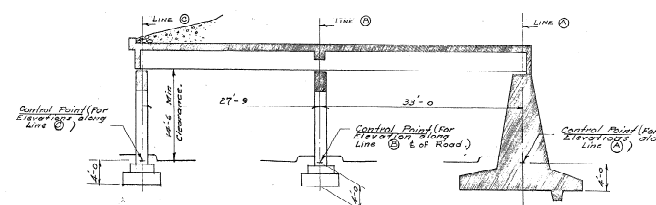
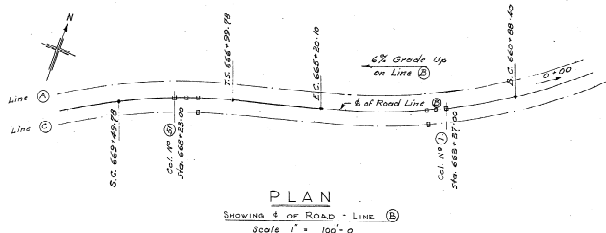


STATION	LAYOUT DATA									
	ALONG LINE (B) & OF ROAD	ALONG LINE (C) & OF ROAD	ALONG LINE (D) & OF ROAD	ALONG LINE (E) & OF ROAD	ALONG LINE (F) & OF ROAD	ALONG LINE (G) & OF ROAD	ALONG LINE (H) & OF ROAD	ALONG LINE (I) & OF ROAD	ALONG LINE (J) & OF ROAD	ALONG LINE (K) & OF ROAD
COL. NO.	STATION	ELEVATION	CH. TO CUR. OF COL.	DEFLECTION ANGLE	CH. TO CUR. OF COL.	DEFLECTION ANGLE	CH. TO CUR. OF COL.	DEFLECTION ANGLE	CH. TO CUR. OF COL.	DEFLECTION ANGLE
B.C.	660+00.00	3804.12	5.0	0° 41' 35"	3804.12	2803.46				
1M	131.00	4.42	5.0	0° 41' 35"	3804.12	2803.46				
2M	132.00	4.75	5.0	0° 41' 35"	3804.12	2803.46				
3M	133.00	5.08	5.0	0° 41' 35"	3804.12	2803.46				
4M	134.00	5.41	5.0	0° 41' 35"	3804.12	2803.46				
5M	135.00	5.74	5.0	0° 41' 35"	3804.12	2803.46				
6M	136.00	6.07	5.0	0° 41' 35"	3804.12	2803.46				
7M	137.00	6.40	5.0	0° 41' 35"	3804.12	2803.46				
8M	138.00	6.73	5.0	0° 41' 35"	3804.12	2803.46				
9M	139.00	7.06	5.0	0° 41' 35"	3804.12	2803.46				
10M	140.00	7.39	5.0	0° 41' 35"	3804.12	2803.46				
11M	141.00	7.72	5.0	0° 41' 35"	3804.12	2803.46				
12M	142.00	8.05	5.0	0° 41' 35"	3804.12	2803.46				
13M	143.00	8.38	5.0	0° 41' 35"	3804.12	2803.46				
14M	144.00	8.71	5.0	0° 41' 35"	3804.12	2803.46				
15M	145.00	9.04	5.0	0° 41' 35"	3804.12	2803.46				
16M	146.00	9.37	5.0	0° 41' 35"	3804.12	2803.46				
17M	147.00	9.70	5.0	0° 41' 35"	3804.12	2803.46				
18M	148.00	10.03	5.0	0° 41' 35"	3804.12	2803.46				
19M	149.00	10.36	5.0	0° 41' 35"	3804.12	2803.46				
20M	150.00	10.69	5.0	0° 41' 35"	3804.12	2803.46				
21M	151.00	11.02	5.0	0° 41' 35"	3804.12	2803.46				
22M	152.00	11.35	5.0	0° 41' 35"	3804.12	2803.46				
23M	153.00	11.68	5.0	0° 41' 35"	3804.12	2803.46				
24M	154.00	12.01	5.0	0° 41' 35"	3804.12	2803.46				
25M	155.00	12.34	5.0	0° 41' 35"	3804.12	2803.46				
26M	156.00	12.67	5.0	0° 41' 35"	3804.12	2803.46				
27M	157.00	13.00	5.0	0° 41' 35"	3804.12	2803.46				
28M	158.00	13.33	5.0	0° 41' 35"	3804.12	2803.46				
29M	159.00	13.66	5.0	0° 41' 35"	3804.12	2803.46				
30M	160.00	13.99	5.0	0° 41' 35"	3804.12	2803.46				
31M	161.00	14.32	5.0	0° 41' 35"	3804.12	2803.46				
32M	162.00	14.65	5.0	0° 41' 35"	3804.12	2803.46				
33M	163.00	14.98	5.0	0° 41' 35"	3804.12	2803.46				
34M	164.00	15.31	5.0	0° 41' 35"	3804.12	2803.46				
35M	165.00	15.64	5.0	0° 41' 35"	3804.12	2803.46				
36M	166.00	15.97	5.0	0° 41' 35"	3804.12	2803.46				
37M	167.00	16.30	5.0	0° 41' 35"	3804.12	2803.46				
38M	168.00	16.63	5.0	0° 41' 35"	3804.12	2803.46				
39M	169.00	16.96	5.0	0° 41' 35"	3804.12	2803.46				
40M	170.00	17.29	5.0	0° 41' 35"	3804.12	2803.46				

STATION	LAYOUT DATA									
	ALONG LINE (B) & OF ROAD	ALONG LINE (C) & OF ROAD	ALONG LINE (D) & OF ROAD	ALONG LINE (E) & OF ROAD	ALONG LINE (F) & OF ROAD	ALONG LINE (G) & OF ROAD	ALONG LINE (H) & OF ROAD	ALONG LINE (I) & OF ROAD	ALONG LINE (J) & OF ROAD	ALONG LINE (K) & OF ROAD
COL. NO.	STATION	ELEVATION	CH. TO CUR. OF COL.	DEFLECTION ANGLE	CH. TO CUR. OF COL.	DEFLECTION ANGLE	CH. TO CUR. OF COL.	DEFLECTION ANGLE	CH. TO CUR. OF COL.	DEFLECTION ANGLE
40	660+00.00	3832.35	5.0	0° 00' 00"	3832.35	3832.35				
41	131.00	32.68	5.0	0° 00' 00"	3832.35	3832.35				
42	132.00	32.80	5.0	0° 00' 00"	3832.35	3832.35				
43	133.00	32.92	5.0	0° 00' 00"	3832.35	3832.35				
44	134.00	33.04	5.0	0° 00' 00"	3832.35	3832.35				
45	135.00	33.16	5.0	0° 00' 00"	3832.35	3832.35				
46	136.00	33.28	5.0	0° 00' 00"	3832.35	3832.35				
47	137.00	33.40	5.0	0° 00' 00"	3832.35	3832.35				
48	138.00	33.52	5.0	0° 00' 00"	3832.35	3832.35				
49	139.00	33.64	5.0	0° 00' 00"	3832.35	3832.35				
50	140.00	33.76	5.0	0° 00' 00"	3832.35	3832.35				
51	141.00	33.88	5.0	0° 00' 00"	3832.35	3832.35				
52	142.00	34.00	5.0	0° 00' 00"	3832.35	3832.35				
53	143.00	34.12	5.0	0° 00' 00"	3832.35	3832.35				
54	144.00	34.24	5.0	0° 00' 00"	3832.35	3832.35				
55	145.00	34.36	5.0	0° 00' 00"	3832.35	3832.35				
56	146.00	34.48	5.0	0° 00' 00"	3832.35	3832.35				
57	147.00	34.60	5.0	0° 00' 00"	3832.35	3832.35				
58	148.00	34.72	5.0	0° 00' 00"	3832.35	3832.35				
59	149.00	34.84	5.0	0° 00' 00"	3832.35	3832.35				
60	150.00	34.96	5.0	0° 00' 00"	3832.35	3832.35				
61	151.00	35.08	5.0	0° 00' 00"	3832.35	3832.35				
62	152.00	35.20	5.0	0° 00' 00"	3832.35	3832.35				
63	153.00	35.32	5.0	0° 00' 00"	3832.35	3832.35				
64	154.00	35.44	5.0	0° 00' 00"	3832.35	3832.35				
65	155.00	35.56	5.0	0° 00' 00"	3832.35	3832.35				
66	156.00	35.68	5.0	0° 00' 00"	3832.35	3832.35				
67	157.00	35.80	5.0	0° 00' 00"	3832.35	3832.35				
68	158.00	35.92	5.0	0° 00' 00"	3832.35	3832.35				
69	159.00	36.04	5.0	0° 00' 00"	3832.35	3832.35				
70	160.00	36.16	5.0	0° 00' 00"	3832.35	3832.35				
71	161.00	36.28	5.0	0° 00' 00"	3832.35	3832.35				
72	162.00	36.40	5.0	0° 00' 00"	3832.35	3832.35				
73	163.00	36.52	5.0	0° 00' 00"	3832.35	3832.35				
74	164.00	36.64	5.0	0° 00' 00"	3832.35	3832.35				
75	165.00	36.76	5.0	0° 00' 00"	3832.35	3832.35				
76	166.00	36.88	5.0	0° 00' 00"	3832.35	3832.35				
77	167.00	37.00	5.0	0° 00' 00"	3832.35	3832.35				
78	168.00	37.12	5.0	0° 00' 00"	3832.35	3832.35				
79	169.00	37.24	5.0	0° 00' 00"	3832.35	3832.35				
80	170.00	37.36	5.0	0° 00' 00"	3832.35	3832.35				
81	171.00	37.48	5.0	0° 00' 00"	3832.35	3832.35				
82	172.00	37.60	5.0	0° 00' 00"	3832.35	3832.35				
83	173.00	37.72	5.0	0° 00' 00"	3832.35	3832.35				
84	174.00	37.84	5.0	0° 00' 00"	3832.35	3832.35				
85	175.00	37.96	5.0	0° 00' 00"	3832.35	3832.35				
86	176.00	38.08	5.0	0° 00' 00"	3832.35	3832.35				
87	177.00	38.20	5.0	0° 00' 00"	3832.35	3832.35				
88	178.00	38.32	5.0	0° 00' 00"	3832.35	3832.35				
89	179.00	38.44	5.0	0° 00' 00"	3832.35	3832.35				
90	180.00	38.56	5.0	0° 00' 00"	3832.35	3832.35				
91	181.00	38.68	5.0	0° 00' 00"	3832.35	3832.35				
92	182.00	38.80	5.0	0° 00' 00"	3832.35	3832.35				
93	183.00	38.92	5.0	0° 00' 00"	3832.35	3832.35				
94	184.00	39.04	5.0	0° 00' 00"	3832.35	3832.35				
95	185.00	39.16	5.0	0° 00' 00"	3832.35	3832.35				
96	186.00	39.28	5.0	0° 00' 00"	3832.35	3832.35				
97	187.00	39.40	5.0	0° 00' 00"	3832.35	3832.35				
98	188.00	39.52	5.0	0° 00' 00"	3832.35	3832.35				
99	189.00	39.64	5.0	0° 00' 00"	3832.35	3832.35				
100	190.00	39.76	5.0	0° 00' 00"	3832.35	3832.35				



TYPICAL CROSS SECTION
SHOWING CONTROL POINTS FOR ELEVATIONS
Scale 1" = 1'-0"

GENERAL CURVE LAYOUT SKETCHES

CIRCULAR CURVE
Scale 1" = 30'-0"

PROCEDURE:

1. First locate columns on line (B).
2. Columns on line (C) located as follows: Set up of Column (B) and sight T.S. Turn 90° angle (90°-0'00") and locate Col. (C).
3. Locate points on Retaining Wall - Line (A).
4. Angle (90°-0'00") becomes (90°-0'00") for opposite Deflection.

SPIRAL CURVE
Scale 1" = 30'-0"

PROCEDURE:

1. First locate columns on line (B).
2. Columns on line (C) located as follows: Set up of Column (B) and sight T.S. Turn 90° angle (90°-0'00") and locate Col. (C).
3. Locate points on Retaining Wall - Line (A).
4. Angle (90°-0'00") becomes (90°-0'00") for opposite Deflection.

ROAD BEAM SPACING

A roof beam is located over each column on line (B) and (C) and is located at the wall on line (A) at station of the line joining the columns.

The intermediate roof beams are located equidistant between the column spacings on Line (C) and Line (A) and over columns with "Bulls-eye" on Line (B).

Columns designated "A" and "B" located at double footings.

Columns designated "C" are located on Line (A) only.

REVISIONS

NO.	REVISIONS	NAME	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

DEPARTMENT OF PUBLIC WORKS
CANADA
DEVELOPMENT ENGINEERING BRANCH
STRUCTURES DIVISION

TUPPER - 3 SNOWSHED
T.C.M. 10-78
GLACIER NATIONAL PARK

GEOMETRICAL LAYOUT
ELEVATION AND CURVE DATA

JOB SUPERVISOR: J. SPANER
APPROVED: DATE: 25/1/67
DESIGNED: J. SPANER
CHECKED: J. SPANER
PROJECT NO.: S.D. - 108
SHEET: 12 OF 18