

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	1
FEDERAL AID PROJECT		CONTRACT 97641		

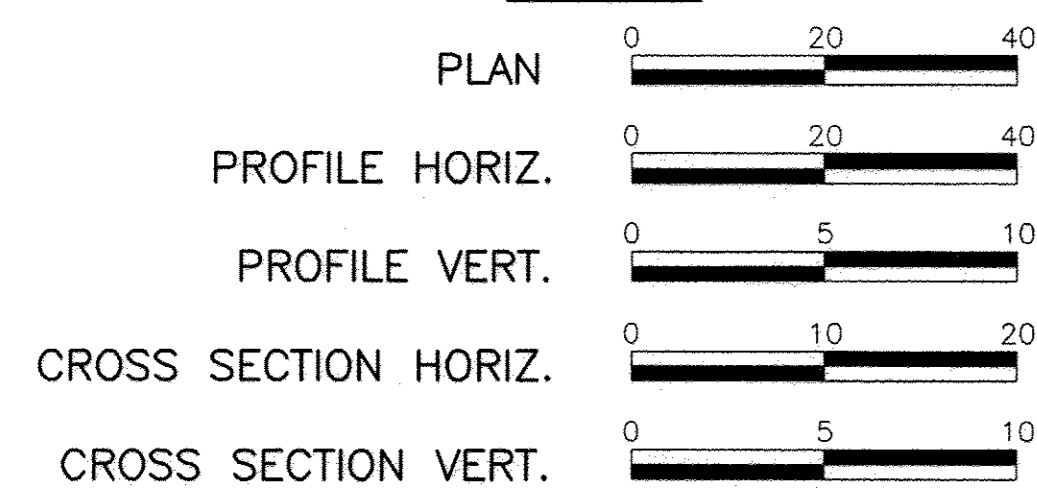
PLANS FOR PROPOSED LOCAL AGENCY PROJECT

SAFE ROUTES TO SCHOOL
VARIOUS STREETS
SECTION 12-00015-00-SW
PROJECT NO. SRTS-4009(146)
VILLAGE OF SHILOH, ILLINOIS
ST. CLAIR COUNTY, ILLINOIS
JOB NO. C-98-341-12

INDEX OF SHEETS

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- 6.-12. PLAN AND PROFILES
13. SIDEWALK RAMP DETAILS
14. DRAINAGE PROFILES
15. MISCELLANEOUS DETAILS
- 16.-25. CROSS SECTIONS

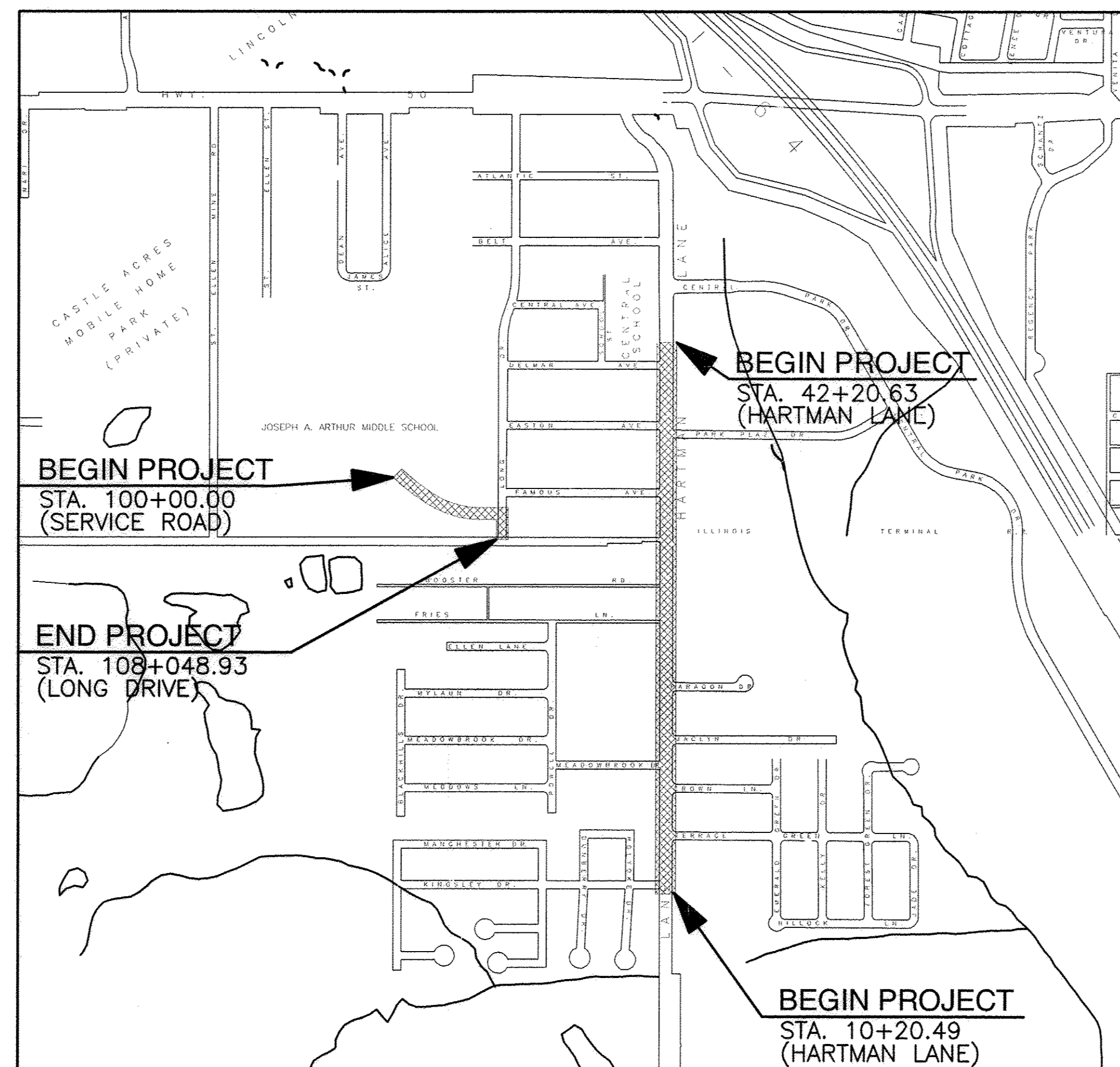
SCALES:



DESIGN DESIGNATION

HARTMAN LANE

CLASSIFICATION = MAJOR COLLECTOR
DESIGN SPEED = 30 MPH
DESIGN YEAR ADT (2035) = 14,570



LOCATION MAP
NOT TO SCALE

HARTMAN LANE - STA. 10+20.49 TO STA. 42+20.63	3200.14 FT. = 0.606 MILES
SERVICE ROAD - STA. 100+00.00 TO 108+48.93	848.93 FT. = 0.161 MILES
NET LENGTH OF IMPROVEMENT	4049.07 FT. = 0.767 MILES

PREPARED BY:

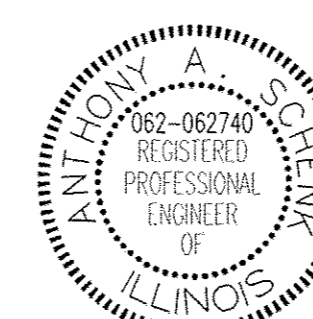
RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
4 INDUSTRIAL DRIVE
FREEBURG, ILLINOIS 62243
(618) 539-3178

REGIONAL OFFICE
201 SOUTH LOCUST STREET
CENTRALIA, ILLINOIS 62801
(618) 532-1992

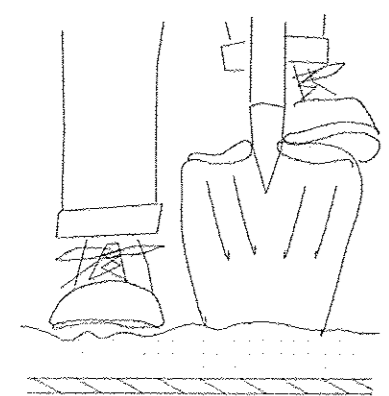


ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY OF ST. CLAIR DEPARTMENT OF ROADS AND BRIDGES	
REVIEWED	2/8/2017 DATE James V. Fields, P.E., COUNTY ENGINEER
APPROVED	2/8/17 DATE James A. Varnier II, MAYOR, VILLAGE OF SHILOH
PASSED	2/22/17 DATE District Eight Engineer of Local Roads & Streets
RELEASING FOR BID BASED ON LIMITED REVIEW	2/22/17 DATE Region Five Engineer



Anthony A. Schenk
2/8/17
Date of Signing
1/30/17
Date of License Expiration

HOLD IT ! CALL BEFORE YOU DIG !
Phone J.U.L.I.E.



The owner would like to remind you that underground utility facilities can be damaged by shovel blades or other digging equipment. You can prevent damage or possible personal danger by phoning 800/892-0123 at least 48 hours before you dig. That's the toll-free number for "J.U.L.I.E.", which stands for Joint Utilities Location Information for Excavators.

If there are any pipes, cables, lines or mains in the excavation area, utility personnel will be out to mark the facilities so you can work around them.

Toll Free 800/892-0123

GENERAL NOTES

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9189	12-00015-00-SW	ST. CLAIR	25	2
FEDERAL AID PROJECT			CONTRACT 97641	

1. ALL CONSTRUCTION SHALL BE ACCORDING TO ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016.
2. THE CONTRACTOR SHALL TAKE CARE NOT DAMAGE THE EXISTING EDGE LINE DURING HMA MILLING AND OTHER OPERATIONS. IF THE EDGE LINE IS DAMAGED THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING IT TO ITS ORIGINAL CONDITION WITH NO ADDITIONAL COMPENSATION.
3. THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES AT LOCATIONS SHOWN ON THE CROSS SECTIONS AND AS DETERMINED BY THE ENGINEER.
4. THE TOP 6 INCHES OF ALL NECESSARY BACKFILL SHALL BE FREE FROM ANY ROCKS OR FOREIGN DEBRIS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING OF MATERIALS AND CONSTRUCTION.
6. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

APPLICATION RATES

<u>SEEDING</u>	
MULCH METHOD 2	2 Tons/acre
NITROGEN FERTILIZER NUTRIENT	90 Lbs/acre
PHOSPHORUS FERTILIZER NUTRIENT	90 Lbs/acre
POTASSIUM FERTILIZER NUTRIENT	90 Lbs/acre
TEMPORARY EROSION CONTROL SEEDING	100 Lbs/acre
<u>PAVING</u>	
ALL HOT-MIX ASPHALT	0.056 TONS/SQ. YD./INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.050 LBS/SQ FT (FOG COAT)
AGGREGATE BASE COURSE	0.0555 TONS/SQ. YD./INCH
7. IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
8. THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS PRIOR TO REMOVAL AND REPLACEMENT OF DRIVEWAYS, PROVIDING A MINIMUM OF 72 HOURS OF NOTICE.
9. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE 48"x48".

10. LANDSCAPING ITEMS WITHIN THE LIMITS OF CONSTRUCTION WHICH MUST BE REMOVED SHALL BE SALVAGED FOR RE-USE OR DISPOSAL AS DIRECTED BY THE ENGINEER. REMOVAL AND/OR SALVAGE OF LANDSCAPING ITEMS SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
11. ALL EXISTING SIGNS WHICH INTERFERE WITH THE IMPROVEMENTS NOT NOTED FOR REMOVAL SHALL BE REMOVED AND REINSTALLED AT THEIR PERMANENT LOCATIONS AS DIRECTED BY THE ENGINEER IN THE FIELD. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. ANY DAMAGE TO THE SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
12. AN ESTIMATED 50 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF MAINTAINING ACCESS TO PRIVATE PROPERTY AND LOCAL TRAFFIC THROUGHOUT THE CONSTRUCTION OPERATIONS.
13. PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURBS AFTER NOVEMBER 1 AND PRIOR TO APRIL 15.
14. CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, CURBS, OR CURB AND GUTTERS, WHEN TRANSITIONS FROM ONE TYPE TO ANOTHER AS SHOWN IN THE PLANS, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE TYPE SPECIFIED IN THE PLAN SCHEDULE.
15. WHERE PCC CURB AND GUTTER IS TO BE CONSTRUCTED ADJACENT TO EXISTING CONCRETE PAVEMENT OR PCC CURB AND GUTTER, THE CONTRACTOR SHALL DRILL AND GROUT NO. 6 X 30 EPOXY COATED TIE BARS AT 30" CENTERS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE COMBINATION CONCRETE CURB AND GUTTER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
16. HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR THE CONSTRUCTION OF PCC DRIVEWAYS. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PCC DRIVEWAY PAVEMENT OF THICKNESS SPECIFIED. IN ADDITION THE CONTRACTOR SHALL STAGE THE WORK IN SUCH A WAY THAT VEHICULAR ACCESS TO THE PARKING AREA AT ST. CLAIR TENNIS IS MAINTAINED AT ALL TIMES. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY REQUIRED STAGING IN ORDER TO COMPLY WITH THE ABOVE.
17. EXISTING UTILITIES SHOWN ARE LOCATED FROM OR INFORMATION PROVIDED BY THE RESPECTIVE UTILITIES AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXACT LOCATION OF WHICH ARE UNKNOWN AND NOT SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE UTILITIES BEFORE WORK IS BEGUN. FIELD MARKINGS OF UNDERGROUND UTILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 1-800-892-0123 OR BY DIRECT CONTACT WITH NON-MEMBERS OF J.U.L.I.E.

<u>UTILITY TYPE</u>	<u>NAME OF UTILITY</u>	<u>PHONE NUMBER</u>	<u>CONTACT NAME</u>
ELECTRIC	AMEREN IP	618-236-6279	LANGSTON ROSE
GAS	AMEREN IP	618-236-6279	LANGSTON ROSE
WATER	CITY OF OFALLON	618-624-4500 EXT. 3	HEIDE BELL
SEWER	CASEVILLE TOWNSHIP	618-632-2414	JEFF BEVIRT
CABLE	CHARTER COMMUNICATIONS	636-387-6633	LISA WARD
TELEPHONE	AT&T	618-402-9819	DEAN LITZENBURG

APPLICABLE IDOT HIGHWAY STANDARDS:

280001-07	602601-04
420001-08	604001-04
420701-03	701501-06
424001-09	701502-07
542301-03	701801-06
602401-03	701901-06
	B.L.R. 10-6

COMMITMENTS

NONE

HOT-MIX ASPHALT MIXTURES

MIXTURE USE(S)	SURFACE COURSE	BINDER COURSE	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX.)	SEE BDE SPECIAL PROVISION		
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5	IL-19.0	IL-9.5
FRICTION AGG	MIXTURE C	MIXTURE B	MIXTURE C

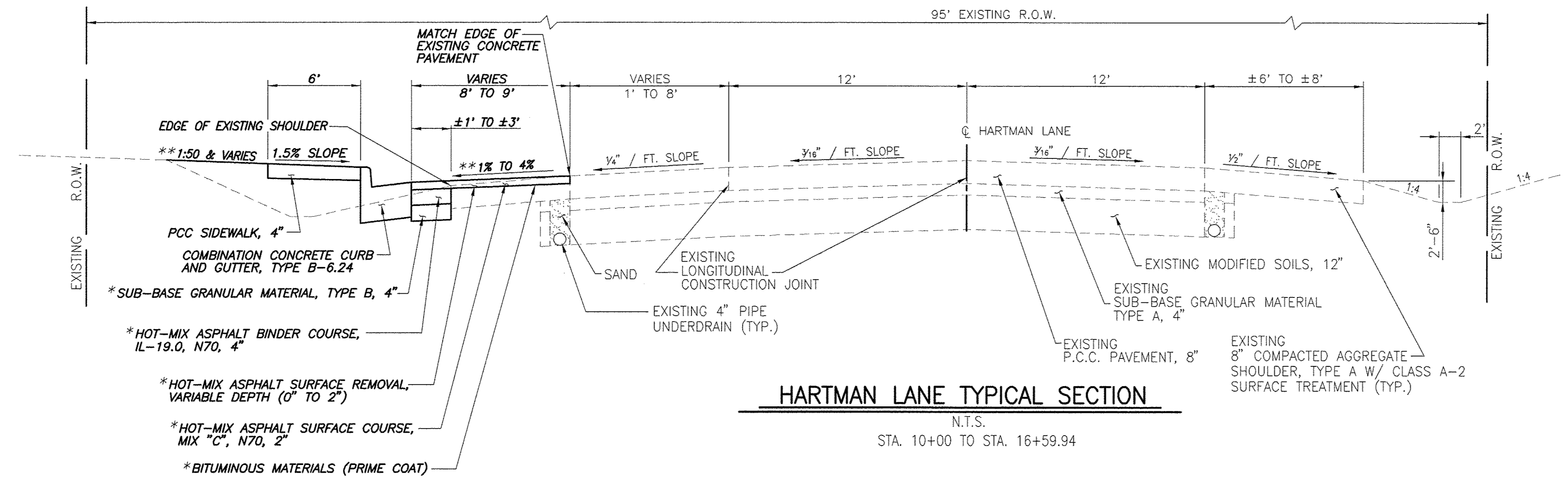
SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	46
20200100	EARTH EXCAVATION	CU YD	112
20400800	FURNISHED EXCAVATION	CU YD	455
20800150	TRENCH BACKFILL	CU YD	60
25000100	SEEDING, CLASS 1	ACRE	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45
25100115	MULCH, METHOD 2	ACRE	0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
28000500	INLET AND PIPE PROTECTION	EACH	4
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	151
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	61
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	98
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	232
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	27
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	58
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10
42000060	WELDED WIRE REINFORCEMENT	SQ YD	32
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	32
42001300	PROTECTIVE COAT	SQ YD	232
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	245
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	10,474
42400800	DETECTABLE WARNINGS	SQ FT	179
44000100	PAVEMENT REMOVAL	SQ YD	160
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	317
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	285
44000600	SIDEWALK REMOVAL	SQ FT	2,148
50105220	PIPE CULVERT REMOVAL	FOOT	14
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	245
550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	31
550A2400	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 36"	FOOT	15
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	833
67100100	MOBILIZATION	L SUM	1
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	313
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	2
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	32
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	397
X6015000	REMOVE CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1
X6024242	INLETS, SPECIAL, NO. 1	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* - SPECIALITY ITEM

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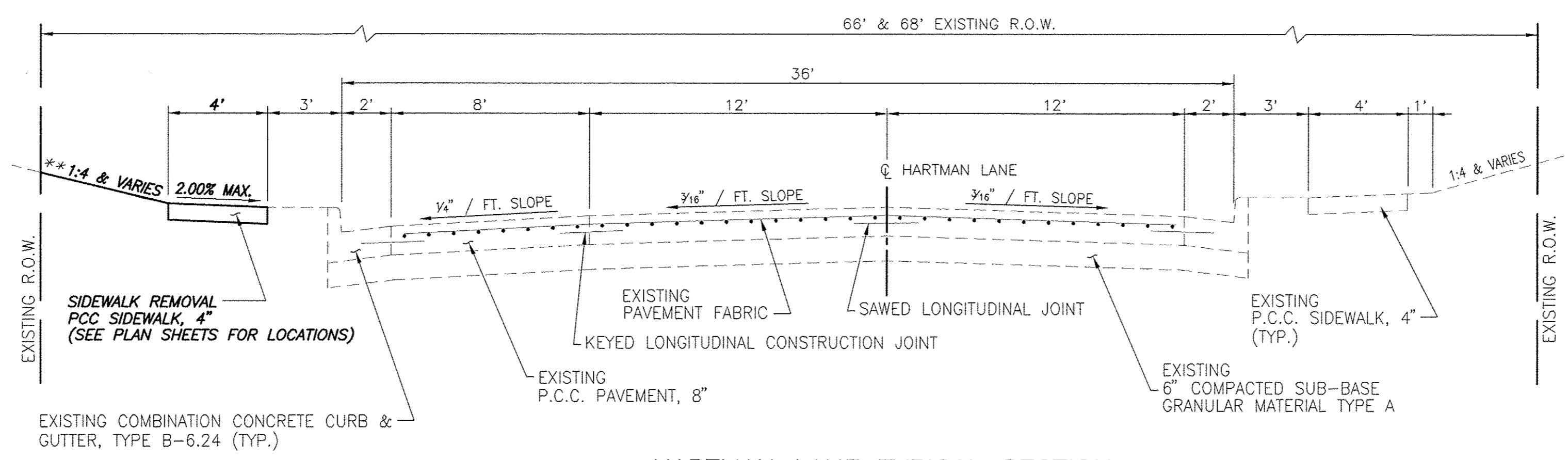
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	4
FEDERAL AID PROJECT		CONTRACT 97641		



HARTMAN LANE TYPICAL SECTION

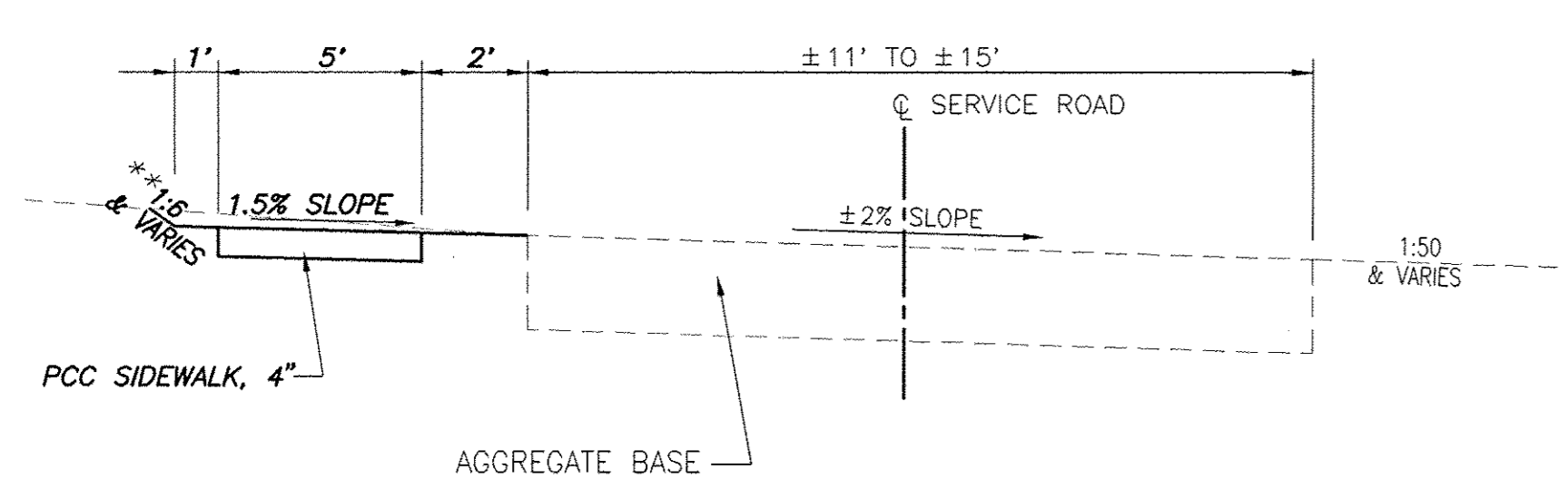
N.T.S.
STA. 10+00 TO STA. 16+59.94

* MILLING AND RESURFACING LIMITS
STA. 10+31.04 TO 16+04.98
** SEE CROSS SECTIONS FOR VARIABLE SLOPES



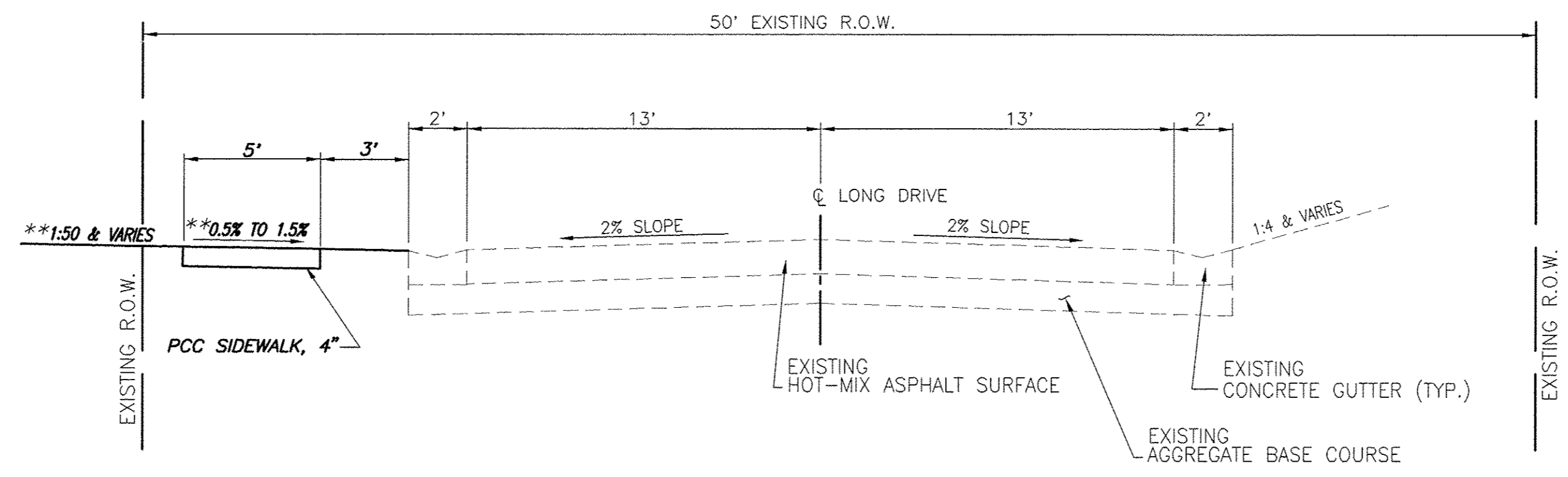
HARTMAN LANE TYPICAL SECTION

N.T.S.
STA. 16+59.94 TO STA. 42+20.63



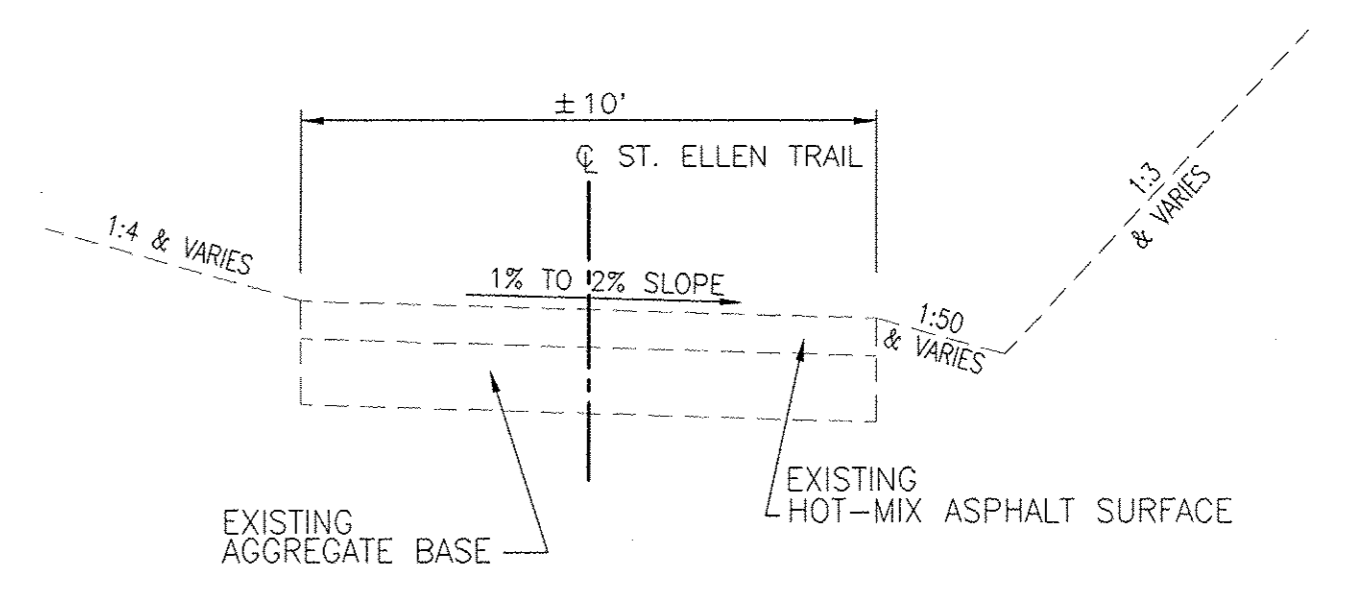
SERVICE ROAD TYPICAL SECTION

N.T.S.
STA. 100+00 TO STA. 106+79.55



LONG DRIVE TYPICAL SECTION

N.T.S.
STA. 106+79.55 TO STA. 108+48.93



ST. ELLEN TRAIL TYPICAL SECTION

N.T.S.

NOTE: INTERGOVERNMENTAL AGREEMENT AND LETTER OF SUPPORT TO BE OBTAINED FOR CONSTRUCTION OUTSIDE OF R.O.W. ON SCHOOL PROPERTY

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	5
FEDERAL AID PROJECT		CONTRACT 97641		

ENTRANCE / SIDEROAD SCHEDULE

STATION	EXISTING SURFACE	TYPE	"L"		DRIVEWAY PAV'T REMOVAL SQ. YD.	INCIDENTAL HOT-MIX ASPHALT SURFACING (3") TON	AGG. BASE COURSE, TYPE B 8" SQ. YD.	PCC DRIVEWAY PAVEMENT, 6" SQ. YD.	AGG. SURFACE COURSE, TYPE A 6" SQ. YD.	COMMENTS
			FOOT	FOOT						
20+94.73 LT.	HOT-MIX ASPHALT	C.E.	13.2	30.0	78.9	3.8	22.6	27.0		
22+48.92 LT.	TURF	F.E.	6.4	12.0	13.4			13.4		
23+73.09 LT.	AGGREGATE	P.E.	13.3	13.0	13.5			13.5	12.6	
25+13.12 LT.	AGGREGATE	P.E.	13.2	12.4	13.4			13.4	9.5	
25+40.70 LT.	AGGREGATE	SIDEROAD	13.0	12.0	13.2			13.2	8.4	ALLEY
25+88.05 LT.	AGGREGATE	P.E.	13.3	12.0	12.9			12.9	10.6	
29+34.12 LT.	P.C.C.	P.E.	13.0	21.0	33.0			33.0		
30+37.43 LT.	HOT-MIX ASPHALT	BIKE PATH	21.0	10.0	29.4	2.8	16.4	13.0		ST. ELLEN BIKE PATH
30+90.36 LT.	AGGREGATE	P.E.	13.8	16.0	16.0			14.4	14.0	
34+65.46 LT.	AGGREGATE	P.E.	14.3	14.2	14.8			14.8	16.7	
36+72.43 LT.	HOT-MIX ASPHALT	P.E.	14.0	12.6	21.7	1.6	9.4	12.3		
38+06.12 LT.	AGGREGATE	P.E.	14.2	16.2	15.7			15.7	11.1	
38+83.12 LT.	HOT-MIX ASPHALT	P.E.	14.3	12.0	25.8	2.1	12.7	13.1		
39+22.08 LT.	AGGREGATE	P.E.	14.3	16.7	15.6			15.6	15.1	
106+92.39	AGGREGATE	C.E.	8.0	21.2				19.5		SERVICE ROAD
TOTAL					317.3	10.3	61.1	244.8	98.0	

PCC SIDEWALK SCHEDULE

LOCATION	P.C.C. SIDEWALK, 4"		DETECTABLE WARNINGS
	SQ. FT.	SQ. FT.	
HARTMAN LANE			
STA. 10+20.49 LT. TO 16+45.24 LT.	4,198		
STA. 16+43.05 LT.			12
STA. 16+76.40 LT. TO 17+04.14 LT.	241		
STA. 16+78.80 LT.			12
STA. 16+88.70 LT.			10
STA. 16+80.53 RT. TO 16+96.53 RT.	92		
STA. 16+88.35 RT.			8
STA. 20+68.56 LT. TO 20+76.74 LT.	33		
STA. 21+13.64 LT. TO 21+21.43 LT.	33		
STA. 22+26.46 LT. TO 22+40.23 LT.	56		
STA. 22+58.43 LT. TO 22+83.43 LT.	100		
STA. 23+50.23 LT. TO 23+64.36 LT.	56		
STA. 23+82.81 LT. TO 23+90.94 LT.	32		
STA. 24+95.47 LT. TO 25+04.02 LT.	35		
STA. 25+22.38 LT. TO 25+31.51 LT.	37		
STA. 25+49.90 LT. TO 25+80.04 LT.	120		
STA. 25+98.10 LT. TO 26+08.92 LT.	44		
STA. 27+30.58 LT. TO 27+49.12 LT.	75		
STA. 27+43.66 LT.			8
STA. 27+75.43 LT. TO 27+93.43 LT.	73		
STA. 27+80.57 LT.			8
STA. 29+13.77 LT. TO 29+23.20 LT.	38		
STA. 29+47.69 LT. TO 29+57.59 LT.	41		
STA. 30+16.65 LT. TO 30+27.00 LT.	42		
STA. 30+45.40 LT. TO 30+53.19 LT.	32		
STA. 30+69.41 LT. TO 30+78.53 LT.	43		
STA. 31+00.86 LT. TO 31+14.66 LT.	60		
STA. 32+62.88 LT. TO 32+80.46 LT.	70		
STA. 32+76.40 LT.			14
STA. 33+26.66 LT. TO 33+46.13 LT.	75		
STA. 33+31.90 LT.			15
STA. 34+46.88 LT. TO 34+55.44 LT.	34		
STA. 34+76.06 LT. TO 34+84.95 LT.	35		
STA. 36+51.92 LT. TO 36+63.36 LT.	46		
STA. 36+79.88 LT. TO 36+98.23 LT.	82		
STA. 36+93.00 LT.			8
STA. 37+38.15 LT. TO 37+59.45 LT.	91		
STA. 37+42.83 LT.			8
STA. 37+86.97 LT. TO 37+95.82 LT.	35		
STA. 38+17.87 LT. TO 38+25.61 LT.	31		
STA. 38+64.17 LT. TO 38+74.16 LT.	39		
STA. 38+93.49 LT. TO 39+10.84 LT.	69		
STA. 39+33.51 LT. TO 39+40.71 LT.	29		
STA. 40+40.08 LT. TO 40+65.00 LT.	98		
STA. 40+59.40 LT.			18
STA. 41+11.63 LT. TO 41+35.76 LT.	94		
STA. 41+16.85 LT.			14
STA. 41+55.58 LT. TO 41+74.83 LT.	73		
STA. 41+71.00 LT.			12
STA. 42+04.13 LT. TO 42+20.63 LT.	97		
STA. 42+07.30 LT.			12
SIDEWALK FROM JOSEPH A. ARTHUR MIDDLE SCHOOL TO LONG DRIVE			
STA. 100+00.00 TO 100+60.41	297		
STA. 100+58.24			10
STA. 100+77.96 TO 106+81.44	3,039		
STA. 100+79.00			10
STA. 107+02.35 TO 108+48.93	709		
TOTAL	10,474		179

MISCELLANEOUS REMOVAL SCHEDULE

LOCATION	SIDEWALK REMOVAL SQ. FT.	COMB. C & G REMOVAL FOOT	PAVEMENT REMOVAL SQ. YD.	REMOVE EXISTING F.E.S. EACH	REMOVE CONCRETE HEADWALLS FOR PIPE DRAINS EACH	PIPE CULVERT REMOVAL FOOT
STA. 10+14 LT TO 10+47 LT			32			
STA. 10+20 LT TO 10+34 LT	60					
STA. 11+07, 39' LT				1		
STA. 11+15, 32' LT					1	
STA. 11+29, 41' LT				1		
STA. 11+36, 48' LT						14
STA. 15+93 LT TO 16+05 LT		12				
STA. 16+26 LT TO 16+47 LT		33				
STA. 16+73 LT TO 16+99 LT		41				
STA. 16+76 LT TO 17+04 LT	175					
STA. 16+81 RT TO 16+96 RT	90					
STA. 20+69 LT TO 20+77 LT	33					
STA. 21+14 LT TO 21+21 LT	33					
STA. 22+26 LT TO 22+40 LT	56					
STA. 22+58 LT TO 22+83 LT	100					
STA. 23+57 LT TO 23+64 LT	30					
STA. 23+83 LT TO 23+91 LT	32					
STA. 24+93 LT TO 25+04 LT	35					
STA. 25+22 LT TO 25+31 LT	37					
STA. 25+50 LT TO 25+80 LT	120					
STA. 25+98 LT TO 26+09 LT	44					
STA. 27+31 LT TO 27+49 LT	76					
STA. 27+38 LT TO 27+54 LT		23				
STA. 27+71 LT TO 27+85 LT		21				
STA. 27+75 LT TO 27+93 LT	72					
STA. 29+14 LT TO 29+23 LT	38					
STA. 29+48 LT TO 29+58 LT	41					
STA. 30+17 LT TO 30+27 LT	42					
STA. 30+45 LT TO 30+53 LT	32					
STA. 30+69 LT TO 30+79 LT	68					
STA. 30+77 LT TO 30+83 LT		6				
STA. 31+02 LT TO 31+08 LT		6				
STA. 31+07 LT TO 31+15 LT	35					
STA. 32+63 LT TO 32+80 LT	73					
STA. 32+69 LT TO 32+86 LT		30				
STA. 33+24 LT TO 33+42 LT		18				
STA. 33+27 LT TO 33+46 LT	73					
STA. 34+47 LT TO 34+55 LT	34					
STA. 34+76 LT TO 34+85 LT	35					
STA. 36+52 LT TO 36+63 LT	46					
STA. 36+78 LT TO 37+01 LT		25				
STA. 36+80 LT TO 36+94 LT	47					
STA. 37+33 LT TO 37+55 LT		26				
STA. 37+43 LT TO 37+59 LT	57					
STA. 37+87 LT TO 37+96 LT	35					
STA. 38+18 LT TO 38+26 LT	31					
STA. 38+64 LT TO 38+74 LT	39					
STA. 38+93 LT TO 39+11 LT	69					
STA. 39+34 LT TO 39+41 LT	29					
STA. 40+40 LT TO 40+65 LT	98					
STA. 40+53 LT TO 40+67 LT		16				
STA. 41+04 LT TO 41+21 LT		20				
STA. 41+12 LT TO 41+36 LT	94					
STA. 41+56 LT TO 41+75 LT	73					
STA. 42+04 LT TO 42+21 LT	66					
SIDEWALK FROM JOSEPH A. ARTHUR MIDDLE SCHOOL TO LONG DRIVE						
STA. 108+20 LT		4				
STA. 108+22 LT TO 108+46 LT		128				
STA. 108+48 LT		4				
TOTAL	2,148	285	160	2	1	14

PAVEMENT MARKING SCHEDULE

LOCATION	POLYUREA PAVEMENT MARKINGS TYPE 1 - LINE 6"		PAVEMENT MARKING REMOVAL - GRINDING
	SOLID WHITE CROSSWALK LINE FOOT	SQ. FT.	
HARTMAN LANE			
STA. 16+46 TO 16+75 LT.	55		
STA. 32+77 TO 33+32 LT.	93		
STA. 36+97 TO 37+39 LT.	74		
STA. 36+87 TO 37+50 LT.			32
STA. 40+62 TO 41+15 LT.	91		
TOTAL	313		32

CURB AND GUTTER SCHEDULE

LOCATION	C & G TYPE B6.24		PROTECTIVE COAT
	FOOT	SQ. YD.	
HARTMAN LANE			
STA. 10+33 LT TO 16+05 LT	574	159	
STA. 16+26 LT TO 16+47 LT	33	9	
STA. 16+73 LT TO 16+99 LT	41	11	
STA. 27+38 LT TO 27+54 LT	23	6	
STA. 27+71 LT TO 27+85 LT	21	6	
STA. 30+77 LT TO 30+83 LT	6	2	
STA. 31+02 LT TO 31+08 LT	6	2	
STA. 32+69 LT TO 32+86 LT	30	8	
STA. 33+24 LT TO 33+42 LT	18	5	
STA. 36+78 LT TO 37+01 LT	25	7	
STA. 37+33 LT TO 37+55 LT	26	7	
STA. 40+53 LT TO 40+67 LT	16	4	
STA. 41+04 LT TO 41+21 LT	20	6	
TOTAL	839	232	

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	UNITS
STA. 107+17, 6' LT.	12
STA. 107+19, 1' LT.	8
STA. 107+37, 1' LT.	8
STA. 108+11, 3' RT.	12
STA. 108+15, 2' RT.	6
TOTAL	46

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE

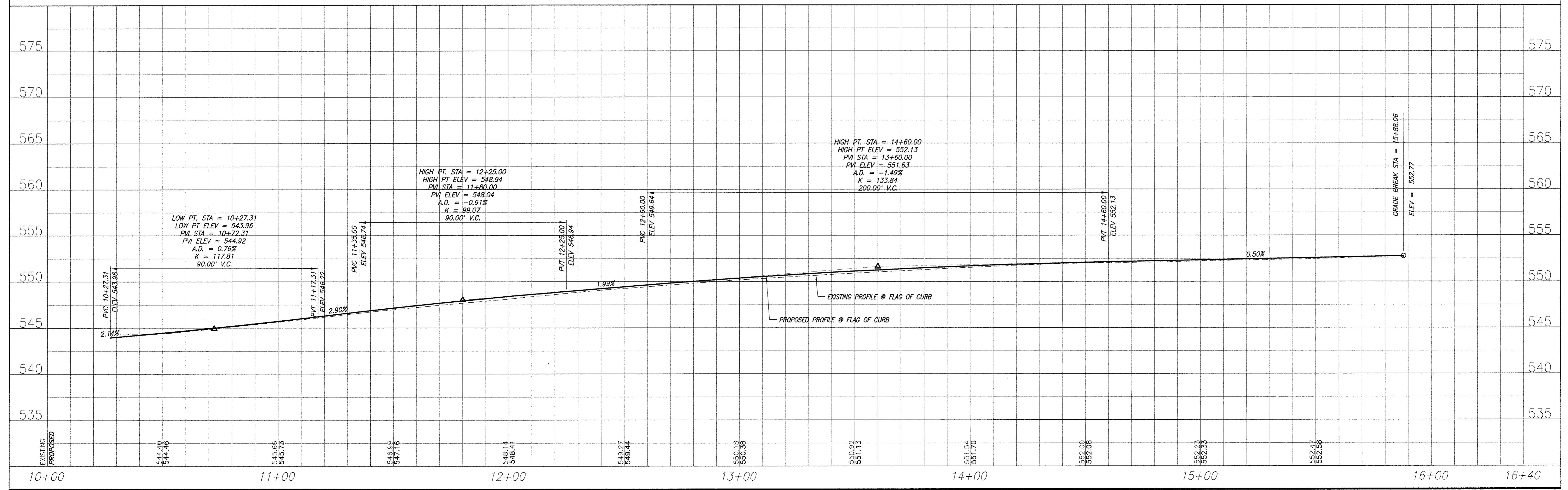
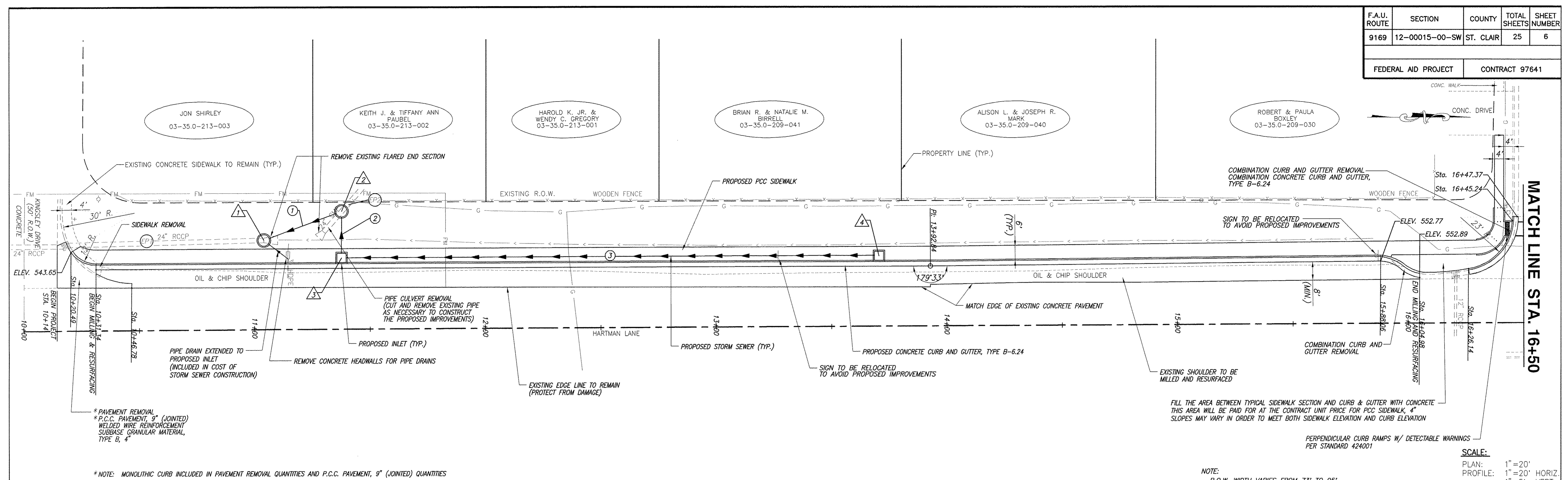
PT	LOCATION STATION / OFFSET	DESCRIPTION	RIM (1)	INVERTS
1	11+04.11 38.80'L	MANHOLES, TYPE A, 5'-DIA, TYPE 1 FRAME AND CLOSED LID *	546.39	542.00 N 542.00 S
2	11+37.82 51.17'L	MANHOLES, TYPE A, 5'-DIA., TYPE 1 FRAME AND CLOSED LID *	547.60	544.20 E 542.20 S 542.20 NW
3	11+37.75 30.96'L	INLETS, SPECIAL NO. 1 - 4'X4'	547.20	544.60 N 544.40 W
4	13+70.62 30.49'L	INLETS, SPECIAL NO. 1 - 4'X4'	551.77	549.27 S
5	31+81.90 1037.81'L	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"		552.50 E

NOTE: OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE. (1) - AT BACK OF CURB WHERE APPLICABLE (INCLUDES LID) PLEASE REFER TO MISCELLANEOUS DETAIL SHEET 15 FOR DIMENSIONS OF INLETS, SPECIAL. (*) - DENOTES PRECAST REINFORCED FLAT SLAB TOP REQUIRED

STORM SEWER SCHEDULE

PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSIDE INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL (CU. YD.)
1	2	1	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	31'	542.20	542.00	0.65%	11
2	3	2	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	16'	544.40	544.20	1.29%	3
3	4	3	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	229'	549.27	544.60	2.04%	44

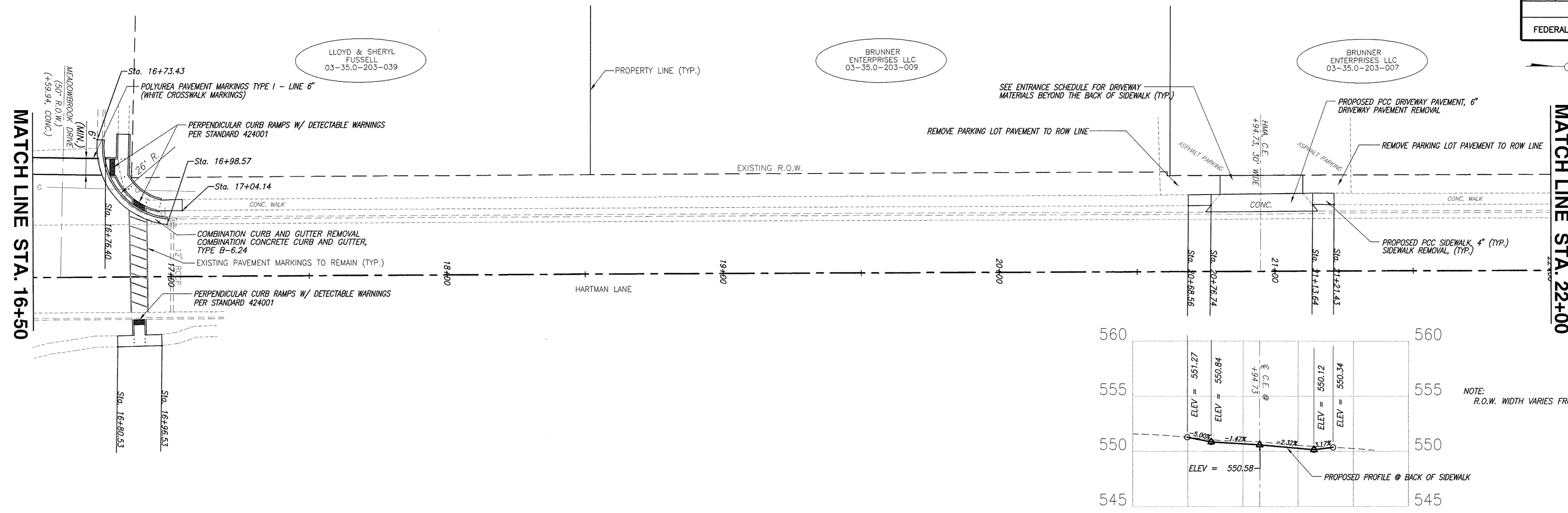
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	6
FEDERAL AID PROJECT		CONTRACT 97641		



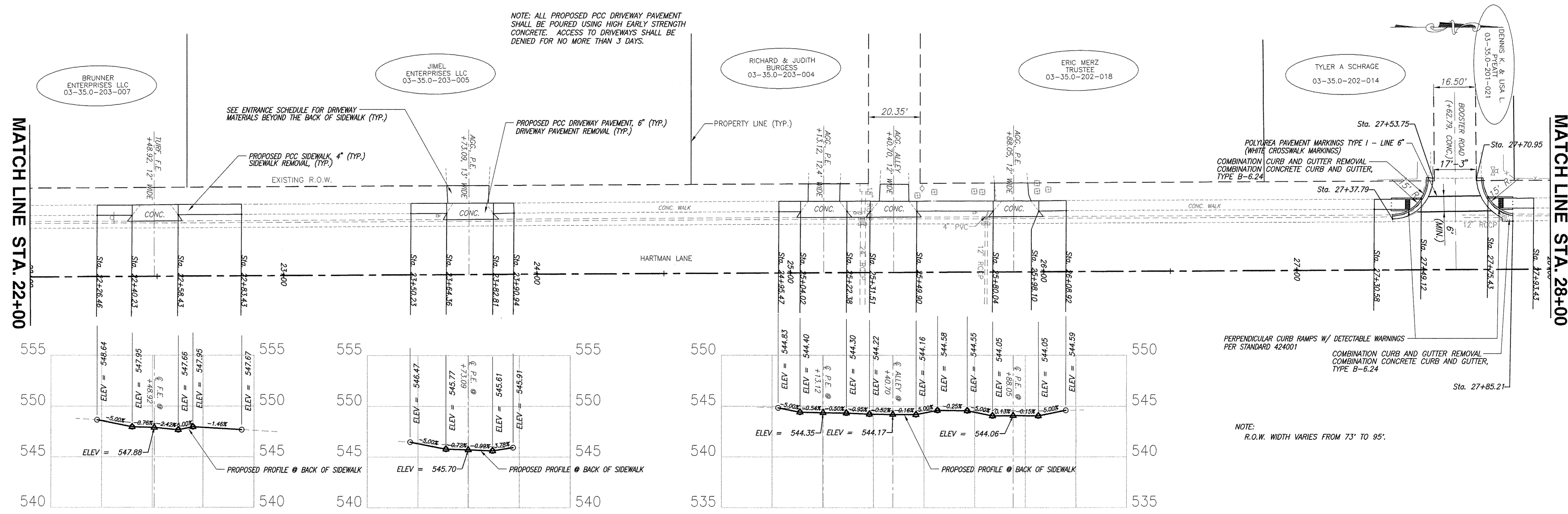
PLAN & PROFILE CENTRAL SCHOOL DISTRICT 104 SAFE ROUTES TO SCHOOL O'FALLON/SHILOH, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	7
FEDERAL AID PROJECT		CONTRACT 97641		

NOTE: THE PROPOSED PCC DRIVEWAY PAVEMENT AT STA. 20+94.73 SHALL BE POURED HALF AT A TIME TO ENSURE ACCESS WILL BE MAINTAINED AT ALL TIMES.



NOTE: ALL PROPOSED PCC DRIVEWAY PAVEMENT SHALL BE POURED USING HIGH EARLY STRENGTH CONCRETE. ACCESS TO DRIVEWAYS SHALL BE DENIED FOR NO MORE THAN 3 DAYS.

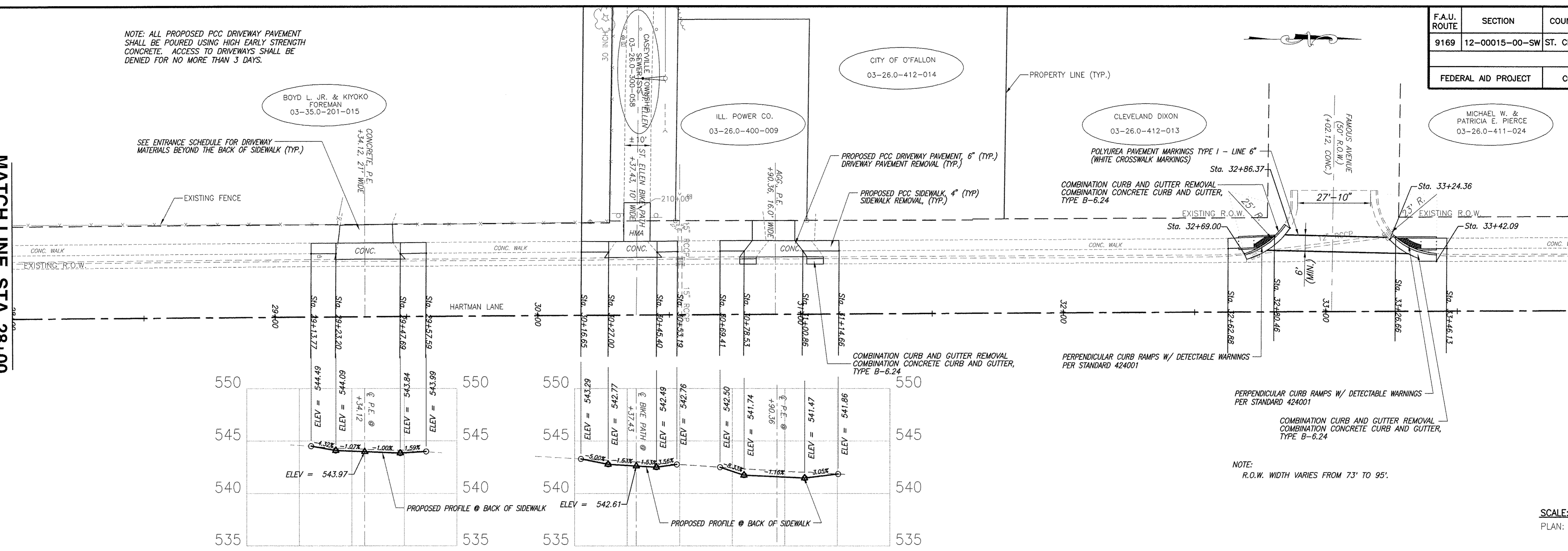


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	8
FEDERAL AID PROJECT		CONTRACT 97641		

NOTE: ALL PROPOSED PCC DRIVEWAY PAVEMENT SHALL BE POURED USING HIGH EARLY STRENGTH CONCRETE. ACCESS TO DRIVEWAYS SHALL BE DENIED FOR NO MORE THAN 3 DAYS.

MATCH LINE STA. 28+00

MATCH LINE STA. 34+00

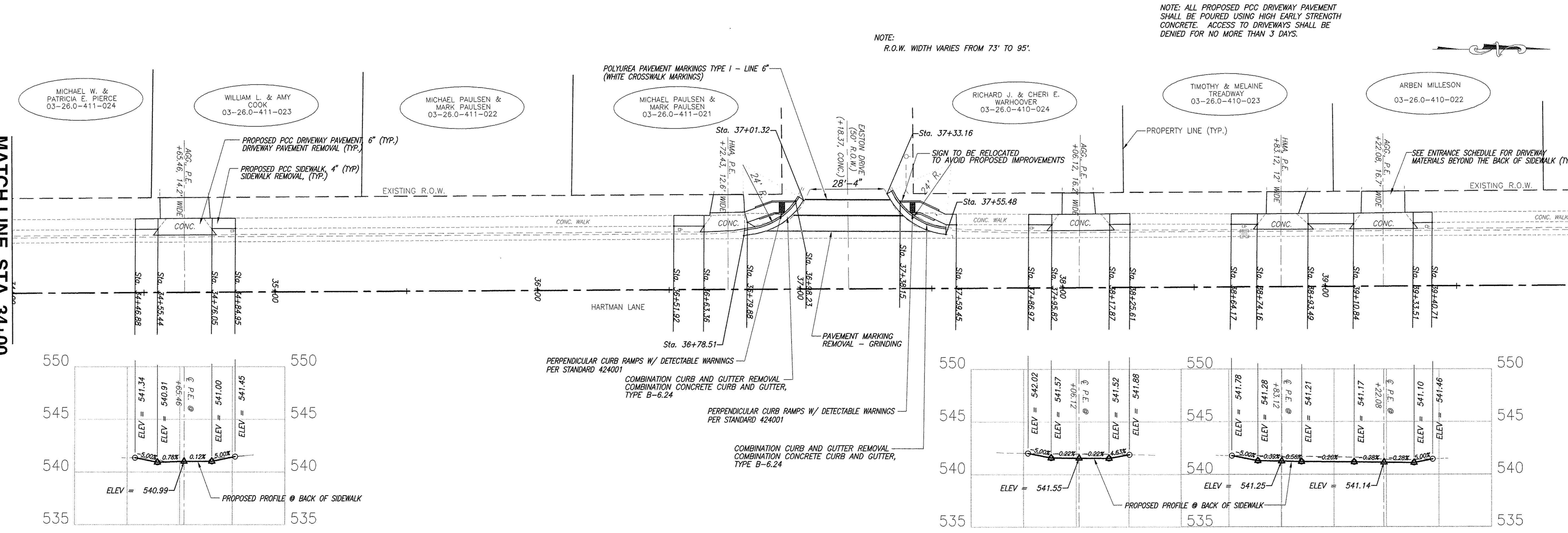


NOTE: ALL PROPOSED PCC DRIVEWAY PAVEMENT SHALL BE POURED USING HIGH EARLY STRENGTH CONCRETE. ACCESS TO DRIVEWAYS SHALL BE DENIED FOR NO MORE THAN 3 DAYS.

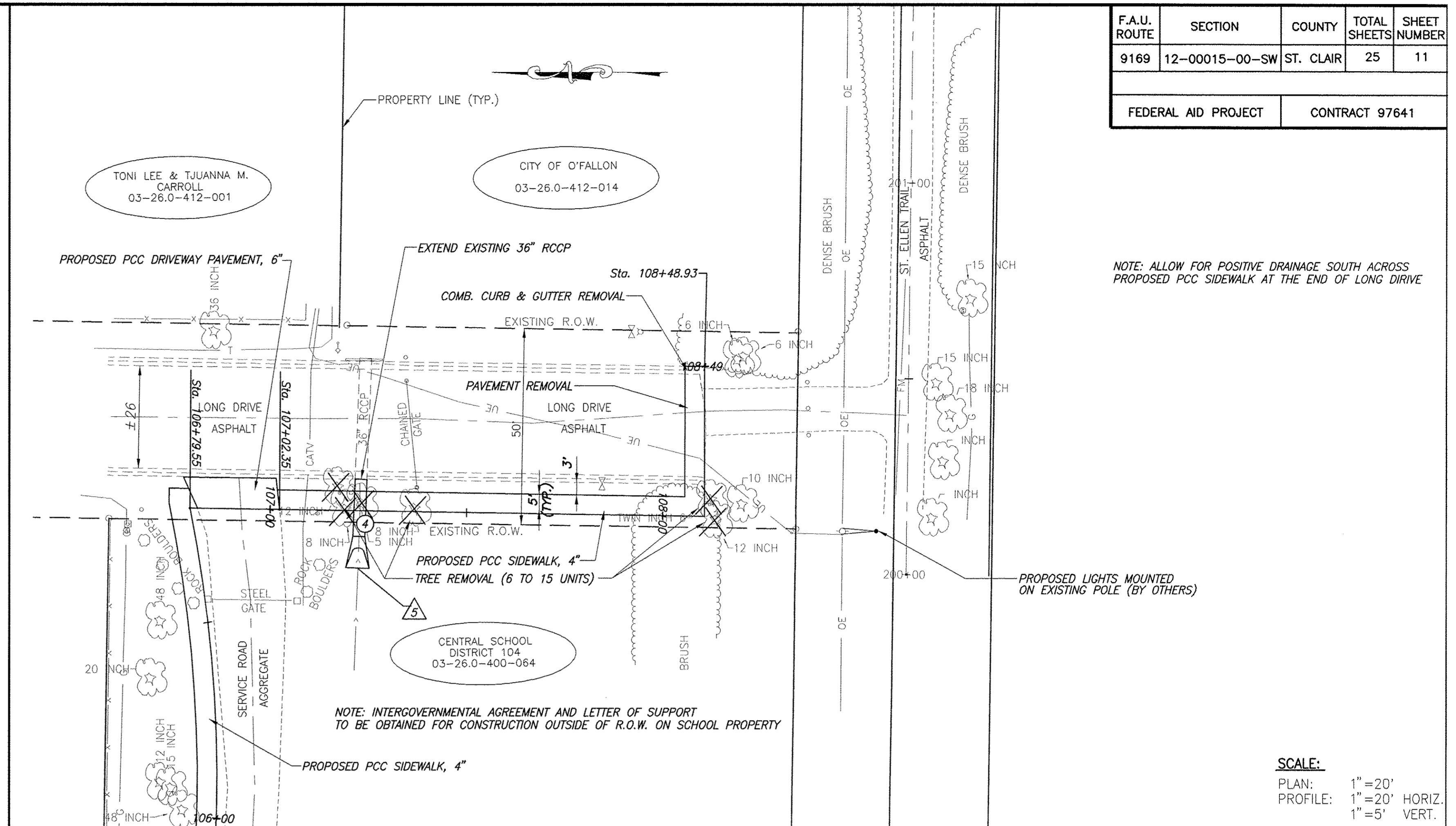
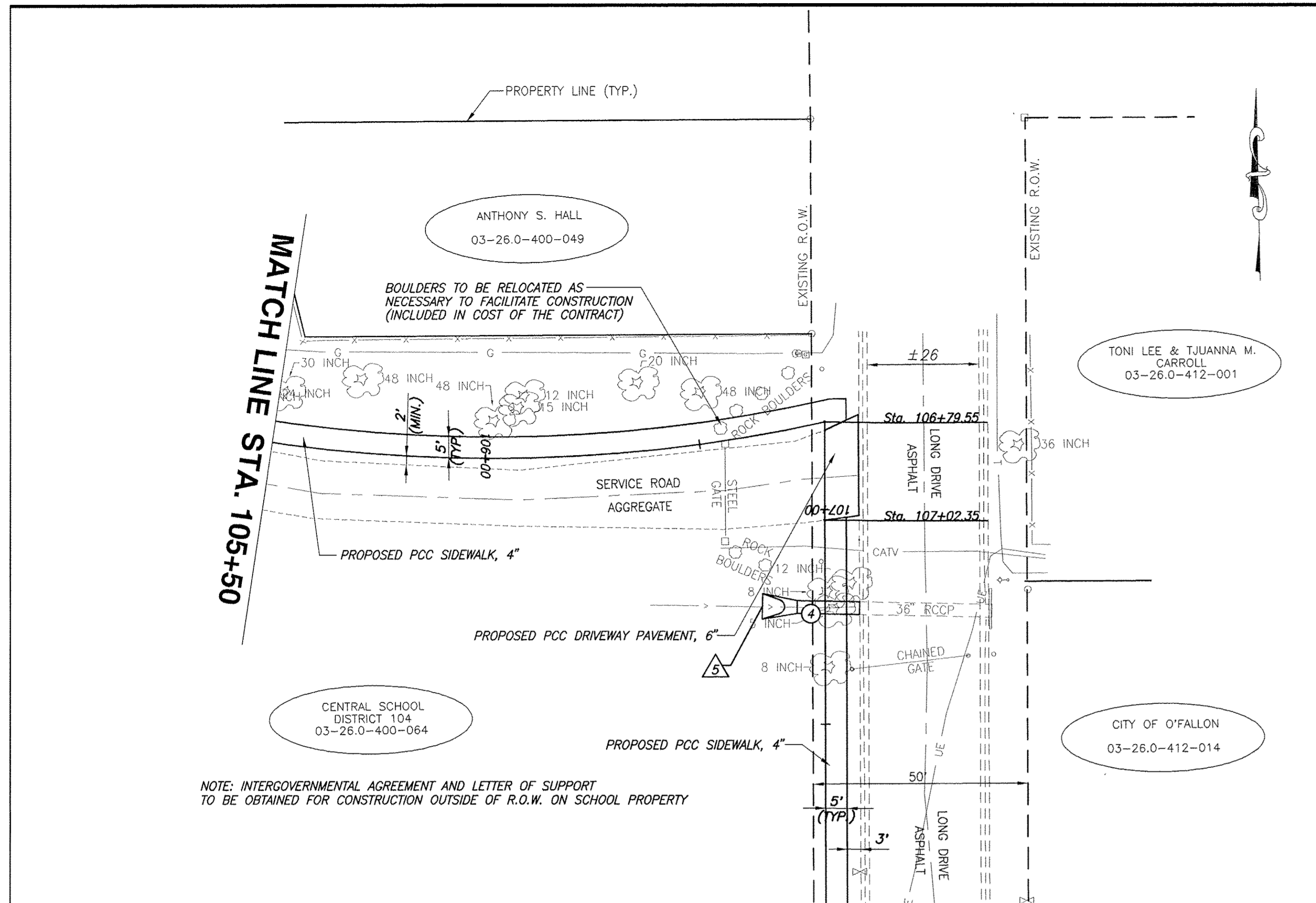
NOTE: R.O.W. WIDTH VARIES FROM 73' TO 95'.

MATCH LINE STA. 34+00

MATCH LINE STA. 40+00



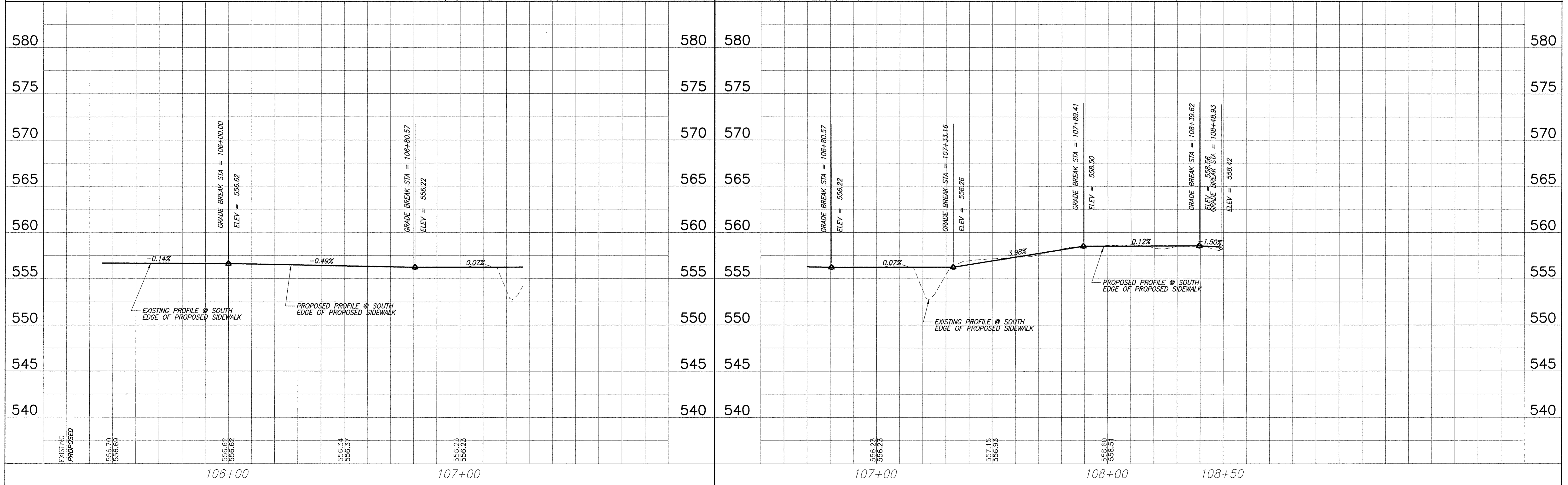
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	11
FEDERAL AID PROJECT		CONTRACT 97641		



NOTE: ALLOW FOR POSITIVE DRAINAGE SOUTH ACROSS PROPOSED PCC SIDEWALK AT THE END OF LONG DRIVE

PROPOSED LIGHTS MOUNTED ON EXISTING POLE (BY OTHERS)

SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.



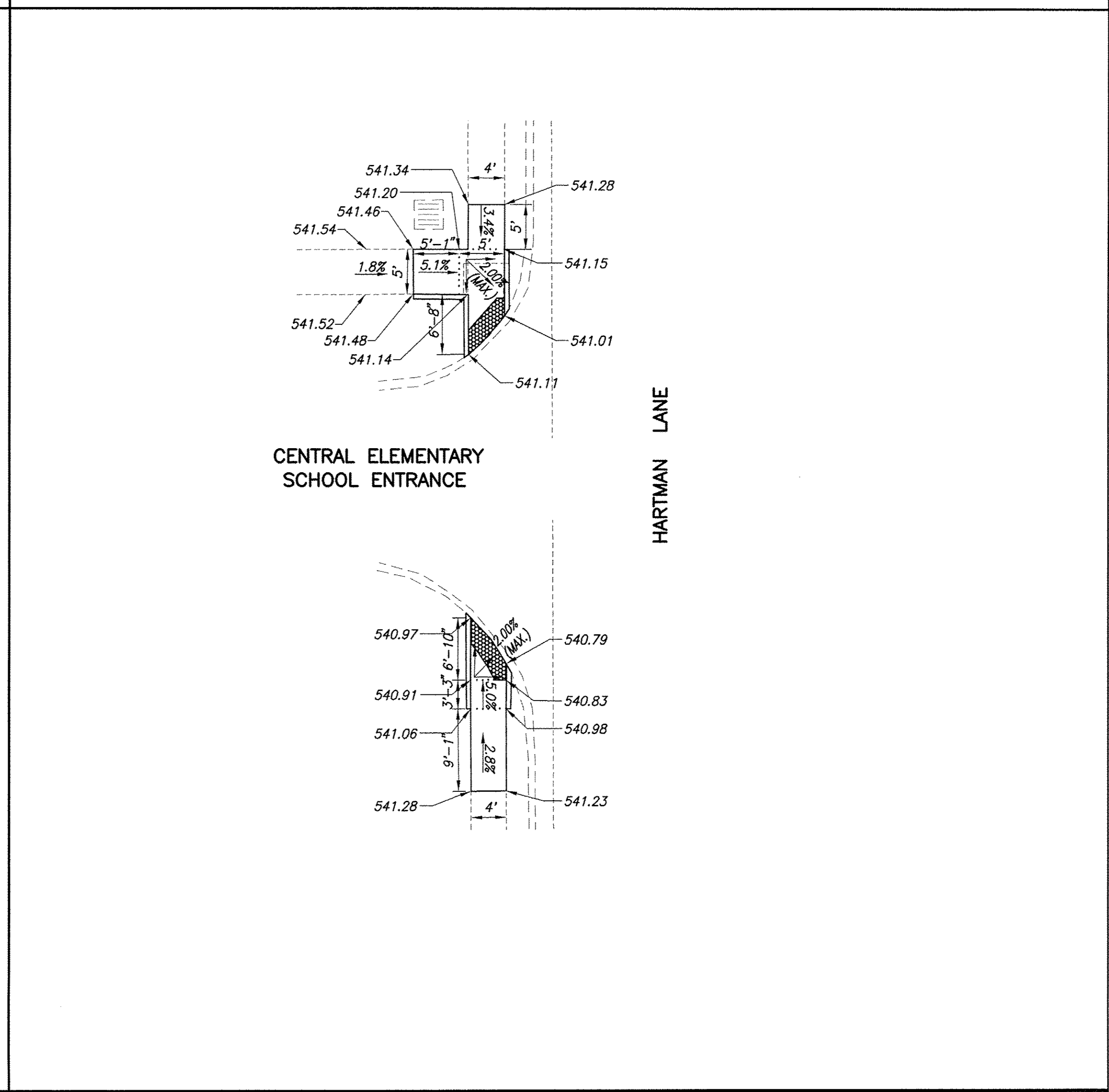
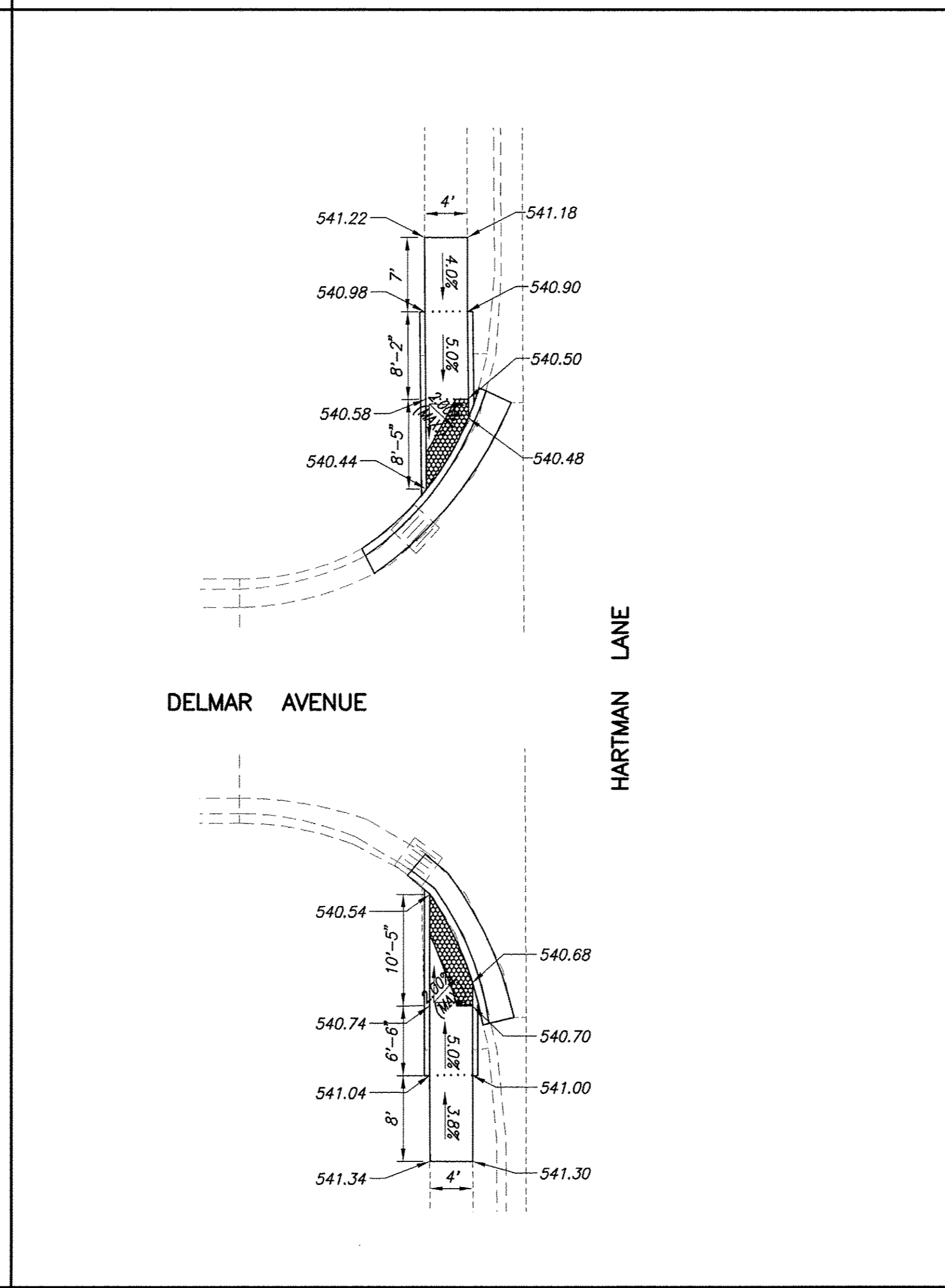
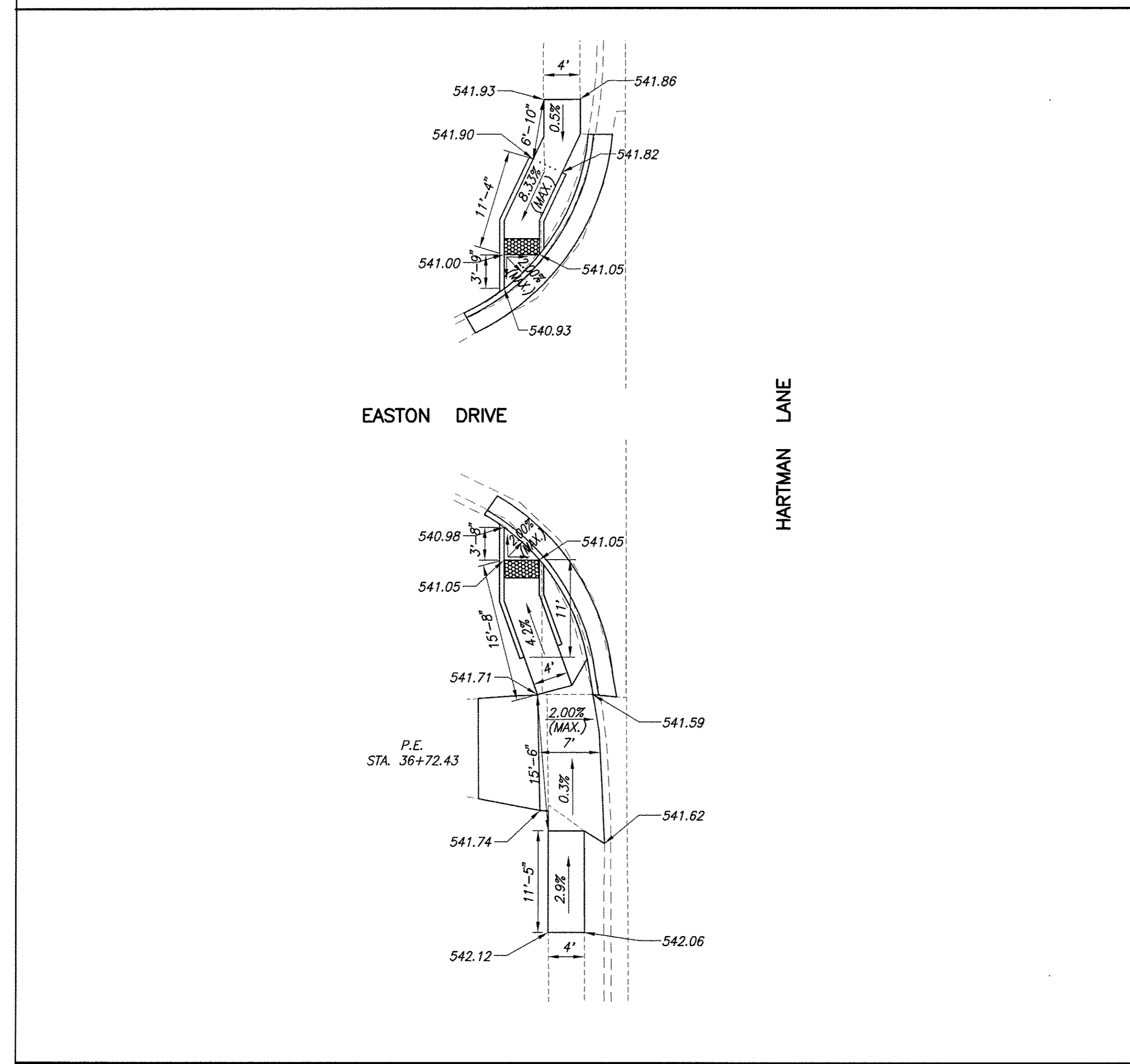
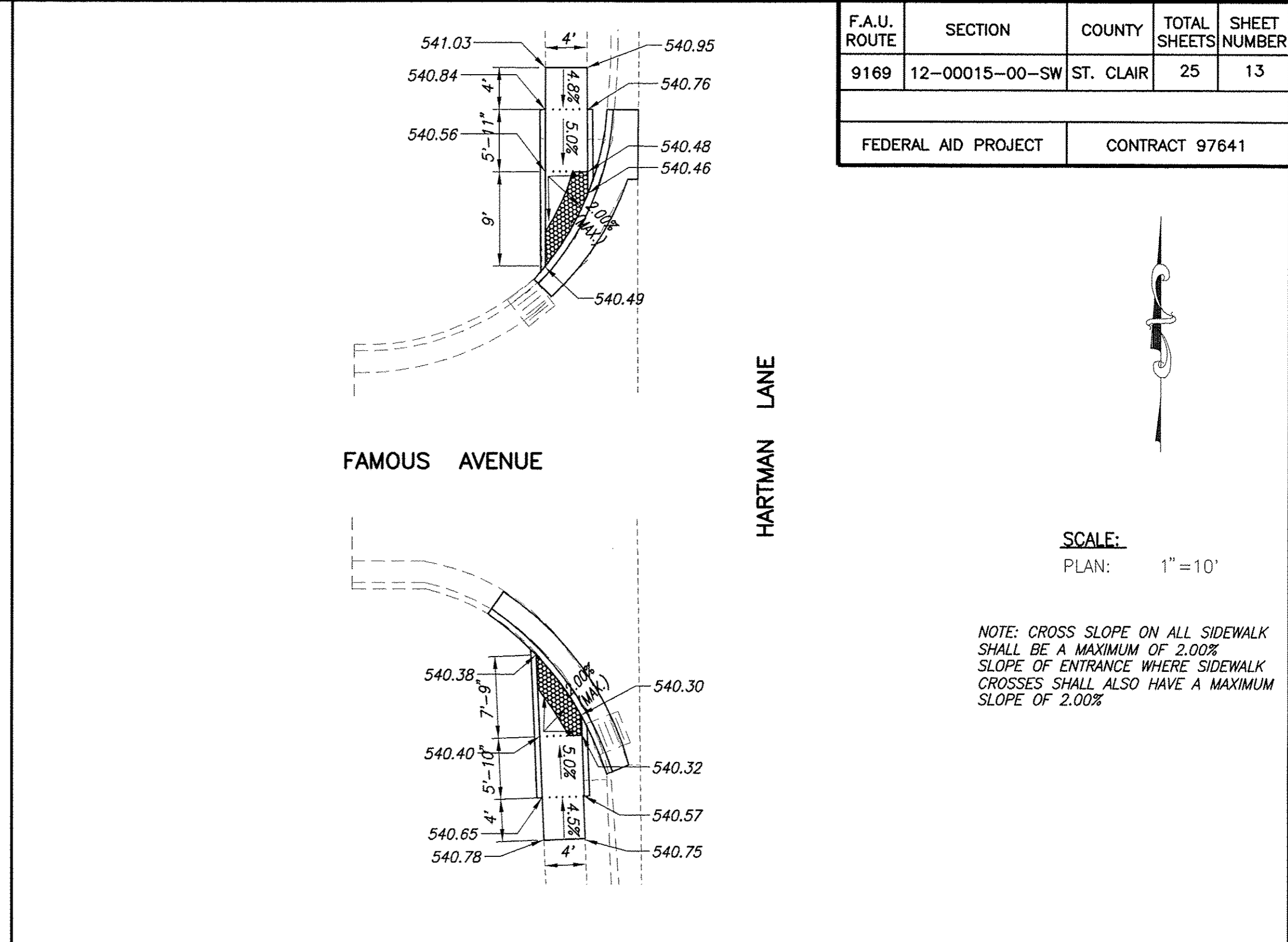
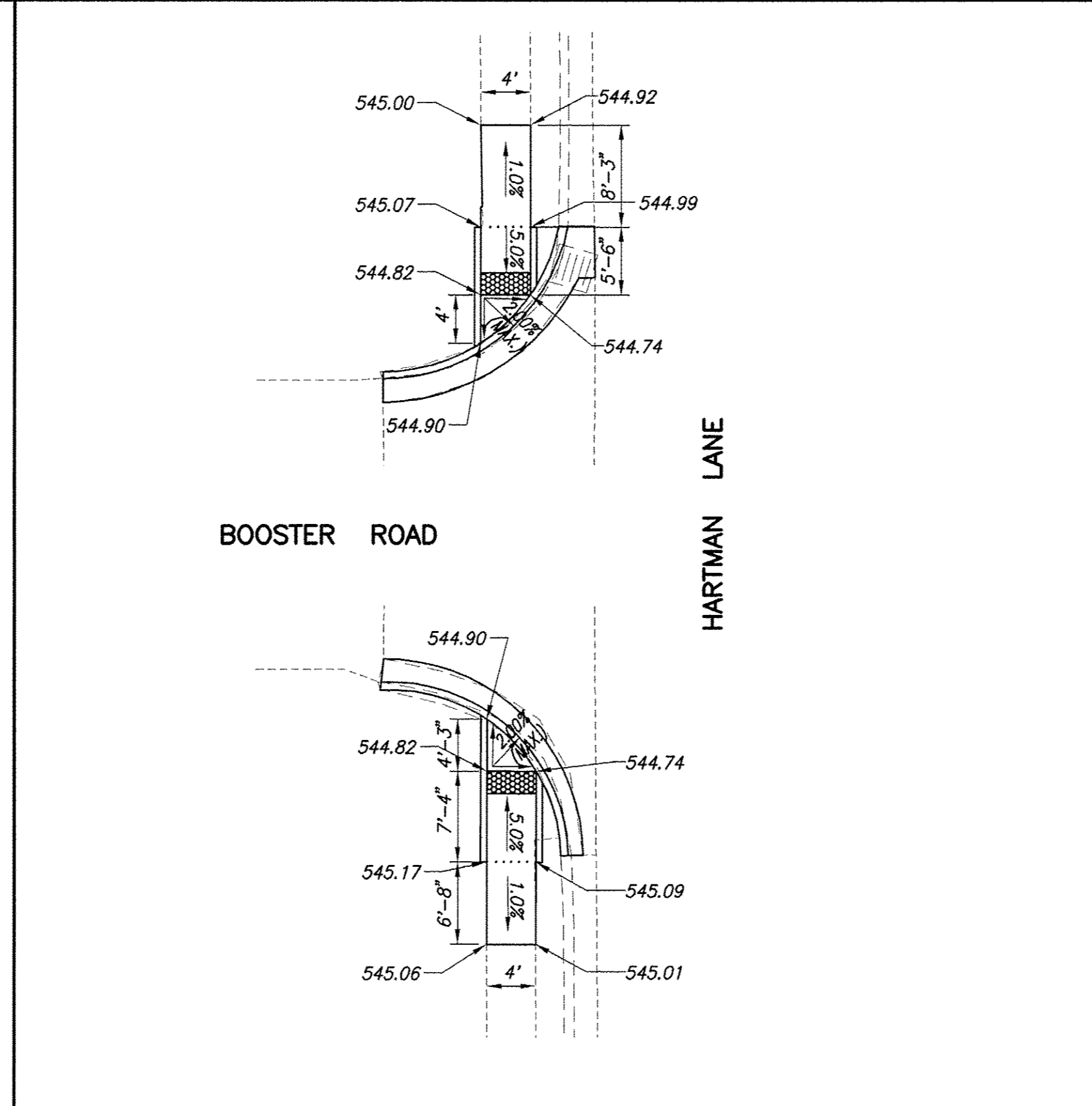
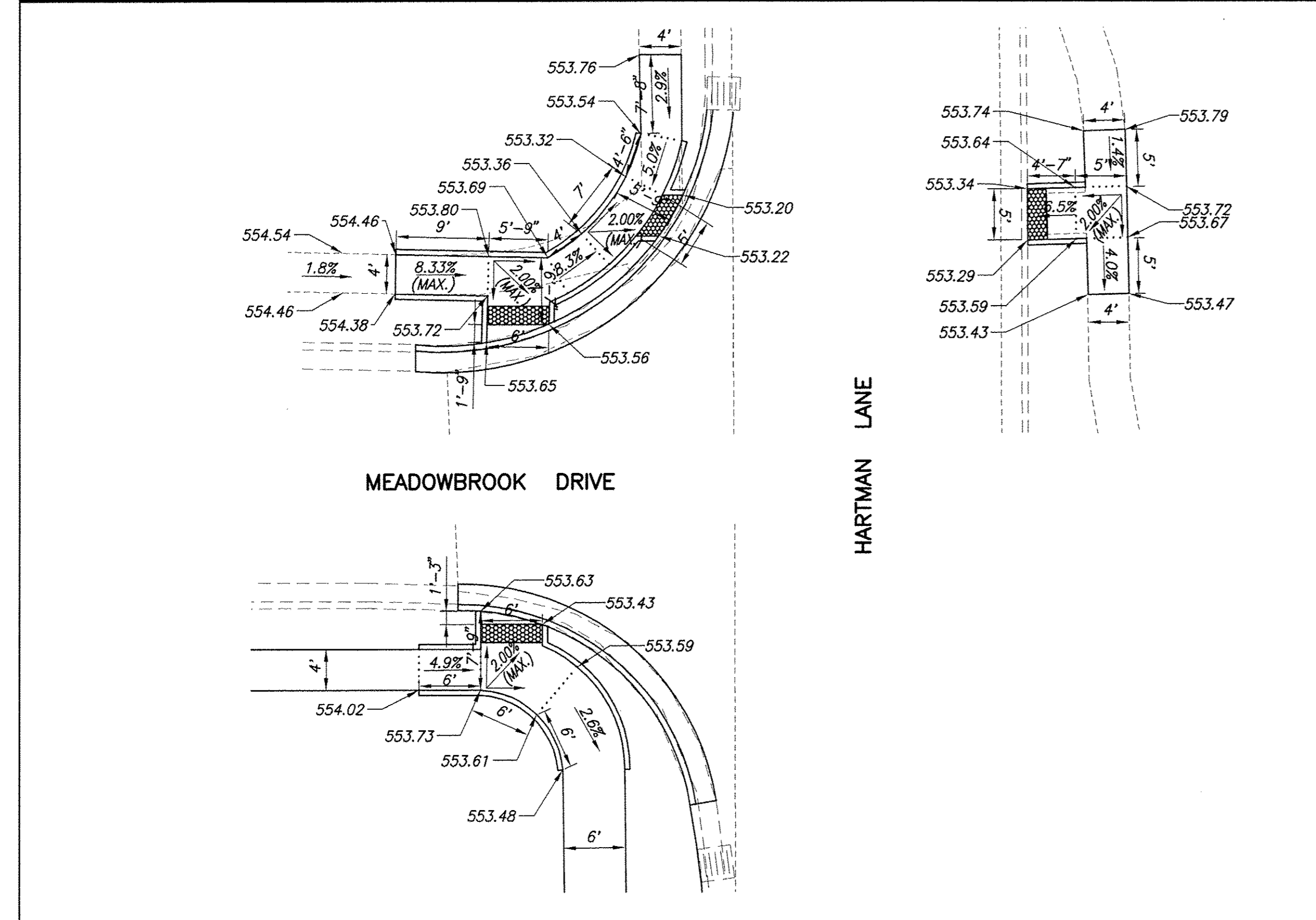
PLAN & PROFILE CENTRAL SCHOOL DISTRICT 104 SAFE ROUTES TO SCHOOL O'FALLON/SHILOH, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	13
FEDERAL AID PROJECT		CONTRACT 97641		



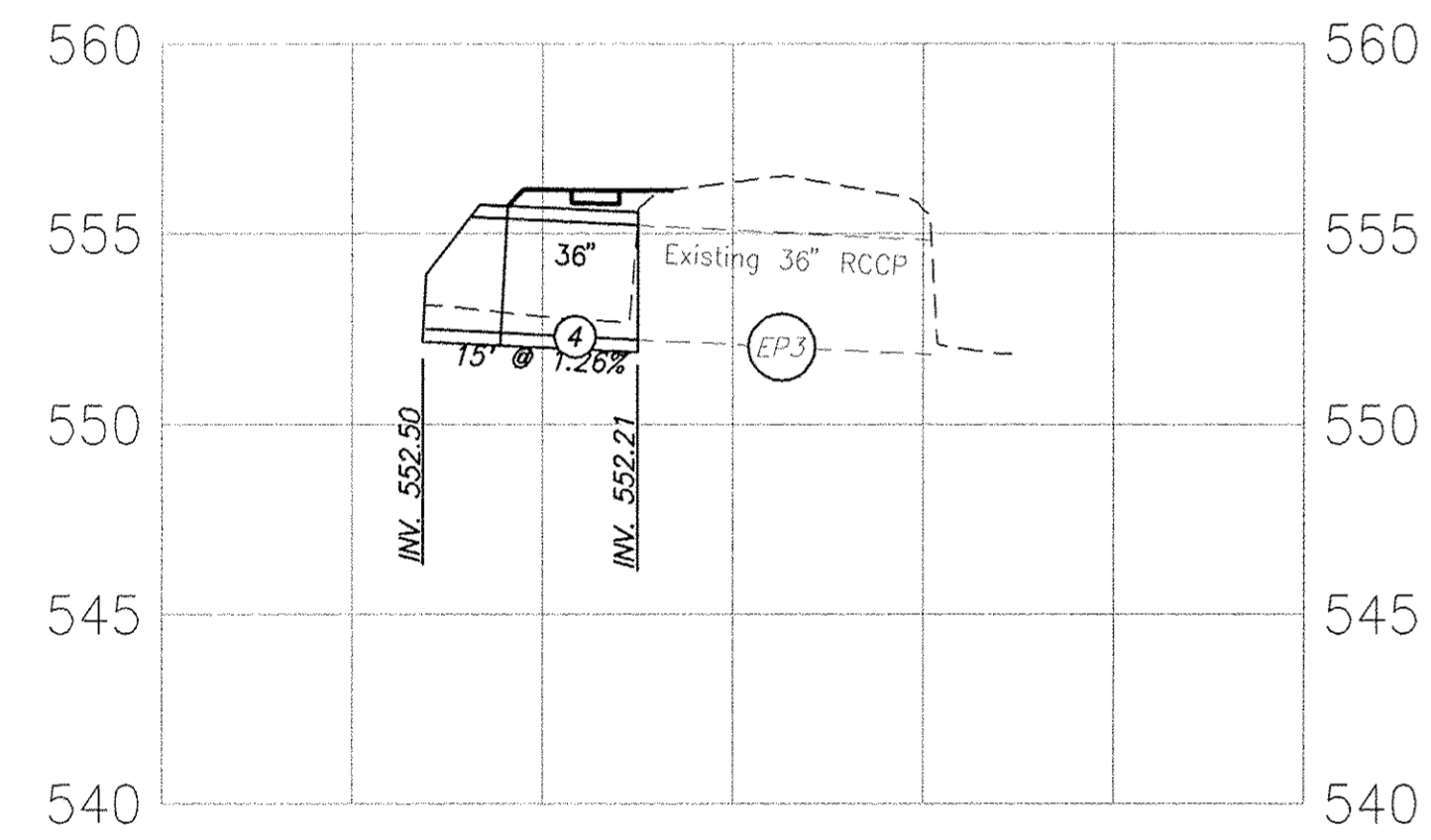
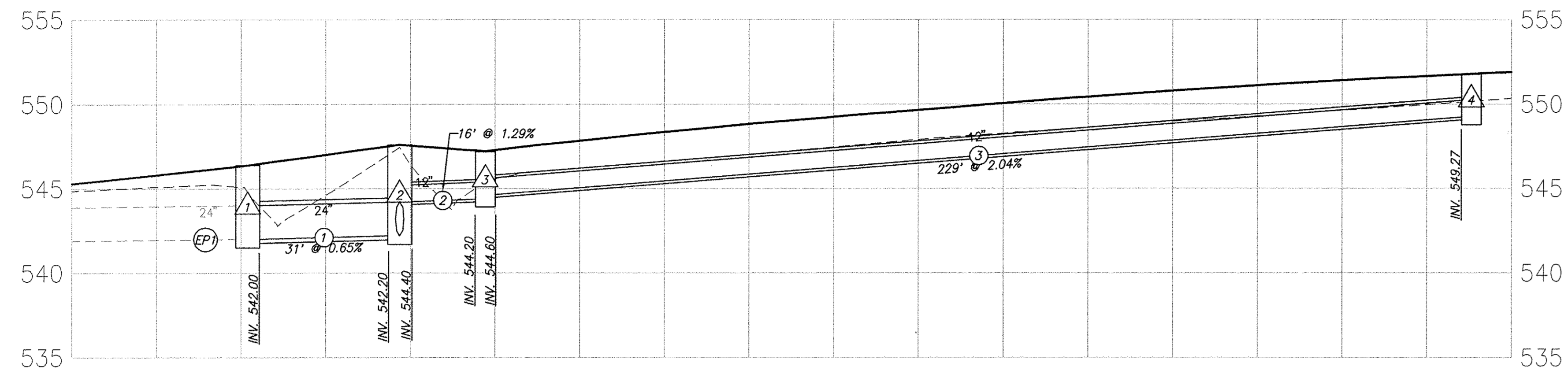
SCALE:
PLAN: 1"=10'

NOTE: CROSS SLOPE ON ALL SIDEWALK SHALL BE A MAXIMUM OF 2.00%
SLOPE OF ENTRANCE WHERE SIDEWALK CROSSES SHALL ALSO HAVE A MAXIMUM SLOPE OF 2.00%

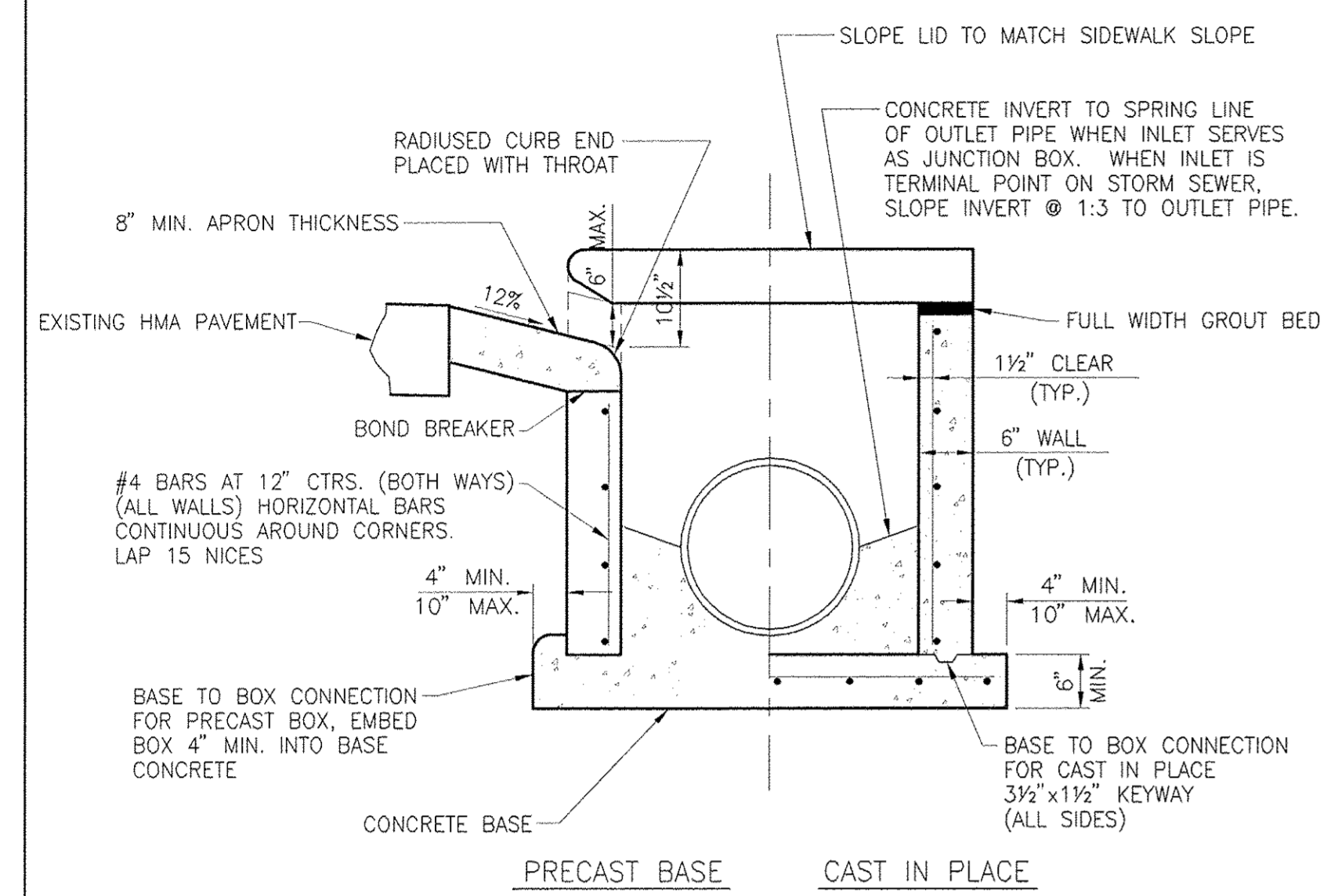


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	14
FEDERAL AID PROJECT		CONTRACT 97641		

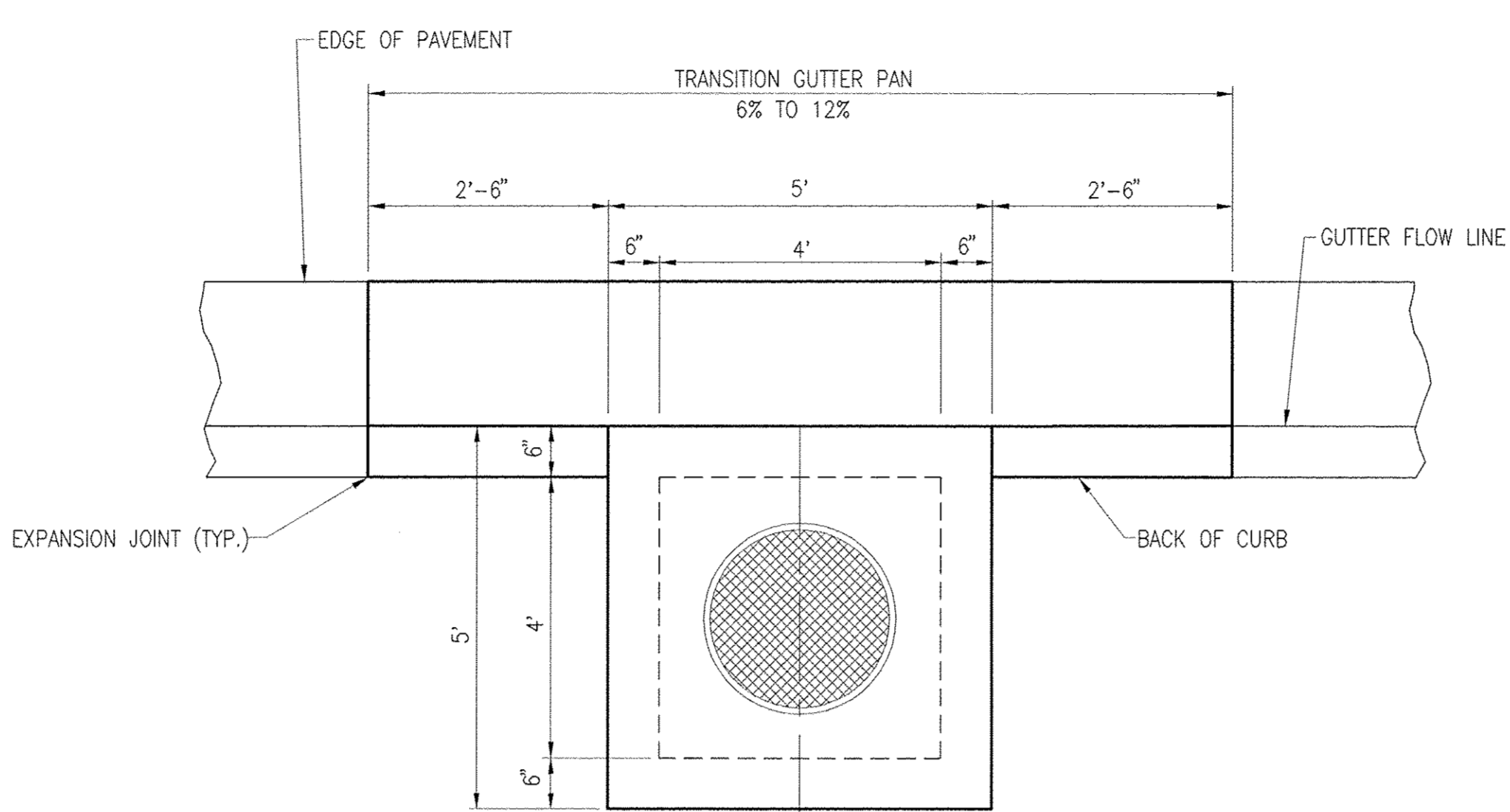
SCALE:
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.



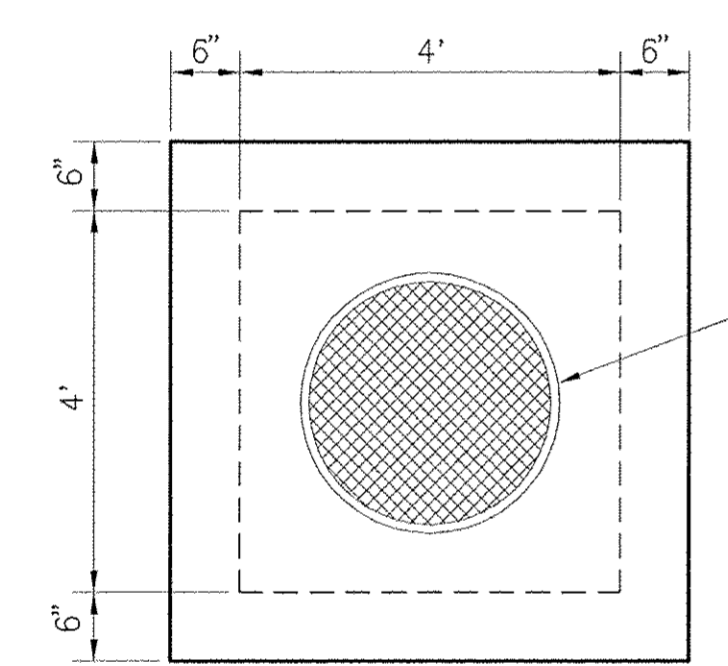
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	15
FEDERAL AID PROJECT		CONTRACT 97641		



END VIEW



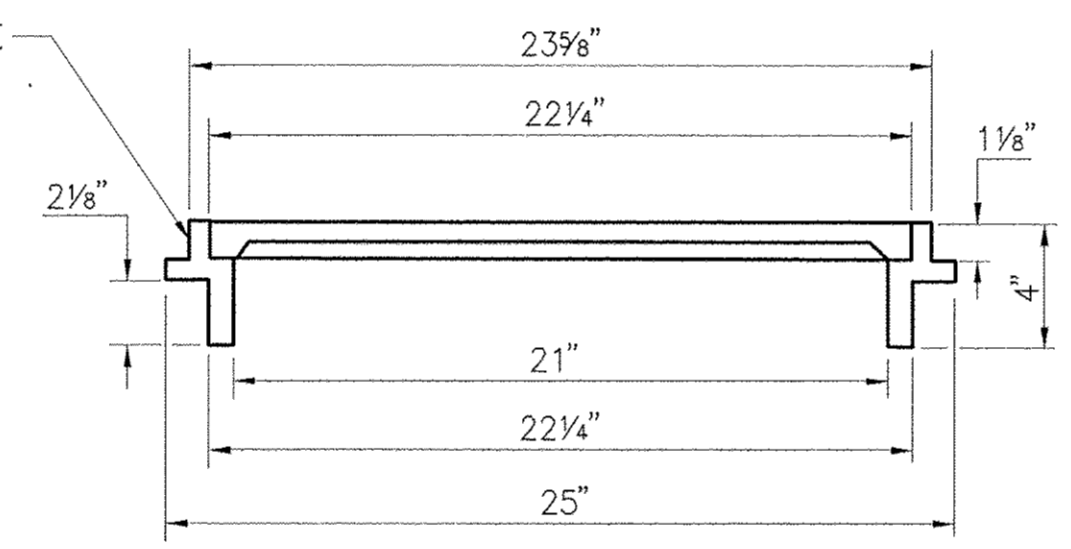
PLAN



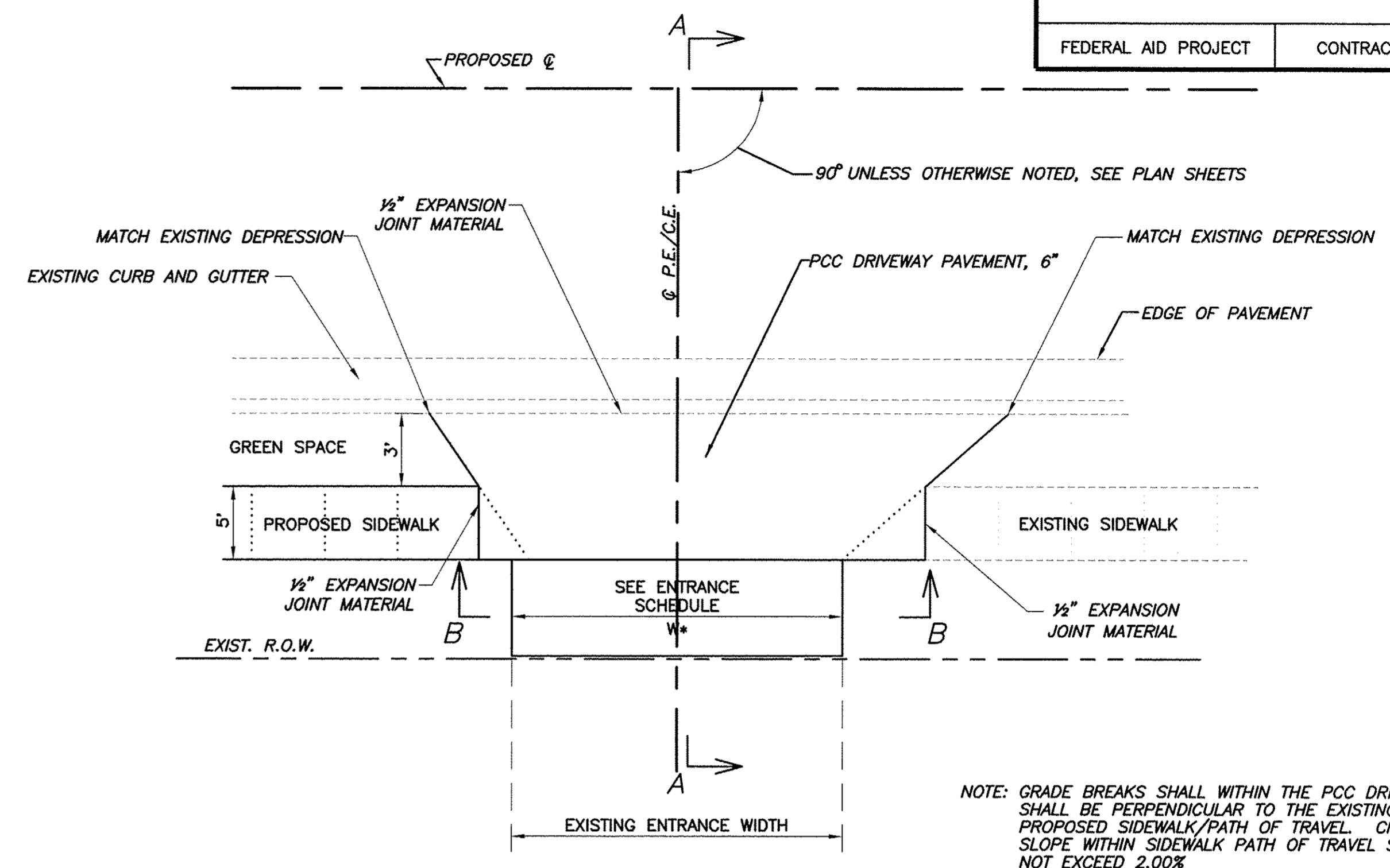
PRECAST LID DETAIL

FRAME AND CLOSED LID (SEE DETAIL) INCLUDED IN THE COST OF THE INLET

INLETS, SPECIAL, NO. 1
N.T.S.

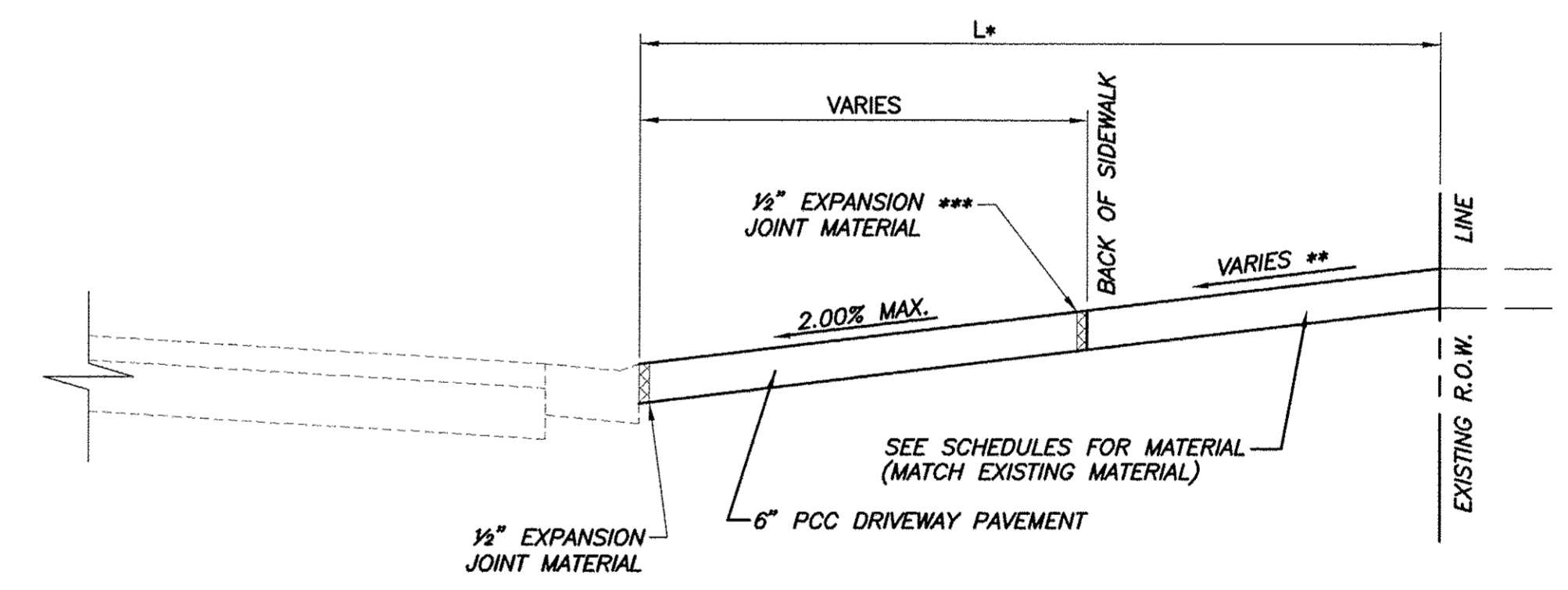


FRAME AND CLOSED LID



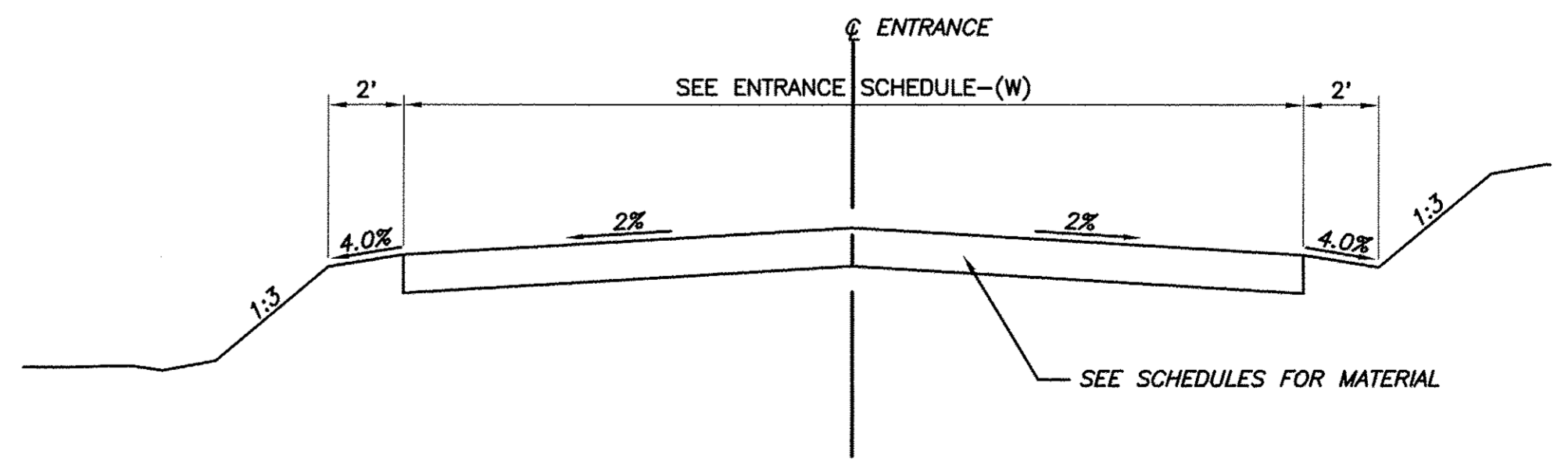
ENTRANCE DETAIL "A"
ENTRANCE WITH SIDEWALK

NOTE: GRADE BREAKS SHALL WITHIN THE PCC DRIVEWAY SHALL BE PERPENDICULAR TO THE EXISTING OR PROPOSED SIDEWALK/PATH OF TRAVEL. CROSS SLOPE WITHIN SIDEWALK PATH OF TRAVEL SHALL NOT EXCEED 2.00%.



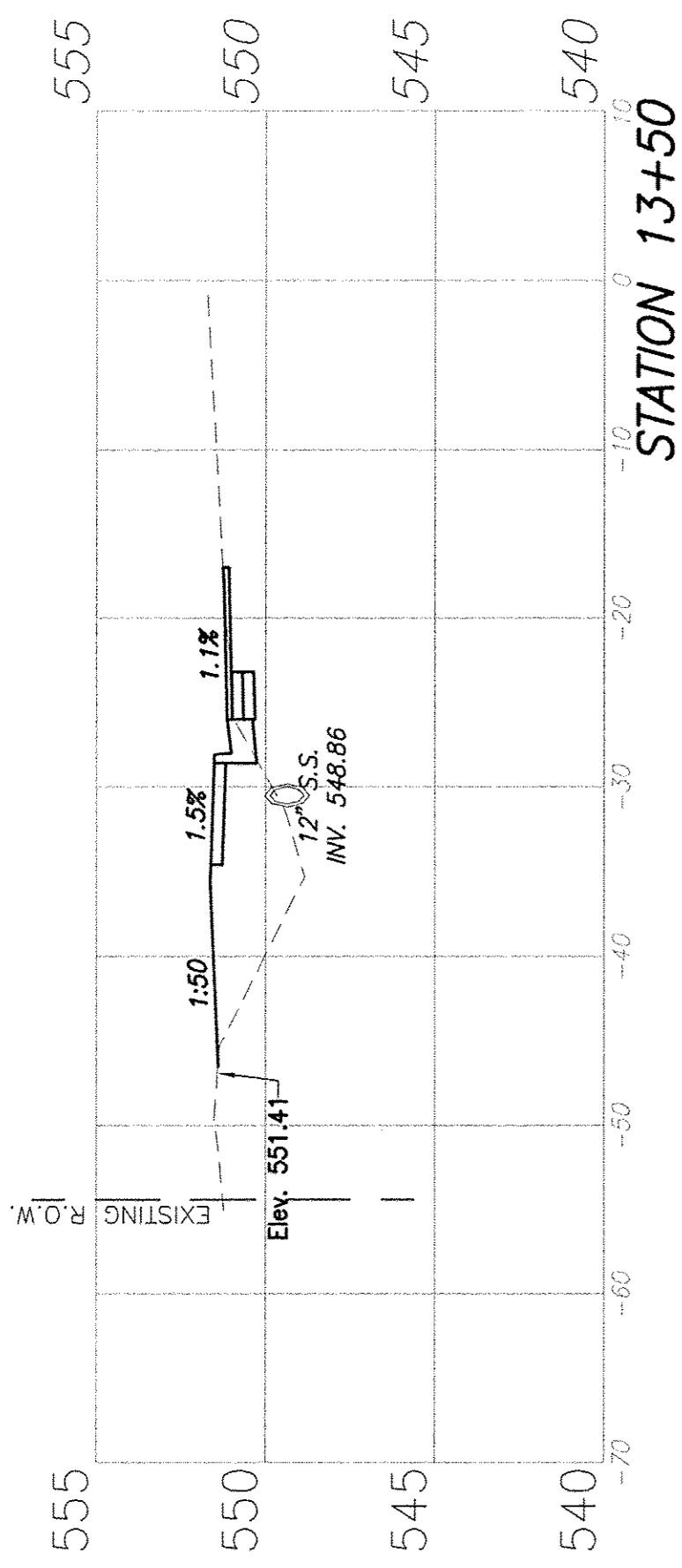
SECTION "A-A"

* SEE ENTRANCE SCHEDULE FOR DISTANCES
** SEE CROSS SECTIONS FOR SLOPES
*** EXPANSION REQUIRED ADJACENT TO CONCRETE DRIVEWAY PAVEMENT

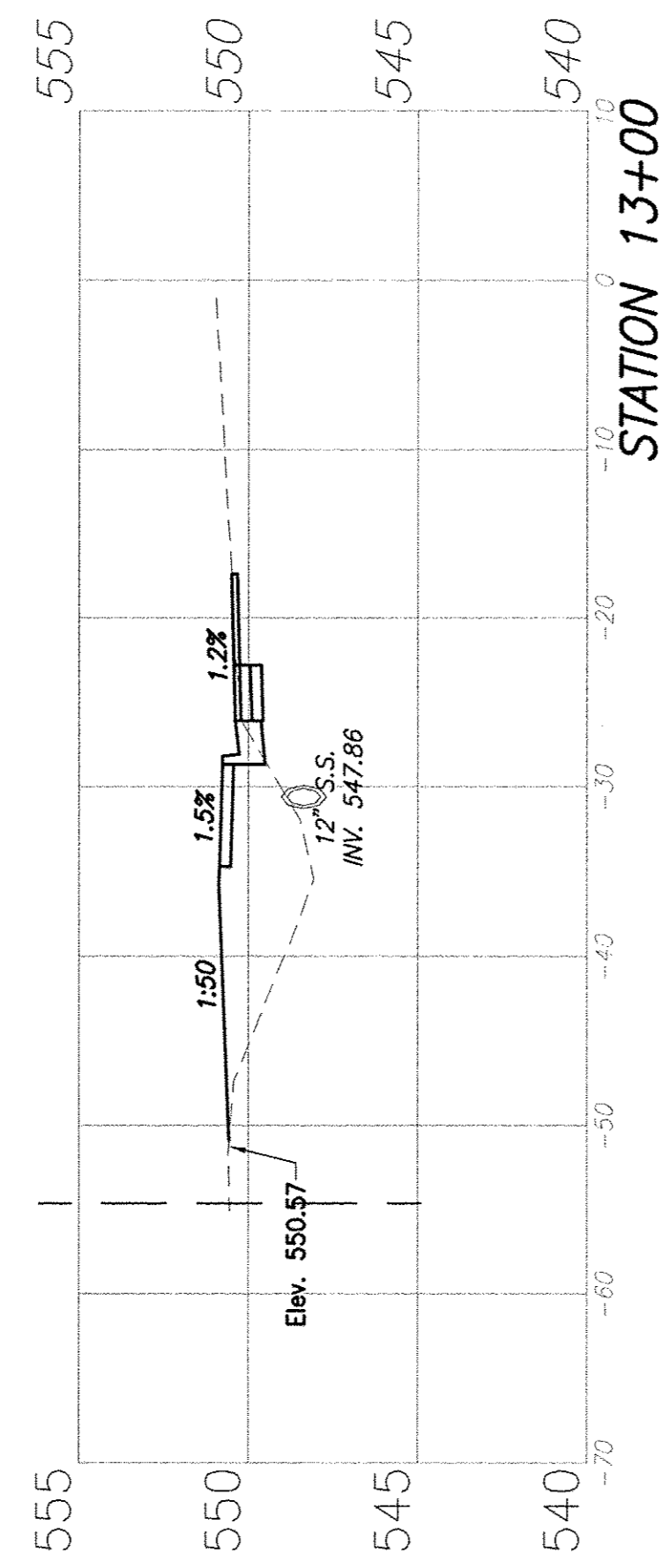


SECTION "B-B"

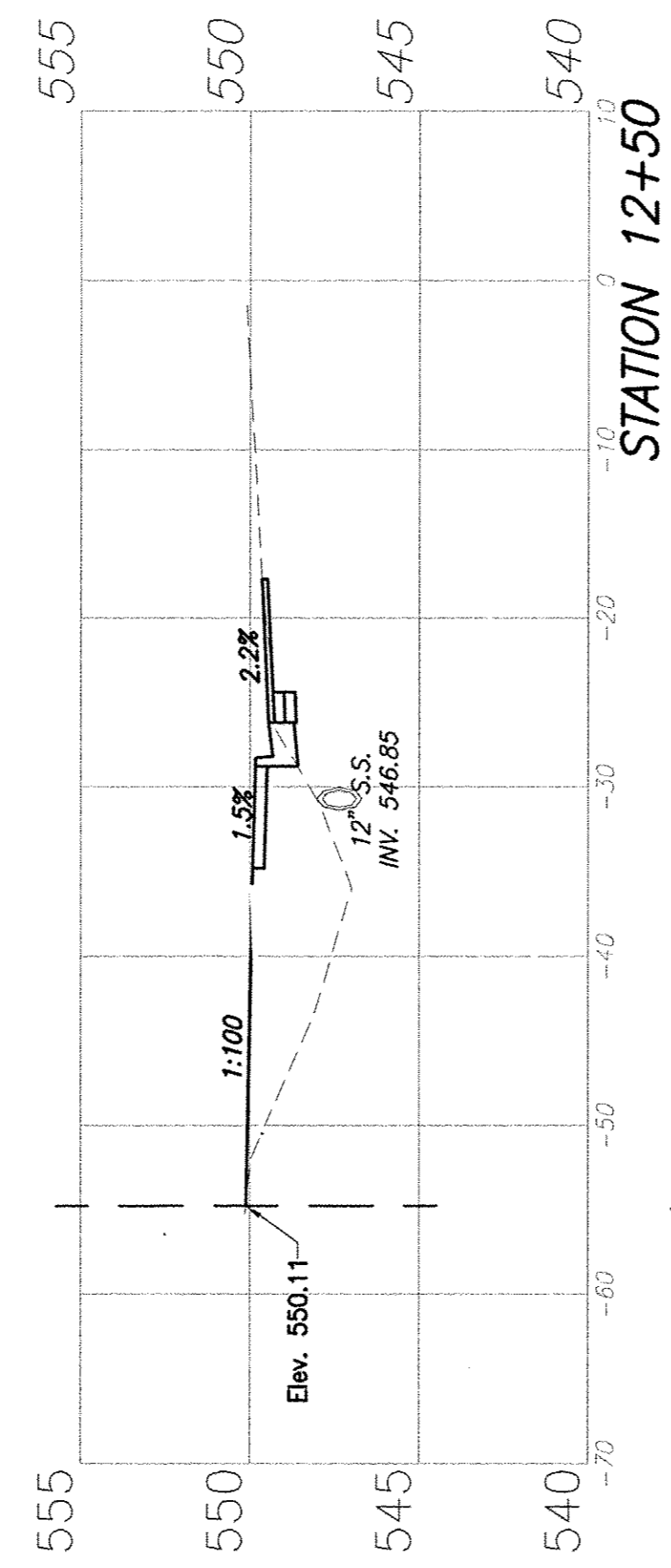
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	16
FEDERAL AID PROJECT		CONTRACT 97641		



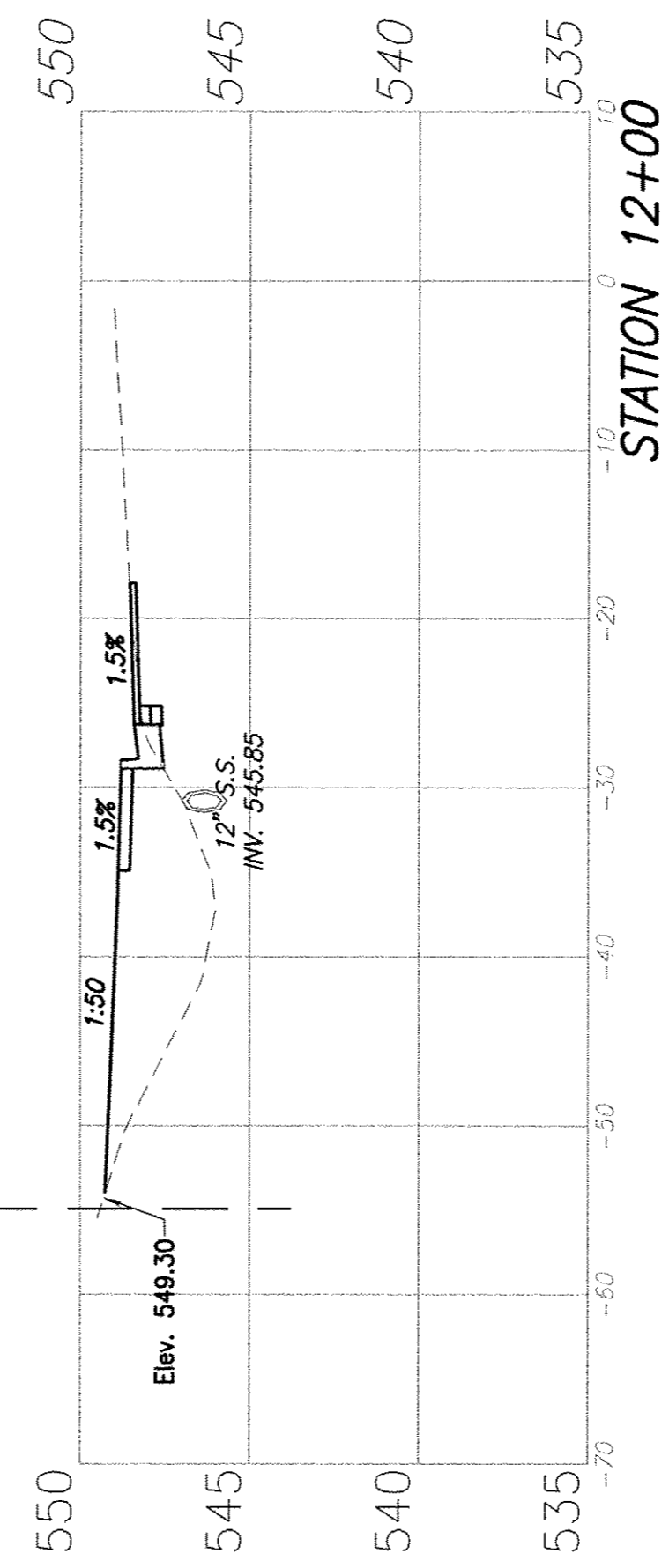
CUT = 2.5 S.F.
 FILL = 24.5 S.F.
 CUT ASSOCIATED WITH STORM SEWER CONSTRUCTION = 3.7 S.F.



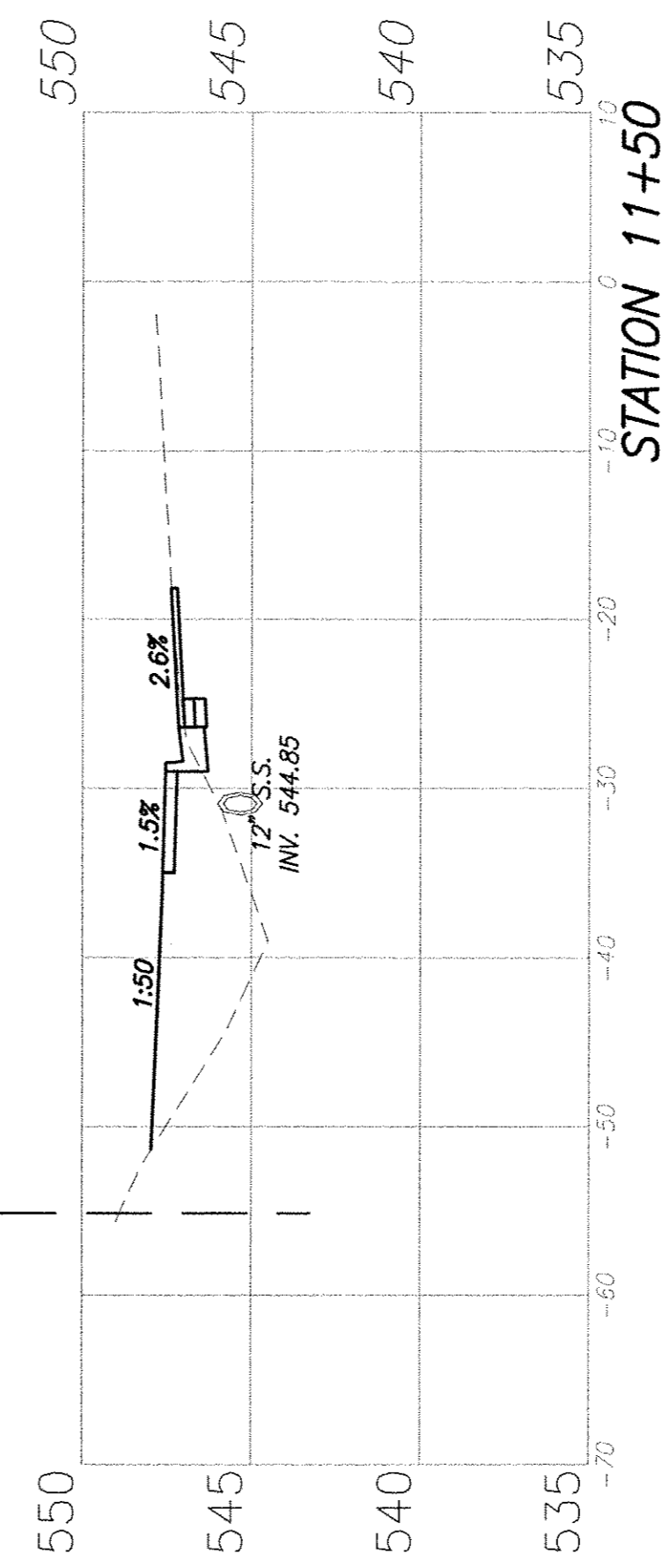
CUT = 3.0 S.F.
 FILL = 30.0 S.F.
 CUT ASSOCIATED WITH STORM SEWER CONSTRUCTION = 4.0 S.F.



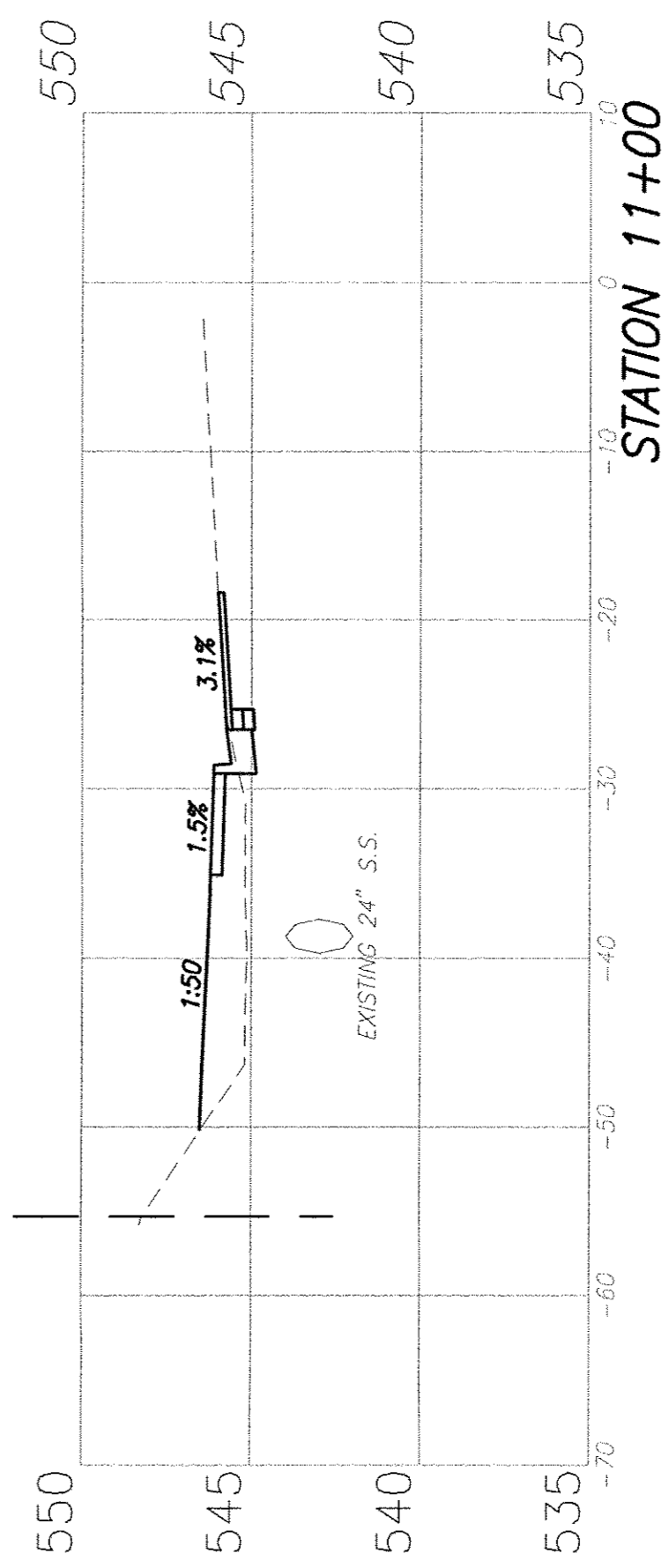
CUT = 2.0 S.F.
 FILL = 35.5 S.F.
 CUT ASSOCIATED WITH STORM SEWER CONSTRUCTION = 5.0 S.F.



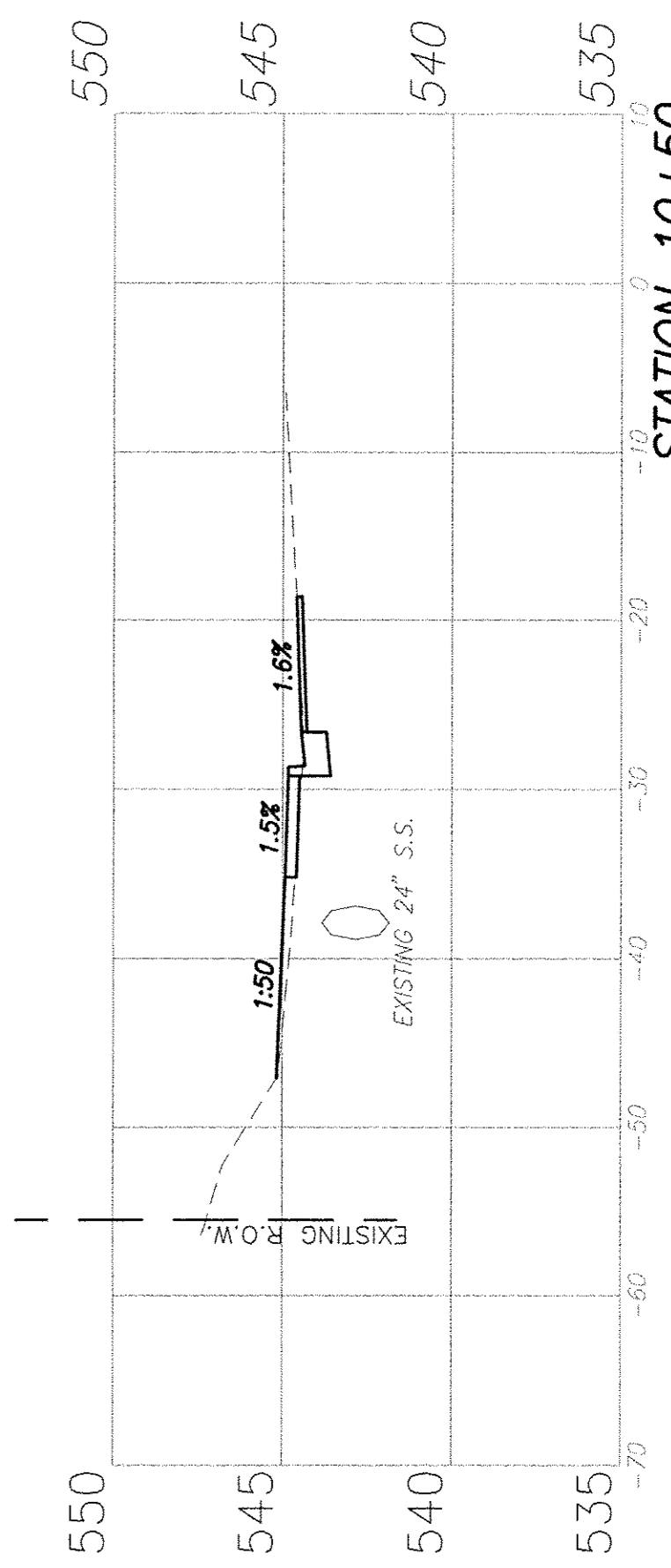
CUT = 1.4 S.F.
 FILL = 42.0 S.F.
 CUT ASSOCIATED WITH STORM SEWER CONSTRUCTION = 5.0 S.F.



CUT = 2.3 S.F.
 FILL = 40.4 S.F.
 CUT ASSOCIATED WITH STORM SEWER CONSTRUCTION = 5.1 S.F.

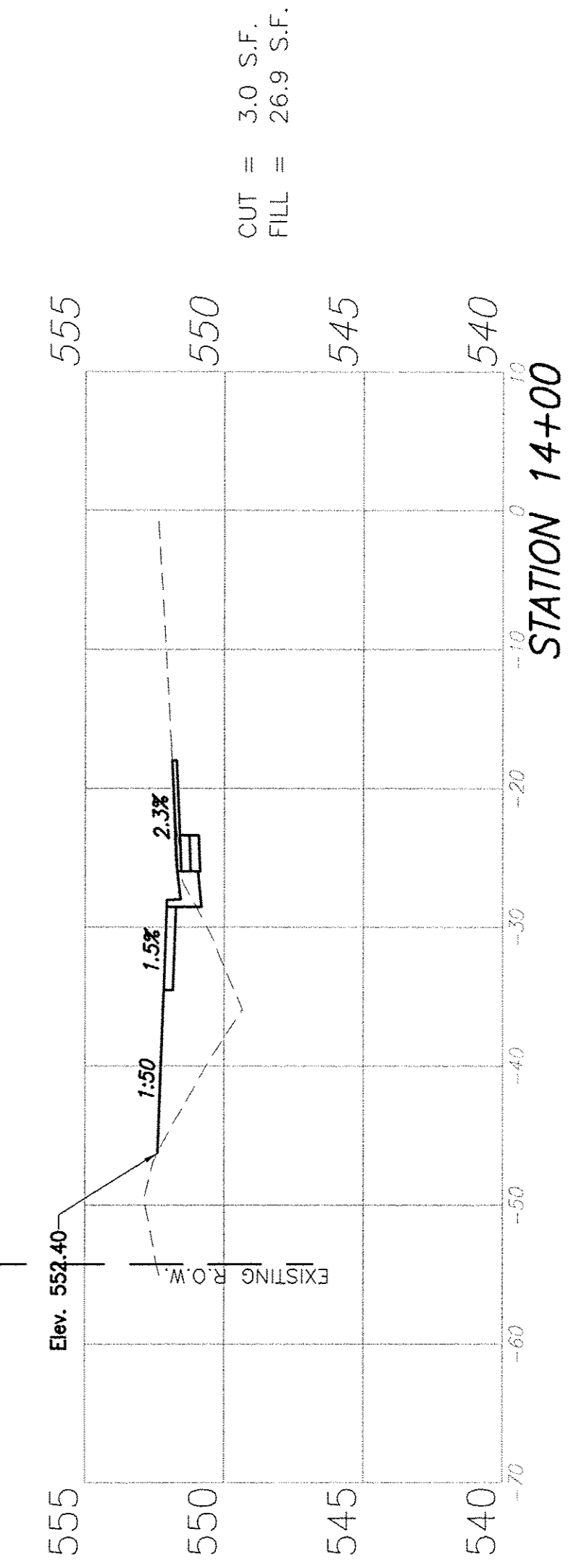
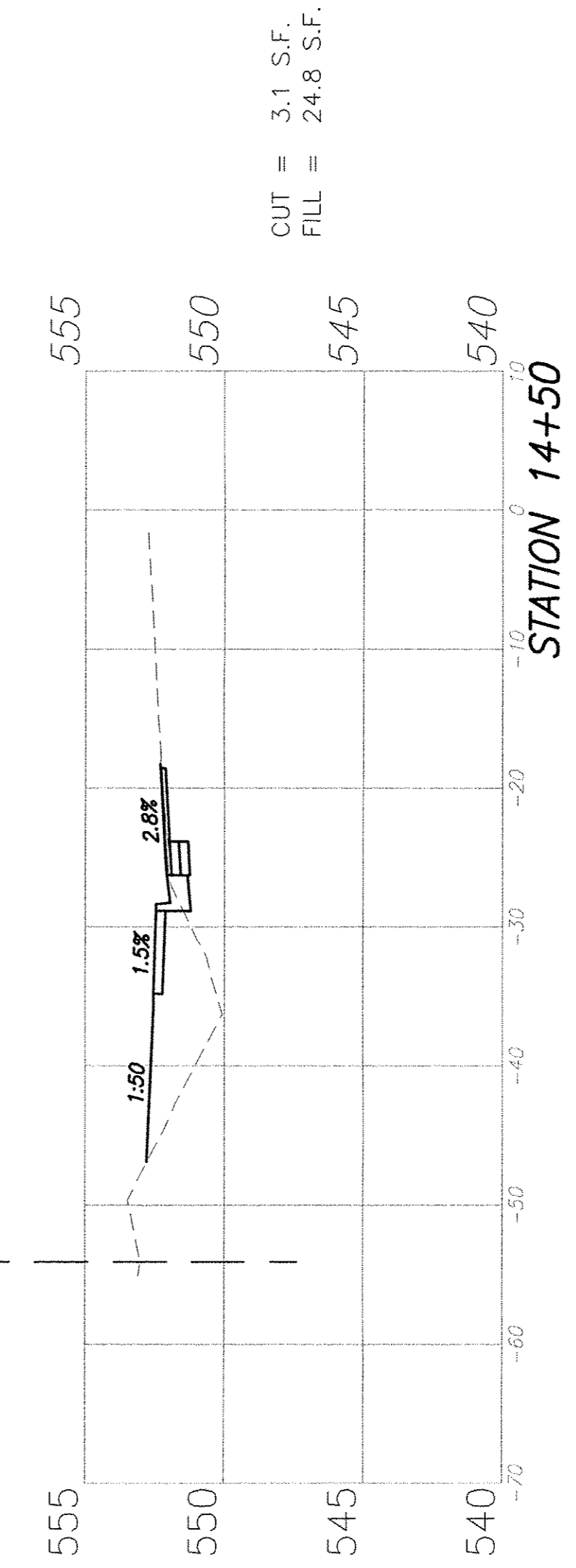
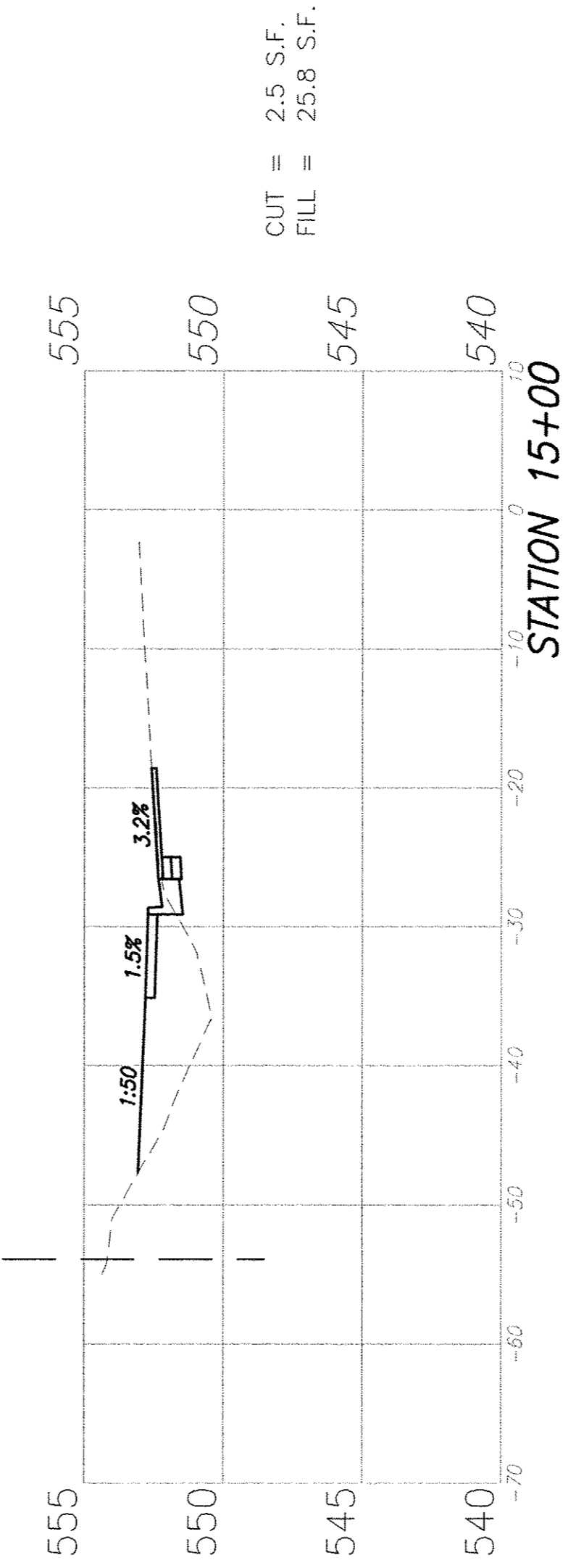
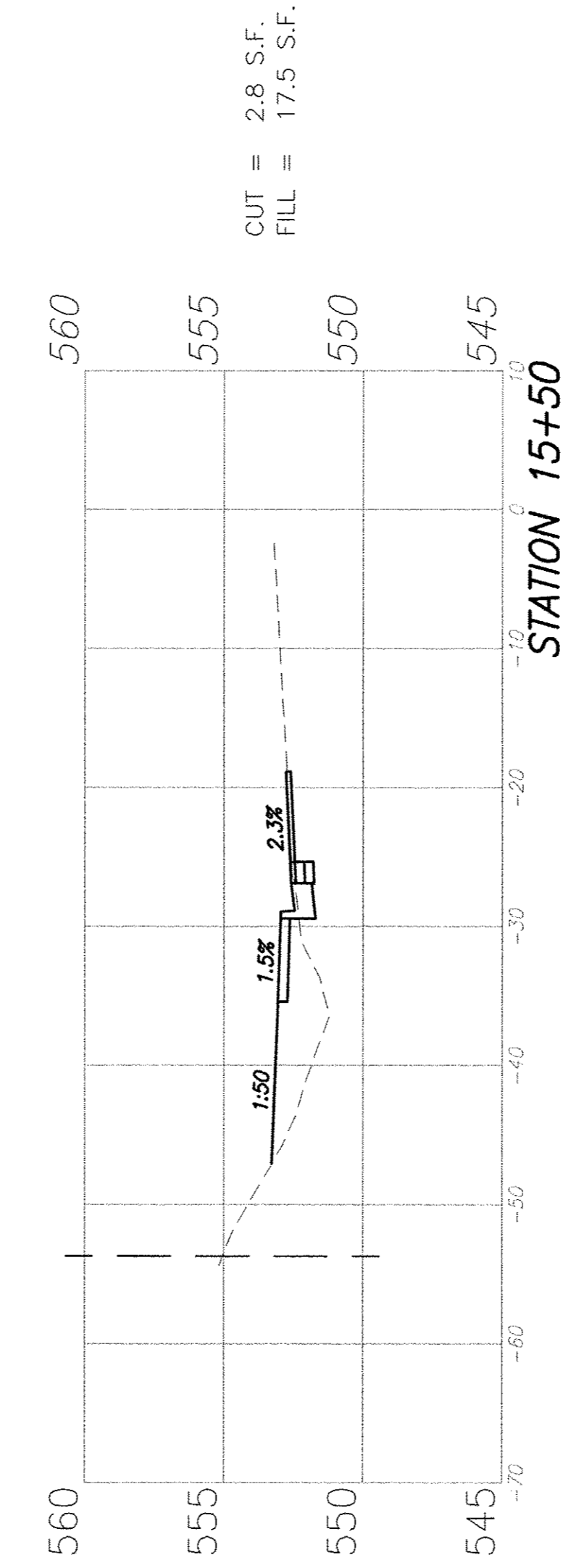
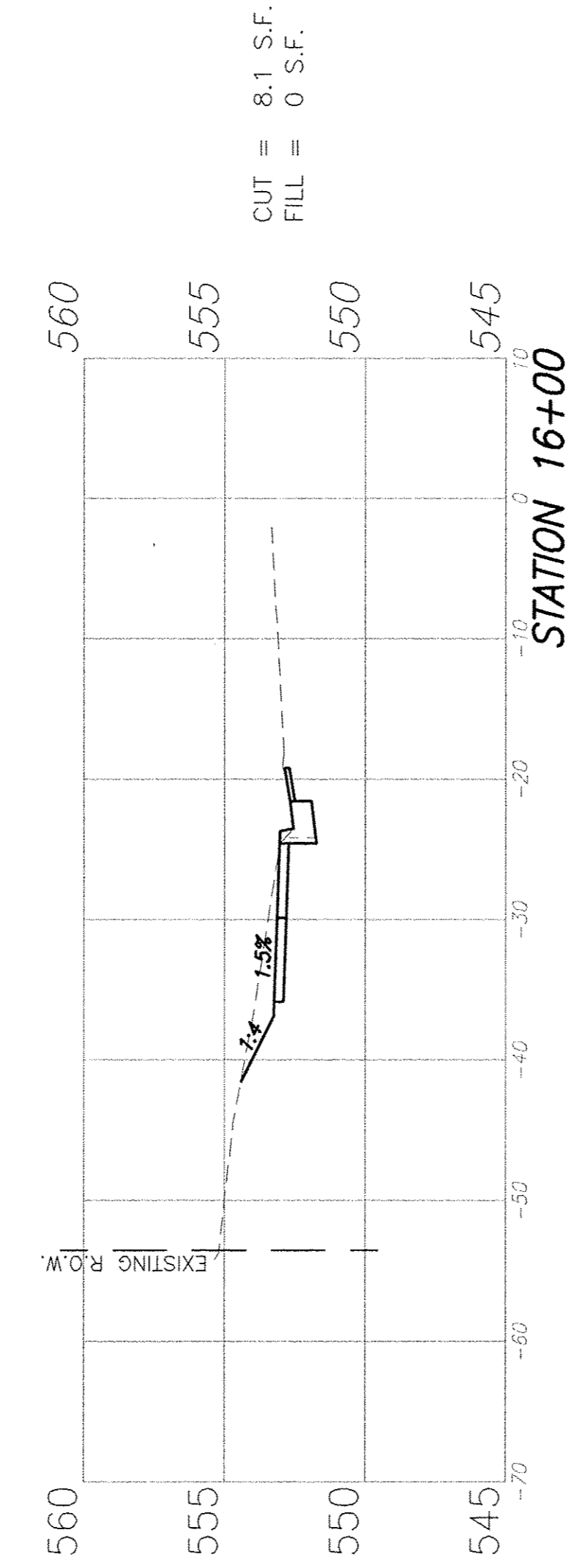
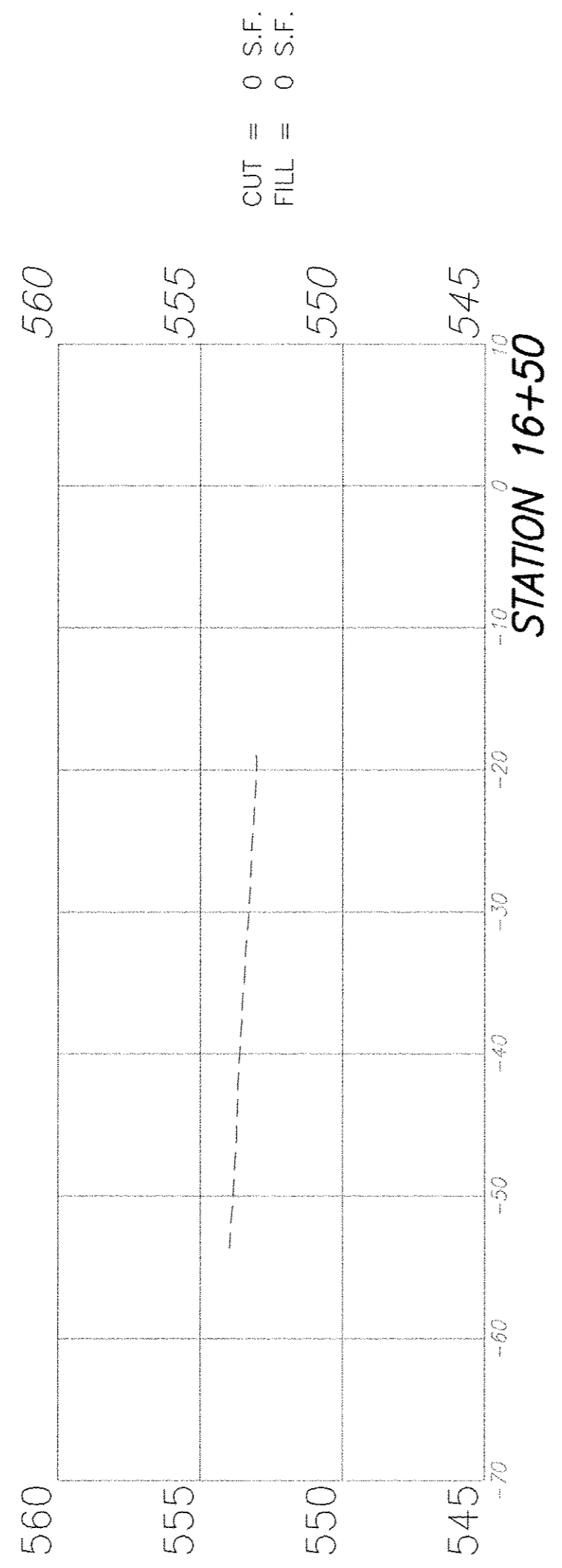
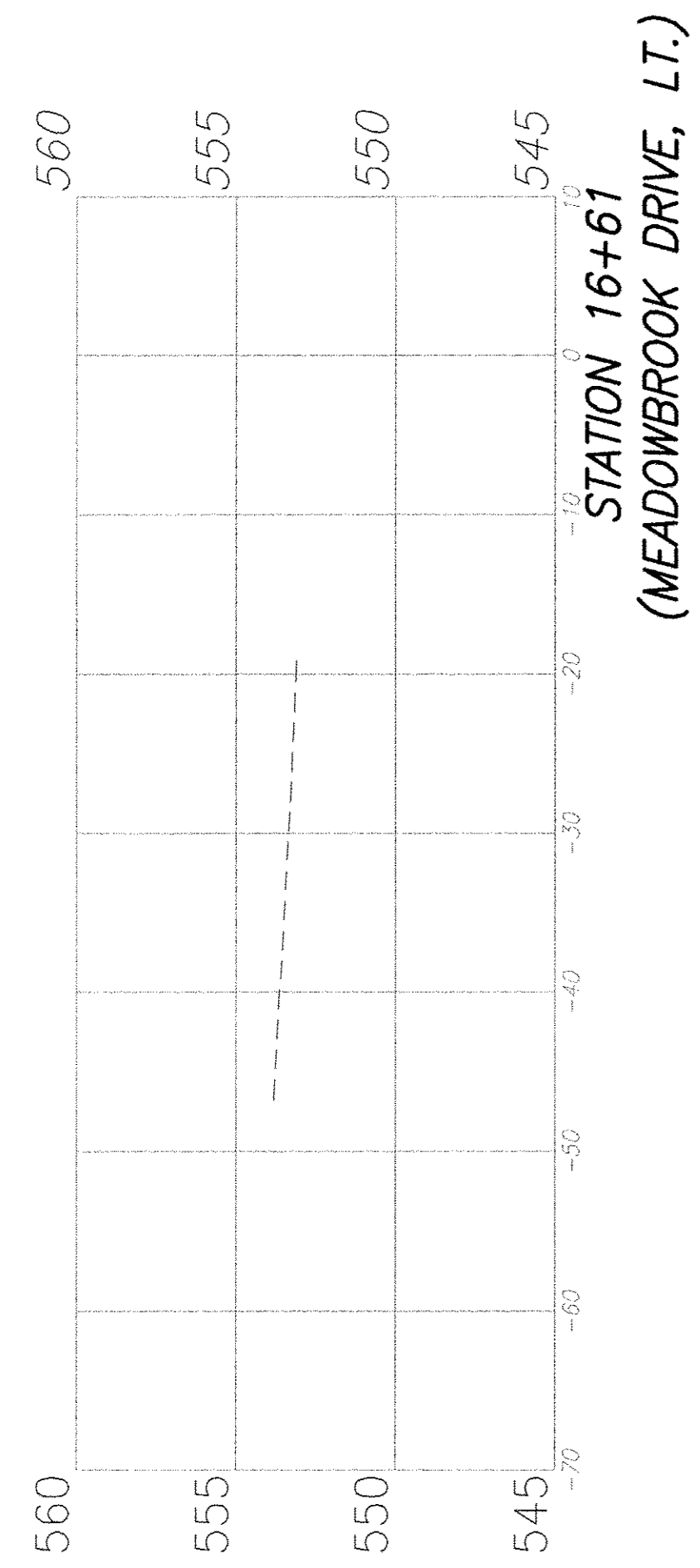


CUT = 2.5 S.F.
 FILL = 19.0 S.F.



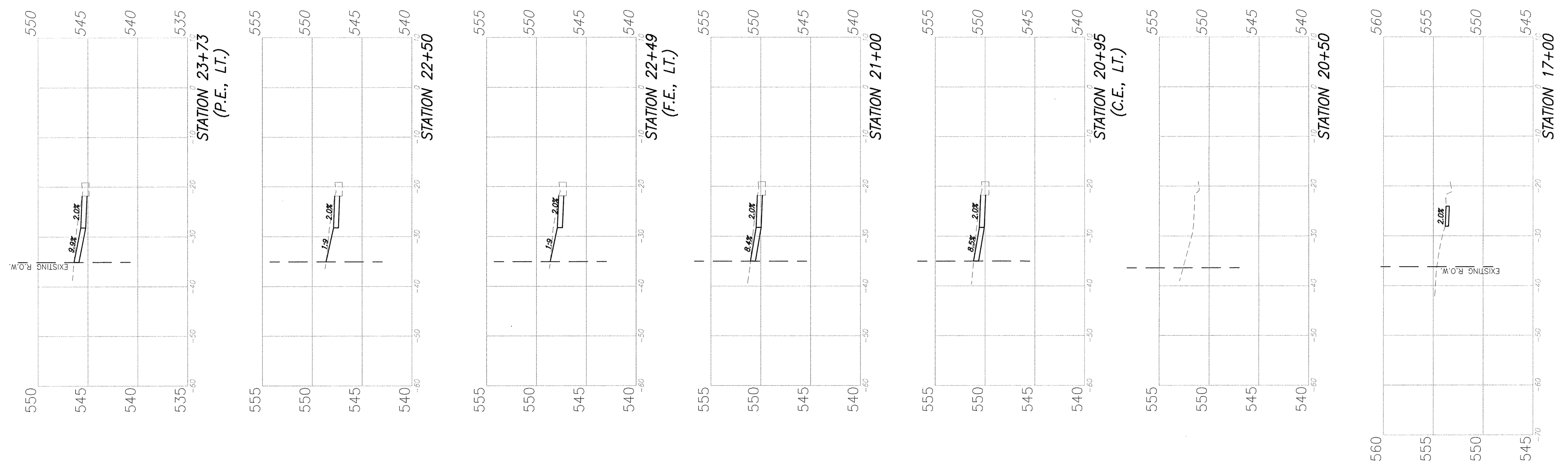
CUT = 2.0 S.F.
 FILL = 2.2 S.F.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	17
FEDERAL AID PROJECT		CONTRACT 97641		



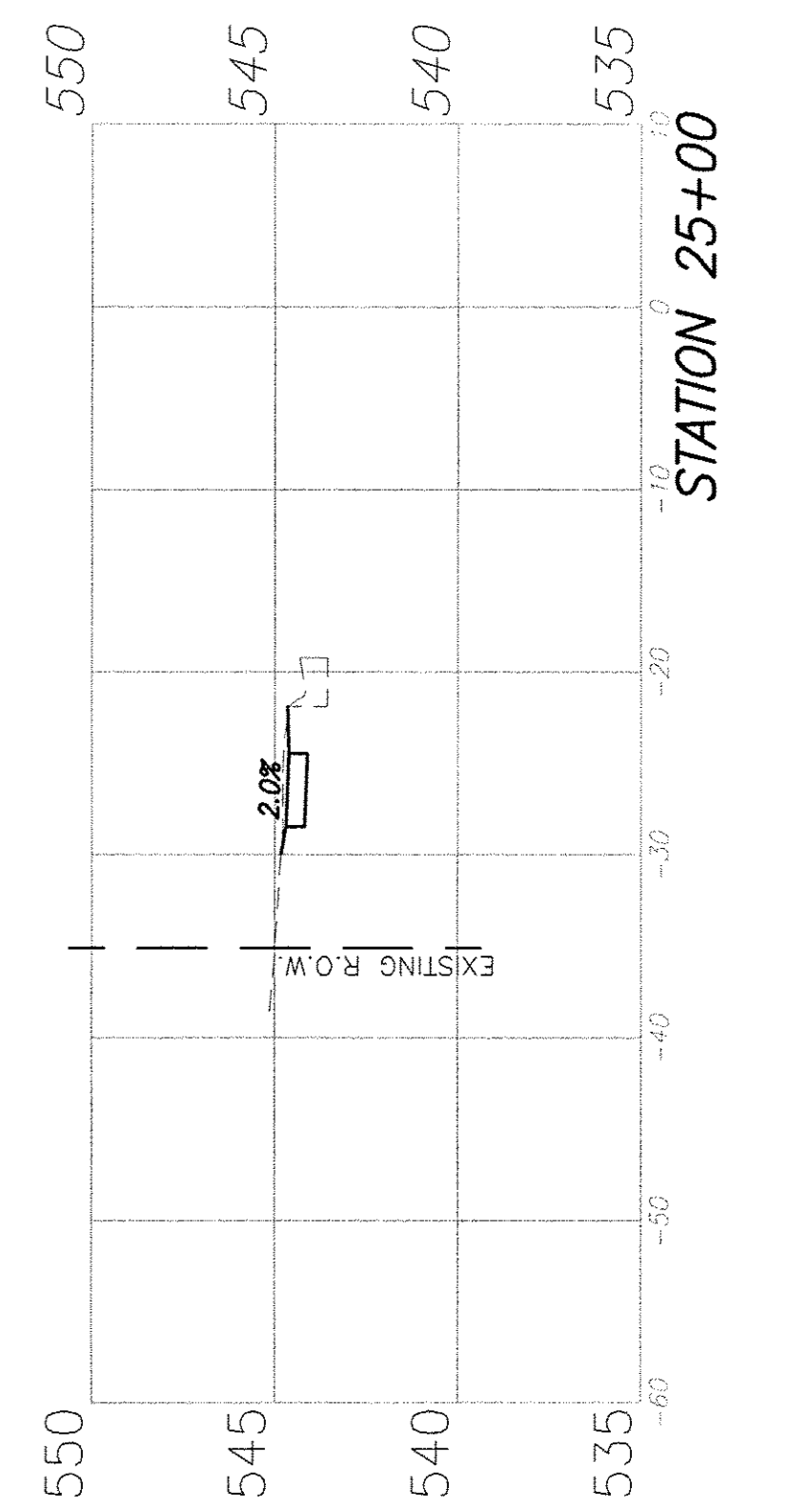
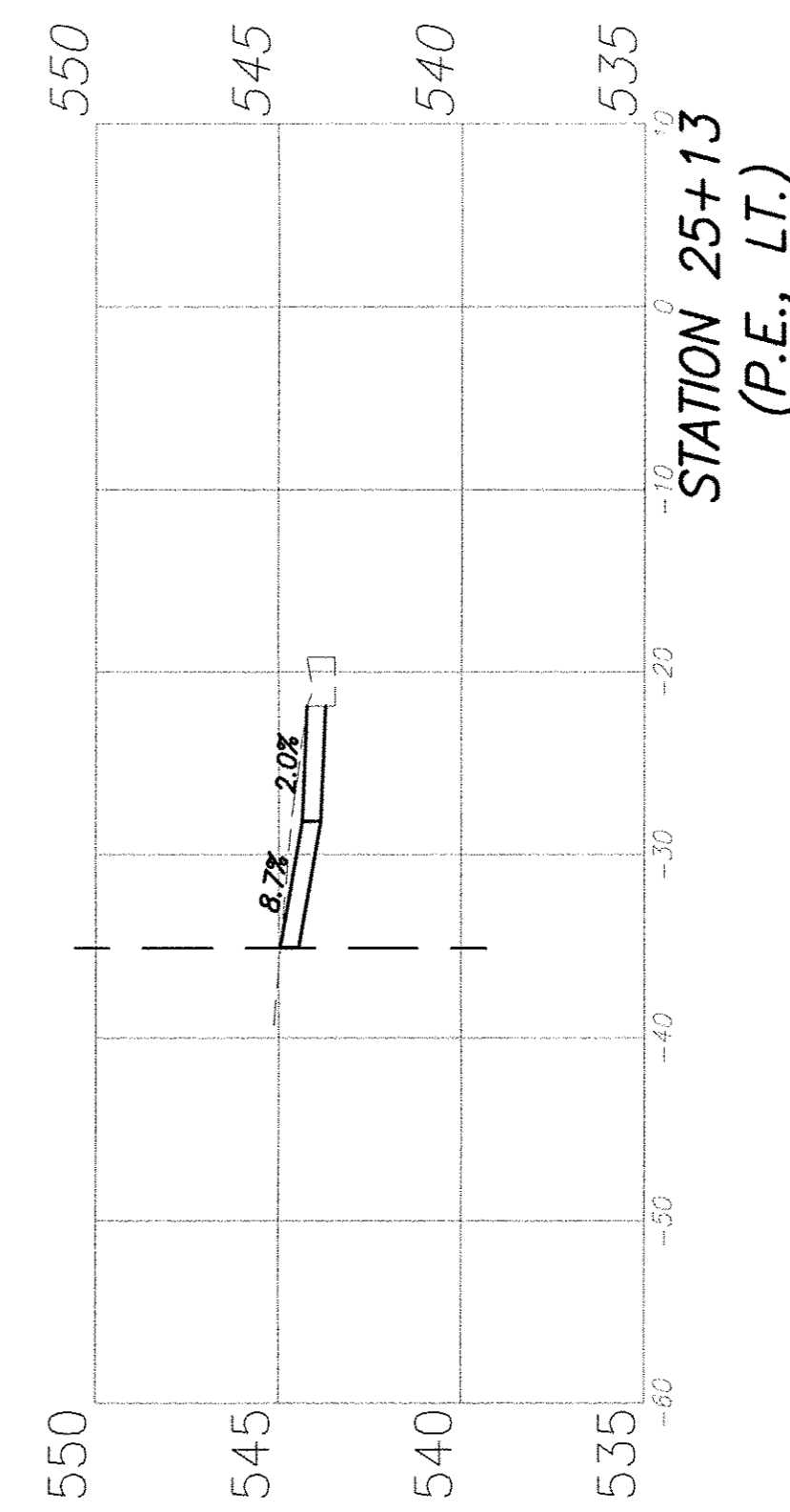
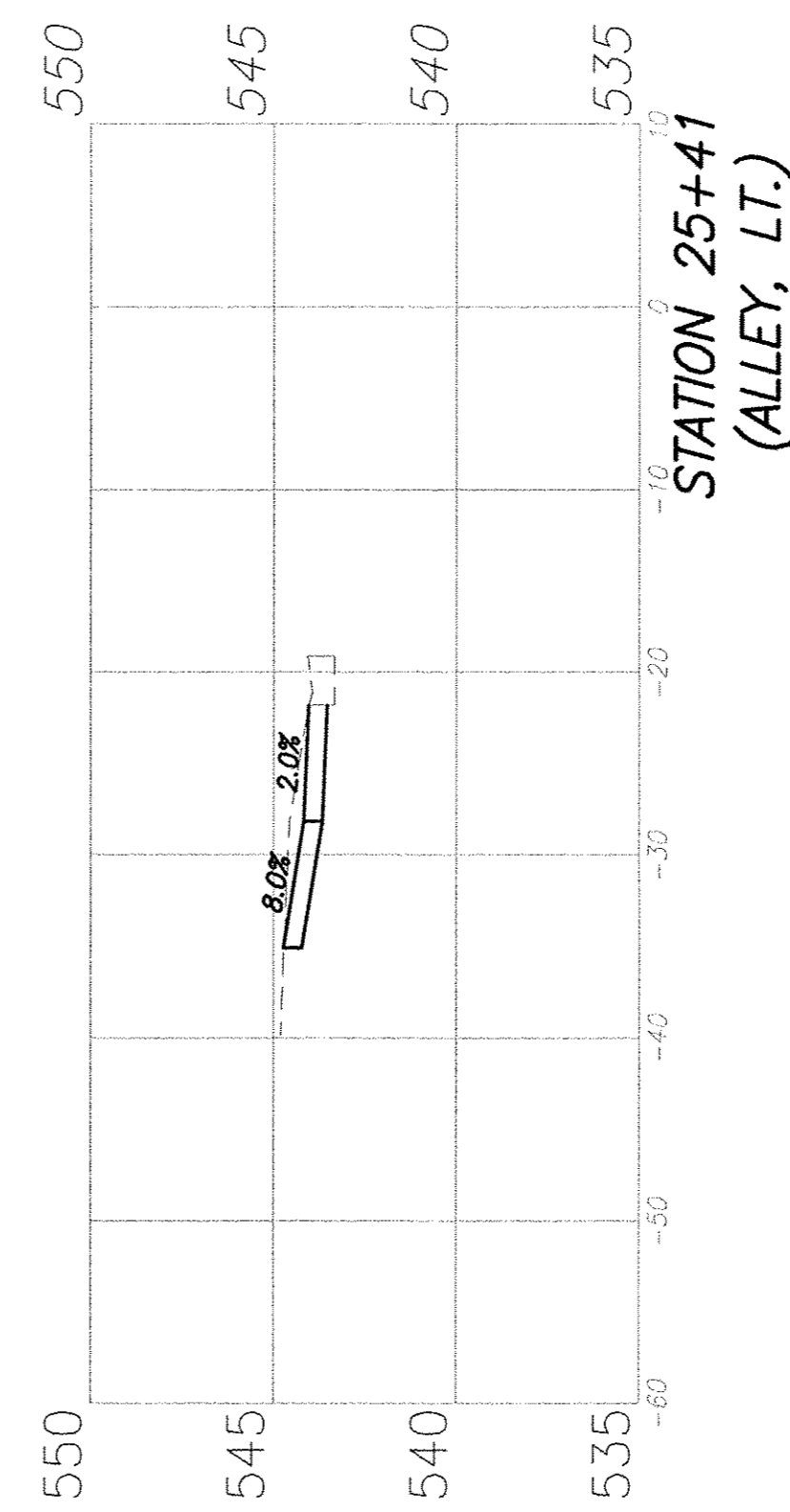
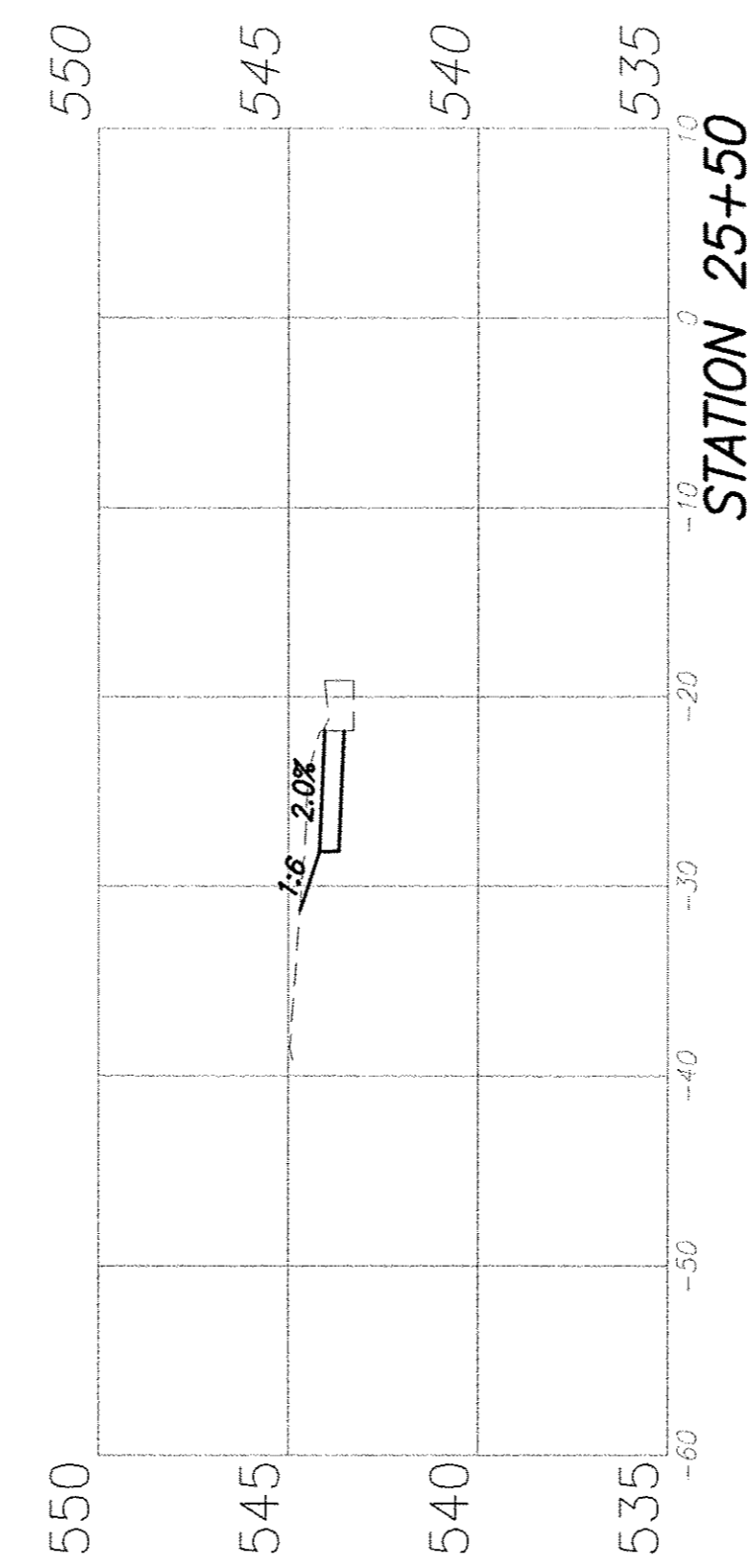
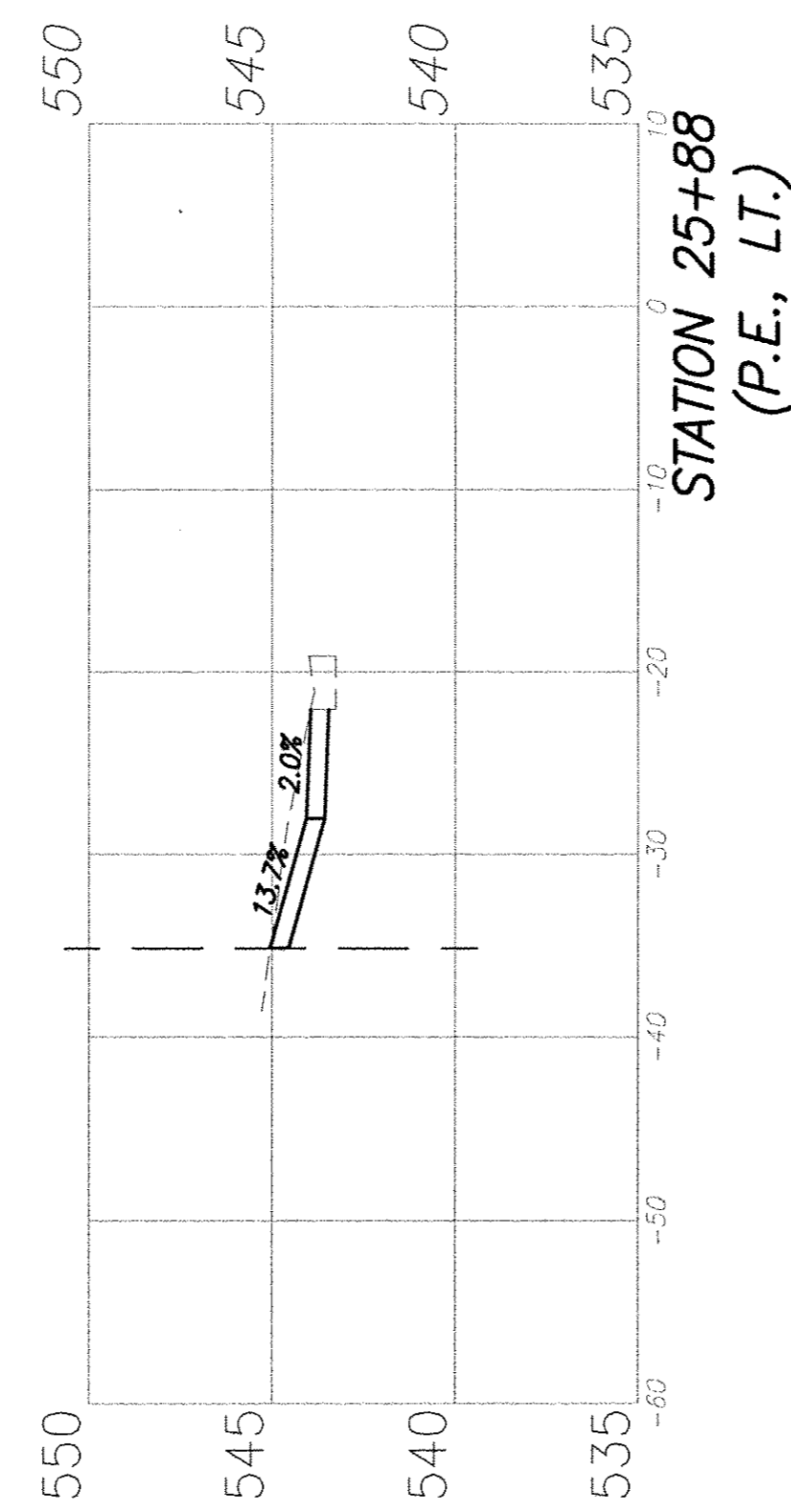
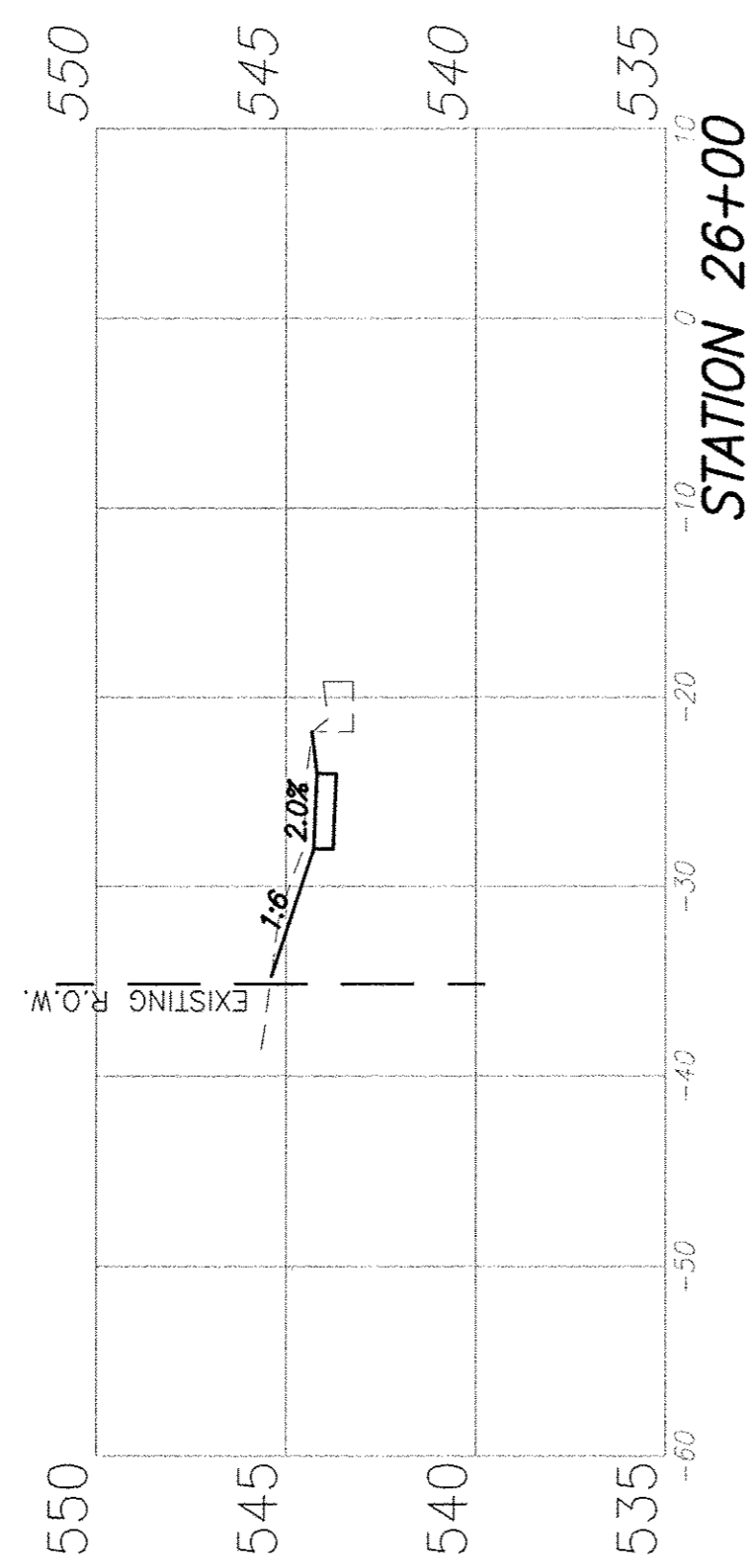
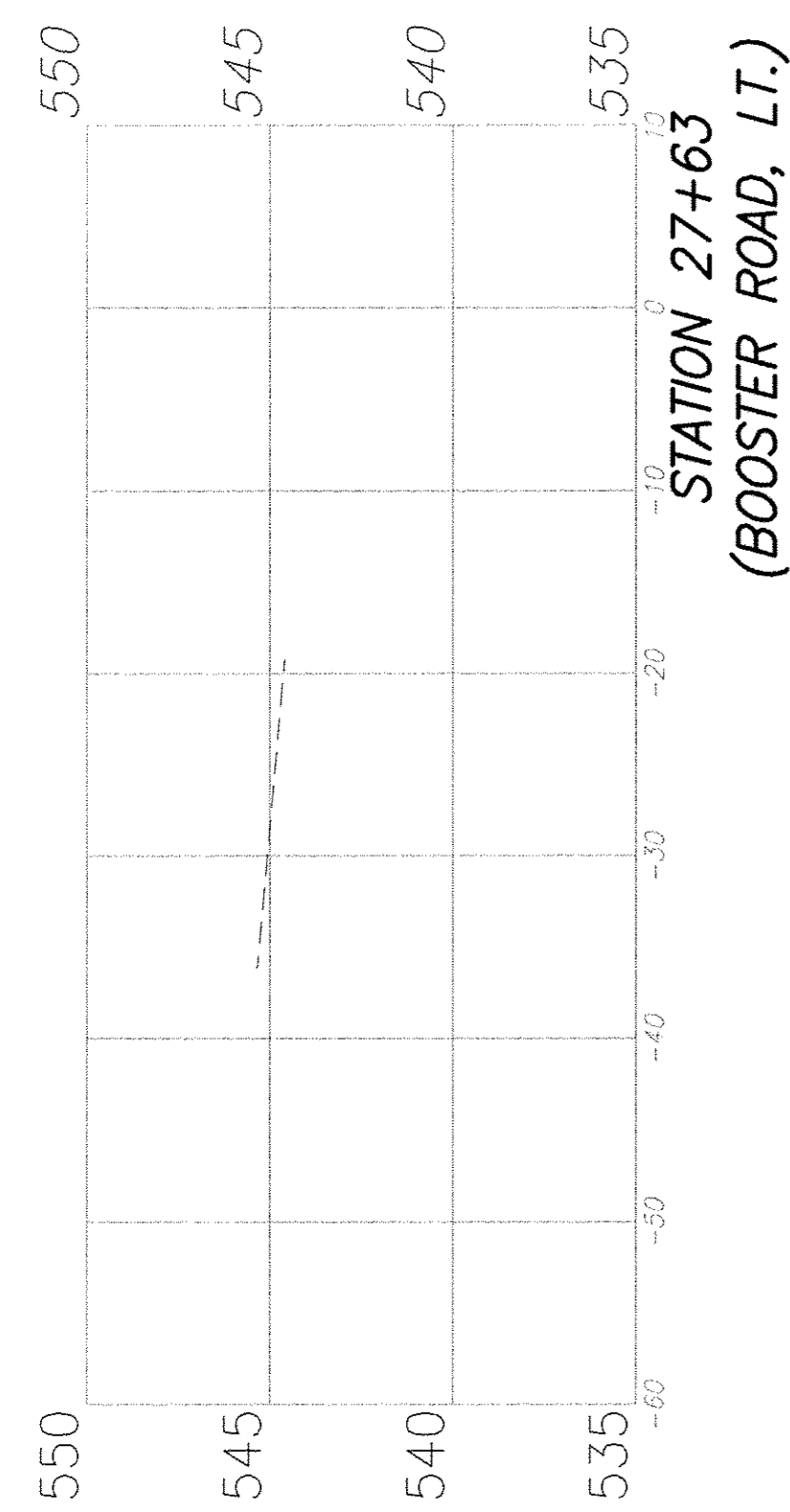
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	18
FEDERAL AID PROJECT		CONTRACT 97641		

NOTE: EARTH EXCAVATION ASSOCIATED WITH IMPROVEMENTS NORTH OF HIGHWAY MARK DRIVE ON HARTMAN LANE SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.



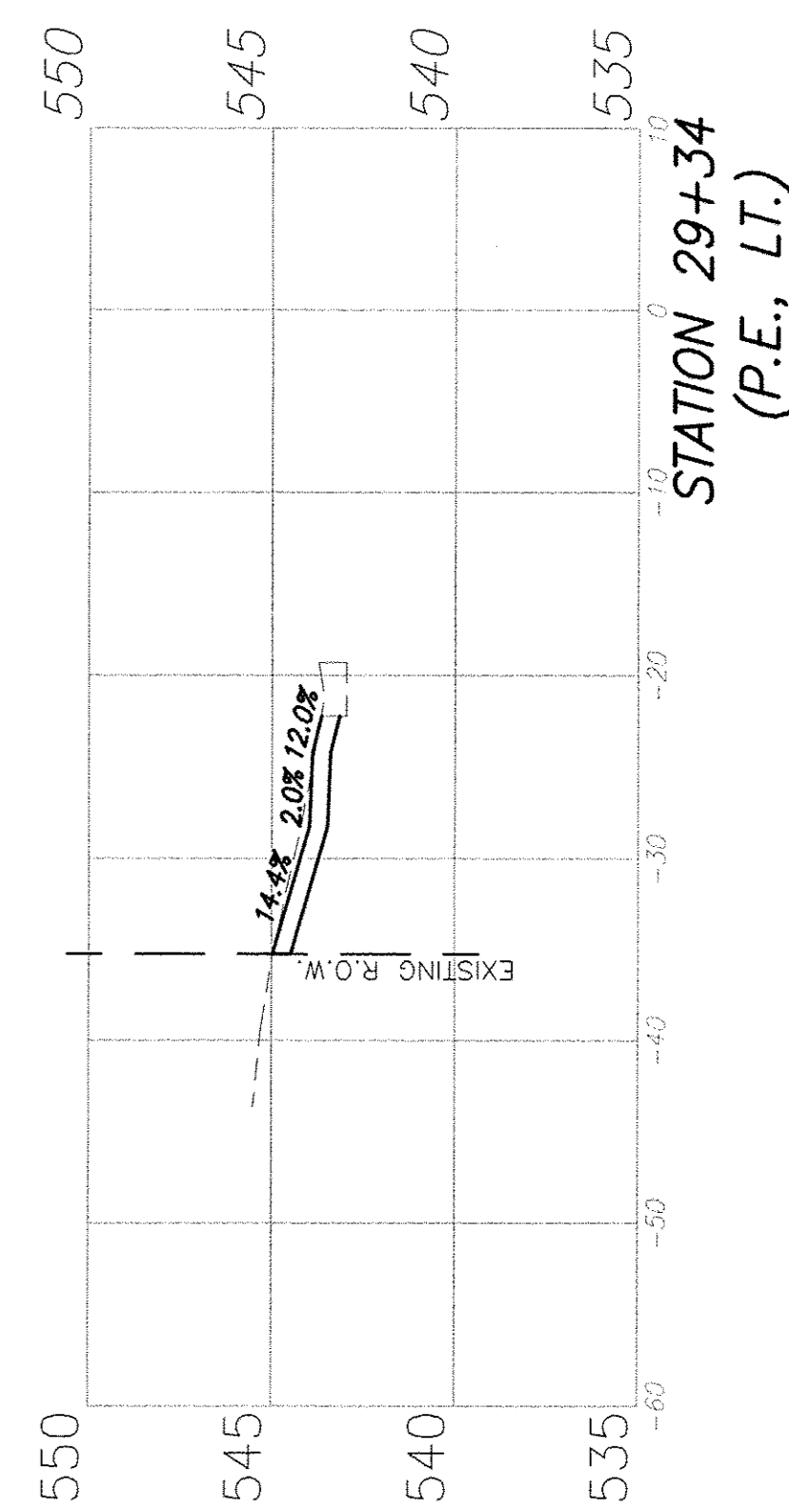
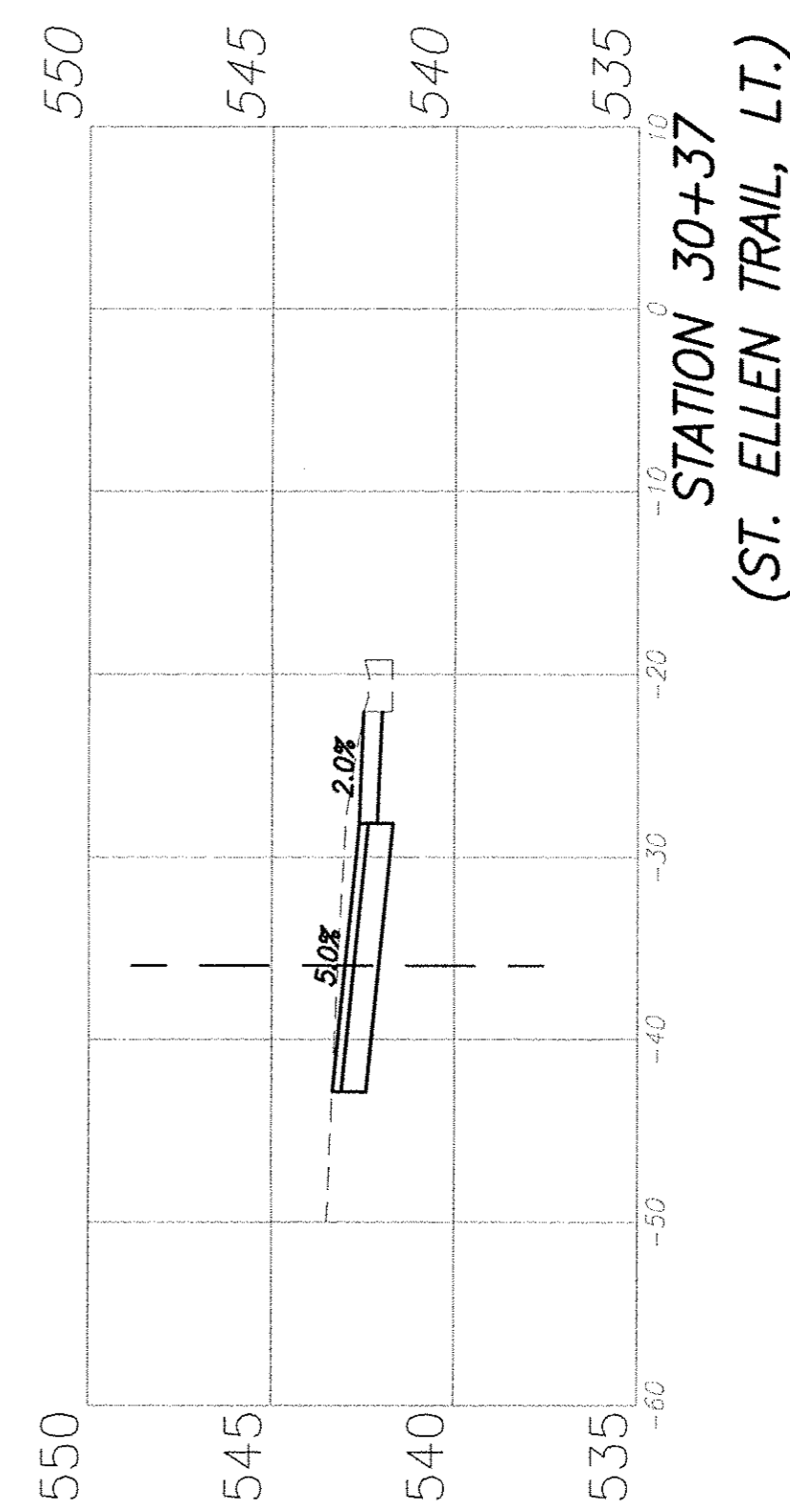
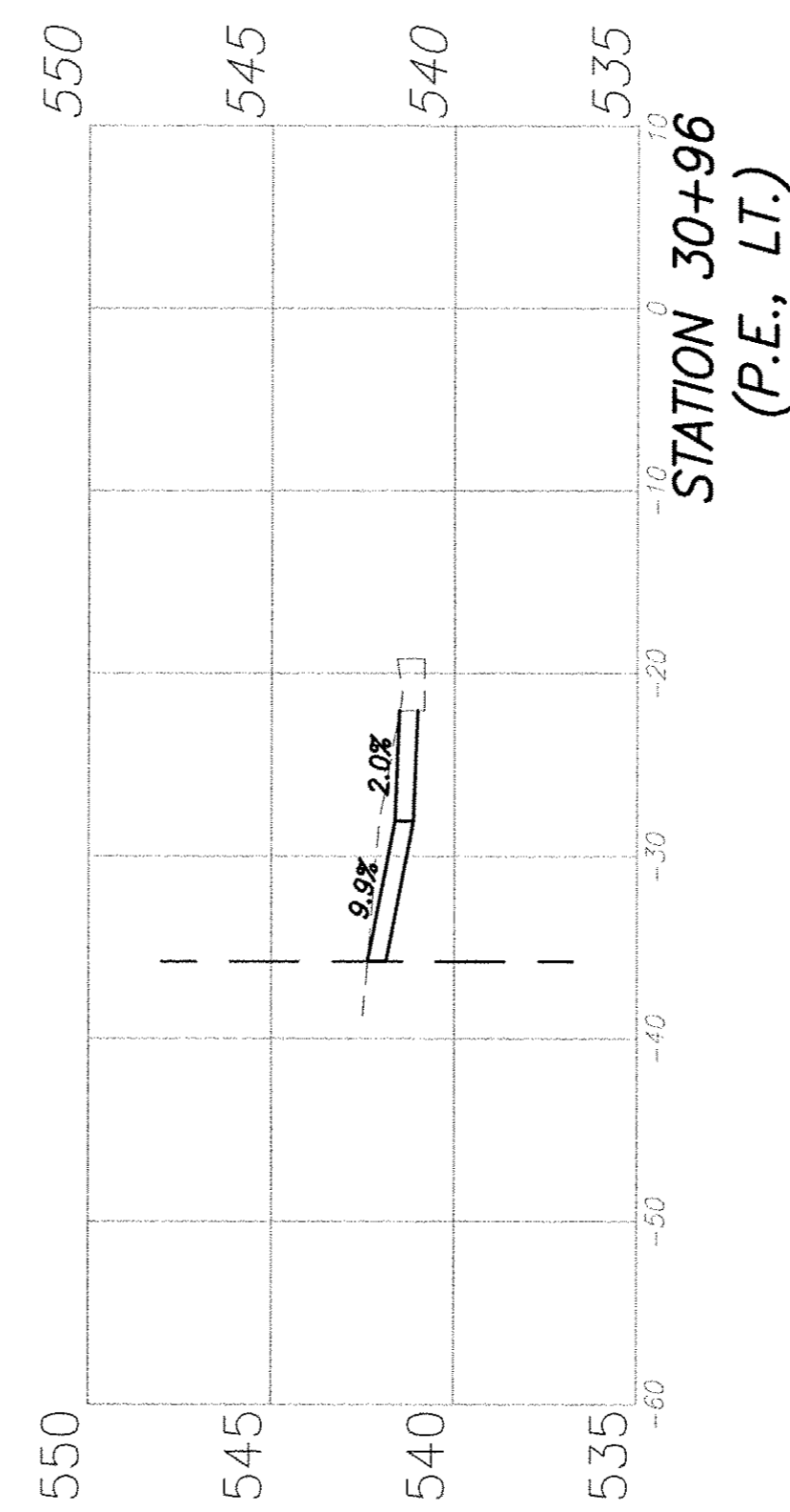
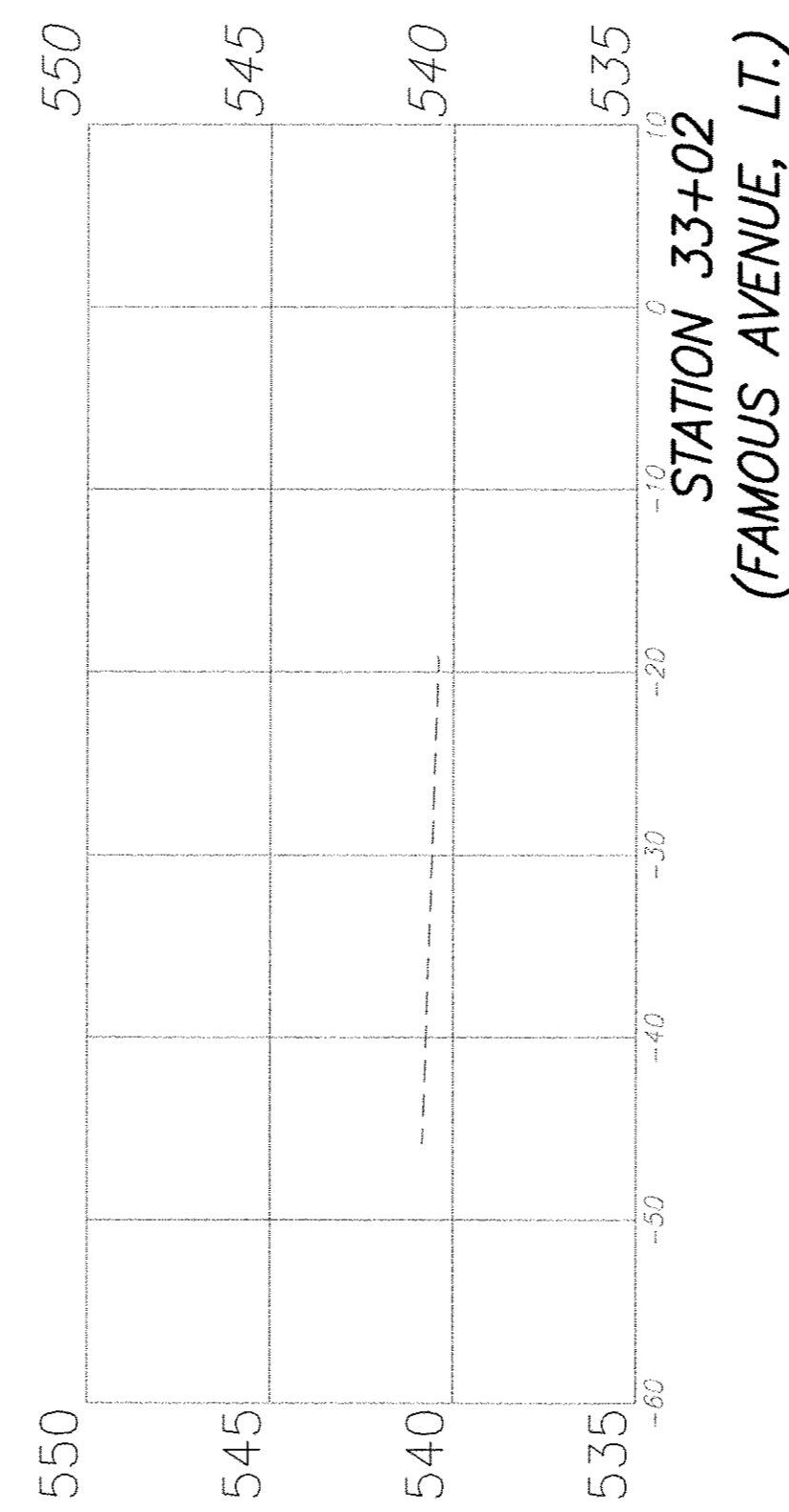
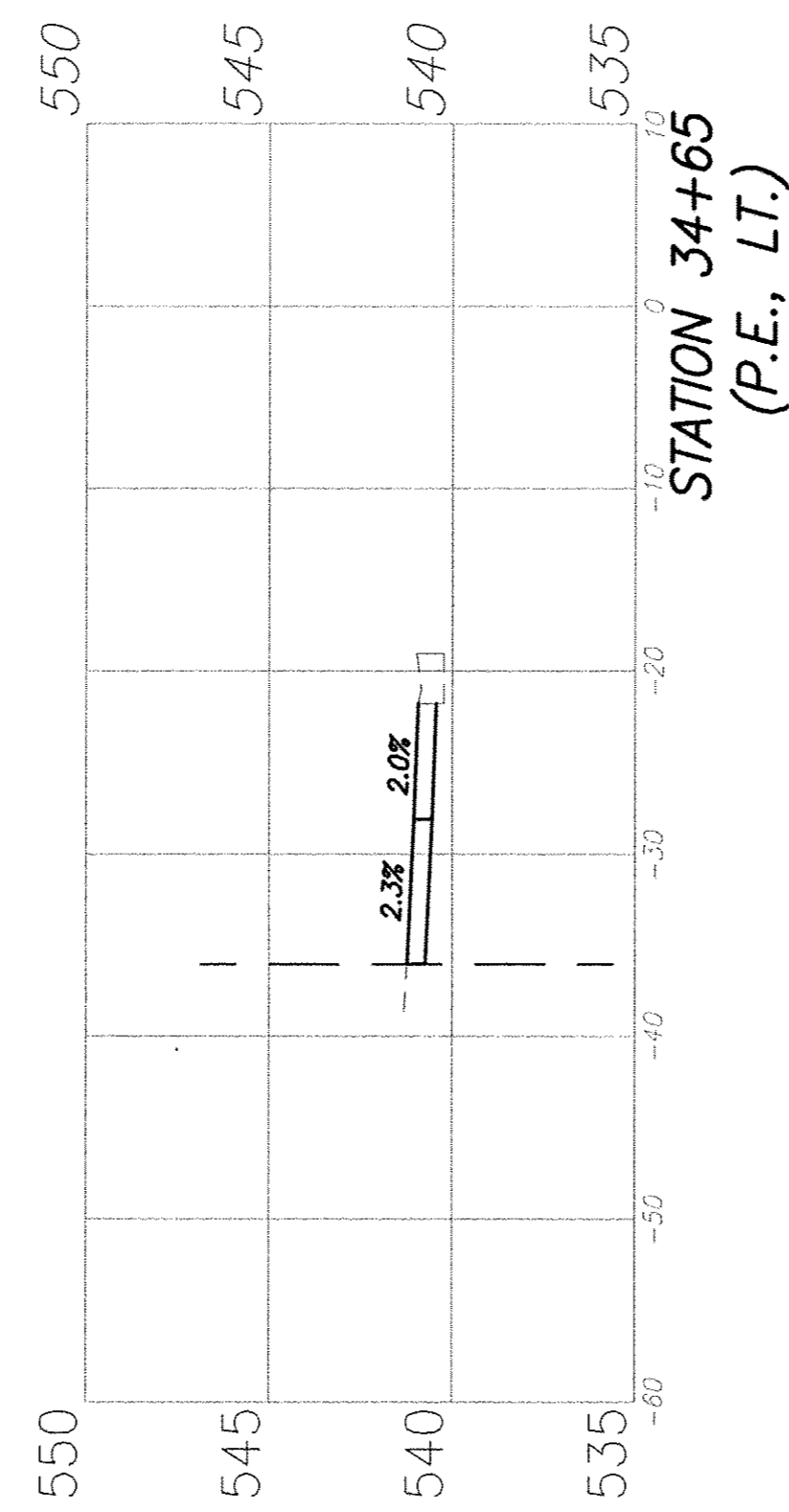
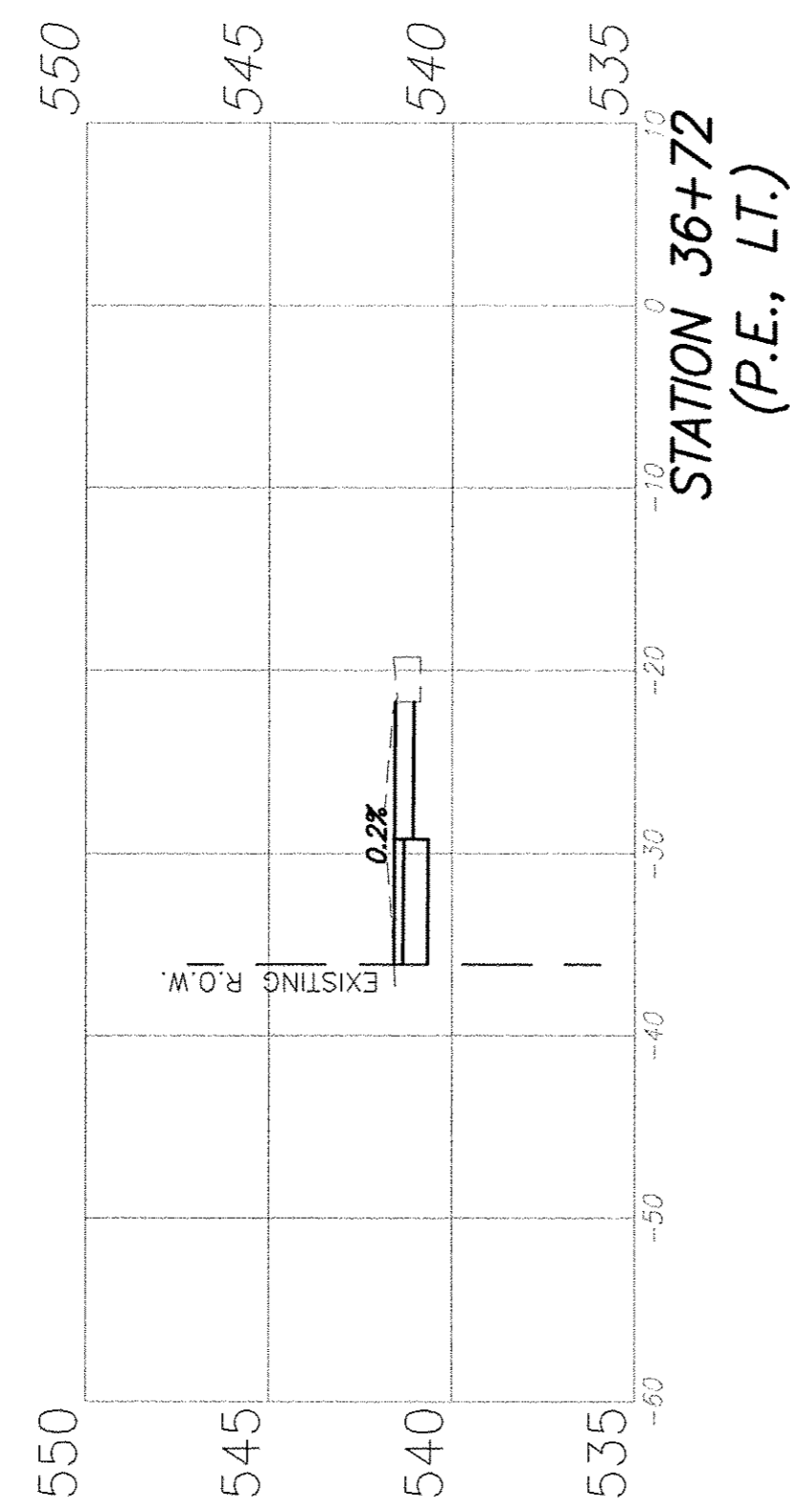
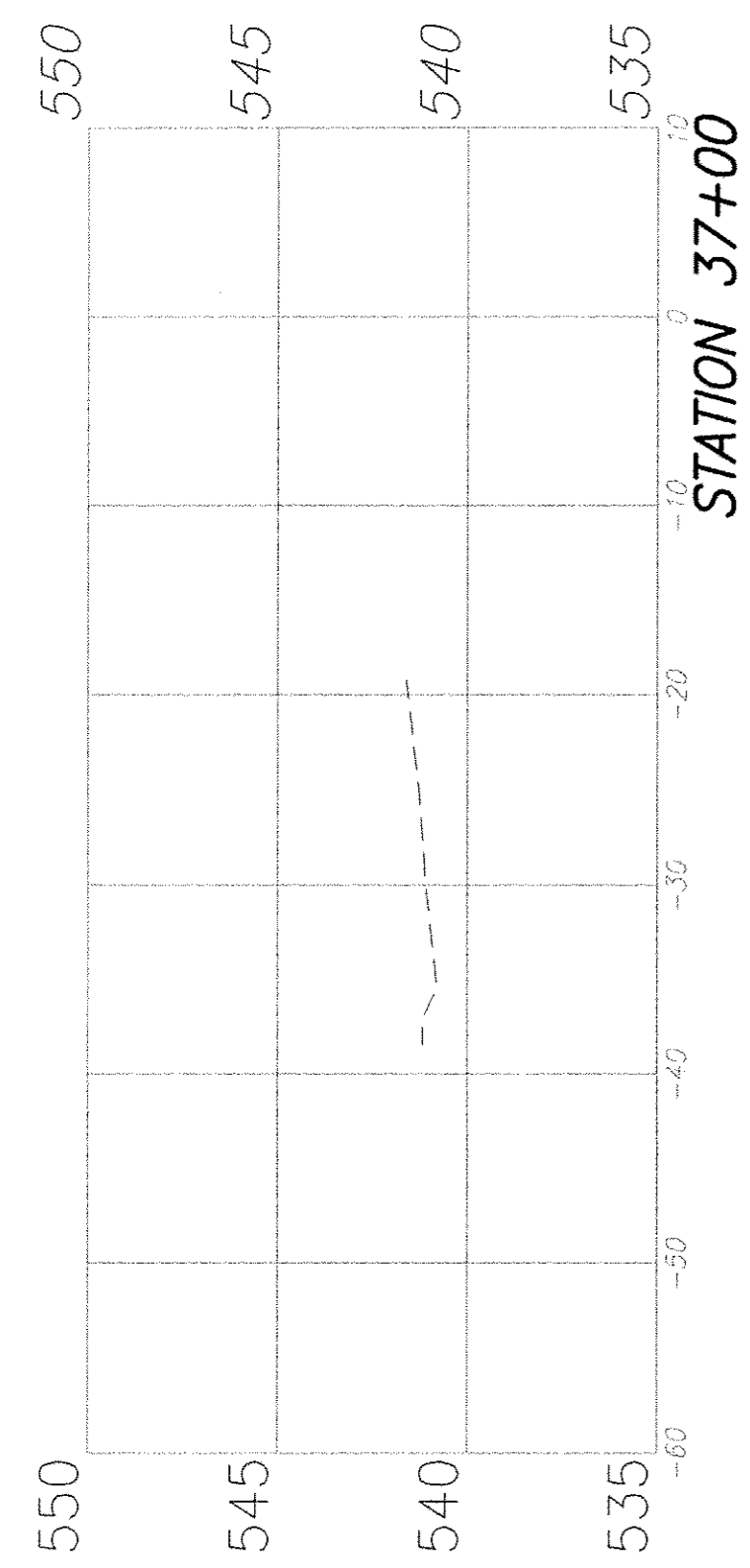
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	19
FEDERAL AID PROJECT		CONTRACT 97641		

NOTE: EARTH EXCAVATION ASSOCIATED WITH IMPROVEMENTS NORTH OF MEADOW LARK DRIVE ON HARTMAN LANE SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.



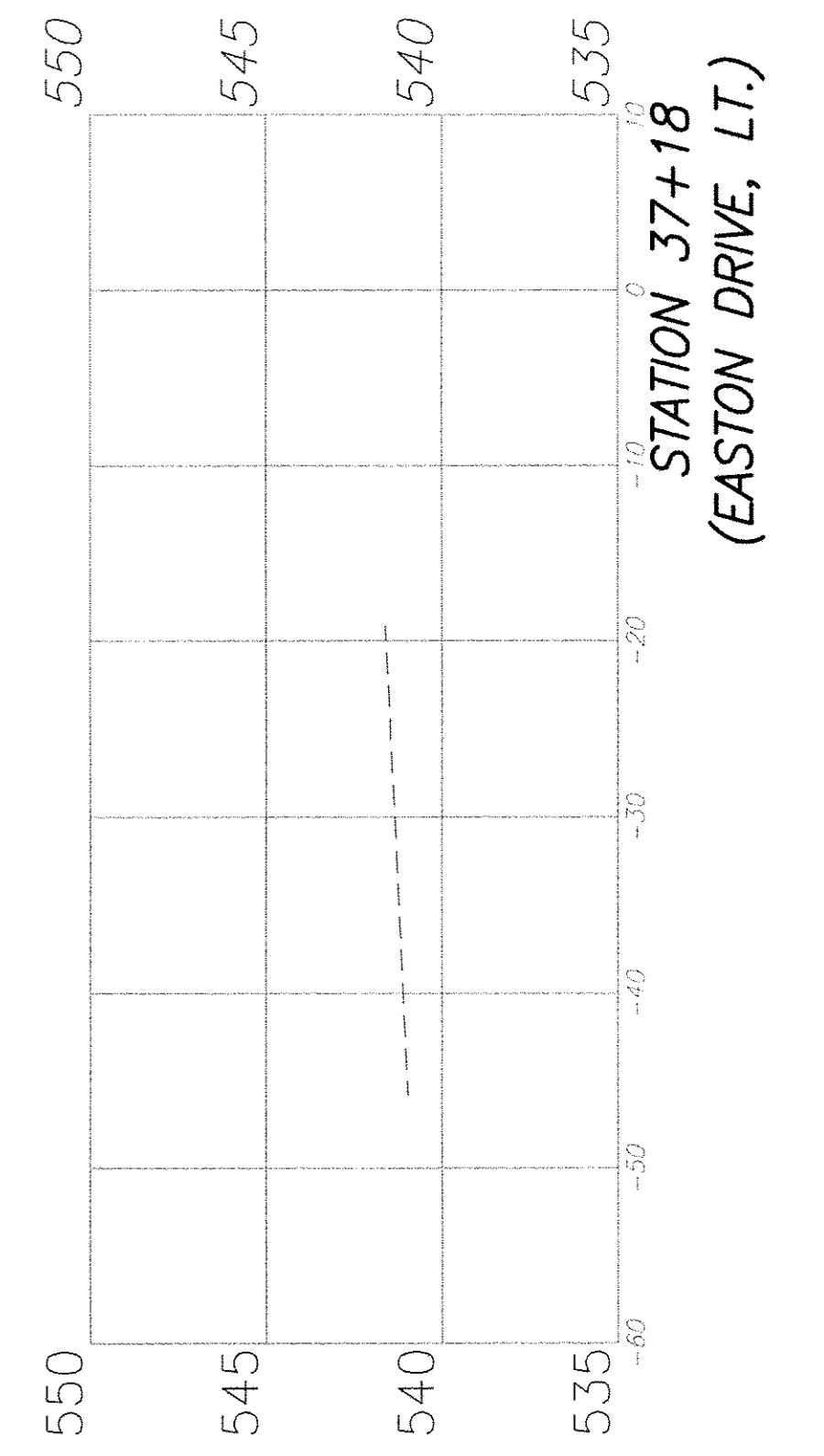
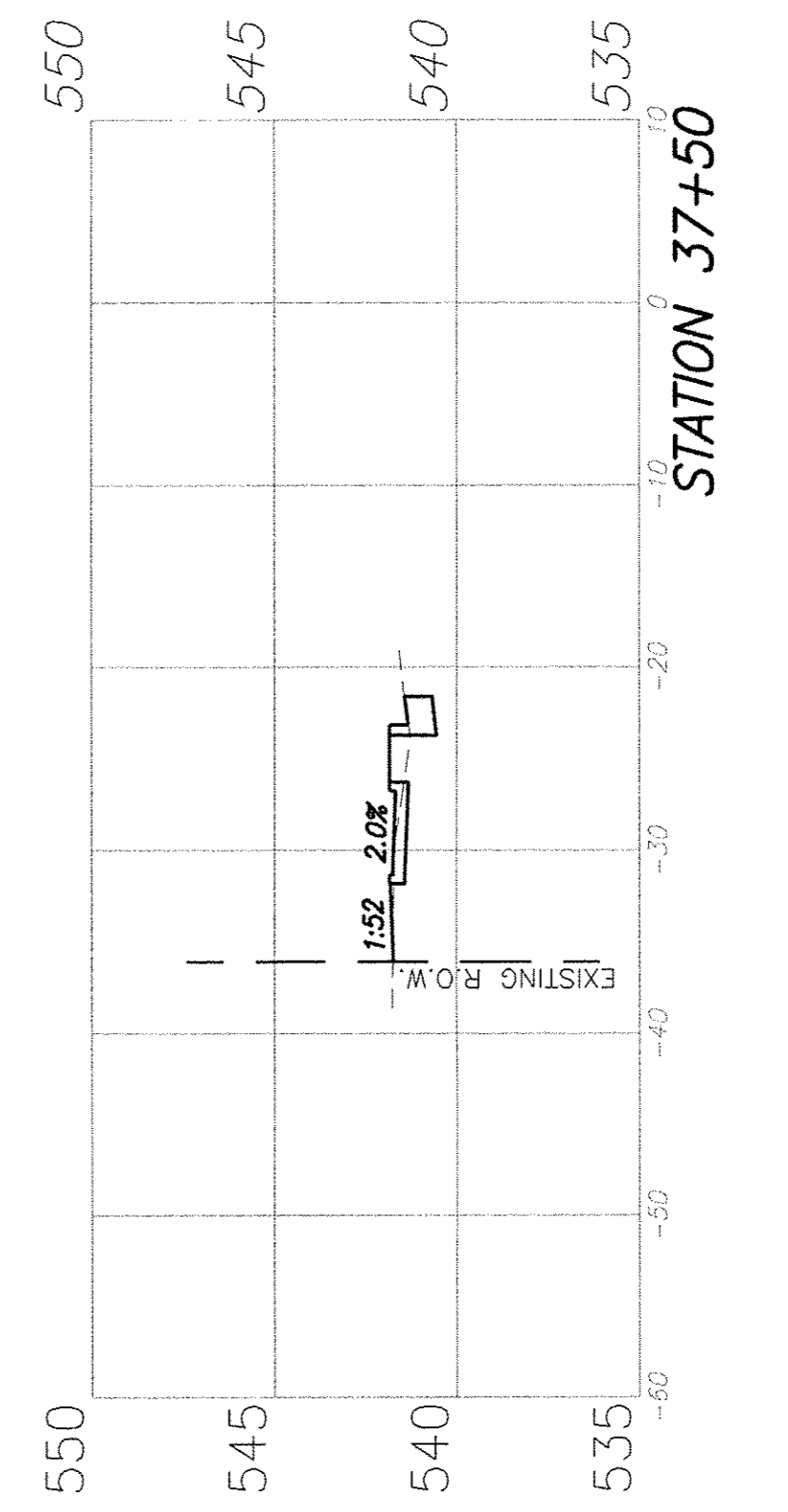
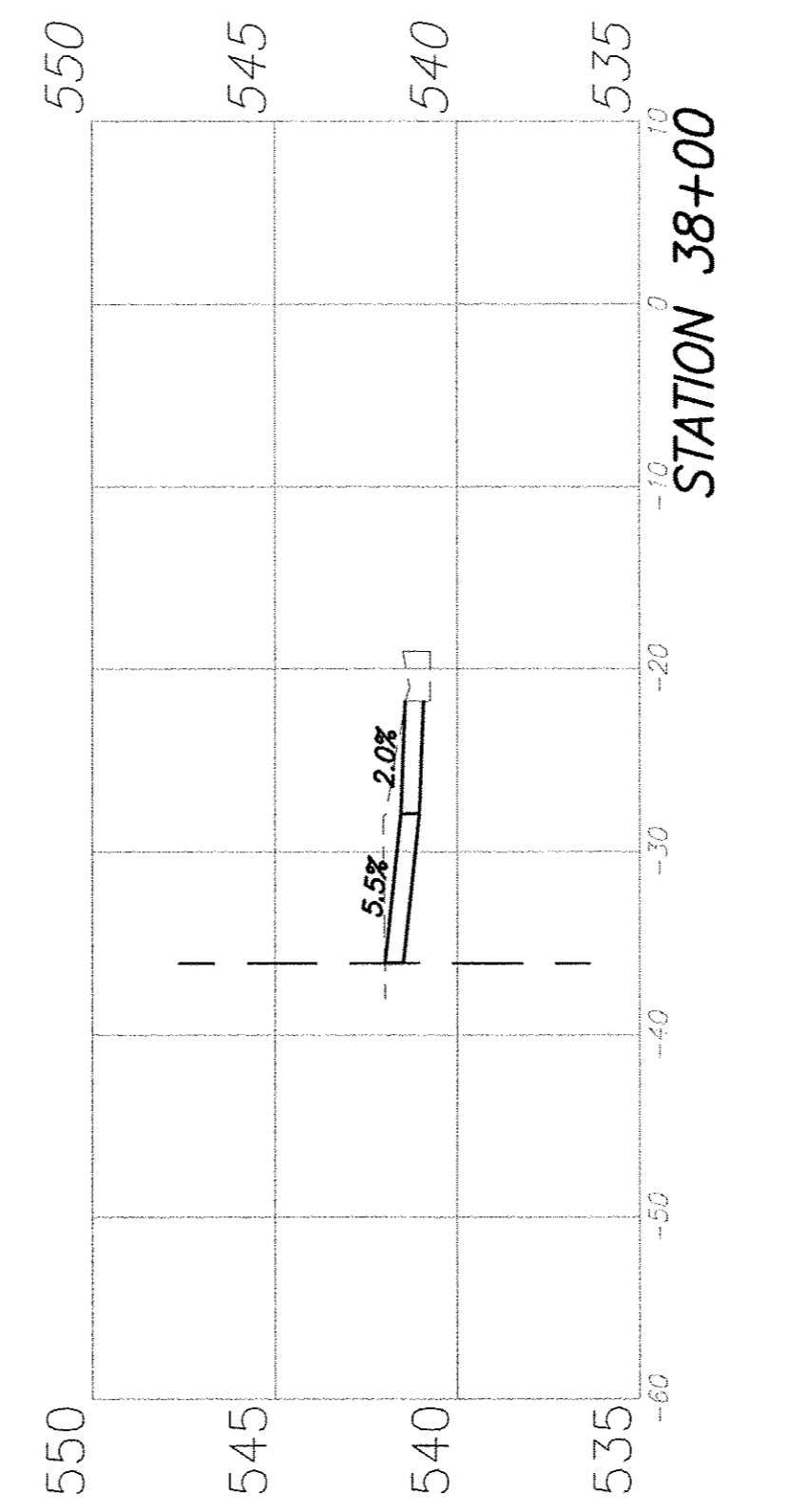
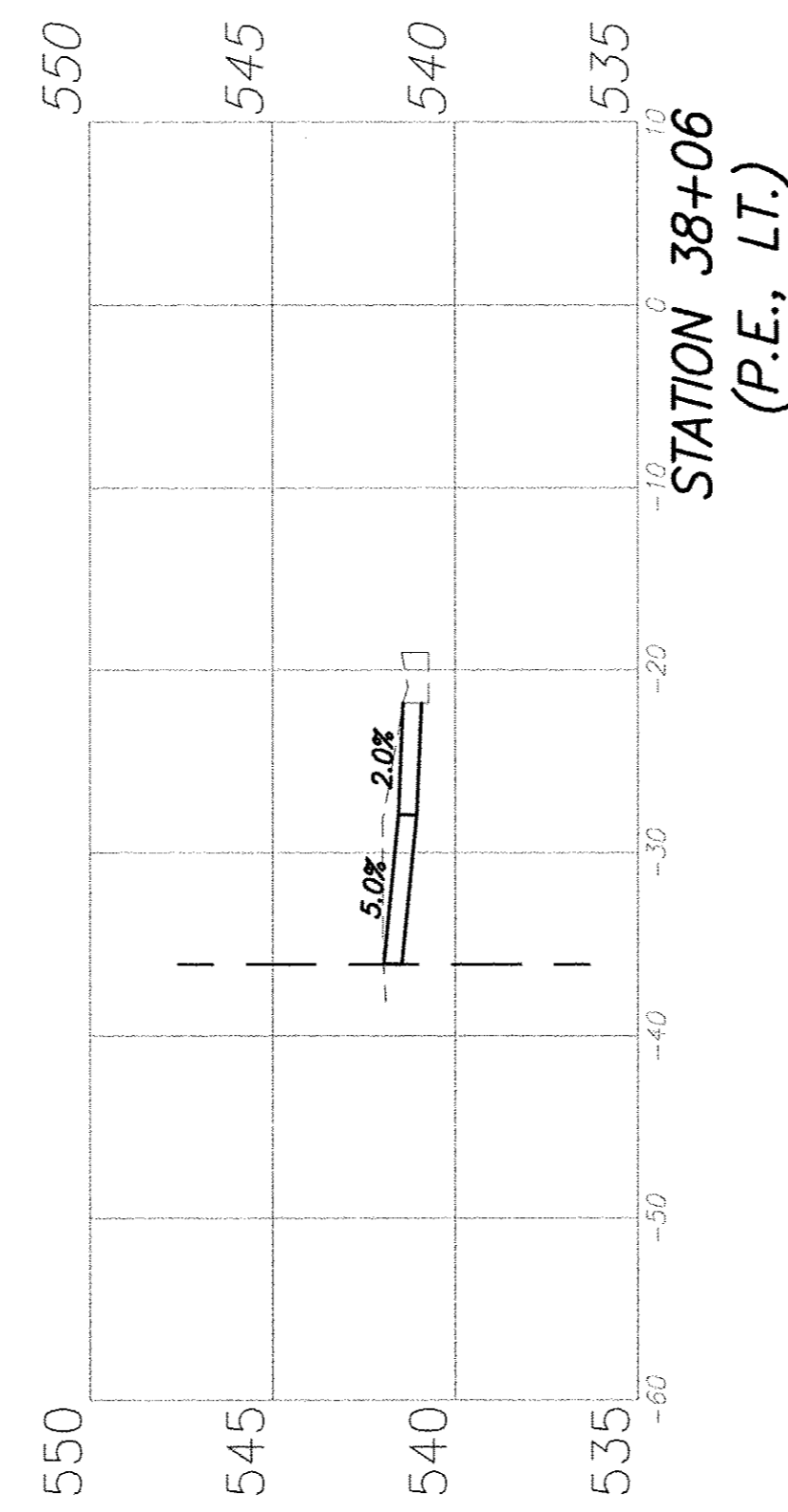
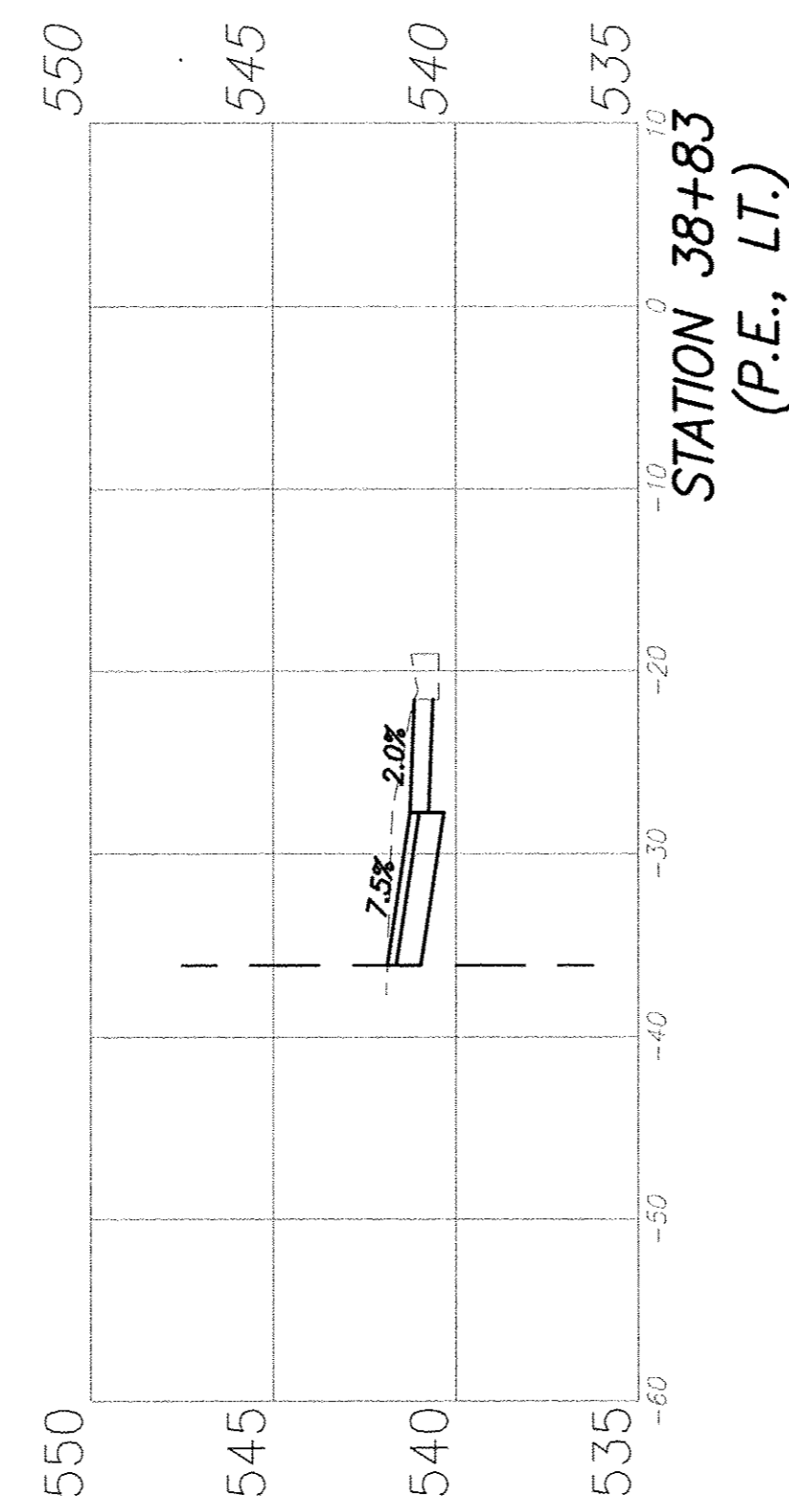
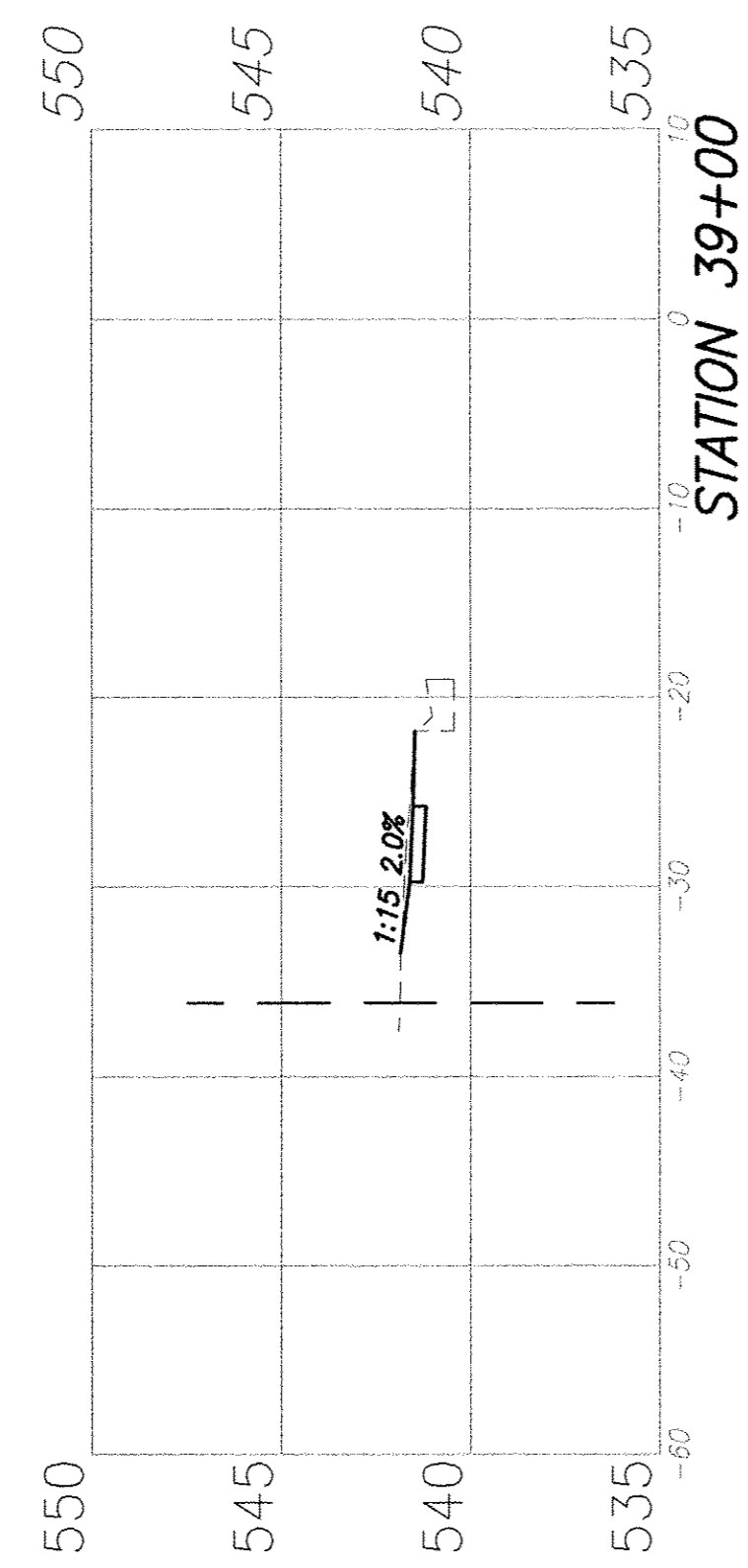
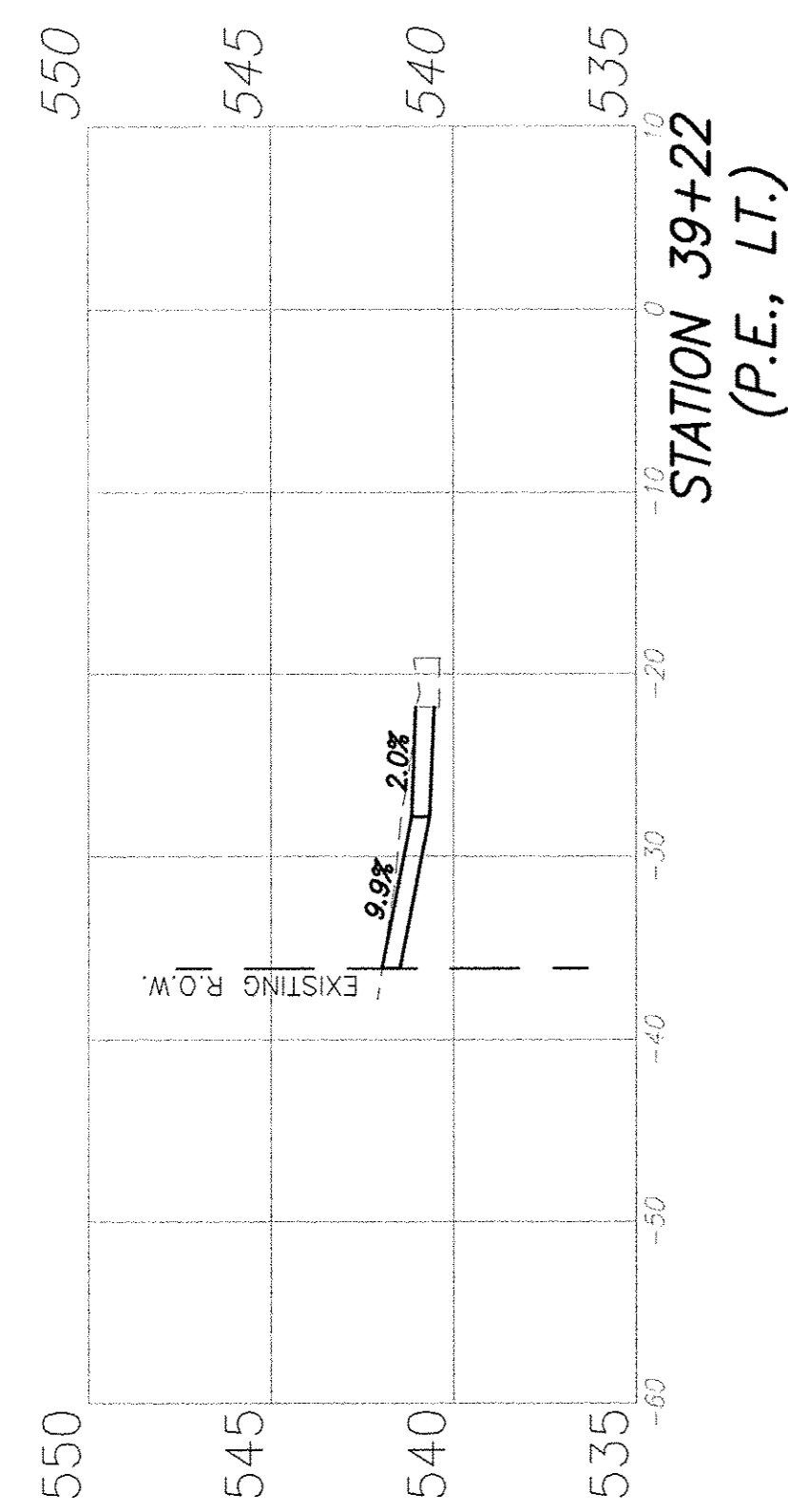
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	20
FEDERAL AID PROJECT		CONTRACT 97641		

NOTE: EARTH EXCAVATION ASSOCIATED WITH IMPROVEMENTS NORTH OF MEADOWLARK DRIVE ON HARTMAN LANE SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.



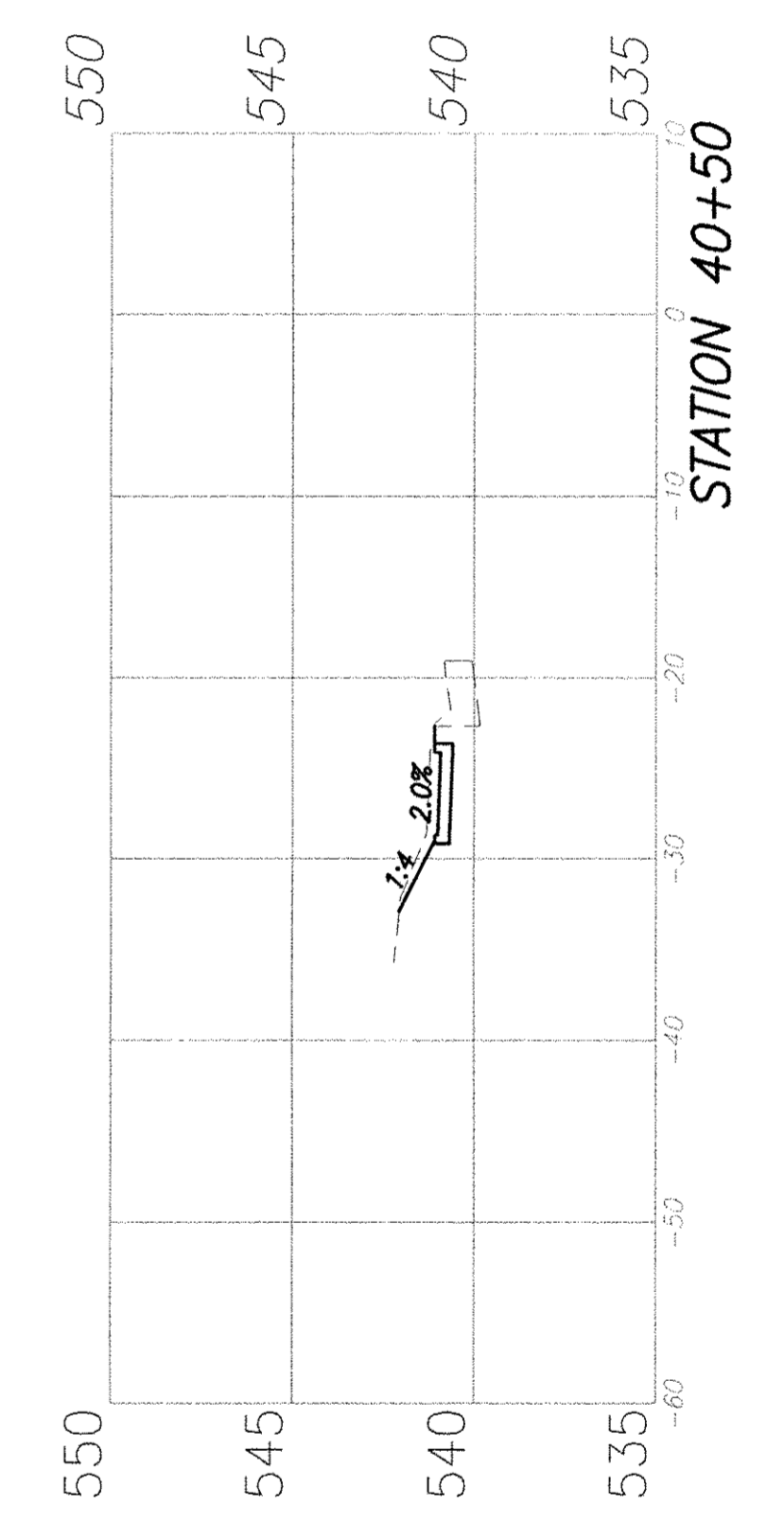
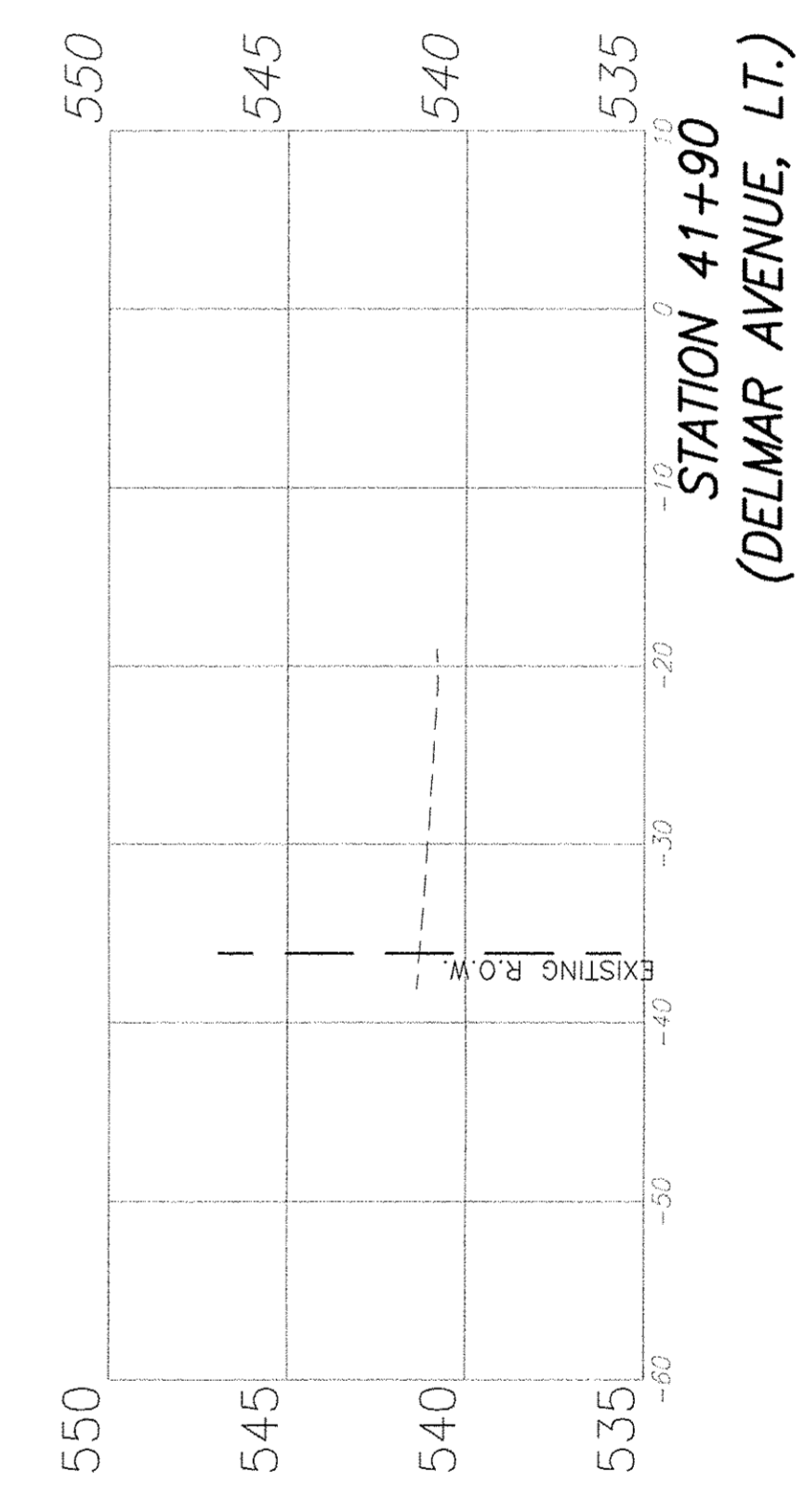
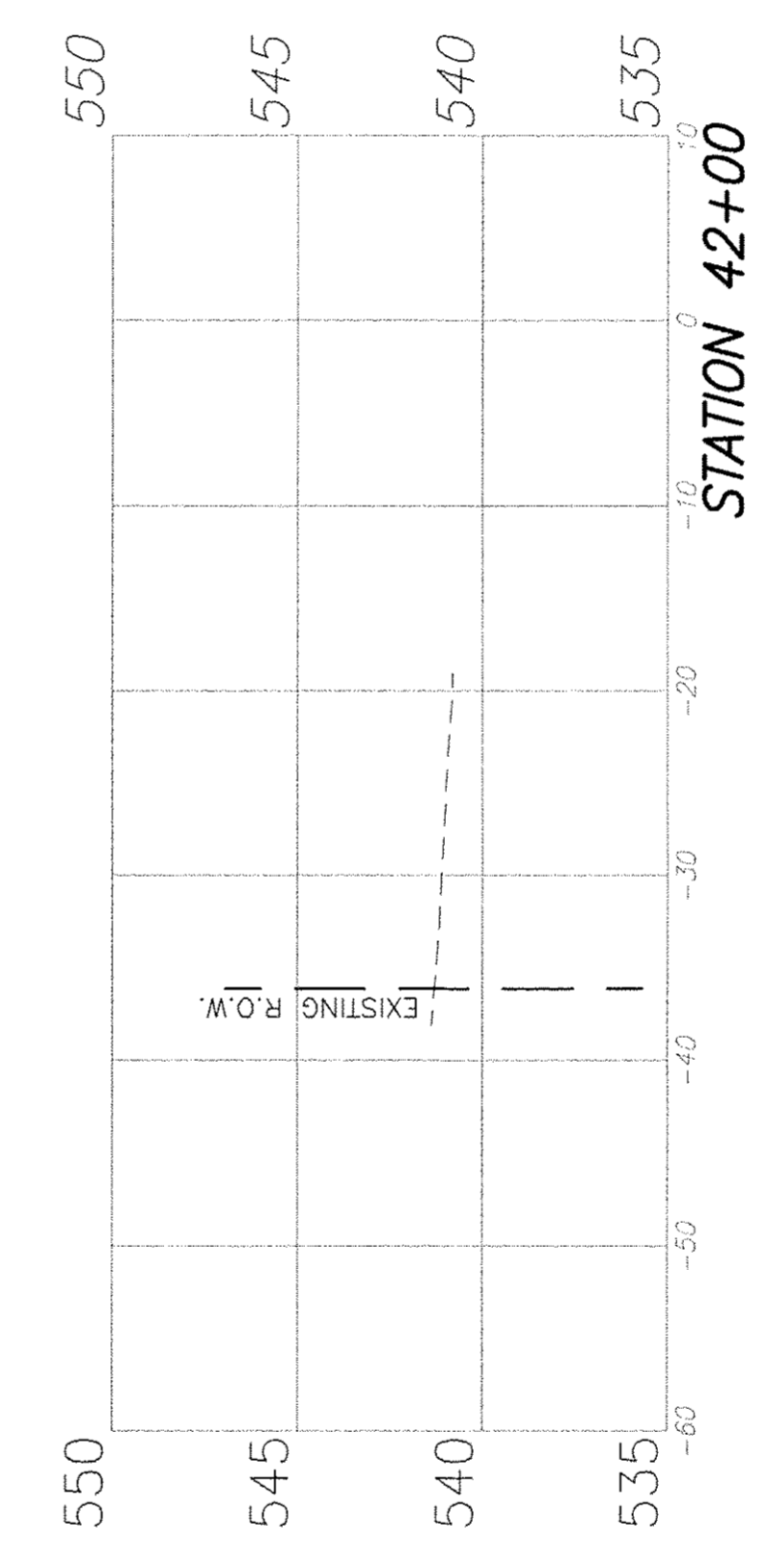
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	21
FEDERAL AID PROJECT		CONTRACT 97641		

NOTE: EARTH EXCAVATION ASSOCIATED WITH IMPROVEMENTS NORTH OF MEADOWLARK DRIVE ON HARTMAN LANE SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.

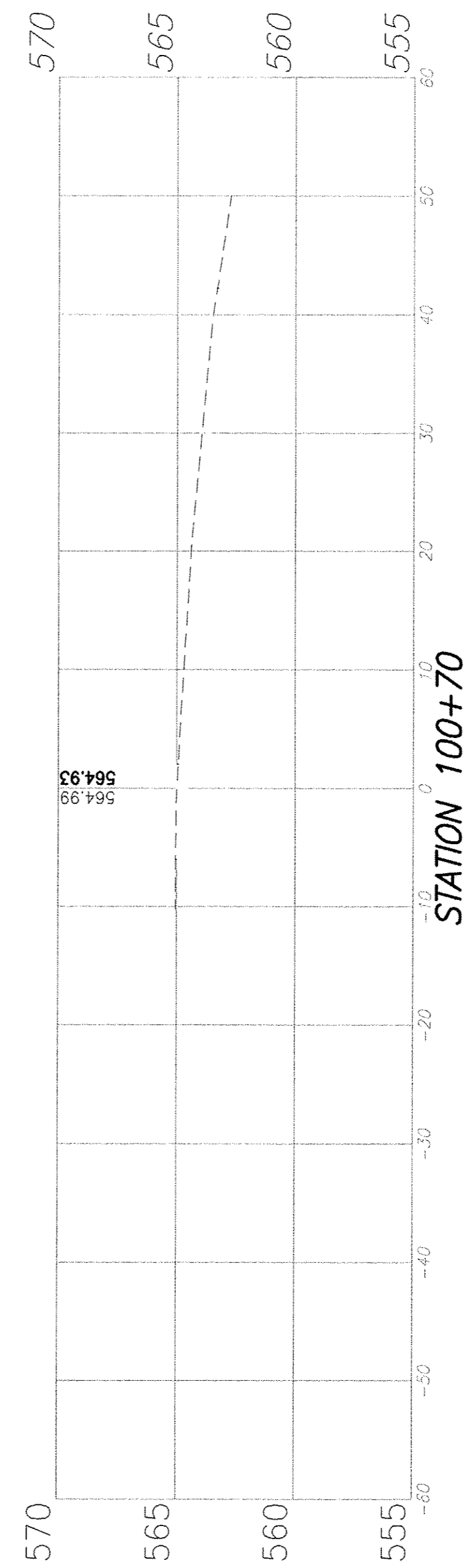
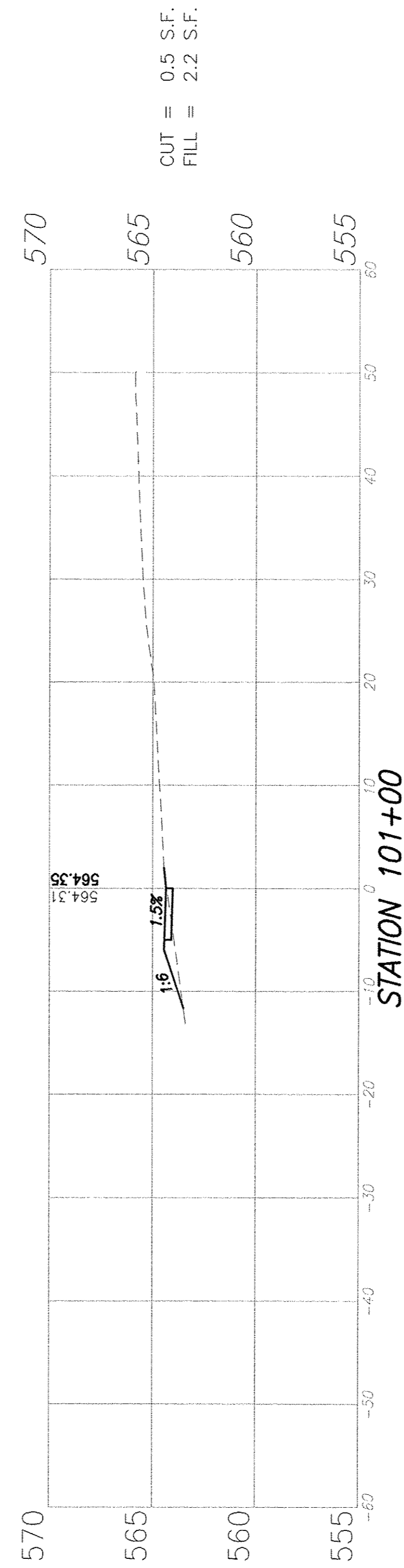
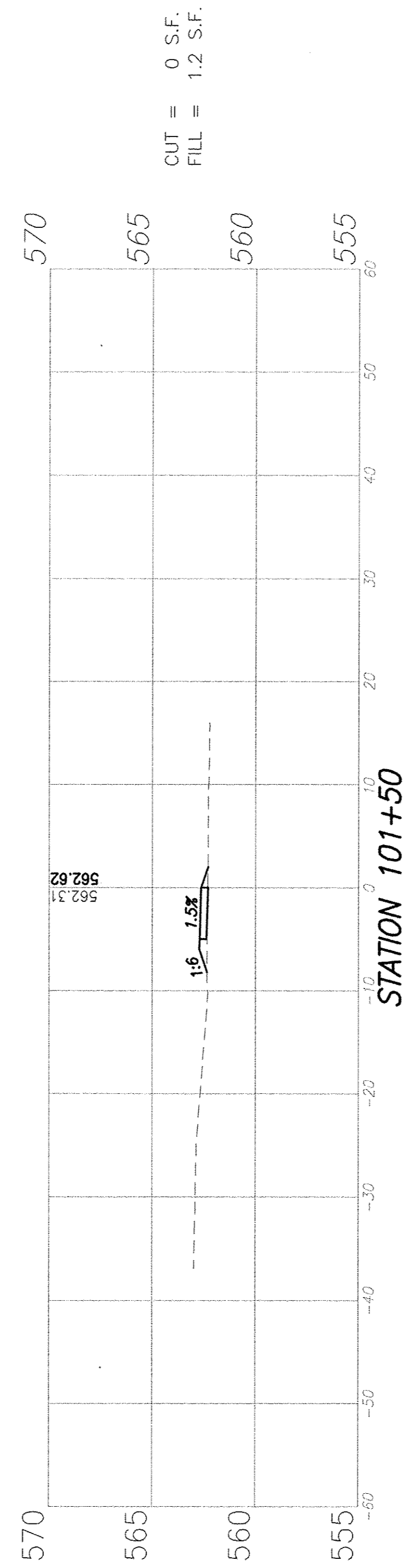
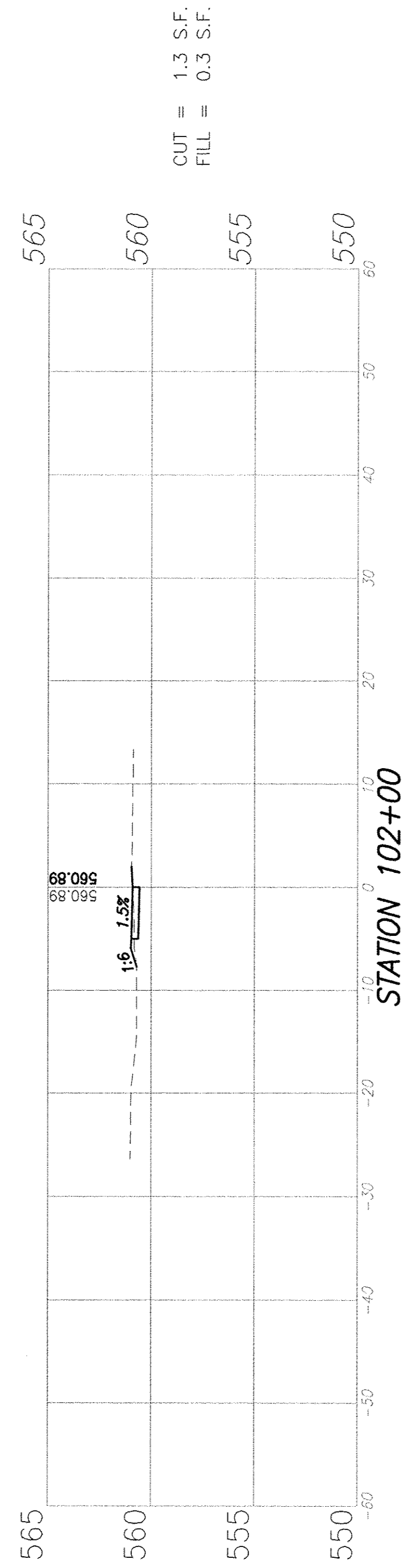
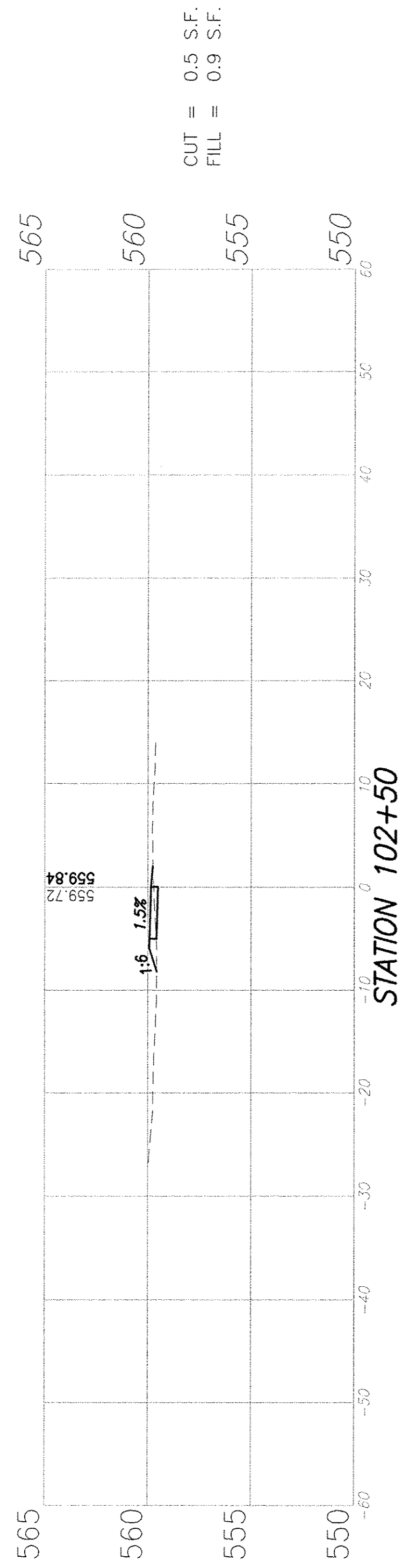


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	22
FEDERAL AID PROJECT		CONTRACT 97641		

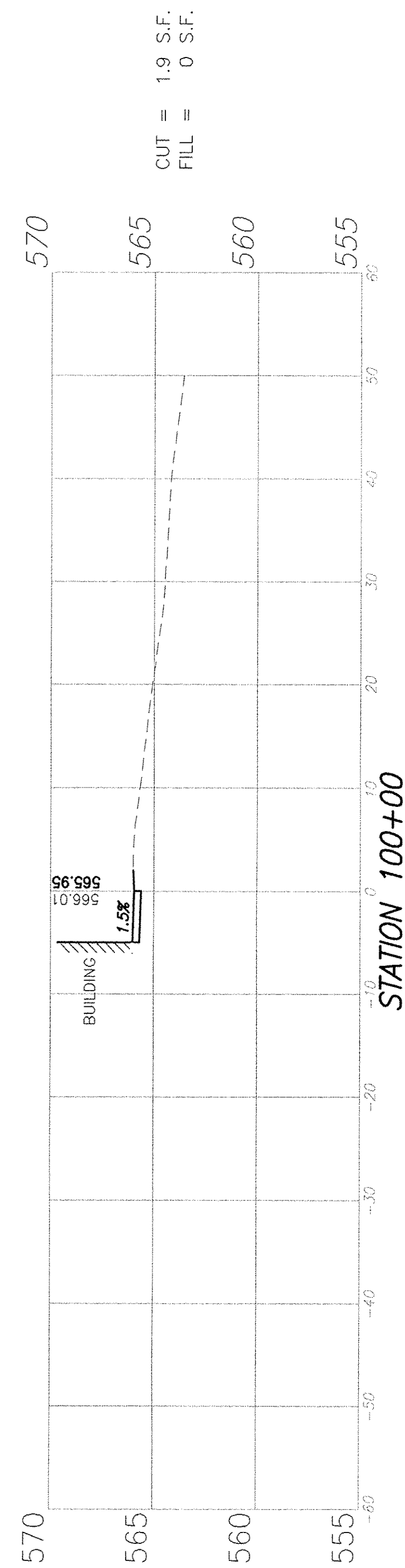
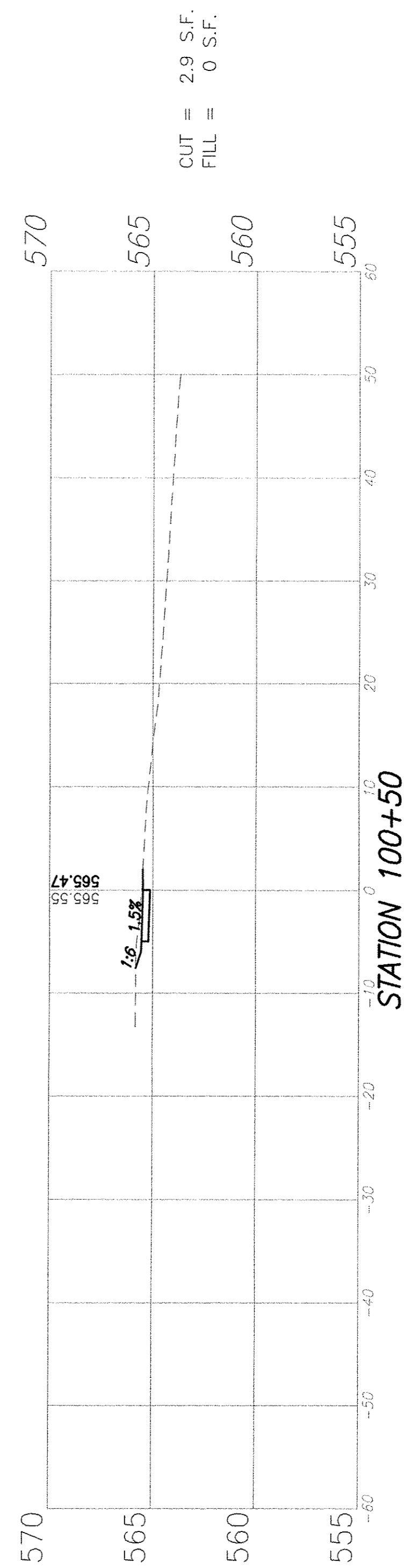
NOTE: PARTI EXCAVATION ASSOCIATED WITH IMPROVEMENTS NORTH OF MEADOWBARK DRIVE ON HARTMAN LANE SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.



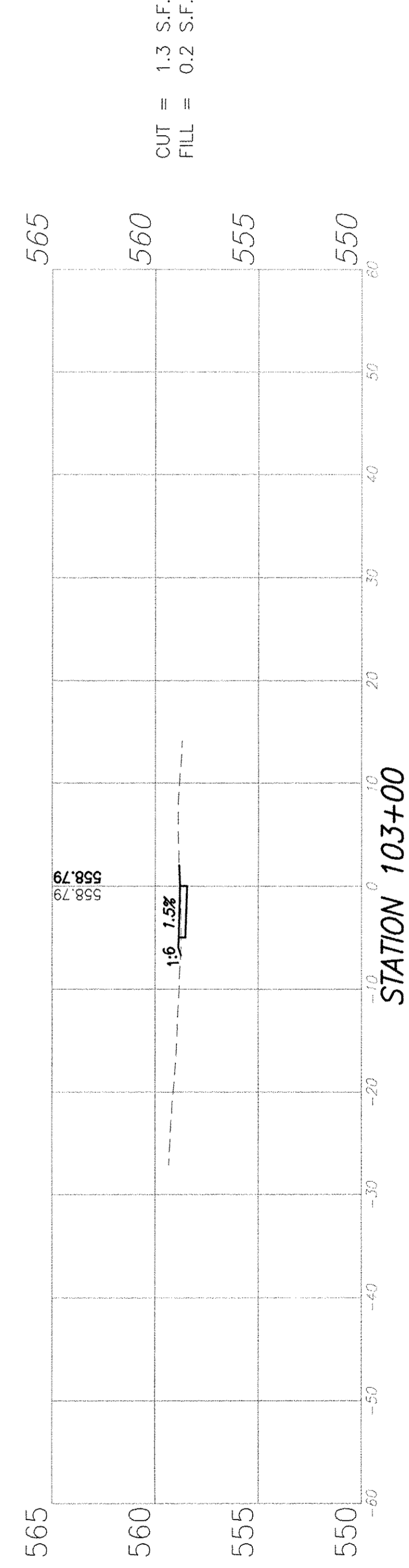
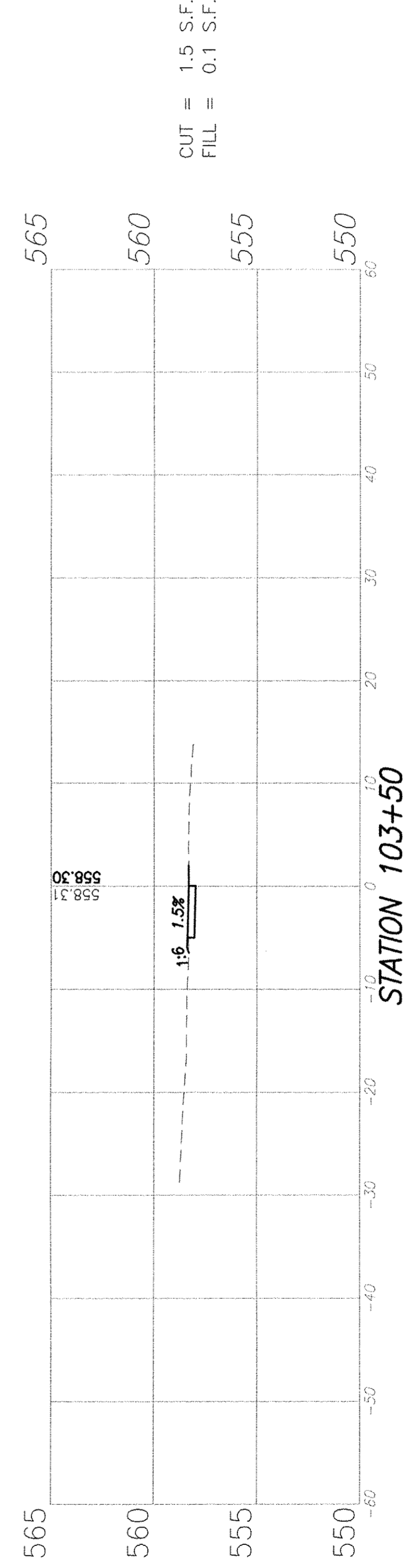
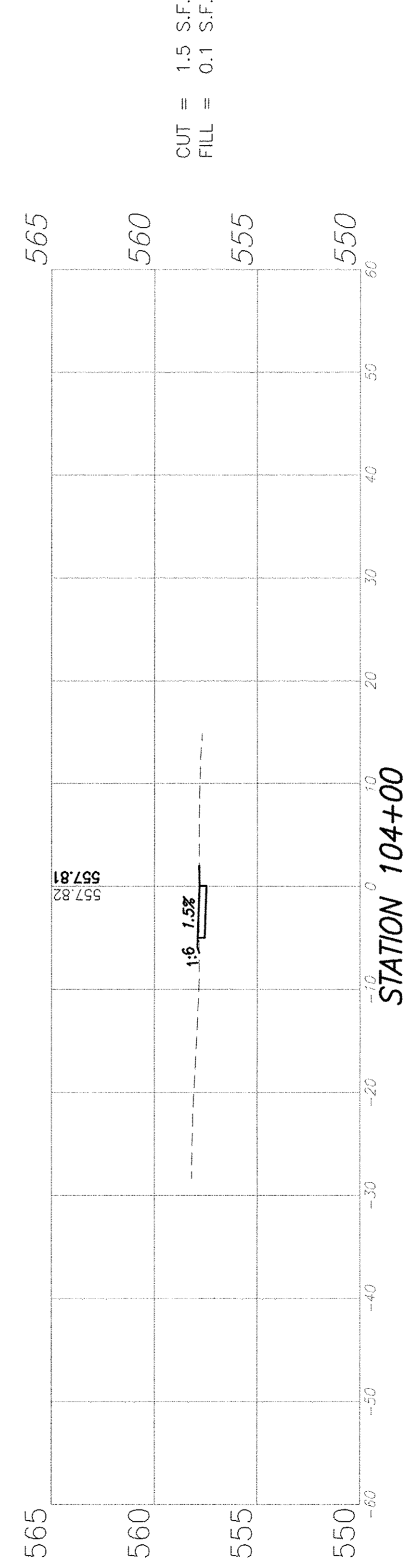
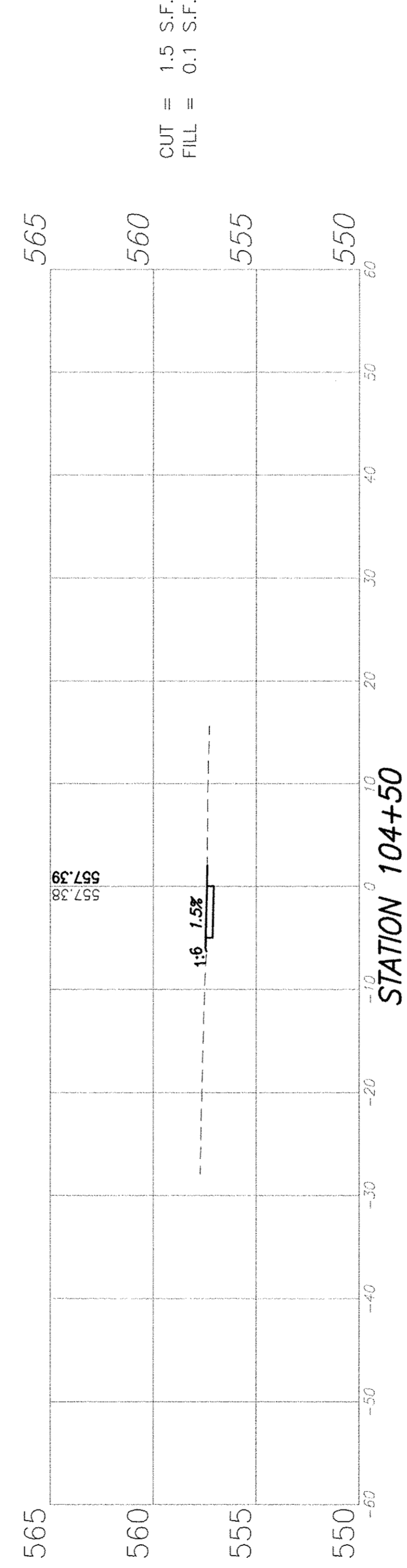
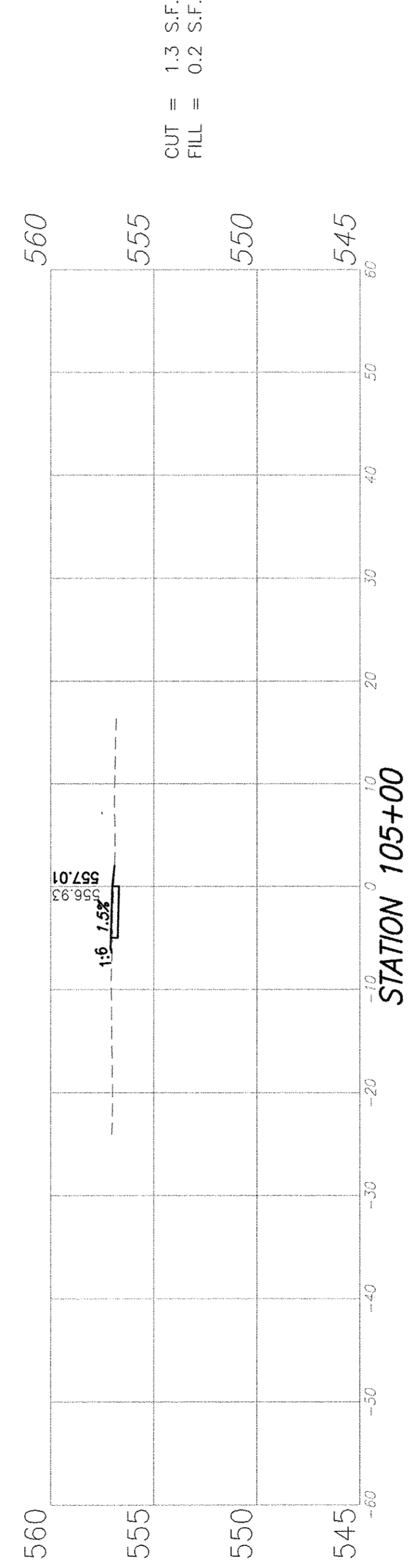
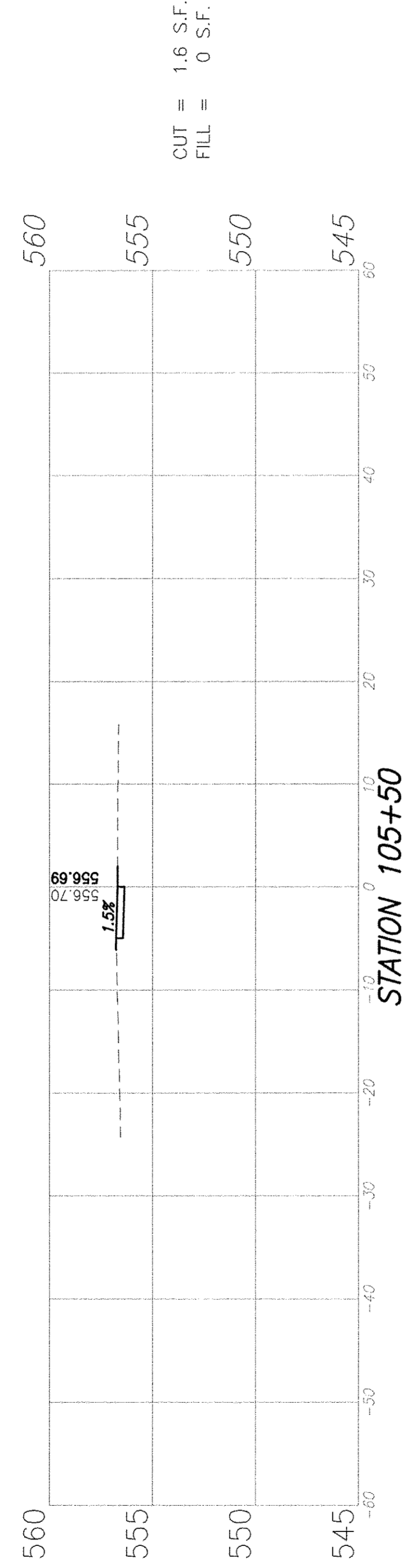
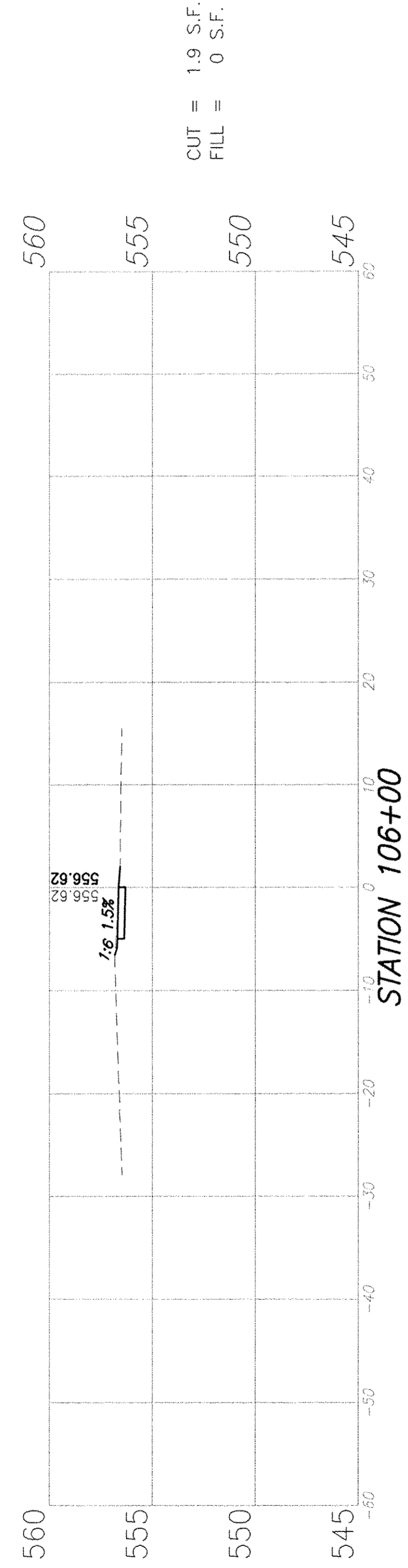
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	23
FEDERAL AID PROJECT		CONTRACT 97641		



(CENTER OF ASPHALT DRIVE)



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	24
FEDERAL AID PROJECT		CONTRACT 97641		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9169	12-00015-00-SW	ST. CLAIR	25	25
FEDERAL AID PROJECT		CONTRACT 97641		

