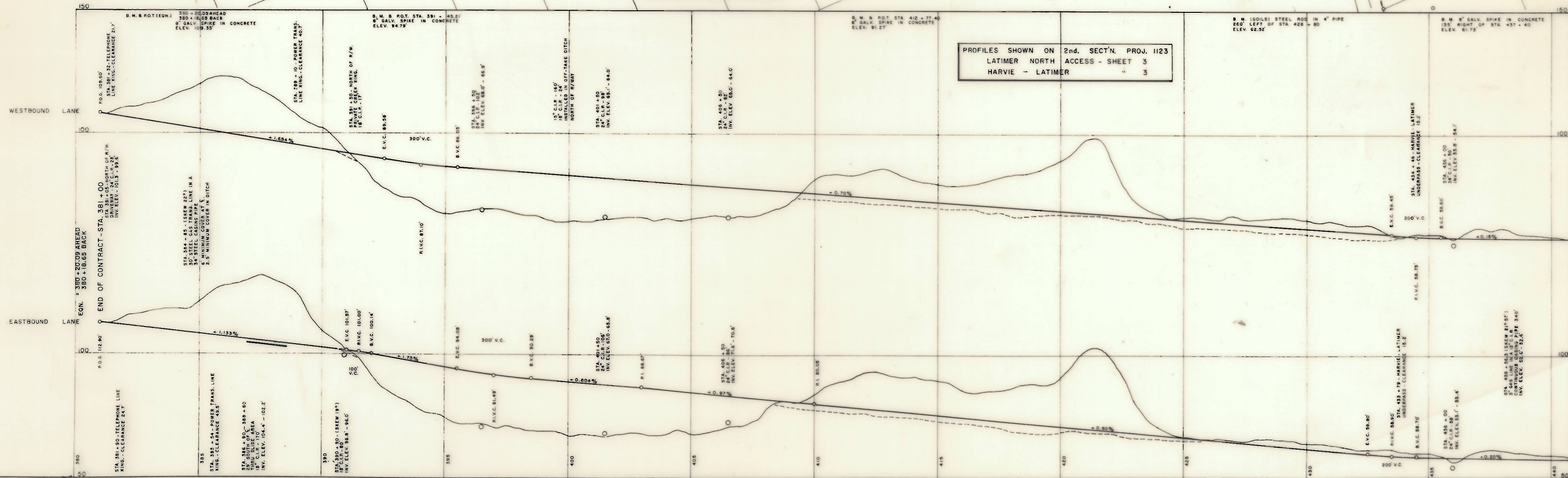
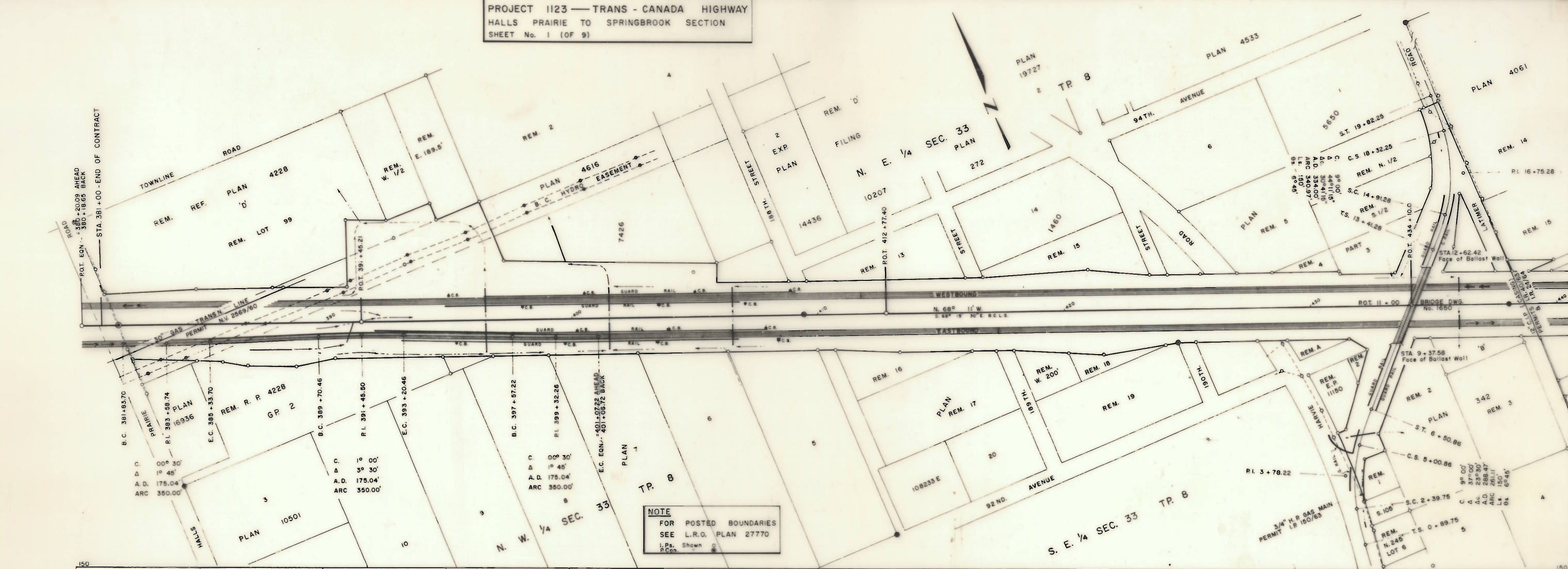
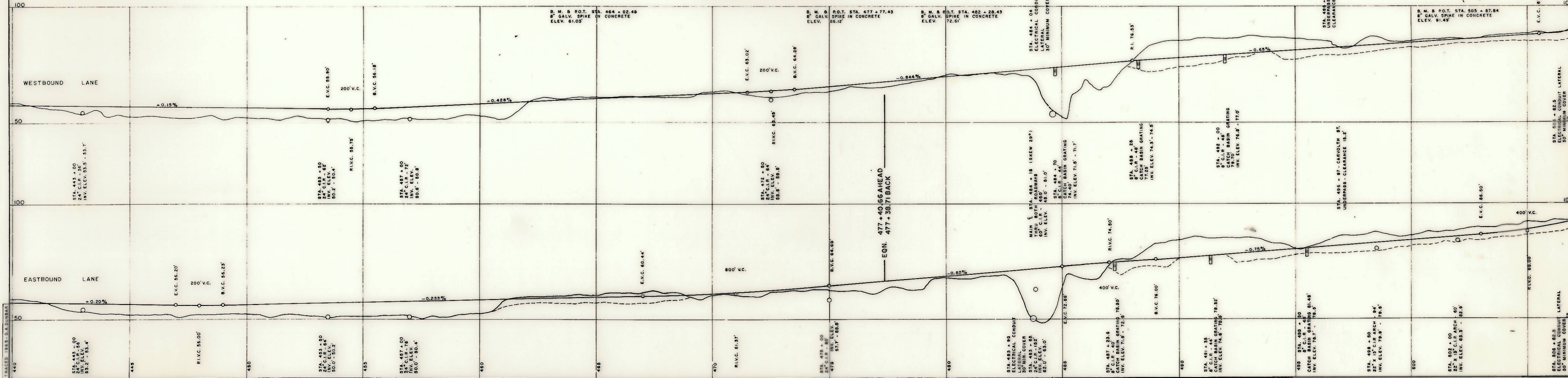
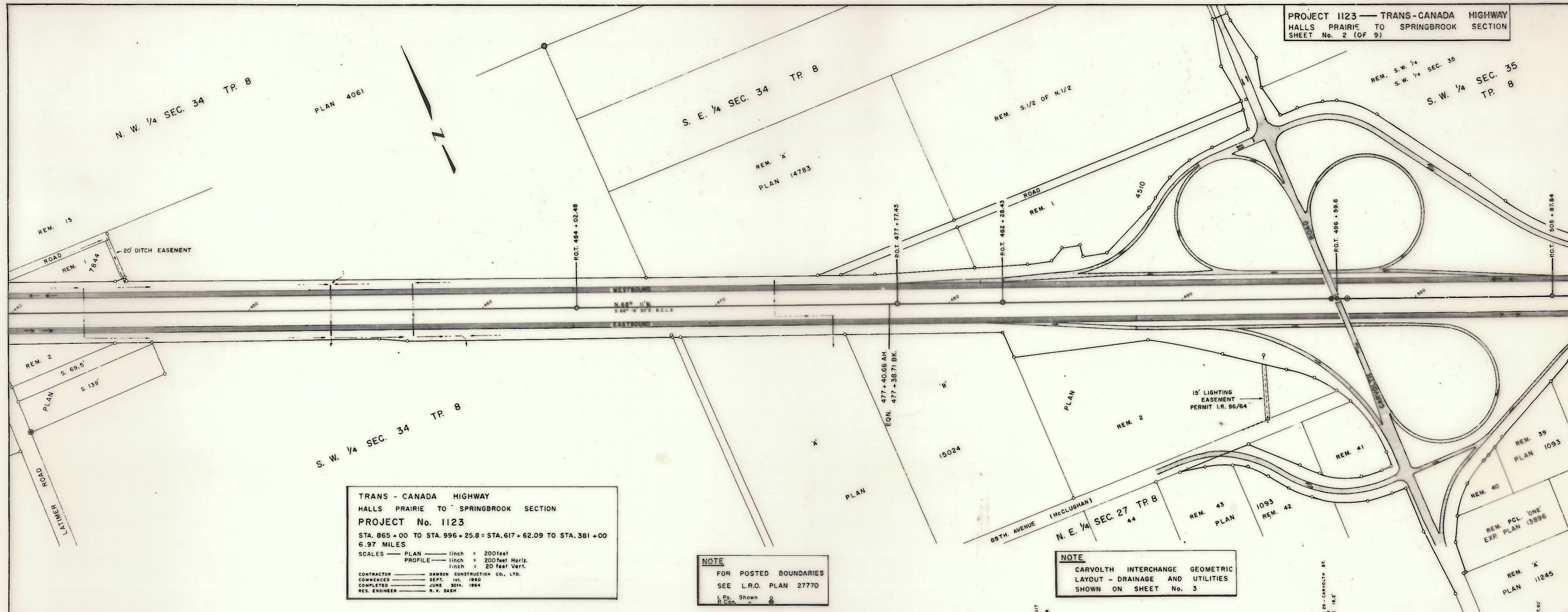


PROJECT 1123 — TRANS - CANADA HIGHWAY
HALLS PRAIRIE TO SPRINGBROOK SECTION
SHEET No. 1 (OF 9)





CURVE DATA FOR N. E. QUADRANT

PROJECT 1123 — TRANS - CANADA HIGHWAY
HALLS PRAIRIE TO SPRINGBROOK SECTION
SHEET No. 3 (OF 9)

CURVE No. 1	
CHAINAGE	DATA
T.S. 0+00	C. 5° 30'
S.C. 1+50	Δ 55° 30'
C.S. 10+09.45	Δc. 47° 16'
S.T. 11+59.45	A.D. 623.54'
R.L. 6+23.54	ARC 859.45'
	Ls. 150'
	Os. 4° 07'

CURVE No. 2	
CHAINAGE	DATA
T.S. 16+59.61	C. 18° 00'
S.C. 18+59.61	Δ 56° 07'
C.S. 19+71.36	Δc. 20° 07'
S.T. 21+71.36	A.D. 272.12'
R.L. 19+31.73	ARC 111.75'
	Ls. 200'
	Os. 18° 00'

CURVE No. 3	
CHAINAGE	DATA
T.S. 0+00	C. 24° 00'
S.C. 2+00	Δ 292° 14'
C.S. 12+17.50	Δc. 244° 14'
S.T. 14+17.50	ARC 1017.50'
	RAD. 238.73'
	Ls. 200'
	Os. 24° 00'

CURVE No. 4	
CHAINAGE	DATA
B.C. 3+98.33	C. 2° 00'
E.C. 5+51.25	Δ 3° 03' 30"
P.L. 4+74.81	A.D. 76.48'
	ARC 152.92'

CURVE DATA FOR N. W. QUADRANT	
CURVE No. 5	
CHAINAGE	DATA
T.S. 24+14.49	C. 14° 00'
S.C. 25+64.49	Δ 38° 32' 30"
C.S. 26+68.35	Δc. 140° 32' 50"
S.T. 28+21.31	A.D. 208.82'
R.L. 26+21.31	ARC 103.86'
	Ls. 150'
	Os. 10° 30'

CURVE No. 6	
CHAINAGE	DATA
T.S. 28+20.43	C. 14° 00'
S.C. 29+70.43	Δ 42° 18' 30"
E.C. 32+72.64	Δc. 42° 18' 30"
R.L. to P.L. 2.87'	A.D. 276.38'
	ARC 302.21'
	Ls. 150'
	Os. 10° 30'

CURVE No. 7	
CHAINAGE	DATA
C. 3° 00'	
Δ 3° 36'	
A.D. 120.00'	
ARC 120.00'	

CURVE No. 8	
CHAINAGE	DATA
B.C. 17+15.68	C. 2° 00'
E.C. 18+30.26	Δ 2° 17' 30"
P.L. 17+72.98	A.D. 97.30'
	ARC 114.59'

CURVE No. 9	
CHAINAGE	DATA
T.S. 11+06.02	C. 24° 00'
S.C. 13+06.02	Δ 244° 54'
C.S. 21+25.43	Δc. 196° 54'
S.T. 23+25.43	ARC 820.41'
	RAD. 238.73'
	Ls. 200'
	Os. 24° 00'

CURVE DATA FOR S. W. QUADRANT	
CURVE No. 10	
CHAINAGE	DATA
C. 2° 00'	
Δ 3° 03' 30"	
A.D. 76.48'	
ARC 152.92'	

CURVE No. 11	
CHAINAGE	DATA
B.C. 7+92.00	C. 6° 15'
E.C. 18+76.26	Δ 67° 46'
P.L. 14+07.63	A.D. 618.63'
	ARC 1084.26'
	RAD. 916.73'

CURVE No. 12	
CHAINAGE	DATA
T.S. 0+57.84	C. 14° 00'
S.C. 2+07.84	Δ 50° 02' 30"
C.S. 4+18.28	Δc. 29° 02' 30"
S.T. 5+65.29	A.D. 267.02'
R.L. 3+24.66	ARC 207.44'
	Ls. 150'
	Os. 10° 30'

CURVE No. 13	
CHAINAGE	DATA
T.S. 5+66.28	C. 14° 00'
S.C. 7+16.28	Δ 50° 53' 30"
C.S. 9+28.79	Δc. 28° 53' 30"
S.T. 10+78.79	A.D. 213.51'
P.L. 8+36.03	ARC 213.51'
	Ls. 150'
	Os. 10° 30'

CURVE DATA FOR S. E. QUADRANT	
CURVE No. 14	
CHAINAGE	DATA
T.S. 0+72.79	C. 14° 00'
S.C. 2+72.79	Δ 65° 00'
C.S. 5+37.08	Δc. 37° 00'
S.T. 7+37.08	A.D. 363.12'
R.L. 4+35.91	ARC 264.29'
	Ls. 200'
	Os. 14° 00'

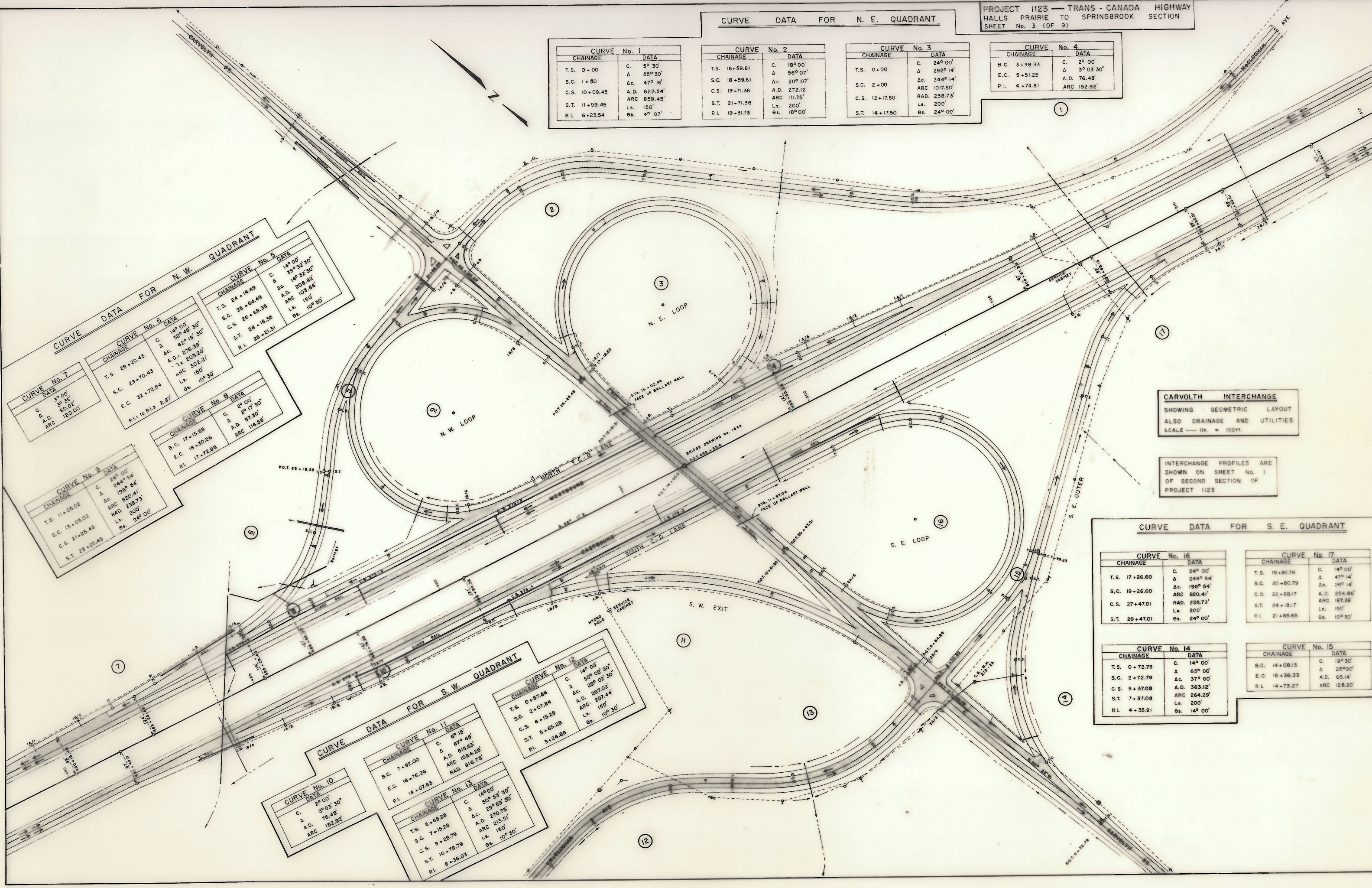
CURVE No. 15	
CHAINAGE	DATA
B.C. 14+08.13	C. 19° 30'
E.C. 15+36.33	Δ 25° 00'
P.L. 14+73.27	A.D. 65.14'
	ARC 128.20'

CURVE No. 16	
CHAINAGE	DATA
T.S. 17+26.60	C. 24° 00'
S.C. 19+26.60	Δ 244° 54'
C.S. 27+47.01	Δc. 196° 54'
S.T. 29+47.01	ARC 820.41'
	RAD. 238.73'
	Ls. 200'
	Os. 24° 00'

CURVE No. 17	
CHAINAGE	DATA
T.S. 19+30.79	C. 14° 00'
S.C. 20+80.79	Δ 47° 14'
C.S. 22+68.17	Δc. 26° 14'
S.T. 24+18.17	A.D. 254.86'
R.L. 21+85.65	ARC 187.38'
	Ls. 150'
	Os. 10° 30'

CARVOLTH INTERCHANGE
SHOWING GEOMETRIC LAYOUT
ALSO DRAINAGE AND UTILITIES
SCALE — 1 in. = 100 ft.

INTERCHANGE PROFILES ARE
SHOWN ON SHEET No. 1
OF SECOND SECTION OF
PROJECT 1123



[illegible]

PROFILES SHOWN ON SECOND SECTION PROJ. 1123
 STRAWBERRY - ALEXANDER CONNEX SHEET 3
 ALEXANDER SOUTH ACCESS " 3
 SHANNON NORTH ACCESS " 3

NOTE
 FOR POSTED BOUNDARIES
 SEE L.R.O. PLAN 23602
 1 P.S. Shown
 2 P.S. Shown

1965

WESTBOUND LANE

EASTBOUND LANE

STA. 506 + 42.5
 ELECTRICAL CONDUIT LATERAL
 30" MINIMUM COVER

STA. 507 + 15 - TELEPHONE
 LINE XING - CLEARANCE 22.5'

STA. 507 + 95 (SHEW 11' 30")
 24" C.I.P. - 72"
 INV. ELEV. 95.5' - 95.2'

B.V.C. 93.60'

STA. 511 + 85
 24" C.I.P. - 80"
 INV. ELEV. 95.0' - 92.7'

B.M. & P.O.T. STA. 519 + 99.30
 8" GALV. SPIKE IN CONCRETE
 ELEV. 109.63

STA. 532 + 80 - 24" C.I.P. - 72"
 INV. ELEV. 128.6' - 128.3'
 12" C.I.P. - 77"

STA. 534 + 50 NORTH SIDE
 24" C.I.P. - 100"

MAIN E. 535 + 85.3 (SHEW 21")
 INV. ELEV. 128.6' - 128.3'
 72" C.I.P. - 300"

B.M. & P.O.T. STA. 535 + 34.57
 8" GALV. SPIKE IN CONCRETE
 ELEV. 154.67

STA. 540 + 50
 INV. ELEV. 158.7' - 153.7'

B.M. & P.O.T. STA. 552 + 44.99
 8" GALV. SPIKE IN CONCRETE
 ELEV. 202.37

STA. 555 + 80 (SHEW 22")
 24" C.I.P. - 72"
 INV. ELEV. 186.1' - 184.6'
 FOR POSSIBLE FUTURE SERVICES

STA. 554 + 05 - TELEPHONE
 LINE XING - CLEARANCE 27.0'

STA. 559 + 75
 24" C.I.P. - 85"
 INV. ELEV. 199.5' - 198.0'

STA. 563 + 00
 24" C.I.P. - 85"
 INV. ELEV. 206.0' - 205.0'

STA. 563 + 40 - TELEPHONE
 LINE XING - CLEARANCE

STA. 568 + 00
 24" C.I.P. - 85"
 INV. ELEV. 206.0' - 207.0'

STA. 540 + 40 TO STA. 541 + 38
 SLOPE PIPE - SOUTH SIDE
 24" C.I.P. - 50"
 INV. ELEV. 162.5' - 162.5'

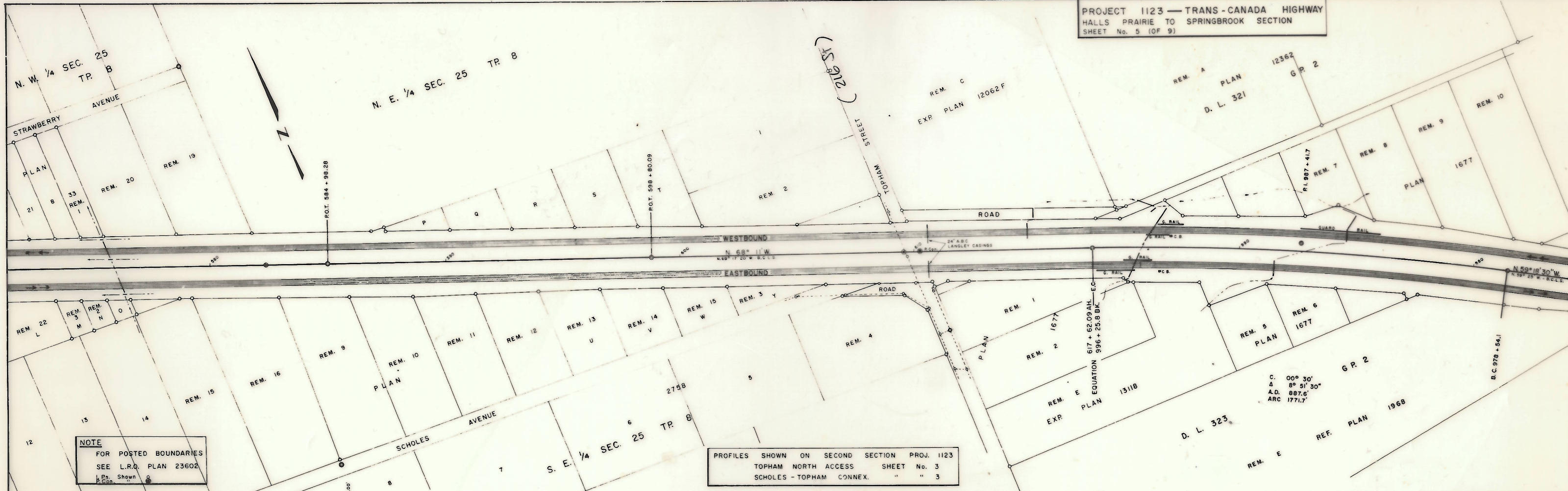
STA. 541 + 40 - SOUTH SIDE
 22" X 15" C.I.P. ARCH - 12"

STA. 549 + 00
 SLOPE PIPE - SOUTH SIDE
 12" C.I.P. - 50"

STA. 554 + 33
 SLOPE PIPE - SOUTH SIDE
 24" C.I.P. - 50"
 INV. ELEV. 201.2' - 199.8'

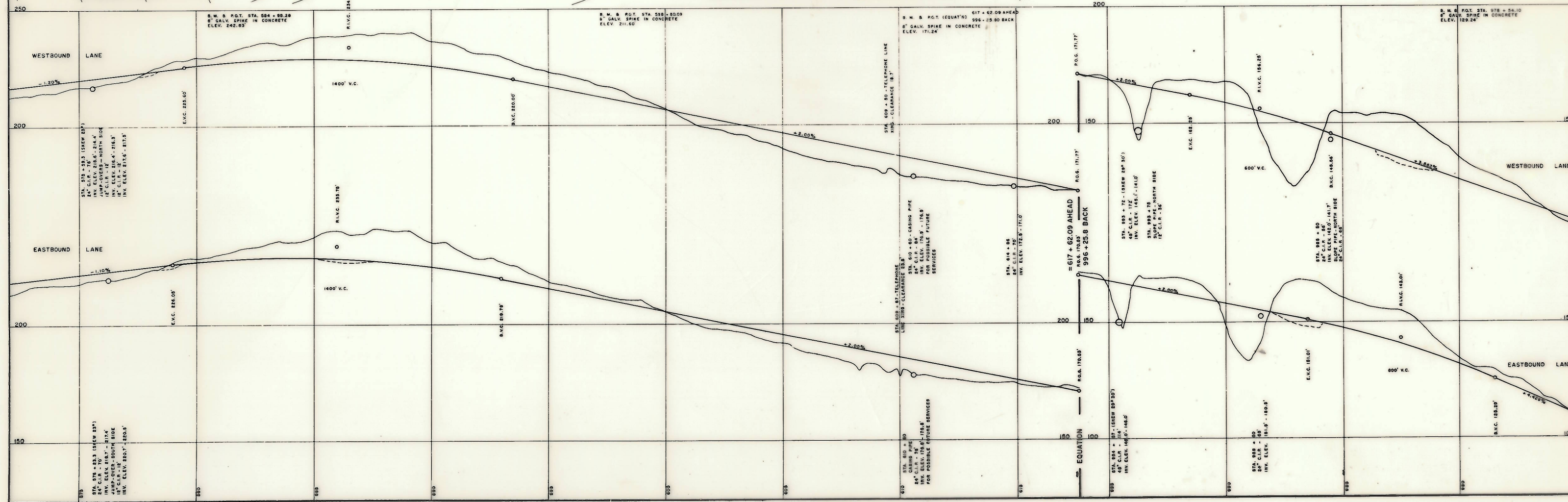
STA. 559 + 10 (SHEW 82")
 24" C.I.P. - 72"
 INV. ELEV. 191.0' - 190.0'
 FOR POSSIBLE FUTURE SERVICES

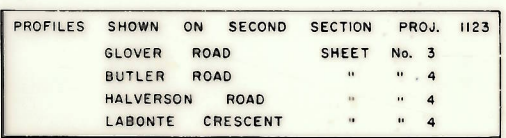
STA. 559 + 75
 24" C.I.P. - 85"
 INV. ELEV. 201.0' - 200.7'

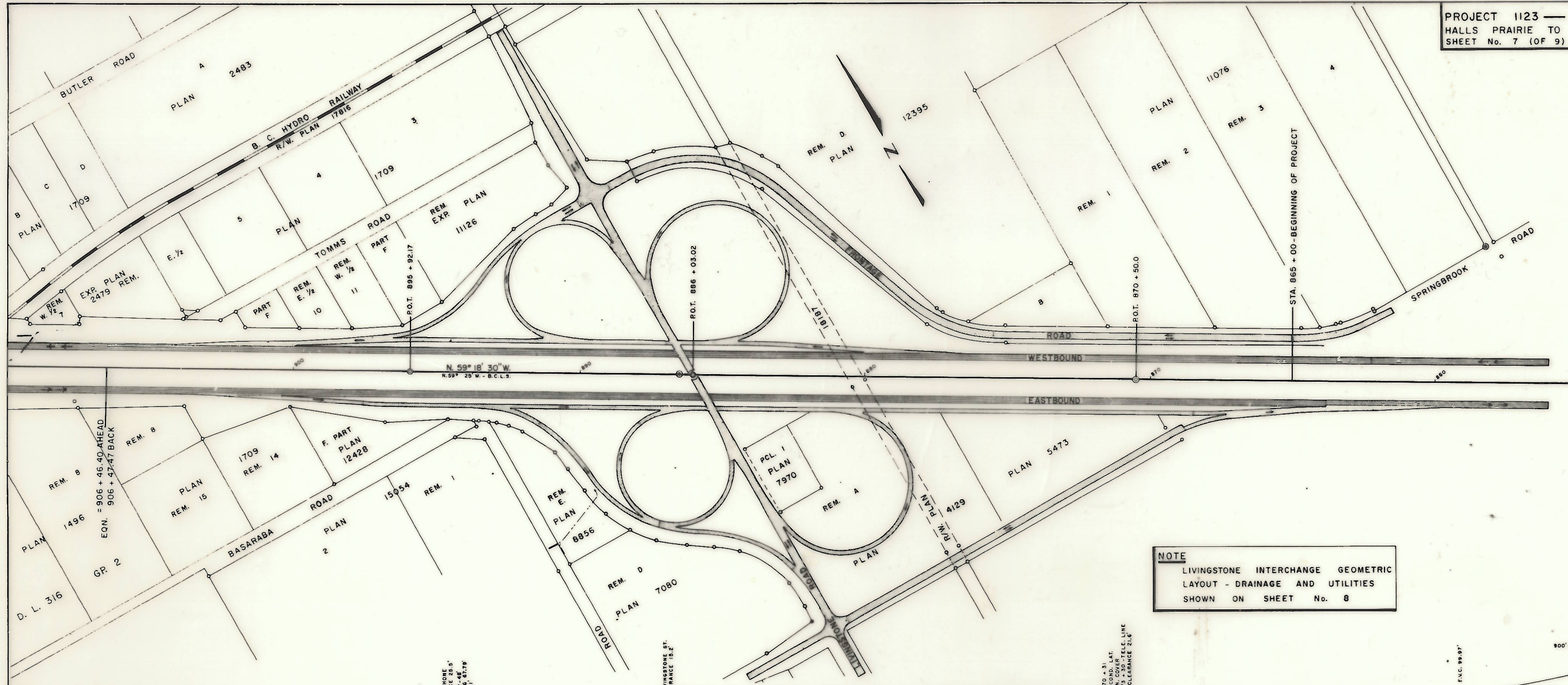


NOTE
FOR POSTED BOUNDARIES
SEE L.R.O. PLAN 23602

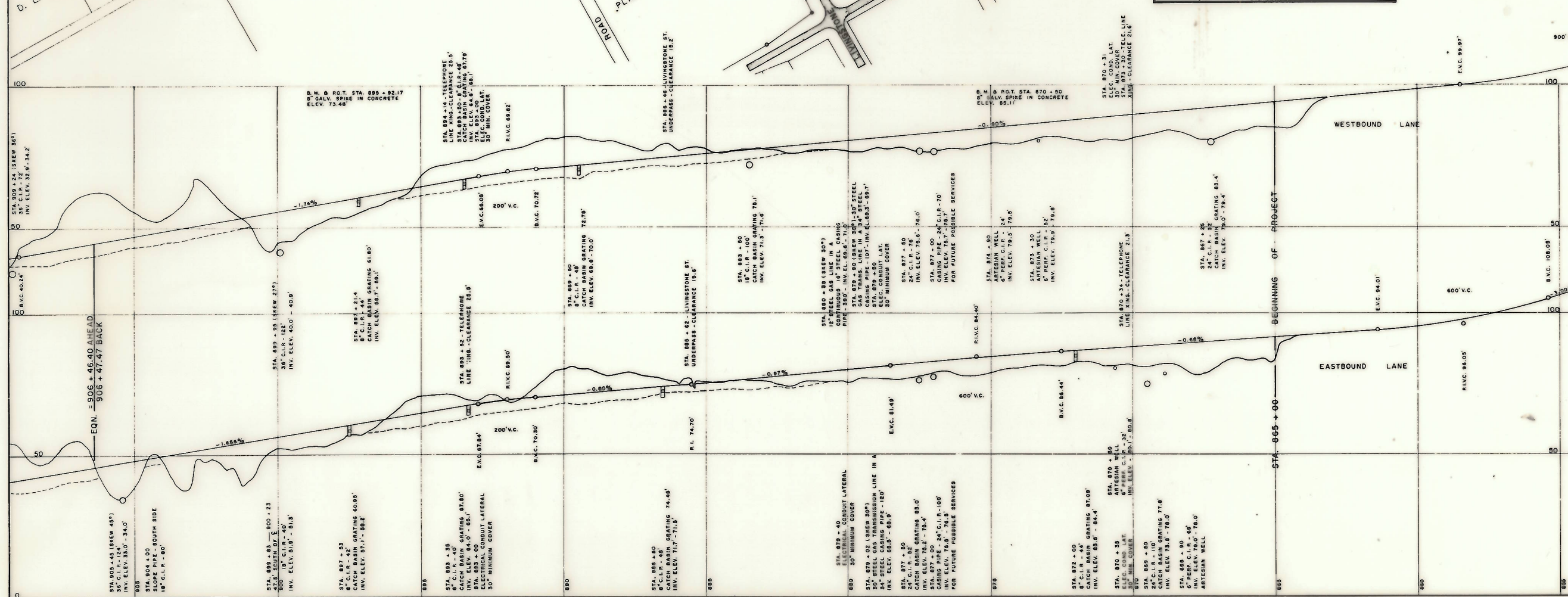
PROFILES SHOWN ON SECOND SECTION PROJ. 1123
TOPHAM NORTH ACCESS SHEET No. 3
SCHOLES - TOPHAM CONNEX. " " 3







NOTE
LIVINGSTONE INTERCHANGE GEOMETRIC
LAYOUT - DRAINAGE AND UTILITIES
SHOWN ON SHEET No. 8



CURVE DATA FOR N. W. QUADRANT

CURVE No. 8	
DATA	
C.	3° 00'
Δ	3° 36'
A.D.	60.02'
ARC	120.00'

CURVE No. 7	
CHAINAGE	DATA
T.S.	35+37.53
S.C.	36+77.53
E.C.	39+35.36
P.L.	37+80.38
P.L. To P.L.	2.83'
C.	15° 00'
Δ	49° 10' 30"
A.D.	242.85'
A.D.	174.78'
ARC	257.83'
Ls.	140'
Os.	10° 30'

CURVE No. 6	
CHAINAGE	DATA
T.S.	32+15.4
S.C.	33+65.4
E.C.	33+86.9
S.T.	35+36.9
P.L.	33+77.8
C.	14° 00'
Δ	24° 00'
A.D.	162.39'
ARC	21.5'
Ls.	150'
Os.	10° 30'

CURVE No. 9	
CHAINAGE	DATA
B.C.	16+34.72
E.C.	17+49.30
P.L.	16+92.02
C.	2° 00'
Δ	2° 17' 30"
A.D.	57.30'
ARC	114.58'

CURVE No. 10	
CHAINAGE	DATA
T.S.	11+11.65
S.C.	13+71.65
E.C.	19+28.85
S.T.	21+28.85
C.	29° 00'
Δ	236° 59' 30"
A.D.	617.2'
RAD.	197.57'
Ls.	200'
Os.	29° 00'

CURVE DATA FOR N. E. QUADRANT

CURVE No. 3	
CHAINAGE	DATA
T.S.	22+62.24
S.C.	24+62.24
E.C.	28+00.70
S.T.	30+00.70
P.L.	26+73.32
C.	13° 00'
Δ	70° 00'
A.D.	44° 00'
A.D.	411.08'
ARC	338.54'
Ls.	200'
Os.	13° 00'

CURVE No. 2	
CHAINAGE	DATA
T.S.	13+17.01
S.C.	15+17.01
E.C.	16+23.62
S.T.	18+23.62
P.L.	15+78.01
C.	13° 00'
Δ	39° 51' 30"
A.D.	13° 51' 30"
A.D.	261.00'
ARC	106.61'
Ls.	200'
Os.	13° 00'

CURVE No. 5	
CHAINAGE	DATA
B.C.	4+17.95
E.C.	5+76.87
P.L.	4+94.43
C.	2° 00'
Δ	3° 03' 30"
A.D.	76.48'
ARC	152.92'

CURVE No. 4	
CHAINAGE	DATA
T.S.	0+00
S.C.	2+00
E.C.	12+50.6
S.T.	14+50.6
C.	24° 00'
Δ	300° 08' 30"
A.D.	252° 08' 30"
ARC	1050.6
RAD.	238.73
Ls.	200'
Os.	24° 00'

NOTE
CONTINUATION OF LIVINGSTONE
INTERCHANGE SHOWN ON
SHEET No. 9

LIVINGSTONE INTERCHANGE
SHOWING GEOMETRIC LAYOUT
ALSO DRAINAGE AND UTILITIES
SCALE - 1 in. = 100 ft.

INTERCHANGE PROFILES ARE
SHOWN ON SHEET No. 2
OF SECOND SECTION OF
PROJECT 1123

CURVE DATA FOR S. W. QUADRANT

CURVE No. 11	
DATA	
C.	2° 00'
Δ	3° 03' 30"
A.D.	76.48'
ARC	152.92'

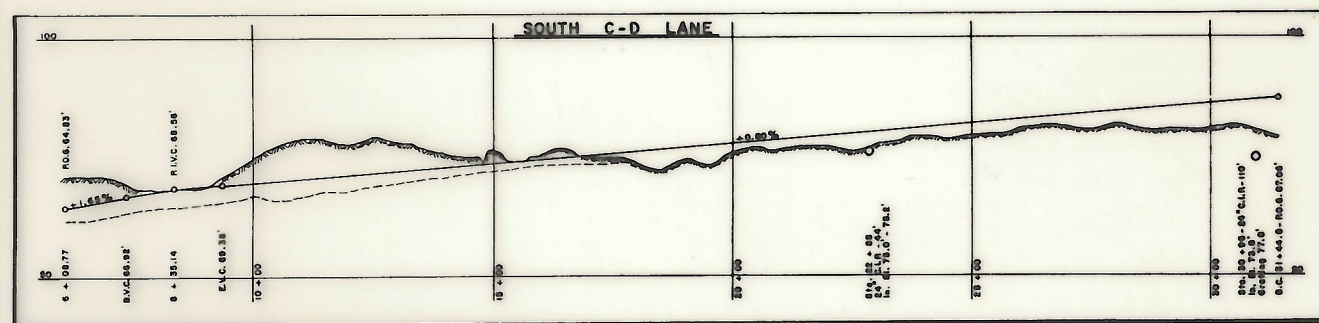
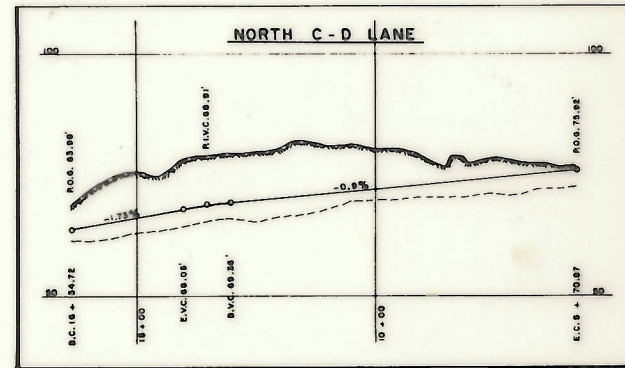
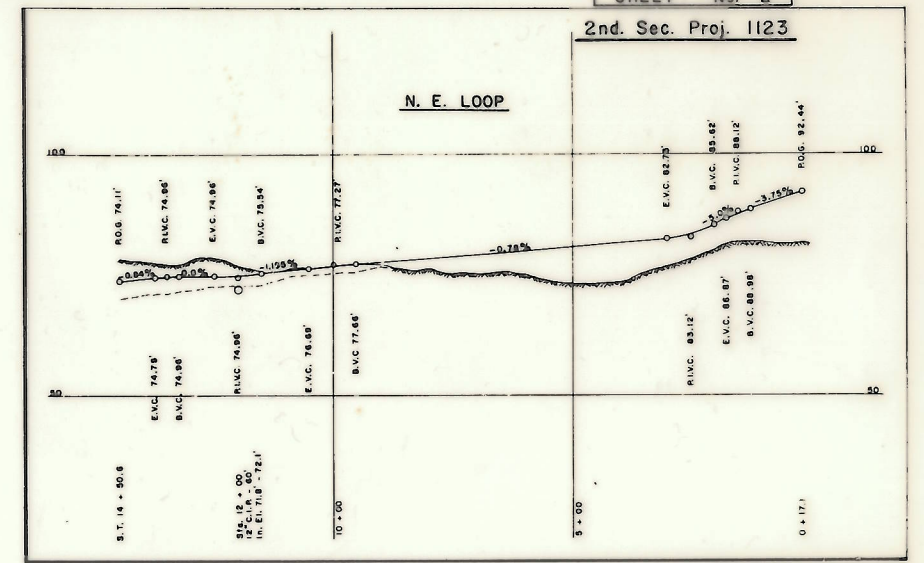
CURVE No. 12	
CHAINAGE	DATA
T.S.	6+07.89
S.C.	7+57.89
E.C.	9+73.13
S.T.	11+23.13
P.L.	8+80.58
C.	14° 00'
Δ	51° 08'
A.D.	271.81'
ARC	215.24'
Ls.	150'
Os.	10° 30'

CURVE No. 13	
CHAINAGE	DATA
T.S.	11+27.69
S.C.	12+77.69
E.C.	14+63.33
S.T.	16+13.33
P.L.	13+81.53
C.	14° 00'
Δ	46° 59' 30"
A.D.	253.84'
ARC	185.64'
Ls.	150'
Os.	10° 52' 30"

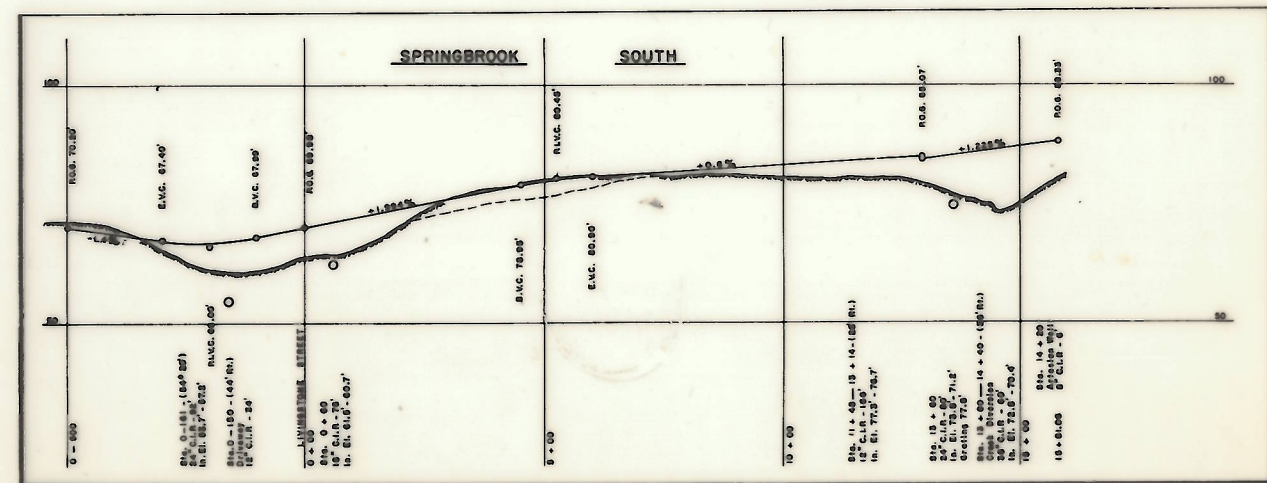
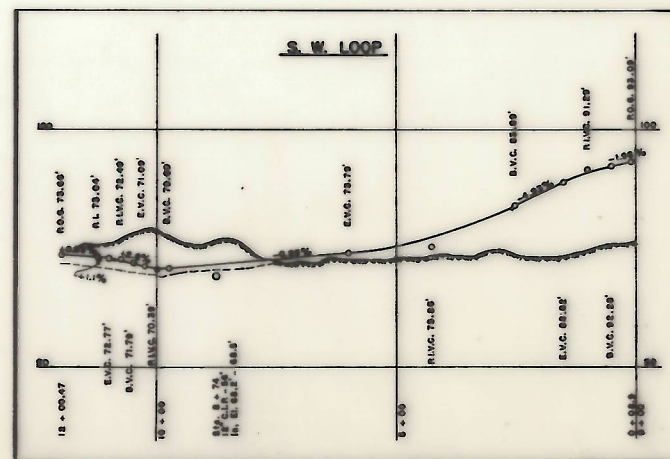
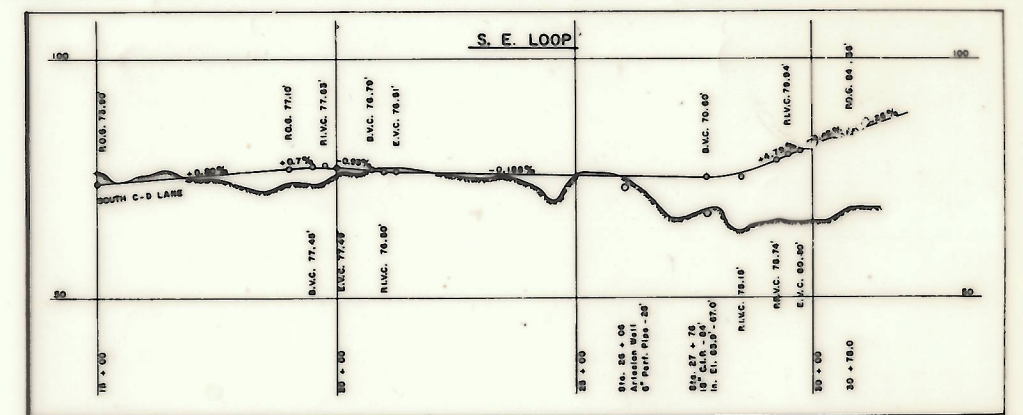
CURVE No. 14	
CHAINAGE	DATA
T.S.	16+13.33
S.C.	17+63.33
E.C.	19+97.60
S.T.	21+47.60
P.L.	18+98.35
C.	14° 30'
Δ	55° 43'
A.D.	285.02'
ARC	234.27'
Ls.	150'
Os.	10° 52' 30"

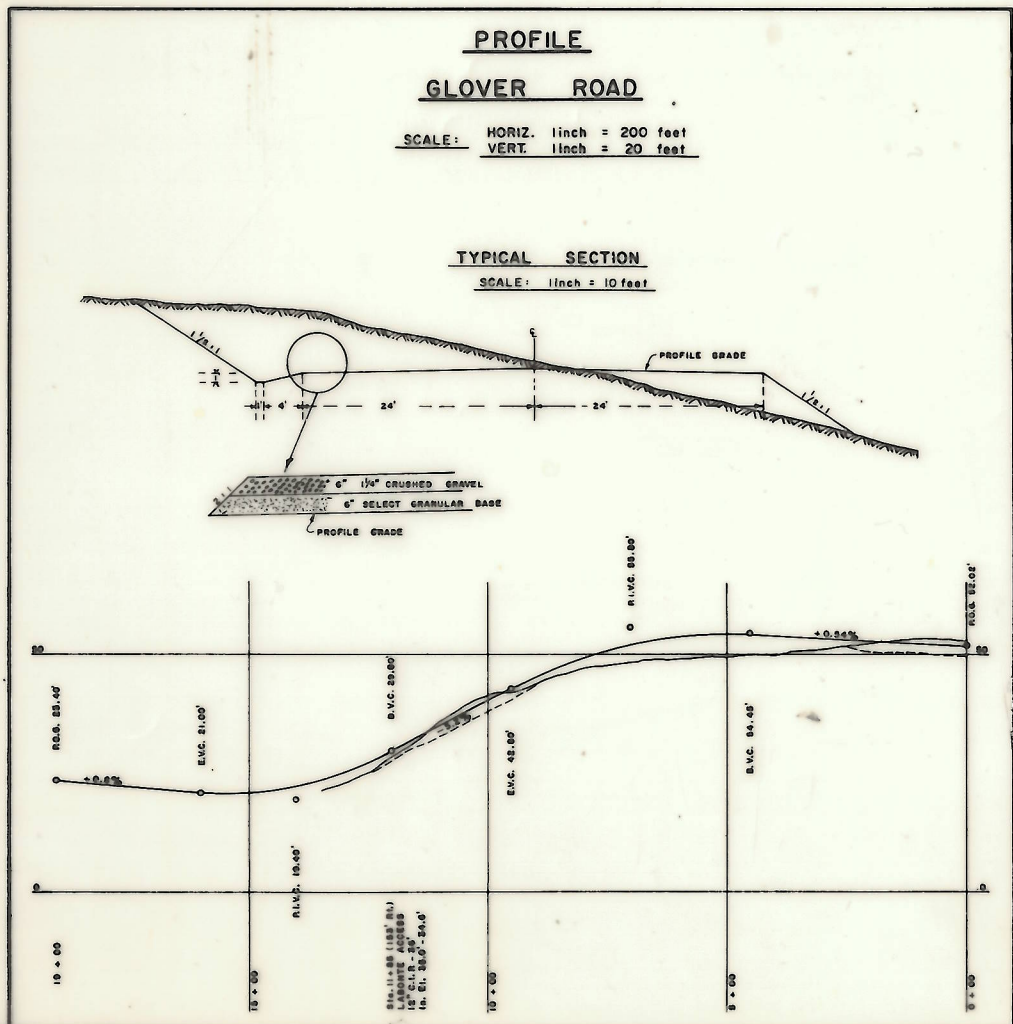
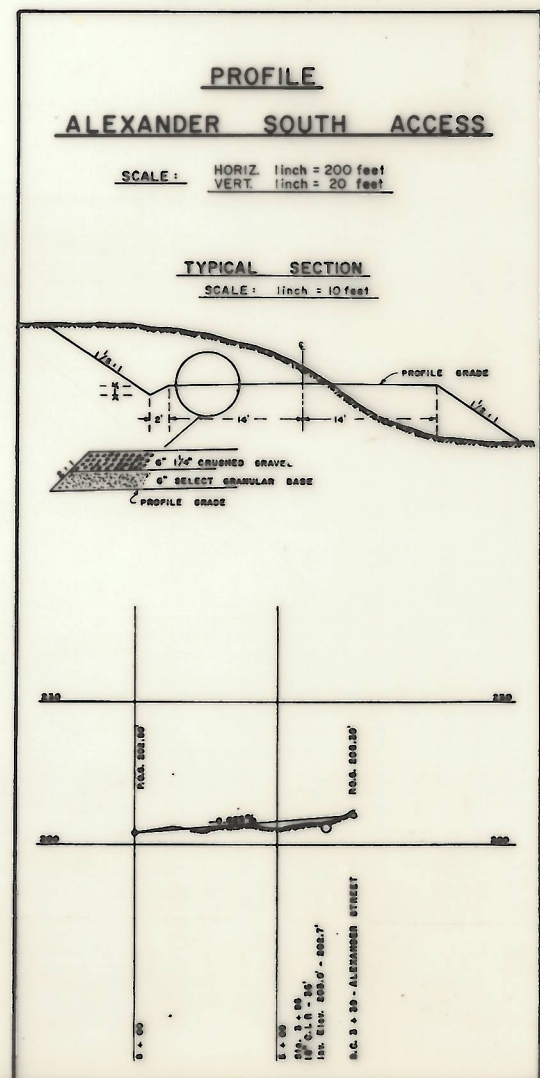
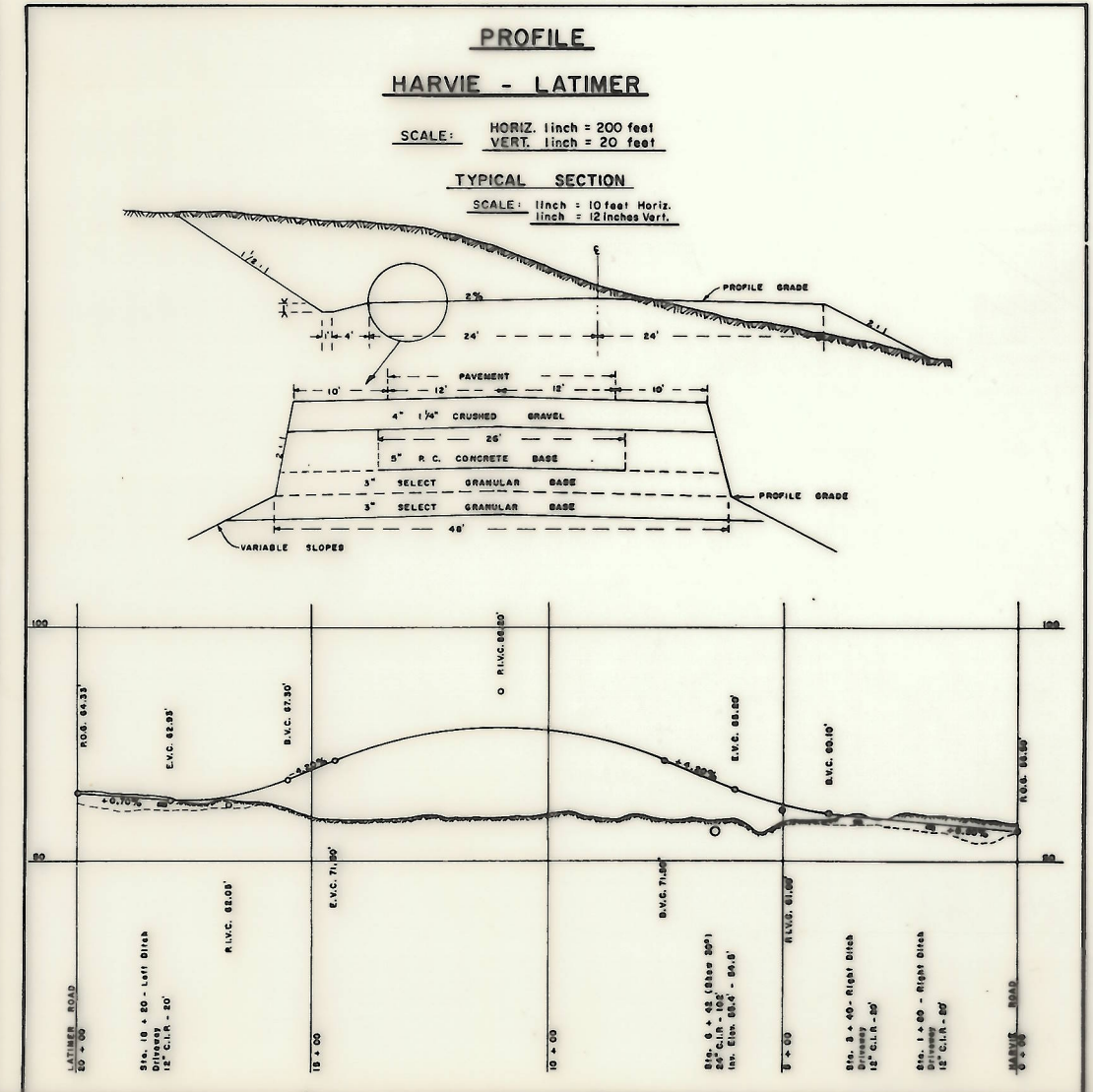
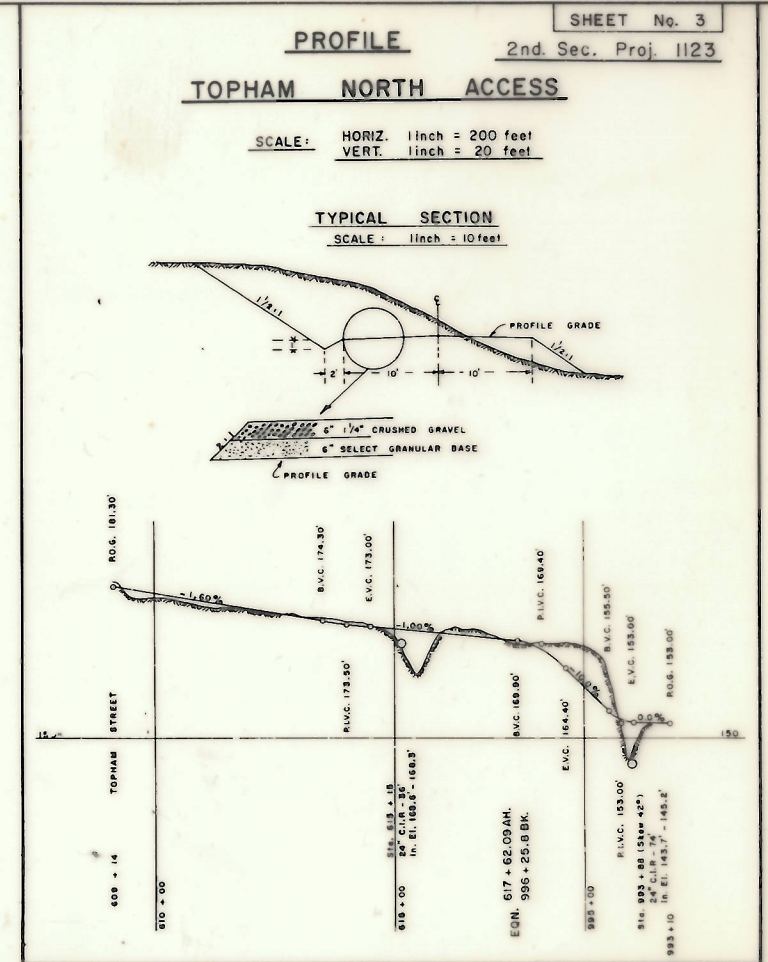
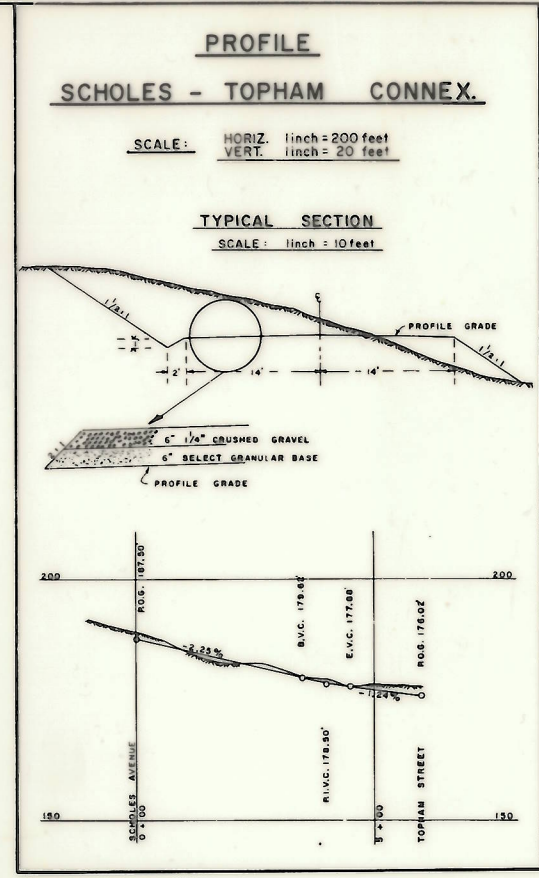
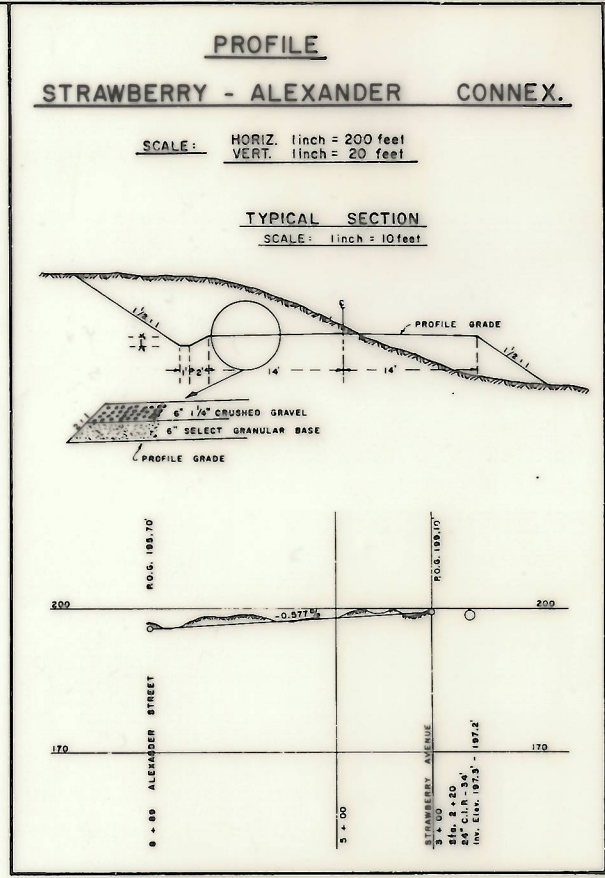
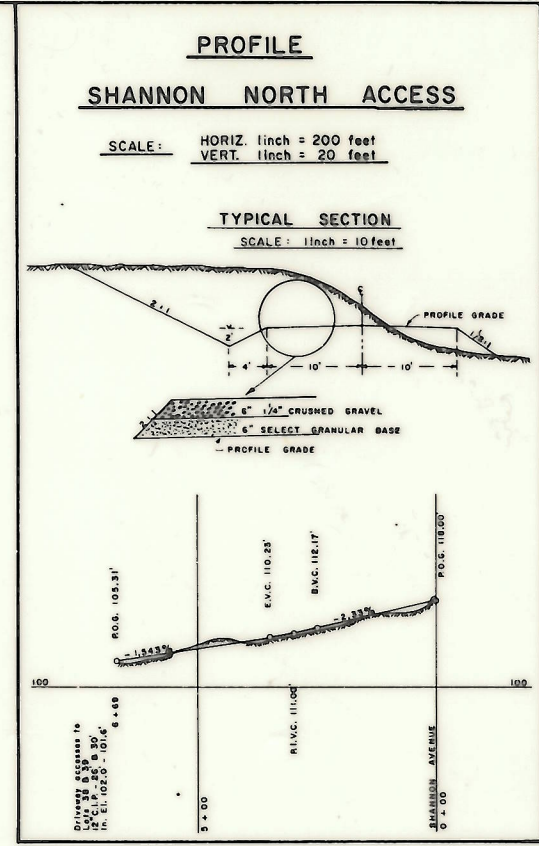
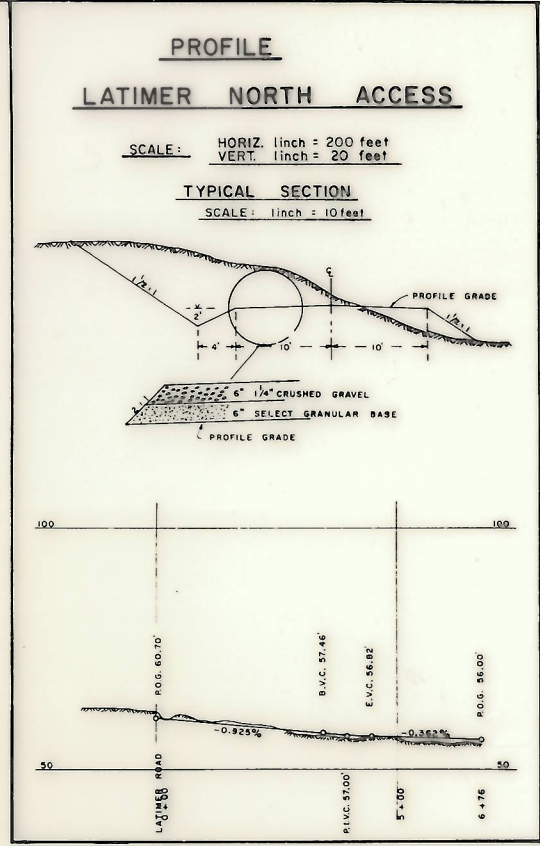
CURVE No. 15	
CHAINAGE	DATA
T.S.	0+00
S.C.	2+00
E.C.	10+00.47
S.T.	12+00.47
C.	30° 00'
Δ	300° 08' 30"
A.D.	240° 08' 30"
ARC	800.47'
RAD.	190.99'
Ls.	200'
Os.	30° 00'

CURVE No. 16	
CHAINAGE	DATA
T.S.	18+54.7
S.C.	20+54.7
E.C.	28+42.2
S.T.	30+42.2
C.	24° 00'
Δ	236° 59' 30"
A.D.	188° 59' 30"
ARC	787.46'
Ls.	200'
Os.	24° 00'



SCALE: HORIZ. — 1 inch = 200 feet
 VERT. — 1 inch = 20 feet



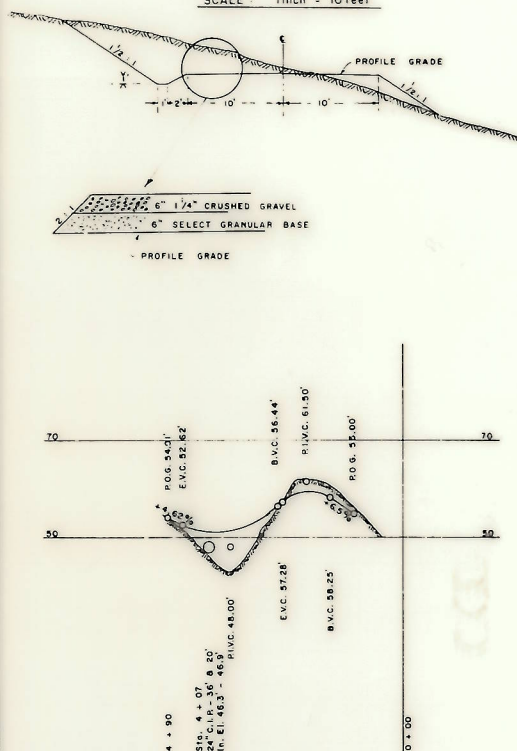


PROFILE LABONTE CRESCENT

SCALE: HORIZ. 1 inch = 200 feet
VERT. 1 inch = 20 feet

TYPICAL SECTION

SCALE: 1 inch = 10 feet

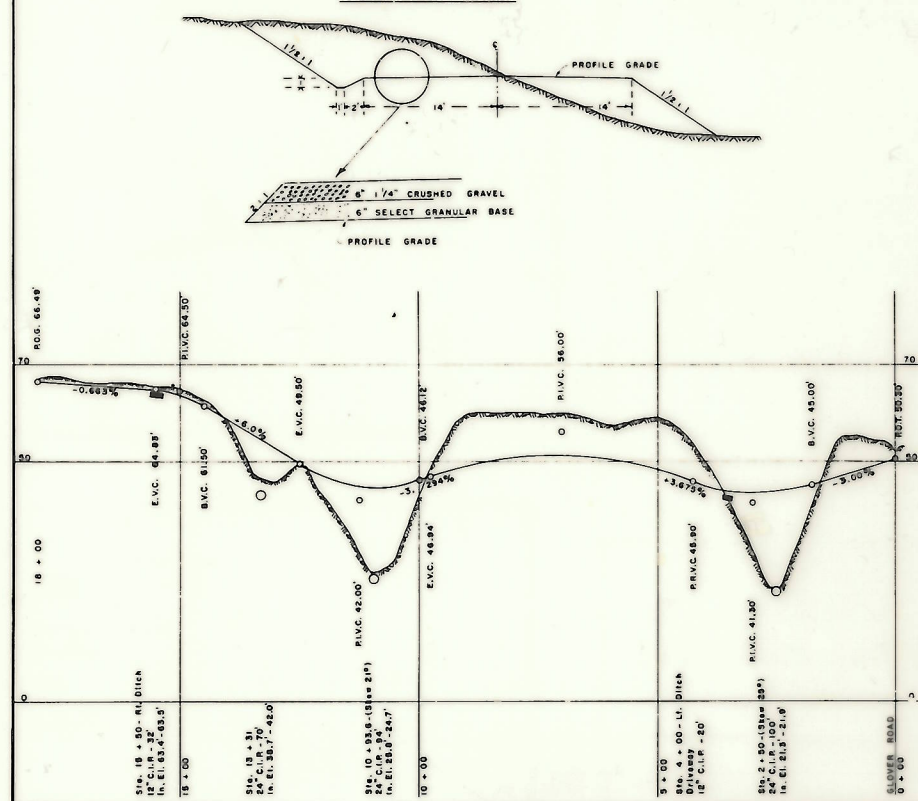


PROFILE HALVERSON AVENUE

SCALE: HORIZ. 1 inch = 200 feet
VERT. 1 inch = 20 feet

TYPICAL SECTION

SCALE: 1 inch = 10 feet

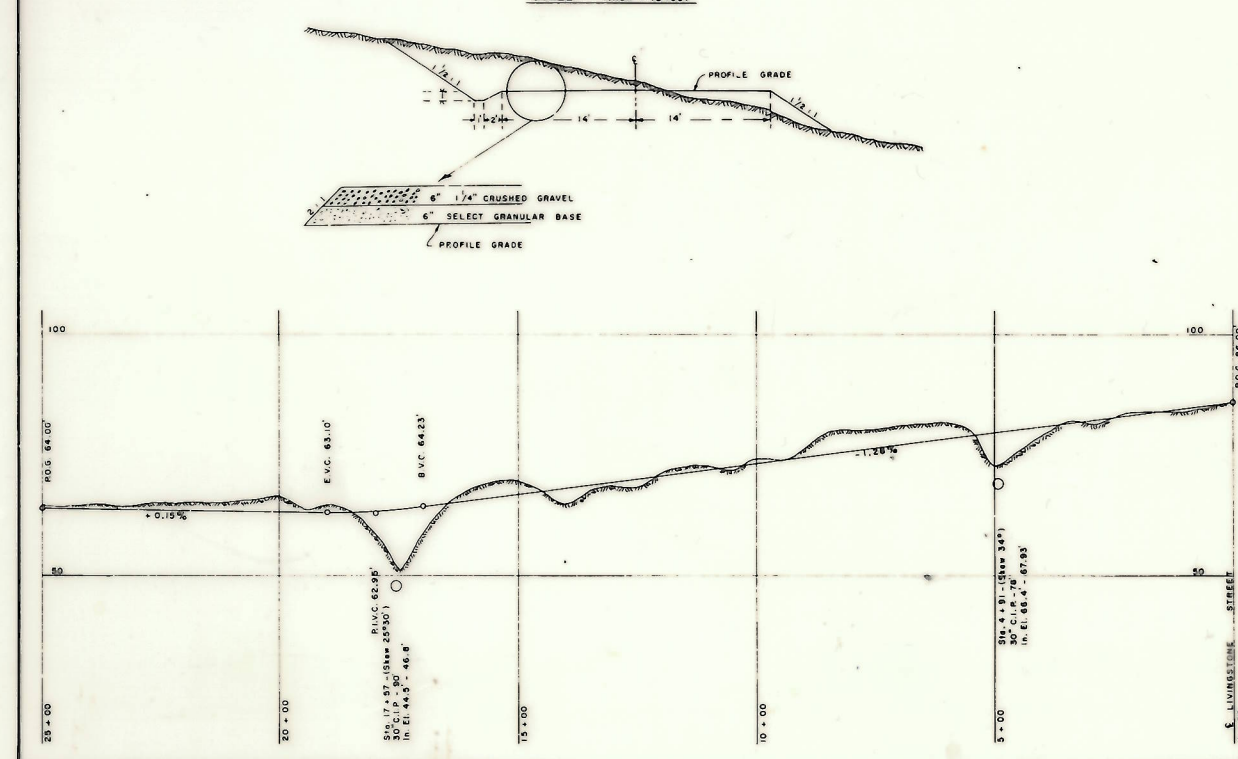


PROFILE BUTLER AVENUE

SCALE: HORIZ. 1 inch = 200 feet
VERT. 1 inch = 20 feet

TYPICAL SECTION

SCALE: 1 inch = 10 feet

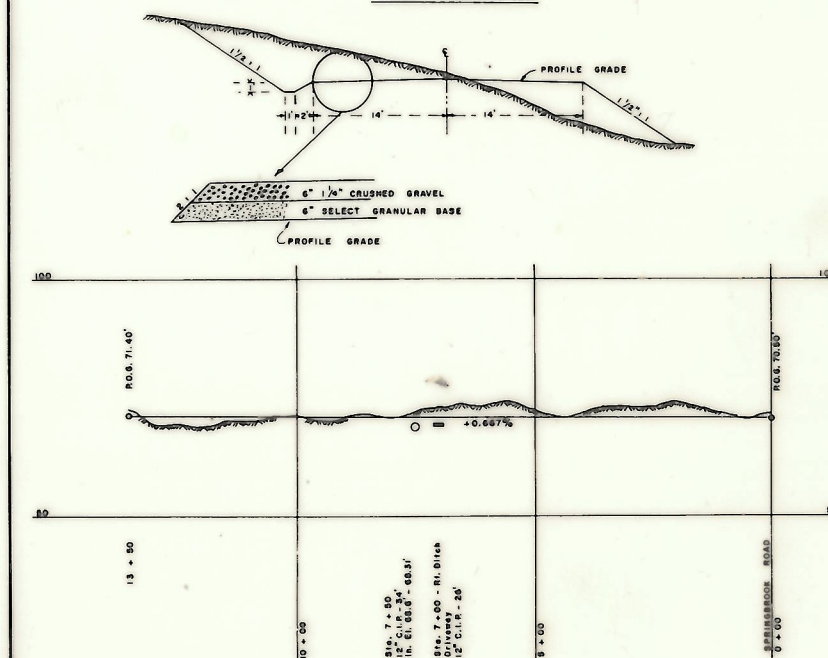


PROFILE 893+00 SERVICE ROAD

SCALE: HORIZ. 1 inch = 200 feet
VERT. 1 inch = 20 feet

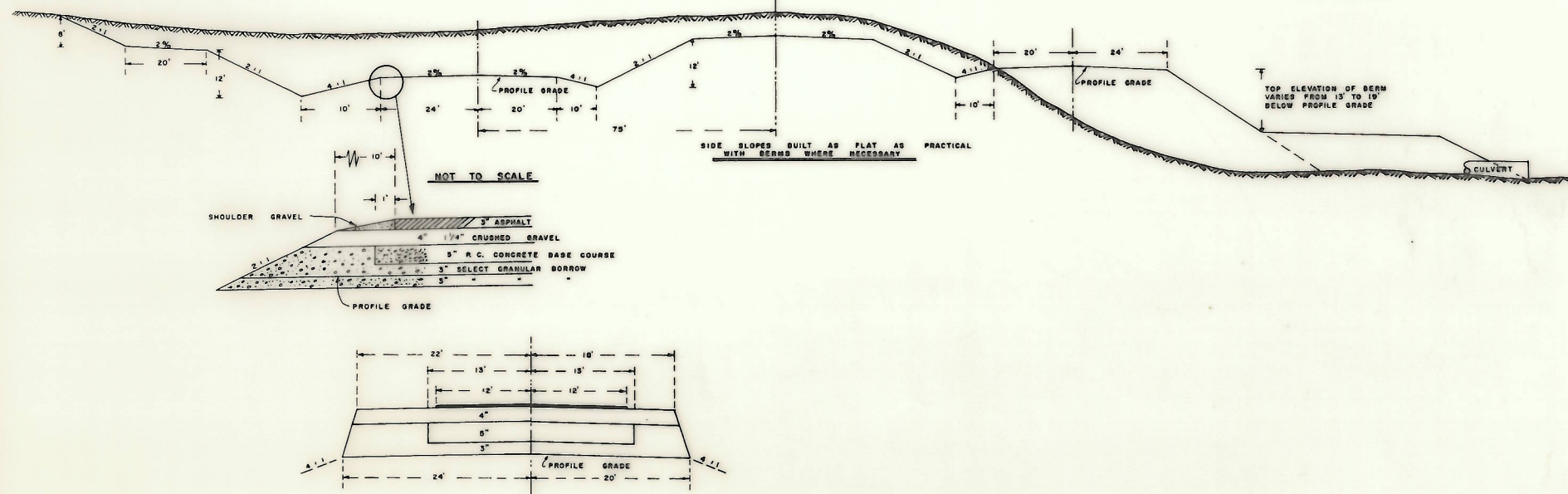
TYPICAL SECTION

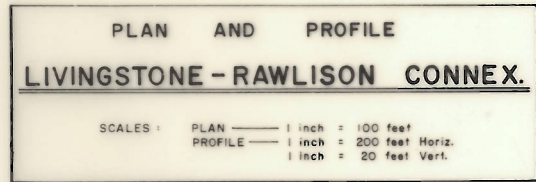
SCALE: 1 inch = 10 feet



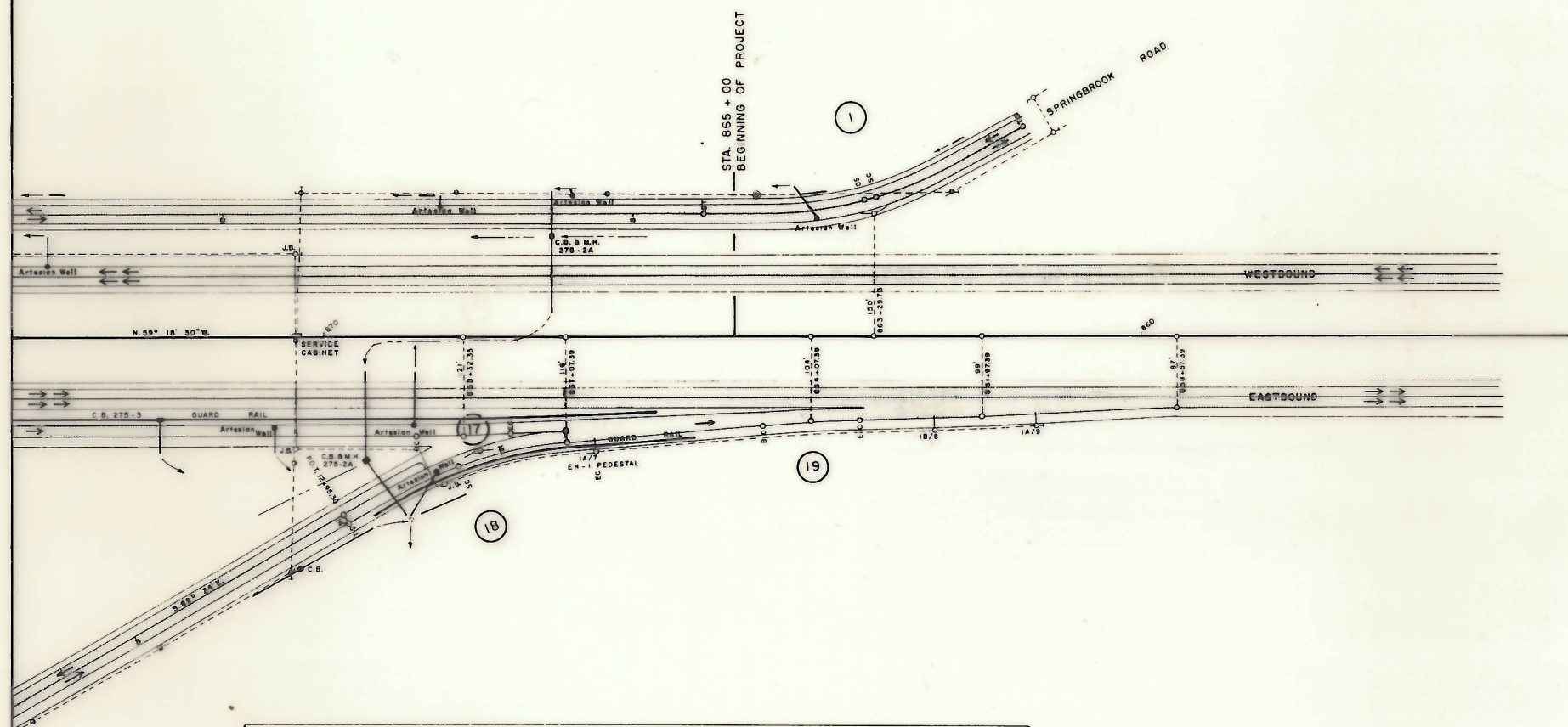
TYPICAL SECTION OF FREEWAY

SCALE: 1 inch = 200 feet





CURVE No. 1	
CHAINAGE	DATA
T.S. 0+00	C. 14° 00'
S.C. 2+00	Δ 30° 02'
C.S. 2+14.5	Δc. 02° 02'
S.T. 4+14.5	A.D. 210.69'
P.L. 2+10.69	ARC 14.50'
	Ls. 200'
	Os. 14° 00'



CURVE DATA FOR S. E. QUADRANT

CURVE No. 17	
CHAINAGE	DATA
B.C. 31+44.8	C. 2° 00'
E.C. 32+59.4	Δ 2° 17' 30"
P.L. 32+02.1	A.D. 57.30'
	ARC 114.58'

CURVE No. 18	
CHAINAGE	DATA
T.S. 12+95.30	C. 12° 00'
S.C. 14+45.30	Δ 25° 17' 30"
E.C. 15+01.06	Δc. 16° 17' 30"
P.L. 14+73.22	A.D. 177.92'
	A.D. 107.13'
	ARC 135.76'
	Ls. 150'
	Os. 9° 00'

CURVE No. 19	
CHAINAGE	DATA
	C. 3° 00'
	Δ 3° 36'
	A.D. 60.02'
	ARC 120.00'