

NOTE: WHENEVER F-170-1(16) APPEARS IN THESE PLANS OR CONTRACT DOCUMENTS IT SHALL BE INTERPRETED AS MAF-F 170-1(16).

7,047
9,890
872
50
15
70 MPH
FULL

INDIANA DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY MAF-F PROJECT NO. 170-1

(004) P.E.
(004) R.W.
(16) CONST.
() FULL

BEGINNING AT A POINT APPROXIMATELY 1777.77 FEET SOUTH AND 281.5 FEET WEST OF THE NORTHEAST CORNER OF SECTION 22, TOWNSHIP 29 NORTH, RANGE 12 EAST, PLEASANT TOWNSHIP AND RUNNING IN A NORTHEASTERLY DIRECTION FOR A DISTANCE OF 13,350 FEET TO A POINT APPROXIMATELY 441.73 FEET EAST AND 238.22 FEET SOUTH OF THE NORTHWEST CORNER OF HUNTS RESERVE, PLEASANT TOWNSHIP, ALL IN ALLEN COUNTY.

2.528
2.513

-0.20%

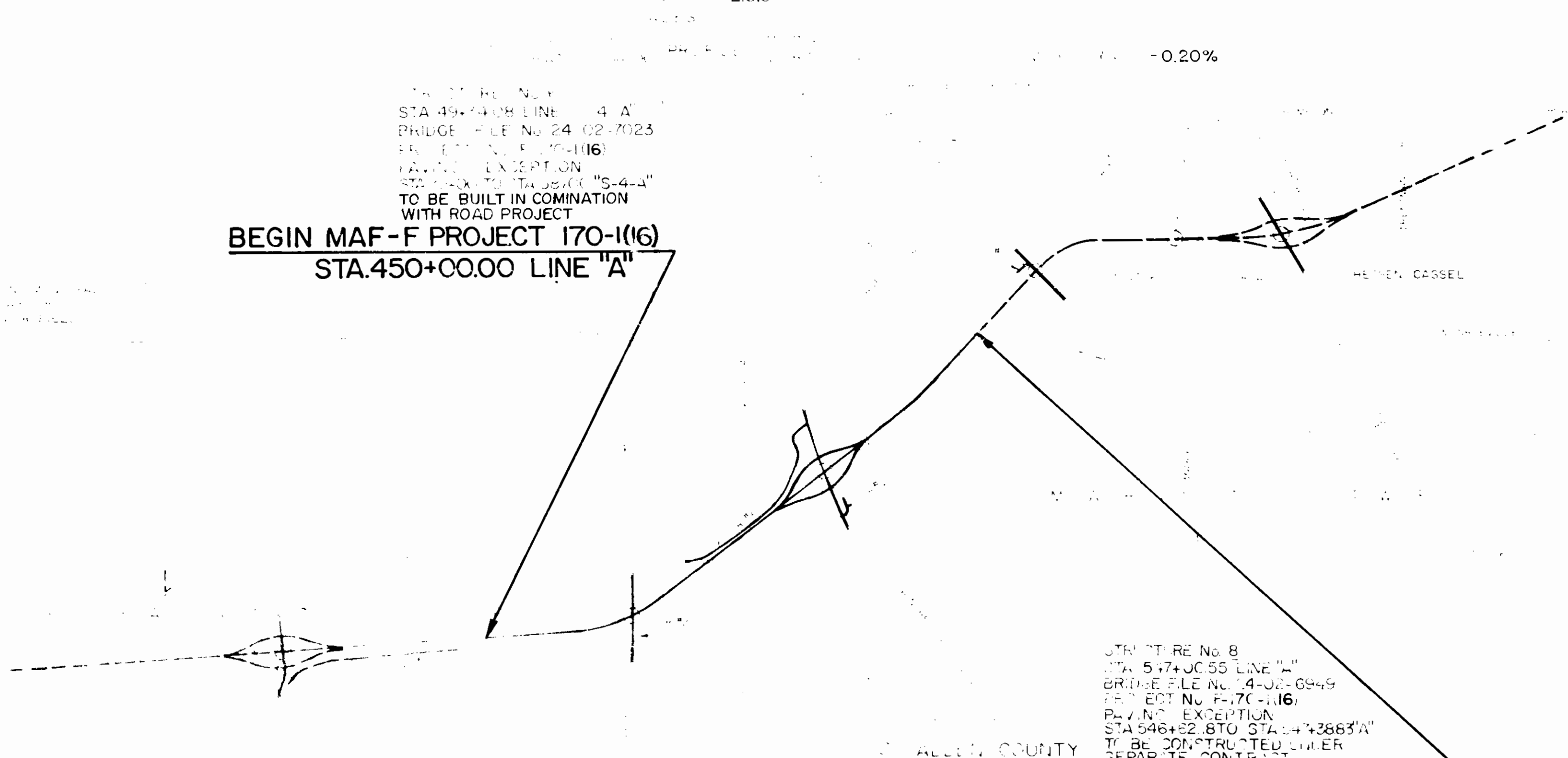
TRAFFIC SIGN No. 4
STA 49+74.08 LINE "A"
BRIDGE FILE NO. 24-02-7023
PROJECT NO. F-170-1(16)
PLANNING EXCEPTION
STA 49+00.00 TO STA 49+74.08
TO BE BUILT IN COMINATION
WITH ROAD PROJECT

**BEGIN MAF-F PROJECT 170-1(16)
STA. 450+00.00 LINE "A"**

FOR PLACEMENT OF CONSTRUCTION SIGN AND BARRICADES SEE SHEET No. 9

R 17482

1 OF 3



HENRY CASSEL

TRAFFIC SIGN No. 8
STA. 547+00.55 LINE "A"
BRIDGE FILE NO. 24-02-6949
PROJECT NO. F-170-1(16)
PLANNING EXCEPTION
STA 546+82.8 TO STA 547+388.5
TO BE CONSTRUCTED UNDER
SEPARATE CONTRACT

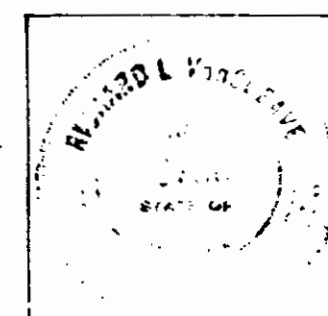
ALLEN COUNTY

TRAFFIC SIGN No. 7
STA 49+00.00 LINE "S-4-A"
BRIDGE FILE NO. 24-02-7023
PROJECT NO. F-170-1(16)
PLANNING EXCEPTION
STA 49+00.00 TO STA 49+74.08
TO BE BUILT IN COMINATION
WITH ROAD PROJECT.

**END MAF-F PROJECT 170-1(16)
STA. 583+50.00 LINE "A"**

RECOMMEND FOR APPROVAL 3-1-88
DATE

Richard P. Van Arman
REAL ENGINEER



RECOMMEND FOR APPROVAL 3-1-88
DATE

Angus Z. Hornick
DEPARTMENT OF TRANSPORTATION

APPROVAL 3-2-88
DATE

R. E. Standa
CHIEF ENGINEER



2-21-88

M. D. Orion

A II PLAIN CONCRETE PAVEMENT SHALL BE U. F. 3-7

38,39

2J-31

36,37

See Mu

See Mu

BRIDGE STANDARD DRAWINGS			
SHEET NO.	DESIGNATION	F.H.W.A. APPROVAL	DATE ADOPTED ("A" LATEST REVISIONS)
90B	BRIDGE STD. BEE	1-22-87	R 12-1-87
90C	BRIDGE STD. C1	2-3-87	R 2-2-87
90D	BRIDGE STD. C3	*	R 11-2-87
90E	BRIDGE STD. C4	12-4-74	R 10-29-74
90F	BRIDGE STD. D	1-22-87	R 12-1-86
90G	BRIDGE STD. F1	1-22-87	R 12-1-86

1
2
3-7
8
9
10-18
19-32
33-37
38-39
40-42
43-46
47-49
50-51
52

53
54
54A

55

55A
55B
55C
55D
56
57
58
59
60
61
61A

62
62A
63

64
65
66
67
68

69
70
71
72
73
73A
73B

74
75

76
76A
77

77A

78
79
79A

80
81
82
83
84
85
86
87
88
89
90A

91-100

	*	11-2-87
10-23-87	R 8-3-87	
	*	11-2-87
5-21-82	R 4-1-82	
6-14-74	R 1-2-74	
5-5-87	R 4-1-87	
12-27-82	R 10-1-82	
4-7-87	A.I.A.R.C.H., 1987	
4-7-87	A.I.A.R.C.H., 1987	
6-27-85	R-9-4-84	
*	R-11-2-87	
*	R-11-2-87	
*	R-11-2-87	
6-27-85	R 9-4-84	
	3	
2-3-87	R 2-2-87	
10-23-87	8-3-87	

	T-17"	
	MT-18"	
	*	A. NOV., 1987
	*	A. NOV., 1987
MISCELLANEOUS STANDARDS, SHEET	MV-4	DATED OCTOBER 1972
MISCELLANEOUS STANDARDS, SHEET	MU	
ST. D. STR. CONN. FOR EXTENSION, SHEET "MU"		
5-22-81	R-3-2-81	
6-27-85	R-9-4-84	

	*	R 4-1-82
	*	R 4-2-84

	*	R 4-1-82
--	---	----------

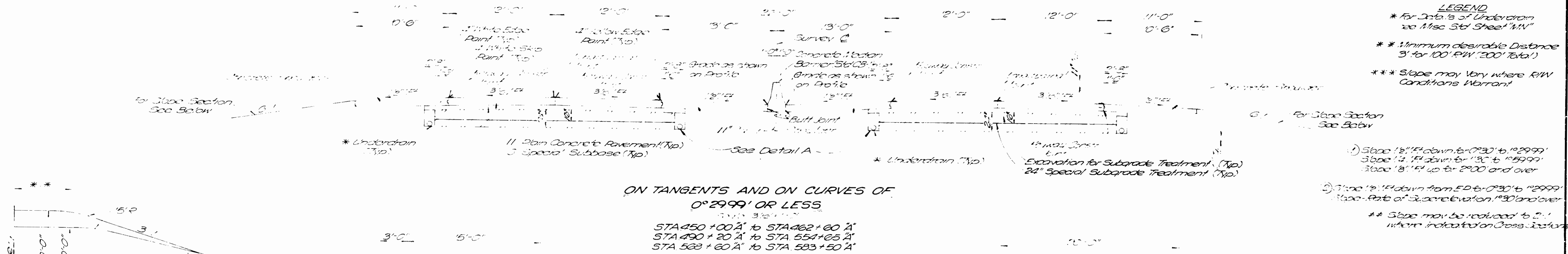
	*	A DEC., 1987
	*	2 4
10-23-87		9-3-87

STD. DETOUR SIGNS, SHEET 91	4-10-84	R 2-1-84
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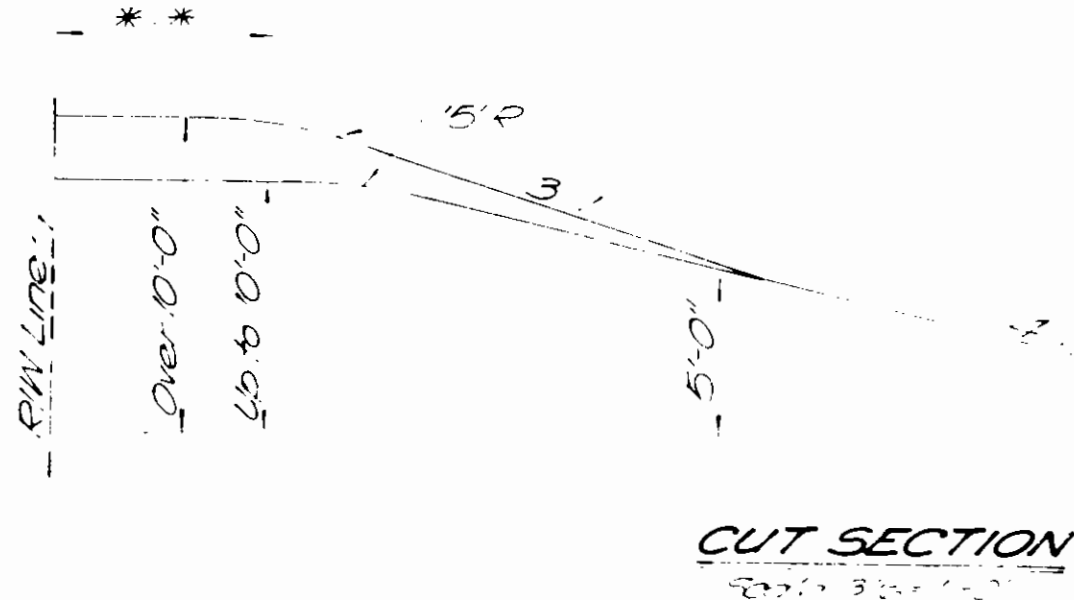
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-1100	1988	3	130

LEGEND
 * For Details of Underdrain see Misc Std Sheet "M.N."
 ** Minimum desirable Distance 3' for 100' R/W, 200' Total
 *** Slope may Vary where R/W Conditions Warrant

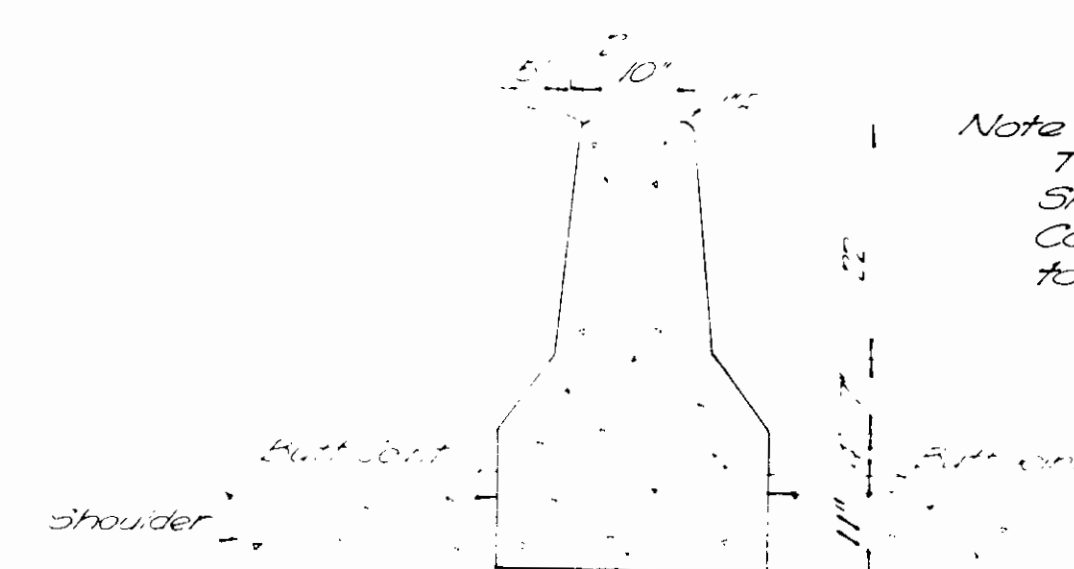
1) Slope 12" ft down for 0°30' to 0°29'99"
 Slope 12" ft down for 1°30' to 1°59'99"
 Slope 18" ft up for 2°00' and over
 2) Slope 12" ft down from ED to 0°30' to 0°29'99"
 Slope 18" ft down from ED to 1°30' and over
 ** Slope may be reduced to 2% where indicated on Cross Sections



ON TANGENTS AND ON CURVES OF 0°29'99' OR LESS
 STA 450+00.2' to STA 462+60.4'
 STA 490+20.2' to STA 554+65.4'
 STA 568+60.4' to STA 583+50.4'

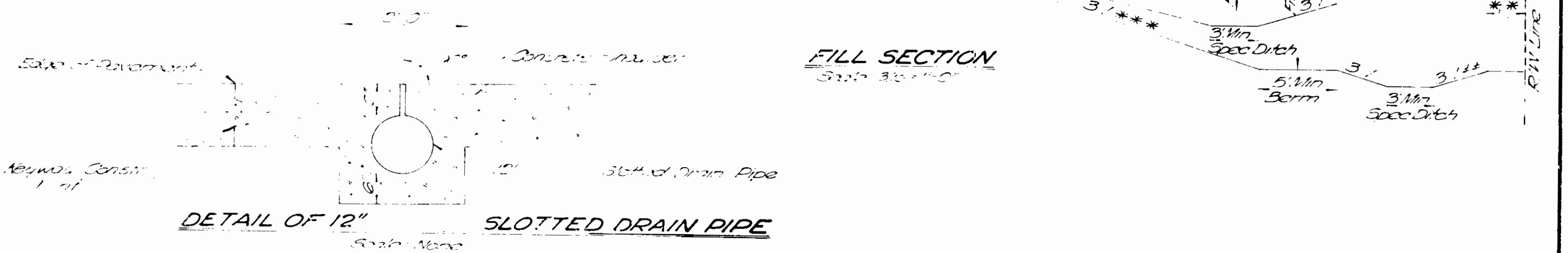


CUT SECTION
 Scale: 1/4" = 1'-0"

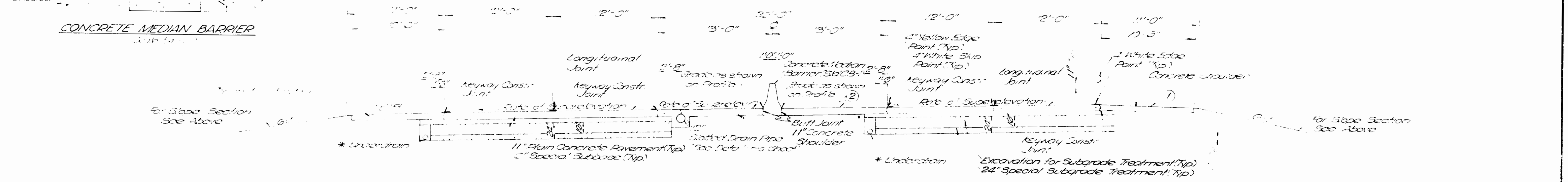


CONCRETE MEDIAN BARRIER
 Scale: 1/4" = 1'-0"

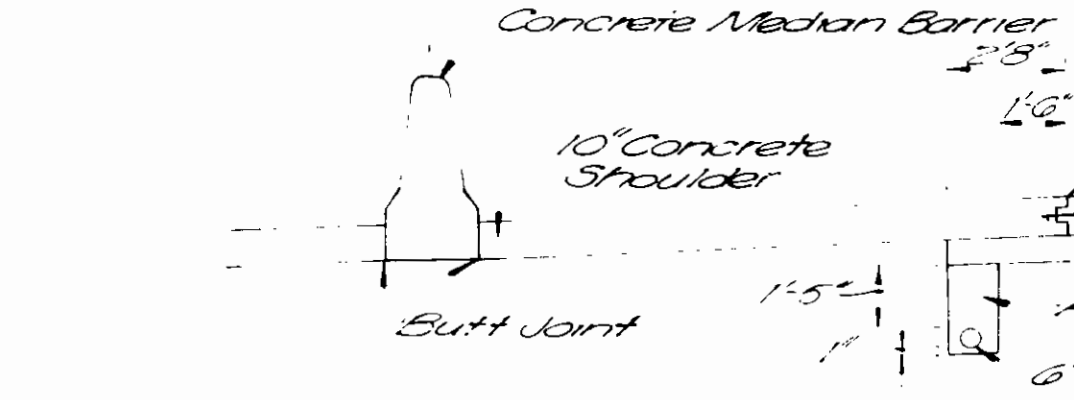
Note:
 The Exposed Surfaces of Concrete Median Barrier shall be Seal Coated & shall Receive a Masonry Coating. The Masonry Coating Color shall Conform to Federal Color Standard 575, Color No 27778 (Ivory)



DETAIL OF 12" SLOTTED DRAIN PIPE



ON CURVES TO LEFT OF 0°30' OR MORE
ON CURVES TO RIGHT REVERSED
 STA 462+60.4' to STA 490+20.4' (2°00'e+0.06511)
 STA 554+65.4' to STA 588+60.4' (0°36'e+RC)

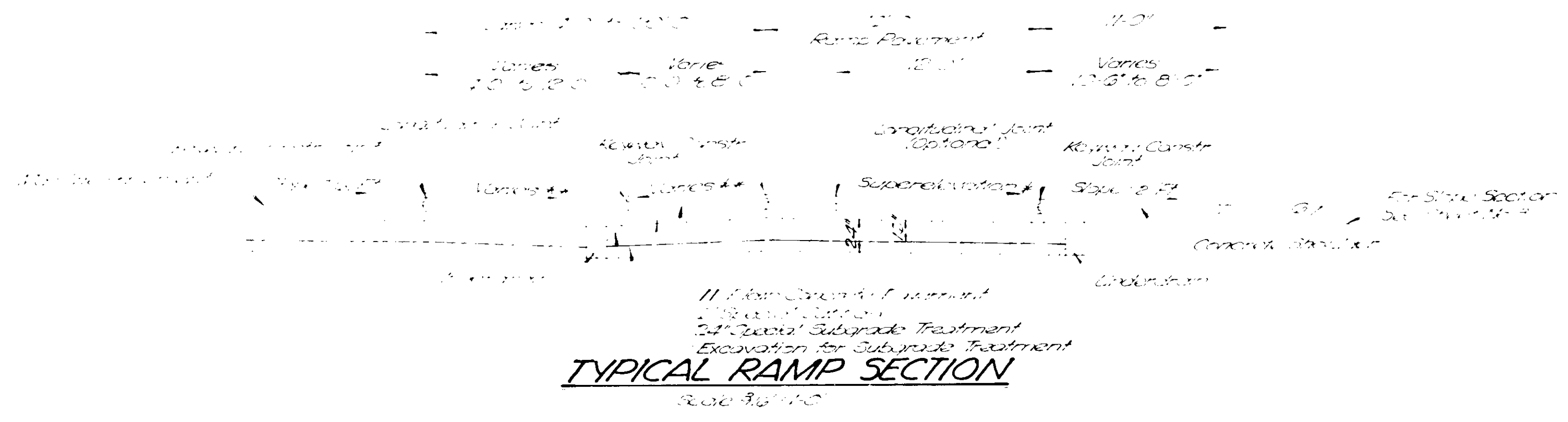


INSIDE EDGE UNDERDRAIN DETAIL A
 Scale: 1/4" = 1'-0"

TYPICAL CROSS SECTIONS

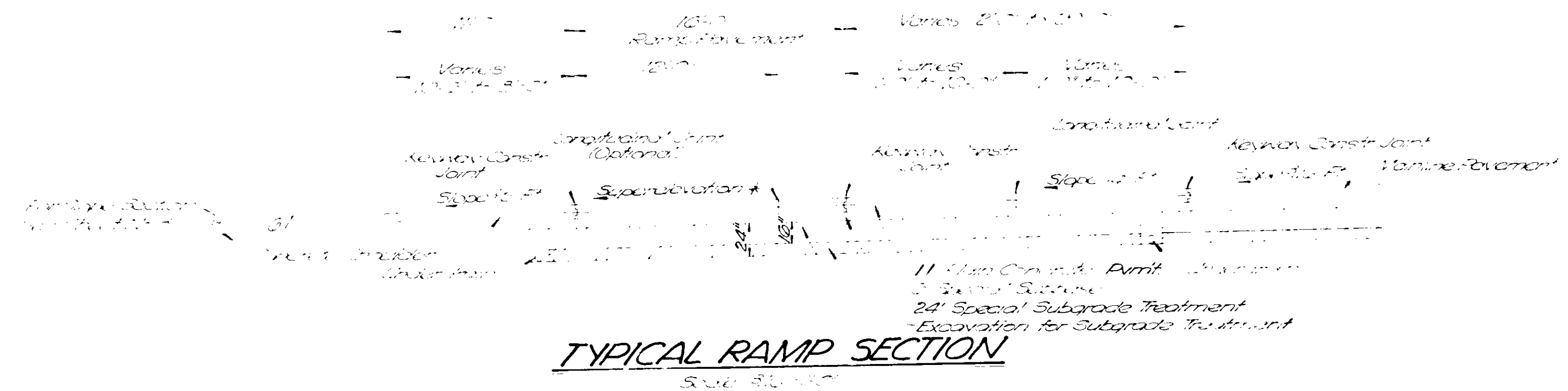
SCALE: As Shown

RECOMMENDED FOR APPROVAL



TYPICAL RAMP SECTION

"S-5-A" (WINCHESTER RD.)
 "SWR" = 0+00 to 4+00
 "NER" = 0+00 to 4+00

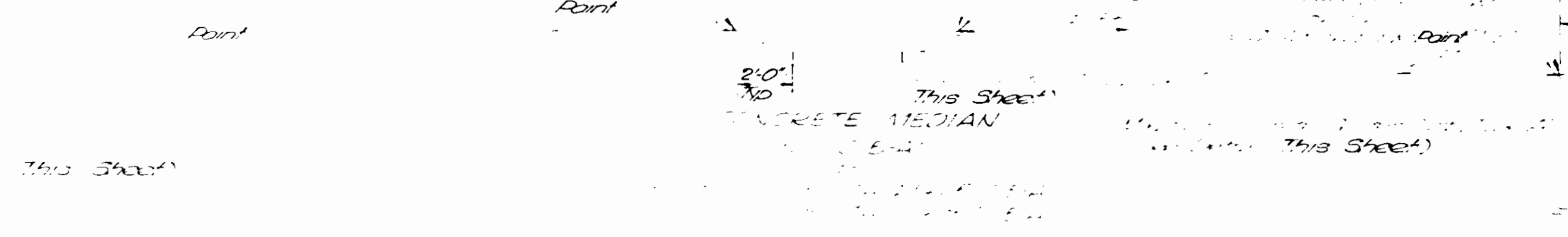
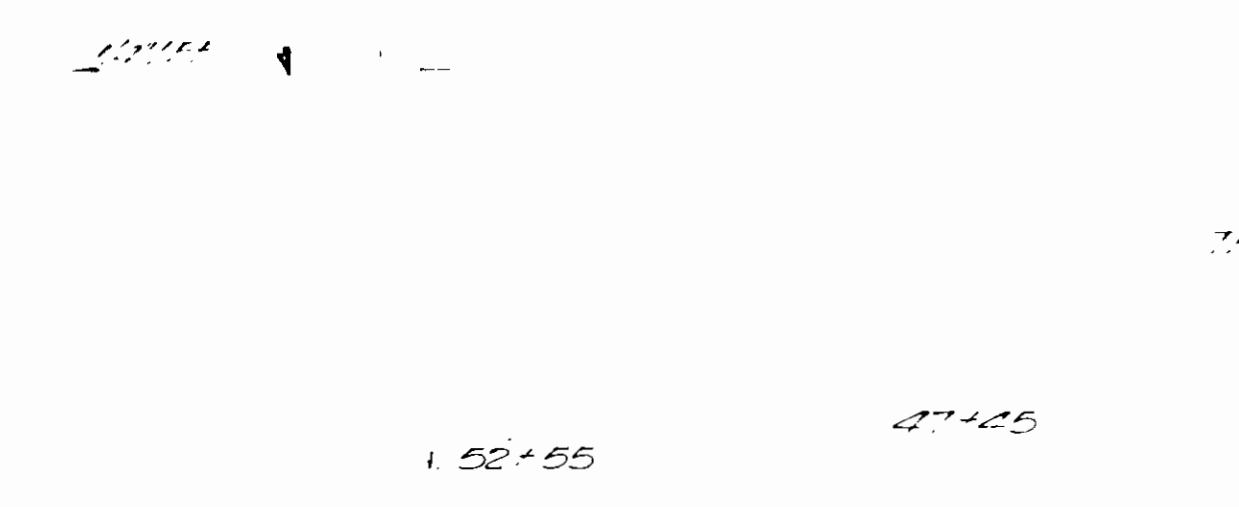


TYPICAL RAMP SECTION

"S-5-A" (WINCHESTER RD.)
 "SER" = 10+710 to 13+2257
 "NWR" = 9+884 to 11+3216

TYPICAL

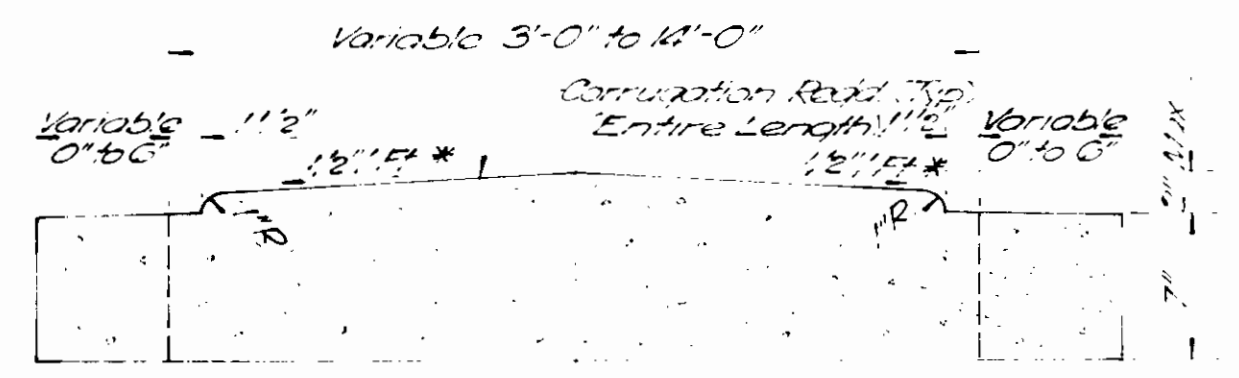
Point of Rotation for Super-elevation
 Grade As Shown on Profile



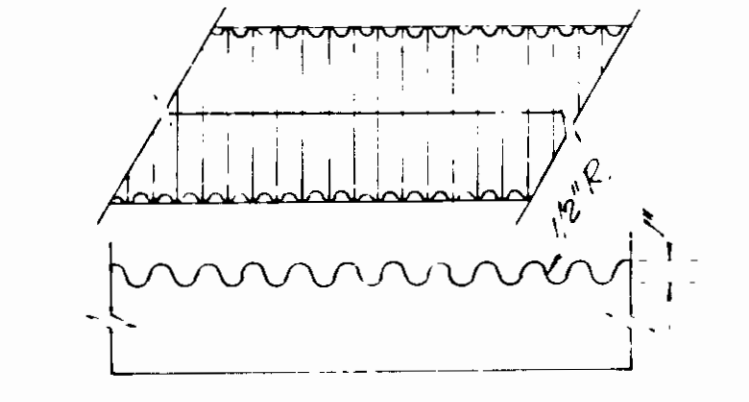
3'-0" Variable 0'-0" to 11'-0"

7'-0" 7'-0"

* For Width Greater than 4'-0"
 Slope Varies to Hold 2" Max Height

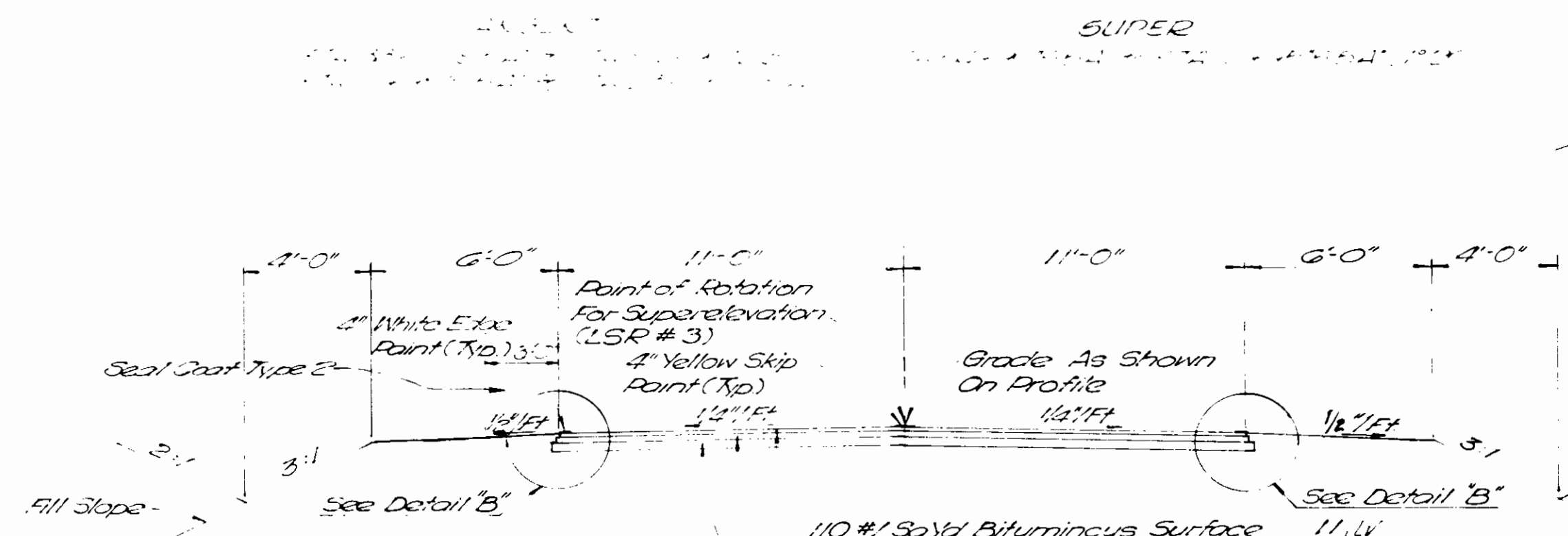


MODIFIED CONCRETE CENTER CURB TYPE "A"
 Scale: 1/2" = 1'-0"



TYPICAL CORRUGATION DETAIL
 No Scale

WINCHESTER ROAD



Note: For Super-elevation Line LSR No 3 See Sheet No 31

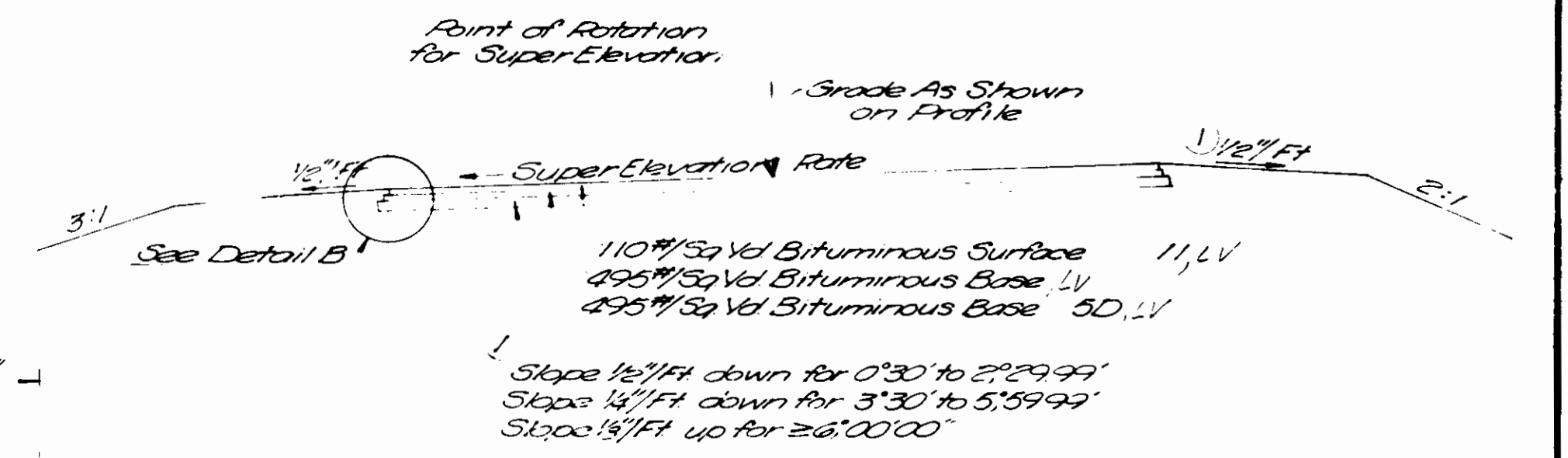
LOCAL SERVICE ROAD No 4

Scale: 1/4" = 1'-0"
 STA. 16+50.00 to STA. 21+52.36

LOCAL SERVICE ROAD No 3

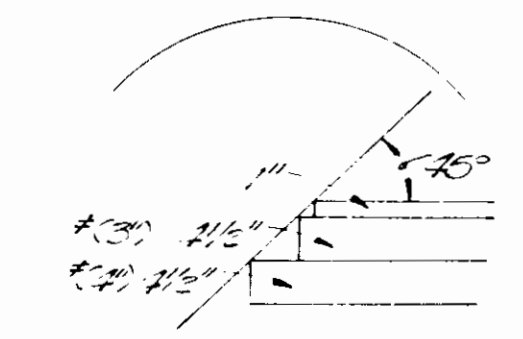
TANGENT
 STA. 93+75 to STA. 94+30
 STA. 104+25 to STA. 119+10
 STA. 128+85 to STA. 130+60

LOCAL SERVICE ROAD #3



LOCAL SERVICE ROAD #3
 Scale: 1/4" = 1'-0"

SUPER
 STA. 94+30 to STA. 104+25 (6'00")
 STA. 119+10 to STA. 128+85 (2'00")
 STA. 130+60 to STA. 145+95 (12'30")
 19'05'52"



DETAIL "B"
 Scale: 1/4" = 1'-0"

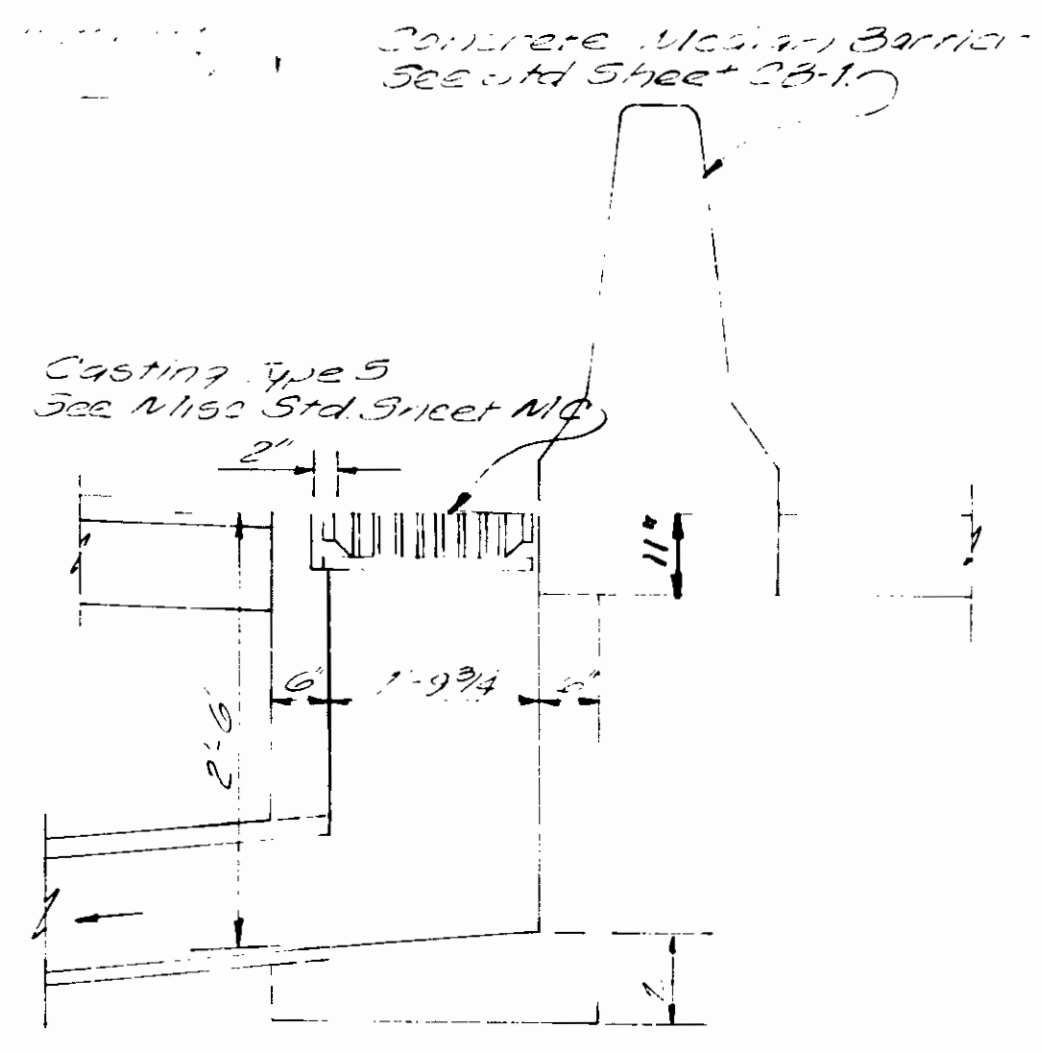
TYPICAL CROSS SECTION



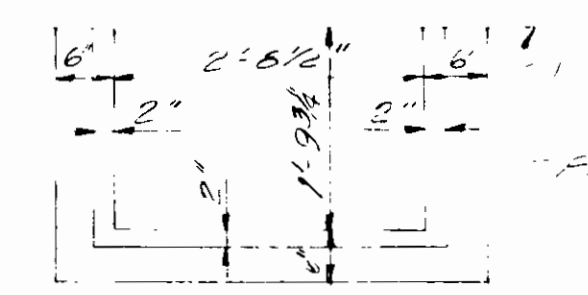
MAIN LINE SKEWED AND RANDOM SPACED JOINTS

SECTION A-A CORRUSATION DETAIL

TYPICAL CONCRETE SHOULDERS



MODIFIED INLET, TYPE "H-5"



PLAN VIEW

TYPICAL CROSS SECTIONS

LEGEND

- 1. 6" Min. Depth 18" Spacing
- 2. GROUP A 1/2" Dia.

LEGEND

- 1. Concrete Pavement II
- 2. Concrete for Shoulder (Type 1) Slab
- 3. Concrete for Shoulder (Type 2) Slab
- 4. Bituminous Pavement (Type 1) Slab
- 5. Bituminous Pavement (Type 2) Slab

TYPICAL UNDERDRAIN CONFIGURATION

No Scale

STANDARD RAMP ENTRANCE

Scale: 1"=50'

PARALLEL LANE EXIT

Scale: 1"=50'

END F PROJECT 170-1(16)
STA. 583 + 50.00 LINE "A"

SECTION 22 SECTION 23

SECTION 21

LAFOUNTAIN RESERVE

7

9

BEGIN F PROJECT 170-1(16)
STA. 450 + 00.00 LINE "A"

14

13

HUNTS RESERVE

SECTION 8 (cont.)

SECTION 8

INDEX	OWNER	ACREAGE	INDEX	OWNER	ACREAGE
1	Wind Public Service Co	4.60	1	Wynne, R. & Margaret L.	1.00
2	W. J. & M. J. & A. J. & M. J. & A. J. & M. J.	1.80	2	Wynne, R. & Margaret L.	1.00
3	Wynne, R. & Margaret L.	1.00	3	Wynne, R. & Margaret L.	1.00
4	Wynne, R. & Margaret L.	0.532	4	Wynne, R. & Margaret L.	1.00
5	Wynne, R. & Margaret L.	1.00	5	Wynne, R. & Margaret L.	1.00
6	Wynne, R. & Margaret L.	0.74	6	Wynne, R. & Margaret L.	1.00
7	Wynne, R. & Margaret L.	0.43	7	Wynne, R. & Margaret L.	1.00
8	Wynne, R. & Margaret L.	1.00	8	Wynne, R. & Margaret L.	1.00
9	Wynne, R. & Margaret L.	1.44	9	Wynne, R. & Margaret L.	1.00
10	Wynne, R. & Margaret L.	1.00	10	Wynne, R. & Margaret L.	1.00
11	Wynne, R. & Margaret L.	0.516	11	Wynne, R. & Margaret L.	1.00
12	Wynne, R. & Margaret L.	0.885	12	Wynne, R. & Margaret L.	1.00
13	Wynne, R. & Margaret L.	1.00	13	Wynne, R. & Margaret L.	1.00
14	Wynne, R. & Margaret L.	1.00	14	Wynne, R. & Margaret L.	1.00
15	Wynne, R. & Margaret L.	1.00	15	Wynne, R. & Margaret L.	1.00
16	Wynne, R. & Margaret L.	1.00	16	Wynne, R. & Margaret L.	1.00
17	Wynne, R. & Margaret L.	1.00	17	Wynne, R. & Margaret L.	1.00
18	Wynne, R. & Margaret L.	1.00	18	Wynne, R. & Margaret L.	1.00
19	Wynne, R. & Margaret L.	1.00	19	Wynne, R. & Margaret L.	1.00
20	Wynne, R. & Margaret L.	1.00	20	Wynne, R. & Margaret L.	1.00

ALLEN COUNTY
MARION TWP.

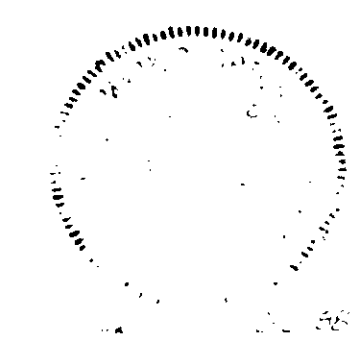
SECTION 13

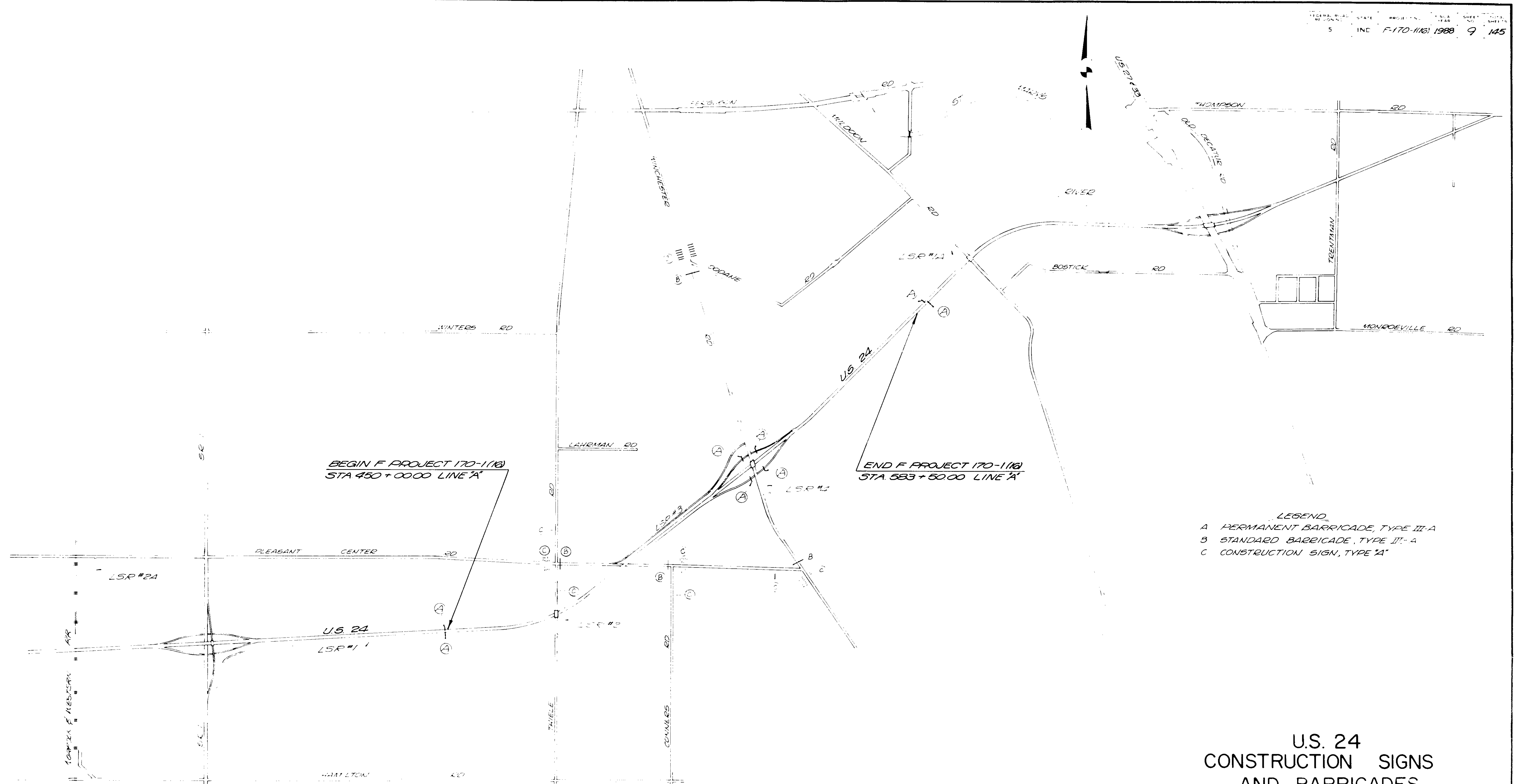
LAFOUNTAIN RESERVE

SECTION 9

ALLEN COUNTY
PLEASANT TWP.

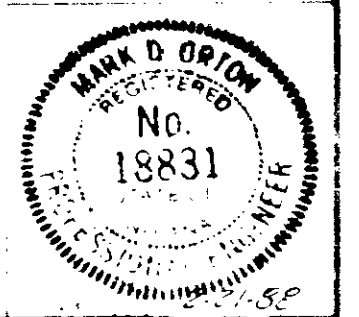
PLAT # 1
FOR DESIGN DEPT
S-18





LEGEND
 A PERMANENT BARRICADE, TYPE III-A
 B STANDARD BARRICADE, TYPE III-A
 C CONSTRUCTION SIGN, TYPE 'A'

U.S. 24
 CONSTRUCTION SIGNS
 AND BARRICADES
DETAILS



425+00

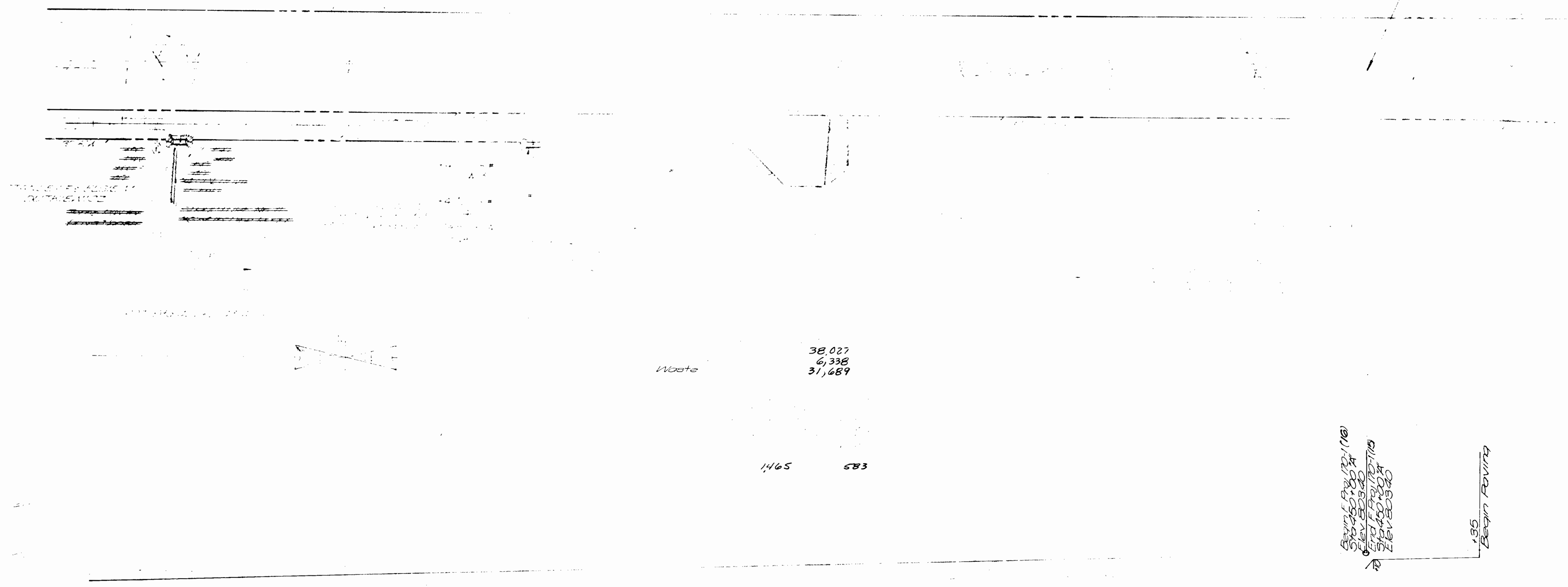
430+00

440+00

445+00

450+00

BEGIN F PROJ 170-1(16)
STA 450+00.00 LINE 'A'
END F PROJ 170-1(15)
STA 450+00.00 LINE 'A'



Waste
38,027
6,338
31,689

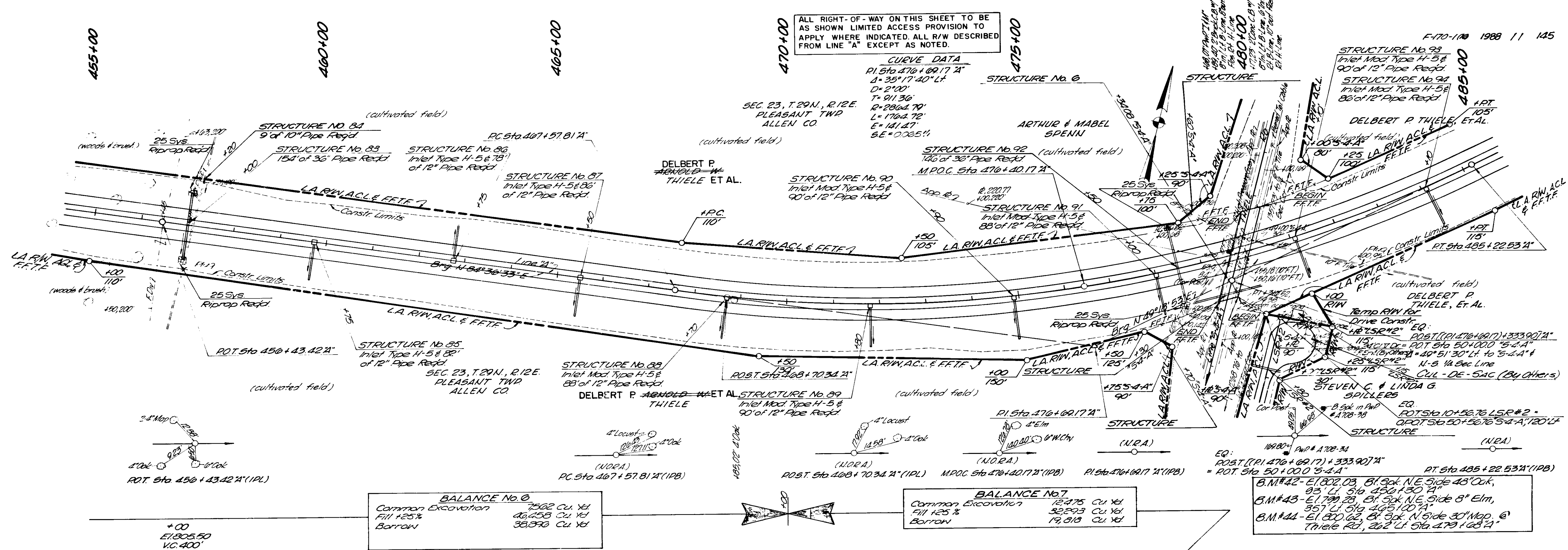
1465 583

BEGIN F PROJ 170-1(16)
STA 450+00.00
ELEV 803.40
END F PROJ 170-1(15)
STA 450+00.00
ELEV 803.40
135
Begin Point



ALL RIGHT-OF-WAY ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISION TO APPLY WHERE INDICATED. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

CURVE DATA
 PI Sta 476+69.17' A
 Δ = 35° 17' 40" Lt.
 D = 2100'
 T = 911.36'
 R = 2864.79'
 L = 1764.72'
 E = 141.47'
 SE = 0.065%
 (N.O.R.A.)



BALANCE No. 6

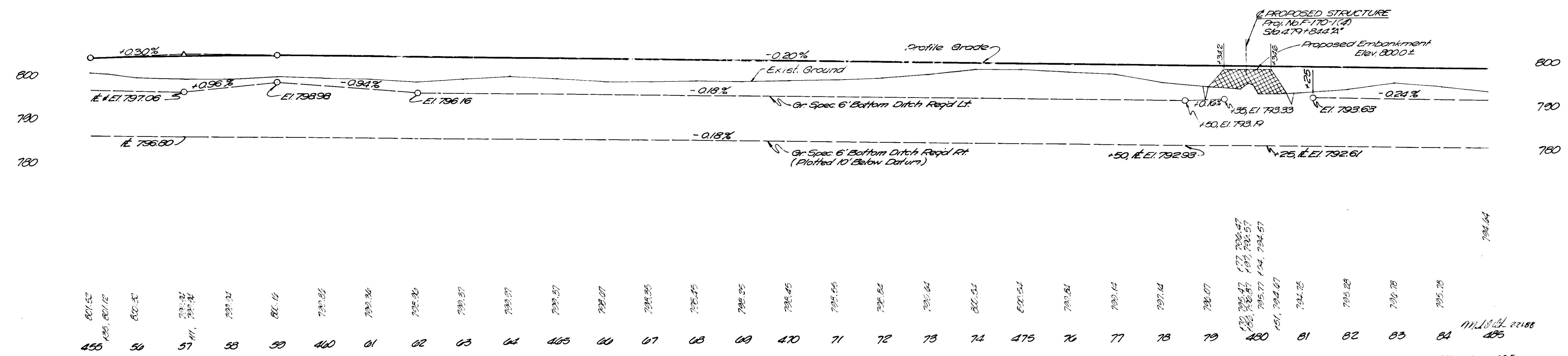
Common Excavation	7502 Cu Yd
Fill +25%	46,258 Cu Yd
Borrow	36,890 Cu Yd

BALANCE No. 7

Common Excavation	12,475 Cu Yd
Fill +25%	32,243 Cu Yd
Borrow	19,818 Cu Yd

B.M.#42 - El 802.03, 81.50' N.E. Side 48' Oak,
 93' Lt. Sta 450+30.71'
 B.M.#43 - El 797.28, 81.50' N.E. Side 8" Elm,
 85.7' Lt. Sta 455+100.71'
 B.M.#44 - El 800.02, 81.50' N. Side 30' Map. @
 Thiele Rd., 202' Lt. Sta 479+68.71'

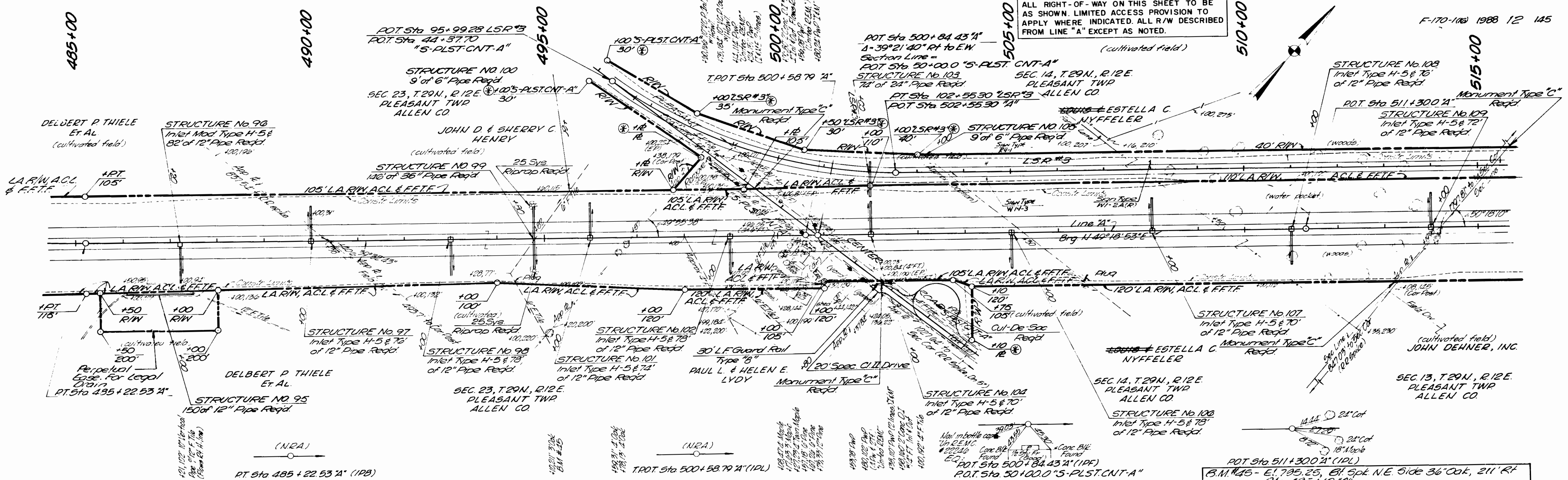
* 31,689 Cu Yds of Fill May Be Available If F-Prj 170-116 Is Let Before F-Prj 170-116a



455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

R/W Marker Read See Standard Sheet MA

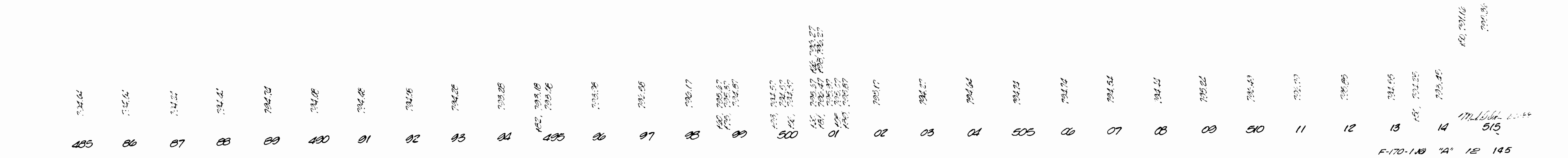
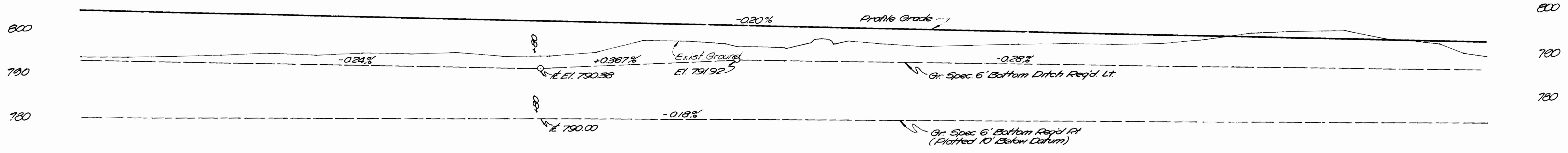
ALL RIGHT-OF-WAY ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISION TO APPLY WHERE INDICATED. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.



BALANCE NO. 8

Common Excavation	15,634	Cu. Yd.
Fill 125%	24,009	Cu. Yd.
Borrow	3,375	Cu. Yd.
The above balance includes the following		
Comm. Ex.	411	± 25%
LSR #3	662	49.68
Drive & Cur-de-Soc	10	50

POT Sta 511+300.21 (IDL)
 B.M. #45 - El. 795.25, Blk Spk. N.E. Side 36" Oak, 211' Rt
 Sta. 495+10.21"
 B.M. #46 - El. 794.55, Blk Spk. N. Side 12" Blk. Walnut,
 100' Rt. Sta. 503+100.21"
 B.M. #47 - El. 796.65, Blk Spk. S. Side 18" Oak, 134' Lt.
 Sta. 513+100.21"

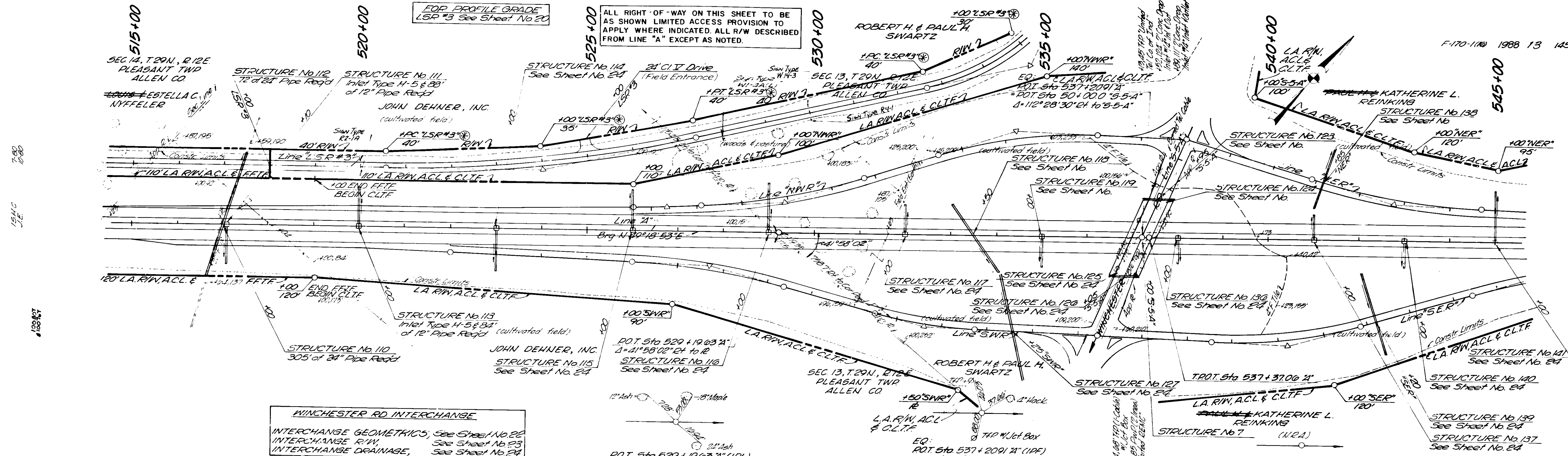


R/W Marker Read See Standard Sheet MA

FOP PROFILE GRADE
LSR #3 See Sheet No 20

ALL RIGHT-OF-WAY ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISION TO APPLY WHERE INDICATED. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

F-170-1100 1988 13 145



WINCHESTER RD INTERCHANGE
INTERCHANGE GEOMETRICS, See Sheet No 26
INTERCHANGE R/W, See Sheet No 23
INTERCHANGE DRAINAGE, See Sheet No 24

BALANCE No 9

Common Excavation	50,968	Cu Yd
Fill 125%	14,307	Cu Yd
Overhaul	30,001	Cu Yd
30,001 Cu Yd of the above overhaul to be used in balance #10		
Above balance does not include any quantities for excavation and backfilling of areas requiring "Special Subgrade Treatment"; however, "Special Subgrade Treatment" is estimated at 2,793 Cu Yd. The above balance includes the following:		
LSR #3	3,495	2,854
Comm. Ex.		15
Drive	0	

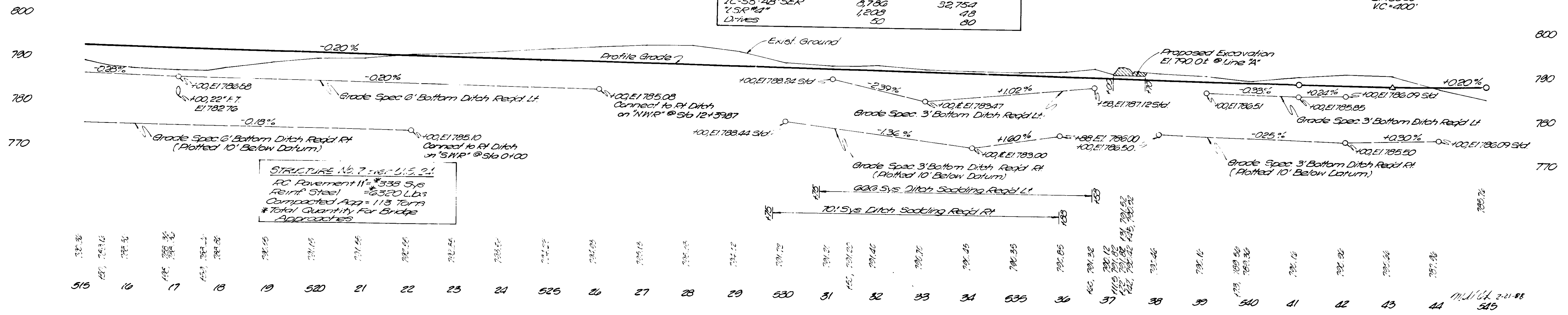
BALANCE No 10

Common Excavation	77,728	Cu Yd
Fill 15%	169,753	Cu Yd
Borrow	55,364	Cu Yd
30,001 Cu Yd. The above balance includes the following:		
5'-5'-A"	4,960	6,719
LSR #3	2,909	1,483
10'-55'-AA" NWR	10,900	22,179
10'-55'-AB" SWR	5,599	29,855
10'-55'-AA" SER	5,826	12,136
10'-55'-AB" SER	0,706	52,754
LSR #2	1,205	43
Drives	50	80

PROPOSED STRUCTURE
Sta 537+2091.1" (I.P.F.)
Proj No F-170(1)
Structure: 24-02-2074

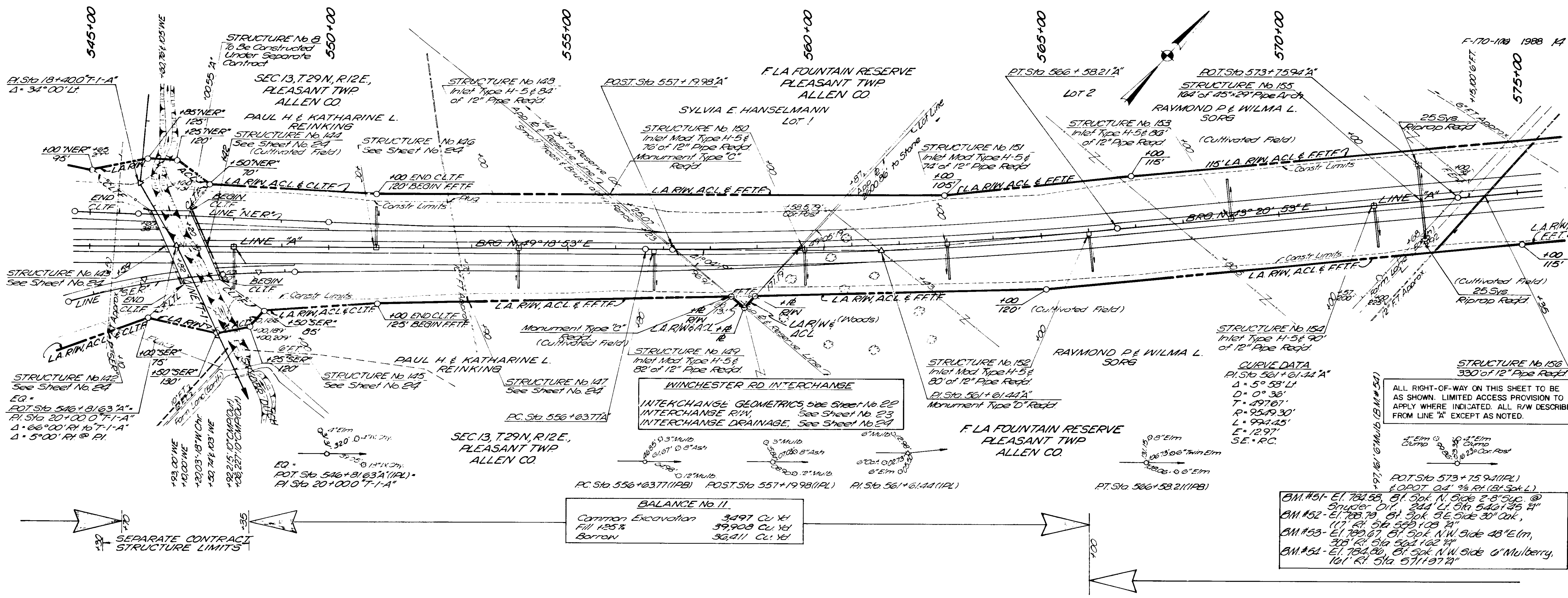
B.M.#47 - El. 790.05, 81 Spk 9 Side 18" Coll., 134' Lt
B.M.#48 - El. 795.70, 81 Spk 9 Side 30" Coll., 244' Lt
B.M.#49 - El. 793.53, 81 Spk 9 Side 18" Oak, 111' Lt
B.M.#50 - El. 792.45, 81 Spk 9 Side 30" Ash, 27' Lt
Sta 537+2091.1"
Sta 47170 "3-5-A"

15 HC
J. Kinney



STRUCTURE No. 7 over L.S. 21
RC Reinforcement 11" #338 5/8
Reinf Steel = 6350 Lbs
Compacted Agg = 113 Tons
* Total Quantity For Bridge Approaches

F-170-1100 'A' 13 145
4.1.1953



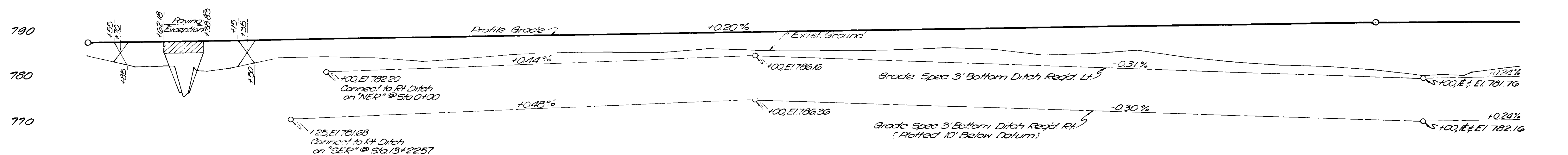
WINCHESTER RD INTERCHANGE
 INTERCHANGE GEOMETRICS, See Sheet No. 22
 INTERCHANGE R/W, See Sheet No. 23
 INTERCHANGE DRAINAGE, See Sheet No. 24

BALANCE No. 11

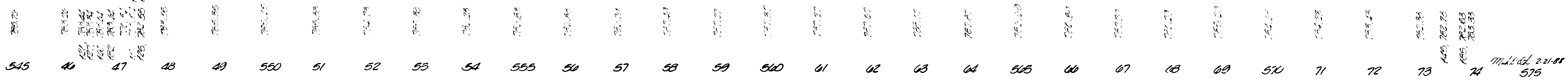
Common Excavation	3497 CU Yd
Fill 125%	39,908 CU Yd
Borrow	36,411 CU Yd

ALL RIGHT-OF-WAY ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISION TO APPLY WHERE INDICATED. ALL R/W DESCRIBED FROM LINE "A" EXCEPT AS NOTED.

BM #51 - El. 784.55, 51' Spk. N. Side 2-8" Syc. @ Snyder Cr. 244' Lt. Sta. 546+1.35 2"
 BM #52 - El. 788.79, 61' Spk. SE Side 30" Oak, (17' Rt. Sta. 546+1.03 2"
 BM #53 - El. 789.67, 51' Spk. N.W. Side 48" Elm, 308' Rt. Sta. 546+1.62 2"
 BM #54 - El. 784.80, 61' Spk. N.W. Side 6" Mulberry, 161' Rt. Sta. 571+97 2"



STRUCTURE No. 8 over SNYDER DITCH
 R.O. Payment - 11" = *1,294 Sps
 Reinf. Steel = *31,320 Lbs
 Compacted Agg = *431 Tons
 * Total Quantity For Bridge Approaches



16
17

5945+00

5970+00

5995+00

600+00

605+00

FLA FOUNTAIN RESERVE
MARION TWP
ALLEN CO

MARGUERITE C MEYERS

By Others
STRUCTURE No 108
E.S. 134 21 21 P.O.S. R-11
P.O.S. 203+31.52
R. 56 50 21 33 56 A

F-170-108 1988 15 145

STRUCTURE No 108
E.S. 134 21 21 P.O.S. R-11
P.O.S. 203+31.52
R. 56 50 21 33 56 A

125' 5-6" A
70' B

125' 5-6" A
70' B
LOUELLA
SEDELMAYER

LOUELLA PINACLE FETE

150'
100'

150'
100'

175' 5-6" A
70' E

175' 5-6" A
70' E
LOUELLA
SEDELMAYER

FLA FOUNTAIN RESERVE
MARION TWP
ALLEN CO

STRUCTURE No 9

ALL RIGHT OF WAY ON THIS SHEET TO BE
AS SHOWN LIMITED ACCESS PROVISION TO
APPLY WHERE INDICATED ALL R/W DESCRIBED
FROM LINE "A" EXCEPT AS NOTED

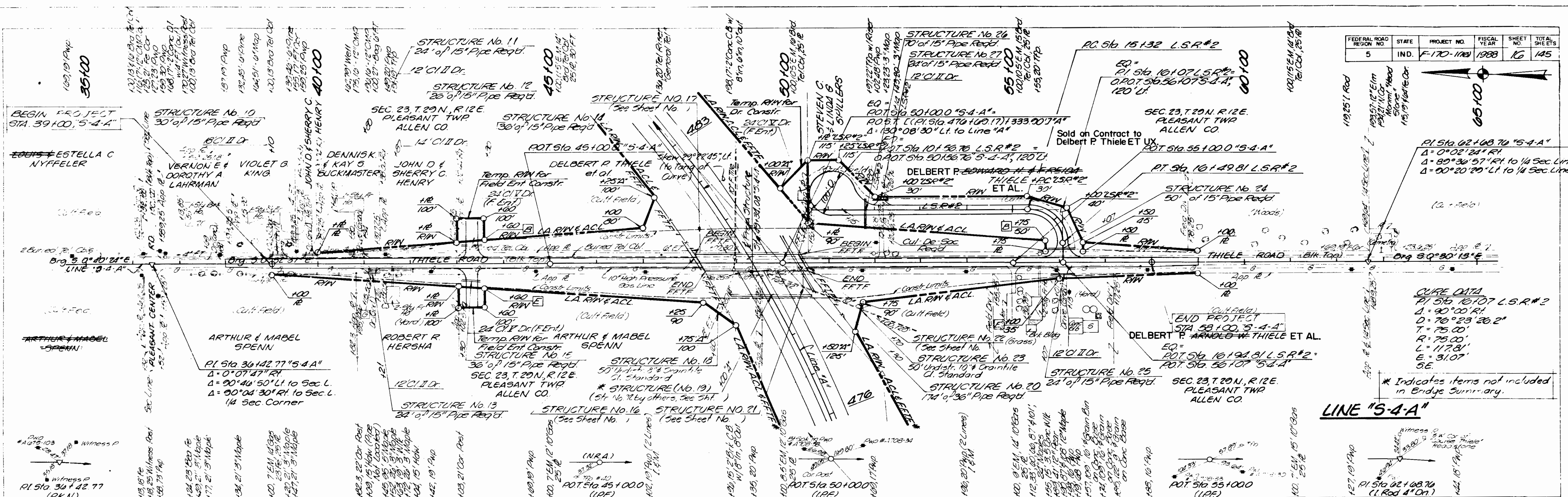
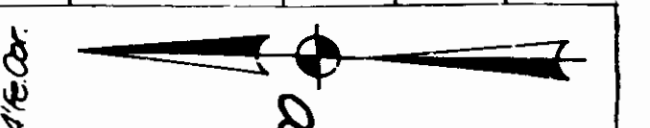
A: F 65-El 787.92, B: 30k SW Side 30' Elm,
233' L: 516 65-140 A'
B: 11-60-El 779.55, B: 30k NW Side 12' Elm,
216' L: 30 52 177
A: 11-67-El 781.20, B: 30k SW Side 1 1/2" PUP
#4052.22, 274' L: 516 603 78 A'

1950
52700
80,610

2910
37,137
34,222



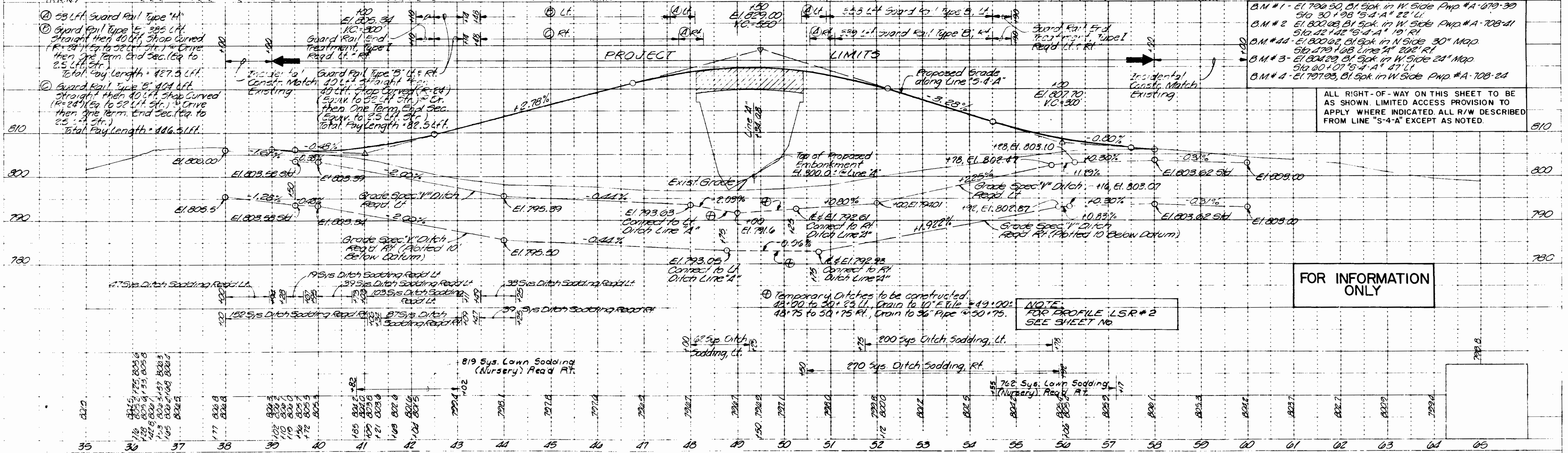
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-1168	1988	16	145



CURVE DATA
 P.I. STA. 10107 L.S.R.#2
 Δ = 90°00'00" R.I.
 D = 70°23'20.2"
 T = 75.00'
 R = 117.81'
 E = 31.07'
 S.E.

* Indicates items not included in Bridge Summary.

LINE "S-4-A"



FOR INFORMATION ONLY

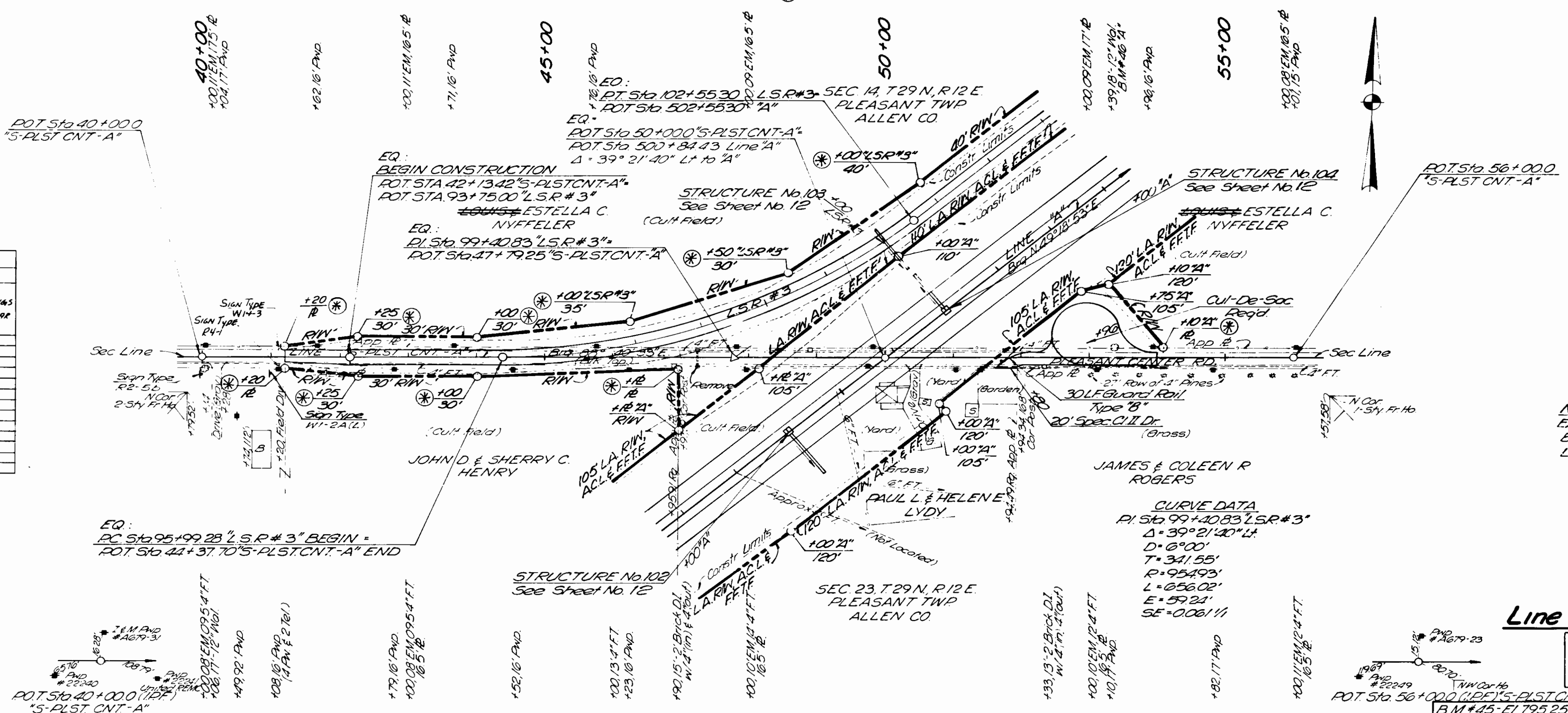
NOTE:
 FOR PROFILE L.S.R.#2
 SEE SHEET NO.

PLAN
 1/8" = 1' HORIZ.
 1/8" = 1' VERT.
 NOTE: BOOK PLUMBING INDICATED
 NO LABORATORY

PROFILE
 1/8" = 1' HORIZ.
 1/8" = 1' VERT.
 NOTE: BOOK PLUMBING INDICATED
 NO LABORATORY

PAVEMENT MARKINGS REQD. LINE LSR #3

STA. T. TA.	LT	RT
14175-14477.47	5.50	5.50
14177-14479.51	5.50	5.50
14179-14481.55	5.50	5.50
14181-14483.59	5.50	5.50
14183-14485.63	5.50	5.50
14185-14487.67	5.50	5.50
14187-14489.71	5.50	5.50
14189-14491.75	5.50	5.50
14191-14493.79	5.50	5.50
14193-14495.83	5.50	5.50
14195-14497.87	5.50	5.50
14197-14499.91	5.50	5.50
14199-14501.95	5.50	5.50
14201-14503.99	5.50	5.50
14203-14506.03	5.50	5.50
14205-14508.07	5.50	5.50
14207-14510.11	5.50	5.50
14209-14512.15	5.50	5.50
14211-14514.19	5.50	5.50
14213-14516.23	5.50	5.50
14215-14518.27	5.50	5.50
14217-14520.31	5.50	5.50
14219-14522.35	5.50	5.50
14221-14524.39	5.50	5.50
14223-14526.43	5.50	5.50
14225-14528.47	5.50	5.50
14227-14530.51	5.50	5.50
14229-14532.55	5.50	5.50
14231-14534.59	5.50	5.50
14233-14536.63	5.50	5.50
14235-14538.67	5.50	5.50
14237-14540.71	5.50	5.50
14239-14542.75	5.50	5.50
14241-14544.79	5.50	5.50
14243-14546.83	5.50	5.50
14245-14548.87	5.50	5.50
14247-14550.91	5.50	5.50
14249-14552.95	5.50	5.50
14251-14554.99	5.50	5.50
14253-14557.03	5.50	5.50
14255-14559.07	5.50	5.50
14257-14561.11	5.50	5.50
14259-14563.15	5.50	5.50
14261-14565.19	5.50	5.50
14263-14567.23	5.50	5.50
14265-14569.27	5.50	5.50
14267-14571.31	5.50	5.50
14269-14573.35	5.50	5.50
14271-14575.39	5.50	5.50
14273-14577.43	5.50	5.50
14275-14579.47	5.50	5.50
14277-14581.51	5.50	5.50
14279-14583.55	5.50	5.50
14281-14585.59	5.50	5.50
14283-14587.63	5.50	5.50
14285-14589.67	5.50	5.50
14287-14591.71	5.50	5.50
14289-14593.75	5.50	5.50
14291-14595.79	5.50	5.50
14293-14597.83	5.50	5.50
14295-14599.87	5.50	5.50
14297-14601.91	5.50	5.50
14299-14603.95	5.50	5.50
14301-14605.99	5.50	5.50
14303-14608.03	5.50	5.50
14305-14610.07	5.50	5.50
14307-14612.11	5.50	5.50
14309-14614.15	5.50	5.50
14311-14616.19	5.50	5.50
14313-14618.23	5.50	5.50
14315-14620.27	5.50	5.50
14317-14622.31	5.50	5.50
14319-14624.35	5.50	5.50
14321-14626.39	5.50	5.50
14323-14628.43	5.50	5.50
14325-14630.47	5.50	5.50
14327-14632.51	5.50	5.50
14329-14634.55	5.50	5.50
14331-14636.59	5.50	5.50
14333-14638.63	5.50	5.50
14335-14640.67	5.50	5.50
14337-14642.71	5.50	5.50
14339-14644.75	5.50	5.50
14341-14646.79	5.50	5.50
14343-14648.83	5.50	5.50
14345-14650.87	5.50	5.50
14347-14652.91	5.50	5.50
14349-14654.95	5.50	5.50
14351-14656.99	5.50	5.50
14353-14661.03	5.50	5.50
14355-14665.07	5.50	5.50
14357-14669.11	5.50	5.50
14359-14673.15	5.50	5.50
14361-14677.19	5.50	5.50
14363-14681.23	5.50	5.50
14365-14685.27	5.50	5.50
14367-14689.31	5.50	5.50
14369-14693.35	5.50	5.50
14371-14697.39	5.50	5.50
14373-14701.43	5.50	5.50
14375-14705.47	5.50	5.50
14377-14709.51	5.50	5.50
14379-14713.55	5.50	5.50
14381-14717.59	5.50	5.50
14383-14721.63	5.50	5.50
14385-14725.67	5.50	5.50
14387-14729.71	5.50	5.50
14389-14733.75	5.50	5.50
14391-14737.79	5.50	5.50
14393-14741.83	5.50	5.50
14395-14745.87	5.50	5.50
14397-14749.91	5.50	5.50
14399-14753.95	5.50	5.50
14401-14757.99	5.50	5.50
14403-14762.03	5.50	5.50
14405-14766.07	5.50	5.50
14407-14770.11	5.50	5.50
14409-14774.15	5.50	5.50
14411-14778.19	5.50	5.50
14413-14782.23	5.50	5.50
14415-14786.27	5.50	5.50
14417-14790.31	5.50	5.50
14419-14794.35	5.50	5.50
14421-14798.39	5.50	5.50
14423-14802.43	5.50	5.50
14425-14806.47	5.50	5.50
14427-14810.51	5.50	5.50
14429-14814.55	5.50	5.50
14431-14818.59	5.50	5.50
14433-14822.63	5.50	5.50
14435-14826.67	5.50	5.50
14437-14830.71	5.50	5.50
14439-14834.75	5.50	5.50
14441-14838.79	5.50	5.50
14443-14842.83	5.50	5.50
14445-14846.87	5.50	5.50
14447-14850.91	5.50	5.50
14449-14854.95	5.50	5.50
14451-14858.99	5.50	5.50
14453-14863.03	5.50	5.50
14455-14867.07	5.50	5.50
14457-14871.11	5.50	5.50
14459-14875.15	5.50	5.50
14461-14879.19	5.50	5.50
14463-14883.23	5.50	5.50
14465-14887.27	5.50	5.50
14467-14891.31	5.50	5.50
14469-14895.35	5.50	5.50
14471-14899.39	5.50	5.50
14473-14903.43	5.50	5.50
14475-14907.47	5.50	5.50
14477-14911.51	5.50	5.50
14479-14915.55	5.50	5.50
14481-14919.59	5.50	5.50
14483-14923.63	5.50	5.50
14485-14927.67	5.50	5.50
14487-14931.71	5.50	5.50
14489-14935.75	5.50	5.50
14491-14939.79	5.50	5.50
14493-14943.83	5.50	5.50
14495-14947.87	5.50	5.50
14497-14951.91	5.50	5.50
14499-14955.95	5.50	5.50
14501-14960.00	5.50	5.50



CURVE DATA
 PI STA 99+40.83 LSR #3
 $\Delta = 39^\circ 21' 40''$
 $D = 6^\circ 00'$
 $T = 341.55'$
 $R = 954.93'$
 $L = 656.02'$
 $E = 59.24'$
 $SE = 0.06111$

Line "S-PLST.CNT-A"

ALL RIGHT-OF-WAY ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISION TO APPLY WHERE INDICATED. ALL R/W DESCRIBED FROM LINE "S-PLST.CNT-A" EXCEPT AS NOTED.

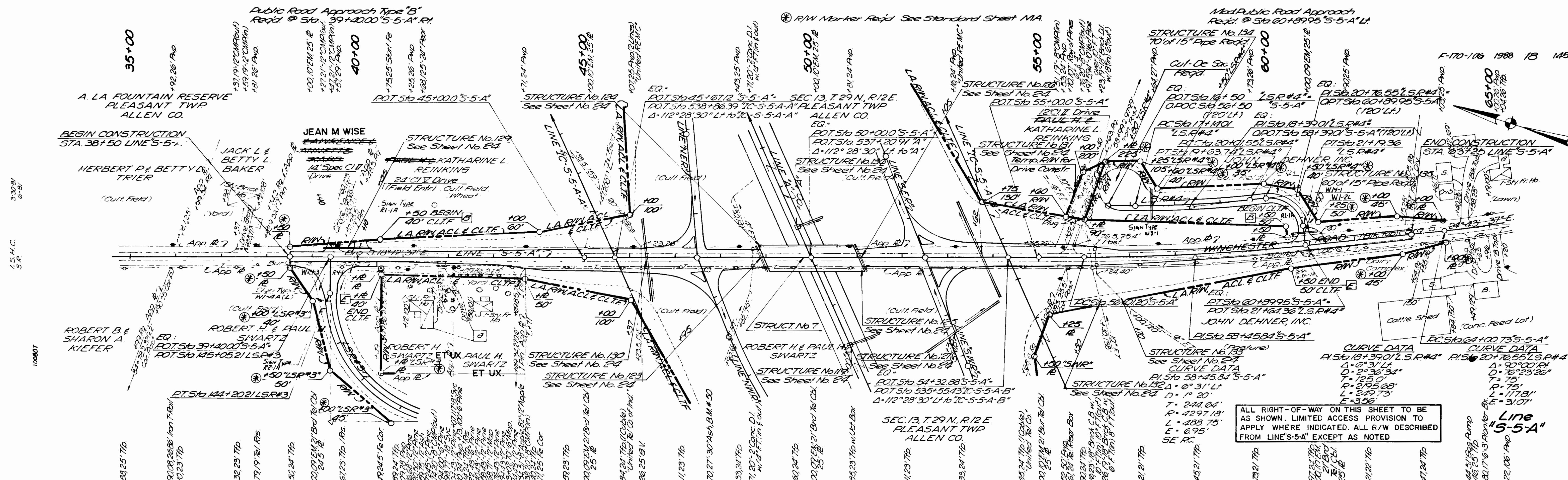
B.M #45 - E.T. 795.25, Bl. Spk. NE Side, 36" Oak
 Sta. 49.5+10 Line "A" 211' RT
 B.M #1 - E.T. 801.90, Bl. Spk. in Pwd #AG79-31
 Sta. 40+04 "S-PLST.CNT-A" 16' LT

NOTE:
 FOR PROFILE LSR #3
 SEE SHEET No. 20

3-88-81
 6-81
 L.S.R.
 5 R
 100801 L

800
 790

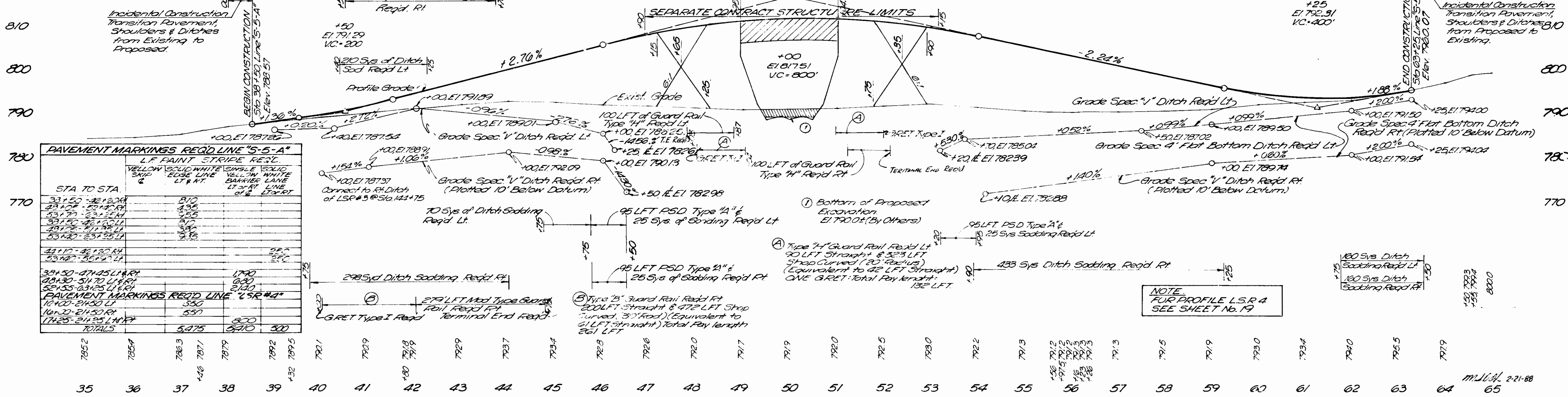
801.4	799.8	798.0	796.8	796.1	795.8	795.6	795.6	795.4	795.7	796.5	796.3	795.6	796.5	796.4	796.8	797.3
40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56



WINCHESTER RD INTERCHANGE
 INTERCHANGE GEOMETRICS, See Sheet No. 22
 INTERCHANGE R/W, See Sheet No. 23
 INTERCHANGE DRAINAGE, See Sheet No. 24

ALL RIGHT-OF-WAY ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISION TO APPLY WHERE INDICATED. ALL R/W DESCRIBED FROM LINE 'S-5-A' EXCEPT AS NOTED

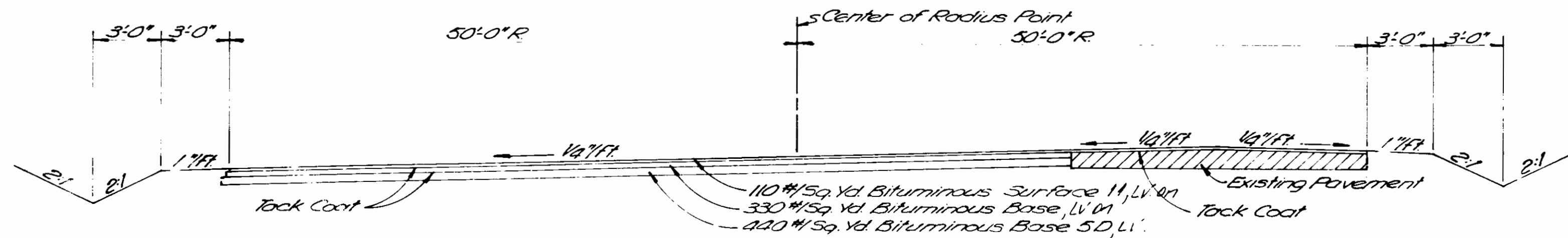
B.M. # 50 - E1 792.43, Bl. Spk. S.W. Side 30" Ash Sta 47+70 'S-5-A' 27' RT
 B.M. # 2 - E1 792.02, Bl. Spk. S.E. Side United Telephone Pole, Sta 59+73 'S-5-A' 21' RT



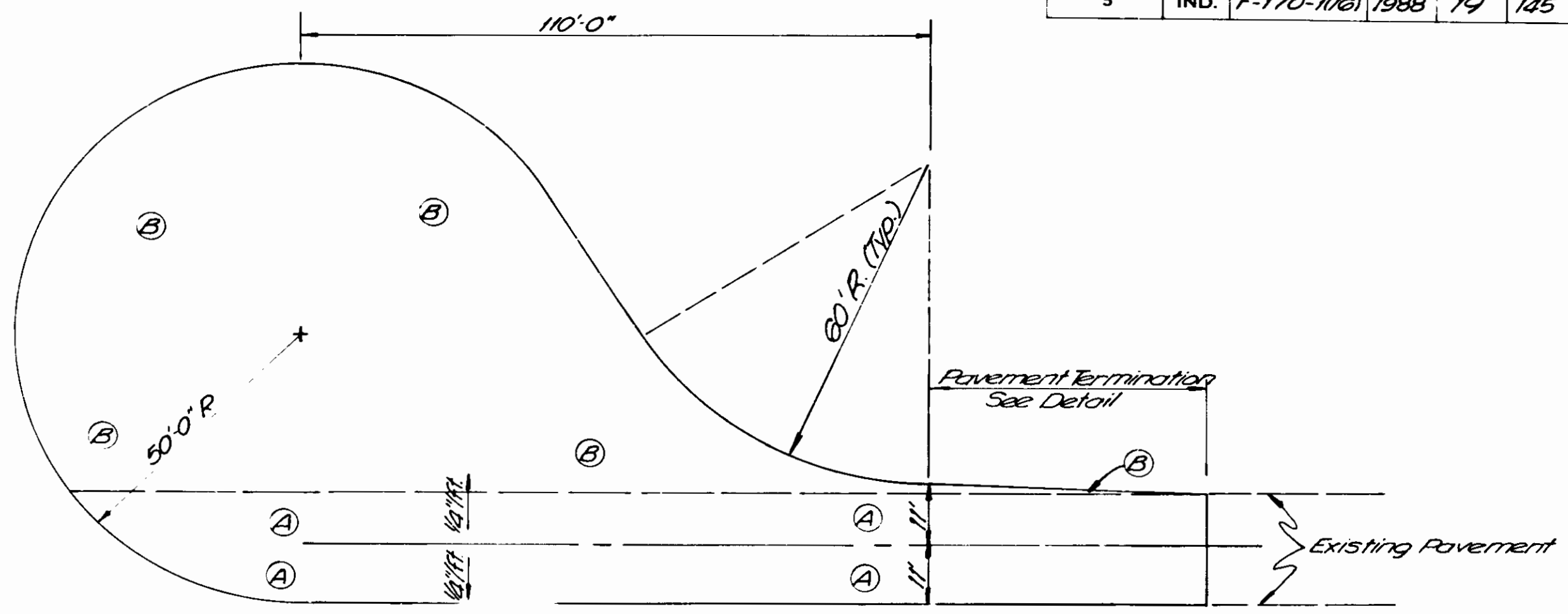
PAVEMENT MARKINGS REQD LINE 'S-5-A'		
STA TO STA	LF PAINT STRIPE REQD	YELLOW SOLID WHITE SINGLE SKIP EDGE LINE LT & RT
33+50 - 34+20	810	
34+20 - 35+00	435	
35+00 - 35+70	315	
35+70 - 36+40	315	
36+40 - 37+10	315	
37+10 - 37+80	315	
37+80 - 38+50	315	
38+50 - 39+20	315	
39+20 - 40+00	315	
40+00 - 40+70	315	
40+70 - 41+40	315	
41+40 - 42+10	315	
42+10 - 42+80	315	
42+80 - 43+50	315	
43+50 - 44+20	315	
44+20 - 44+90	315	
44+90 - 45+60	315	
45+60 - 46+30	315	
46+30 - 47+00	315	
47+00 - 47+70	315	
47+70 - 48+40	315	
48+40 - 49+10	315	
49+10 - 49+80	315	
49+80 - 50+50	315	
50+50 - 51+20	315	
51+20 - 51+90	315	
51+90 - 52+60	315	
52+60 - 53+30	315	
53+30 - 54+00	315	
54+00 - 54+70	315	
54+70 - 55+40	315	
55+40 - 56+10	315	
56+10 - 56+80	315	
56+80 - 57+50	315	
57+50 - 58+20	315	
58+20 - 58+90	315	
58+90 - 59+60	315	
59+60 - 60+30	315	
60+30 - 61+00	315	
61+00 - 61+70	315	
61+70 - 62+40	315	
62+40 - 63+10	315	
63+10 - 63+80	315	
63+80 - 64+50	315	
64+50 - 65+20	315	
65+20 - 65+90	315	
TOTALS	5,475	5,410

NOTE: FOR PROFILE L.S.R. 4 SEE SHEET NO. 19

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	IND.	F-170-116	1988	19	145



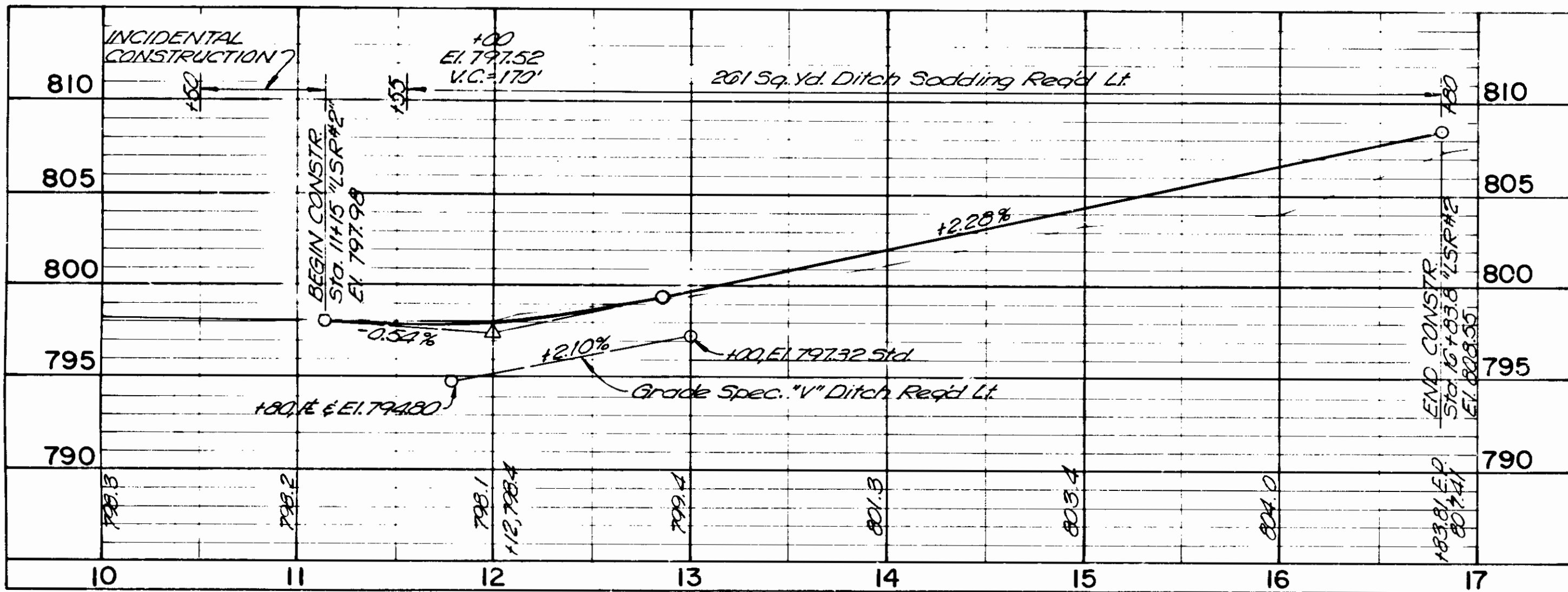
TYPICAL CUL-DE-SAC SECTION
SCALE: NONE



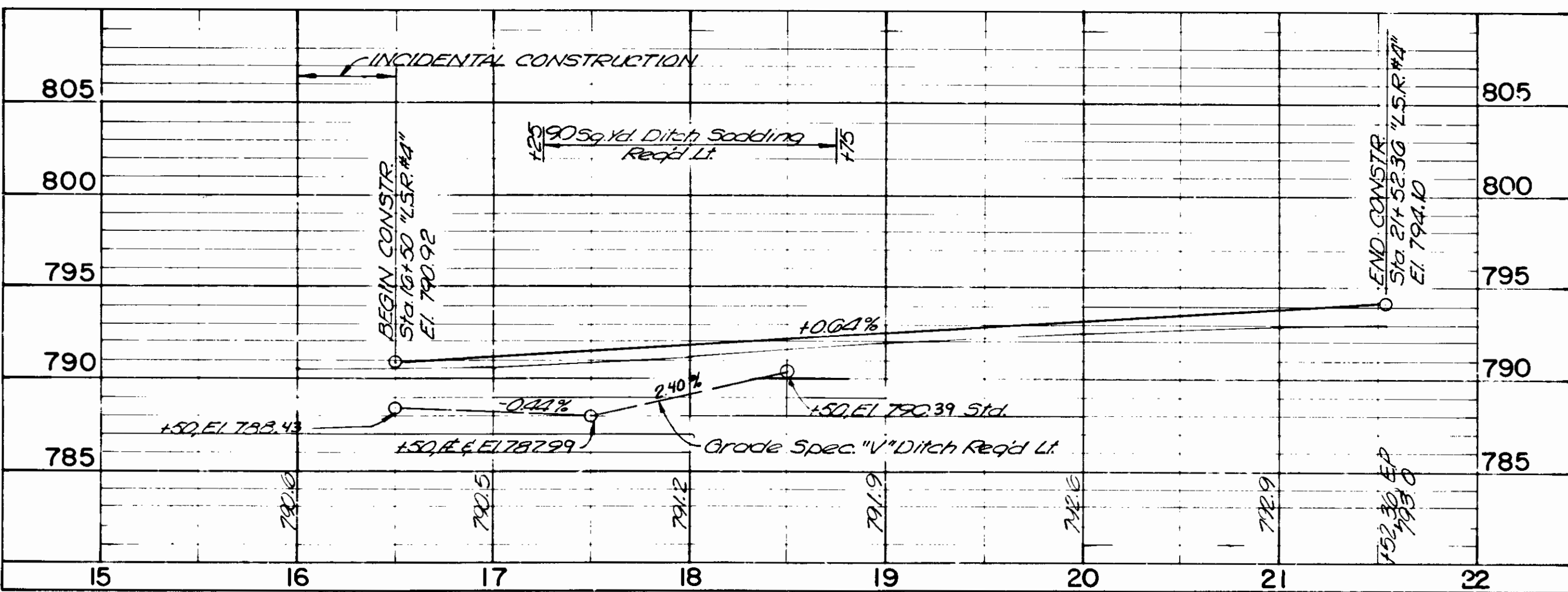
TYPICAL CUL-DE-SAC
SCALE: 1" = 20'

- Ⓐ 110 #/Sq. Yd. Bituminous Surface 11, LV
- Ⓑ 110 #/Sq. Yd. Bituminous Surface 11, LV on 330 #/Sq. Yd. Bituminous Base 1V on 440 #/Sq. Yd. Bituminous Base 5D, LV.

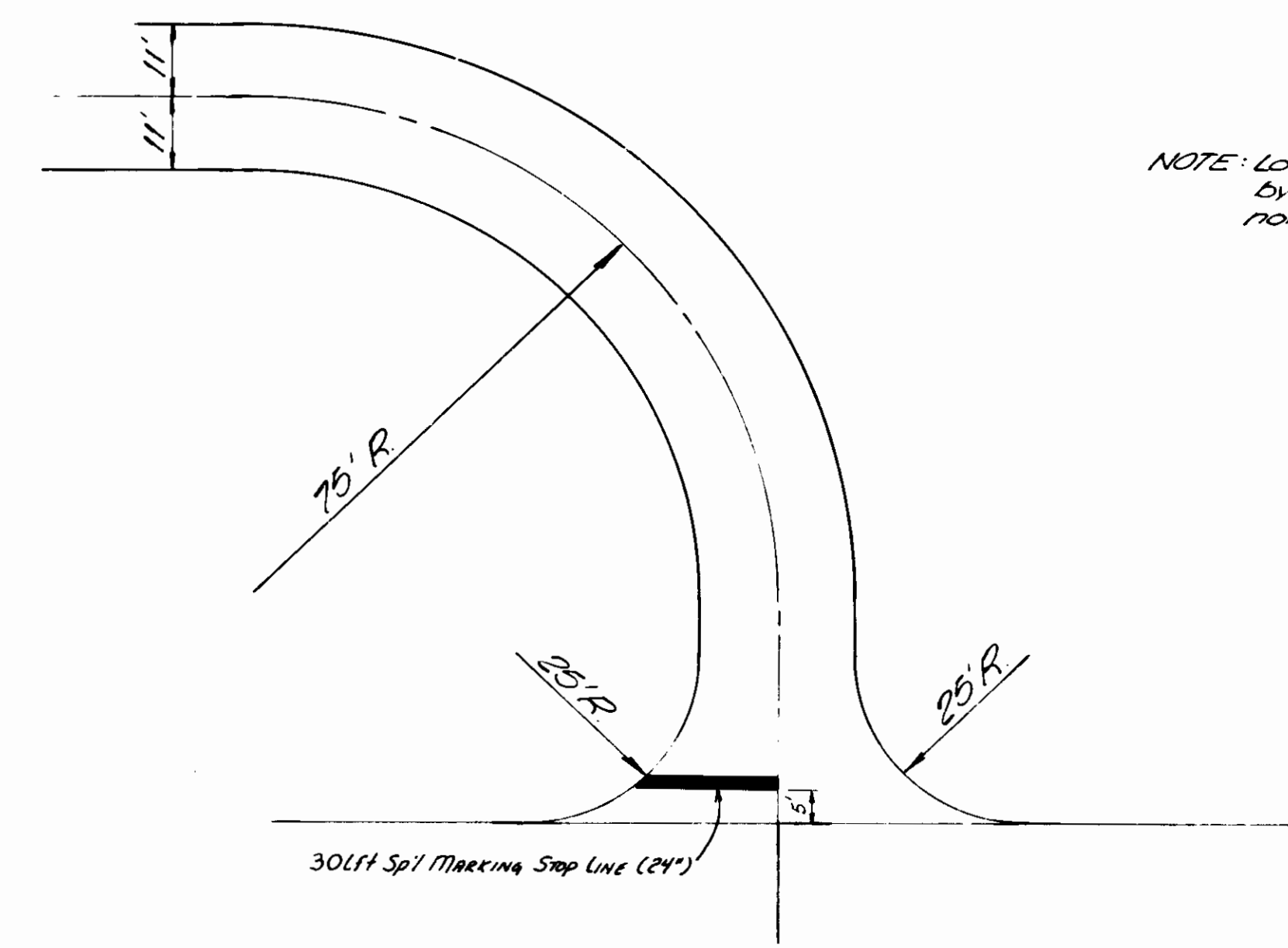
NOTE: Location of Cul-De-Sac Indicated by center of radius point as noted on Plan and Profile sheets.



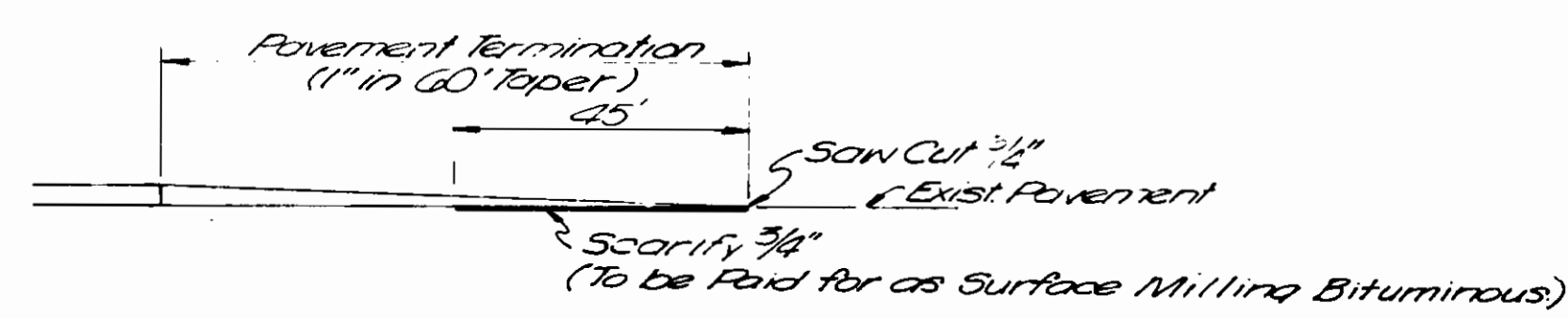
LOCAL SERVICE ROAD NO. 2
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'
(BY OTHERS)



LOCAL SERVICE ROAD NO. 4
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



L.S.R.#2 and L.S.R.#4 APPROACH
SCALE: 1" = 20'



PAVEMENT TERMINATION DETAIL
SCALE: NONE

DETAILS
As Shown

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
F-170-116		19	145

221-88

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND	F-170-1161	1988	20	145

90

95

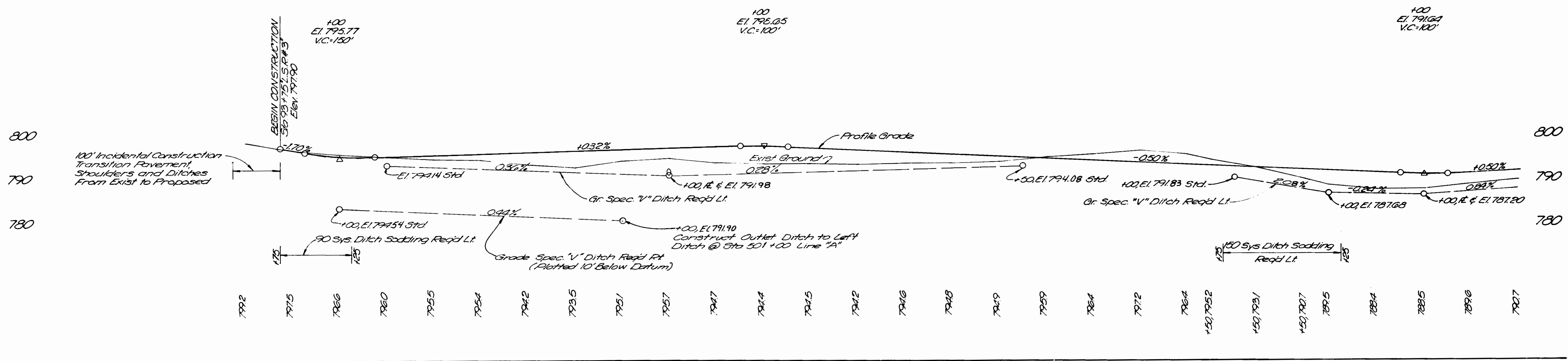
100

105

110

115

120



120

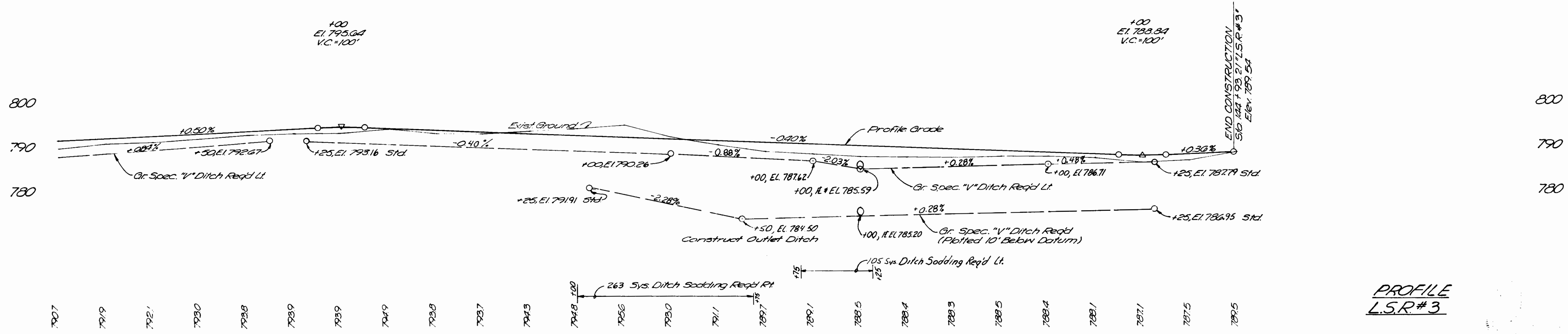
125

130

135

140

145



PROFILE
L.S.R.#3

PROJECT NO.	L.M.E.	SHEET NO.	TOTAL SHEETS	FILE
F-170-1161		20	145	

m.l.l. 2-21-88

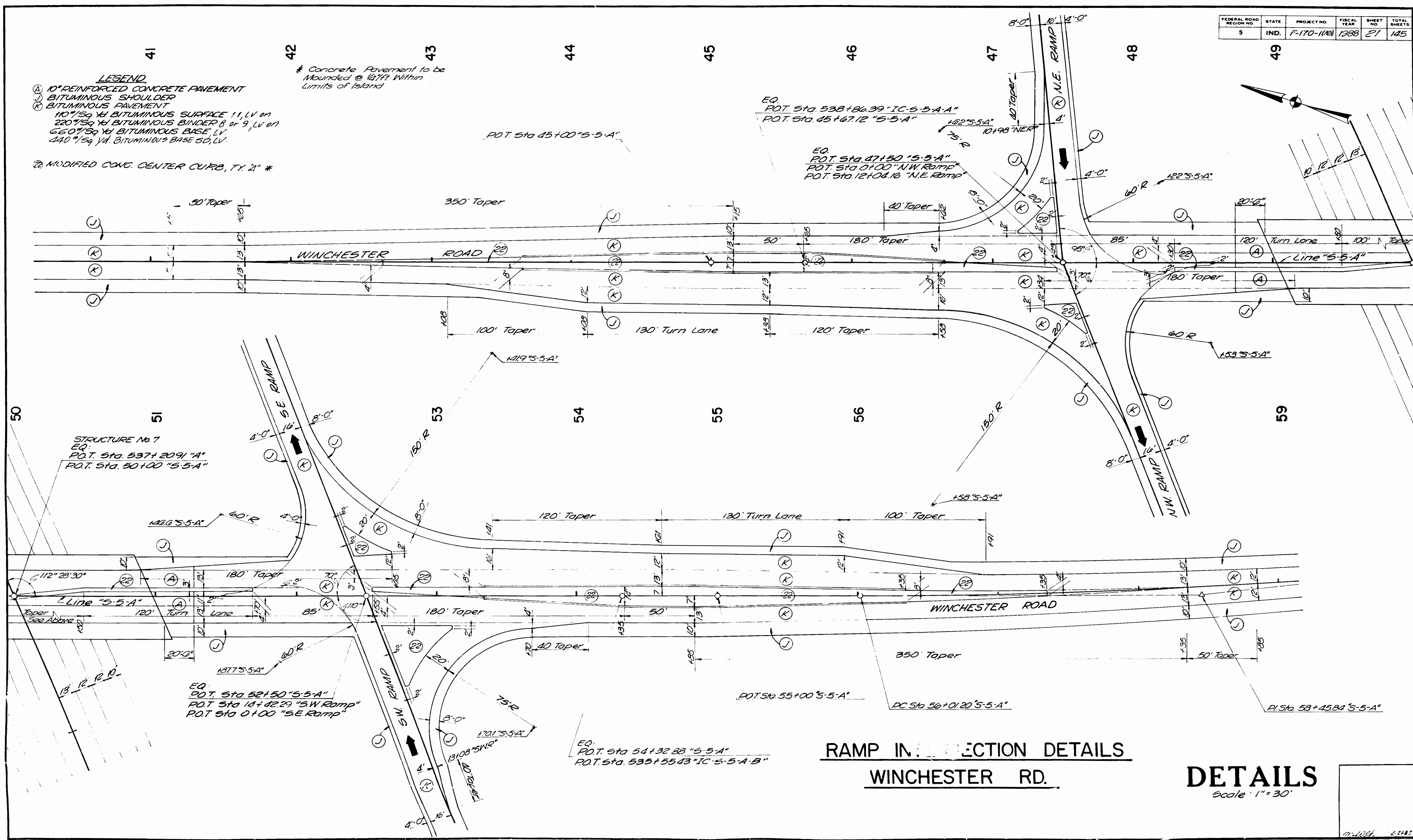
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-100	1988	21	145

LEGEND

- (A) 10" REINFORCED CONCRETE PAVEMENT
- (J) BITUMINOUS SHOULDER
- (K) BITUMINOUS PAVEMENT
- 110' Sq Yd BITUMINOUS SURFACE 11, LV ON
- 220' Sq Yd BITUMINOUS BINDER 8 or 9, LV ON
- 660' Sq Yd BITUMINOUS BASE LV
- 440' Sq Yd BITUMINOUS BASE 50, LV

20 MODIFIED CONC. CENTER CURB, T.Y. 2" *

* Concrete Pavement to be Mounded @ 1/4" Within Limits of Island



RAMP INTERSECTION DETAILS
WINCHESTER RD.

DETAILS
Scale: 1" = 30'

PROJECT NO.	DATE	SHEET NO.	TOTAL SHEETS
F-170-100	5/81	21	145

545

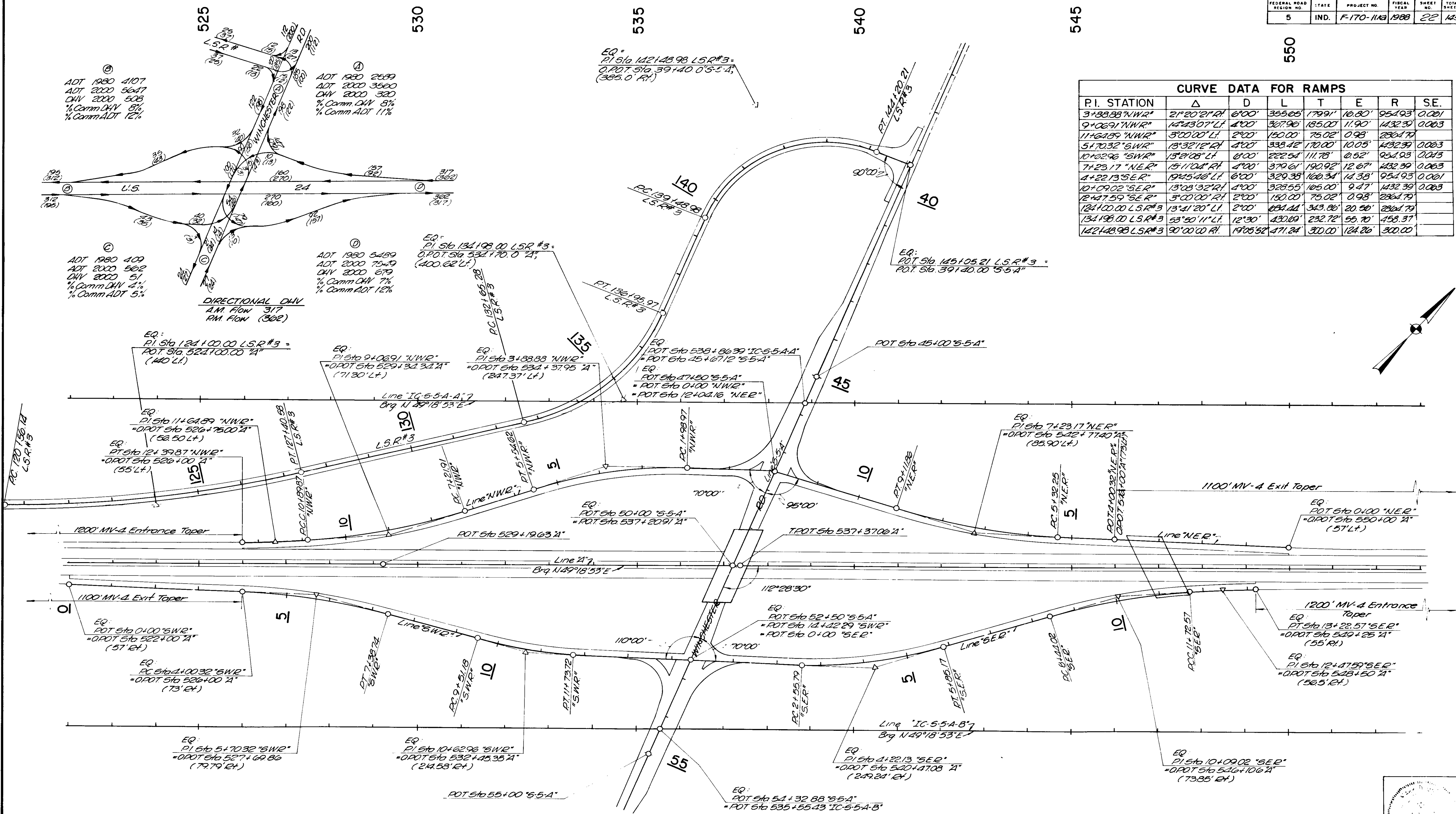
540

535

530

525

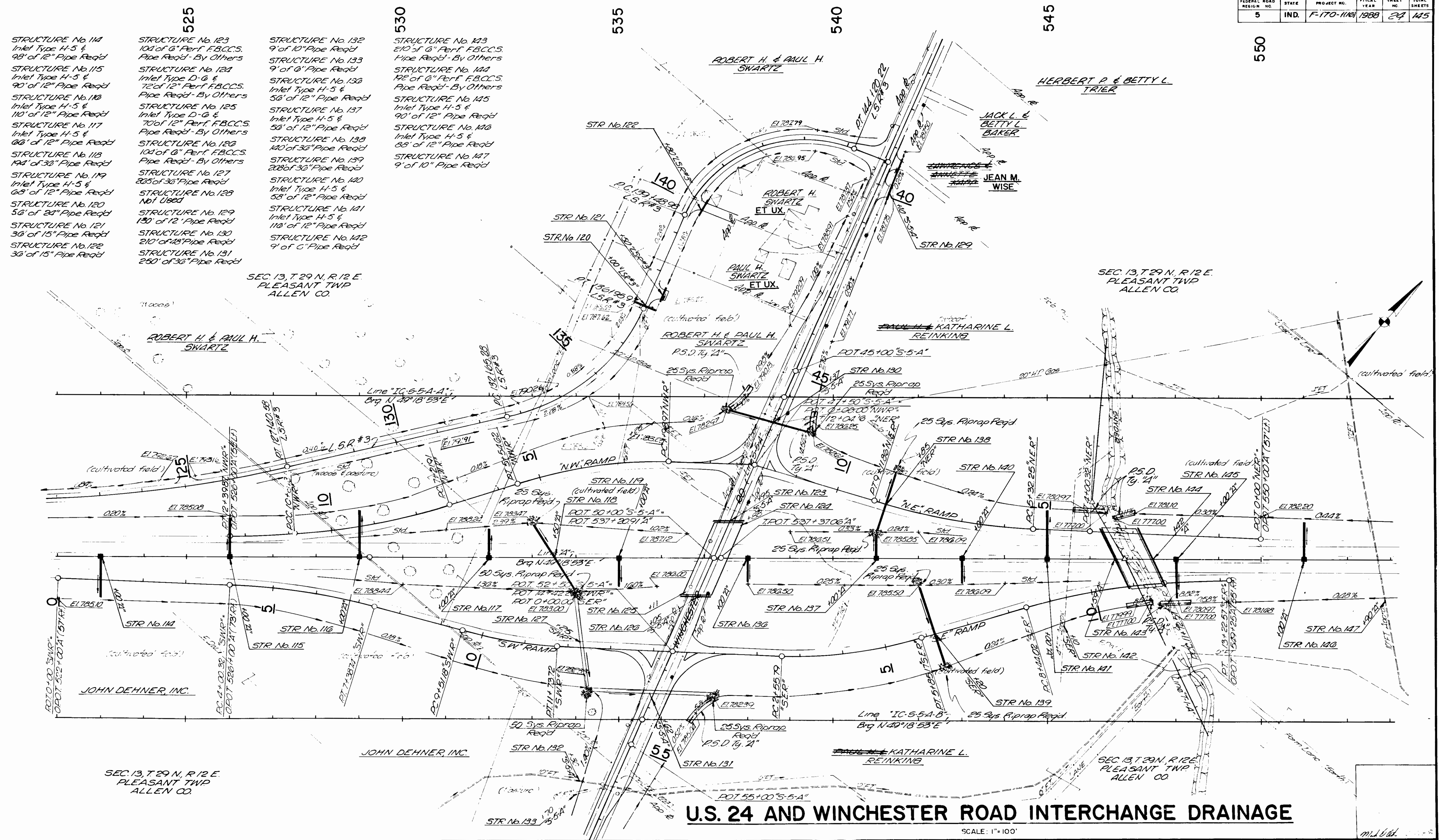
CURVE DATA FOR RAMPS							
P.I. STATION	Δ	D	L	T	E	R	SE.
3+88.88 "NWR"	21°20'21"R	6'00'	355.05	179.91	16.80	954.93	0.001
9+06.91 "NWR"	14°23'07"LT	4'00'	307.96	135.00	11.90	1432.39	0.003
11+64.59 "NWR"	3°00'00"LT	2'00'	150.00	75.02	0.98	2864.79	
5+70.32 "SWR"	13°32'12"RT	4'00'	338.42	170.00	10.05	1432.39	0.003
10+62.96 "SWR"	13°21'08"LT	6'00'	222.54	111.78	0.52	954.93	0.013
7+23.17 "NER"	15°11'04"RT	4'00'	379.61	190.92	12.67	1432.39	0.003
4+22.13 "SER"	19°45'46"LT	6'00'	329.38	166.34	14.38	954.93	0.001
10+09.02 "SER"	13°03'32"RT	4'00'	328.55	165.00	9.47	1432.39	0.003
12+47.59 "SER"	3°00'00"RT	2'00'	150.00	75.02	0.98	2864.79	
124+00.00 LSR#3	13°41'20"LT	2'00'	634.44	343.86	20.50	2864.79	
134+196.00 LSR#3	53°30'11"LT	12'30"	430.69	232.72	55.70	458.37	
142+148.98 LSR#3	30°00'00"RT	19'05'52"	471.24	300.00	124.26	300.00	



U.S. 24 AND WINCHESTER ROAD INTERCHANGE GEOMETRICS

SCALE: 1"=100'

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-116	1988	24	145



- 525**
- STRUCTURE No. 114
Inlet Type H-5 &
98' of 12" Pipe Reqd
 - STRUCTURE No. 115
Inlet Type H-5 &
90' of 12" Pipe Reqd
 - STRUCTURE No. 116
Inlet Type H-5 &
110' of 12" Pipe Reqd
 - STRUCTURE No. 117
Inlet Type H-5 &
60' of 12" Pipe Reqd
 - STRUCTURE No. 118
Inlet Type H-5 &
144' of 36" Pipe Reqd
 - STRUCTURE No. 119
Inlet Type H-5 &
68' of 12" Pipe Reqd
 - STRUCTURE No. 120
56' of 24" Pipe Reqd
 - STRUCTURE No. 121
36' of 15" Pipe Reqd
 - STRUCTURE No. 122
36' of 15" Pipe Reqd
- 530**
- STRUCTURE No. 123
104' of 6" Perf. FBCCS
Pipe Reqd - By Others
 - STRUCTURE No. 124
Inlet Type D-G &
72' of 12" Perf. FBCCS
Pipe Reqd - By Others
 - STRUCTURE No. 125
Inlet Type D-G &
70' of 12" Perf. FBCCS
Pipe Reqd - By Others
 - STRUCTURE No. 126
104' of 6" Perf. FBCCS
Pipe Reqd - By Others
 - STRUCTURE No. 127
205' of 36" Pipe Reqd
 - STRUCTURE No. 128
Not Used
 - STRUCTURE No. 129
130' of 12" Pipe Reqd
 - STRUCTURE No. 130
210' of 18" Pipe Reqd
 - STRUCTURE No. 131
260' of 36" Pipe Reqd
- 535**
- STRUCTURE No. 132
9' of 10" Pipe Reqd
 - STRUCTURE No. 133
9' of 6" Pipe Reqd
 - STRUCTURE No. 134
Inlet Type H-5 &
58' of 12" Pipe Reqd
 - STRUCTURE No. 137
Inlet Type H-5 &
58' of 12" Pipe Reqd
 - STRUCTURE No. 138
140' of 36" Pipe Reqd
 - STRUCTURE No. 139
208' of 36" Pipe Reqd
 - STRUCTURE No. 140
Inlet Type H-5 &
58' of 12" Pipe Reqd
 - STRUCTURE No. 141
Inlet Type H-5 &
118' of 12" Pipe Reqd
 - STRUCTURE No. 142
9' of 6" Pipe Reqd
- 540**
- STRUCTURE No. 143
210' of 6" Perf. FBCCS
Pipe Reqd - By Others
 - STRUCTURE No. 144
192' of 6" Perf. FBCCS
Pipe Reqd - By Others
 - STRUCTURE No. 145
Inlet Type H-5 &
90' of 12" Pipe Reqd
 - STRUCTURE No. 146
Inlet Type H-5 &
85' of 12" Pipe Reqd
 - STRUCTURE No. 147
9' of 10" Pipe Reqd

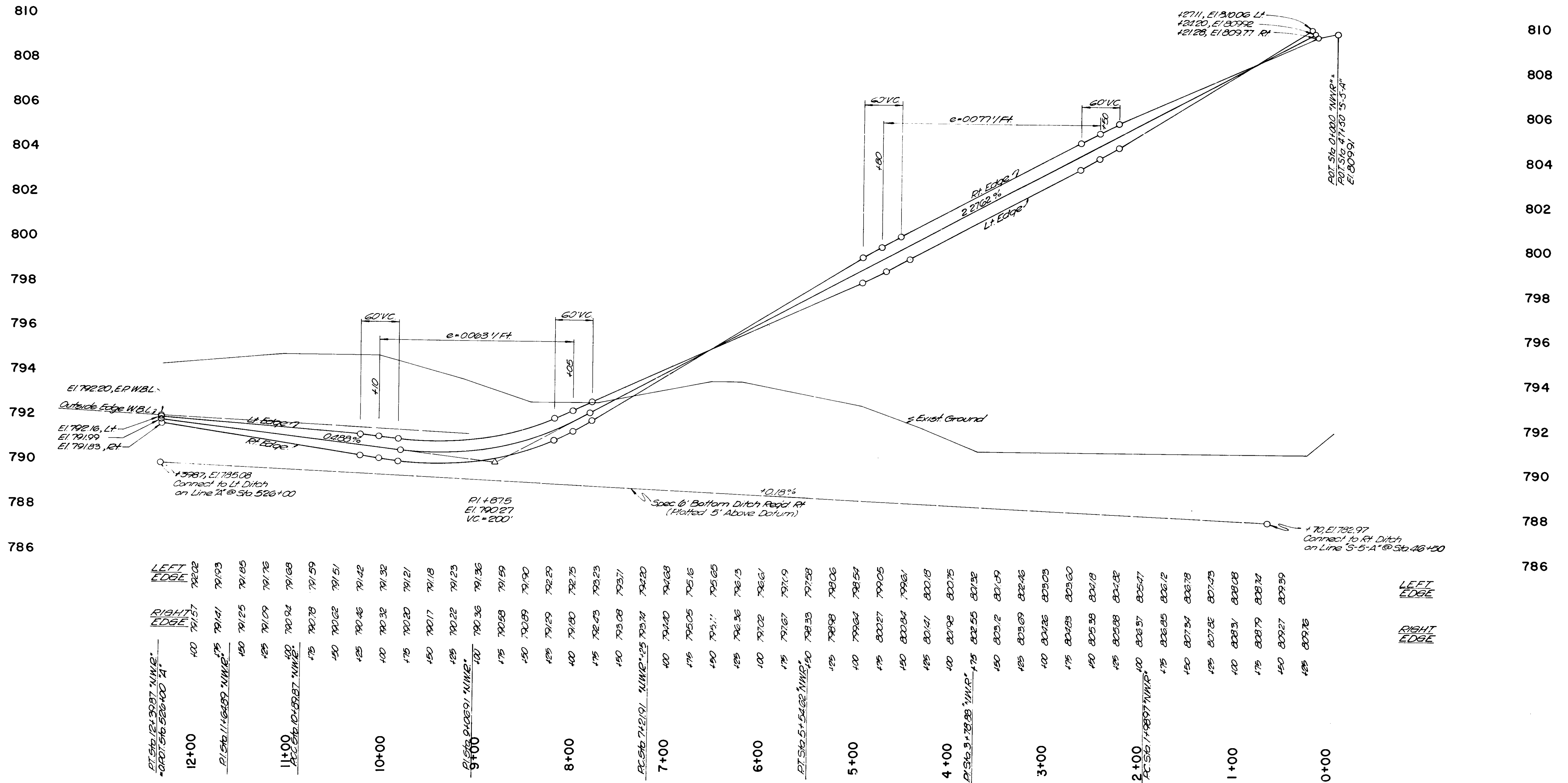
U.S. 24 AND WINCHESTER ROAD INTERCHANGE DRAINAGE

SCALE: 1" = 100'

WINCHESTER ROAD INTERCHANGE NORTHWEST RAMP

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-1116	1988	25	125

SCALE: HORIZ. - 1" = 50'
VERT. - 1" = 2'

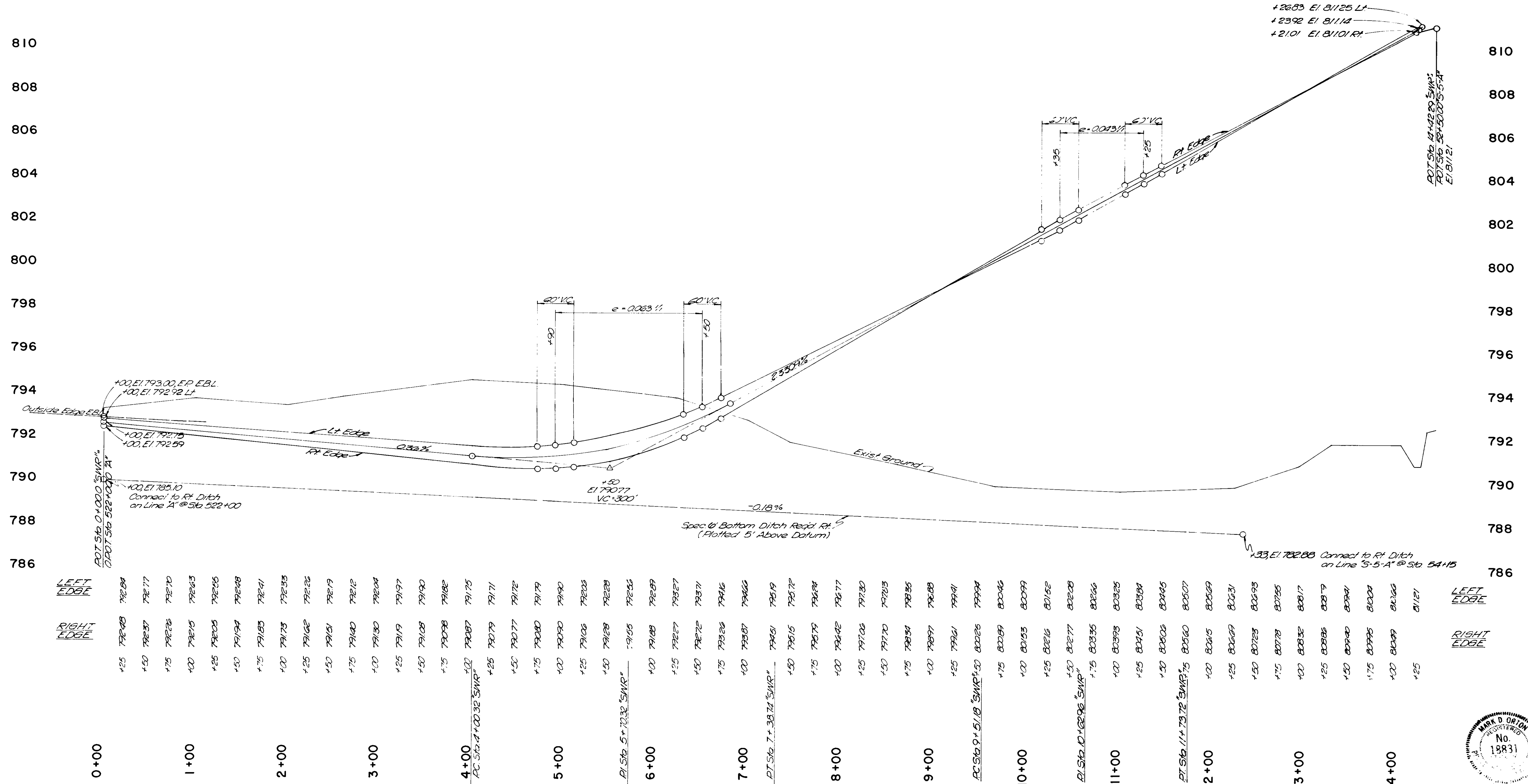


STATION	LEFT EDGE	RIGHT EDGE
12+00	792.02	791.57
11+00	791.93	791.41
10+00	791.85	791.25
9+00	791.76	791.09
8+00	791.68	790.94
7+00	791.59	790.78
6+00	791.51	790.62
5+00	791.42	790.46
4+00	791.32	790.32
3+00	791.21	790.20
2+00	791.18	790.17
1+00	791.23	790.22
0+00	791.36	790.36
	791.59	790.58
	791.90	790.89
	792.29	791.29
	792.75	791.80
	793.23	792.43
	793.71	793.08
	794.20	793.74
	794.68	794.40
	795.16	795.05
	795.65	795.71
	796.13	796.36
	796.61	797.02
	797.09	797.67
	797.58	798.33
	798.06	798.98
	798.54	799.64
	799.05	800.27
	799.61	800.94
	800.18	801.41
	800.75	801.98
	801.32	802.55
	801.99	803.12
	802.46	803.69
	803.03	804.26
	803.60	804.83
	804.18	805.38
	804.73	805.98
	805.47	806.57
	806.12	807.15
	806.78	807.74
	807.43	808.31
	808.08	808.89
	808.74	809.47
	809.39	809.76

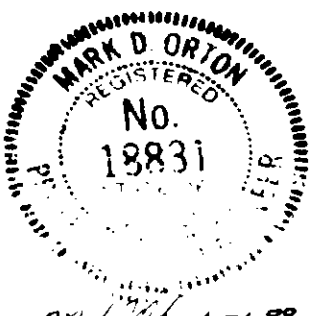
WINCHESTER ROAD INTERCHANGE SOUTHWEST RAMP

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-116	1988	EG	145

SCALE: HORIZ. - 1" = 50'
VERT. - 1" = 2'



STATION	LEFT EDGE	RIGHT EDGE
0+00	792.84	792.48
0+25	792.77	792.37
0+50	792.70	792.26
0+75	792.63	792.15
1+00	792.55	792.05
1+25	792.48	791.94
1+50	792.41	791.83
1+75	792.33	791.73
2+00	792.26	791.62
2+25	792.19	791.51
2+50	792.12	791.40
2+75	792.04	791.30
3+00	791.97	791.19
3+25	791.90	791.08
3+50	791.82	790.98
3+75	791.75	790.87
4+00	791.71	790.79
4+25	791.72	790.77
4+50	791.79	790.80
4+75	791.90	790.90
5+00	792.03	791.06
5+25	792.28	791.28
5+50	792.53	791.55
5+75	792.89	791.89
6+00	793.27	792.27
6+25	793.71	792.71
6+50	794.16	793.16
6+75	794.60	793.60
7+00	795.19	794.19
7+25	795.72	794.72
7+50	796.24	795.24
7+75	796.77	795.77
8+00	797.30	796.30
8+25	797.83	796.83
8+50	798.35	797.35
8+75	798.88	797.88
9+00	799.41	798.41
9+25	799.94	798.94
9+50	800.46	799.46
9+75	800.99	799.99
10+00	801.52	800.52
10+25	802.05	801.05
10+50	802.58	801.58
10+75	803.11	802.11
11+00	803.64	802.64
11+25	804.17	803.17
11+50	804.70	803.70
11+75	805.23	804.23
12+00	805.76	804.76
12+25	806.29	805.29
12+50	806.82	805.82
12+75	807.35	806.35
13+00	807.88	806.88
13+25	808.41	807.41
13+50	808.94	807.94
13+75	809.47	808.47
14+00	810.00	809.00
14+25	810.53	809.53
14+50	811.06	810.06
14+75	811.59	810.59
15+00	812.12	811.12



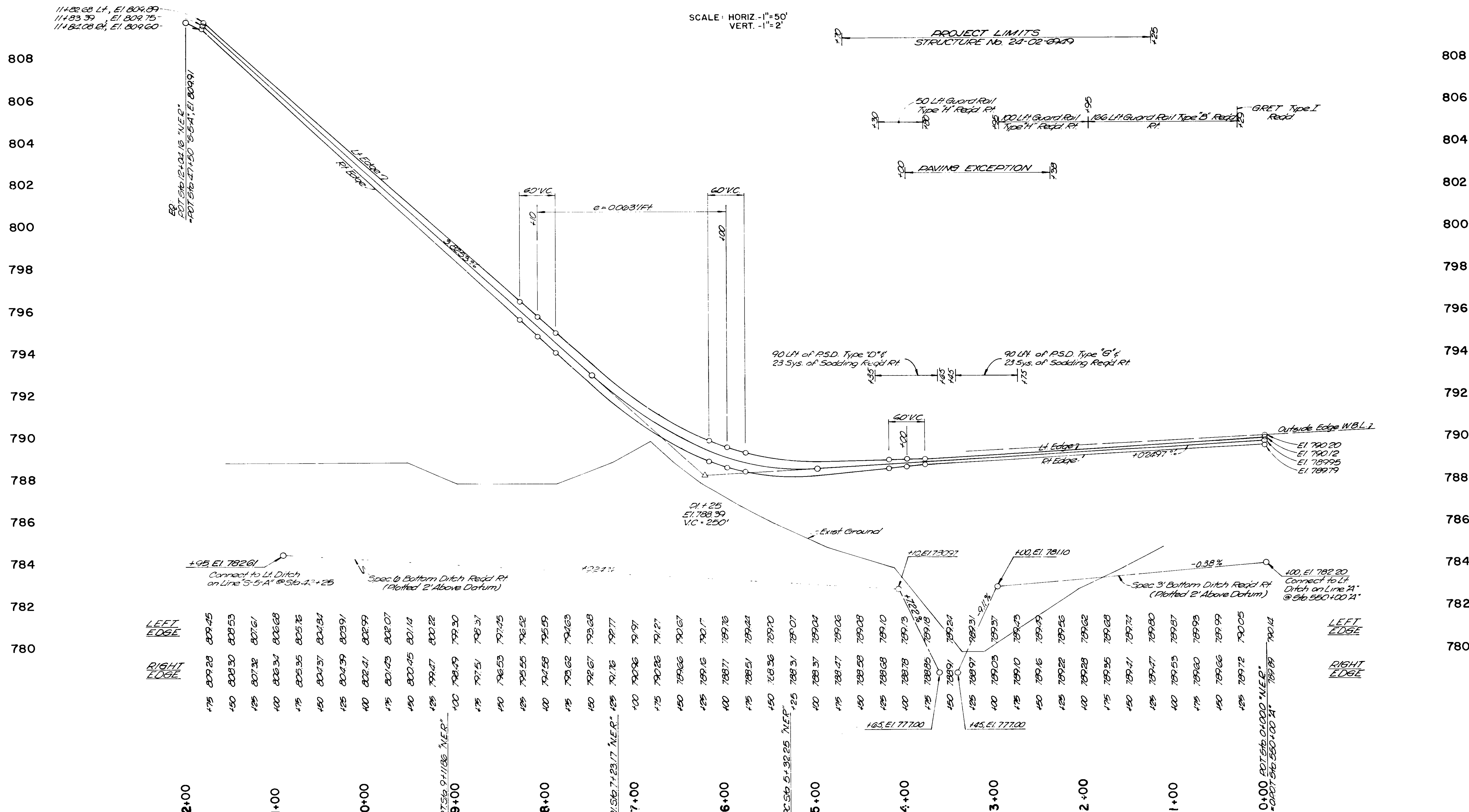
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-170-116		EG	145	

WINCHESTER ROAD INTERCHANGE

NORTHEAST RAMP

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	IND.	F-170-1108	1988	27	145

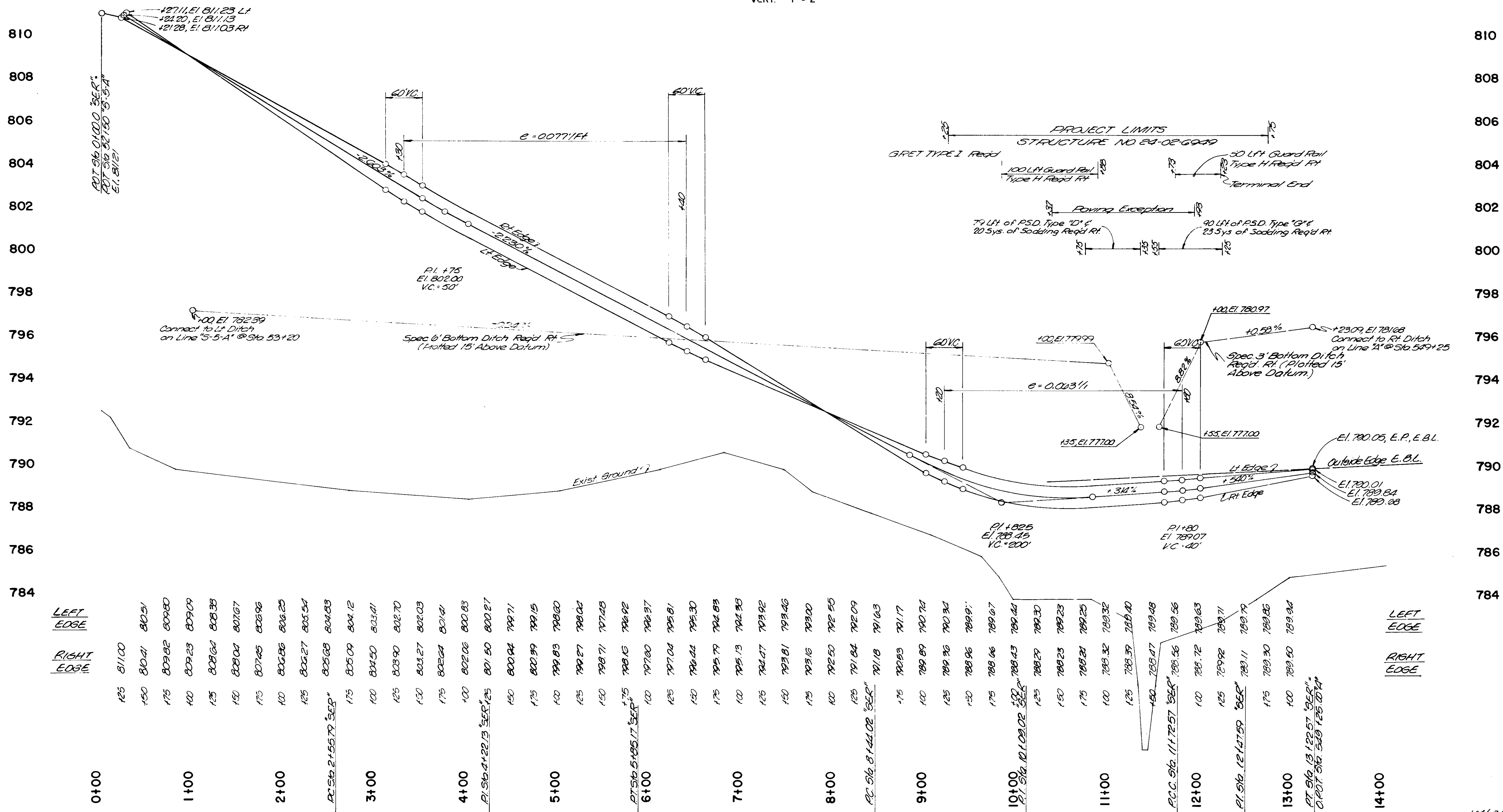
SCALE: HORIZ. - 1" = 50'
VERT. - 1" = 2'



WINCHESTER ROAD INTERCHANGE SOUTHEAST RAMP

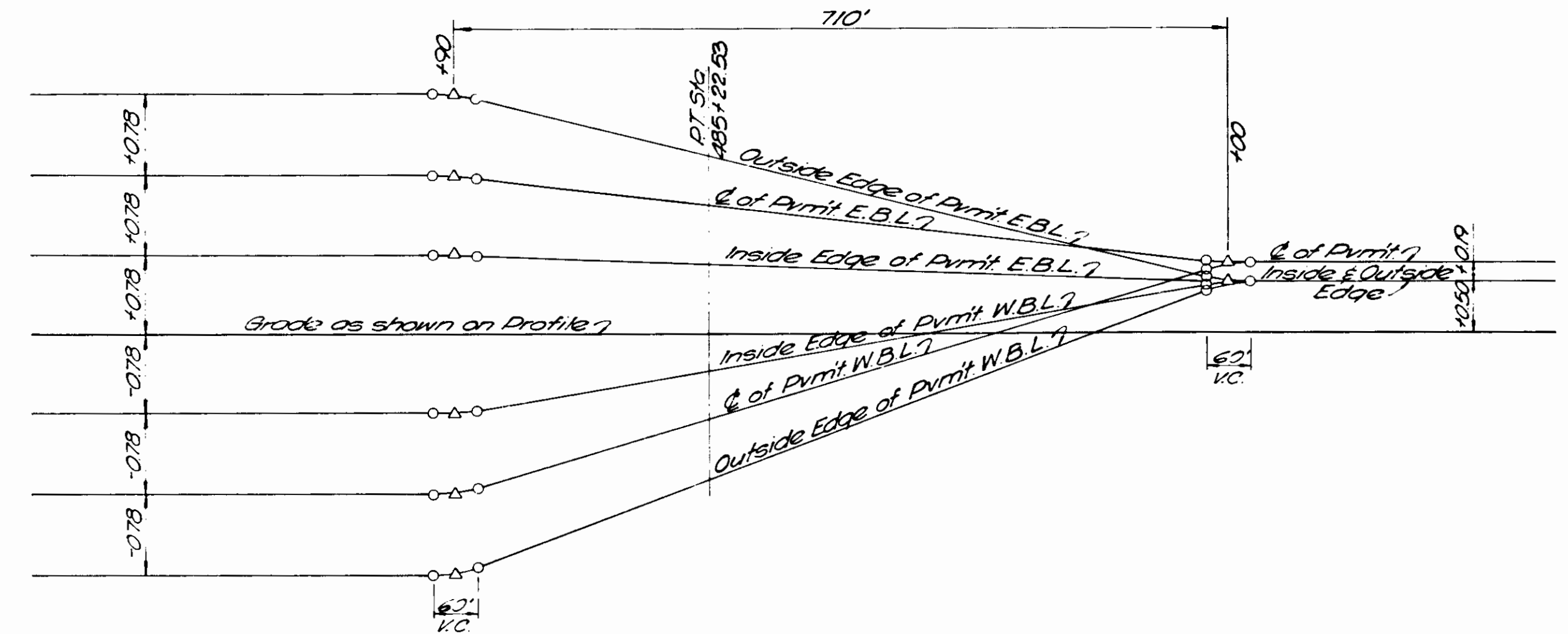
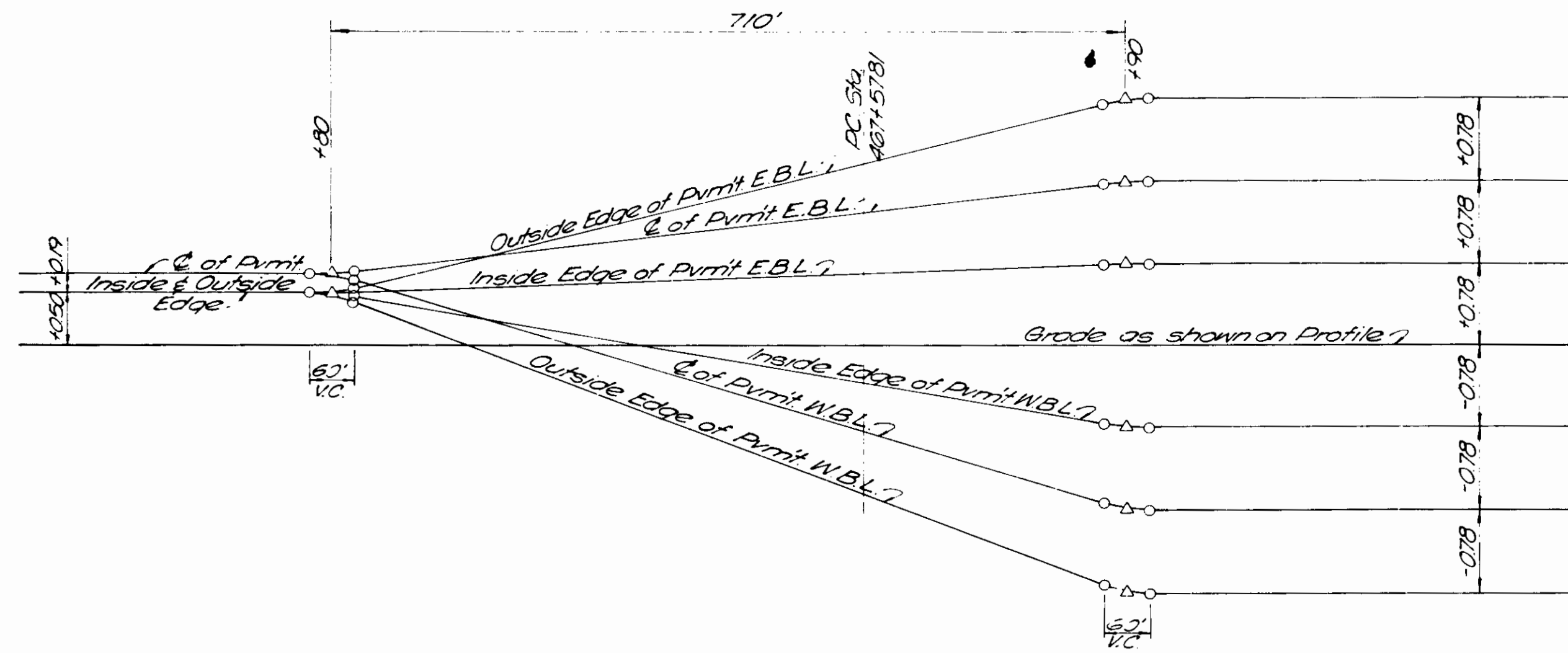
FEDERAL REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-1106	1988	23	145

SCALE: HORIZ. - 1" = 50'
VERT. - 1" = 2'



STATION	LEFT EDGE	RIGHT EDGE
0+00	125 811.00	125 811.00
1+00	150 810.41	150 810.41
2+00	175 809.82	175 809.82
3+00	200 809.23	200 809.23
4+00	225 808.64	225 808.64
5+00	250 808.04	250 808.04
6+00	275 807.45	275 807.45
7+00	300 806.86	300 806.86
8+00	325 806.27	325 806.27
9+00	350 805.68	350 805.68
10+00	375 805.09	375 805.09
11+00	400 804.50	400 804.50
12+00	425 803.90	425 803.90
13+00	450 803.27	450 803.27
14+00	475 802.64	475 802.64
15+00	500 802.06	500 802.06
16+00	525 801.50	525 801.50
17+00	550 800.94	550 800.94
18+00	575 800.39	575 800.39
19+00	600 799.83	600 799.83
20+00	625 799.27	625 799.27
21+00	650 798.71	650 798.71
22+00	675 798.16	675 798.16
23+00	700 797.60	700 797.60
24+00	725 797.04	725 797.04
25+00	750 796.44	750 796.44
26+00	775 795.79	775 795.79
27+00	800 795.13	800 795.13
28+00	825 794.47	825 794.47
29+00	850 793.81	850 793.81
30+00	875 793.16	875 793.16
31+00	900 792.50	900 792.50
32+00	925 791.84	925 791.84
33+00	950 791.18	950 791.18
34+00	975 790.53	975 790.53
35+00	1000 789.89	1000 789.89
36+00	1025 789.36	1025 789.36
37+00	1050 788.96	1050 788.96
38+00	1075 788.66	1075 788.66
39+00	1100 788.43	1100 788.43
40+00	1125 788.29	1125 788.29
41+00	1150 788.23	1150 788.23
42+00	1175 788.21	1175 788.21
43+00	1200 788.32	1200 788.32
44+00	1225 788.59	1225 788.59
45+00	1250 788.47	1250 788.47
46+00	1275 788.56	1275 788.56
47+00	1300 788.72	1300 788.72
48+00	1325 788.92	1325 788.92
49+00	1350 789.11	1350 789.11
50+00	1375 789.30	1375 789.30
51+00	1400 789.50	1400 789.50
52+00	1425 789.86	1425 789.86
53+00	1450 789.94	1450 789.94

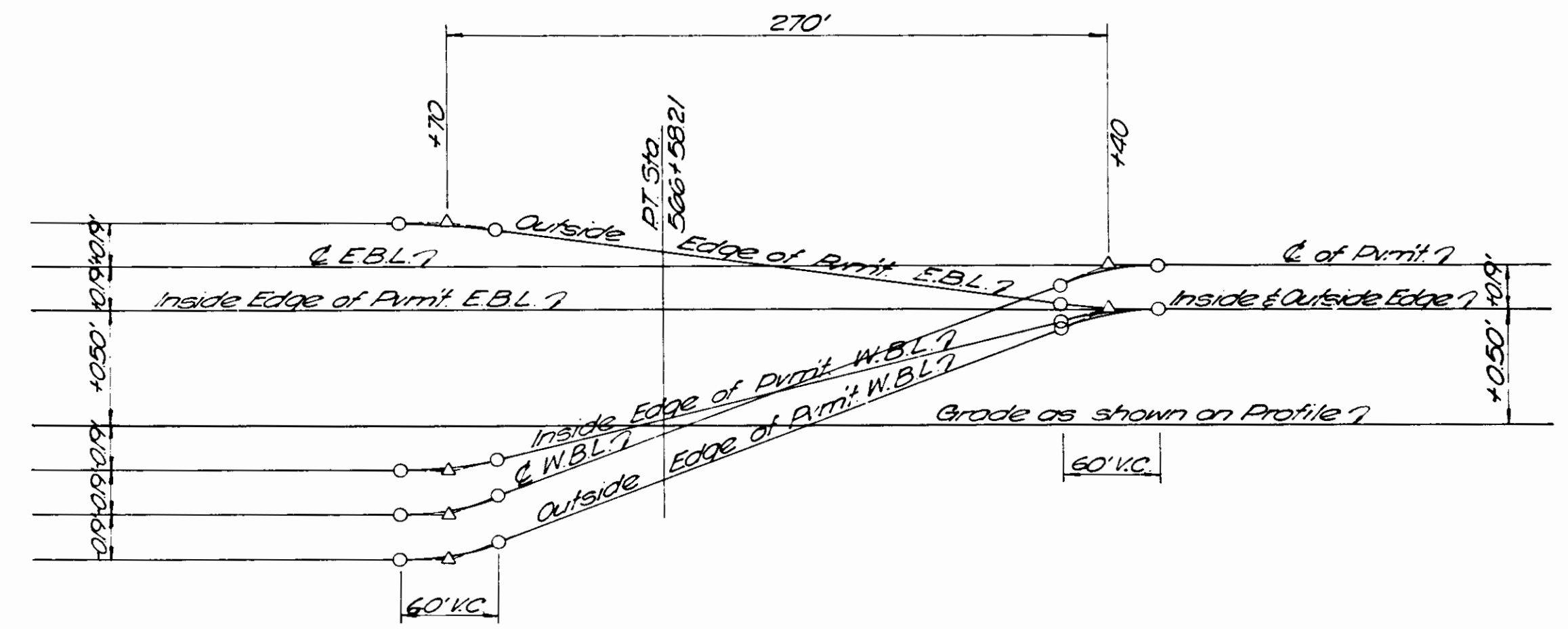
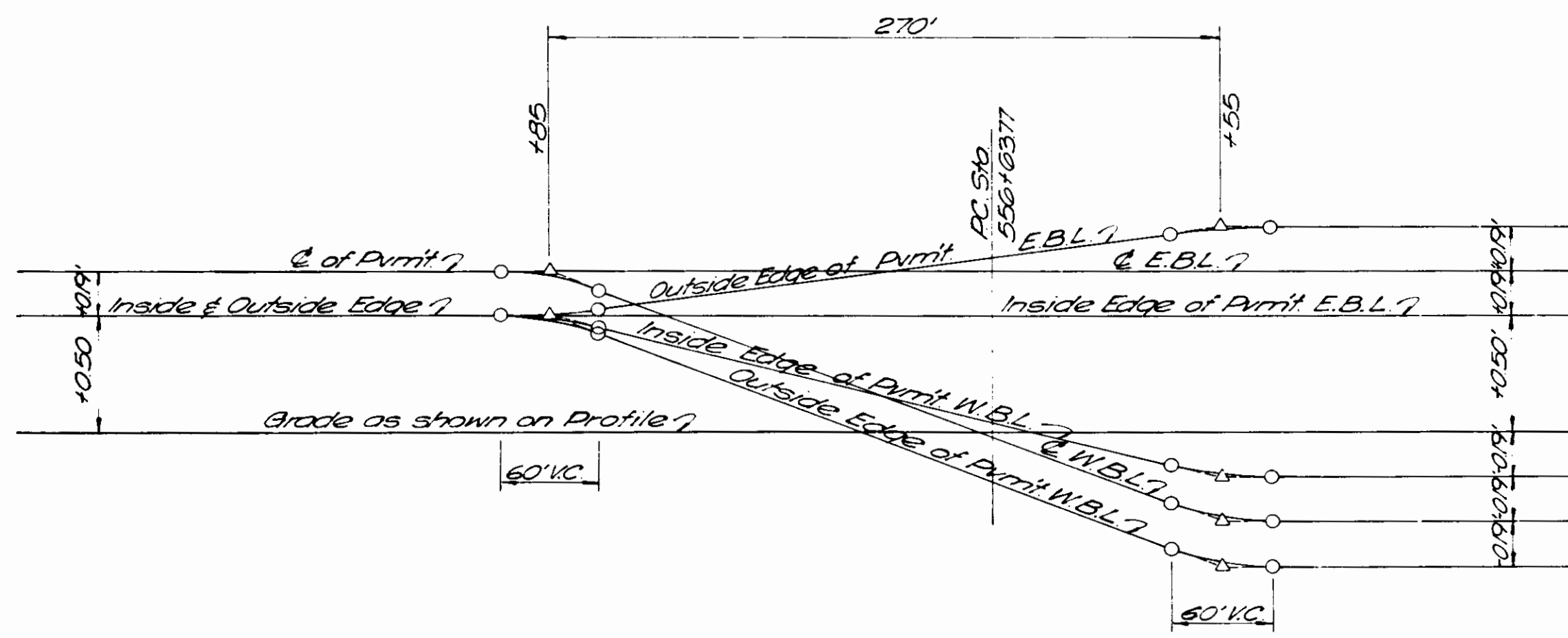
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-116A	1988	29	145



461+00
462+00
463+00
464+00
465+00
466+00
467+00
468+00
469+00
470+00
471+00
472+00

SUPERELEVATION TRANSITION
PI STA. 476+69.17 LINE "A"
RATE = 0.065 FT./FT.
Scale: Horiz 1"=100'
Vert 1"=10'

482+00
483+00
484+00
485+00
486+00
487+00
488+00
489+00
490+00
491+00
492+00



553+00
554+00
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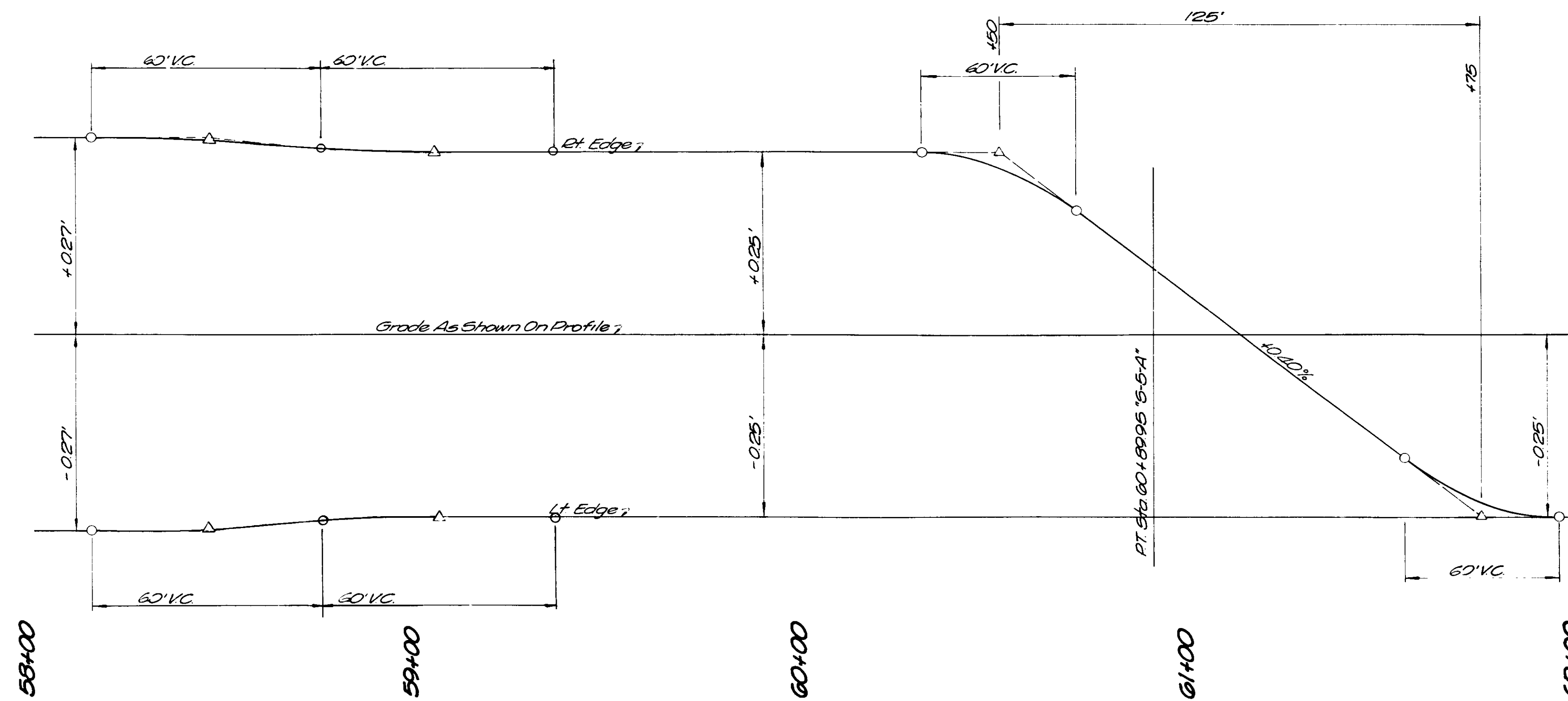
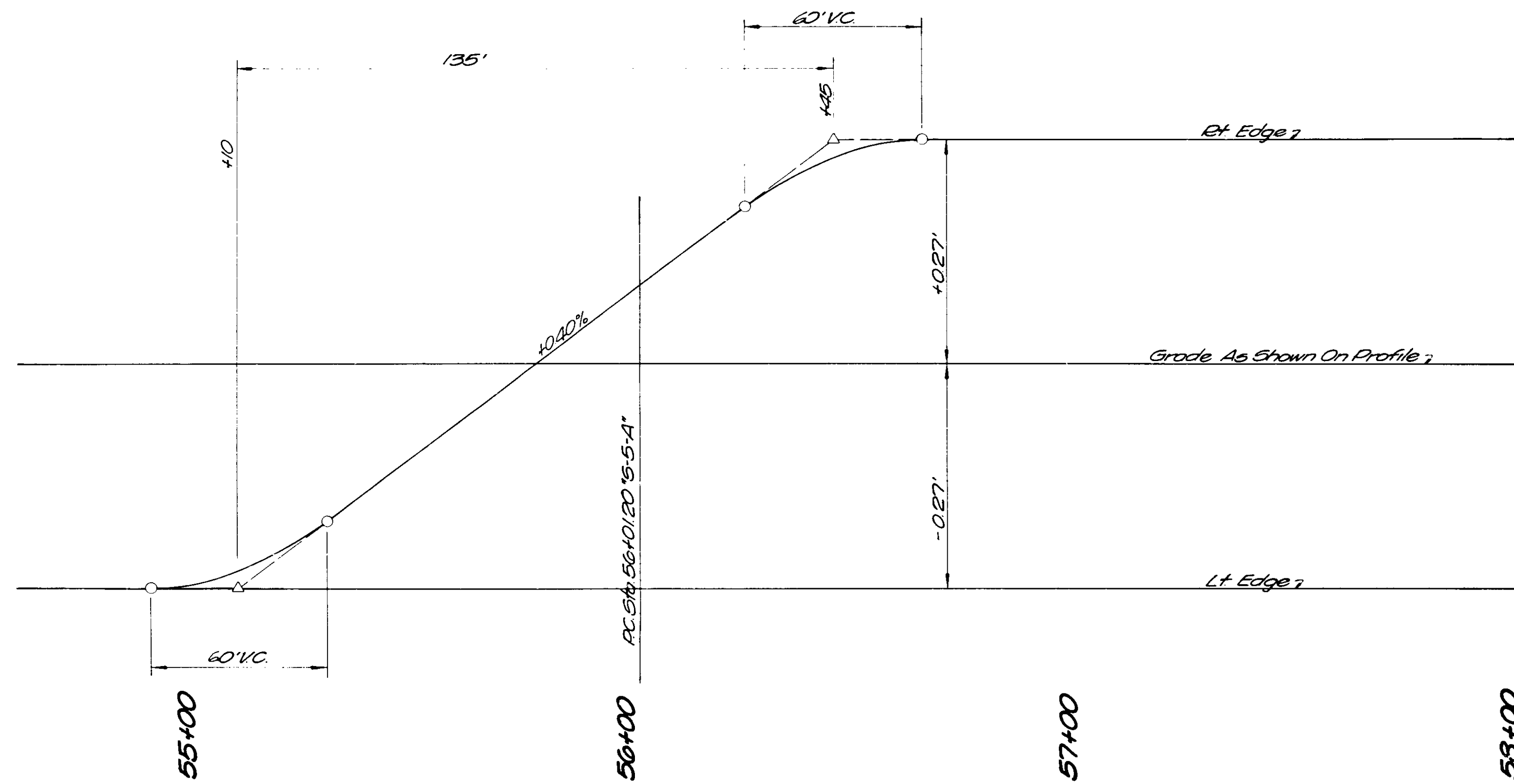
SUPERELEVATION TRANSITION
PI STA. 561+61.44 LINE "A"
REMOVE CROWN
Scale: Horiz 1"=50'
Vert 1"=0.50'

565+00
566+00
567+00
568+00
569+00
570+00

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-170-116		29	145	

m. 1006 2-21-88

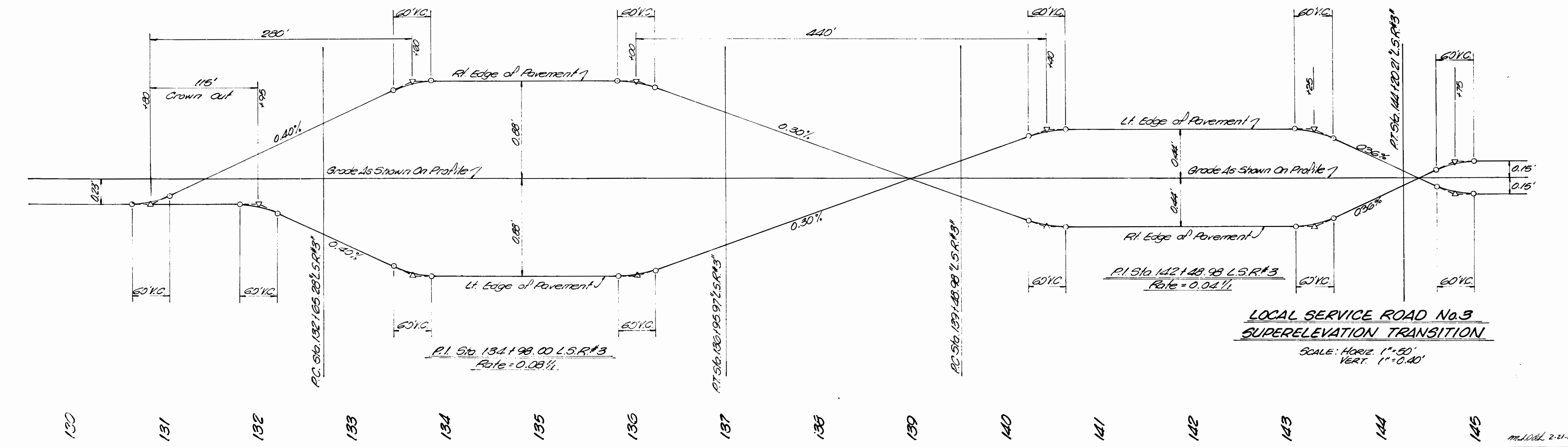
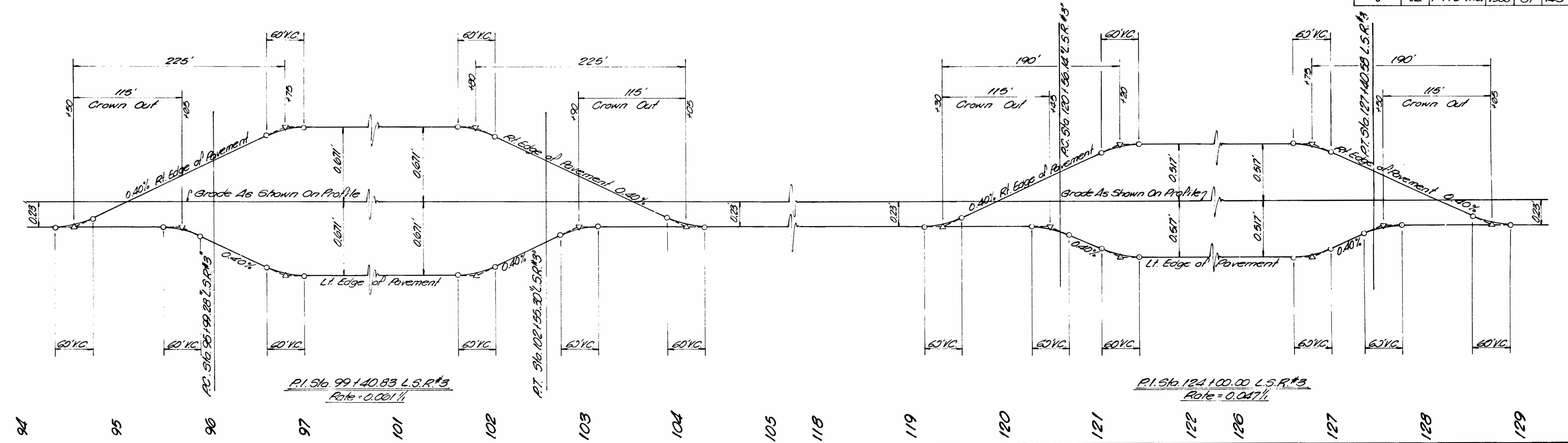
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-110A	1988	30	145



LINE "S-5-A"
 SUPERELEVATION
 TRANSITION
 SCALE Horiz 1"=20'
 Vert 1"=0.1'
 Note: Remove
 Crown

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	DATE
F-170-110A		30	145	M.D.L. 2-21-88

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-11A	1988	31	145



**LOCAL SERVICE ROAD No. 3
SUPERELEVATION TRANSITION**

SCALE: HORIZ. 1"=50'
VERT. 1"=0.40'

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-170-11A		31	145	

m.l.v.d.l. 2-21-88

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-1(6)	1988	32	145

STRUCTURE: 24-02-7024
BILL OF MATERIALS
NE. or SW. R.C. APPR. SLAB

REINFORCING STEEL			
Mark or Size	Number of Bars	Length (Ft.-in)	Weight (Lbs)
59/ #5	67	20'-7"	
	22	19'-0"	
Total Steel (Plain)			1874
CONCRETE			
Concrete Pavement Reinforced (11")			104 Sys.

STRUCTURE: 24-02-7024
BILL OF MATERIALS
NW. or SE. R.C. APPR. SLAB

REINFORCING STEEL			
Mark or Size	Number of Bars	Length (Ft.-in)	Weight (Lbs)
59/ #5	45	20'-7"	
	11	24'-0"	
Total Steel (Plain)			1241
CONCRETE			
Concrete Pavement Reinforced (11")			65 Sys.

STRUCTURE: 24-02-6949
BILL OF MATERIALS
NW. R.C. APPR. SLAB

REINFORCING STEEL			
Mark or Size	Number of Bars	Length (Ft.-in)	Weight (Lbs)
59/ #5	161	20'-7"	
	33	3'-0"	
Total #5			4523
Additional #5			4094
Total Steel (Plain)			8617
CONCRETE			
Concrete Pavement Reinforced (11")			354 Sys.

STRUCTURE: 24-02-6949
BILL OF MATERIALS
SW. R.C. APPR. SLAB

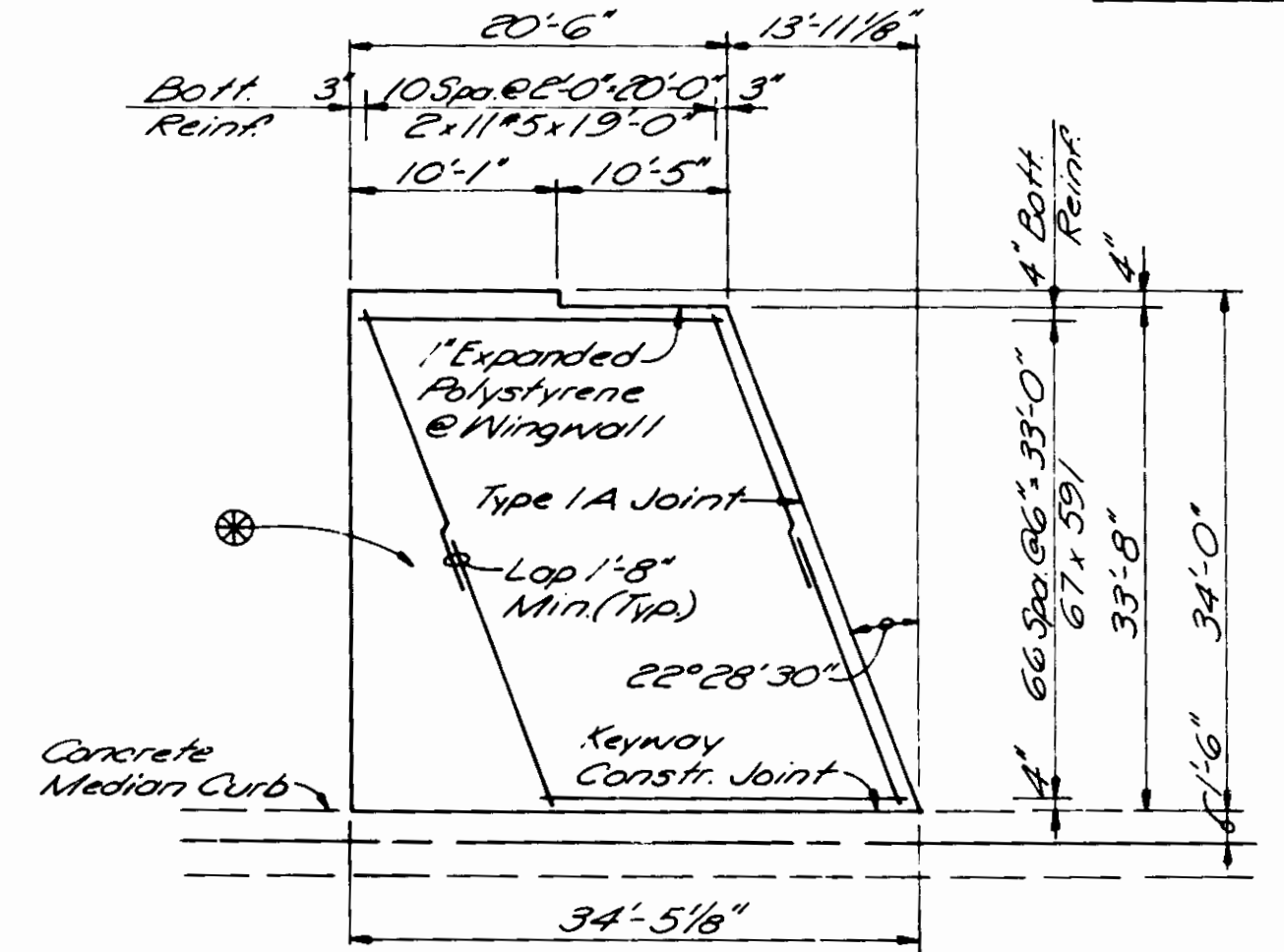
REINFORCING STEEL			
Mark or Size	Number of Bars	Length (Ft.-in)	Weight (Lbs)
59/ #5	152	20'-7"	
	33	29'-9"	
Total #5			4287
Additional #5			3790
Total Steel (Plain)			8077
CONCRETE			
Concrete Pavement Reinforced (11")			337 Sys.

STRUCTURE: 24-02-6949
BILL OF MATERIALS
NE. R.C. APPR. SLAB

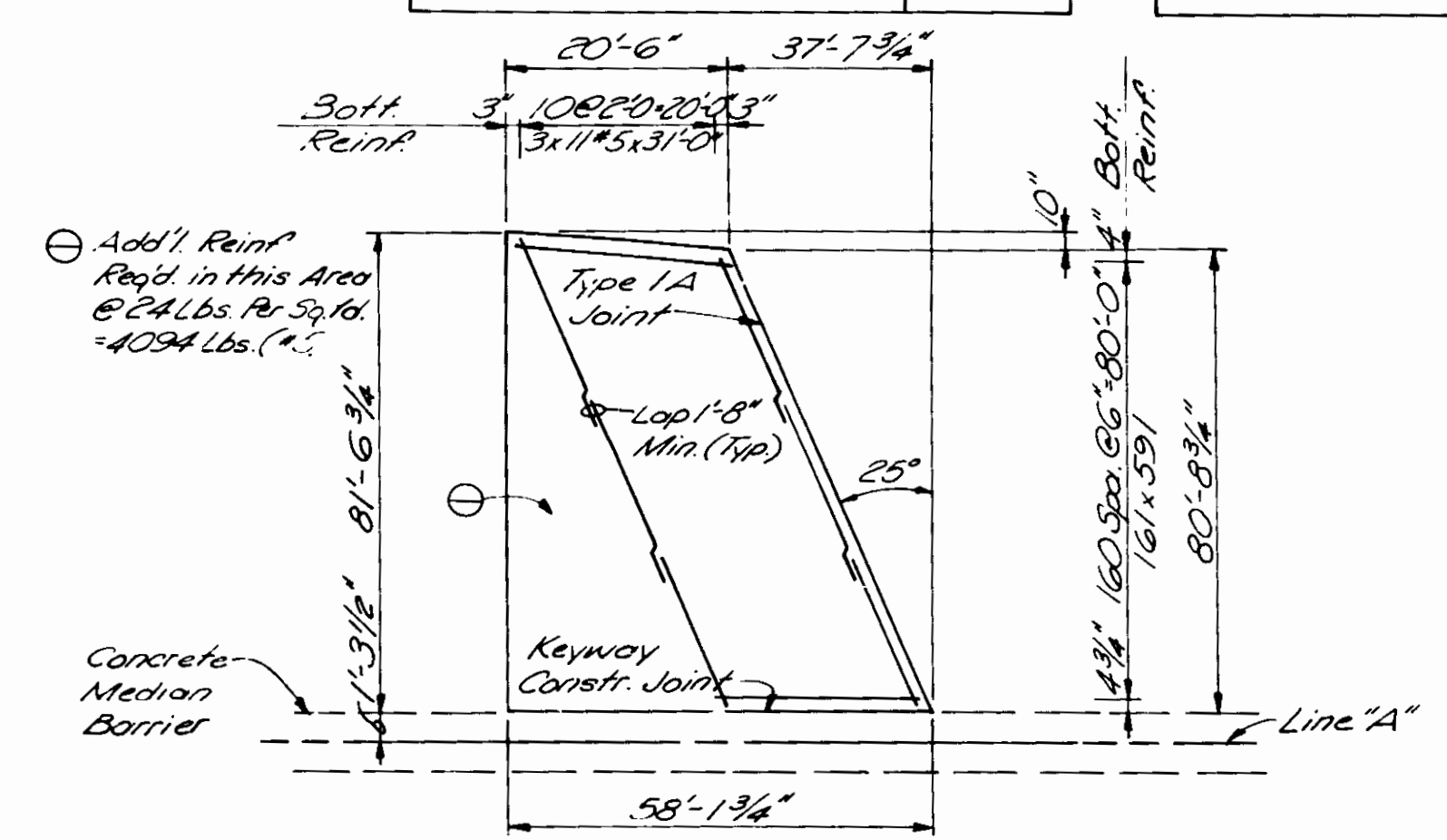
REINFORCING STEEL			
Mark or Size	Number of Bars	Length (Ft.-in)	Weight (Lbs)
59/ #5	155	20'-7"	
	33	29'-6"	
Total #5			4343
Additional #5			3675
Total Steel (Plain)			8018
CONCRETE			
Concrete Pavement Reinforced (11")			328 Sys.

STRUCTURE: 24-02-6949
BILL OF MATERIALS
SE. R.C. APPR. SLAB

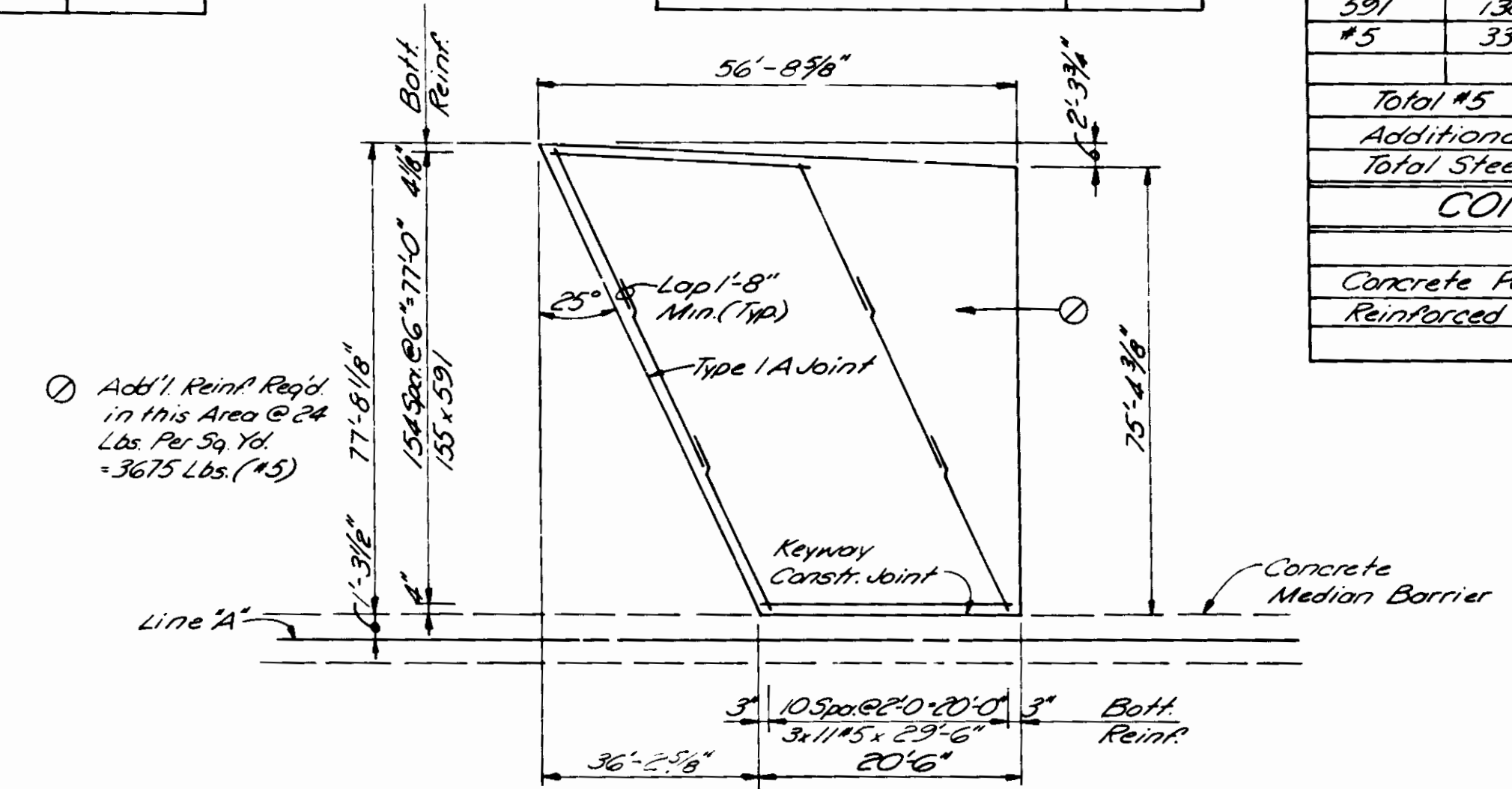
REINFORCING STEEL			
Mark or Size	Number of Bars	Length (Ft.-in)	Weight (Lbs)
59/ #5	138	20'-7"	
	33	26'-6"	
Total #5			3875
Additional #5			2739
Total Steel (Plain)			6614
CONCRETE			
Concrete Pavement Reinforced (11")			275 Sys.



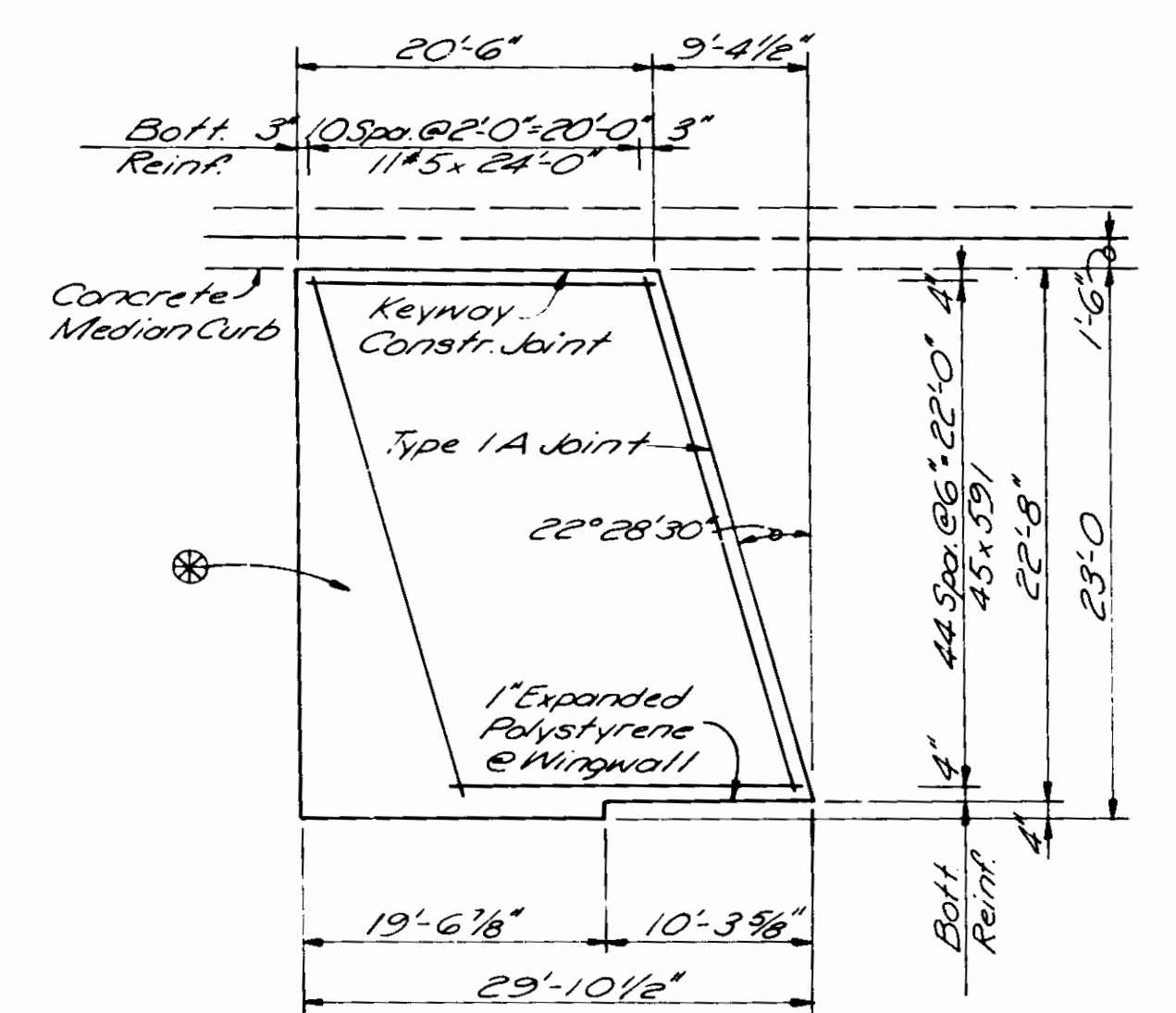
PLAN
NORTH EAST APPROACH (SHOWN)
SOUTH WEST APPROACH (ROTATE 180°)



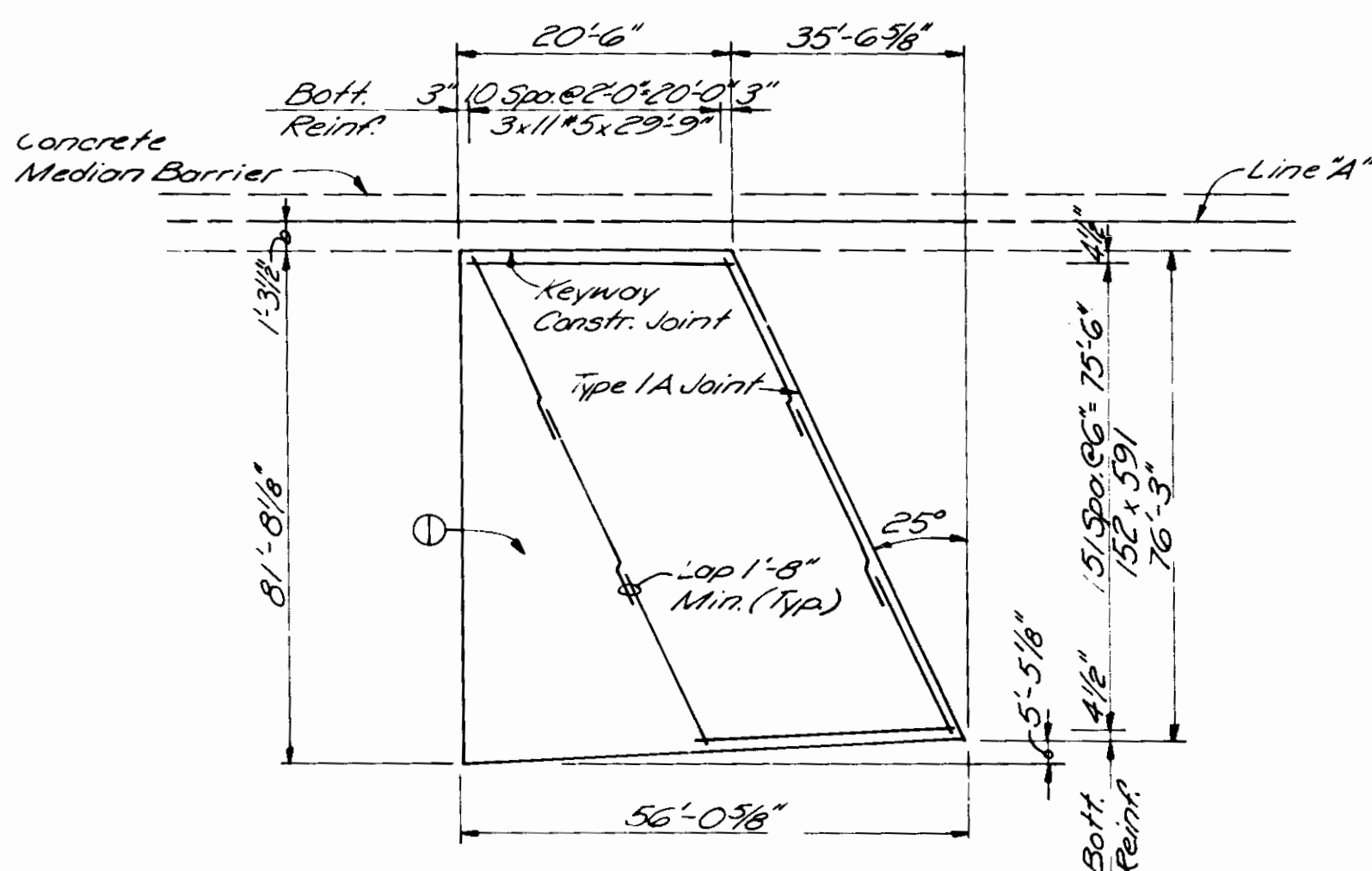
PLAN
NORTH WEST APPROACH



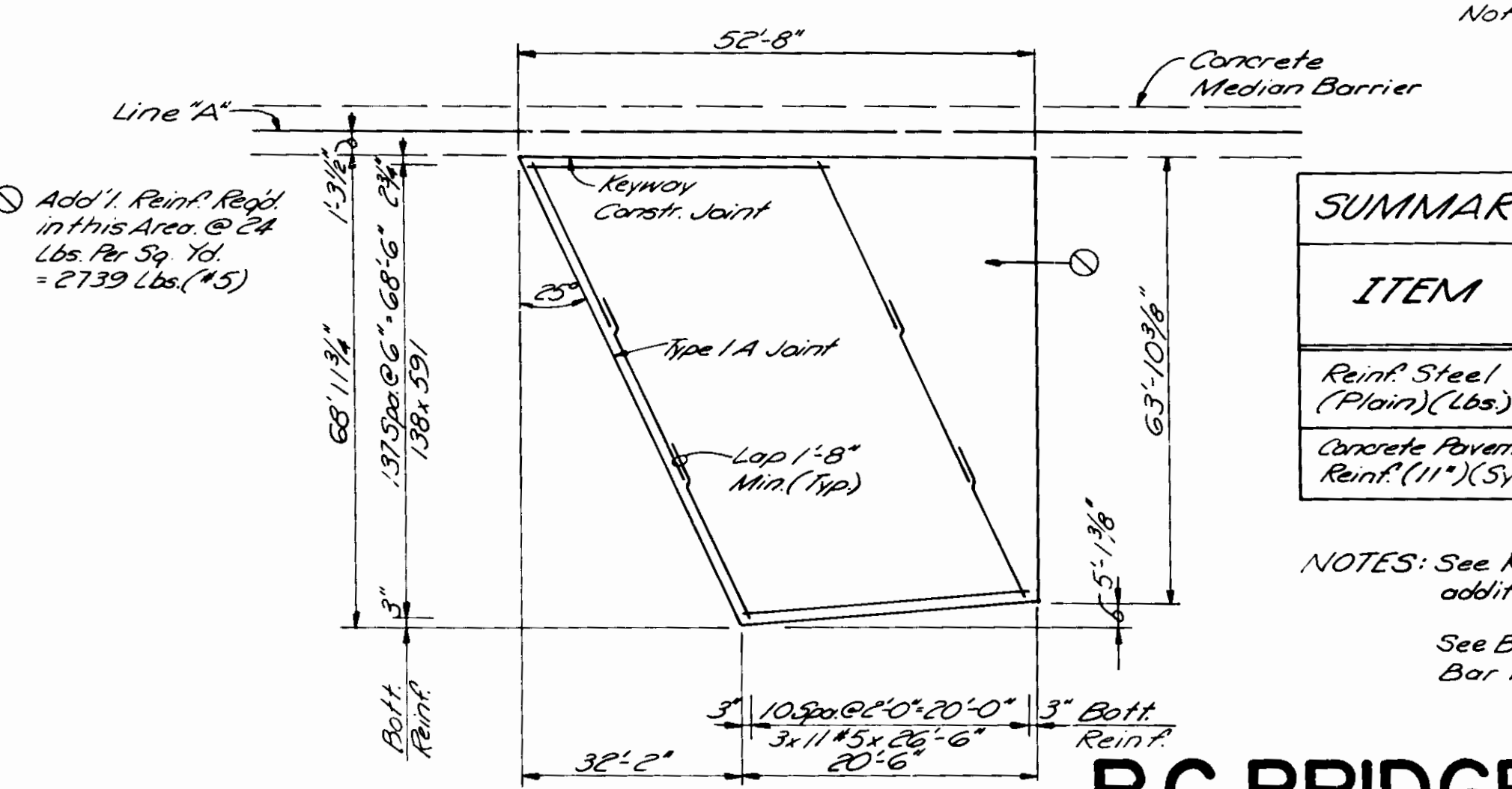
PLAN
NORTH EAST APPROACH



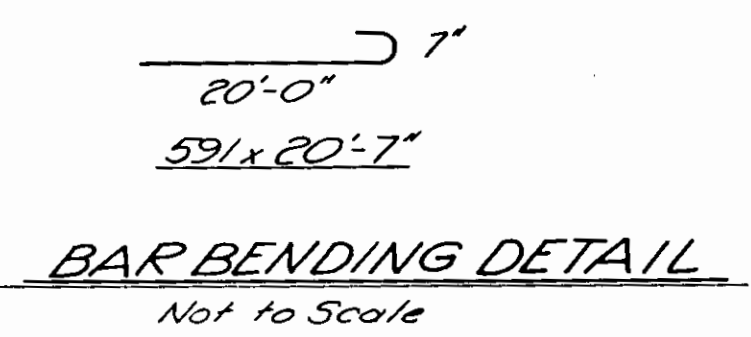
PLAN
NORTH WEST APPROACH (SHOWN)
SOUTH EAST APPROACH (ROTATE 180°)



PLAN
SOUTH WEST APPROACH



PLAN
SOUTH EAST APPROACH



SUMMARY OF QUANTITIES

ITEM	STRUCTURE		TOTAL
	7024	6949	
Reinf. Steel (Plain) (Lbs)	6230	31326	37556
Concrete Pavement Reinf. (11") (Sys)	338	1294	1632

NOTES: See Rd. Std. MA for additional details.
See Br. Std. C1 for Reinf. Bar Notes.

WINCHESTER ROAD OVER U.S. 24
STRUCTURE: 24-02-7024

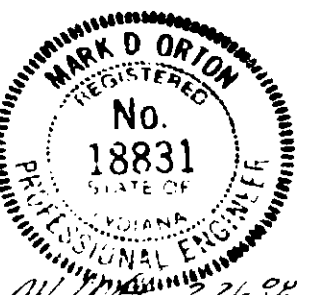
U.S. 24 OVER SNYDER DITCH
STRUCTURE: 24-02-6949

R.C. BRIDGE APPR. DETAILS
NOT TO SCALE



532+00 'A' Lr	4
533+00 'A' Rt	4
5+00 'NER' Rt	4
10+00 'SE' Rt	4
548+00 'A' Lr	4
548+00 'A' Rt	4
55+00 'S-S-A' Lr	4
55+00 'S-S-A' Rt	4

TOTAL



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-170-1(16)		33a	145	

PAVED SIDE DITCH & SODDING SUMMARY TABLE

FROM STATION	TO STATION	LOCATION	PAVED SIDE DITCH				SODDING					SEE SHEET NO	
			ACTUAL LENGTH	CUT OFF WALLS (EQUIVALENT LENGTH EA)	LUGS (EQUIVALENT LENGTH EA)	TOTAL EQUIVALENT PAY LENGTHS							
						LEFT	EACH	RIGHT	FOR PAVED SIDE DITCH	FOR DITCHES	FOR MEDIAN		FOR SHOULDER
387+25	387+50												11
392+75	393+75												11
397+75	399+00												12
402+75	408+25												12
529+75	535+88												13
530+75	536+58												13
585+75	589+25												18
618+75	630+00												19
619+25	624+25												19
643+00	646+25												20
653+75	660+20												20
654+75	659+30												20
662+85	664+40		155	2		179			52				20
664+40	670+25												20-21
668+75	671+25		250	2		279			83				21
MAINLINE												6543	
LINE "S-SR1-A" (SR1)													
829+75	831+30												21
832+75	836+10												21
833+75	838+50												21
834+30	835+50												21
849+35	852+35												21
850+24	851+84												21
SR 1 INTERCHANGE													
SOUTH EAST RAMP													
9125	9125												39
NORTH EAST RAMP													
2+25	2+85		80	10		79							39
2+95	3+75		80	2		100							39
3+00	10+75												39
NORTH WEST RAMP													
10+35	10+25												37

PAVED SIDE DITCH & SODDING SUMMARY TABLE

FROM STATION	TO STATION	LOCATION	PAVED SIDE DITCH				SODDING					SEE SHEET NO					
			ACTUAL LENGTH	CUT OFF WALLS (EQUIVALENT LENGTH EA)	LUGS (EQUIVALENT LENGTH EA)	TOTAL EQUIVALENT PAY LENGTHS											
						LEFT	EACH	RIGHT	FOR PAVED SIDE DITCH	FOR DITCHES	FOR MEDIAN		FOR SHOULDER	FOR LAWN SODDING (NURSERY)			
SOUTH WEST RAMP																	
LINE "S-6-A"																	
48+75	49+25		50	2		60							26A				
48+75	49+25		50	2		60							26A				
50+75	51+25		55	2		74							26A				
50+75	51+25		55	2		74							26A				
LINE "S-5-A" (WINCHESTER RD)																	
40+40	42+25										210		18				
40+50	43+70											889	18				
41+75	42+25										298		18				
44+75	45+75										70		18				
45+75	46+50		75			95				25			18				
45+75	46+50		75			95				25			18				
45+75	46+50		75			95				25			18				
53+90	59+25										133		18				
61+75	63+50										160		18				
61+75	63+50										160		18				
WINCHESTER RD INTERCHANGE																	
NORTH EAST RAMP																	
2+75	3+45		70			90					23		27				
3+65	4+35		70			90					23		27				
SOUTH EAST RAMP																	
10+75	11+35		50			79					20		28				
11+55	12+25		70			90					23		28				
NORTH WEST RAMP																	
SOUTH WEST RAMP																	
SUB TOTAL												285	160	164	2098	737	889

PAVED SIDE DITCH & SODDING SUMMARY TABLE

FROM STATION	TO STATION	LOCATION	PAVED SIDE DITCH			SODDING			TOTAL EQUIVALENT PAY LENGTHS	TYPE	SEE SHEET NO.
			ACTUAL LENGTH	CUT OFF WALLS (8 EQUIVALENT LENGTH EA)	LUGS (8 EQUIVALENT LENGTH EA)	LEFT	RIGHT	SHOULDER			
<i>Line 1038 07 (US 27)</i>											
713+75	718+45		470		2	526					
716+30	717+77		47			47					
725+25	727+35		210			245					
724+95	726+25		130			153					
<i>US 27 INTERCHANGE</i>											
<i>NORTH WEST RAMP</i>											
5+75	10+00									350	
7+40	3+25		185			210				62	
<i>SOUTH WEST RAMP</i>											
0+00	4+00									257	
<i>NORTH EAST RAMP</i>											
3+25	17+00									357	
<i>SOUTH EAST RAMP</i>											
<i>ECATUP RD</i>											
<i>West side of Cut-de-sac</i>											
<i>LSR #1</i>											
395+50	399+15									181	
399+15	400+10		95	10		105				30	
400+30	401+25		95	10		110				30	
401+25	407+00									235	
407+75	413+00									261	
413+00	413+95		57	5		78				19	
414+05	414+90		85	5		105				28	
427+25	429+25									75	
<i>LSR #3</i>											
93+75	95+25									90	
113+25	116+25									150	
131+00	134+75									263	
135+75	137+25									105	
<i>LSR #2</i>											
175	18+25									12	

PAVED SIDE DITCH & SODDING SUMMARY TABLE

FROM STATION	TO STATION	LOCATION	PAVED SIDE DITCH			SODDING			TOTAL EQUIVALENT PAY LENGTHS	TYPE	SEE SHEET NO.
			ACTUAL LENGTH	CUT OFF WALLS (8 EQUIVALENT LENGTH EA)	LUGS (8 EQUIVALENT LENGTH EA)	LEFT	RIGHT	SHOULDER			
TOTAL											
						285	89	180			
						164	3380			7842 889	
						TOTAL = 12,403				545 *	

SUMMARY OF QUANTITIES AND APPROACH TABLE

ITEM NO.	DESCRIPTION	UNITS	ESTIMATED QUANTITIES								TOTAL	UNIT PRICE	TOTAL COST																		
			1	2	3	4	5	6	7	8																					
			1	2	3	4	5	6	7	8	9	10	11																		
EXCAVATION			1	2	3	4	5	6	7	8	9	10	11																		
PAVEMENT MATERIALS			1	2	3	4	5	6	7	8	9	10	11																		
CONCRETE			1	2	3	4	5	6	7	8	9	10	11																		
STEEL			1	2	3	4	5	6	7	8	9	10	11																		
OTHER			1	2	3	4	5	6	7	8	9	10	11																		
TOTAL			169,814	409,370	32,545	2,966	13,493	16,691	20,396	13,414	16,106	559	412	7811	5,422	5,453	97,048	—	2,267	9,754	412	7,789	3,142	76,682	13,760	29,392	37,373	1,385	13,273	38,615	1,632

TABLE

F-170-1(16) 1988 40 145

							6" GROUP "K" PIPE FOR TRANSVERSE	OUTSIDE DRAIN		6" GROUP "K" PIPE FOR TRANSVERSE	OUTSIDE DRAIN												
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	450+00	95	450+00	450+00	95	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	451+05	635	451+05	451+05	635	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	457+10	230	457+10	457+10	230	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		40	✓		40	✓	1	465+05	525	465+05	465+05	525	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	468+05	315	468+05	468+05	315	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	471+75	300	471+75	471+75	300	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	474+85	300	474+85	474+85	300	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	477+95	300	477+95	477+95	300	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	481+05	300	481+05	481+05	300	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	484+05	290	484+05	484+05	290	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		44	✓		44	✓	1	487+15	300	487+15	487+15	300	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	492+95	570	492+95	492+95	570	1	36	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	498+95	590	498+95	498+95	590	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	504+95	590	504+95	504+95	590	1	24	2	1	✓	Outlet to Rt Ditch
Outlet to Lt Ditch	✓	1	2	24	1		28	✓		28	✓	1	510+95	590	510+95	510+95	590	1	24	2	1	✓	Outlet to Rt Ditch
							28	✓		40	✓	1	517+05	600	517+05	517+05	600	1	36	2	1	✓	Outlet to Rt Ditch
							28	✓		28	✓	1	522+95	590	522+95	522+95	590	1	24	2	1	✓	Outlet to Rt Ditch
							28	✓		30	✓	1	528+95	590	528+95	528+95	590	1	24	2	1	✓	Outlet to Rt Ditch
							28	✓		28	✓	1	534+95	590	534+95	534+95	590	1	24	2	1	✓	Outlet to Rt Ditch
							28	✓		28	✓	1	537+95	290	537+95	537+95	290	1	24	2	1	✓	Outlet to Rt Ditch
SUB TOTAL		15	30	410	15		8095			8220		1						8	228	18	9		

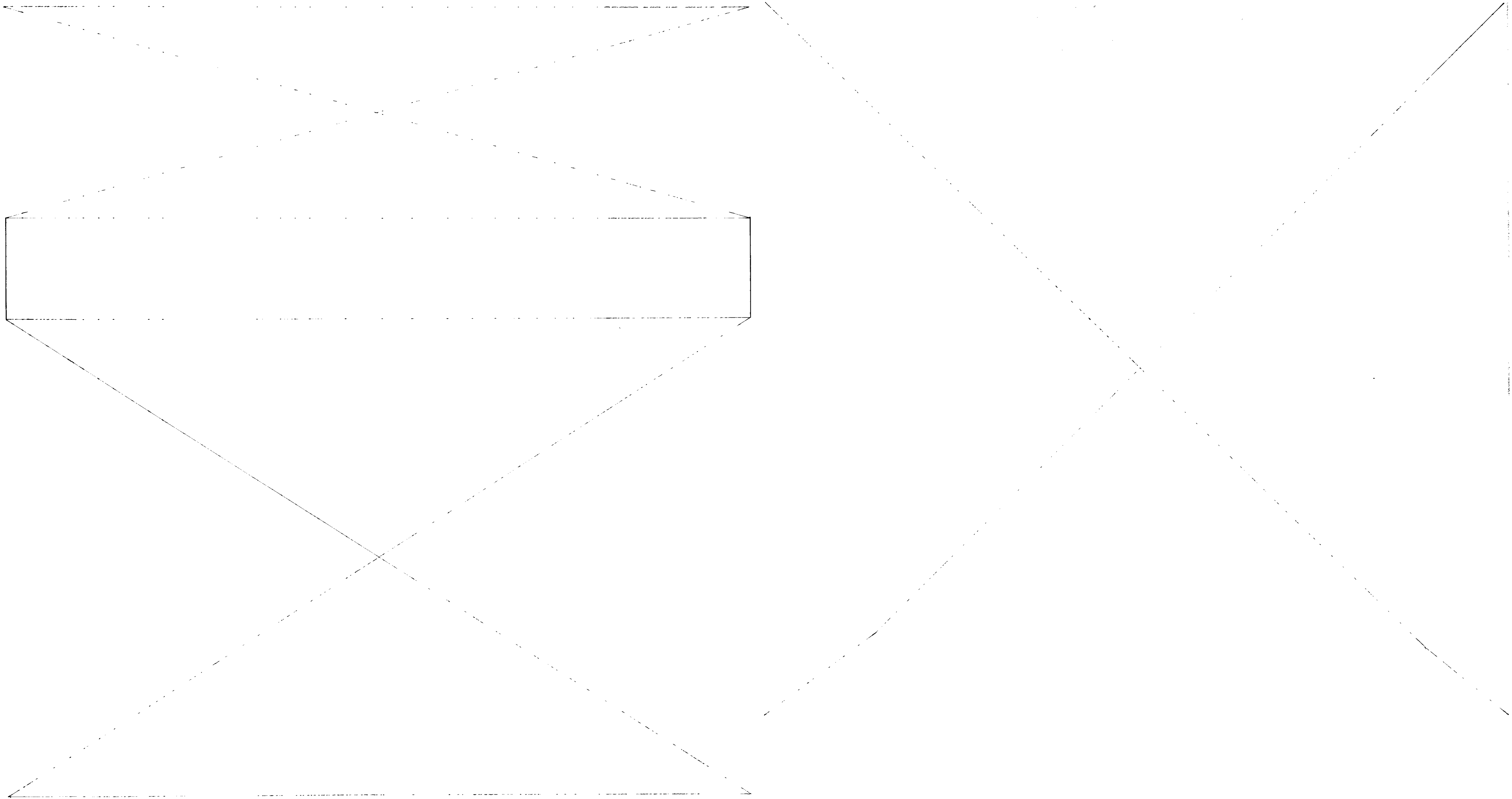
STRUCTURE DATA

ALL DIMENSIONS FOR ELECTRICITY OF METAL PIPE
DIMENSIONS AS SHOWN BELOW ARE TO BE USED

16 1988 43 145

SECTION
RIPRAP

SECTION
RIPRAP



* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

STRUCTURE DATA

* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-170-110	1988	44	145

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	GROUP	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE		CONCRETE CLASS #A	1/2" BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	PIPE END SECTION REINFE. STEEL	REMARKS			
										UP STREAM	DOWN STREAM				STEEL	ALUM.						
										ELEV.	ELEV.				CU. YDS.	CU. YDS.				FEET	EA.	LBS.
50	413+25.25A				36	A		230'		796.50	794.95			A	0.064	87	50	2				
51	422+10.2A				36	A		142'		786.87	786.56			A	0.064	66	50	2				
52	402+45.2A				12	A	Inlet, Type H-5	76'		793.51	791.01			A	0.064	95	5	1	Outlet To Lt Ditch			
53	402+95.2A				12	A	Inlet, Type H-5	68'		792.81	790.31			A	0.064	68	1		Outlet To Rt Ditch			
54	407+45.2A				12	A	Inlet, Type H-5	58'		793.11	789.61			A	0.064	38	1		Outlet To Lt Ditch			
55	409+95.2A				12	A	Inlet, Type H-5	92'		790.44	787.94			A	0.064	38	1		Outlet To Rt Ditch On "SER"			
56	411+55.25A				6	G	Drain tile C1 Std	9'		**	**											
57	412+40.2A				12	A	Inlet, Type H-5	112'		792.00	789.50			A	0.064	64	1		Outlet To Rt Ditch On "NER"			
58	412+30.25A				6	G	Drain tile C1 Std	9'		**	**											
59	412+50.25A				6	G	Drain tile C1 Std	9'		**	**											
60	412+80.2A				15	A	Inlet, Type P-12	70'		785.00	784.92			B	0.064				Connect To Structure No 61			
61	412+90.2A				15	G1	S.P.S. Min Area 71 Sft.	324'	2.0	763.00	762.50	6.26		A	0.064	5.5	00	2.3	Bury 3 Feet			
62	414+40.2A				15	A	Inlet, Type P-12	42'		786.67	787.59			B	0.064				Connect To Structure No 61			
63	415+40.2A				12	A	Inlet, Type H-5	76'		792.90	790.40			A	0.064	50	1		Outlet To Rt Ditch			
64	415+60.25A				15	D	Inlet, Type H-5	46'		789.20	786.88			B	0.064	0.064	4.3	2				
65	417+65.2A				12	G	Drain tile C1 Std	9'		**	**											
66	418+40.2A				12	A	Inlet, Type H-5	84'		793.80	791.30			A	0.064	75	1		Outlet To Lt Ditch			
67	420+50.2A				6	G	Drain tile C1 Std	9'		**	**											
68	421+40.2A				12	A	Inlet, Type H-5	62'		794.70	792.20			A	0.064	40	1		Outlet To Rt Ditch			
69	421+100.2A				12	A	Inlet, Type H-5	60'		795.60	793.10			A	0.064	42	1		Outlet To Lt Ditch			
70	427+40.2A				12	A	Inlet, Type H-5	58'		796.50	794.00			A	0.064	43			Outlet To Rt Ditch			
71	426+70.25A				15	D	Inlet, Type H-5	30'		795.77	795.66			A	0.064	0.064	4.3	2				
72	430+40.2A				12	A	Inlet, Type H-5	58'		797.40	794.90			A	0.064	83	5	1	Outlet To Lt Ditch			
73	433+20.2A				12	A	Inlet, Type H-5	58'		793.30	795.80			A	0.064	43	1		Outlet To Rt Ditch			
74	436+40.2A				12	A	Inlet, Type H-5	56'		799.20	796.70			A	0.064	68	1		Outlet To Lt Ditch			
75	439+40.2A				12	A	Inlet, Type H-5	58'		800.10	797.60			A	0.064	43	1		Outlet To Rt Ditch			
76	442+40.2A				12	A	Inlet, Type H-5	58'		801.01	798.50			A	0.064	42	1		Outlet To Lt Ditch			

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	GROUP	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE		GRATED BOX END SECTION TYPE	SLOPE	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	PIPE END SECTION REINFE. STEEL	REMARKS	
										UP STREAM	DOWN STREAM				STEEL	ALUM.				
										ELEV.	ELEV.				FEET	EA.				CYS.
77	442+40.2A				12	A	Inlet, Type H-5	54'		801.90	799.40			A	0.064	44	1		Outlet To Rt Ditch	
78	447+80.2A				8	A	Drain tile C1 Std	102'		**	**									
79	448+100.2A				12	A	Inlet, Type H-5	66'		802.00	800.50			A	0.064	62	1		Outlet To Lt Ditch	
80	454+40.2A				12	A	Inlet, Type H-5	70'		803.70	801.20	I	4.1	1	A	0.064	75		Outlet To Rt Ditch	
81	454+40.2A				12	A	Inlet, Type H-5	74'		804.50	802.10	I	4.1	1	A	0.064	83		Outlet To Lt Ditch	
82							Not Used													
83	457+40.2A				36	A		154'		807.00	796.80	I	4.1	2	A	0.064	63	50		
84	457+20.2A				10	G	Drain tile C1 Std	9'		**	**									
85	459+75.2A				12	A	Inlet, Type H-5	82'		804.95	802.45			A	0.064	87	5	1	Outlet To Rt Ditch	
86	462+75.2A				12	A	Inlet, Type H-5	78'		804.35	801.85	I	4.1	1	A	0.064	89	5	Outlet To Lt Ditch	
87	465+50.2A				12	A	Inlet, Type H-5	86'		803.80	801.30			A	0.064	85	5	1	Outlet To Rt Ditch	
88	468+70.2A				12	A	Inlet, Mod. Type H-5	88'		803.10	800.60			A	0.064	87	5	1	Outlet To Rt Ditch	
89	471+80.2A				12	A	Inlet, Mod. Type H-5	90'		802.54	800.04			A	0.064	85	5	1	Outlet To Rt Ditch	
90	474+90.2A				12	A	Inlet, Mod. Type H-5	90'		801.92	799.42			A	0.064	85	5	1	Outlet To Rt Ditch	
91	478+40.2A				12	A	Inlet, Mod. Type H-5	88'		801.30	798.80			A	0.064	86	5	1	Outlet To Rt Ditch	
92	478+85.2A				36	A		146'		793.19	792.93			A	0.064	55	50	2		
93	481+10.2A				12	A	Inlet, Mod. Type H-5	90'		798.68	796.18			A	0.064	72	1		Outlet To Rt Ditch	
94	484+10.2A				12	A	Inlet, Mod. Type H-5	86'		800.08	797.58			A	0.064	85	5	1	Outlet To Rt Ditch	
95	486+40.2A				12	G	Drain tile C1 Std	150'		**	**			B					Connect To Existing Tile	
96	487+20.2A				12	A	Inlet, Mod. Type H-5	82'		799.46	796.96			A	0.064	87	5	1	Outlet To Rt Ditch	
97	490+40.2A				12	A	Inlet, Type H-5	76'		798.50	796.00	I	4.1	1	A	0.064	60	5		Outlet To Lt Ditch
98	493+20.2A				12	A	Inlet, Type H-5	78'		797.90	795.40	I	4.1	1	A	0.064	81	5		Outlet To Rt Ditch
99	494+30.2A				36	A		140'		802.38	790.00	I	4.1	2	A	0.064	68	50		

LEGEND FOR ABBREVIATION

F.B.C.C.S./R.I.---FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.	F.B.C.S.A./R.I.---FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
F.B.C.C.A./A./P.I.---FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.	F.B.C.C.A.A./R.I.---FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH WITH PAVED INVERT.
F.B.C.C.S.-----FULLY BITUMINOUS COATED CORRUGATED STEEL.	F.B.C.C.A.-----FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
C.S.-----CORRUGATED STEEL.	F.B.C.C.A.A.-----FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH.
C.A./A.-----CORRUGATED ALUMINUM	C.S.A.-----CORRUGATED STEEL ARCH.
S.P.S.-----STRUCTURAL PLATE STEEL	C.A.A.-----CORRUGATED ALUMINUM ARCH.
	S.P.S.A.-----STRUCTURAL PLATE STEEL ARCH.

* Includes Equal Amount of 6" Type "P" Comp. App. for Base No 53

** Existing Flowline

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-170-110		44	145	

* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

STRUCTURE DATA

* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	IND.	F-170-170	1988	45	145

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE			GRATED BOX END SECTION TYPE SLOPE EA	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	REVEALMENT	PIPE END SECTION CONCRETE CLASS "A"	REMARKS	
									UP STREAM	DOWN STREAM	COVER			STEEL	ALUM.					
																				ELEV.
100	495+00.21	✓			6	Drain tile CI Std	9'			**	**									
101	496+00.21		✓		12	Inlet, Type H-5	74'		3.5	797.30	794.80	I 4:1	A	0064		7.9				Outlet To Lt Ditch
102	499+00.21		✓		12	Inlet, Type H-5	78'		4.5	796.70	794.20		A	0064		8.4	5	1		Outlet To Rt Ditch
103	102+00.25R*3	✓			24		80'		3.0	792.27	791.08		A	0064		9.0	5	2		Outlet To Lt Ditch Line "A"
104	502+00.21		✓		12	Inlet, Type H-5	70'		3.0	796.50	794.00	I 4:1	A	0064		7.2				Outlet To Lt Ditch
105	503+00.21	✓			6	Drain tile CI Std	9'			**	**									Outlet To Lt Ditch On "LSR#3"
106	505+00.21		✓		12	Inlet, Type H-5	78'		4.0	795.90	793.40	I 4:1	A	0064		8.6	5			Outlet To Rt Ditch
107	508+00.21		✓		12	Inlet, Type H-5	70'		4.0	795.30	792.80	I 4:1	A	0064		7.6				Outlet To Lt Ditch
108	511+00.21		✓		12	Inlet, Type H-5	76'		3.5	794.70	792.20	I 4:1	A	0064		8.6	5			Outlet To Rt Ditch
109	514+00.21		✓		12	Inlet, Type H-5	72'		3.5	794.10	791.60	I 4:1	A	0064		7.9				Outlet To Lt Ditch
110	517+00.21	✓			24	Drain tile CI Std	305'			**	**									Connect To Exist Tile Each End
111	517+00.21		✓		12	Inlet, Type H-5	88'		4.0	793.48	790.98		A	0064		8.1	5	1		Outlet To Rt Ditch
112	118+00.25R*3	✓			24		72'		3.0	787.20	786.03		A	0064		6.7	2			
113	520+00.21		✓		12	Inlet, Type H-5	84'		4.0	792.90	790.40		A	0064		7.6	1			Outlet To Lt Ditch
114	523+00.21		✓		12	Inlet, Type H-5	98'		4.5	792.30	789.80		A	0064		7.7	1			Outlet To Rt Ditch
115	526+00.21		✓		12	Inlet, Type H-5	90'		4.0	791.70	789.20		A	0064		7.4	1			Outlet To Lt Ditch
116	529+00.21		✓		12	Inlet, Type H-5	110'		3.0	791.10	788.60		A	0064		6.9	1			Outlet To Rt Ditch On "NWR"
117	532+00.21		✓		12	Inlet, Type H-5	66'		2.5	790.50	788.00	I 4:1	A	0064		6.6				Outlet To Lt Ditch
118	533+50.21	✓			36		194'		4.5	783.47	783.00	I 4:1	E	A	0064		6.7	50		
119	535+00.21		✓		12	Inlet, Type H-5	68'		2.5	789.90	787.40	I 4:1	A	0064		7.2				Outlet To Rt Ditch
120	137+00.25R*3	✓			24		56'		4.5	785.59	785.20		A	0064		6.4	2			
121	137+50.25R*3	✓			15	D	36'		4.0	784.92	784.83		B	0064	0060	4.1	2			
122	139+00.25R*3	✓			15	D	36'		4.0	785.47	785.38		B	0064	0060	4.1	2			
123	139+95.5-A	✓			6	Perf. FBCCS	104'							0052						By Others
124	138+88.5-A	✓			12	Inlet, Type D-6 Perf. FBCCS	72'							0064						By Others
125	51+115.5-A	✓			12	Inlet, Type D-6 Perf. FBCCS	70'							0064						By Others
126	51+055.5-A	✓			6	Perf. FBCCS	104'							0052						By Others
127	12+25.5NR*	✓			36		230'			783.00	782.88		A	0064		5.7	50	2		
128																				Not Used

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE			GRATED BOX END SECTION TYPE SLOPE EA	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	REVEALMENT	PIPE END SECTION CONCRETE CLASS "A"	REMARKS		
									UP STREAM	DOWN STREAM	COVER			STEEL	ALUM.						
																				ELEV.	ELEV.
129	59+85.5-A	✓			12	D	130'		1.5	787.54	787.26	II 6:1	2	B	0060	0060	3.2				
130	16+37.5-A	✓			48	A	202'			782.98	782.61		A	0064		4.2	80			283	
131	53+62.5-A	✓			36	A	295'		7.5	782.08	782.59		A	0064		6.2	50	2			
132	56+30.5-A	✓			10	Drain tile CI Std	9'			**	**										
133	56+70.5-A	✓			6	Drain tile CI Std	9'			**	**										
134	17+50.25R*3	✓			15	A	70'		1.5	787.99	787.02		A	0064		6.2	2				
135	60+90.5-A	✓			15	A	60'			790.71	790.11	II 6:1	2	A	0064		5.5				
136	53+00.21		✓		12	Inlet, Type H-5	56'		2.8	786.00	786.50	I 6:1	1	A	0064		4.1				Outlet To Rt Ditch
137	54+00.21		✓		12	Inlet, Type H-5	56'		2.8	786.70	786.20	I 6:1	1	A	0064		4.1				Outlet To Lt Ditch
138	8+85.5NR*	✓			36	A	140'		9'	785.85	782.15	I 4:1	1								G.B.C.S. Right on Lt of Line "NER"
139	6+20.5ER*	✓			36	A	208'			785.50	781.35	I 4:1	1								G.B.C.S. Right on Lt of Line "SER"
140	54+3+00.21		✓		12	Inlet, Type H-5	58'		2.8	786.00	785.80	I 6:1	1	A	0064		3.9				Outlet To Rt Ditch
141	54+5+00.21		✓		12	Inlet, Type H-5	112'		3.5	786.20	781.30		A	0064		7.2	1				Outlet To Rt Ditch On "NER"
142	9+10.5ER*	✓			6	Drain tile CI Std	9'			**	**										Connect To Exist Tile
143	54+0+59.21	✓			6	Perf. FBCCS	210'							0052							By Others
144	54+1+02.21	✓			6	Perf. FBCCS	192'							0052							By Others
145	54+0+00.21		✓		12	Inlet, Type H-5	98'		3.5	786.00	782.00		A	0064		7.9	1				Outlet To Rt Ditch
146	55+1+00.21		✓		12	Inlet, Type H-5	88'		4.0	787.40	782.68		A	0064		7.9	1				Outlet To Lt Ditch
147	55+2+90.21	✓			10	Drain tile CI Std	9'			**	**										Connect To Exist Tile
148	55+4+00.21		✓		12	Inlet, Type H-5	84'		3.0	788.00	783.96		A	0064		7.4	1				Outlet To Rt Ditch
149	55+6+180.21		✓		12	Inlet, Mod. Type H-5	82'		4.0	788.56	785.30		A	0064		7.2	1				Outlet To Rt Ditch
150	58+0+00.21		✓		12	Inlet, Mod. Type H-5	76'		3.5	789.20	786.12	I 4:1	1	A	0064		7.1				Outlet To Rt Ditch
151	58+3+00.21		✓		12	Inlet, Mod. Type H-5	74'		4.0	789.80	785.40	I 4:1	1	A	0064		8.2	5			Outlet To Rt Ditch
152	58+6+00.21		✓		12	Inlet, Mod. Type H-5	80'		4.0	790.40	784.08	I 4:1	1	A	0064		8.8	5			Outlet To Rt Ditch
153	58+9+00.21		✓		12	Inlet, Type H-5	86'		4.0	791.00	783.78		A	0064		9.3	5	1			Outlet To Lt Ditch

LEGEND FOR ABBREVIATION

FBCCS/R.I.---FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.	FB.CS.A./R.I.---FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
FB.CC.A.A./R.I.---FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.	FB.CC.AA./R.I.---FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH WITH PAVED INVERT.
FBCCS-----FULLY BITUMINOUS COATED CORRUGATED STEEL.	FBCCA-----FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
C.S.-----CORRUGATED STEEL.	FBCCAA-----FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH.
C.A.A.-----CORRUGATED ALUMINUM	C.S.A.-----CORRUGATED STEEL ARCH.
S.P.S.-----STRUCTURAL PLATE STEEL	C.A.A.A.-----CORRUGATED ALUMINUM ARCH.
	S.P.S.A.-----STRUCTURAL PLATE STEEL ARCH.

* Include Equal Amount of 6" Type "P" Comp. Agg. For Base. No 53

RE DATA

CONTRACT NO. 100-1-100-100
SECTION NO. 100-1-100-100

10 1988 46 145

GRATED
BOX END
SECTION
TYPE B10P, EA.

REVEALMENT
RIPRAP #

CY CONCRETE
B. CLASS "A"

REVEALMENT
RIPRAP #



167

170

0

10 1988 46 145

FEDERAL ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
5	IND.	F-170-1(16)	1985	47/14

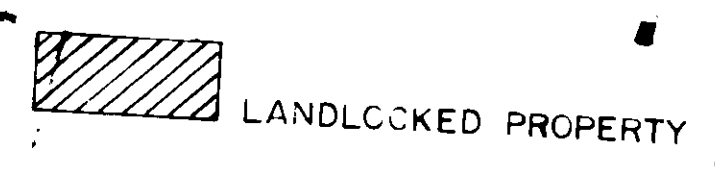


SECTION 21

INDEX	OWNER
1	DAVID W & MARJORIE L. RUDNY
2	DAVID P & DONNA S. GRUSS
3	WALDO & THERESA J. STEVENS
4	RAYMUND F & JUANITA A. MATTE
5	RAYMOND W & MARILYN R. SORG
6	JACOB J & ALICE M. HARBER

SECTION 22

INDEX	OWNER
1	HERMAN & JEANETTE OSTERHOLT
2	ST. ALOYSIUS CHURCH & SCHOOLS DIOCESE OF FT. WAYNE - SOUTH BEND



RIGHT-OF-WAY PLAT #3
PROJECT F-PROJECT 170-1(16)

MOSAIC SCALE 1" = 400' SHEET 1 OF 3
DATE OF PHOTOGRAPHY
SOURCE
UNCONTROLLED PHOTO MOSAIC
INDIANA STATE HIGHWAY COMMISSION
BUREAU OF PHOTOGRAMMETRIC & ELECTRONIC PROCESSES



SECTION 23

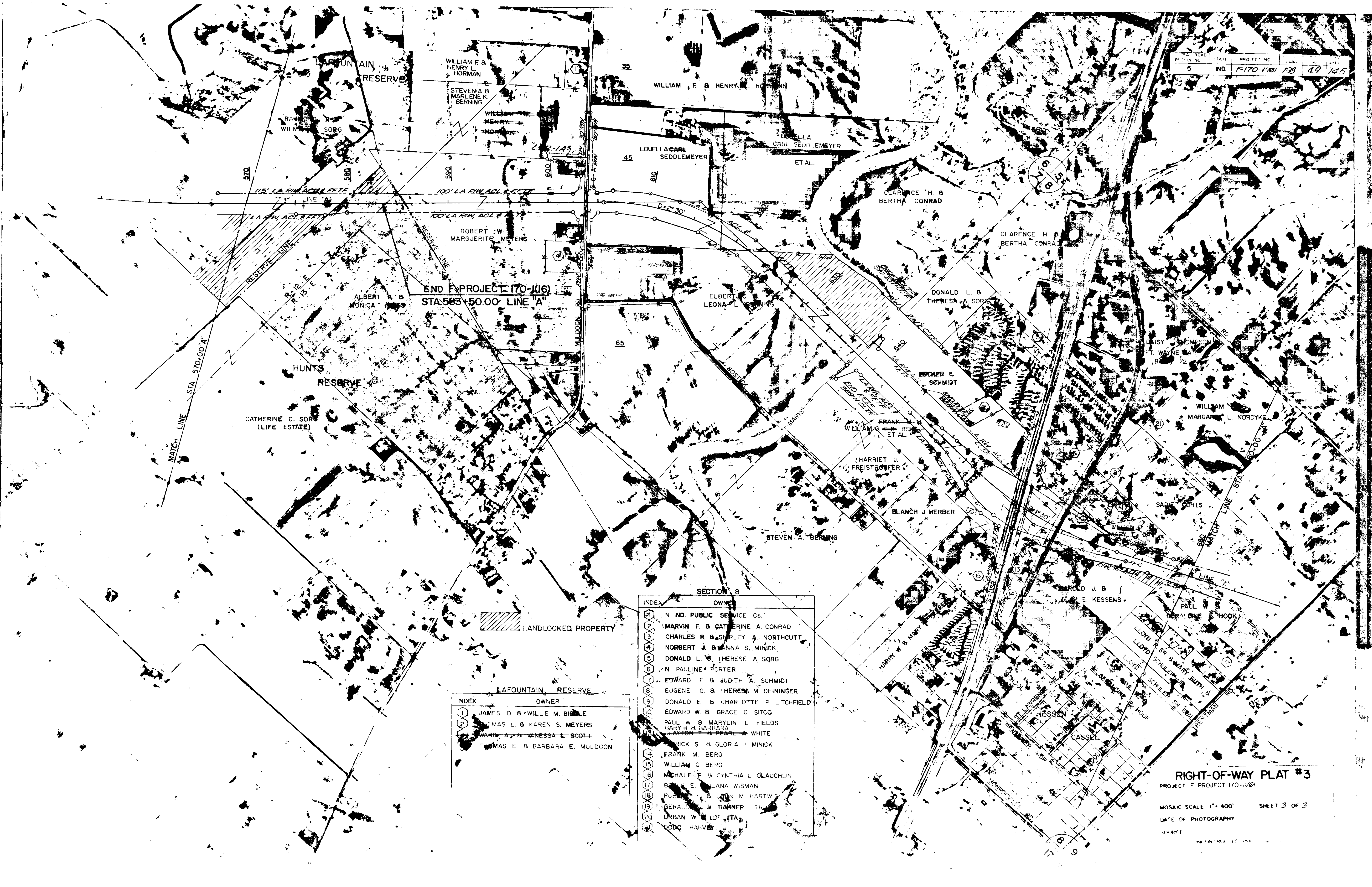
INDEX	OWNER
1	VERNOVE & DOROTHY A LAHRMAN
2	VIOLET G. KING
3	DENNIS K & KAY S BUCKMASTER
4	ROBERT R. HERSHA
5	ST. MARKS LUTHERN CHURCH INC.
6	DONALD L. & TONNA S. THIELE
7	DONALD L. & TONNA S. THIELE

SECTION 13

INDEX	OWNER
1	ROBERT H. SWARTZ ET UX.
2	PAUL H. SWARTZ ET UX.
3	JEAN M. WISE
4	LAWRENCE & ANNETT KAPP
5	JACK L. & BETTY L. BAKER
6	ROBERT B. & SHARON A. KIEFER

RIGHT-OF-WAY PLAT #3
 PROJECT: F-PROJECT 170-1161
 MOSAIC SCALE 1" = 400'
 SHEET 2 OF 3
 DATE OF PHOTOGRAPHY:
 SOURCE:
 UNCONTROLLED PHOTO MOSAIC
 INDIANA STATE HIGHWAY COMMISSION
 BUREAU OF PHOTOGRAMMETRIC & ELECTRONIC PROCESSES

LANDLOCKED PROPERTY



END PROJECT 170-1161
STA 583+50.00 LINE "A"

LANDLOCKED PROPERTY

LAFOUNTAIN RESERVE

INDEX	OWNER
1	JAMES D. & WILLIE M. BIDDLE
2	TOMAS L. & KAREN S. MEYERS
3	WARD, A. & VANESSA L. SCOTT
4	TOMAS E. & BARBARA E. MULDOON

SECTION 8

INDEX	OWNER
1	N. IND. PUBLIC SERVICE Co.
2	MARVIN F. & CATHERINE A. CONRAD
3	CHARLES R. & SHARLEY A. NORTHCUTT
4	NORBERT J. & ANNA S. MINICK
5	DONALD L. & THERESA A. SORG
6	N. PAULINE PORTER
7	EDWARD F. & JUDITH A. SCHMIDT
8	EUGENE G. & THERESA M. DEININGER
9	DONALD E. & CHARLOTTE P. LITCHFIELD
10	EDWARD W. & GRACE C. SITCO
11	PAUL W. & MARYLIN L. FIELDS
12	GARY R. & BARBARA J.
13	CLAYTON T. & PEARL A. WHITE
14	FRICK S. & GLORIA J. MINICK
15	FRANK M. BERG
16	WILLIAM G. BERG
17	MICHAEL P. & CYNTHIA L. OLAUCHLIN
18	ELLEN E. & LANA WISMAN
19	ROBERT F. & DON M. HARTWIG
20	GERALD W. BANNER TH
21	URBAN W. LDF. STA
22	LODQ HARVE

RIGHT-OF-WAY PLAT #3
PROJECT F-PROJECT 170-1161

MOSAIC SCALE 1" = 400'
SHEET 3 OF 3
DATE OF PHOTOGRAPHY
SOURCE

ESTIMATE OF QUANTITIES

GRADING				PAVEMENT				MISCELLANEOUS							
CODE NO.	DESCRIPTION	UNIT	QUANTITY	CODE NO.	DESCRIPTION	UNIT	QUANTITY	CODE NO.	DESCRIPTION	UNIT	QUANTITY	CODE NO.	DESCRIPTION	UNIT	QUANTITY
01001	MOBILIZATION AND DEMOBILIZATION FOR SEEDING	L.S.	1	04011	PORTLAND CEMENT CONCRETE FOR PATCHING REINFORCED CONCRETE PAVEMENT	SYS		06395	RIPRAP	SYS		06620	STANDARD BARRICADE, TYPE I	EACH	
01004	SURFAC M. LING, B.U. L. OUS	SYS	61	04012	PORTLAND CEMENT CONCRETE FOR PATCHING CONTINUOUS REINFORCED CONCRETE PAVEMENT	SYS		06400	DUMPED RIPRAP	TON		06621	STANDARD BARRICADE, TYPE II	EACH	
01002	CLEARING RIGHT-OF-WAY	L.S.	1	04010	PORTLAND CEMENT CONCRETE FOR PATCHING	SYS		06401	DUMPED RIPRAP	TON		06605	STANDARD BARRICADE, TYPE III-A	EACH	16
02240	REMOVAL OF PAVEMENT	SYS		04272	BITUMINOUS MIXTURE FOR WEDGE AND LEVEL	TON		06405	REVELMENT RIPRAP	TON	635	06606	STANDARD BARRICADE, TYPE III-B	EACH	
02241	REMOVAL OF GUARD RAIL	LFT		04335	FILLING CRACKS & JOINTS IN CONCRETE PAVEMENT OR BASE	TON		06410	HAND-LAID RIPRAP 6 INCH	SYS		06608	PERMANENT BARRICADE, TYPE IIIA	EACH	8
02271	REMOVAL OF HEADWALL	EACH		04345	SEALING CRACKS & JOINTS IN BITUMINOUS PAVEMENT	TON		06415	HAND-LAID RIPRAP 12 INCH	SYS		06609	PERMANENT BARRICADE, TYPE IIIB	EACH	4
02272	REMOVAL OF PAVED SIDE DITCH	LFT		04305	DRILL HOLES FOR UNDERSEAL	EACH		06455	SLOPEWALL	SYS		06640	CONSTRUCTURE SIGN, TYPE "A"	EACH	59
02278	REMOVAL OF CONCRETE CURB	LFT		04315	ASPHALT MATERIAL FOR UNDERSEAL	TON		06460	CONCRETE SLOPEWALL 4 INCH	SYS		06645	CONSTRUCTURE SIGN, TYPE "B"	EACH	41
02273	REMOVAL OF CONCRETE CENTER CURB	SYS		04365	BITUMINOUS MATERIAL FOR PRIME COAT	TON	796	06465	CONCRETE SLOPEWALL 5 INCH	SYS		76000	TYPE "A" SIGN FACE	SFT	
02274	REMOVAL OF INTEGRAL CONCRETE CURB	LFT		04375	BITUMINOUS MATERIAL FOR TACK COAT	TON	2446	06470	CONCRETE HEADER, TYPE "A"	LFT		76005	TYPE "B" SIGN FACE	SFT	
02275	REMOVAL OF SIGN AND SUPPORTS (WIDE FLANGE)	EACH		04344	SPECIAL JOINT PATCHING, TYPE I	TON		06475	CONCRETE HEADER, TYPE "B"	LFT	13,273	76010	PANEL SIGN - TYPE I WITH LEGEND	SFT	
02286	REMOVAL OF PRESENT STRUCTURE	EACH		04346	SPECIAL JOINT PATCHING MATERIAL	TON		06480	CONCRETE HEADER, TYPE "C"	LFT		76015	PANEL SIGN - TYPE II WITH LEGEND	SFT	
02236	REMOVAL OF SURFACE	SYS		04347	SEAL COAT, TYPE 1	SYS	7,811	06481	CEMENT CONCRETE HEADER	LFT		76020	SHEET SIGNS-TYPE I WITH LEGEND (0.80 IN THICKNESS)	SFT	10
05440	CONCRETE SCARIFYING	SYS		04350	SEAL COAT, TYPE 4	SYS	5,422	06485	RECONSTRUCTED CONCRETE	LFT		76025	SHEET SIGNS-TYPE II WITH LEGEND (0.80 IN THICKNESS)	SFT	38.9
06716	REMOVAL OF PAINTED LINE (SOLID - 4 IN)	LFT		04400	PORTLAND CEMENT CONCRETE BASE	SYS		06488	CONCRETE HEADER, TYPE "D"	SYS		76030	SHEET SIGNS-TYPE I WITH LEGEND (0.100 IN THICKNESS)	SFT	36.0
06718	REMOVAL OF PAINTED LINE (SKIP - 4 IN)	LFT		04405	TYPE "P" COMPACTED AGGREGATE FOR BASE	TON	5702	06490	RIGHT-OF-WAY MARKER	EACH	35	76035	SHEET SIGNS-TYPE II WITH LEGEND (0.100 IN THICKNESS)	SFT	97.9
06727	REMOVAL OF PAINTED LINE	LFT		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06495	RESET RIGHT-OF-WAY MARKER	EACH		76040	SHEET SIGNS-TYPE I WITH LEGEND (0.125 IN THICKNESS)	SFT	
06728	REMOVAL OF THERMOPLASTIC PAVEMENT MARKS	LFT		04406	BITUMINOUS STABILIZED SUBBASE	TON		06500	MONUMENT, TYPE "A"	EACH		76045	SHEET SIGNS-TYPE II WITH LEGEND (0.125 IN THICKNESS)	SFT	
03000	REMOVAL OF HOUSES & BUILDINGS FROM PARCEL ()	L.S.		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06505	MONUMENT, TYPE "B"	EACH	10	76055	TYPE "A" POSTS	LFT	546
03000	REMOVAL OF HOUSES & BUILDINGS FROM PARCEL ()	L.S.		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06510	MONUMENT, TYPE "C"	EACH	1	76060	TYPE "ADD" POSTS	LFT	
02235	BREAKING PAVEMENT	SYS		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06515	MONUMENT, TYPE "D"	EACH		76055	TYPE "B" POSTS	LFT	
02000	COMMON EXCAVATION	CYS	169,814	04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06520	CASTING ADJUSTED TO GRADE, MONUMENT	EACH		76075	TYPE "C" POSTS	LFT	
02020	UNCLASSIFIED EXCAVATION	CYS		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06525	RE-ESTABLISHED MONUMENT	EACH		06710	FLASHING ARROW SIGN	DAY	
02045	EXCAVATION FOR SUBGRADE TREATMENT	CYS	4701	04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06526	CASTING ADJUSTED TO GRADE, MONUMENT	EACH		06708	TEMPORARY CROSSOVER TYPE "A"	EACH	
02046	GRADING OF GORE AREA	EACH		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06527	RE-ESTABLISHED MONUMENT	EACH		06709	TEMPORARY CROSSOVER TYPE "B"	EACH	
02047	GRADING OF RAMP EXTENSIONS	EACH		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06530	BENCH-MARK POST	EACH		06711	LINE PAINT, BROWN WHITE 4 INCH	LFT	6,675
02051	NO. 2 STONE	TON		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06535	RESET BENCH-MARK POST	EACH		06712	LINE PAINT, BROWN YELLOW 4 INCH	LFT	1,038
02055	EMBANKMENT	CYS		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06540	AGRICULTURAL LIMESTONE	TON	18.23	06713	LINE PAINT, BLACK WHITE 4 INCH	LFT	47,497
02061	PLOWING	ACRE		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06545	FERTILIZER	TON	14.30	06714	LINE PAINT, SOLID WHITE 4 INCH	LFT	3,993
02080	LINEAR GRADING	MI		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06553	SEED MIXTURE "R"	LBS	3,573	06695	LINE, SOLID WHITE 5 INCH	LFT	
02070	BORROW	CYS	239,564	04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06554	SEED MIXTURE "U"	LBS		06696	LINE, SKIP WHITE 5 INCH	LFT	2,612
02050	"B" BORROW	CYS	1,000*	04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06555	SEED MIXTURE "P"	LBS	57	06731	TEMPORARY PAVEMENT MARKING TYPE I	LFT	
02060	"B" BORROW FOR STRUCTURE BACKFILL	CYS	500*	04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06558	SEED MIXTURE "CV"	LBS	337	06715	TEMPORARY PAVEMENT MARKING (PAINT)	LFT	
02290	SETTLEMENT PLATES	EACH		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06565	MULCHING MATERIAL	TON	71.92	06732	TEMPORARY PAVEMENT MARKING TYPE II	LFT	
02305	GABIONS	CYS		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06551	MULCHING MATERIAL (WOOD CELLULOSE FIBER)	TON		06701	THERMOPLASTIC LINE, SKIP WHITE 4 INCH	LFT	
02310	PLASTIC FILTER CLOTH	SYS	635	04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06567	WATER TOP SOIL	MG	49.5	75240	THERMOPLASTIC LINE SKIP YELLOW 4 INCH	LFT	1,038
06772	STRAW BALES	EACH	32	04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06570	SODDING	SYS		75201	THERMOPLASTIC LINE SKIP WHITE 5 INCH	LFT	
02052	WATER FOR SHALE	MG		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06575	SODDING (NURSERY) SEEDLING	SYS	12,403	75297	THERMOPLASTIC SPECIAL MARKING, STOP LINE 24 INCH	LFT	60
02062	WATER FOR PLOWING	MG		04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06600	STEEL (CONDUIT) 2 INCH	LFT	400	75300	THERMOPLASTIC SPECIAL MARKING, CROSSWALK LINE 6 INCH	LFT	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06602	STEEL (CONDUIT) 3 INCH	LFT		06725	DELINEATOR WITH POST TYPE D-I 3 INCH	EACH	64
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06605	P.V.C. (CONDUIT) 2 INCH	LFT		06740	DELINEATOR WITH POST TYPE D-2 3 INCH	EACH	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06608	P.V.C. (CONDUIT) 3 INCH	LFT		06755	DELINEATOR WITH POST TYPE D-3 3 INCH	EACH	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06618	HANDHOPE	EACH		06770	DELINEATOR POST	EACH	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06618	RUMBLE STRIP	LFT		06771	FLEXIBLE DELINEATOR POST	EACH	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06620	CONCRETE FOR SHOULDER CONSTRUCTION (UT. L.E)	SYS	37,333	06729	WIDE ANGLE REFLECTORS	EACH	664
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06620	CONCRETE SHOULDER CONSTRUCTION (INSIDE)	SYS	29,392	75998	SNOWPLOWABLE REFLECTIVE PAVEMENT MARKER	EACH	509
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06620	CONCRETE SHOULDER CONSTRUCTION (INSIDE)	SYS	29,392	06649	TEMPORARY RAISED PAVEMENT MARKERS FURNISHED	EACH	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06620	CONCRETE SHOULDER CONSTRUCTION (INSIDE)	SYS	29,392	06650	TEMPORARY RAISED PAVEMENT MARKERS INSTALLED	EACH	4
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06620	CONCRETE SHOULDER CONSTRUCTION (INSIDE)	SYS	29,392	06380	PAVED SIDE DITCH, TYPE "K"	LFT	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06620	CONCRETE SHOULDER CONSTRUCTION (INSIDE)	SYS	29,392	06385	PAVED SIDE DITCH, TYPE "L"	LFT	
				04405	TYPE "O" COMPACTED AGGREGATE FOR BASE	TON		06620	CONCRETE SHOULDER CONSTRUCTION (INSIDE)	SYS	29,392				

