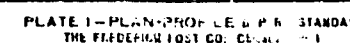


FOR DETAIL OF STH 33 SEE SH. NCS. 6
FOR DETAIL OF INTERCHANGE SEE SH. NCS. 7-10
28-2.12

BPR DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	1-90-2(16)105	5	264

I-90-2(40)105 4-27



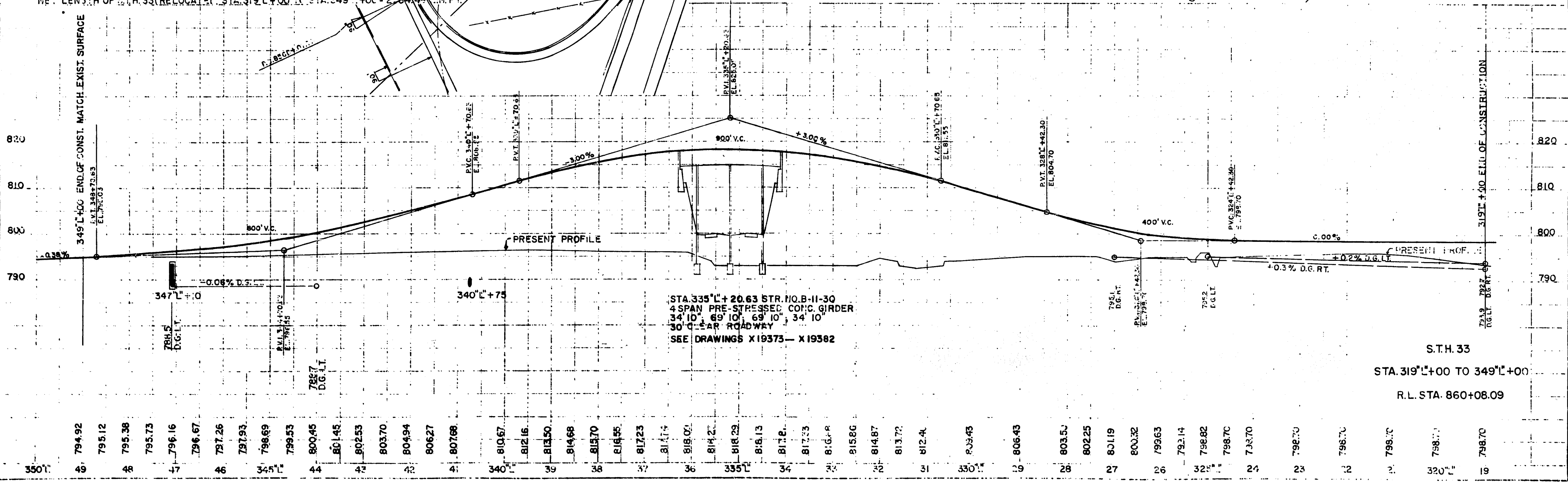
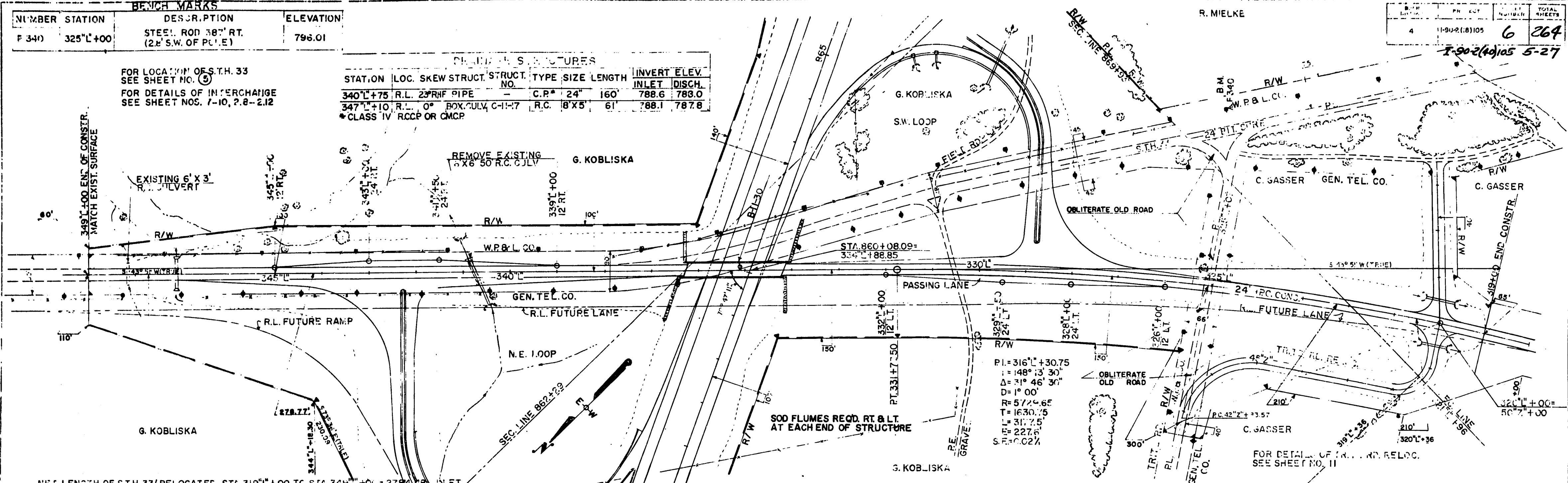
BENCH MARKS		
NUMBER	STATION	ELEVATION
F 340	325'+00	796.01
DESCRIPTION STEEL ROD 3/8" RT. (2.8' S.W. OF P.C.E.)		

DATE	PROJECT	NUMBER	TOTAL SHEETS
11-90-2(10)105	6	264	

FOR LOCATION OF S.T.H. 33
SEE SHEET NO. ③
FOR DETAILS OF INTERCHANGE
SEE SHEET NOS. 7-10, 2.8-2.12

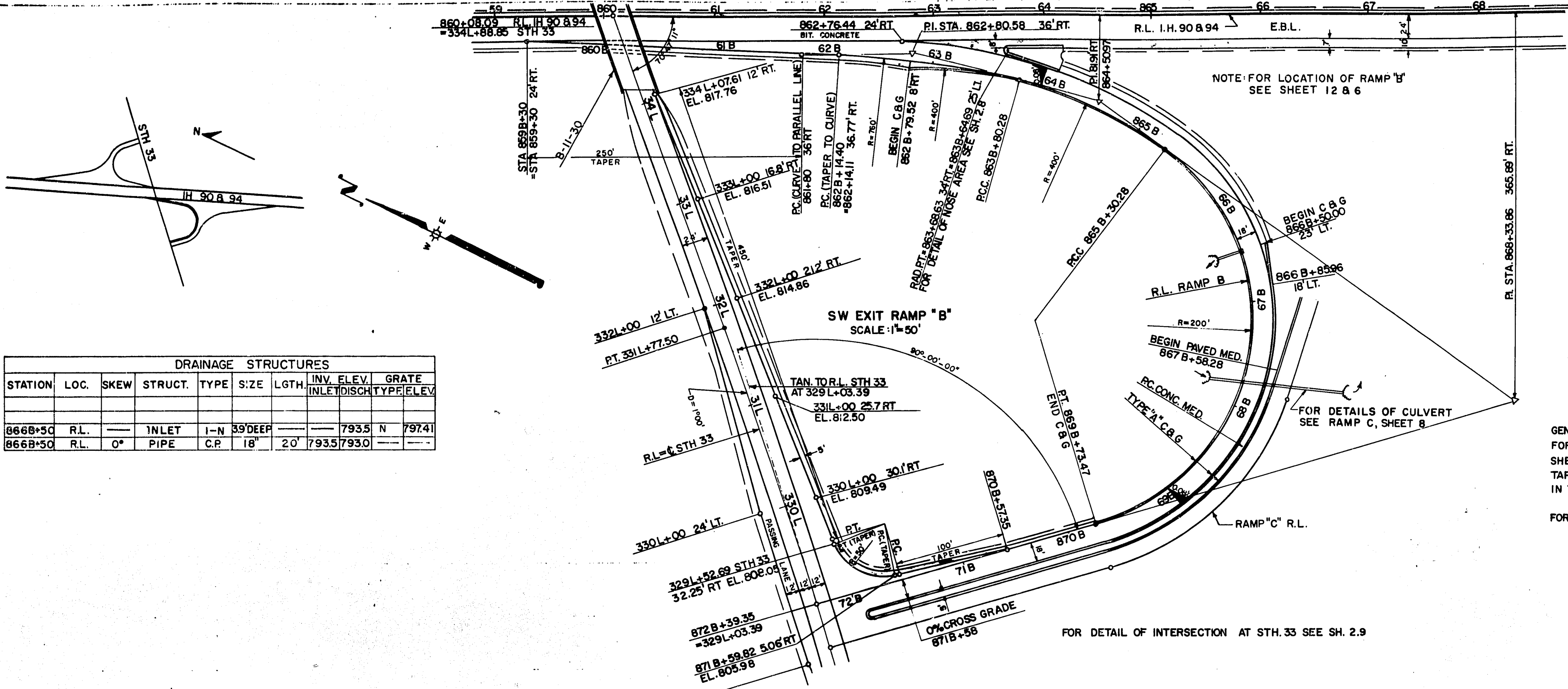
SKIN AND STRUCTURES									
STATION	LOC.	SKIN	STRUCT.	TYPE	SIZE	LENGTH	INVERT ELEV.		
							INLET	DISCH.	
340'+75	R.L.	23" RHF PIPE	-	C.P.	24"	160'	788.6	788.0	
347'+10	R.L.	0" BOX CULV. C-11-7	R.C.	8'X5'	61'		788.1	787.8	

* CLASS IV RCCP OR CMCP

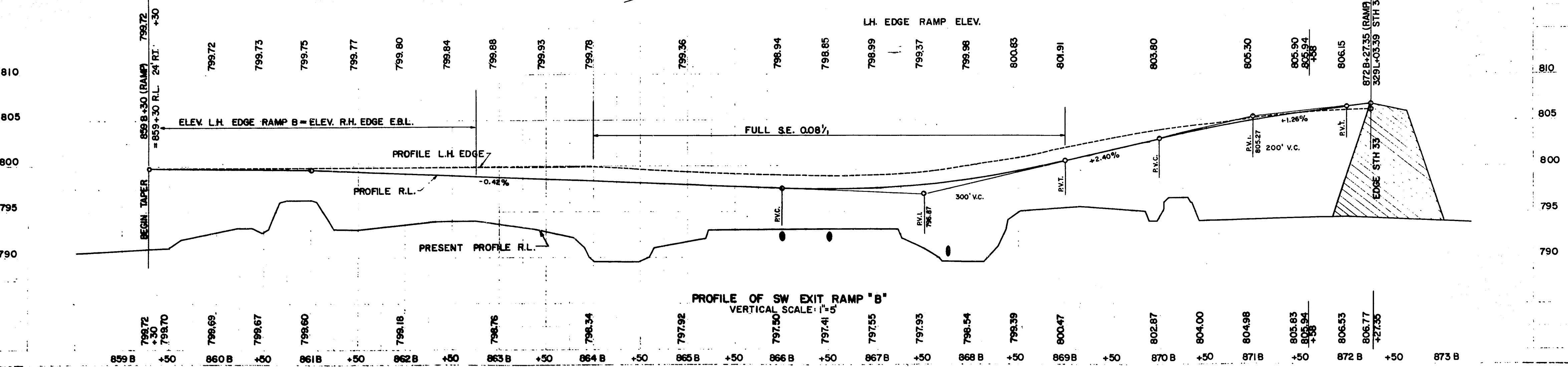


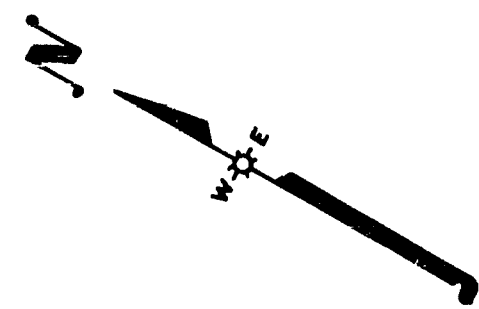
STA. 335'+20.63 STR. NO. B-II-30
4 SPAN PRE-STRESSED CONC. GIRDER
34' 10", 69' 10", 69' 10", 34' 10"
30' C-C ROADWAY
SEE DRAWINGS X19373 - X19382

S.T.H. 33
STA. 319'+00 TO 349'+00
R.L. STA. 860+08.09



DRAINAGE STRUCTURES									
STATION	LOC.	SKEW	STRUCT.	TYPE	SIZE	LGTH.	INV. ELEV.	GRATE	
							INLET	DISCH.	ELEV.
866B+50	R.L.	—	INLET	I-N	39" DEEP	—	793.5	N	797.41
866B+50	R.L.	0°	PIPE	C.P.	18"	20'	793.5	793.0	—





FOR INTERSECTION DETAILS SEE SH. 2.9

FOR DETAILS AT ENTRANCE SEE SH. 2.9

CONCRETE SIDEWALK

RAD. PT. 860C+92.74 20 LT.
=860C+87.38 ON TAN.
4' RT.

859C+55.08 ON TAN.
=328L+59.39 STH 33

RAD. PT. 859C+48.76 22.97 LT.
=327L+49.91 19' RT. STH 33

TAN TO CURVE AT
328L+59.39

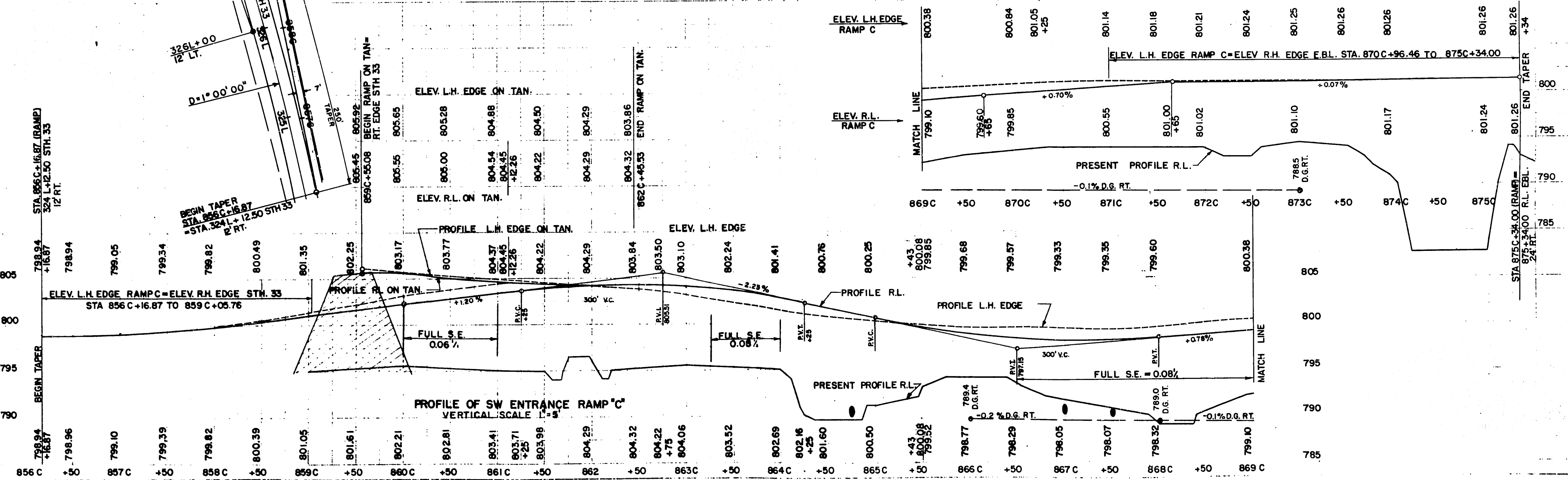
PC (TAPER TO CURVE)
858C+81.47 24.48' RT.
326L+76.00

PC (CURVE TO PARALLEL)
326L+62.50 24' RT.
858C+38.10 8' RT.
BEGIN C&G

S.W. ENTRANCE RAMP "C"
SCALE 1"=50'
FOR LOCATION SEE SHEET 12 & 6

DRAINAGE STRUCTURES									
STATION	LOC.	SKEW	STRUCT.	TYPE	SIZE	LGTH.	INV. ELEV.	GRATE	
864C+75	R.L.	12°RHF	PIPE	C.P.	24"	124'	790.37	789.8	
867C+00	R.L.		INLET	I-N 40	DEEP		794.0	N	798.05
867C+00	R.L.	0°	PIPE	C.P.	18"	24'	794.0	792.0	
867C+50	R.L.	0°	PIPE	C.P.	18"	84'	792.0	789.9	

GENERAL NOTES:
FOR GUTTER GRADE TREATMENT, SEE SHEET 2.8
TAPER ALL CURB ENDS FROM 6" TO 0" IN TEN FEET AS PER DETAIL ON SHEET 2.8
FOR DETAIL OF EXIT NOSE, SEE SHEET 2.8



I-90-2(18)105 9 264
I-90-2(14)105 8-27

STA 864D+14.84
= STA 347 L+05.00
STH 33 12' LT.

FOR DETAIL ENTR. AREA SEE SH. 2.10

[illegible]

NOTE: FROM STA. 855+39.06 AHEAD A.R.L. STA. 60' LT.

EQ 856+50.82 A.R.L. BACK
= 855+39.06 A.R.L. AHEAD

I-90-2(18)105 10 264
I-90-2(10)105 9-27

DRAINAGE STRUCTURES										
STATION	LOC.	SKEW	STRUCT.	TYPE	SIZE	LGTH.	INV. ELEV.	GRATE		
853E+75	R.L.	—	INLET	I-N	30DEEP	—	—	7945	N	79748
853E+75	R.L.	0°	PIPE	C.P.	18"	16'	7945	7940	—	—
852E+50	R.L.	—	INLET	I-N	30DEEP	—	—	7940	N	79729
852E+50	R.L.	0°	PIPE	C.P.	18"	18'	7940	7935	—	—

GENERAL NOTES:
FOR GUTTER GRADE TREATMENT, SEE
SHEET 2.8
TAPER ALL CURB ENDS FROM 6" TO
0" IN TEN FEET AS PER DETAIL ON
SHEET 2.8
FOR DETAIL OF EXIT NOSE SEE
SHEET 2.8

NE EXIT RAMP "E"
SCALE 1"=50'

FOR LOCATION SEE SH. 5 & 6

FOR DETAIL PLAN AT INTERSECTION
WITH STH 33 SEE SH. 2.10

R.H. EDGE RAMP ELEV.

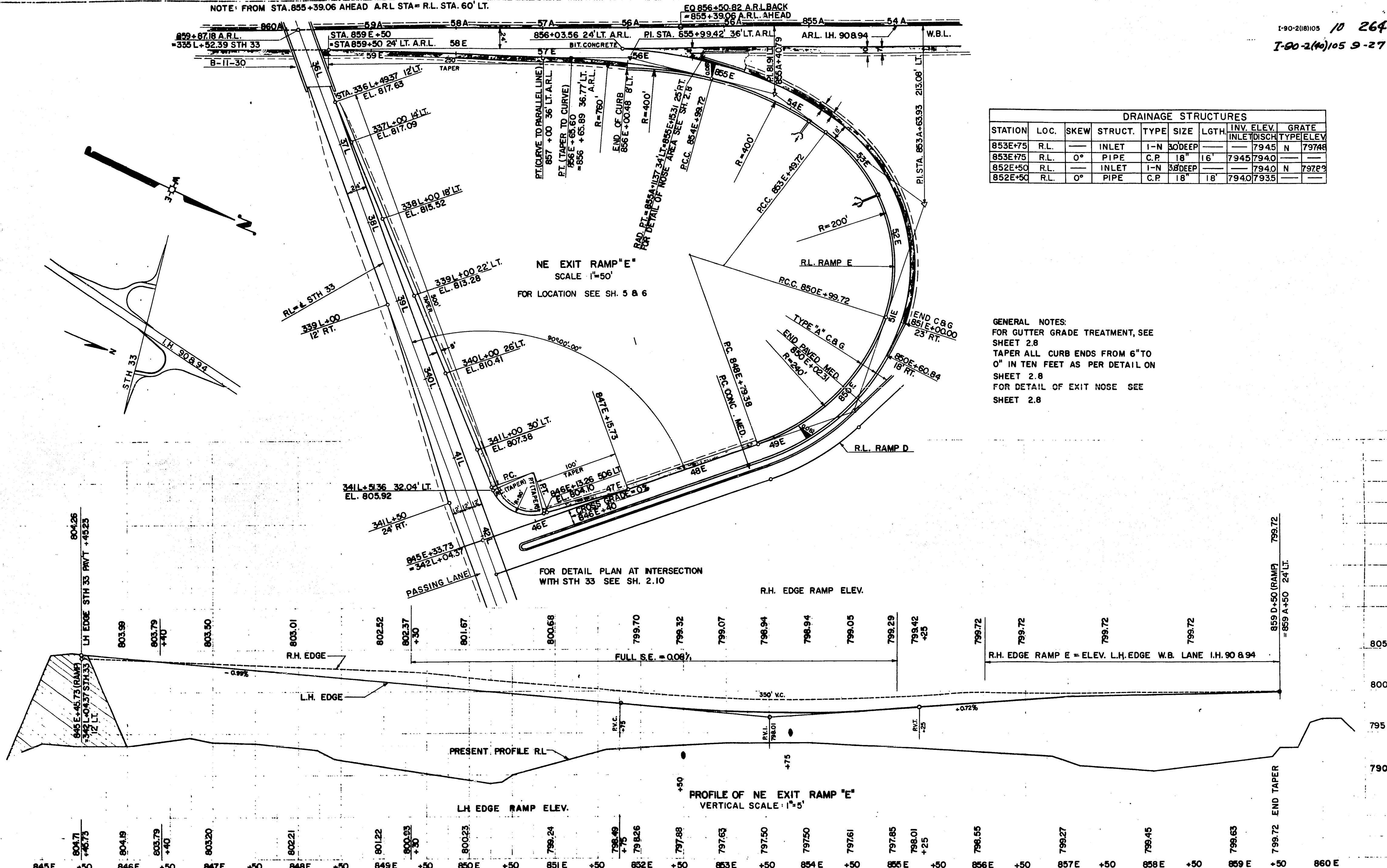
FULL S.E. = 0.06%

R.H. EDGE RAMP E = ELEV. L.H. EDGE W.B. LANE I.H. 90 & 94

PRESENT PROFILE RL

LH EDGE RAMP ELEV.

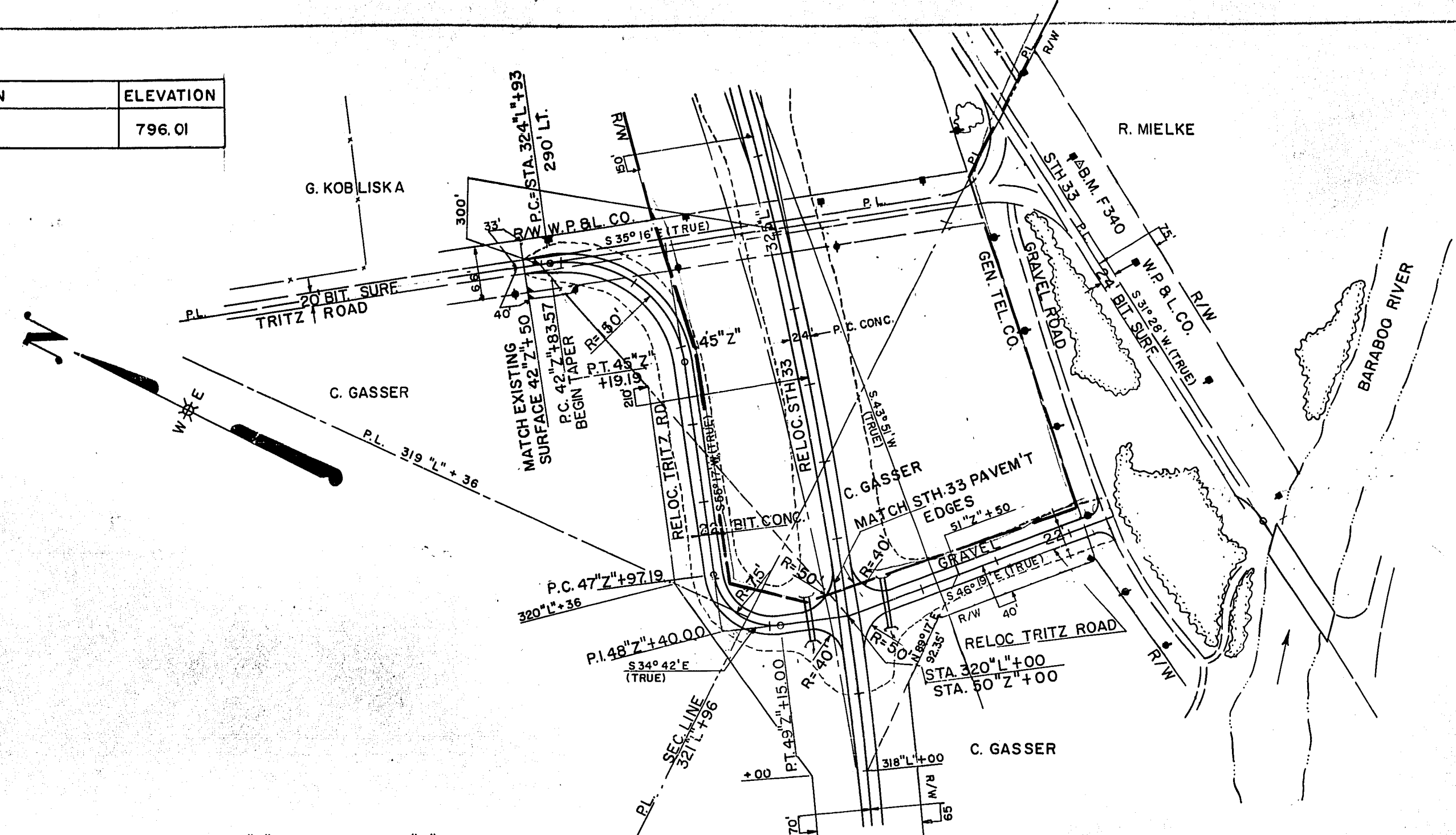
PROFILE OF NE EXIT RAMP "E"
VERTICAL SCALE 1"=5'



PROJECT	DATE	BY	CHECKED
1-90-2(10)105	11	267	

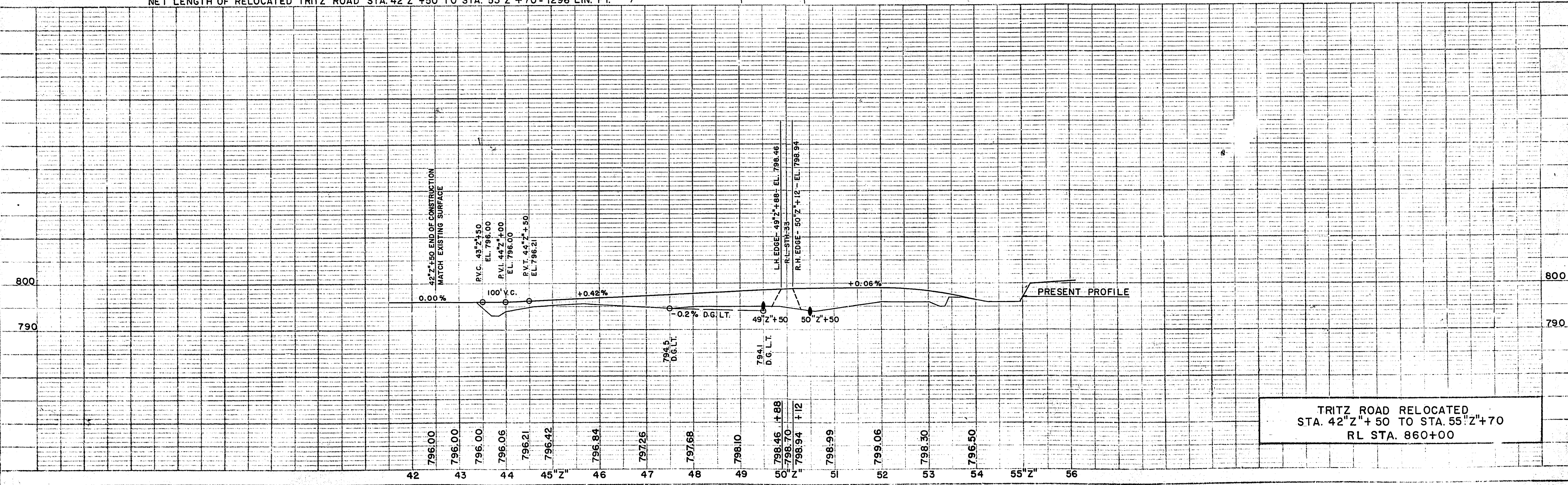
BENCH MARKS			
NUMBER	STATION	DESCRIPTION	ELEVATION
F340	325" L + 00	STEEL ROD 387' RT (2.8' S. OF POLE)	796.01

DRAINAGE STRUCTURES								
STATION	LOCATION	SKEW	STRUCTURE	TYPE	SIZE	LENGTH	INVERT ELEV	DISCH.
49" Z + 50	RL	0°	PIPE	C.P.	24"	56'	794.1	793.9
50" Z + 50	RL	13° LHF	PIPE	C.P.	24"	66'	793.1	792.8



FOR LOCATION
SEE SHEET NO. 4 & 5

NET LENGTH OF RELOCATED TRITZ ROAD STA. 42" Z + 50 TO STA. 55" Z + 70 = 1296 LIN. FT.



TRITZ ROAD RELOCATED
STA. 42" Z + 50 TO STA. 55" Z + 70
RL STA. 860+00

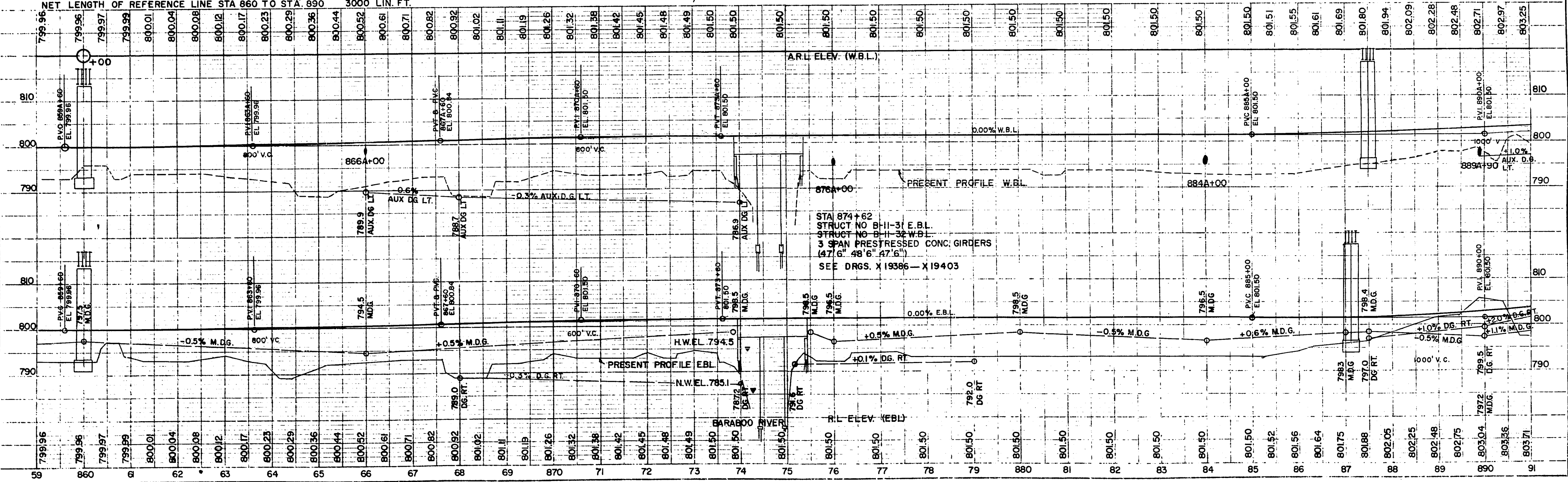
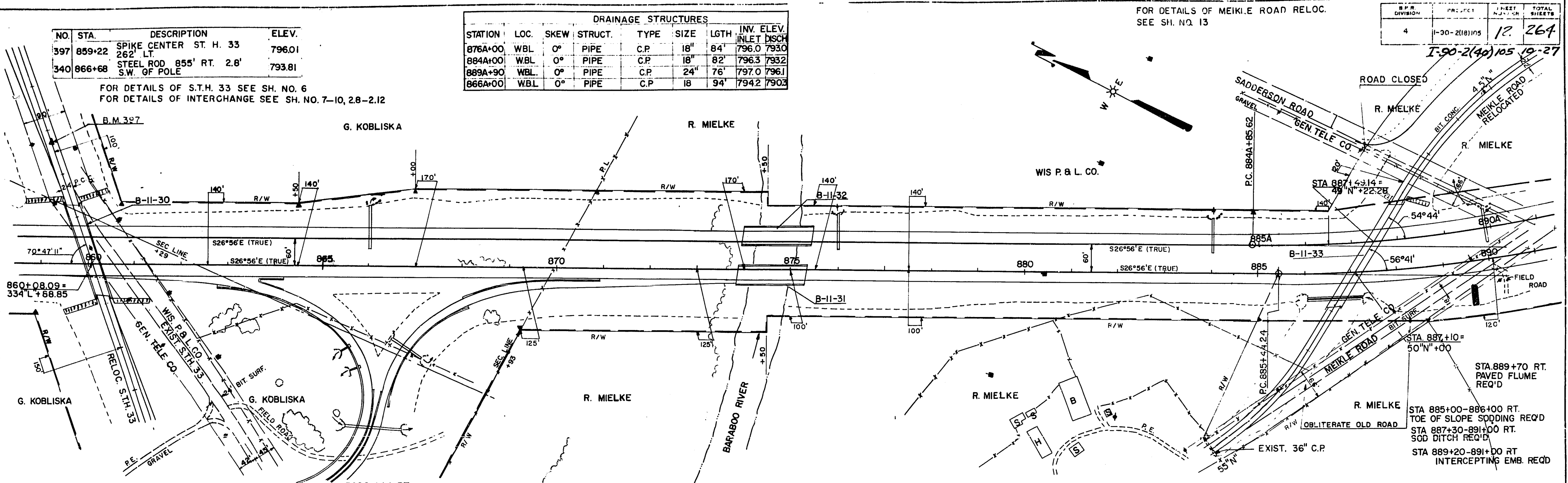
NO.	STA.	DESCRIPTION	ELEV.
397	859+22	SPIKE CENTER ST. H. 33 262' LT.	796.01
340	866+68	STEEL ROD 855' RT. 2.8' S.W. OF POLE	793.81

FOR DETAILS OF S.T.H. 33 SEE SH. NO. 6
FOR DETAILS OF INTERCHANGE SEE SH. NO. 7-10, 2.8-2.12

DRAINAGE STRUCTURES									
STATION	LOC.	SKEW	STRUCT.	TYPE	SIZE	LGTH	INV. ELEV.	INLET DISCH.	
876A+00	WBL	0°	PIPE	C.P.	18"	84'	796.0	793.0	
884A+00	WBL	0°	PIPE	C.P.	18"	82'	796.3	793.2	
889A+90	WBL	0°	PIPE	C.P.	24"	76'	797.0	796.1	
866A+00	WBL	0°	PIPE	C.P.	18"	94'	794.2	790.3	

FOR DETAILS OF MEIKLE ROAD RELOC.
SEE SH. NO. 13

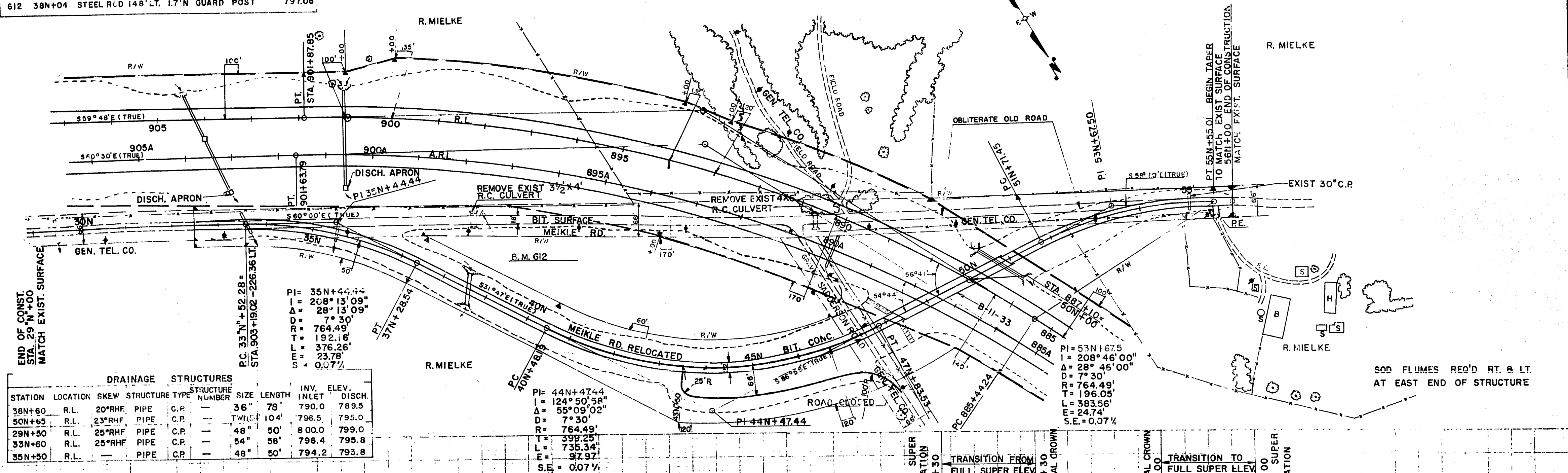
SHEET NO.	TOTAL SHEETS
12	264



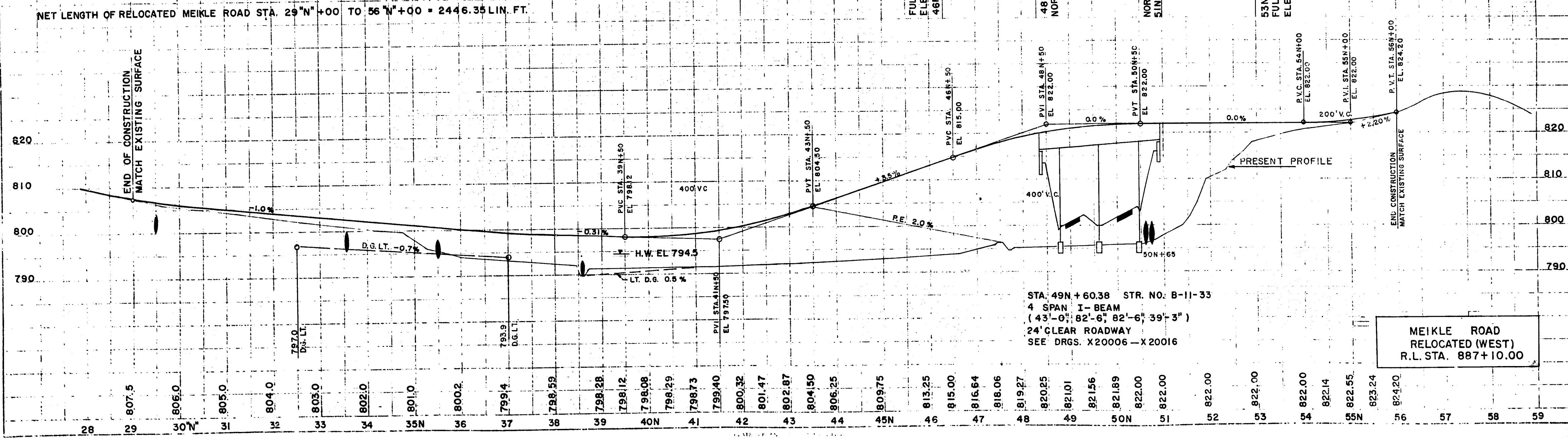
BENCH MARKS		DESCRIPTION	ELEV.
NO.	STA.		
612	38N+04	STEEL RCD 148' LT. 1.7' N GUARD POST	797.08

FOR LOCATION SEE
SHEET NO. 12

DATE	BY	NO.	TITLE	TOTAL SHEETS
4	1-20-21	105	13	264



DRAINAGE STRUCTURES		STATION	LOCATION	SKEW	STRUCTURE TYPE	STRUCTURE NUMBER	SIZE	LENGTH	INV. INLET	ELEV.	DISCH.
NO.	DESCRIPTION										
1	36" x 78"	38N+60	R.L.	20°RHF	PIPE	C.P.	36"	78'	790.0	789.5	
2	48" x 50'	50N+65	R.L.	23°RHF	PIPE	C.P.	48"	50'	796.5	795.0	
3	54" x 58'	29N+50	R.L.	25°RHF	PIPE	C.P.	54"	58'	800.0	799.0	
4	48" x 50'	33N+60	R.L.	25°RHF	PIPE	C.P.	48"	50'	796.4	795.8	
5	48" x 50'	35N+50	R.L.	—	PIPE	C.P.	48"	50'	794.2	793.8	

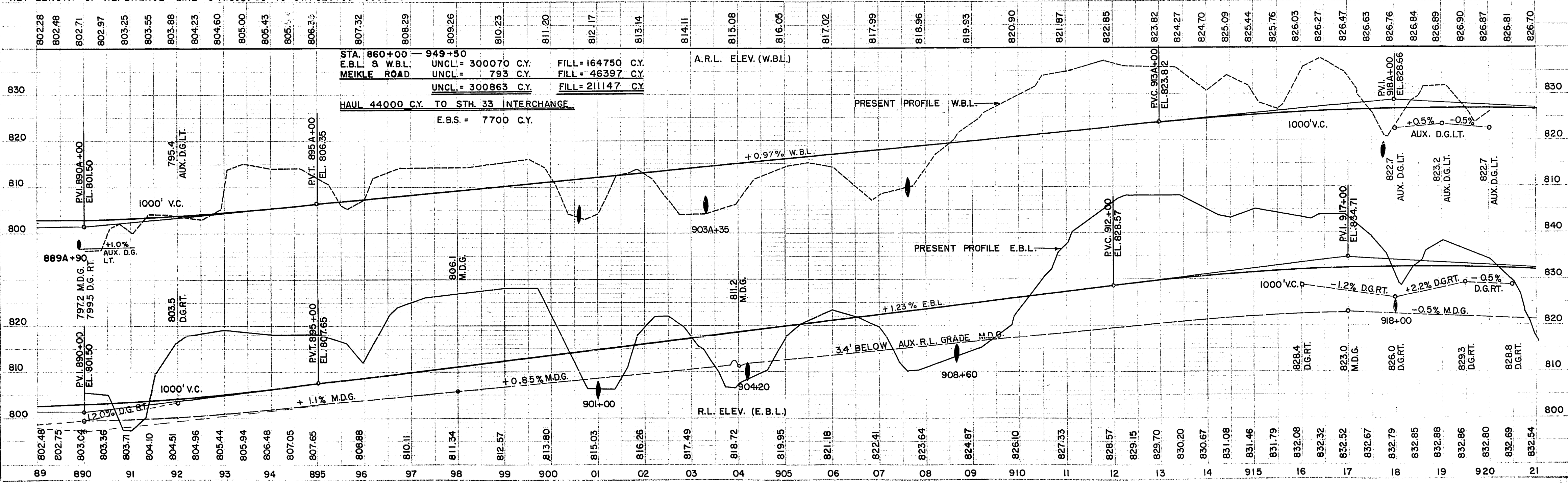
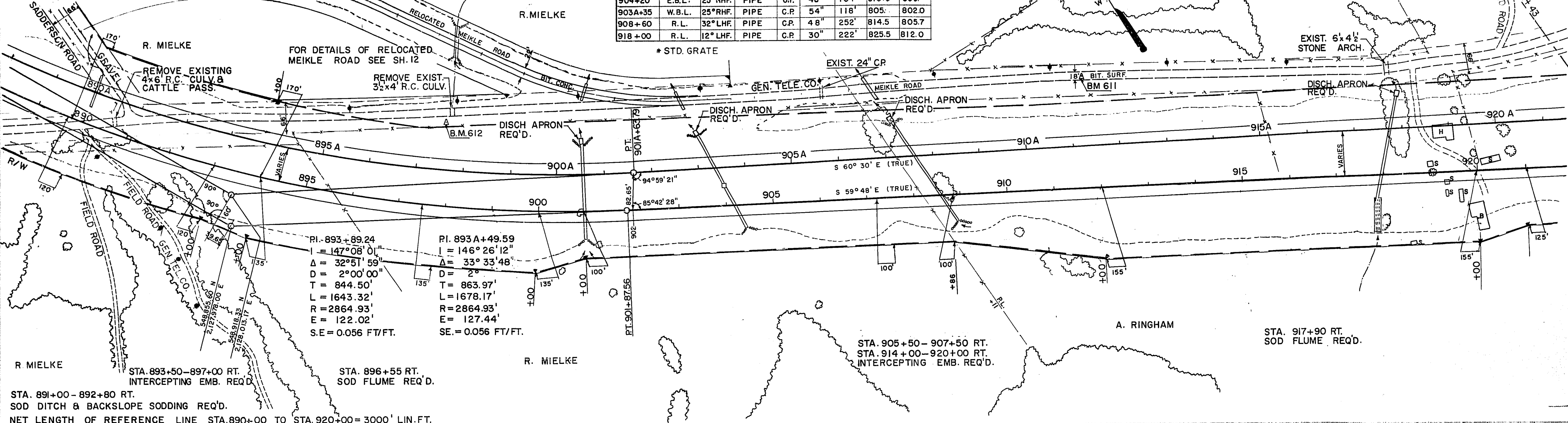


STA. 49N+60.38 STR. NO. B-11-33
4 SPAN I-BEAM
(43'-0", 82'-6", 82'-6", 39'-3")
24' CLEAR ROADWAY
SEE DRGS. X20006 - X20016

MEIKLE ROAD
RELOCATED (WEST)
R.L. STA. 887+10.00

BENCH MARKS			
NO.	STA.	DESCRIPTION.	ELEV.
612	897+93	STEEL ROD 1.7' N. GUARD POST 194' LT.	797.08
611	911+87	STEEL ROD CENTER OF ROAD 243' LT.	811.20

DRAINAGE STRUCTURES.									
STATION	LOCATION	SKEW	STRUCTURE TYPE	SIZE	LENGTH	INLET	DISCH.	INLET	DISCH.
901+00	R.L.	0°	PIPE	C.P.	48"	206'	806.0	800.0	
904+00	44' LT. R.L.		DROP INLET	M.T.	DEEP		805.	805.	
904+20	E.B.L.	25° RHF.	PIPE	C.P.	48"	104'	810.3	805.	
903A+35	W.B.L.	25° RHF.	PIPE	C.P.	54"	116'	805.	802.0	
908+60	R.L.	32° LHF.	PIPE	C.P.	48"	252'	814.5	805.7	
918+00	R.L.	12° LHF.	PIPE	C.P.	30"	222'	825.5	812.0	



BENCH MARKS			
NUMBER	STATION	DESCRIPTION	ELEVATION
F611	911+87	STEEL ROD, CTR. OF ROAD 243' LT.	811.97
381	969+40	SPIKE, CTR. OF ROAD 136' LT.	816.97

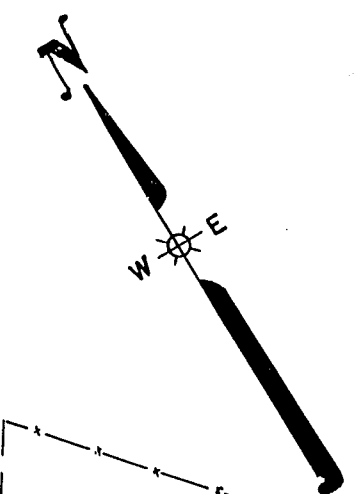
STA. 923+00-926+00 RT. INTERCEPTING EMB. REQ'D.
STA. 920+50-921+00 RT. PAVED DITCH REQ'D

STA. 929+00-951+00 RT. INTERCEPTING EMB. REQ'D.
STA. 932+90-934+10 RT. PAVED DITCH REQ'D.

STA. 934+00 RT.
STA. 942+50 RT.
STA. 941+00 RT.
STA. 939+40 RT.
SOD FLUMES REQ'D.

SECTION THRU PAVED DITCH BETWEEN CULVERTS

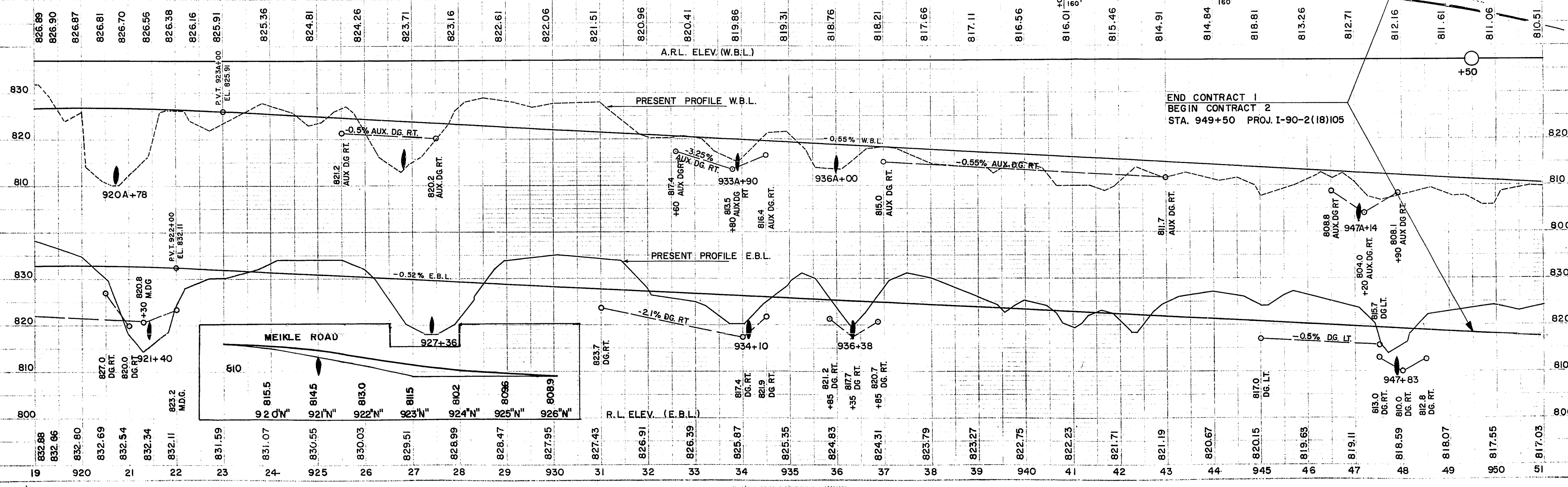
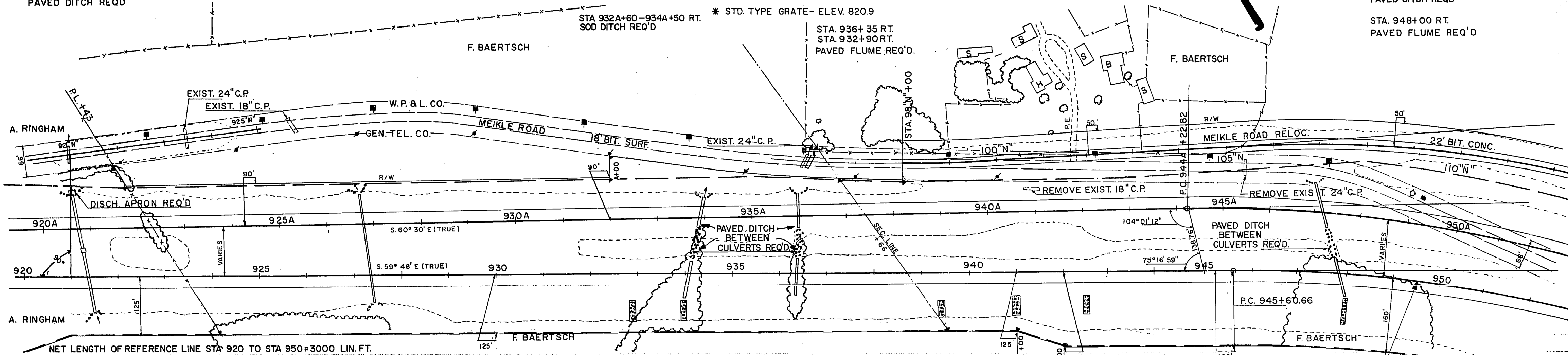
DRAINAGE STRUCTURES									
STATION	LOCATION	SKEW	STRUCTURE	TYPE	SIZE	LENGTH	INV.	ELEV.	
921+40	E.B.L.	10° RHF	PIPE	C.P.	42"	136'	818.0	815.8	
920A+78	W.B.L.	10° RHF	PIPE	C.P.	48"	120'	815.3	810.0	
921+30	55' LT. RL		INLET	MT.	6.4' DEEP		815.8	815.3	
927+36	R.L.	8° RHF	PIPE	C.P.	48"	232'	820.0	811.0	
933A+90	W.B.L.	12° LHF	PIPE	C.P.	48"	68'	813.4	813.0	
934+10	E.B.L.	12° LHF	PIPE	C.P.	48"	86'	817.0	816.0	
936A+00	W.B.L.	0°	PIPE	C.P.	48"	66'	812.0	811.4	
936+38	E.B.L.	4° LHF	PIPE	C.P.	48"	72'	817.1	816.5	
947A+14	W.B.L.	19° RHF	PIPE	C.P.	48"	100'	803.0	801.0	
947+83	E.B.L.	18° RHF	PIPE	C.P.	48"	92'	809.0	808.3	
921N+00	MEIKLE RD.	0°	PIPE	C.P.	48"	42'	809.5	809.0	



FOR DETAILS OF RELOCATED MEIKLE ROAD SEE SH. NO. 16

STA. 946A+50-947A+25 RT. PAVED DITCH REQ'D

STA. 948+00 RT. PAVED FLUME REQ'D



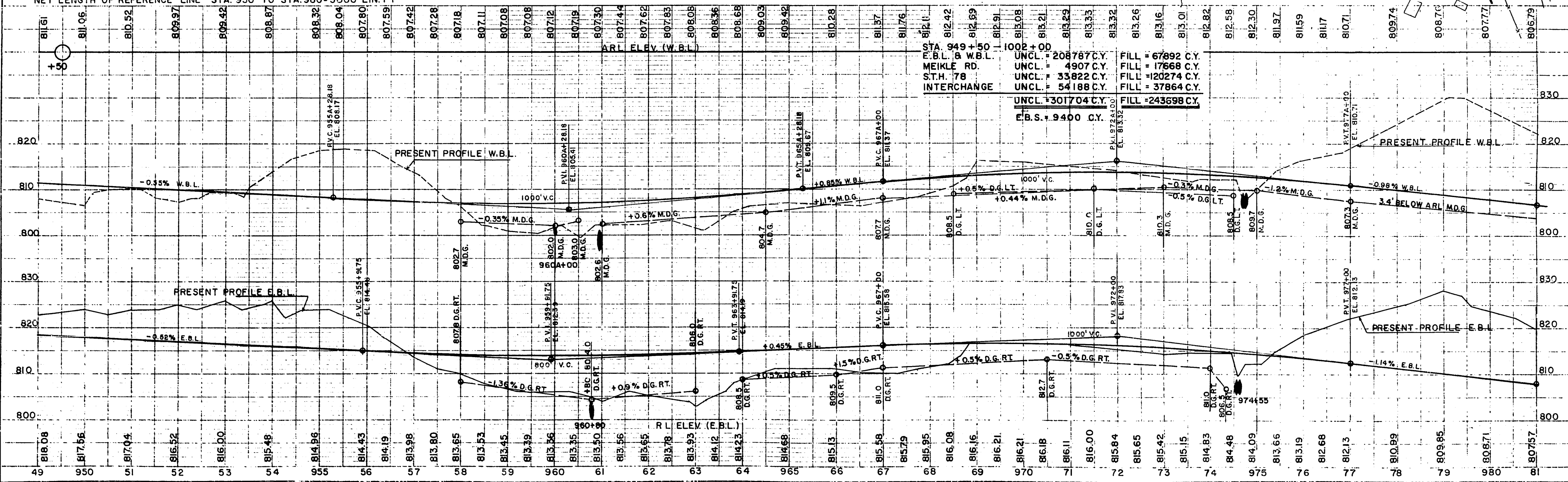
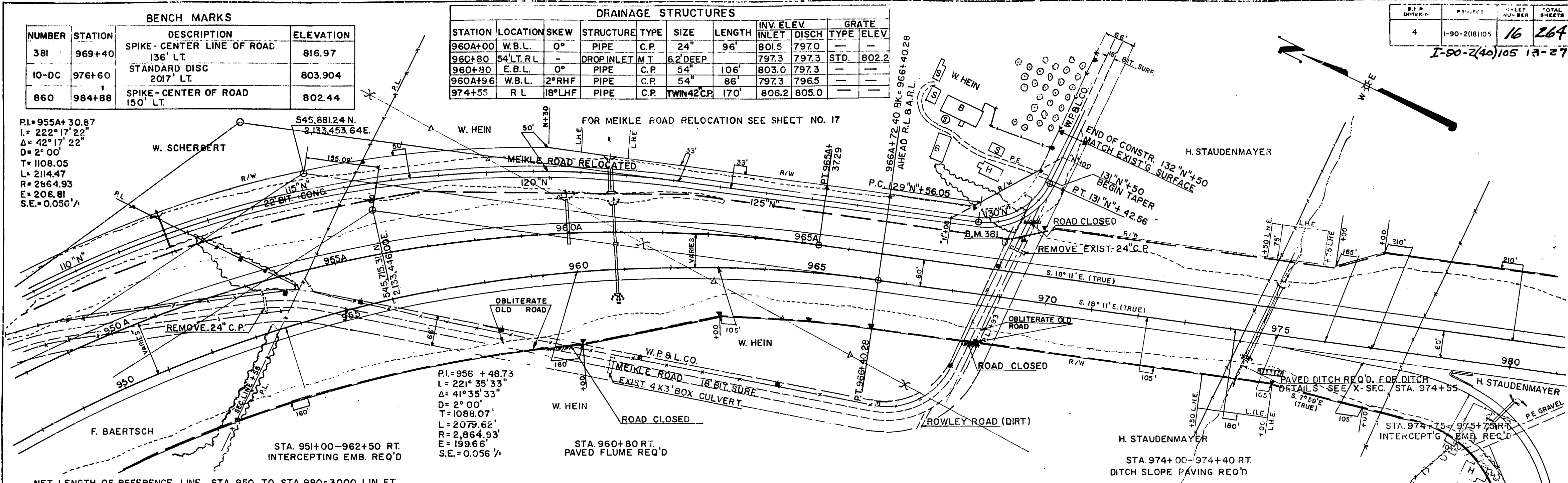
BENCH MARKS			
NUMBER	STATION	DESCRIPTION	ELEVATION
381	969+40	SPIKE - CENTER LINE OF ROAD 136' LT.	816.97
10-DC	976+60	STANDARD DISC 2017' LT.	803.904
860	984+88	SPIKE - CENTER OF ROAD 150' LT.	802.44

DRAINAGE STRUCTURES									
STATION	LOCATION	SKEW	STRUCTURE	TYPE	SIZE	LENGTH	INV. ELEV.	GRATE	
960A+00	W.B.L.	0°	PIPE	C.P.	24"	96'	801.5	797.0	—
960+80	54' LT. R.L.	—	DROP INLET	M.T.	6.2 DEEP		797.3	797.3	STD.
960+80	E.B.L.	0°	PIPE	C.P.	54"	106'	803.0	797.3	—
960A+96	W.B.L.	2° RHF	PIPE	C.P.	54"	86'	797.3	796.5	—
974+55	R.L.	18° LHF	PIPE	C.P.	TWIN 42" C.P.	170'	806.2	805.0	—

SHEET NUMBER	TOTAL SHEETS
16	264

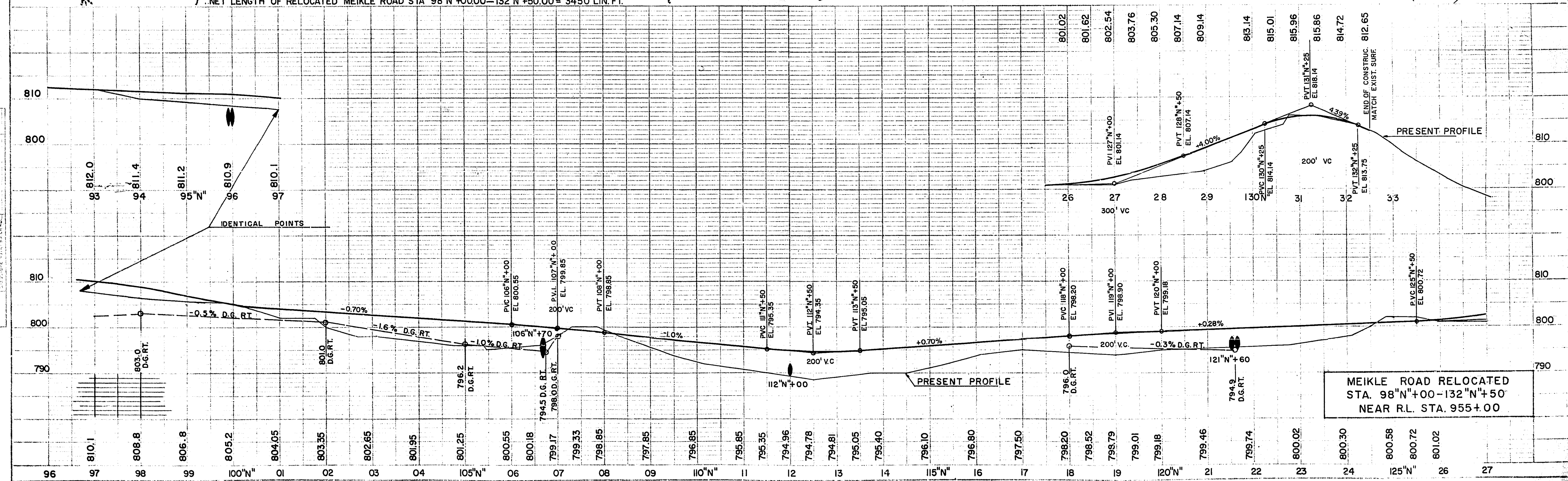
I-90-2(40)105 13-27

P.I. = 955A+30.87
 I. = 222° 17' 22"
 Δ = 12° 17' 22"
 D = 2° 00'
 T = 1108.05
 L = 2114.47
 R = 2664.93
 E = 206.81
 S.E. = 0.056 1/4



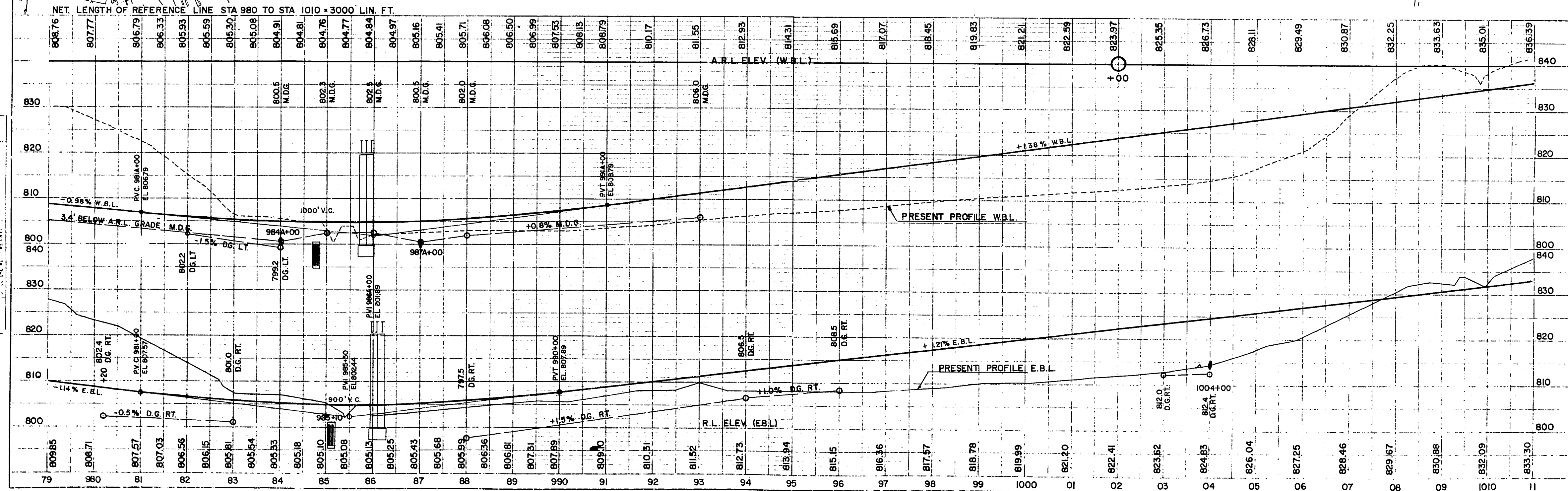
DRAINAGE STRUCTURES							
STATION	LOCATION	SKEW	STRUCTURE	TYPE	SIZE	LENGTH	INVERT ELEV INLET DISCH
106"N"+70	R. L.	10°RHF	PIPE	C.P.	54"	48'	794.2 793.5
112"N"+00	R. L.	0°	PIPE	C.P.	30"	64'	789.5 788.0
121"N"+60	R. L.	7°RHF	PIPE	C.P.	TWIN 36"	52'	794.8 794.0
96"N"+00	R. L.	20°RHF	PIPE	C.P.	TWIN 48"	44'	806.0 805.5

$PI = 114^{\circ}N + 66.06$
 $I = 224^{\circ}32'23''$
 $\Delta = 44^{\circ}32'23''$
 $D = 2^{\circ}30'$
 $R = 2292.01'$
 $T = 938.61'$
 $L = 1781.59'$
 $E = 184.74$
 $S.E. = 0.030 \%$

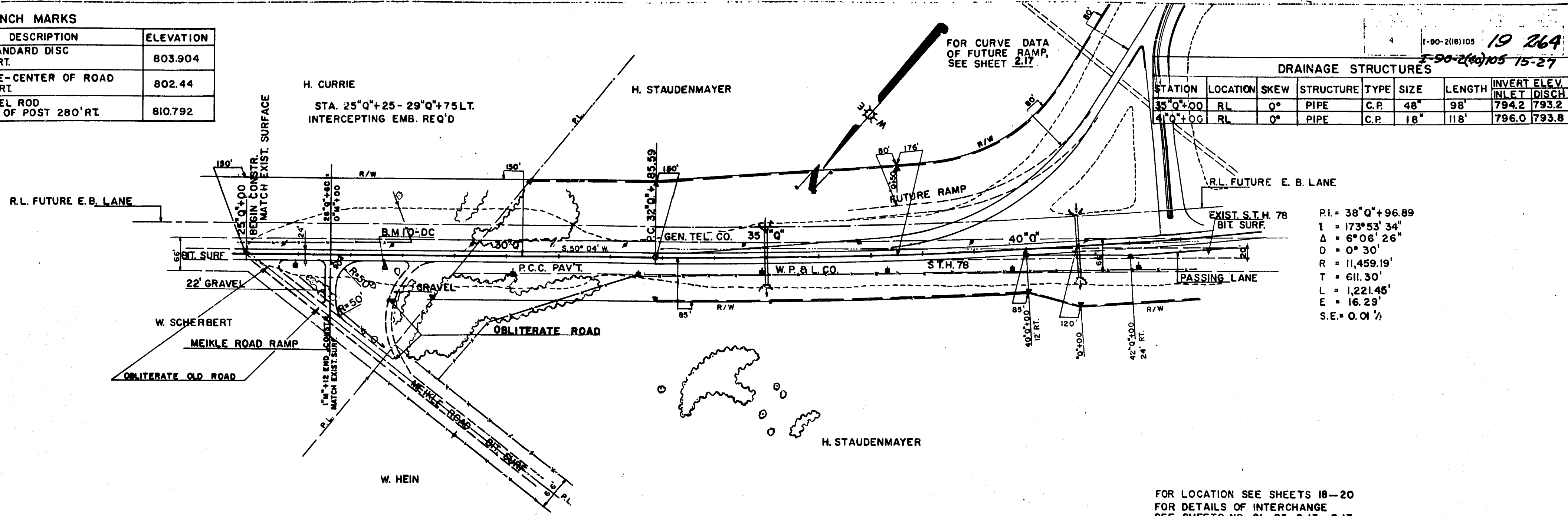


DRAINAGE					STRUCTURES				
STATION	LOCATION	SKEW	STRUCTURE	TYPE	STRUCT. NO.	SIZE	LENGTH	INV. INLET	ELEV. DISCH.
984A+00	WBL	0°	PIPE	C.P.	—	18"	78'	801.0	799.5
985+10	R.L	28° R.H.	BOX CULV.	R.C.	C-II-14	TWN7X45	200'	796.0	795.2
987A+00	W.B.L.	0°	PIPE	C.P.	—	24"	84'	800.0	798.2
1004+00	EBL	0°	PIPE	C.P.	—	24"	118'	813.9	812.6

STA. 1007A+00-1011A+00 L.T.

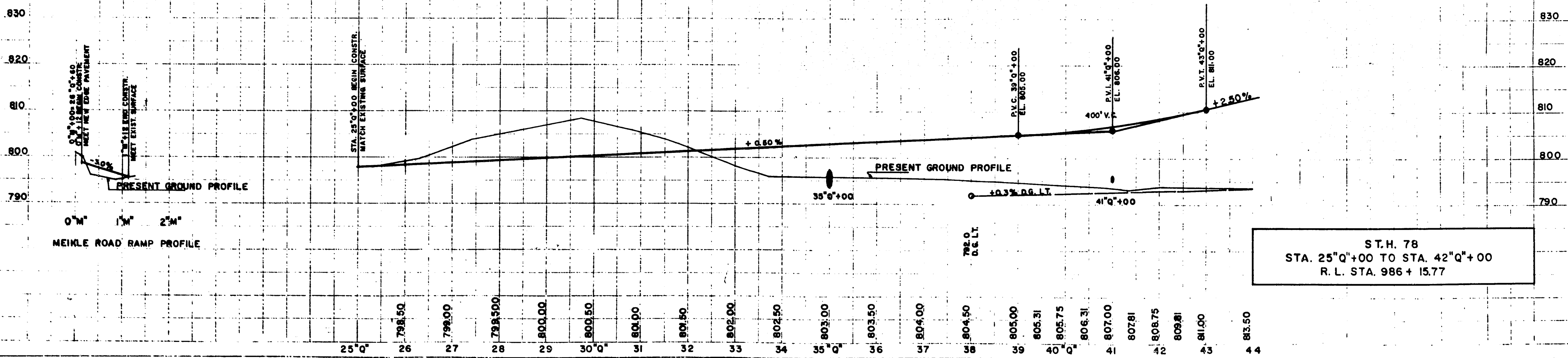


BENCH MARKS			
NUMBER	STATION	DESCRIPTION	ELEVATION
10-DC	27°0'+73	STANDARD DISC 18' RT.	803.904
31F 860	48°0'+10	SPIKE-CENTER OF ROAD 44' RT.	802.44
F 610	995+79	STEEL ROD 2.0' S. OF POST 280' RT.	810.792



NET LENGTH OF S.H. 78 CENTER LINE STA. 25°0'+00 TO STA. 42°0'+00 = 1700 LIN. FT.

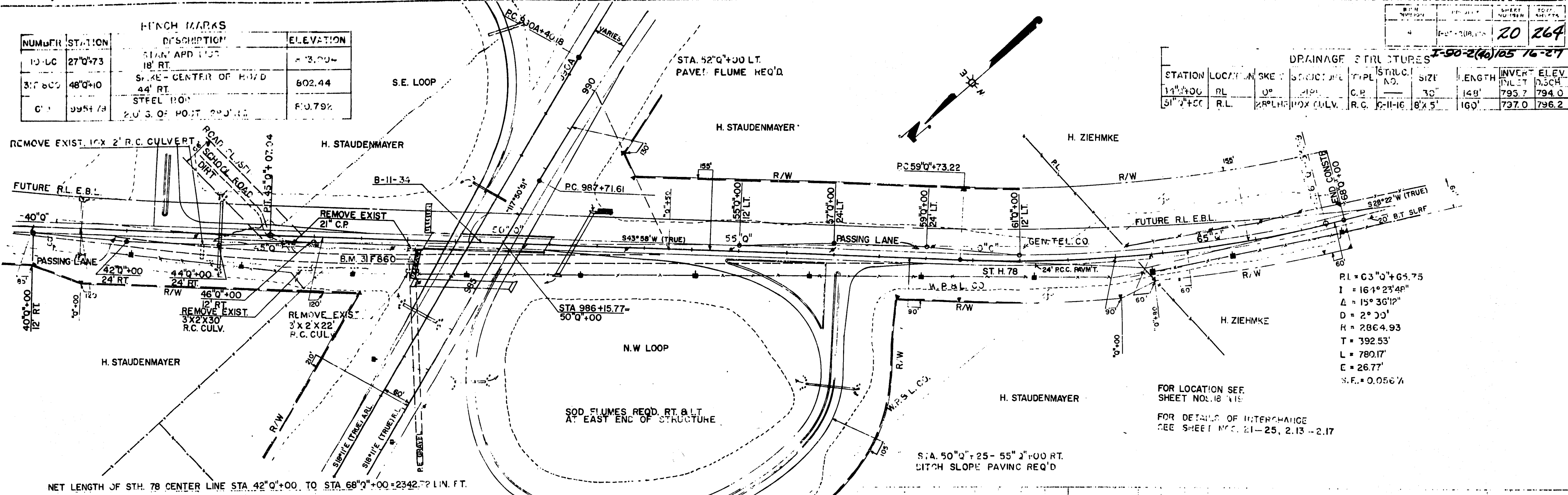
FOR LOCATION SEE SHEETS 18-20
 FOR DETAILS OF INTERCHANGE
 SEE SHEETS NO. 21-25, 2.13-2.17



NUMBER	STATION	DESCRIPTION	ELEVATION
10-10	27°0'73	STAN. AND POST	803.00
31-600	48°0'10	STAKE - CENTER OF ROAD	802.44
60	9954 1/3	STEEL POST	800.79

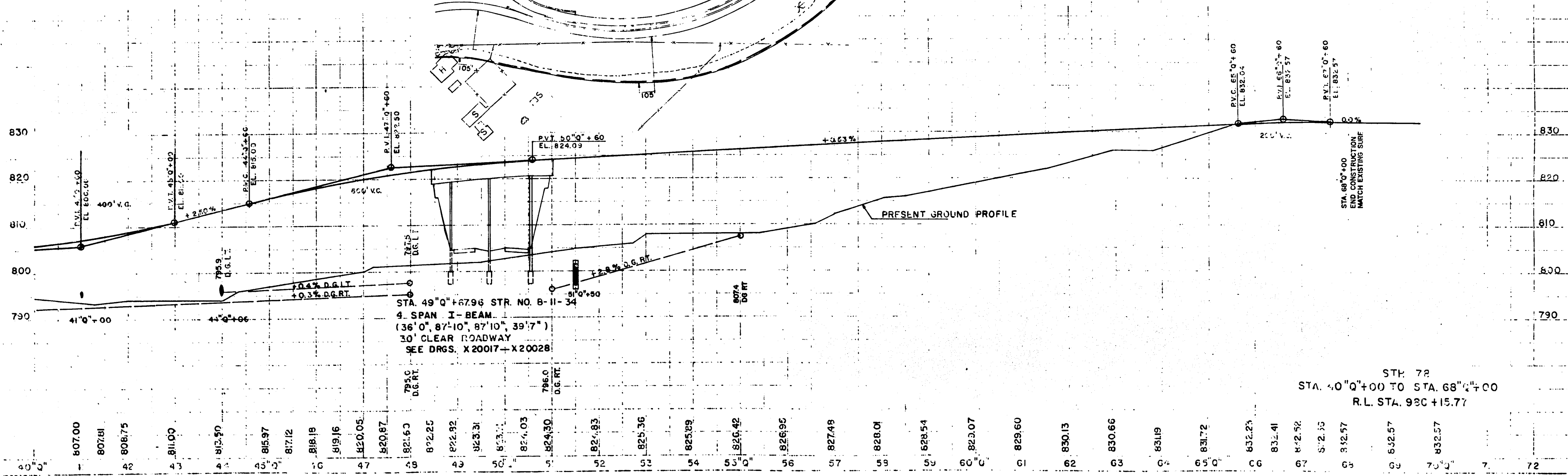
DATE	BY	CHECKED	DATE
1-27-2018			
SHEET NUMBER	20	TOTAL SHEETS	264

DRAINAGE STRUCTURES									
STATION	LOCATION	SKETCH	STRUCTURE	TYPE	STRUCT. NO.	SIZE	LENGTH	INVERT ELEV.	INLET D.SCH.
14°0'00	R.L.	0°	10"	C.P.		30"	148'	795.7	794.0
31°0'00	R.L.	24°0'00	BOX CULV.	R.C.	6-11-16	8'x5'	160'	797.0	796.2



$PI = 63^{\circ}0' + 65.75$
 $I = 161^{\circ}23'48''$
 $\Delta = 15^{\circ}36'12''$
 $D = 2^{\circ}00'$
 $R = 2864.93$
 $T = 392.53'$
 $L = 780.17'$
 $E = 26.77'$
 $S.F. = 0.056\%$

FOR LOCATION SEE SHEET NO. 18-19
 FOR DETAILS OF INTERCHANGE SEE SHEET NOS. 21-25, 213-217



DRAINAGE STRUCTURES										
STATION	LOCATION	SKW	STRUCTURE TYPE	SIZE	LENGTH	INV. INLET	ELEV. DISCH.	GRATE TYPE	ELEV.	
969B+50	29'LT.	—	INLET	1-P	3.0'DEEP	—	823.0	P	826.00	
969B+50	29'LT.	0°	PIPE	C.P.	18"	48'	823.0	—	—	
971B+82	27'LT.	—	INLET	1-N	4.0'DEEP	—	822.0	N	826.00	
971B+82	27'LT.	0°	PIPE	C.P.	18"	26'	822.0	—	—	
971B+82	R.L.	—	C.B.	3-A	7.8'DEEP	—	820.0	A	823.52	
971B+82	R.L.	0°	PIPE	C.P.	18"	34'	817.8	—	—	
974B+00	28'LT.	—	INLET	1-N	4.0'DEEP	—	820.1	N	824.08	
974B+00	28'LT.	0°	PIPE	C.P.	18"	26'	820.1	—	—	
974B+00	R.L.	—	C.B.	3-A	5.9'DEEP	—	818.0	A	821.78	
974B+00	R.L.	0°	PIPE	C.P.	18"	20'	817.6	—	—	
983B+18	R.L.	0°	PIPE	C.P.	30"	66'	800.5	—	799.5	
984B+00	R.L.	—	INLET	1-N	3.1'DEEP	—	800.7	N	803.81	
984B+00	R.L.	0°	PIPE	C.P.	18"	22'	800.7	—	799.0	

NOTE: FOR GRADE ELEVATIONS OF TANGENT CONNECTION OF RAMP B TO STH. 78 BETWEEN 972+77.57 & 560+93.83 SEE TABLE ON SHEET

GENERAL NOTES:
FOR GUTTER GRADE TREATMENT SEE SHEET
TAPER ALL CURB ENDS FROM 6" TO 0" IN TEN FEET AS PER DETAIL ON SHEET
FOR DETAIL OF EXIT NOSE SEE SHEET

FOR DETAILS OF RAMP CONNECTION WITH STH 78 SEE SH. 2.13

FOR DETAILS OF RAMP C SEE SHEET 22

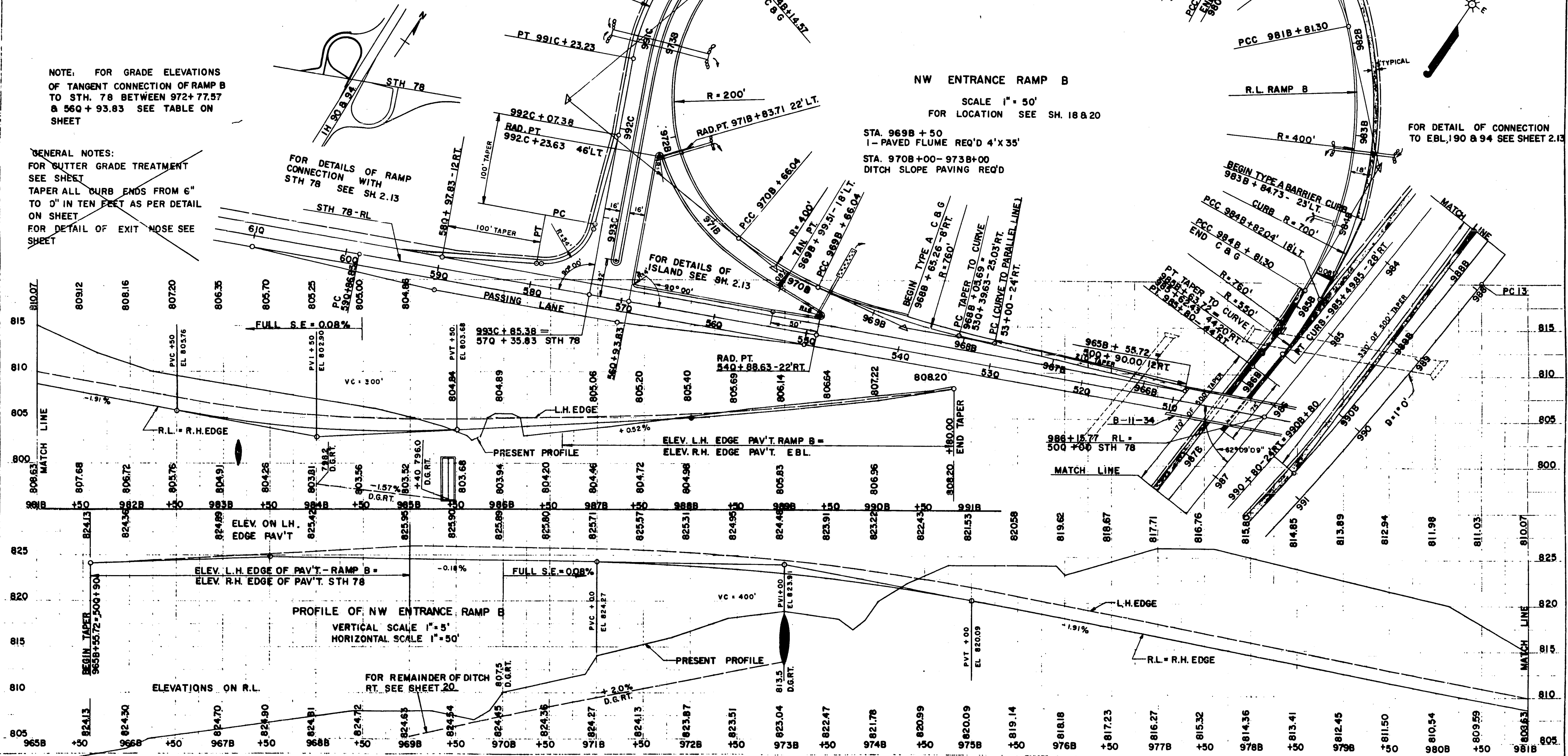
NW ENTRANCE RAMP B

SCALE 1" = 50'
FOR LOCATION SEE SH. 18 & 20

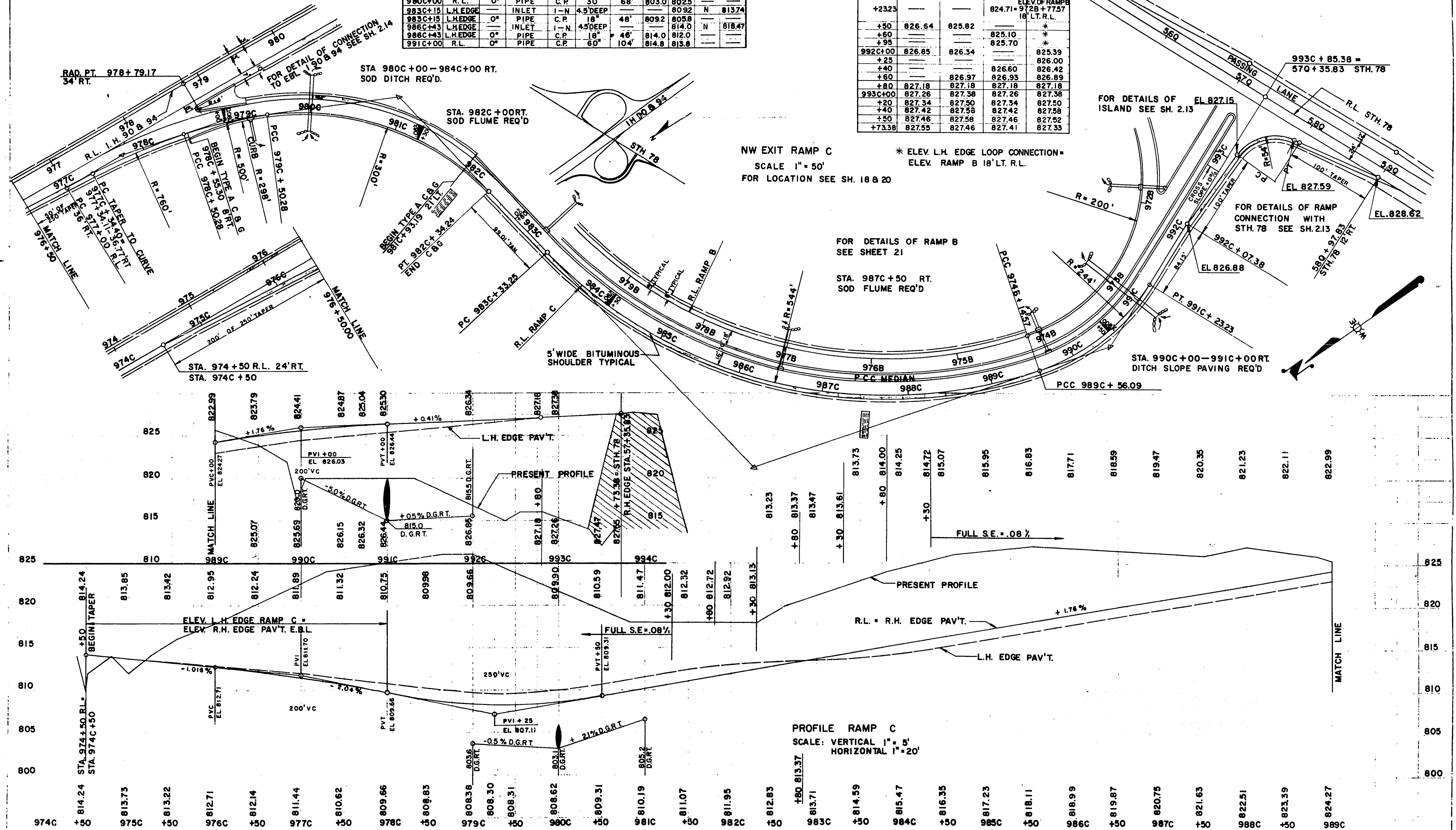
STA. 969B + 50
1- PAVED FLUME REQ'D 4'x35'
STA. 970B + 00 - 973B + 00
DITCH SLOPE PAVING REQ'D

FOR DETAILS OF ISLAND SEE SH. 2.13

FOR DETAIL OF CONNECTION TO EBL, 190 & 94 SEE SHEET 2.13

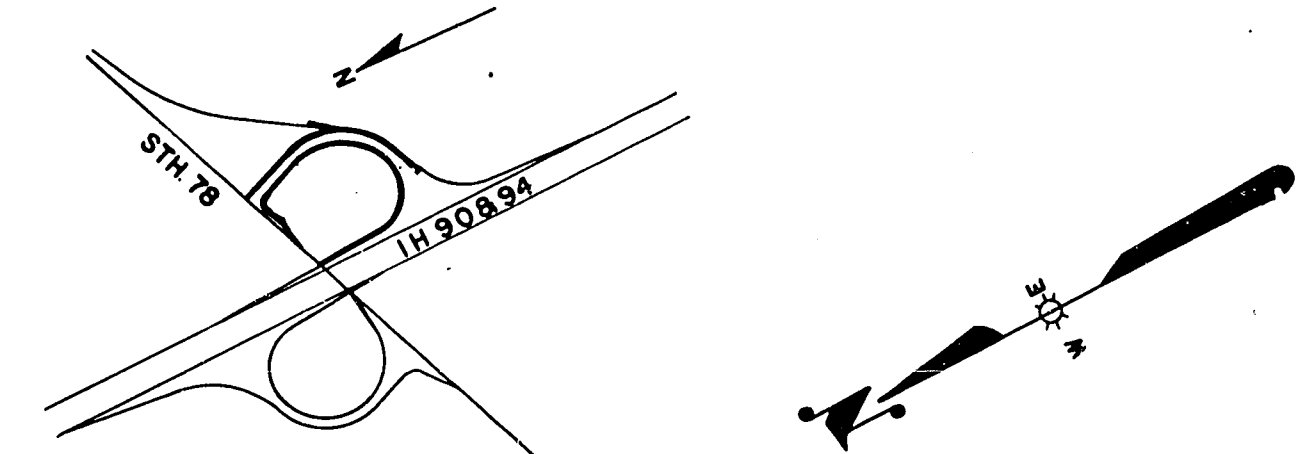


ELEV. FOR NW RAMP CONNECTIONS WITH STH. 78				
STATION	DISTANCE LEFT OF RAMP		C. R. L.	
	0'	16'	26'	42'
99IC+00	862.44	825.30		
+2323	—	—	ELEV. OF RAMP 824.71 + 927B + 7757 18' L.T.R.L.	
+50	826.64	825.82	—	*
+60	—	—	825.10	*
+95	—	—	825.70	*
992C+00	826.85	826.34		825.39
+25	—	—		826.00
+40	—	—	826.60	826.42
+60	—	826.97	826.93	826.89
+80	827.18	827.18	827.18	827.18
993C+00	827.26	827.38	827.26	827.38
+20	827.34	827.50	827.34	827.50
+40	827.42	827.58	827.42	827.58
+50	827.46	827.58	827.46	827.52
+73.38	827.55	827.46	827.41	827.33



FOR DETAILS OF RAMP E,
SEE SHEET 24.

DRAINAGE STRUCTURES									
STATION	LOC.	SKEW	STRUCT.	TYPE	SIZE	LGTH.	INV. EL.	GRATE	EL.
989D+00	R.L.	—	INLET	I-N	40DEEP	—	—	—	80398
989D+00	LT. R.L.	0°	PIPE	C.P.	18"	20'	800.0	7990	—
990D+50	R.L.	0°	PIPE	C.P.	18"	72'	801.5	7998	—



GENERAL NOTES:
FOR GUTTER GRADE TREATMENT, SEE SHEET
TAPER ALL CURB ENDS FROM 6" TO 0"
IN TEN FEET AS PER DETAIL ON SHEET
FOR DETAIL OF EXIT NOSE SEE SHEET

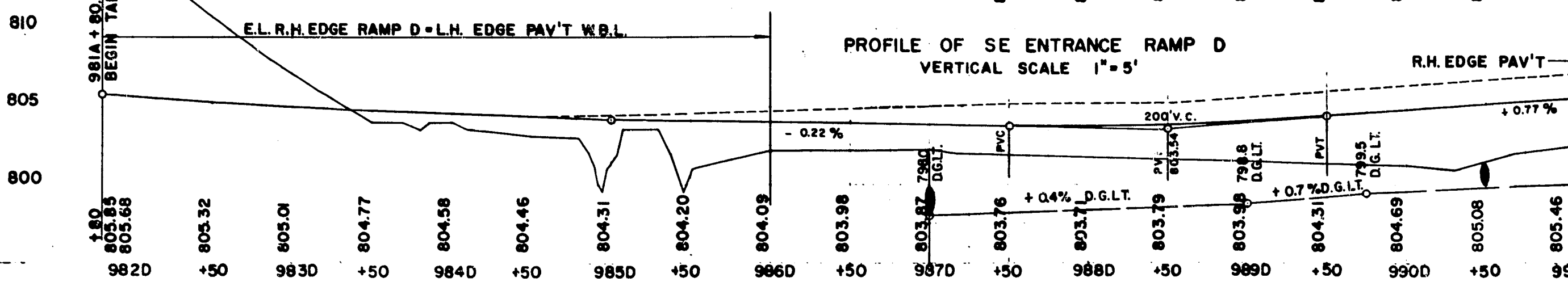
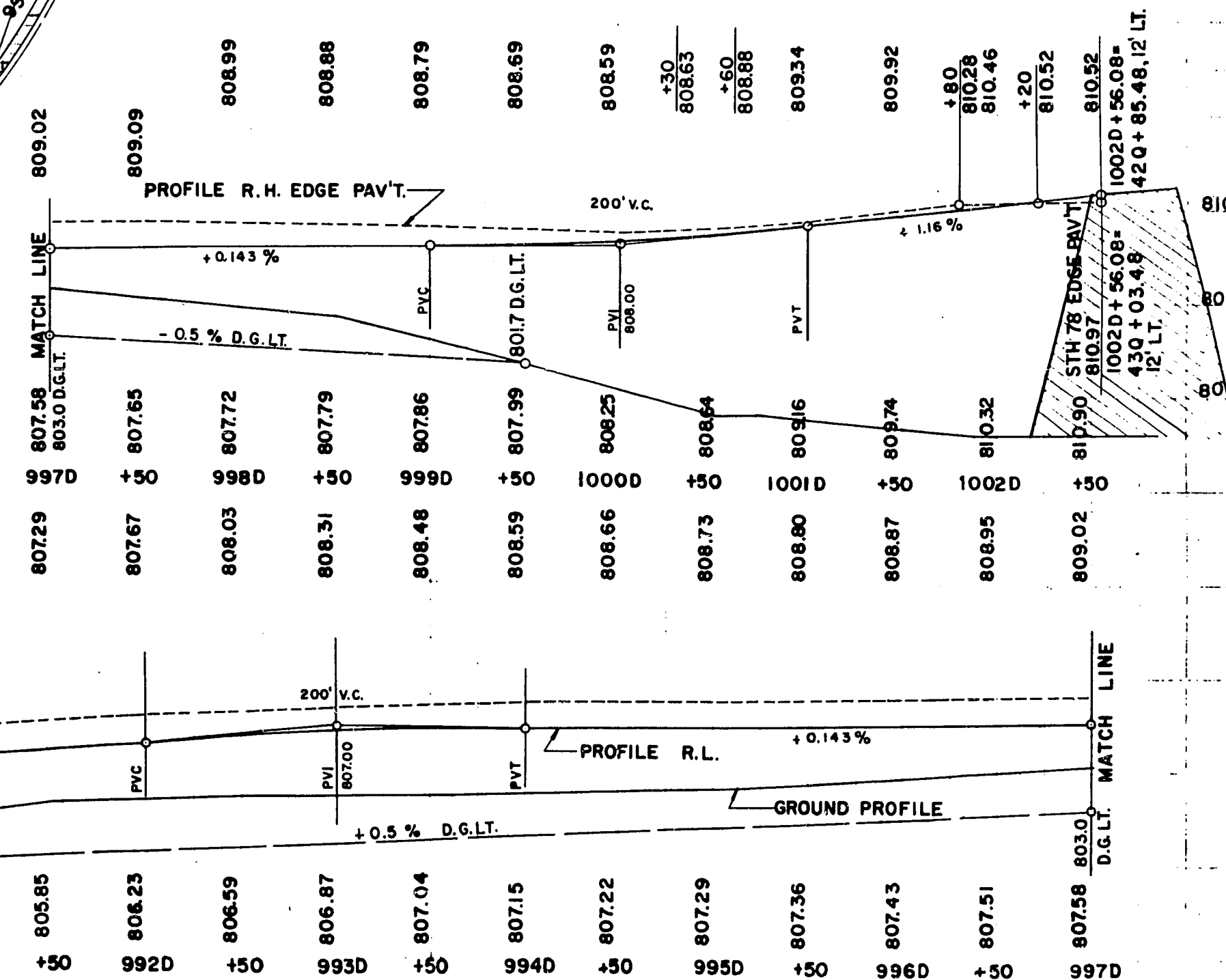
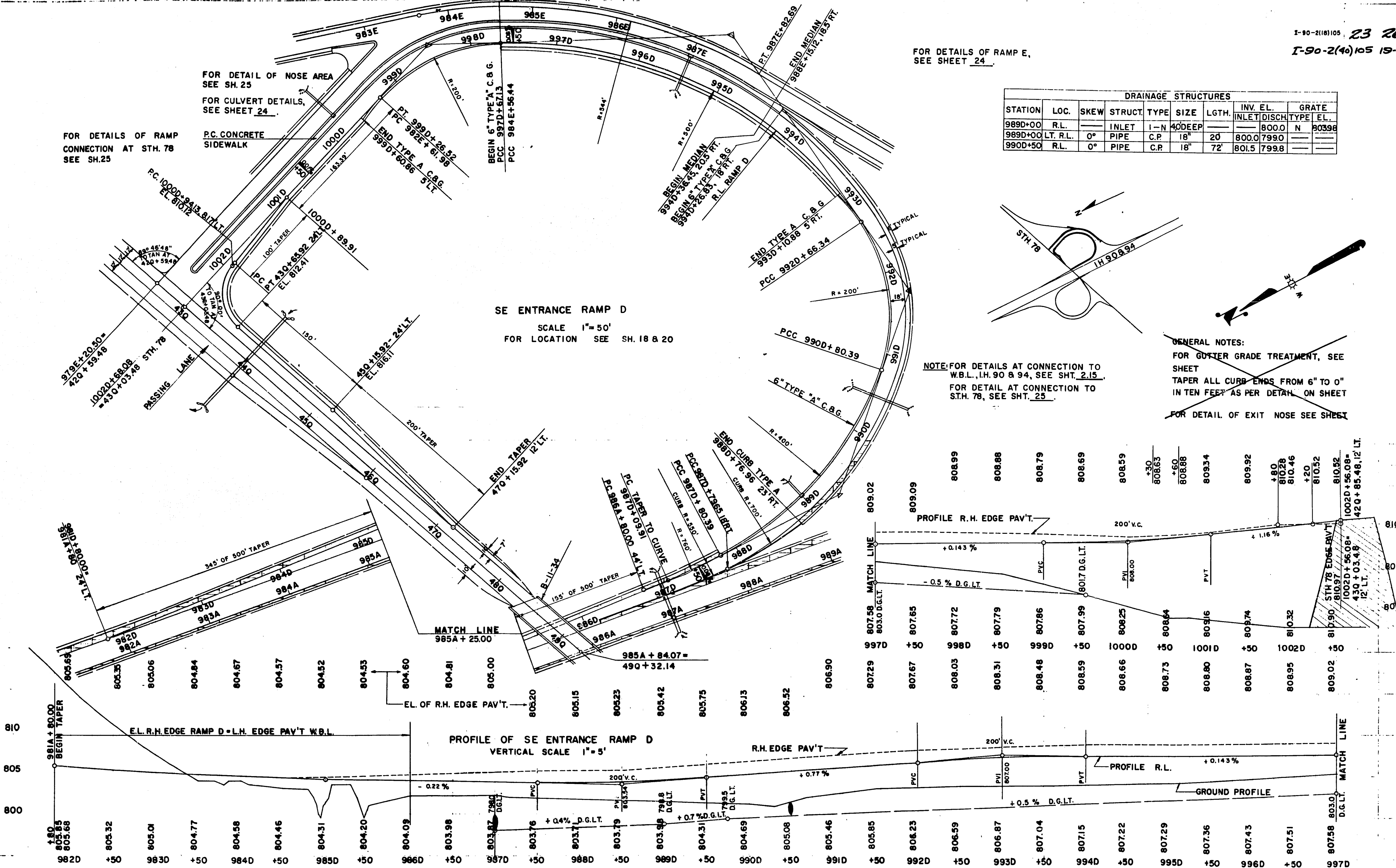
NOTE: FOR DETAILS AT CONNECTION TO
W.B.L., I.H. 90 & 94, SEE SHT. 2.15.
FOR DETAIL AT CONNECTION TO
S.T.H. 78, SEE SHT. 25.

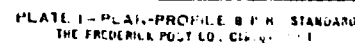
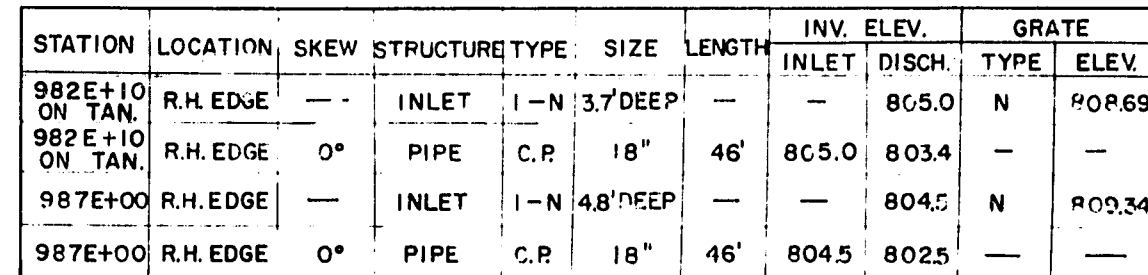
SE ENTRANCE RAMP D
SCALE 1"=50'
FOR LOCATION SEE SH. 18 & 20

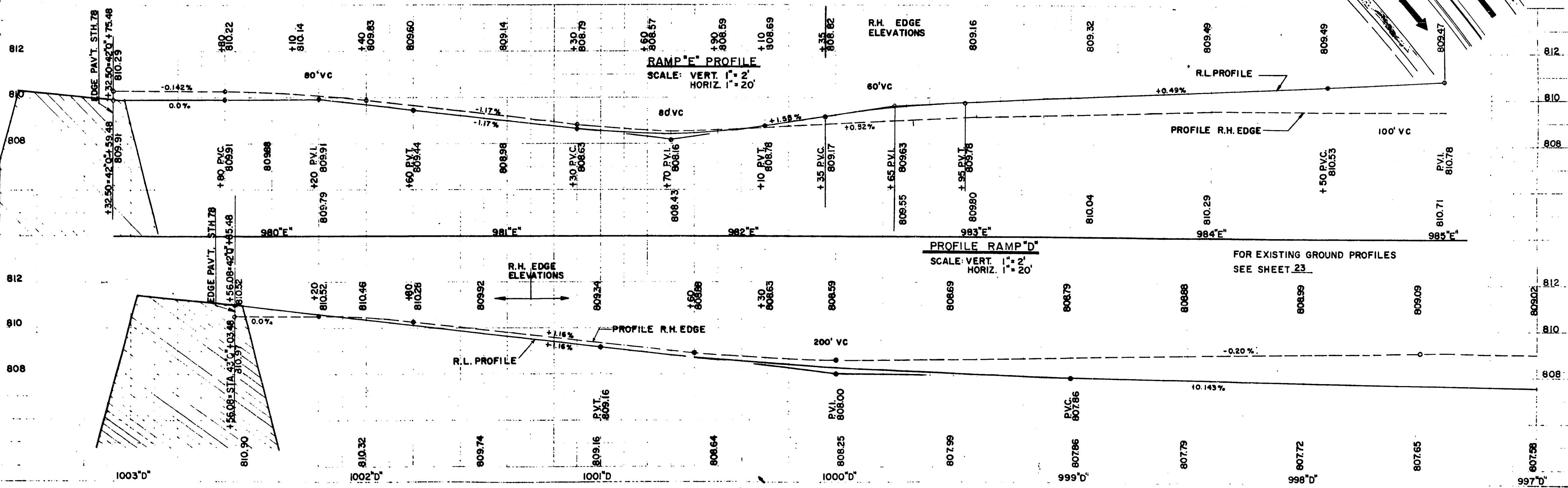
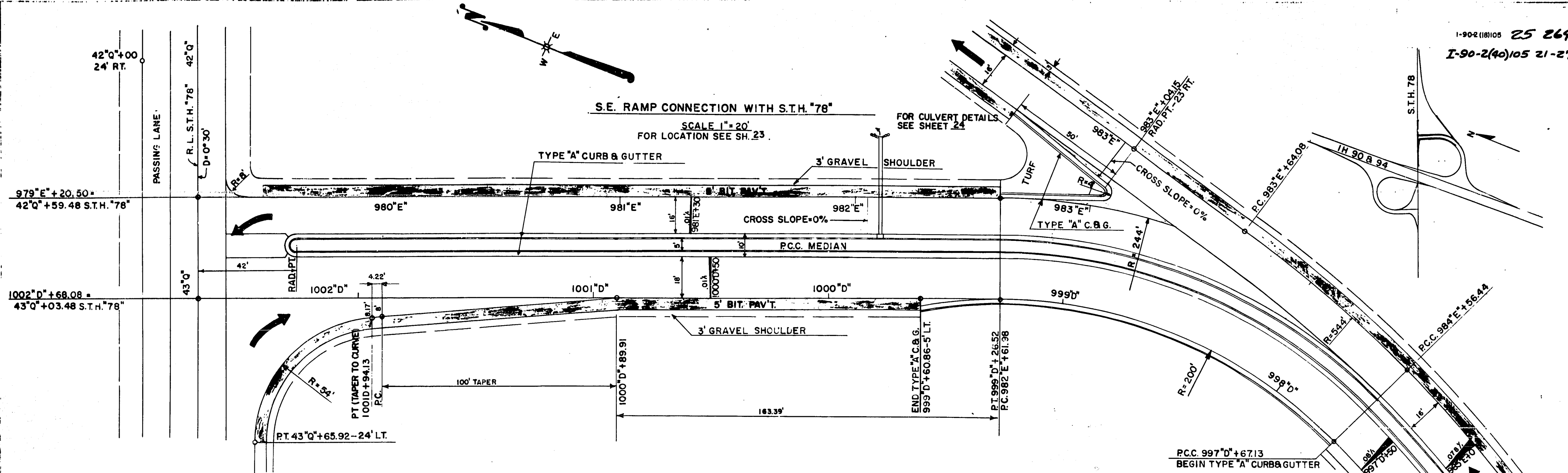
FOR DETAIL OF NOSE AREA
SEE SH. 25
FOR CULVERT DETAILS,
SEE SHEET 24.

FOR DETAILS OF RAMP
CONNECTION AT STH. 78
SEE SH. 25

P.C. CONCRETE
SIDEWALK





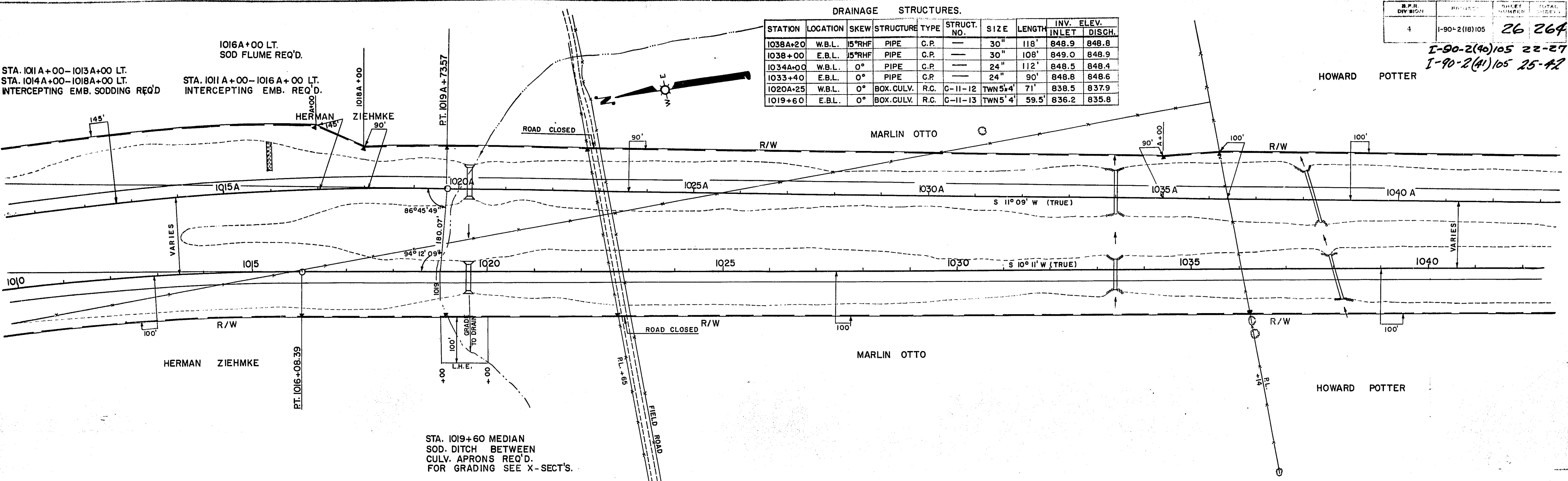


S.F.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	I-90-2(18)105	26	264

I-90-2(40)105 22-27
I-90-2(41)105 25-42

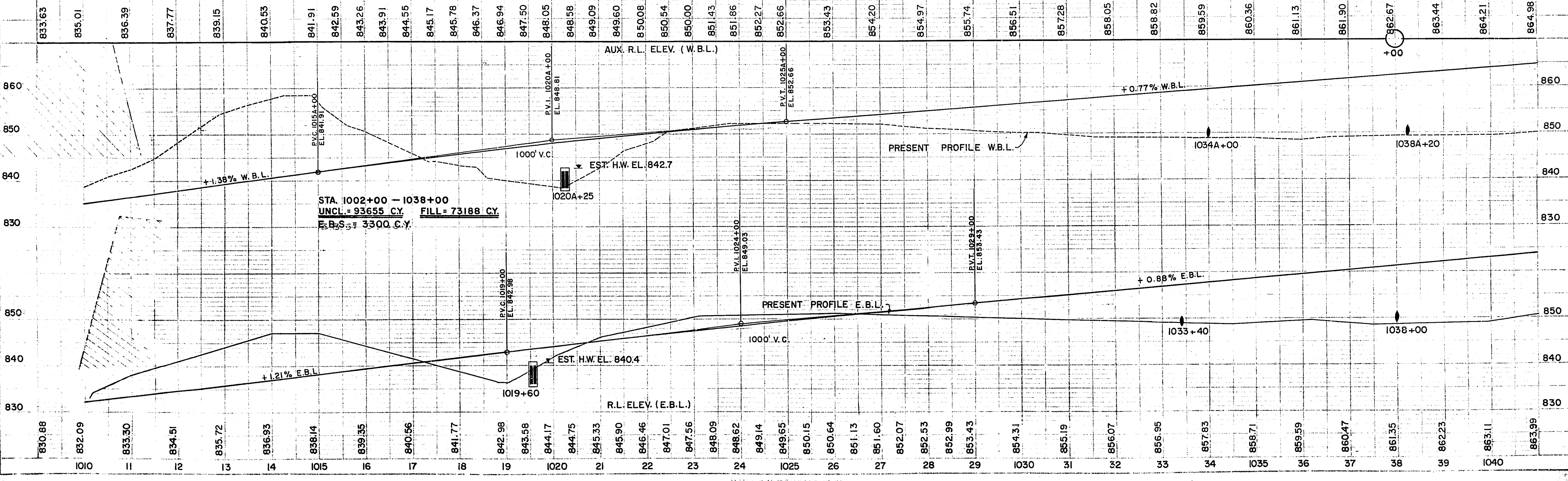
HOWARD POTTER

DRAINAGE STRUCTURES.									
STATION	LOCATION	SKEW	STRUCTURE	TYPE	STRUCT. NO.	SIZE	LENGTH	INV. ELEV. INLET	DISCH.
1038A+20	W.B.L.	15°RHF	PIPE	C.P.	—	30"	118'	848.9	848.8
1038+00	E.B.L.	15°RHF	PIPE	C.P.	—	30"	108'	849.0	848.9
1034A+00	W.B.L.	0°	PIPE	C.P.	—	24"	112'	848.5	848.4
1033+40	E.B.L.	0°	PIPE	C.P.	—	24"	90'	848.8	848.6
1020A+25	W.B.L.	0°	BOX.CULV.	R.C.	G-11-12	TWN5'4"	71'	838.5	837.9
1019+60	E.B.L.	0°	BOX.CULV.	R.C.	G-11-13	TWN5'4"	59.5'	836.2	835.8



STA. 1019+60 MEDIAN
SOD. DITCH BETWEEN
CULV. APRONS REQ'D.
FOR GRADING SEE X-SECT'S.

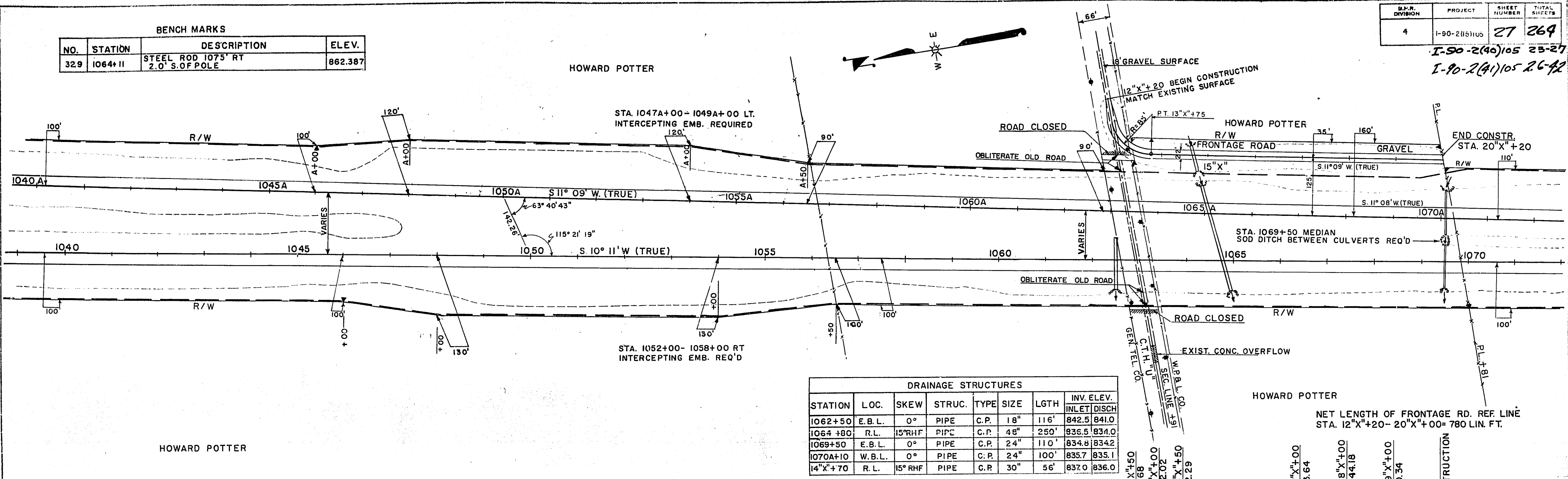
NET LENGTH OF REFERENCE LINE STA. 1010 TO STA. 1040 = 3,000 LIN. FT.



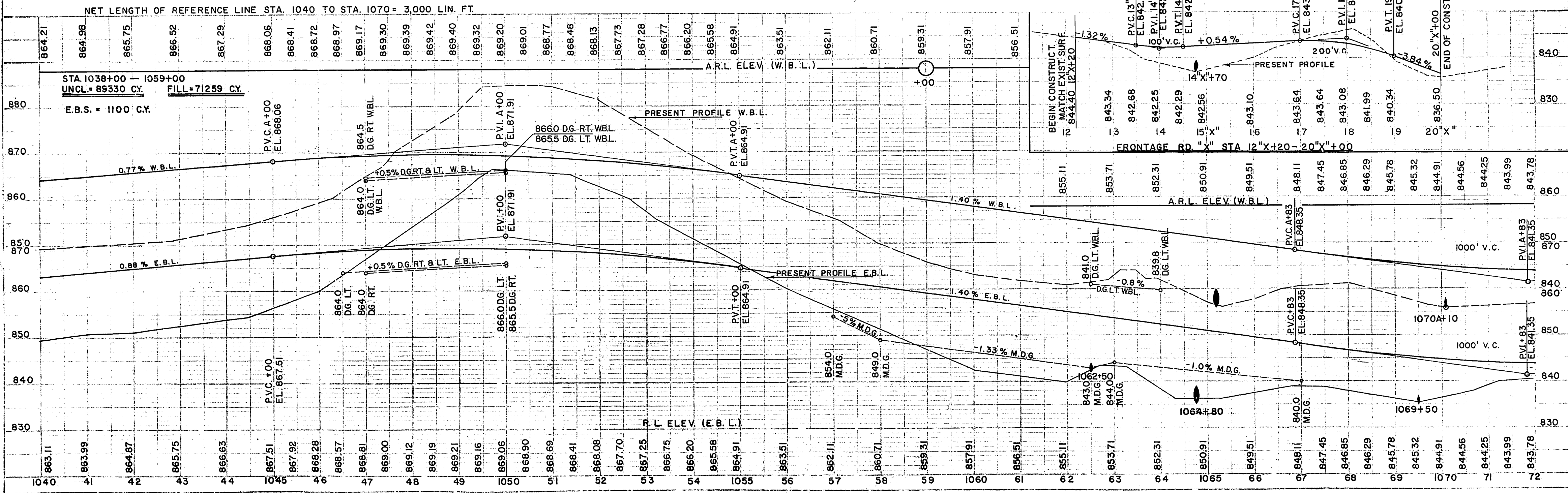
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
329	1064+11	STEEL ROD 1075' RT 2.0' S.OF POLE	862.387

D.M.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	I-90-2(15)105	27	269

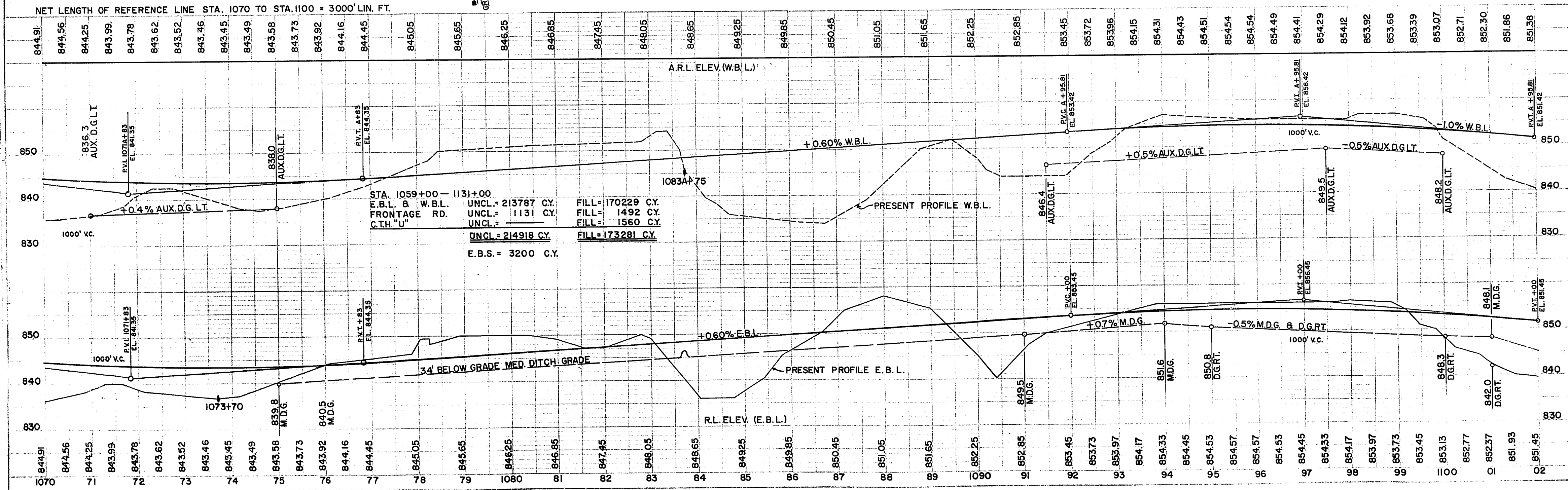
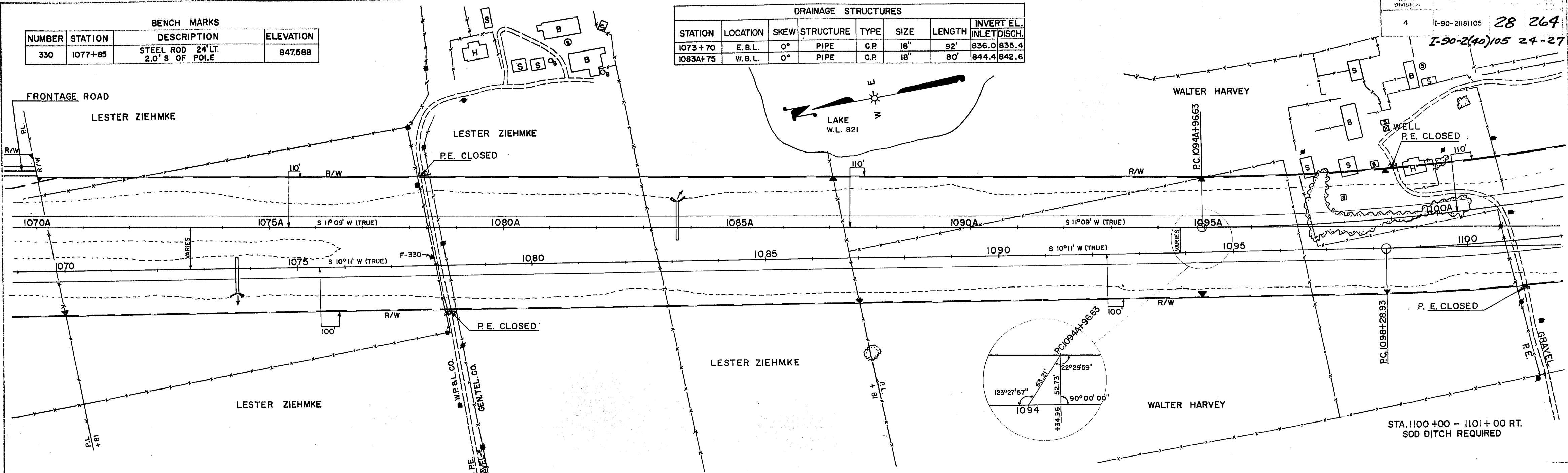
I-90-2(40)105 23-27
I-90-2(41)105 26-42



DRAINAGE STRUCTURES							
STATION	LOC.	SKEW	STRUC.	TYPE	SIZE	LGTH	INV. ELEV.
1062+50	E.B.L.	0°	PIPE	C.P.	18"	116'	842.5 841.0
1064+80	R.L.	15° RHF	PIPE	C.P.	48"	250'	836.5 834.0
1069+50	E.B.L.	0°	PIPE	C.P.	24"	110'	834.8 834.2
1070A+10	W.B.L.	0°	PIPE	C.P.	24"	100'	835.7 835.1
14"x+70	R.L.	15° RHF	PIPE	C.P.	30"	56'	837.0 836.0



DRAINAGE STRUCTURES							
STATION	LOCATION	SKEW	STRUCTURE	TYPE	SIZE	LENGTH	INVERT EL. INLET DISCH.
1073 + 70	E. B. L.	0°	PIPE	C.P.	18"	92'	836.0 835.4
1083A+ 75	W. B. L.	0°	PIPE	C.P.	18"	80'	844.4 842.6



DRAINAGE STRUCTURES							
STA.	LOC.	SKEW	STRUCT.	TYPE	SIZE	LENGTH	INVERT ELEV.
1105+55	E.B.L.	0°	PIPE	C.P.	36"	116'	8337.831.
1106A+00	W.B.L.	0°	PIPE	C.P.	30"	106'	8360.834.
1125A+80	W.B.L.	0°	PIPE	C.P.	24"	76'	8245.824.
1131+50	E.B.L.	0°	PIPE	C.P.	18"	62'	8233.822.

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
F608	1114+30	1/4" STL. ROD FLUSH 2'S. OF COR. POST 278' LT.	846.731
TT11DC	1113+00	STD. DISK TOP OF CONC. MON 121' RT	832.825
		25' W. CTH "U" & 67.5' N. OF FENCE COR.	

DRAINAGE STRUCTURES

STA.	LOC.	SKEW	STRUCT.	TYPE	SIZE	LENGTH	INV. ELEV.
1105+55	E.B.L.	0°	PIPE	C.P.	36"	116'	833.7
1106A+00	W.B.L.	0°	PIPE	C.P.	30"	106'	836.0
1125A+80	W.B.L.	0°	PIPE	C.P.	24"	76'	824.5
1131+50	E.B.L.	0°	PIPE	C.P.	18"	62'	823.3

NET LENGTH OF REFERENCE LINE STA. 1100 - STA. 1131+56=3156 LIN. FT.

SEE SHEET NO. 29 FOR DETAILS OF RELOC. CTH "U"

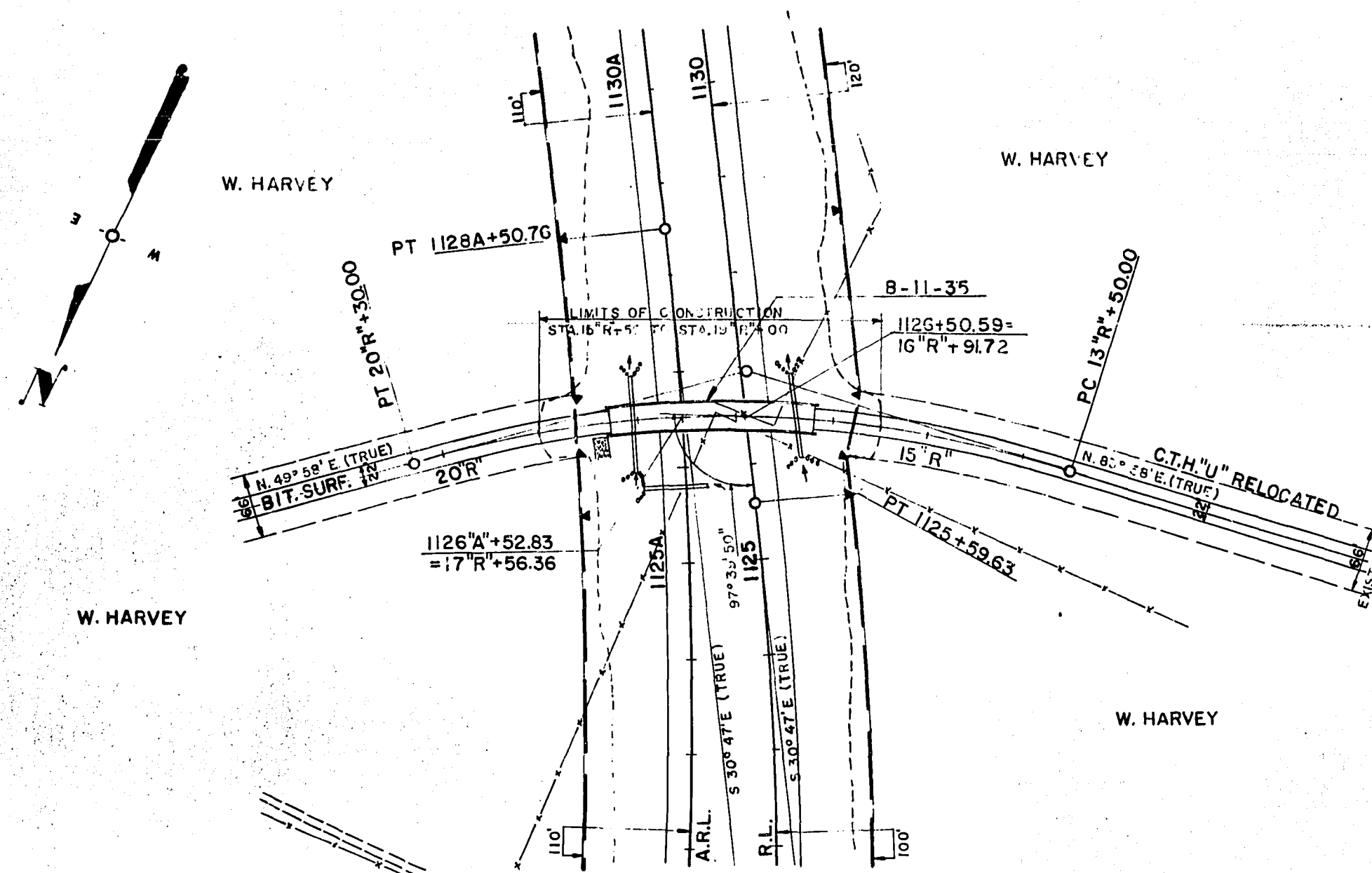
END CONTRACT 2 STA. 1131+56 PROJ. 1-90-2(18)105 END PROJ. 1-90-2(40)105

PLATE 1 - PLAN-PROFILE S.M.R. STANDARD THE FREDERICK POST CO., PHILADELPHIA, PA.

BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
F 608	1114+30	3/4" STEEL ROD FLUSH 2' S OF CORNER POST 278' LT.	846.731
TTIIC	1113+00	STD. D.K. TOP OF MON 1217' RT. 67.5' N OF FENCE CORNER	832.825

L.P.	PROJECT	INCHES	TOTAL SHEETS
4	1-90-2(10)105	30	264

DRAINAGE STRUCTURES							
STA.	LOC.	SKEW	STRUCT	TYPE	SIZE	LENGTH	INVELEV. INLET DISCH.
18"R"+06	R.L.	0°	PIPE	C.P.	36"	96'	8236 823.1
16"R"+40	R.L.	9°RH	PIPE	C.P.	30"	92'	8270 826.5

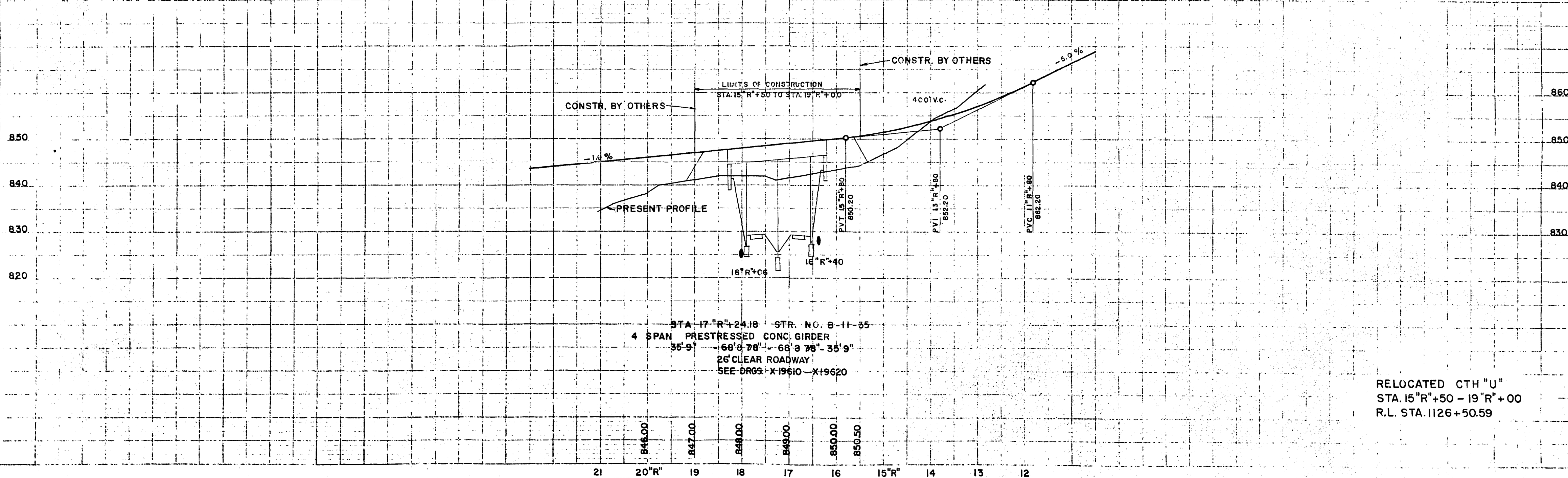


R.L. 17"R"+00.45
 I = 21.000'
 A = 34° 00'
 D = 5° 00'
 R = 1148.28'
 L = 650.00'
 T = 350.45'
 E = 52.58'
 S.E. = 0.077/FT

FOR LOCATION OF RELOCATED C.T.H. "U"
 SEE SHEET NO. 29

SOD FLUME REQ'D L.T.
 AT NORTH END OF STRUCT.

NET LENGTH OF RELOCATED C.T.H. "U" STA. 15"R"+50 TO STA. 19"R"+00 = 135.10' LIN. FT.



RELOCATED C.T.H. "U"
 STA. 15"R"+50 - 19"R"+00
 R.L. STA. 1126+50.59