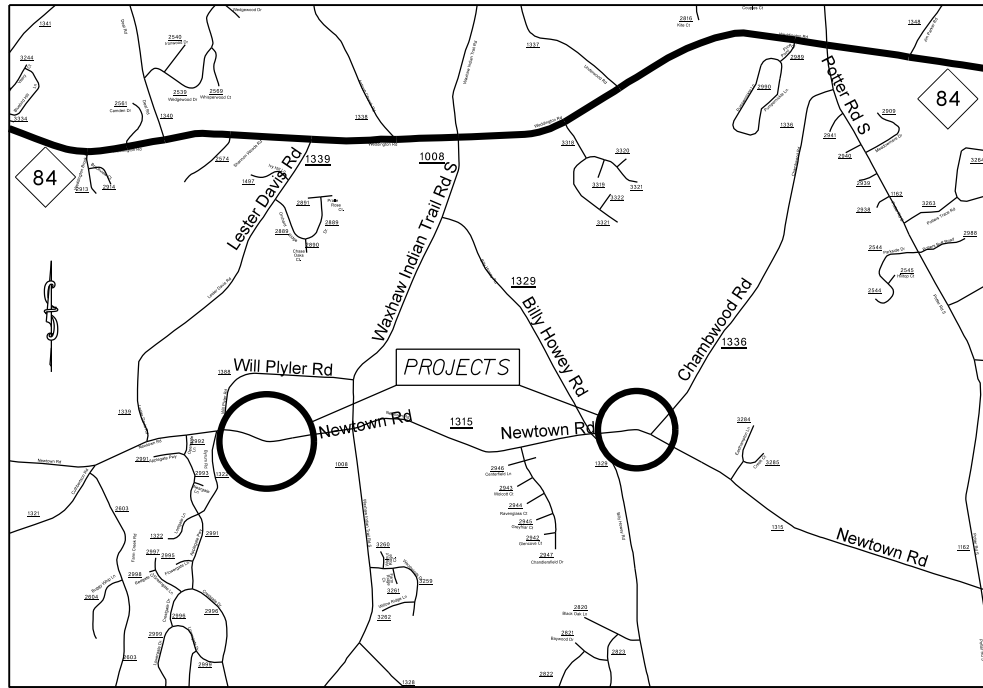


**TIP: W-5601CS**

**PROJECT: 50138.3.98**



VICINITY MAP NOT TO SCALE

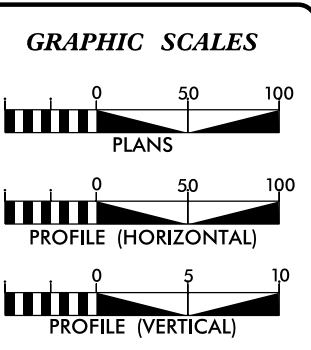
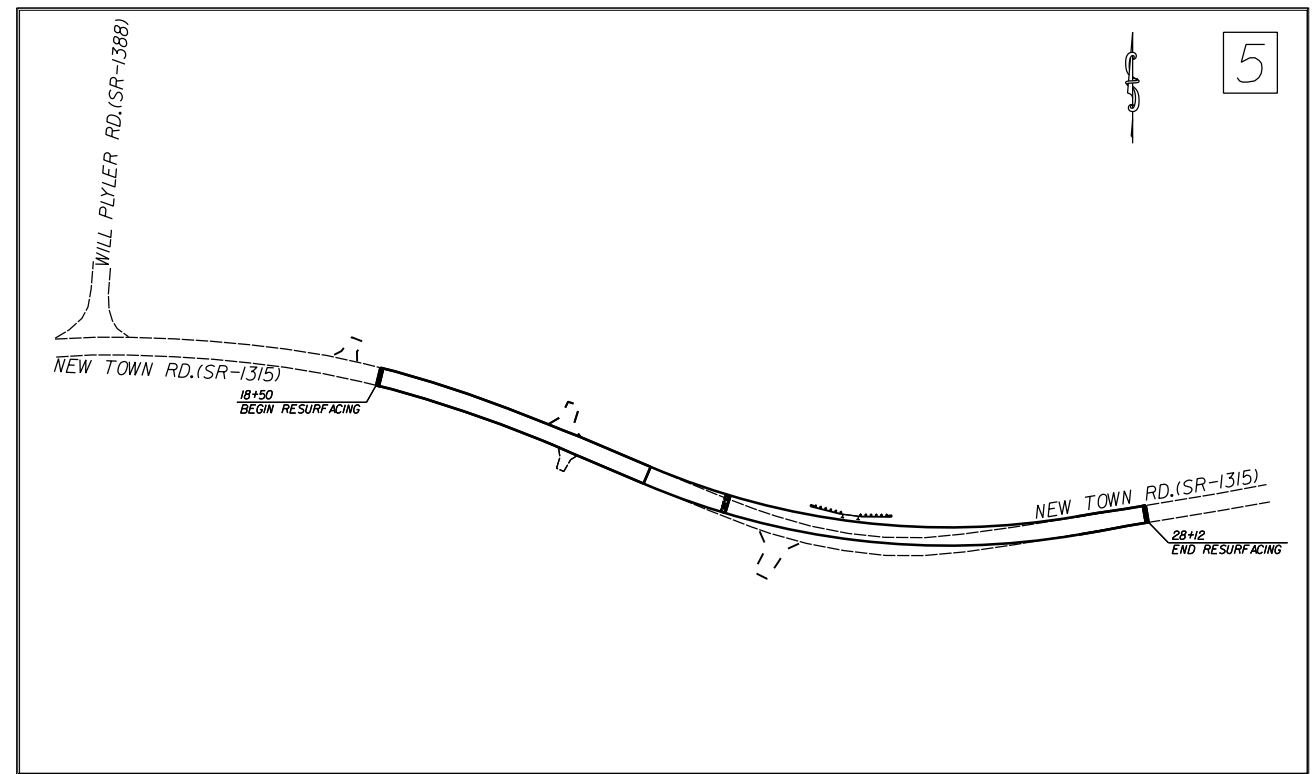
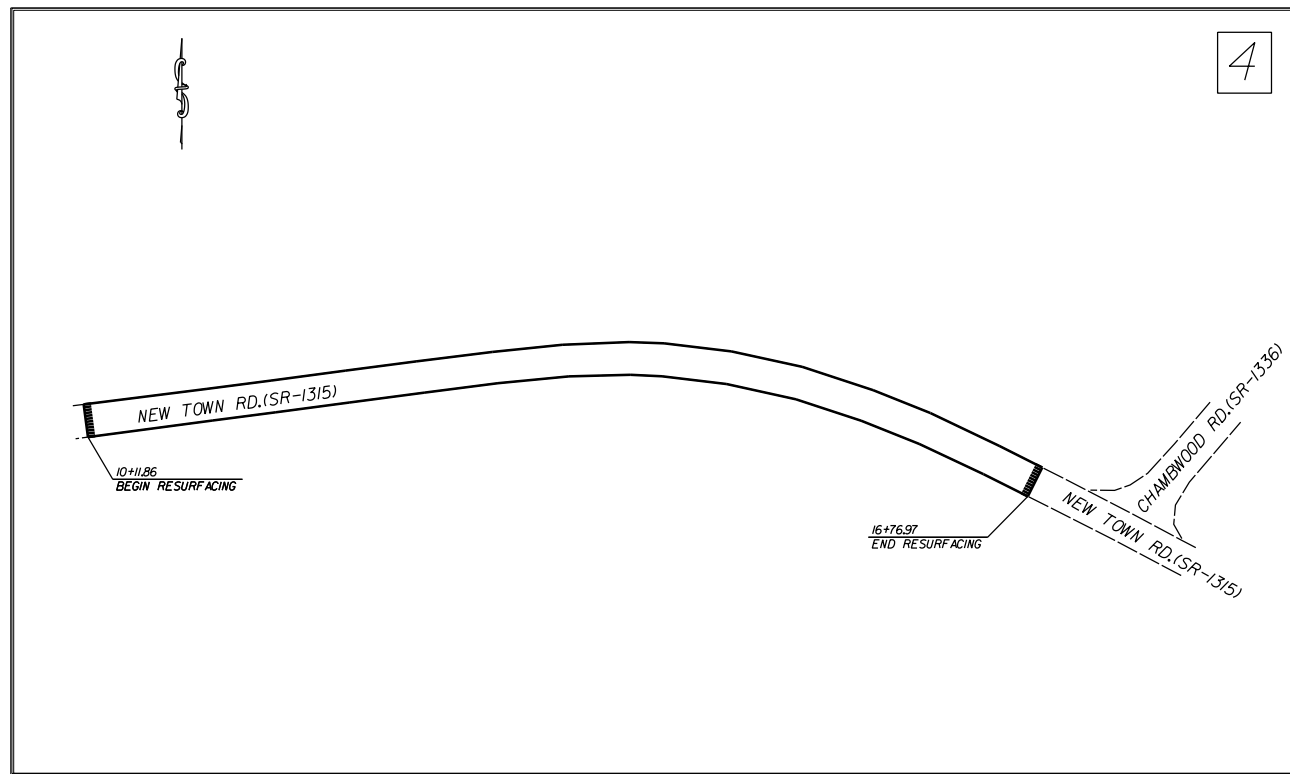
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**UNION COUNTY**

**LOCATION:** NEW TOWN RD. (SR-1315) FROM 340' EAST OF AND TO 1,300' EAST OF WILL PLYLER RD. (SR-1388)  
NEW TOWN RD. (SR-1315) FROM 740' WEST OF AND TO 75' WEST OF CHAMBWOOD RD. (SR-1336)

**TYPE OF WORK:** GRADING, PAVEMENT REMOVAL, PAVING, WATER LINE RELOCATION  
& THERMOPLASTIC PAVEMENT MARKINGS.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.98	HSIP-1315(016)	P.E.	
50138.2.98	HSIP-1315(016)	RW	
50138.3.98	HSIP-1315(016)	CONST.	

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 50138.3.98	=	0.31	MILES
TOTAL LENGTH OF STATE PROJECT 50138.3.98	=	0.31	MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
DIVISION TEN  
DIVISION DESIGN / CONSTRUCT UNIT

---

2012 STANDARD SPECIFICATIONS

<b>RIGHT OF WAY DATE:</b> _____	<b>RANDY BOWERS</b> PROJECT ENGINEER
<b>LETTING DATE:</b> AUGUST 17, 2016	<b>DONALD HARWARD</b> PROJECT DESIGN ENGINEER

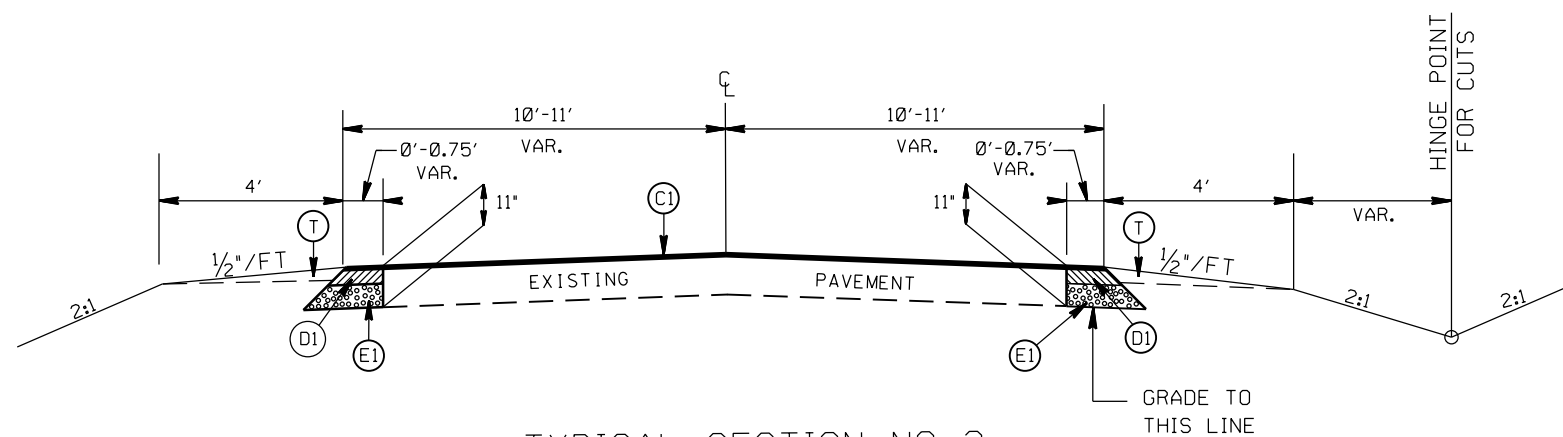


DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

DocuSigned by:  
*Randy Bowers* 7/21/2016

52A4A66079864B2...  
APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_  
DDC ENGINEER

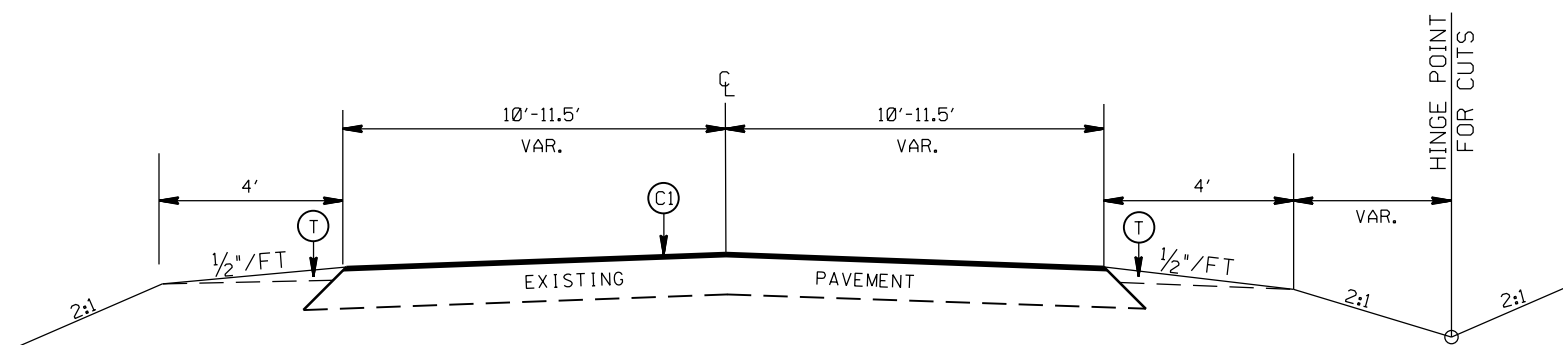
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	2	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 2  
 STA. 20+79.00 TO 21+04.00 -LI-  
 STA. 27+52.00 TO 27+87.00 -LI-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE
(E1)	PROP. APPROX. 5 1/2" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(T)	EARTH MATERIAL



TYPICAL SECTION NO. 1  
 STA. 10+11.86 TO 16+76.97 -L-  
 STA. 18+50.00 TO 20+79.00 -LI-  
 STA. 27+87.00 TO 28+12.00 -LI-

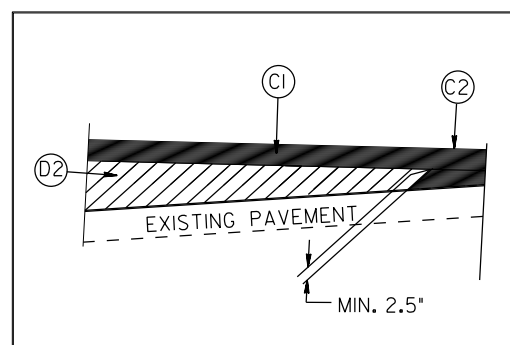
HILLCUT AND REALIGNMENT  
 ON NEW TOWN RD. (SR-1315)

SCALE	-NA-
DATE	11/15
DWG. BY	DLS
DESIGN BY	JDH
APPROVED	RWB

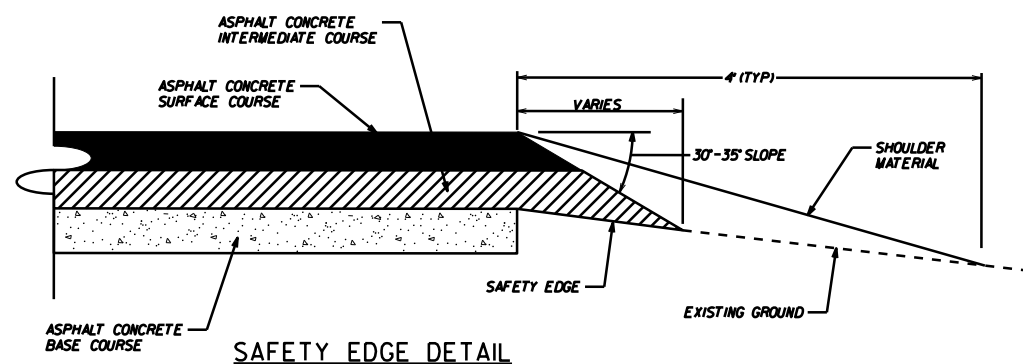


REVISIONS	

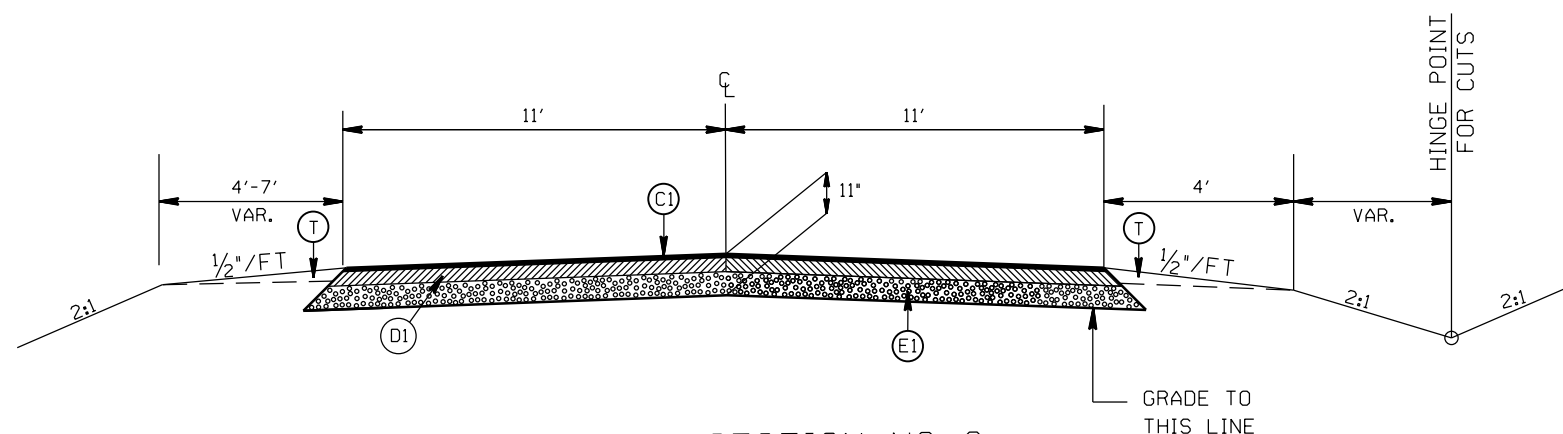
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	2A	
F.A. PROJECT NO.			



WEDGING DETAIL



SAFETY EDGE DETAIL



TYPICAL SECTION NO. 3  
STA. 21+04.00 TO 27+52.00 -LI-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE
(E1)	PROP. APPROX. 5½" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(T)	EARTH MATERIAL

HILLCUT AND REALIGNMENT  
ON NEW TOWN RD. (SR-1315)

SCALE	-NA-
DATE	11/15
DWG. BY	DLS
DESIGN BY	JDH
APPROVED	RWB



REVISIONS	

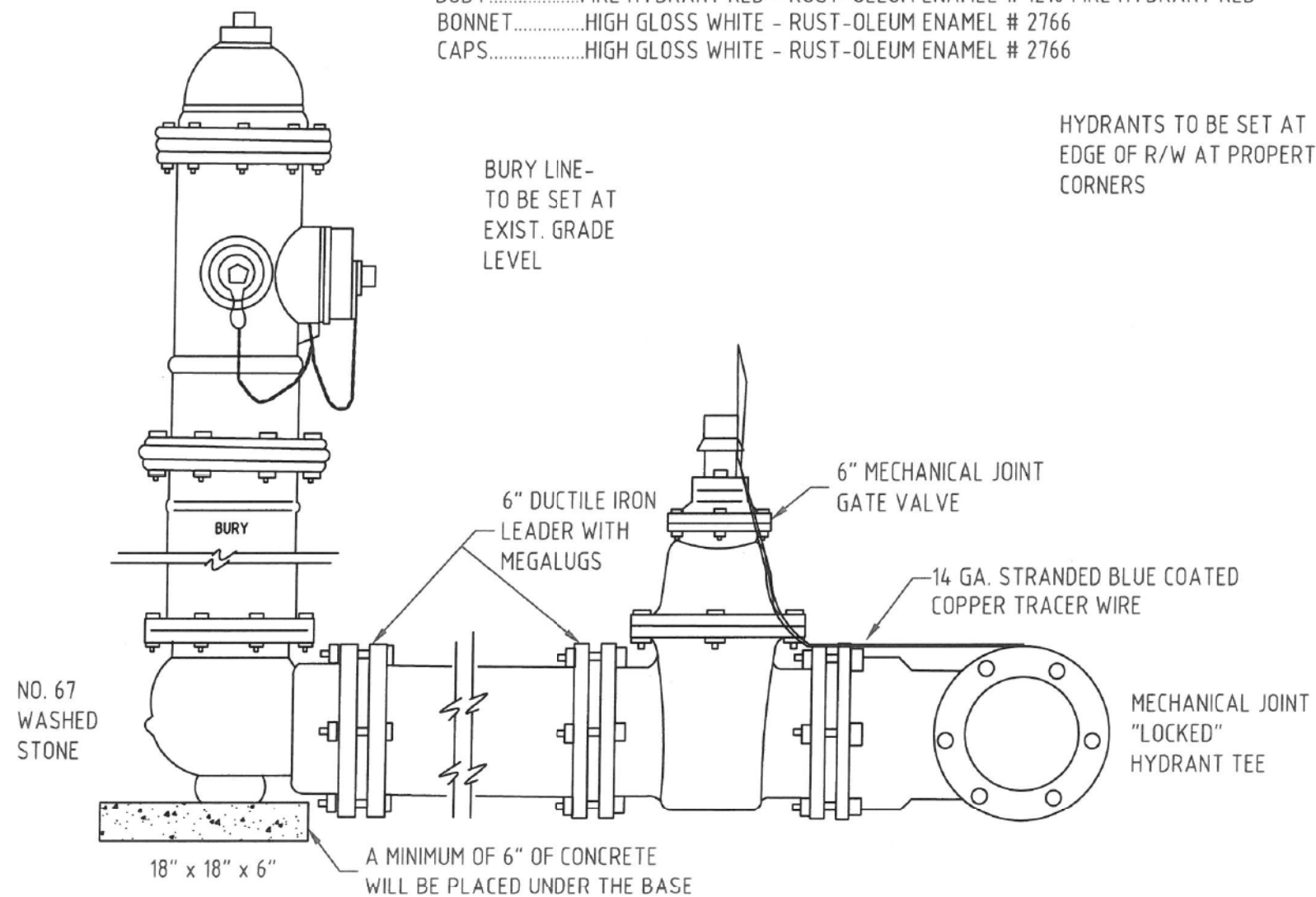
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	2B	
F.A. PROJECT NO.			

PAINT COLORS

BODY.....FIRE HYDRANT RED - RUST-OLEUM ENAMEL # 1210 FIRE HYDRANT RED  
 BONNET.....HIGH GLOSS WHITE - RUST-OLEUM ENAMEL # 2766  
 CAPS.....HIGH GLOSS WHITE - RUST-OLEUM ENAMEL # 2766

HYDRANTS TO BE SET AT  
 EDGE OF R/W AT PROPERTY  
 CORNERS

BURY LINE-  
 TO BE SET AT  
 EXIST. GRADE  
 LEVEL



UNION COUNTY PUBLIC WORKS DEPARTMENT  
 UNION COUNTY, N.C.

STANDARD DETAIL

FIRE HYDRANT INSTALLATION

SCALE:  
 N.T.S.  
 DATE:  
 1-2-14

3

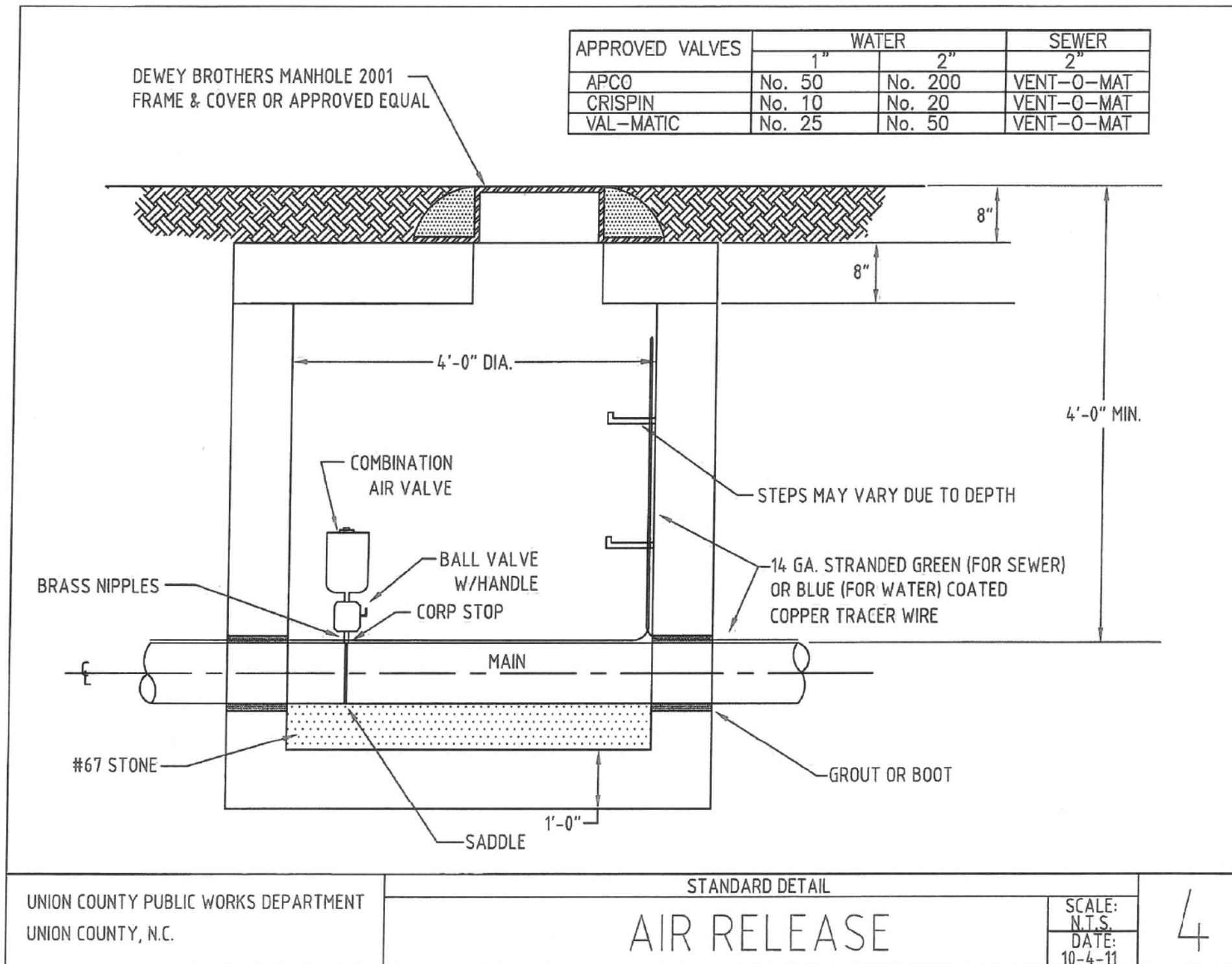
HILLCUT AND REALIGNMENT  
 ON NEW TOWN RD. (SR-1315)

SCALE	-NA-
DATE	3/2016
DWG. BY	
DESIGN BY	
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	2C	
F.A. PROJECT NO.			



UNION COUNTY PUBLIC WORKS DEPARTMENT  
UNION COUNTY, N.C.

STANDARD DETAIL  
**AIR RELEASE**

SCALE:  
N.T.S.  
DATE:  
10-4-11

4

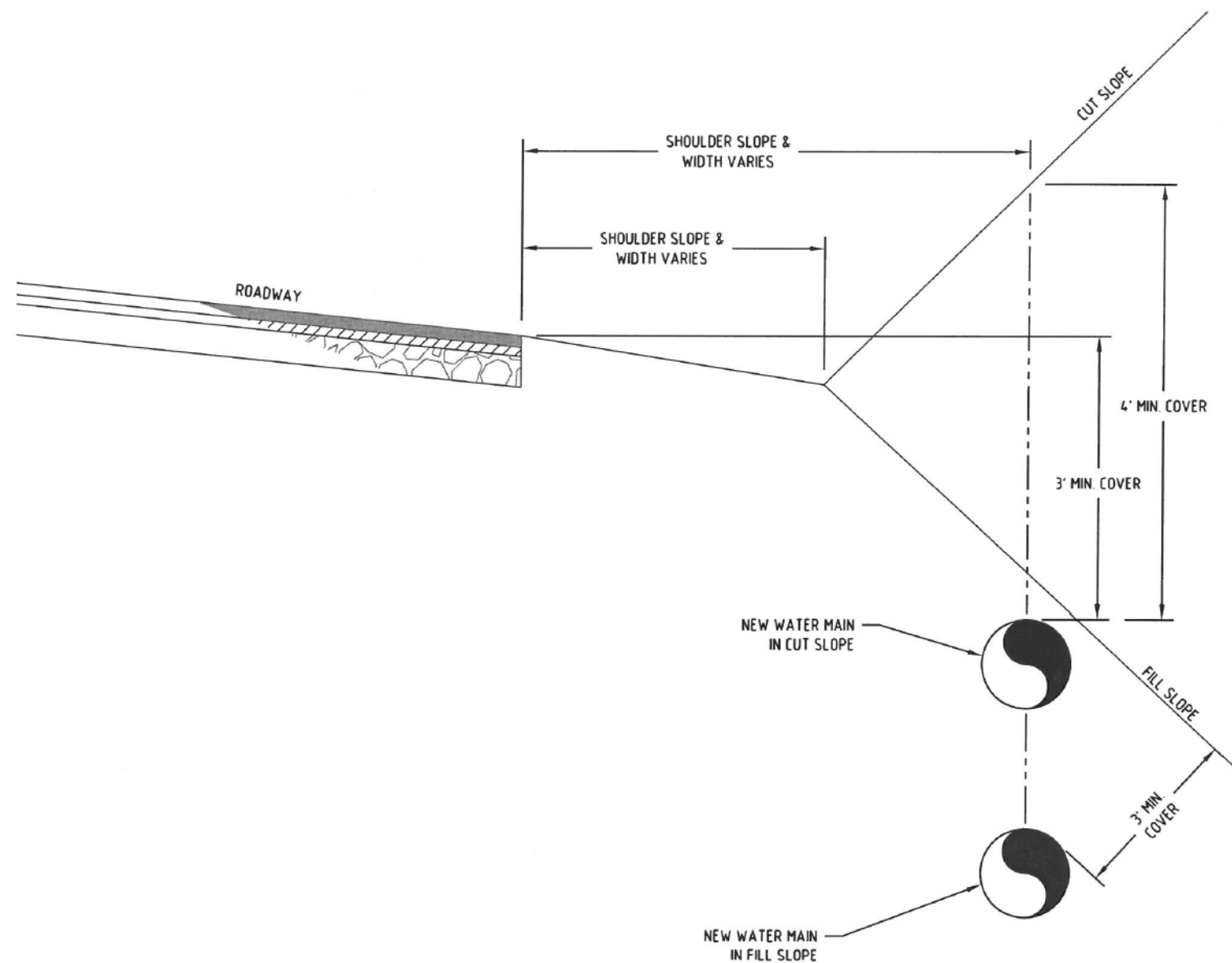
HILLCUT AND REALIGNMENT  
ON NEW TOWN RD. (SR-1315)

SCALE: -NA-  
DATE: 3/2016  
DWG. BY:  
DESIGN BY:  
APPROVED:



REVISIONS


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	2D	
F.A. PROJECT NO.			



## TYPICAL PIPE DEPTH IN CUT & FILL SLOPE CONDITIONS

HILLCUT AND REALIGNMENT  
ON NEW TOWN RD. (SR-1315)

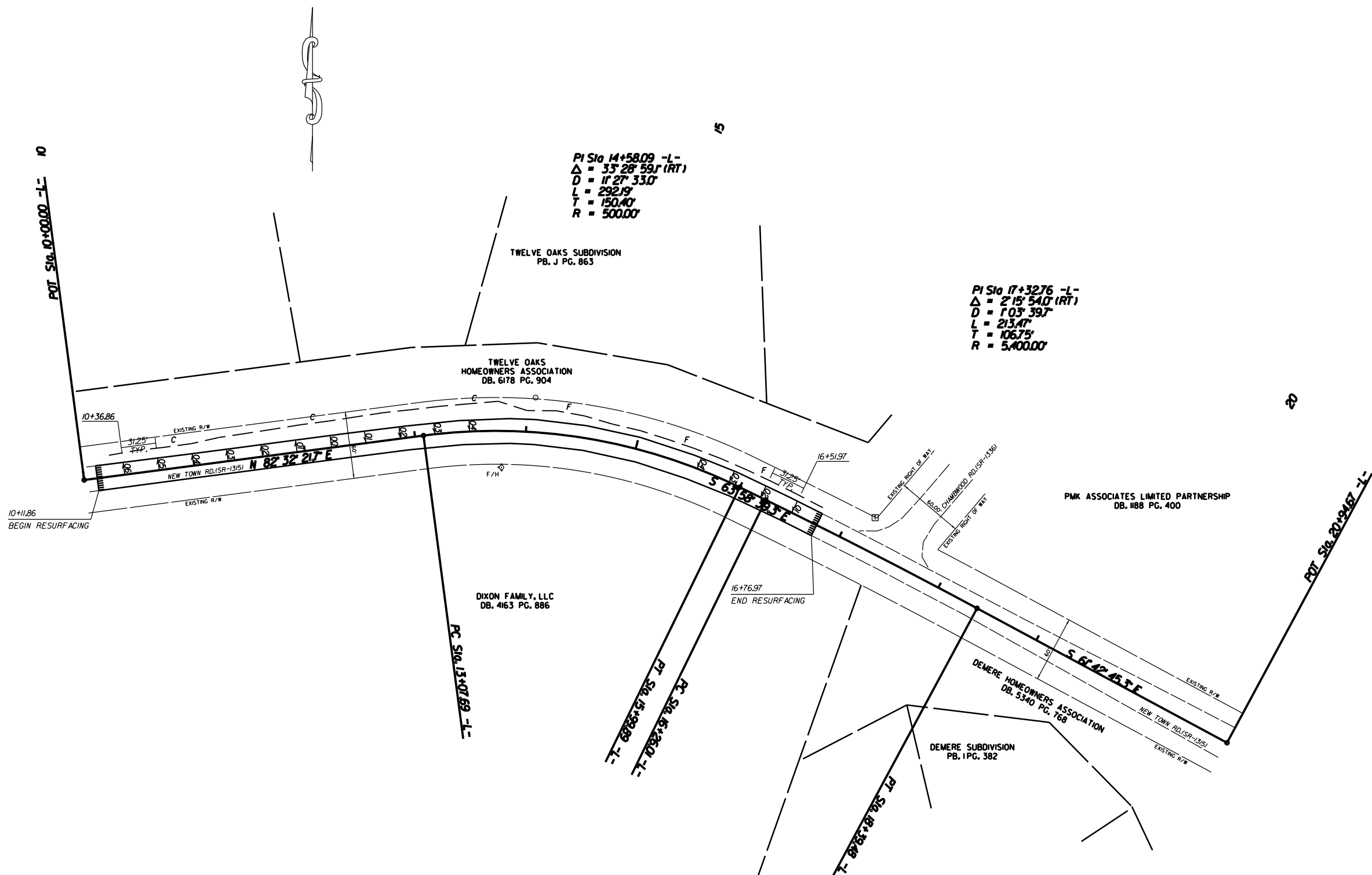
SCALE	-NA-
DATE	3/2016
DWG. BY	
DESIGN BY	
APPROVED	



REVISIONS	



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	4	
F.A. PROJECT NO.			



PI Sta 14+58.09 -L-  
 $\Delta = 33^\circ 28' 59.1$  (RT)  
 $D = 1127.330'$   
 $L = 292.19'$   
 $T = 150.40'$   
 $R = 500.00'$

PI Sta 17+32.76 -L-  
 $\Delta = 2^\circ 15' 54.0$  (RT)  
 $D = 103.397'$   
 $L = 213.47'$   
 $T = 106.75'$   
 $R = 5,400.00'$

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

WEDGING AND RESURFACING ON  
 NEWTOWN RD.(SR-1315) AT  
 CHAMBWOOD RD.(SR-1336)

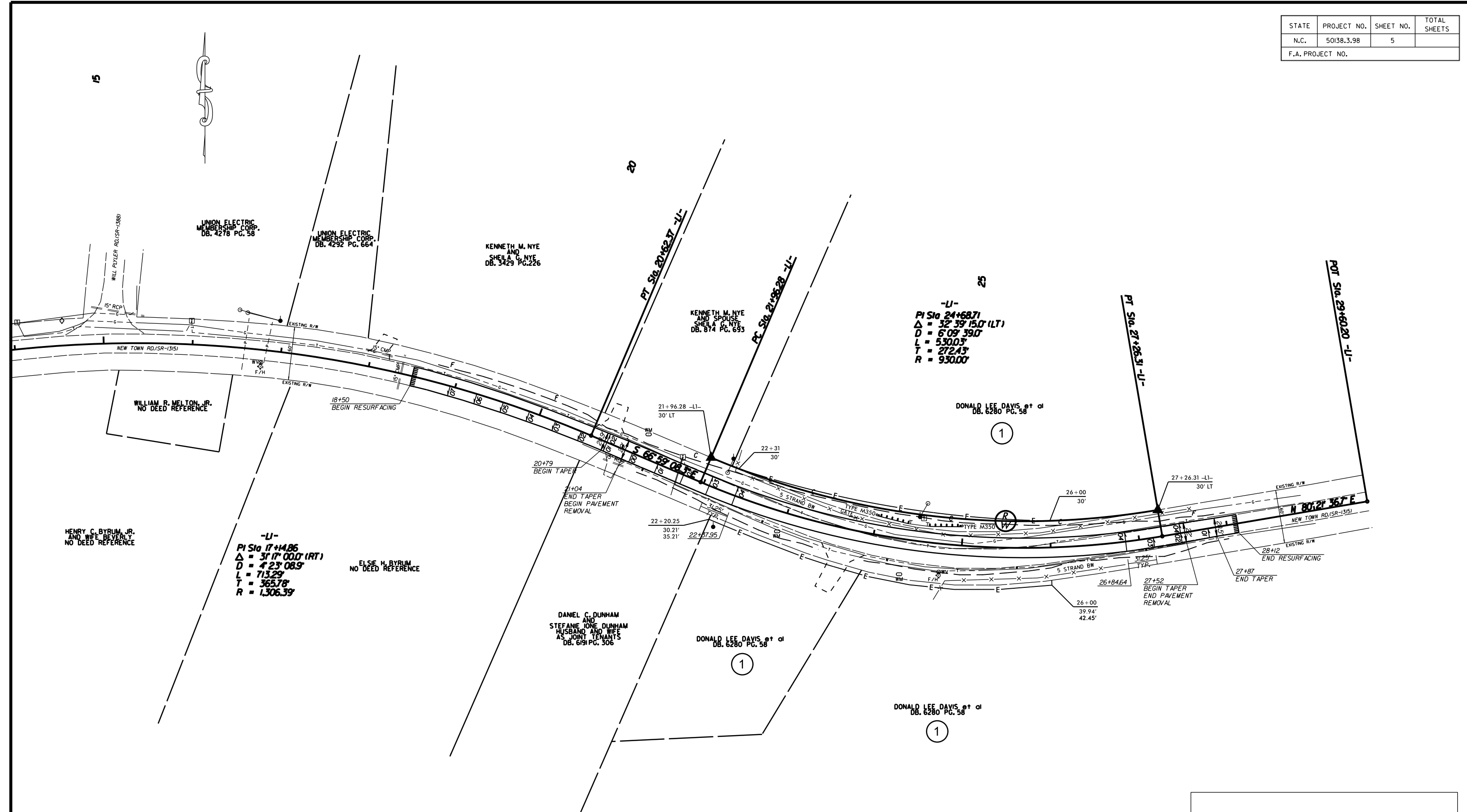
SCALE	1"=50'
DATE	10-2015
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB



REVISIONS	




STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	5	
F.A. PROJECT NO.			



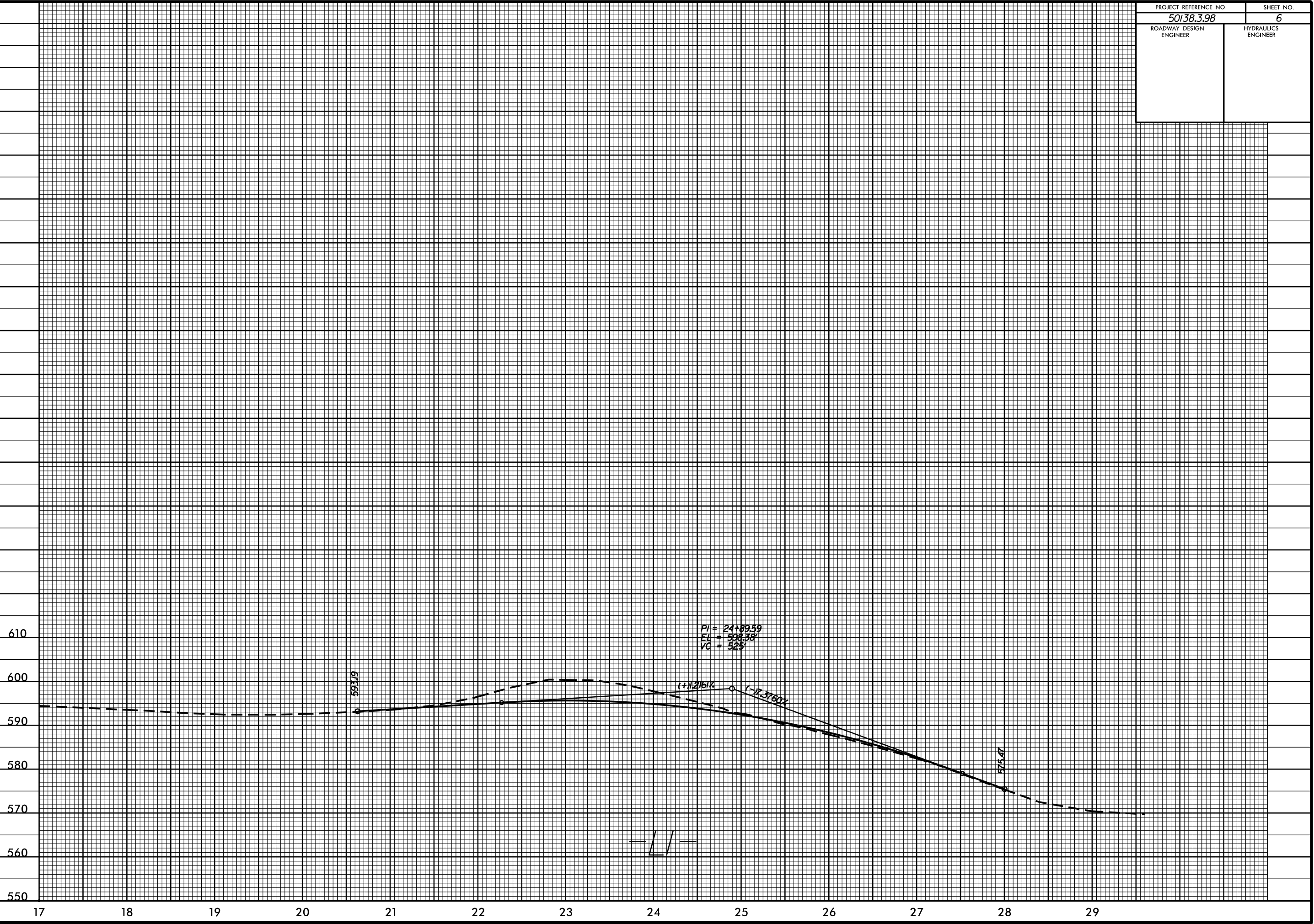
NOTE: INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

HILLCUT AND REALIGNMENT  
ON NEW TOWN RD. (SR-1315)

SCALE	1"=50'		REVISIONS
DATE	7-2015		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

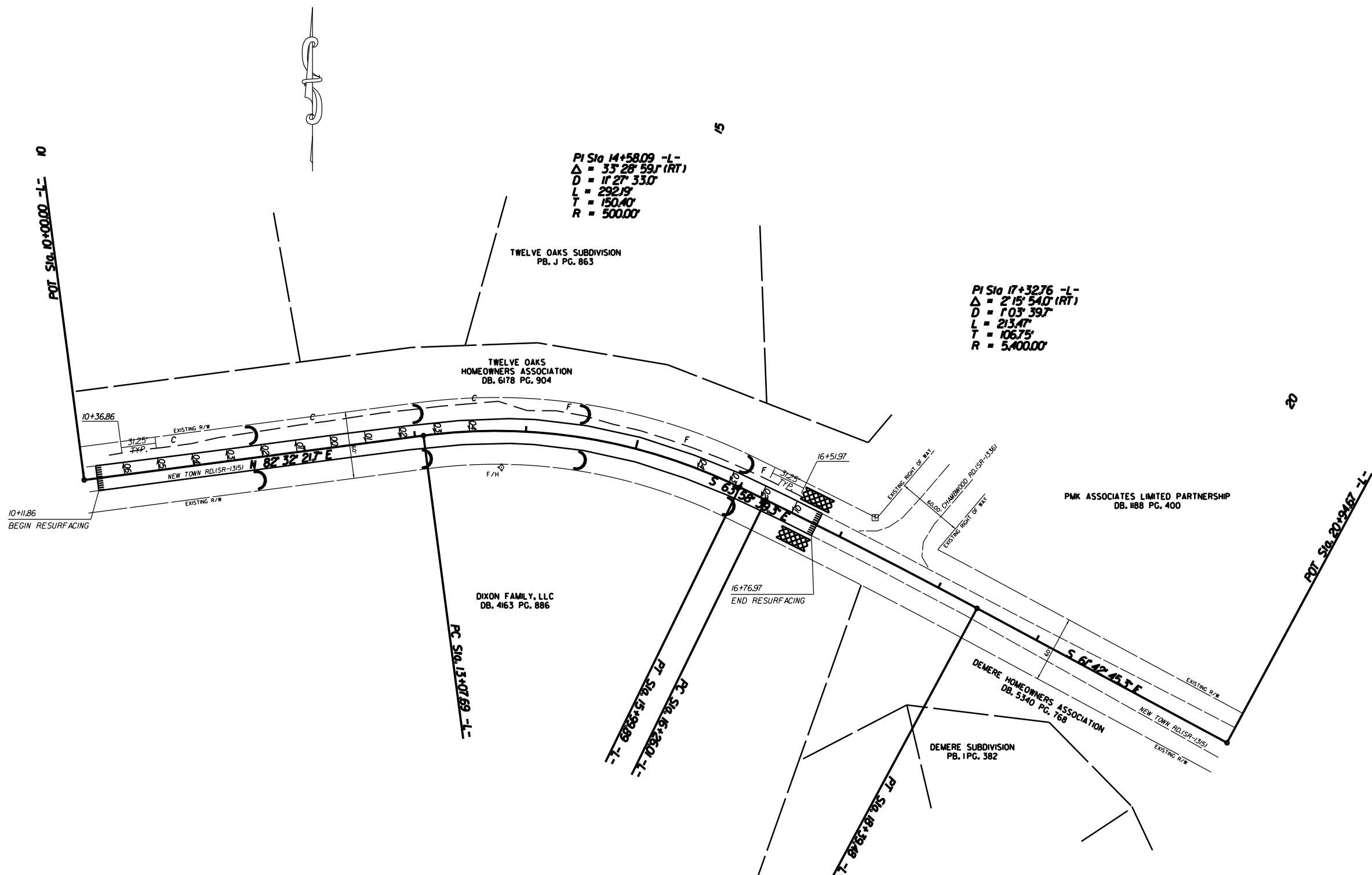
5/14/99

I:\APR-2016\530  
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at 10:11:41 2/28/27  
clausson





STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	EC-2	
F.A. PROJECT NO.			



PI Sta 14+58.09 -L-  
 $\Delta = 33^\circ 28' 59.1$  (RT)  
 $D = 1127.330'$   
 $L = 292.19'$   
 $T = 150.40'$   
 $R = 500.00'$

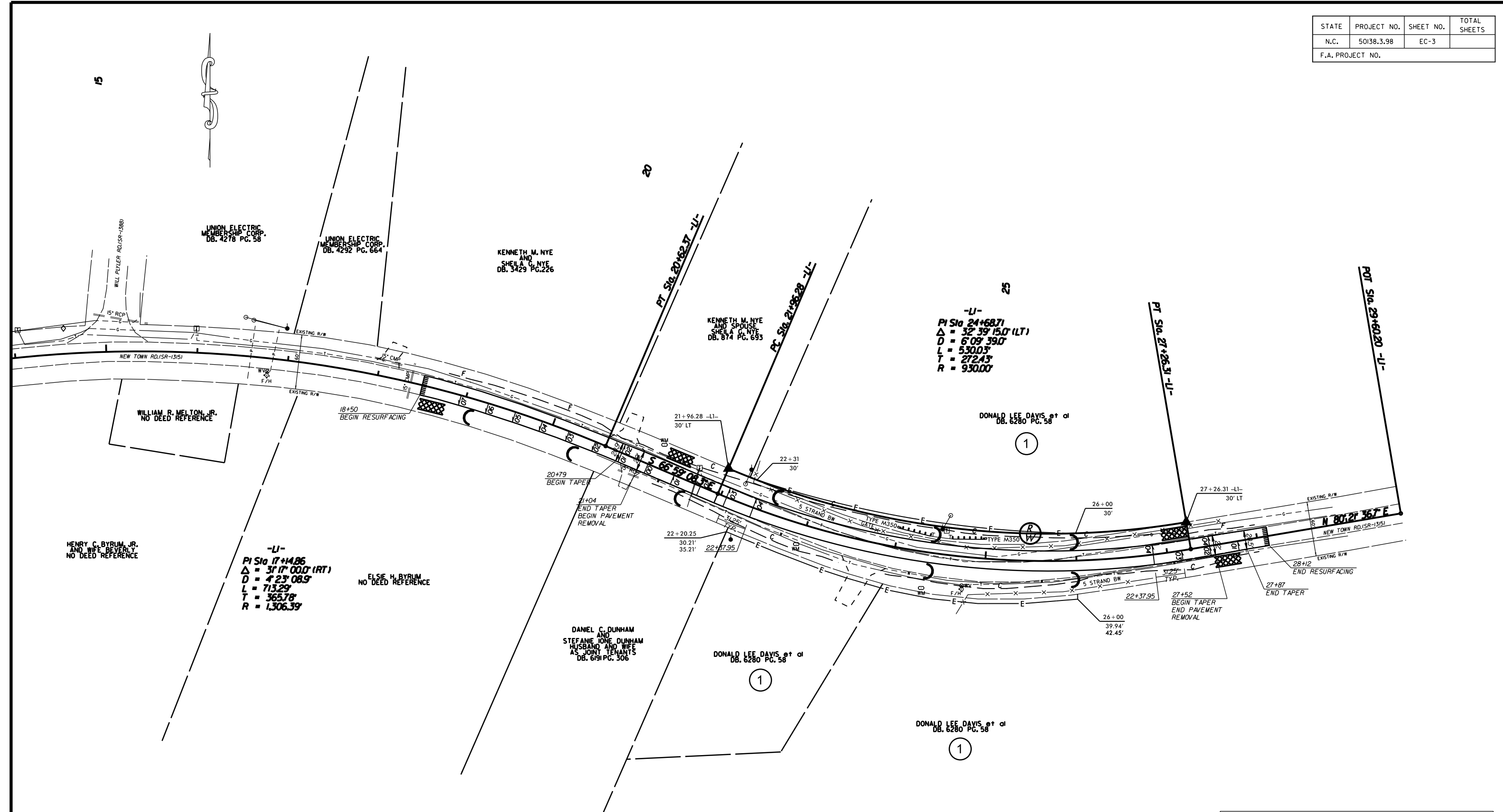
PI Sta 17+32.76 -L-  
 $\Delta = 2^\circ 15' 54.0$  (RT)  
 $D = 103.397'$   
 $L = 213.47'$   
 $T = 106.75'$   
 $R = 5,400.00'$

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

WEDGING AND RESURFACING ON  
 NEWTOWN RD. (SR-1315) AT  
 CHAMBWOOD RD. (SR-1336)

SCALE	1"=50'		REVISIONS
DATE	11-2015		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	EC-3	
F.A. PROJECT NO.			



-LI-  
 PI Sta 24+68.71  
 $\Delta = 32^{\circ} 39' 15.0''$  (LT)  
 $D = 6^{\circ} 09' 39.0''$   
 $L = 530.03'$   
 $T = 272.43'$   
 $R = 930.00'$

-LI-  
 PI Sta 17+14.86  
 $\Delta = 31^{\circ} 17' 00.0''$  (RT)  
 $D = 4^{\circ} 23' 08.9''$   
 $L = 713.29'$   
 $T = 365.78'$   
 $R = 1,306.39'$

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

HILLCUT AND REALIGNMENT  
 ON NEW TOWN RD. (SR-1315)

SCALE	1"=50'
DATE	11-2015
DWG. BY	DLS
DESIGN BY	JDH
APPROVED	RWB



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	PMP-1	
F.A. PROJECT NO.			

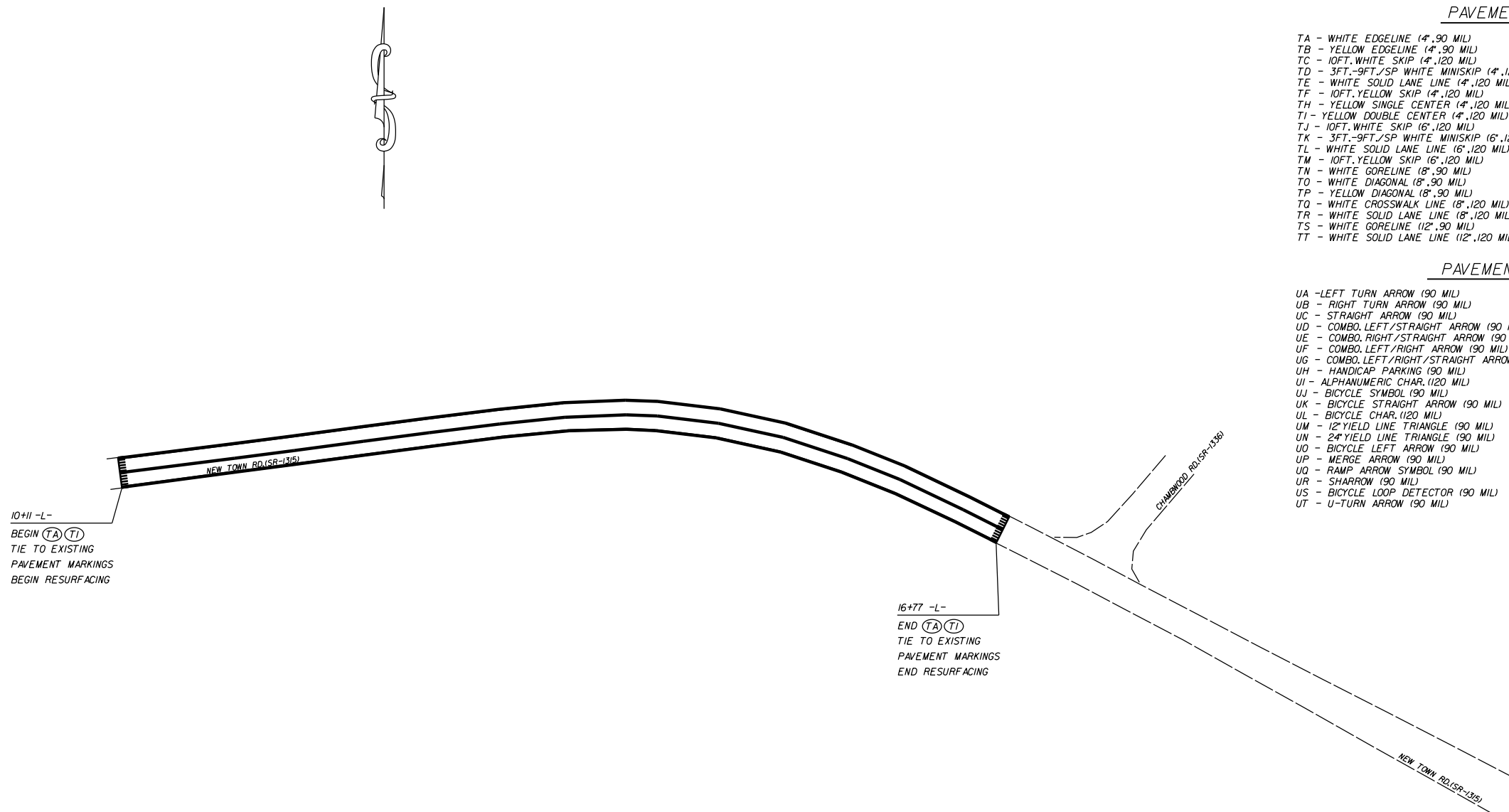
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- |   |  |
|---|--|
| TA - WHITE EDGELINE (4'.90 MIL)               | TU - WHITE DIAGONAL (12'.90 MIL)                             |
| TB - YELLOW EDGELINE (4'.90 MIL)              | TV - YELLOW DIAGONAL (12'.90 MIL)                            |
| TC - 10FT. WHITE SKIP (4'.120 MIL)            | TV - WHITE LINE, RR X (16'.120 MIL)                          |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4'.120 MIL) | TZ - WHITE STOPBAR (24'.120 MIL)                             |
| TE - WHITE SOLID LANE LINE (4'.120 MIL)       | T3 - WHITE CROSSWALK LINE (24'.120 MIL)                      |
| TF - 10FT. YELLOW SKIP (4'.120 MIL)           | T4 - WHITE RUMBLE STRIP (4".240 MIL)                         |
| TH - YELLOW SINGLE CENTER (4'.120 MIL)        | T5 - YELLOW RUMBLE STRIP (4".240 MIL)                        |
| TI - YELLOW DOUBLE CENTER (4'.120 MIL)        | T6 - WHITE EDGELINE (6'.90 MIL)                              |
| TJ - 10FT. WHITE SKIP (6'.120 MIL)            | T7 - YELLOW EDGELINE (6'.90 MIL)                             |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6'.120 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4'.120 MIL)                |
| TL - WHITE SOLID LANE LINE (6'.120 MIL)       | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4'.120 MIL)               |
| TM - 10FT. YELLOW SKIP (6'.120 MIL)           | T10 - 3FT.-3FT./SP WHITE MINISKIP (12'.120 MIL)              |
| TN - WHITE GORELINE (8'.90 MIL)               | T11 - 2FT.-6FT./SP WHITE MINISKIP (6'.120 MIL)               |
| TO - WHITE DIAGONAL (8'.90 MIL)               | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6'.120 MIL)              |
| TP - YELLOW DIAGONAL (8'.90 MIL)              | T13 - 3FT.-9FT./SP WHITE MINISKIP (8'.120 MIL)               |
| TQ - WHITE CROSSWALK LINE (8'.120 MIL)        | T14 - 3FT.-9FT./SP WHITE MINISKIP (12'.120 MIL)              |
| TR - WHITE SOLID LANE LINE (8'.120 MIL)       | T15 - YELLOW SINGLE CENTER (6'.120 MIL)                      |
| TS - WHITE GORELINE (12'.90 MIL)              | T16 - YELLOW DOUBLE CENTER (6'.120 MIL)                      |
| TT - WHITE SOLID LANE LINE (12'.120 MIL)      | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8'.120 MIL) |

PAVEMENT MARKING SYMBOLS

- |  |  |
|--|--|
| UA - LEFT TURN ARROW (90 MIL)                  | UU - FISH-HOOK STRAIGHT ARROW (90 MIL)                     |
| UB - RIGHT TURN ARROW (90 MIL)                 | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)                |
| UC - STRAIGHT ARROW (90 MIL)                   | UN - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)               |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)       | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)                   |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)      | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)          |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL)          | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)            |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |  |
| UH - HANDICAP PARKING (90 MIL)                 | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)                |
| UI - ALPHANUMERIC CHAR. (120 MIL)              | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)       |
| UJ - BICYCLE SYMBOL (90 MIL)                   | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL)           |  |
| UL - BICYCLE CHAR. (120 MIL)                   | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)             |
| UM - 12" YIELD LINE TRIANGLE (90 MIL)          | MB - PERMANENT RAISED MARKER (CRYSTAL & RED)               |
| UN - 24" YIELD LINE TRIANGLE (90 MIL)          | MC - PERMANENT RAISED MARKER (YELLOW & RED)                |
| UO - BICYCLE LEFT ARROW (90 MIL)               | MD - PERMANENT RAISED MARKER (YELLOW)                      |
| UP - MERGE ARROW (90 MIL)                      | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)                 |
| UQ - RAMP ARROW SYMBOL (90 MIL)                | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)                   |
| UR - SHARROW (90 MIL)                          | MG - SNOWPLOWABLE MARKER (YELLOW & RED)                    |
| US - BICYCLE LOOP DETECTOR (90 MIL)            | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)           |
| UT - U-TURN ARROW (90 MIL)                     | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)               |



10+11 -L-  
 BEGIN (TA) (TI)  
 TIE TO EXISTING  
 PAVEMENT MARKINGS  
 BEGIN RESURFACING

16+77 -L-  
 END (TA) (TI)  
 TIE TO EXISTING  
 PAVEMENT MARKINGS  
 END RESURFACING

WEDGING AND RESURFACING ON  
 NEWTOWN RD. (SR-1315) AT  
 CHAMWOOD RD. (SR-1336)

SCALE	1"=50'		REVISIONS	
DATE	12-2015			
DWG. BY	DLS			
DESIGN BY	JDH			
APPROVED	RWB			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	PMP-2	
F.A. PROJECT NO.			

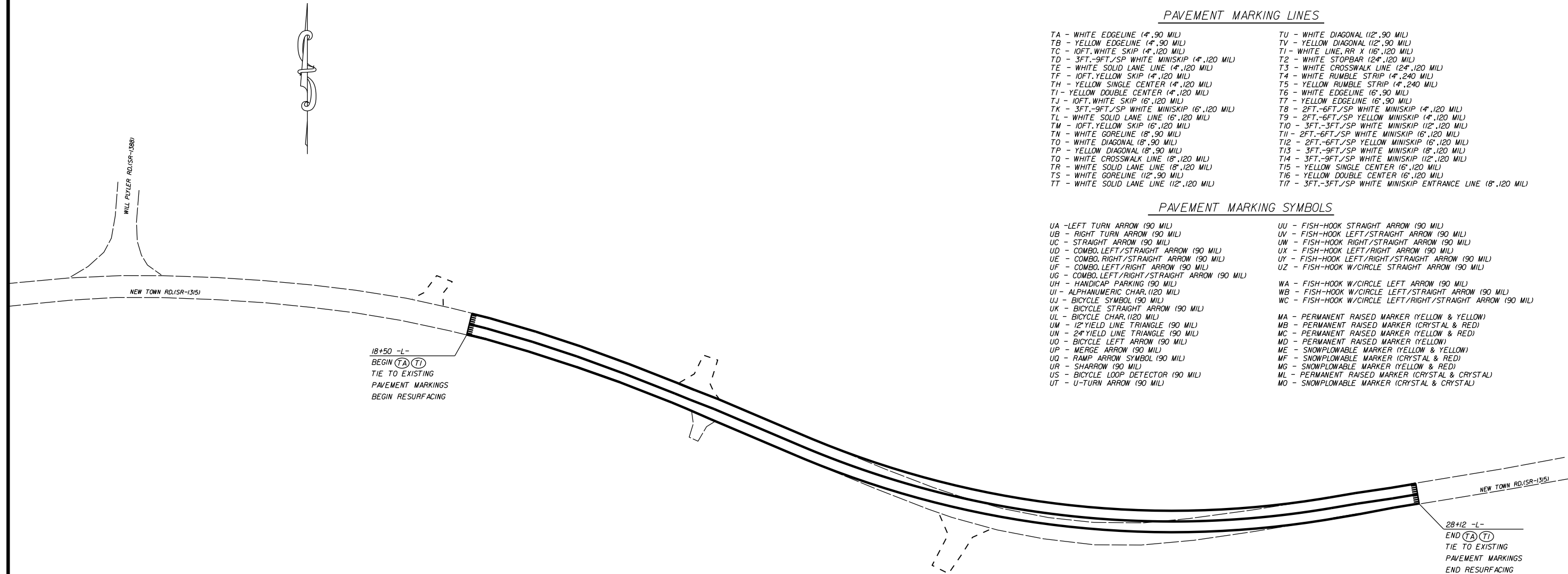
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- |  |   |
|--|---|
| TA - WHITE EDGELINE (4',.90 MIL)               | TU - WHITE DIAGONAL (12',.90 MIL)                             |
| TB - YELLOW EDGELINE (4',.90 MIL)              | TV - YELLOW DIAGONAL (12',.90 MIL)                            |
| TC - 10FT. WHITE SKIP (4',.120 MIL)            | T1 - WHITE LINE, RR X (16',.120 MIL)                          |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4',.120 MIL) | T2 - WHITE STOPBAR (24',.120 MIL)                             |
| TE - WHITE SOLID LANE LINE (4',.120 MIL)       | T3 - WHITE CROSSWALK LINE (24',.120 MIL)                      |
| TF - 10FT. YELLOW SKIP (4',.120 MIL)           | T4 - WHITE RUMBLE STRIP (4',.240 MIL)                         |
| TH - YELLOW SINGLE CENTER (4',.120 MIL)        | T5 - YELLOW RUMBLE STRIP (4',.240 MIL)                        |
| TI - YELLOW DOUBLE CENTER (4',.120 MIL)        | T6 - WHITE EDGELINE (6',.90 MIL)                              |
| TJ - 10FT. WHITE SKIP (6',.120 MIL)            | T7 - YELLOW EDGELINE (6',.90 MIL)                             |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6',.120 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4',.120 MIL)                |
| TL - WHITE SOLID LANE LINE (6',.120 MIL)       | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',.120 MIL)               |
| TM - 10FT. YELLOW SKIP (6',.120 MIL)           | T10 - 3FT.-3FT./SP WHITE MINISKIP (12',.120 MIL)              |
| TN - WHITE GORELINE (8',.90 MIL)               | T11 - 2FT.-6FT./SP WHITE MINISKIP (6',.120 MIL)               |
| TO - WHITE DIAGONAL (8',.90 MIL)               | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6',.120 MIL)              |
| TP - YELLOW DIAGONAL (8',.90 MIL)              | T13 - 3FT.-9FT./SP WHITE MINISKIP (8',.120 MIL)               |
| TQ - WHITE CROSSWALK LINE (8',.120 MIL)        | T14 - 3FT.-9FT./SP WHITE MINISKIP (12',.120 MIL)              |
| TR - WHITE SOLID LANE LINE (8',.120 MIL)       | T15 - YELLOW SINGLE CENTER (6',.120 MIL)                      |
| TS - WHITE GORELINE (12',.90 MIL)              | T16 - YELLOW DOUBLE CENTER (6',.120 MIL)                      |
| TT - WHITE SOLID LANE LINE (12',.120 MIL)      | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8',.120 MIL) |

PAVEMENT MARKING SYMBOLS

- |  |  |
|--|--|
| UA - LEFT TURN ARROW (90 MIL)                  | UU - FISH-HOOK STRAIGHT ARROW (90 MIL)                     |
| UB - RIGHT TURN ARROW (90 MIL)                 | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)                |
| UC - STRAIGHT ARROW (90 MIL)                   | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)               |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)       | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)                   |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)      | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)          |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL)          | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)            |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)                |
| UH - HANDICAP PARKING (90 MIL)                 | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)       |
| UI - ALPHANUMERIC CHAR. (120 MIL)              | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UJ - BICYCLE SYMBOL (90 MIL)                   |  |
| UK - BICYCLE STRAIGHT ARROW (90 MIL)           | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)             |
| UL - BICYCLE CHAR. (120 MIL)                   | MB - PERMANENT RAISED MARKER (CRYSTAL & RED)               |
| UM - 12" YIELD LINE TRIANGLE (90 MIL)          | MC - PERMANENT RAISED MARKER (YELLOW & RED)                |
| UN - 24" YIELD LINE TRIANGLE (90 MIL)          | MD - PERMANENT RAISED MARKER (YELLOW)                      |
| UO - BICYCLE LEFT ARROW (90 MIL)               | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)                 |
| UP - MERGE ARROW (90 MIL)                      | MF - SNOWPLOWABLE MARKER (CRYSTAL & YELLOW)                |
| UQ - RAMP ARROW SYMBOL (90 MIL)                | MG - SNOWPLOWABLE MARKER (YELLOW & RED)                    |
| UR - SHARROW (90 MIL)                          | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)           |
| US - BICYCLE LOOP DETECTOR (90 MIL)            | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)               |
| UT - U-TURN ARROW (90 MIL)                     |  |



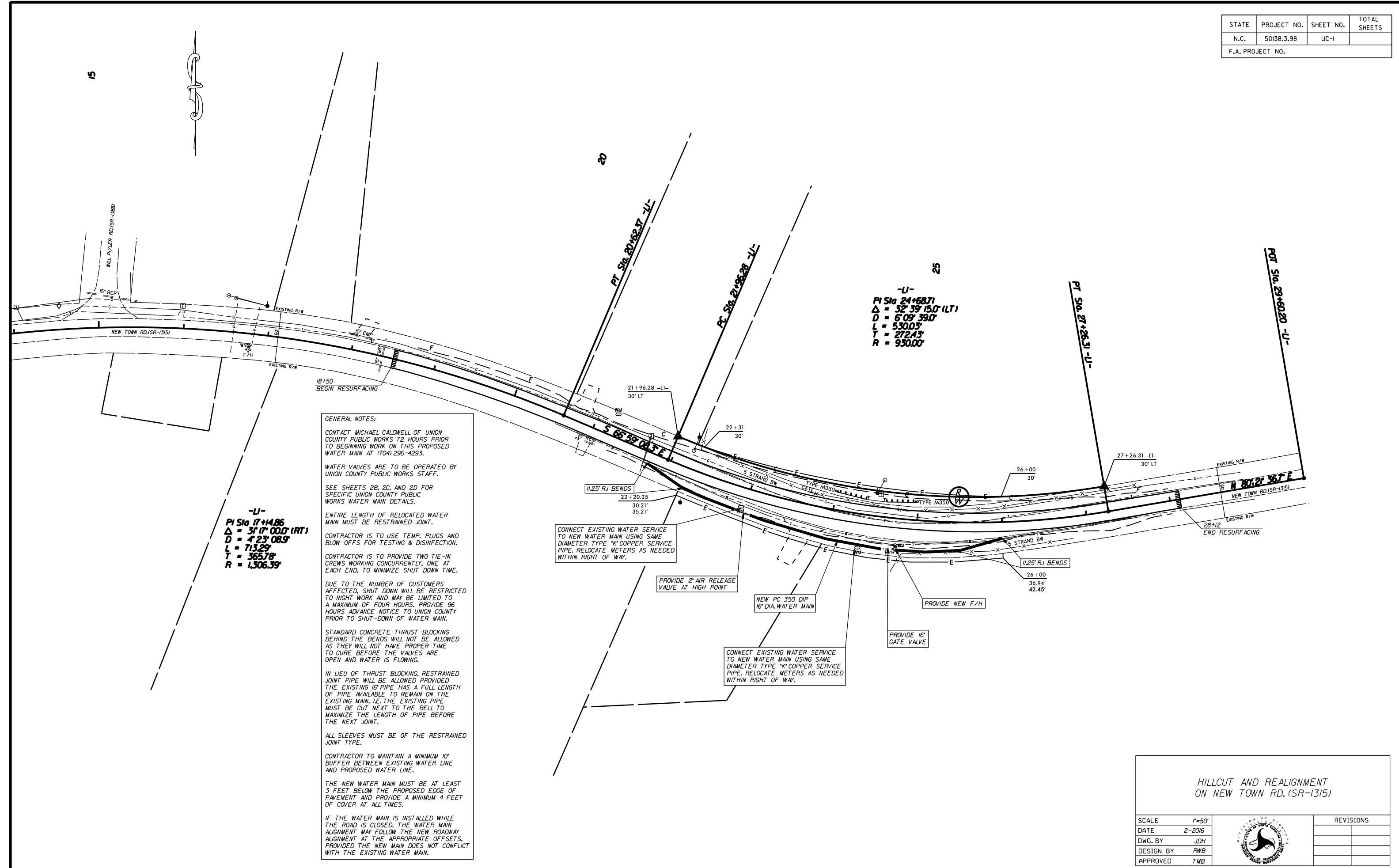
HILLCUT AND REALIGNMENT  
ON NEW TOWN RD. (SR-1315)

SCALE	1"=50'
DATE	12-2015
DWG. BY	DLS
DESIGN BY	JDH
APPROVED	RWB



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50138.3.98	UC-1	
F.A. PROJECT NO.			



-LI-  
 PI Sta 17+14.86  
 $\Delta = 31^{\circ} 00' 00''$  (RT)  
 $D = 423' 08.9'$   
 $L = 713.29'$   
 $T = 365.78'$   
 $R = 1,306.39'$

-LI-  
 PI Sta 24+68.71  
 $\Delta = 32^{\circ} 39' 15.0''$  (LT)  
 $D = 609' 39.0'$   
 $L = 530.03'$   
 $T = 272.43'$   
 $R = 930.00'$

**GENERAL NOTES:**

CONTACT MICHAEL CALDWELL OF UNION COUNTY PUBLIC WORKS 72 HOURS PRIOR TO BEGINNING WORK ON THIS PROPOSED WATER MAIN AT (704) 296-4293.

WATER VALVES ARE TO BE OPERATED BY UNION COUNTY PUBLIC WORKS STAFF.

SEE SHEETS 2B, 2C, AND 2D FOR SPECIFIC UNION COUNTY PUBLIC WORKS WATER MAIN DETAILS.

ENTIRE LENGTH OF RELOCATED WATER MAIN MUST BE RESTRAINED JOINT.

CONTRACTOR IS TO USE TEMP. PLUGS AND BLOW OFFS FOR TESTING & DISINFECTION.

CONTRACTOR IS TO PROVIDE TWO TIE-IN CREWS WORKING CONCURRENTLY, ONE AT EACH END, TO MINIMIZE SHUT DOWN TIME.

DUE TO THE NUMBER OF CUSTOMERS AFFECTED, SHUT DOWN WILL BE RESTRICTED TO NIGHT WORK AND MAY BE LIMITED TO A MAXIMUM OF FOUR HOURS. PROVIDE 96 HOURS ADVANCE NOTICE TO UNION COUNTY PRIOR TO SHUT-DOWN OF WATER MAIN.

STANDARD CONCRETE THRUST BLOCKING BEHIND THE BENDS WILL NOT BE ALLOWED AS THEY WILL NOT HAVE PROPER TIME TO CURE BEFORE THE VALVES ARE OPEN AND WATER IS FLOWING.

IN LIEU OF THRUST BLOCKING, RESTRAINED JOINT PIPE WILL BE ALLOWED PROVIDED THE EXISTING 16" PIPE HAS A FULL LENGTH OF PIPE AVAILABLE TO REMAIN ON THE EXISTING MAIN, I.E. THE EXISTING PIPE MUST BE CUT NEXT TO THE BELL TO MAXIMIZE THE LENGTH OF PIPE BEFORE THE NEXT JOINT.

ALL SLEEVES MUST BE OF THE RESTRAINED JOINT TYPE.

CONTRACTOR TO MAINTAIN A MINIMUM 10' BUFFER BETWEEN EXISTING WATER LINE AND PROPOSED WATER LINE.

THE NEW WATER MAIN MUST BE AT LEAST 3 FEET BELOW THE PROPOSED EDGE OF PAVEMENT AND PROVIDE A MINIMUM 4 FEET OF COVER AT ALL TIMES.

IF THE WATER MAIN IS INSTALLED WHILE THE ROAD IS CLOSED, THE WATER MAIN ALIGNMENT MAY FOLLOW THE NEW ROADWAY ALIGNMENT AT THE APPROPRIATE OFFSETS, PROVIDED THE NEW MAIN DOES NOT CONFLICT WITH THE EXISTING WATER MAIN.

CONNECT EXISTING WATER SERVICE TO NEW WATER MAIN USING SAME DIAMETER TYPE "K" COPPER SERVICE PIPE. RELOCATE METERS AS NEEDED WITHIN RIGHT OF WAY.

PROVIDE 2" AIR RELEASE VALVE AT HIGH POINT

NEW PC 350 DIP 16" DIA. WATER MAIN

CONNECT EXISTING WATER SERVICE TO NEW WATER MAIN USING SAME DIAMETER TYPE "K" COPPER SERVICE PIPE. RELOCATE METERS AS NEEDED WITHIN RIGHT OF WAY.

PROVIDE NEW F/H

PROVIDE 16" GATE VALVE

HILLCUT AND REALIGNMENT  
 ON NEW TOWN RD. (SR-1315)

SCALE	1"=50'
DATE	2-2016
DWG. BY	JDH
DESIGN BY	RWB
APPROVED	TMB



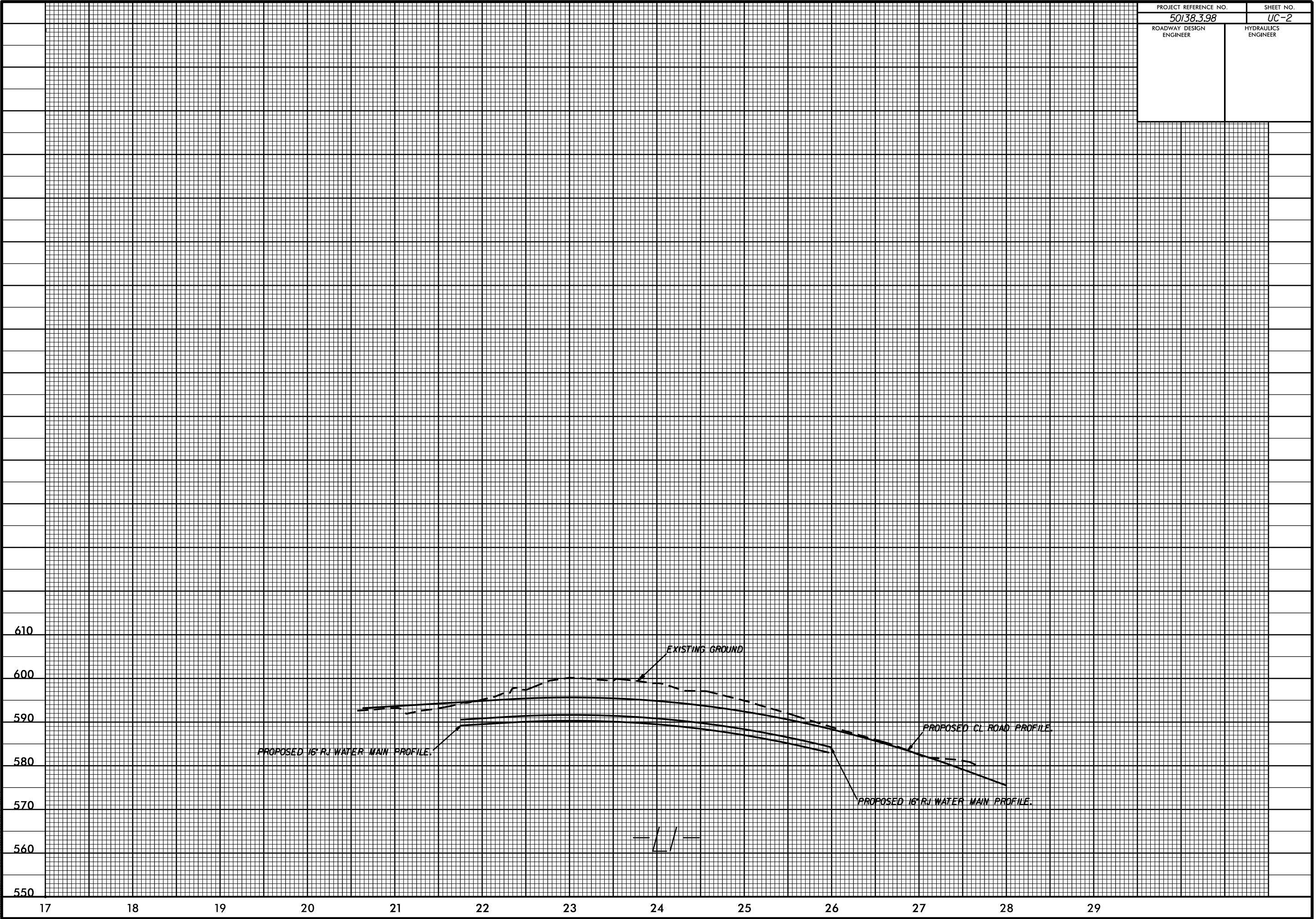
REVISIONS	

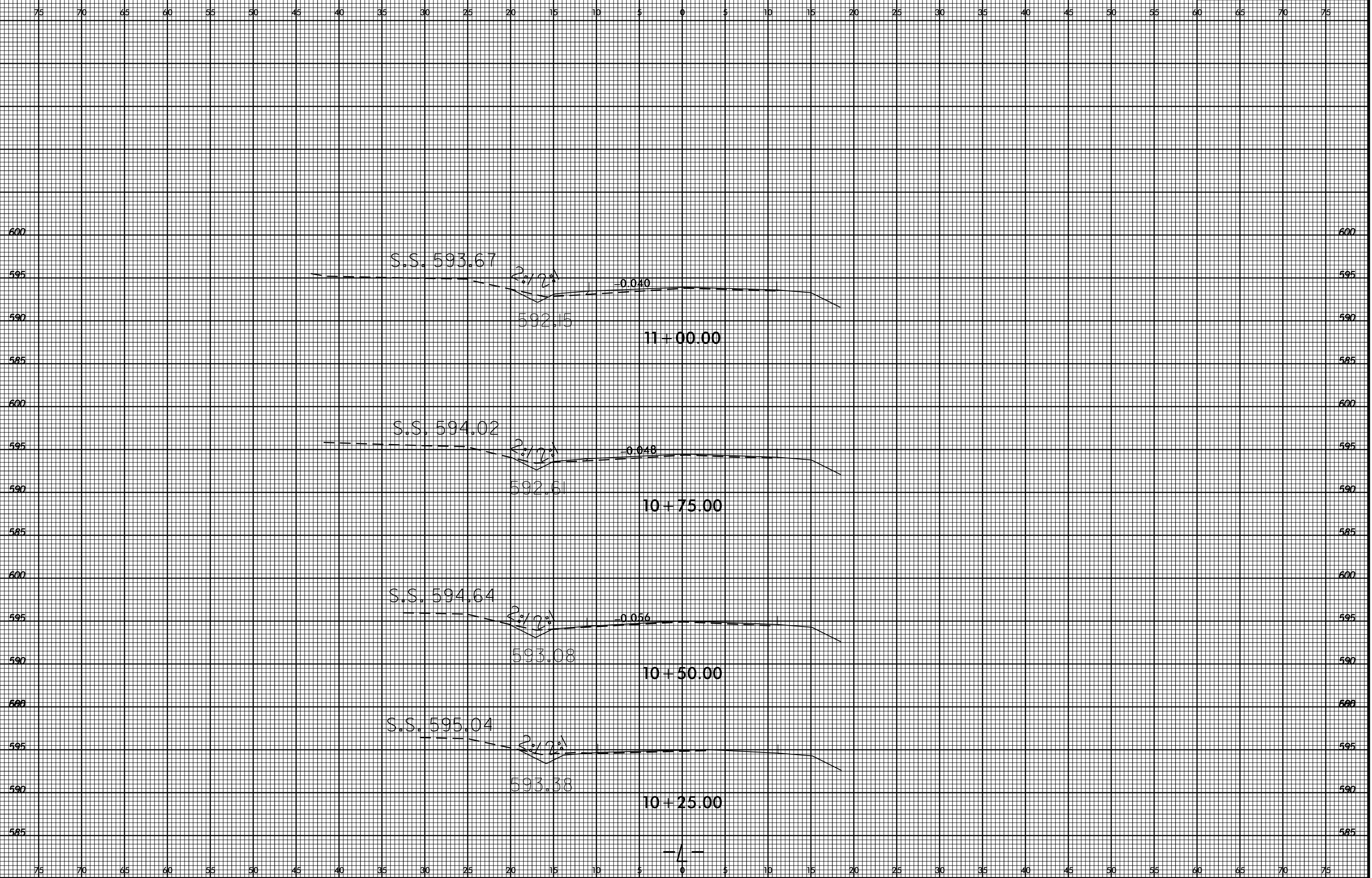


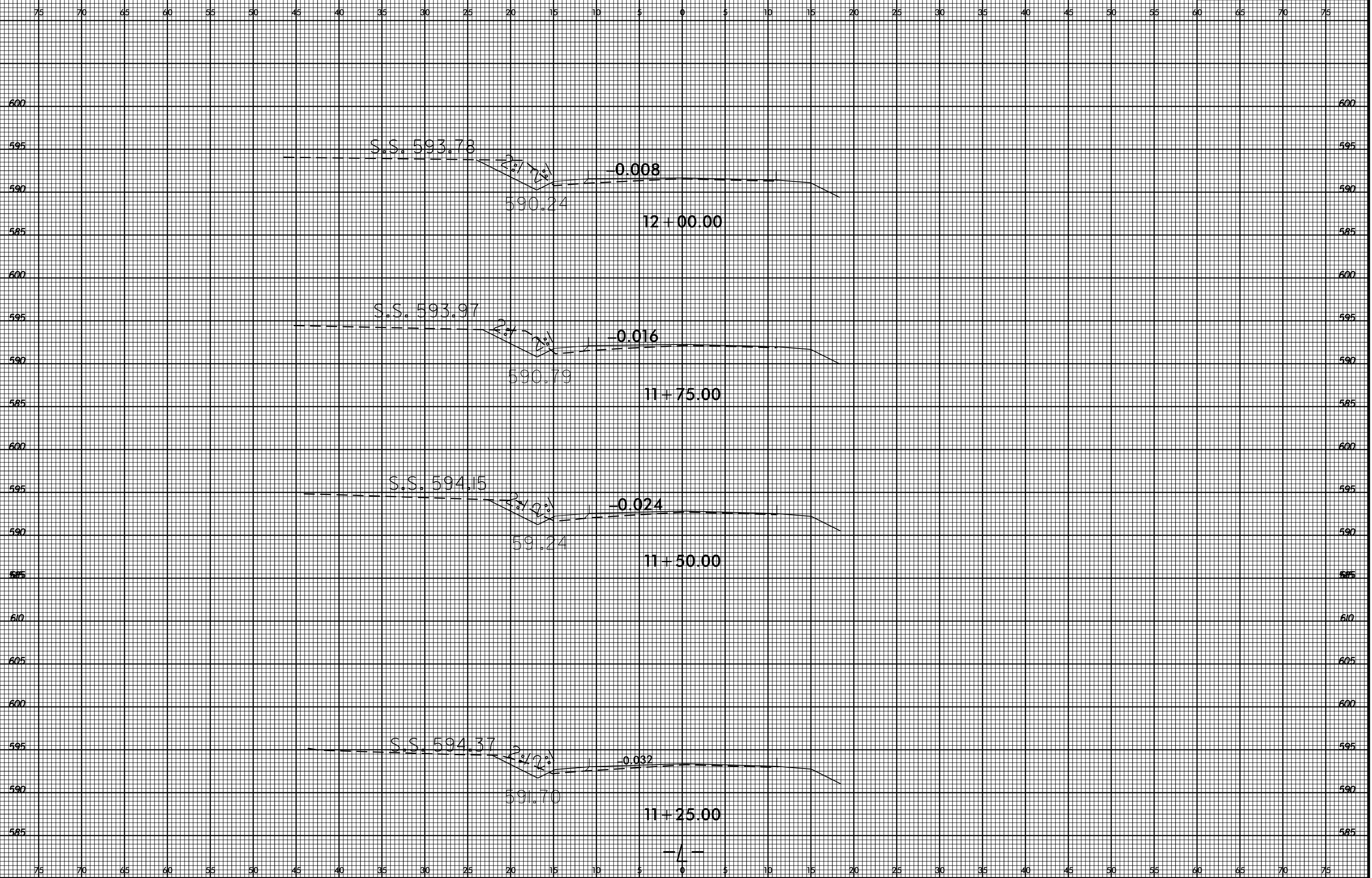
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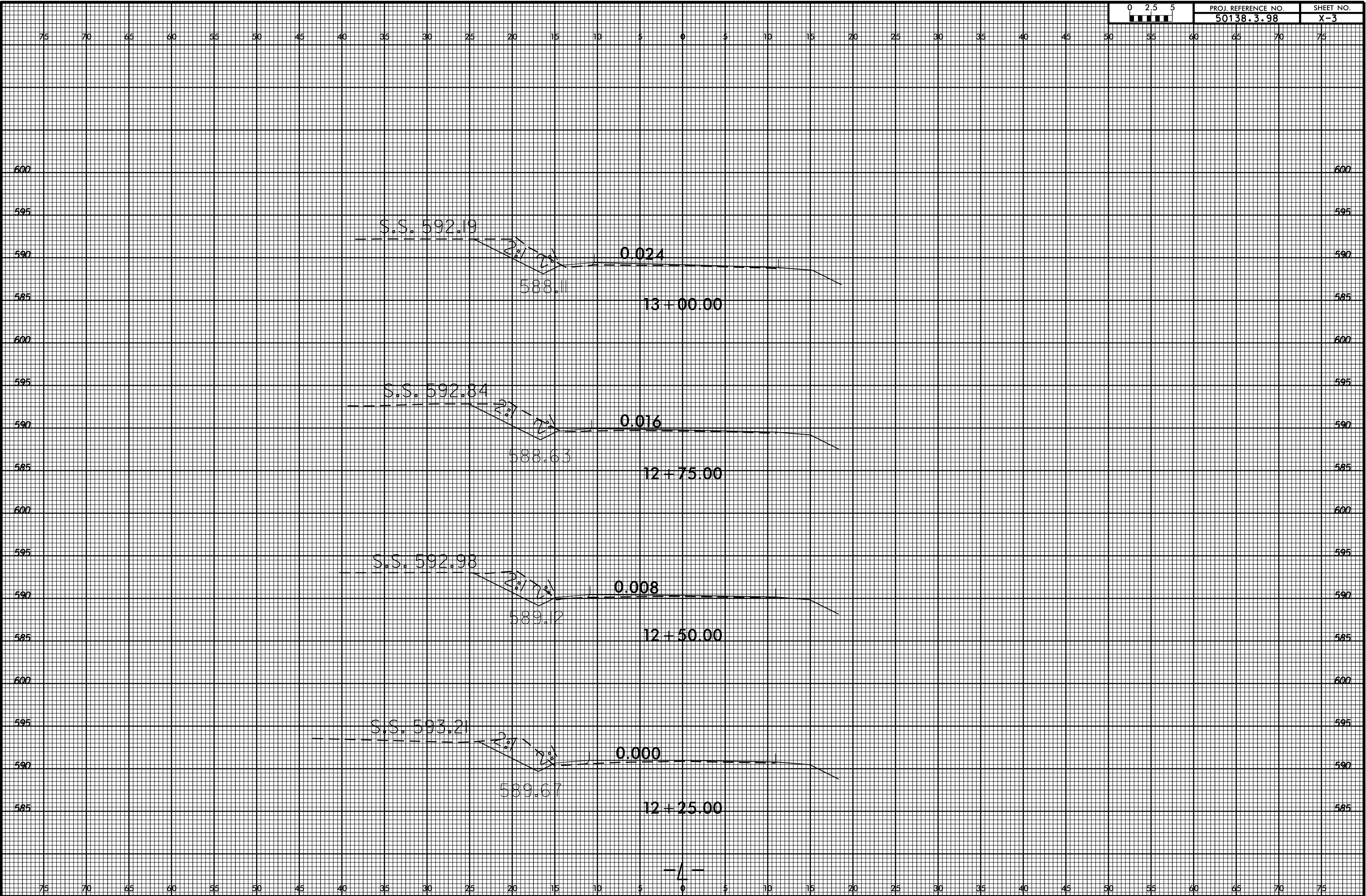
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50138.3.98	UC-2
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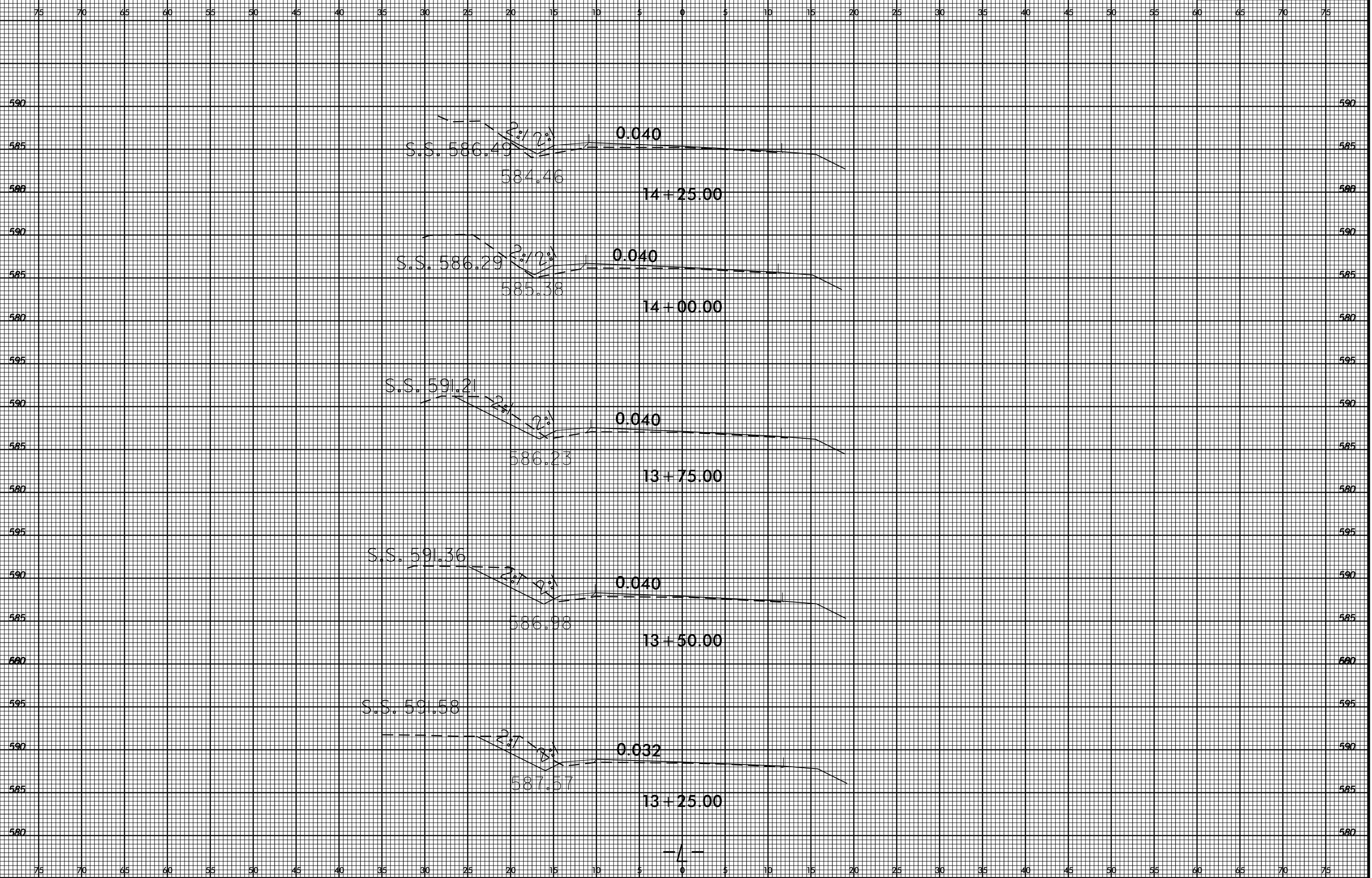


8/23/99



PROJ. REFERENCE NO.  
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SHEET NO.  
X-4



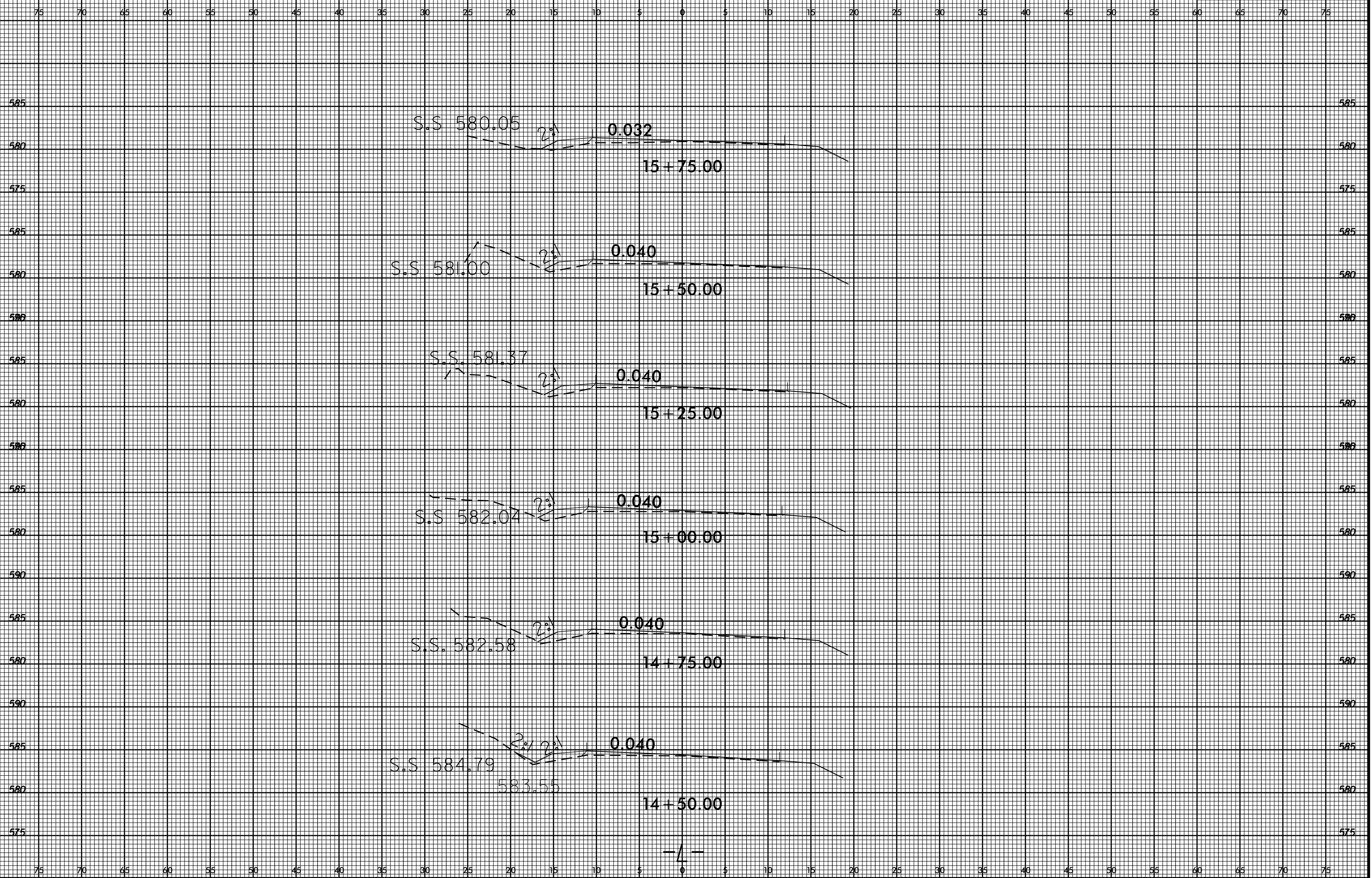
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8/23/99



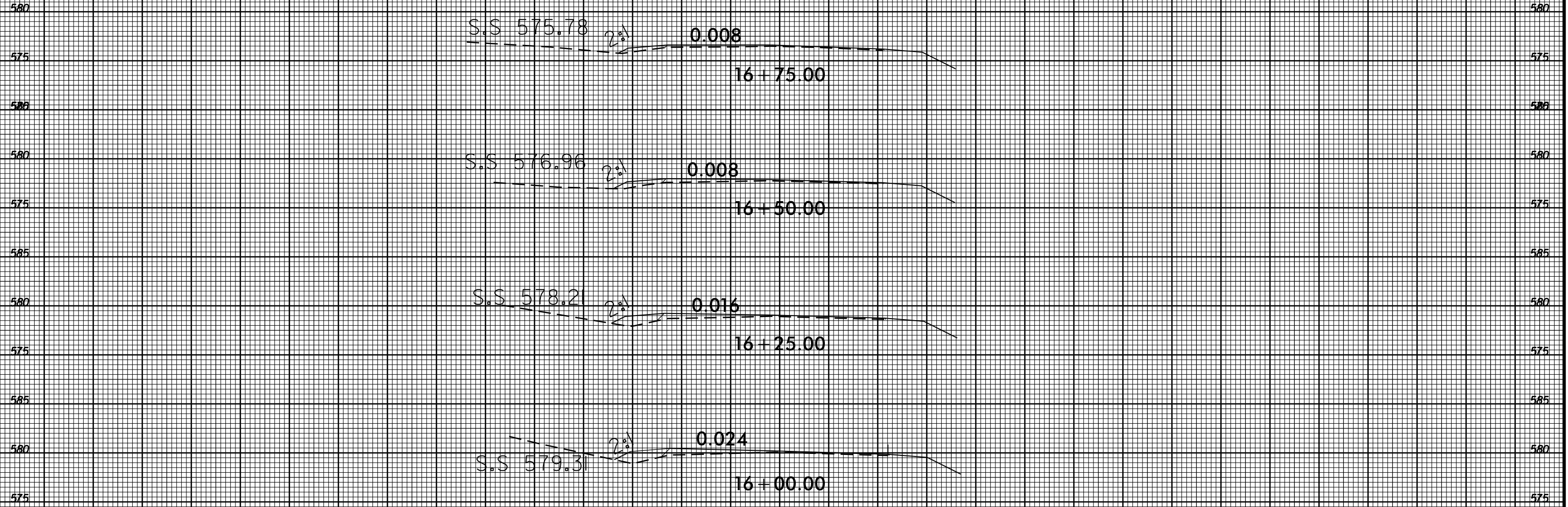
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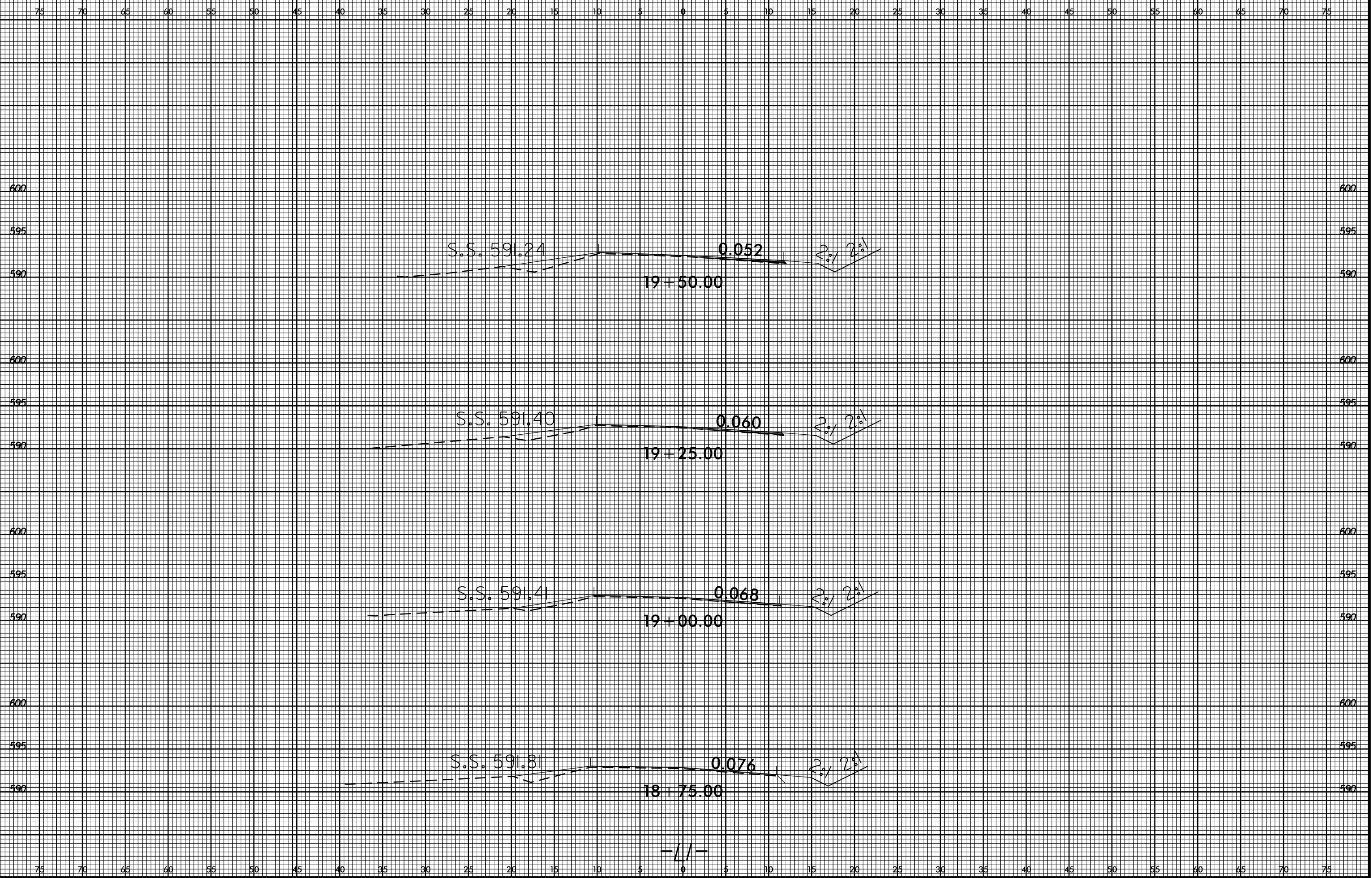
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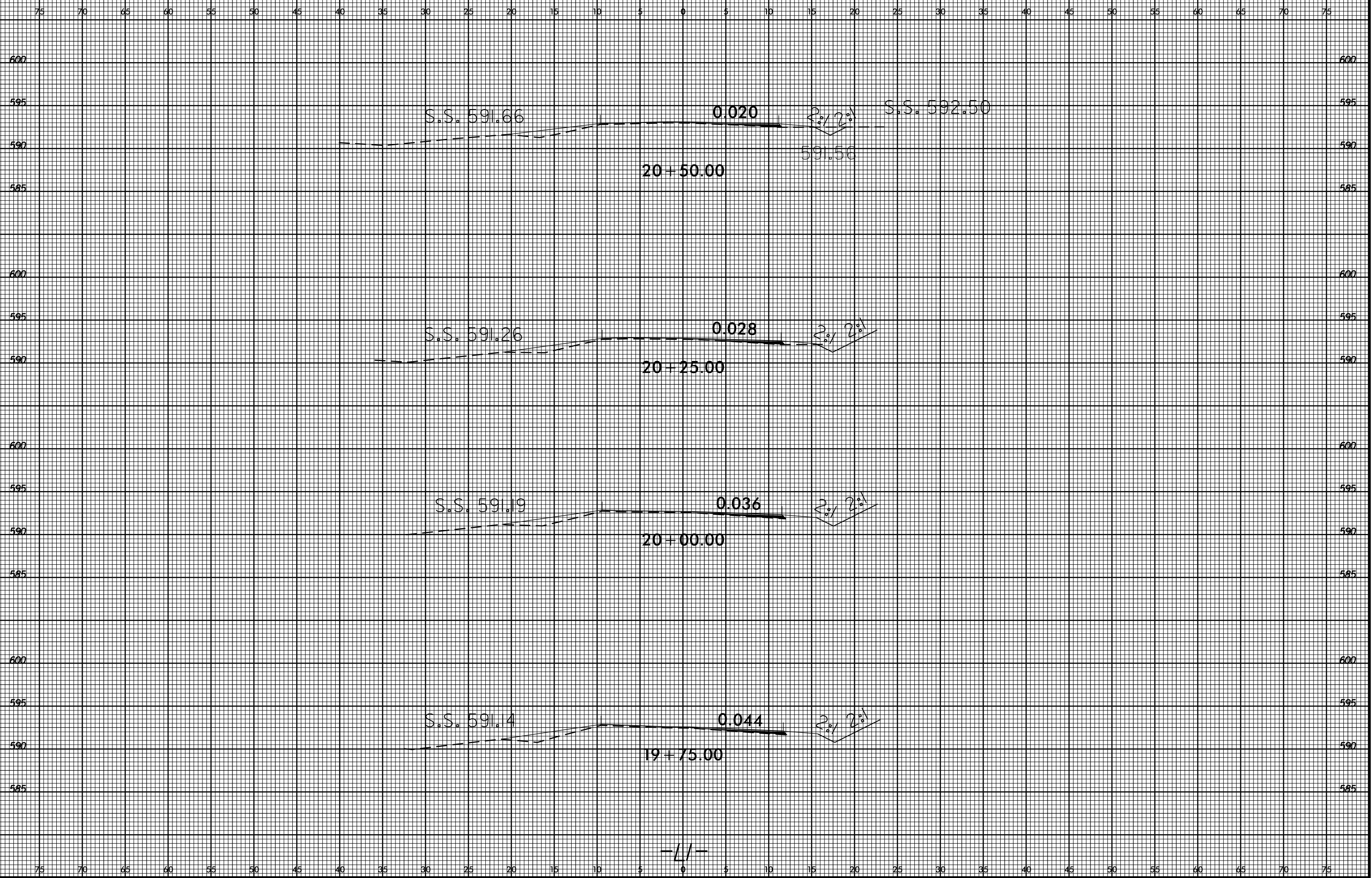
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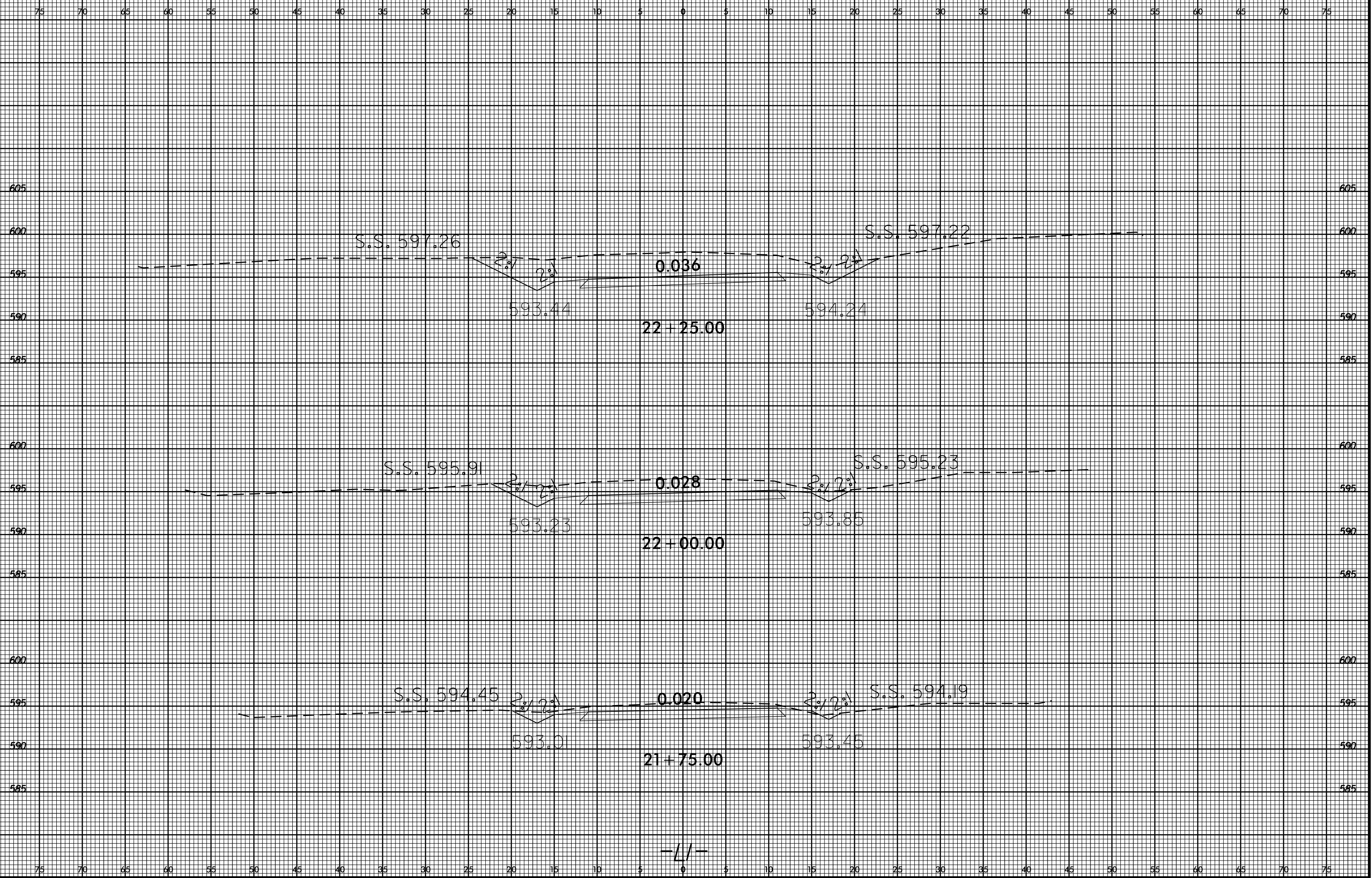
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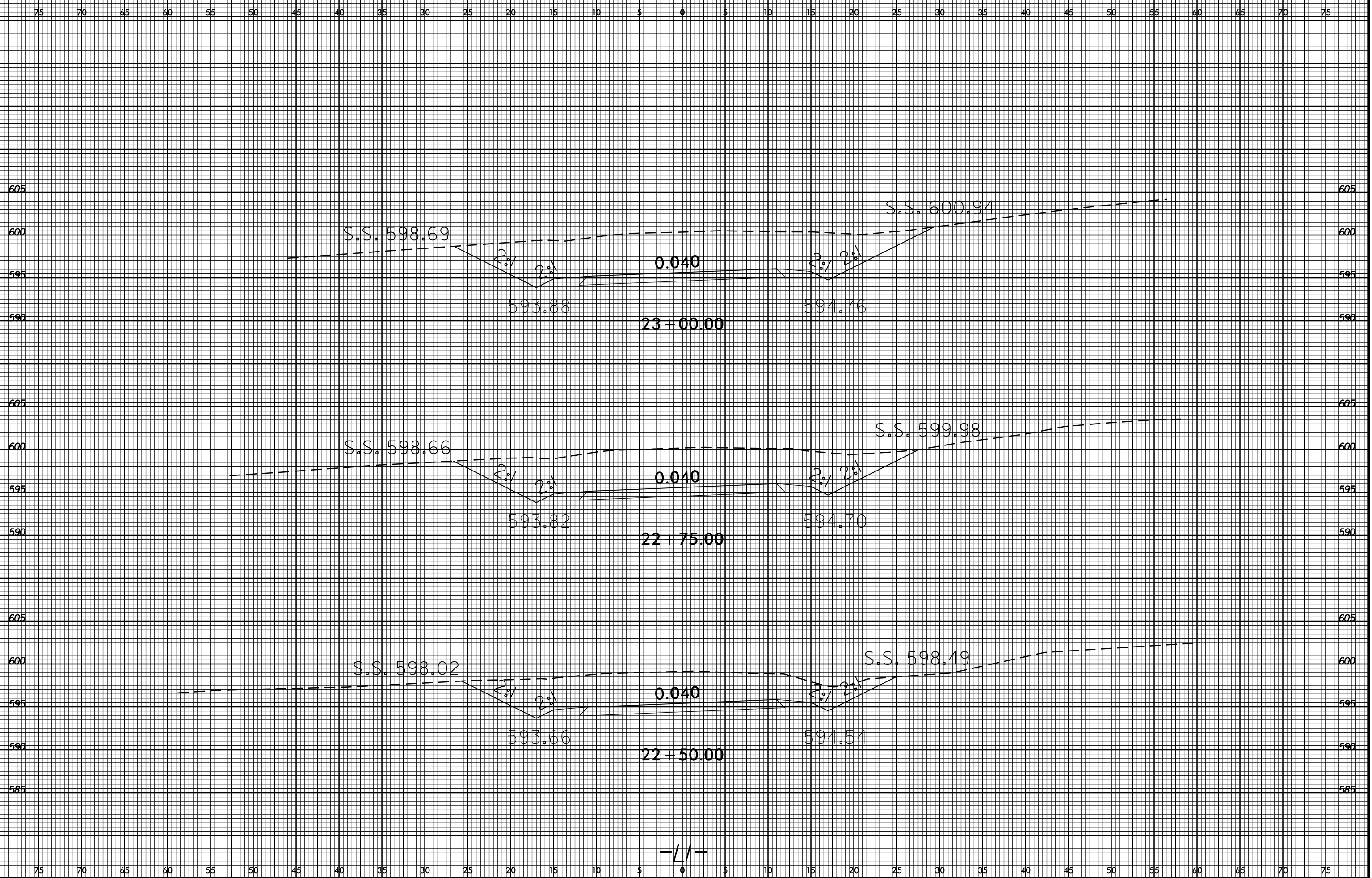
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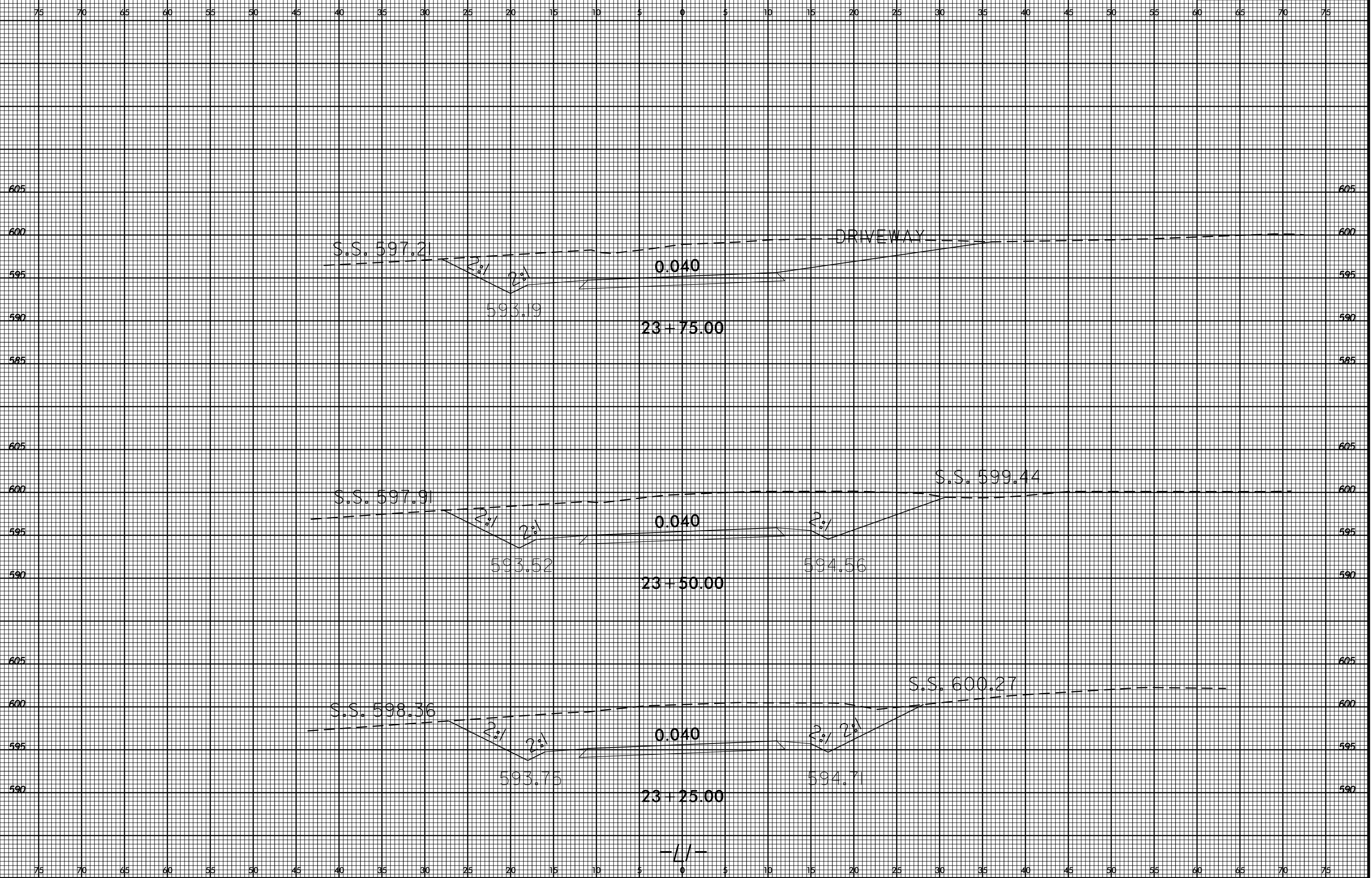
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-11-



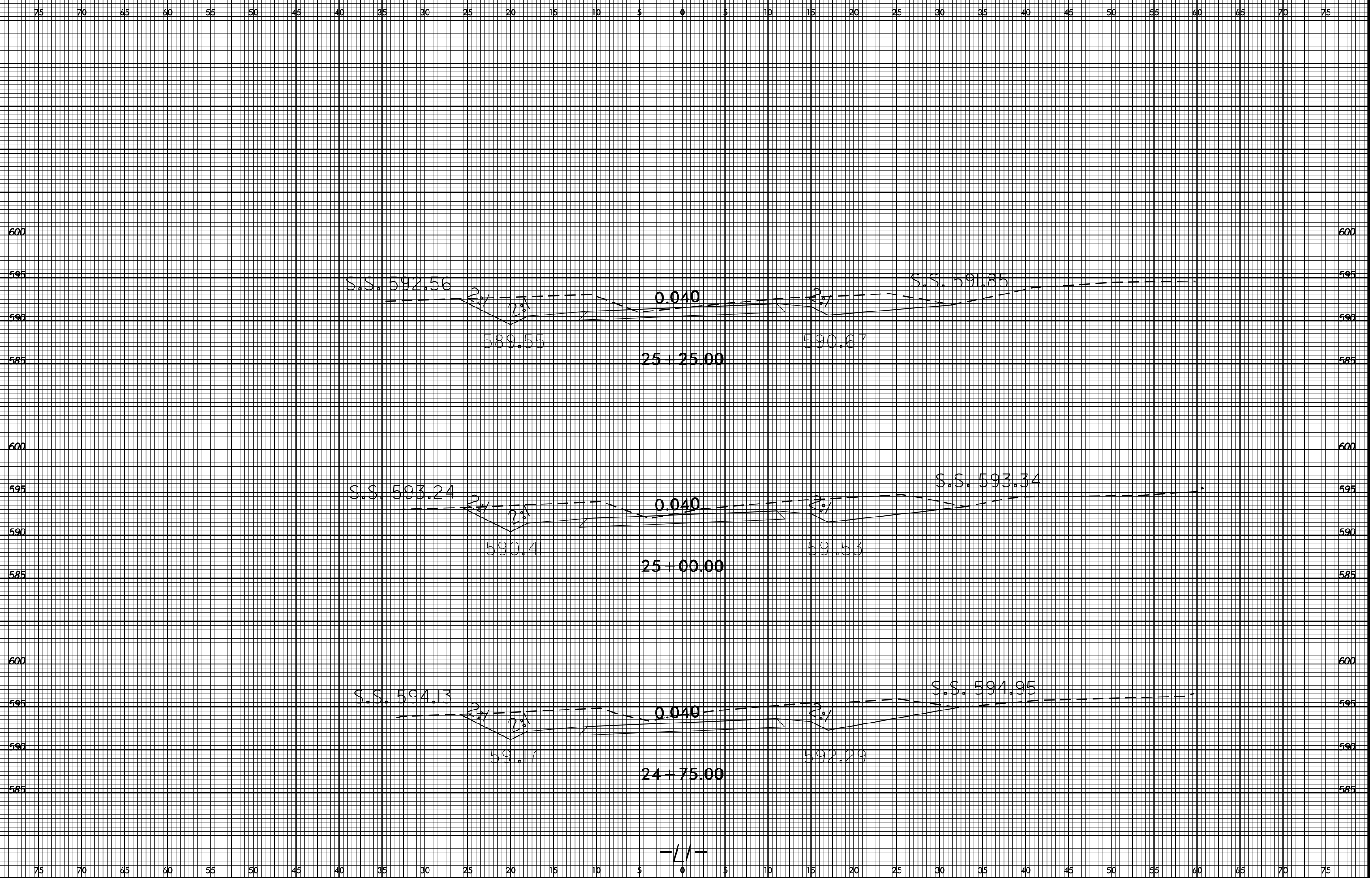


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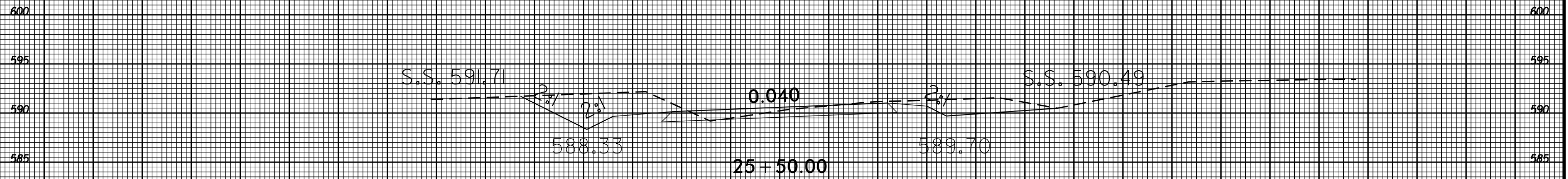
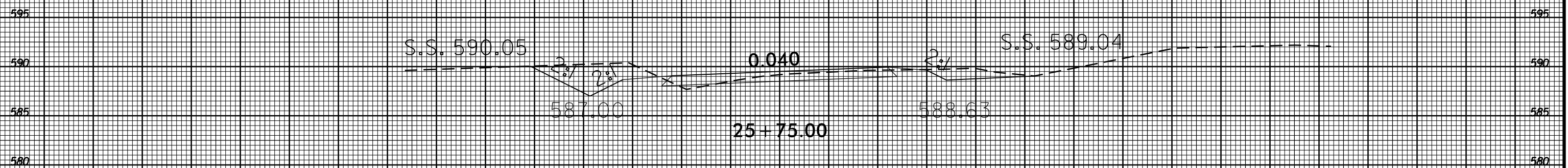
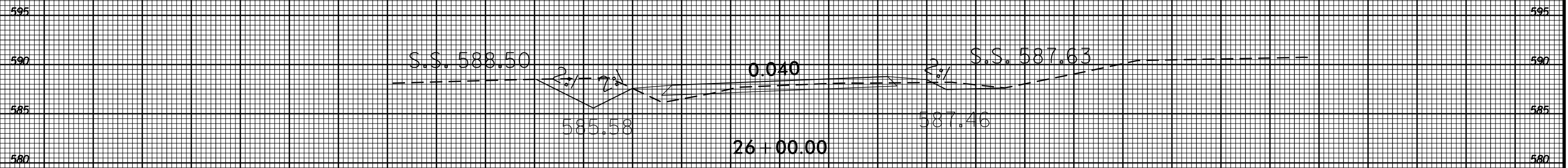
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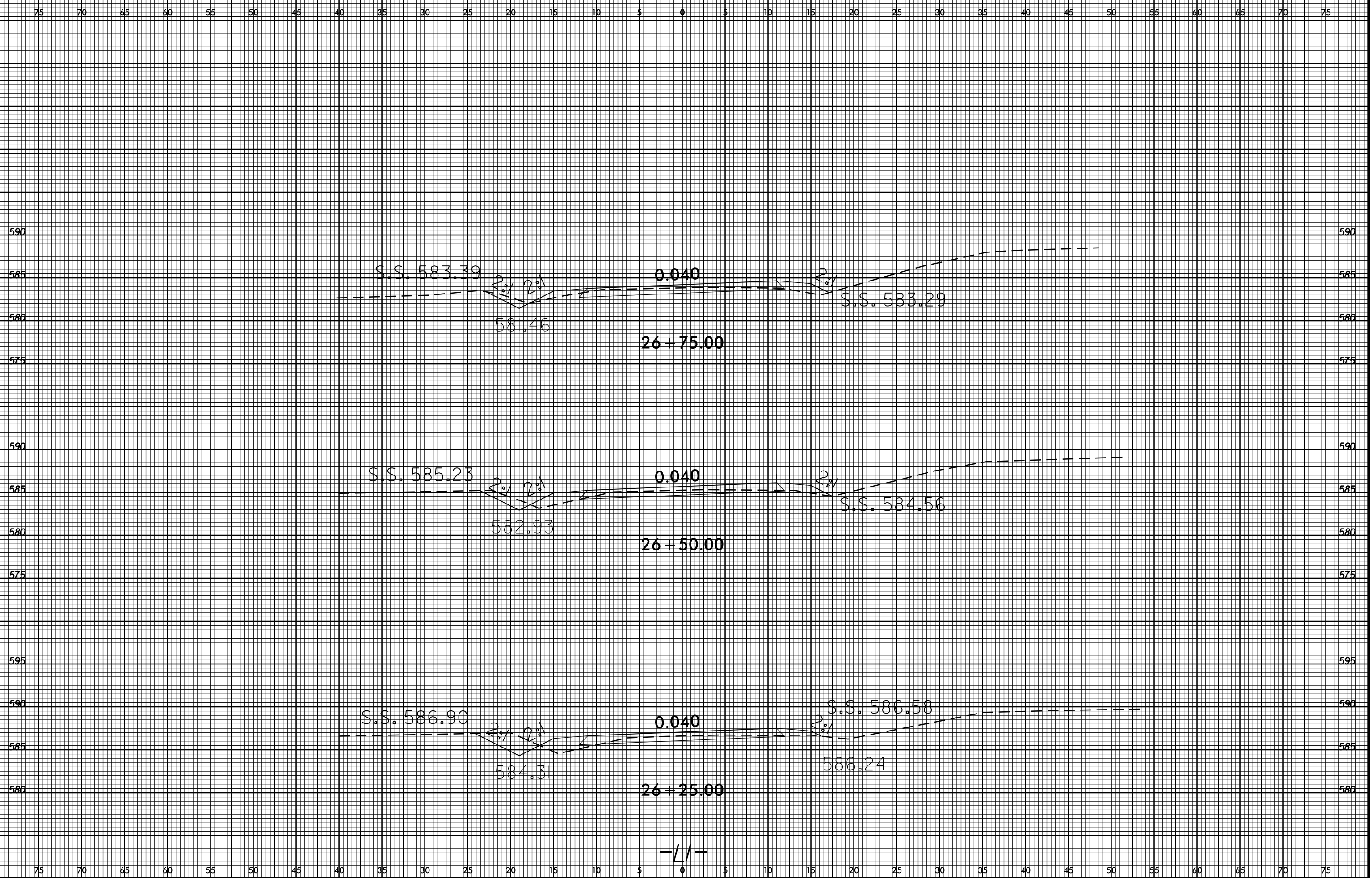


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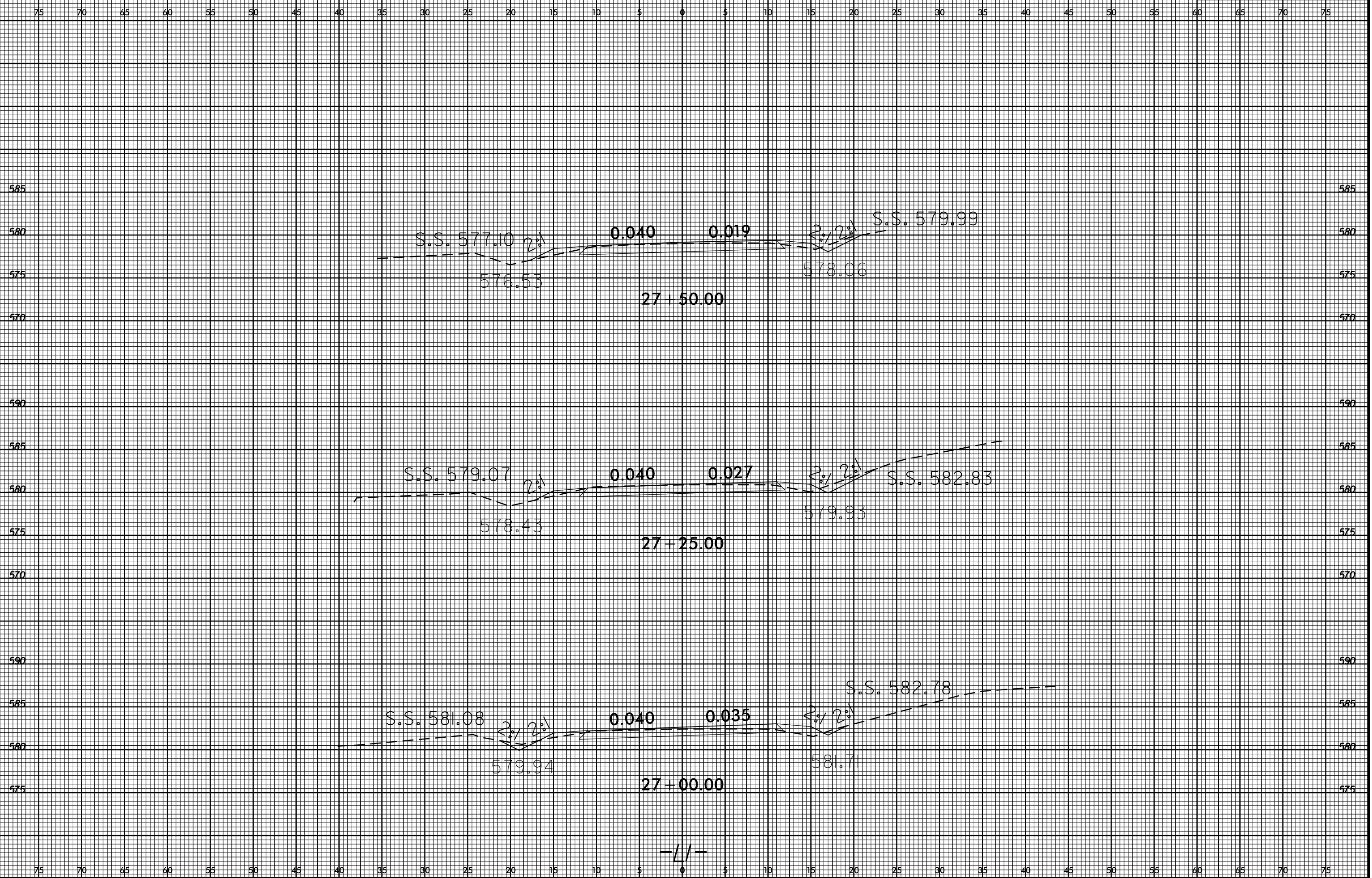


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