



Culvert ID	No. of Culverts	Diameter (Inches)	Location	Drainage Area (Acre)	Curve Number	Design Storm	Peak Flow (cfs)
1	1	18	445,362 1,019,933	0.0360	76	2 yr. 6-hour	7.5
2	1	18	445,358 1,021,331	0.2400	76	2 yr. 6-hour	25.7
3	1	18	445,352 1,021,561	0.0360	76	2 yr. 6-hour	7.5
4	1	18	445,350 1,021,561	0.0360	76	2 yr. 6-hour	7.5
5	1	18	445,348 1,021,561	0.0360	76	2 yr. 6-hour	7.5
6	1	18	445,346 1,021,561	0.0360	76	2 yr. 6-hour	7.5
7	1	18	445,344 1,021,561	0.0360	76	2 yr. 6-hour	7.5
8	1	18	445,342 1,021,561	0.0360	76	2 yr. 6-hour	7.5
9	1	18	445,340 1,021,561	0.0360	76	2 yr. 6-hour	7.5
10	1	18	445,338 1,021,561	0.0360	76	2 yr. 6-hour	7.5
11	2	48	434,347 1,016,569	0.2400	75	10 yr. 24-hour	106.2
12	1	18	444,158 1,031,447	0.0360	76	2 yr. 6-hour	8.7
13	1	18	443,988 1,031,893	0.0360	76	2 yr. 6-hour	8.7
14	1	18	443,818 1,032,339	0.0360	76	2 yr. 6-hour	8.7
15	1	18	443,648 1,032,785	0.0360	76	2 yr. 6-hour	8.7
16	1	18	443,478 1,033,231	0.0360	76	2 yr. 6-hour	8.7
17	1	18	443,308 1,033,677	0.0360	76	2 yr. 6-hour	8.7
18	1	18	443,138 1,034,123	0.0360	76	2 yr. 6-hour	8.7
19	1	18	442,968 1,034,569	0.0360	76	2 yr. 6-hour	8.7
20	1	18	442,798 1,035,015	0.0360	76	2 yr. 6-hour	8.7
21	1	18	442,628 1,035,461	0.0360	76	2 yr. 6-hour	8.7
22	1	18	442,458 1,035,907	0.0360	76	2 yr. 6-hour	8.7
23	1	18	442,288 1,036,353	0.0360	76	2 yr. 6-hour	8.7
24	1	18	442,118 1,036,799	0.0360	76	2 yr. 6-hour	8.7
25	1	18	441,948 1,037,245	0.0360	76	2 yr. 6-hour	8.7
26	1	18	441,778 1,037,691	0.0360	76	2 yr. 6-hour	8.7
27	1	18	441,608 1,038,137	0.0360	76	2 yr. 6-hour	8.7
28	1	18	441,438 1,038,583	0.0360	76	2 yr. 6-hour	8.7
29	1	18	441,268 1,039,029	0.0360	76	2 yr. 6-hour	8.7
30	1	18	441,098 1,039,475	0.0360	76	2 yr. 6-hour	8.7
31	1	18	440,928 1,040,000	0.0360	76	2 yr. 6-hour	8.7
32	1	18	440,758 1,040,525	0.0360	76	2 yr. 6-hour	8.7
33	1	18	440,588 1,041,050	0.0360	76	2 yr. 6-hour	8.7
34	1	18	440,418 1,041,575	0.0360	76	2 yr. 6-hour	8.7
35	1	18	440,248 1,042,100	0.0360	76	2 yr. 6-hour	8.7
36	1	18	440,078 1,042,625	0.0360	76	2 yr. 6-hour	8.7
37	1	18	439,908 1,043,150	0.0360	76	2 yr. 6-hour	8.7
38	1	18	439,738 1,043,675	0.0360	76	2 yr. 6-hour	8.7
39	1	18	439,568 1,044,200	0.0360	76	2 yr. 6-hour	8.7
40	1	18	439,398 1,044,725	0.0360	76	2 yr. 6-hour	8.7
41	1	18	439,228 1,045,250	0.0360	76	2 yr. 6-hour	8.7
42	1	18	439,058 1,045,775	0.0360	76	2 yr. 6-hour	8.7
43	1	18	438,888 1,046,300	0.0360	76	2 yr. 6-hour	8.7
44	1	18	438,718 1,046,825	0.0360	76	2 yr. 6-hour	8.7
45	1	18	438,548 1,047,350	0.0360	76	2 yr. 6-hour	8.7
46	1	18	438,378 1,047,875	0.0360	76	2 yr. 6-hour	8.7
47	1	18	438,208 1,048,400	0.0360	76	2 yr. 6-hour	8.7
48	1	18	438,038 1,048,925	0.0360	76	2 yr. 6-hour	8.7
49	1	18	437,868 1,049,450	0.0360	76	2 yr. 6-hour	8.7
50	1	18	437,698 1,049,975	0.0360	76	2 yr. 6-hour	8.7
51	1	18	437,528 1,050,500	0.0360	76	2 yr. 6-hour	8.7
52	1	18	437,358 1,051,025	0.0360	76	2 yr. 6-hour	8.7
53	1	18	437,188 1,051,550	0.0360	76	2 yr. 6-hour	8.7
54	1	18	437,018 1,052,075	0.0360	76	2 yr. 6-hour	8.7
55	1	18	436,848 1,052,600	0.0360	76	2 yr. 6-hour	8.7
56	1	18	436,678 1,053,125	0.0360	76	2 yr. 6-hour	8.7
57	1	18	436,508 1,053,650	0.0360	76	2 yr. 6-hour	8.7
58	1	18	436,338 1,054,175	0.0360	76	2 yr. 6-hour	8.7
59	1	18	436,168 1,054,700	0.0360	76	2 yr. 6-hour	8.7
60	1	18	435,998 1,055,225	0.0360	76	2 yr. 6-hour	8.7
61	1	18	435,828 1,055,750	0.0360	76	2 yr. 6-hour	8.7
62	1	18	435,658 1,056,275	0.0360	76	2 yr. 6-hour	8.7
63	1	18	435,488 1,056,800	0.0360	76	2 yr. 6-hour	8.7
64	1	18	435,318 1,057,325	0.0360	76	2 yr. 6-hour	8.7
65	1	18	435,148 1,057,850	0.0360	76	2 yr. 6-hour	8.7

- 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)
  - PERIMETER MONITOR WELL
  - EXISTING IMPROVEMENT TO BE MONITORED

This plate is provided to fulfill the requirements of ARSD 74-29.07.12.

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

Scale: 1" = 10' Feet

Scale: 1" = 500' Feet

Scale: 1" = 1000' Feet

Scale: 1" = 2000' Feet

CONSULTANT	WWC ENGINEERING
PROJECT NO.	112702W08ACCESS_ROADS.dwg
DATE	27 September 2012
DRAWN	DAVE C. JOHNSON
CHECKED	
APPROVED	
DATE	

**POWERTECH (USA) INC.**

**Plate 5.3-5**

**Access Roads**

**Dewey-Burdock Project**

Sheet 2 of 2