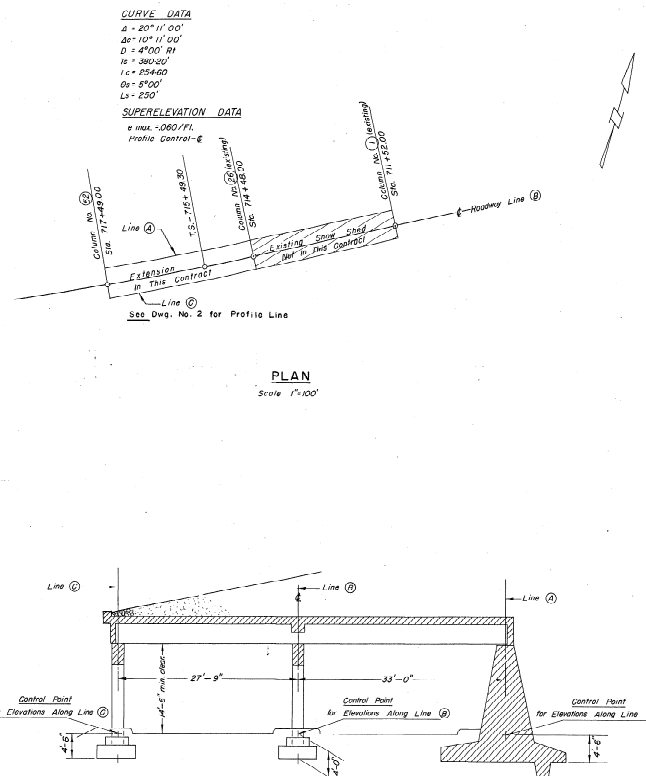


Instrument Setting Location	Column No.	Station	Along Line ① of Road		Deflection Angle Ht.	Along Line ②		Along Line ③
			Elevation	Centre to Centre of Columns		Elevation	Centre to Centre of Roofs Opposite Col.	
On Tangent	26	714+49.00	4054.46		Existing	Terminal	Column	
	27	+53.00	54.26	5.00'			4054.26	4054.26
	27m	150.00	54.36	5.00'				54.36
	28	+63.00	54.46	5.00'			54.46	54.46
	28m	+69.00	54.58	6.00'				54.58
	29	+75.00	54.70	6.00'			54.70	54.70
	29m	+81.00	54.82	6.00'				54.82
	30	+87.00	54.94	6.00'			54.94	54.94
	30m	+93.00	55.06	6.00'				55.06
	31	+99.00	55.18	6.00'			55.18	55.18
	31m	+105.00	55.30	6.00'				55.30
	32	+111.00	55.42	6.00'			55.42	55.42
	32m	+117.00	55.54	6.00'				55.54
	33	+123.00	55.66	6.00'			55.66	55.66
	33m	+129.00	55.78	6.00'				55.78
	34	+135.00	55.90	6.00'			55.90	55.90
	34m	+141.00	56.00	5.00'				56.00
	35a	+146.00	56.10	5.00'			56.10	56.10
	35b	+151.00	56.19				56.19	56.19
	35c	+156.00	56.18	4.00'			56.18	56.18
	T.S.	+161.00	56.28	5.00'				56.28
On Spiral Curve	36	+166.00	56.38	5.00'	0° 00' 09"	10° 0' 1/2"	56.45	9° 11' 3/4"
	36m	+171.00	56.50	5.00'			56.56	11° 11' 3/4"
	37	+176.00	56.62	6.00'	0° 00' 45"	8° 0' 1/2"	56.76	11° 11' 3/4"
	37m	+181.00	56.74	6.00'			56.82	11° 11' 3/4"
	38	+186.00	56.86	6.00'	0° 01' 49"	6° 0' 1/2"	57.09	11° 11' 3/4"
	38m	+191.00	56.98	6.00'			57.17	11° 11' 3/4"
	39	+196.00	57.10	6.00'	0° 03' 20"	12° 0' 1/2"	57.40	11° 11' 3/4"
	39m	+201.00	57.22	6.00'			57.48	11° 11' 3/4"
	40	+206.00	57.34	6.00'	0° 05' 10"	12° 0' 1/2"	57.73	11° 11' 3/4"
	40m	+211.00	57.46	6.00'			57.81	11° 11' 3/4"
	41	+216.00	57.58	6.00'	0° 07' 46"	12° 0' 1/2"	58.04	11° 11' 3/4"
	41m	+221.00	57.70	6.00'			58.12	11° 11' 3/4"
	42	+226.00	57.82	6.00'	0° 10' 41"	12° 0' 1/2"	58.37	11° 11' 3/4"
	42m	+231.00	57.94	6.00'			58.45	11° 11' 3/4"
	43	+236.00	58.06	6.00'	0° 14' 03"	12° 0' 1/2"	58.68	11° 11' 3/4"
	43m	+241.00	58.18	5.00'			58.76	11° 11' 3/4"
	44a	+246.00	58.26	5.00'			58.35	9° 10' 1/2"
	44b	+251.00	58.30	4.00'	0° 17' 53"	4° 0' 1/2"	59.00	3° 11' 3/4"
	44c	+256.00	58.34	5.00'			59.08	3° 11' 3/4"
	45	+261.00	58.44	5.00'	0° 22' 10"	10° 1' 1/2"	59.32	9° 10' 1/2"
	45m	+266.00	58.54	6.00'			59.32	9° 10' 1/2"
	46	+271.00	58.66	6.00'			59.40	11° 10' 1/2"
	46m	+276.00	58.78	6.00'	0° 26' 58"	12° 1' 1/2"	59.65	11° 10' 1/2"
	47	+281.00	58.90	6.00'	0° 31' 08"	12° 1' 1/2"	59.96	11° 10' 1/2"
	47m	+286.00	59.02	6.00'			60.28	11° 10' 1/2"
	48	+291.00	59.14	6.00'	0° 37' 28"	12° 1' 1/2"	60.59	11° 9' 3/4"
	48m	+296.00	59.26	6.00'			60.80	11° 9' 3/4"
	49	+301.00	59.38	6.00'	0° 43' 56"	12° 1' 1/2"	61.24	11° 9' 3/4"
	49m	+306.00	59.50	6.00'			61.51	11° 9' 3/4"
	50	+311.00	59.62	6.00'	0° 50' 31"	12° 1' 1/2"	61.83	11° 9' 3/4"
	50m	+316.00	59.74	6.00'			62.14	11° 9' 3/4"
	51	+321.00	59.86	6.00'	0° 57' 35"	12° 1' 1/2"	62.49	11° 9' 3/4"
	51m	+326.00	59.98	6.00'			62.84	11° 9' 3/4"
	52	+331.00	60.10	5.00'	1° 03' 48"	10° 1' 1/2"	63.51	9° 9' 3/4"

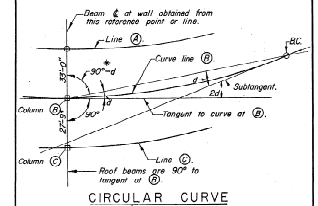
* ELEVATIONS are given to the Control Points—shown on Typical Cross Section.



TYPICAL CROSS SECTION

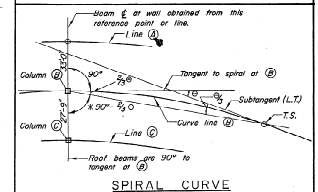
Scale 1/8" = 1'-0"

GENERAL CURVE LAYOUT SKETCHES



PROCEDURE—

1. First locate columns on line ①
2. Columns on line ② located as follows—Set up at column ① and sight B.C.—Turn left angle $\frac{1}{2}(90^\circ - \Delta)$ and locate column ②
3. Locate points on retaining wall—line ③
4. Δ —intersection angle at B.C. or E.C. to any point on the Circular Curve
- * Angle $(90^\circ - \Delta)$ becomes $(90^\circ + \Delta)$ for opposite deflection.



PROCEDURE—

1. First locate columns on line ①
2. Columns on line ② located as follows—Set up at column ① and sight T.S.—turn off angle $\frac{1}{2}(90^\circ - \Delta)$ and locate column ②
3. Locate points on retaining wall—line ③
- 4a) Δ —Spiral angle of any point on the spiral curve.
 b) Δ —Intersection angle at T.S. or S.T. to any point on the spiral curve.
- * Angle $90^\circ - \frac{1}{2}\Delta$ becomes $90^\circ + \frac{1}{2}\Delta$ for opposite deflection.

ROOF BEAM FINISHES

1. A roof beam is located over each column on line ① and ② and is located at the wall on line ③ on extension of the line joining the columns.
2. The intermediate roof beams are located equidistant between the columns spacing on line ① and line ②.
3. Columns designated "a" and "b" located at double footings.
4. Columns designated "m" are located on line ③ only.

NO.	REVISIONS	NAME	DATE
DEPARTMENT OF PUBLIC WORKS			
CANADA			
DEVELOPMENT ENGINEERING BRANCH			
STRUCTURES DIVISION			
LEN'S SNOWSHED EXTENSION			
MILE 11.68			
GLACIER NATIONAL PARK			
LAYOUT DATA			
JOB SUPERVISOR	DESIGN	CHECK	J. T. D.
APPROVED DATE 27/1/66	DRAWN	CHECK	D. B. J. M.
CHIEF STRUCTURES DIVISION		PROJECT NO.	
APPROVED DATE 27/1/66	PROJECT NO.		SD-164
CHIEF ENGINEER		SHEET 4 of 19	

AA002285