



T. 41 N.  
T. 40 N.  
T. 6 S.  
T. 7 S.

Custer County  
Fall River County

Culvert ID	No. of Culverts	Diameter (Inches)	Location	Drainage Area (m <sup>2</sup> )	Curve Number	Design Storm Event	Peak Flow (cfs)
1	1	18	441,100 1,020,600	0.0000	78	10 yr, 6-hour	28.4
2	1	18	441,102 1,020,603	0.0000	78	2 yr, 6-hour	2.5
3	1	30	441,103 1,020,559	0.0000	78	2 yr, 6-hour	25.3
4	1	18	441,219 1,020,591	0.0000	78	2 yr, 6-hour	7.3
5	1	18	441,150 1,021,565	0.0000	78	2 yr, 6-hour	2.5
6	1	18	444,779 1,021,492	0.0070	78	2 yr, 6-hour	2.5
7	1	18	444,828 1,021,599	0.0000	78	2 yr, 6-hour	0.8
8	1	30	444,583 1,027,625	0.0000	78	2 yr, 6-hour	26.3
9	1	30	444,606 1,021,286	0.2790	78	2 yr, 6-hour	24.3
10	2	48	444,520 1,020,819	0.2850	78	10 yr, 24-hour	104.1
11	1	18	444,158 1,023,147	0.0000	78	2 yr, 6-hour	0.3
12	1	18	441,589 1,021,881	0.0000	78	2 yr, 6-hour	0.7
13	1	18	441,552 1,021,881	0.0000	78	2 yr, 6-hour	1.8
14	1	30	441,502 1,022,315	0.3930	78	2 yr, 6-hour	35.3
15	1	18	441,499 1,022,298	0.0000	78	2 yr, 6-hour	1.8
16	1	18	441,473 1,022,279	0.0000	78	2 yr, 6-hour	1.0
17	1	24	442,062 1,026,376	0.0770	78	2 yr, 6-hour	10.2
18	1	30	441,220 1,026,637	0.2940	77	2 yr, 6-hour	52.3
19	1	30	441,055 1,027,291	0.4430	77	2 yr, 6-hour	51.3
20	1	18	446,178 1,026,406	0.0000	79	2 yr, 6-hour	4.4
21	1	30	438,648 1,020,961	0.2840	78	2 yr, 6-hour	36.3
22	1	18	438,386 1,021,360	0.0000	79	2 yr, 6-hour	1.0
23	1	18	438,306 1,021,512	0.0000	79	2 yr, 6-hour	3.3
24	1	30	431,841 1,026,514	0.3000	78	2 yr, 6-hour	34.3
25	1	24	431,825 1,025,135	0.0000	79	2 yr, 6-hour	14.0
26	1	18	438,965 1,026,427	0.0440	79	2 yr, 6-hour	4.0
27	1	18	431,812 1,026,512	0.0000	80	2 yr, 6-hour	0.5
28	1	18	431,357 1,027,984	0.0000	79	2 yr, 6-hour	0.7
29	1	18	431,447 1,027,962	0.0000	79	2 yr, 6-hour	0.4
30	1	18	431,576 1,028,447	0.0000	79	2 yr, 6-hour	0.7
31	1	18	431,420 1,028,431	0.0000	79	2 yr, 6-hour	1.1
32	1	18	431,876 1,028,432	0.0000	80	2 yr, 6-hour	2.0
33	1	18	436,820 1,028,059	0.0000	80	2 yr, 6-hour	4.4
34	1	24	431,657 1,028,264	0.0070	80	2 yr, 6-hour	17.3
35	1	18	431,841 1,028,447	0.0000	79	2 yr, 6-hour	1.8
36	1	24	431,002 1,024,429	0.0000	80	2 yr, 6-hour	11.0
37	1	24	434,584 1,024,406	0.0440	80	2 yr, 6-hour	12.4
38	1	48	431,965 1,020,371	0.2970	79	10 yr, 24-hour	48.4
39	1	24	431,921 1,025,415	0.0000	79	2 yr, 6-hour	10.5
40	2	48	431,677 1,021,378	1.4420	80	2 yr, 6-hour	128.9
41	2	48	431,679 1,025,462	0.2410	79	10 yr, 24-hour	102.9
42	1	30	431,421 1,025,253	0.1900	80	2 yr, 6-hour	45.2
43	1	30	431,074 1,025,986	0.3070	79	2 yr, 6-hour	33.0
44	1	18	431,075 1,025,939	0.0000	80	2 yr, 6-hour	0.3
45	1	18	431,394 1,025,145	0.0000	79	2 yr, 6-hour	0.5
46	1	30	431,042 1,025,289	0.0000	79	2 yr, 6-hour	1.0
47	1	24	431,442 1,024,455	0.0000	80	10 yr, 24-hour	11.0
48	1	18	432,170 1,028,076	0.0070	79	2 yr, 6-hour	5.5
49	1	18	431,679 1,028,584	0.0000	79	2 yr, 6-hour	2.8
50	1	42	431,870 1,024,135	0.0000	80	10 yr, 24-hour	30.0
51	1	18	431,769 1,024,149	0.2130	71	2 yr, 6-hour	8.9
52	1	18	431,649 1,024,132	0.0000	79	2 yr, 6-hour	7.1
53	1	18	431,044 1,022,209	0.0000	79	2 yr, 6-hour	8.7
54	1	18	430,912 1,023,323	0.0000	79	2 yr, 6-hour	1.8
55	1	24	431,841 1,025,014	0.0000	79	2 yr, 6-hour	10.4
56	1	48	430,851 1,025,461	0.0000	79	10 yr, 24-hour	76.0
57	1	18	431,275 1,026,709	0.0000	80	2 yr, 6-hour	1.3
58	1	18	431,213 1,027,048	0.0000	79	2 yr, 6-hour	7.7
59	1	18	431,120 1,027,546	0.0000	79	2 yr, 6-hour	1.9
60	1	18	431,076 1,027,941	0.0000	79	2 yr, 6-hour	43.0
61	1	24	429,902 1,025,184	0.0000	80	2 yr, 6-hour	12.4
62	1	18	429,840 1,025,578	0.0000	80	2 yr, 6-hour	4.8
63	1	18	429,909 1,025,517	0.0000	80	2 yr, 6-hour	10.0
64	1	18	427,682 1,021,013	0.0000	79	10 yr, 24-hour	11.0
65	1	30	441,763 1,025,251	0.3800	78	2 yr, 6-hour	35.9

**LEGEND**

- PERMIT BOUNDARY
- COUNTY ROAD
- EXISTING ROAD
- PROPOSED PRIMARY ACCESS ROAD
- PROPOSED SECONDARY ACCESS ROAD
- PROPOSED LIGHT USE ROAD
- RAILROAD
- APPROXIMATE RAILROAD RIGHT-OF-WAY
- PERENNIAL STREAM CHANNEL
- EPHEMERAL STREAM CHANNEL
- PROPOSED ROAD DITCH
- PROPOSED OVERHEAD POWER
- EXISTING BLACK HILLS ELECTRIC
- PROPOSED WELL FIELD FENCE
- PROPOSED CULVERT
- ORE BODY
- FACILITY POND
- STAGING AREA
- MONITOR WELL
- MADISON WELL
- STREAM MONITORING LOCATION
- DEEP DISPOSAL WELL (SEE NOTE)
- PERMETER MONITOR WELL
- EXISTING IMPROVEMENT TO BE MONITORED

This plate is provided to fulfill the requirements of ARD 74-29 07-12.

Note: This plate will be updated in the event that land application is used.

Scale: 1" = 10' Feet

Scale: 1" = 200 Feet

Scale: 1" = 500 Feet

Scale: 1" = 1,000 Feet

Scale: 1" = 2,000 Feet

Scale: 1" = 4,000 Feet

Scale: 1" = 8,000 Feet

CHECK SCALES		REVISIONS	
#	DATE	CHECKED	APPROVED
1	27 September 2012	DAVE C. JOHNSON	DALE E. BROWN

**PowerTech (USA) Inc.**

**Plate 5.3-5**

**Access Roads**

Sheet 1 of 2

Dewey-Burdock Project

Coordinate: NAD 27, South Dakota State Plane South (feet)