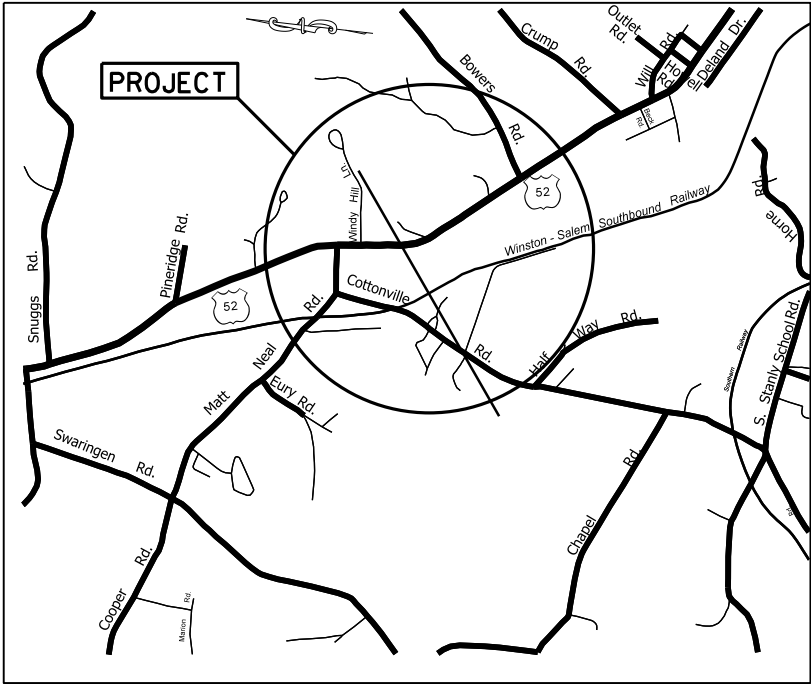


PROJECT: 44856.3.33 TIP:W-5710GB

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44856.3.33	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.33	HSIP-0052(058)	P.E.	
44856.2.33	HSIP-0052(058)	R.W.	
44856.3.33	HSIP-0052(058)	CONST.	

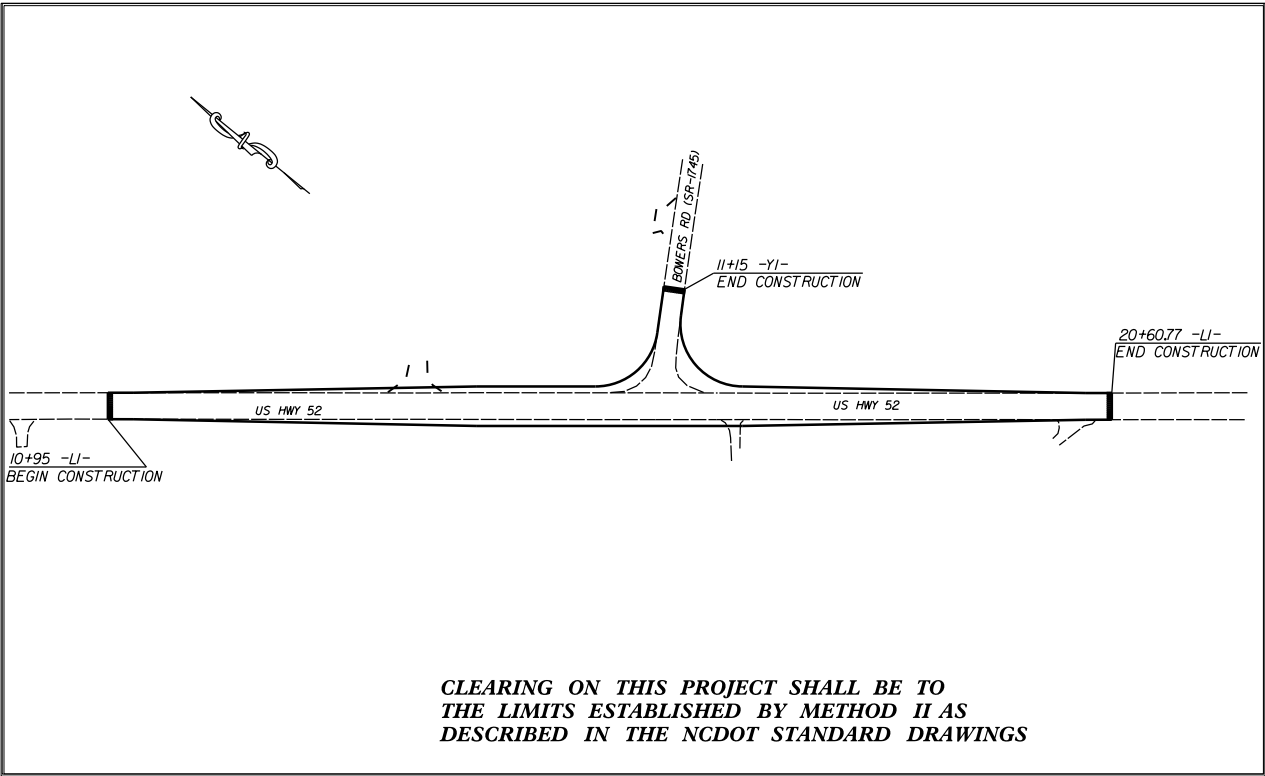
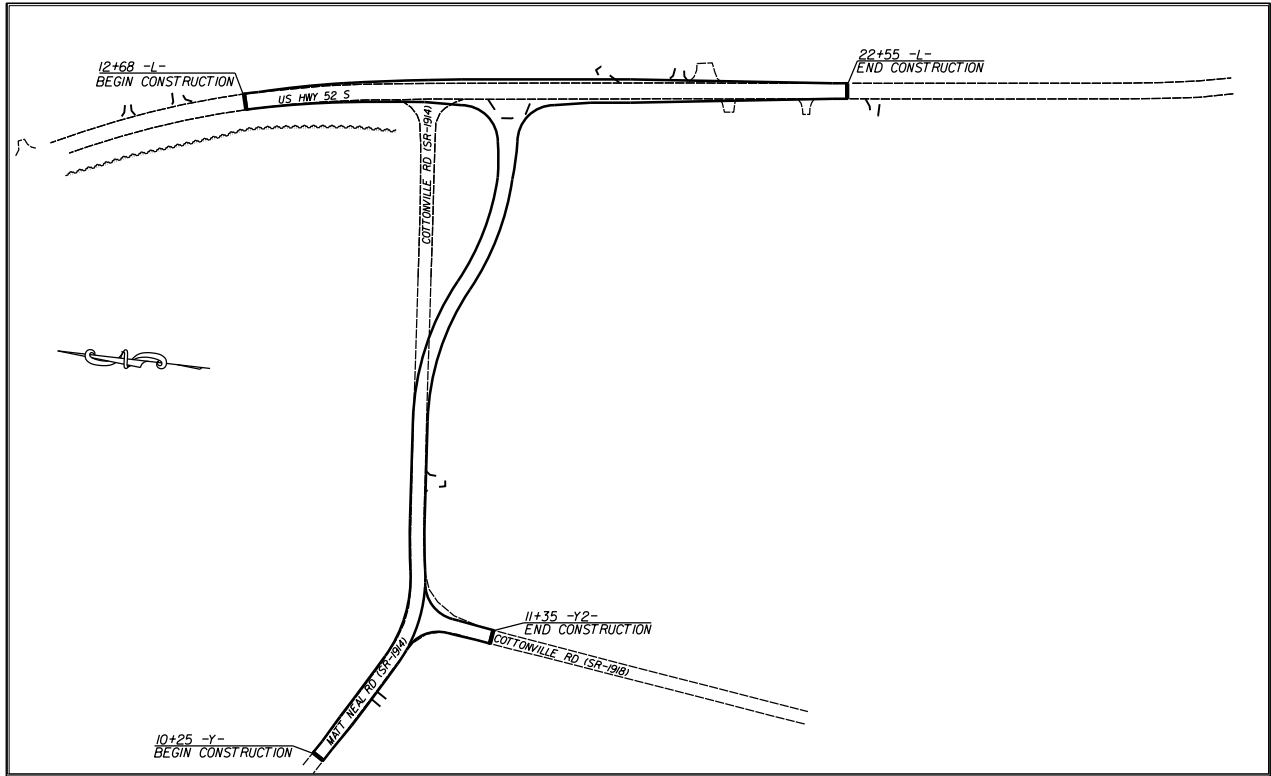


VICINITY MAP NOT TO SCALE

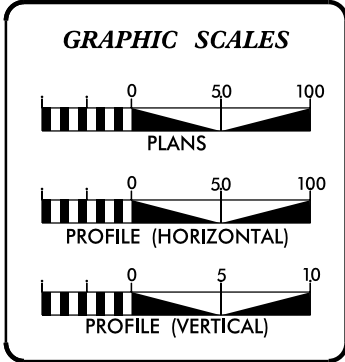
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
STANLY COUNTY

LOCATION: INTERSECTION OF US 52 AND COTTONVILLE RD. (SR-1918)
AND THE INTERSECTION OF US 52 AND BOWERS RD (SR-1745)

TYPE OF WORK: GRADING, PAVING, MILLING, DRAINAGE, PAVEMENT REMOVAL,
AND THERMOPLASTIC PAVEMENT MARKINGS



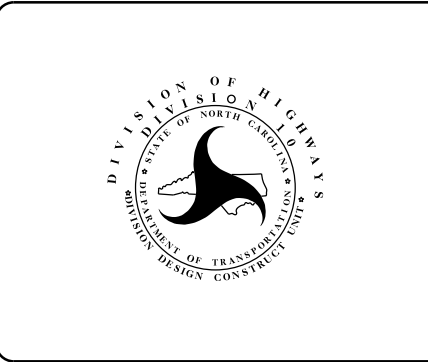
CLEARING ON THIS PROJECT SHALL BE TO
THE LIMITS ESTABLISHED BY METHOD II AS
DESCRIBED IN THE NCDOT STANDARD DRAWINGS



DESIGN DATA			
ADT	=		
ADT	=		
DHV	=	%	
D	=	%	
T	=	%	
V	=	MPH	

PROJECT LENGTH			
LENGTH OF ROADWAY PROJECT 44856.3.33	=	0.64	MILES
TOTAL LENGTH OF STATE PROJECT 44856.3.33	=	0.64	MILES

Prepared In the Office of: DIVISION OF HIGHWAYS DIVISION TEN DIVISION DESIGN / CONSTRUCT UNIT	
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	DONALD HARWARD PROJECT ENGINEER
LETTING DATE:	DONALD HARWARD PROJECT DESIGN ENGINEER



ROADWAY DESIGN ENGINEER
DocuSigned by:
SIGNATURE A92E75CC0FEFB43B...

SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
44856.3.33	1A-1
F.A. PROJECT NO. HSIP-005210581	

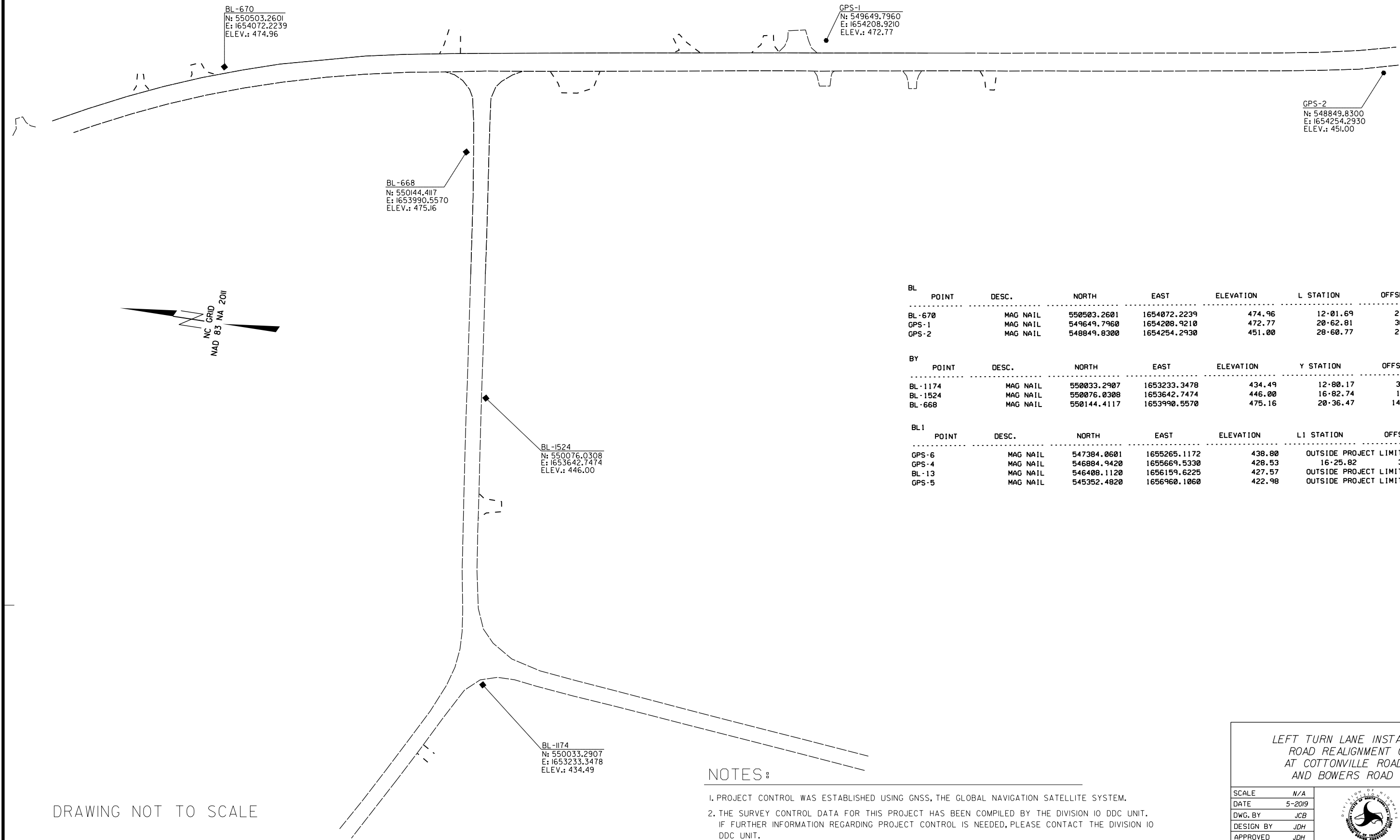
ROADWAY DESIGN
ENGINEER



Designed by:

Michael Epps

A02E75CC0FFB43B...



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
BL-670		MAG NAIL	550503.2601	1654072.2239	474.96	12+01.69	21.99 LT
GPS-1		MAG NAIL	549649.7960	1654208.9210	472.77	20+62.81	30.96 LT
GPS-2		MAG NAIL	548849.8300	1654254.2930	451.00	28+60.77	21.90 RT

BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
BL-1174		MAG NAIL	550033.2907	1653233.3478	434.49	12+00.17	36.74 RT
BL-1524		MAG NAIL	550076.0308	1653642.7474	446.00	16+82.74	12.48 RT
BL-668		MAG NAIL	550144.4117	1653990.5570	475.16	20+36.47	148.60 LT

BL1	POINT	DESC.	NORTH	EAST	ELEVATION	L1 STATION	OFFSET
GPS-6		MAG NAIL	547384.0601	1655265.1172	438.80	OUTSIDE PROJECT LIMITS	
GPS-4		MAG NAIL	546884.9420	1655669.5330	428.53	16+25.82	34.62 RT
BL-13		MAG NAIL	546408.1120	1656159.6225	427.57	OUTSIDE PROJECT LIMITS	
GPS-5		MAG NAIL	545352.4820	1656960.1060	422.98	OUTSIDE PROJECT LIMITS	

NOTES :

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT.
IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

DRAWING NOT TO SCALE

LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)		
SCALE	N/A	
DATE	5-2019	
DWG. BY	JCB	
DESIGN BY	JDH	
APPROVED	JDH	
REVISIONS		

SURVEY CONTROL SHEET

PROJECT NO.
44856.3.33

SHEET NO.
IA-2

F.A. PROJECT NO. HSIP-005210581

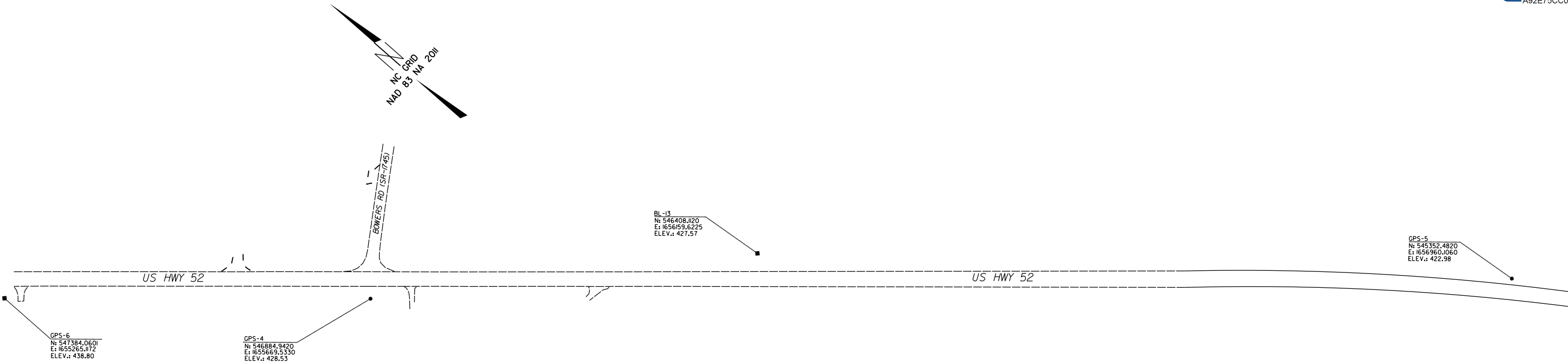
ROADWAY DESIGN
ENGINEER

SEAL
034357

ENGINEER

Documented by:


A92E75CC0FFB43B...



BL							
POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET	
BL-670	MAG NAIL	550503.2601	1654072.2239	474.96	12+01.69	21.99	LT
GPS-1	MAG NAIL	549649.7960	1654208.9210	472.77	20+62.81	30.96	LT
GPS-2	MAG NAIL	548849.8300	1654254.2930	451.00	28+60.77	21.90	RT
BY							
POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET	
BL-1174	MAG NAIL	550033.2907	1653233.3478	434.49	12+80.17	36.74	RT
BL-1524	MAG NAIL	550076.0308	1653642.7474	446.00	16+82.74	12.48	RT
BL-668	MAG NAIL	550144.4117	1653990.5570	475.16	20+36.47	148.60	LT
BL1							
POINT	DESC.	NORTH	EAST	ELEVATION	L1 STATION	OFFSET	
GPS-6	MAG NAIL	547384.0601	1655265.1172	438.80	OUTSIDE PROJECT LIMITS		
GPS-4	MAG NAIL	546884.9420	1655669.5330	428.53	16+25.82	34.62	RT
BL-13	MAG NAIL	546408.1120	1656159.6225	427.57	OUTSIDE PROJECT LIMITS		
GPS-5	MAG NAIL	545352.4820	1656960.1060	422.98	OUTSIDE PROJECT LIMITS		

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT.
IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

DRAWING NOT TO SCALE

LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

SCALE	N/A		REVISIONS	
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			

RIGHT OF WAY, EASEMENT AND
PROPOSED ALIGNMENT SHEET

PROJECT NO.	SHEET NO.
44856.3.33	1B
F.A. PROJECT NO. HSIP-005210581	

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	17+49.00	48.00	549952.4900	1654094.5130
L	18+50.00	30.00	549854.2188	1654123.9708

L			
TYPE	STATION	NORTH	EAST
PC	10+00.00	550684.7909	1653978.7976
PCC	14+30.91	550273.6396	1654103.0490
PT	15+69.18	550136.6241	1654121.5864
PC	27+34.98	548978.5105	1654255.2074
PT	28+82.74	548833.0183	1654280.5213

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	16+23.75	30.00	550057.7159	1653587.0527
Y	17+15.00	30.00	550055.7352	1653671.5949
Y	19+05.00	88.00	549941.6652	1653822.4137
Y	20+50.00	32.00	549963.5139	1653994.9120

Y			
TYPE	STATION	NORTH	EAST
PC	10+00.00	550204.4765	1652998.7199
PCC	12+24.13	550089.9550	1653191.3544
PRC	13+79.10	550063.5388	1653341.1035
PT	14+63.91	550074.0039	1653425.2357
PC	16+23.75	550087.6071	1653584.4996
PRC	18+59.86	550042.2559	1653813.0582
PT	21+08.43	549998.1489	1654054.0128
POT	21+91.43	550007.6621	1654136.4658

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L1	12+50.00	-30.02	547217.3920	1655482.7320
L1	13+00.00	-40.00	547184.8789	1655522.0074
L1	15+64.14	-40.00	546979.8687	1655688.5577
L1	17+05.77	-45.00	546873.0922	1655781.7450
L1	17+30.00	-45.00	546854.2863	1655797.0229
L1	17+30.00	-30.02	546844.8384	1655785.3933

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550063.5916	1653266.4526
POT	13+90.27	549677.0565	1653212.6217

PERMANENT UTILITY EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L	17+82.00	42.12	549920.3816	1654104.1378
L	17+76.00	43.19	549926.2195	1654102.3879
L	17+82.00	53.00	549919.1344	1654093.3284
L	17+76.00	53.00	549925.0949	1654092.6406
L	15+40.00	-30.00	550169.2852	1654147.8944
L	15+50.00	-30.00	550159.2747	1654149.1191
L	15+50.00	-48.00	550161.4351	1654166.9889
L	15+45.00	-48.00	550166.4661	1654166.3771

L1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	547392.5027	1655301.7976
POT	16+23.68	546908.4321	1655695.0565
POT	21+90.96	546468.1388	1656052.7508

PERMANENT UTILITY EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	17+01.00	30.00	550057.2319	1653658.6819
Y	17+04.00	37.00	550049.9866	1653660.7134
Y	17+07.00	30.00	550056.6432	1653664.2221
Y	17+09.00	35.00	550051.4640	1653665.4794

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	546908.4321	1655695.0565
POT	11+19.27	546969.6774	1655797.4041
POT	12+38.55	547030.9227	1655899.7518

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

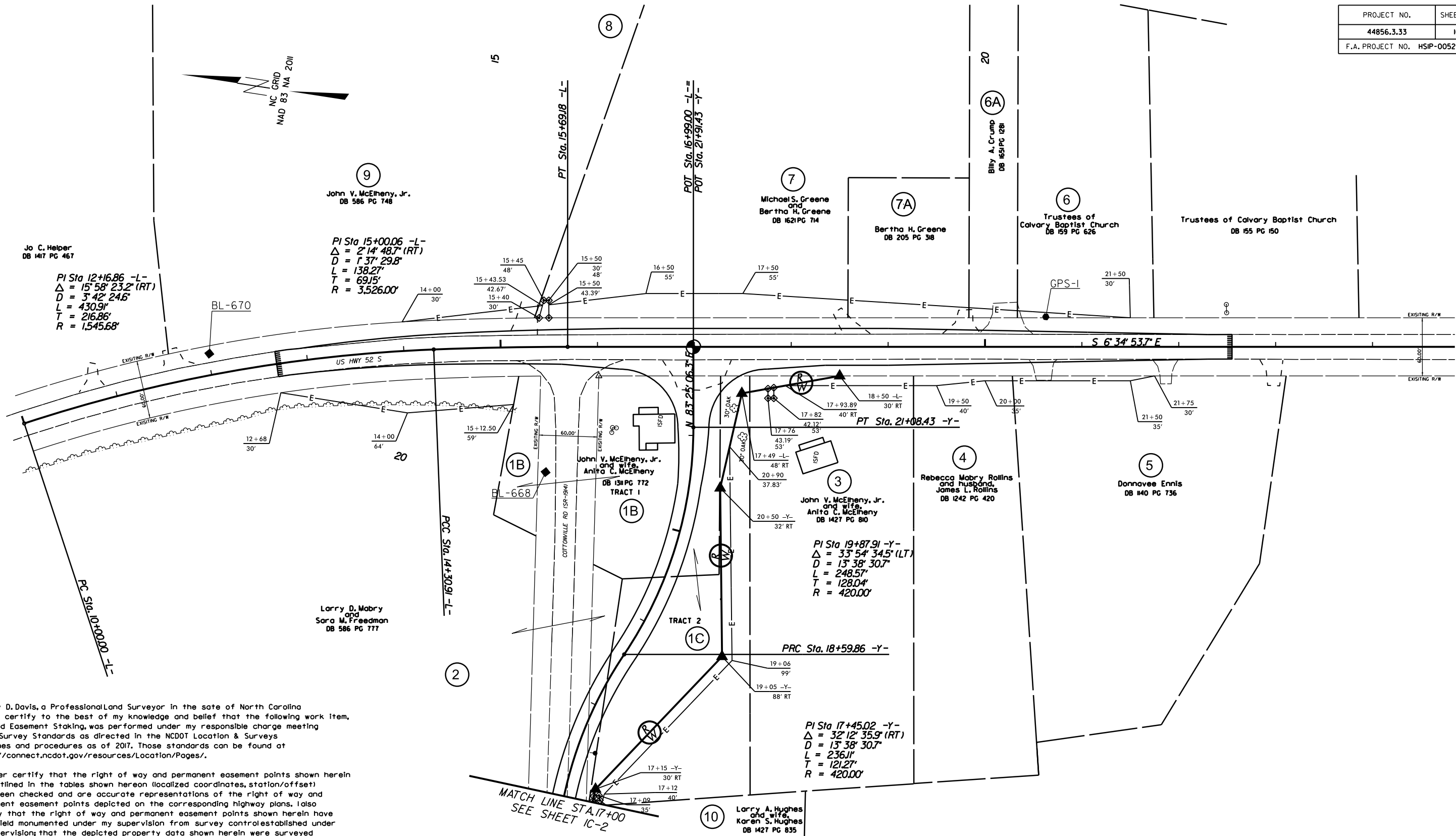
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this _____ day of _____ 2019

Barry D. Davis, _____ PLS* L-4384
Professional Land Surveyor



LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)			REVISIONS	
SCALE	N/A			
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			



I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

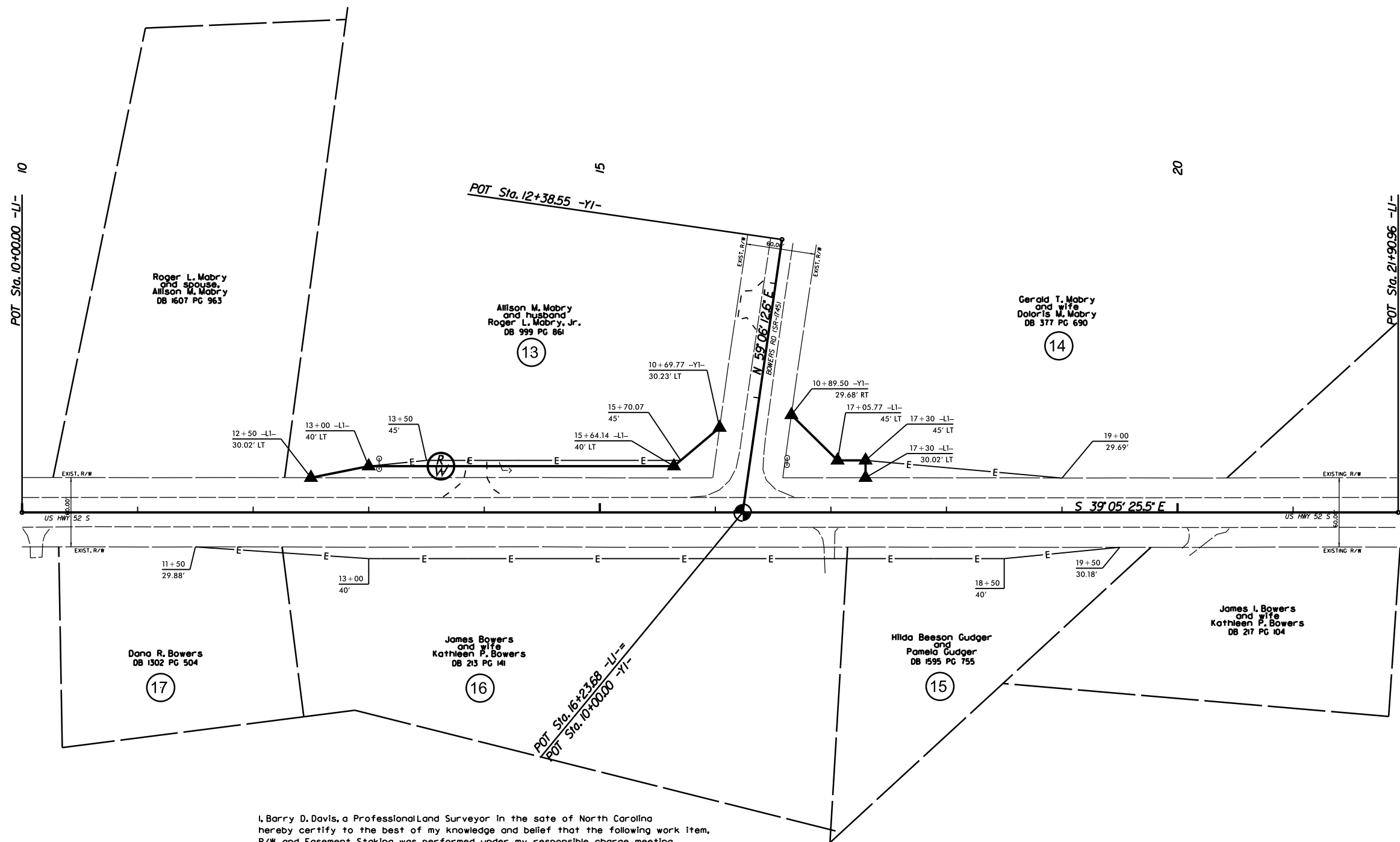
Witness my signature, registration number and seal this _____ day of _____ 2019

Barry D. Davis, _____ PLS# L-4384
Professional Land Surveyor



LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)			REVISIONS	
SCALE	1"=50'			
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			

PROJECT NO.	SHEET NO.
44856.3.33	IC-3
F.A. PROJECT NO. HSIP-005210581	



I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

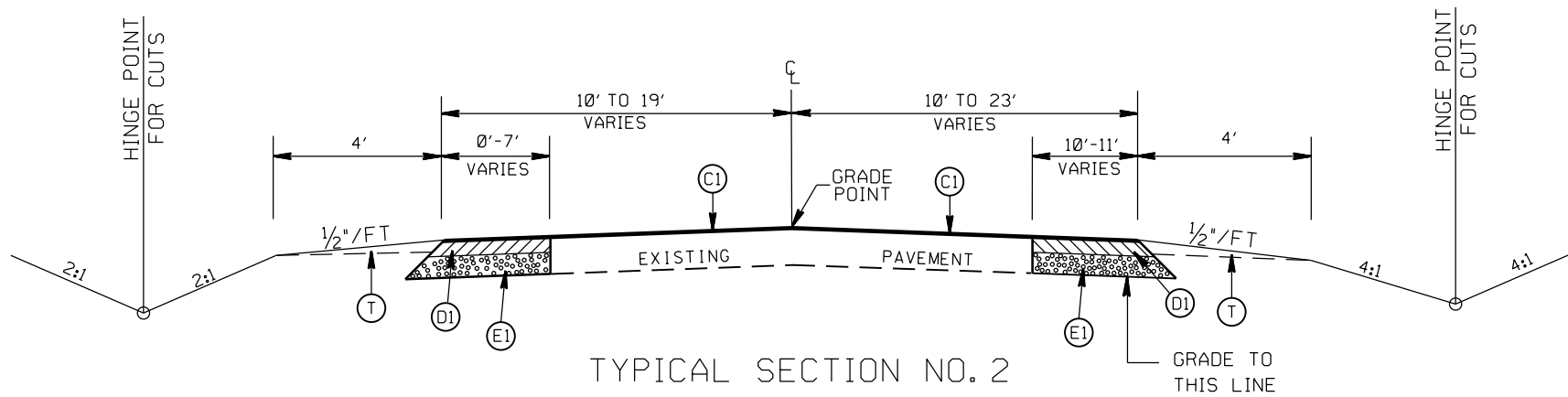
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this _____ day of _____ 2019

Barry D. Davis, _____ PLS# L-4384
Professional Land Surveyor



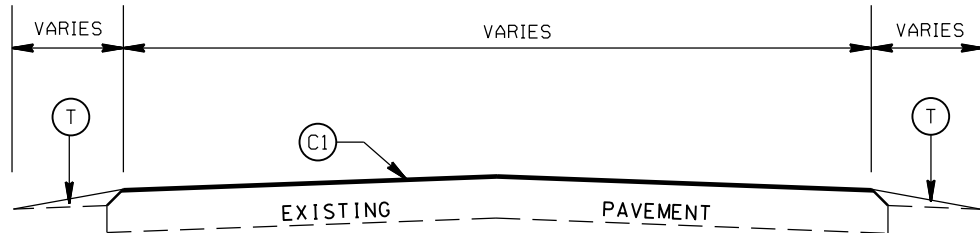
LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)			REVISIONS	
SCALE	1"=50'			
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			



TYPICAL SECTION NO. 2
STA. 12+93.00 TO 19+00.00 -L-
STA. 21+00.00 TO 22+30.00 -L-
STA. 10+50.00 TO 12+10.00 -Y-
STA. 17+00.00 TO 20+35.77 -LI-

PAVEMENT SCHEDULE

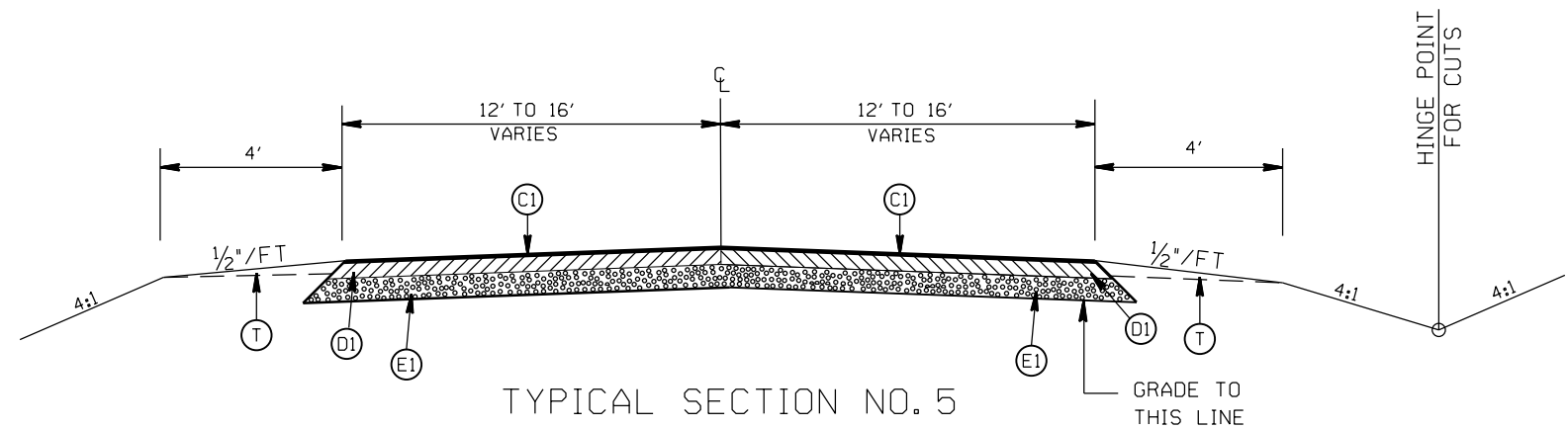
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5½" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL



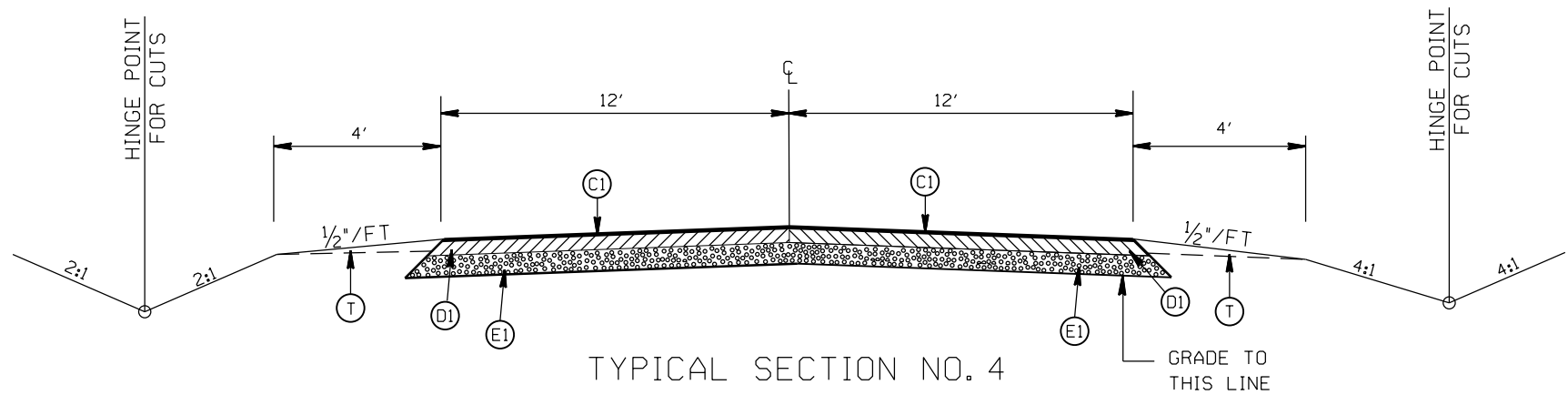
TYPICAL SECTION NO. 1
STA. 12+68.00 TO 12+93.00 -L-
STA. 22+30.00 TO 22+55.00 -L-
STA. 10+25.00 TO 10+50.00 -Y-
STA. 11+10.00 TO 11+35.00 -Y2-
STA. 10+95.00 TO 11+20.00 -LI-
STA. 20+35.77 TO 20+60.77 -LI-
STA. 10+00.00 TO 11+15.00 -YI-

LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

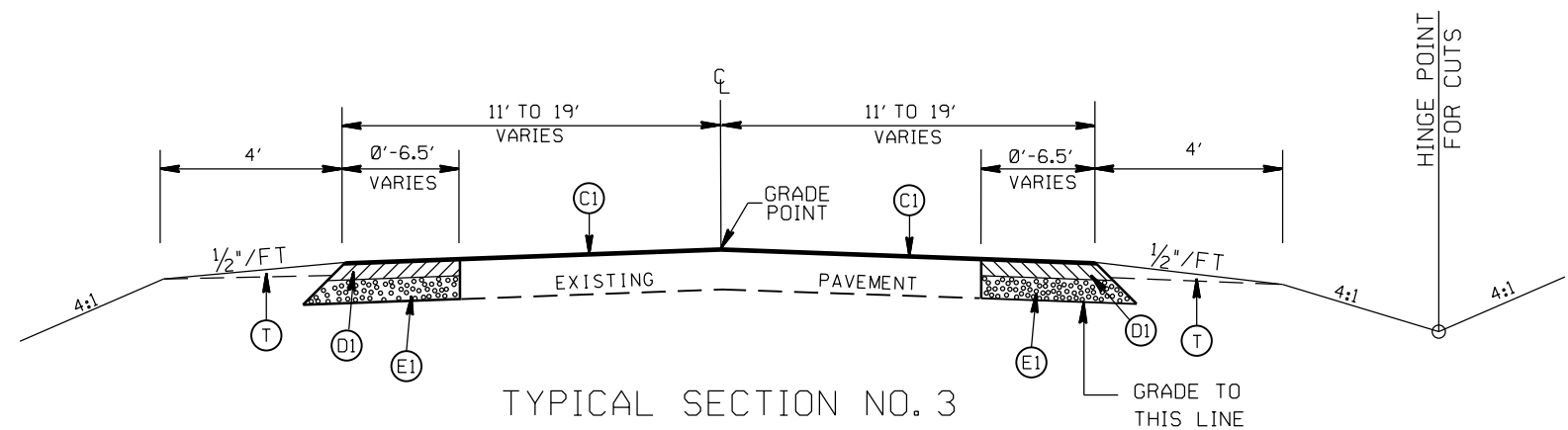
SCALE	N/A		REVISIONS	
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			



TYPICAL SECTION NO. 5
STA. 12+50.00 TO 14+25.00 -Y-
STA. 15+60.00 TO 21+91.43 -Y-



TYPICAL SECTION NO. 4
STA. 12+10.00 TO 12+50.00 -Y-

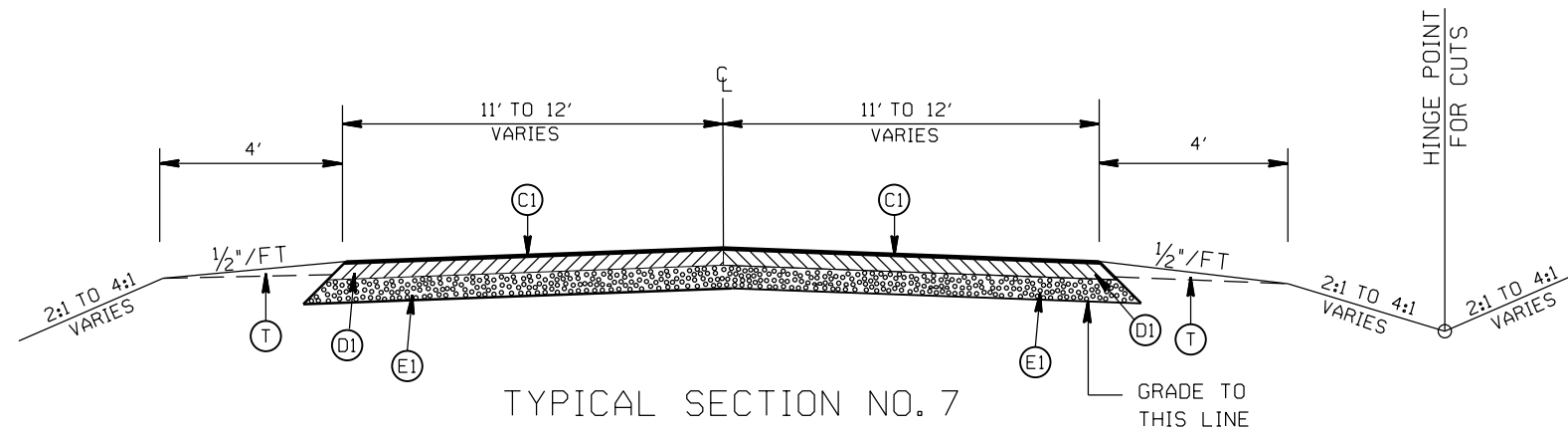


TYPICAL SECTION NO. 3
STA. 19+00.00 TO 21+00.00 -L-
STA. 14+25.00 TO 15+60.00 -Y-
STA. 11+20.00 TO 17+00.00 -LI-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5 1/2" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL

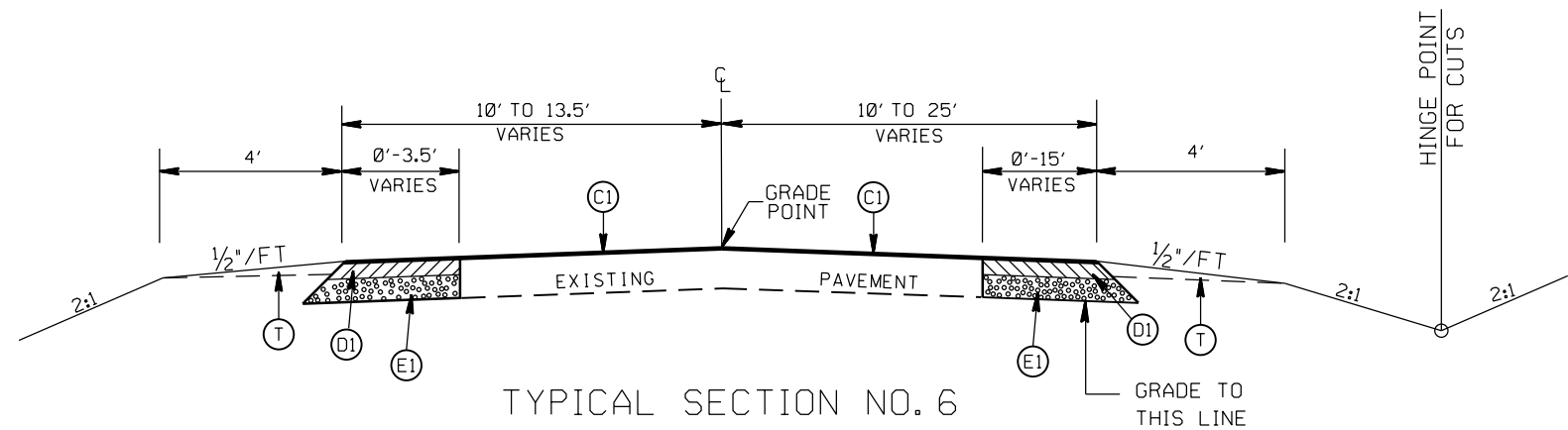
LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)		
SCALE	N/A	
DATE	5-2019	
DWG. BY	JCB	
DESIGN BY	JDH	
APPROVED	JDH	
REVISIONS		



TYPICAL SECTION NO. 7
STA. 10+00.00 TO 11+10.00 -Y2-

PAVEMENT SCHEDULE

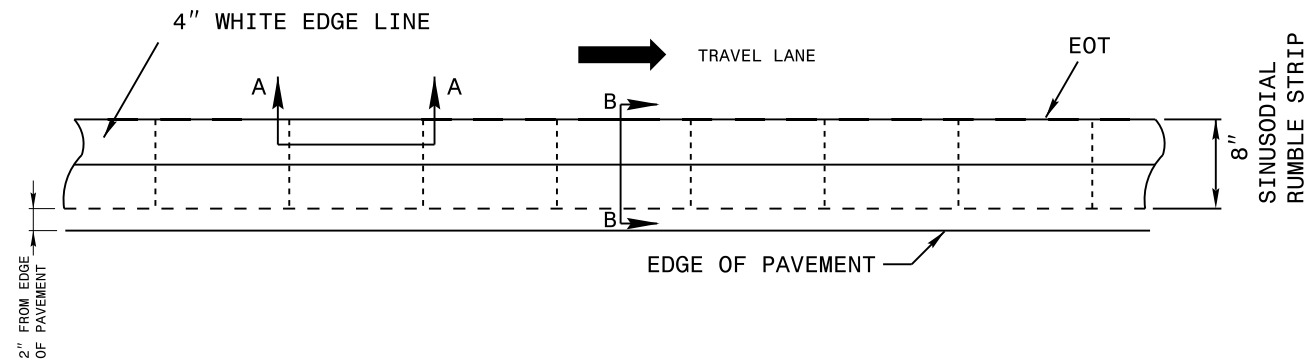
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5½" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL



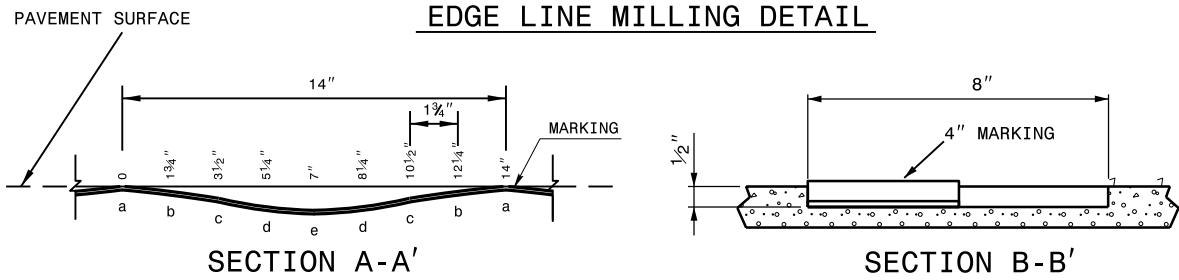
TYPICAL SECTION NO. 6
STA. 10+50.00 TO 10+90.00 -Y1-

LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)		
SCALE	N/A	REVISIONS
DATE	5-2019	
DWG. BY	JCB	
DESIGN BY	JDH	
APPROVED	JDH	

EDGE LINE TREATMENT

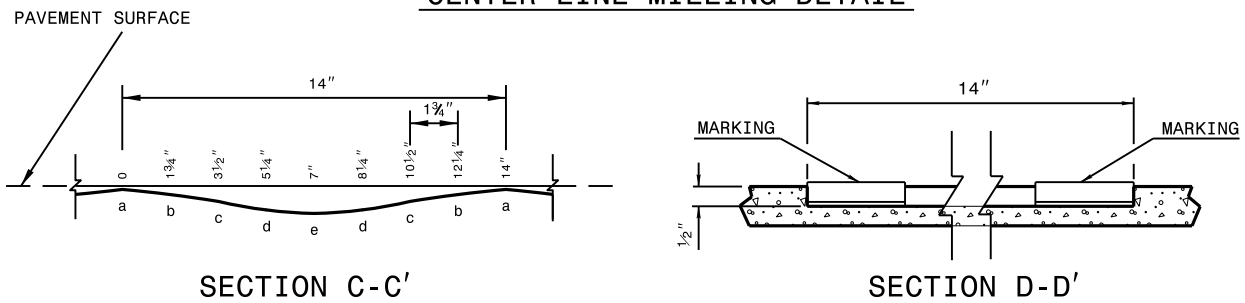


EDGE LINE MILLING DETAIL

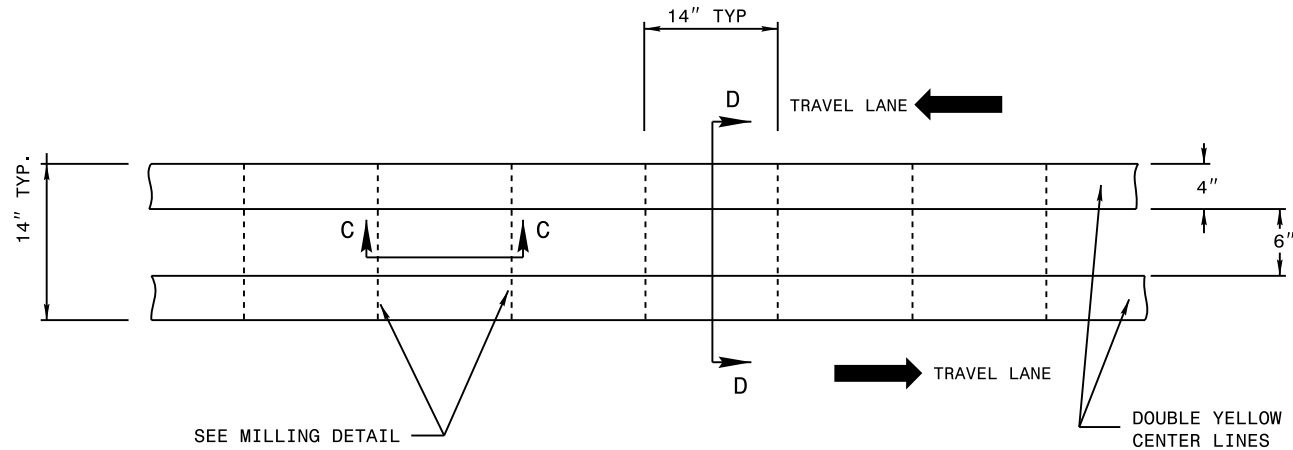


LOCATION	DEPTH	
	MIL	INCHES
a	62.5	1 1/16"
b	156	5/32"
c	281	9/32"
d	438	7/16"
e	500	1/2"

CENTER LINE MILLING DETAIL

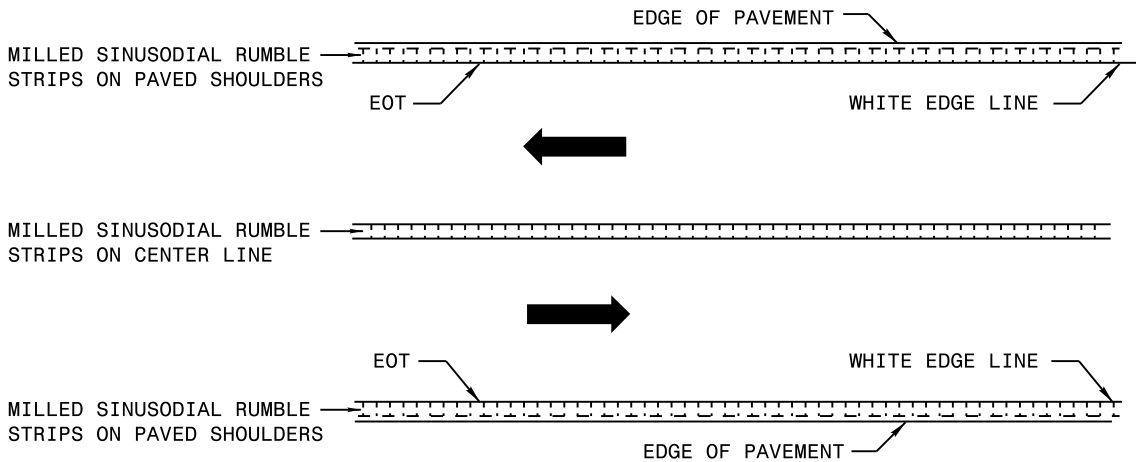


CENTER LINE



NOTES:

- 1) PAVEMENT MARKING MATERIAL SHALL BE THERMOPLASTIC.
- 2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS
- 3) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 4) PLACE MILLED SINUSODIAL RUMBLES AS SHOWN ABOVE IN THIS DETAIL ON BOTH SHOULDERS IN BOTH DIRECTIONS.
- 5) IF SNOWPLOWABLE MARKERS ARE TO BE INSTALLED IN THE CENTERLINE, SKIP A 24" SPACE IN THE RUMBLE STRIPES EVERY 80'.



LANE TREATMENT

LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

SCALE	N/A
DATE	5-2019
DWG. BY	TBL
DESIGN BY	JDH
APPROVED	JDH



REVISIONS

PROJECT NO.	SHEET NO.
44856.3.33	2C
F.A. PROJECT NO. HSIP-005210581	

ROADWAY DESIGN
ENGINEER



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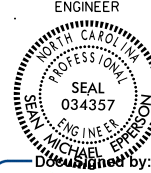
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REMOVAL UNIT.	
<u>ABBREVIATIONS</u>	
C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

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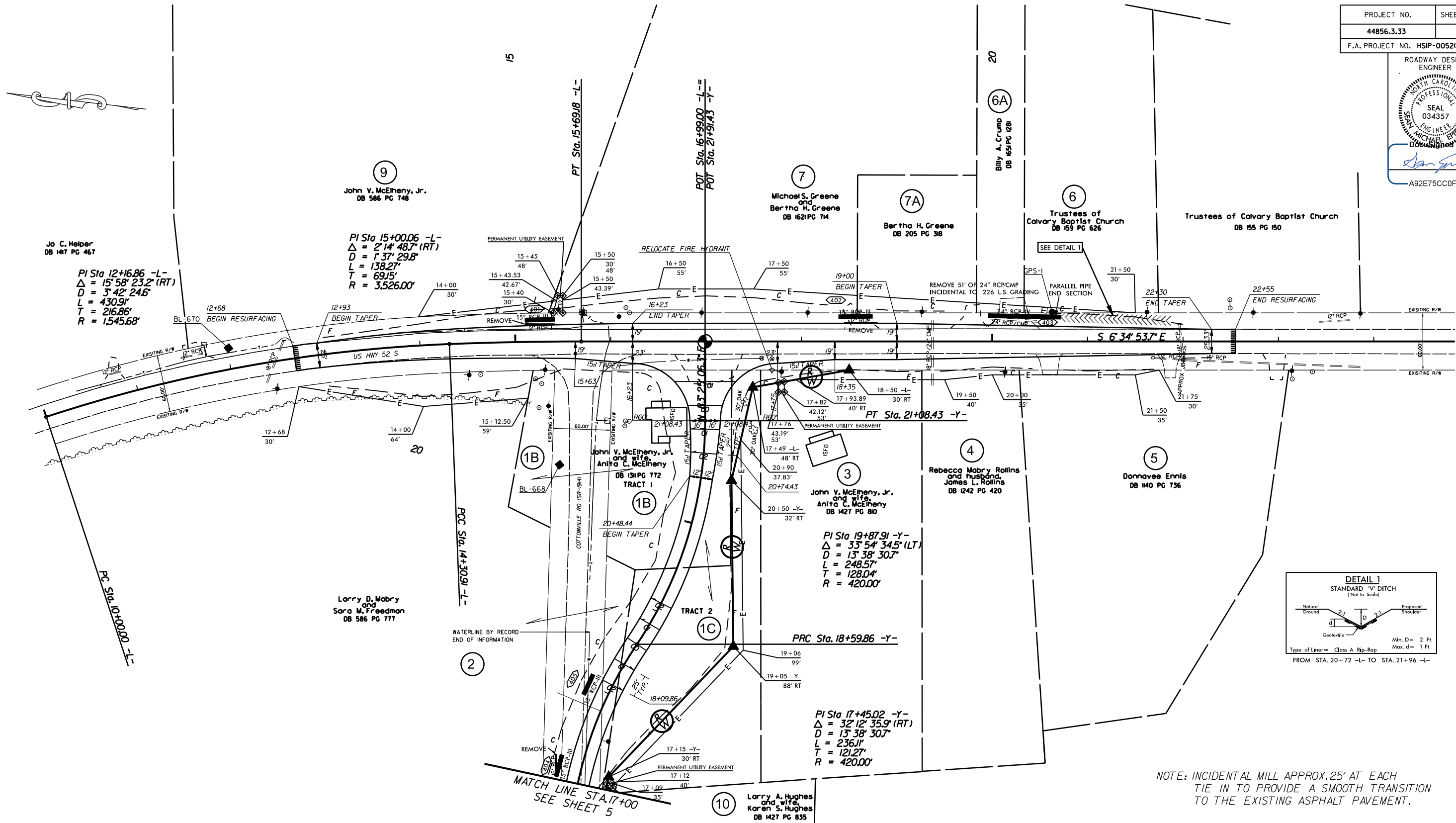
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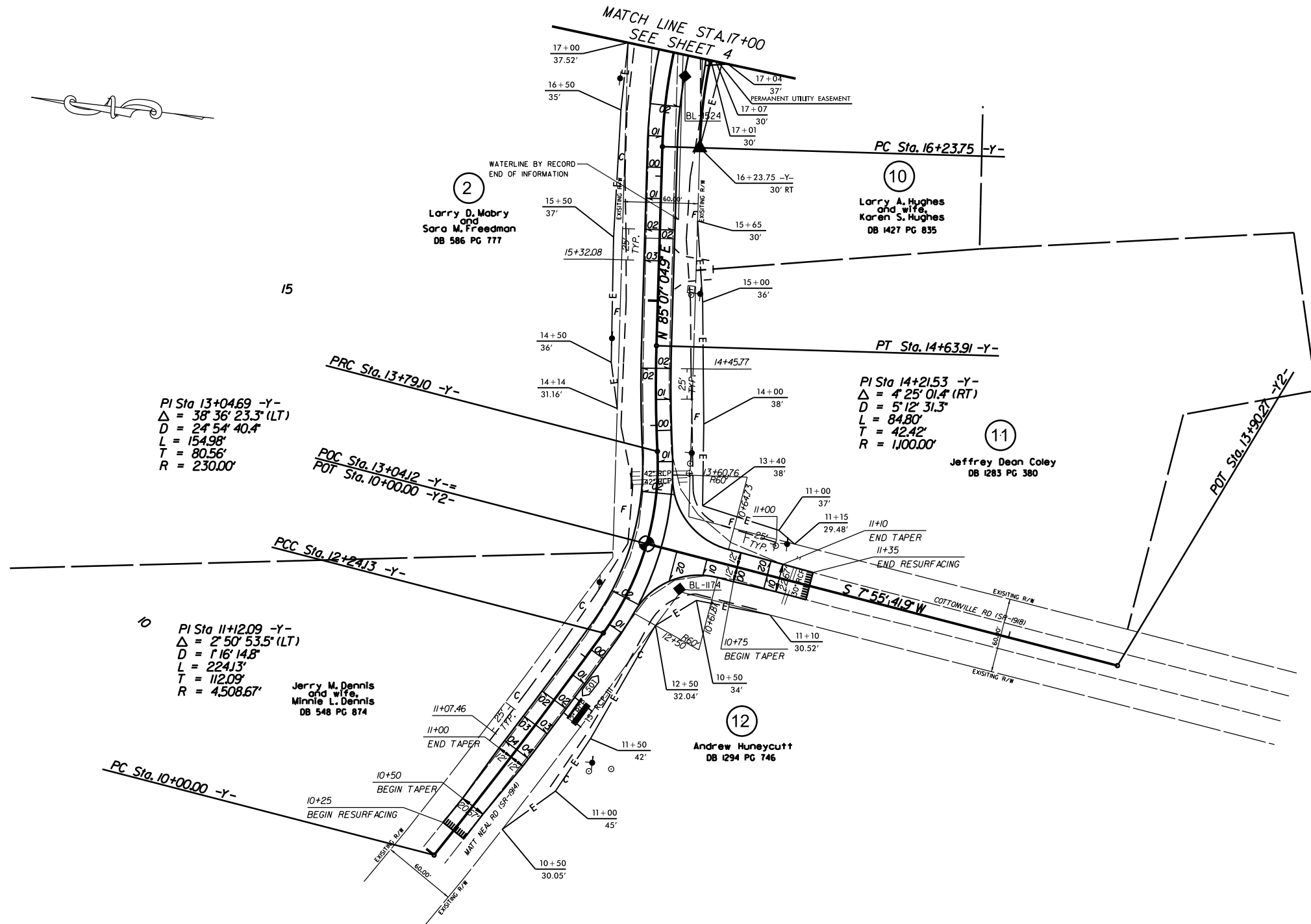
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TIE IN TO PROVIDE A SMOOTH TRANSITION
TO THE EXISTING ASPHALT PAVEMENT.

LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52 AT
COTTONVILLE ROAD (SR-1918) AND
BOWERS ROAD (SR-1745)

SCALE	1"=50'
DATE	5-2019
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH



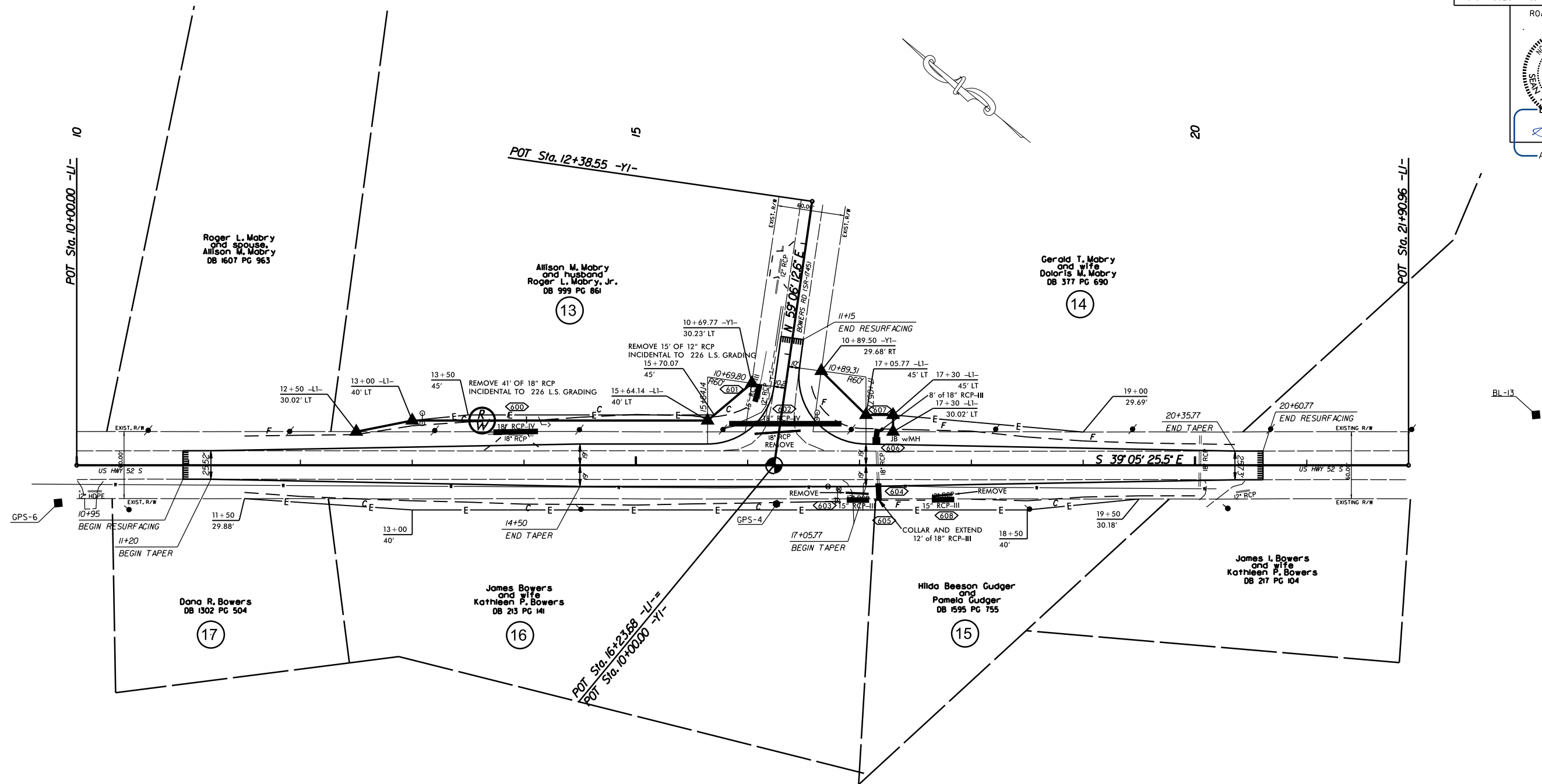
REVISIONS



NOTE: INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)			REVISIONS	
SCALE	1"=50'			
DATE	5-2019			
DWG. BY	JDH			
DESIGN BY	JDH			
APPROVED	JDH			





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SCALE	1"=50'		REVISIONS	
DATE	5-2019			
DWG. BY	JDH			
DESIGN BY	JDH			
APPROVED	DCG			

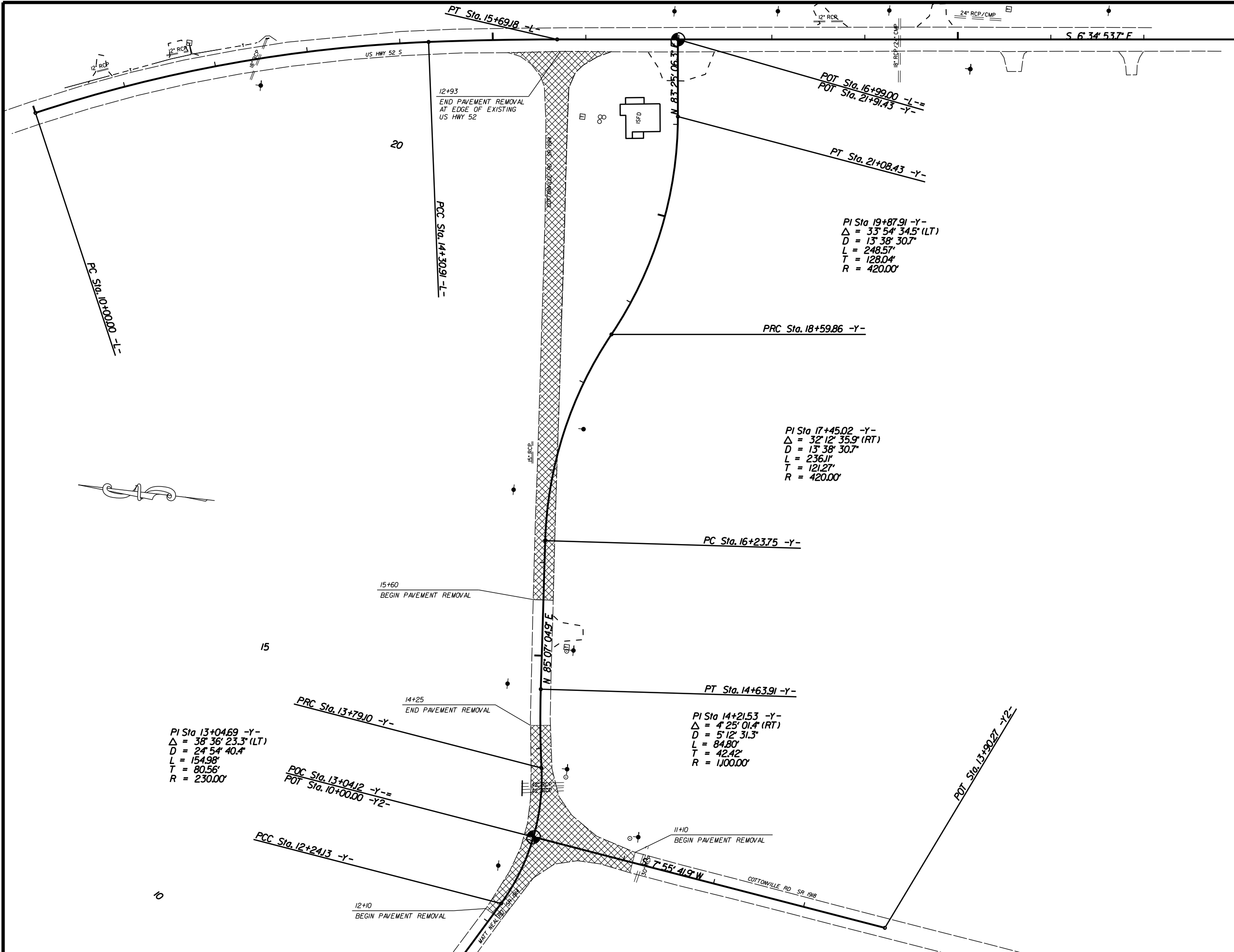
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44856.3.33	7
F.A. PROJECT NO. HSIP-005210581	

ROADWAY DESIGN
ENGINEER



Drawn by: *[Signature]*

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PAVEMENT REMOVAL

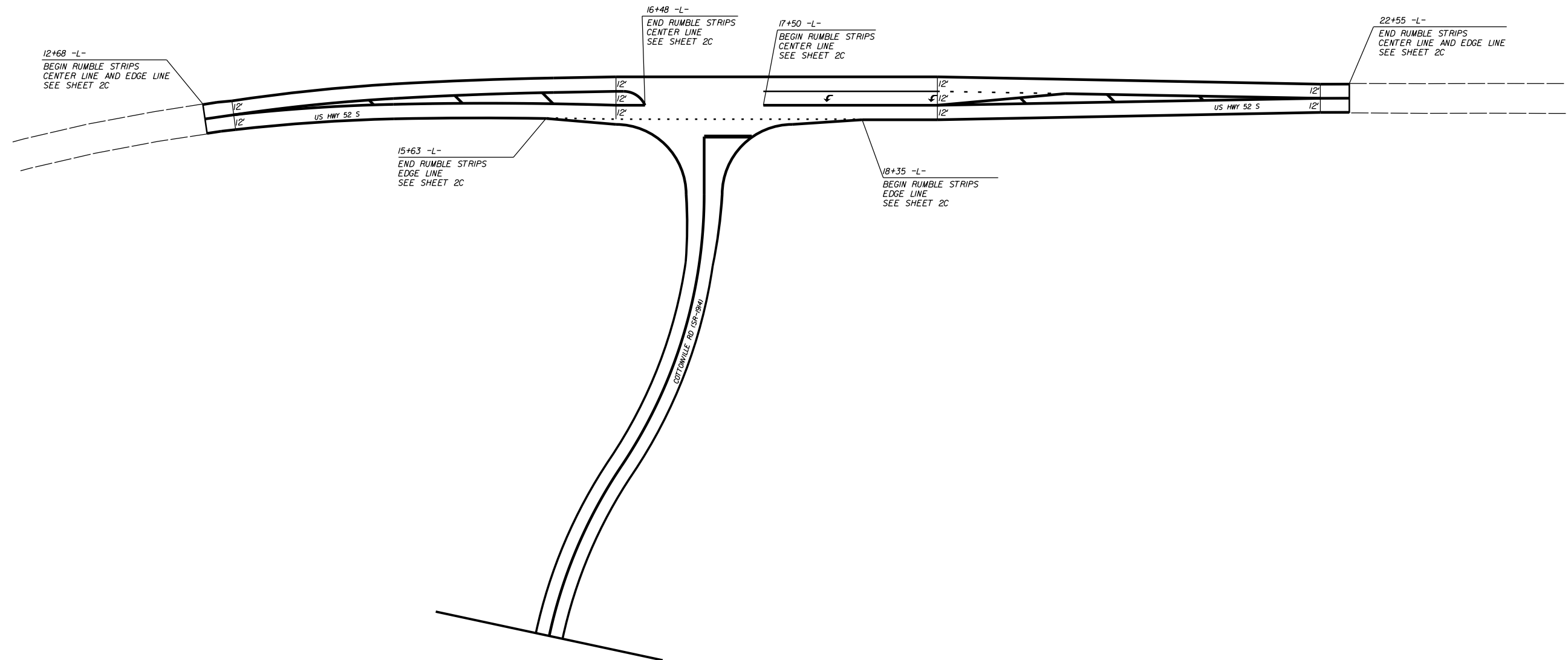
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SCALE	1"=50'
DATE	2-2019
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH
REVISIONS	

PROJECT NO.	SHEET NO.
44856.3.33	8
F.A. PROJECT NO. HSIP-0052(058)	

ROADWAY DESIGN
ENGINEER


SEAL
034357
ENGINEER
NORTH CAROLINA
McCall, Sean
Documented by:

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LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

SCALE	1"=50'
DATE	5-2019
DWG. BY	CEB
DESIGN BY	JDH
APPROVED	JDH



REVISIONS	

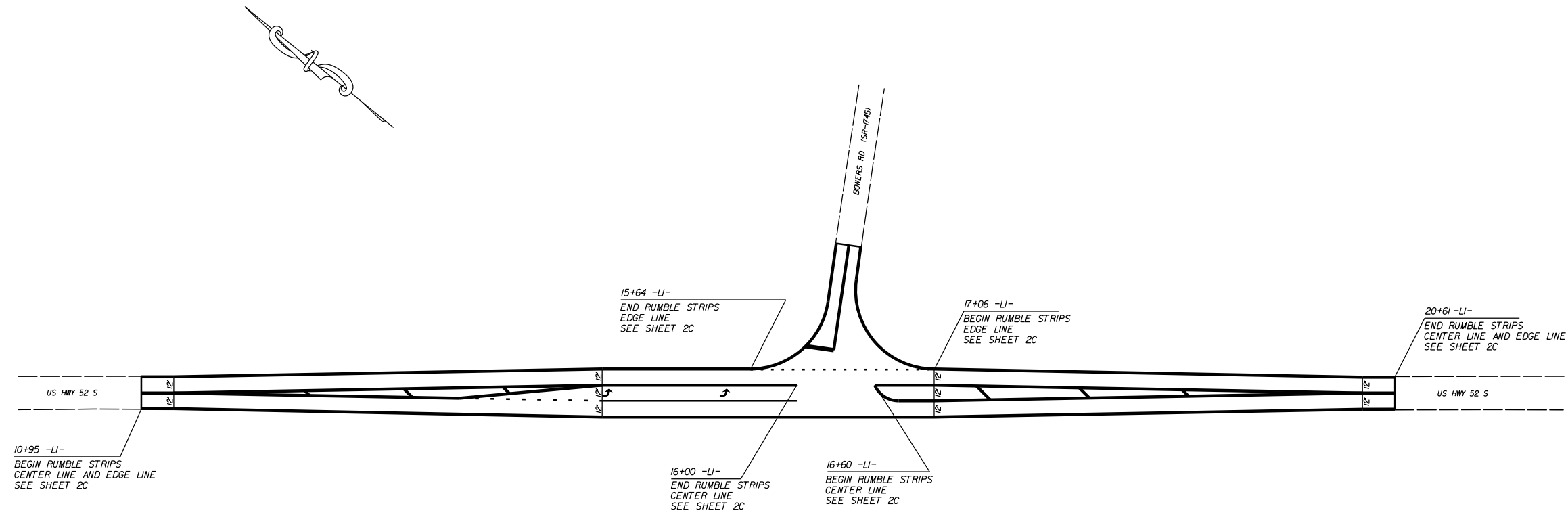
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F.A. PROJECT NO. HSIP-0052(058)	

ROADWAY DESIGN
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SEAL
034357
NORTH CAROLINA
PROFESSIONAL
ENGINEER

Authorized by:


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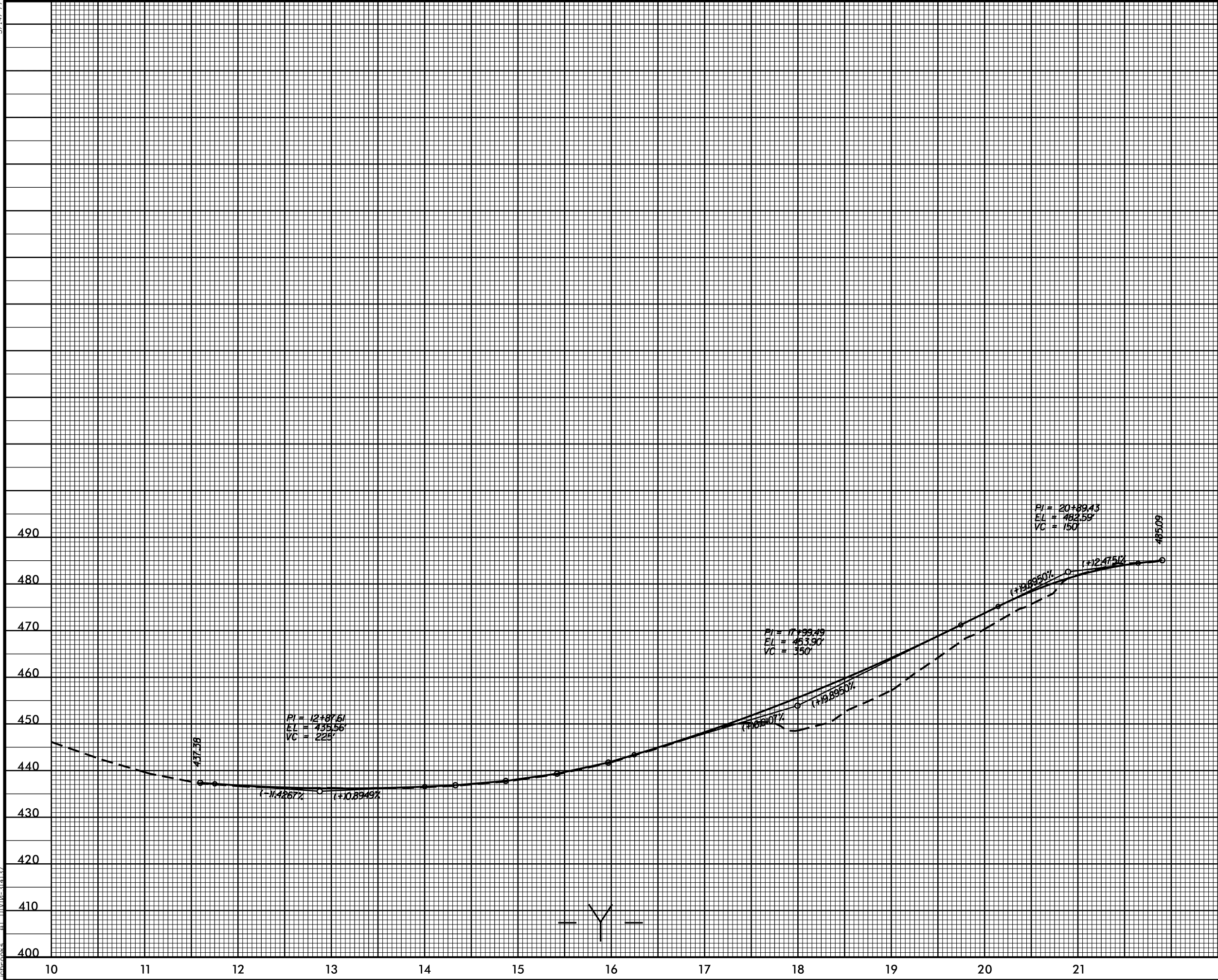


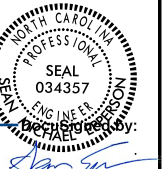
LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

SCALE	1"=50'		REVISIONS	
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			

5/14/99

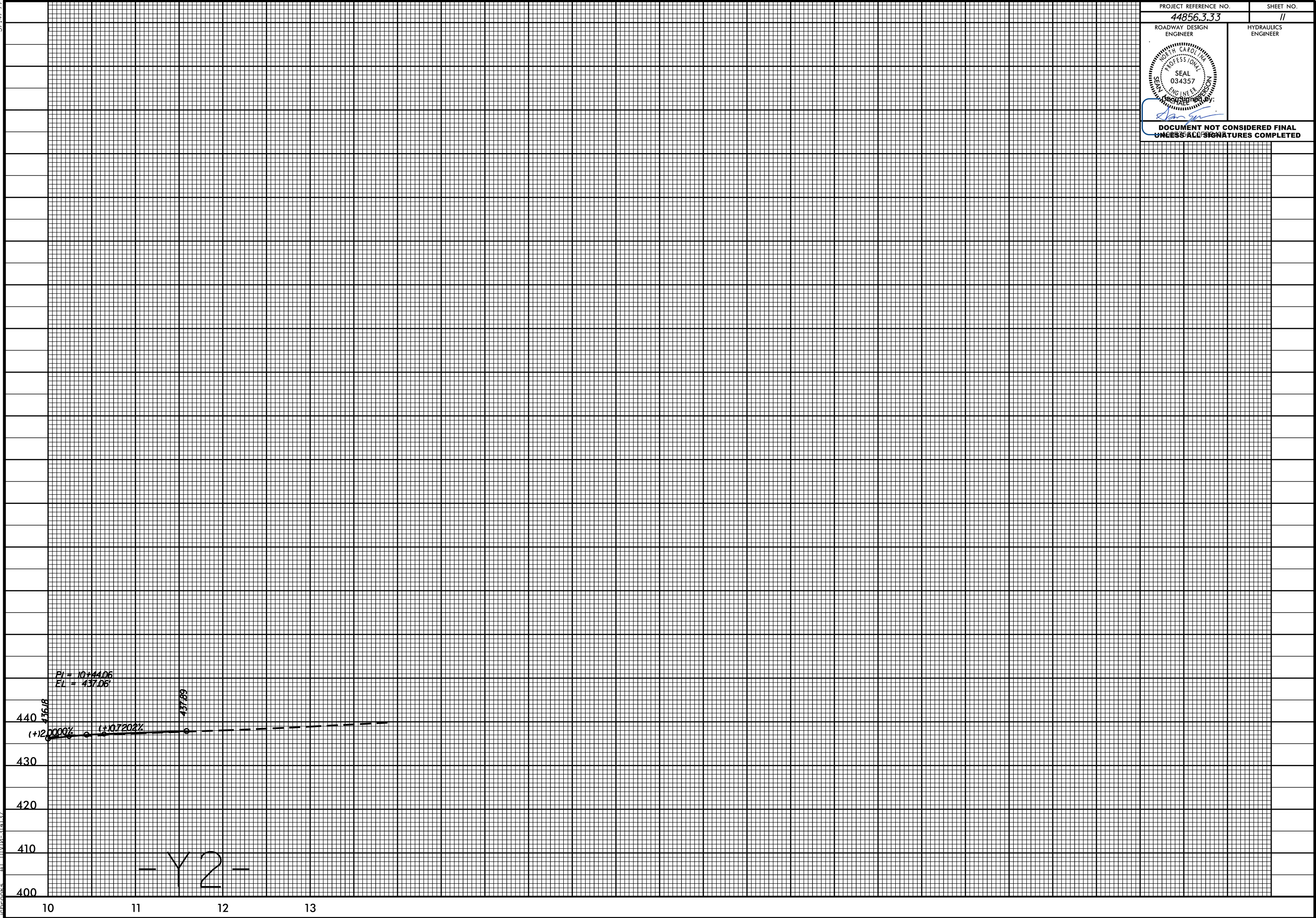
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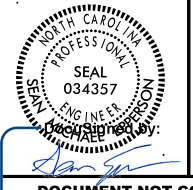


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5/14/99

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

TIP PROJECT: W-5601GB

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL



VICINITY MAP NOT TO SCALE

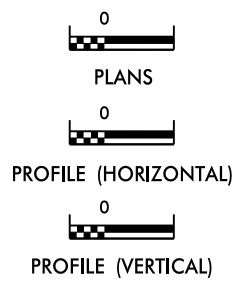
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44856.1.33	HSIP-0052(058)	P.E.	
44856.2.33	HSIP-0052(058)	R/W	
44856.3.33	HSIP-0052(058)	CONST.	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	T
1630.02	Silt Basin Type B	III III III
1633.01	Temporary Rock Silt Check Type-A	III III III
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	III III III
1633.02	Temporary Rock Silt Check Type-B	III III III
	Wattle / Coir Fiber Wattle	III III III
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	III III III
1634.01	Temporary Rock Sediment Dam Type-A	III III III
1634.02	Temporary Rock Sediment Dam Type-B	III III III
1635.01	Rock Pipe Inlet Sediment Trap Type-A	III III III
1635.02	Rock Pipe Inlet Sediment Trap Type-B	III III III
1630.04	Stilling Basin	III III III
1630.06	Special Stilling Basin	III III III
	Rock Inlet Sediment Trap:	III III III
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	III III III
	Tiered Skimmer Basin	III III III
	Infiltration Basin	III III III

THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

GRAPHIC SCALE



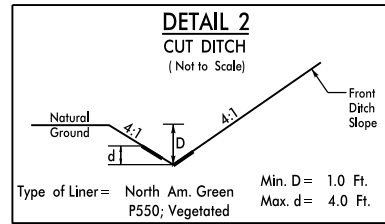
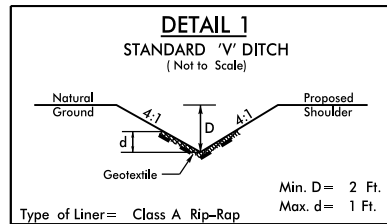
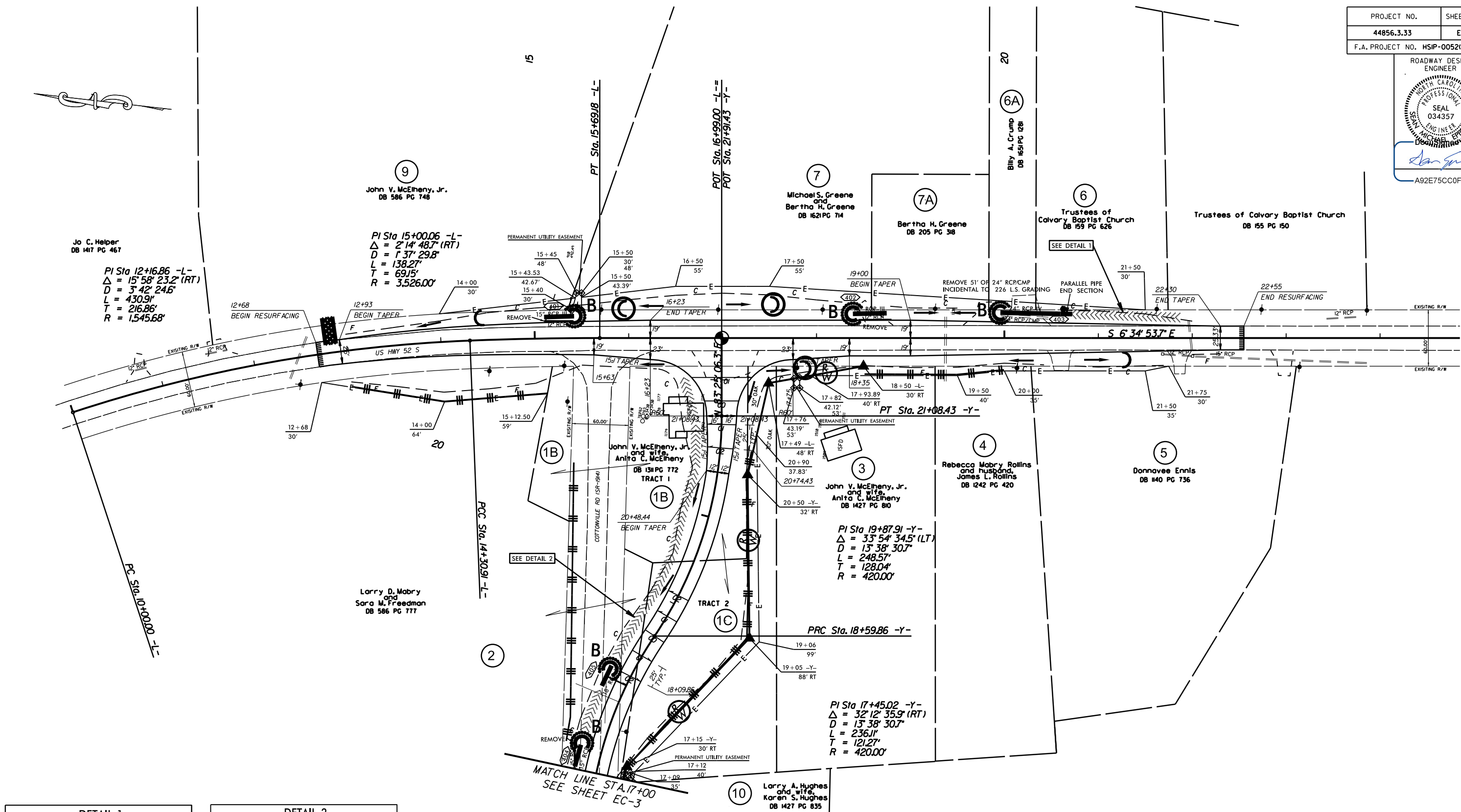
ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:
DDC UNIT DIVISION 10
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
2018 STANDARD SPECIFICATIONS

Designed by:
CHAD BURRIS 4159
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings			
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.			
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1633.03	Temporary Rock Silt Check Type C
1630.02	Silt Basin Type A	1634.01	Temporary Rock Sediment Dam Type A
1630.03	Temporary Silt Ditch	1634.02	Temporary Rock Sediment Dam Type B
1630.04	Stilling Basin	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.05	Temporary Diversion	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.06	Special Stilling Basin	1640.01	Coir Fiber Jaffle
1631.01	Matting Installation	1645.01	Temporary Stream Crossing



FROM STA. 20+72 -L- TO STA. 21+96 -L- LT

FROM STA. 11+00 -L- LT TO STA. 12+00 -Y- LT
 AND STA. 16+00 -Y- LT TO STA. 21+50 -Y- LT
 AND STA. 11+00 -Y- RT TO STA. 11+50 -Y- RT

EROSION CONTROL MEASURES MAY BE CHANGED,
IN FIELD AS DIRECTED BY THE ENGINEER.

LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)		REVISIONS	
SCALE	1"=50'		
DATE	5-2019		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		

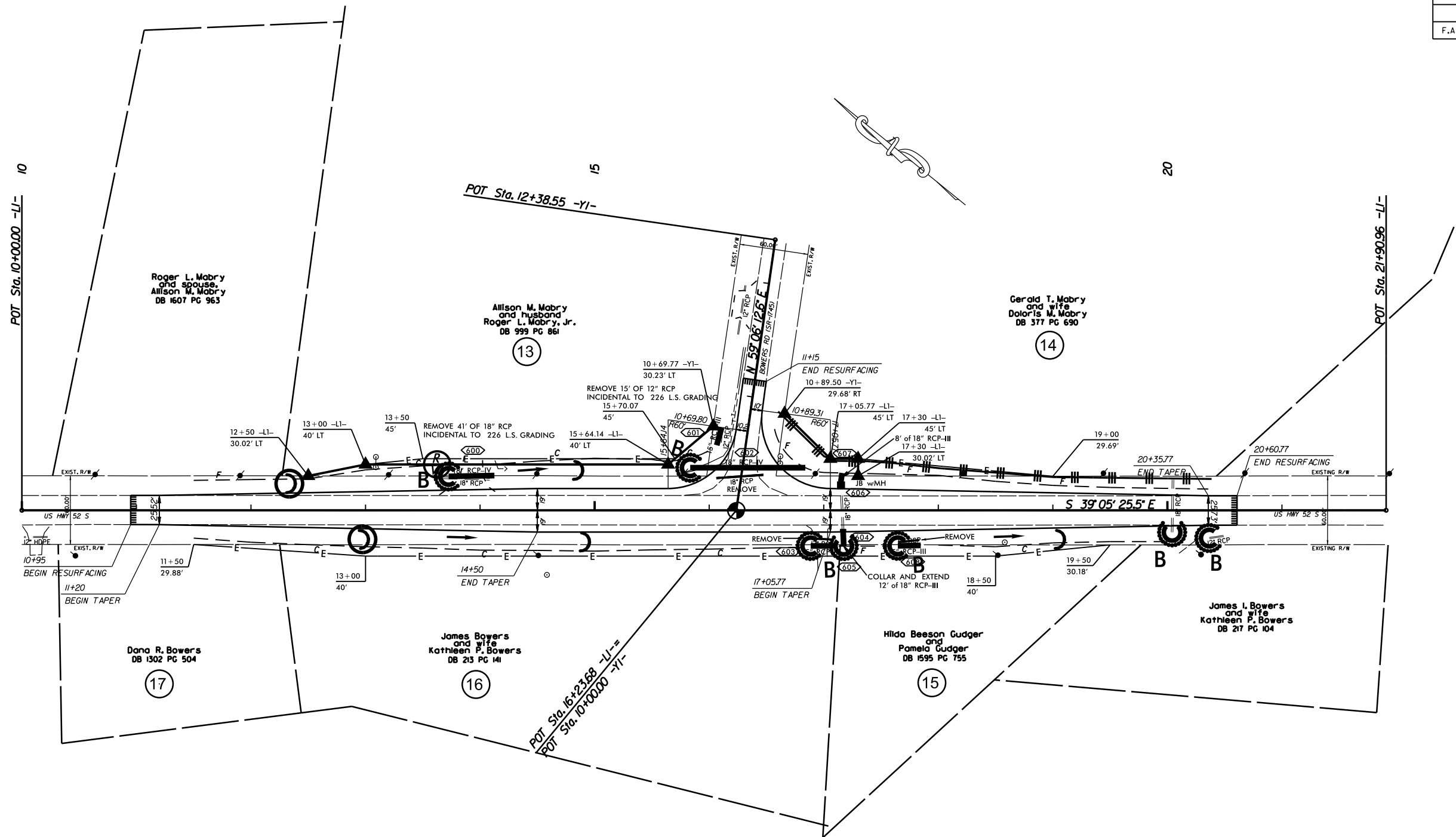
PROJECT NO.	SHEET NO.
44856.3.33	EC-4
F.A. PROJECT NO. HSIP-005210581	

ROADWAY DESIGN
ENGINEER

SEAL
034357
ENGINEER
MICHAEL J. BOWERS

DESIGNED BY:
[Signature]

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EROSION CONTROL MEASURES MAY BE CHANGED,
IN FIELD AS DIRECTED BY THE ENGINEER.

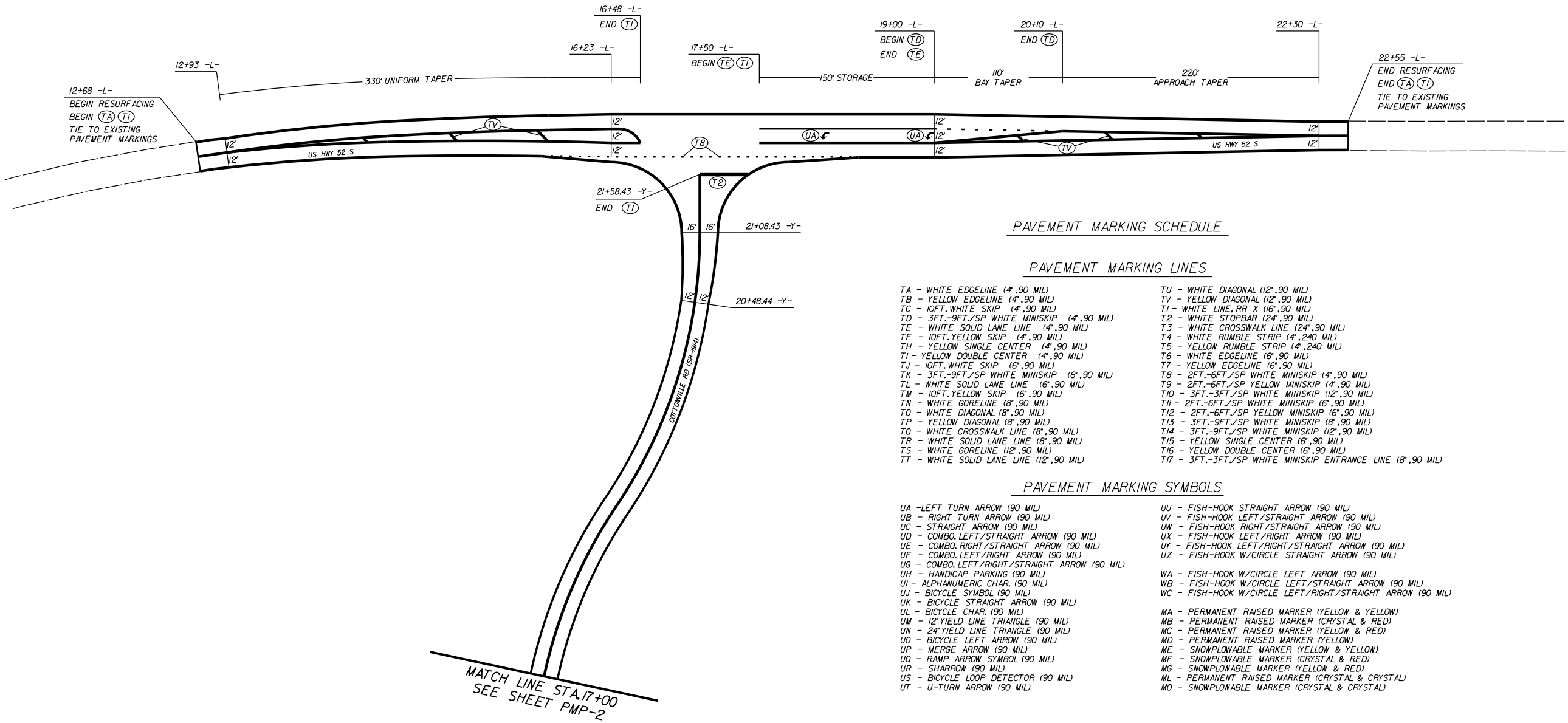
LEFT TURN LANE INSTALLATION AND ROAD REALIGNMENT ON US 52 AT COTTONVILLE ROAD (SR-1918) AND BOWERS ROAD (SR-1745)			REVISIONS	
SCALE	1"=50'			
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			

PROJECT NO.
44856.3.33
F.A. PROJECT NO. HSIP-0052(058)

SHEET NO.
PMP-I

ROADWAY DESIGN
ENGINEER

Seal No. 034357
Sean McFarland
A92E75CC0FFB43B...



PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- TA - WHITE EDGELINE (4',90 MIL)

TB - YELLOW EDGELINE (4',90 MIL)

TC - 10FT. WHITE SKIP (4',90 MIL)

TD - 3FT.-9FT./SP WHITE MINISKIP (4',90 MIL)

TE - WHITE SOLID LANE LINE (4',90 MIL)

TF - 10FT. YELLOW SKIP (4',90 MIL)

TH - YELLOW SINGLE CENTER (4',90 MIL)

TI - YELLOW DOUBLE CENTER (4',90 MIL)

TJ - 10FT. WHITE SKIP (16',90 MIL)

TK - 3FT.-9FT./SP WHITE MINISKIP (16',90 MIL)

TL - WHITE SOLID LANE LINE (16',90 MIL)

TM - 10FT. YELLOW SKIP (16',90 MIL)

TN - WHITE GORELINE (8',90 MIL)

TO - WHITE DIAGONAL (8',90 MIL)

TP - YELLOW DIAGONAL (8',90 MIL)

TQ - WHITE CROSSWALK LINE (8',90 MIL)

TR - WHITE SOLID LANE LINE (8',90 MIL)

TS - WHITE GORELINE (12',90 MIL)

TT - WHITE SOLID LANE LINE (12',90 MIL)
- TU - WHITE DIAGONAL (12',90 MIL)

TV - YELLOW DIAGONAL (12',90 MIL)

T1 - WHITE LINE, RR X (16',90 MIL)

T2 - WHITE STOPBAR (24',90 MIL)

T3 - WHITE CROSSWALK LINE (24',90 MIL)

T4 - WHITE RUMBLE STRIP (4',240 MIL)

T5 - YELLOW RUMBLE STRIP (4',240 MIL)

T6 - WHITE EDGELINE (16',90 MIL)

T7 - YELLOW EDGELINE (16',90 MIL)

T8 - 2FT.-6FT./SP WHITE MINISKIP (4',90 MIL)

T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',90 MIL)

T10 - 3FT.-3FT./SP WHITE MINISKIP (12',90 MIL)

T11 - 2FT.-6FT./SP WHITE MINISKIP (16',90 MIL)

T12 - 2FT.-6FT./SP YELLOW MINISKIP (16',90 MIL)

T13 - 3FT.-9FT./SP WHITE MINISKIP (8',90 MIL)

T14 - 3FT.-9FT./SP WHITE MINISKIP (12',90 MIL)

T15 - YELLOW SINGLE CENTER (16',90 MIL)

T16 - YELLOW DOUBLE CENTER (16',90 MIL)

T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8',90 MIL)

PAVEMENT MARKING SYMBOLS

- UA - LEFT TURN ARROW (90 MIL)

UB - RIGHT TURN ARROW (90 MIL)

UC - STRAIGHT ARROW (90 MIL)

UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)

UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)

UF - COMBO. LEFT/RIGHT ARROW (90 MIL)

UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

UH - HANDICAP PARKING (90 MIL)

UI - ALPHANUMERIC CHAR. (90 MIL)

UJ - BICYCLE SYMBOL (90 MIL)

UK - BICYCLE STRAIGHT ARROW (90 MIL)

UL - BICYCLE CHAR. (90 MIL)

UM - 12" YIELD LINE TRIANGLE (90 MIL)

UN - 24" YIELD LINE TRIANGLE (90 MIL)

UP - BICYCLE LEFT ARROW (90 MIL)

UQ - MERGE ARROW (90 MIL)

UR - RAMP ARROW SYMBOL (90 MIL)

US - SHARROW (90 MIL)

UT - BICYCLE LOOP DETECTOR (90 MIL)

UU - U-TURN ARROW (90 MIL)
- UV - FISH-HOOK STRAIGHT ARROW (90 MIL)

UW - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)

UX - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)

UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)

WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)

WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)

MB - PERMANENT RAISED MARKER (CRYSTAL & RED)

MC - PERMANENT RAISED MARKER (YELLOW & RED)

MD - PERMANENT RAISED MARKER (YELLOW)

ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)

MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)

MG - SNOWPLOWABLE MARKER (YELLOW & RED)

ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)

MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)

LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

SCALE
DATE
DWG. BY
DESIGN BY
APPROVED

r=50'
5-2019
JDH
JDH
JDH

REVISIONS



PROJECT NO.
44856.3.33
F.A. PROJECT NO.

SHEET NO.
PMP-2
HSIP-0052(58)

ROADWAY DESIGN
ENGINEER

SEAL
034357
NORTH CAROLINA
PROFESSIONAL
ENGINEER

Drawn by:


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PAVEMENT MARKING SCHEDULE

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TJ - 10FT. WHITE SKIP (6',90 MIL)

TK - 3FT.-9FT./SP WHITE MINISKIP (6',90 MIL)

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UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

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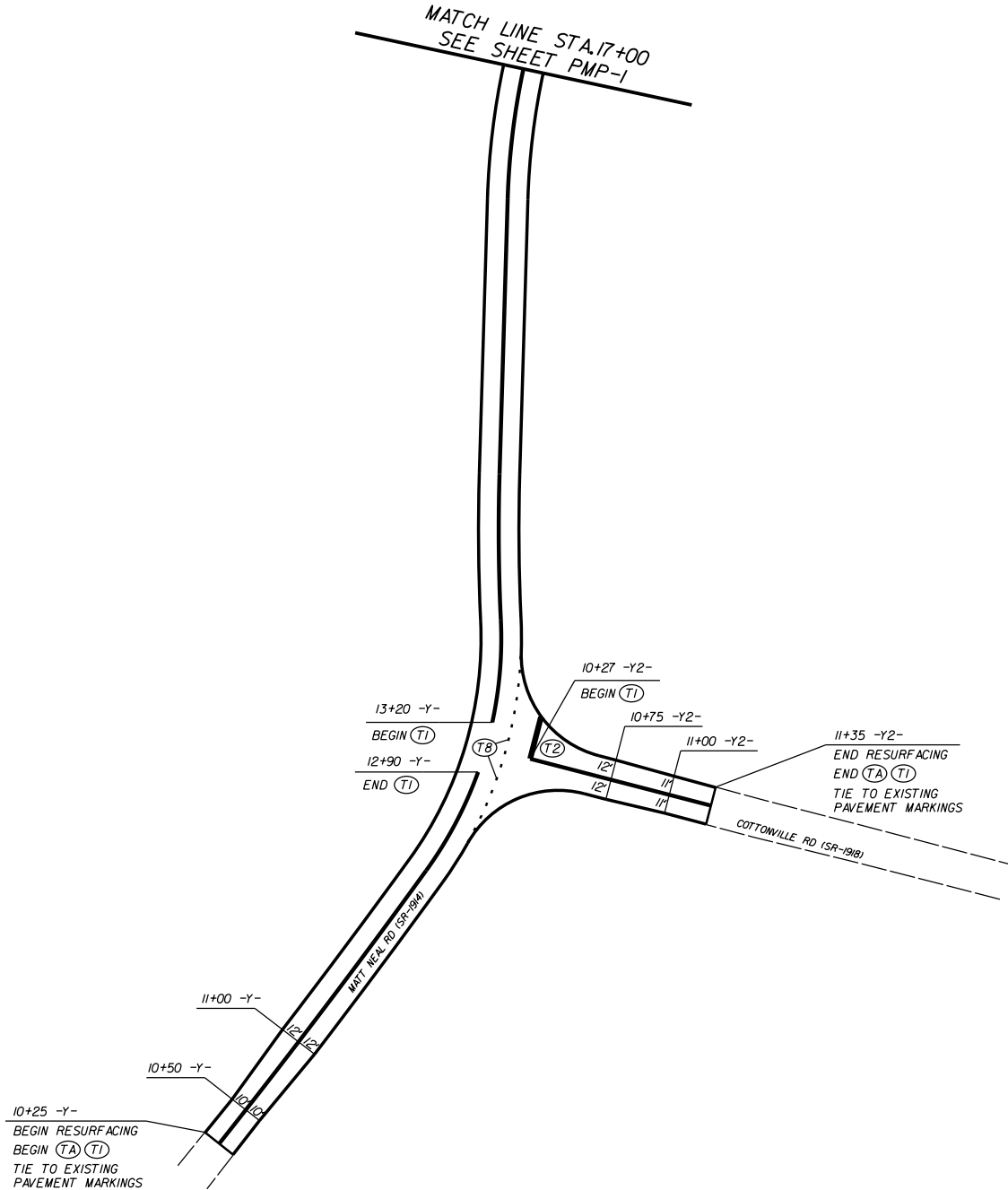
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LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

SCALE	1"=50'
DATE	5-2019
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH



REVISIONS	

PROJECT NO.
44856.3.33
F.A. PROJECT NO. HSP-0052(058)

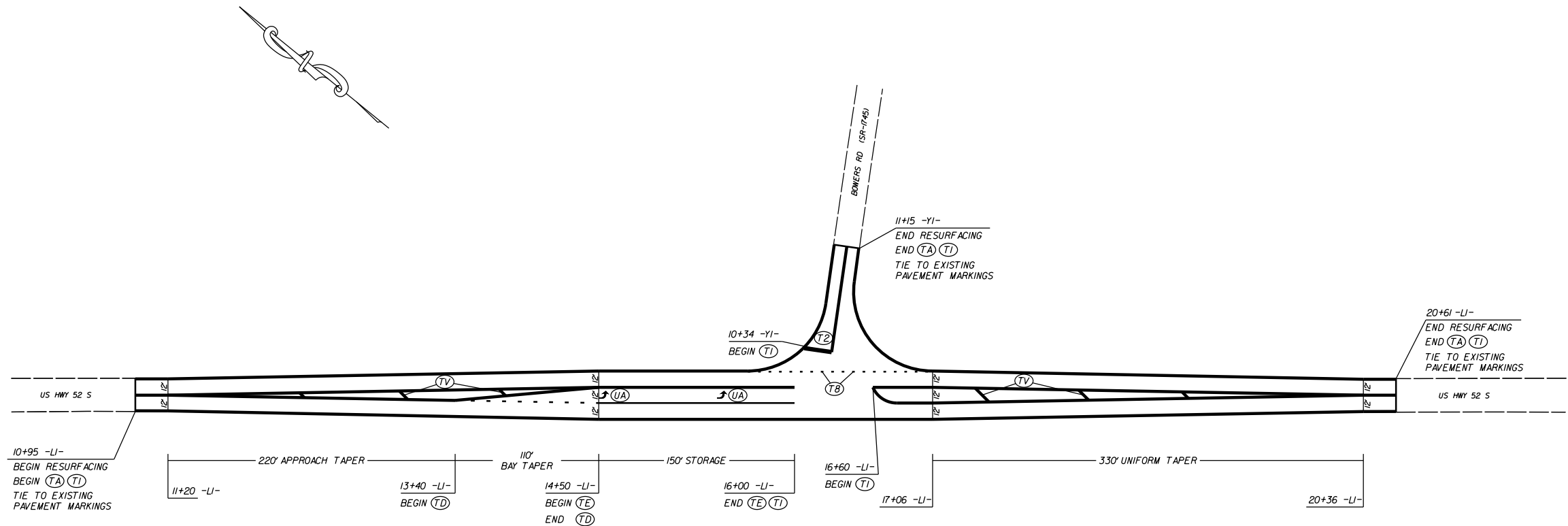
SHEET NO.
PMP-3

ROADWAY DESIGN
ENGINEER

SEAL
034357
ENGINEER

DESIGNED BY:


A92E75CC0FFB43B...



PAVEMENT MARKING SCHEDULE

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TB - YELLOW EDGE LINE (4", 90 MIL)

TC - 10FT. WHITE SKIP (4", 90 MIL)

TD - 3FT.-9FT./SP WHITE MINISKIP (4", 90 MIL)

TE - WHITE SOLID LANE LINE (4", 90 MIL)

TF - 10FT. YELLOW SKIP (4", 90 MIL)

TH - YELLOW SINGLE CENTER (4", 90 MIL)

TI - YELLOW DOUBLE CENTER (4", 90 MIL)

TJ - 10FT. WHITE SKIP (6", 90 MIL)

TK - 3FT.-9FT./SP WHITE MINISKIP (6", 90 MIL)

TL - WHITE SOLID LANE LINE (6", 90 MIL)

TM - 10FT. YELLOW SKIP (6", 90 MIL)

TN - WHITE GORE LINE (8", 90 MIL)

TO - WHITE DIAGONAL (8", 90 MIL)

TP - YELLOW DIAGONAL (8", 90 MIL)

TQ - WHITE CROSSWALK LINE (8", 90 MIL)

TR - WHITE SOLID LANE LINE (8", 90 MIL)

TS - WHITE GORE LINE (12", 90 MIL)

TT - WHITE SOLID LANE LINE (12", 90 MIL)
- TU - WHITE DIAGONAL (12", 90 MIL)

TV - YELLOW DIAGONAL (12", 90 MIL)

T1 - WHITE LINE, RR X (16", 90 MIL)

T2 - WHITE STOPBAR (24", 90 MIL)

T3 - WHITE CROSSWALK LINE (24", 90 MIL)

T4 - WHITE RUMBLE STRIP (4", 240 MIL)

T5 - YELLOW RUMBLE STRIP (4", 240 MIL)

T6 - WHITE EDGE LINE (6", 90 MIL)

T7 - YELLOW EDGE LINE (6", 90 MIL)

T8 - 2FT.-6FT./SP WHITE MINISKIP (4", 90 MIL)

T9 - 2FT.-6FT./SP YELLOW MINISKIP (4", 90 MIL)

T10 - 3FT.-3FT./SP WHITE MINISKIP (12", 90 MIL)

T11 - 2FT.-6FT./SP WHITE MINISKIP (6", 90 MIL)

T12 - 2FT.-6FT./SP YELLOW MINISKIP (6", 90 MIL)

T13 - 3FT.-9FT./SP WHITE MINISKIP (8", 90 MIL)

T14 - 3FT.-9FT./SP WHITE MINISKIP (12", 90 MIL)

T15 - YELLOW SINGLE CENTER (6", 90 MIL)

T16 - YELLOW DOUBLE CENTER (6", 90 MIL)

T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8", 90 MIL)

PAVEMENT MARKING SYMBOLS

- UA - LEFT TURN ARROW (90 MIL)

UB - RIGHT TURN ARROW (90 MIL)

UC - STRAIGHT ARROW (90 MIL)

UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)

UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)

UF - COMBO. LEFT/RIGHT ARROW (90 MIL)

UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

UH - HANDICAP PARKING (90 MIL)

UI - ALPHANUMERIC CHAR. (90 MIL)

UJ - BICYCLE SYMBOL (90 MIL)

UK - BICYCLE STRAIGHT ARROW (90 MIL)

UL - BICYCLE CHAR. (90 MIL)

UM - 12" YIELD LINE TRIANGLE (90 MIL)

UN - 24" YIELD LINE TRIANGLE (90 MIL)

UO - BICYCLE LEFT ARROW (90 MIL)

UP - MERGE ARROW (90 MIL)

UQ - RAMP ARROW SYMBOL (90 MIL)

UR - SHARROW (90 MIL)

US - BICYCLE LOOP DETECTOR (90 MIL)

UT - U-TURN ARROW (90 MIL)
- UV - FISH-HOOK STRAIGHT ARROW (90 MIL)

UW - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)

UX - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)

UY - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)

UZ - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)

WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)

WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)

MB - PERMANENT RAISED MARKER (CRYSTAL & RED)

MC - PERMANENT RAISED MARKER (YELLOW & RED)

MD - PERMANENT RAISED MARKER (YELLOW)

ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)

MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)

MG - SNOWPLOWABLE MARKER (YELLOW & RED)

ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)

MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)

LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS ROAD (SR-1745)

SCALE	1"=50'	DIVISION OF HIGHWAYS  TRANSPORTATION	REVISIONS	
DATE	5-2019			
DWG. BY	JDH			
DESIGN BY	JDH			
APPROVED	JDH			

PROJECT NO.
44856.3.33
F.A. PROJECT NO. HSIP-005210581

SHEET NO.
TCP-1

ROADWAY DESIGN
ENGINEER



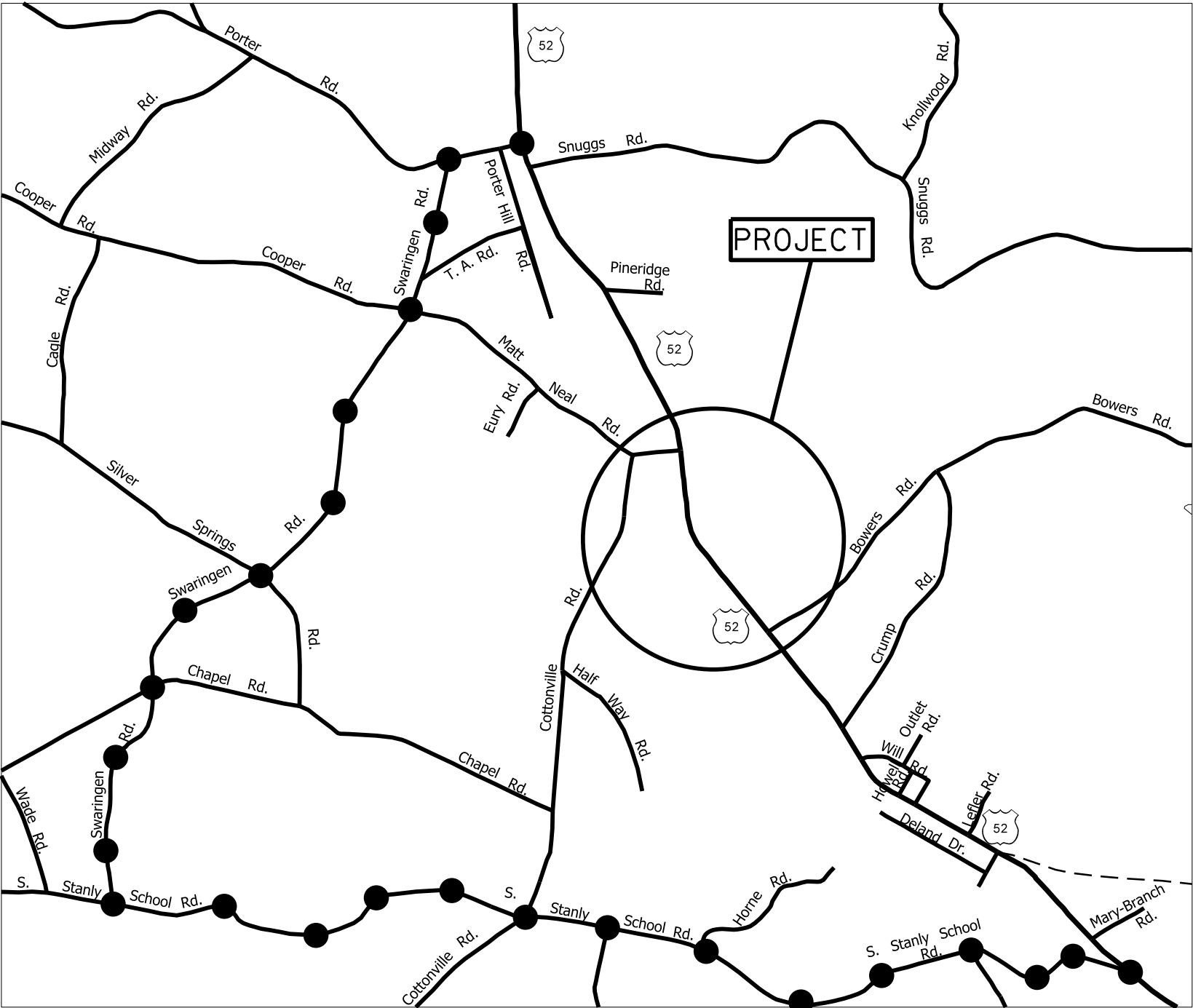
Seal of Michael E. Jones, Professional Engineer, State of North Carolina, License No. 034357

Designed by:

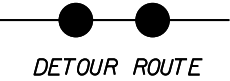

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OFFSITE DETOUR

OFFSITE DETOUR TO BE INSTALLED AND MAINTAINED BY NCDOT.
THE CONTRACTOR IS RESPONSIBLE FOR THE BARRACADES ON THE PROJECT.SEE SHEET TCP-2



NOTE: CONTRACTOR SHALL CONTACT
SELINA BLALOCK AT 704-244-8270
TWO WEEKS PRIOR TO ROAD CLOSURE.

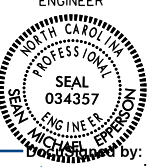


LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS RD.(SR-1745)



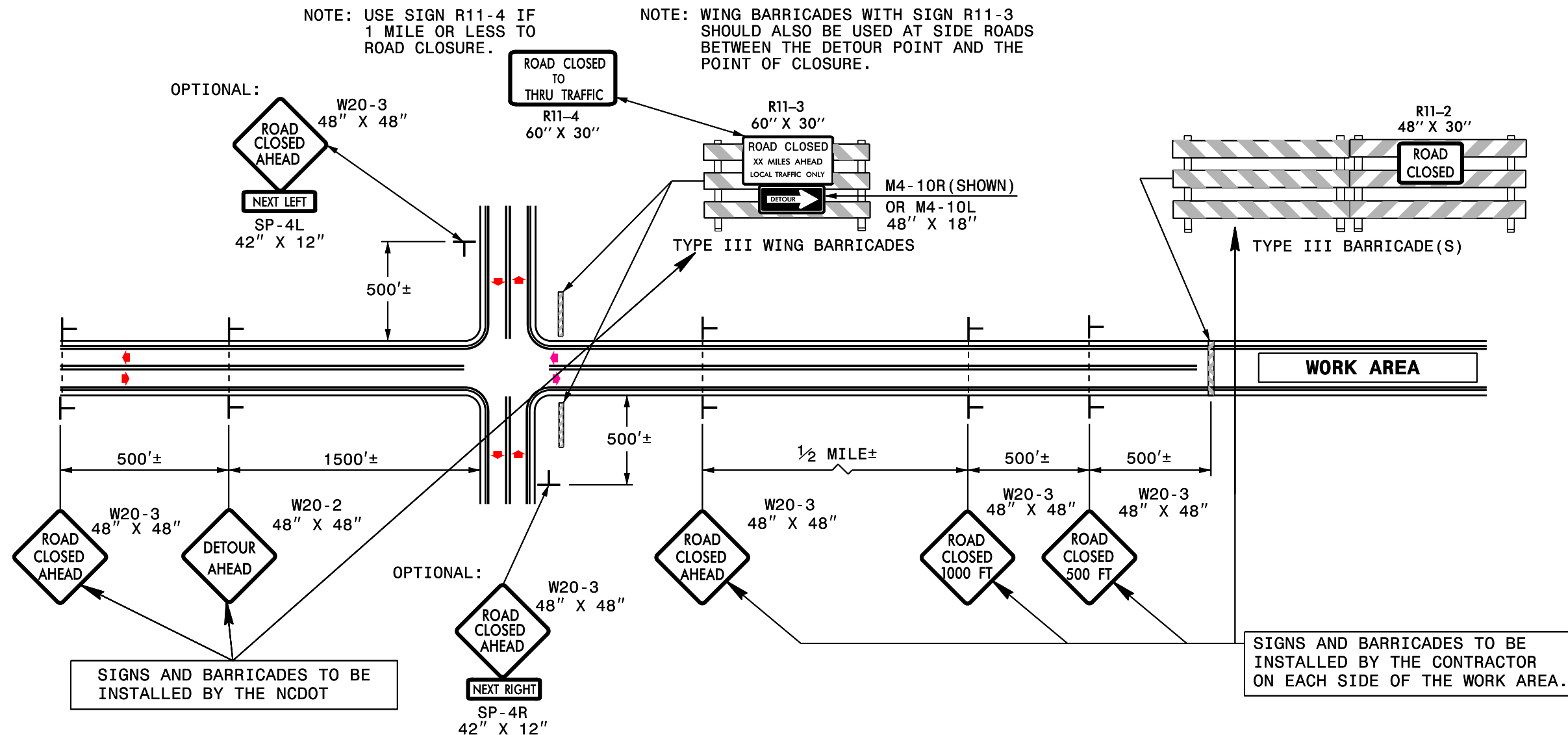
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DWG. BY	JCB	
DESIGN BY	JDH	
APPROVED	JDH	

PROJECT NO.	SHEET NO.
44856.3.33	TCP-2
F.A. PROJECT NO. HSIP-0052(058)	

ROADWAY DESIGN
ENGINEER

Continued by:

A92E75CC0FFB43B..



GENERAL NOTES

- 1-IF NECESSARY USE THIS STD. FOR TWO-LANE, TWO-WAY, AND MULTILANE DIVIDED AND UNDIVIDED ROADWAYS.
- 2-INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DESTINATION SIGNS, AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY NCDOT FORCES UNLESS OTHERWISE DESIGNATED IN THE PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT THE NECESSARY PROVISIONS CAN BE MADE TO INSTALL DETOUR ROUTE SIGNS, INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS, OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.
- 3-INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
- 4-USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.
- 5-DO NOT DISPLAY FRACTIONS OR DECIMALS ON SIGN R11-3 "ROAD CLOSED XX MILES AHEAD".
- 6-POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.
- 7-USE PORTABLE SIGNS IF ROAD CLOSURE IS TO BE IMPLEMENTED FOR LESS THAN ONE DAY OR FOR EMERGENCIES.

LEGEND

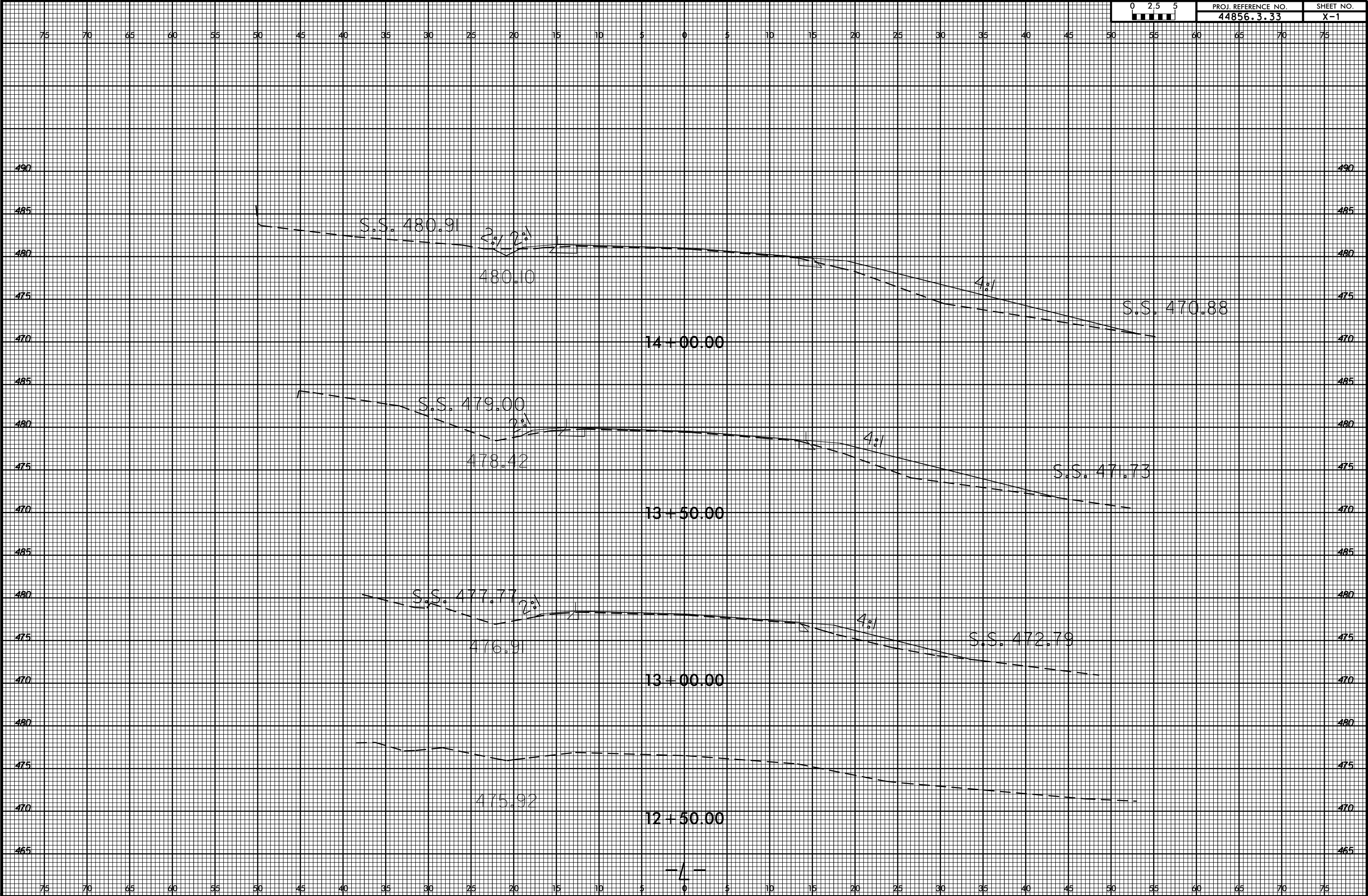
└ STATIONARY SIGN
 ◀ DIRECTION OF TRAFFIC FLOW

LEFT TURN LANE INSTALLATION AND
ROAD REALIGNMENT ON US 52
AT COTTONVILLE ROAD (SR-1918)
AND BOWERS RD.(SR-1745)

SCALE	N/A		REVISIONS	
DATE	5-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			

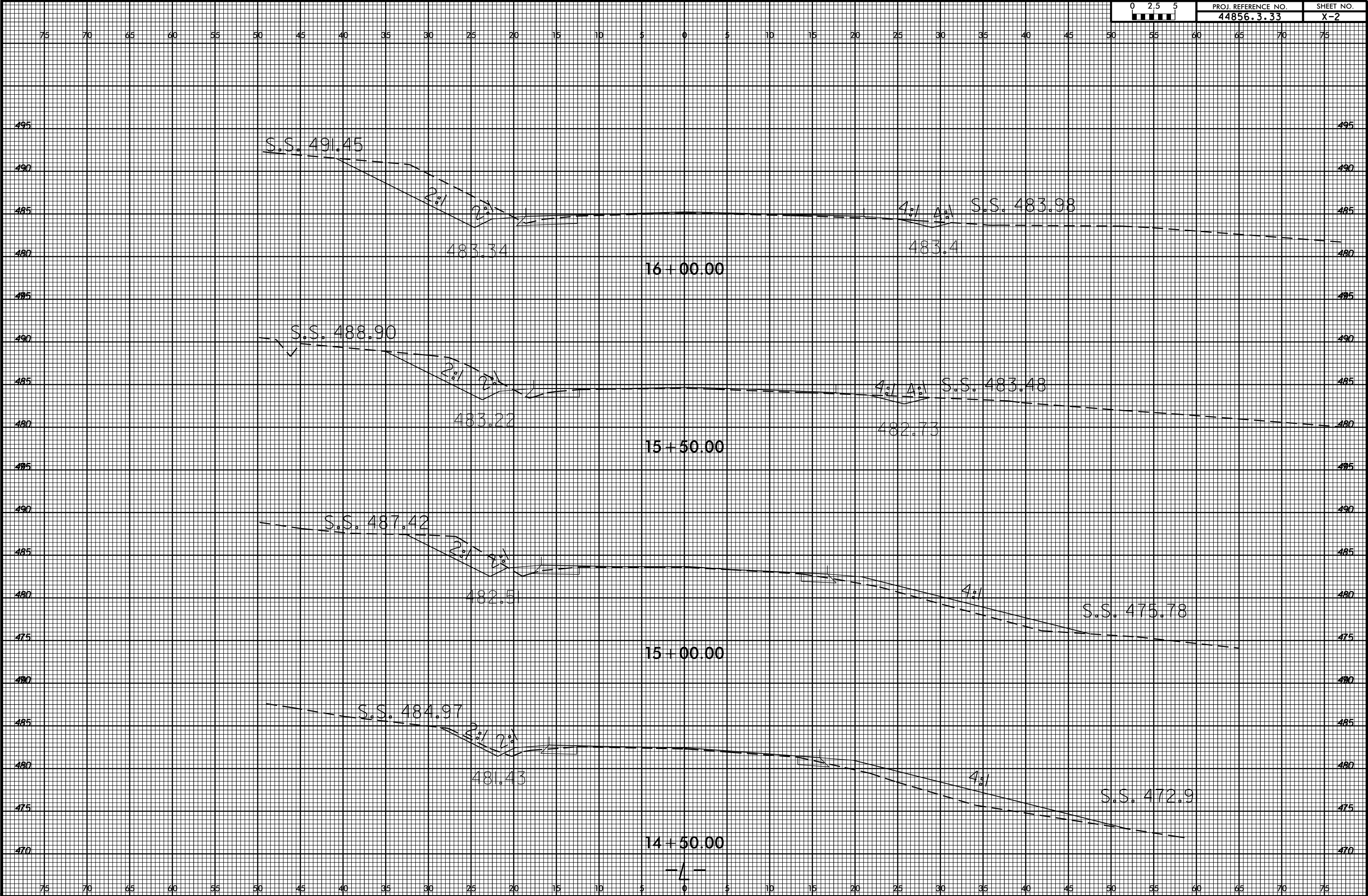
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icbrooks



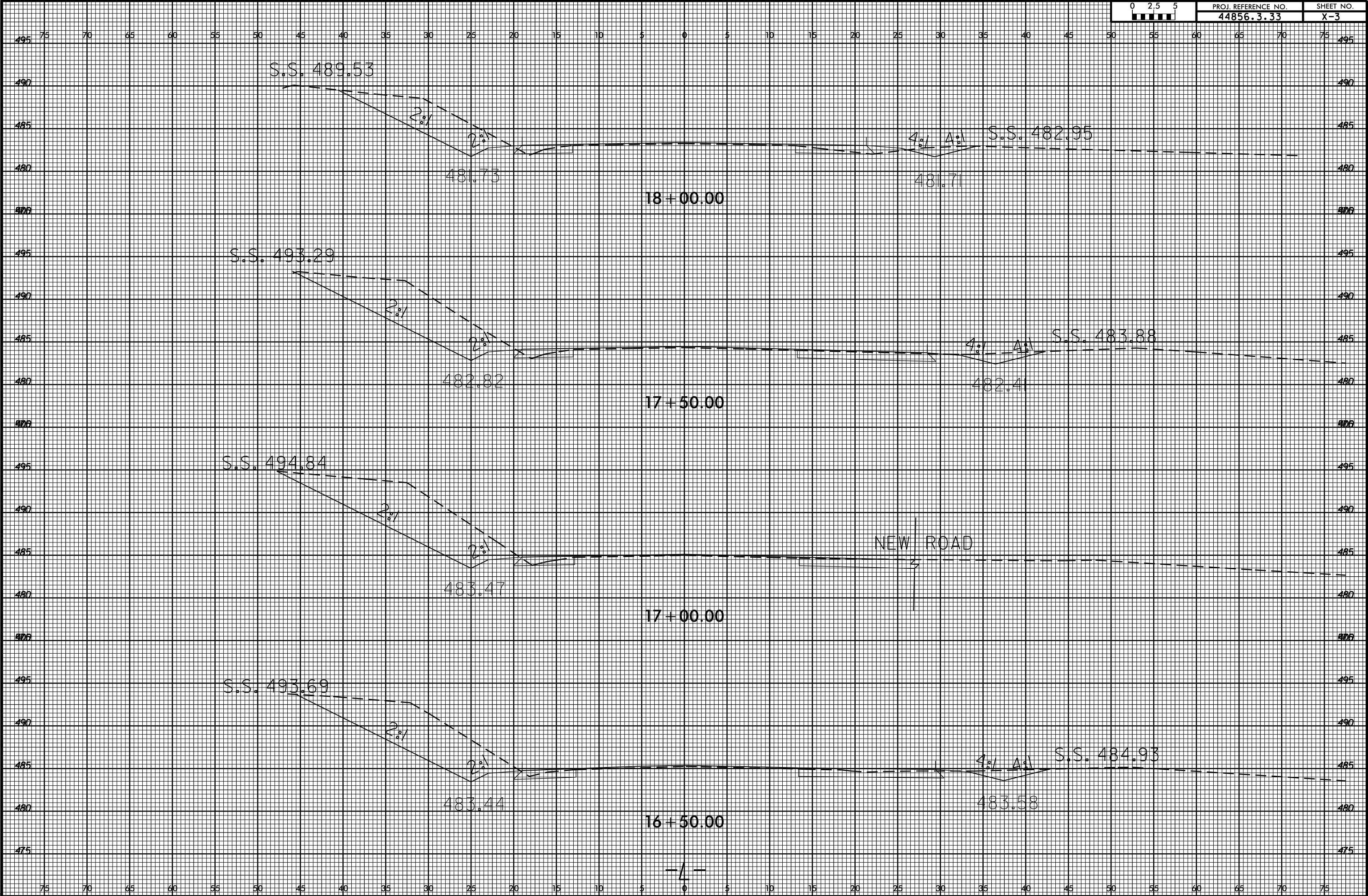
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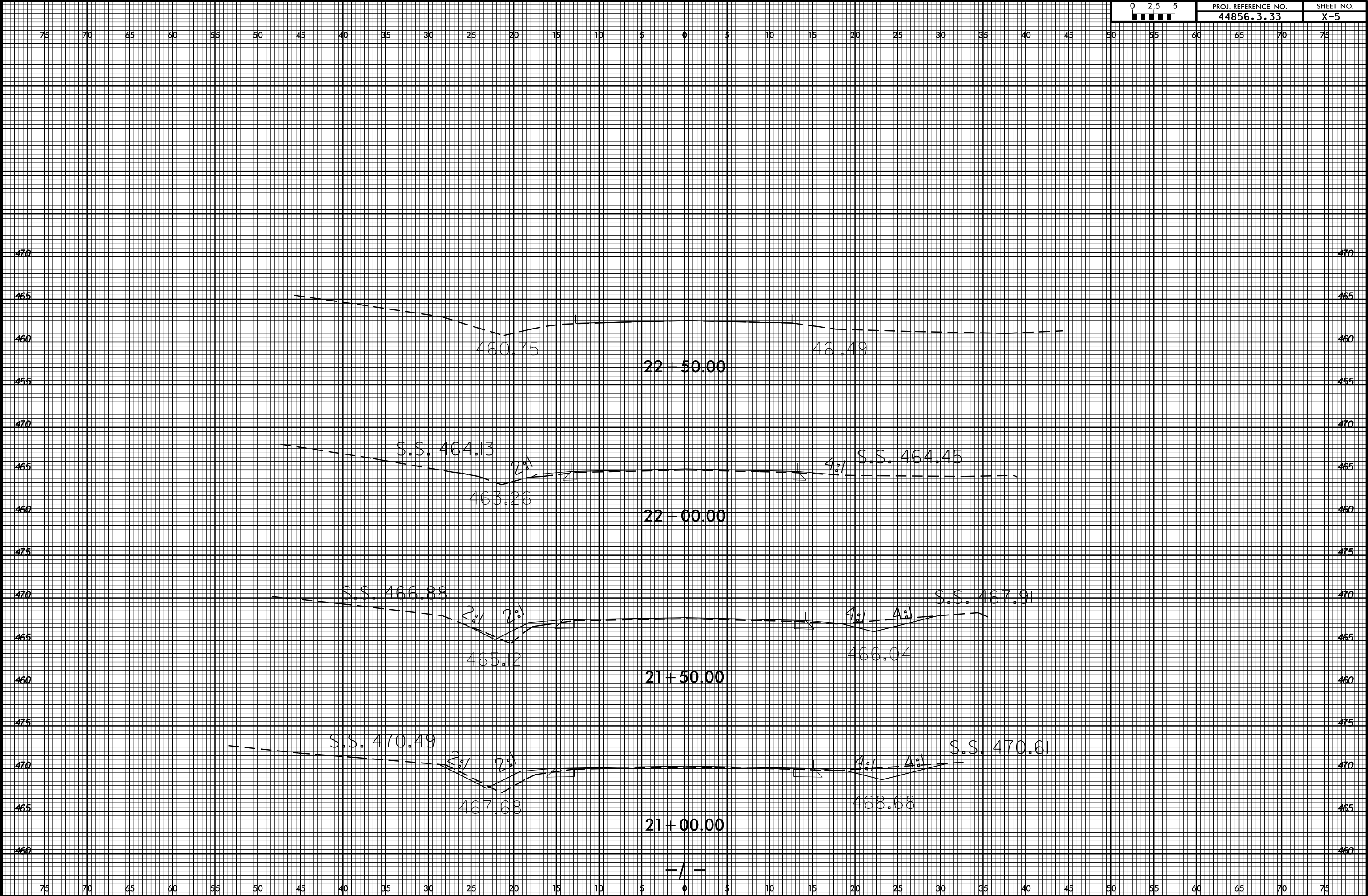
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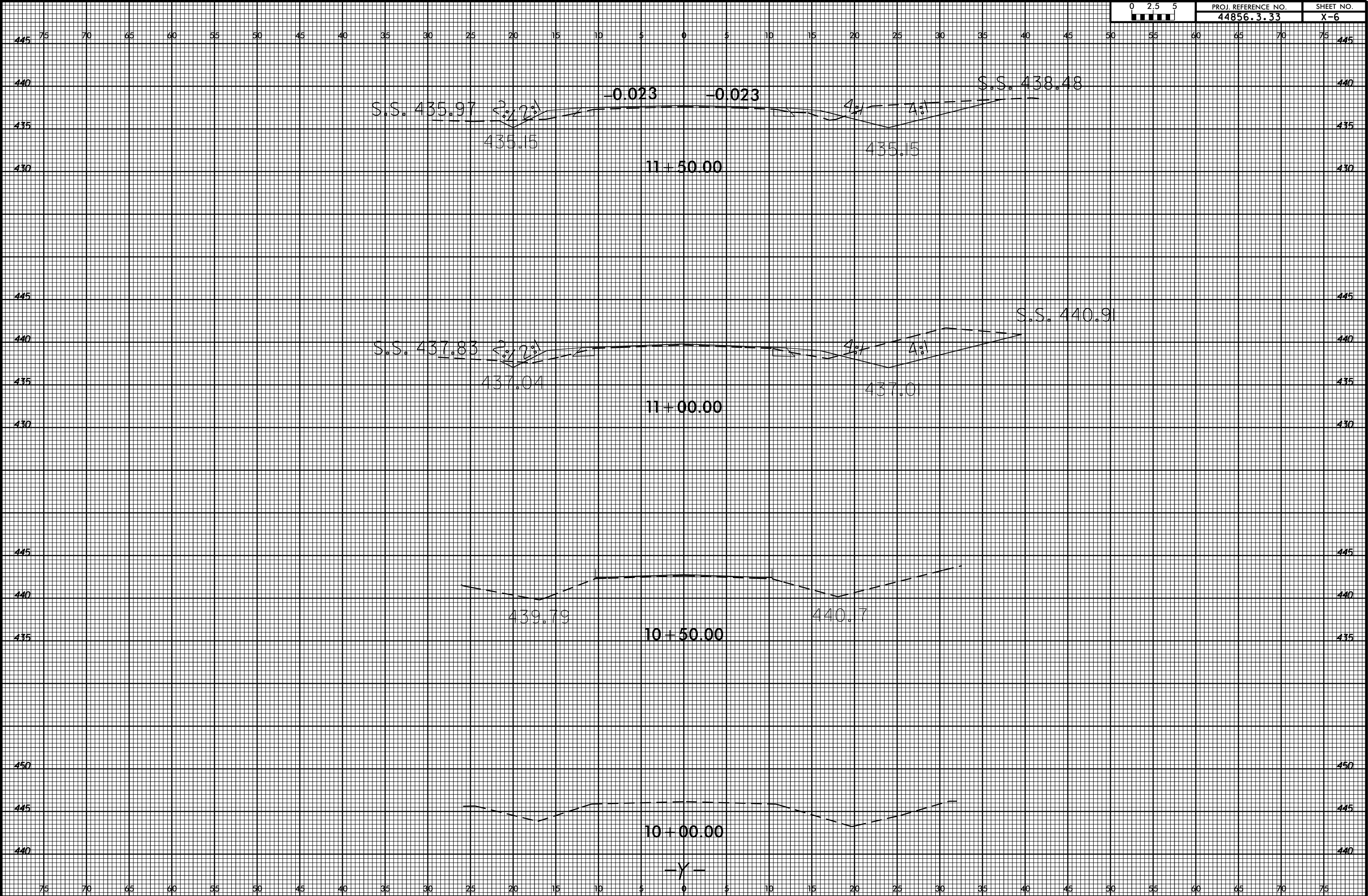
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6/23/16

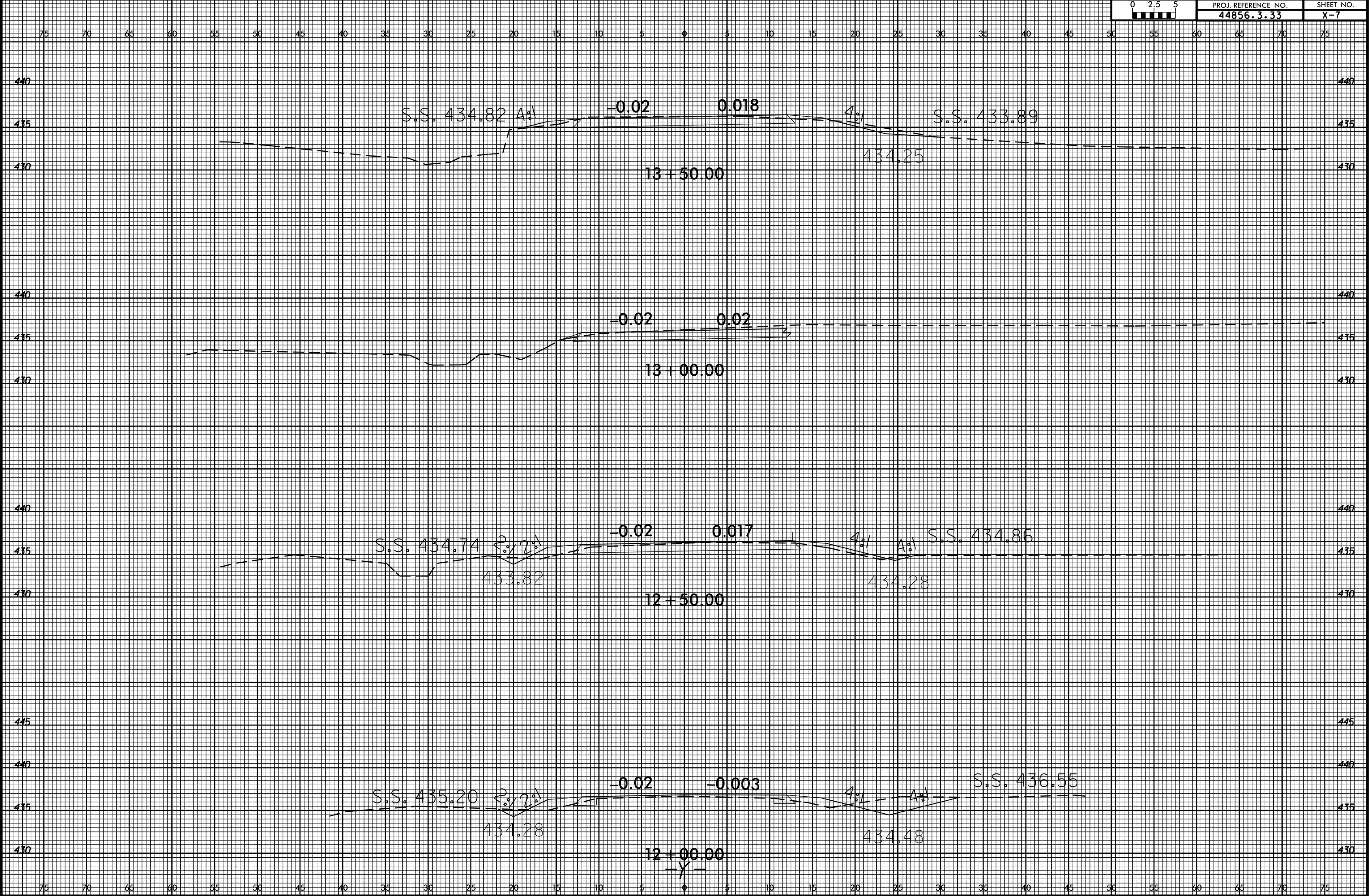
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icbrooks





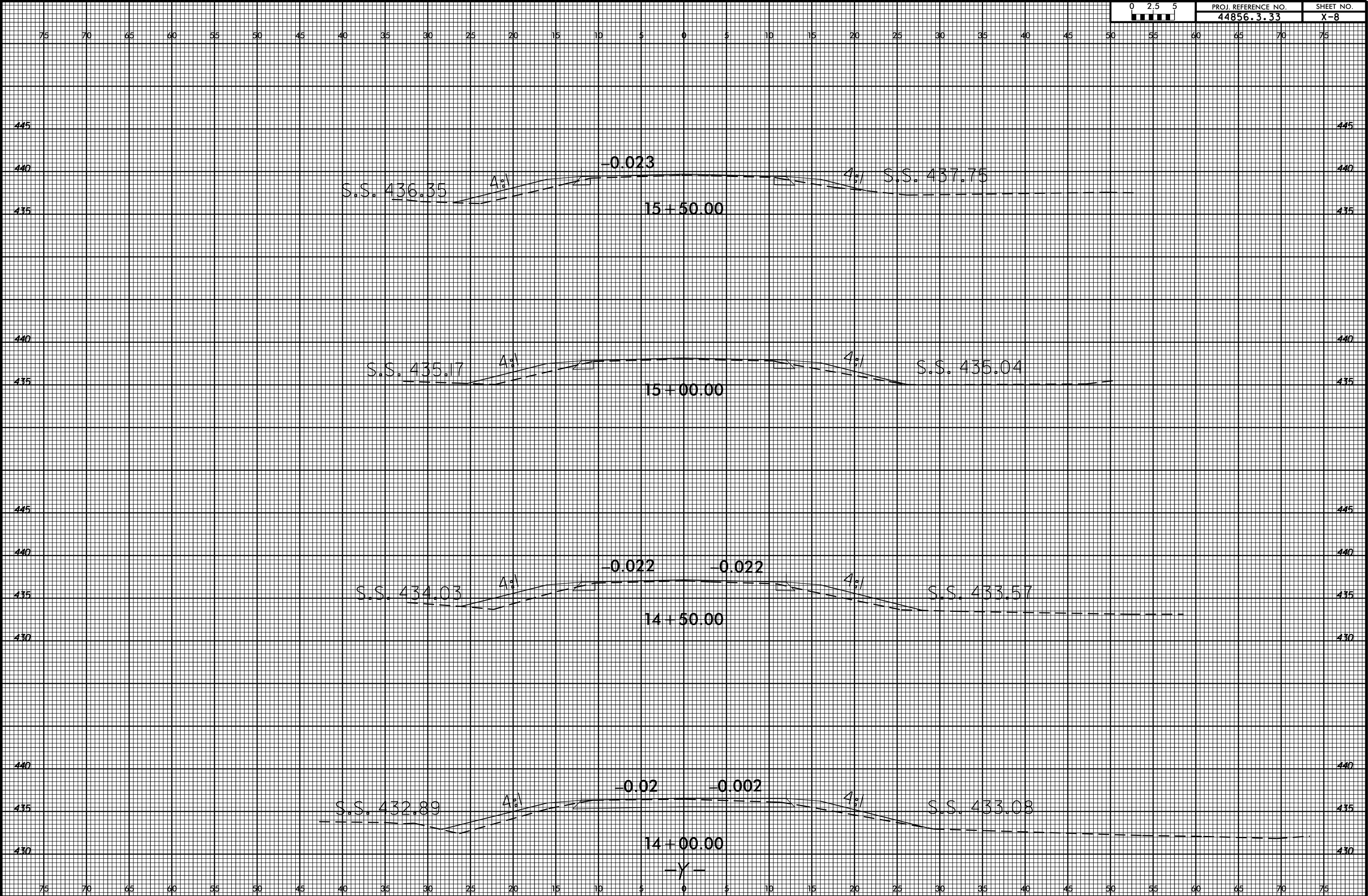
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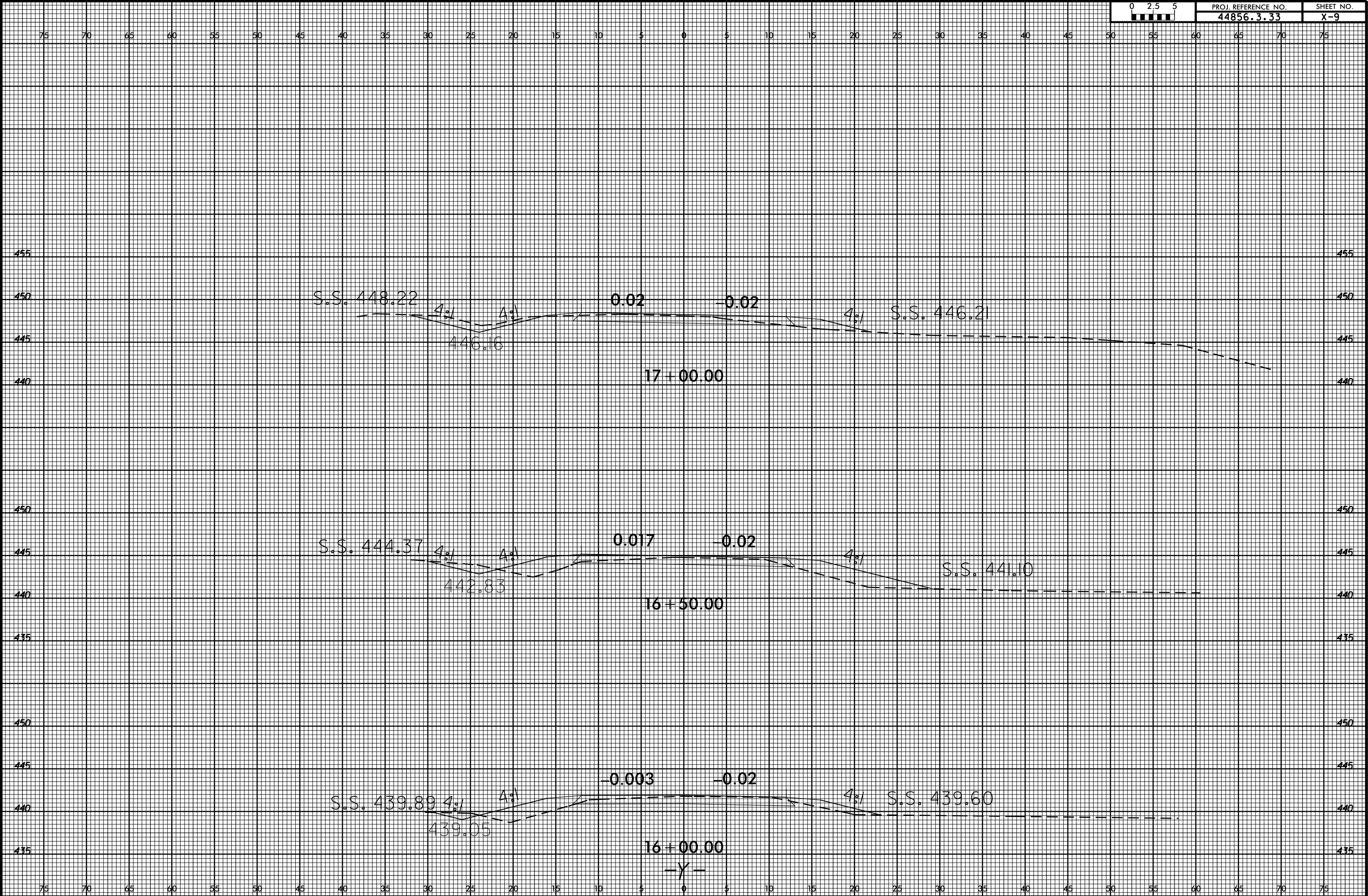
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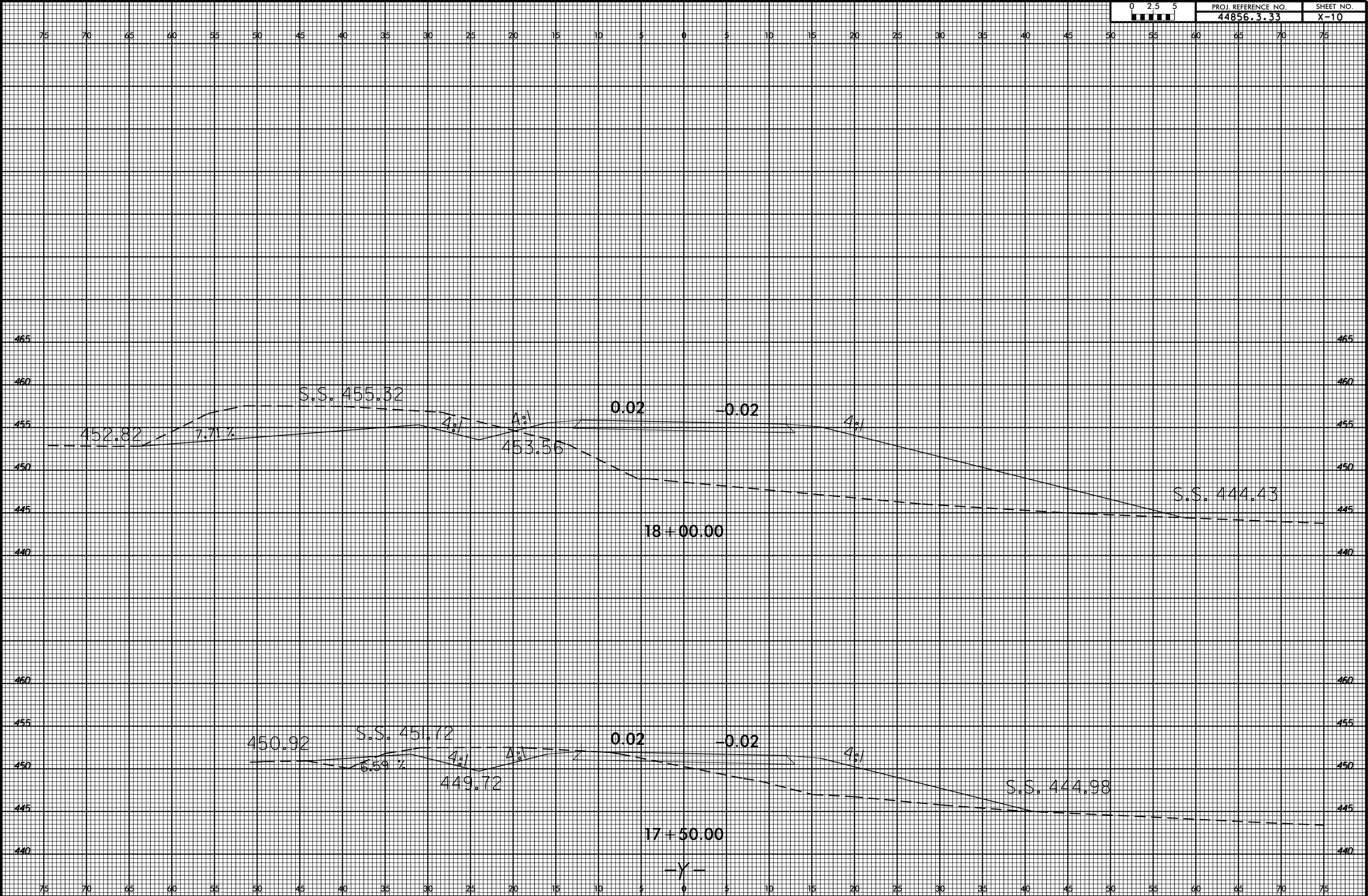
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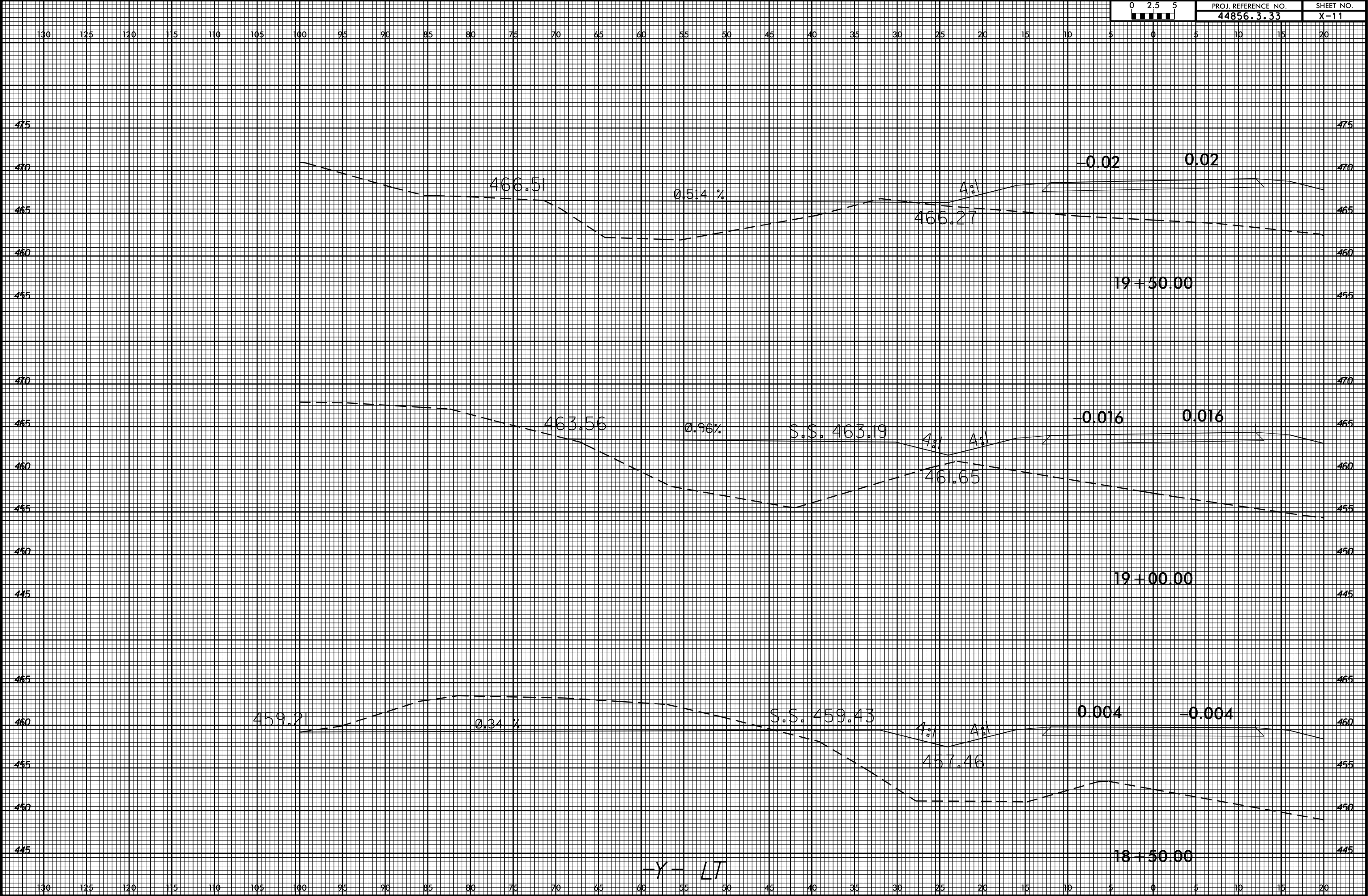
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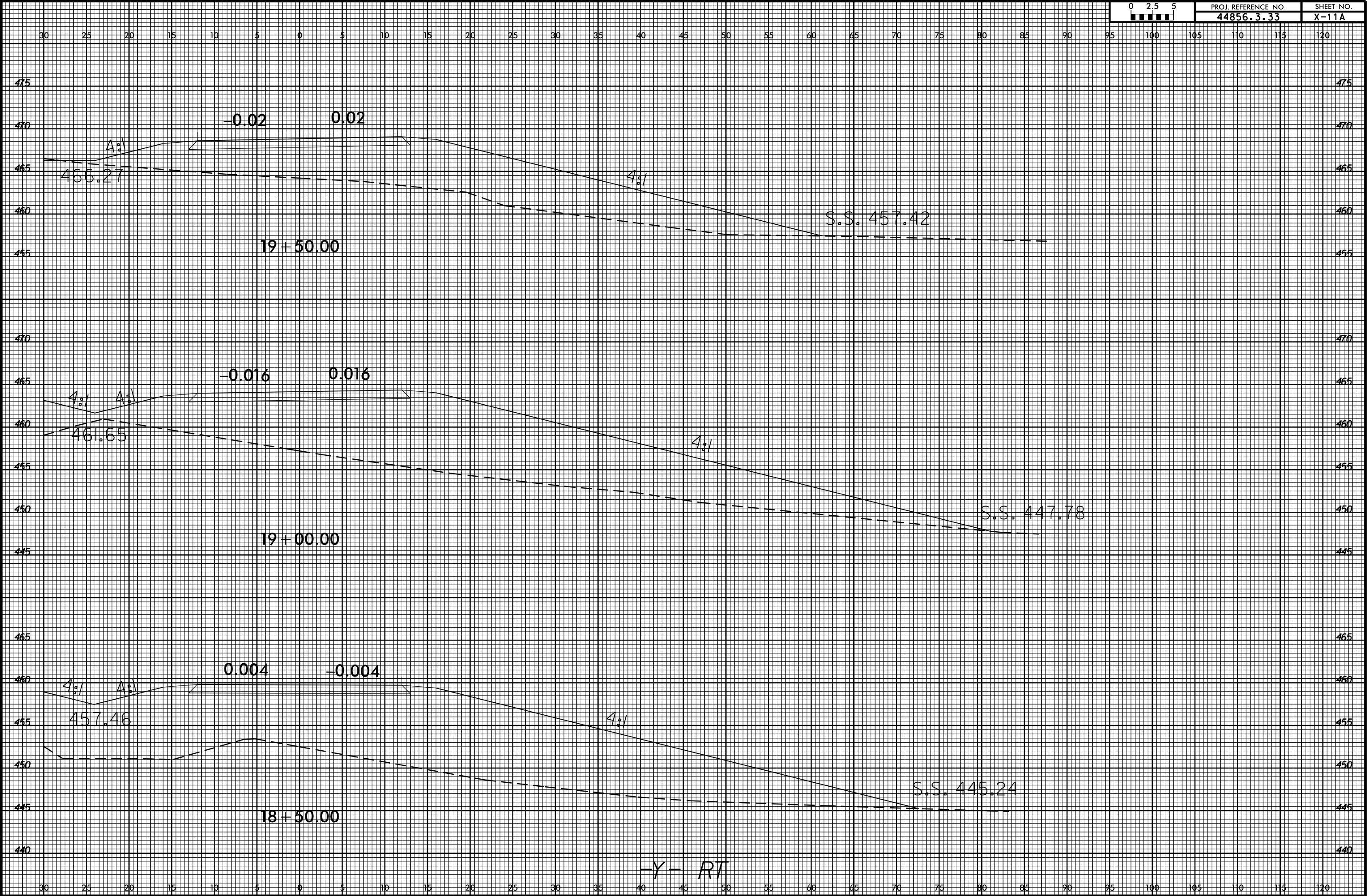


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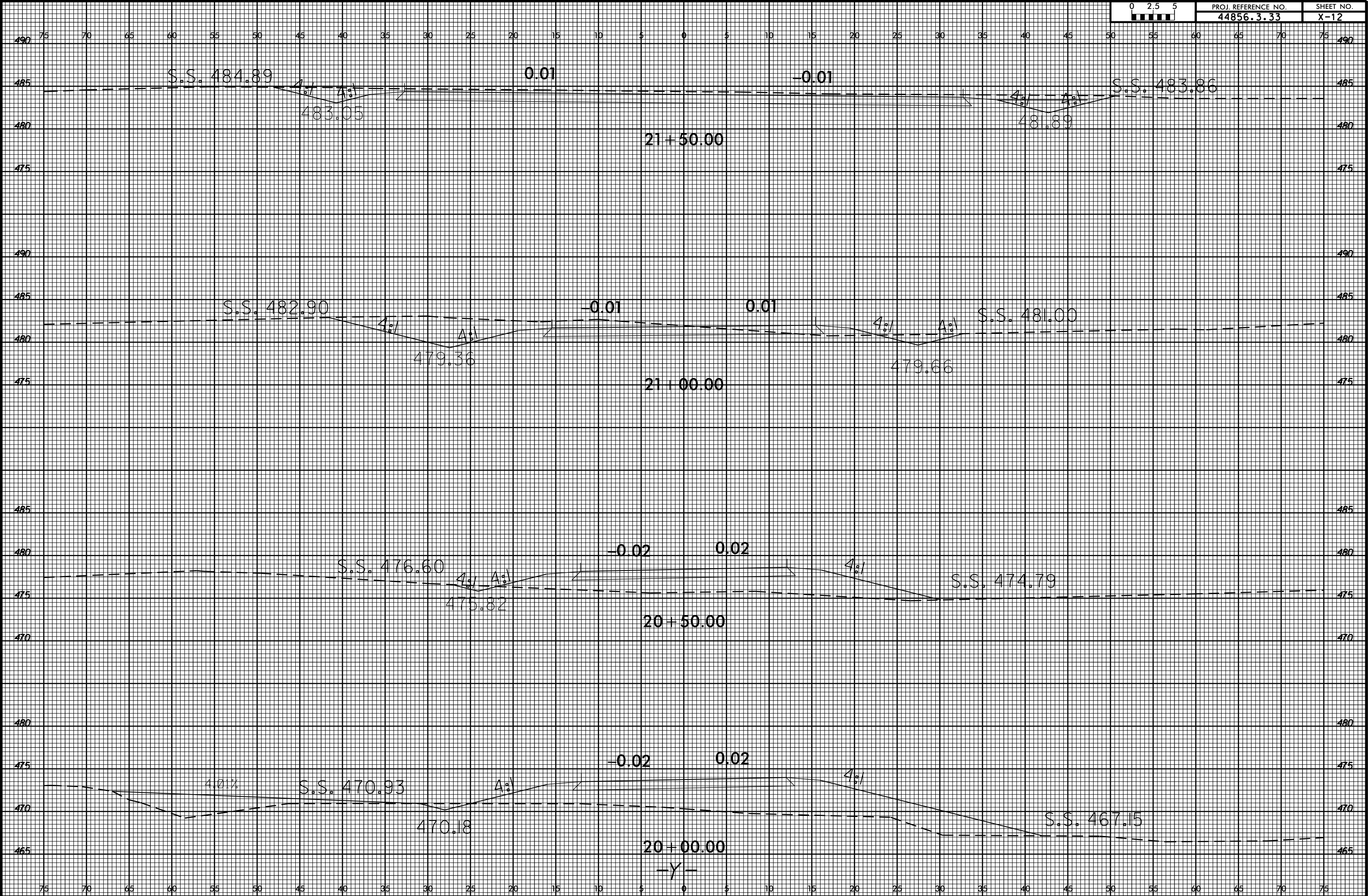


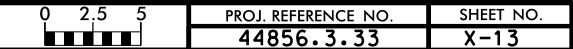
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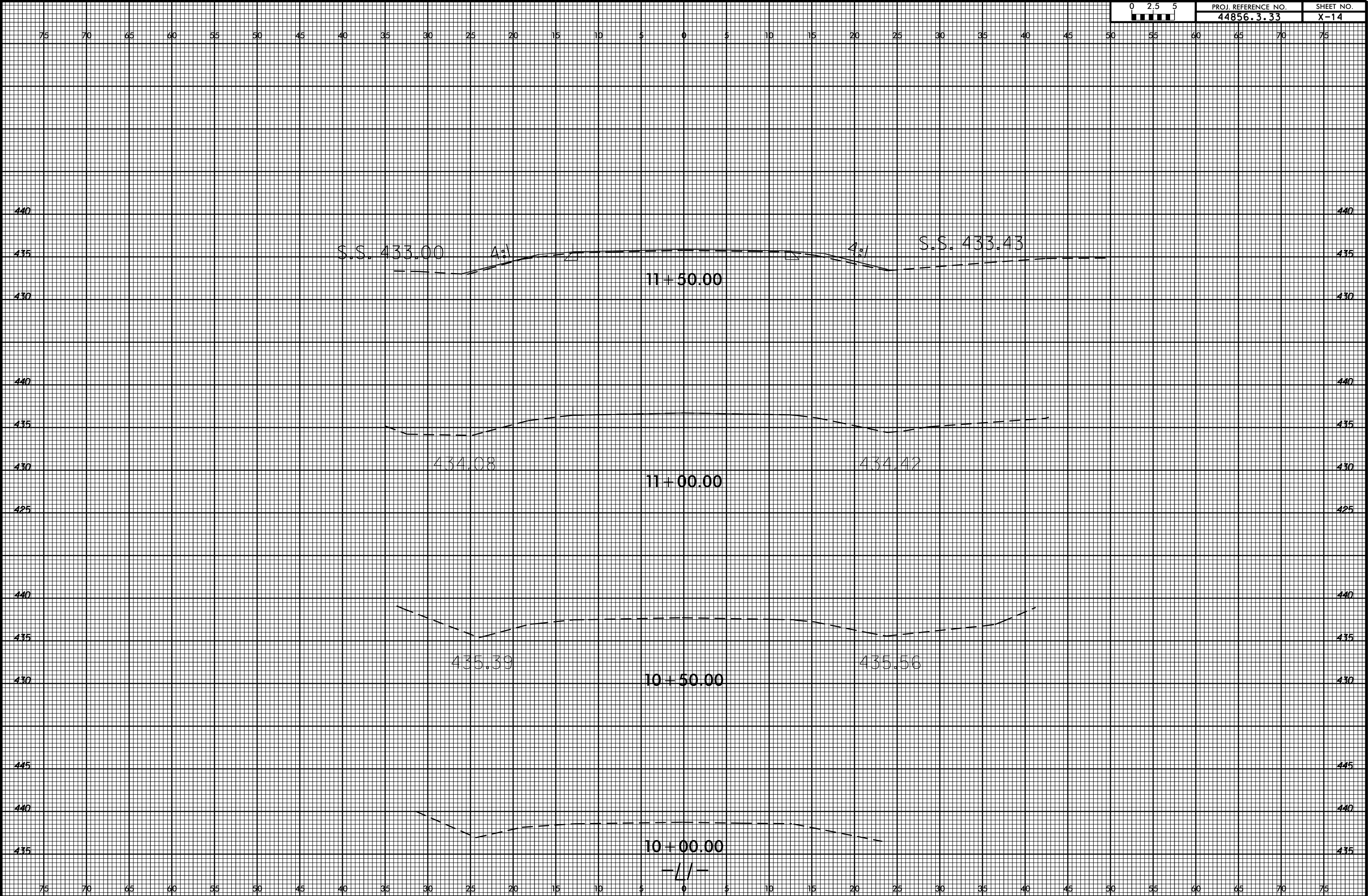
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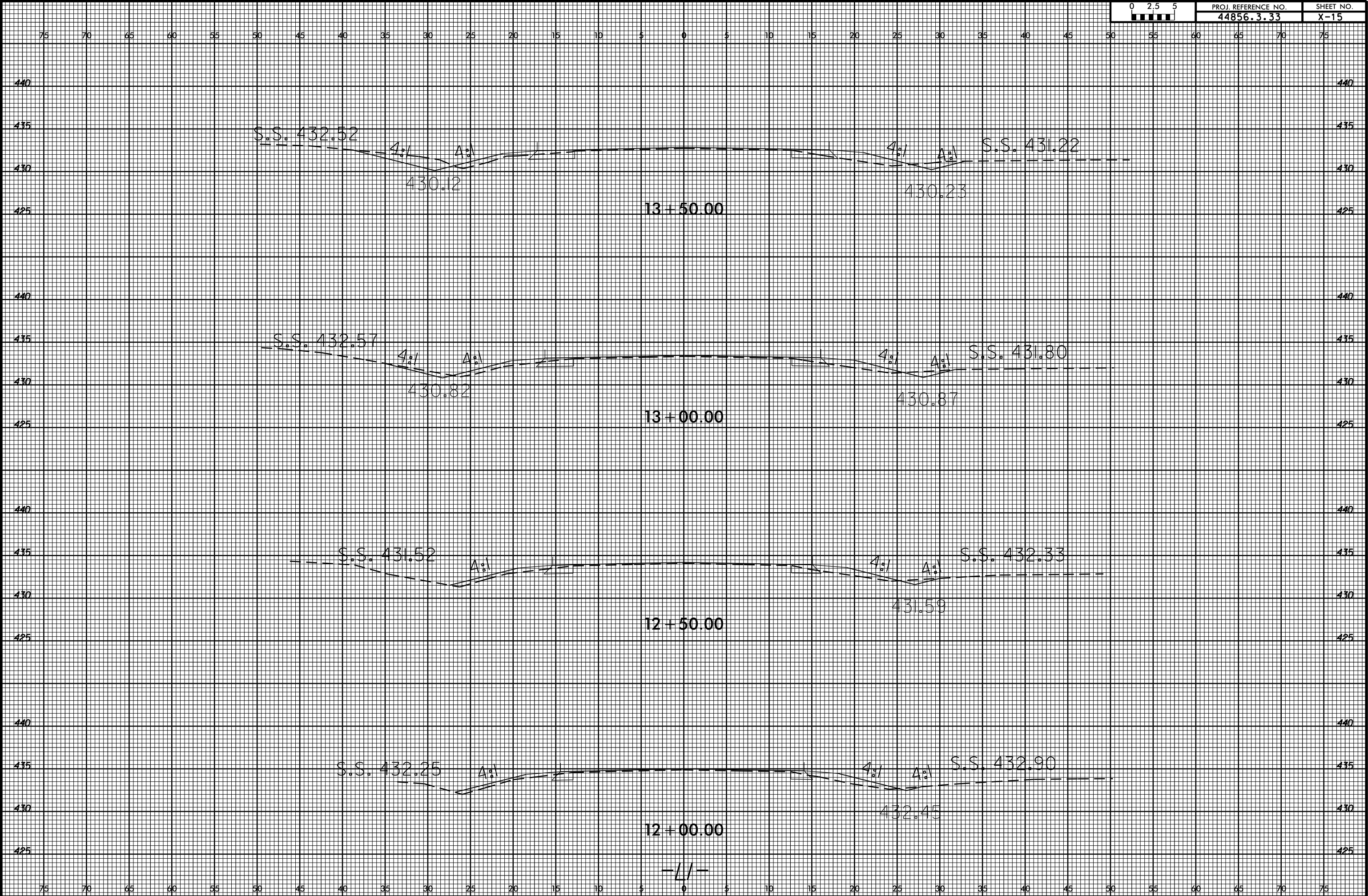


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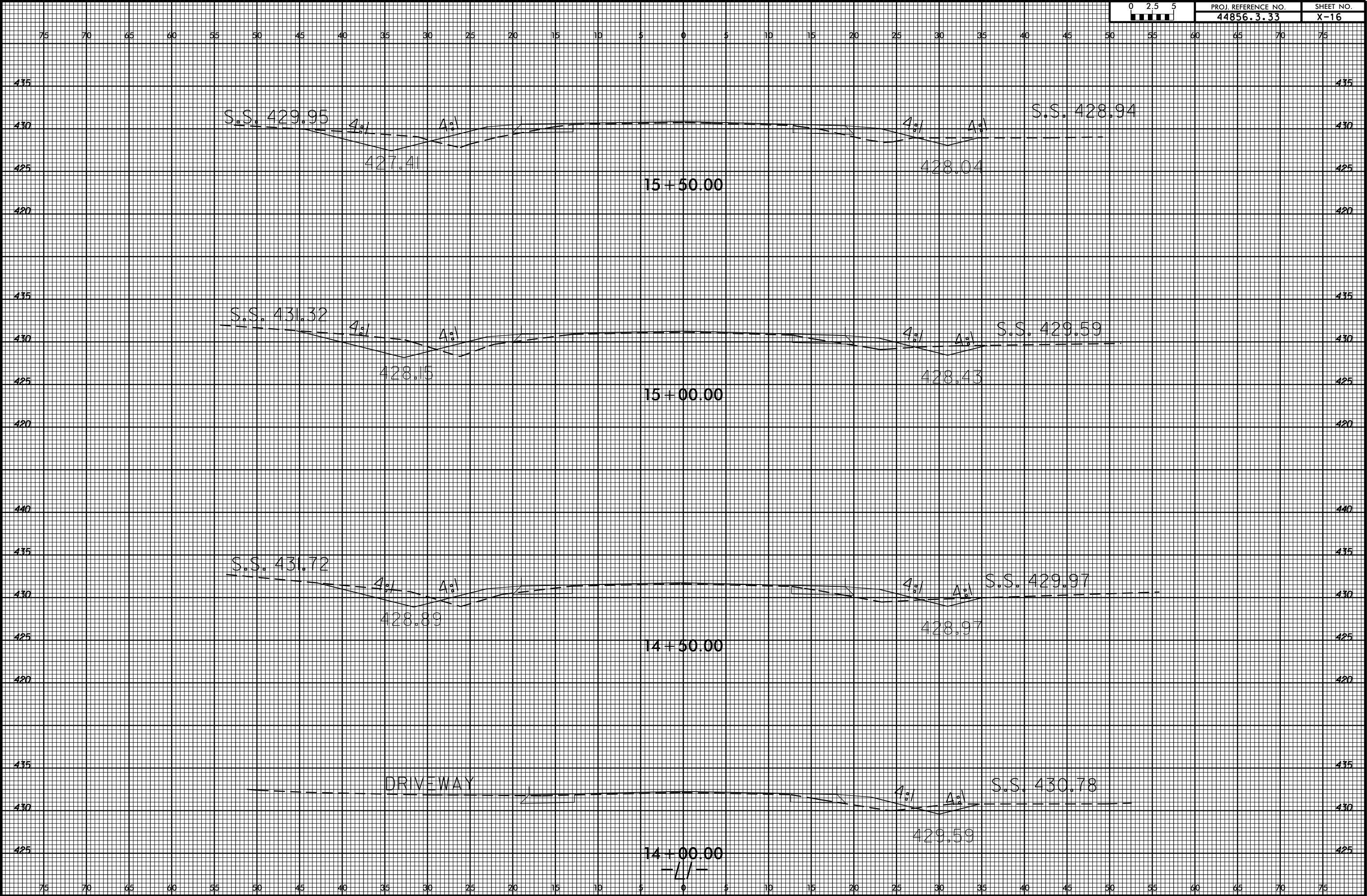


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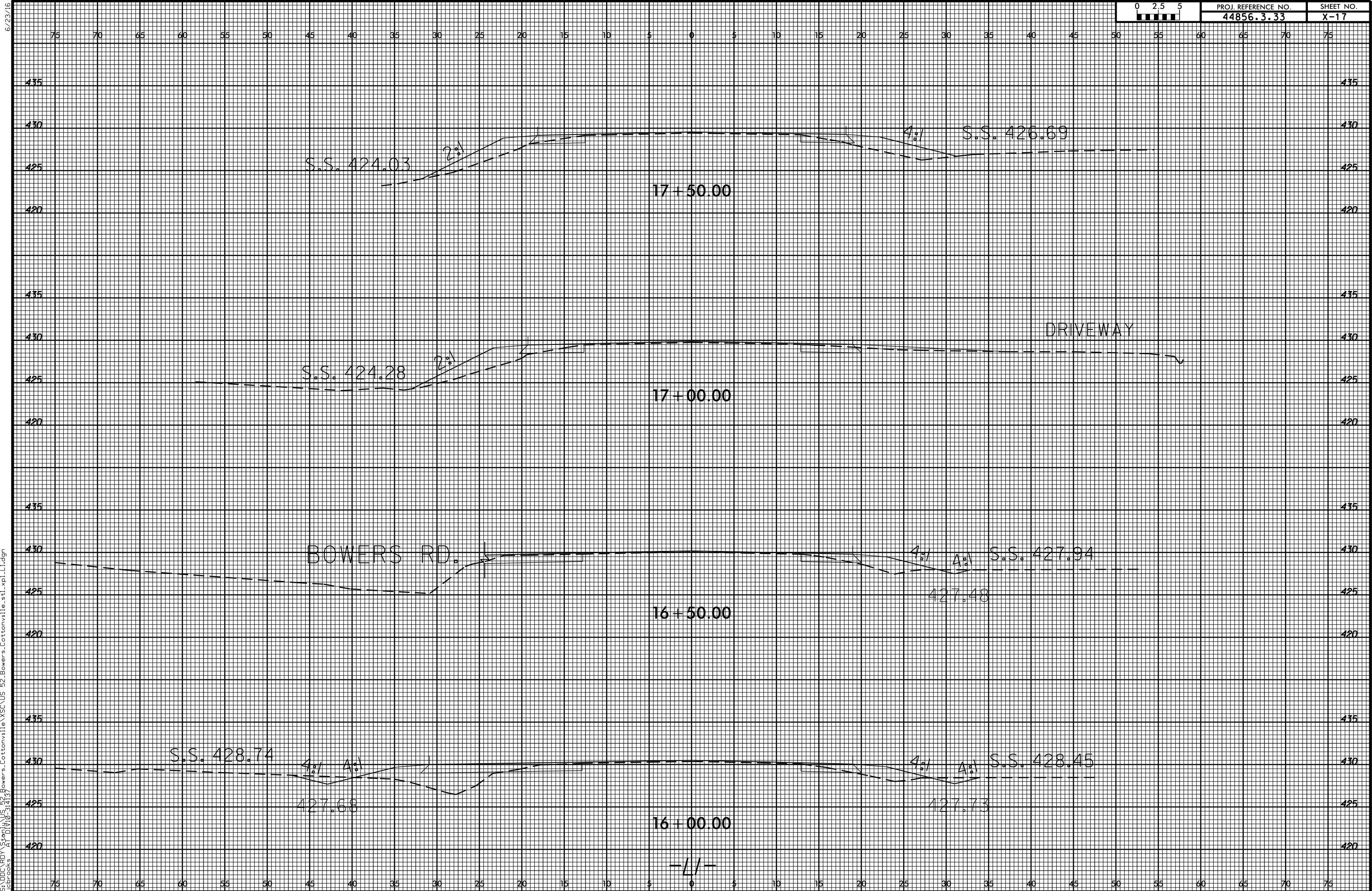
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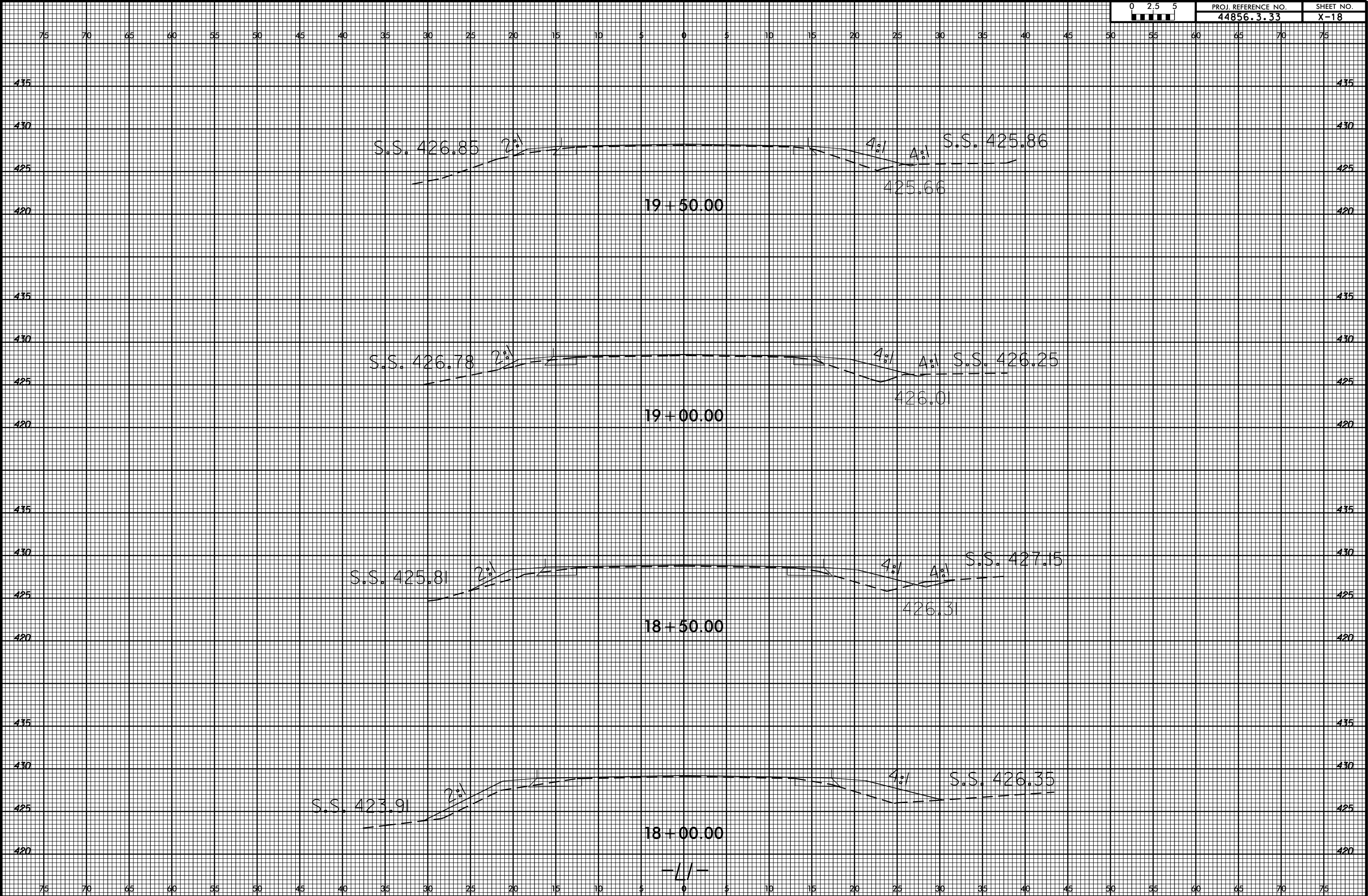
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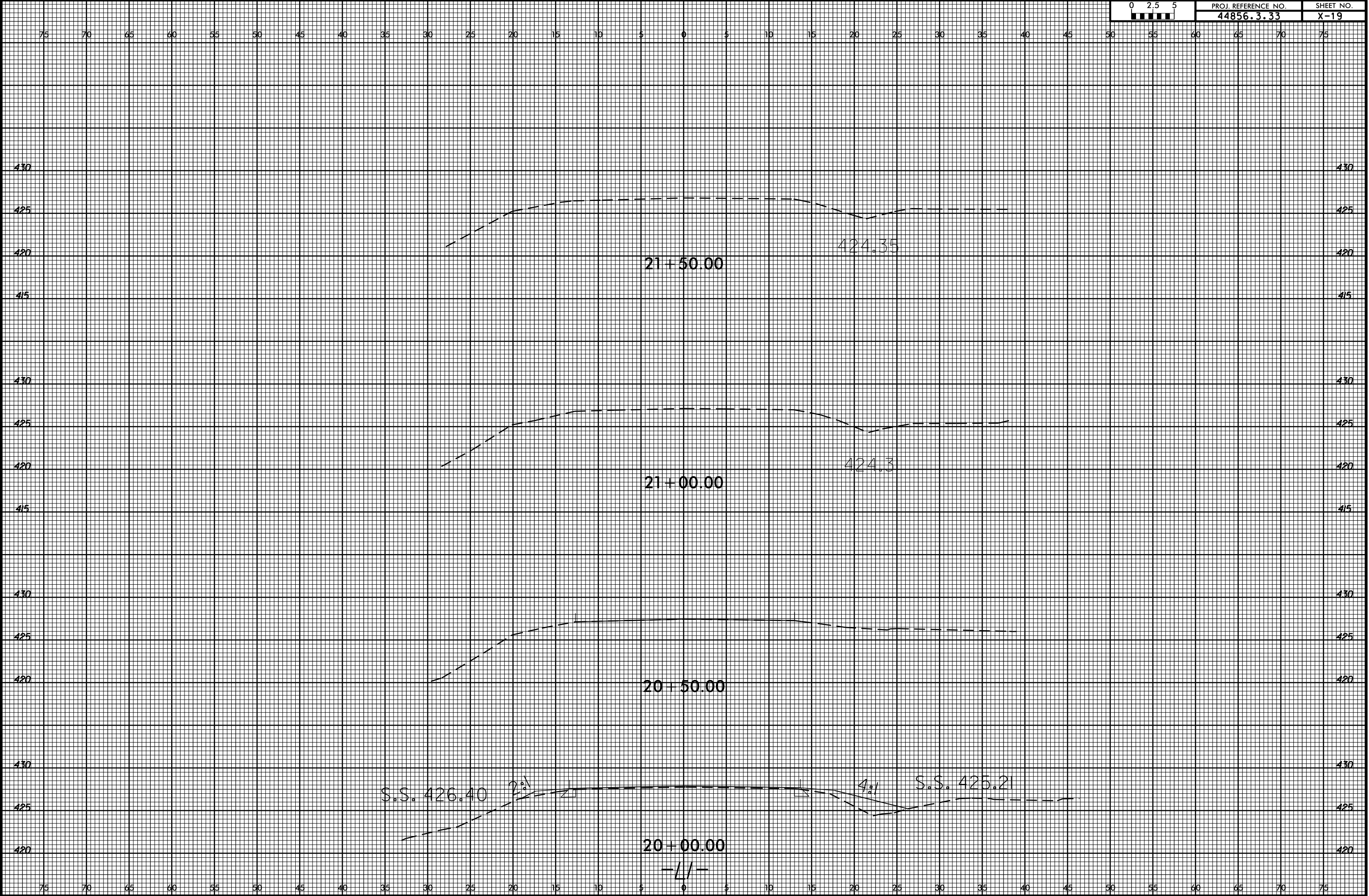
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