	18	191		0		0	34	0.22	0	24	2	227
Custer (East) Rest Area	Absent	Absent	8.4	2,480	1,640	383	19	801		0		0	6	0.04	0	2	1	577
Custer (West) Rest Area	Absent	Absent	8.6	1,920	1,240	371	23	506		0		0	2	0.03	0	0	0	442
Dena Mora (East) Rest Area	Absent	NA	6.8	89	47	37	4	0	0.06	0.05	0	0	11	0	0	3	0	3
Dena Mora (West) Rest Area	Absent	NA	7.0	159	87	50	17	1	0.06	0.04	0	0.002	13	0.04	0	5	0	11
Divide (South) Rest Area			6.8	306	187	110	4	29		0.2		0.003	63	2.29	0.035	13	5	65
Emigrant Rest Area	Absent	Absent	7.9	242	169	120	2	8		0.13		0.007	19	0.06	0	6	5	24
Flowing Wells Rest Area	Absent	Absent	8.6	2,230	1,430	519	30	561		0.01		0	4	0.19	0.001	2	2	522
Gold Creek (East) Rest Area	Absent	Absent	7.2	592	383	230	9	76	0.01	0.01	0	0.002	83	0.06	0	15	3	19
Gold Creek (West) Rest Area	Absent	Absent	7.4	448	281	220	3	22	0	0	0	0.002	61	0	0	15	2	9
Greycliff (East) Rest Area	Absent	Absent	7.6	428	250	189	8	37		0.83		0.002	50	0	0	12	0	23
Greycliff (West) Rest Area	Absent	Absent	7.5	412	227	149	11	29		1.69		0.008	44	0	0	11	3	26
Hardin (East) Rest Area	Absent	Absent	6.1	46	0	9	3	5		0.23		0	0	0	0.001	0	0	7
Hardin (West) Rest Area	Absent	aa	5.9	57	0	8	5	5		0.94		0	0	0	0	0	0	10
Hathaway (East) Rest Area			7.5	156	95	38	19	2		0.01		0	0	0	0.001	0	0	35
Hathaway (West) Rest Area			7.8	155	86	56	16	0		0.02		0	0	0	0.003	0	0	35
Hysham (East) Rest Area	Absent	Absent	7.2	1,790	1,230	426	15	534		0.04		0	1.04	0.49	0	61	4	246
Hysham (West) Rest Area	Absent	Absent	7.3	1,570	1,050	393	12	132		0		0	83	1.04	0	44	4	238
Jefferson City (North) Rest Area	Absent	Absent	6.8	323	211	54	4	87		0.36		0.003	38	1.27	0.023	8	2	9
Jefferson City (South) Rest Area	Absent	Absent	7.3	712	421	330	5	50		0		0.002	59	0.16	0	23	3	61
Lost Trail Pass Rest Area	Absent	Absent	7.1	37	23	20	0	0	0.09	0.09	0	0	4	0	0	0	0	2
Mosby Rest Area	Absent	Absent	8.6	1,580	1,010	415	27	321		0		0	2	0.12	0.009	0	1	340
Quartz Flats (East) Rest Area	Absent	Absent	7.9	268	154	130	2	9	0.13	0.13	0	0.001	34	0	0	10	1	6
Quartz Flats (West) Rest Area	Absent	Absent	7.9	271	151	140	1	7	0.15	0.15	0	0.002	35	0	0	11	1	3
Roberts Rest Area			7.6	601	303	320	5	18		0.05		0	67	0.12	0	27	3	24
Troy Rest Area	Absent	Absent	7.6	519	308	13	7	1	0.56	0	0	0	0	0	0	0	0	111
Vandalia Rest Area	Absent	Absent	6.8	109	84	34	2	11		0.25		0	1	0	0.002	0	0	22

Water System Remaining Service Life

Facility Name	Year of Water System Construction	Year of Water System Rehabilitation or Replacement	Remaining Service Life
Anaconda Rest Area	2008	-	14
Armington Junction Rest Area	1992	2011	17
Bad Route Rest Area	1973	1983	-11
Bearmouth (East) Rest Area	2014	-	20
Bearmouth (West) Rest Area	2014	-	20
Bozeman Rest Area	2000	-	N/A
Bridger Rest Area	1967	2013	19
Broadus Rest Area	1997	-	3
Clearwater Junction Rest Area	1997	-	3
Columbus (East) Rest Area	1970	2012	18
Columbus (West) Rest Area	1970	2012	18
Conrad Rest Area	-	-	N/A
Culbertson Rest Area	-	-	N/A
Custer (East) Rest Area	-	-	-1994
Custer (West) Rest Area	1975	-	-19
Dearborn (North) Rest Area	2002	2010	16
Dearborn (South) Rest Area	2002	2010	16
Dena Mora (East) Rest Area	2003	-	9
Dena Mora (West) Rest Area	2003	-	9
Divide (North) Rest Area	-	-	-1994
Divide (South) Rest Area	-	-	-1994
Emigrant Rest Area	1987	-	-7
Flowing Wells Rest Area	1960	2005	11
Gold Creek (East) Rest Area	-	-	-1994
Gold Creek (West) Rest Area	-	-	-1994
Greycliff (East) Rest Area	2013	-	19
Greycliff (West) Rest Area	2013	-	19
Hardin (East) Rest Area	1974	2011	17
Hardin (West) Rest Area	1974	2011	17
Harlowton Rest Area	2011	-	N/A
Hathaway (East) Rest Area	1972	1997	3
Hathaway (West) Rest Area	1972	2013	19
Hysham (East) Rest Area	1967	-	-27
Hysham (West) Rest Area	1967	-	-27
Jefferson City (North) Rest Area	1973	-	-21
Jefferson City (South) Rest Area	1973	-	-21
Lima Rest Area	-	-	N/A
Lost Trail Pass Rest Area	2001	-	7
Mosby Rest Area	2005	-	11
Quartz Flats (East) Rest Area	1988	2011	17
Quartz Flats (West) Rest Area	1988	-	-6
Raynolds Pass Rest Area	-	-	-1994
Roberts Rest Area	1968	-	-26
Sweet Grass Rest Area	-	-	N/A
Teton River (North) Rest Area	1988	2013	N/A
Teton River (South) Rest Area	1988	2013	N/A
Troy Rest Area	1990	-	-4
Vandalia Rest Area	1966	1995	1
Vista Point Rest Area	-	-	-1994

Water System Summary

	Rest Area Name	Water						Remaining Service Life
		Municipal System (Y/N)	Source Capability to Meet Peak Daily Demand	Storage Capability to Meet Peak Instantaneous Demand	Operation & Maintenance	Backflow Prevention	Source Quality (Transient Non-Community)	
1	Anaconda Rest Area	No	Excellent	Fair	Fair	Excellent	Good	Good
2	Armington Junction Rest Area	No	Poor	Fair	Fair	Excellent	Fair	Excellent
3	Bad Route Rest Area	No	Excellent	Excellent	Excellent	Excellent	Fair	Poor
4	Bearmouth (East) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
5	Bearmouth (West) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
6	Bozeman Rest Area	Yes	-	-	-	-	-	-
7	Bridger Rest Area	No	Poor	Fair	Excellent	Excellent	Fair	Excellent
8	Broadus Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
9	Clearwater Junction Rest Area	No	Excellent	Fair	Excellent	Excellent	Good	Poor
10	Columbus (East) Rest Area	No	Excellent	Fair	Excellent	Excellent	Fair	Excellent
11	Columbus (West) Rest Area	No	Excellent	Fair	Excellent	Excellent	Fair	Excellent
12	Conrad Rest Area	Yes	-	-	-	-	-	-
13	Culbertson Rest Area	Yes	-	-	-	-	-	-
14	Custer (East) Rest Area	No	Excellent	Fair	Excellent	Excellent	Excellent	Poor
15	Custer (West) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
16	Dearborn (North) Rest Area	No	Excellent	Fair	Excellent	Excellent	Excellent	Excellent
17	Dearborn (South) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
18	Dena Mora (East) Rest Area	No	Excellent	Good	Excellent	Excellent	Fair	Fair
19	Dena Mora (West) Rest Area	No	Excellent	Good	Excellent	Excellent	Good	Fair
20	Divide (North) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Good	Poor
21	Divide (South) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
22	Emigrant Rest Area	No	Excellent	Fair	Excellent	Excellent	Fair	Poor
23	Flowing Wells Rest Area	No	Excellent	Fair	Excellent	Excellent	Good	Good
24	Gold Creek (East) Rest Area	No	Poor	Fair	Excellent	Poor	Good	Poor
25	Gold Creek (West) Rest Area	No	Poor	Fair	Excellent	Poor	Fair	Poor
26	Greycliff (East) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
27	Greycliff (West) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
28	Hardin (East) Rest Area	No	Poor	Fair	Excellent	Excellent	Good	Excellent
29	Hardin (West) Rest Area	No	Poor	Fair	Excellent	Excellent	Good	Excellent
30	Harlowton Rest Area	Yes	-	-	-	-	-	-
31	Hathaway (East) Rest Area	No	Excellent	Excellent	Fair	Excellent	Fair	Poor
32	Hathaway (West) Rest Area	No	Excellent	Fair	Fair	Excellent	Good	Excellent
33	Hysham (East) Rest Area	No	Poor	Fair	Excellent	Excellent	Excellent	Poor
34	Hysham (West) Rest Area	No	Poor	Fair	Excellent	Excellent	Excellent	Poor
35	Jefferson City (North) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Good	Poor
36	Jefferson City (South) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent	Poor
37	Lima Rest Area	Yes	-	-	-	-	-	-
38	Lost Trail Pass Rest Area	No	Excellent	Excellent	Good	Excellent	Fair	Fair
39	Mosby Rest Area	No	Good	Fair	Excellent	Excellent	Good	Good
40	Quartz Flats (East) Rest Area	No	Excellent	Good	Excellent	Excellent	Fair	Excellent
41	Quartz Flats (West) Rest Area	No	Excellent	Good	Excellent	Excellent	Fair	Poor
42	Raynolds Pass Rest Area	No	Poor	Fair	Good	Poor	Good	Poor
43	Roberts Rest Area	No	Poor	Fair	Excellent	Excellent	Good	Poor
44	Sweet Grass Rest Area	Yes	-	-	-	-	-	-
45	Teton River (North) Rest Area	Yes	-	-	-	-	-	-
46	Teton River (South) Rest Area	Yes	-	-	-	-	-	-
47	Troy Rest Area	No	Excellent	Fair	Excellent	Excellent	Excellent	Poor
48	Vandalia Rest Area	No	Poor	Fair	Good	Excellent	Good	Poor
49	Vista Point Rest Area	No	Poor	Poor	Poor	Poor	Poor	Poor

Attachment 9

WASTEWATER CALCULATIONS

Wastewater Treatment System

Facility Name	Wastewater Treatment System	Notes
Anaconda Rest Area	On-Site Advanced System	
Armington Junction Rest Area	On-Site Septic Drainfield, Dosed	Treatment system also serves weigh station and MDT shops. Demand calculations do not reflect these facilities.
Bad Route Rest Area	On-Site Septic Drainfield, Gravity	
Bearmouth (East) Rest Area	On-Site Advanced System	New construction 2014.
Bearmouth (West) Rest Area	On-Site Advanced System	New construction 2014.
Bozeman Rest Area	Municipal	
Bridger Rest Area	On-Site Septic Drainfield, Gravity	
Broadus Rest Area	On-Site Septic Drainfield, Dosed	
Clearwater Junction Rest Area	On-Site Septic Drainfield, Dosed	
Columbus (East) Rest Area	On-Site Septic Drainfield, Gravity	
Columbus (West) Rest Area	On-Site Septic Drainfield, Dosed	
Conrad Rest Area	Municipal	
Culbertson Rest Area	Municipal	
Custer (East) Rest Area	On-Site Septic Drainfield, Gravity	
Custer (West) Rest Area	On-Site Septic Drainfield, Gravity	
Dearborn (North) Rest Area	On-Site Advanced System	Southbound wastewater is treated at northbound site.
Dearborn (South) Rest Area	On-Site Advanced System	Southbound wastewater is treated at northbound site.
Dena Mora (East) Rest Area	On-Site Advanced System	Eastbound wastewater is treated at westbound site.
Dena Mora (West) Rest Area	On-Site Advanced System	Eastbound wastewater is treated at westbound site.
Divide (North) Rest Area	On-Site Septic Drainfield, Gravity	
Divide (South) Rest Area	On-Site Septic Drainfield, Gravity	
Emigrant Rest Area	On-Site Septic Drainfield, Gravity	
Flowing Wells Rest Area	On-Site Septic Drainfield, Gravity	
Gold Creek (East) Rest Area	On-Site Septic Drainfield, Dosed	
Gold Creek (West) Rest Area	On-Site Septic Drainfield, Gravity	
Greycliff (East) Rest Area	On-Site Advanced System	New construction 2013.
Greycliff (West) Rest Area	On-Site Advanced System	New construction 2013.
Hardin (East) Rest Area	On-Site Septic Drainfield, Gravity	
Hardin (West) Rest Area	On-Site Septic Drainfield, Gravity	
Harlowton Rest Area	Municipal	
Hathaway (East) Rest Area	On-Site Septic Drainfield, Dosed	
Hathaway (West) Rest Area	On-Site Septic Drainfield, Dosed	
Hysham (East) Rest Area	On-Site Septic Drainfield, Dosed	
Hysham (West) Rest Area	On-Site Septic Drainfield, Dosed	
Jefferson City (North) Rest Area	On-Site Septic Drainfield, Gravity	
Jefferson City (South) Rest Area	On-Site Septic Drainfield, Gravity	
Lima Rest Area	On-Site Advanced System	
Lost Trail Pass Rest Area	On-Site Septic Drainfield, Dosed	
Mosby Rest Area	On-Site Septic Drainfield, Dosed	
Quartz Flats (East) Rest Area	On-Site Septic Drainfield, Gravity	
Quartz Flats (West) Rest Area	On-Site Septic Drainfield, Gravity	
Raynolds Pass Rest Area	Other	Seepage pit.
Roberts Rest Area	On-Site Septic Drainfield, Gravity	
Sweet Grass Rest Area	Municipal	
Teton River (North) Rest Area	On-Site Septic Drainfield, Gravity	
Teton River (South) Rest Area	On-Site Septic Drainfield, Gravity	
Troy Rest Area	On-Site Septic Drainfield, Dosed	
Vandalia Rest Area	On-Site Septic Drainfield, Dosed	
Vista Point Rest Area	Other	Site has vaulted toilets.

2011 Wastewater System Design Flow Requirements

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons
 Water Usage Per Restroom User (just sinks and drinking fountains) = 0.5 Gallons

Facility Name	Peak Daily People, PDP	Average Annual Daily Traffic, AADT	Proportion of Mainline Traffic Stopping at Rest Area, P	Average Daily Domestic Design Flow (gpd)	R.O. Treatment Unit Reject Water (gpd)	Total Wastewater System Design Flow (gpd)	Is a Discharge Permit Required?	NRCS Soil Map Unit Name	Application Rate (gpd/ft ²) ⁽¹⁾	Drainfield Size (ft ²) ⁽²⁾	# of Laterals ⁽³⁾	Total Footprint of Drainfield ⁽⁴⁾		Notes
												ft ²	acres	
Anaconda Rest Area	1,675	9,040	0.07	2,513	0	2,513	No	Cetrack Loam	0.50	2,513	9	5,900	0.14	
Armington Junction Rest Area	1,032	2,600	0.16	1,548	0	1,548	No	Rivra Gravelly Sandy Loam	0.80	968	4	2,400	0.06	
Bad Route Rest Area	987	4,280	0.11	1,481	259	1,740	No	Lonna Silt Loam	0.50	1,740	6	3,800	0.09	
Bearmouth (East) Rest Area	1,649	4,055	0.16	2,474	433	2,906	No	Mccabe-Canarway Complex	0.80	1,816	7	4,500	0.10	
Bearmouth (West) Rest Area	1,582	4,055	0.15	2,372	415	2,787	No	Mccabe-Canarway Complex	0.80	1,742	6	3,800	0.09	
Bozeman Rest Area	3,868	20,400	0.04	5,801	0	5,801	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Bridger Rest Area	0	5,610	0.25	3,156	0	3,156	No	Haverson-Heldt Silty Clay Loam	0.30	5,259	18	12,200	0.28	
Broadus Rest Area	437	2,080	0.08	656	0	656	No	Vona-Remmit Fine Sandy Loam	0.50	656	3	1,700	0.04	
Clearwater Junction Rest Area	1,321	2,580	0.19	1,981	0	1,981	No	Perma Gravelly Loam	0.60	1,651	6	3,800	0.09	
Columbus (East) Rest Area	1,598	4,930	0.11	2,397	0	2,397	No	Lambeth-Yawdim Complex	0.50	2,397	8	5,200	0.12	
Columbus (West) Rest Area	1,254	4,930	0.08	1,880	0	1,880	No	Lambeth-Yawdim Complex	0.50	1,880	7	4,500	0.10	
Conrad Rest Area	602	3,630	0.04	903	0	903	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Culbertson Rest Area	274	2,500	0.03	411	0	411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Custer (East) Rest Area	667	4,450	0.12	1,000	0	1,000	No	Blacksheep, Dry-Cabbart, Dry-Rock Outcrop Complex	0.50	1,000	4	2,400	0.06	
Custer (West) Rest Area	486	4,450	0.10	729	0	729	No	Yegen Sandy Loam	0.60	608	3	1,700	0.04	
Dearborn (North) Rest Area	1,069	3,440	0.14	1,603	0	1,603	No	Chinook Sandy Loam	0.60	1,336	5	3,100	0.07	Southbound wastewater is treated at northbound site.
Dearborn (South) Rest Area	0	0	0.12	0	0	0	No	Chinook Sandy Loam	0.60	0	0	0	0.00	Southbound wastewater is treated at northbound site.
Dena Mora (East) Rest Area	0	0	0.27	0	0	0	No	Not Completed	0.50	0	0	0	0.00	Eastbound wastewater is treated at westbound site.
Dena Mora (West) Rest Area	4,079	6,400	0.21	6,119	0	6,119	Yes	Not Completed	0.50	6,119	21	14,300	0.33	Eastbound wastewater is treated at westbound site.
Divide (North) Rest Area	899	1,800	0.20	1,348	0	1,348	No	Sebud, Very Stony-Ratiopeak, Stony-Bridger, Stony Complex	0.60	1,123	4	2,400	0.06	
Divide (South) Rest Area	651	1,800	0.14	976	0	976	No	Sebud, Very Stony-Ratiopeak, Stony-Bridger, Stony Complex	0.60	813	3	1,700	0.04	
Emigrant Rest Area	660	1,670	0.28	990	0	990	No	No Data Available	0.50	990	4	2,400	0.06	
Flowing Wells Rest Area	443	330	0.72	665	0	665	No	Floweree Silt Loam	0.50	665	3	1,700	0.04	
Gold Creek (East) Rest Area	1,525	4,025	0.12	2,288	0	2,288	No	Aquents-Slickens Complex	0.50	2,288	8	5,200	0.12	
Gold Creek (West) Rest Area	1,418	4,025	0.15	2,127	0	2,127	No	Aquents-Slickens Complex	0.50	2,127	8	5,200	0.12	
Greycliff (East) Rest Area	1,419	3,915	0.17	2,128	0	2,128	No	Work Clay Loam	0.30	3,546	12	8,000	0.18	
Greycliff (West) Rest Area	1,349	3,915	0.14	2,024	0	2,024	No	Work Clay Loam	0.30	3,373	12	8,000	0.18	
Hardin (East) Rest Area	821	2,875	0.13	1,232	216	1,447	No	Keiser Silty Clay Loam	0.30	2,412	9	5,900	0.14	
Hardin (West) Rest Area	570	2,875	0.09	854	149	1,004	No	Hydro Loam	0.30	1,673	6	3,800	0.09	
Harlowton Rest Area	1,040	2,200	0.26	1,560	0	1,560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Hathaway (East) Rest Area	613	2,345	0.11	920	161	1,081	No	Yamac Loam	0.50	1,081	4	2,400	0.06	
Hathaway (West) Rest Area	564	2,345	0.09	845	148	993	No	Tinsley-Armells-Yamac Complex or Evanston Loam	0.30	1,655	6	3,800	0.09	
Hysham (East) Rest Area	773	2,335	0.15	1,160	0	1,160	No	McRae and Havre Loams	0.30	1,933	7	4,500	0.10	
Hysham (West) Rest Area	815	2,335	0.17	1,222	0	1,222	No	McRae and Havre Loams	0.30	2,037	7	4,500	0.10	
Jefferson City (North) Rest Area	0	2,030	0.16	731	0	731	No	Breeton-Cometcrik Complex	0.60	609	3	1,700	0.04	
Jefferson City (South) Rest Area	0	2,030	0.16	731	0	731	No	Breeton-Cometcrik Complex	0.60	609	3	1,700	0.04	
Lima Rest Area	1,823	3,060	0.18	2,734	0	2,734	No	Bronec Gravelly Loam	0.60	2,278	8	5,200	0.12	
Lost Trail Pass Rest Area	561	710	0.33	842	0	842	No	Roman-Priestlake-Lilylake Families	0.50	842	3	1,700	0.04	
Mosby Rest Area	749	570	0.34	1,123	197	1,320	No	Neldore-Volborg, Wooded, Silty Clays	0.20	3,299	11	7,300	0.17	
Quartz Flats (East) Rest Area	2,582	3,140	0.22	3,872	0	3,872	No	Not Completed	0.50	3,872	13	8,700	0.20	
Quartz Flats (West) Rest Area	2,347	3,140	0.18	3,521	0	3,521	No	Not Completed	0.50	3,521	12	8,000	0.18	
Raynolds Pass Rest Area	474	950	0.20	711	0	711	No	Scravo Sandy Loam	0.60	593	2	1,000	0.02	
Roberts Rest Area	296	2,630	0.03	443	0	443	No	Maurice-Bearmouth Complex	0.50	443	2	1,000	0.02	
Sweet Grass Rest Area	824	2,120	0.13	1,236	0	1,236	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Teton River (North) Rest Area	361	1,795	0.09	542	0	542	No	Ryell-Havre Loams	0.50	542	2	1,000	0.02	
Teton River (South) Rest Area	512	1,795	0.10	768	0	768	No	Evanston Loam	0.30	1,280	5	3,100	0.07	
Troy Rest Area	341	2,680	0.05	512	0	512	No	Andic Dystrochrepts, Glacial Outwash Terraces	0.50	512	2	1,000	0.02	
Vandalia Rest Area	202	1,250	0.06	302	53	355	No	Phillips Loam	0.50	355	2	1,000	0.02	
Vista Point Rest Area	1,636	1,090	0.51	2,454	0	2,454	No	No Data Available	0.50	2,454	9	5,900	0.14	

⁽¹⁾Based on DEQ-4, Table 8-2 for Nonresidential Facilities.

⁽²⁾(Wastewater Flow / Application Rate) x 0.5

⁽³⁾Based on 3' wide and 100' long trench (Current DEQ standards for maximum trench width and length on dosed systems).

⁽⁴⁾Based on 100' laterals, 3' wide trench, and 4' spacing b/w trenches.

2031 Wastewater System Design Flow Requirements

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons
 Water Usage Per Restroom User (just sinks and drinking fountains) = 0.5 Gallons

Facility Name	Peak Daily People, PDP	Average Annual Daily Traffic, AADT	Proportion of Mainline Traffic Stopping at Rest Area, P	Average Daily Domestic Design Flow (gpd)	R.O. Treatment Unit Reject Water (gpd)	Total Wastewater System Design Flow (gpd)	Is a Discharge Permit Required?	NRCS Soil Map Unit Name	Application Rate (gpd/ft ²) ⁽¹⁾	Drainfield Size (ft ²) ⁽²⁾	# of Laterals ⁽³⁾	Total Footprint of Drainfield ⁽⁴⁾		Notes
												ft ²	acres	
Anaconda Rest Area	2,181	11,938	0.07	3,272	0	3,272	No	Cetrack Loam	0.50	3,272	11	7,300	0.17	
Armington Junction Rest Area	1,247	3,172	0.16	1,871	0	1,871	No	Rivra Gravelly Sandy Loam	0.80	1,169	4	2,400	0.06	
Bad Route Rest Area	1,608	7,151	0.11	2,412	422	2,834	No	Lonna Silt Loam	0.50	2,834	10	6,600	0.15	
Bearmouth (East) Rest Area	2,108	5,250	0.16	3,161	553	3,715	No	Mccabe-Canarway Complex	0.80	2,322	8	5,200	0.12	
Bearmouth (West) Rest Area	2,021	5,250	0.15	3,032	531	3,563	No	Mccabe-Canarway Complex	0.80	2,227	8	5,200	0.12	
Bozeman Rest Area	6,536	35,440	0.04	9,804	0	9,804	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Bridger Rest Area	0	7,264	0.25	4,086	0	4,086	No	Haverson-Heldt Silty Clay Loam	0.30	6,810	23	15,700	0.36	
Broadus Rest Area	699	3,408	0.08	1,049	0	1,049	No	Vona-Remmit Fine Sandy Loam	0.50	1,049	4	2,400	0.06	
Clearwater Junction Rest Area	2,072	4,146	0.19	3,108	0	3,108	No	Perma Gravelly Loam	0.60	2,590	9	5,900	0.14	
Columbus (East) Rest Area	2,243	7,044	0.11	3,364	0	3,364	No	Lambeth-Yawdim Complex	0.50	3,364	12	8,000	0.18	
Columbus (West) Rest Area	1,759	7,044	0.08	2,639	0	2,639	No	Lambeth-Yawdim Complex	0.50	2,639	9	5,900	0.14	
Conrad Rest Area	829	5,085	0.04	1,244	0	1,244	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Culbertson Rest Area	422	3,940	0.03	633	0	633	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Custer (East) Rest Area	894	6,065	0.12	1,342	0	1,342	No	Blacksheep, Dry-Cabbart, Dry-Rock Outcrop Complex	0.50	1,342	5	3,100	0.07	
Custer (West) Rest Area	652	6,065	0.10	978	0	978	No	Yegen Sandy Loam	0.60	815	3	1,700	0.04	
Dearborn (North) Rest Area	1,291	4,197	0.14	1,937	0	1,937	No	Chinook Sandy Loam	0.60	1,614	6	3,800	0.09	Southbound wastewater is treated at northbound site.
Dearborn (South) Rest Area	0	0	0.12	0	0	0	No	Chinook Sandy Loam	0.60	0	0	0	0.00	Southbound wastewater is treated at northbound site.
Dena Mora (East) Rest Area	0	0	0.27	0	0	0	No	Not Completed	0.50	0	0	0	0.00	Eastbound wastewater is treated at westbound site.
Dena Mora (West) Rest Area	9,075	9,252	0.21	13,612	0	13,612	Yes	Not Completed	0.50	13,612	46	31,800	0.73	Eastbound wastewater is treated at westbound site.
Divide (North) Rest Area	1,140	2,312	0.20	1,710	0	1,710	No	Sebud, Very Stony-Ratiopeak, Stony-Bridger, Stony Complex	0.60	1,425	5	3,100	0.07	
Divide (South) Rest Area	825	2,312	0.14	1,238	0	1,238	No	Sebud, Very Stony-Ratiopeak, Stony-Bridger, Stony Complex	0.60	1,032	4	2,400	0.06	
Emigrant Rest Area	797	2,038	0.28	1,196	0	1,196	No	No Data Available	0.50	1,196	4	2,400	0.06	
Flowing Wells Rest Area	535	403	0.72	803	0	803	No	Floweree Silt Loam	0.50	803	3	1,700	0.04	
Gold Creek (East) Rest Area	1,843	4,911	0.12	2,764	0	2,764	No	Aquents-Slickens Complex	0.50	2,764	10	6,600	0.15	
Gold Creek (West) Rest Area	1,713	4,911	0.15	2,570	0	2,570	No	Aquents-Slickens Complex	0.50	2,570	9	5,900	0.14	
Greycliff (East) Rest Area	1,714	4,777	0.17	2,571	0	2,571	No	Work Clay Loam	0.30	4,284	15	10,100	0.23	
Greycliff (West) Rest Area	1,630	4,777	0.14	2,445	0	2,445	No	Work Clay Loam	0.30	4,074	14	9,400	0.22	
Hardin (East) Rest Area	1,049	3,722	0.13	1,574	275	1,849	No	Keiser Silty Clay Loam	0.30	3,082	11	7,300	0.17	
Hardin (West) Rest Area	728	3,722	0.09	1,092	191	1,283	No	Hydro Loam	0.30	2,138	8	5,200	0.12	
Harlowton Rest Area	1,573	3,400	0.26	2,359	0	2,359	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Hathaway (East) Rest Area	845	3,285	0.11	1,267	222	1,489	No	Yamac Loam	0.50	1,489	5	3,100	0.07	
Hathaway (West) Rest Area	776	3,285	0.09	1,164	204	1,368	No	Tinsley-Armells-Yamac Complex or Evanston Loam	0.30	2,280	8	5,200	0.12	
Hysham (East) Rest Area	1,007	3,084	0.15	1,510	0	1,510	No	McRae and Havre Loams	0.30	2,517	9	5,900	0.14	
Hysham (West) Rest Area	1,061	3,084	0.17	1,592	0	1,592	No	McRae and Havre Loams	0.30	2,653	9	5,900	0.14	
Jefferson City (North) Rest Area	0	2,477	0.16	892	0	892	No	Breeton-Cometcrik Complex	0.60	743	3	1,700	0.04	
Jefferson City (South) Rest Area	0	2,477	0.16	892	0	892	No	Breeton-Cometcrik Complex	0.60	743	3	1,700	0.04	
Lima Rest Area	2,756	4,729	0.18	4,134	0	4,134	No	Bronec Gravelly Loam	0.60	3,445	12	8,000	0.18	
Lost Trail Pass Rest Area	678	866	0.33	1,017	0	1,017	No	Roman-Priestlake-Lilylake Families	0.50	1,017	4	2,400	0.06	
Mosby Rest Area	1,153	898	0.34	1,730	303	2,033	No	Neldore-Volborg, Wooded, Silty Clays	0.20	5,082	17	11,500	0.26	
Quartz Flats (East) Rest Area	3,490	4,313	0.22	5,235	0	5,235	Yes	Not Completed	0.50	5,235	18	12,200	0.28	
Quartz Flats (West) Rest Area	3,174	4,313	0.18	4,760	0	4,760	No	Not Completed	0.50	4,760	16	10,800	0.25	
Raynolds Pass Rest Area	692	1,414	0.20	1,038	0	1,038	No	Scravo Sandy Loam	0.60	865	3	1,700	0.04	
Roberts Rest Area	464	4,226	0.03	696	0	696	No	Maurice-Bearmouth Complex	0.50	696	3	1,700	0.04	
Sweet Grass Rest Area	996	2,587	0.13	1,494	0	1,494	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Teton River (North) Rest Area	456	2,297	0.09	684	0	684	No	Ryell-Havre Loams	0.50	684	3	1,700	0.04	
Teton River (South) Rest Area	647	2,297	0.10	971	0	971	No	Evanston Loam	0.30	1,618	6	3,800	0.09	
Troy Rest Area	412	3,270	0.05	618	0	618	No	Andic Dystrochrepts, Glacial Outwash Terraces	0.50	618	3	1,700	0.04	
Vandalia Rest Area	258	1,618	0.06	386	68	454	No	Phillips Loam	0.50	454	2	1,000	0.02	
Vista Point Rest Area	1,977	1,330	0.51	2,965	0	2,965	No	No Data Available	0.50	2,965	10	6,600	0.15	

⁽¹⁾Based on DEQ-4, Table 8-2 for Nonresidential Facilities.

⁽²⁾(Wastewater Flow / Application Rate) x 0.5

⁽³⁾Based on 3' wide and 100' long trench (Current DEQ standards for maximum trench width and length on dosed systems).

⁽⁴⁾Based on 100' laterals, 3' wide trench, and 4' spacing b/w trenches.

2051 Wastewater System Design Flow Requirements

Restroom Users Per Vehicle = 1.5
 Water Usage Per Restroom User = 1.5 Gallons
 Water Usage Per Restroom User (just sinks and drinking fountains) = 0.5 Gallons

Facility Name	Peak Daily People, PDP	Average Annual Daily Traffic, AADT	Proportion of Mainline Traffic Stopping at Rest Area, P	Average Daily Domestic Design Flow (gpd)	R.O. Treatment Unit Reject Water (gpd)	Total Wastewater System Design Flow (gpd)	Is a Discharge Permit Required?	NRCS Soil Map Unit Name	Application Rate (gpd/ft ²) ⁽¹⁾	Drainfield Size (ft ²) ⁽²⁾	# of Laterals ⁽³⁾	Total Footprint of Drainfield ⁽⁴⁾		Notes
												ft ²	acres	
Anaconda Rest Area	2,881	15,765	0.07	4,321	0	4,321	No	Cetrack Loam	0.50	4,321	15	10,100	0.23	
Armington Junction Rest Area	1,522	3,871	0.16	2,282	0	2,282	No	Rivra Gravelly Sandy Loam	0.80	1,427	5	3,100	0.07	
Bad Route Rest Area	2,686	11,949	0.11	4,030	705	4,735	No	Lonna Silt Loam	0.50	4,735	16	10,800	0.25	
Bearmouth (East) Rest Area	2,729	6,798	0.16	4,093	716	4,810	No	Mccabe-Canarway Complex	0.80	3,006	11	7,300	0.17	
Bearmouth (West) Rest Area	2,617	6,798	0.15	3,926	687	4,613	No	Mccabe-Canarway Complex	0.80	2,883	10	6,600	0.15	
Bozeman Rest Area	11,354	61,568	0.04	17,032	0	17,032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Bridger Rest Area	0	9,405	0.25	5,290	0	5,290	Yes	Haverson-Heldt Silty Clay Loam	0.30	8,817	30	20,600	0.47	
Broadus Rest Area	1,145	5,585	0.08	1,718	0	1,718	No	Vona-Remmit Fine Sandy Loam	0.50	1,718	6	3,800	0.09	
Clearwater Junction Rest Area	3,330	6,662	0.19	4,995	0	4,995	No	Perma Gravelly Loam	0.60	4,162	14	9,400	0.22	
Columbus (East) Rest Area	3,204	10,064	0.11	4,807	0	4,807	No	Lambeth-Yawdim Complex	0.50	4,807	17	11,500	0.26	
Columbus (West) Rest Area	2,514	10,064	0.08	3,770	0	3,770	No	Lambeth-Yawdim Complex	0.50	3,770	13	8,700	0.20	
Conrad Rest Area	1,162	7,124	0.04	1,743	0	1,743	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Culbertson Rest Area	665	6,208	0.03	998	0	998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Custer (East) Rest Area	1,219	8,265	0.12	1,828	0	1,828	No	Blacksheep, Dry-Cabbart, Dry-Rock Outcrop Complex	0.50	1,828	7	4,500	0.10	
Custer (West) Rest Area	889	8,265	0.10	1,333	0	1,333	No	Yegen Sandy Loam	0.60	1,111	4	2,400	0.06	
Dearborn (North) Rest Area	1,575	5,122	0.14	2,363	0	2,363	No	Chinook Sandy Loam	0.60	1,969	7	4,500	0.10	Southbound wastewater is treated at northbound site.
Dearborn (South) Rest Area	0	0	0.12	0	0	0	No	Chinook Sandy Loam	0.60	0	0	0	0.00	Southbound wastewater is treated at northbound site.
Dena Mora (East) Rest Area	0	0	0.27	0	0	0	No	Not Completed	0.50	0	0	0	0.00	Eastbound wastewater is treated at westbound site.
Dena Mora (West) Rest Area	8,370	13,376	0.21	12,555	0	12,555	Yes	Not Completed	0.50	12,555	42	29,000	0.67	Eastbound wastewater is treated at westbound site.
Divide (North) Rest Area	1,464	2,970	0.20	2,196	0	2,196	No	Sebud, Very Stony-Ratiopeak, Stony-Bridger, Stony Complex	0.60	1,830	7	4,500	0.10	
Divide (South) Rest Area	1,060	2,970	0.14	1,590	0	1,590	No	Sebud, Very Stony-Ratiopeak, Stony-Bridger, Stony Complex	0.60	1,325	5	3,100	0.07	
Emigrant Rest Area	973	2,486	0.28	1,459	0	1,459	No	No Data Available	0.50	1,459	5	3,100	0.07	
Flowing Wells Rest Area	653	491	0.72	980	0	980	No	Floweree Silt Loam	0.50	980	4	2,400	0.06	
Gold Creek (East) Rest Area	2,248	5,993	0.12	3,373	0	3,373	No	Aquents-Slickens Complex	0.50	3,373	12	8,000	0.18	
Gold Creek (West) Rest Area	2,090	5,993	0.15	3,135	0	3,135	No	Aquents-Slickens Complex	0.50	3,135	11	7,300	0.17	
Greycliff (East) Rest Area	2,091	5,829	0.17	3,137	0	3,137	No	Work Clay Loam	0.30	5,228	18	12,200	0.28	
Greycliff (West) Rest Area	1,989	5,829	0.14	2,983	0	2,983	No	Work Clay Loam	0.30	4,971	17	11,500	0.26	
Hardin (East) Rest Area	1,359	4,820	0.13	2,038	357	2,395	No	Keiser Silty Clay Loam	0.30	3,991	14	9,400	0.22	
Hardin (West) Rest Area	942	4,820	0.09	1,414	247	1,661	No	Hydro Loam	0.30	2,768	10	6,600	0.15	
Harlowton Rest Area	2,430	5,254	0.26	3,645	0	3,645	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Hathaway (East) Rest Area	1,183	4,602	0.11	1,775	311	2,086	No	Yamac Loam	0.50	2,086	7	4,500	0.10	
Hathaway (West) Rest Area	1,087	4,602	0.09	1,631	285	1,917	No	Tinsley-Armells-Yamac Complex or Evanston Loam	0.30	3,194	11	7,300	0.17	
Hysham (East) Rest Area	1,329	4,072	0.15	1,994	0	1,994	No	McRae and Havre Loams	0.30	3,324	12	8,000	0.18	
Hysham (West) Rest Area	1,401	4,072	0.17	2,102	0	2,102	No	McRae and Havre Loams	0.30	3,503	12	8,000	0.18	
Jefferson City (North) Rest Area	0	3,022	0.16	1,088	0	1,088	No	Breeton-Cometcrik Complex	0.60	907	4	2,400	0.06	
Jefferson City (South) Rest Area	0	3,022	0.16	1,088	0	1,088	No	Breeton-Cometcrik Complex	0.60	907	4	2,400	0.06	
Lima Rest Area	4,259	7,307	0.18	6,389	0	6,389	Yes	Bronec Gravelly Loam	0.60	5,324	18	12,200	0.28	
Lost Trail Pass Rest Area	827	1,057	0.33	1,240	0	1,240	No	Roman-Priestlake-Lilylake Families	0.50	1,240	5	3,100	0.07	
Mosby Rest Area	1,818	1,415	0.34	2,726	477	3,203	No	Neldore-Volborg, Wooded, Silty Clays	0.20	8,009	27	18,500	0.42	
Quartz Flats (East) Rest Area	4,794	5,925	0.22	7,191	0	7,191	Yes	Not Completed	0.50	7,191	24	16,400	0.38	
Quartz Flats (West) Rest Area	4,359	5,925	0.18	6,539	0	6,539	Yes	Not Completed	0.50	6,539	22	15,000	0.34	
Raynolds Pass Rest Area	1,031	2,106	0.20	1,546	0	1,546	No	Scravo Sandy Loam	0.60	1,288	5	3,100	0.07	
Roberts Rest Area	745	6,791	0.03	1,118	0	1,118	No	Maurice-Bearmouth Complex	0.50	1,118	4	2,400	0.06	
Sweet Grass Rest Area	1,215	3,156	0.13	1,823	0	1,823	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Municipal System
Teton River (North) Rest Area	584	2,939	0.09	876	0	876	No	Ryell-Havre Loams	0.50	876	3	1,700	0.04	
Teton River (South) Rest Area	828	2,939	0.10	1,242	0	1,242	No	Evanston Loam	0.30	2,070	7	4,500	0.10	
Troy Rest Area	503	3,990	0.05	754	0	754	No	Andic Dystrochrepts, Glacial Outwash Terraces	0.50	754	3	1,700	0.04	
Vandalia Rest Area	333	2,096	0.06	500	88	588	No	Phillips Loam	0.50	588	2	1,000	0.02	
Vista Point Rest Area	2,412	1,623	0.51	3,618	0	3,618	No	No Data Available	0.50	3,618	13	8,700	0.20	

⁽¹⁾Based on DEQ-4, Table 8-2 for Nonresidential Facilities.

⁽²⁾(Wastewater Flow / Application Rate) x 0.5

⁽³⁾Based on 3' wide and 100' long trench (Current DEQ standards for maximum trench width and length on dosed systems).

⁽⁴⁾Based on 100' laterals, 3' wide trench, and 4' spacing b/w trenches.

Wastewater System Operation and Maintenance

Facility Name	Operation and Maintenance Concern				Operation and Maintenance Score	Notes
	Frequent Septic Tank Pumping	Septic Tank Concerns	Drainfield Concerns	Other Concerns		
Anaconda Rest Area	No	No	No	No	Excellent	
Arrington Junction Rest Area	No	No	No	No	Excellent	
Bad Route Rest Area	Yes	No	No	No	Fair	
Bearmouth (East) Rest Area	No	No	No	No	Excellent	New construction 2014.
Bearmouth (West) Rest Area	No	No	No	No	Excellent	New construction 2014.
Bozeman Rest Area	N/A	N/A	N/A	N/A	N/A	Municipal System.
Bridger Rest Area	No	No	No	No	Excellent	
Broadus Rest Area	No	No	No	No	Excellent	
Clearwater Junction Rest Area	No	Yes	No	No	Good	Septic tank is pumped yearly due to the blanket being 3 ft. thick and plugging the inlet baffle.
Columbus (East) Rest Area	No	No	No	No	Excellent	
Columbus (West) Rest Area	No	No	No	No	Excellent	
Conrad Rest Area	N/A	N/A	N/A	No	N/A	Municipal System.
Culbertson Rest Area	N/A	N/A	N/A	N/A	N/A	Municipal System.
Custer (East) Rest Area	No	No	No	No	Excellent	
Custer (West) Rest Area	No	No	No	No	Excellent	
Dearborn (North) Rest Area	No	No	No	No	Excellent	
Dearborn (South) Rest Area	No	No	No	No	Excellent	
Dena Mora (East) Rest Area	No	No	No	No	Excellent	
Dena Mora (West) Rest Area	No	No	Yes	No	Good	Vertical bed pipes on drainfield occasionally spout water.
Divide (North) Rest Area	No	No	No	No	Excellent	
Divide (South) Rest Area	No	No	No	No	Excellent	
Emigrant Rest Area	Yes	No	No	No	Fair	
Flowing Wells Rest Area	No	No	No	No	Excellent	
Gold Creek (East) Rest Area	No	No	No	No	Excellent	
Gold Creek (West) Rest Area	No	No	No	No	Excellent	
Greycliff (East) Rest Area	No	No	No	No	Excellent	New construction 2013.
Greycliff (West) Rest Area	No	No	No	No	Excellent	New construction 2013.
Hardin (East) Rest Area	No	No	No	No	Excellent	
Hardin (West) Rest Area	No	No	No	No	Excellent	
Harlowton Rest Area	N/A	N/A	N/A	N/A	N/A	Municipal System.
Hathaway (East) Rest Area	No	No	No	No	Excellent	
Hathaway (West) Rest Area	No	No	No	No	Excellent	
Hysham (East) Rest Area	No	No	No	No	Excellent	
Hysham (West) Rest Area	No	No	No	No	Excellent	
Jefferson City (North) Rest Area	No	No	No	No	Excellent	
Jefferson City (South) Rest Area	No	No	No	No	Excellent	
Lima Rest Area	Yes	No	No	Yes	Fair	During power outages, the waste backs up into the building forcing closures. The pump filters and alarms don't work as they should.
Lost Trail Pass Rest Area	No	No	No	Yes	Good	Occasionally have issues with the air flush toilets.
Mosby Rest Area	No	No	No	No	Excellent	
Quartz Flats (East) Rest Area	Yes	No	Yes	No	Fair	Drainfield plugging if system is not pumped out occasionally.
Quartz Flats (West) Rest Area	Yes	No	Yes	No	Fair	Drainfield plugging if system is not pumped out occasionally.
Raynolds Pass Rest Area	No	No	No	No	Excellent	
Roberts Rest Area	No	No	Yes	No	Fair	Temporary shut down of rest area due to saturation of drainfield caused by irrigation ditch behind the rest area.
Sweet Grass Rest Area	N/A	N/A	N/A	N/A	N/A	Municipal System.
Teton River (North) Rest Area	No	No	No	No	Excellent	
Teton River (South) Rest Area	No	No	No	No	Excellent	
Troy Rest Area	No	No	Yes	No	Good	Atmosphere in dose tank is acidic and rusts pipes and pumps. Replacement needed once every ten years.
Vandalia Rest Area	No	Yes	No	Yes	Fair	Septic tanks haven't been pumped regularly. The floats on the dose system are causing problems.
Vista Point Rest Area	N/A	N/A	N/A	N/A	Poor	Site has vaulted toilets. No wastewater treatment system.

Site Constraints

Facility Name	Approximate ROW (acres)	50% of ROW Area (acres)	Drainfield Area/50% of ROW Area (%)	Site Constraint Score
Anaconda Rest Area	22.15	11.08	2.09	Excellent
Armington Junction Rest Area	2.56	1.28	5.56	Good
Bad Route Rest Area	16.41	8.21	3.02	Excellent
Bearmouth (East) Rest Area	5.01	2.51	6.69	Good
Bearmouth (West) Rest Area	4.47	2.24	6.78	Good
Bozeman Rest Area	N/A	N/A	N/A	N/A
Bridger Rest Area	6.33	3.17	14.94	Fair
Broadus Rest Area	12.32	6.16	1.42	Excellent
Clearwater Junction Rest Area	17.49	8.75	2.47	Excellent
Columbus (East) Rest Area	15.00	7.50	3.52	Excellent
Columbus (West) Rest Area	13.59	6.80	2.94	Excellent
Conrad Rest Area	N/A	N/A	N/A	N/A
Culbertson Rest Area	N/A	N/A	N/A	N/A
Custer (East) Rest Area	34.04	17.02	0.61	Excellent
Custer (West) Rest Area	29.78	14.89	0.37	Excellent
Dearborn (North) Rest Area	9.97	4.99	2.07	Excellent
Dearborn (South) Rest Area	6.31	3.16	0.00	Excellent
Dena Mora (East) Rest Area	7.01	3.51	0.00	Excellent
Dena Mora (West) Rest Area	13.87	6.94	10.53	Fair
Divide (North) Rest Area	14.27	7.14	1.45	Excellent
Divide (South) Rest Area	13.80	6.90	1.03	Excellent
Emigrant Rest Area	4.66	2.33	3.05	Excellent
Flowing Wells Rest Area	2.25	1.13	4.90	Excellent
Gold Creek (East) Rest Area	9.70	4.85	3.79	Excellent
Gold Creek (West) Rest Area	7.29	3.65	4.60	Excellent
Greycliff (East) Rest Area	4.49	2.25	12.48	Fair
Greycliff (West) Rest Area	9.12	4.56	5.79	Good
Hardin (East) Rest Area	15.08	7.54	2.86	Excellent
Hardin (West) Rest Area	18.18	9.09	1.67	Excellent
Harlowton Rest Area	N/A	N/A	N/A	N/A
Hathaway (East) Rest Area	20.42	10.21	1.01	Excellent
Hathaway (West) Rest Area	46.46	23.23	0.72	Excellent
Hysham (East) Rest Area	4.19	2.10	8.77	Good
Hysham (West) Rest Area	3.17	1.59	11.59	Fair
Jefferson City (North) Rest Area	7.94	3.97	1.39	Excellent
Jefferson City (South) Rest Area	5.32	2.66	2.07	Excellent
Lima Rest Area	11.48	5.74	4.88	Excellent
Lost Trail Rest Area	3.19	1.60	4.46	Excellent
Mosby Rest Area	6.94	3.47	12.24	Fair
Quartz Flats (East) Rest Area	3.50	1.75	21.51	Poor
Quartz Flats (West) Rest Area	3.17	1.59	21.73	Poor
Raynolds Pass Rest Area	9.65	4.83	1.47	Excellent
Roberts Rest Area	4.17	2.09	2.64	Excellent
Sweet Grass Rest Area	N/A	N/A	N/A	N/A
Teton River (North) Rest Area	13.38	6.69	0.58	Excellent
Teton River (South) Rest Area	14.70	7.35	1.41	Excellent
Troy Rest Area	7.91	3.96	0.99	Excellent
Vandalia Rest Area	9.49	4.75	0.48	Excellent
Vista Point Rest Area	0.81	0.41	49.31	Poor

Wastewater System Remaining Service Life

Facility Name	Year of Treatment System Construction	Year of Treatment System Rehabilitation or Replacement	Remaining Service Life
Anaconda Rest Area	2008	-	14
Armington Junction Rest Area	1992	2007	13
Bad Route Rest Area	1974	2012	18
Bearmouth (East) Rest Area	2014	-	20
Bearmouth (West) Rest Area	2014	-	20
Bozeman Rest Area	N/A	N/A	N/A
Bridger Rest Area	1967	1989	-5
Broadus Rest Area	1997	2012	18
Clearwater Junction Rest Area	1997	-	3
Columbus (East) Rest Area	1970	-	-24
Columbus (West) Rest Area	1970	-	-24
Conrad Rest Area	N/A	N/A	N/A
Culbertson Rest Area	N/A	N/A	N/A
Custer (East) Rest Area	1975	-	-19
Custer (West) Rest Area	1975	-	-19
Dearborn (North) Rest Area	2010	-	16
Dearborn (South) Rest Area	2010	-	16
Dena Mora (East) Rest Area	2003	2013	19
Dena Mora (West) Rest Area	2003	2013	19
Divide (North) Rest Area	-	-	-1994
Divide (South) Rest Area	-	-	-1994
Emigrant Rest Area	1987	-	-7
Flowing Wells Rest Area	1960	2000	6
Gold Creek (East) Rest Area	-	-	-1994
Gold Creek (West) Rest Area	-	-	-1994
Greycliff (East) Rest Area	2013	-	19
Greycliff (West) Rest Area	2013	-	19
Hardin (East) Rest Area	1974	2011	17
Hardin (West) Rest Area	1974	2011	17
Harlowton Rest Area	N/A	N/A	N/A
Hathaway (East) Rest Area	1972	1997	3
Hathaway (West) Rest Area	1972	1997	3
Hysham (East) Rest Area	1967	2012	18
Hysham (West) Rest Area	1967	2008	14
Jefferson City (North) Rest Area	1973	-	-21
Jefferson City (South) Rest Area	1973	-	-21
Lima Rest Area	2011	2011	17
Lost Trail Pass Rest Area	2001	-	7
Mosby Rest Area	2005	2012	18
Quartz Flats (East) Rest Area	1988	-	-6
Quartz Flats (West) Rest Area	1988	-	-6
Raynolds Pass Rest Area	-	-	-1994
Roberts Rest Area	1968	-	-26
Sweet Grass Rest Area	N/A	N/A	N/A
Teton River (North) Rest Area	1983	2013	19
Teton River (South) Rest Area	1983	2013	19
Troy Rest Area	1990	-	-4
Vandalia Rest Area	1966	1993	-1
Vista Point Rest Area	-	-	-1994

Wastewater System Summary

	Rest Area Name	Wastewater					Remaining Service Life
		Municipal System (Y/N)	Treatment System	Wastewater Design Flow	Operation & Maintenance	Site Constraints	
1	Anaconda Rest Area	No	Excellent	Excellent	Excellent	Excellent	Good
2	Armington Junction Rest Area	No	Good	Excellent	Excellent	Good	Good
3	Bad Route Rest Area	No	Fair	Excellent	Fair	Excellent	Excellent
4	Bearmouth (East) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent
5	Bearmouth (West) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent
6	Bozeman Rest Area	Yes	-	-	-	-	-
7	Bridger Rest Area	No	Fair	Poor	Excellent	Fair	Poor
8	Broadus Rest Area	No	Good	Excellent	Excellent	Excellent	Excellent
9	Clearwater Junction Rest Area	No	Good	Excellent	Good	Excellent	Poor
10	Columbus (East) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
11	Columbus (West) Rest Area	No	Good	Excellent	Excellent	Excellent	Poor
12	Conrad Rest Area	Yes	-	-	-	-	-
13	Culbertson Rest Area	Yes	-	-	-	-	-
14	Custer (East) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
15	Custer (West) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
16	Dearborn (North) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent
17	Dearborn (South) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent
18	Dena Mora (East) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent
19	Dena Mora (West) Rest Area	No	Excellent	Poor	Good	Fair	Excellent
20	Divide (North) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
21	Divide (South) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
22	Emigrant Rest Area	No	Fair	Excellent	Fair	Excellent	Poor
23	Flowing Wells Rest Area	No	Fair	Excellent	Excellent	Excellent	Fair
24	Gold Creek (East) Rest Area	No	Good	Excellent	Excellent	Excellent	Poor
25	Gold Creek (West) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
26	Greycliff (East) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent
27	Greycliff (West) Rest Area	No	Excellent	Excellent	Excellent	Excellent	Excellent
28	Hardin (East) Rest Area	No	Fair	Excellent	Excellent	Excellent	Excellent
29	Hardin (West) Rest Area	No	Fair	Excellent	Excellent	Excellent	Excellent
30	Harlowton Rest Area	Yes	-	-	-	-	-
31	Hathaway (East) Rest Area	No	Good	Excellent	Excellent	Excellent	Poor
32	Hathaway (West) Rest Area	No	Good	Excellent	Excellent	Excellent	Poor
33	Hysham (East) Rest Area	No	Good	Excellent	Excellent	Good	Excellent
34	Hysham (West) Rest Area	No	Good	Excellent	Excellent	Fair	Good
35	Jefferson City (North) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
36	Jefferson City (South) Rest Area	No	Fair	Excellent	Excellent	Excellent	Poor
37	Lima Rest Area	No	Excellent	Poor	Fair	Excellent	Excellent
38	Lost Trail Pass Rest Area	No	Good	Excellent	Good	Excellent	Fair
39	Mosby Rest Area	No	Good	Excellent	Excellent	Fair	Excellent
40	Quartz Flats (East) Rest Area	No	Fair	Poor	Fair	Poor	Poor
41	Quartz Flats (West) Rest Area	No	Fair	Poor	Fair	Poor	Poor
42	Raynolds Pass Rest Area	No	Poor	Excellent	Excellent	Excellent	Poor
43	Roberts Rest Area	No	Fair	Excellent	Fair	Excellent	Poor
44	Sweet Grass Rest Area	Yes	-	-	-	-	-
45	Teton River (North) Rest Area	No	Fair	Excellent	Excellent	Excellent	Excellent
46	Teton River (South) Rest Area	No	Fair	Excellent	Excellent	Excellent	Excellent
47	Troy Rest Area	No	Good	Excellent	Good	Excellent	Poor
48	Vandalia Rest Area	No	Good	Excellent	Fair	Excellent	Poor
49	Vista Point Rest Area	No	Poor	Poor	Poor	Poor	Poor

Attachment 10

HEALTH INDEX SCORING

Health Index Scoring

Element		Point Values (0-100)				1		2		3		4	
						Anaconda Rest Area		Armington Junction Rest Area		Bad Route Rest Area		Bearmouth (East) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Poor	0.0	Excellent	7.0	Poor	0.0	Excellent	7.0
	Drainage Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Fair	0.3	Excellent	1.0
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Fair	0.3	Excellent	1.0
	Remaining Service Life	2.0	1.3	0.7	0.0	Good	1.3	Poor	0.0	Poor	0.0	Excellent	2.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	10.3	-	16.0	-	8.3	-	19.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Picnic Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Fair	0.3	Excellent	1.0
	Sidewalks	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Excellent	2.0
	Site Signage	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	SUBTOTAL	8.0	5.3	2.7	0.0	-	7.0	-	6.0	-	5.7	-	8.0
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Interior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Excellent	2.0
	Paint	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Fair	0.3	Excellent	1.0
	Remaining Service Life	2.0	1.3	0.7	0.0	Good	1.3	Poor	0.0	Poor	0.0	Excellent	2.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Excellent	2.0
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Excellent	2.0
	Siding	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Excellent	2.0
	SUBTOTAL	19.0	11.3	5.7	0.0	-	15.0	-	13.7	-	13.3	-	19.0
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Excellent	5.0	Poor	0.0	Excellent	5.0	Excellent	5.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Fair	1.3	Fair	1.3	Excellent	4.0	Excellent	4.0
	Operation & Maintenance	5.0	3.3	1.7	0.0	Fair	1.7	Fair	1.7	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Good	3.3	Fair	1.7	Fair	1.7	Excellent	5.0
	Remaining Service Life	5.0	3.3	1.7	0.0	Good	3.3	Excellent	5.0	Poor	0.0	Excellent	5.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	15.7	-	10.7	-	16.7	-	25.0	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Excellent	4.0	Good	2.7	Fair	1.3	Excellent	4.0
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Excellent	6.0	Excellent	6.0	Fair	2.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	Good	2.0	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Good	4.0	Good	4.0	Excellent	6.0	Excellent	6.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	23.0	-	20.7	-	18.3	-	25.0
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Excellent	4.0	Good	2.7	Good	2.7	Excellent	4.0
	SUBTOTAL	4.0	2.7	1.3	0.0	-	4.0	-	2.7	-	2.7	-	4.0
TOTAL		100.0	60.7	30.3	0.0	-	75.0	-	69.7	-	65.0	-	100.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				5		6		7		8	
						Bearmout (West) Rest Area		Bozeman Rest Area		Bridger Rest Area		Broadus Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Fair	2.3	Poor	0.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Poor	0.0	Poor	0.0	Excellent	7.0
	Drainage Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Fair	0.3
	Pavement Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Fair	0.3	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Excellent	2.0	Fair	0.7	Poor	0.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	19.0	-	5.0	-	1.7	-	15.7
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Good	1.3	Excellent	2.0
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Good	0.7
	Picnic Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Good	0.7	Good	0.7
	Sidewalks	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Good	1.3	Good	1.3
	Site Signage	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Good	0.7	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	8.0	-	7.3	-	5.3	-	6.0
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Good	0.7	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Fair	0.7	Good	1.3
	Paint	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Fair	0.7	Fair	0.7
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Good	1.3
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Good	3.3	Fair	1.7	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Fair	0.7	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Good	1.3	Good	1.3
SUBTOTAL	19.0	11.3	5.7	0.0	-	19.0	-	15.3	-	9.7	-	14.3	
Water	Municipal System	25.0	-	-	-	-	-	Excellent	25.0	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Excellent	5.0	-	-	Poor	0.0	Excellent	5.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Excellent	4.0	-	-	Fair	1.3	Excellent	4.0
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	-	-	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	-	-	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Excellent	5.0	-	-	Fair	1.7	Excellent	5.0
	Remaining Service Life	5.0	3.3	1.7	0.0	Excellent	5.0	-	-	Excellent	5.0	Poor	0.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	25.0	-	25.0	-	14.0	-	20.0	
Wastewater	Municipal System	25.0	-	-	-	-	-	Excellent	25.0	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Excellent	4.0	-	-	Fair	1.3	Good	2.7
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	-	-	Poor	0.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Excellent	6.0	-	-	Excellent	6.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	-	-	Fair	1.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Excellent	6.0	-	-	Poor	0.0	Excellent	6.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	25.0	-	25.0	-	8.3	-	23.7
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Excellent	4.0	Excellent	4.0	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	4.0	-	4.0	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	100.0	-	81.7	-	41.7	-	82.3

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				9		10		11		12	
						Clearwater Junction Rest Area		Columbus (East) Rest Area		Columbus (West) Rest Area		Conrad Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Poor	0.0	Poor	0.0	Excellent	7.0
	Drainage Condition	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Fair	0.3	Excellent	1.0
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Fair	0.3	Excellent	1.0
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Fair	0.3	Excellent	1.0
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0	Excellent	2.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	16.0	-	8.0	-	8.0	-	19.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Excellent	2.0
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Excellent	1.0
	Picnic Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Fair	0.3	Fair	0.3	Excellent	1.0
	Sidewalks	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Fair	0.7	Excellent	2.0
	Site Signage	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Excellent	1.0
	SUBTOTAL	8.0	5.3	2.7	0.0	-	7.0	-	5.0	-	4.3	-	8.0
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Interior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Fair	0.7	Excellent	2.0
	Paint	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Remaining Service Life	2.0	1.3	0.7	0.0	Good	1.3	Poor	0.0	Poor	0.0	Excellent	2.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Excellent	2.0	Fair	0.7	Good	1.3	Excellent	2.0
	Restroom Stalls	5.0	3.3	1.7	0.0	Good	3.3	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Excellent	2.0
	Siding	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Excellent	2.0
	SUBTOTAL	19.0	11.3	5.7	0.0	-	15.3	-	12.3	-	13.0	-	19.0
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-	Excellent	25.0
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	-	-
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Fair	1.3	Fair	1.3	Fair	1.3	-	-
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	-	-
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	-	-
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Good	3.3	Fair	1.7	Fair	1.7	-	-
	Remaining Service Life	5.0	3.3	1.7	0.0	Poor	0.0	Excellent	5.0	Excellent	5.0	-	-
SUBTOTAL	25.0	16.0	8.0	0.0	-	15.7	-	19.0	-	19.0	-	25.0	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-	Excellent	25.0
	Treatment System	4.0	2.7	1.3	0.0	Good	2.7	Fair	1.3	Good	2.7	-	-
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	-	-
	Operation & Maintenance	6.0	4.0	2.0	0.0	Good	4.0	Excellent	6.0	Excellent	6.0	-	-
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	Excellent	3.0	Excellent	3.0	-	-
	Remaining Service Life	6.0	4.0	2.0	0.0	Poor	0.0	Poor	0.0	Poor	0.0	-	-
	SUBTOTAL	25.0	12.7	6.3	0.0	-	15.7	-	16.3	-	17.7	-	25.0
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7	Excellent	4.0
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7	-	4.0
TOTAL		100.0	60.7	30.3	0.0	-	72.3	-	63.3	-	64.7	-	100.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				13		14		15		16	
						Culbertson Rest Area		Custer (East) Rest Area		Custer (West) Rest Area		Dearborn (North) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Poor	0.0	Good	4.7	Excellent	7.0
	Drainage Condition	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Good	0.7	Excellent	1.0
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Fair	0.3	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0	Excellent	2.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	15.7	-	8.7	-	13.7	-	18.7
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Picnic Areas	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Sidewalks	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Good	1.3	Excellent	2.0
	Site Signage	1.0	0.7	0.3	0.0	Fair	0.3	Good	0.7	Good	0.7	Excellent	1.0
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Good	0.7	Excellent	1.0
	SUBTOTAL	8.0	5.3	2.7	0.0	-	5.7	-	4.3	-	5.3	-	7.3
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Interior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Fair	0.7	Excellent	2.0
	Paint	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Excellent	1.0
	Remaining Service Life	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Fair	0.7	Excellent	2.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Excellent	2.0
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Excellent	2.0
	Siding	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Excellent	2.0
	SUBTOTAL	19.0	11.3	5.7	0.0	-	15.0	-	13.7	-	13.7	-	19.0
Water	Municipal System	25.0	-	-	-	Excellent	25.0	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	-	-	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	-	-	Fair	1.3	Excellent	4.0	Fair	1.3
	Operation & Maintenance	5.0	3.3	1.7	0.0	-	-	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	-	-	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	-	-	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Remaining Service Life	5.0	3.3	1.7	0.0	-	-	Poor	0.0	Poor	0.0	Excellent	5.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	25.0	-	17.3	-	20.0	-	22.3	
Wastewater	Municipal System	25.0	-	-	-	Excellent	25.0	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	-	-	Fair	1.3	Fair	1.3	Excellent	4.0
	Wastewater Design Flow	6.0	-	-	0.0	-	-	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	-	-	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	-	-	Excellent	3.0	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	-	-	Poor	0.0	Poor	0.0	Excellent	6.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	25.0	-	16.3	-	16.3	-	25.0
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	89.0	-	63.0	-	71.7	-	95.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				17		18		19		20	
						Dearborn (South) Rest Area		Dena Mora (East) Rest Area		Dena Mora (West) Rest Area		Divide (North) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Poor	0.0	Poor	0.0	Good	4.7
	Drainage Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Excellent	1.0	Good	0.7
	Pavement Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Excellent	1.0	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Excellent	2.0	Fair	0.7	Fair	0.7	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	18.7	-	9.7	-	10.3	-	13.7
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Excellent	2.0	Good	1.3	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Fair	0.3
	Picnic Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Excellent	1.0	Fair	0.3
	Sidewalks	2.0	1.3	0.7	0.0	Excellent	2.0	Fair	0.7	Fair	0.7	Good	1.3
	Site Signage	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Excellent	1.0	Fair	0.3
	SUBTOTAL	8.0	5.3	2.7	0.0	-	7.3	-	6.0	-	6.0	-	4.3
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Good	1.3
	Paint	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Fair	0.7
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Good	1.3
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Good	1.3
	SUBTOTAL	19.0	11.3	5.7	0.0	-	19.0	-	18.3	-	18.3	-	14.3
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Excellent	4.0	Good	2.7	Good	2.7	Excellent	4.0
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Excellent	5.0	Fair	1.7	Good	3.3	Good	3.3
	Remaining Service Life	5.0	3.3	1.7	0.0	Excellent	5.0	Fair	1.7	Fair	1.7	Poor	0.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	25.0	-	17.0	-	18.7	-	18.3	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Excellent	4.0	Excellent	4.0	Excellent	4.0	Fair	1.3
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	Excellent	6.0	Poor	0.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Excellent	6.0	Excellent	6.0	Good	4.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	Excellent	3.0	Fair	1.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	Poor	0.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	25.0	-	25.0	-	15.0	-	16.3
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	97.7	-	78.7	-	71.0	-	69.7

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				21		22		23		24	
						Divide (South) Rest Area		Emigrant Rest Area		Flowing Wells Rest Area		Gold Creek (East) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Poor	0.0	Poor	0.0
	Drainage Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Fair	0.3	Good	0.7
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Fair	0.3	Good	0.7	Poor	0.0	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	15.7	-	16.0	-	8.0	-	9.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Good	0.7	Good	0.7
	Picnic Areas	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Sidewalks	2.0	1.3	0.7	0.0	Fair	0.7	Good	1.3	Fair	0.7	Fair	0.7
	Site Signage	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Poor	0.0	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Fair	0.3	Good	0.7	Good	0.7	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	4.3	-	5.7	-	4.0	-	4.7
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Poor	0.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Fair	0.7	Fair	0.7
	Paint	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Fair	0.3
	Remaining Service Life	2.0	1.3	0.7	0.0	Fair	0.7	Fair	0.7	Poor	0.0	Poor	0.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Fair	0.7
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Fair	0.7	Fair	0.7	Good	1.3	Fair	0.7
	Siding	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Fair	0.7
	SUBTOTAL	19.0	11.3	5.7	0.0	-	13.7	-	13.7	-	13.0	-	8.7
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Poor	0.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Excellent	4.0	Fair	1.3	Fair	1.3	Fair	1.3
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Poor	0.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Excellent	5.0	Fair	1.7	Good	3.3	Good	3.3
	Remaining Service Life	5.0	3.3	1.7	0.0	Poor	0.0	Poor	0.0	Good	3.3	Poor	0.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	20.0	-	14.0	-	19.0	-	9.7	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Fair	1.3	Fair	1.3	Fair	1.3	Good	2.7
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Excellent	6.0	Fair	2.0	Excellent	6.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	Excellent	3.0	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Poor	0.0	Poor	0.0	Fair	2.0	Poor	0.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	16.3	-	12.3	-	18.3	-	17.7
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	72.7	-	64.3	-	65.0	-	52.3

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				25		26		27		28	
						Gold Creek (West) Rest Area		Greycliff (East) Rest Area		Greycliff (West) Rest Area		Hardin (East) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Poor	0.0	Excellent	7.0	Excellent	7.0	Poor	0.0
	Drainage Condition	1.0	0.7	0.3	0.0	Fair	0.3	Excellent	1.0	Excellent	1.0	Good	0.7
	Pavement Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Excellent	1.0	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Excellent	2.0	Excellent	2.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	9.0	-	19.0	-	19.0	-	9.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Excellent	2.0	Excellent	2.0	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Good	0.7
	Picnic Areas	1.0	0.7	0.3	0.0	Fair	0.3	Excellent	1.0	Excellent	1.0	Good	0.7
	Sidewalks	2.0	1.3	0.7	0.0	Fair	0.7	Excellent	2.0	Excellent	2.0	Good	1.3
	Site Signage	1.0	0.7	0.3	0.0	Fair	0.3	Excellent	1.0	Excellent	1.0	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Fair	0.3	Excellent	1.0	Excellent	1.0	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	4.0	-	8.0	-	8.0	-	5.3
Structure	Facility Ventilation	2.0	-	-	0.0	Poor	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Excellent	1.0	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Fair	0.7	Excellent	2.0	Excellent	2.0	Fair	0.7
	Paint	1.0	0.7	0.3	0.0	Fair	0.3	Excellent	1.0	Excellent	1.0	Fair	0.3
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Excellent	2.0	Excellent	2.0	Poor	0.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Fair	0.7	Excellent	2.0	Excellent	2.0	Good	1.3
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Fair	0.7	Excellent	2.0	Excellent	2.0	Fair	0.7
	Siding	2.0	1.3	0.7	0.0	Fair	0.7	Excellent	2.0	Excellent	2.0	Good	1.3
	SUBTOTAL	19.0	11.3	5.7	0.0	-	8.7	-	19.0	-	19.0	-	12.0
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Poor	0.0	Excellent	5.0	Excellent	5.0	Poor	0.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Fair	1.3	Excellent	4.0	Excellent	4.0	Fair	1.3
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	Poor	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Fair	1.7	Excellent	5.0	Excellent	5.0	Good	3.3
	Remaining Service Life	5.0	3.3	1.7	0.0	Poor	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	8.0	-	25.0	-	25.0	-	15.7	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Fair	1.3	Excellent	4.0	Excellent	4.0	Fair	1.3
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	Excellent	3.0	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Poor	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	16.3	-	25.0	-	25.0	-	22.3
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Excellent	4.0	Excellent	4.0	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	4.0	-	4.0	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	48.7	-	100.0	-	100.0	-	67.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				29		30		31		32	
						Hardin (West) Rest Area		Harlowton Rest Area		Hathaway (East) Rest Area		Hathaway (West) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Good	4.7	Good	4.7
	Drainage Condition	1.0	0.7	0.3	0.0	Fair	0.3	Excellent	1.0	Fair	0.3	Fair	0.3
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Good	0.7	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Poor	0.0	Fair	0.3
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Excellent	2.0	Poor	0.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	15.7	-	19.0	-	12.7	-	13.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Excellent	2.0	Good	1.3	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Fair	0.3	Fair	0.3
	Picnic Areas	1.0	0.7	0.3	0.0	Fair	0.3	Excellent	1.0	Good	0.7	Good	0.7
	Sidewalks	2.0	1.3	0.7	0.0	Good	1.3	Excellent	2.0	Fair	0.7	Good	1.3
	Site Signage	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Good	0.7	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Good	0.7	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	5.0	-	8.0	-	4.3	-	5.0
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Good	0.7	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Fair	0.7	Excellent	2.0	Fair	0.7	Fair	0.7
	Paint	1.0	0.7	0.3	0.0	Fair	0.3	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Excellent	2.0	Poor	0.0	Poor	0.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Good	1.3	Excellent	2.0	Good	1.3	Good	1.3
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Fair	0.7	Excellent	2.0	Good	1.3	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Good	1.3
	SUBTOTAL	19.0	11.3	5.7	0.0	-	12.0	-	18.0	-	13.0	-	13.0
Water	Municipal System	25.0	-	-	-	-	-	Excellent	25.0	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Poor	0.0	-	-	Excellent	5.0	Excellent	5.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Fair	1.3	-	-	Excellent	4.0	Fair	1.3
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	-	-	Fair	1.7	Fair	1.7
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	-	-	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Good	3.3	-	-	Fair	1.7	Good	3.3
	Remaining Service Life	5.0	3.3	1.7	0.0	Excellent	5.0	-	-	Poor	0.0	Excellent	5.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	15.7	-	25.0	-	13.3	-	17.3	
Wastewater	Municipal System	25.0	-	-	-	-	-	Excellent	25.0	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Fair	1.3	-	-	Good	2.7	Good	2.7
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	-	-	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Excellent	6.0	-	-	Excellent	6.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	-	-	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Excellent	6.0	-	-	Poor	0.0	Poor	0.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	22.3	-	25.0	-	17.7	-	17.7
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	73.3	-	97.7	-	63.7	-	68.7

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				33		34		35		36	
						Hysham (East) Rest Area		Hysham (West) Rest Area		Jefferson City (North) Rest Area		Jefferson City (South) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Poor	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	Drainage Condition	1.0	0.7	0.3	0.0	Fair	0.3	Fair	0.3	Good	0.7	Good	0.7
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	8.7	-	8.7	-	9.0	-	9.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Fair	0.7	Fair	0.7
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Fair	0.3	Good	0.7	Good	0.7	Good	0.7
	Picnic Areas	1.0	0.7	0.3	0.0	Fair	0.3	Good	0.7	Good	0.7	Good	0.7
	Sidewalks	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Fair	0.7	Fair	0.7
	Site Signage	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	4.7	-	5.3	-	4.0	-	4.0
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Fair	0.7	Fair	0.7	Fair	0.7	Fair	0.7
	Paint	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Good	1.3
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3	Good	1.3
	SUBTOTAL	19.0	11.3	5.7	0.0	-	13.0	-	13.0	-	13.0	-	13.0
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Poor	0.0	Poor	0.0	Excellent	5.0	Excellent	5.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Fair	1.3	Fair	1.3	Excellent	4.0	Excellent	4.0
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Good	3.3	Excellent	5.0
	Remaining Service Life	5.0	3.3	1.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0	Poor	0.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	12.3	-	12.3	-	18.3	-	20.0	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Fair	1.3	Fair	1.3
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Excellent	6.0	Excellent	6.0	Excellent	6.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	Good	2.0	Fair	1.0	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Excellent	6.0	Good	4.0	Poor	0.0	Poor	0.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	22.7	-	19.7	-	16.3	-	16.3
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	64.0	-	61.7	-	63.3	-	65.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

					Health Index Scoring								
Element		Point Values (0-100)				37		38		39		40	
						Lima Rest Area		Lost Trail Pass Rest Area		Mosby Rest Area		Quartz Flats (East) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Good	4.7	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Poor	0.0	Excellent	7.0	Excellent	7.0	Poor	0.0
	Drainage Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Good	0.7
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Good	0.7	Fair	0.3
	Remaining Service Life	2.0	1.3	0.7	0.0	Excellent	2.0	Fair	0.7	Good	1.3	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	11.3	-	16.3	-	15.0	-	8.7
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Excellent	2.0	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Excellent	1.0
	Picnic Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Excellent	1.0	Fair	0.3
	Sidewalks	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Fair	0.7	Good	1.3
	Site Signage	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Excellent	1.0	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	7.3	-	5.3	-	6.0	-	5.3
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Excellent	1.0	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Excellent	2.0	Good	1.3
	Paint	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Poor	0.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Good	1.3
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0	Good	3.3
	Roofing	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3	Good	1.3
	SUBTOTAL	19.0	11.3	5.7	0.0	-	19.0	-	15.0	-	16.0	-	12.0
Water	Municipal System	25.0	-	-	-	Excellent	25.0	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	-	-	Excellent	5.0	Good	3.3	Excellent	5.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	-	-	Excellent	4.0	Fair	1.3	Good	2.7
	Operation & Maintenance	5.0	3.3	1.7	0.0	-	-	Good	3.3	Excellent	5.0	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	-	-	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	-	-	Fair	1.7	Good	3.3	Fair	1.7
	Remaining Service Life	5.0	3.3	1.7	0.0	-	-	Fair	1.7	Good	3.3	Excellent	5.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	25.0	-	16.7	-	17.3	-	20.3	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Excellent	4.0	Good	2.7	Good	2.7	Fair	1.3
	Wastewater Design Flow	6.0	-	-	0.0	Poor	0.0	Excellent	6.0	Excellent	6.0	Poor	0.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Fair	2.0	Good	4.0	Excellent	6.0	Fair	2.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	Excellent	3.0	Fair	1.0	Poor	0.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Excellent	6.0	Fair	2.0	Excellent	6.0	Poor	0.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	15.0	-	17.7	-	21.7	-	3.3
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	80.3	-	73.7	-	78.7	-	52.3

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

Health Index Scoring

Element		Point Values (0-100)				41		42		43	
						Quartz Flats (West) Rest Area		Raynolds Pass Rest Area		Roberts Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Poor	0.0	Excellent	7.0	Excellent	7.0
	Drainage Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	9.0	-	16.0	-	16.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Fair	0.3	Good	0.7
	Picnic Areas	1.0	0.7	0.3	0.0	Fair	0.3	Fair	0.3	Good	0.7
	Sidewalks	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Good	1.3
	Site Signage	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	5.3	-	3.7	-	5.3
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Good	1.3
	Paint	1.0	0.7	0.3	0.0	Good	0.7	Fair	0.3	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3
	Restroom Stalls	5.0	3.3	1.7	0.0	Good	3.3	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Fair	0.7
	SUBTOTAL	19.0	11.3	5.7	0.0	-	12.7	-	12.7	-	13.0
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Excellent	5.0	Poor	0.0	Poor	0.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Good	2.7	Fair	1.3	Fair	1.3
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	Good	3.3	Excellent	5.0
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	Poor	0.0	Excellent	1.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Fair	1.7	Good	3.3	Good	3.3
	Remaining Service Life	5.0	3.3	1.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	15.3	-	8.0	-	10.7	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Fair	1.3	Poor	0.0	Fair	1.3
	Wastewater Design Flow	6.0	-	-	0.0	Poor	0.0	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Fair	2.0	Excellent	6.0	Fair	2.0
	Site Constraints	3.0	2.0	1.0	0.0	Poor	0.0	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	3.3	-	15.0	-	12.3
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	48.3	-	58.0	-	60.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

Health Index Scoring

Element		Point Values (0-100)				44		45		46	
						Sweet Grass Rest Area		Teton River (North) Rest Area		Teton River (South) Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Poor	0.0	Excellent	7.0	Excellent	7.0
	Drainage Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Excellent	1.0
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Good	0.7	Excellent	1.0	Excellent	1.0
	Remaining Service Life	2.0	1.3	0.7	0.0	Fair	0.7	Poor	0.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	10.0	-	17.0	-	17.0
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Fair	0.3
	Picnic Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Sidewalks	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Site Signage	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	SUBTOTAL	8.0	5.3	2.7	0.0	-	7.0	-	7.0	-	6.7
Structure	Facility Ventilation	2.0	-	-	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Floor Condition	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Interior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3
	Paint	1.0	0.7	0.3	0.0	Excellent	1.0	Excellent	1.0	Excellent	1.0
	Remaining Service Life	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Fair	0.7
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Excellent	2.0	Excellent	2.0	Excellent	2.0
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Excellent	5.0
	Roofing	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Good	1.3	Excellent	2.0	Excellent	2.0
	SUBTOTAL	19.0	11.3	5.7	0.0	-	17.0	-	16.3	-	16.3
Water	Municipal System	25.0	-	-	-	Excellent	25.0	Excellent	25.0	Excellent	25.0
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	-	-	-	-	-	-
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	-	-	-	-	-	-
	Operation & Maintenance	5.0	3.3	1.7	0.0	-	-	-	-	-	-
	Backflow Prevention	1.0	-	-	0.0	-	-	-	-	-	-
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	-	-	-	-	-	-
	Remaining Service Life	5.0	3.3	1.7	0.0	-	-	-	-	-	-
SUBTOTAL	25.0	16.0	8.0	0.0	-	25.0	-	25.0	-	25.0	
Wastewater	Municipal System	25.0	-	-	-	Excellent	25.0	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	-	-	Fair	1.3	Fair	1.3
	Wastewater Design Flow	6.0	-	-	0.0	-	-	Excellent	6.0	Excellent	6.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	-	-	Excellent	6.0	Excellent	6.0
	Site Constraints	3.0	2.0	1.0	0.0	-	-	Excellent	3.0	Excellent	3.0
	Remaining Service Life	6.0	4.0	2.0	0.0	-	-	Excellent	6.0	Excellent	6.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	25.0	-	22.3	-	22.3
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Excellent	4.0	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	4.0	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	88.0	-	90.3	-	90.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

Health Index Scoring

Element		Point Values (0-100)				47		48		49	
						Troy Rest Area		Vandalia Rest Area		Vista Point Rest Area	
		Excellent	Good	Fair	Poor	Value	Score	Value	Score	Value	Score
Parking	Passenger Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Good	4.7
	Oversized Vehicle Parking Stalls	7.0	4.7	2.3	0.0	Excellent	7.0	Excellent	7.0	Excellent	7.0
	Drainage Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Fair	0.3
	Pavement Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	Pavement Striping Quality	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	SUBTOTAL	19.0	12.7	6.3	0.0	-	16.3	-	16.0	-	13.3
Site	Exterior Lighting	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Poor	0.0
	Landscaping/Lawn Areas	1.0	0.7	0.3	0.0	Excellent	1.0	Fair	0.3	Good	0.7
	Picnic Areas	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Poor	0.0
	Sidewalks	2.0	1.3	0.7	0.0	Good	1.3	Fair	0.7	Fair	0.7
	Site Signage	1.0	0.7	0.3	0.0	Excellent	1.0	Fair	0.3	Good	0.7
	Exterior Waste Receptacles	1.0	0.7	0.3	0.0	Excellent	1.0	Good	0.7	Good	0.7
	SUBTOTAL	8.0	5.3	2.7	0.0	-	7.0	-	4.0	-	2.7
Structure	Facility Ventilation	2.0	-	-	0.0	Poor	0.0	Excellent	2.0	Poor	0.0
	Floor Condition	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	Interior Lighting	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Poor	0.0
	Paint	1.0	0.7	0.3	0.0	Good	0.7	Good	0.7	Good	0.7
	Remaining Service Life	2.0	1.3	0.7	0.0	Fair	0.7	Poor	0.0	Good	1.3
	Restroom Plumbing Fixtures	2.0	1.3	0.7	0.0	Fair	0.7	Good	1.3	Poor	0.0
	Restroom Stalls	5.0	3.3	1.7	0.0	Excellent	5.0	Excellent	5.0	Poor	0.0
	Roofing	2.0	1.3	0.7	0.0	Good	1.3	Good	1.3	Good	1.3
	Siding	2.0	1.3	0.7	0.0	Excellent	2.0	Good	1.3	Good	1.3
	SUBTOTAL	19.0	11.3	5.7	0.0	-	12.3	-	13.7	-	5.3
Water	Municipal System	25.0	-	-	-	-	-	-	-	-	-
	Source Capability to Meet Peak Daily Demand	5.0	3.3	1.7	0.0	Excellent	5.0	Poor	0.0	Poor	0.0
	Storage Capability to Meet Peak Instantaneous Demand	4.0	2.7	1.3	0.0	Fair	1.3	Fair	1.3	Poor	0.0
	Operation & Maintenance	5.0	3.3	1.7	0.0	Excellent	5.0	Good	3.3	Poor	0.0
	Backflow Prevention	1.0	-	-	0.0	Excellent	1.0	Excellent	1.0	Poor	0.0
	Source Quality (Transient Non-Community Stds.)	5.0	3.3	1.7	0.0	Excellent	5.0	Good	3.3	Poor	0.0
	Remaining Service Life	5.0	3.3	1.7	0.0	Poor	0.0	Poor	0.0	Poor	0.0
SUBTOTAL	25.0	16.0	8.0	0.0	-	17.3	-	9.0	-	0.0	
Wastewater	Municipal System	25.0	-	-	-	-	-	-	-	-	-
	Treatment System	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Poor	0.0
	Wastewater Design Flow	6.0	-	-	0.0	Excellent	6.0	Excellent	6.0	Poor	0.0
	Operation & Maintenance	6.0	4.0	2.0	0.0	Good	4.0	Fair	2.0	Poor	0.0
	Site Constraints	3.0	2.0	1.0	0.0	Excellent	3.0	Excellent	3.0	Poor	0.0
	Remaining Service Life	6.0	4.0	2.0	0.0	Poor	0.0	Poor	0.0	Poor	0.0
	SUBTOTAL	25.0	12.7	6.3	0.0	-	15.7	-	13.7	-	0.0
Amenities	Number of Amenities	4.0	2.7	1.3	0.0	Good	2.7	Good	2.7	Good	2.7
	SUBTOTAL	4.0	2.7	1.3	0.0	-	2.7	-	2.7	-	2.7
TOTAL		100.0	60.7	30.3	0.0	-	71.3	-	59.0	-	24.0

Note: Scores for Bearmouth and Greycliff assume excellent condition (rest area under construction at time of 2013 inventory).

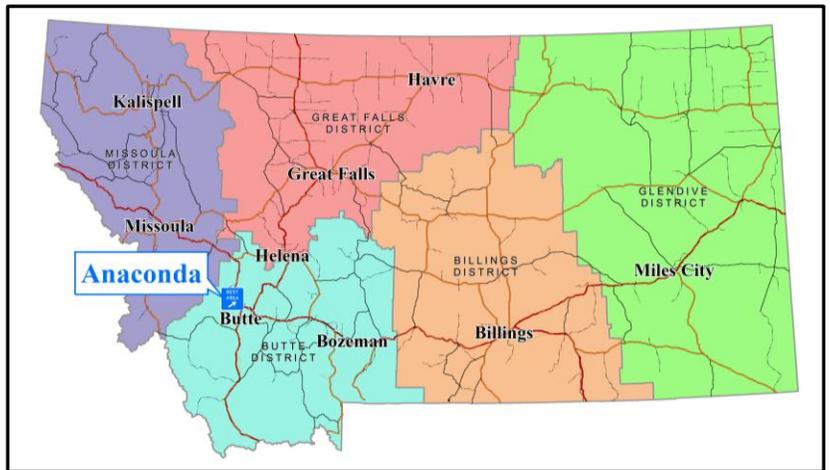
Attachment 11

SUMMARY SHEETS

SRA-1

Date: February 28, 2014

Name: Anaconda Rest Area
Route: MT 1 (P-19)
Direction: East
Reference Post: 000+0.727
Year Built: 2008
Jurisdiction: District 2 - Butte
Maintenance: State Site
AADT (2011): 9040
Health Index: 75.00



Map Number: SRA-1

Facility: Anaconda

Year Constructed/Reconstructed: 2008

Facility Age (years): 6

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 27

Number of Oversized Vehicle Stalls: 15

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 5

Number of Restroom Stalls (Men): 5

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: Yes

Wi-Fi: No

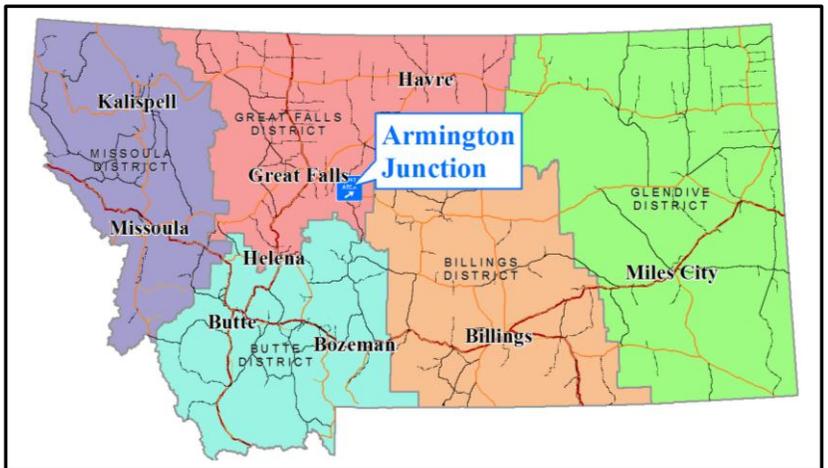
Future Considerations:

- Number of Oversized Vehicle Parking Stalls

SRA-2

Date: February 28, 2014

Name: Armington Junction Rest Area
Route: US 87 & US 89 (N-60)
Direction: West
Reference Post: 071+0.078
Year Built: 1967
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 2600
Health Index: 69.67



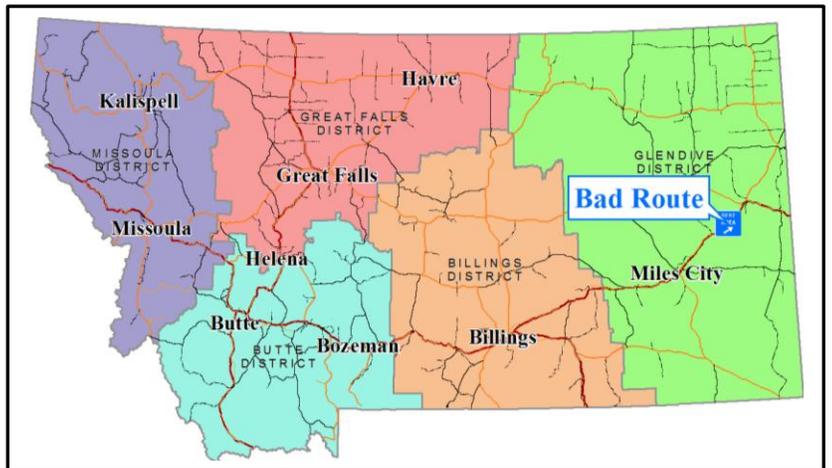
Map Number:	SRA-2
Facility:	Armington Junction
Year Constructed/Reconstructed:	1967
Facility Age (years):	47
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	12
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet Peak Daily Demand

SRA-3

Date: February 28, 2014

Name: Bad Route Rest Area
Route: I-94
Direction: East
Reference Post: 192+0.549
Year Built: 1973
Jurisdiction: District 4 – Glendive
Maintenance: State Site
AADT (2011): 4280
Health Index: 65.00



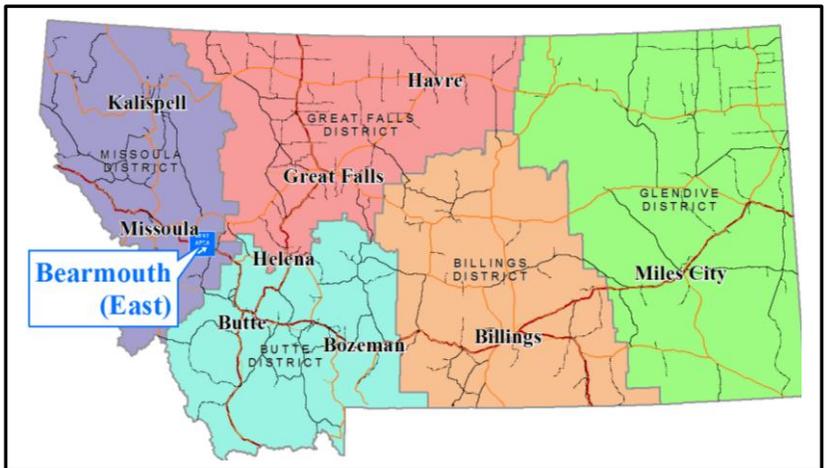
Map Number:	SRA-3
Facility:	Bad Route
Year Constructed/Reconstructed:	1973
Facility Age (years):	41
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	36
Number of Oversized Vehicle Stalls:	13
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Water System

SRA-4

Date: February 28, 2014

Name: Bearmouth (East) Rest Area
Route: I-90
Direction: East
Reference Post: 143+0.000
Year Built: 2013
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 8110
Health Index: 100.00



Map Number: SRA-4

Facility: Bearmouth (East)

Year Constructed/Reconstructed: 2014

Facility Age (years): 0

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 30

Number of Oversized Vehicle Stalls: 12

Telephone: Yes

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 3

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: Yes

Hand Dryers: Yes

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: Yes

Wi-Fi: Yes

Future Considerations:

- None

SRA-5

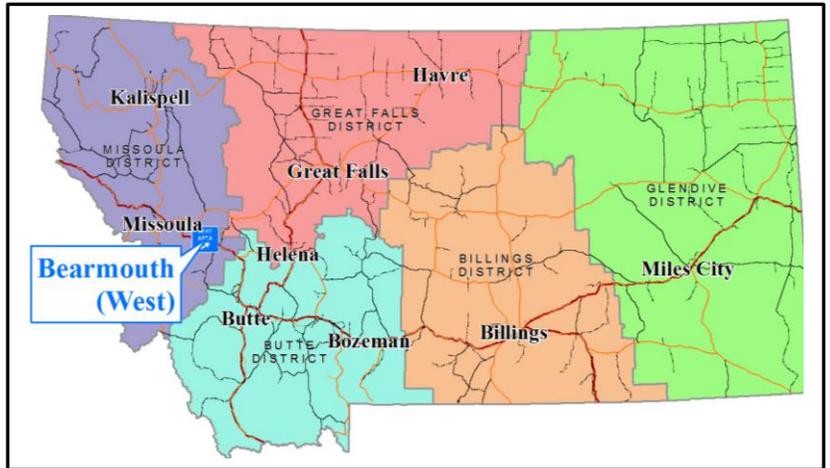
Date: February 28, 2014

Name:	Bearmouth (West) Rest Area
Route:	I-90
Direction:	West
Reference Post:	142+0.662
Year Built:	2013
Jurisdiction:	District 1 - Missoula
Maintenance:	State Site
AADT (2011):	8110
Health Index:	100.00

Map Number:	SRA-5
Facility:	Bearmouth (West)
Year Constructed/Reconstructed:	2014
Facility Age (years):	0
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	33
Number of Oversized Vehicle Stalls:	11
Telephone:	Yes
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	Yes
Hand Dryers:	Yes
Advanced WW Treatment:	Yes
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	Yes
Wi-Fi:	Yes

Future Considerations:

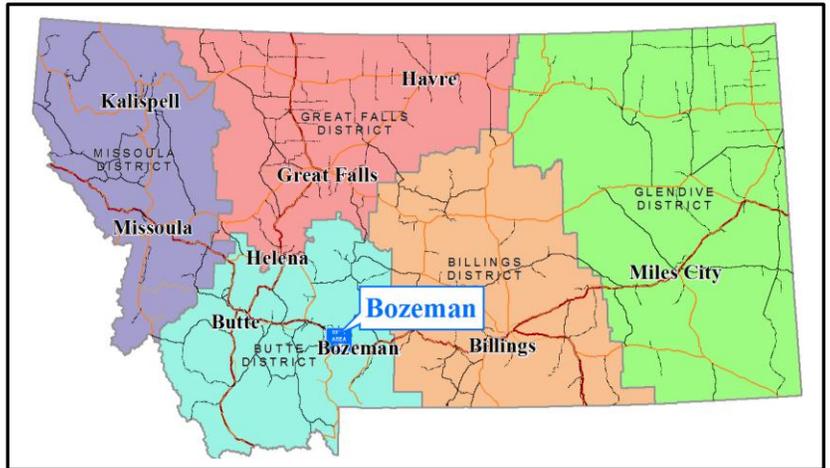
- None



SRA-6

Date: February 28, 2014

Name: Bozeman Rest Area
Route: I-90
Direction: East
Reference Post: 305+0.410
Year Built: 2000
Jurisdiction: District 2 - Butte
Maintenance: State Site
AADT (2011): 20400
Health Index: 81.67



Map Number: SRA-6

Facility: Bozeman

Year Constructed/Reconstructed: 2000

Facility Age (years): 14

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 26

Number of Oversized Vehicle Stalls: 10

Telephone: Yes

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 7

Number of Restroom Stalls (Men): 6

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: Yes

Municipal Wastewater: Yes

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: Yes

Wi-Fi: No

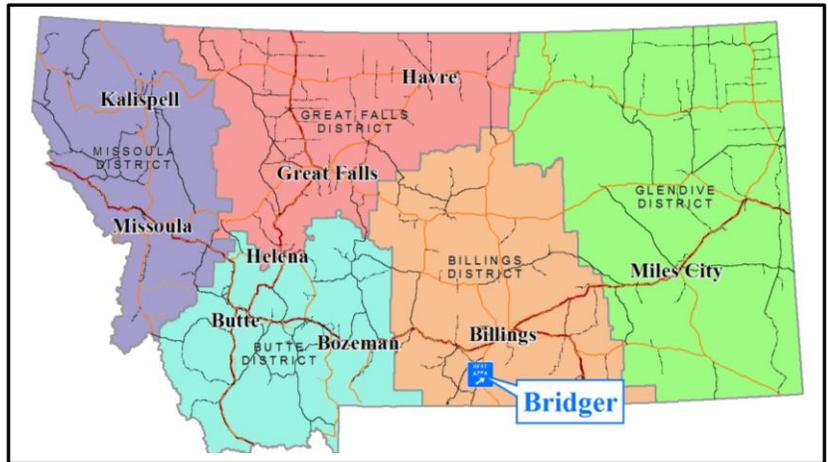
Future Considerations:

- Number of Oversized Vehicle Parking Stalls

SRA-7

Date: February 28, 2014

Name: Bridger Rest Area
Route: Hwy 310 (N-4)
Direction: North
Reference Post: 029+0.102
Year Built: 1967
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 5610
Health Index: 41.67



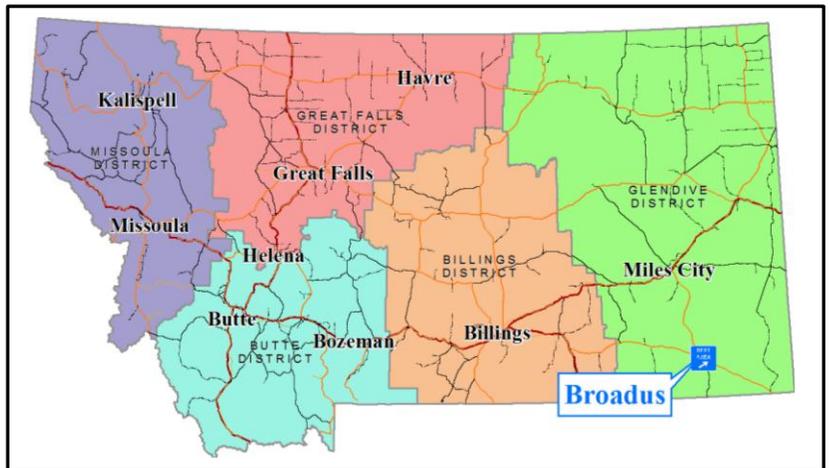
Map Number:	SRA-7
Facility:	Bridger
Year Constructed/Reconstructed:	1989
Facility Age (years):	25
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	5
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Passenger Vehicle Parking Stalls
 - Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Source Capability to Meet Peak Daily Demand
 - Wastewater Design Flow
 - Remaining Service Life for Wastewater System

SRA-8

Date: February 28, 2014

Name: Broadus Rest Area
Route: US 212 (N-23)
Direction: South
Reference Post: 081+0.009
Year Built: 1987
Jurisdiction: District 4 - Glendive
Maintenance: State Site
AADT (2011): 2080
Health Index: 82.33



Map Number: SRA-8

Facility: Broadus

Year Constructed/Reconstructed: 1987

Facility Age (years): 27

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 9

Number of Oversized Vehicle Stalls: 14

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 2

Number of Restroom Stalls (Men): 2

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Water System

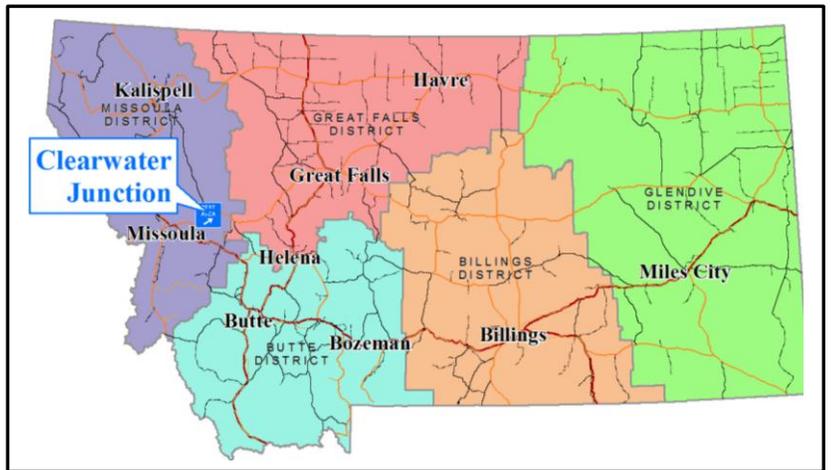
SRA-9

Date: February 28, 2014

Name: Clearwater Junction Rest Area
Route: MT 200 (N-24)
Direction: East
Reference Post: 031+0.955
Year Built: 1999
Jurisdiction: District 1 - Missoula
Maintenance: State Site
AADT (2011): 2580
Health Index: 72.33



Clearwater Junction

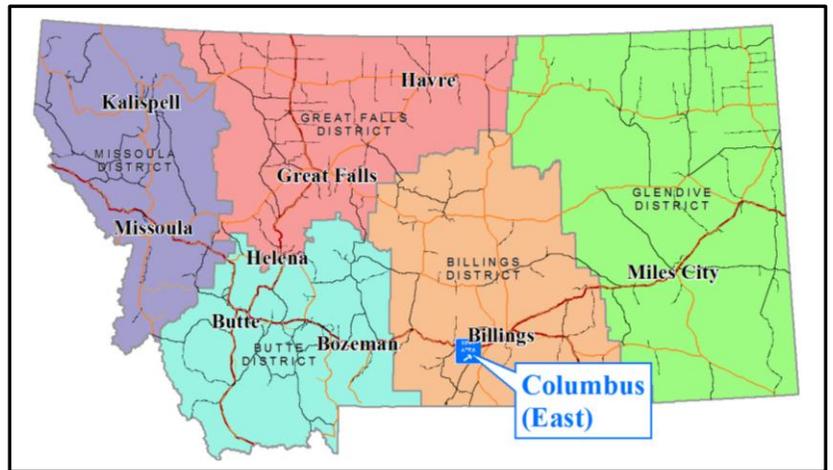


Map Number:	SRA-9
Facility:	Clearwater Junction
Year Constructed/Reconstructed:	1999
Facility Age (years):	15
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	26
Number of Oversized Vehicle Stalls:	14
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-10 Date: February 28, 2014

Name: Columbus (East) Rest Area
Route: I-90
Direction: East
Reference Post: 418+0.843
Year Built: 1970
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 9860
Health Index: 63.33

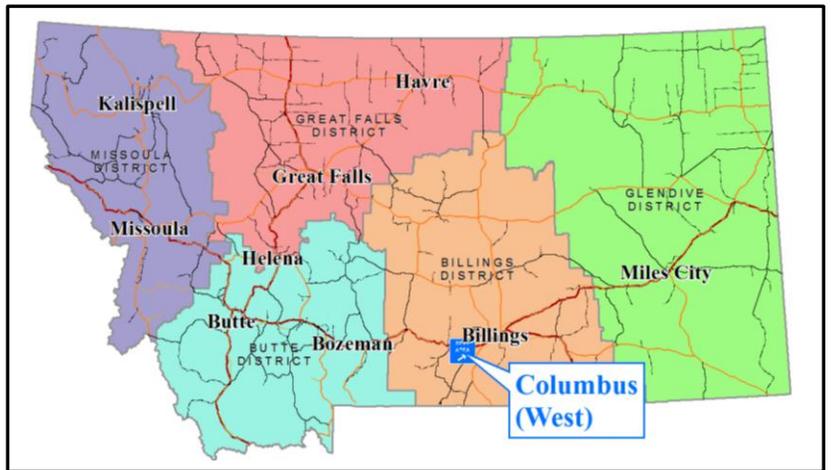
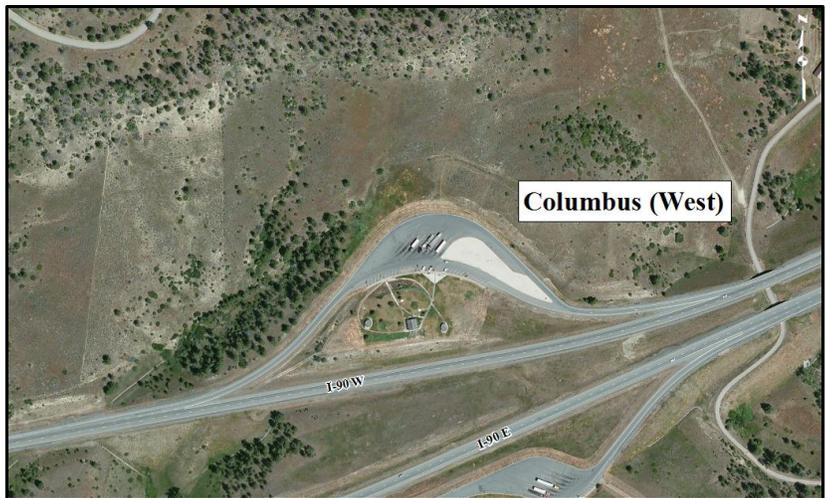


Map Number:	SRA-10
Facility:	Columbus (East)
Year Constructed/Reconstructed:	1972
Facility Age (years):	42
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	35
Number of Oversized Vehicle Stalls:	8
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Wastewater System

SRA-11 Date: February 28, 2014

Name: Columbus (West) Rest Area
Route: I-90
Direction: West
Reference Post: 418+0.807
Year Built: 1970
Jurisdiction: District 5 – Billings
Maintenance: State Site
AADT (2011): 9860
Health Index: 64.67

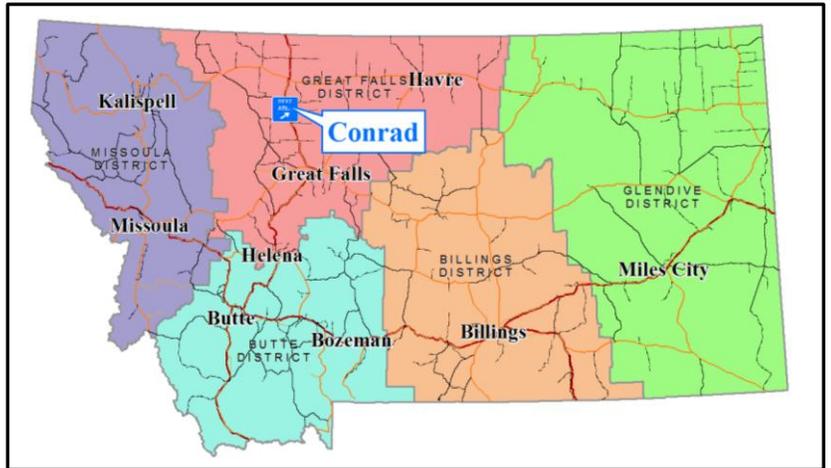


Map Number:	SRA-11
Facility:	Columbus (West)
Year Constructed/Reconstructed:	1972
Facility Age (years):	42
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	29
Number of Oversized Vehicle Stalls:	8
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Wastewater System

SRA-12 Date: February 28, 2014

Name: Conrad Rest Area
Route: I-15
Direction: North
Reference Post: 339+0.361
Year Built: 2012
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 3630
Health Index: 100.00



Map Number: SRA-12

Facility: Conrad

Year Constructed/Reconstructed: 2012

Facility Age (years): 2

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 31

Number of Oversized Vehicle Stalls: 18

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: Yes

Municipal Wastewater: Yes

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

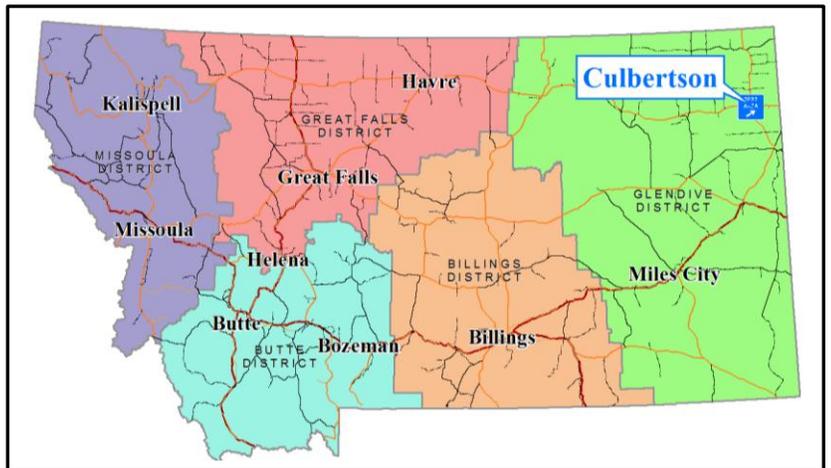
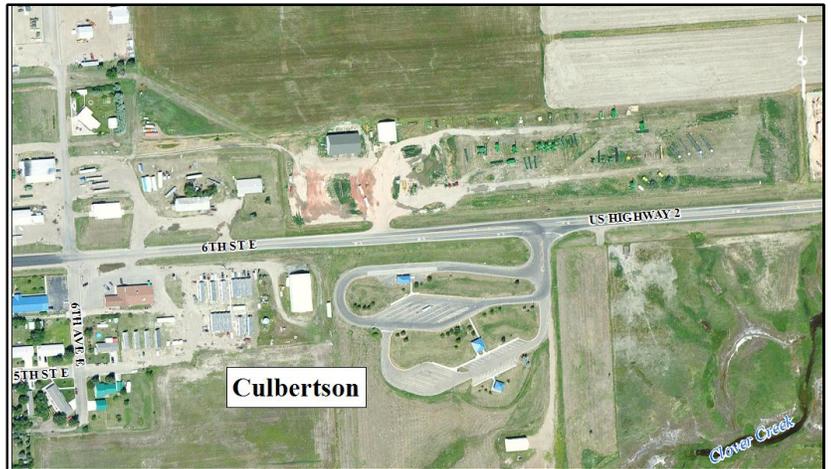
Wi-Fi: Yes

Future Considerations:

- None

SRA-13 Date: February 28, 2014

Name: Culbertson Rest Area
Route: US 2 (N-1)
Direction: East
Reference Post: 645+0.156
Year Built: 1998
Jurisdiction: District 4 - Glendive
Maintenance: State Site
AADT (2011): 2500
Health Index: 89.00



Map Number: SRA-13

Facility: Culbertson

Year Constructed/Reconstructed: 1998

Facility Age (years): 16

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 23

Number of Oversized Vehicle Stalls: 12

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 2

Number of Restroom Stalls (Men): 2

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: Yes

Municipal Wastewater: Yes

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: No

Vending Machines: No

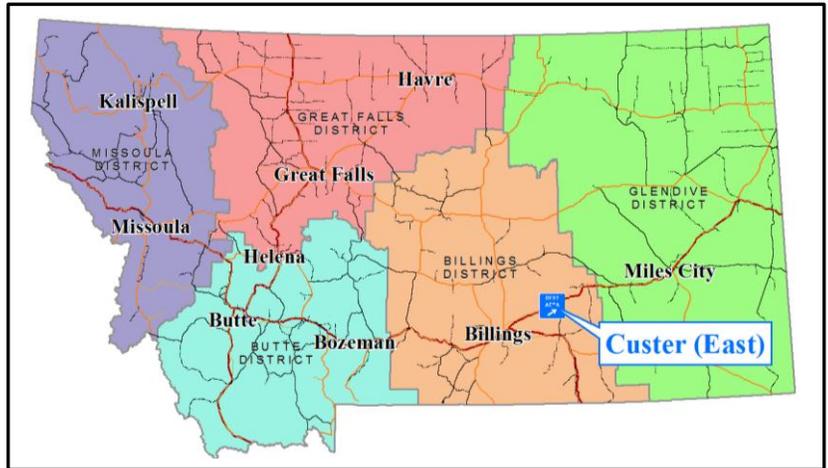
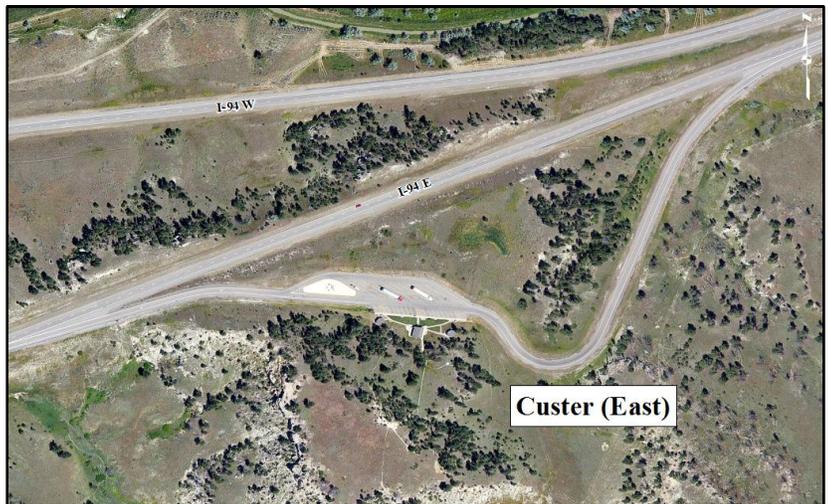
Wi-Fi: No

Future Considerations:

- Remaining Service Life for the Parking Area

SRA-14 Date: February 28, 2014

Name: Custer (East) Rest Area
Route: I-94
Direction: East
Reference Post: 038+0.234
Year Built: 1975
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 4450
Health Index: 63.00



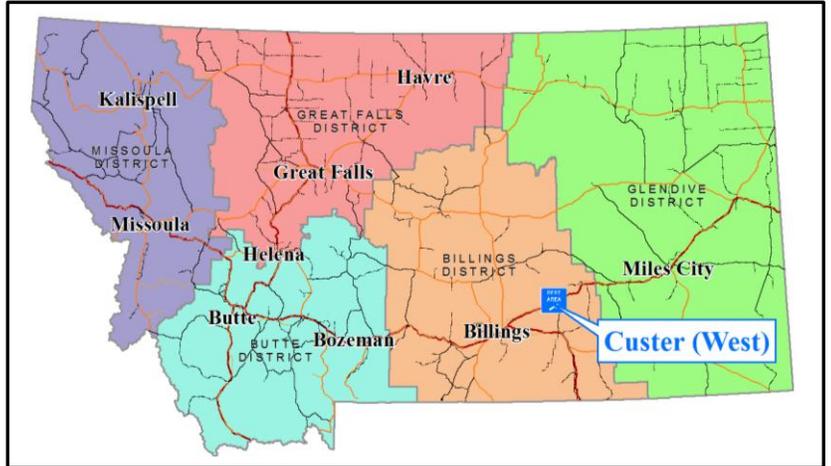
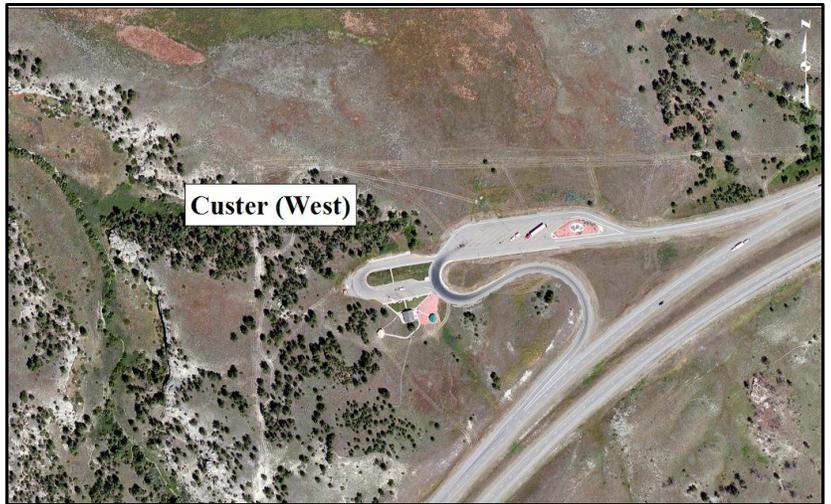
Map Number:	SRA-14
Facility:	Custer (East)
Year Constructed/Reconstructed:	1975
Facility Age (years):	39
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	14
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-15

Date: February 28, 2014

Name: Custer (West) Rest Area
Route: I-94
Direction: West
Reference Post: 041+0.258
Year Built: 1975
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 4450
Health Index: 71.67



Map Number: SRA-15

Facility: Custer (West)

Year Constructed/Reconstructed: 1975

Facility Age (years): 39

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 17

Number of Oversized Vehicle Stalls: 11

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 3

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

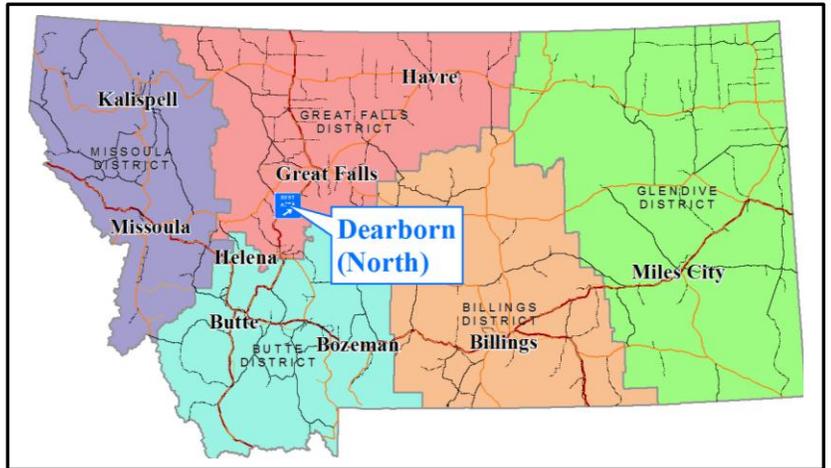
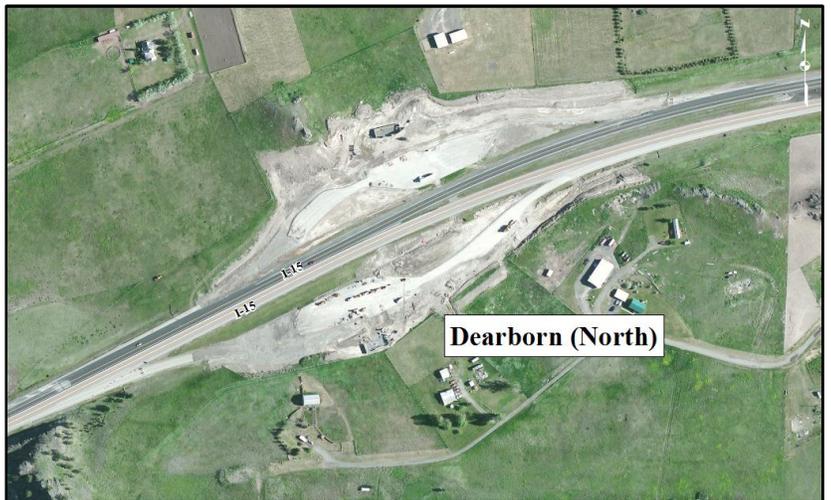
Vending Machines: No

Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-16 Date: February 28, 2014

Name: Dearborn (North) Rest Area
Route: I-15
Direction: North
Reference Post: 239+0.704
Year Built: 2012
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 3440
Health Index: 95.00



Map Number: SRA-16

Facility: Dearborn (North)

Year Constructed/Reconstructed: 2012

Facility Age (years): 2

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 20

Number of Oversized Vehicle Stalls: 24

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: Yes

Wi-Fi: No

Future Considerations:

- None

SRA-17 Date: February 28, 2014

Name: Dearborn (South) Rest Area
Route: I-15
Direction: South
Reference Post: 239+0.735
Year Built: 2012
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 3440
Health Index: 97.67



Map Number: SRA-17

Facility: Dearborn (South)

Year Constructed/Reconstructed: 2012

Facility Age (years): 2

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 20

Number of Oversized Vehicle Stalls: 24

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: Yes

Wi-Fi: No

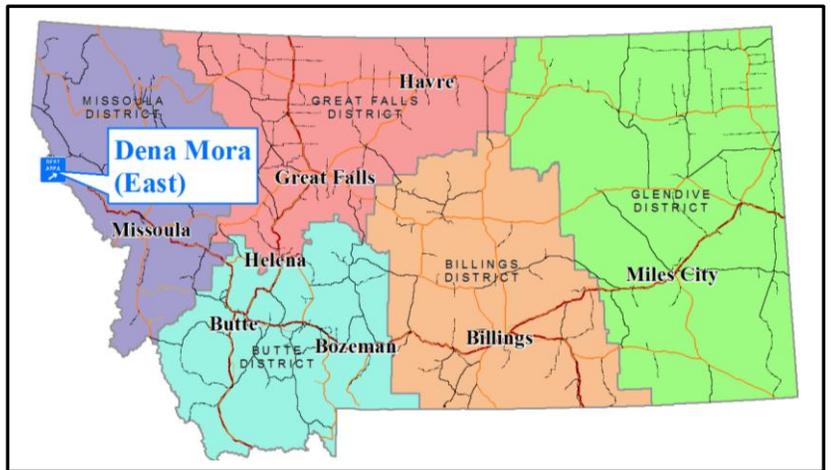
Future Considerations:

- None

SRA-18

Date: February 28, 2014

Name: Dena Mora (East) Rest Area
Route: I-90
Direction: East
Reference Post: 004+0.622
Year Built: 2004
Jurisdiction: District 1 - Missoula
Maintenance: State Site
AADT (2011): 6400
Health Index: 78.67



Map Number: SRA-18

Facility: Dena Mora (East)

Year Constructed/Reconstructed: 2004

Facility Age (years): 10

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 23

Number of Oversized Vehicle Stalls: 15

Telephone: Yes

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

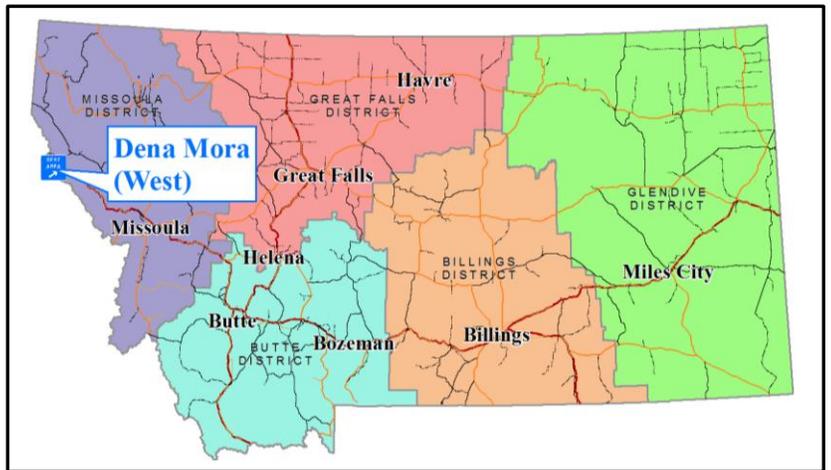
Wi-Fi: No

Future Considerations:

- Number of Oversized Vehicle Parking Stalls

SRA-19 Date: February 28, 2014

Name: Dena Mora (West) Rest Area
Route: I-90
Direction: West
Reference Post: 004+0.748
Year Built: 2004
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 6400
Health Index: 71.00



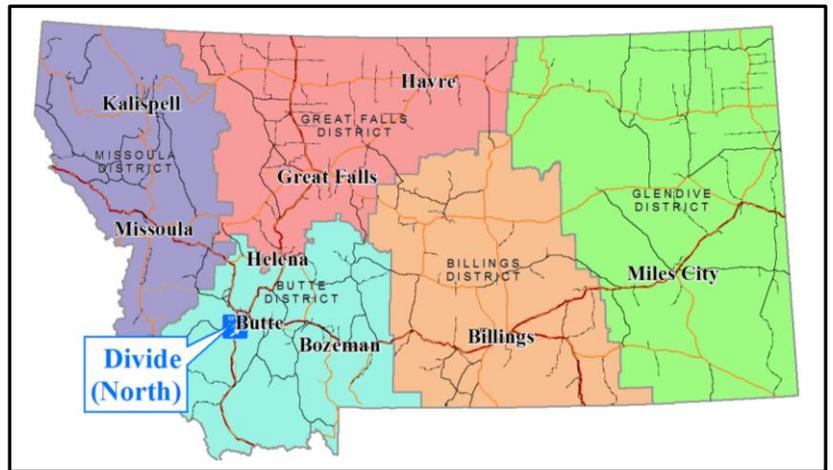
Map Number:	SRA-19
Facility:	Dena Mora (West)
Year Constructed/Reconstructed:	2004
Facility Age (years):	10
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	24
Number of Oversized Vehicle Stalls:	11
Telephone:	Yes
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	4
Number of Restroom Stalls (Men):	4
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	Yes
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

Future Considerations:

- Number of Oversized Vehicle Parking Stalls

SRA-20 Date: February 28, 2014

Name: Divide (North) Rest Area
Route: I-15
Direction: North
Reference Post: 108+0.691
Year Built: 1977
Jurisdiction: District 2 - Butte
Maintenance: State Site
AADT (2011): 3600
Health Index: 69.67



Map Number: SRA-20

Facility: Divide (North)

Year Constructed/Reconstructed: 1977

Facility Age (years): 37

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 18

Number of Oversized Vehicle Stalls: 10

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 3

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: No

Vending Machines: No

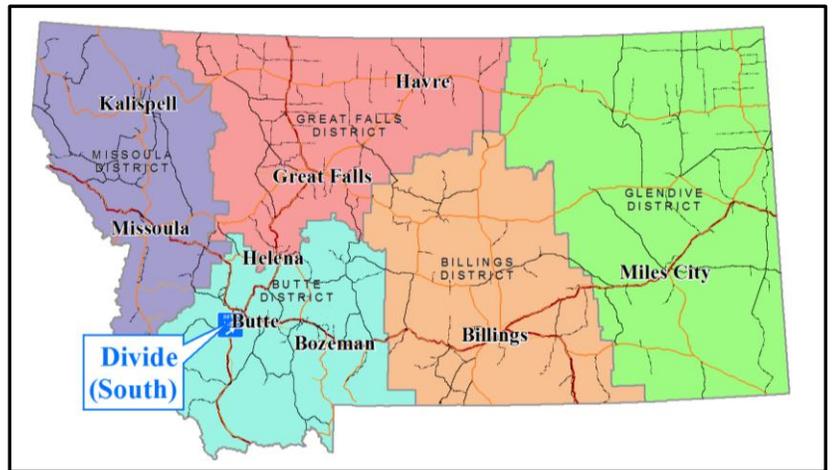
Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-21

Date: February 28, 2014

Name: Divide (South) Rest Area
Route: I-15
Direction: South
Reference Post: 108+0.735
Year Built: 1977
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 3600
Health Index: 72.67



Map Number: SRA-21

Facility: Divide (South)

Year Constructed/Reconstructed: 1977

Facility Age (years): 37

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 18

Number of Oversized Vehicle Stalls: 10

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 3

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: No

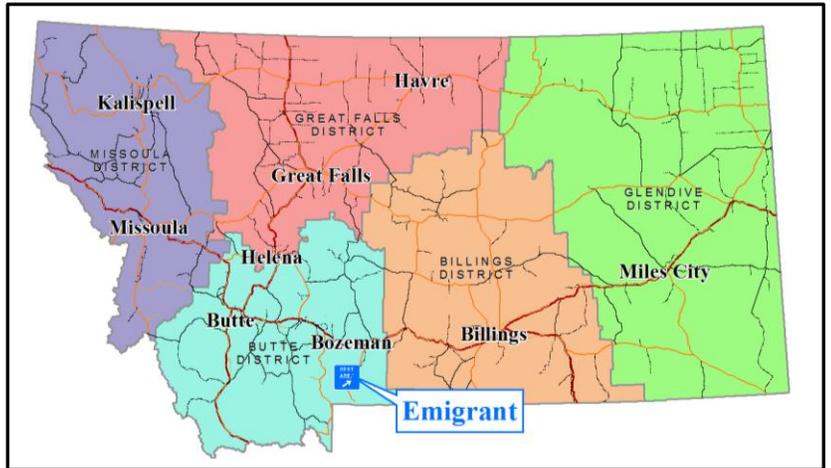
Vending Machines: No

Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-22 Date: February 28, 2014

Name: Emigrant Rest Area
Route: US 89 (N-11)
Direction: North
Reference Post: 023+0.759
Year Built: 1989
Jurisdiction: District 2 - Butte
Maintenance: State Site
AADT (2011): 1670
Health Index: 64.33



Map Number: SRA-22

Facility: Emigrant

Year Constructed/Reconstructed: 1989

Facility Age (years): 25

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 20

Number of Oversized Vehicle Stalls: 6

Telephone: Yes

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 3

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

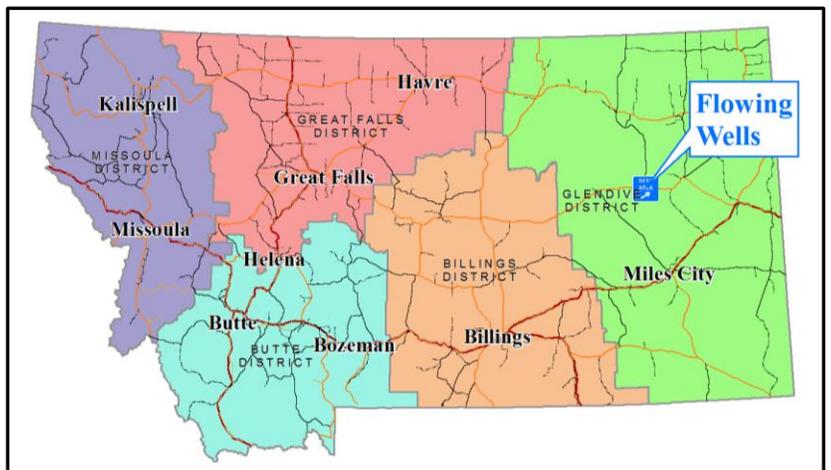
Vending Machines: No

Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-23 Date: February 28, 2014

Name: Flowing Wells Rest Area
Route: MT 200 (N-57)
Direction: East
Reference Post: 248+0.573
Year Built: 1964
Jurisdiction: District 4 - Glendive
Maintenance: State Site
AADT (2011): 330
Health Index: 65.00

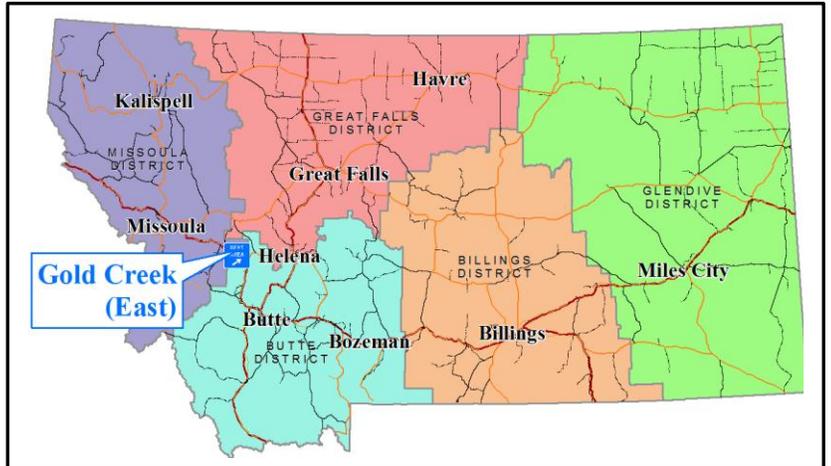


Map Number:	SRA-23
Facility:	Flowing Wells
Year Constructed/Reconstructed:	1964
Facility Age (years):	50
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	10
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Pavement Striping Quality
 - Remaining Service Life for the Parking Area
 - Site Signage
 - Remaining Service Life of the Structure

SRA-24 Date: February 28, 2014

Name: Gold Creek (East) Rest Area
Route: I-90
Direction: East
Reference Post: 169+0.402
Year Built: 1973
Jurisdiction: District 1 - Missoula
Maintenance: State Site
AADT (2011): 8050
Health Index: 52.33



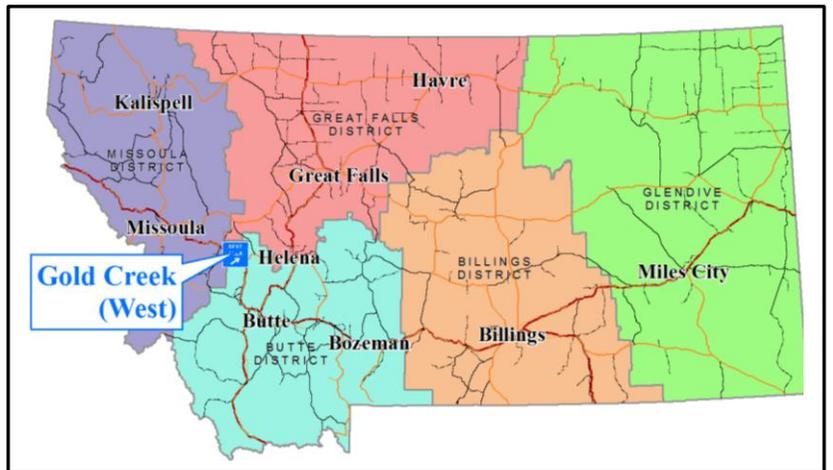
Map Number:	SRA-24
Facility:	Gold Creek (East)
Year Constructed/Reconstructed:	1973
Facility Age (years):	41
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	19
Number of Oversized Vehicle Stalls:	11
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	Yes
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

Future Considerations:

- Number of Oversized Vehicle Parking Stalls
- Remaining Service Life for the Parking Area
- Facility Ventilation
- Remaining Service Life for the Structure
- Source Capability to Meet Peak Daily Demand
- Backflow Prevention
- Remaining Service Life for the Water System
- Remaining Service Life for the Wastewater System

SRA-25 Date: February 28, 2014

Name: Gold Creek (West) Rest Area
Route: I-90
Direction: West
Reference Post: 167+0.411
Year Built: 1973
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 8050
Health Index: 48.67

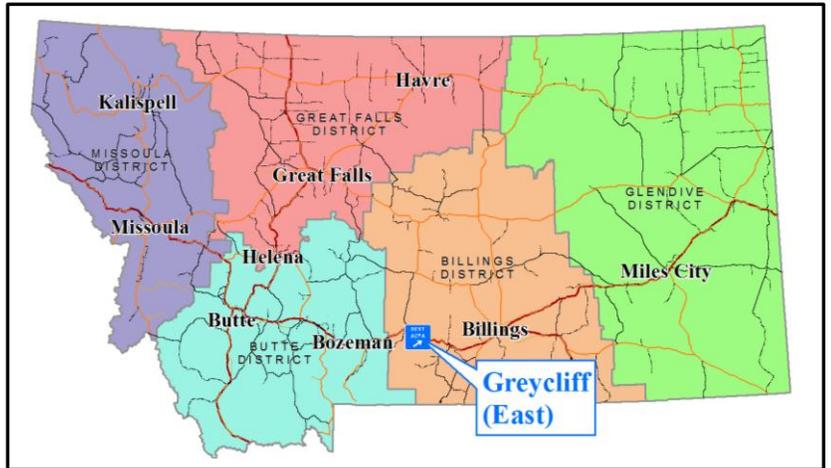


Map Number:	SRA-25
Facility:	Gold Creek (West)
Year Constructed/Reconstructed:	1973
Facility Age (years):	41
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	17
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	Yes
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Facility Ventilation
 - Remaining Service Life for the Structure
 - Source Capability to Meet Peak Daily Demand
 - Backflow Prevention
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-26 Date: February 28, 2014

Name: Greycliff (East) Rest Area
Route: I-90
Direction: East
Reference Post: 381+0.021
Year Built: 2014
Jurisdiction: District 5 – Billings
Maintenance: State Site
AADT (2011): 7830
Health Index: 100.00



Map Number: SRA-26

Facility: Greycliff (East)

Year Constructed/Reconstructed: 2014

Facility Age (years): 0

Advance Signing: Unknown

Number of Passenger Vehicle Stalls: Unknown

Number of Oversized Vehicle Stalls: Unknown

Telephone: Yes

Waste Receptacles: Unknown

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: Unknown

Flush Toilet: Unknown

Vault Toilet: Unknown

Hand Dryers: Unknown

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Unknown

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: Yes

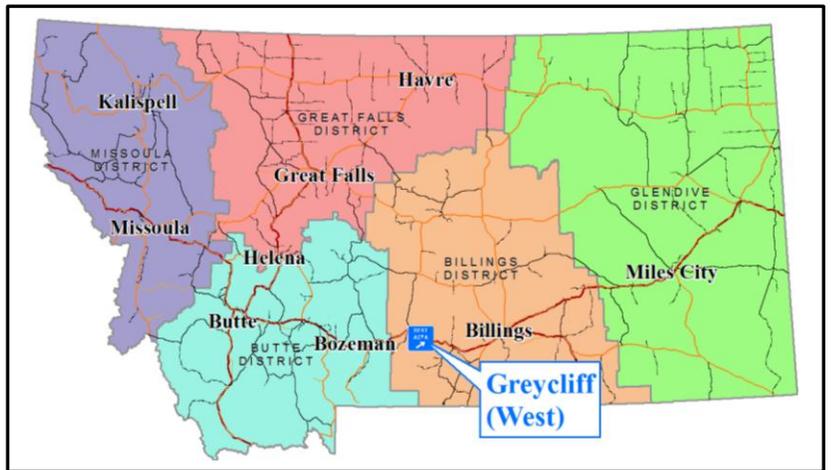
Wi-Fi: Yes

Future Considerations:

- None

SRA-27 Date: February 28, 2014

Name: Greycliff (West) Rest Area
Route: I-90
Direction: West
Reference Post: 380+0.963
Year Built: 2014
Jurisdiction: District 5 – Billings
Maintenance: State Site
AADT (2011): 7830
Health Index: 100.00



Map Number: SRA-27

Facility: Greycliff (West)

Year Constructed/Reconstructed: 2014

Facility Age (years): 0

Advance Signing: Unknown

Number of Passenger Vehicle Stalls: Unknown

Number of Oversized Vehicle Stalls: Unknown

Telephone: Yes

Waste Receptacles: Unknown

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: Unknown

Flush Toilet: Unknown

Vault Toilet: Unknown

Hand Dryers: Unknown

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Unknown

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: Yes

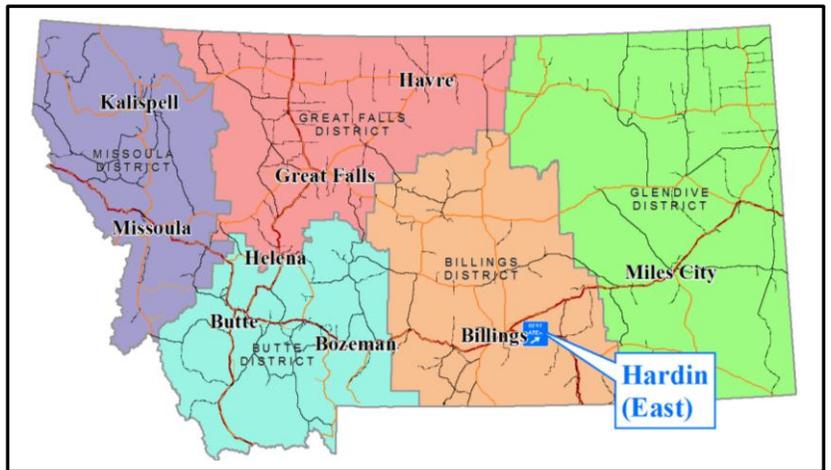
Wi-Fi: Yes

Future Considerations:

- None

SRA-28 Date: February 28, 2014

Name: Hardin (East) Rest Area
Route: I-90
Direction: East
Reference Post: 476+0.594
Year Built: 1972
Jurisdiction: District 5 – Billings
Maintenance: State Site
AADT (2011): 5750
Health Index: 67.00

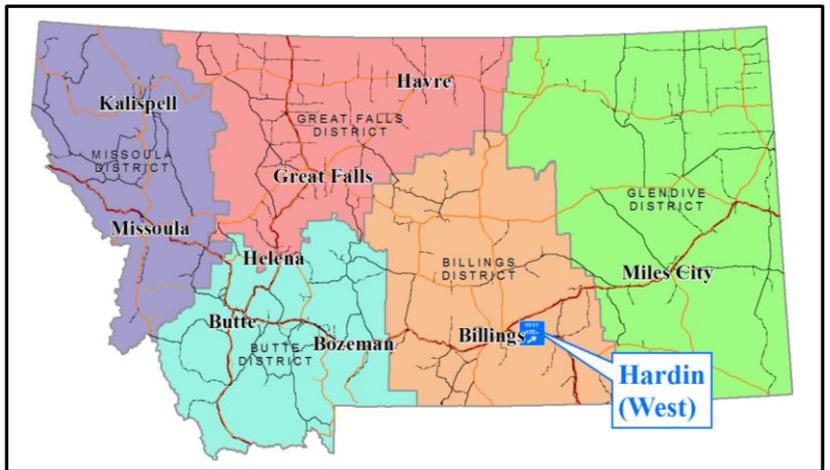


Map Number:	SRA-28
Facility:	Hardin (East)
Year Constructed/Reconstructed:	1972
Facility Age (years):	42
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	29
Number of Oversized Vehicle Stalls:	8
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet Peak Daily Demand

SRA-29 Date: February 28, 2014

Name: Hardin (West) Rest Area
Route: I-90
Direction: West
Reference Post: 476+0.463
Year Built: 1972
Jurisdiction: District 5 – Billings
Maintenance: State Site
AADT (2011): 5750
Health Index: 73.33



Map Number:	SRA-29
Facility:	Hardin (West)
Year Constructed/Reconstructed:	1972
Facility Age (years):	42
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	14
Number of Oversized Vehicle Stalls:	13
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet peak Daily Demand

SRA-30 Date: February 28, 2014

Name: Harlowton Rest Area
Route: US 12 (P-14)
Direction: East
Reference Post: 100+0.971
Year Built: 2012
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 2200
Health Index: 97.67



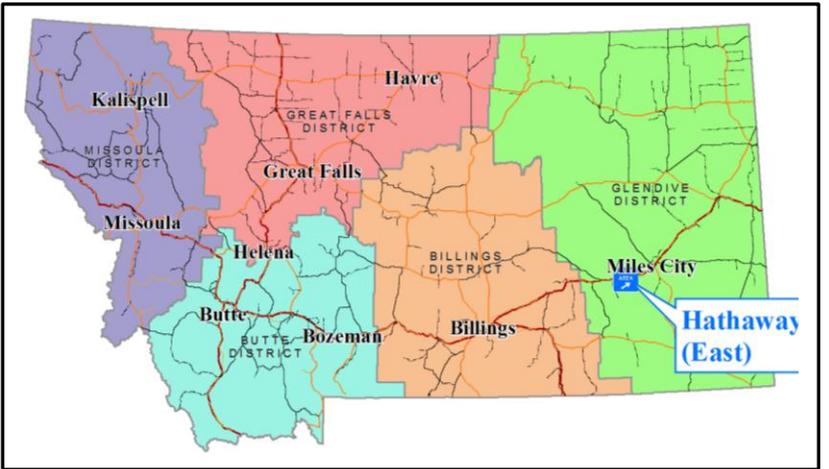
Map Number:	SRA-30
Facility:	Harlowton
Year Constructed/Reconstructed:	2012
Facility Age (years):	2
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	22
Number of Oversized Vehicle Stalls:	16
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	4
Number of Restroom Stalls (Men):	4
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

Future Considerations:

- None

SRA-31 Date: February 28, 2014

Name: Hathaway (East) Rest Area
Route: I-94
Direction: East
Reference Post: 113+0.787
Year Built: 1963
Jurisdiction: District 4 - Glendive
Maintenance: State Site
AADT (2011): 4690
Health Index: 63.67



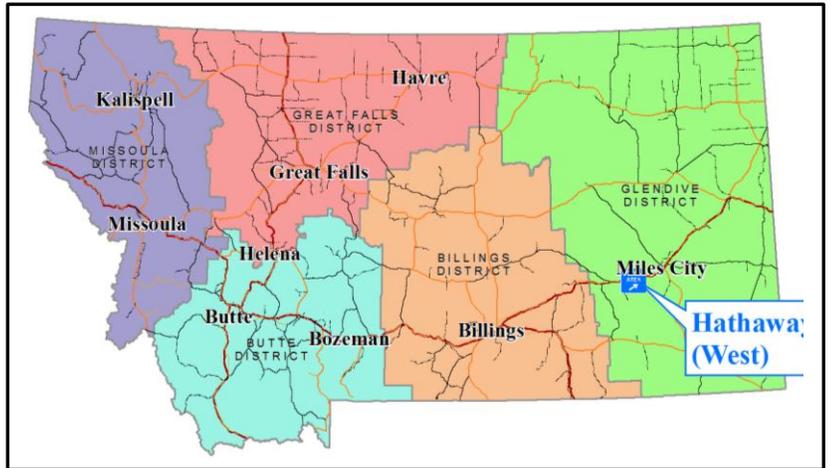
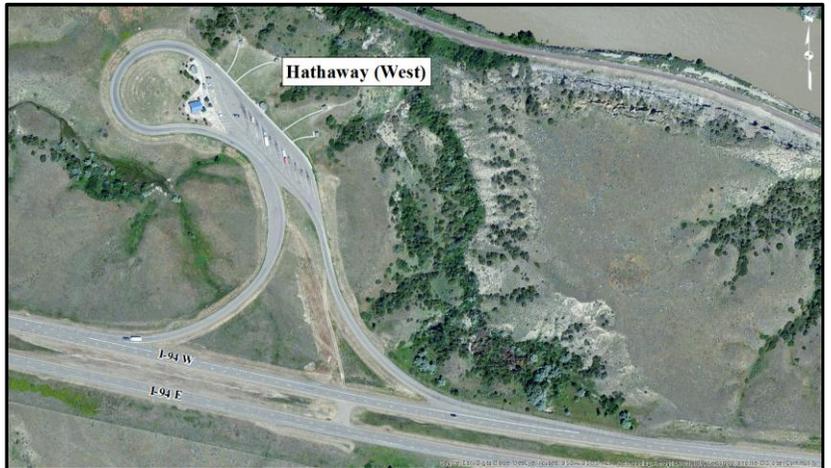
Map Number:	SRA-31
Facility:	Hathaway (East)
Year Constructed/Reconstructed:	1963
Facility Age (years):	51
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	11
Number of Oversized Vehicle Stalls:	11
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Pavement Striping Quality
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-32

Date: February 28, 2014

Name: Hathaway (West) Rest Area
Route: I-94
Direction: West
Reference Post: 112+0.400
Year Built: 1963
Jurisdiction: District 4 – Glendive
Maintenance: State Site
AADT (2011): 4690
Health Index: 68.67

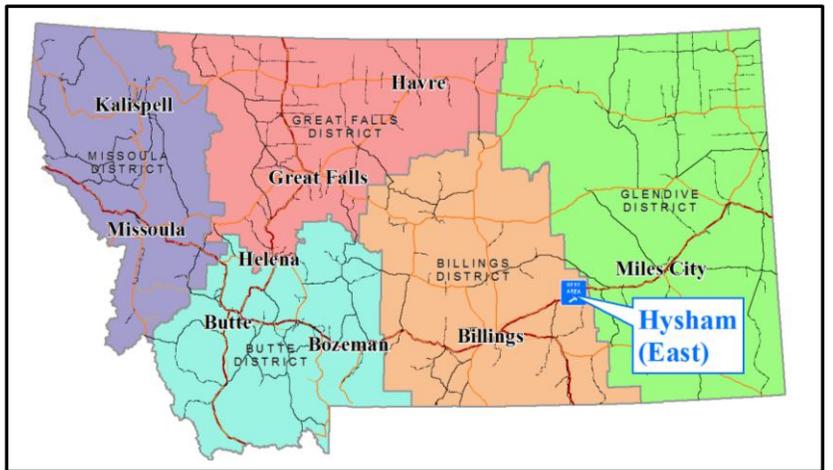


Map Number:	SRA-32
Facility:	Hathaway (West)
Year Constructed/Reconstructed:	1963
Facility Age (years):	51
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	8
Number of Oversized Vehicle Stalls:	12
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	Yes
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Wastewater System

SRA-33 Date: February 28, 2014

Name: Hysham (East) Rest Area
Route: I-94
Direction: East
Reference Post: 064+0.796
Year Built: 1967
Jurisdiction: District 4 - Glendive
Maintenance: State Site
AADT (2011): 4670
Health Index: 64.00



Map Number: SRA-33

Facility: Hysham (East)

Year Constructed/Reconstructed: 1967

Facility Age (years): 47

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 15

Number of Oversized Vehicle Stalls: 4

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

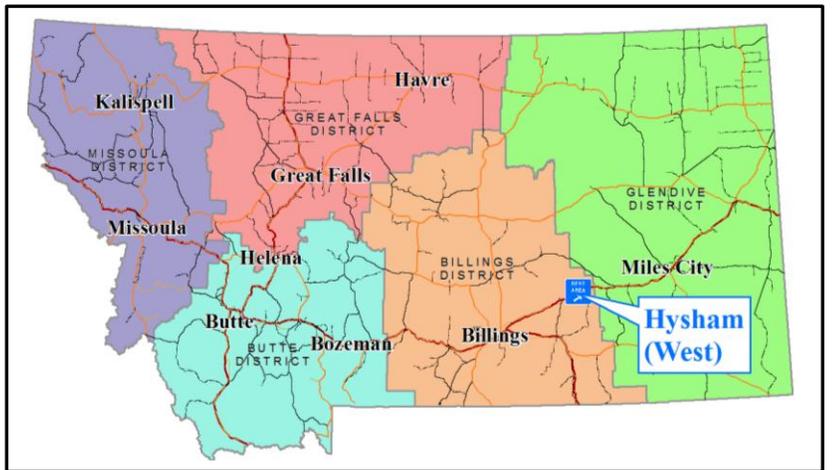
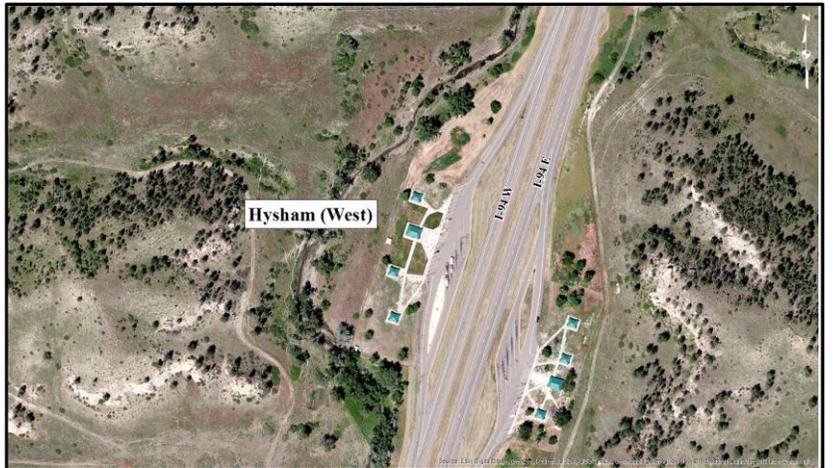
Vending Machines: No

Wi-Fi: No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet Peak Daily Demand
 - Remaining Service Life for the Water System

SRA-34 Date: February 28, 2014

Name: Hysham (West) Rest Area
Route: I-94
Direction: West
Reference Post: 064+0.847
Year Built: 1967
Jurisdiction: District 4 – Glendive
Maintenance: State Site
AADT (2011): 4670
Health Index: 61.67



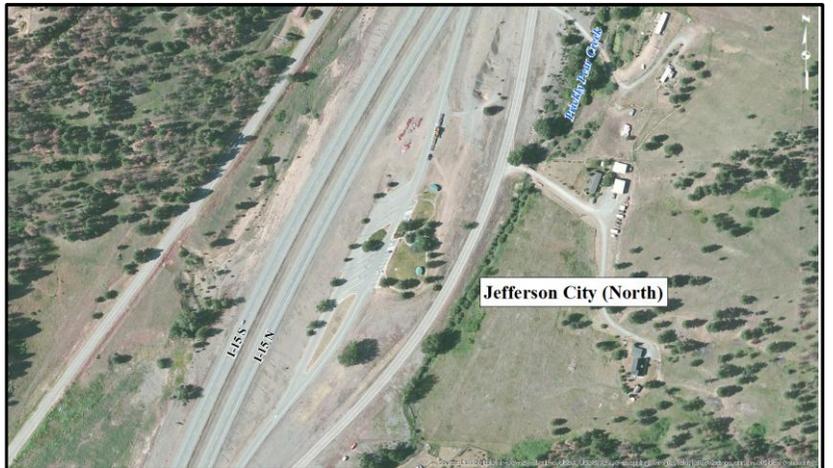
Map Number:	SRA-34
Facility:	Hysham (West)
Year Constructed/Reconstructed:	1967
Facility Age (years):	47
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	16
Number of Oversized Vehicle Stalls:	4
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	4
Number of Restroom Stalls (Men):	4
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet Peak Daily Demand
 - Remaining Service Life for the Water System

SRA-35

Date: February 28, 2014

Name: Jefferson City (North) Rest Area
Route: I-15
Direction: North
Reference Post: 177+0.506
Year Built: 1972
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 4060
Health Index: 63.33

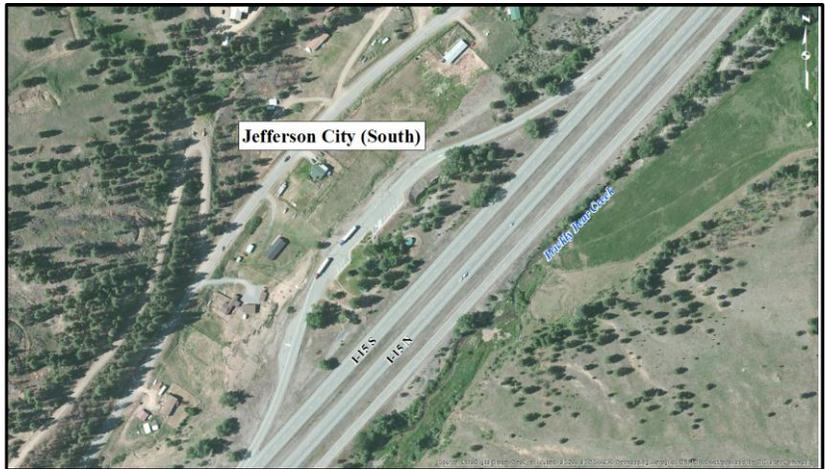


Map Number:	SRA-35
Facility:	Jefferson City (N)
Year Constructed/Reconstructed:	1972
Facility Age (years):	42
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	10
Number of Oversized Vehicle Stalls:	6
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-36 Date: February 28, 2014

Name: Jefferson City (South) Rest Area
Route: I-15
Direction: South
Reference Post: 178+0.233
Year Built: 1972
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 4060
Health Index: 65.00



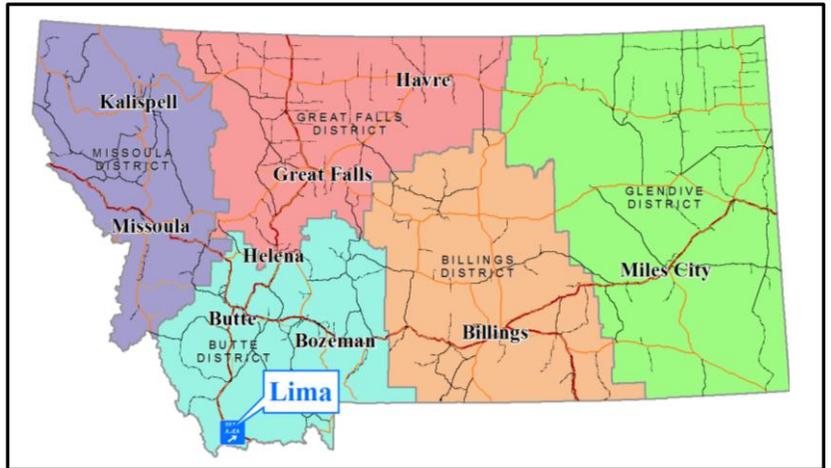
Map Number:	SRA-36
Facility:	Jefferson City (S)
Year Constructed/Reconstructed:	1972
Facility Age (years):	42
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	10
Number of Oversized Vehicle Stalls:	4
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-37

Date: February 28, 2014

Name: Lima Rest Area
Route: I-15
Direction: North
Reference Post: 015+0.219
Year Built: 2011
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 3060
Health Index: 80.33



Map Number: SRA-37

Facility: Lima

Year Constructed/Reconstructed: 2010

Facility Age (years): 4

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 28

Number of Oversized Vehicle Stalls: 19

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: Yes

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

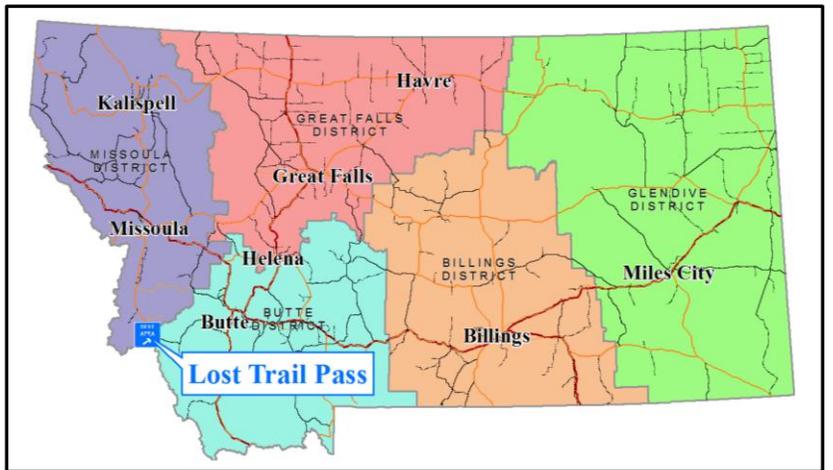
Wi-Fi: No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Wastewater Design Flow

SRA-38

Date: February 28, 2014

Name: Lost Trail Pass Rest Area
Route: US 93 (N-7)
Direction: South
Reference Post: 000+0.017
Year Built: 2001
Jurisdiction: District 1 – Missoula
Maintenance: Other Site
AADT (2011): 710
Health Index: 73.67



Map Number: SRA-38

Facility: Lost Trail Pass

Year Constructed/Reconstructed: 2001

Facility Age (years): 13

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 21

Number of Oversized Vehicle Stalls: 6

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 3

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

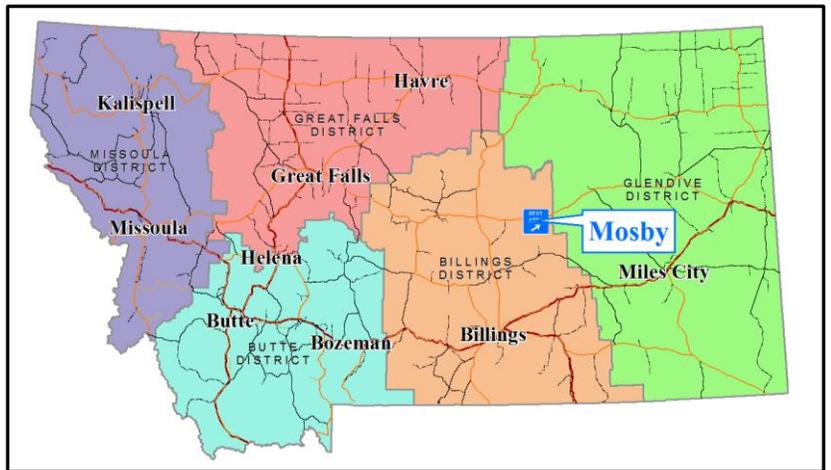
Wi-Fi: No

Future Considerations:

- None

SRA-39 Date: February 28, 2014

Name: Mosby Rest Area
Route: MT 200 (N-57)
Direction: East
Reference Post: 159+0.810
Year Built: 2005
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 570
Health Index: 78.67



Map Number: SRA-39

Facility: Mosby

Year Constructed/Reconstructed: 2005

Facility Age (years): 9

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 9

Number of Oversized Vehicle Stalls: 6

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: No

Designated Pet Area: Yes

Vending Machines: No

Wi-Fi: No

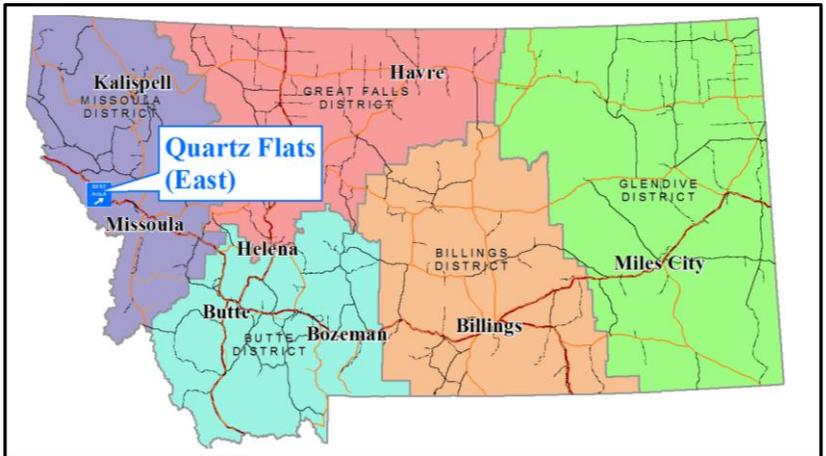
Future Considerations:

- None

SRA-40

Date: February 28, 2014

Name: Quartz Flats (East) Rest Area
Route: I-90
Direction: East
Reference Post: 058+0.027
Year Built: 1967
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 6280
Health Index: 52.33

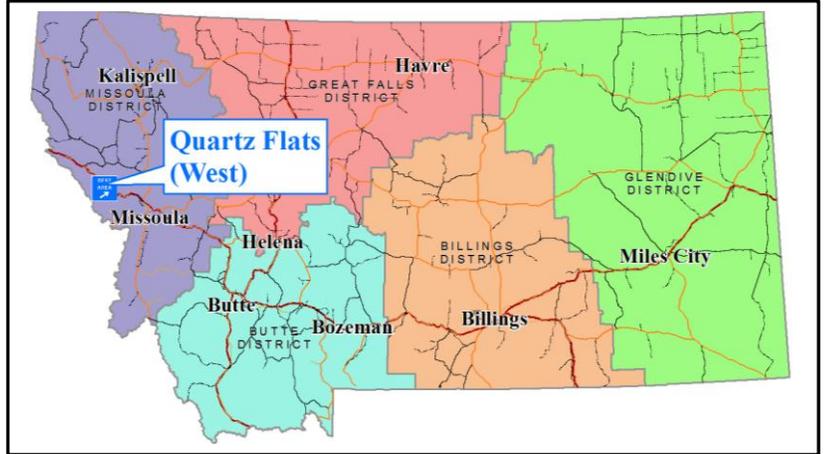
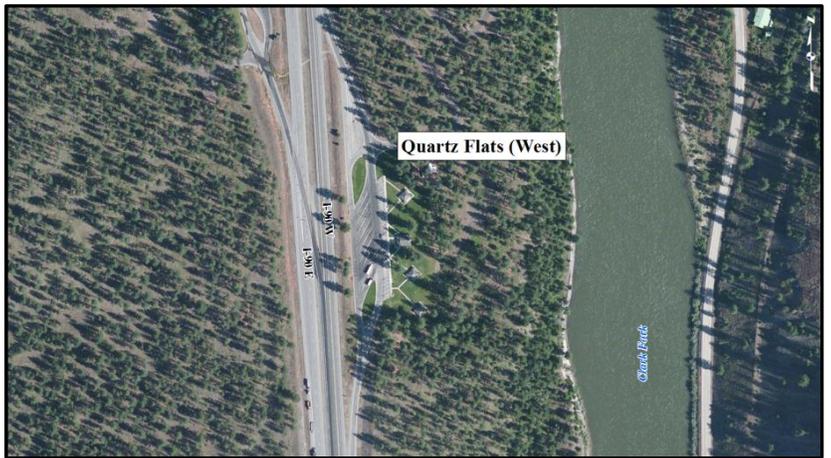


Map Number:	SRA-40
Facility:	Quarts Flats (East)
Year Constructed/Reconstructed:	1967
Facility Age (years):	47
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	26
Number of Oversized Vehicle Stalls:	11
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	4
Number of Restroom Stalls (Men):	4
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	Yes
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Wastewater Design Flow
 - Drain Field Site Constraints
 - Remaining Service Life for the Wastewater System

SRA-41 Date: February 28, 2014

Name: Quartz Flats (West) Rest Area
Route: I-90
Direction: West
Reference Post: 058+0.219
Year Built: 1967
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 6280
Health Index: 48.33

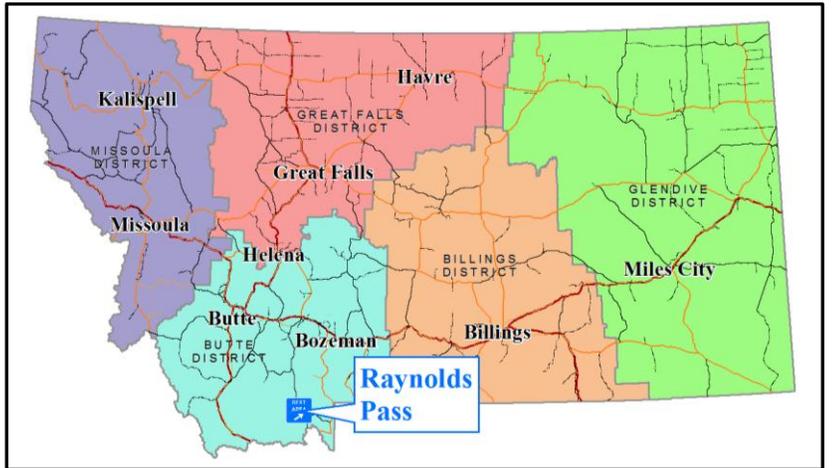


Map Number:	SRA-41
Facility:	Quartz Flats (W)
Year Constructed/Reconstructed:	1967
Facility Age (years):	47
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	25
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	4
Number of Restroom Stalls (Men):	4
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	Yes
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Number of Oversized Vehicle Parking Stalls
 - Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Remaining Service Life for the Water System
 - Wastewater Design Flow
 - Drain Field Site Constraints
 - Remaining Service Life for the Wastewater System

SRA-42 Date: February 28, 2014

Name: Reynolds Pass Rest Area
Route: US 287 (P-13)
Direction: South
Reference Post: 015+0.877
Year Built: 1969
Jurisdiction: District 2 - Butte
Maintenance: State Site
AADT (2011): 950
Health Index: 58.00



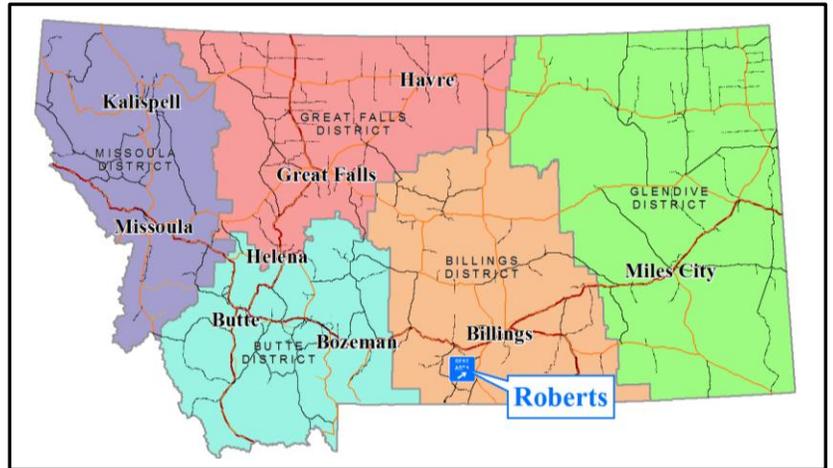
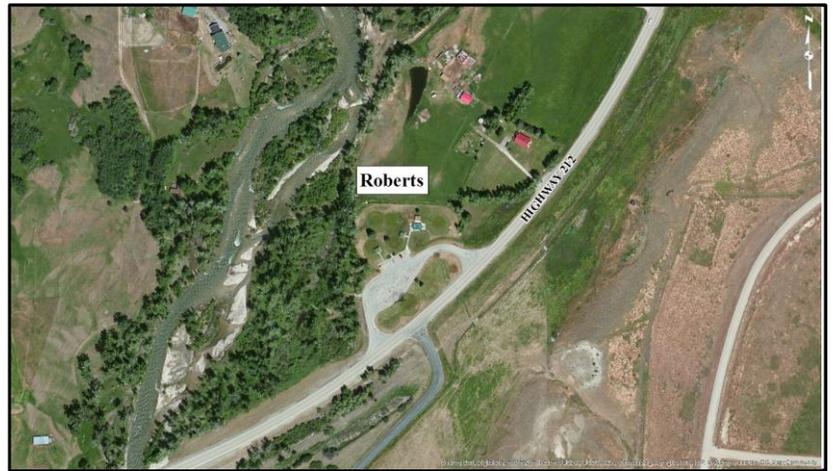
Map Number:	SRA-42
Facility:	Reynolds Pass
Year Constructed/Reconstructed:	1969
Facility Age (years):	45
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	11
Number of Oversized Vehicle Stalls:	9
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced W Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet peak Daily Demand
 - Backflow Prevention
 - Remaining Service Life for the Water System
 - Wastewater Treatment System
 - Remaining Service Life for the Wastewater System

SRA-43

Date: February 28, 2014

Name: Roberts Rest Area
Route: US 212 (P-28)
Direction: South
Reference Post: 084+0.590
Year Built: 1968
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 2630
Health Index: 60.00



Map Number: SRA-43

Facility: Roberts

Year Constructed/Reconstructed: 1968

Facility Age (years): 46

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 8

Number of Oversized Vehicle Stalls: 5

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 2

Number of Restroom Stalls (Men): 2

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

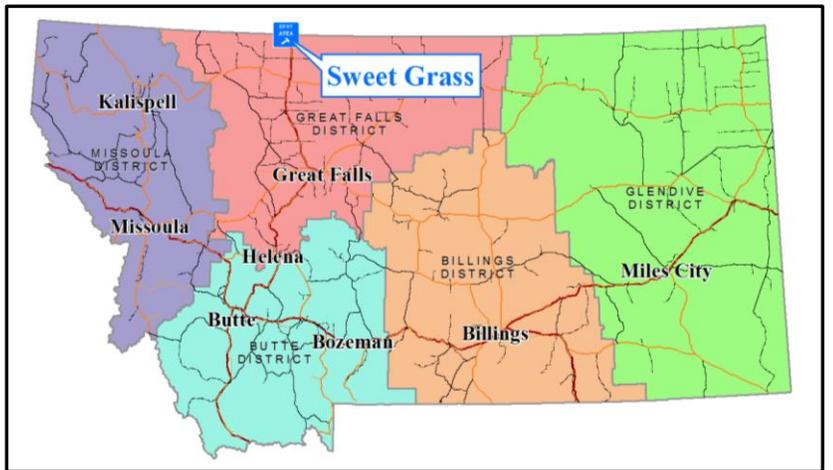
Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet Peak Daily Demand
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-44

Date: February 28, 2014

Name: Sweet Grass Rest Area
Route: I-15
Direction: South
Reference Post: 397+0.840
Year Built: 2002
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 2120
Health Index: 88.00



Map Number: SRA-44

Facility: Sweet Grass

Year Constructed/Reconstructed: 2002

Facility Age (years): 12

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 14

Number of Oversized Vehicle Stalls: 8

Telephone: Yes

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 4

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: Yes

Municipal Wastewater: Yes

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

Wi-Fi: No

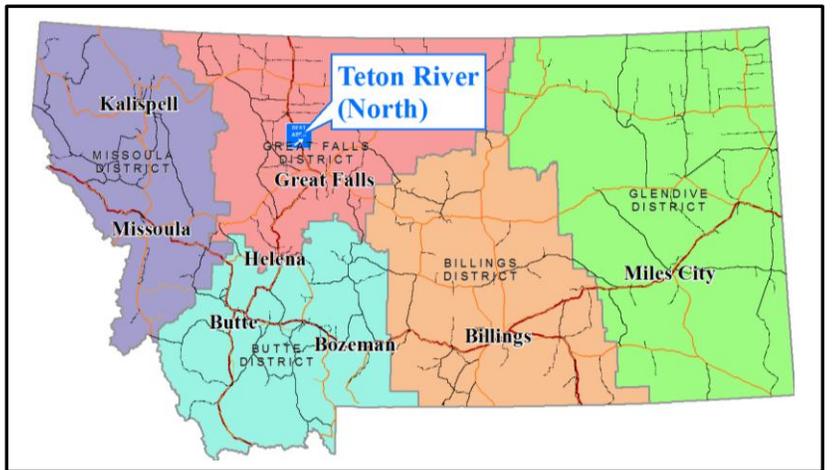
Future Considerations:

- Number of Oversized Vehicle Parking Stalls

SRA-45

Date: February 28, 2014

Name: Teton River (North) Rest Area
Route: I-15
Direction: North
Reference Post: 318+0.705
Year Built: 1978
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 3590
Health Index: 90.33



Map Number: SRA-45

Facility: Teton River (North)

Year Constructed/Reconstructed: 1978

Facility Age (years): 36

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 19

Number of Oversized Vehicle Stalls: 10

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 3

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: Yes

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: Yes

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

Vending Machines: No

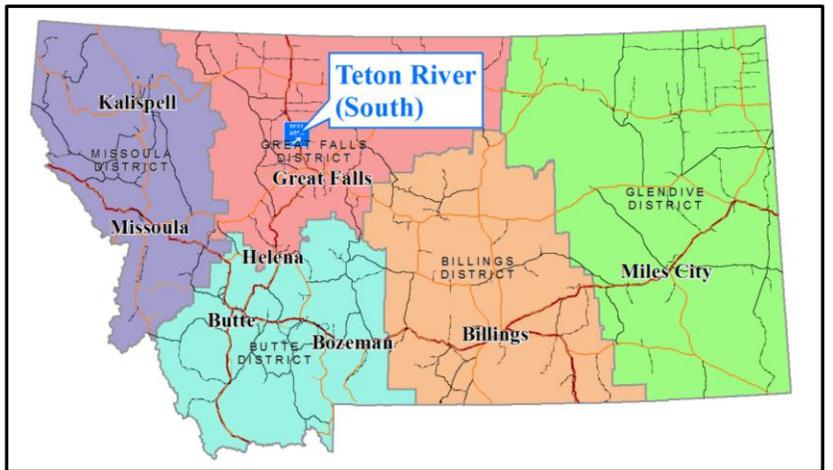
Wi-Fi: No

Future Considerations:

- Remaining Service Life for the Parking Area

SRA-46 Date: February 28, 2014

Name: Teton River (South) Rest Area
Route: I-15
Direction: South
Reference Post: 318+0.752
Year Built: 1978
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 3590
Health Index: 90.00



Map Number:	SRA-46
Facility:	Teton River (South)
Year Constructed/Reconstructed:	1978
Facility Age (years):	36
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	21
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	No
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

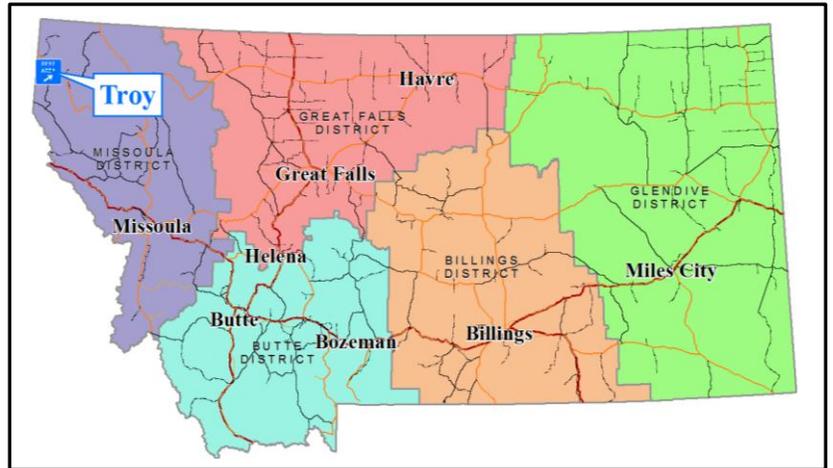
Future Considerations:

- Remaining Service Life for the Parking Area

SRA-47

Date: February 28, 2014

Name: Troy Rest Area
Route: US 2 (N-1)
Direction: East
Reference Post: 017+0.042
Year Built: 1991
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 2680
Health Index: 71.33



Map Number: SRA-47

Facility: Troy

Year Constructed/Reconstructed: 1991

Facility Age (years): 23

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 24

Number of Oversized Vehicle Stalls: 6

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 4

Number of Restroom Stalls (Men): 3

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: Yes

Designated Pet Area: Yes

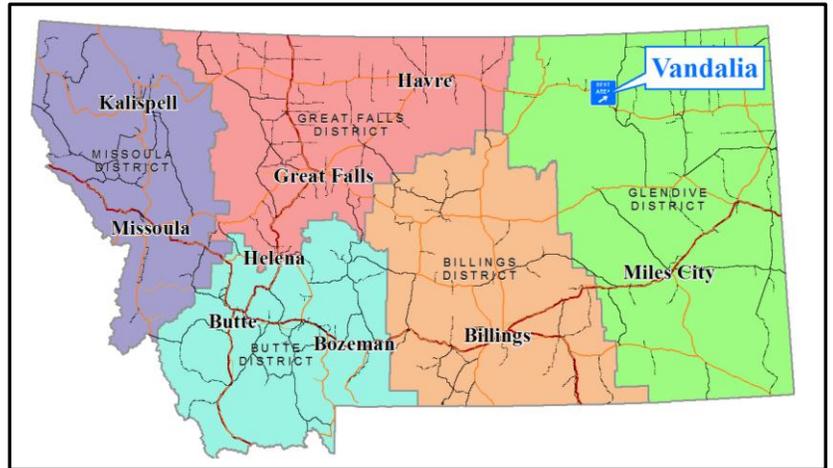
Vending Machines: No

Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Facility Ventilation
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-48 Date: February 28, 2014

Name: Vandalia Rest Area
Route: US 2 (N-1)
Direction: West
Reference Post: 527+0.205
Year Built: 1967
Jurisdiction: District 4 - Glendive
Maintenance: State Site
AADT (2011): 1250
Health Index: 59.00



Map Number: SRA-48

Facility: Vandalia

Year Constructed/Reconstructed: 1967

Facility Age (years): 47

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 14

Number of Oversized Vehicle Stalls: 8

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 2

Number of Restroom Stalls (Men): 2

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: Yes

Advanced WW Treatment: No

Municipal Water: No

Municipal Wastewater: No

Picnic Areas: Yes

Landscaping/Irrigation: No

Designated Pet Area: No

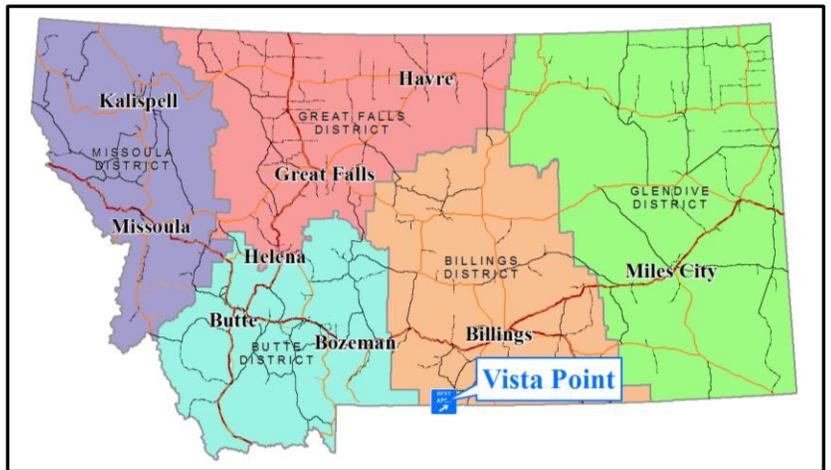
Vending Machines: No

Wi-Fi: No

- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Remaining Service Life for the Structure
 - Source Capability to Meet Peak Daily Demand
 - Remaining Service Life for the Water System
 - Remaining Service Life for the Wastewater System

SRA-49 Date: February 28, 2014

Name: Vista Point Rest Area
Route: US 212 (P-28)
Direction: North
Reference Post: 049+0.130
Year Built: 1995
Jurisdiction: District 5 - Billings
Maintenance: State Site
AADT (2011): 1090
Health Index: 24.00



Map Number:	SRA-49
Facility:	Vista Point
Year Constructed/Reconstructed:	1995
Facility Age (years):	19
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	20
Number of Oversized Vehicle Stalls:	5
Telephone:	Yes
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

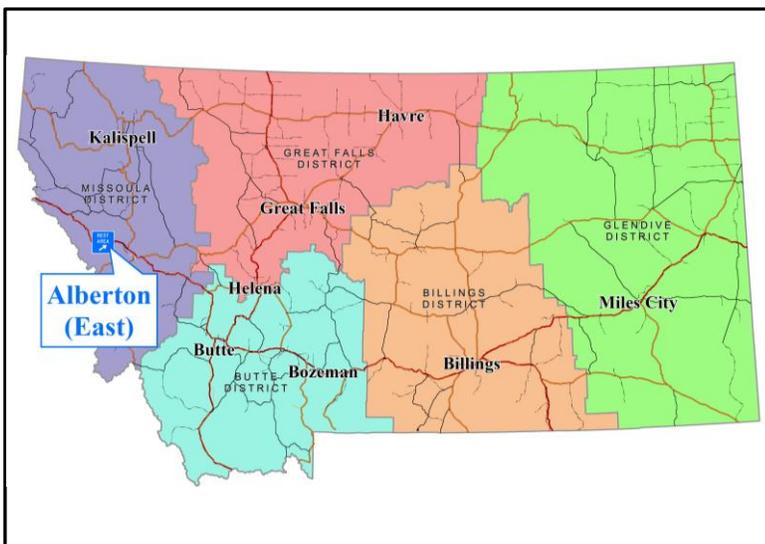
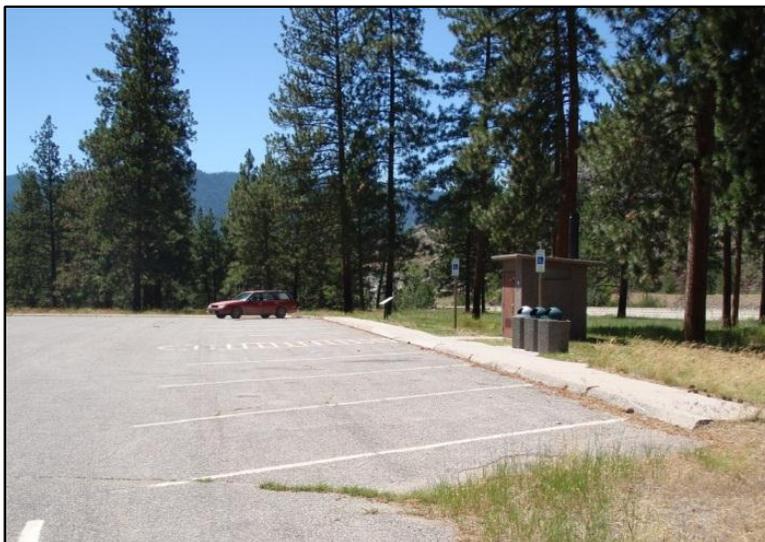
- Future Considerations:**
- Remaining Service Life for the Parking Area
 - Exterior Lighting
 - Picnic Areas
 - Facility Ventilation
 - Interior Lighting
 - Restroom Plumbing Fixtures

- Number of Restroom Stalls
- Source Capability to Meet Peak Daily Demand
- Storage Capability to Meet Peak Instantaneous Demand
- Water System Operation and Maintenance
- Backflow Prevention
- Source Quality
- Remaining Service Life for the Water System
- Wastewater Treatment System
- Wastewater Design Flow
- Wastewater System Operation and Maintenance
- Drain Field Site Constraints
- Remaining Service Life for the Wastewater System

SPA-1

Date: February 28, 2014

Name: Alberton (East) Parking Area
Route: I-90
Direction: East
Reference Post: 072+0.008
Year Built: 1966
Jurisdiction: District 1 - Missoula
Maintenance: State Site
AADT (2011): 6850

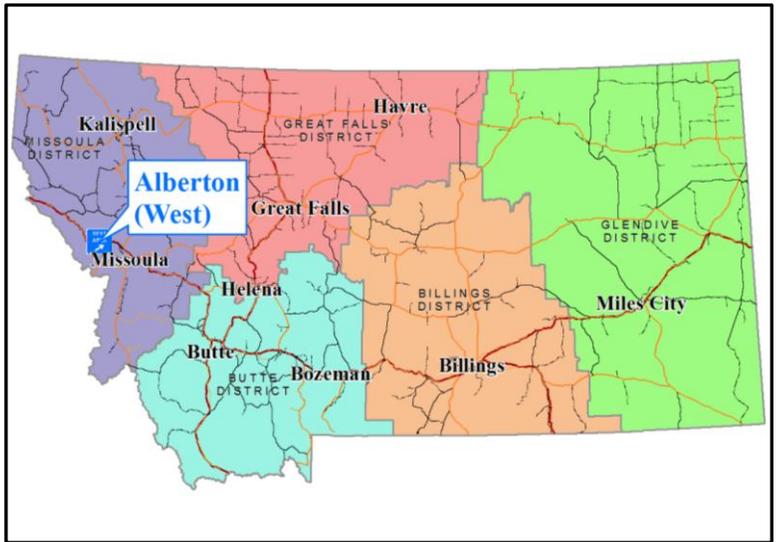
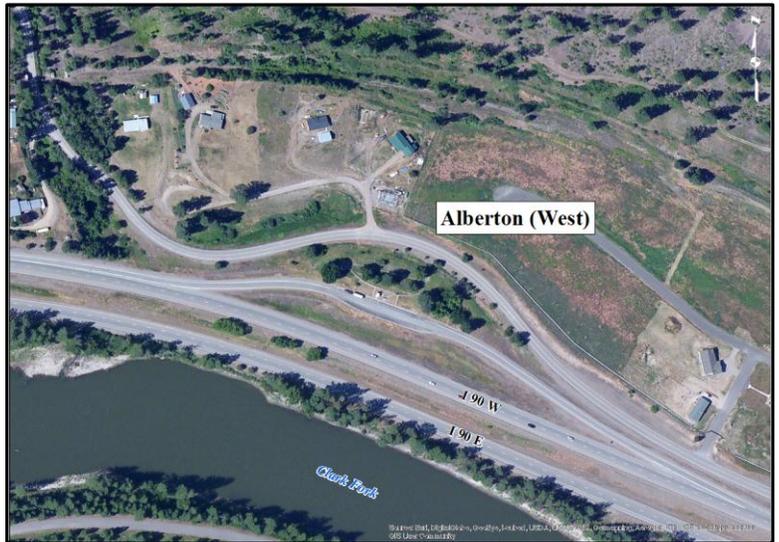


Map Number:	SPA-1
Facility:	Alberton (East)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	17
Number of Oversized Vehicle Stalls:	3
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-2

Date: February 28, 2014

Name: Alberton (West) Parking Area
Route: I-90
Direction: West
Reference Post: 073+0.324
Year Built: 1966
Jurisdiction: District 1 - Missoula
Maintenance: State Site
AADT (2011): 6850

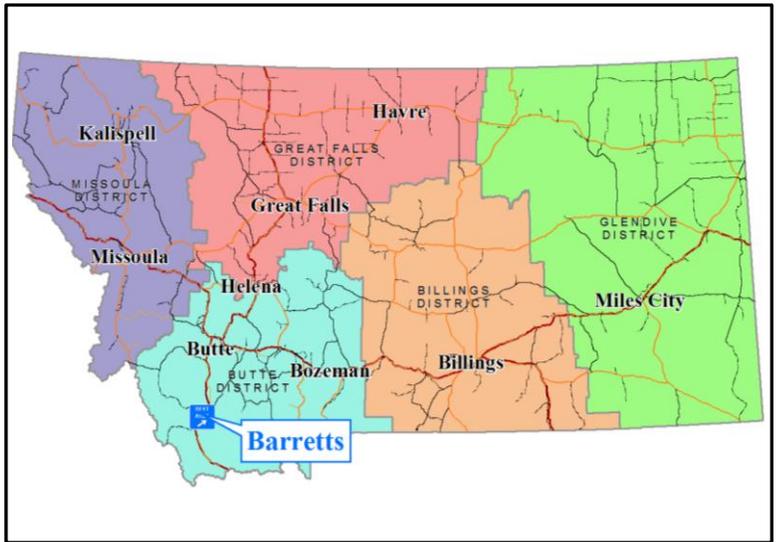


Map Number:	SPA-2
Facility:	Alberton (West)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	8
Number of Oversized Vehicle Stalls:	1
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

SPA-3

Date: February 28, 2014

Name: Barretts Parking Area
Route: I-15
Direction: South
Reference Post: 155+0.116
Year Built: 1966
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 3970

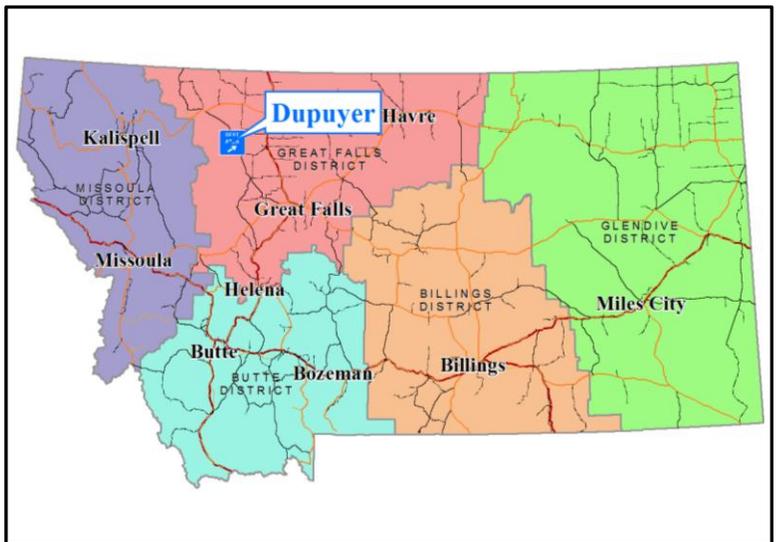


Map Number:	SPA-3
Facility:	Barretts
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	No
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	4
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	No
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-4

Date: February 28, 2014

Name: Dupuyer Rest Area
Route: US 89 (P-3)
Direction: South
Reference Post: 076+0.000
Year Built: 1985
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 730

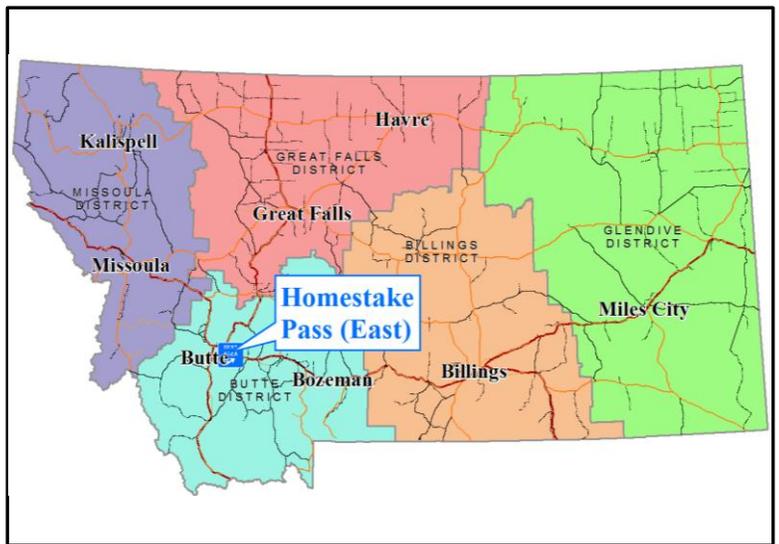


Map Number:	SPA-4
Facility:	Dupuyer
Year Constructed/Reconstructed:	1985
Facility Age (years):	30
Advance Signing:	No
Number of Passenger Vehicle Stalls:	7
Number of Oversized Vehicle Stalls:	3
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

SPA-5

Date: February 28, 2014

Name: Homestake Pass (East) Parking Area
Route: I-90
Direction: East
Reference Post: 234+0.937
Year Built: 1966
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 5520

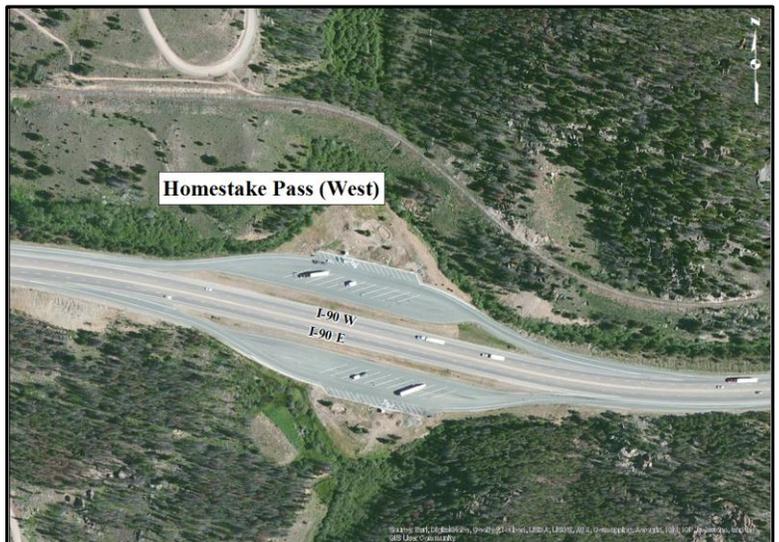


Map Number:	SPA-5
Facility:	Homestake Pass (East)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-6

Date: February 28, 2014

Name: Homestake Pass (West) Parking Area
Route: I-90
Direction: West
Reference Post: 234+0.928
Year Built: 1966
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 5520

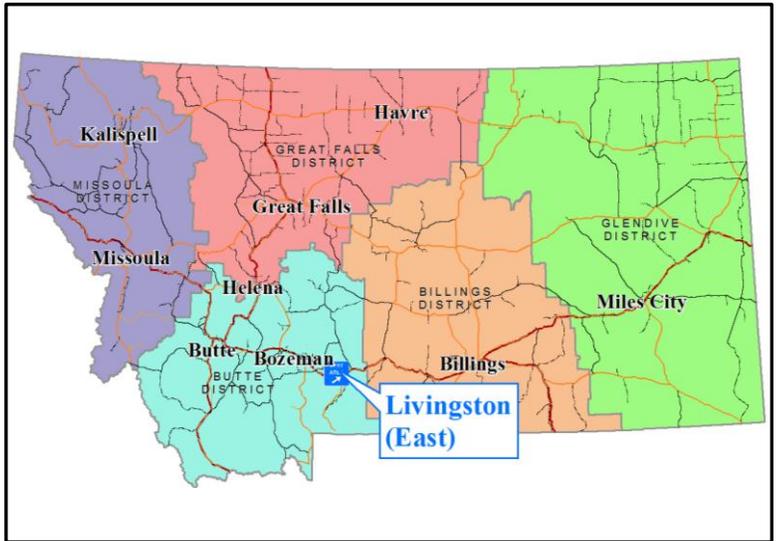


Map Number:	SPA-6
Facility:	Homestake Pass (West)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-7

Date: February 28, 2014

Name: Livingston (East) Parking Area
Route: I-90
Direction: East
Reference Post: 326+0.522
Year Built: Unknown
Jurisdiction: District 2 - Butte
Maintenance: State Site
AADT (2011): 10660

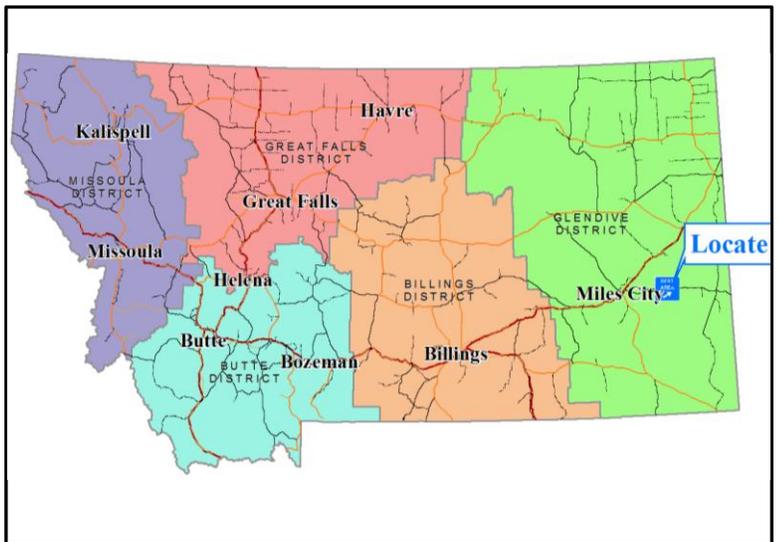


Map Number:	SPA-7
Facility:	Livingston (East)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	17
Number of Oversized Vehicle Stalls:	13
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-8

Date: February 28, 2014

Name: Locate Parking Area
Route: US 12 (P-2)
Direction: West
Reference Post: 043+0.607
Year Built: 1966
Jurisdiction: District 4 - Glendive
Maintenance: State Site
AADT (2011): 520

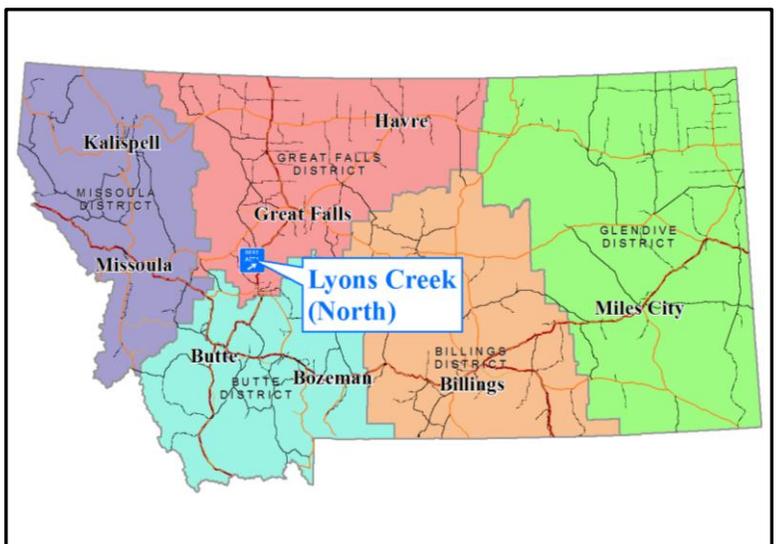
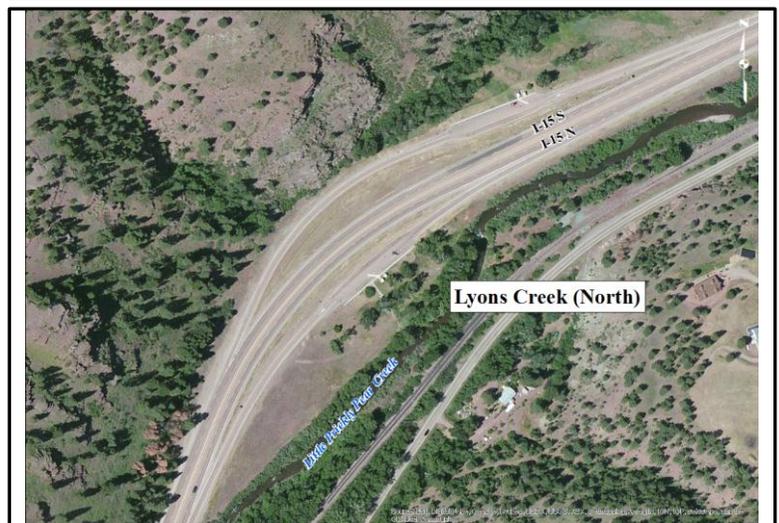


Map Number:	SPA-8
Facility:	Locate
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	8
Number of Oversized Vehicle Stalls:	6
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	Yes
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-9

Date: February 28, 2014

Name: Lyons Creek (North) Parking Area
Route: I-15
Direction: North
Reference Post: 221+0.933
Year Built: 1965
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 3490



Map Number:	SPA-9
Facility:	Lyons Creek (North)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	2
Number of Oversized Vehicle Stalls:	3
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-10

Date: February 28, 2014

Name: Lyons Creek (South) Parking Area
Route: I-15
Direction: South
Reference Post: 222+0.053
Year Built: 1966
Jurisdiction: District 3 – Great Falls
Maintenance: State Site
AADT (2011): 3490

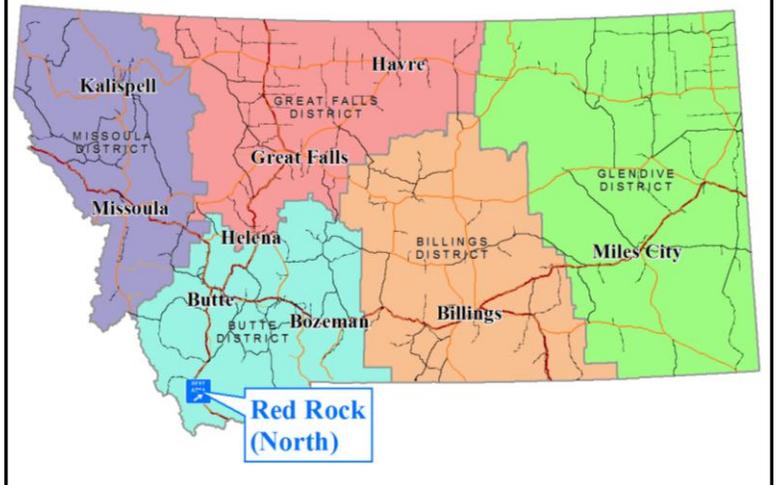


Map Number:	SPA-10
Facility:	Lyons Creek (South)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	No
Number of Passenger Vehicle Stalls:	24
Number of Oversized Vehicle Stalls:	3
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-11

Date: February 28, 2014

Name: Red Rocks (North) Parking Area
Route: I-15
Direction: North
Reference Post: 033+0.843
Year Built: Unknown
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 3430

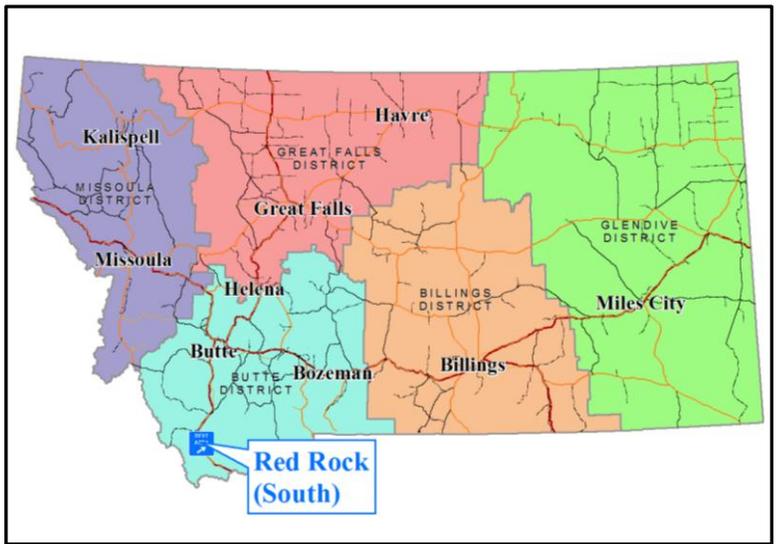


Map Number:	SPA-11
Facility:	Red Rocks (North)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-12

Date: February 28, 2014

Name: Red Rocks (South) Parking Area
Route: I-15
Direction: South
Reference Post: 033+0.817
Year Built: Unknown
Jurisdiction: District 2 – Butte
Maintenance: State Site
AADT (2011): 3430

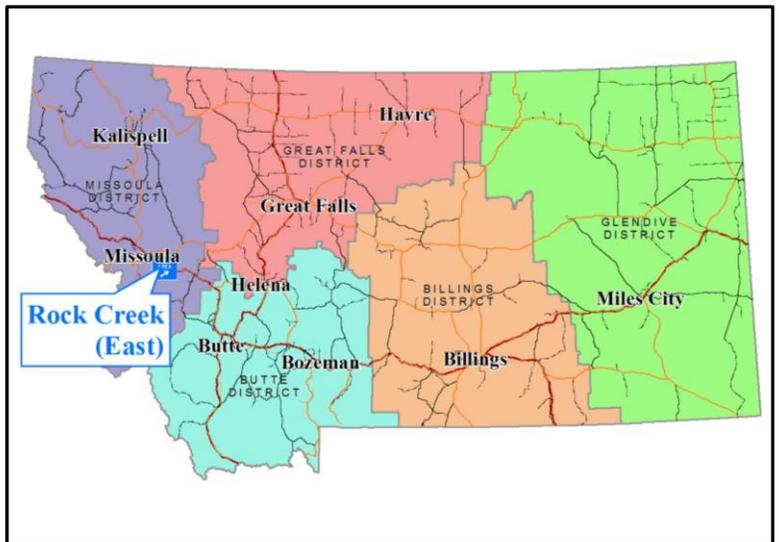


Map Number:	SPA-12
Facility:	Red Rocks (South)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	10
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-13

Date: February 28, 2014

Name: Rock Creek (East) Parking Area
Route: I-90
Direction: East
Reference Post: 127+0.454
Year Built: Unknown
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 8630

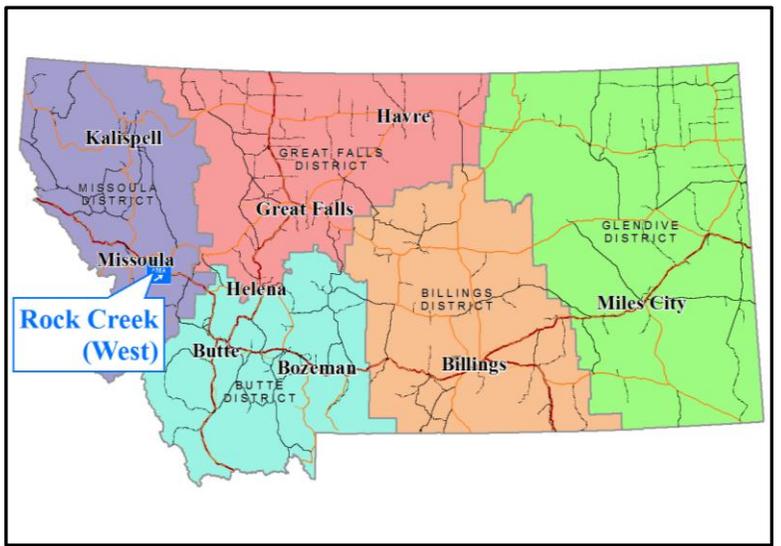


Map Number:	SPA-13
Facility:	Rock Creek (East)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	13
Number of Oversized Vehicle Stalls:	7
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

SPA-14

Date: February 28, 2014

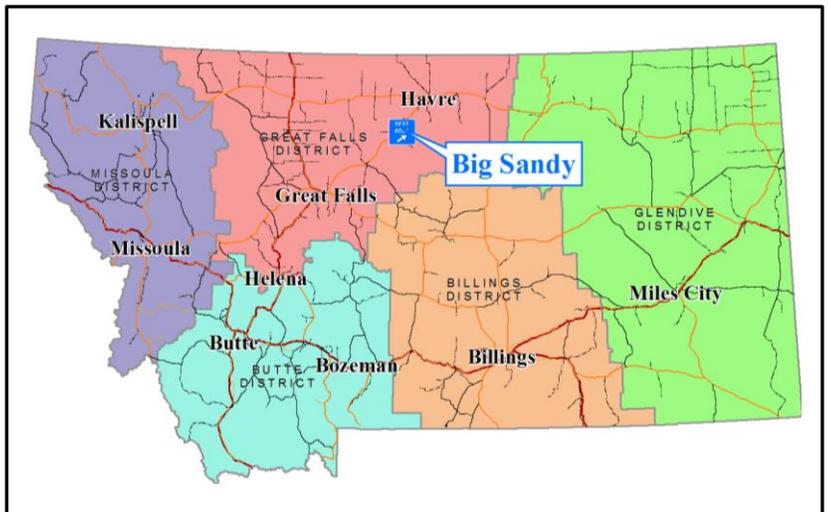
Name: Rock Creek (West) Parking Area
Route: I-90
Direction: West
Reference Post: 127+0.561
Year Built: Unknown
Jurisdiction: District 1 – Missoula
Maintenance: State Site
AADT (2011): 8630



Map Number:	SPA-14
Facility:	Rock Creek (West)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	12
Number of Oversized Vehicle Stalls:	7
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Area:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

CPRA-1 Date: February 28, 2014

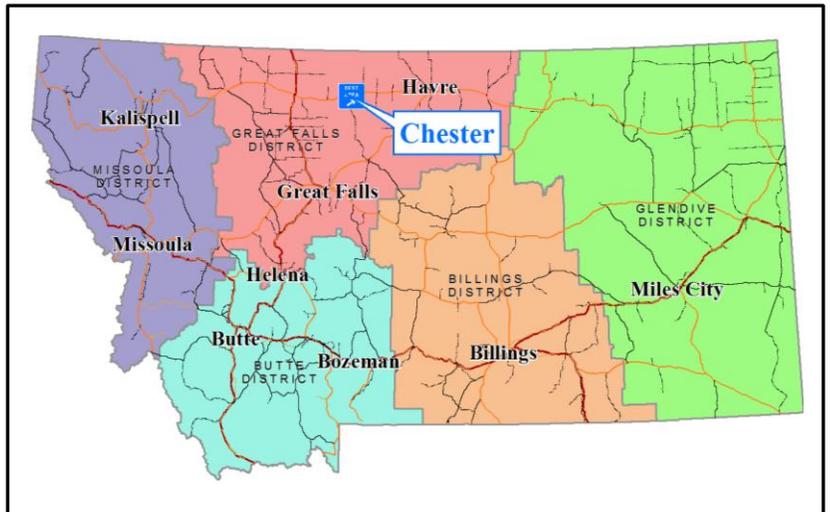
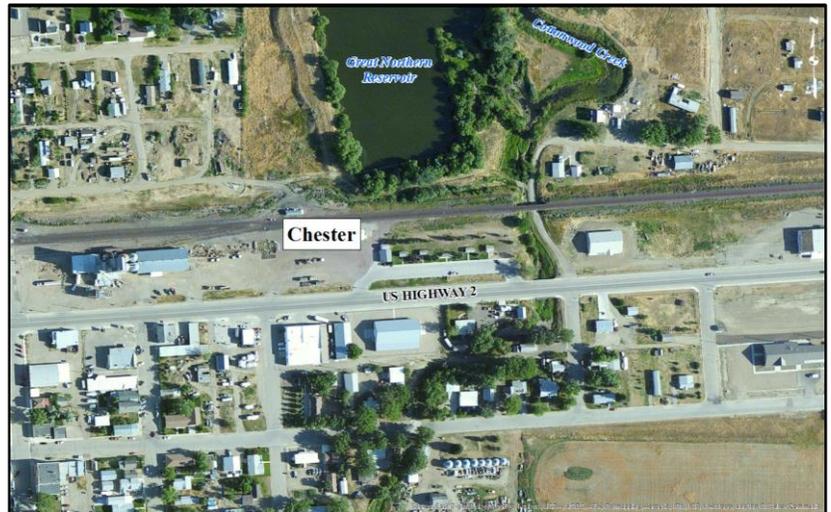
Name: Big Sandy City Park Rest Area
Route: US 87 (N-10)
Direction: North
Reference Post: 079+0.290
Year Built: 1991
Jurisdiction: District 3 – Great Falls
Maintenance: City Site
AADT (2011): 1980



Map Number:	CPRA-1
Facility:	Big Sandy
Year Constructed/Reconstructed:	1991
Facility Age (years):	23
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	14
Number of Oversized Vehicle Stalls:	4
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	1
Number of Restroom Stalls (Men):	1
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	No
Vending Machines:	Yes
Wi-Fi:	No

CPRA-2 Date: February 28, 2014

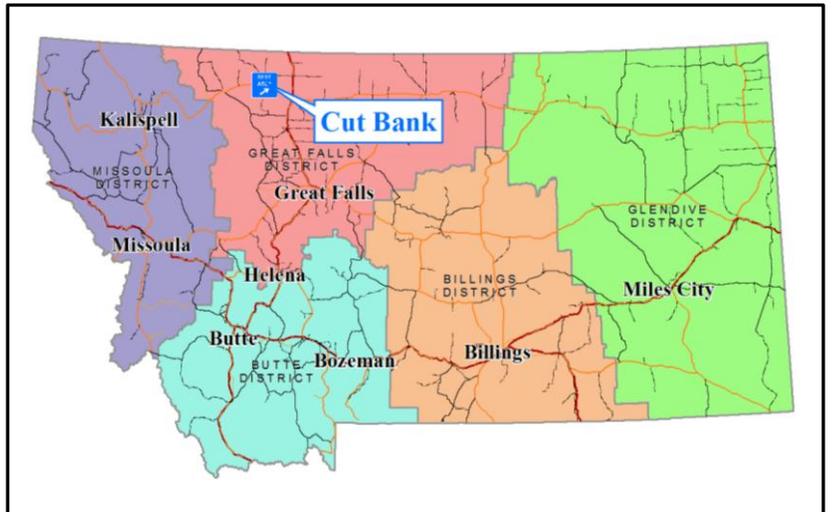
Name: Chester City Park Rest Area
Route: US 2 (N-1)
Direction: East
Reference Post: 322+0.302
Year Built: 1986
Jurisdiction: District 3 – Great Falls
Maintenance: City Site
AADT (2011): 2080



Map Number:	CPRA-2
Facility:	Chester
Year Constructed/Reconstructed:	1986
Facility Age (years):	28
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	30
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	Yes
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	No
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

CPRA-3 Date: February 28, 2014

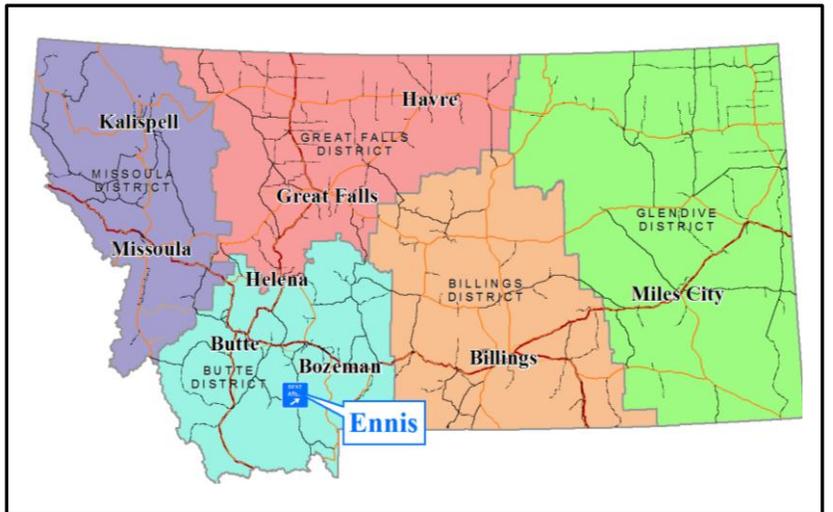
Name: Cut Bank City Park Rest Area
Route: US 2 (N-1)
Direction: West
Reference Post: 255+0.649
Year Built: 1988
Jurisdiction: District 3 – Great Falls
Maintenance: City Site
AADT (2011): 2760



Map Number:	CPRA-3
Facility:	Cut Bank
Year Constructed/Reconstructed:	1988
Facility Age (years):	26
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	28
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	No
Number of Restroom Stalls (Women):	4
Number of Restroom Stalls (Men):	4
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

CPRA-4 Date: February 28, 2014

Name: Ennis City Park Rest Area
Route: US 287 (P-13)
Direction: North
Reference Post: 048+0.649
Year Built: 1999
Jurisdiction: District 2 – Butte
Maintenance: City Site
AADT (2011): 2510



Map Number:	CPRA-4
Facility:	Ennis
Year Constructed/Reconstructed:	1999
Facility Age (years):	15
Advance Signing:	No
Number of Passenger Vehicle Stalls:	30
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	No
Vending Machines:	Yes
Wi-Fi:	No

CPRA-5 Date: February 28, 2014

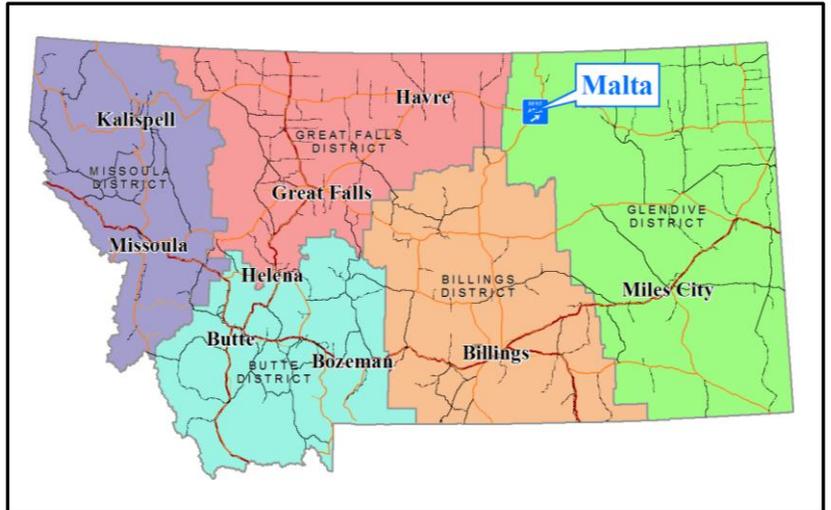
Name: Lewistown City Park Rest Area
Route: US 87 (N-57)
Direction: East
Reference Post: 080+0.399
Year Built: 1998
Jurisdiction: District 5 - Billings
Maintenance: City Site
AADT (2011): 2510



Map Number:	CPRA-5
Facility:	Lewistown
Year Constructed/Reconstructed:	1998
Facility Age (years):	16
Advance Signing:	No
Number of Passenger Vehicle Stalls:	8
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

CPRA-6 Date: February 28, 2014

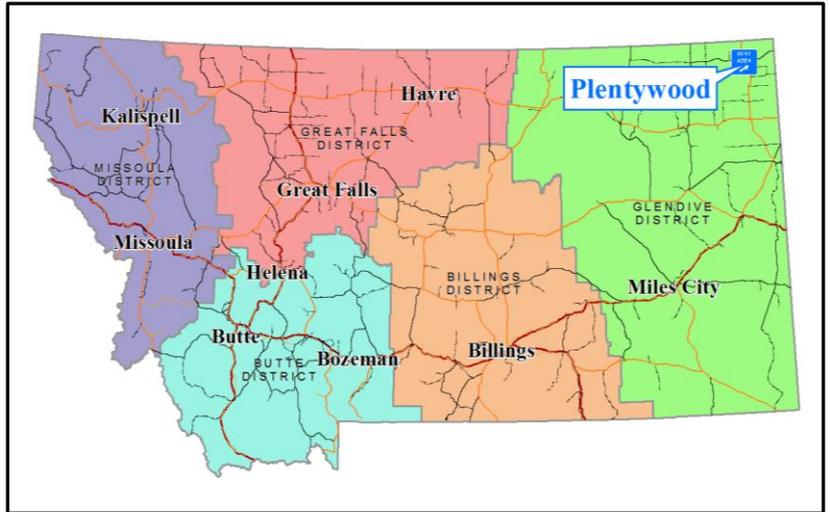
Name: Malta City Park Rest Area
Route: US 2 (N-1)
Direction: West
Reference Post: 471+0.811
Year Built: 1992
Jurisdiction: District 4 - Glendive
Maintenance: City Site
AADT (2011): 3000



Map Number:	CPRA-6
Facility:	Malta
Year Constructed/Reconstructed:	1992
Facility Age (years):	22
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	8
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

CPRA-7 Date: February 28, 2014

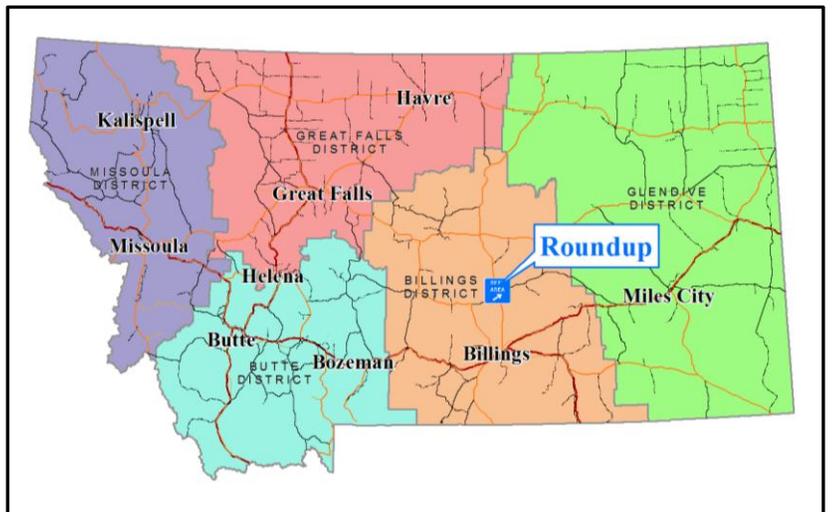
Name: Plentywood City Park Rest Area
Route: MT 5 & MT 16 (N-22)
Direction: South
Reference Post: 042+0.581
Year Built: 1992
Jurisdiction: District 4 – Glendive
Maintenance: City Site
AADT (2011): 2180



Map Number:	CPRA-7
Facility:	Plentywood
Year Constructed/Reconstructed:	1992
Facility Age (years):	22
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	24
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	N/A
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

CPRA-8 Date: February 28, 2014

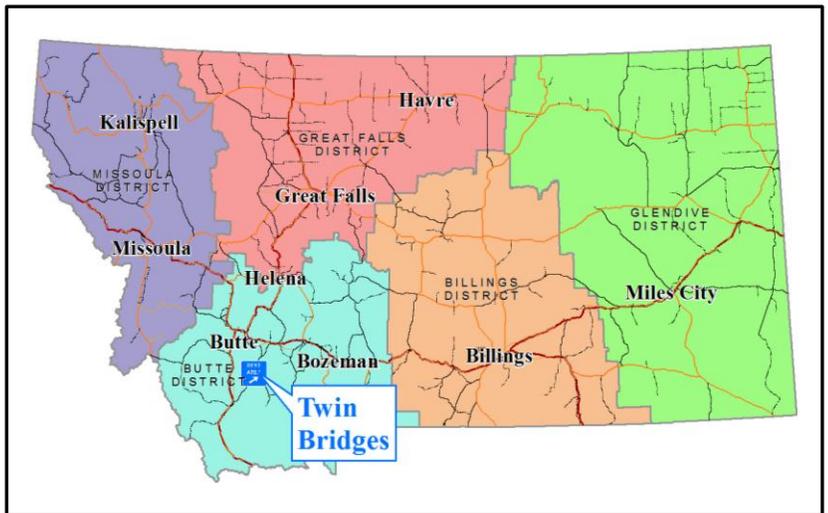
Name: Roundup City Park Rest Area
Route: US 12 (N-14)
Direction: West
Reference Post: 169+0.705
Year Built: 1996
Jurisdiction: District 5 – Billings
Maintenance: City Site
AADT (2011): 1490



Map Number:	CPRA-8
Facility:	Roundup
Year Constructed/Reconstructed:	1996
Facility Age (years):	18
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	24
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	1
Number of Restroom Stalls (Men):	1
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

CPRA-9 Date: February 28, 2014

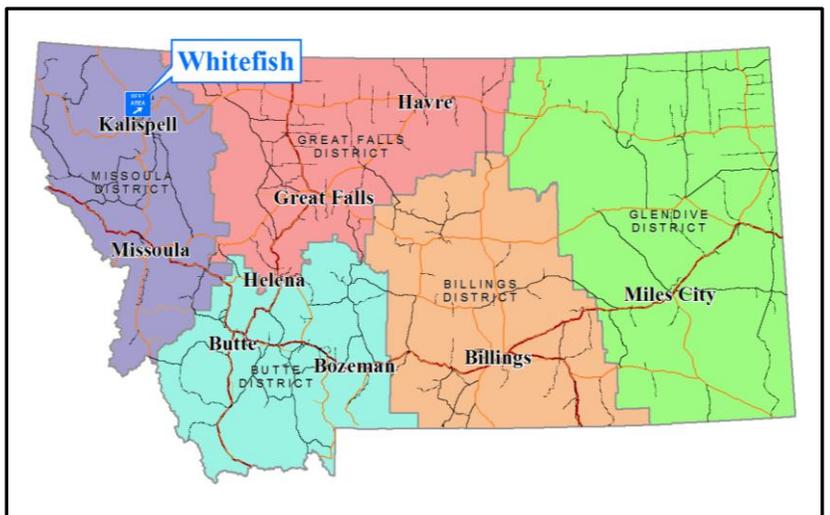
Name: Twin Bridges City Park Rest Area
Route: MT 41 (P-49)
Direction: South
Reference Post: 027+0.393
Year Built: 1993
Jurisdiction: District 2 – Butte
Maintenance: City Site
AADT (2011): 2320



Map Number:	CPRA-9
Facility:	Twin Bridges
Year Constructed/Reconstructed:	1993
Facility Age (years):	21
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	17
Number of Oversized Vehicle Stalls:	4
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	No
Municipal Water:	Yes
Municipal Wastewater:	Yes
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

CPRA-10 Date: February 28, 2014

Name: Whitefish City Park Rest Area
Route: US 93 (N-5)
Direction: South
Reference Post: 128+0.965
Year Built: 1996
Jurisdiction: District 1 – Missoula
Maintenance: City Site
AADT (2011): 6510



Map Number: CPRA-10

Facility: Whitefish

Year Constructed/Reconstructed: 1996

Facility Age (years): 18

Advance Signing: Yes

Number of Passenger Vehicle Stalls: 6

Number of Oversized Vehicle Stalls: 0

Telephone: No

Waste Receptacles: Yes

Number of Restroom Stalls (Women): 2

Number of Restroom Stalls (Men): 2

Sep. ADA/Family Style Restroom: No

Flush Toilet: Yes

Vault Toilet: No

Hand Dryers: No

Advanced WW Treatment: No

Municipal Water: Yes

Municipal Wastewater: Yes

Picnic Areas: No

Landscaping/Irrigation: Yes

Designated Pet Area: No

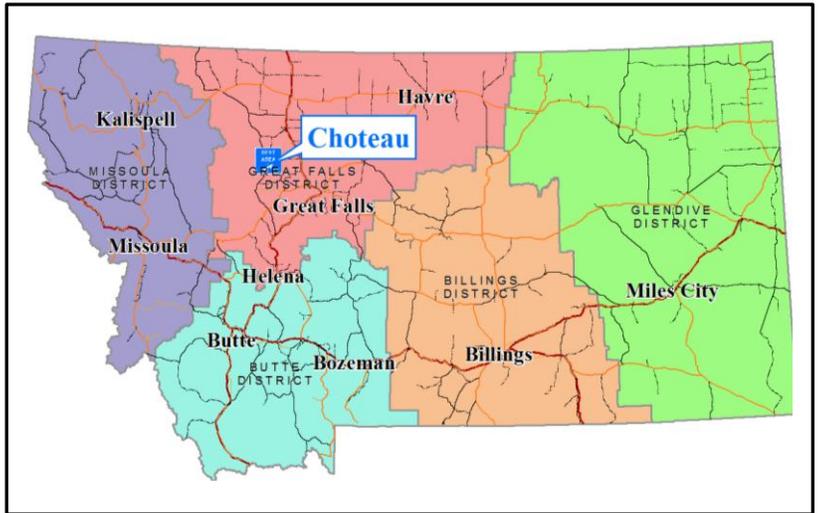
Vending Machines: No

Wi-Fi: No

OS-1

Date: February 28, 2014

Name: Choteau Rest Area
Route: (US 89) P-3
Direction: North
Reference Post: 0+41.790
Year Built: 1998
Jurisdiction: District 3 – Great Falls
Maintenance: City Site
AADT (2011): 2140

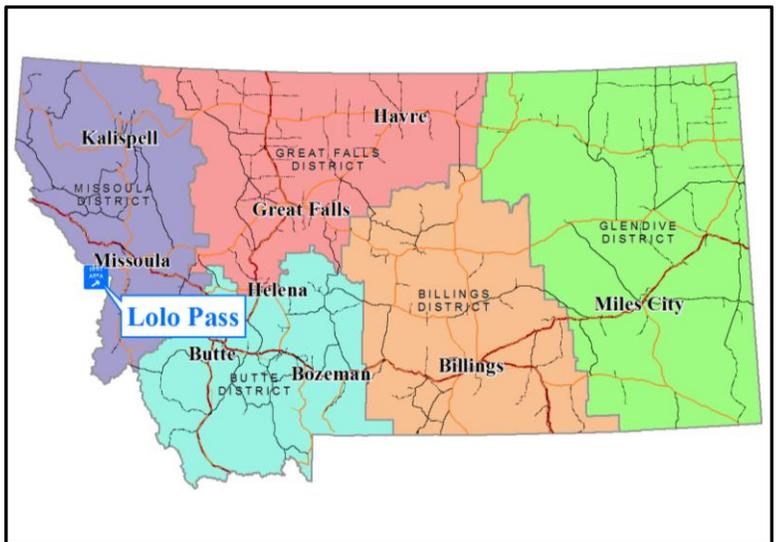


Map Number:	OS-1
Facility:	Choteau
Year Constructed/Reconstructed:	1998
Facility Age (years):	16
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	8
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	Unknown
Municipal Water:	Unknown
Municipal Wastewater:	Unknown
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	Yes
Wi-Fi:	No

OS-2

Date: February 28, 2014

Name: Lolo Pass Parking Area
Route: US 12 (N-93)
Direction: North
Reference Post: 000+0.000
Year Built: Unknown
Jurisdiction: District 1 – Missoula
Maintenance: Other Site
AADT (2011): 790

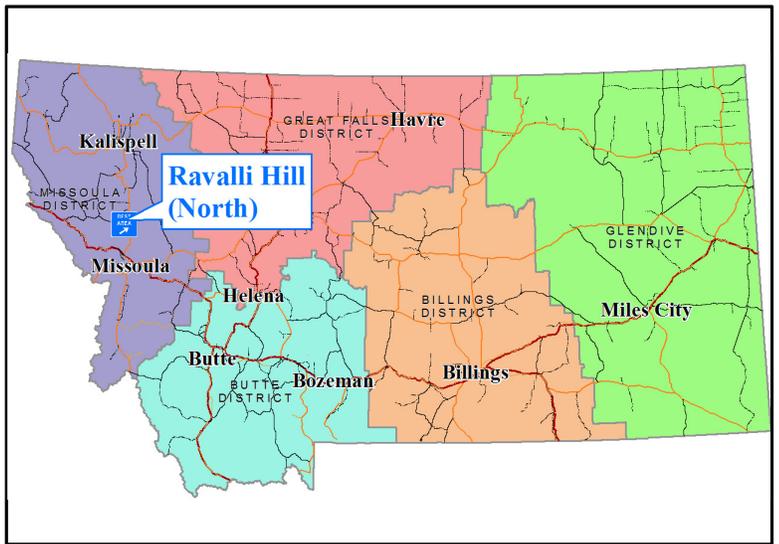


Map Number:	OS-2
Facility:	Lolo Pass
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	56
Number of Oversized Vehicle Stalls:	15
Telephone:	Yes
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	3
Number of Restroom Stalls (Men):	3
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	Unknown
Municipal Water:	Unknown
Municipal Wastewater:	Unknown
Picnic Area:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	Yes

OS-3

Date: February 28, 2014

Name: Ravalli Hill (North) Rest Area
Route: US 93 (N-5)
Direction: North
Reference Post: 029+0.145
Year Built: Unknown
Jurisdiction: District 1 - Missoula
Maintenance: Other Site
AADT (2011): 5740

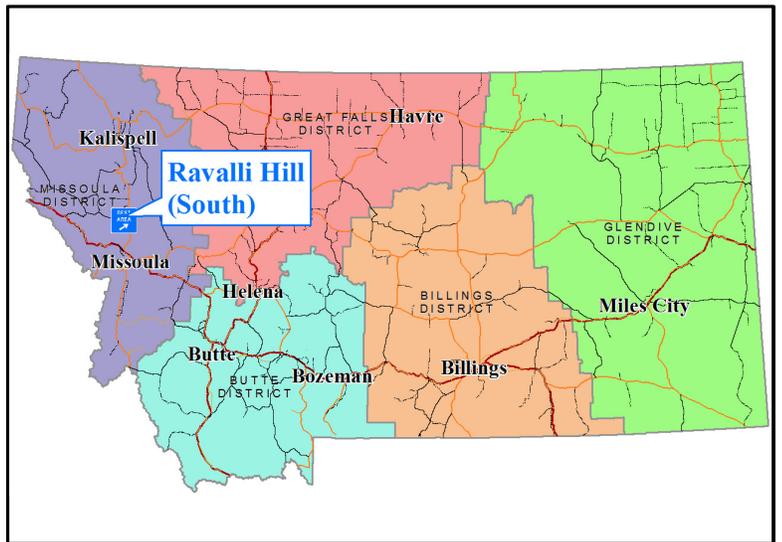


Map Number:	OS-3
Facility:	Ravalli Hill (North)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	11
Number of Oversized Vehicle Stalls:	3
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	Unknown
Municipal Water:	Unknown
Municipal Wastewater:	Unknown
Picnic Area:	Yes
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

OS-4

Date: February 28, 2014

Name: Ravalli Hill (South) Rest Area
Route: US 93 (N-5)
Direction: South
Reference Post: 029+0.268
Year Built: Unknown
Jurisdiction: District 1 – Missoula
Maintenance: Other Site
AADT (2011): 5740

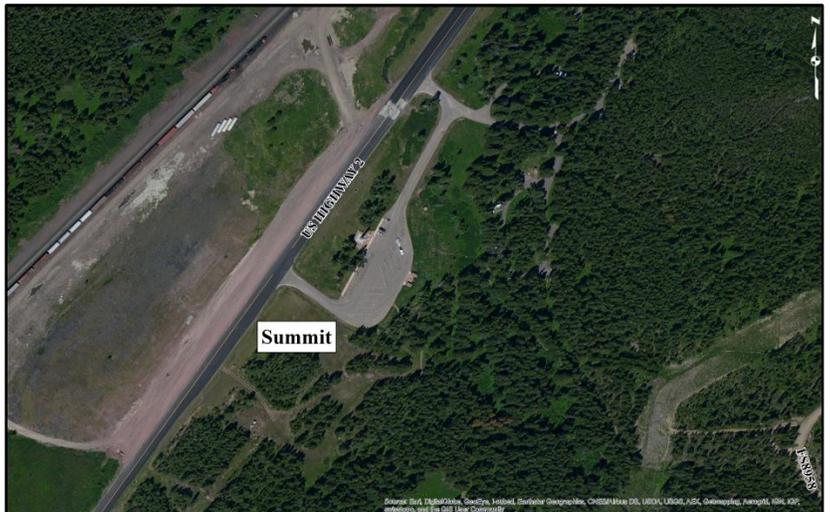


Map Number:	OS-4
Facility:	Ravalli Hill (South)
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	10
Number of Oversized Vehicle Stalls:	3
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	Unknown
Municipal Water:	Unknown
Municipal Wastewater:	Unknown
Picnic Area:	Yes
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

OS-5

Date: February 28, 2014

Name: Summit Rest Area
Route: US 2 (N-1)
Direction: East
Reference Post: 197+00.67
Year Built: Unknown
Jurisdiction: District 1 – Missoula
Maintenance: Other Site
AADT (2011): 1500

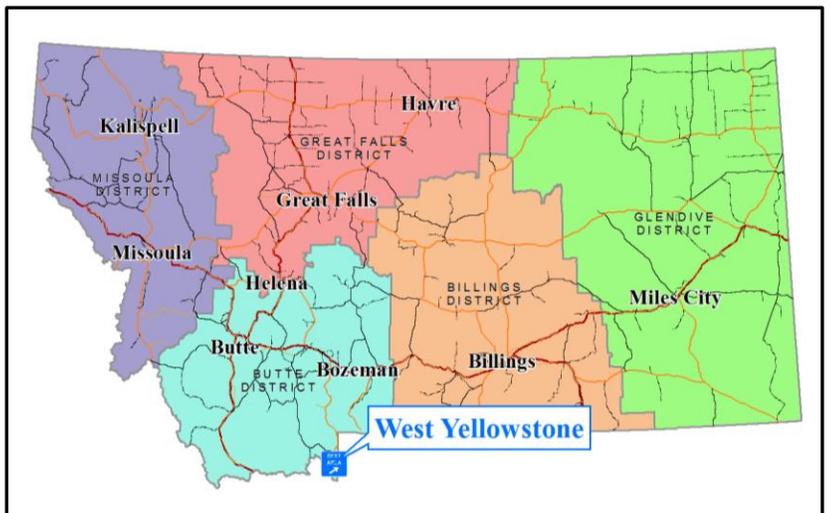


Map Number:	OS-5
Facility:	Summit
Year Constructed/Reconstructed:	Unknown
Facility Age (years):	Unknown
Advance Signing:	No
Number of Passenger Vehicle Stalls:	24
Number of Oversized Vehicle Stalls:	9
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	0
Number of Restroom Stalls (Men):	0
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	No
Vault Toilet:	Yes
Hand Dryers:	No
Advanced WW Treatment:	No
Municipal Water:	No
Municipal Wastewater:	No
Picnic Areas:	No
Landscaping/Irrigation:	No
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

OS-6

Date: February 28, 2014

Name: West Yellowstone Rest Area
Route: US 287 (N-50)
Direction: South
Reference Post: 000+0.080
Year Built: 1997
Jurisdiction: District 2 – Butte
Maintenance: Other Site
AADT (2011): 4720

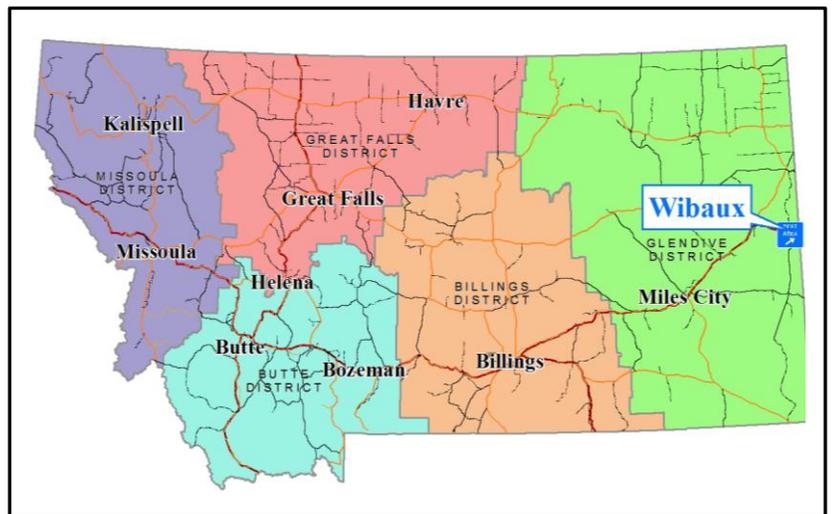


Map Number:	OS-6
Facility:	West Yellowstone
Year Constructed/Reconstructed:	1997
Facility Age (years):	17
Advance Signing:	No
Number of Passenger Vehicle Stalls:	52
Number of Oversized Vehicle Stalls:	0
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	4
Number of Restroom Stalls (Men):	4
Sep. ADA/Family Style Restroom:	Yes
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	Unknown
Municipal Water:	Unknown
Municipal Wastewater:	Unknown
Picnic Areas:	Yes
Landscaping/Irrigation:	N/A
Designated Pet Area:	No
Vending Machines:	No
Wi-Fi:	No

OS-7

Date: February 28, 2014

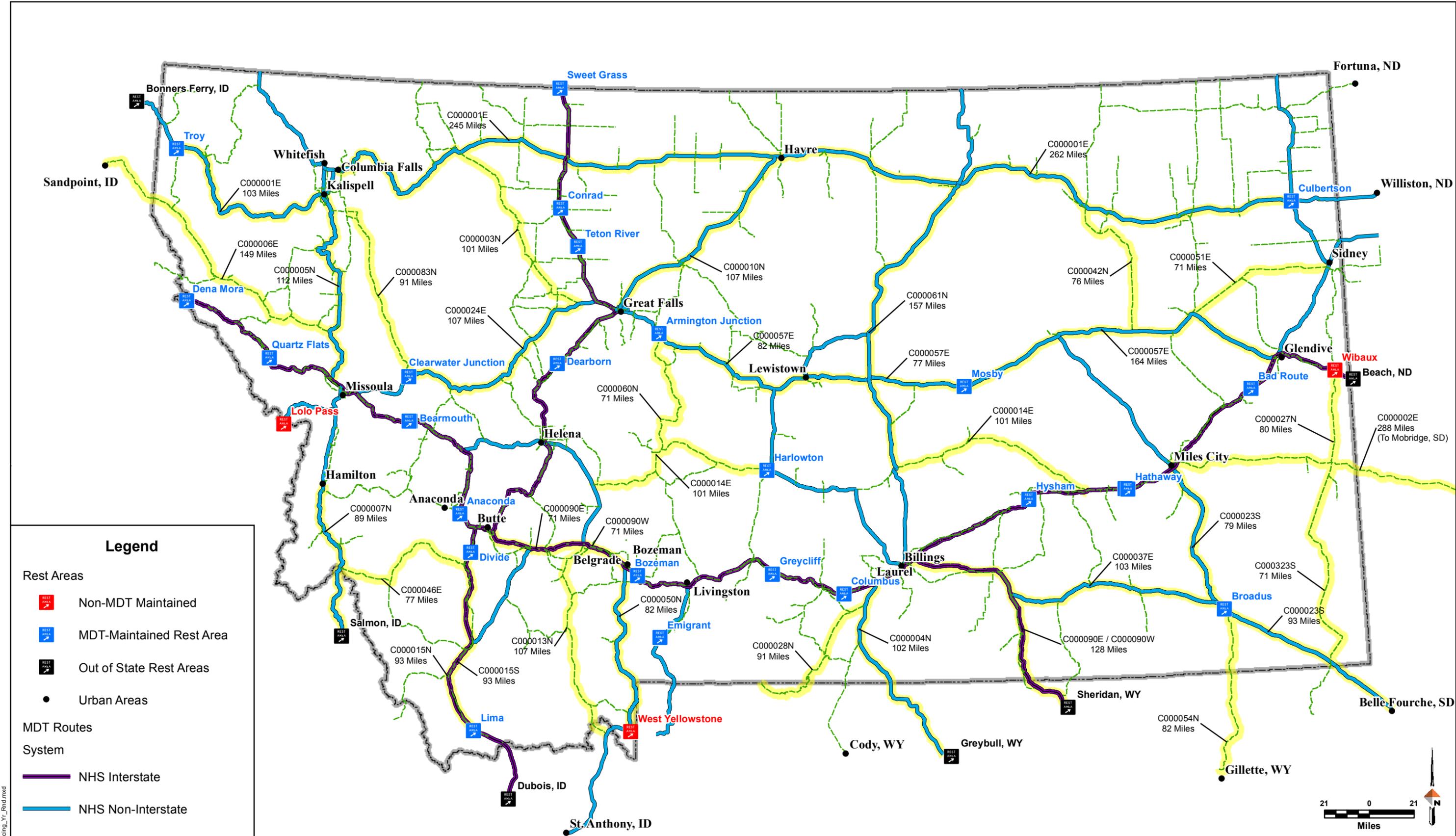
Name: Wibaux Rest Area
Route: I-94
Direction: East
Reference Post: 242+0.408
Year Built: 2001
Jurisdiction: District 4 – Glendive
Maintenance: Other Site
AADT (2011): 2860



Map Number:	OS-7
Facility:	Wibaux
Year Constructed/Reconstructed:	2001
Facility Age (years):	13
Advance Signing:	Yes
Number of Passenger Vehicle Stalls:	27
Number of Oversized Vehicle Stalls:	8
Telephone:	No
Waste Receptacles:	Yes
Number of Restroom Stalls (Women):	2
Number of Restroom Stalls (Men):	2
Sep. ADA/Family Style Restroom:	No
Flush Toilet:	Yes
Vault Toilet:	No
Hand Dryers:	Yes
Advanced WW Treatment:	Unknown
Municipal Water:	Unknown
Municipal Wastewater:	Unknown
Picnic Areas:	Yes
Landscaping/Irrigation:	Yes
Designated Pet Area:	Yes
Vending Machines:	No
Wi-Fi:	No

Attachment 12

SPACING ANALYSIS



MONTANA REST AREA PLAN UPDATE
REST AREA SPACING
 (Excluding Truck Parking Areas and Seasonal Rest Areas)

PROJECT	4633.11179.01
DATE	9/24/2014

FIGURE 2

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