

DESIGNED: CONSULTANT & INGLETON
CHECKED: RUMLEY
SURVEY NO.

INDEX OF SHEETS

I-40-6(25)268 PAVING

SHEET NO.	DESCRIPTION
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2-2A	TYPICAL CROSS-SECTIONS OF IMPROVEMENT
2B-2C	ESTIMATED ROADWAY QUANTITIES AND DETAILS
* 3-31	PLAN & PROFILE
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33	CONCRETE ENDWALLS (12" TO 30") DROP INLETS AND SPRING DRAIN, DWG. NO. D-O-13.
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* SHT. NO. 3 IS FILED UNDER PROJECT I-40-G(5)268, FILE IN-11 (ORIGINAL SHEET NO. 6A).

SHT. NO. 14 THRU 21 IS FILED UNDER PROJECT I-40-G(22)271, FILE IN-38. (ORIGINAL SHT. NO. 3A & B THRU 6A & B).

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF HIGHWAYS DATED JULY 1, 1951, (SUPPLEMENT DATED AUG. 1, 1960), & ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

NOTE REGARDING CONSTRUCTION IDENTIFICATION SIGNS:

FOUR (4) CONSTRUCTION IDENTIFICATION SIGNS SHALL BE ERECTED ON THIS PROJECT AT LOCATIONS DESIGNATED ON THIS SHEET BY THIS SYMBOL: . FOR DETAILS SEE DWG. NO. RD-S-1 (3 SHEETS).

TRAFFIC NOTE:

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN TRAFFIC ON ALL FRONTAGE ROADS AND CROSS ROADS DURING CONSTRUCTION OF THIS PROJECT.

CONVENTIONAL SIGNS

COUNTY LINE	-----
CITY VILLAGE OR BOROUGH	-----
CULVERTS	=====
POWER POLE	-----
TELEPHONE OR TELEGRAPH POLE	-----
FENCE LINE	-----
GUARD RAIL	-----
UNFENCED PROPERTY	-----
RIGHT OF WAY LINE	-----
TRAVELED WAY	=====
RAILROAD	-----
RETAINING WALL	-----
BASE OR SURVEY LINE	-----
DROP INLET	-----
BRIDGE OVER 20 FT. SPAN	-----

SPECIAL NOTE:

THE GRADING AND DRAINAGE FOR PROJECT I-40-G(22)271 IS NOW UNDER CONSTRUCTION AND IS NOT EXPECTED TO BE COMPLETED AT THE TIME BIDS ARE RECEIVED FOR THIS PROJECT. THE CONTRACTOR FOR THIS PROJECT, I-40-G(25)268 PAVING, WILL NOT BE ALLOWED EXTRA COMPENSATION FOR DAMAGES OR DELAYS DUE TO CONSTRUCTION OF I-40-G(22)271 NOT BEING COMPLETED.

STATE OF TENNESSEE

DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT NO. I-40-6(25)268

1ST STAGE PAVING

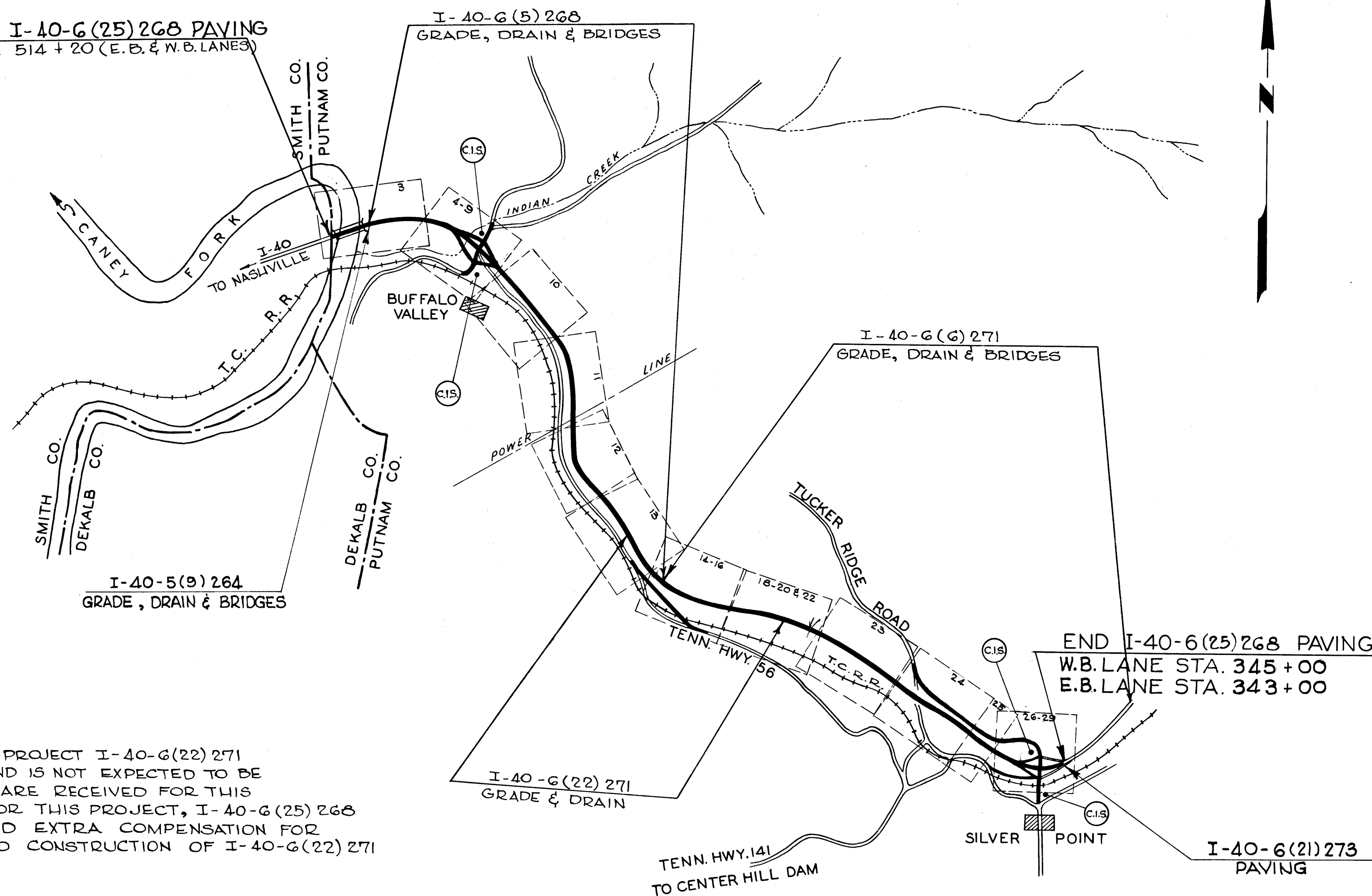
PUTNAM COUNTY

FROM SMITH-PUTNAM COUNTY LINE NEAR BUFFALO VALLEY TO EAST OF S.R. 58 CONNECTION AT SILVER POINT

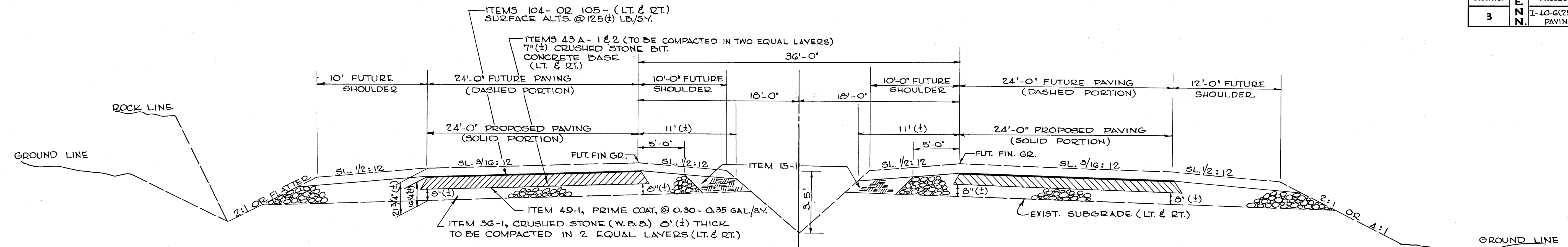
INTERSTATE HIGHWAY NO. 40 F.A.H.S. NO.

SCALES { PLAN, 1 IN.=100 FT.
PROFILE, HOR. 1 IN.=100 FT., VERT. 1 IN.=10 FT.

BEGIN I-40-G(25)268 PAVING
STA. 514+20 (E.B. & W.B. LANES)

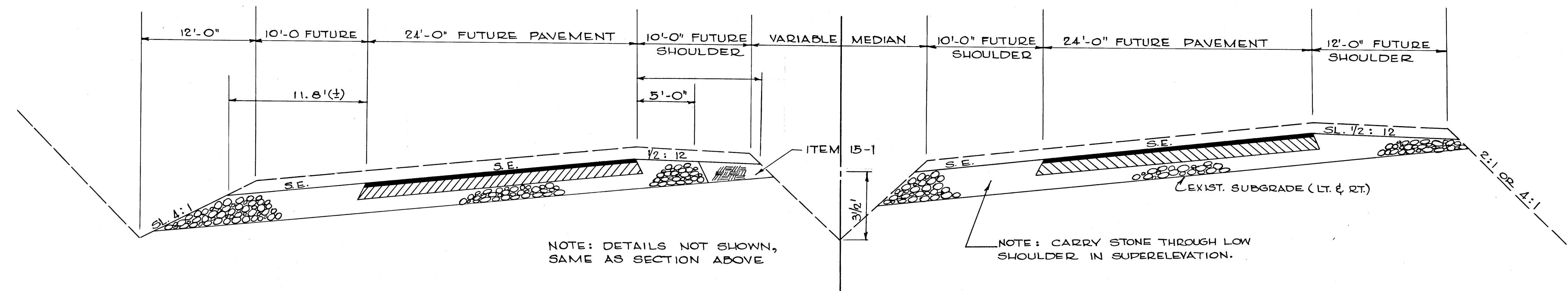


FED. ROAD DIST. NO.	TENN.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	I-40-G(25)260 PAVING	19. GR	2	41



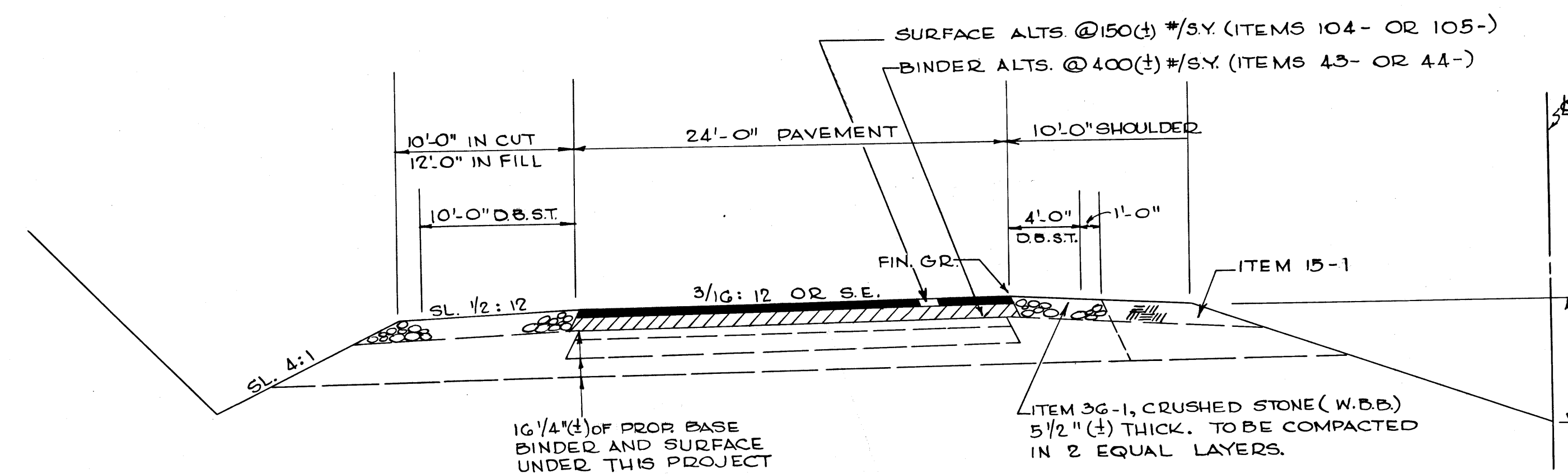
TYPICAL TANGENT SECTION, 36' MEDIAN

NOTE: BASE AND SHOULDERS TO BE CONSTRUCTED LAYER BY LAYER SIMULTANEOUSLY.



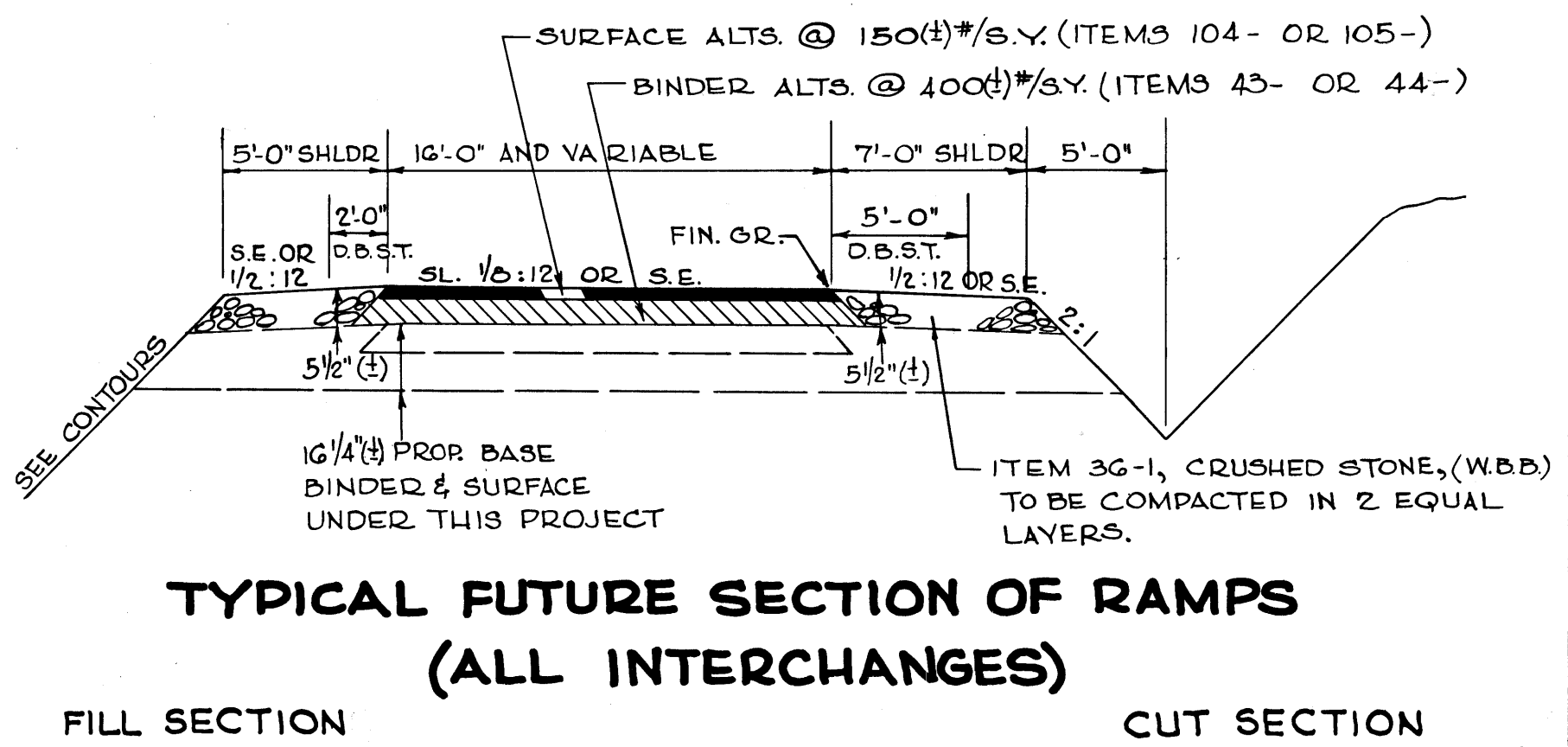
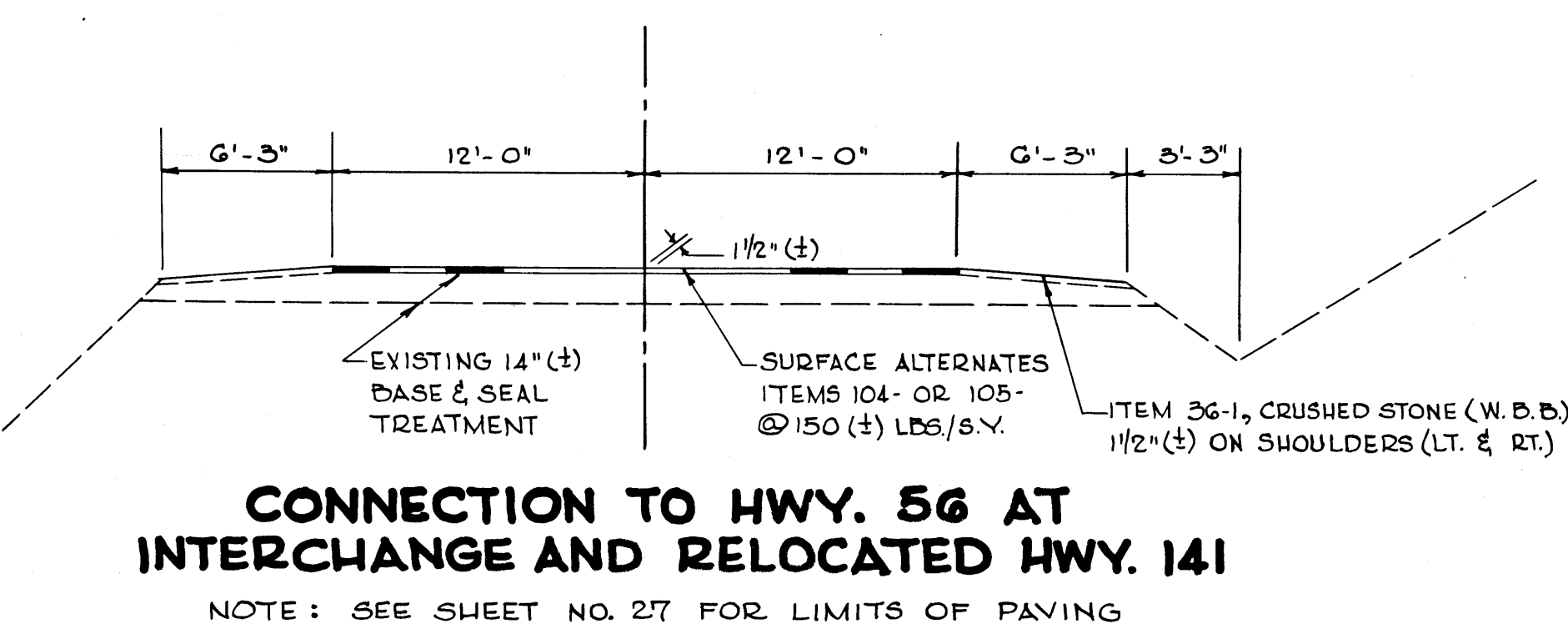
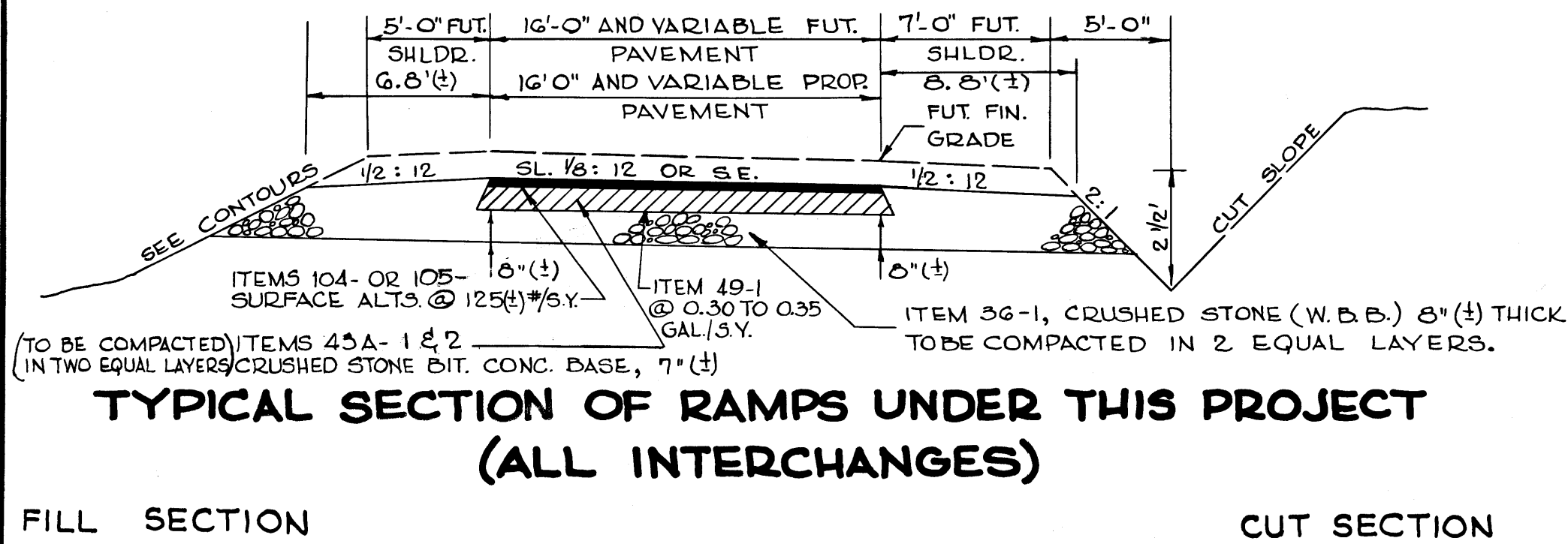
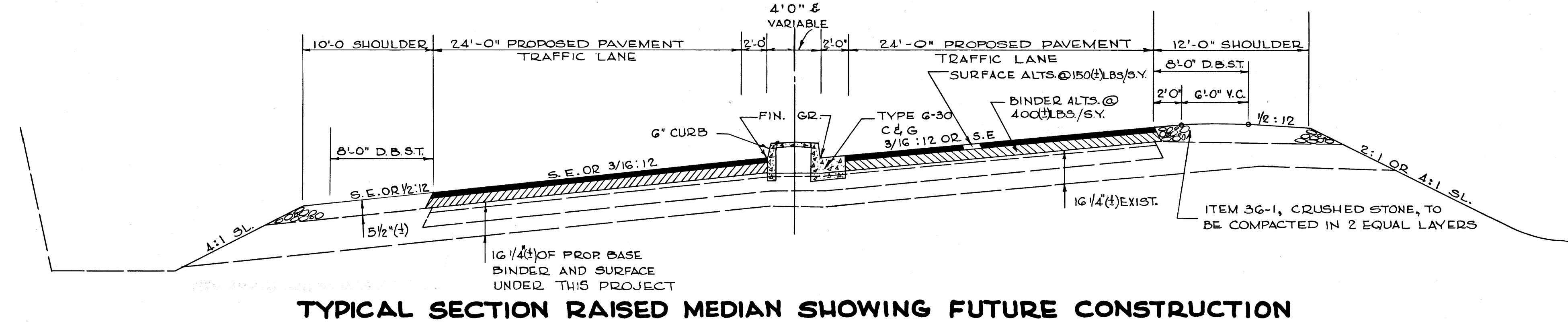
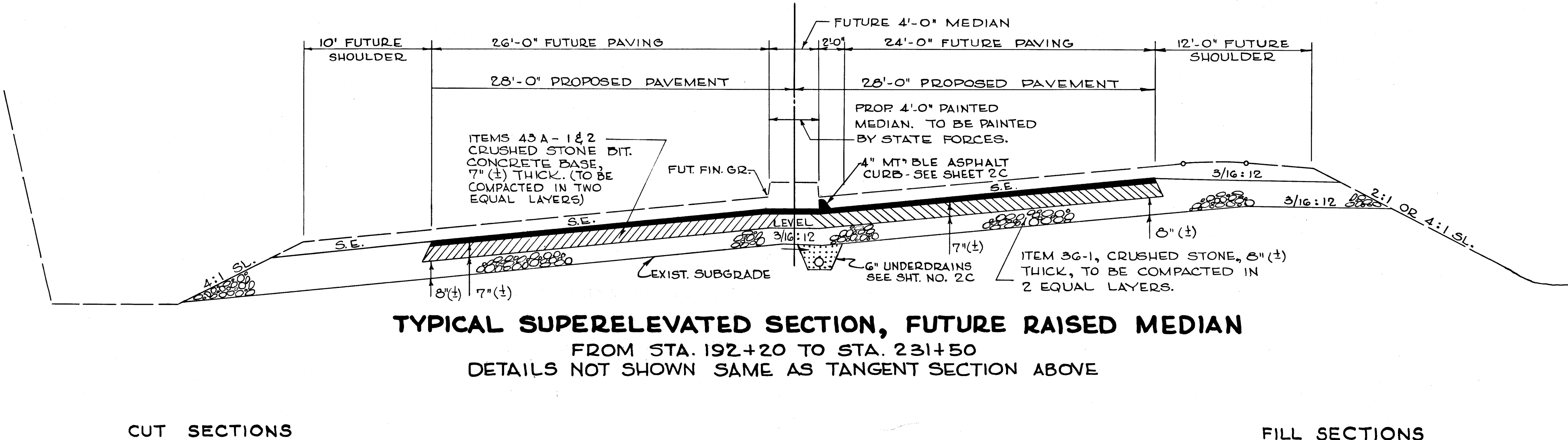
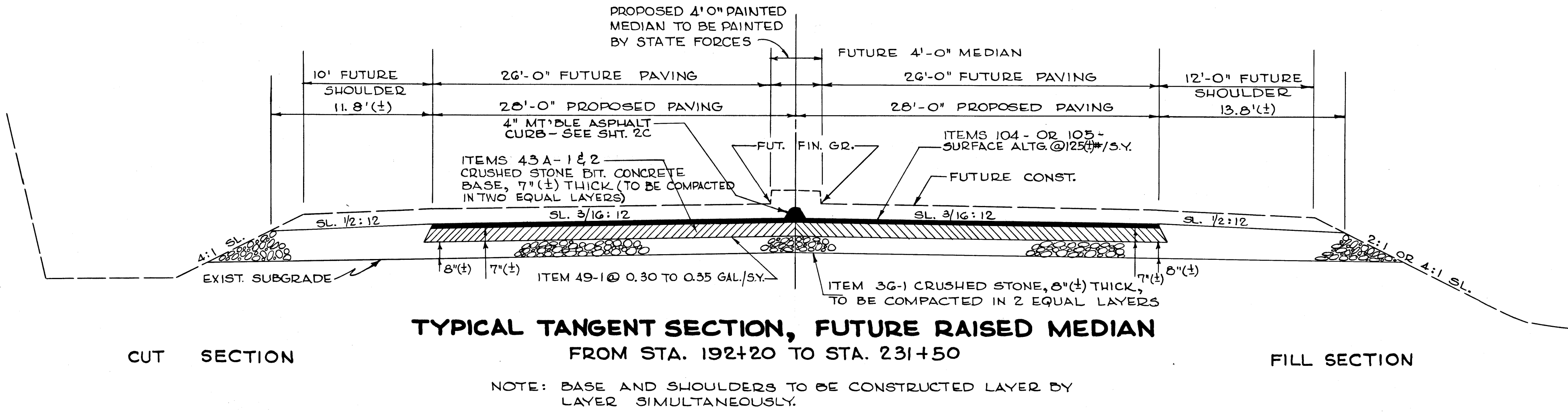
TYPICAL SUPERELEVATED SECTION DIVIDED MEDIAN

NOTE: SEE GENERAL NOTES CONCERNING TOPSOIL AND SEEDING.



TYPICAL HALF SECTION SHOWING FUTURE CONSTRUCTION

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-G(25)268 PAVING	18 62	2A	41



SURFACE ALTERNATES

SURFACE ALTERNATES

- SURFACE ALTERNATES

SURFACE ALTERNATES

SURFACE ALTERNATES

SURFACE ALTERNATES

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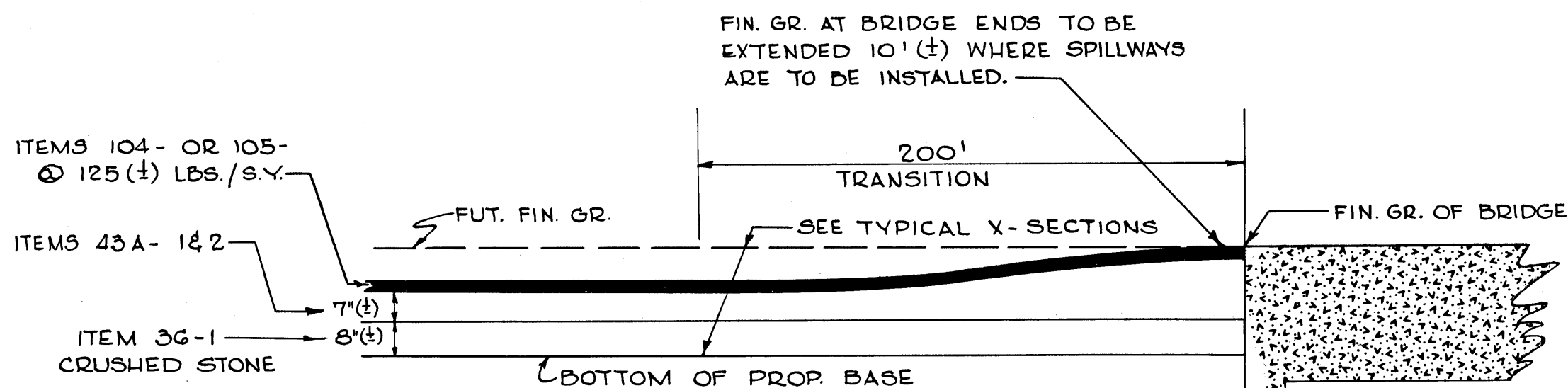
SURFACE ALTERNATES

BRIDGE SPILLWAYS

	FROM		TO		8" C.M. PIPE	GRADE %	DRAWING NUMBER	CLASS "A" CONC. (CY.)	REINF. STEEL (LBS)
	LOC.	ELEV.	LOC.	ELEV.					
BQ#1 CANEY FORK R. & INDIAN CREEK	RT. E.B.L. STA. 518+50	517.1	RT.	507.0	80'	12.62	P-S-9	1.33	66
	LT. W.B.L. STA. 518+50	517.1	LT.	507.0	70'	14.42	P-S-9	1.33	66
BQ#2 INDIAN CREEK	RT. W.B.L. STA. 51+50	529.2	50+20 RT. #31 C.B.	523.7			P-S-9	1.00	52
	RT. E.B.L. STA. 49+95	527.0	49+05 RT. #31 C.B.	527.0			P-S-9	1.00	52
BQ#3 I-40 OVER BUFFALO VALLEY ROAD	RT. W.B.L. STA. 59+10	533.5	58+95 RT. #31 C.B.	528.1			P-S-9	1.00	52
	RT. E.B.L. STA. 59+10	528.5	58+95 RT. #31 C.B.	527.0			P-S-9	1.00	52
TOTALS					150'			6.66	340

NOTE: THE ABOVE QUANTITIES ARE FOR ALL BRIDGES REQUIRING SPILLWAYS.

THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT SPILLWAYS, ONLY ON BRIDGES WHICH HAVE NOT HAD SPILLWAYS CONSTRUCTED ON A PREVIOUS PROJECT.

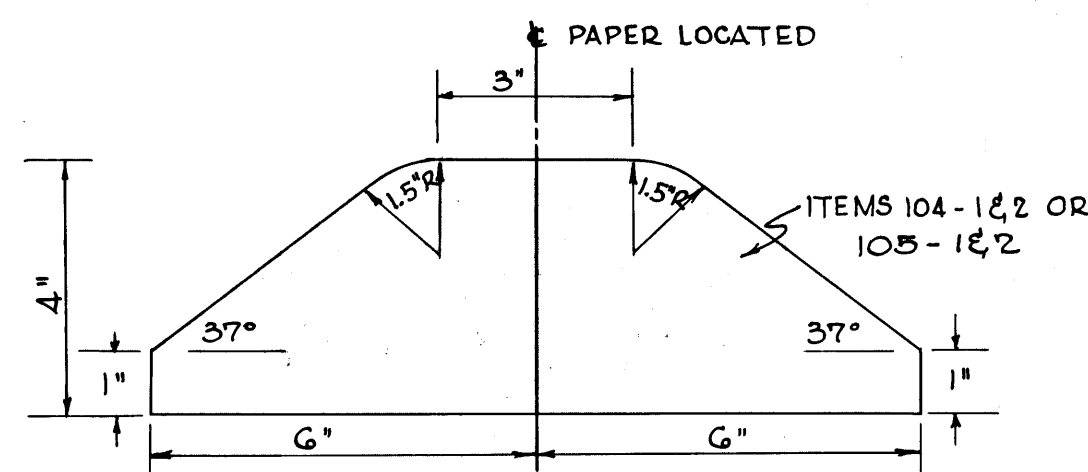


DETAIL SHOWING ADJUSTMENT OF GRADE AT BRIDGE ENDS ON I-40

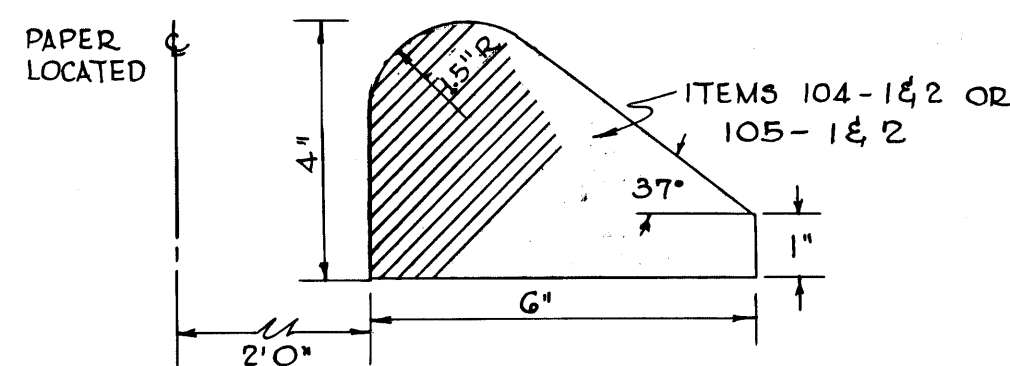
NOTE: PAVEMENT AT BRIDGE ENDS TO FOLLOW NORMAL PAVEMENT WIDTHS AND ARE NOT TO BE FLARED.

NOTE: ADJUST GRADE WITH ITEMS 43A- 1 1/2 2

EXISTING AREA AT BRIDGE ENDS TO BE TRENCHED AND REMOVED TO NORMAL SUBGRADE. COST TO BE INCLUDED IN UNIT PRICE BID FOR ITEM 13-3, PER CU. YD. (SEE GENERAL NOTES)



ASPHALT CURB FOR TANGENT SECTIONS (NARROW MEDIAN SECTION)

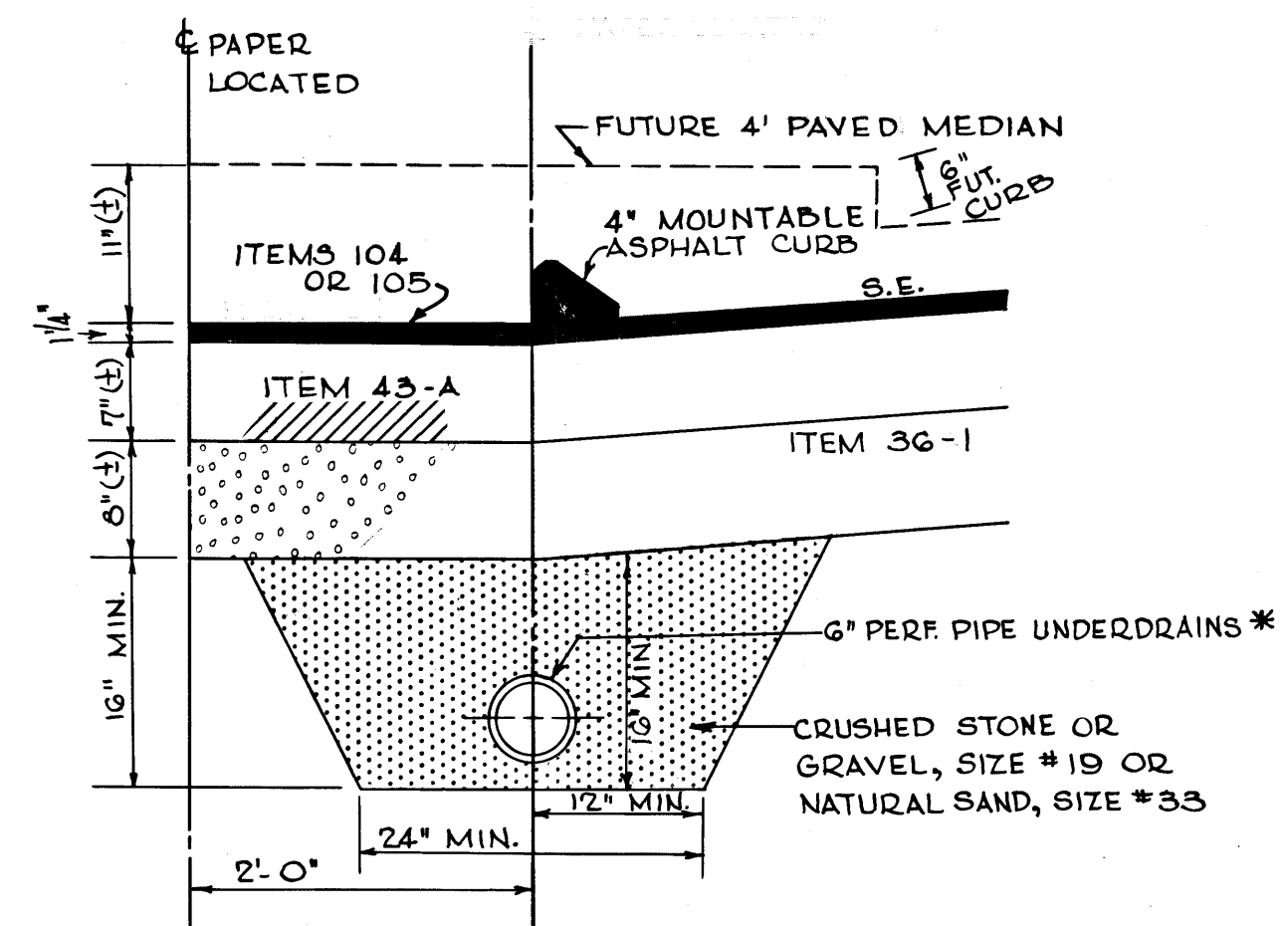


ASPHALT CURB FOR SUPERELEVATED SECTIONS (NARROW MEDIAN SECTION)

NOTE: THE CONTRACTOR WILL BE REQUIRED TO PLACE AND FORM THE ASPHALT CURB BY MACHINE.

ALL COSTS OF FORMING AND CONSTRUCTION OF ASPHALT CURBS TO BE INCLUDED IN THE UNIT PRICES BID FOR ITEM NOS. 104- 1 1/2 2 OR 105- 1 1/2 2.

NOTE: SEE TYPICAL X-SECTIONS

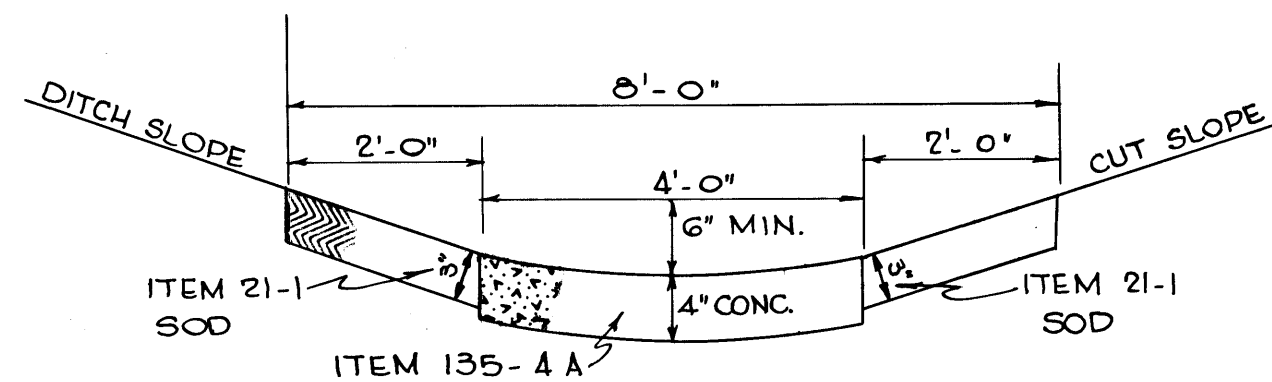


SKETCH SHOWING UNDERDRAINS (SEE STANDARD SPECIFICATIONS SECTION 178)

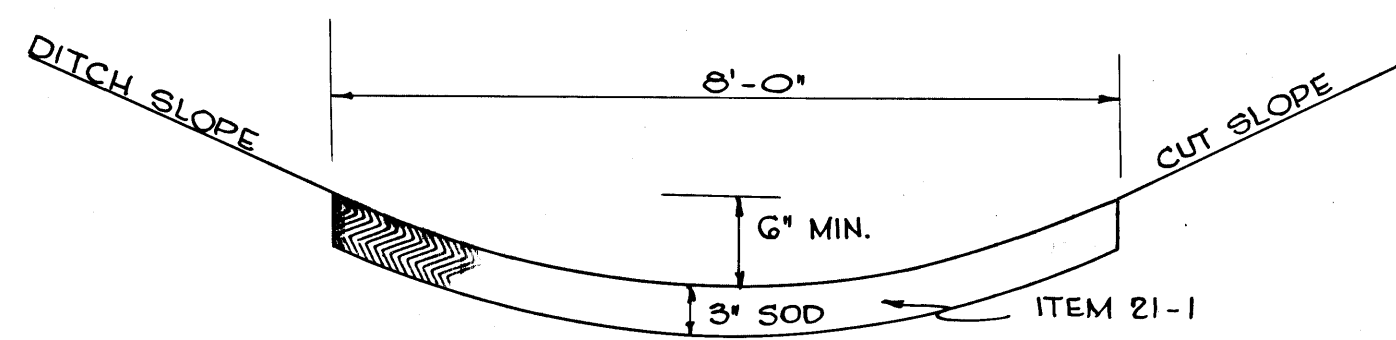
* PIPE ALTERNATES

- 6" PERFORATED C.M. PIPE OR
- 6" PERFORATED ALUMINUM ALLOY C.M. PIPE (SEE SPEC. PROVISIONS REG. SEC. 235) OR
- 6" PERFORATED CONCRETE PIPE OR
- 6" PERFORATED BITUMINIZED - FIBER PIPE (AASHTO M 177-60 - ALL PROVISIONS OF SECTION 178 APPLY, EXCEPT FOR MATERIAL) OR
- 6" PERFORATED CLAY PIPE

NOTE: UNDERDRAINS TO BE PLACED, AS SHOWN BY SKETCH, THROUGH HORIZONTAL CURVES OF NARROW MEDIAN SECTION (SLIDE AREA). UNDERDRAINS THROUGH THE REMAINDER OF PROJECT TO BE PLACED WHERE AND AS DIRECTED BY THE ENGINEER.



PAVED INTERSTATE DITCH



SODDED INTERSTATE DITCHES

NOTES REGARDING DITCHES

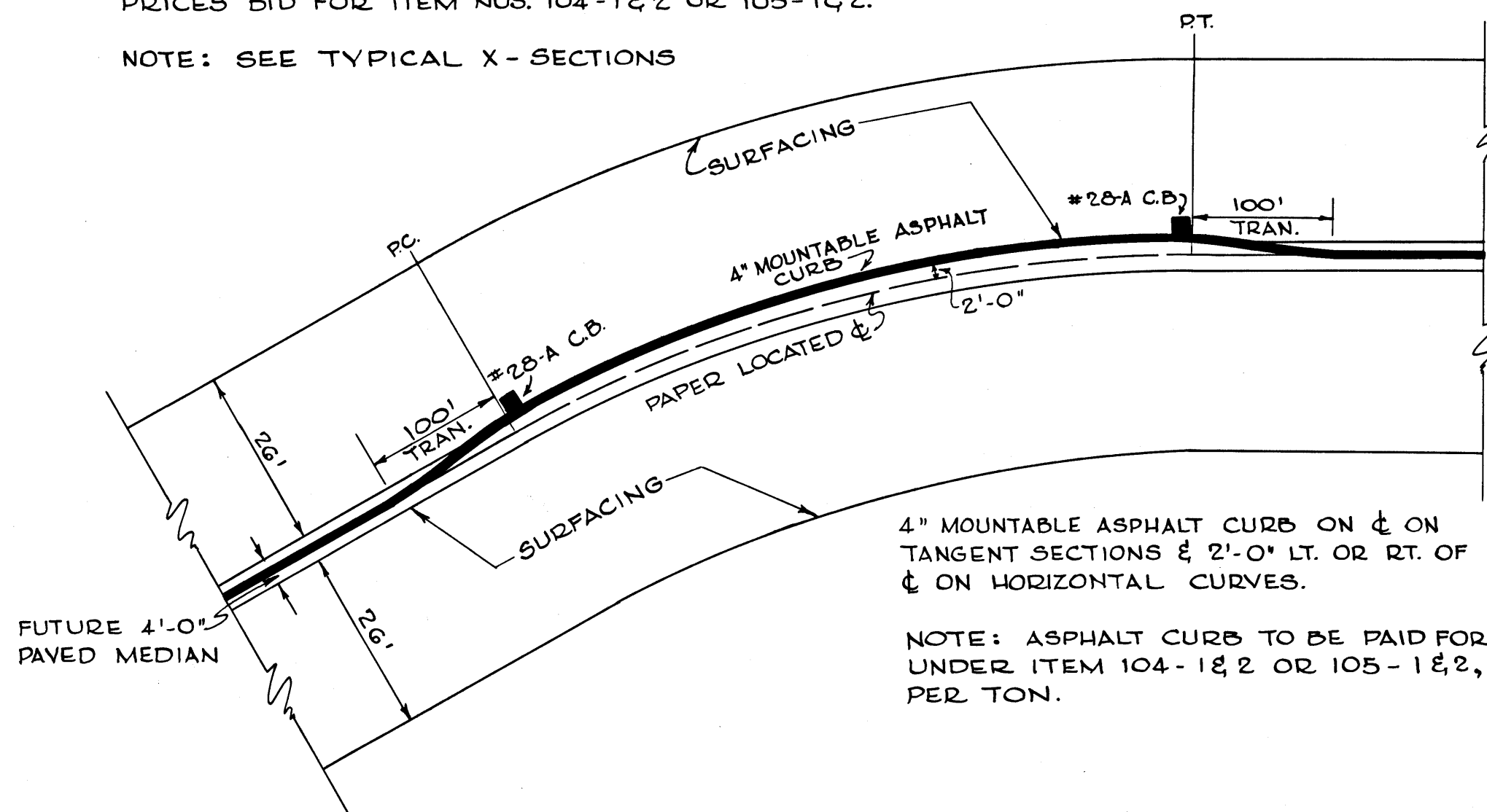
THE CONTRACTOR WILL BE REQUIRED TO PAVE OR SOD ALL EARTHEN ROADWAY AND MEDIAN DITCHES WHERE AND AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE ABOVE SECTIONS.

ONE-HALF (1/2) INCH TRANSVERSE PREMOULDED FIBER EXPANSION JOINTS WILL BE REQUIRED AT 60' INTERVALS IN ALL CONCRETE DITCHES, COST TO BE INCLUDED IN UNIT PRICE BID FOR ITEM 135- 4 A, CLASS "A" CONCRETE.

THE CONTRACTOR WILL BE REQUIRED TO SHAPE DITCHES TO THE SPECIFIED DESIGN. ALL COSTS TO BE INCLUDED IN UNIT PRICE BID FOR ITEM 135- 4 A, CLASS "A" CONCRETE.

A STRIP OF SOD 2'-0" IN WIDTH WILL BE REQUIRED ON BOTH SIDES OF ALL PAVED DITCHES, TO BE PAID FOR UNDER ITEM 21-1, SODDING.

THE CONTRACTOR WILL BE REQUIRED TO PAVE ALL DITCHES EITHER IN ROCK OR IN EARTH THROUGH THE SLIDE AREA FROM STA. 179+26 (±) TO STA. 230+99 (±).



LAYOUT SKETCH OF ASPHALT CURB (4" MOUNTABLE)

(FROM STA. 189+20 TO STA. 231+52 THRU NARROW MEDIAN SECTION, SLIDE AREA)

CATCH BASINS THRU NARROW MEDIANS (STA. 179+26 TO 238+99)

STATION	TYPE		LENGTH OF 15" C.M. PIPE	CLASS "A" CONC. (CY.)	REINF. STEEL (LBS)	BRICK MASONRY PER M.	ST. CASTING	S.T. CASTING	GRAN. AGG. (CY.)	DWG. NO.
	C.B.	E.W.					CLASS 20 (LBS)	CLASS 30 (LBS)		
189+25	*20A		50'	0.53	20	.371	860	860	9.4	S-CB-20A
189+25 RT.	"U"		50'	0.53	20	.371	860	860	9.4	S-CB-20-13
199+00	*20A		46'	0.53	20	.371	860	860	7.4	S-CB-20A
199+00 RT.	*20A		46'	0.53	20	.371	860	860	7.4	S-CB-20-13
212+25	*20A		46'	0.53	20	.371	860	860	7.4	S-CB-20A
212+25 LT.	"U"		46'	0.53	20	.371	860	860	7.4	S-CB-20-13
217+50	*20A		46'	0.53	20	.371	860	860	7.4	S-CB-20A
217+50 RT.	"U"		46'	0.53	20	.371	860	860	7.4	S-CB-20-13
232+00	*33		56'	1.43				145	9.0	M-D-2
232+00 RT.	"U"		56'	0.53	20					S-CB-20-13
TOTALS			256'	6.45	100	1.484	3,440	3,565	40.6	

IN-
77

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(91)257	1979	34

FED. ROAD DIST. NO.	FED. AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N. I-40-6(56)267	1970	10	68

Revised 9-24-71: Sign #1
Exit number changed.

FED. ROAD DIST. NO.	FED. AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N. I-40-6(72) R.O.W.	1958	6-4	18
3	N. I-503(74) CONST.	1958	6-4	205

REVISED 11-19-58: CHANGED GRADE, STA. 10+00 TO 29+00, AND V.C. LENGTH AT P.I. 29+00

FED. ROAD DIST. NO.	FED. AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N. I-40-6(15)268 PAVING	1970	3	41

PLAN	DATE	BY
JOINED		
PLotted		
AlIGNED		
Checked		
NOTE BOOK		
NO		

SMITH CO.
PUTNAM CO.
STA. 514+20

BEGIN PROJ. I-40-6(25)268 PAVING
STA. 514+20 E.B. & W.B. LANE

BEGIN PROJ. I-40-6(56)267 PAVING
STA. 521+70 E.B. & W.B. LANE

END PROJ. NO. IR-40-5(91)257 CONST.
STATION 30+00.00 E.B. & W.B.L.

END PAVING E.B. & W.B.L.
STATION 23+00.00

P.I. 43+20.96
N = 637.219.71
E = 2,061,132.14
Δ = 64° 26' Rt.
Ts = 2162.86
Ac = 62° 41'
D = 1° 45'
R = 3274.04
Lc = 3581.90
Tc = 2063.67
Ls = 200'
Os = 1° 45'
y = 2.04
x = 199.93
p = 0.51
k = 100.00
SE = 0.05640 FT/FT

PROFILE	DATE	BY
SURVEYED		
Plotted		
GRADES		
Checked		
STRUCTURE		
NOTE BOOK		
NO		

NOTE: GRADING AND DRAINAGE
QUANTITIES (INCLUDING
MEDIAN DRAINS)
HAVE NOT BEEN COR-
RECTED DUE TO ABOVE
GRADE REVISION

MEDIAN DRAINS & ENDWALLS

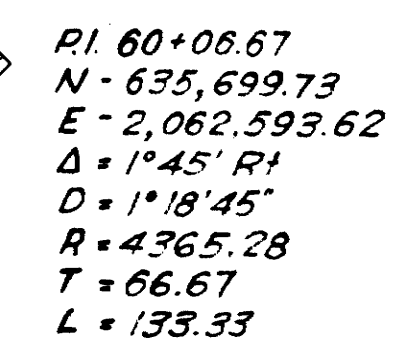
LOC. STA.	TYPE	DWG. NO.	PIPE DIA.	CL. A CONC. CU. YDS.	MET. END SECTIONS	CASTING CL. 20 LBS.
20+00	NO. 3/1CB	M-D-1	15"	0.74	1	223
20+00	MET. ES	CM-1-6	15"			
24+00	NO. 3/1CB	M-D-1	15"	0.74	1	223
24+00	MET. ES	CM-1-6	15"			
26+00	NO. 3/1CB	M-D-1	15"	0.97	1	223
26+00	MET. ES	CM-1-6	15"			
28+00	NO. 3/1CB	M-D-1	15"	0.74	1	223
28+00	MET. ES	CM-1-6	15"			
30+00	NO. 3/1CB	M-D-1	15"	0.74	1	223
30+00	MET. ES	CM-1-6	15"			
33+00	NO. 3/1CB	M-D-1	15"	1.23	1	223
33+00	MET. ES	CM-1-6	15"			
36+00	NO. 3/1CB	M-D-1	15"	0.74	1	223
36+00	MET. ES	CM-1-6	15"			
39+00	NO. 3/1CB	M-D-1	15"	0.74	1	223
39+00	MET. ES	CM-1-6	15"			
TOTAL				6.87	5	1784

PIPES (MEDIAN DRAINS)

FROM	TO	GRADE %	SIZE	LENGTH
Loc	FLE ELEV	Loc	FLE ELEV	
20+00	524.6	RIGHT	523.3	2.03
24+00	526.5	RIGHT	525.2	2.09
26+00	526.2	RIGHT	524.7	2.00
36+00	523.6	RIGHT	522.3	1.97
39+00	524.1	RIGHT	522.8	2.09
36+00	526.3	28+00	527.5	0.61
30+00	527.5	33+00	526.0	0.50
33+00	525.9	36+00	523.7	0.74
TOTAL				1723

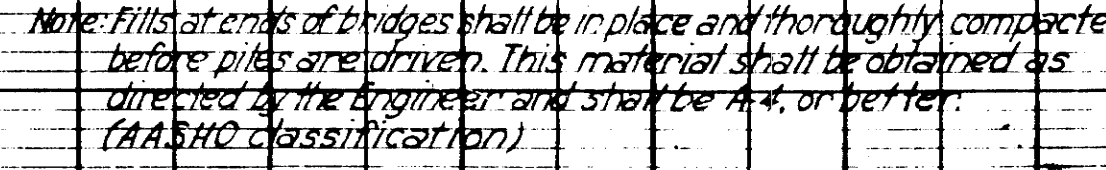
MID.SOUTH ENGINEERING CO.					
FED. ROAD DIST.	T E N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	7-503 (72) A.Q.W.	1958	7-A	18

FED. ROAD DIST.	T E N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	I-40-6425-268 PAVING	1967	4	41



MSE-48 EI. 526.18
N-634,965.14
E-2,062,005.37
910' Rt. sta. 61+20 ±
Steel pin set flush

Grades on Interstate around curves are referenced to the center line to facilitate slope staking and are not the actual grades on the individual lanes due to the difference in lengths



BRIDGE #1
2-3 span conc. deck girder bridges req'd
1 span @ 74.11'
1 span @ 13.23'
1 span @ 74.72'
Total length 222.07' ea.
2-44' Roadways with safety curbs
60° skew (See Bridge Dwg. No. G-3-1)

BRIDGE #2
2. 3 span conc deck girder bridges req'd
1 span @ 42.0'
1 span @ 42.5'
1 span @ 42.0'
Total length 126.5' ea
2. 40' Roadways with safety curbs
99' x 20' 40' x 20' Sep Bridge Owl No. 6-3-1

MEDIAN DRAINS & ENDWALLS							
LOC. STA.	TYPE	DWG. NO.	PIPE DIA.	CL. A CL. B	CONG. TODS.	MET. END. SECTIONS	CASTING CL. & L.S.
43+00	N031CB	M-D-1	—	0.74			223
43+00	METES	CM-1-G	15"			1	
45+00	N031CB	M-D-1	—	0.74			223
45+00	METES	CM-1-G	15"			1	
47+00	N031CB	M-D-1	—	0.74			223
47+00	METES	CM-1-G	15"			1	
	TOTAL			2.92		3	669

PIPES (MEDIAN DRAINS)					
FROM		TO		GRADE %	SIZE (LENGTH)
LOC	FL ELEV	LOC	FL ELEV		15'
43+00	522.5	RIGHT	521.0	2.09	62'
45+00	522.1	RIGHT	520.8	2.09	62'
47+00	522.3	RIGHT	521.0	2.09	62'
				TOTAL	186'

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-6(56)267	1970	11A	68

PAVING

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-6(56)268	1970	5	41

PAVING

CURVE DATA - RAMP "A"				
CURVE	1	2	3	4
Δ	16°47'00"	86°17'44"	80°17'37"	29°45'30"
D	7°47'24"	95°29'35"	52°05'13"	190°59'09"
R	735.50'	60.00'	110.00'	30.00'
T	108.50'	56.24'	92.78'	7.97'
L	215.45'	90.37'	154.15'	15.58'

BUFFALO VALLEY ROAD

P.I. 8+14.10
 $\Delta = 32°01'00"$ Rt
 $D = 8°45'00"$
 $R = 654.81'$
 $T = 187.87'$
 $L = 365.91'$

NOTE: THIS SHEET IS FOR REFERENCE ONLY TO SHOW CURVE DATA ETC. ALL OTHER INFORMATION IS TO BE DISREGARDED UNDER PROJECT I-40-6(56)267 PAVING.

CURVE DATA - RAMP "B"				
CURVE	1	2	3	4
Δ	42°31'09"	19°14'00"	65°08'34"	54°06'38"
D	19°14'14"	3°00'00"	95°29'35"	190°59'09"
R	297.84'	1909.86'	60.00'	30.00'
T	115.88'	323.60'	100.14'	15.32'
L	221.03'	641.11'	69.09'	28.33'

CURVE DATA - RAMP "C"				
CURVE	1	2	3	4
Δ	23°55'45"	34°06'47"	66°47'00"	79°06'13"
D	8°00'51"	190°59'09"	57°17'45"	95°29'35"
R	714.92'	30.00'	100.00'	60.00'
T	151.50'	9.20'	65.92'	49.55'
L	298.58'	17.86'	116.56'	82.84'

CURVE DATA - RAMP "D"				
CURVE	1	2	3	4
Δ	37°21'08"	62°33'00"	80°05'52"	11°10'00"
D	190°59'09"	63°39'43"	63°39'43"	8°00'
R	30.00'	90.00'	90.00'	716.20'
T	10.14'	54.67'	75.65'	70.01'
L	19.56'	98.25'	125.82'	139.58'

± I-40
 P.I. 43+20.96
 N - 637.219.71
 E - 2.061.132.14
 $\Delta = 64°26'00"$ Rt
 $T_s = 2162.86'$
 $\Delta c = 62°41'00"$
 $D = 1°45'00"$
 $R = 3274.04'$
 $L_c = 3581.90'$
 $T_c = 2063.67'$
 $L_s = 200.00'$
 $B_s = 1°45'00"$
 $y = 2.04'$
 $x = 199.98'$
 $p = 0.51'$
 $k = 100.00'$
 $SE = 0.05640$ FT/FT

± I-40
COMPOUND CURVE

P.I. 60+06.67
 N - 635.669.73
 E - 2.062.593.62
 $\Delta = 1°45'00"$ Rt
 $D = 1°18'45"$
 $R = 4365.28'$
 $T = 66.67'$
 $L = 193.33'$

NOTE:
 For typical detail at exit nose see Sheet No 2A

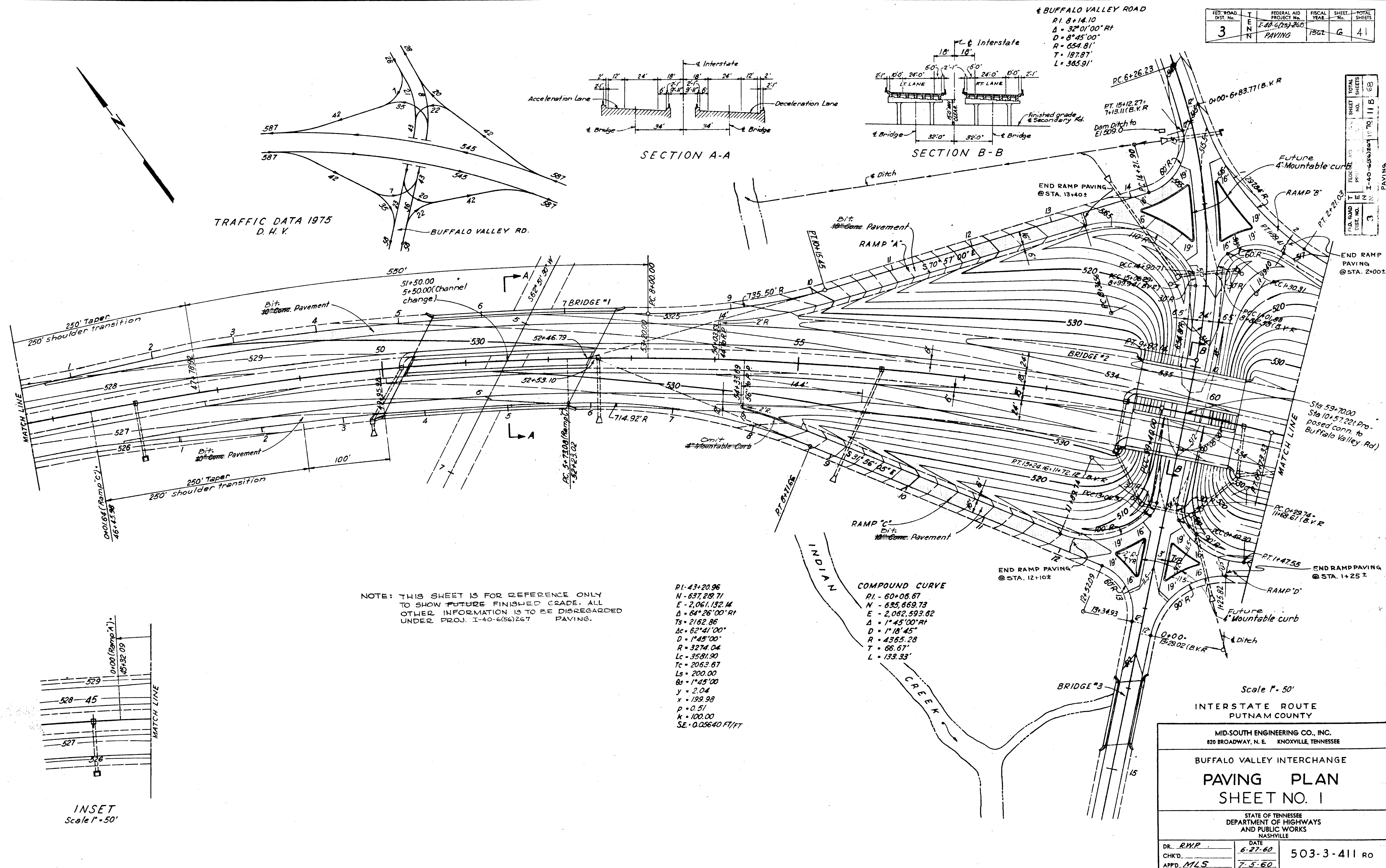
Scale 1" = 100'

INTERSTATE ROUTE I-40
PUTNAM COUNTYMID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEEBUFFALO VALLEY
INTERCHANGE
PROPOSED LAYOUTSTATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLEDR. R. W. P.
CHK'D
APP'DDATE
11-28-57

503-3-410 RO

FED. ROAD DIST. No.	T E N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	F-40-6(25)-260 PAVING	1962	6	41

F.D. ROAD DIST. NO.	T E N	FEDERAL AND PROVINCIAL	SHEET NO.	TOTAL SHEETS
3		I-40-(55)2671070	118	68



BUFFALO VALLEY INTERCHANGE

PAVING PLAN
SHEET NO. 1

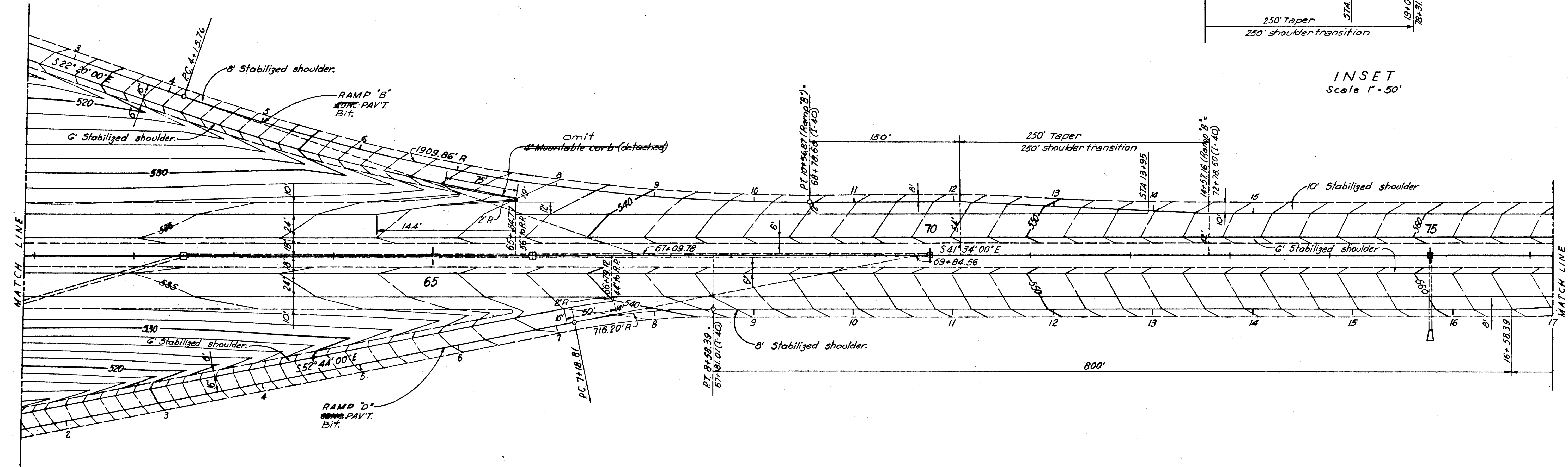
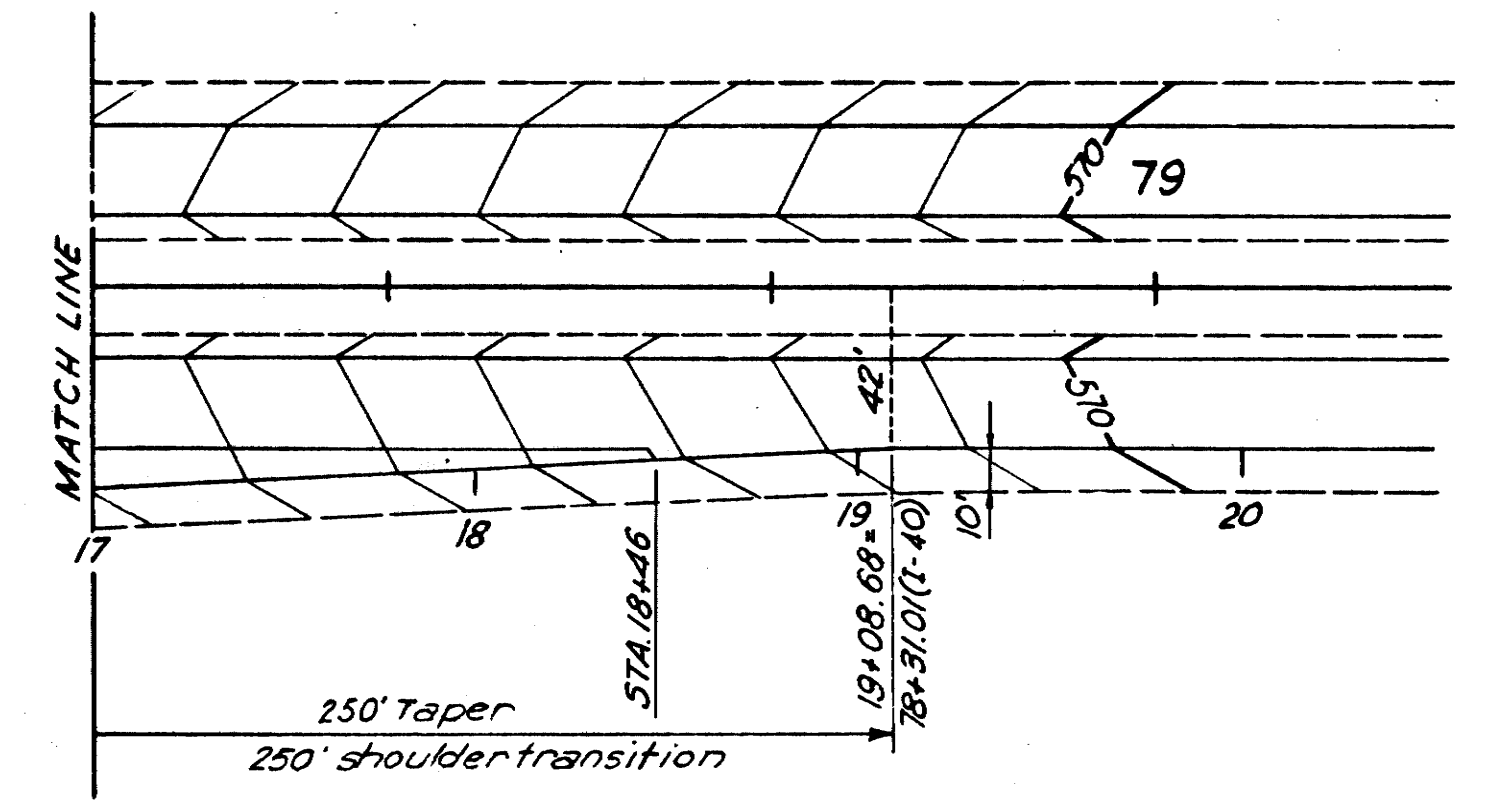
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR. <u>RWP</u>	DATE <u>6-27-60</u>
CHK'D _____	
APP'D <u>MLS</u>	<u>7-5-60</u>

503-3-411 RC

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-6(56)267	1970	11 C	68
PAVING					

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-6(25)268	1970	7	41
PAVING					



NOTE: THIS SHEET IS FOR REFERENCE ONLY TO SHOW ~~EXISTING~~ FINISHED GRADE. ALL OTHER INFORMATION IS TO BE DISREGARDED UNDER PROJ. I-40-6(56)267 PAVING.

NOTES:
1. Contours denote finished elevations.

Scale 1" = 50'

INTERSTATE ROUTE I-40
PUTNAM COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

BUFFALO VALLEY INTERCHANGE
PAVING PLAN
SHEET NO. 2

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR. _____	DATE _____	503-3-412 RO
CHK'D _____	_____	
APP'D _____	_____	

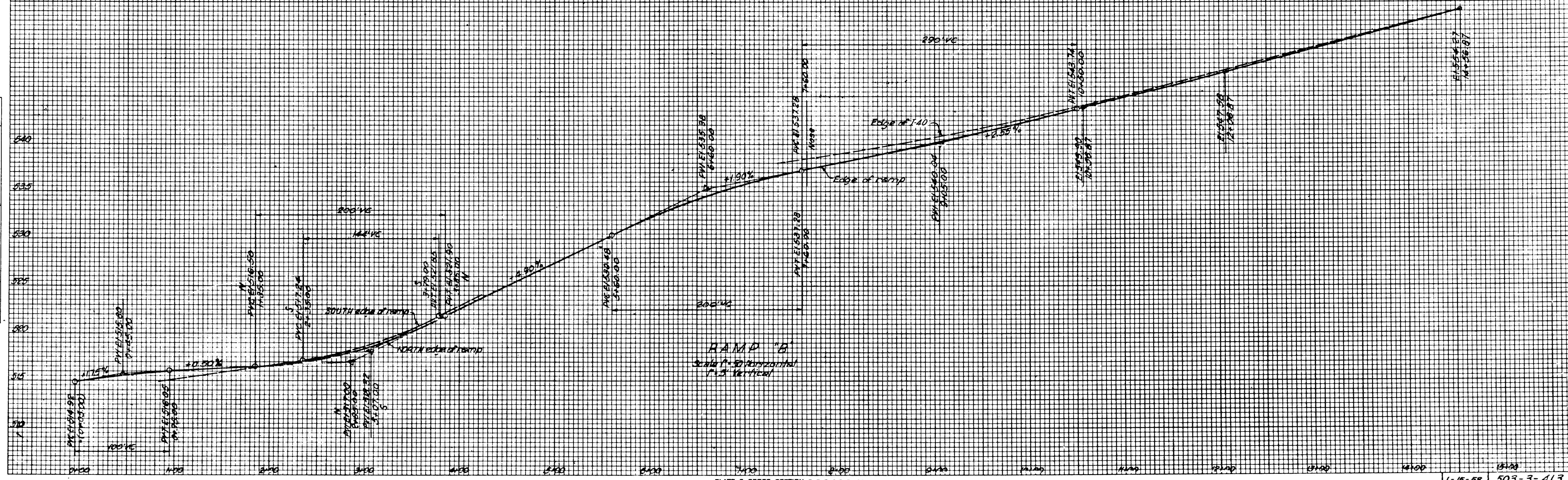
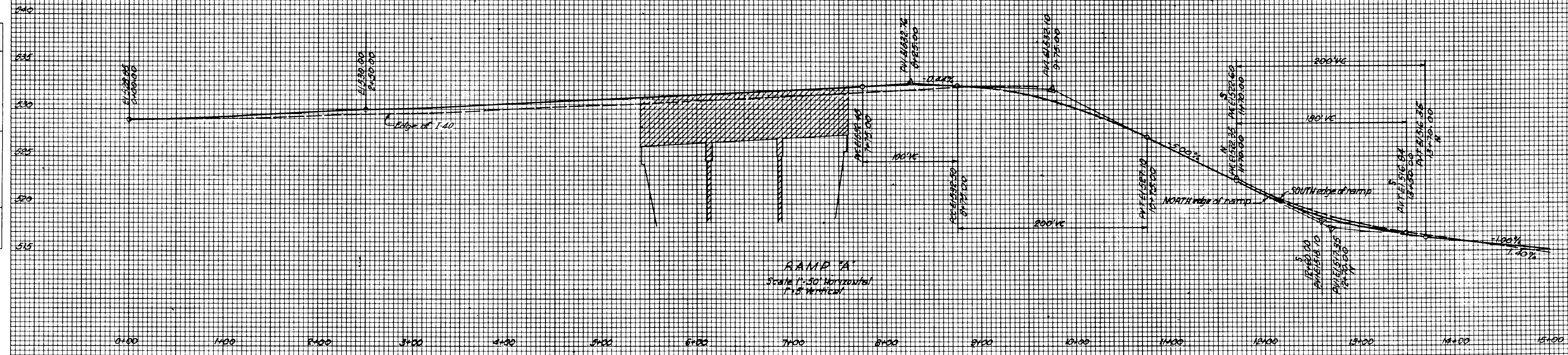
FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	T-40-6(56)267	1970	110	12
		PAVING			

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	T-40-6(15)268	1962	8	11
		PAVING			

PROFILE RAMPS 'A' & 'B'
BUFFALO VALLEY INTERCHANGE
STA 59+70.00

DATE	BY	FINAL SURVEY	NOTED	AREA CHECKED

DATE	BY	ORIGINAL SURVEY	NOTED	AREA CHECKED



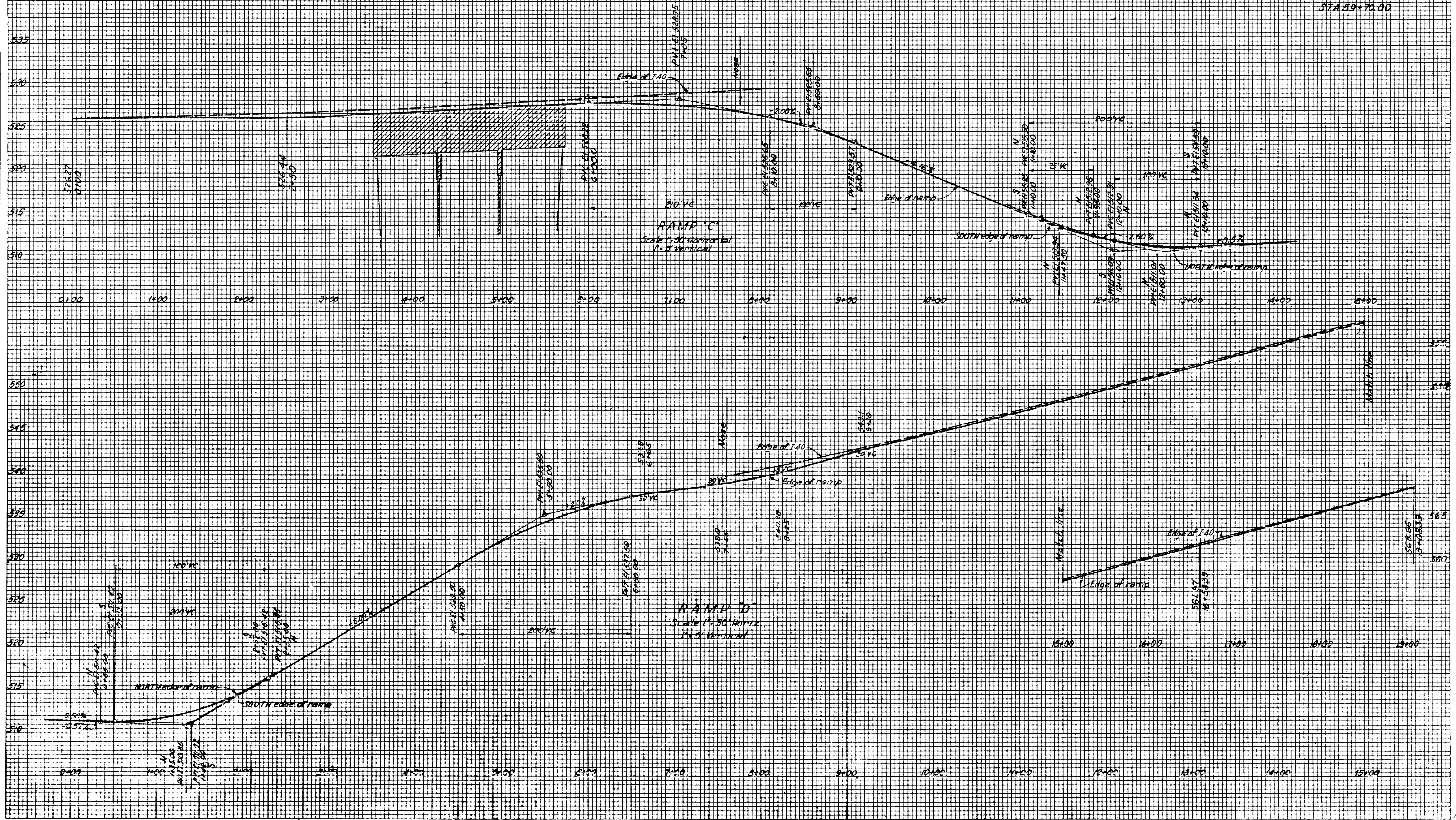
FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(56)ZGT PAVING	1970	14 E	66

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	I-40-6(15)ZGB PAVING	1967	9	11

PROFILE RAMPS 'C' & 'D'
BUFFALO VALLEY INTERCHANGE
STA 59+70.00

FINAL SURVEY	DATE
SURVEYED	
NOTED	
AREA CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	
NOTED	
AREA CHECKED	
NO.	



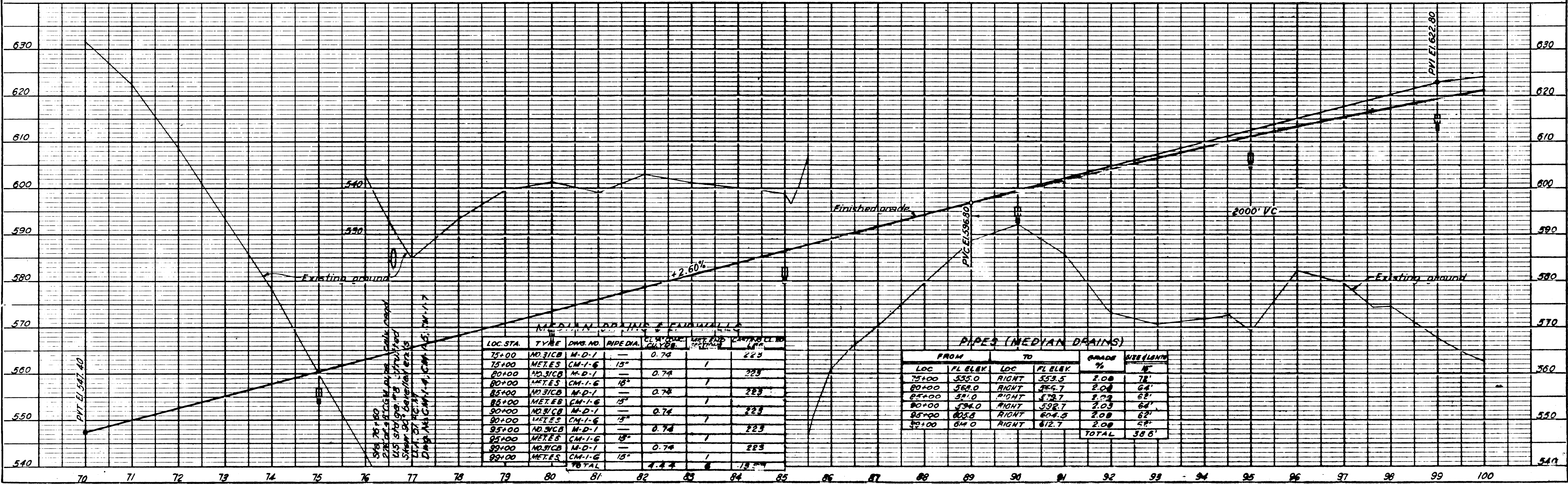
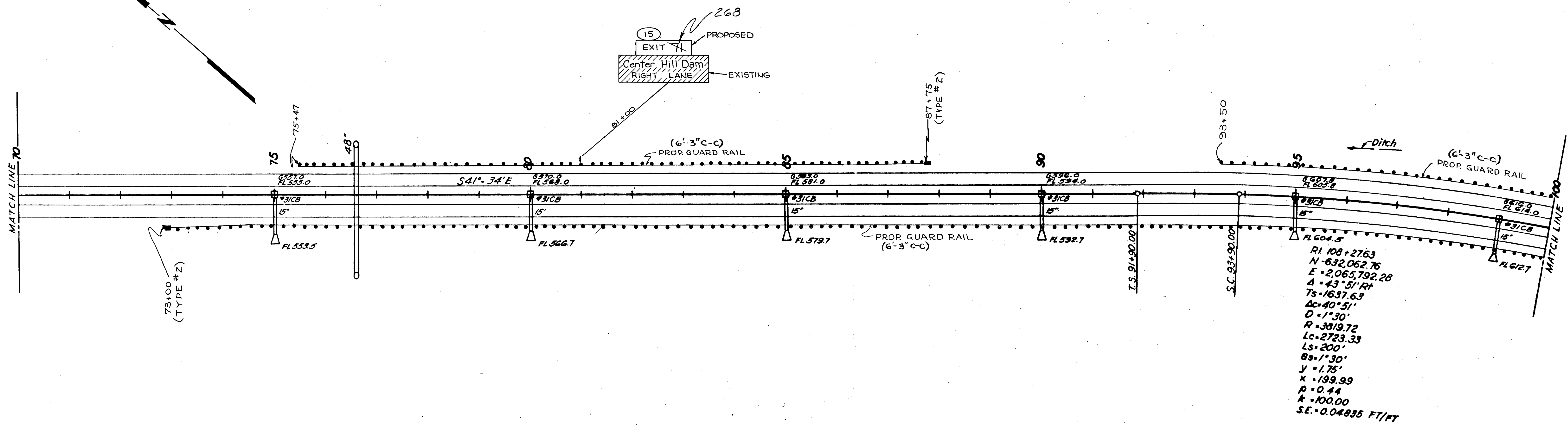
PLAN	DATE
SURVEYED	
NOTED	
ALIGNED	
CHECKED	
BY	

PROFILE	DATE
SURVEYED	
NOTED	
CHECKED	
BY	

FED. ROAD DIST. NO.	T	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(56)267	1970	12	68

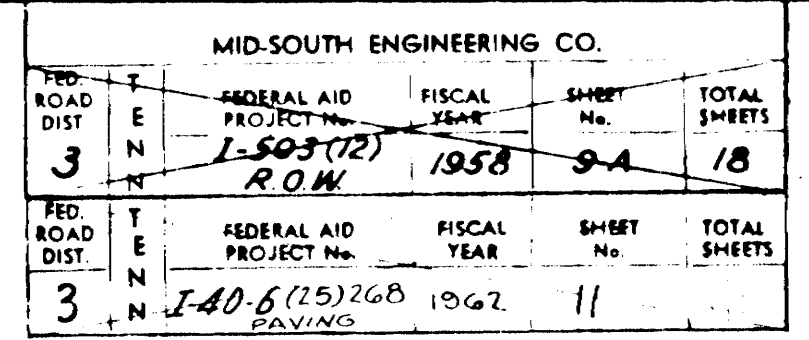
PAVING
Revised 9-24-71: Sign #15
Exit number changed.

FED. ROAD DIST. NO.	T	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(56)267	1970	12	68

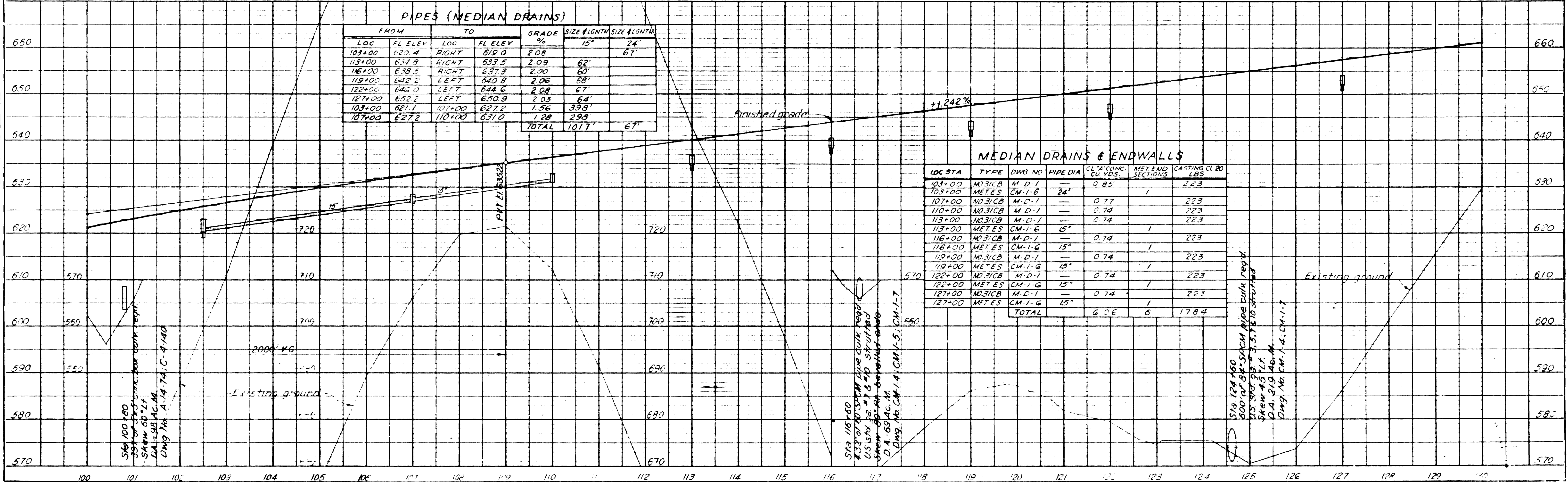


LOC. STA.	TYPE	DWG. NO.	PIPE DIA.	CL. H. (IN)	CL. D. (IN)	CL. L. (IN)
75+00	NO. 31CB	M-D-1	15"	0.74	1	223
75+00	METES	CM-1-6	15"	0.74	1	223
80+00	NO. 31CB	M-D-1	15"	0.74	1	223
80+00	METES	CM-1-6	15"	0.74	1	223
85+00	NO. 31CB	M-D-1	15"	0.74	1	223
85+00	METES	CM-1-6	15"	0.74	1	223
90+00	NO. 31CB	M-D-1	15"	0.74	1	223
90+00	METES	CM-1-6	15"	0.74	1	223
95+00	NO. 31CB	M-D-1	15"	0.74	1	223
95+00	METES	CM-1-6	15"	0.74	1	223
99+00	NO. 31CB	M-D-1	15"	0.74	1	223
99+00	METES	CM-1-6	15"	0.74	1	223
TOTAL				4.44	5	18.00

PIPES (MEDIAN DRAINS)					
FROM	TO	GRADE	SIZE	LENGTH	
LOC	FL ELEV	LOC	FL ELEV	%	FT
75+00	555.0	RIGHT	553.5	2.00	78'
80+00	588.0	RIGHT	586.7	2.00	64'
85+00	591.0	RIGHT	589.7	2.00	62'
90+00	596.0	RIGHT	592.7	2.00	64'
95+00	605.0	RIGHT	604.5	2.00	62'
99+00	614.0	RIGHT	612.7	2.00	62'
TOTAL					386'



		MADIAN DRAINS @ END WALLS				
LOC STA	TYPE	DWG NO	PIPE DIA	CL 'A' CONC CY VOLS.	MEET END SECTIONS	CASTING CL 20 LBS
103+00	NO.3/CB	M-D-1	—	0.85		223
103+00	METES	CM-1-6	24"		1	
107+00	NO.3/CB	M-D-1	—	0.77		223
110+00	NO.3/CB	M-D-1	—	0.74		223
113+00	NO.3/CB	M-D-1	—	0.74		223
113+00	METES	CM-1-6	15"		1	
116+00	NO.3/CB	M-D-1	—	0.74		223
116+00	METES	CM-1-6	15"		1	
119+00	NO.3/CB	M-D-1	—	0.74		223
119+00	METES	CM-1-6	15"		1	
122+00	NO.3/CB	M-D-1	—	0.74		223
122+00	METES	CM-1-6	15"		1	
127+00	NO.3/CB	M-D-1	—	0.74		223
127+00	METES	CM-1-6	15"		1	
		TOTAL		6.06	6	1784

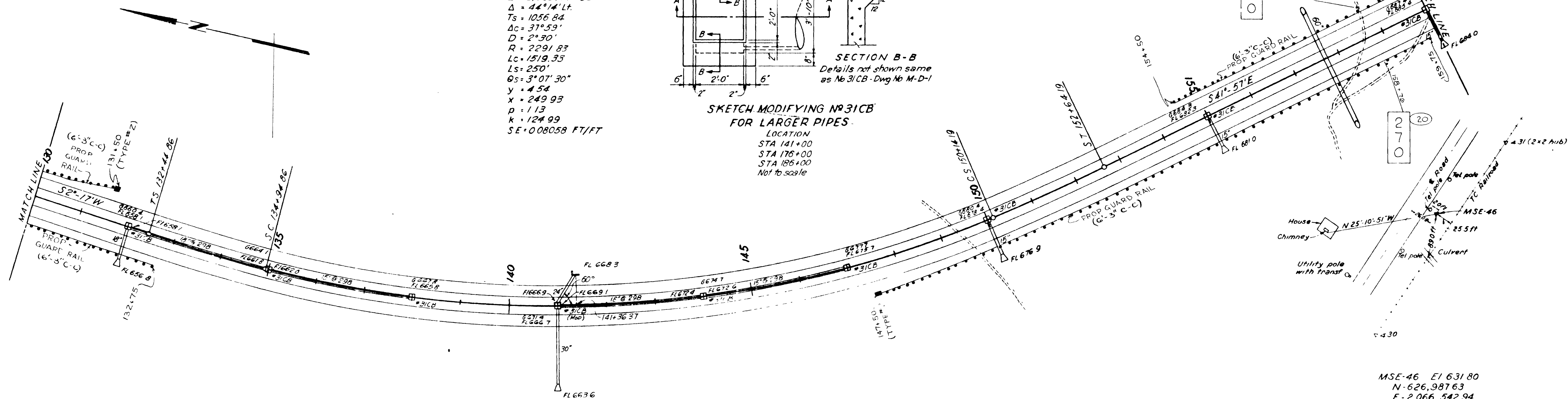


SECTION B-B
Details not shown same
as No 31CB - Dwg No M-D-1

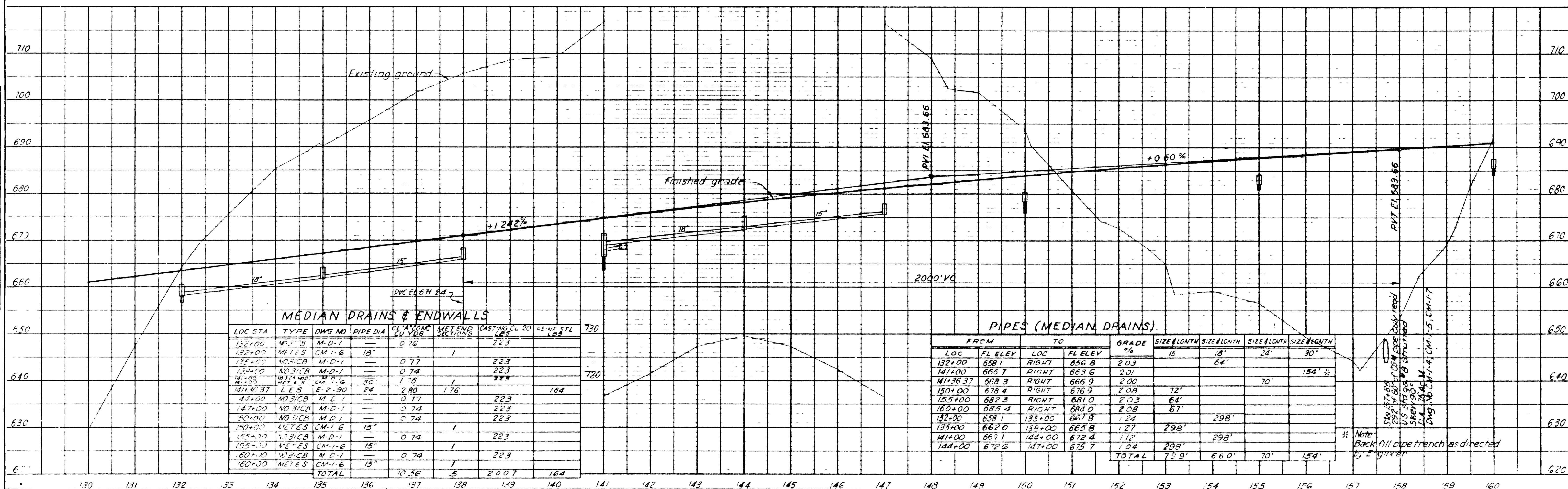
**SKETCH MODIFYING NO 31CB
FOR LARGER PIPES.**

LOCATION
STA 141+00
STA 176+00
STA 186+00
Not to scale

MID-SOUTH ENGINEERING CO					MID-SOUTH ENGINEERING CO						
FED. ROAD DIST.	F E N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS	FED. ROAD DIST.	F E N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	EAD-6(25)768	1967	12		3	N	7-504(12) R.O.W.	1958	10-A	18



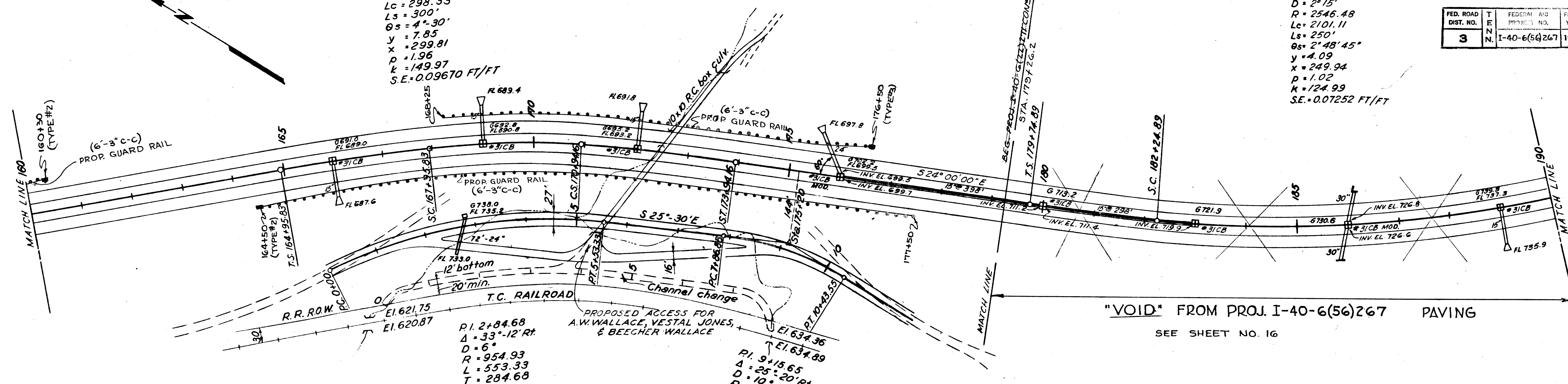
MSE-46 EI 63180
N-626,98763
E-2,066,54294
305' Rt. sta. 158+77±
Steel pin set f'ush



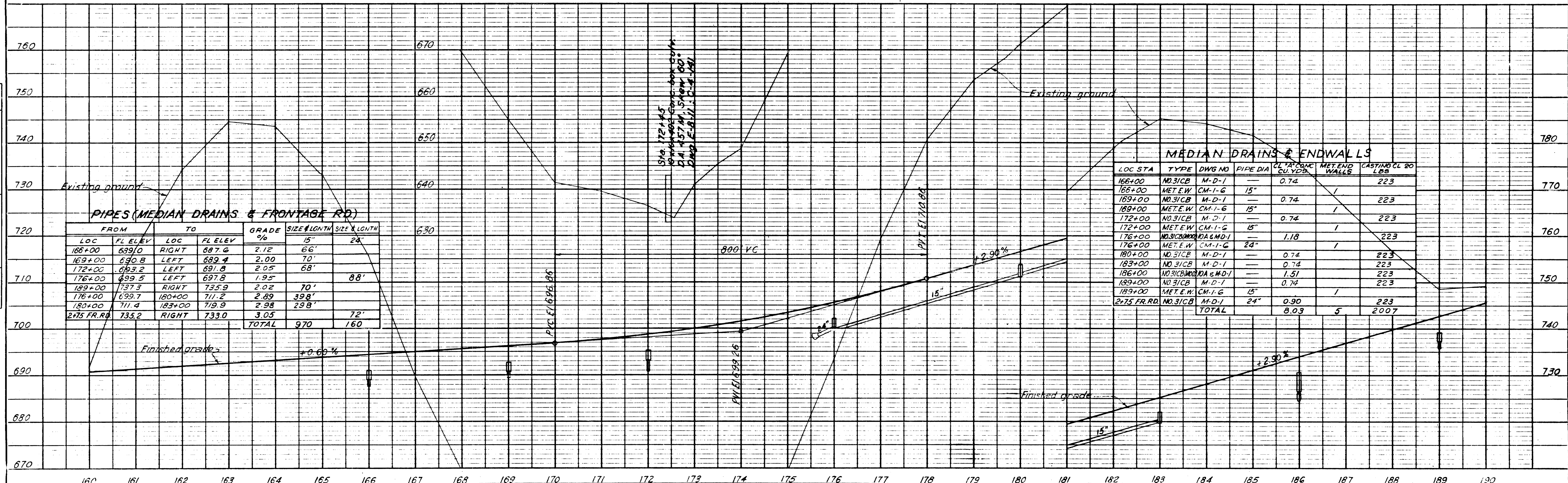
* Note:	
Back fill pipe trench as directed	
by Engineer	

$P.L. = 169 + 47.75$
 $N = 626, 401.53$
 $E = 2,067, 479.73$
 $\Delta = 17^{\circ} - 57' Rt.$
 $T_s = 451.92$
 $\Delta C = 8^{\circ} - 57'$
 $D = 3^{\circ} - 00'$
 $R = 1909.86$
 $L_c = 298.33$
 $L_s = 300'$
 $\theta_s = 4^{\circ} - 30'$
 $y = 7.85$
 $x = 299.81$
 $p = 1.96$
 $k = 149.97$
 $S.E. = 0.09670 \text{ FT/FT}$

Pl. 193+67.24
 N - 62°4, 186.18
 E - 2,068,466.07
 Δ = 52°54'1.6
 Ts = 1392.35
 Δc = 47°16'30"
 D = 2°15'
 R = 2546.48
 Lc = 2101.11
 Ls = 250'
 θs = 2°48'45"
 y = 4.09
 x = 249.94
 p = 1.02
 k = 124.99
 SE = 0.07252 FT/F

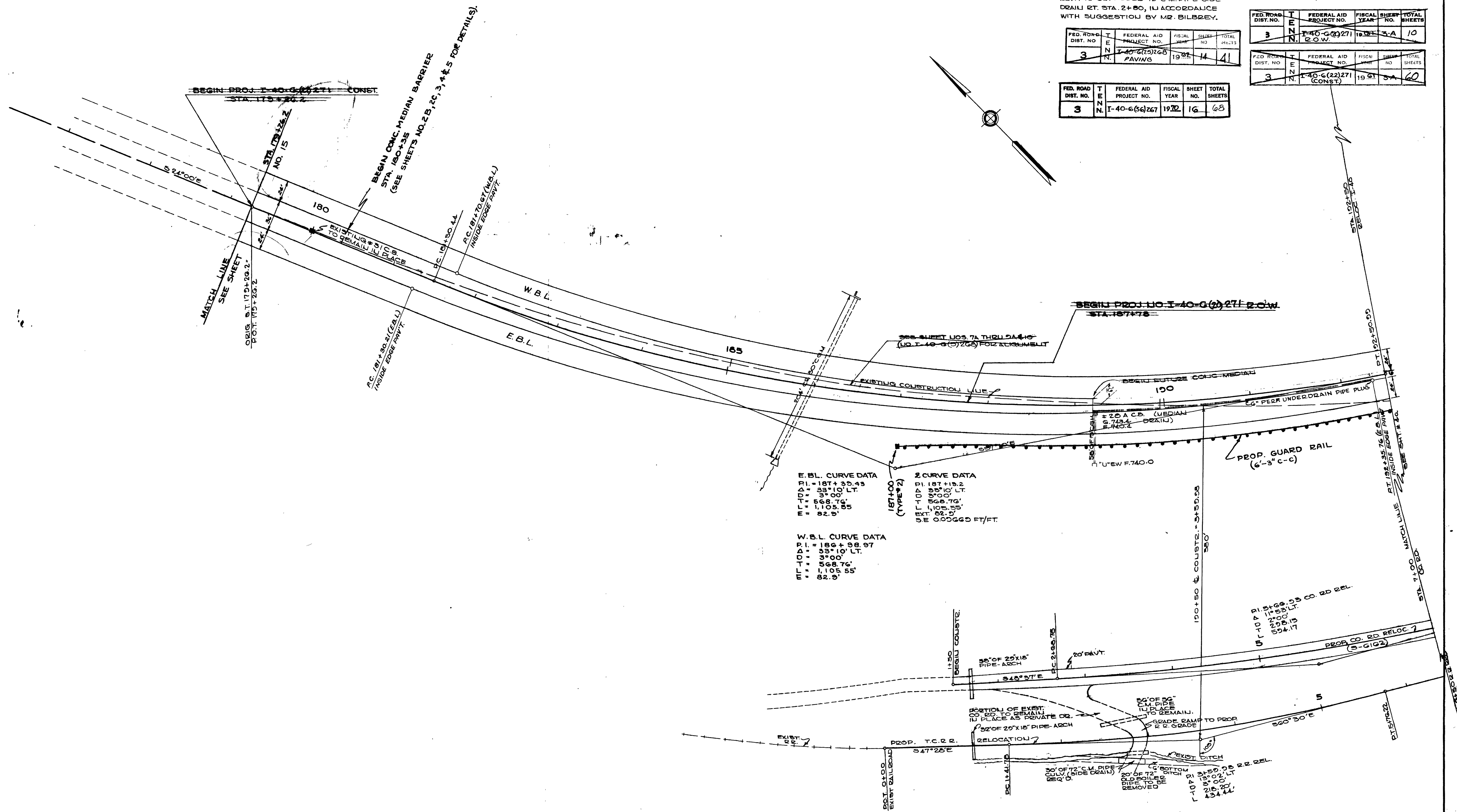


"VOID" FROM PROJ. I-40-6(56)267 PAVING
SEE SHEET NO. 16



FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-6(56)Z67	1970	16	68

FED ROAD DIST. NO	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
3	N.	1-40-G(22)271 (CONST.)	1961	5A	60



PROPOSED LAYOUT
SCALE 1" = 50'

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	I-40-6(56)261	19.70	16 A	66

PAVING

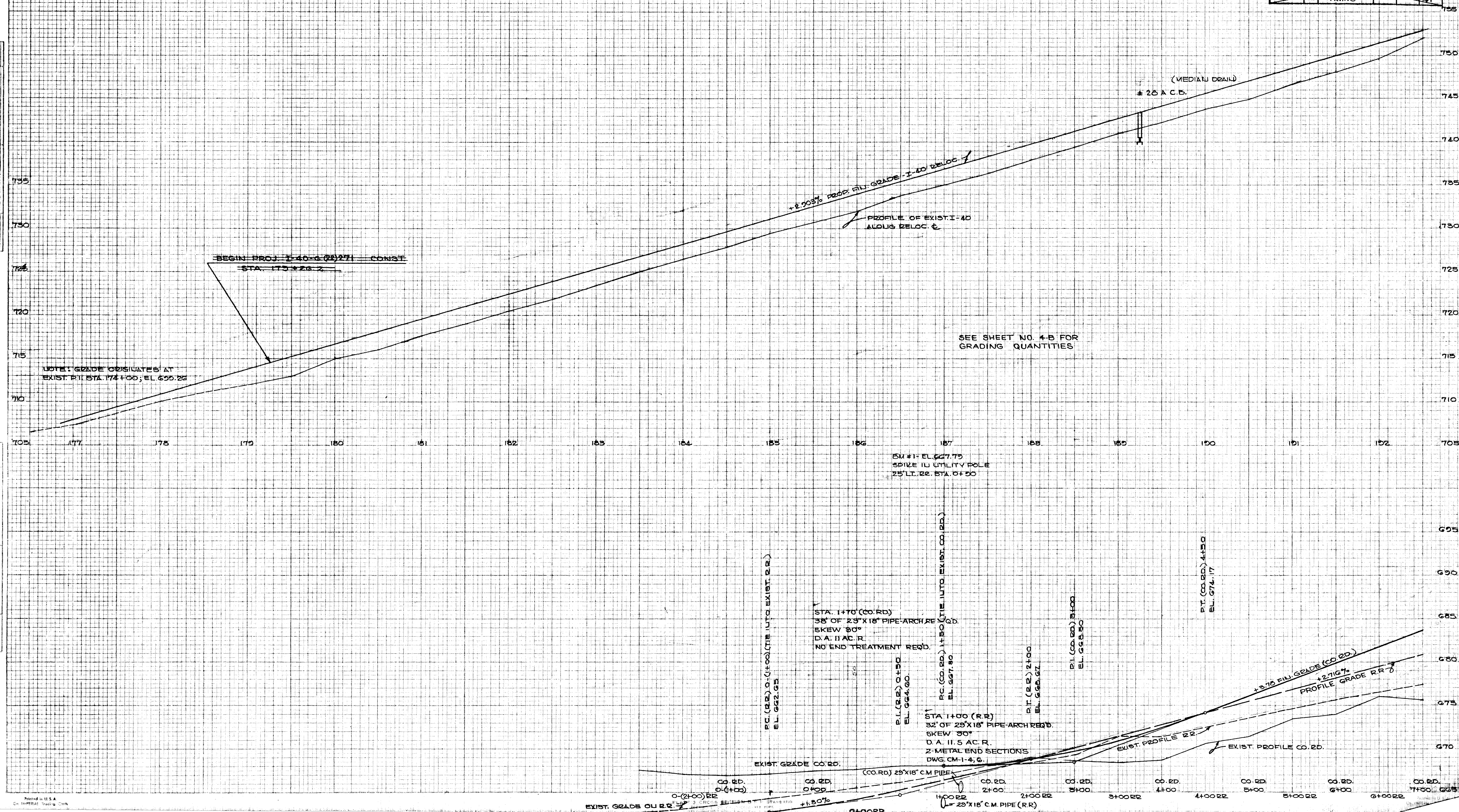
FED. ROAD DIST. NO.	T E N	FEDERAL AID REQUEST NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	T-40-G (20) 271 R.O.W.	1961	3B	

FED. RES. DIST. NO.	FED. PROJECT NO.	FISCAL YEAR	SN70 NO.	TOT. SHE.
3	1-40-G(22)271 (CONST.)	1991	38	60

FED. ROAD DIST. NO.	T E N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	140-6(25)ZGB PAYING	19.62	15	41

FINAL	BY	DATE
SURVEY		
PLANTED		
TEMPLATE		
AREAS		
AREAS CHANGED		

ORIGINAL SURVEY				
NOTE BOOK				
	SURVEYED		BY	DATE
	PLOTTED			
	TEMPLATE			
	AREAS			
	AREAS CHECKED			



FED. ROAD DIST NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		1-40-6(56)267	1970	17	68

PAVING

REV. 2-1G-G2: RELOCATED THE OUTFALL OF THE EXISTING 60" PIPE UNDER I-40, THRU A 72"x44" PIPE-ARCH, WESTWARD ALONG THE RR IN LIEU OF EASTWARD.

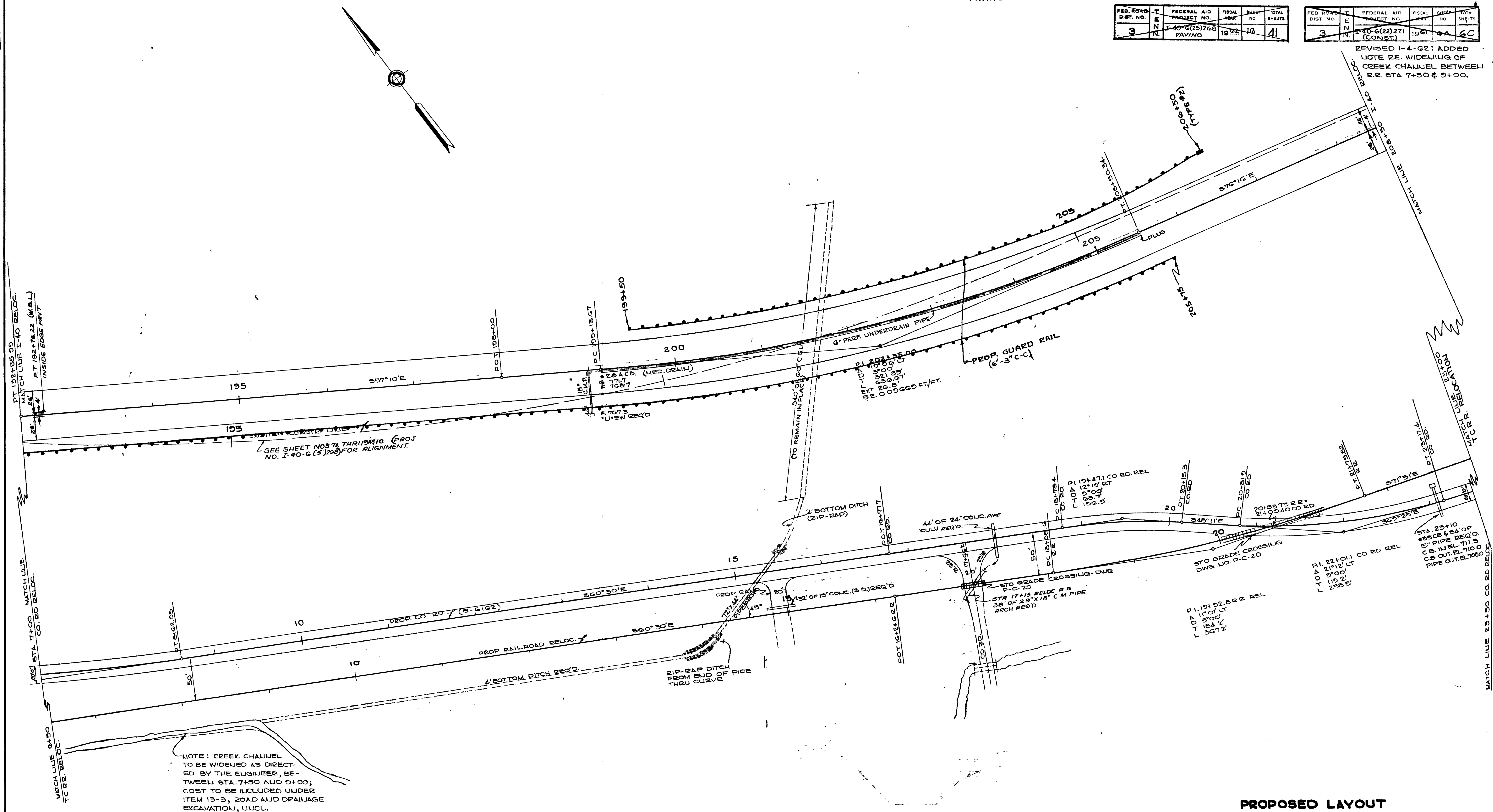
REV. 2-1G-G2: CONSTRUCTION REVISION SEE R O W REVISION ABOVE, DATED 2-1G-G2,

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
3	N	T-40-6(25)268 PAVING	1962	16	41

FED ROAD DIST NO.	T E N N.	FEDERAL AID PROJECT NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		E-40-C(2)271 ROW	1961	4-A	10

FED ROAD DIST NO	T E N N.	FEDERAL AID PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
3		1-40-6(22) 271 (CONST.)	1961	4-A	60

REVISED 1-4-62: ADDED
NOTE RE. WIDENING OF
CREEK CHANNEL BETWEEN
R.R. STA 7+50 & 9+00.



PROPOSED LAYOUT
SCALE 1"=50'

FED. PROJ. DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	1-40-6(22)271 (CONST)	1961	48	60

FED. PROJ. DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	1-40-6(25)268 PAVING	1962	17	41

FED. ROAD DIST. NO.	T E N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		T-10-C(29271) R.O.W.	1952	18	10

FED. ROAD DIST. NO.	T E	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
3	N N.	I-40-6(S)267	1970	17A	68

PAVING

PAVIN

REV. 2-10-62: CHANGED GRADING
QUALITIES; RELOCATED CER-
TAIN DRAINAGE STRUCTURES
AND OMITTED RAMP AT STA. 750
+ 57 ± ON R.R.

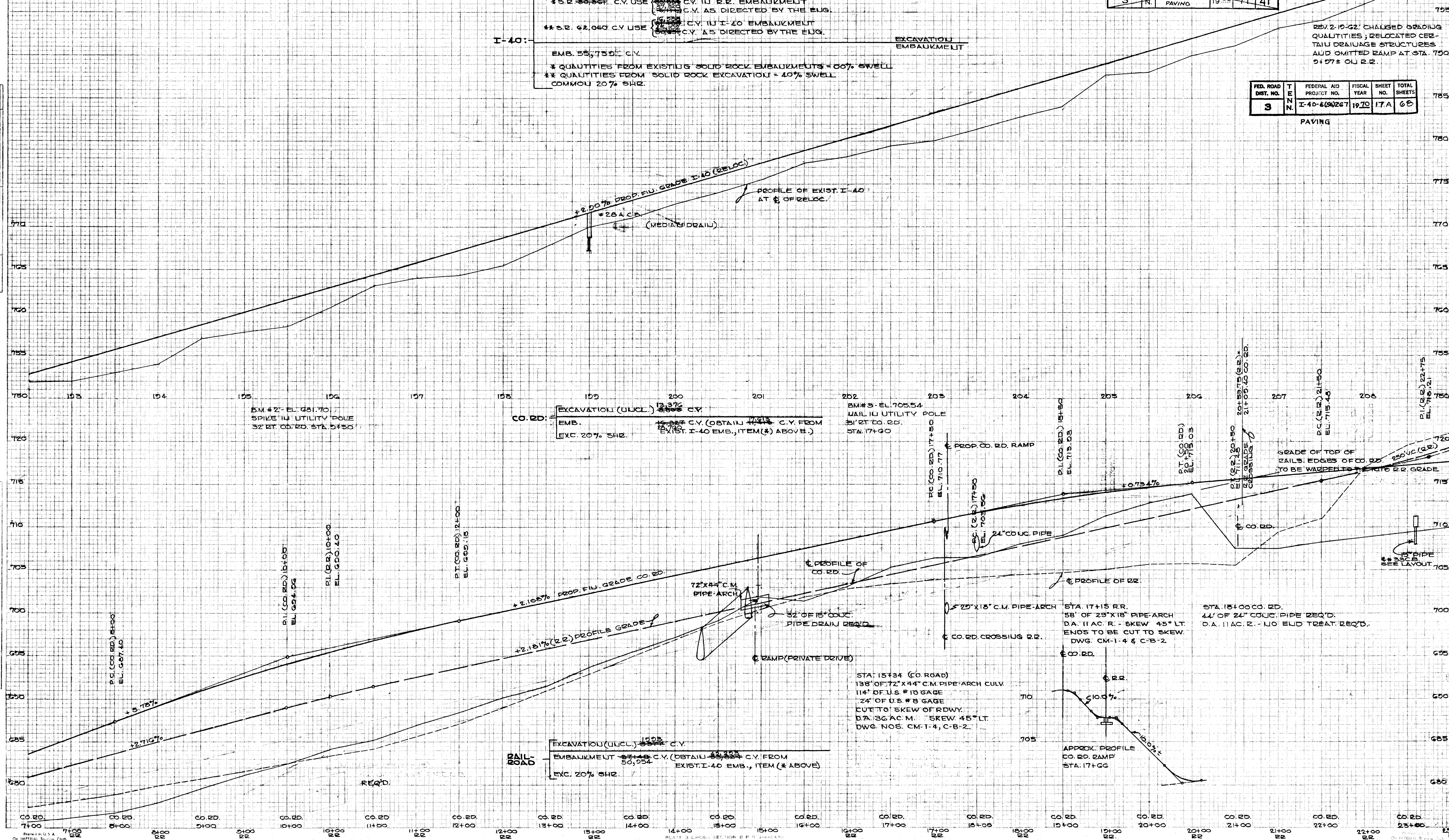
GRADING QUANTITIES: (QUANTITIES FOR ENTIRE PROJECT SHOWN ON THIS SHEET)

COM. 104,222 C.Y. (USE OUT-TO-40 FOR LEVELING SUB-GRADE AND IN SHALLOW EMBANKMENT)	104,222 C.Y. IN C.O. 2D. EMBANKMENT
* S.D. 20,561 C.Y. USE	20,561 C.Y. IN R.R. EMBANKMENT
	20,561 C.Y. AS DIRECTED BY THE ENG.
** S.D. 62,060 C.Y. USE	62,060 C.Y. IN I-40 EMBANKMENT
	62,060 C.Y. AS DIRECTED BY THE ENG.

I-40:

EXCAVATION
EMBALLMENT

* QUANTITIES FROM EXISTING SOLID ROCK EMBANKMENTS = 00% SWELL
** QUANTITIES FROM SOLID ROCK EXCAVATION = 40% SWELL
COMMON 20% SWEL.



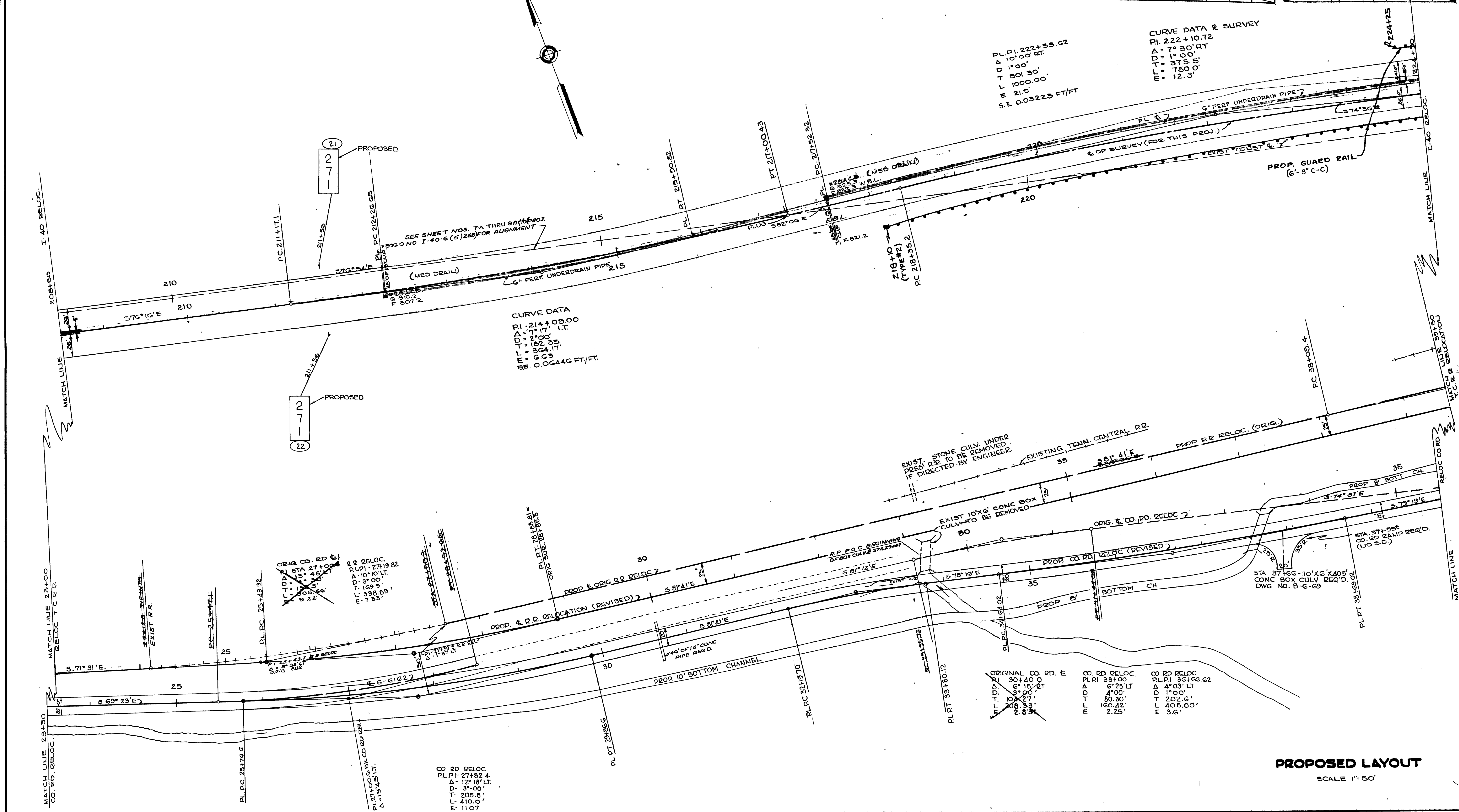
FED. ROAD DIST. NO.	T	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-G(56)271	1972	18	68

REVISED 2-7-62: RELOCATED R.R. & TO 25' RT OF ORIG. &; RELOCATED CO. RD. & AS REQUIRED, ALSO REVISED DRAINAGE DUE TO SAME.
REV. 2-19-62: CONSTRUCTION REVISION. SEE REV. ABOVE, DATED 2-7-62, SUBMITTED WITH R.O.W. REVISION.

FED. ROAD DIST. NO.	T	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-G(15)268 PAVING	1972	19	41

FED. ROAD DIST. NO.	T	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-G(20)271	1972	5-A	10

FED. ROAD DIST. NO.	T	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-G(22)271 (CONST)	1972	5-A	60



PROPOSED LAYOUT
SCALE 1"=50'

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
EXTERS		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	VIEWED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	SHEET 2		
NO	AKERS CHECKED		

FED. RD. DIST. NO.	FED. AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	1-40-G(22)271 (CONST.)	1921	58	10

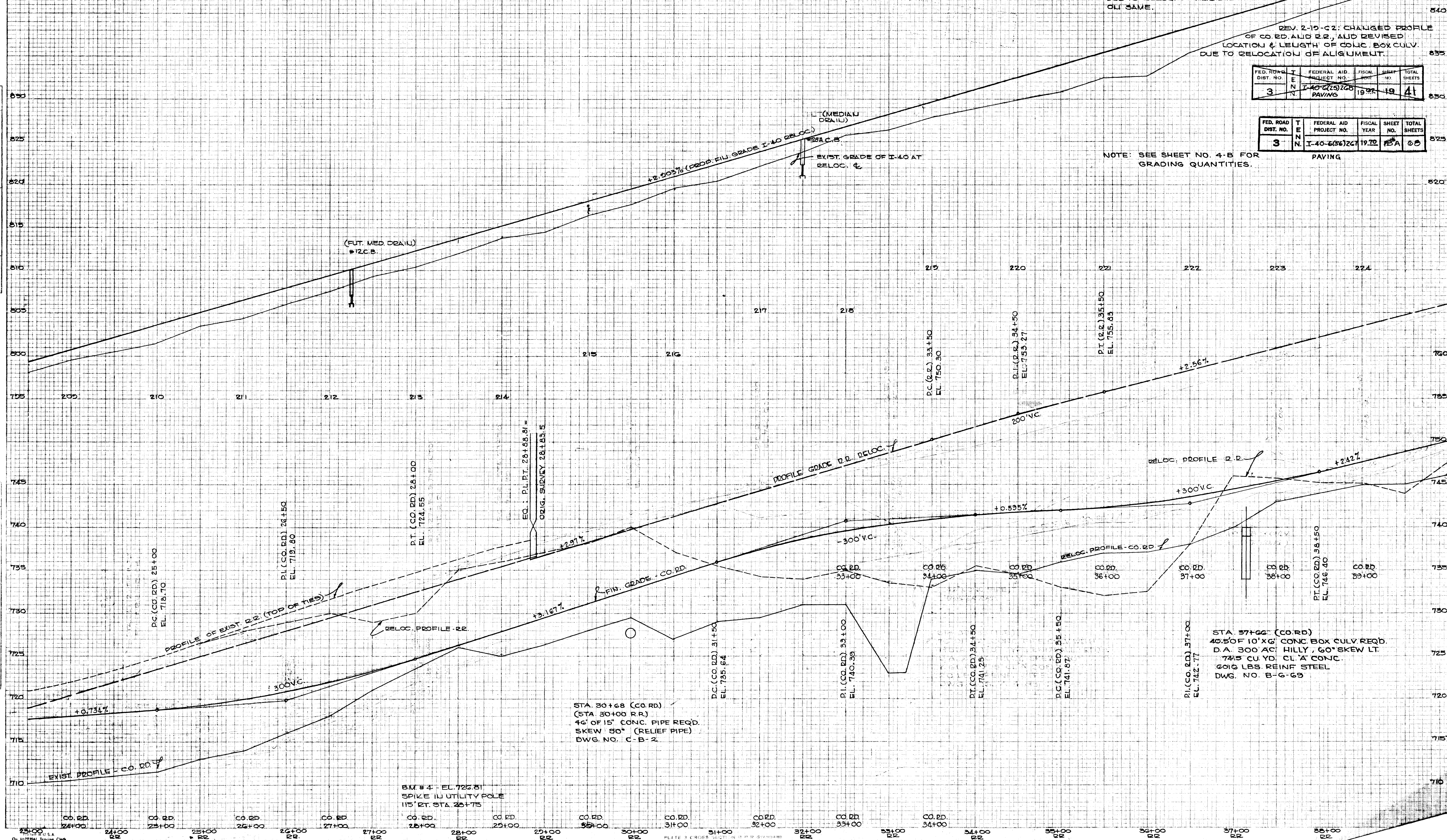
REVISED 2-7-62: GRADE ON
CO. RD. & R.R. CHANGED; LOC. OF
COLIC. BOX AND QUANTITIES CHANGED;
DUE TO RELOC. OF ALIGNMENT
ON SAME.

REV. 2-19-62: CHANGED PROFILE
OF CO. RD. AND R.R., AND REVISED
LOCATION & LENGTH OF CONC. BOX CULV.
DUE TO RELOCATION OF ALIGNMENT.

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	T-40-C(25)268 PAVING	1962	19	41

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	I-40-6(56)ZC7	1970	18A	60

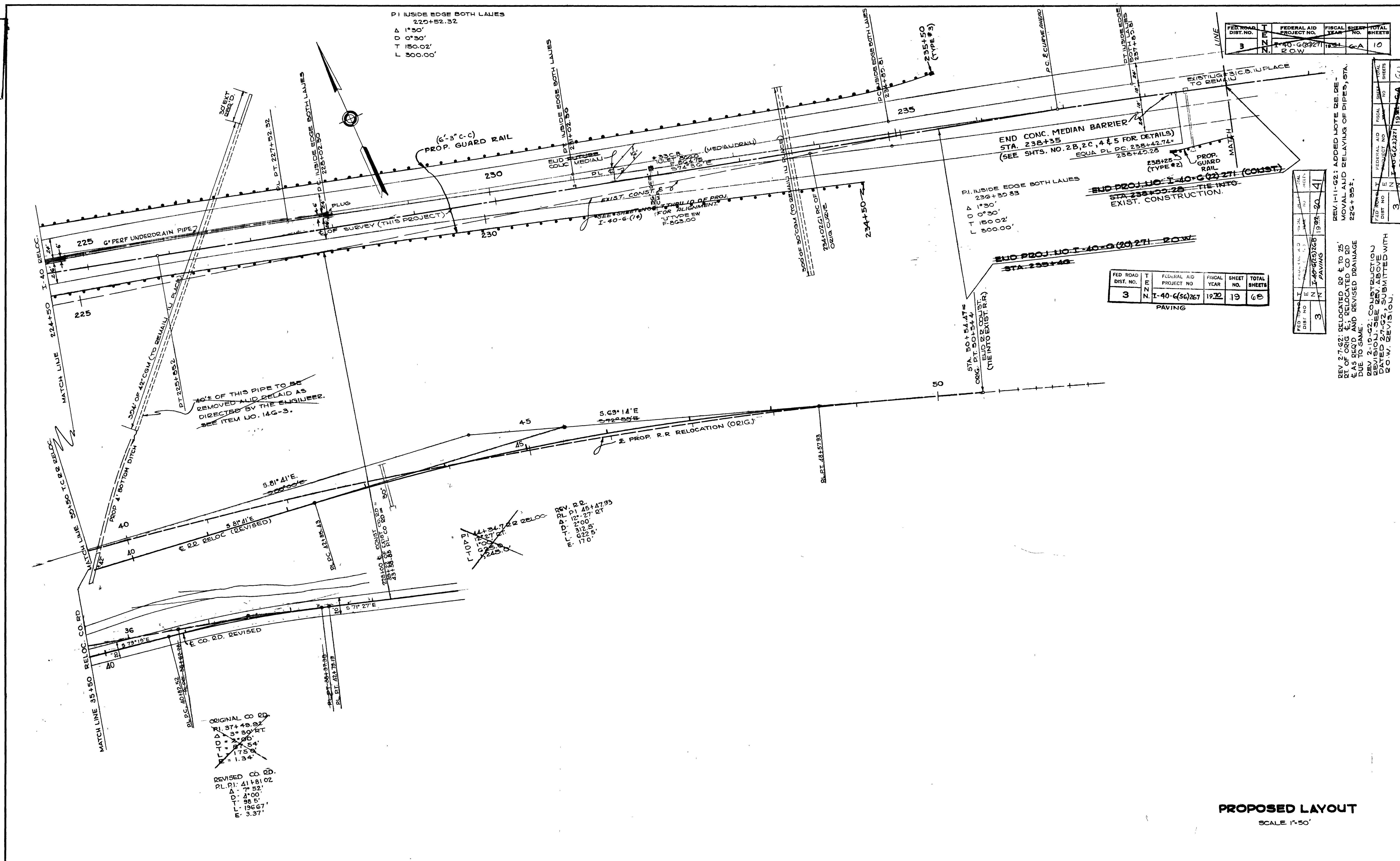
NOTE: SEE SHEET NO. 4-B FOR
GRADING QUANTITIES.



3	EDWARDS DIST NO	1	FEDERAL AID PROJECT NO	1951	FISCAL YEAR	SHEET NO	TOTAL SHEETS
			1-006(22)271	CONST.		6A	(2)

FED NO	1	FEEDBACK	1954	STAL	STAL
DISF NO	E	FEEDBACK	1954	STAL	STAL
3	N	FEEDBACK	1954	STAL	STAL
	N	FEEDBACK	1954	STAL	STAL

REV 2-19-02: CONSTRUCTION
REVISION. SEE REV. ABOVE
DATED 2-7-02, SUBMITTED WITH
D.O.W. REVISION.



PROPOSED LAYOUT
SCALE 1"=50'

TENN. STATE HIGHWAYS
Plans File IN-38
Divn. No. 38

DATE
BY
REVISIONS
NO. 1
NO. 2
NO. 3
NO. 4
NO. 5
NO. 6
NO. 7
NO. 8
NO. 9
NO. 10
NO. 11
NO. 12
NO. 13
NO. 14
NO. 15
NO. 16
NO. 17
NO. 18
NO. 19
NO. 20
NO. 21
NO. 22
NO. 23
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NO. 25
NO. 26
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NO. 28
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NO. 68
NO. 69
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NO. 78
NO. 79
NO. 80
NO. 81
NO. 82
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ORIGINAL
SURVEY
NOTED
NO. 1
NO. 2
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NO. 98
NO. 99
NO. 100

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(56)247	1970	19 A	68

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(22)271 (CONST)	1971	6 B	60

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(20)271 R.O.W.	1971	6 B	10

PAVING
REVISED 2-7-62: GRADE ON CO. RD. & R.R. CHANGED DUE TO DELOCATION OF ALIGNMENT ON SAME.
REV. 2-17-62: CHANGED GROUND PROFILE OF CO. RD. & R.R. DUE TO ALIGNMENT CHANGE.

P.C. 237+02.74
E.L. 884.54

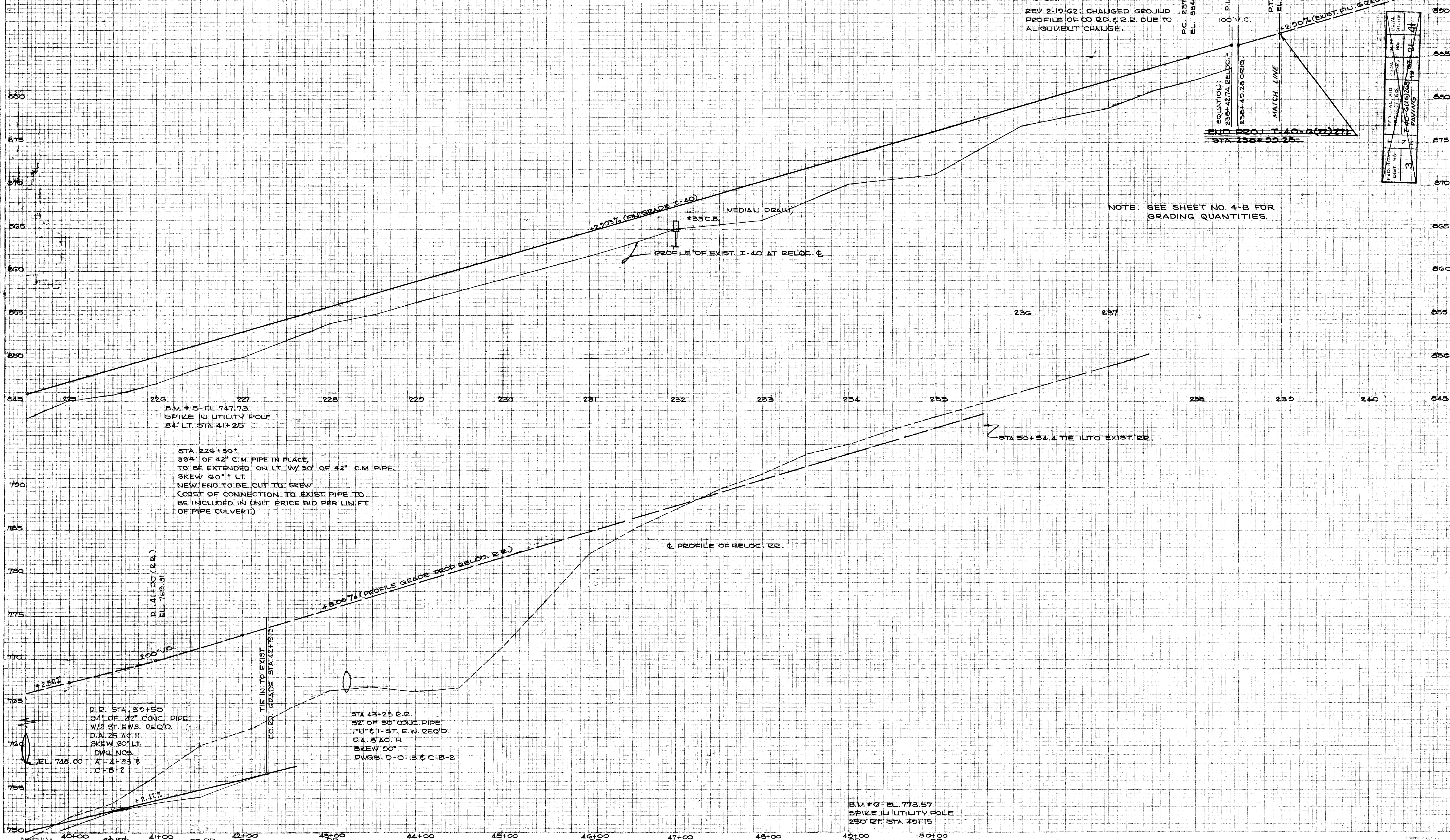
P.L. 238+42.74
E.L. 886.20
100' V.C.
EQUATION:
238+42.74 DELCO.
238+42.74 DELCO.
E.L. 886.20

P.T. 238+00.28
E.L. 887.74

END PROJ. I-40-6(22)271
STA. 238+00.28

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(20)271 PAVING	1971	6 B	10

NOTE: SEE SHEET NO. 4-B FOR GRADING QUANTITIES.



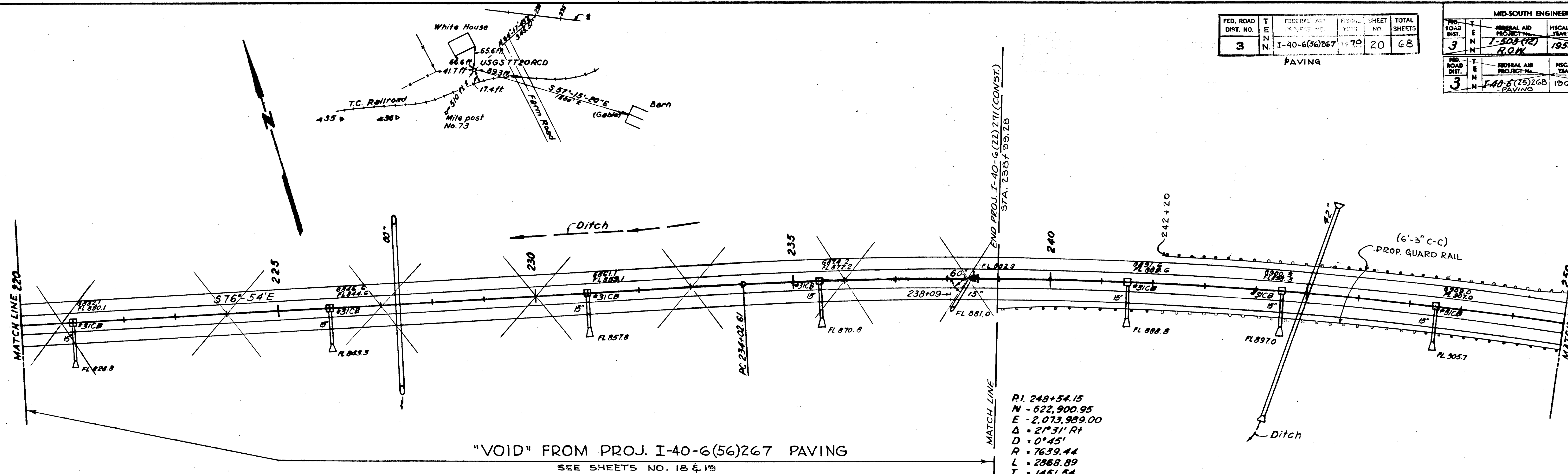
PLAN	BY		DATE
SUBMITTED			
PLOTTED			
ALIGNMENT CHECKED			
RT OF WAY CHECKED			
NO			

NO.	PROFILE NOTE BOOK	SURVEYED _____ PLOTTED _____ GRADES CHECKED _____ 8 M. NOTED _____ STRUCTURE NOTATIONS CHK'D _____	BY _____	DATE _____

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	I-40-6(56)267	1970	20	68

MID-SOUTH ENGINEERING CO.					
FED. ROAD DIST.	TENN.	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	1-508 (72) R.O.M.	1958	13-A	18

FED. ROAD DIST.	TENN.	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	E-40-6 (15) 268	1962	22	41

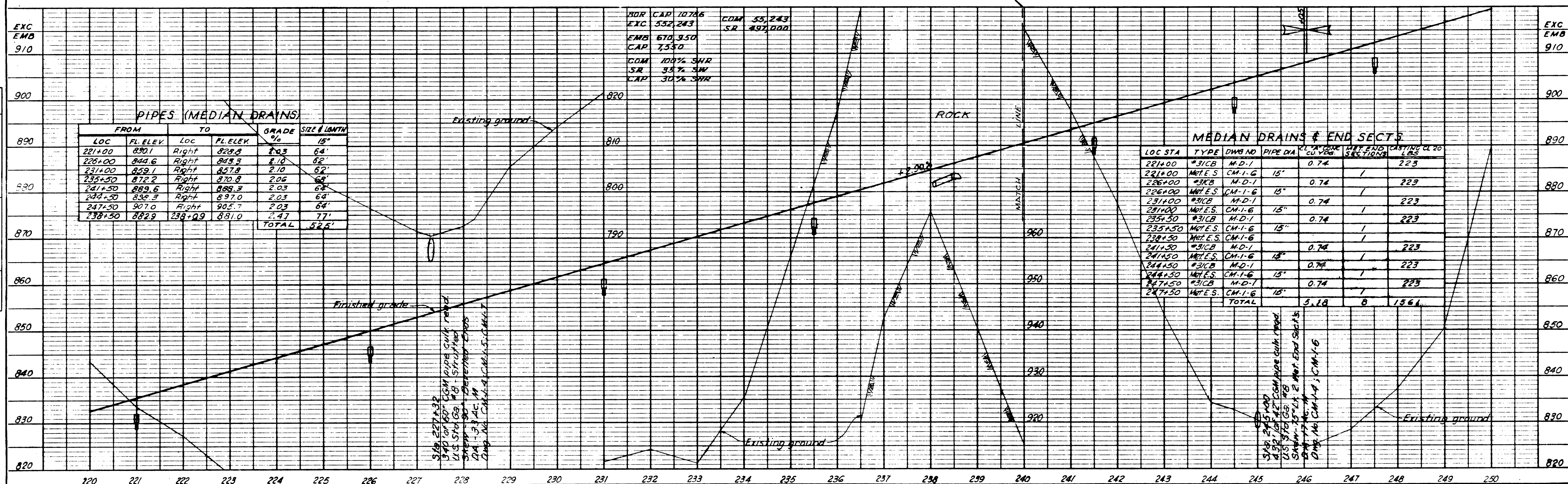


USGTT 20 RCD EI. 774.61
N-629,171.34
E-2,071,871.78
216± Rt. sta. 227+35±
USGS monument

BOR	CAP	10746			
EXC	552,243		COM	55,243	
			SR	497,000	
FMB	670,950				
CAP	7330				
COM	100% SHR				
SR	35% SW				
CAP	30% SHR				

PIPES (MEDIAN DRAINS)					
FROM		TO		GRADE %	SIZE & LENGTH
LOC	FL. ELEV.	LOC	FL. ELEV.		15"
221+00	830.1	Right	828.8	2.03	64'
226+00	844.6	Right	843.3	1.10	62'
231+00	859.1	Right	857.8	2.10	62'
235+50	872.2	Right	870.8	2.06	68'
241+50	889.6	Right	888.3	2.03	64'
244+50	898.3	Right	897.0	2.03	64'
247+50	907.0	Right	905.7	2.03	64'
238+50	882.9	239+09	881.0	2.47	77'
				TOTAL	525'

MEDIAN DRAINS & END SECTS						
LOC STA	TYPE	DWG NO	PIPE DIA	CL. TO TOP OF CURB	SECT END. SECTIONS	CASTING CL
221+00	31CB	M.D.-1		0.74		223
221+00	MET.E.S.	CM-1-G	15"		1	
226+00	31CB	M.D.-1		0.74		223
226+00	MET.E.S.	CM-1-G	15"		1	
231+00	31CB	M.D.-1		0.74		223
231+00	MET.E.S.	CM-1-G	15"		1	
235+50	31CB	M.D.-1		0.74		223
235+50	MET.E.S.	CM-1-G	15"		1	
239+50	MET.E.S.	CM-1-G			1	
241+50	31CB	M.D.-1		0.74		223
241+50	MET.E.S.	CM-1-G	15"		1	
244+50	31CB	M.D.-1		0.74		223
244+50	MET.E.S.	CM-1-G	15"		1	
247+50	31CB	M.D.-1		0.74		223
247+50	MET.E.S.	CM-1-G	15"		1	
	TOTAL			5.68	8	1561



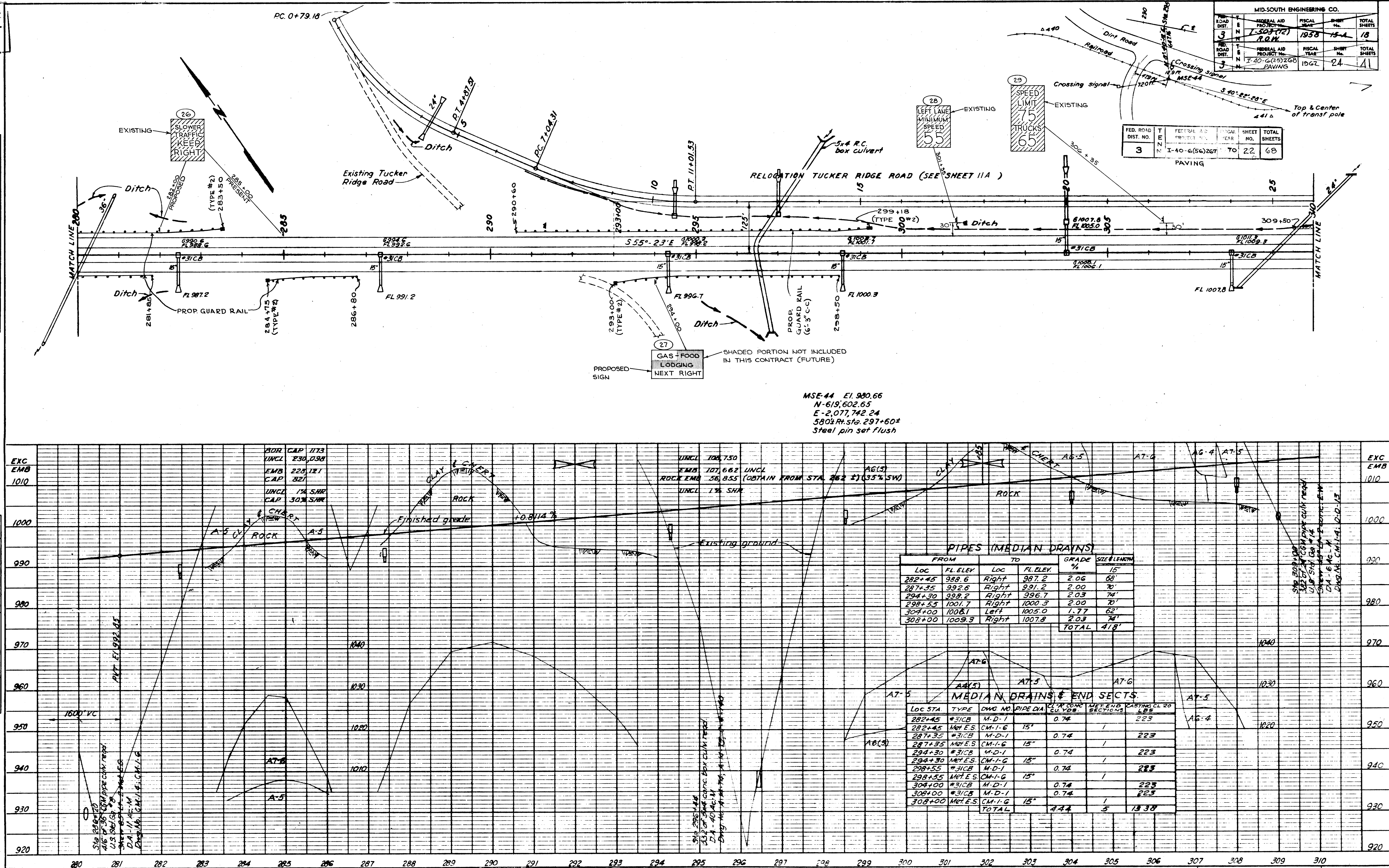
MID-SOUTH ENGINEERING CO.					
FED. ROAD DIST.	T E N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	2	I-503 (72) R.O.N.	1958	14-A	18
FED. ROAD DIST.	T E N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	2	I-40-6(72)728 PAVING	1962	23	41

P.I. 248+54.15
N - 622,900.95
E - 2,073,989.00
 $\Delta = 21^{\circ}31' Rt$
D = 0'45'
R = 7639.44
T = 1451.54
L = 2868.89
E = 136.37
S.E. = 002418 FT/FT

MSE-45 E1. 881.81
N-621, 462.14
E-2,075,043.37
585'± Rt. Sta. 265+00±
Steel pin set flush

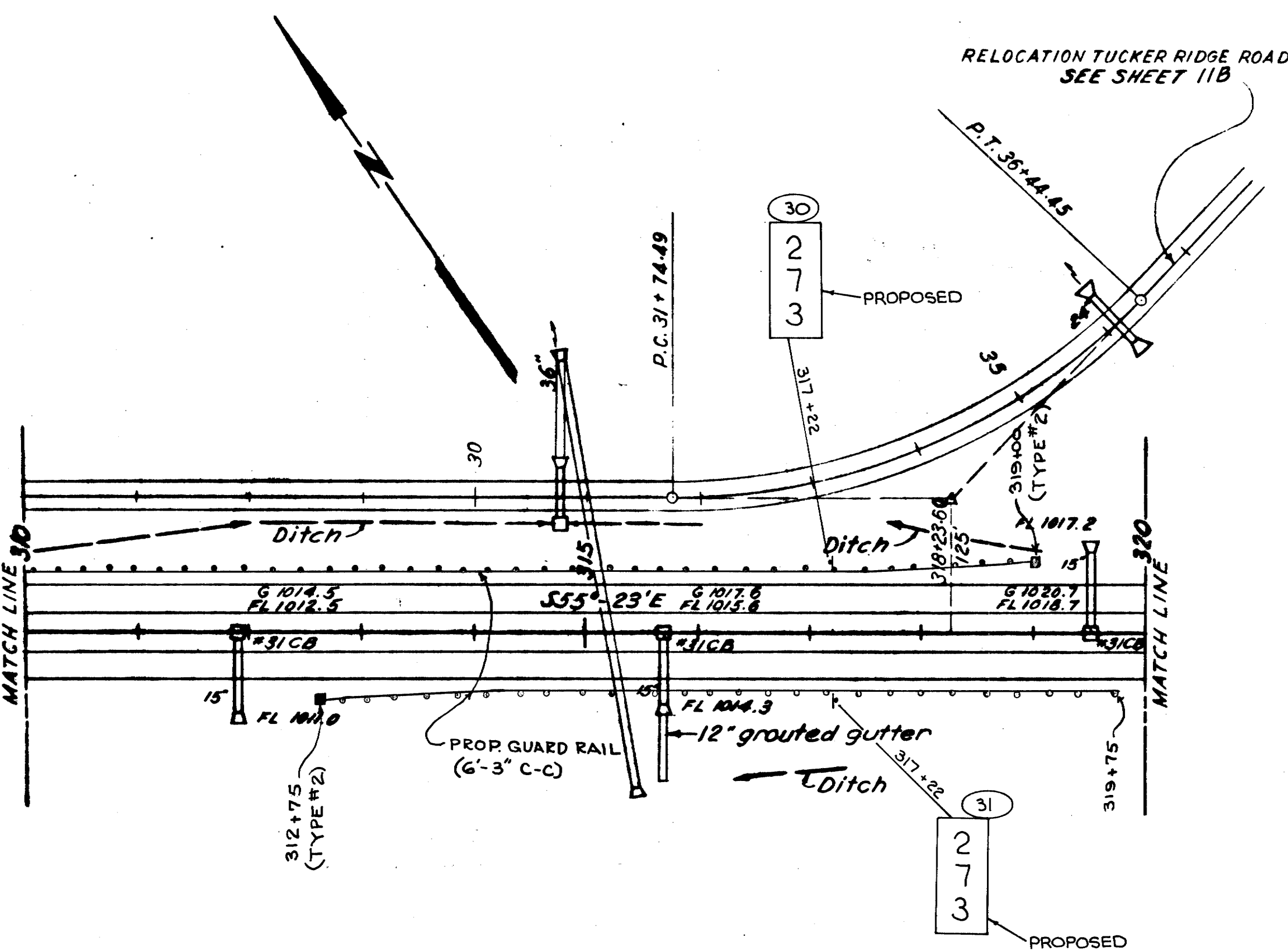


PROFILE		BY	DATE
SURVEYED			
PLOTTED			
NOTES CHECKED			
DRAWN			
STATIONING NOTATION CHECKED			
NO.			



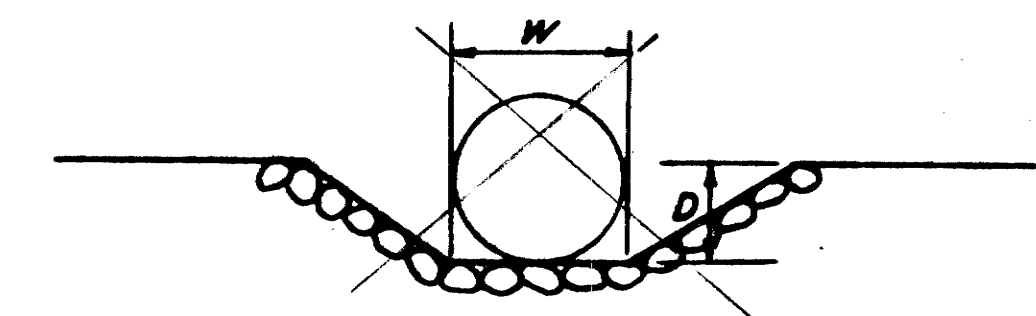
PLAN	DATE
SYNOPSIS	
NOTE BOOK	
NO.	

PROFILE	DATE
SYNOPSIS	
NOTE BOOK	
NO.	



NOTE:
Flare upper end of gutter
to fit metal end section

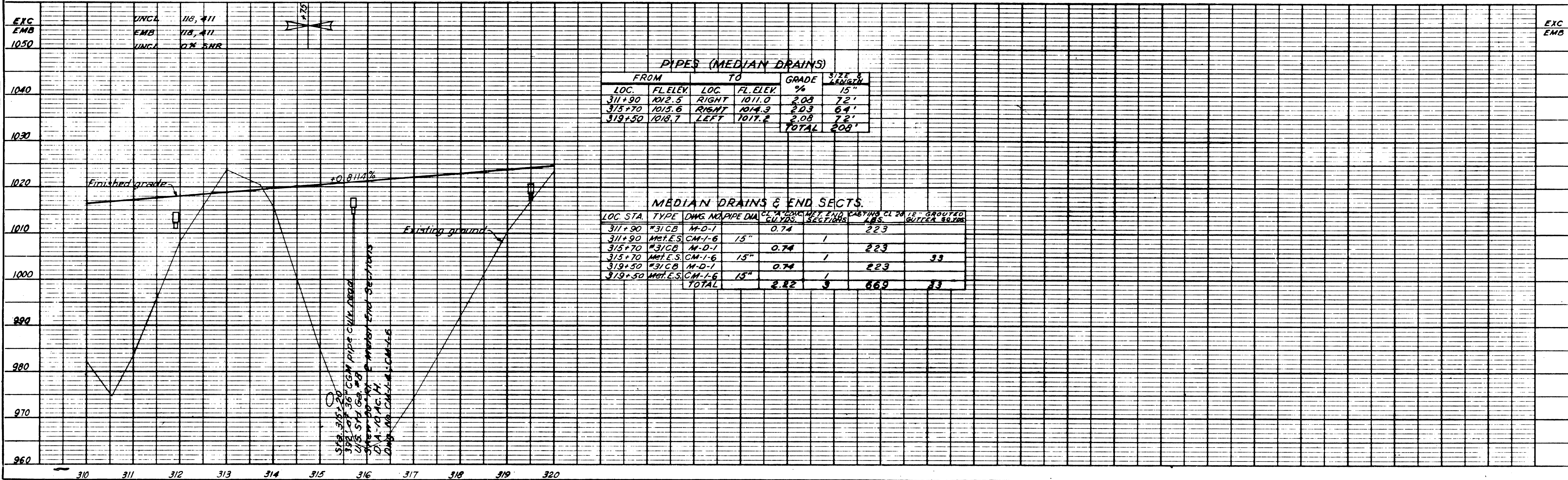
$$W = \text{Pipe Dia.} + 6"$$
$$D = \frac{\text{Pipe Dia.} + 3"}{2}$$



DETAIL OF 12" GROUTED RUBBLE GUTTER

MID-SOUTH ENGINEERING CO.				
FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	N	I-503-721	1953	19
PAVING				

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(25)267	1967	25	41
PAVING					

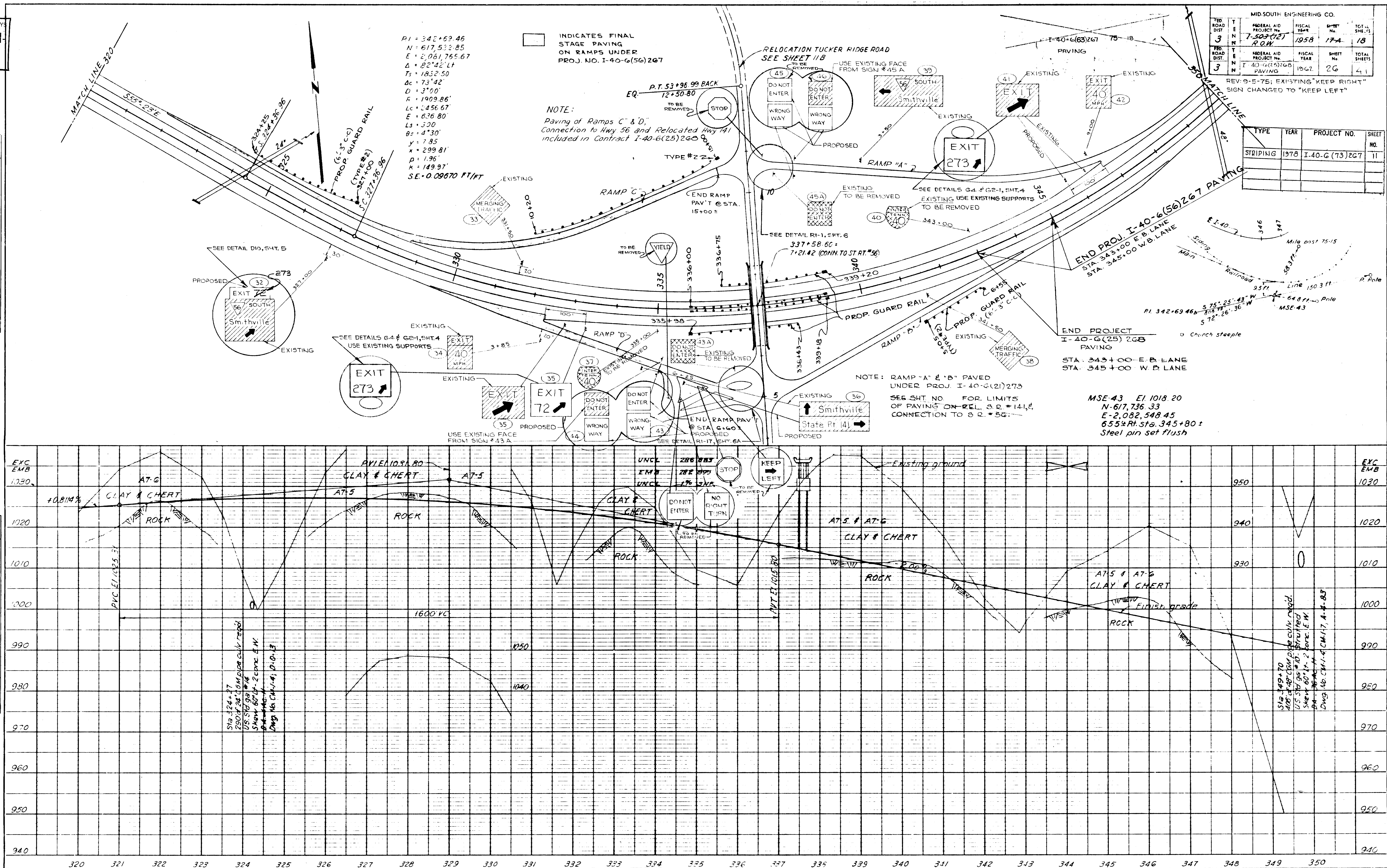


PIPES (MEDIAN DRAINS)					
FROM		TO		GRADE	SIZE & LENGTH
LOC.	F.L.ELEV.	LOC.	F.L.ELEV.	%	
311+90	1012.5	RIGHT	1011.0	2.08	72'
315+70	1015.6	RIGHT	1014.3	2.03	64'
319+50	1018.7	LEFT	1017.2	2.08	72'
TOTAL					208'

MEDIAN DRAINS & END SECTS.					
LOC. STA.	TYPE	DWG. NO.	PIPE DIA.	CL. TO DRAIN	CL. TO 12\"/>

PLAN	BY		DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT OF WAY CHECKED		
NO			

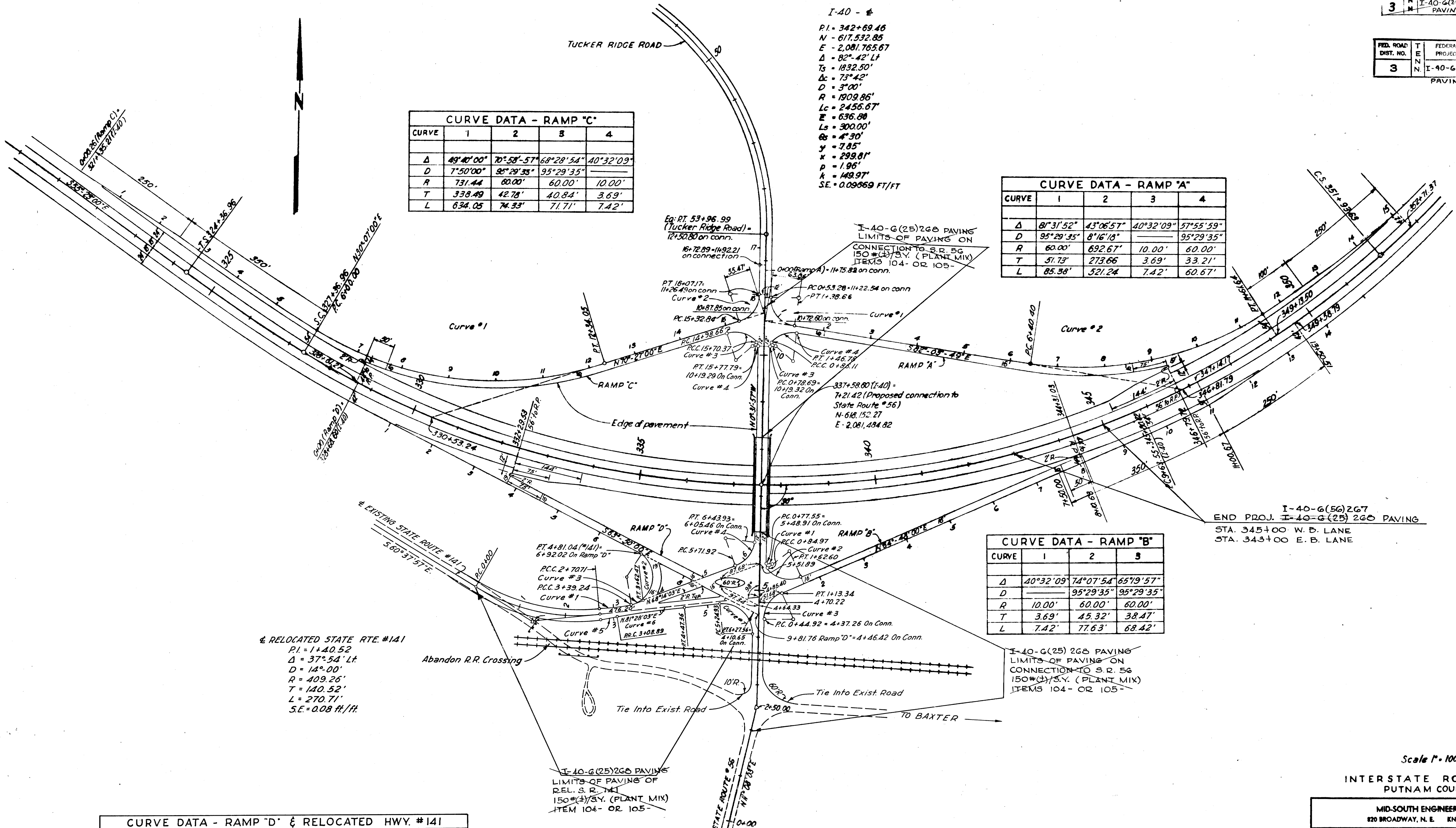
PROFILE	SURVEYED	BY	DATE
NOTE BOOK	01 JUL		
NO	GRANDES CHECKED		
	BANK NOTED		
	STRUCTURE NOTATIONS COMED		



TENN. STATE HIGHWAYS
File IN
No. ///

MID-SOUTH ENGINEERING CO.					
PED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-G(25)268	1967	27	41
PAVING					

PED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-G(56)267	1970	24A	68
PAVING					



CURVE DATA - RAMP "C"				
CURVE	1	2	3	4
Δ	49°40'00"	70°58'57"	68°28'54"	40°32'09"
D	7°50'00"	95°29'35"	95°29'35"	
R	731.44	60.00'	60.00'	10.00'
T	338.49	42.78'	40.84'	3.69'
L	634.05	74.33'	71.71'	7.42'

I-40 - E
P.I. = 342+69.46
N = 617.532.85
E = 2,081.765.67
Δ = 82°42' Lt
Ts = 1832.50'
Δc = 73°42'
D = 3°00'
R = 1809.86'
Lc = 2456.67'
E = 636.88
Ls = 300.00'
Os = 4°30'
y = 7.85'
x = 299.81'
p = 1.96'
k = 149.97'
SE = 0.0969 FT/FT

CURVE DATA - RAMP "A"				
CURVE	1	2	3	4
Δ	8°31'52"	43°06'57"	40°32'09"	57°55'59"
D	95°29'35"	8°16'18"		95°29'35"
R	60.00'	692.67'	10.00'	60.00'
T	51.73'	273.66'	3.69'	33.21'
L	85.38'	521.24'	7.42'	60.67'

CURVE DATA - RAMP "B"			
CURVE	1	2	3
Δ	40°32'09"	74°07'54"	65°19'57"
D		95°29'35"	95°29'35"
R	10.00'	60.00'	60.00'
T	3.69'	45.32'	38.47'
L	7.42'	77.63'	68.42'

CURVE DATA - RAMP "D" & RELOCATED HWY. #141							
CURVE	1	2	3	4	5	6	7
Δ	9°52'57"	135°25'	3°21'	68°46'	5°11'34"	5°11'34"	98°00'
D	14°25'22"	95°29'35"	14°25'22"	95°29'35"	13°36'04"	3°45'	95°29'35"
R	397.26'	60.00'	397.26'	60.00'	421.26'	1527.89'	60.00'
T	34.35'	146.36'	11.62'	41.06'	19.10'	69.28'	69.02'
L	68.53'	141.80'	23.23'	72.01'	38.18'	138.47'	102.63'

RELOCATED STATE RTE. #141
P.I. = 1+40.52
Δ = 37°54' Lt
D = 14°00'
R = 409.26'
T = 140.52'
L = 270.71'
SE = 0.08 H/H.

I-40-G(56)267
END PROJ. I-40-G(25) 268 PAVING
STA. 345+00 W.D. LANE
STA. 343+00 E.B. LANE

Scale 1" = 100'

INTERSTATE ROUTE I-40
PUTNAM COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N.E. KNOXVILLE, TENNESSEE

SILVER POINT INTERCHANGE PROPOSED LAYOUT

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR. R.W.P.	DATE	503-3-407 ro
CHK'D	11-20-57	
APP'D		

FED. ROAD DIST. NO.	T E	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(56)267	1970	24 B	68

FED. ROAD DIST. NO.	T E	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(56)267	1970	28	41

REV. 10-29-63: LAYOUT AT JUNCTION S.R. 141, RAMP D & TUCKER RIDGE ROAD CHANGED SO AS TO REFLECT AS-BUILT CONDITION

± I-40
PI = 342+69.46
N = 617.532.85
E = 2,081.765.67
Δ = 82° 42' Lt
Ts = 1832.50'
Δc = 73° 42'
D = 3° 00'
R = 1909.86'
Lc = 2456.67'
E = 636.80'
Ls = 300.00'
Θs = 4° 30'
Y = 7.85'
X = 299.81'
p = 1.96'
k = 149.97'
SE = 0.09669 FT/FT

TRAFFIC DATA
1975 - D.H.V.

RELOCATED STATE ROUTE #141

RAMP "C"
PAV'T.
Bit.

RAMP "D"
PAV'T.
Bit.

Omit
Mountable Curb
Detached

± RELOCATED STATE ROUTE #141
PI = 40.52
Δ = 37° 54' Lt
D = 14° 00'
R = 409.26'
T = 140.52'
L = 270.71'

END RAMP PAVING
STA. 6+60 ±

NOTE: THIS SHEET IS FOR REFERENCE ONLY TO SHOW FUTURE FINISHED GRADE. ALL OTHER INFORMATION IS TO BE DISREGARDED ON PROJ. I-40-6(25)267 PAVING.
I-40-6(56)267

NOTES:
1. Contours denote finished elevations.

Scale: 1" = 50'

INTERSTATE ROUTE I-40
PUTNAM COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

SILVER POINT INTERCHANGE
PAVING PLAN
SHEET NO. 1

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR. _____
CHK'D. _____
APP'D. _____

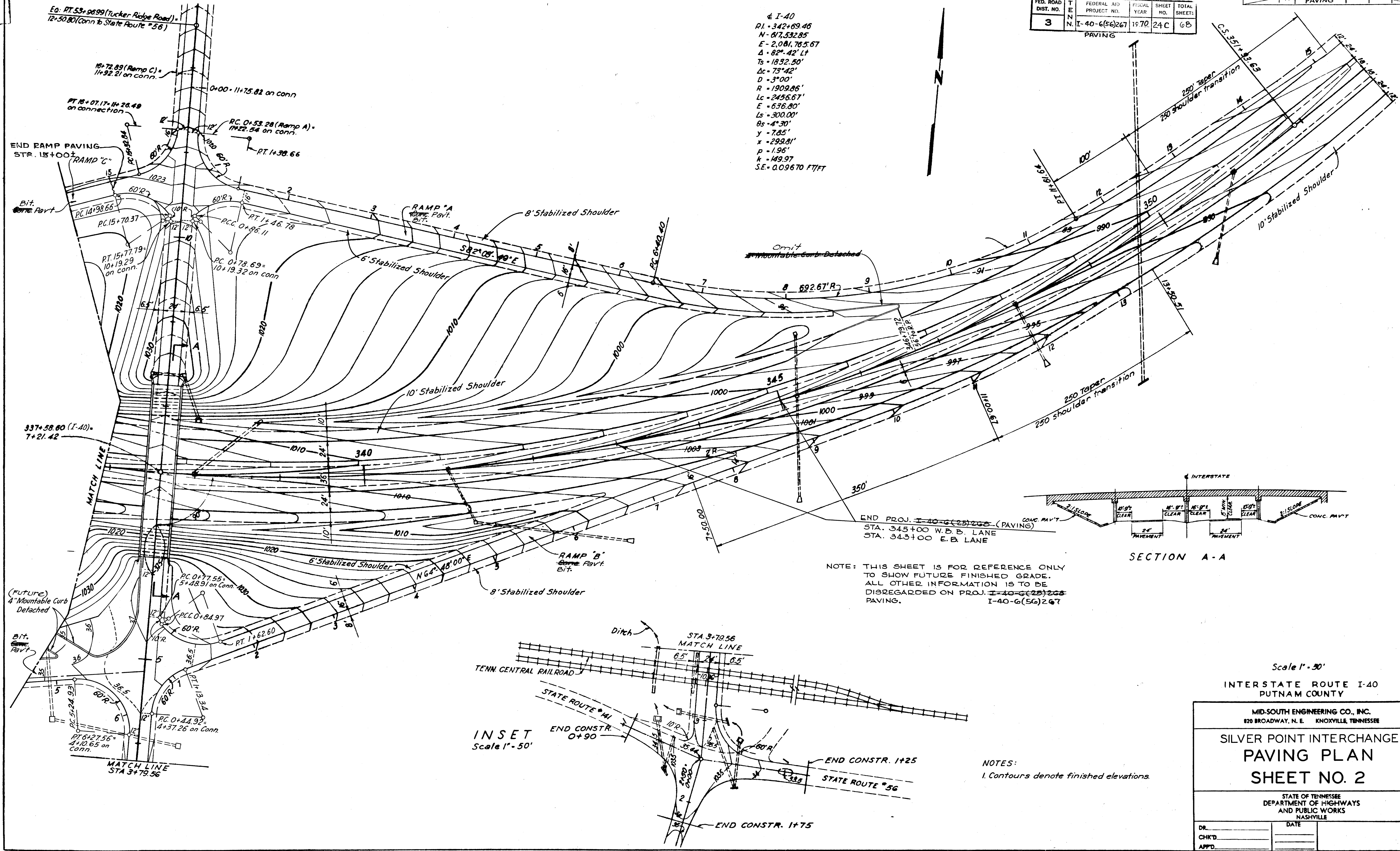
DATE _____

REVISED 10-29-63: LAYOUT OF INTERSECTION OF TUCKER
RIDGE ROAD & RAMP D CHANGED TO SHOW AS BUILT
CONDITION

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	F-40-6(25)268	1962	29	41
PAVING					

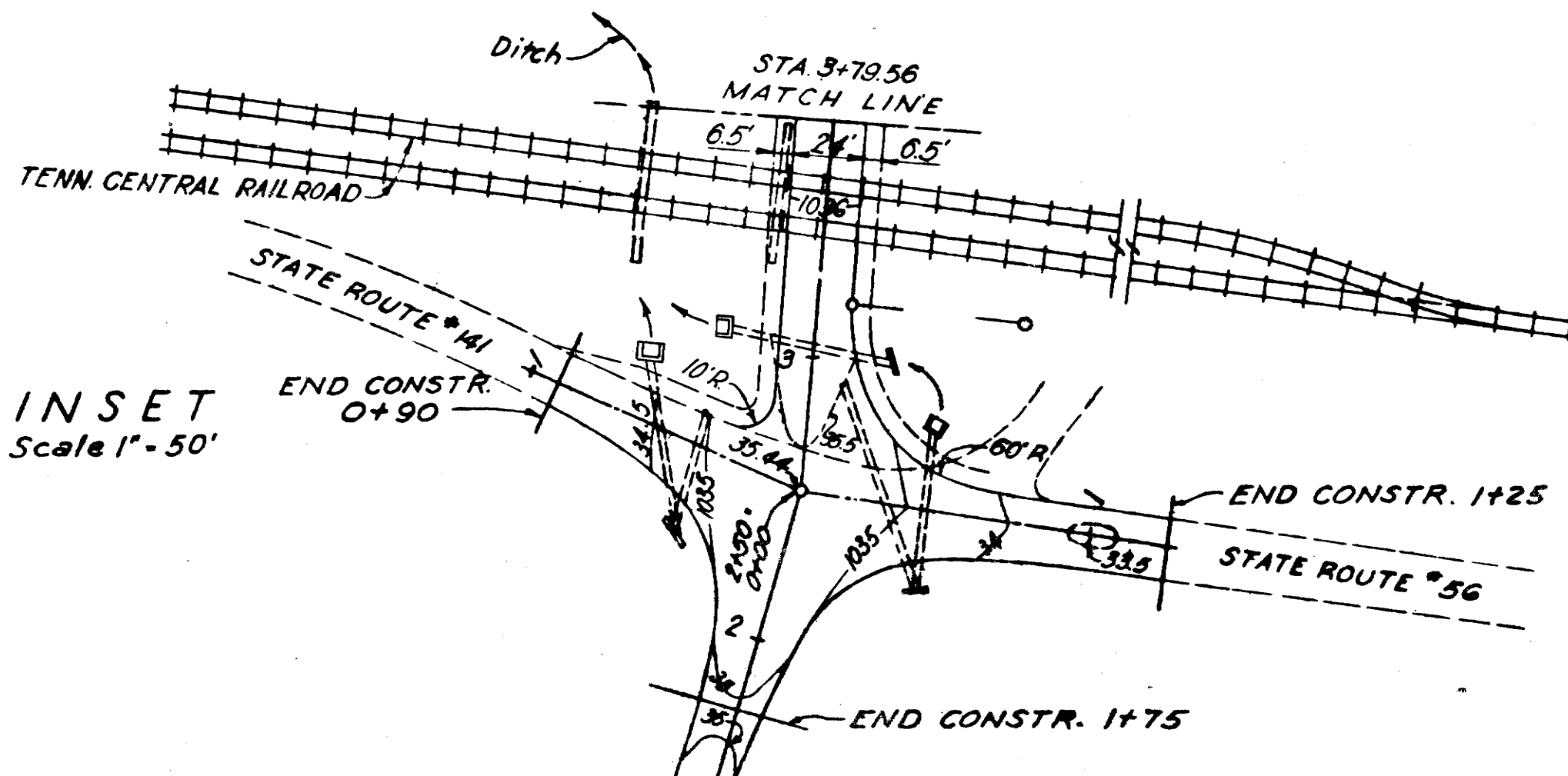
FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(56)267	1970	24C	68
PAVING					

± I-40
PI = 342+69.46
N = 617.53285
E = 2,081.76567
Δ = 82° 42' 11"
Ts = 1832.50'
Δc = 75° 42'
D = 3° 00'
R = 1909.86'
Lc = 2456.67'
E = 636.80'
Ls = 300.00'
Bs = 4° 30'
Y = 7.85'
X = 293.81'
p = 1.96'
k = 149.97
SE = 0.09670 FT/FT



NOTE: THIS SHEET IS FOR REFERENCE ONLY
TO SHOW FUTURE FINISHED GRADE.
ALL OTHER INFORMATION IS TO BE
DISREGARDED ON PROJ. I-40-6(25)268
PAVING.
I-40-6(56)267

SECTION A-A



INSET
Scale 1" = 50'

NOTES:
1. Contours denote finished elevations.

Scale 1" = 30'

INTERSTATE ROUTE I-40
PUTNAM COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N.E. KNOXVILLE, TENNESSEE

SILVER POINT INTERCHANGE
PAVING PLAN
SHEET NO. 2

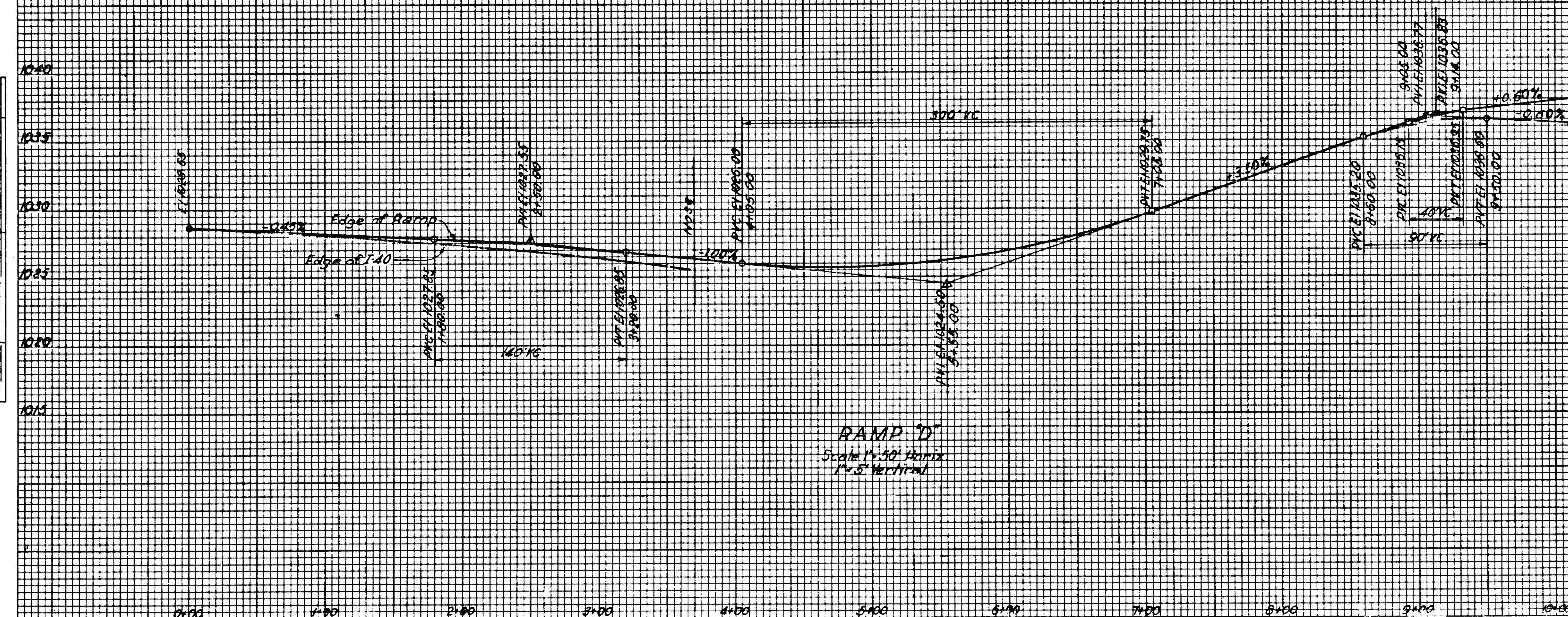
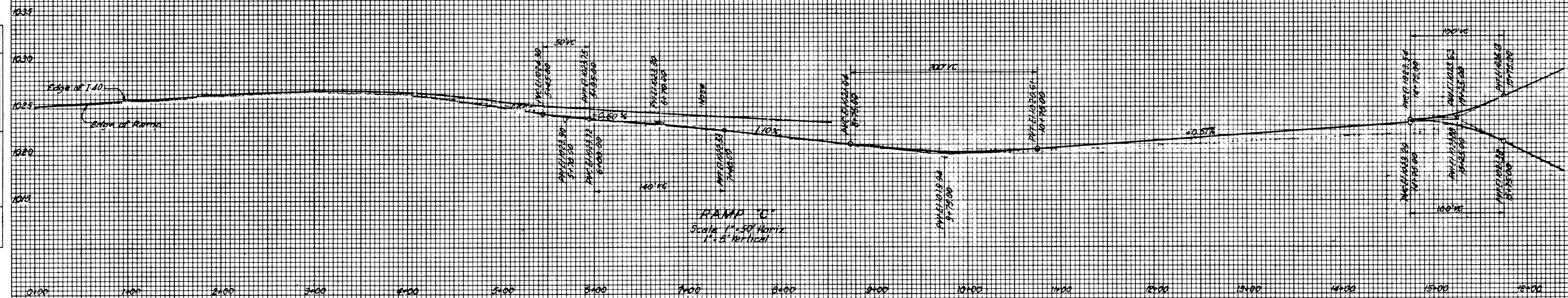
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR.	DATE
CHK'D	
APP'D	

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-6(50)267 PAVING	1970	24 D	41

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	I-40-6(25)268 PAVING	1967	30	41

PROFILE OF RAMPS 'C' & 'D'
SILVER POINT INTERCHANGE
STA 337+58.00



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
REPLATE		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
REPLATE		
NOTE BOOK		
NO.		

PROFILE OF PROPOSED CONN.
TO STATE ROUTE NO. 56
STA 337+58.60

FINAL SURVEY	DATE
NO. 111	

ORIGINAL SURVEY	DATE
NO. 111	

