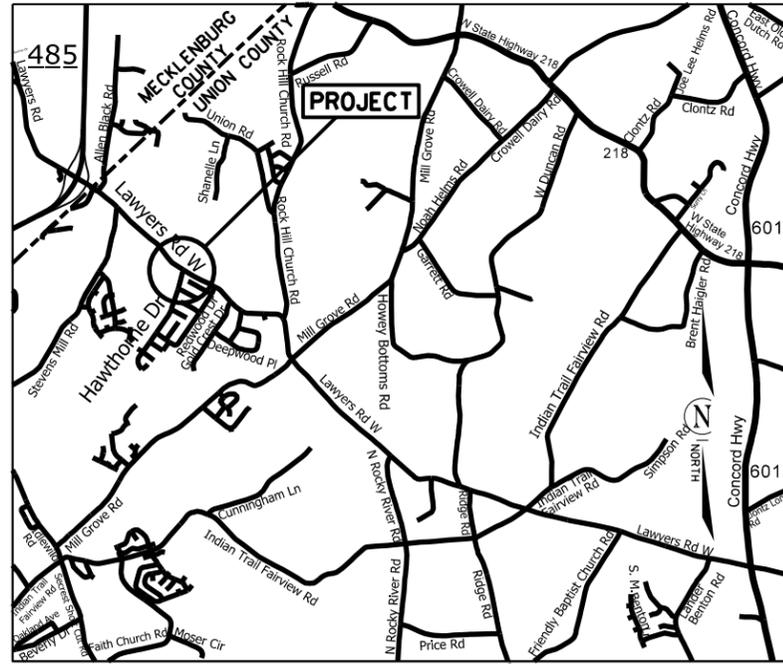


**PROJECT: 44856.3.27 TIP: W-5710AA**



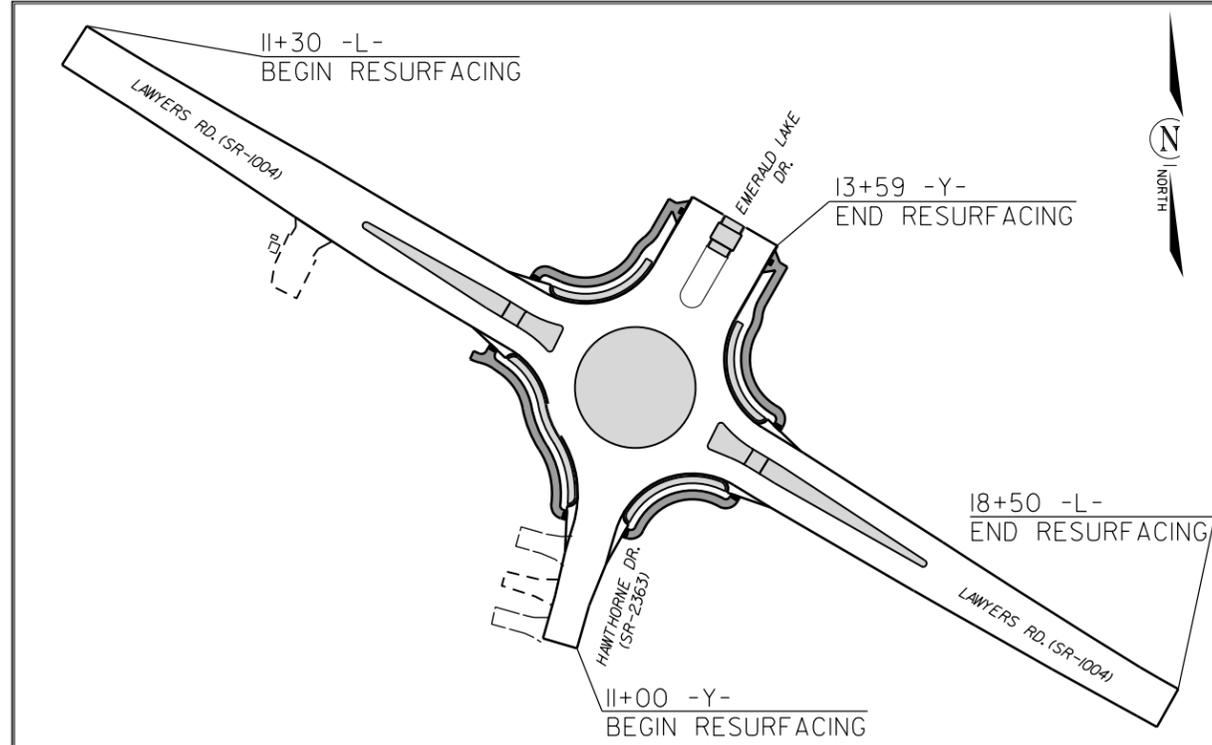
VICINITY MAP NOT TO SCALE

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

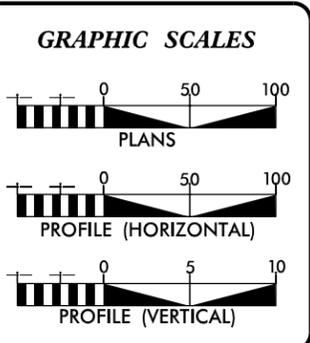
**LOCATION:** INTERSECTION OF LAWYERS RD. (SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR. (SR-2363)

**TYPE OF WORK:** GRADING, DRAINAGE, PAVING, WEDGING, MONOLITHIC CONCRETE ISLANDS,  
CURB AND GUTTER, SIDEWALK, AND THERMOPLASTIC PAVEMENT MARKINGS.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44856.3.27	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.27	HSIP-1004(067)	P.E.	
44856.2.27	HSIP-1004(067)	R/W	
44856.3.27	HSIP-1004(067)	CONST.	



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



**DESIGN DATA**

ADT	=	_____
ADT	=	_____
DHV	=	___ %
D	=	___ %
T	=	___ %
V	=	___ MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT	=	0.19	MILES
TOTAL LENGTH OF STATE PROJECT	=	0.19	MILES

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

2018 STANDARD SPECIFICATIONS	
<b>RIGHT OF WAY DATE:</b> 04-01-2022	<b>DONALD HARWARD</b> PROJECT ENGINEER
<b>LETTING DATE:</b> 10-05-2022	<b>DONALD HARWARD</b> PROJECT DESIGN ENGINEER

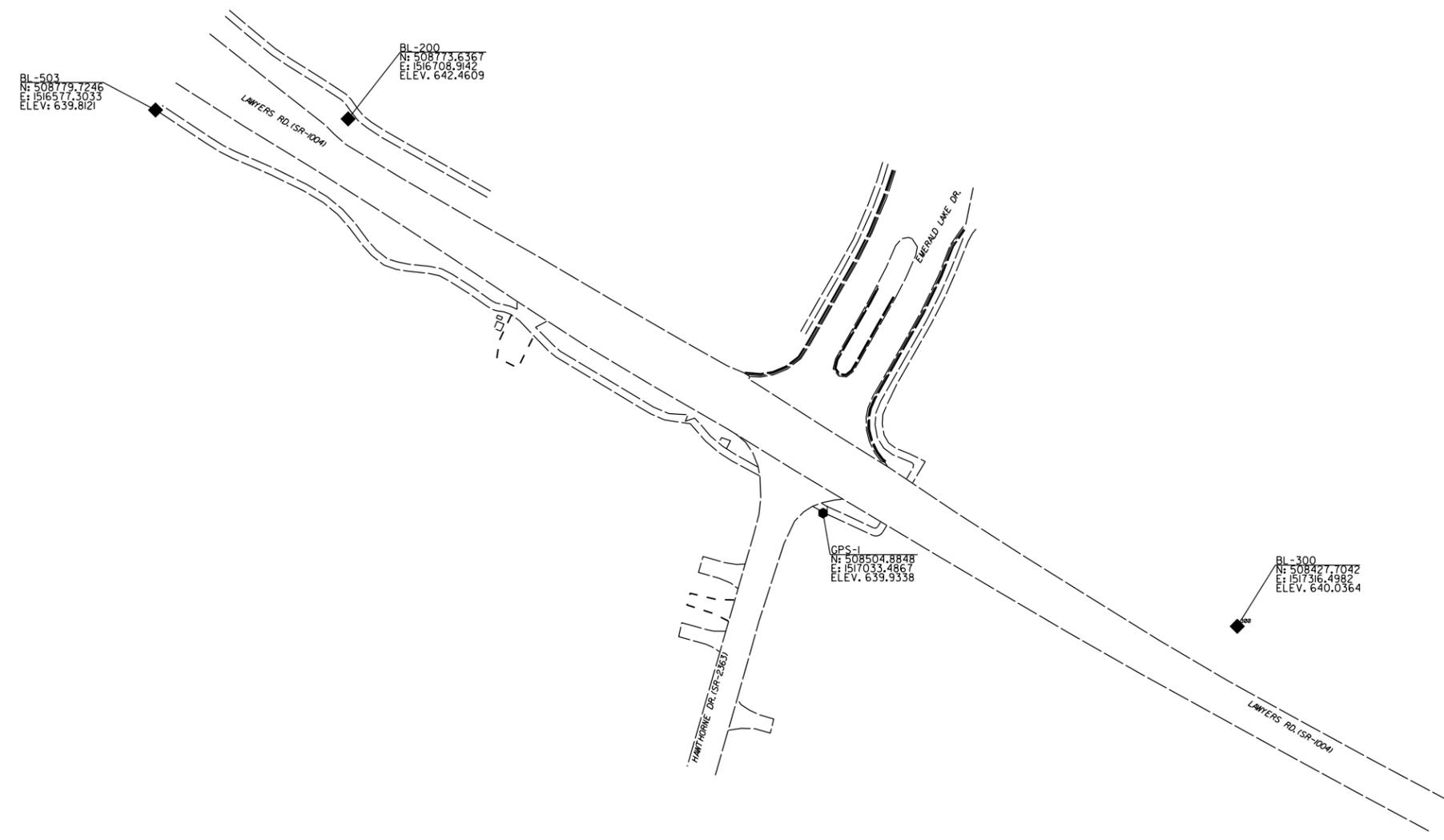


**ROADWAY DESIGN ENGINEER**

SEAL  
034357  
ENGINEER  
MICHAEL EPPSON  
DocuSigned by:  
*[Signature]*  
SIGNATURE A92E75CC0FFB43B...

# SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
44856.3.27	IA
F.A. PROJECT NO. HSIP-1004(067)	



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
	503		508779.7246	1516577.3033	639.81	10+09.58	38.55 RT
	200		508773.6367	1516708.9142	642.46	11+22.95	28.39 LT
	1		508504.8848	1517033.4867	639.93	15+40.57	32.43 RT
	300		508427.7042	1517316.4982	640.04	18+23.71	47.17 LT

**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.

*ROUNDAABOUT AT THE INTERSECTION OF  
LAWYERS RD.(SR-1004),EMERALD LAKE DR.,  
AND HAWTHORNE DR.(SR-2363)*

SCALE	1"=50'		REVISIONS
DATE	11-2020		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		

# RIGHT OF WAY, EASEMENT AND PROPOSED ALIGNMENT SHEET

ROW MARKER IRON PIN & CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	13+75.00	-30.00	508643.8807	1516924.1179
L	14+20.00	30.00	508569.2662	1516931.7116
L	14+25.00	-38.00	508624.9380	1516971.0772
L	14+43.00	38.00	508550.5470	1516947.2870
L	15+75.00	38.00	508482.2140	1517059.9910
L	15+75.00	-36.00	508545.4053	1517098.4990
L	16+10.00	-30.00	508522.0684	1517125.2645
L	16+15.00	30.00	508468.2304	1517098.3115

L			
TYPE	STATION	NORTH	EAST
PC	10+00.00	508817.0932	1516590.8038
PT	12+56.64	508679.2462	1516807.2474
POT	15+00.00	508553.6920	1517015.7203
PC	16+93.18	508453.1671	1517180.6804
PT	20+00.00	508302.0131	1517447.6279

ROW MARKER IRON PIN & CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y	13+03.00	-49.00	508622.8727	1517001.4670
Y	13+60.00	-39.50	508667.6142	1517038.0381
Y	13+29.00	-39.50	508640.7134	1517022.6320
Y	13+60.00	-37.36	508666.5482	1517039.8964
Y	11+57.50	-25.00	508472.0597	1516965.7907
Y	13+60.00	37.64	508629.2785	1517104.9807
Y	13+60.00	39.50	508628.3535	1517106.5917
Y	13+24.00	40.00	508596.8654	1517089.1347
Y	13+02.00	47.00	508574.2957	1517084.2757
Y	11+50.00	25.00	508450.5996	1517011.5697
Y	11+71.00	35.00	508467.8049	1517027.1419

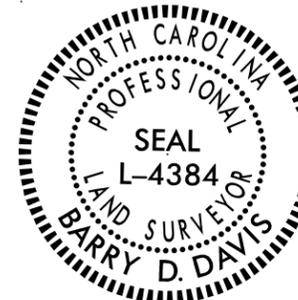
Y			
TYPE	STATION	NORTH	EAST
PC	10+00.00	508313.6565	1516945.8549
PT	12+00.00	508505.6184	1517001.9749
POT	12+50.00	508553.6920	1517015.7203
POT	13+00.00	508595.9178	1517042.4967
PC	13+68.31	508655.1947	1517076.4445
PT	14+10.00	508692.9283	1517094.0580

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 25th day of July 2022

Barry D. Davis, Professional Land Surveyor  
 DocuSigned by: Barry Davis PLS\* L-4384  
 0E2AAE4F48174DC...

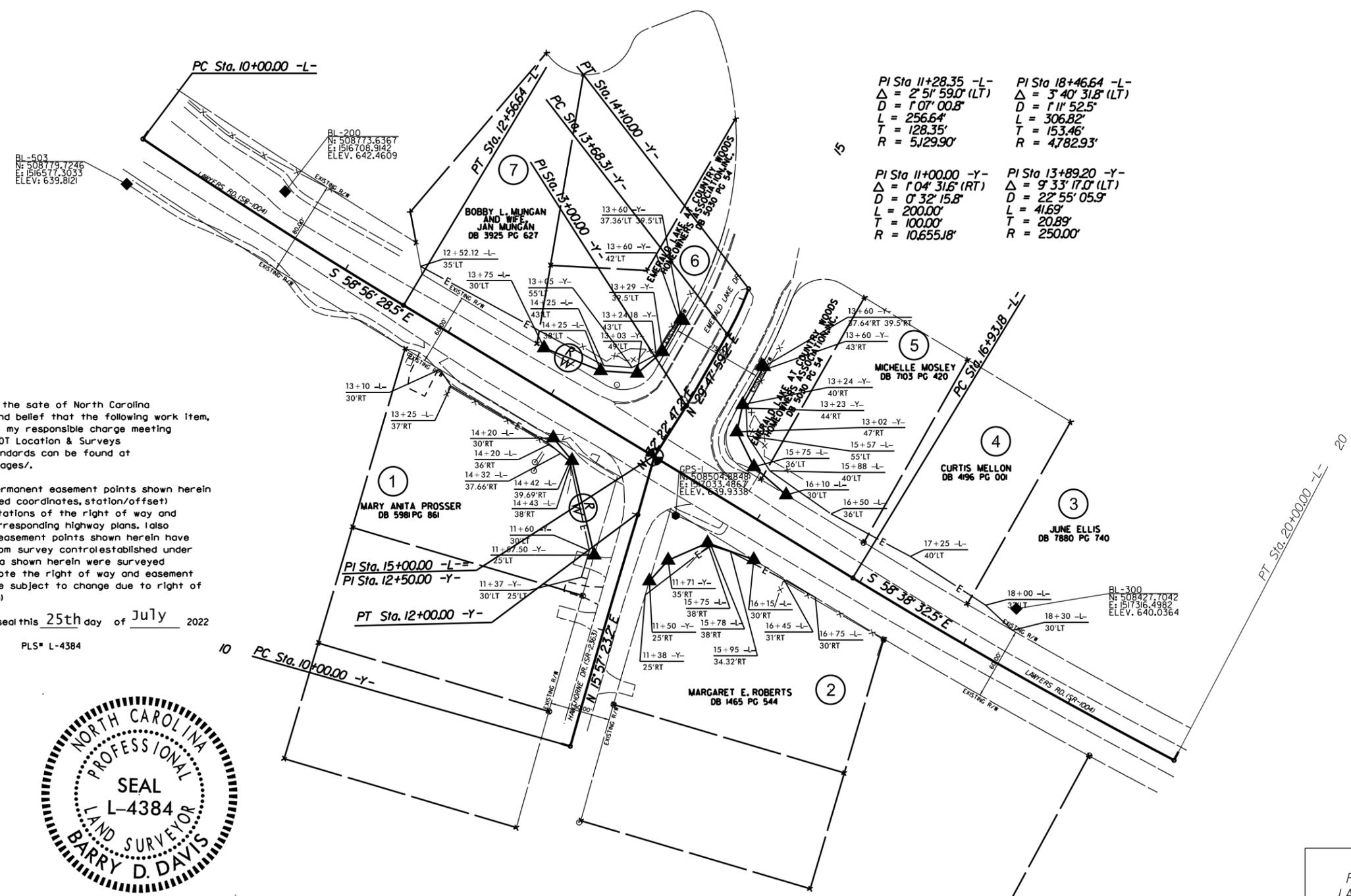


**NOTES:**

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

ROUNDBABOUT AT THE INTERSECTION OF  
LAWYERS RD. (SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR. (SR-2363)

SCALE	N/A		REVISIONS
DATE	7-2022		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		



**PI Sta 11+28.35 -L-**  
 $\Delta = 2' 51' 59.0''$  (LT)  
 $D = 1' 07' 00.8''$   
 $L = 256.64'$   
 $T = 128.35'$   
 $R = 5129.90'$

**PI Sta 18+46.64 -L-**  
 $\Delta = 3' 40' 31.8''$  (LT)  
 $D = 1' 11' 52.5''$   
 $L = 306.82'$   
 $T = 153.46'$   
 $R = 4782.93'$

**PI Sta 11+00.00 -Y-**  
 $\Delta = 1' 04' 31.6''$  (RT)  
 $D = 0' 32' 15.8''$   
 $L = 200.00'$   
 $T = 100.00'$   
 $R = 10,655.18'$

**PI Sta 13+89.20 -Y-**  
 $\Delta = 9' 33' 17.0''$  (LT)  
 $D = 22' 55' 05.9''$   
 $L = 41.69'$   
 $T = 20.89'$   
 $R = 250.00'$

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 25th day of July 2022

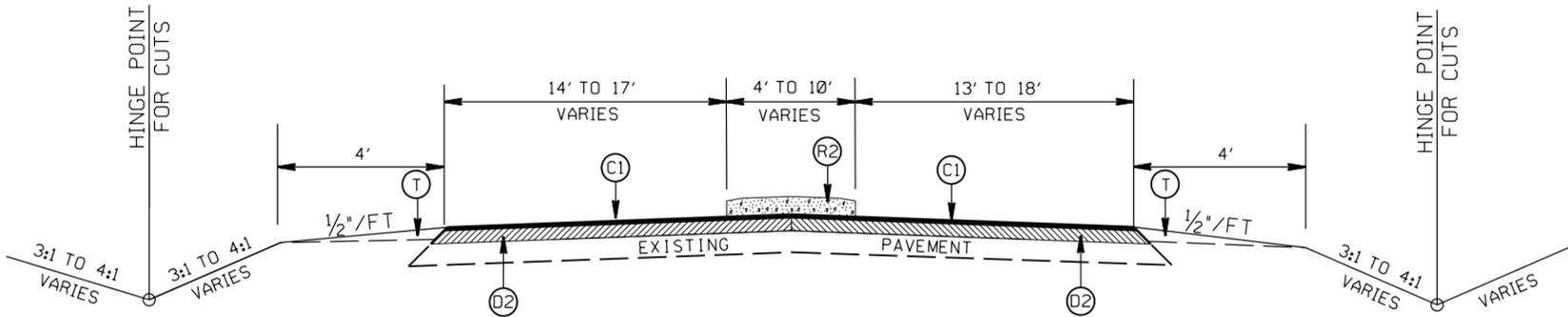
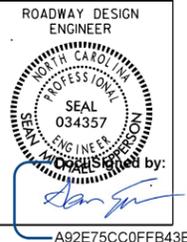
Barry D. Davis, Professional Land Surveyor PLS# L-4384

DocuSigned by:  
*Barry Davis*  
0E2AAE4F48174DC...

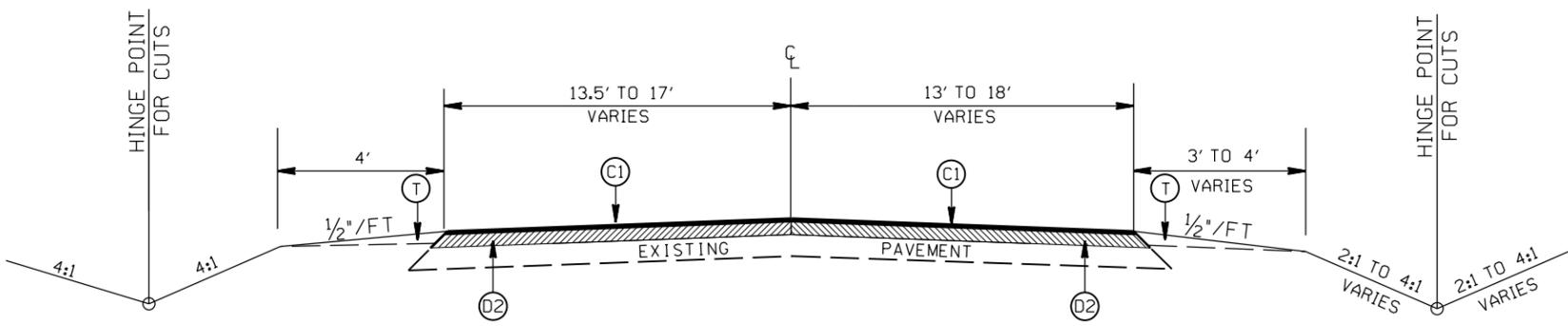


ROUNDABOUT AT THE INTERSECTION OF  
LAWYERS RD.(SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR.(SR-2363)

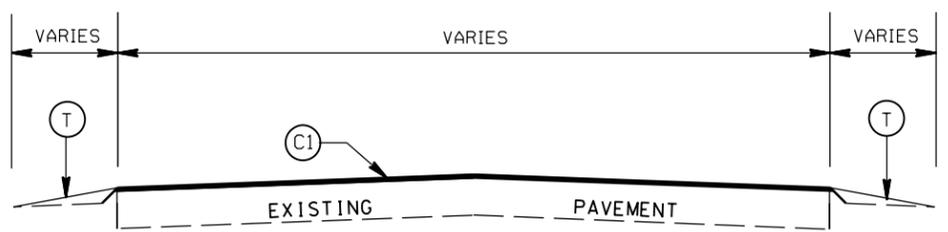
SCALE	1"=50'		REVISIONS
DATE	7-2022		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		



TYPICAL SECTION NO. 3  
STA. 13+21.20 TO 14+03.89 -L-



TYPICAL SECTION NO. 2  
STA. 11+55.00 TO 13+21.20 -L-



TYPICAL SECTION NO. 1  
STA. 11+30.00 TO 11+55.00 -L-  
STA. 18+25.00 TO 18+50.00 -L-  
STA. 11+00.00 TO 11+25.00 -Y-

PAVEMENT SCHEDULE

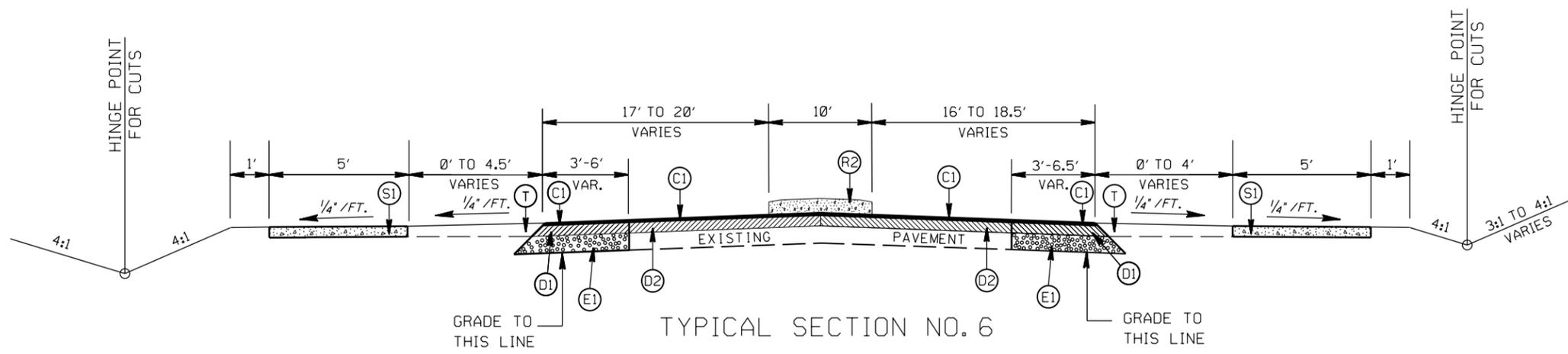
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R5)	PROP. 8" MONOLITHIC CONC. ISLAND (KEYED IN), CLASS AA CONCRETE
(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL

ROUNDABOUT AT THE INTERSECTION OF  
LAWYERS RD. (SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR. (SR-2363)

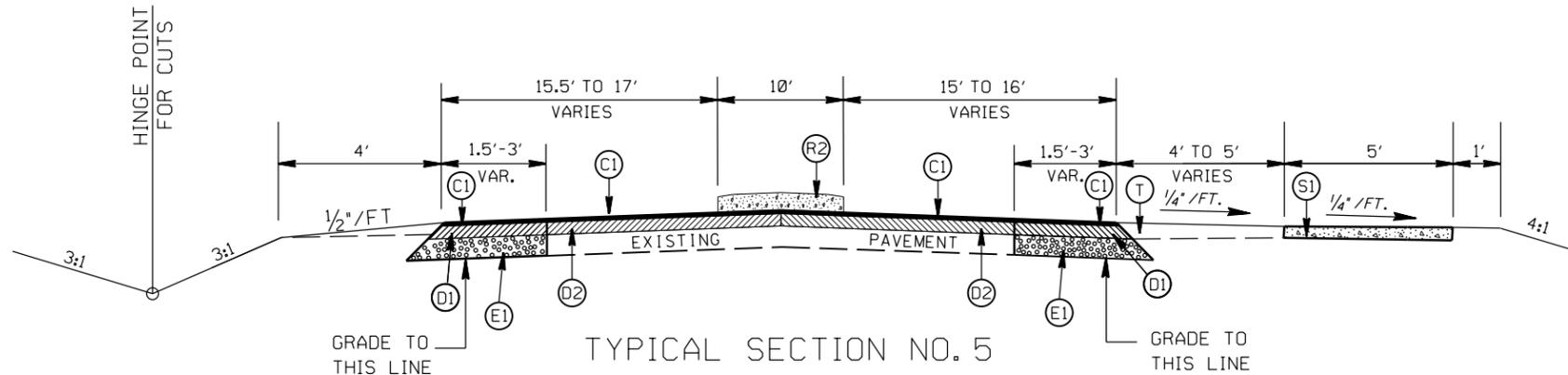
SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		



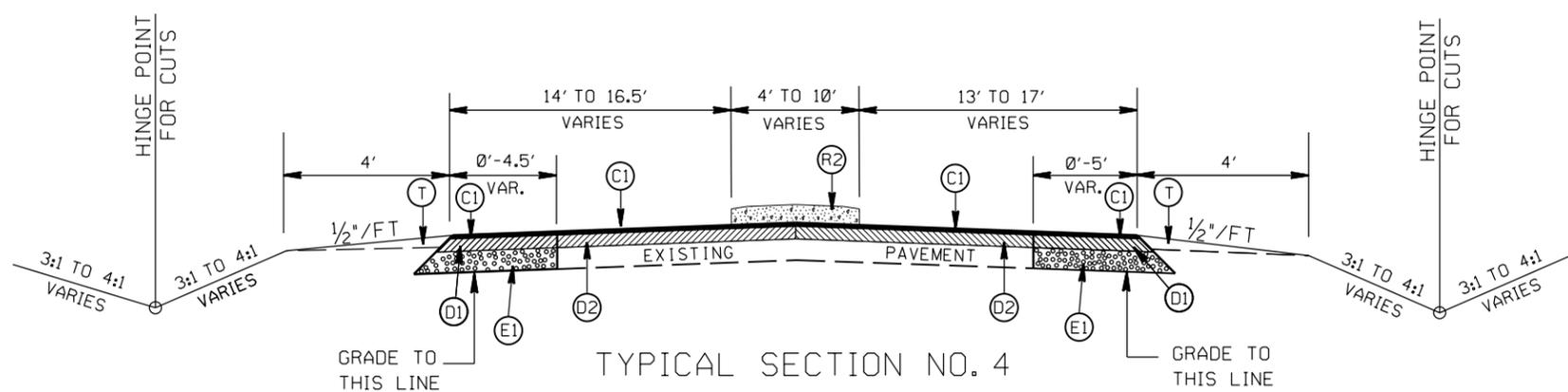
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TYPICAL SECTION NO. 6  
 STA. 14+7.50 TO 14+28.89 -L-  
 STA. 15+75.00 TO 15+82.50 -L-



TYPICAL SECTION NO. 5  
 STA. 14+11.31 TO 14+17.50 -L-



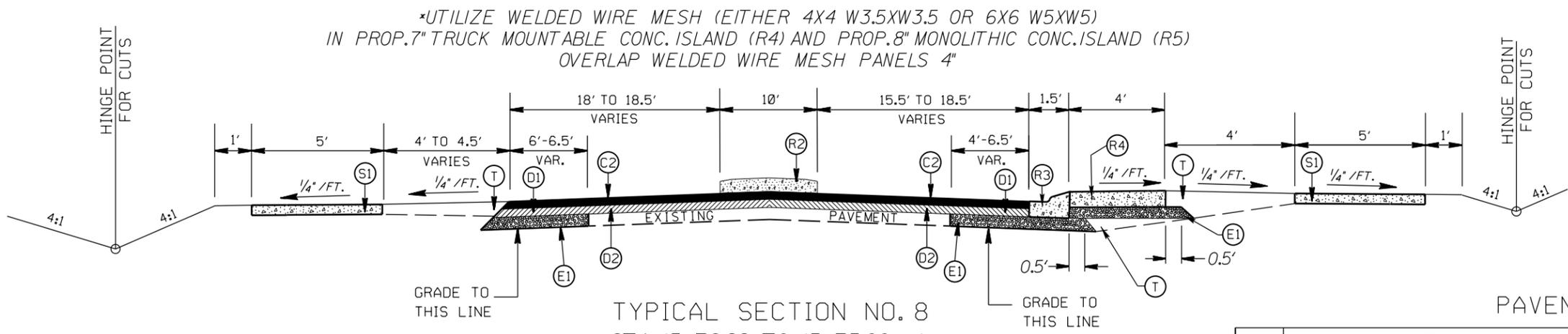
TYPICAL SECTION NO. 4  
 STA. 14+03.89 TO 14+11.31 -L-  
 STA. 15+82.50 TO 16+91.99 -L-

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. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R5)	PROP. 8" MONOLITHIC CONC. ISLAND (KEYED IN), CLASS AA CONCRETE
(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL

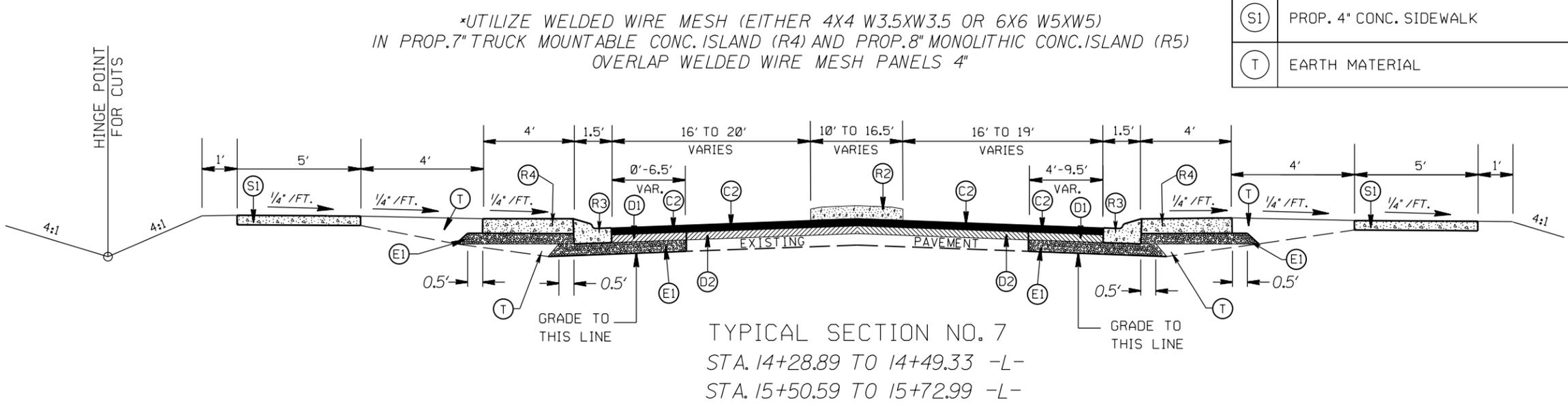
ROUNDABOUT AT THE INTERSECTION OF  
 LAWYERS RD.(SR-1004), EMERALD LAKE DR.,  
 AND HAWTHORNE DR.(SR-2363)

SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		



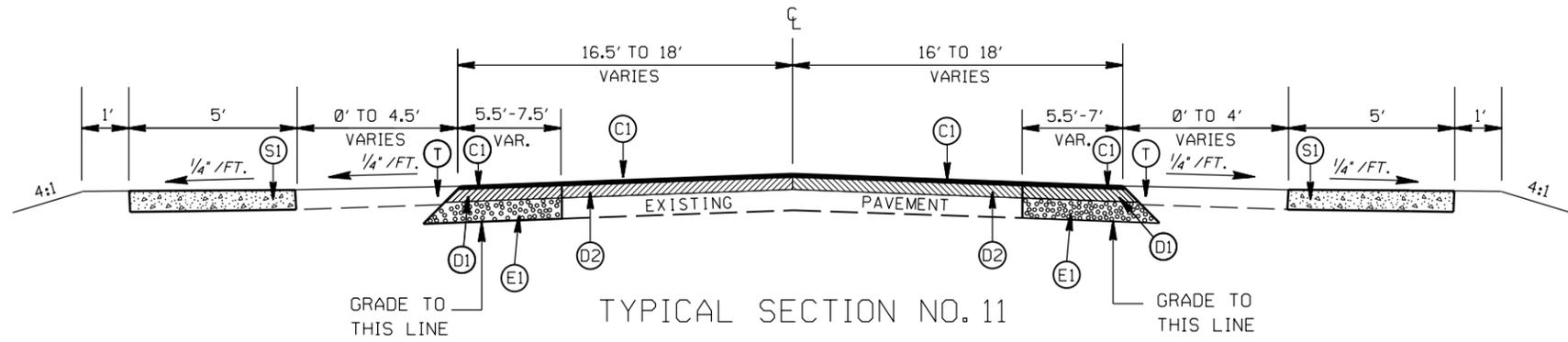
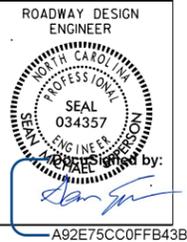
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
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(T)	EARTH MATERIAL

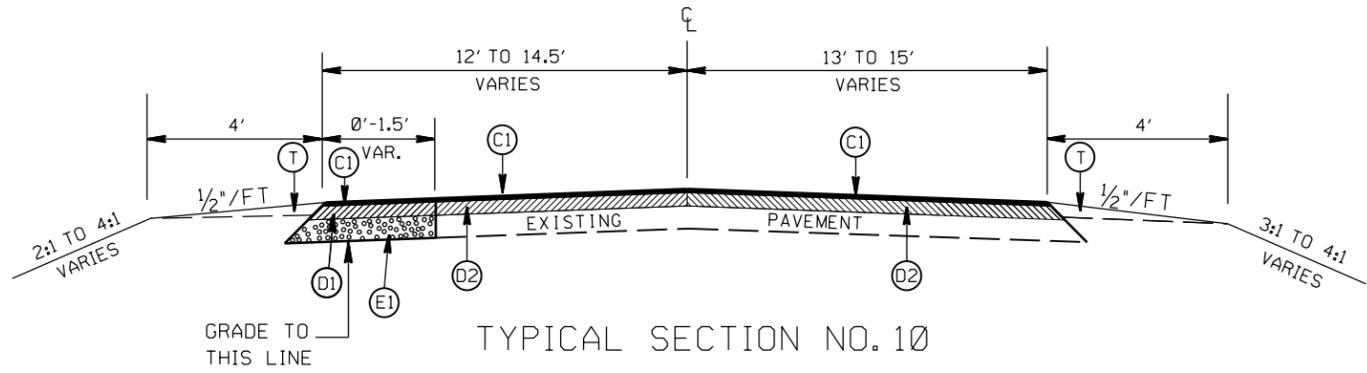


ROUNDBOUT AT THE INTERSECTION OF  
LAWYERS RD. (SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR. (SR-2363)

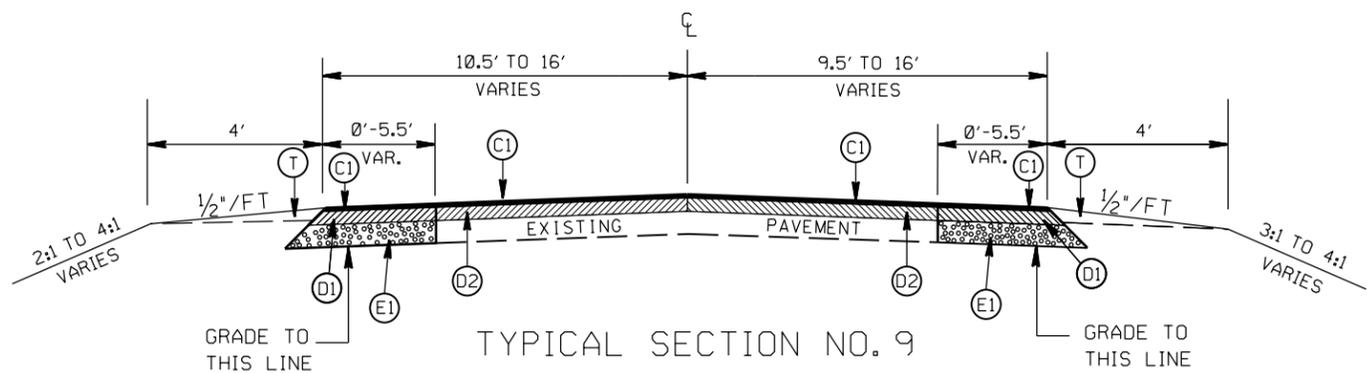
SCALE	N/A		REVISIONS
DATE	5-2021		
DWG. BY	CEB		
DESIGN BY	CEB		
APPROVED	JDH		



TYPICAL SECTION NO. 11  
STA. 11+67.49 TO 11+75.00 -Y-



TYPICAL SECTION NO. 10  
STA. 17+32.93 TO 18+25.00 -L-



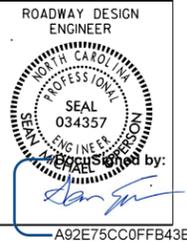
TYPICAL SECTION NO. 9  
STA. 16+91.99 TO 17+32.93 -L-  
STA. 11+25.00 TO 11+67.49 -Y-

PAVEMENT SCHEDULE

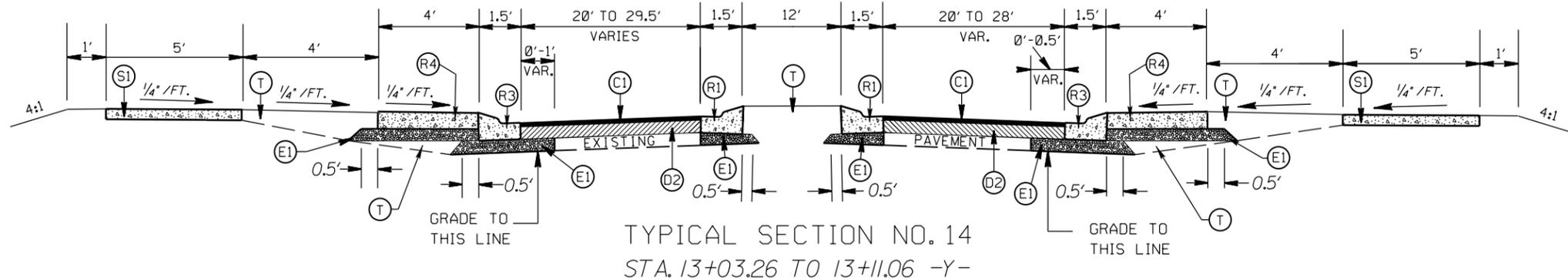
(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
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(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL

ROUNDABOUT AT THE INTERSECTION OF  
LAWYERS RD.(SR-1004),EMERALD LAKE DR.,  
AND HAWTHORNE DR.(SR-2363)

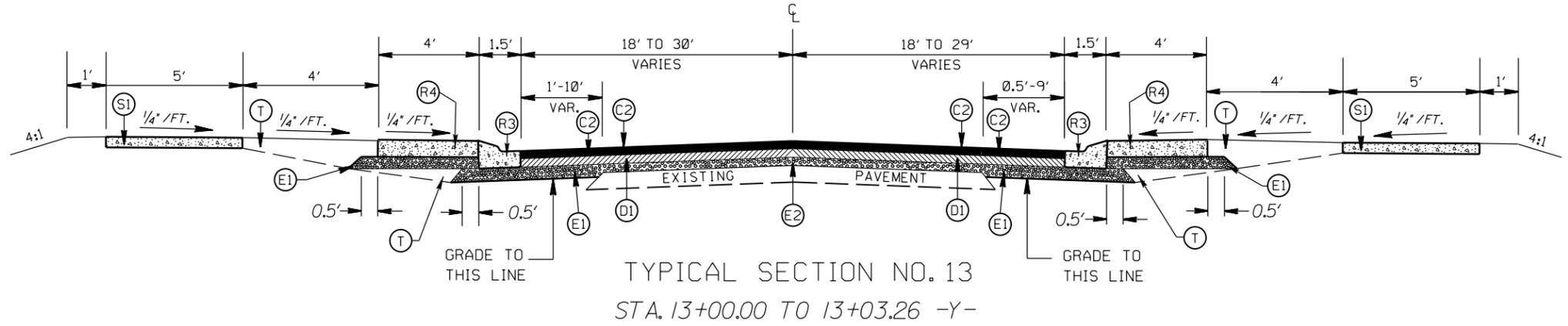
SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		



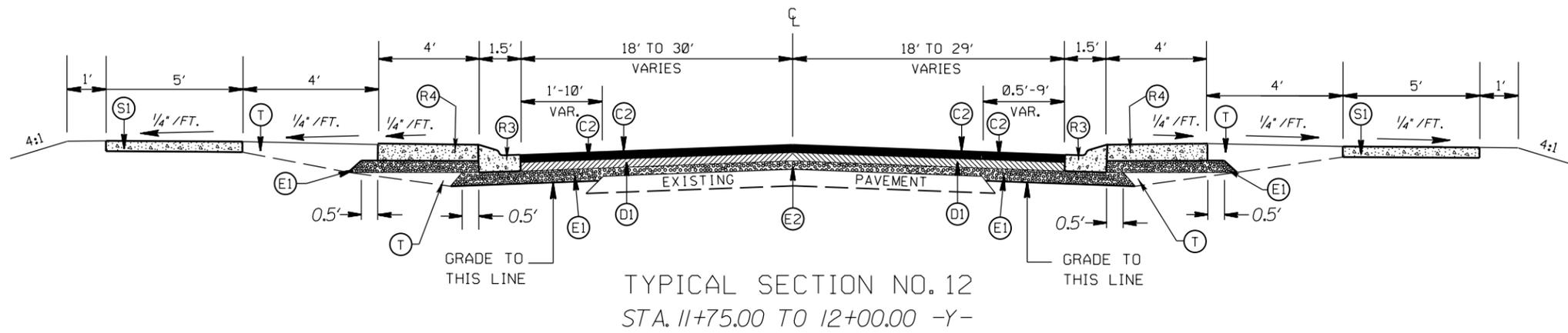
\*UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)  
 IN PROP.7" TRUCK MOUNTABLE CONC.ISLAND (R4) AND PROP.8" MONOLITHIC CONC.ISLAND (R5)  
 OVERLAP WELDED WIRE MESH PANELS 4"



\*UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)  
 IN PROP.7" TRUCK MOUNTABLE CONC.ISLAND (R4) AND PROP.8" MONOLITHIC CONC.ISLAND (R5)  
 OVERLAP WELDED WIRE MESH PANELS 4"



\*UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)  
 IN PROP.7" TRUCK MOUNTABLE CONC.ISLAND (R4) AND PROP.8" MONOLITHIC CONC.ISLAND (R5)  
 OVERLAP WELDED WIRE MESH PANELS 4"

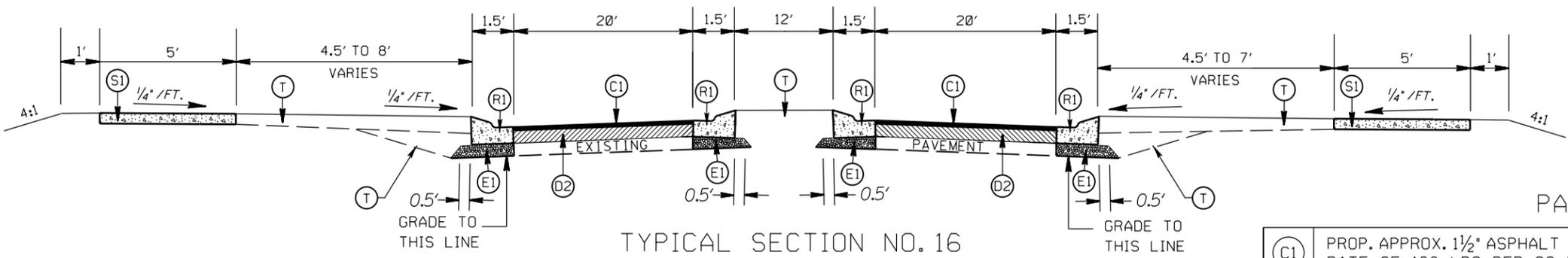
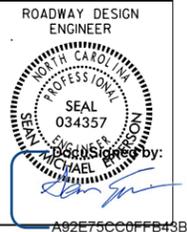


PAVEMENT SCHEDULE

(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. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R5)	PROP. 8" MONOLITHIC CONC. ISLAND (KEYED IN), CLASS AA CONCRETE
(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL

ROUNDABOUT AT THE INTERSECTION OF  
 LAWYERS RD.(SR-1004),EMERALD LAKE DR.,  
 AND HAWTHORNE DR.(SR-2363)

SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		

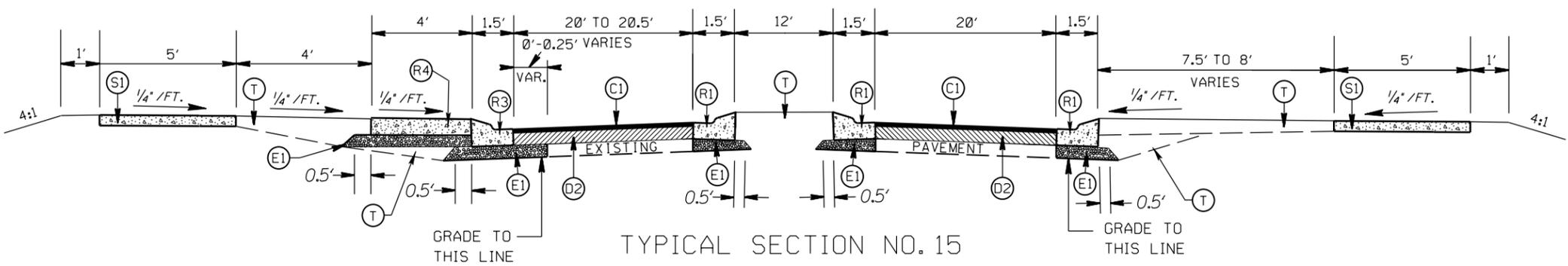


TYPICAL SECTION NO. 16  
 STA. 13+16.12 TO 13+34.00 -Y-

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. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R5)	PROP. 8" MONOLITHIC CONC. ISLAND (KEYED IN), CLASS AA CONCRETE
(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL

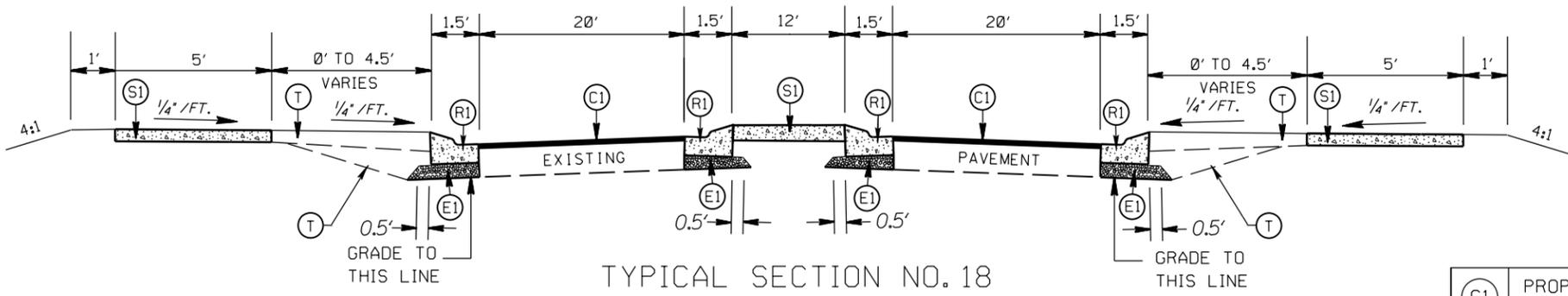
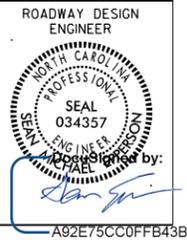
\*UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)  
 IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R4) AND PROP. 8" MONOLITHIC CONC. ISLAND (R5)  
 OVERLAP WELDED WIRE MESH PANELS 4"



TYPICAL SECTION NO. 15  
 STA. 13+11.06 TO 13+16.12 -Y-

ROUNDABOUT AT THE INTERSECTION OF  
 LAWYERS RD. (SR-1004), EMERALD LAKE DR.,  
 AND HAWTHORNE DR. (SR-2363)

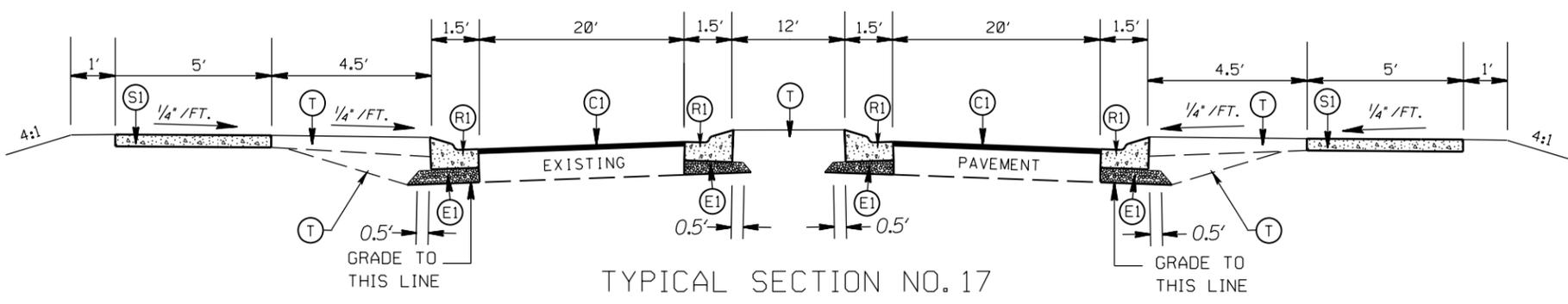
SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		



TYPICAL SECTION NO. 18  
STA. 13+39.00 TO 13+56.50 -Y-

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. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R5)	PROP. 8" MONOLITHIC CONC. ISLAND (KEYED IN), CLASS AA CONCRETE
(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL



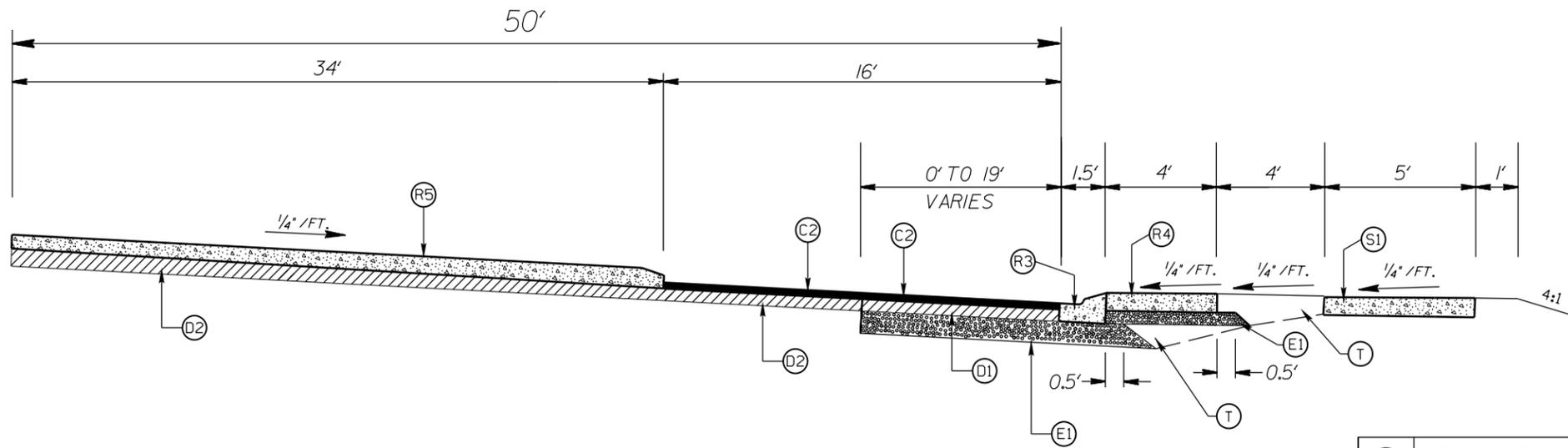
TYPICAL SECTION NO. 17  
STA. 13+34.00 TO 13+39.00 -Y-

ROUNDABOUT AT THE INTERSECTION OF  
LAWYERS RD.(SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR.(SR-2363)

SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		

\*UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)  
 IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R4) AND PROP. 8" MONOLITHIC CONC. ISLAND (R5)  
 OVERLAP WELDED WIRE MESH PANELS 4"

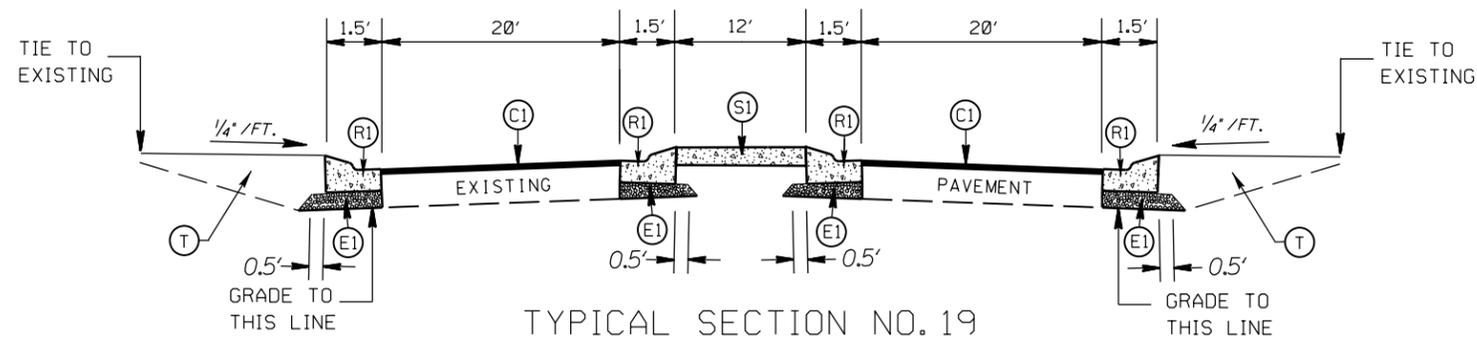
PROJECT NO.	SHEET NO.
44856.3.27	2G
F.A. PROJECT NO. HSP-1004(067)	
ROADWAY DESIGN ENGINEER	
	
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TYPICAL SECTION NO. 20  
 ROUNDABOUT

PAVEMENT SCHEDULE

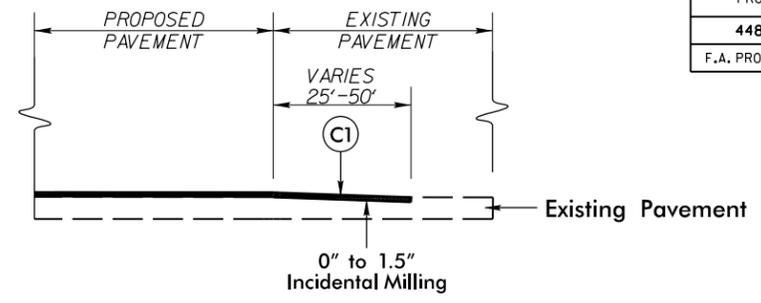
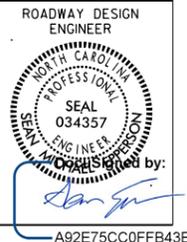
(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R5)	PROP. 8" MONOLITHIC CONC. ISLAND (KEYED IN), CLASS AA CONCRETE
(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL



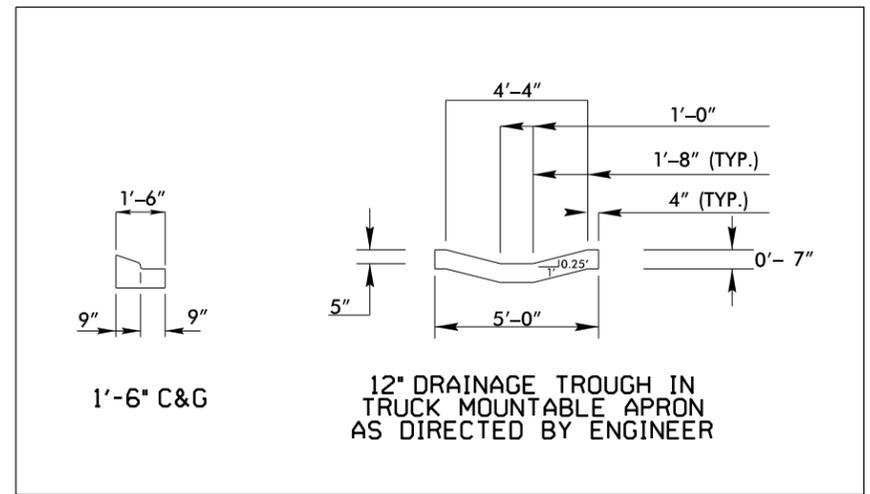
TYPICAL SECTION NO. 19  
 STA. 13+56.50 TO 13+59.00 -Y-

ROUNDABOUT AT THE INTERSECTION OF  
 LAWYERS RD. (SR-1004), EMERALD LAKE DR.,  
 AND HAWTHORNE DR. (SR-2363)

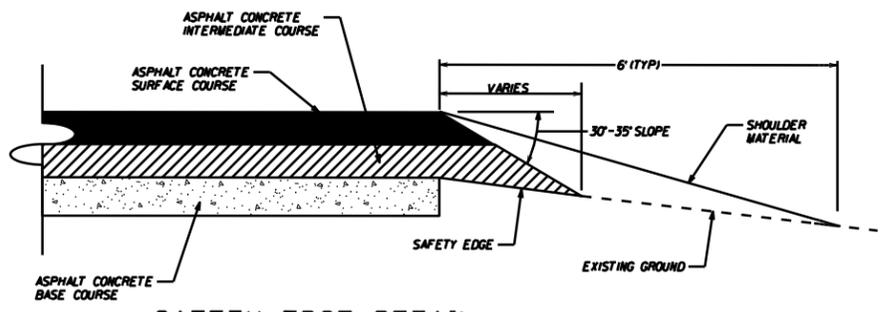
SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		



**INCIDENTAL MILLING DETAIL  
EXISTING ROAD TIE-IN  
PROJECT TIE-INS**



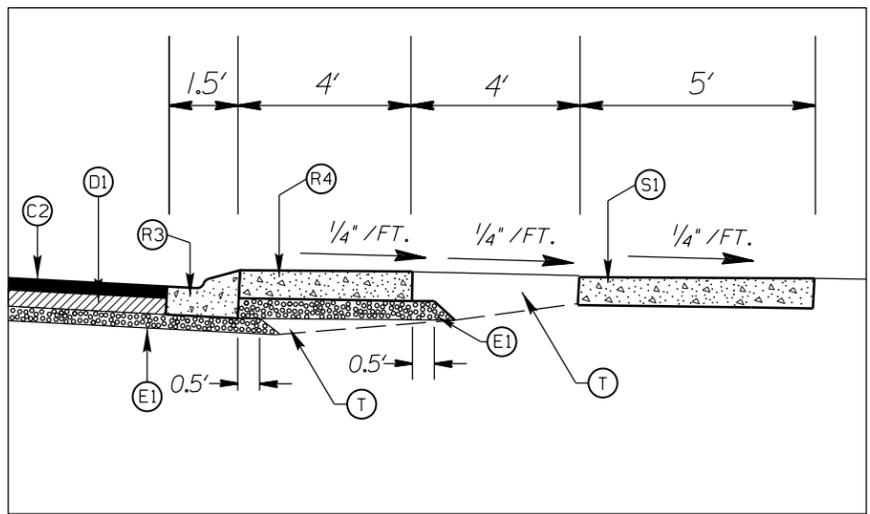
**DRAINAGE TROUGH DETAIL**



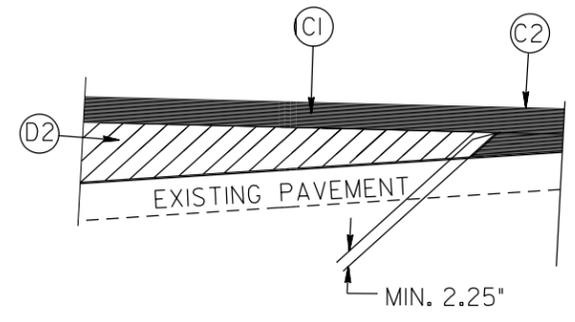
**SAFETY EDGE DETAIL**

**PAVEMENT SCHEDULE**

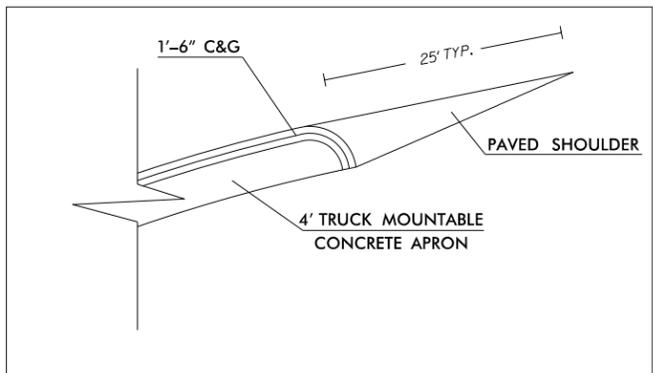
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R2)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R3)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R5)	PROP. 8" MONOLITHIC CONC. ISLAND (KEYED IN), CLASS AA CONCRETE
(S1)	PROP. 4" CONC. SIDEWALK
(T)	EARTH MATERIAL



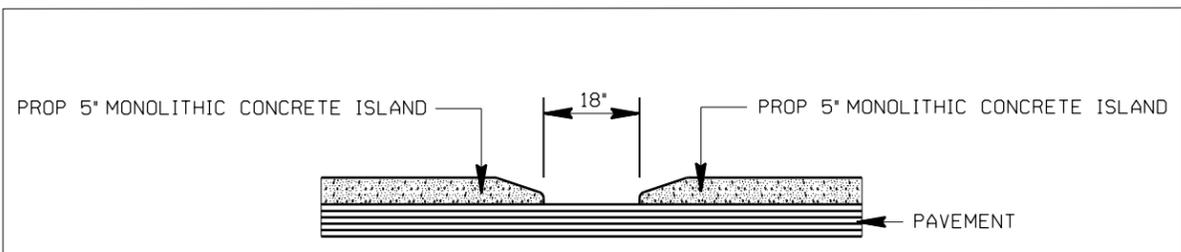
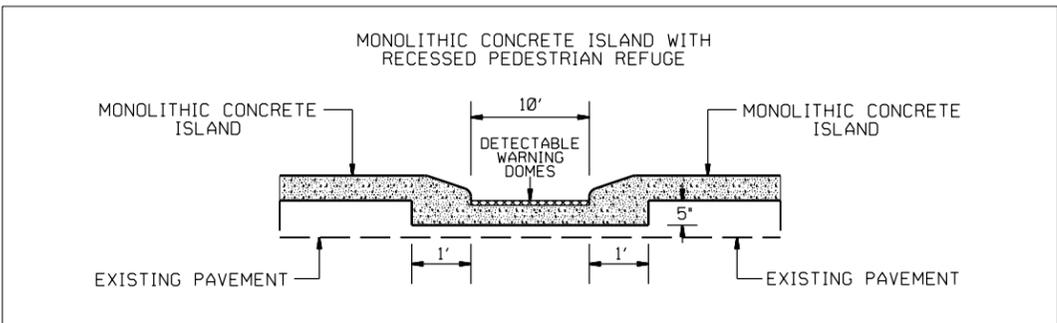
**APRON DETAIL**



**WEDGING DETAIL**



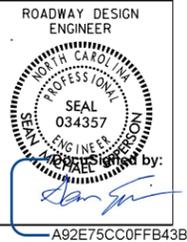
**CURB DETAIL**



**DETAIL 1**

ROUNDABOUT AT THE INTERSECTION OF  
LAWYERS RD.(SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR.(SR-2363)

SCALE	N/A		REVISIONS
DATE	9-2020		
DWG. BY	DLS		
DESIGN BY	CEB		
APPROVED	JDH		

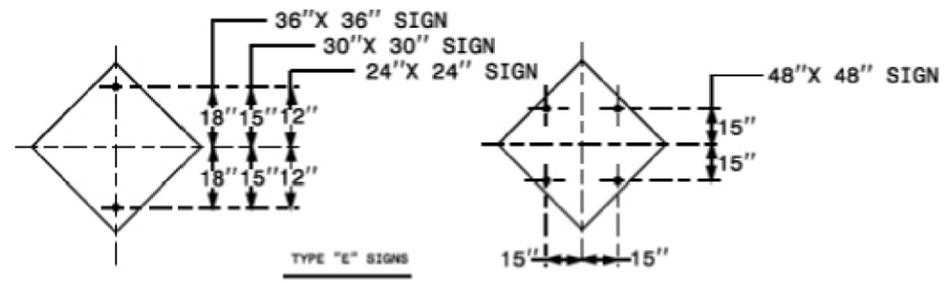


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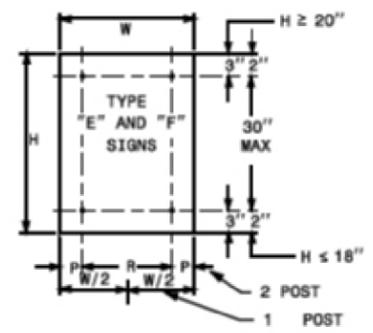
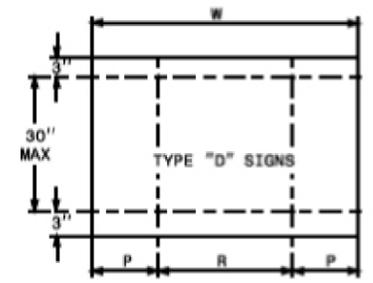
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS



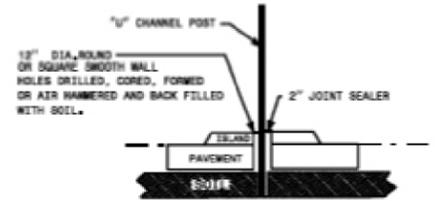
TYPE "E" SIGNS



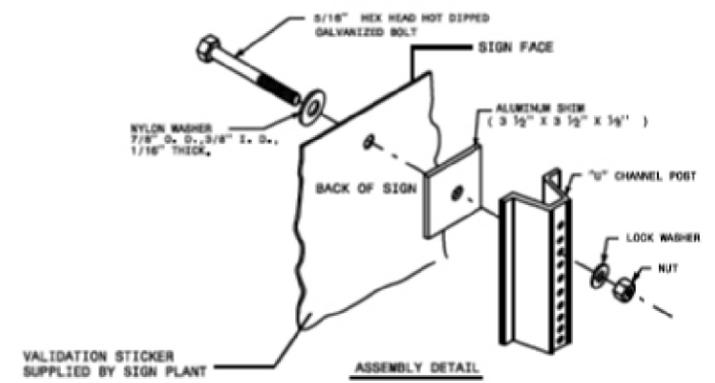
	NO. SUPPORTS		
	2	3*	4
P	.207W	.145W	.107W
R	.586W	.355W	.262W

UNITS ON ATTACHED SHEET  
\*MINIMUM 4 FT. BETWEEN CHANNEL POSTS

HOLE PUNCHING DETAIL



DETAIL FOR INSTALLATION OF CHANNEL POST IN CONCRETE



ASSEMBLY DETAIL

VALIDATION STICKER SUPPLIED BY SIGN PLANT

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

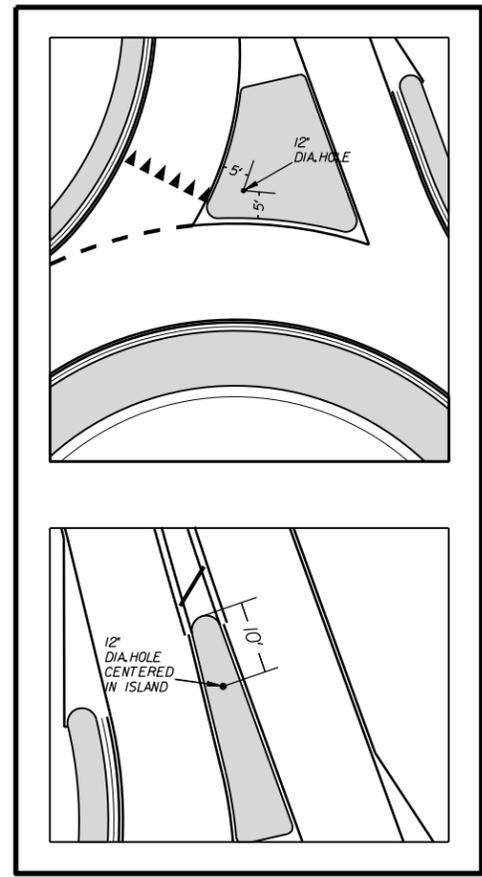
1-12

ENGLISH STANDARD DRAWING FOR  
MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

SHEET 2 OF 2

904.50

12" DIA. HOLE LOCATION FOR SIGN U-CHANNEL POST IN SPLITTER ISLANDS



SHEET 2 OF 2

904.50

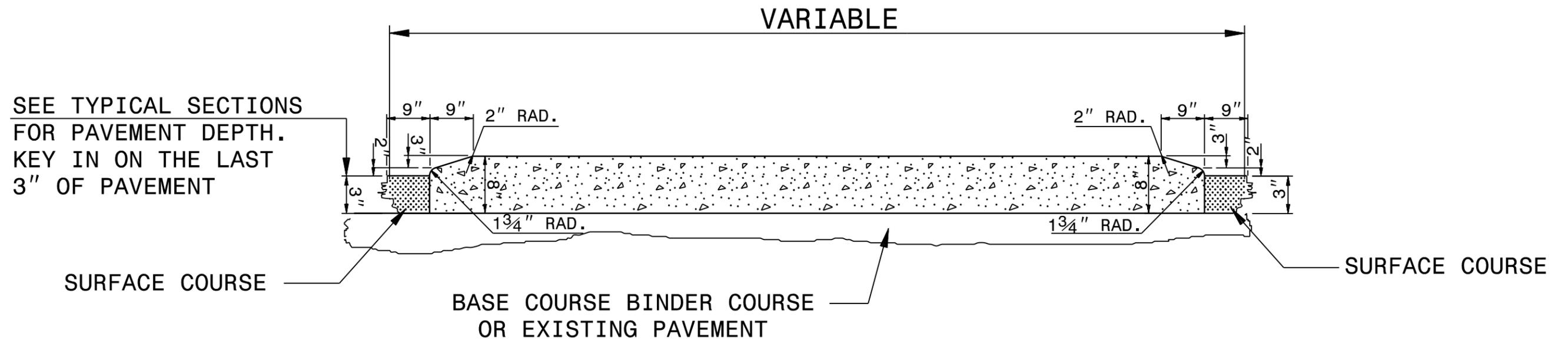
ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD.(SR-1004), EMERALD LAKE DR., AND HAWTHORNE DR.(SR-2363)

SCALE	N/A
DATE	9-2020
DWG. BY	DLS
DESIGN BY	CEB
APPROVED	JDH



REVISIONS	

\*UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)  
 IN PROP.7" TRUCK MOUNTABLE CONC.ISLAND (R4) AND PROP.8" MONOLITHIC CONC.ISLAND (R5)  
 OVERLAP WELDED WIRE MESH PANELS 4"



**5" MONOLITHIC CONCRETE ISLAND**  
**(KEYED IN 3") ON ASPHALT CONCRETE**  
**PAVEMENT**

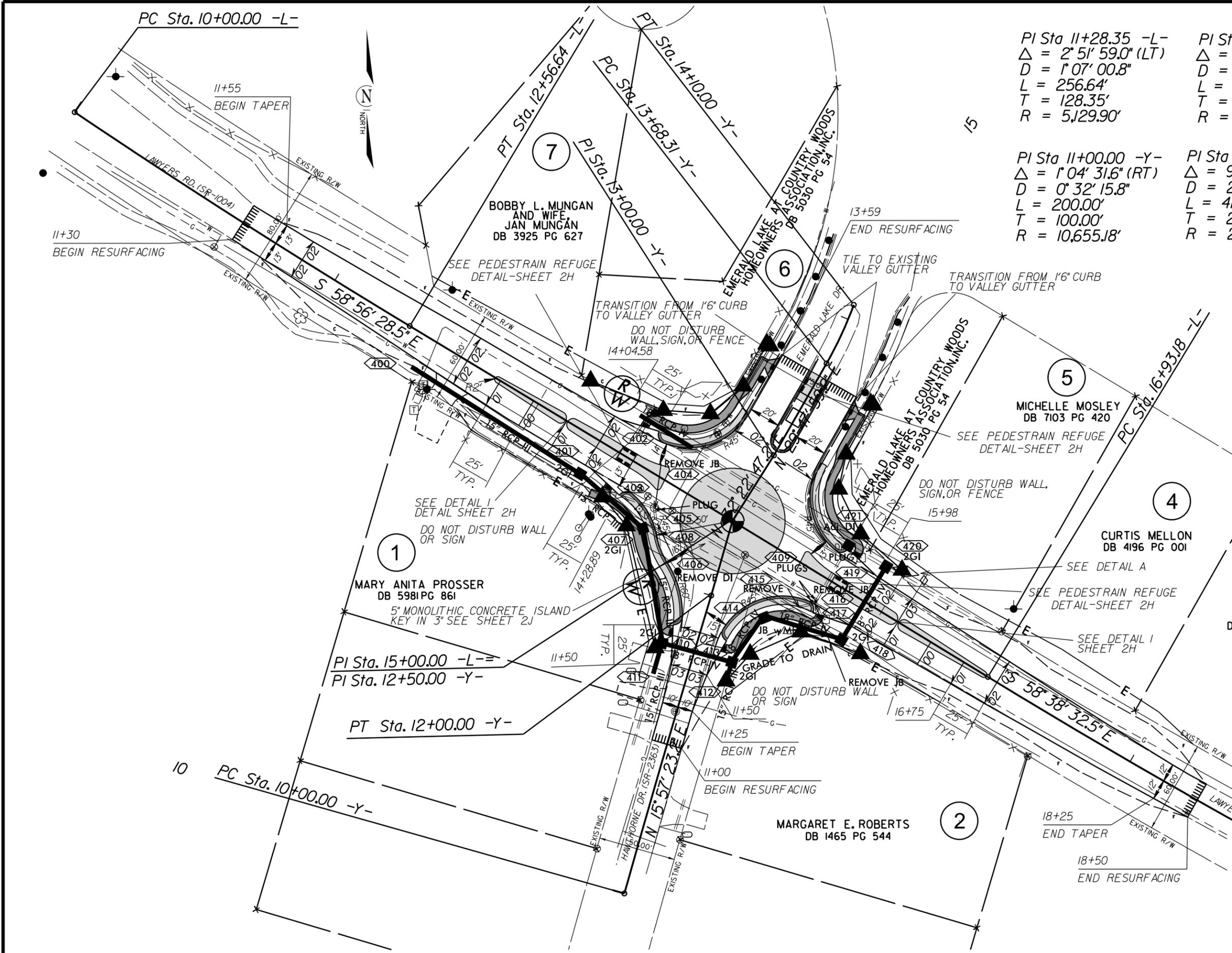
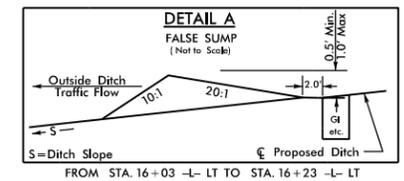
ROUNDABOUT AT THE INTERSECTION OF  
 LAWYERS RD.(SR-1004),EMERALD LAKE DR.,  
 AND HAWTHORNE DR.(SR-2363)

SCALE	N/A		REVISIONS
DATE	10-2020		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		





<b>PI Sta 11+28.35 -L-</b> $\Delta = 2^{\circ} 51' 59.0''$ (LT) $D = 1^{\circ} 07' 00.8''$ $L = 256.64'$ $T = 128.35'$ $R = 5,129.90'$	<b>PI Sta 18+46.64 -L-</b> $\Delta = 3^{\circ} 40' 31.8''$ (LT) $D = 1^{\circ} 11' 52.5''$ $L = 306.82'$ $T = 153.46'$ $R = 4,782.93'$
<b>PI Sta 11+00.00 -Y-</b> $\Delta = 1^{\circ} 04' 31.6''$ (RT) $D = 0^{\circ} 32' 15.8''$ $L = 200.00'$ $T = 100.00'$ $R = 10,655.18'$	<b>PI Sta 13+89.20 -Y-</b> $\Delta = 9^{\circ} 33' 17.0''$ (LT) $D = 22^{\circ} 55' 05.9''$ $L = 41.69'$ $T = 20.89'$ $R = 250.00'$



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

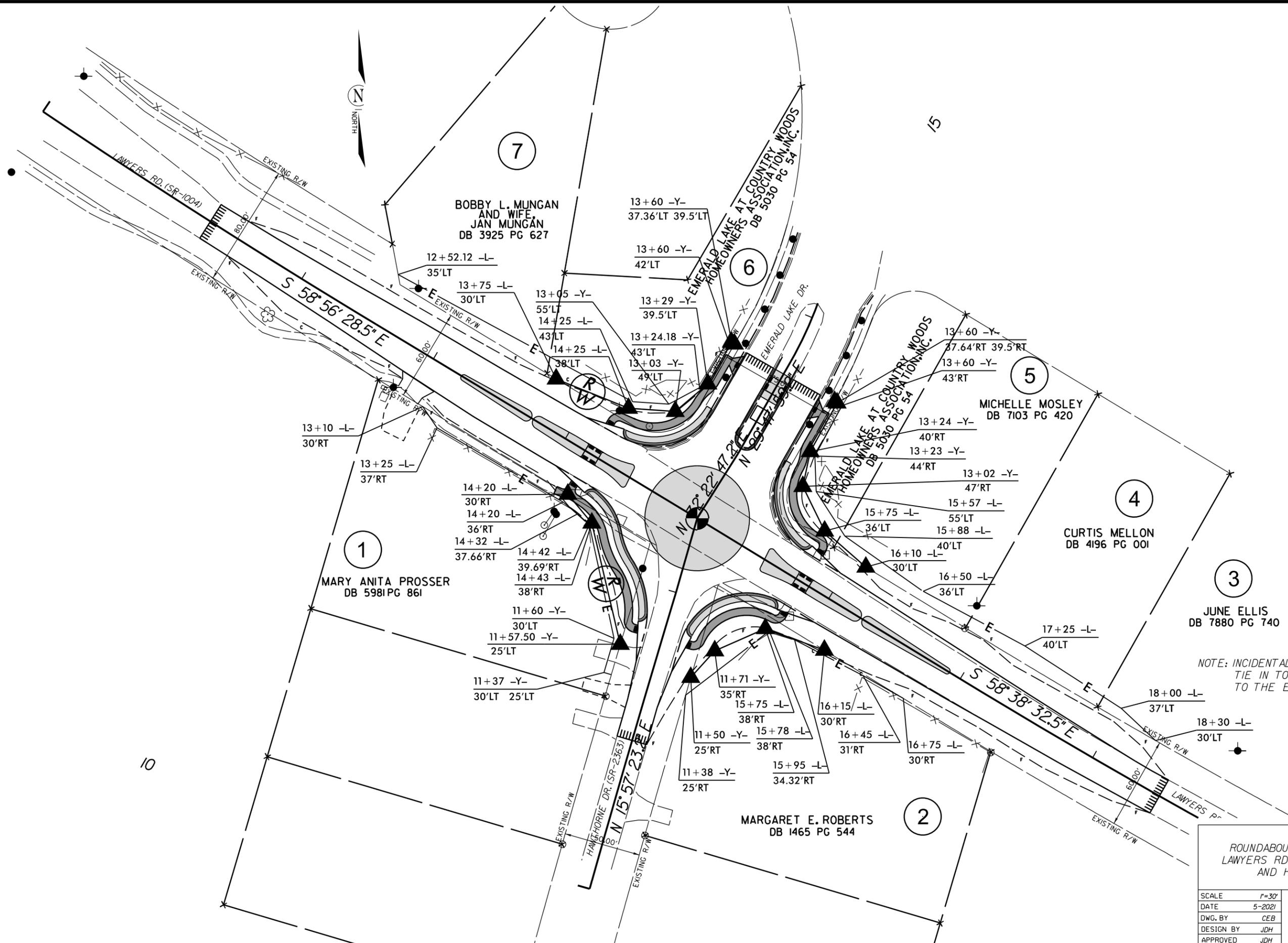
ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD (SR-1004), EMERALD LAKE DR., AND HAWTHORNE DR. (SR-2363)

SCALE	r=30'		REVISIONS
DATE	5-2021		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		

ROADWAY DESIGN  
ENGINEER



A92E75CC0FFB43E



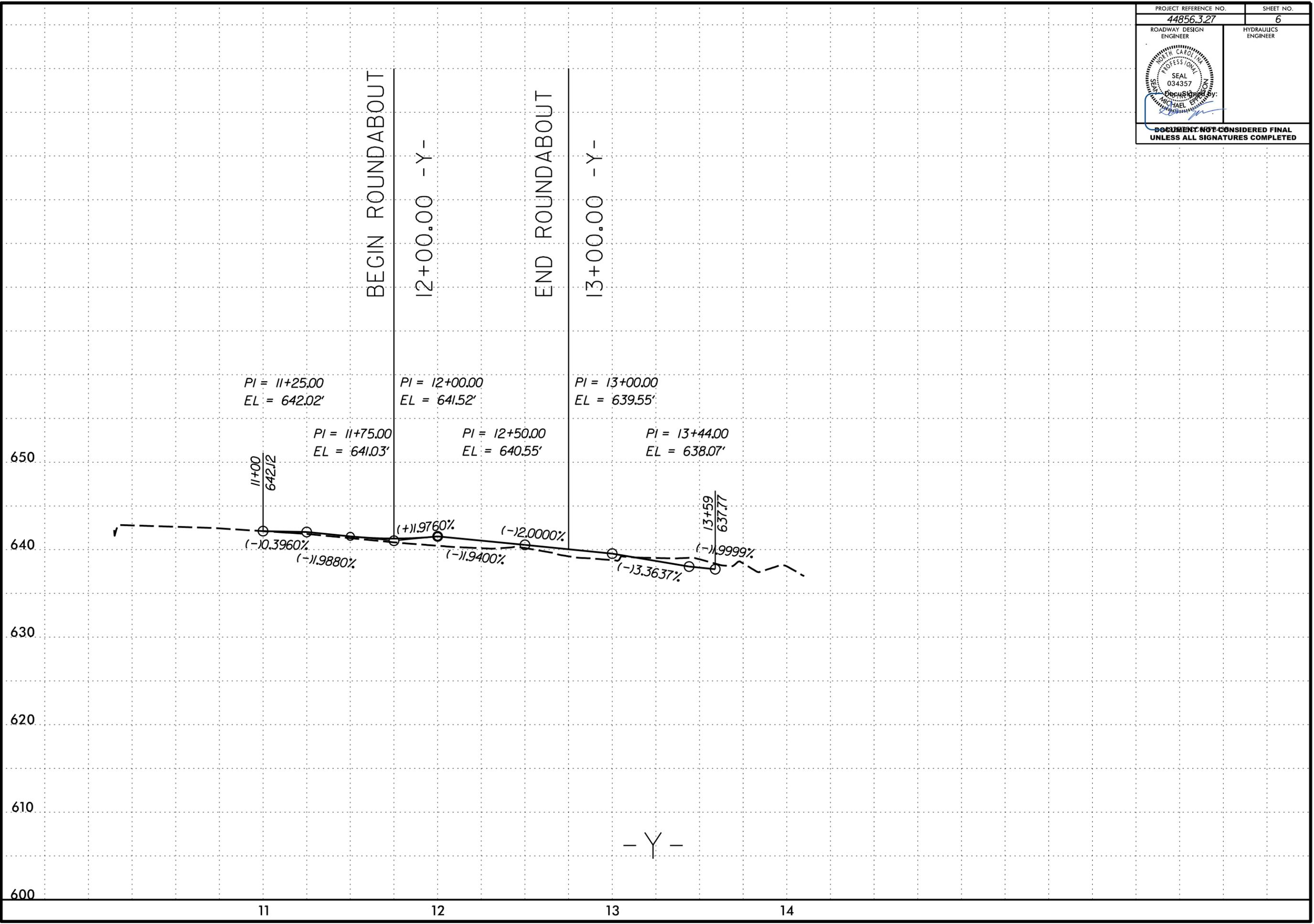
NOTE: INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

ROUNDABOUT AT THE INTERSECTION OF  
LAWYERS RD (SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR. (SR-2363)

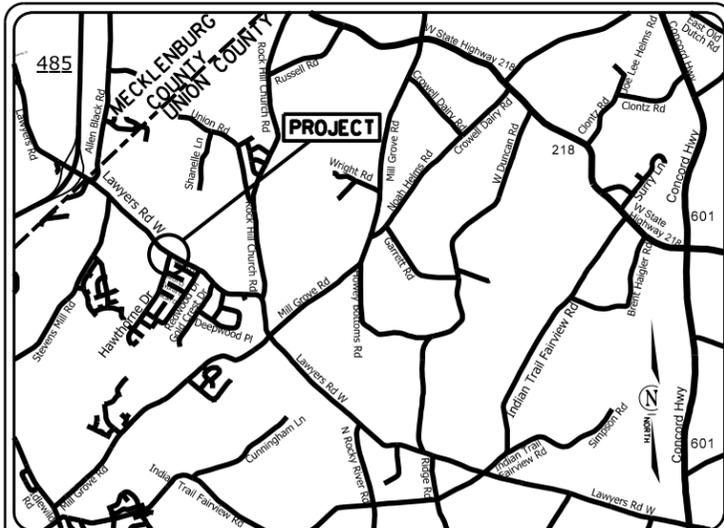
SCALE	r=30'		REVISIONS
DATE	5-2021		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		



19-JUL-2022 14:34  
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 \$\$\$\$ STRAIGHT \$\$\$\$



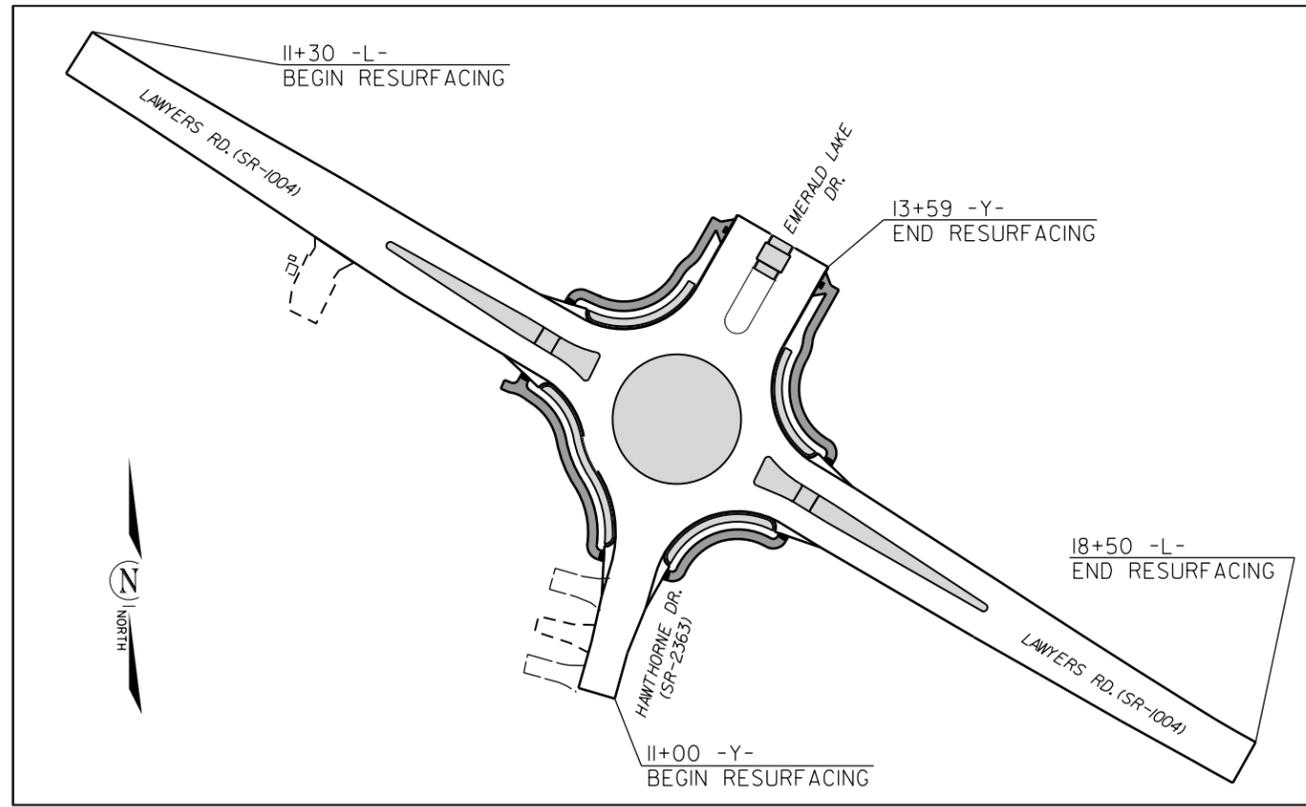
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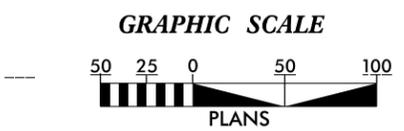
**VICINITY MAP**  
NOT TO SCALE

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

**LOCATION: INTERSECTION OF LAWYERS RD. (SR-1004), EMERALD LAKE DR.,  
AND HAWTHORNE DR. (SR-2363)**



INSTALL PERIMETER EROSION CONTROL MEASURES  
DURING INITIAL CLEARING PHASE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH  
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000  
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019  
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared In the Office of:  
**DDC UNIT DIVISION 10**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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 J
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 J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type J
1630.05 Temporary Diversion	1640.01 Coir Fiber Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

**EROSION AND SEDIMENT CONTROL MEASURES**

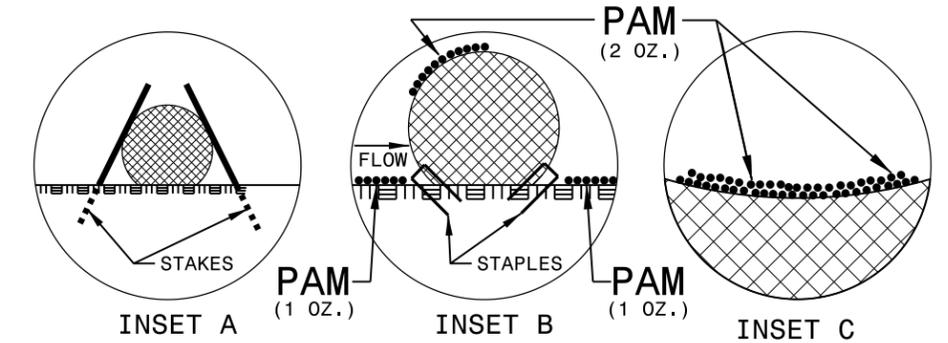
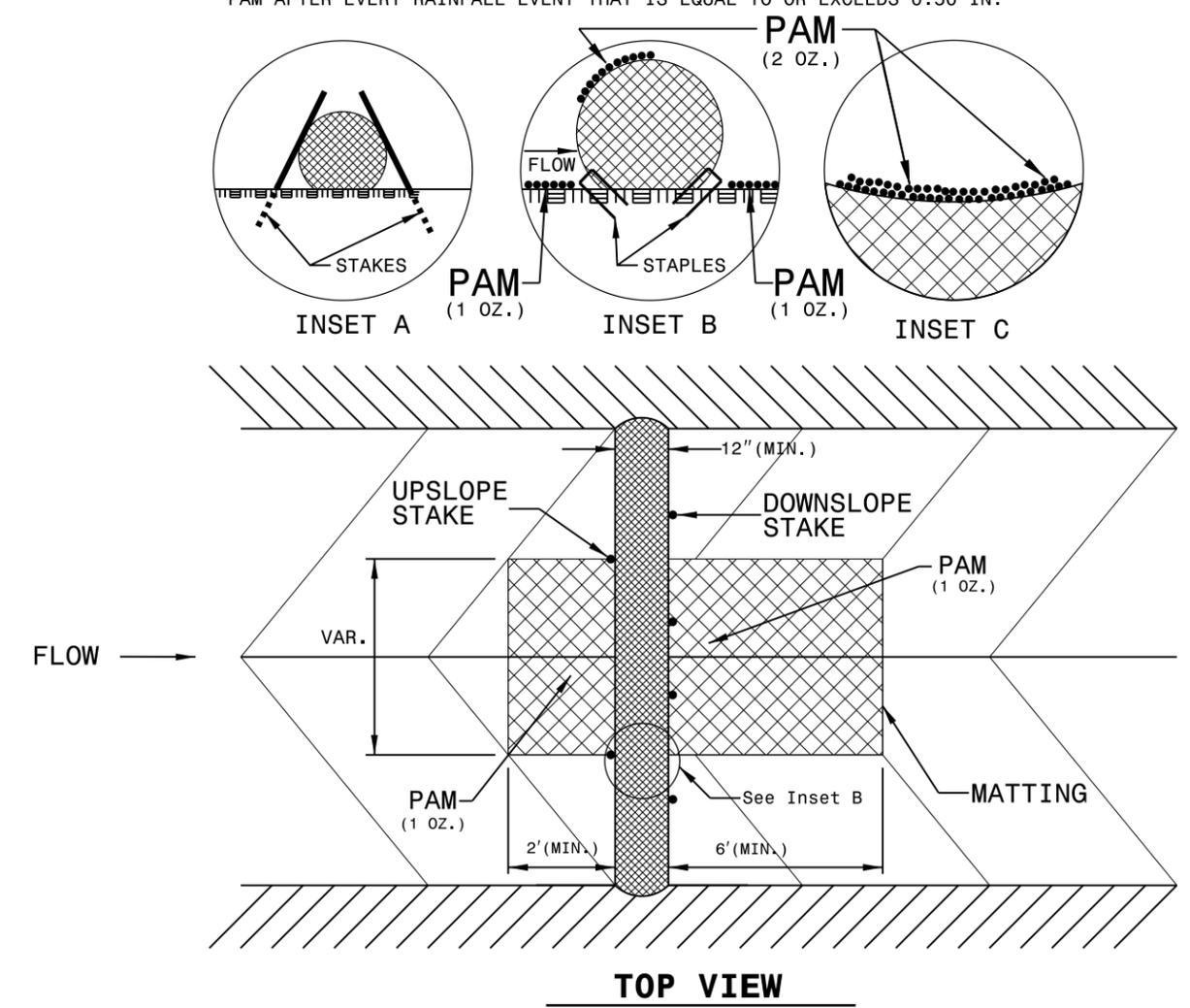
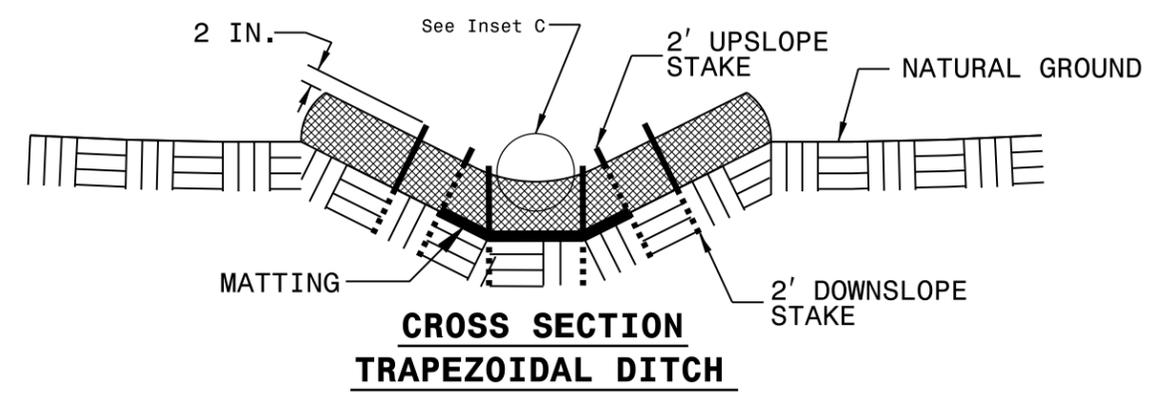
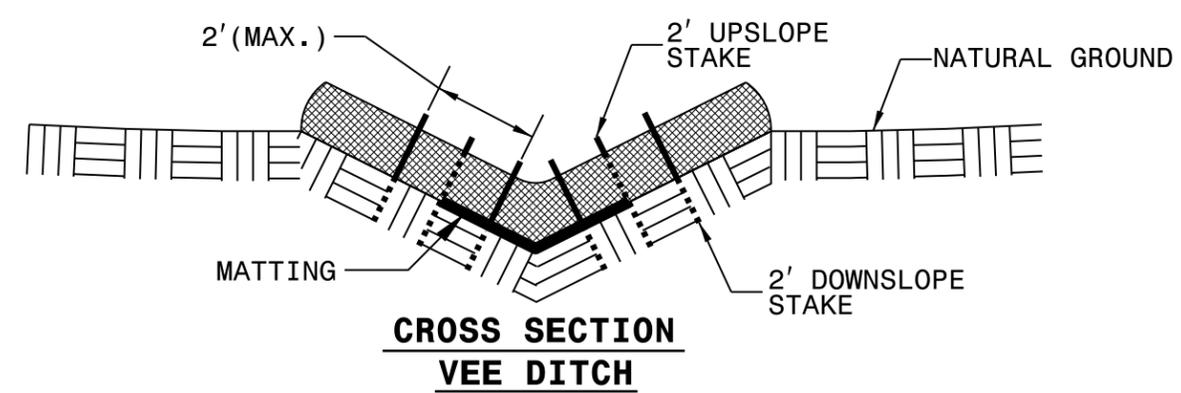
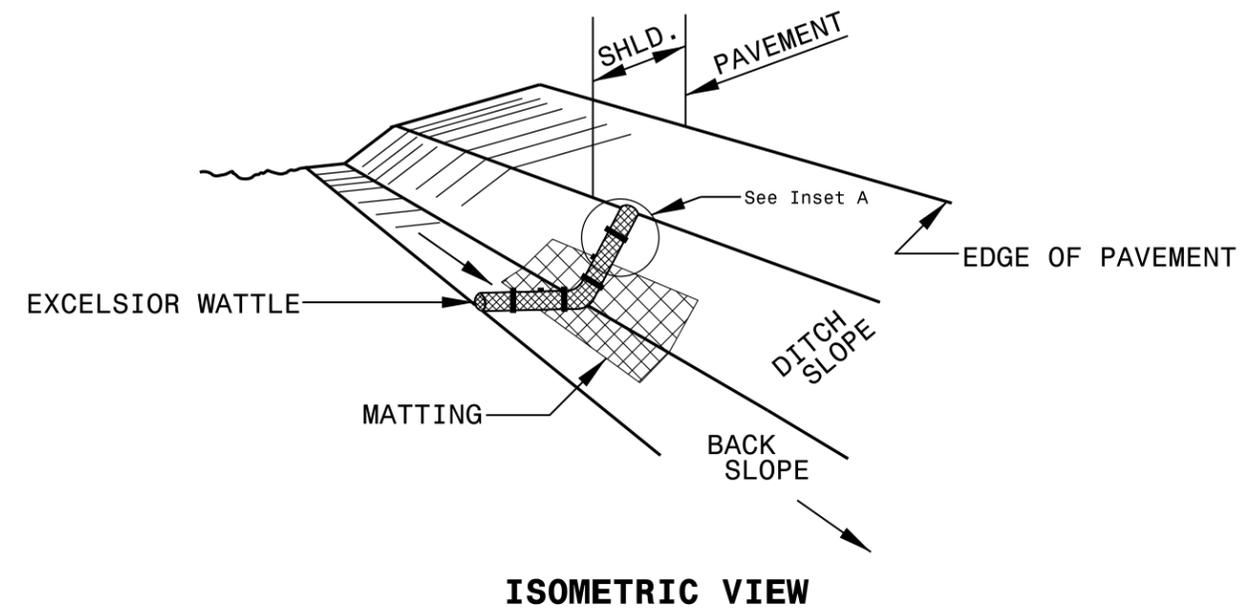
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	TBD
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary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

30-AUG-2020 09:48 s:\EROSION\W-5710AA\Lawyers\_Emerald\_Lake\_Erosion\_TSH.dgn

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

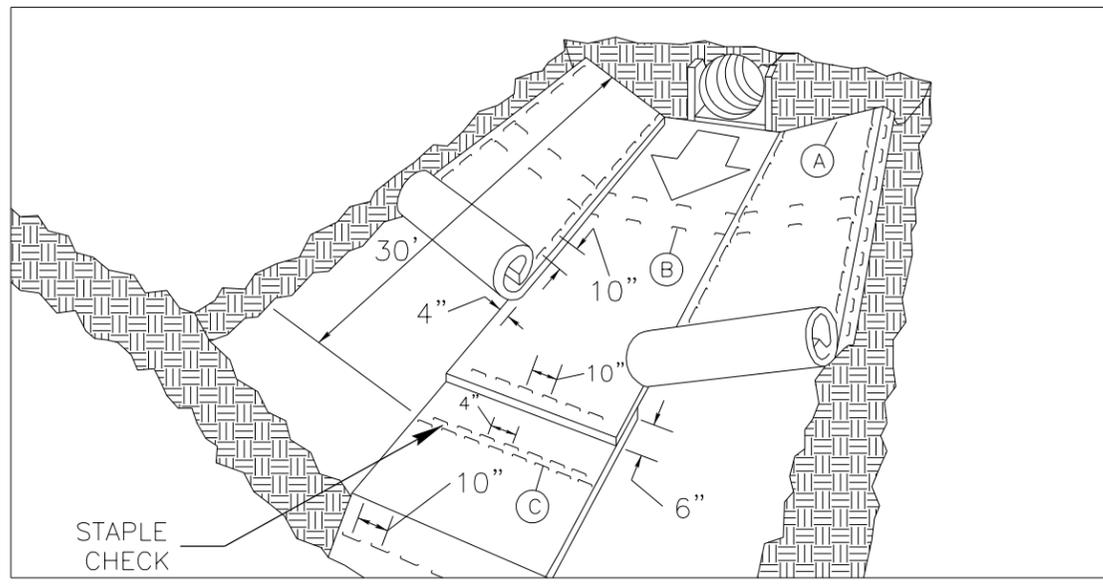
**NOTES:**

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO. 44856.3.27	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

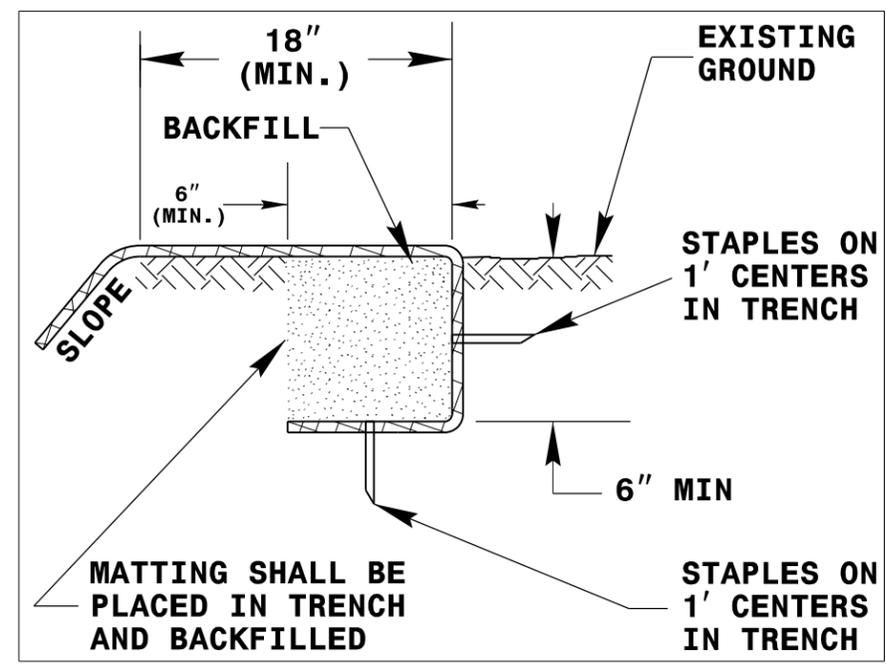
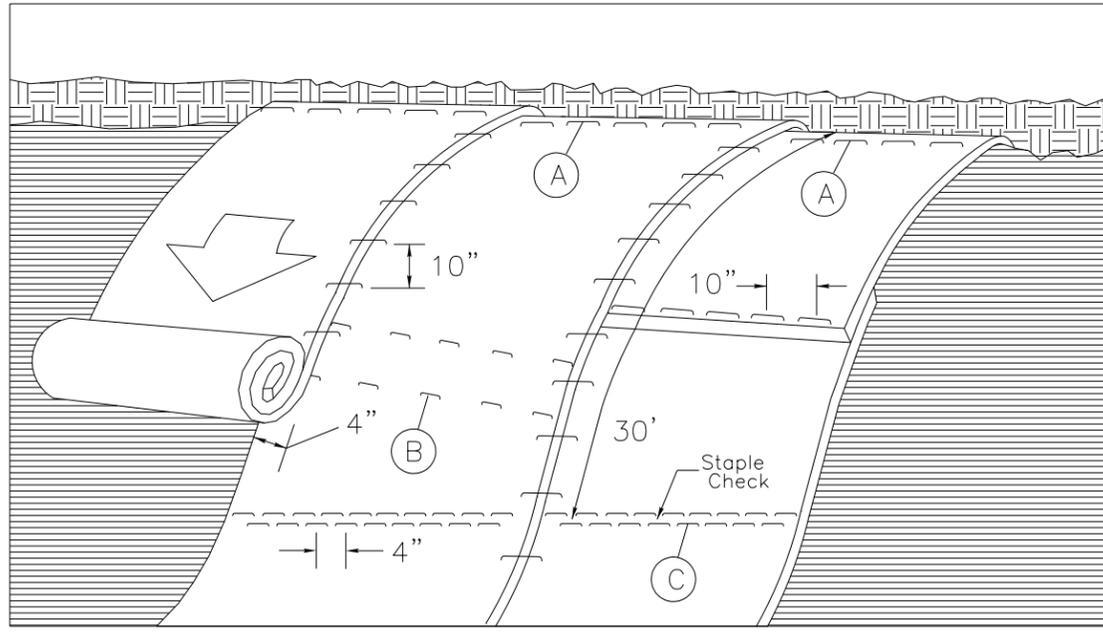


DIAGRAM (A)



**MATTING ON SLOPES**

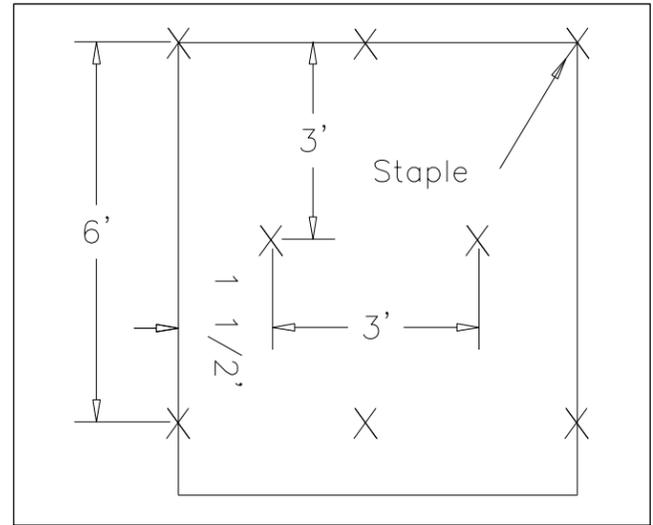


DIAGRAM (B)

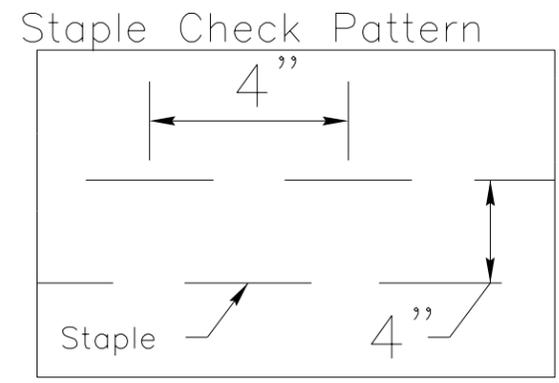


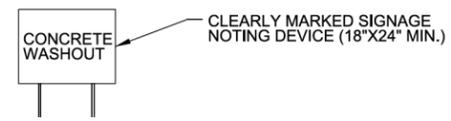
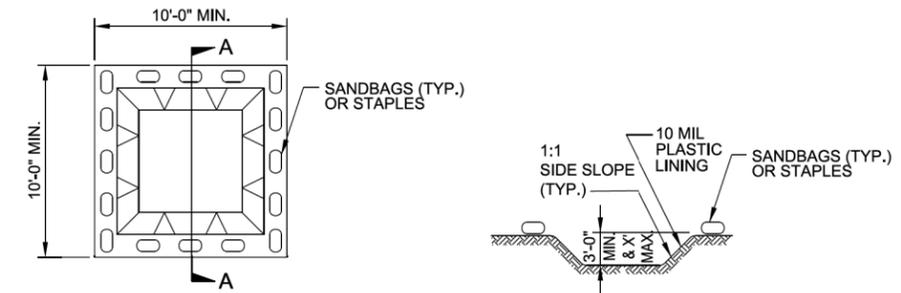
DIAGRAM (C)

**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.  
 STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

### ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



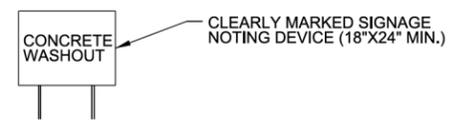
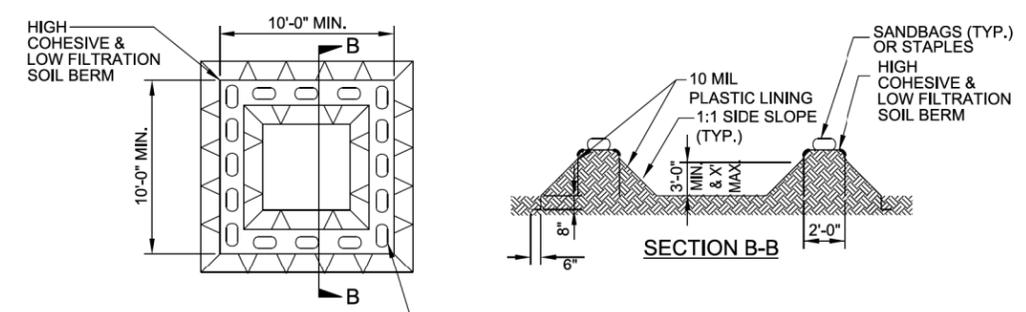
#### SECTION A-A

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

### BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



#### SECTION B-B

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

### ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <b>44856.3.27</b>	SHEET NO. <b>EC-3</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.





**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

PROJECT REFERENCE NO. <b>W-5710AA</b>	SHEET NO. <b>SIGN-01</b>
Approved by:  <small>4A7DB418C886481...</small>	
DATE: 8/3/2020	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

# SIGNING PLAN UNION COUNTY

**LOCATION: SR 1004(LAWYERS ROAD)AND EMERALD LAKE DRIVE IN  
STALLINGS ROUNDABOUT CONSTRUCTION, SIDEWALK EXTENSION**

**T.I.P.: W-5710AA**

### ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.40	SINGLE/TWO LANE ROUNDABOUT WITH PEDESTRIAN

### GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

### SUMMARY OF QUANTITIES

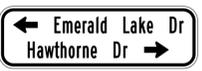
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	400	L.F.
4078000000	903	SUPPORTS, 2 LB STEEL U-CHANNEL	2	EA.
4102000000	904	SIGN ERECTION, TYPE E	38	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	4	EA.

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

K. L. JORDAN \_\_\_\_\_ SIGNING & DELINEATION REGIONAL ENGINEER  
 J. G. MARTINEZ, PE \_\_\_\_\_ SIGNING & DELINEATION PROJECT DESIGN ENGINEER



### TYPE "E" SIGNS

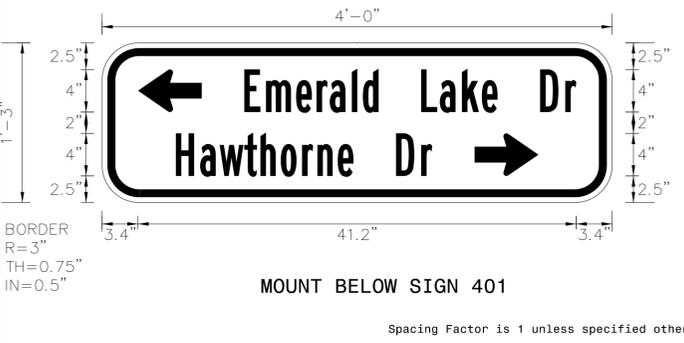
<p style="text-align: center;">401 QUANTITY REQ'D <u>  4  </u></p> <div style="text-align: center;">  <p style="font-size: small;">36 X 36 W2-6</p> </div> <p style="font-size: x-small;">MOUNT ABOVE SIGN 409 IN 1 INSTALLATIONS</p> <p style="font-size: x-small;">MOUNT ABOVE SIGN 410 IN 1 INSTALLATIONS</p> <p style="font-size: x-small;">ONE "U" POST PER SIGN</p>	<p style="text-align: center;">402 QUANTITY REQ'D <u>  2  </u></p> <div style="text-align: center;">  <p style="font-size: small;">30 X 30 W3-2</p> </div> <p style="font-size: x-small;">ONE "U" POST PER SIGN</p>	<p style="text-align: center;">403 QUANTITY REQ'D <u>  8  </u></p> <div style="text-align: center;">  <p style="font-size: small;">36 X 36 X 36 R1-2</p> </div> <p style="font-size: x-small;">ONE "U" POST PER SIGN</p>	<p style="text-align: center;">404 QUANTITY REQ'D <u>  4  </u></p> <div style="text-align: center;">  <p style="font-size: x-small;">12 X 36 R1-6</p> </div> <p style="font-size: x-small;">YELLOW/GREEN REFLECTIVE SHEETING</p> <p style="font-size: x-small;">MOUNT BACK TO BACK IN 2 INSTALLATIONS</p> <p style="font-size: x-small;">ONE "U" POST PER SIGN</p>
<p style="text-align: center;">405 QUANTITY REQ'D <u>  1  </u></p> <div style="text-align: center;">  <p style="font-size: small;">36 X 36 W1-4</p> </div> <p style="font-size: x-small;">ONE "U" POST PER SIGN</p>	<p style="text-align: center;">406 QUANTITY REQ'D <u>  8  </u></p> <div style="text-align: center;">  <p style="font-size: small;">36 X 36 W11-2</p> </div> <p style="font-size: x-small;">YELLOW/GREEN REFLECTIVE SHEETING</p> <p style="font-size: x-small;">ONE "U" POST PER SIGN</p>	<p style="text-align: center;">407 QUANTITY REQ'D <u>  8  </u></p> <div style="text-align: center;">  <p style="font-size: x-small;">24 X 12 W16-7</p> </div> <p style="font-size: x-small;">YELLOW/GREEN REFLECTIVE SHEETING</p> <p style="font-size: x-small;">MOUNT BELOW SIGN 406 IN 8 INSTALLATIONS</p>	<p style="text-align: center;">408 QUANTITY REQ'D <u>  1  </u></p> <div style="text-align: center;">  <p style="font-size: x-small;">24 X 30 R2-1</p> </div> <p style="font-size: x-small;">ONE "U" POST PER SIGN</p>
<p style="text-align: center;">409 QUANTITY REQ'D <u>  1  </u></p> <div style="text-align: center;">  <p style="font-size: x-small;">48 X 15 W16-8a</p> </div> <p style="font-size: x-small;">TWO "U" POSTS PER SIGN</p>	<p style="text-align: center;">410 QUANTITY REQ'D <u>  1  </u></p> <div style="text-align: center;">  <p style="font-size: x-small;">48 X 15 W16-8a</p> </div> <p style="font-size: x-small;">TWO "U" POSTS PER SIGN</p>		

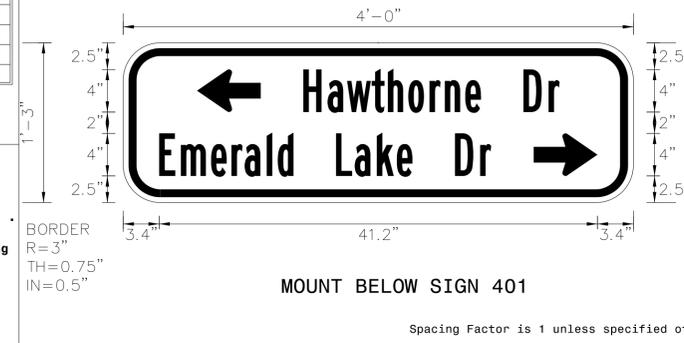
### PROJECT NOTES

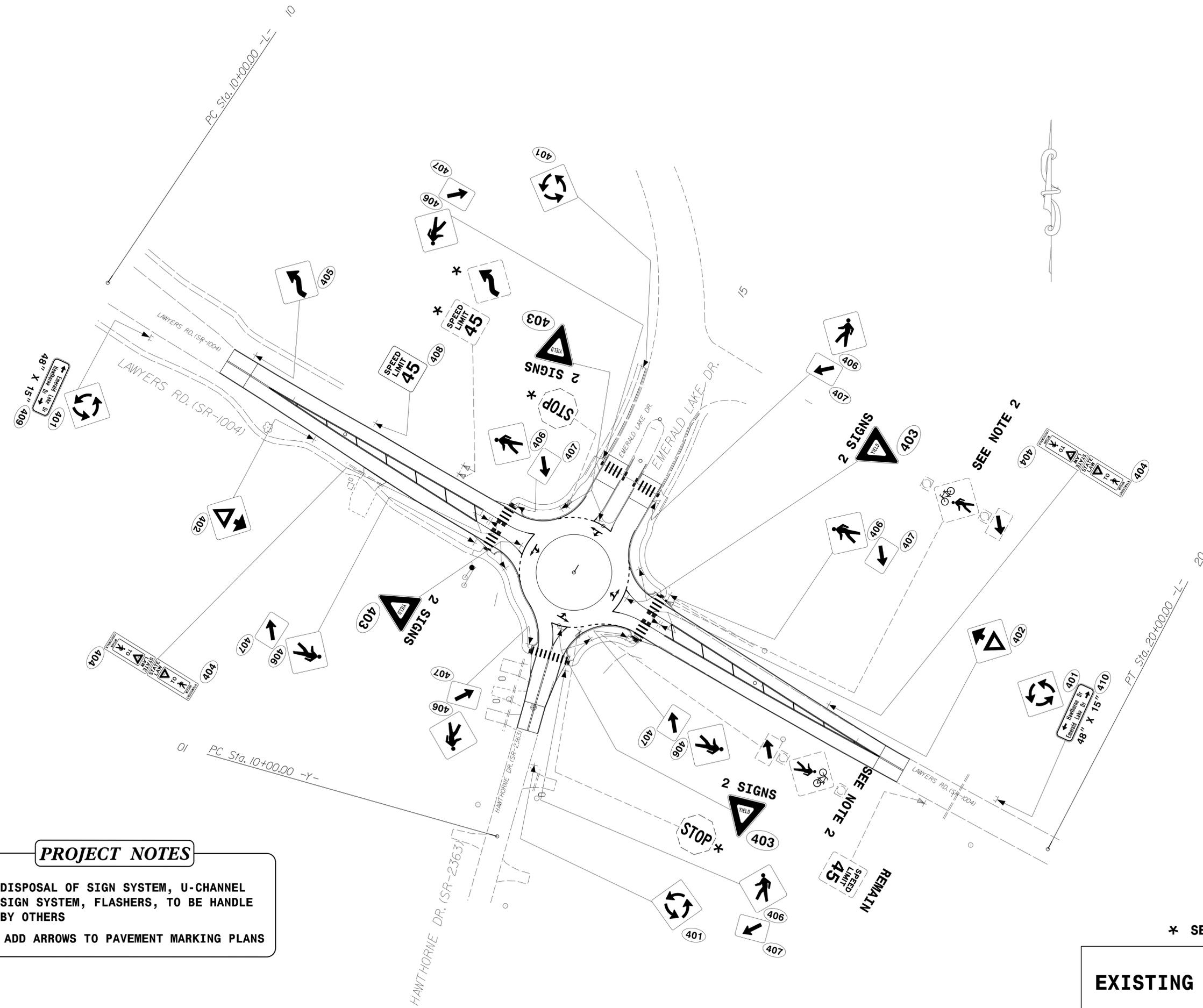
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 SIGN SYSTEM, FLASHERS, TO BE HANDLE BY OTHERS

### INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET E SIGNS
SIGN-2	SIGN DESIGNS
SIGN-3	SIGNING PLAN SHEET

<p><b>SIGN NUMBER:</b> 409 <b>TYPE:</b> E <b>QUANTITY:</b> 1</p> <p><b>SIGN WIDTH:</b> 4'-0" <b>HEIGHT:</b> 1'-3" <b>TOTAL AREA:</b> 5.0 Sq.Ft.</p> <p><b>BORDER TYPE:</b> FLUSH <b>RECESS:</b> 0.5" <b>WIDTH:</b> 0.75" <b>RADII:</b> 3"</p> <p><b>NO. Z BARS:</b> <b>LENGTH:</b></p>	<p><b>BACKG COLOR:</b> Yellow <b>COPY COLOR:</b> Black</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>AR_Type D</td> <td>3.4</td> <td>8.5</td> <td>4</td> <td>6</td> </tr> <tr> <td>AR_Type D</td> <td>35.1</td> <td>2.5</td> <td>4</td> <td>6</td> </tr> </tbody> </table>	SYMBOL	X	Y	WID	HT	AR_Type D	3.4	8.5	4	6	AR_Type D	35.1	2.5	4	6	<p><b>DESIGN BY:</b> jgm <b>PROJECT ID:</b> W-5710AA</p> <p><b>CHECKED BY:</b> <b>LOCATION:</b></p> <p style="text-align: right;"><b>May 01, 2020</b> <b>DIV: 10</b></p>	 <p style="text-align: center;"><b>MOUNT BELOW SIGN 401</b></p> <p style="text-align: center; font-size: small;">Spacing Factor is 1 unless specified otherwise</p>																																																																																					
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<p><b>USE NOTES:</b> 1,2</p> <ol style="list-style-type: none"> <li>Legend and border (except those that are colored black) shall be direct applied Grade C sheeting.</li> <li>Background shall be Grade C reflective sheeting.</li> <li>Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.</li> <li>Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Arrow shall be on 0.032" aluminum, black non-reflective sheeting and demountable. Yellow panel is:</li> </ol>																																																																																																							
<p><b>LETTER POSITIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="15">Letter spacings are to start of next letter</th> <th>Series/Size</th> </tr> <tr> <th colspan="15"></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td>E</td><td>m</td><td>e</td><td>r</td><td>a</td><td>l</td><td>a</td><td>d</td><td>L</td><td>a</td><td>k</td><td>e</td><td>D</td><td>r</td><td></td><td></td><td>B 2000</td> </tr> <tr> <td>13.4</td><td>2</td><td>2.8</td><td>1.9</td><td>1.2</td><td>2.1</td><td>1</td><td>1.5</td><td>4</td><td>1.8</td><td>2.1</td><td>1.9</td><td>1.5</td><td>4</td><td>2.4</td><td>1</td><td>31.2</td> </tr> <tr> <td>H</td><td>a</td><td>w</td><td>t</td><td>h</td><td>o</td><td>r</td><td>n</td><td>e</td><td>D</td><td>r</td><td></td><td></td><td></td><td></td><td></td><td>B 2000</td> </tr> <tr> <td>6.9</td><td>2.3</td><td>1.8</td><td>2.3</td><td>1.5</td><td>1.9</td><td>2</td><td>1.4</td><td>1.9</td><td>1.5</td><td>4</td><td>2.4</td><td>1</td><td>16.9</td><td></td><td></td><td>24.1</td> </tr> </tbody> </table>				Letter spacings are to start of next letter															Series/Size																Text Length	E	m	e	r	a	l	a	d	L	a	k	e	D	r			B 2000	13.4	2	2.8	1.9	1.2	2.1	1	1.5	4	1.8	2.1	1.9	1.5	4	2.4	1	31.2	H	a	w	t	h	o	r	n	e	D	r						B 2000	6.9	2.3	1.8	2.3	1.5	1.9	2	1.4	1.9	1.5	4	2.4	1	16.9			24.1
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<p>FILENAME: W-5710AA_SignDesigns</p> <p style="text-align: right;">NORTH CAROLINA D.O.T. SIGN DETAIL</p>																																																																																																							

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AR_Type D	38.6	2.5	4	6																																																																																																			
<p><b>USE NOTES:</b> 1,2</p> <ol style="list-style-type: none"> <li>Legend and border (except those that are colored black) shall be direct applied Grade C sheeting.</li> <li>Background shall be Grade C reflective sheeting.</li> <li>Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.</li> <li>Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Arrow shall be on 0.032" aluminum, black non-reflective sheeting and demountable. Yellow panel is:</li> </ol>																																																																																																							
<p><b>LETTER POSITIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="15">Letter spacings are to start of next letter</th> <th>Series/Size</th> </tr> <tr> <th colspan="15"></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td>H</td><td>a</td><td>w</td><td>t</td><td>h</td><td>o</td><td>r</td><td>n</td><td>e</td><td>D</td><td>r</td><td></td><td></td><td></td><td></td><td></td><td>B 2000</td> </tr> <tr> <td>16.9</td><td>2.3</td><td>1.8</td><td>2.3</td><td>1.5</td><td>1.9</td><td>2</td><td>1.4</td><td>1.9</td><td>1.5</td><td>4</td><td>2.4</td><td>1</td><td>6.9</td><td></td><td></td><td>24.1</td> </tr> <tr> <td>E</td><td>m</td><td>e</td><td>r</td><td>a</td><td>l</td><td>a</td><td>d</td><td>L</td><td>a</td><td>k</td><td>e</td><td>D</td><td>r</td><td></td><td></td><td>B 2000</td> </tr> <tr> <td>3.4</td><td>2</td><td>2.8</td><td>1.9</td><td>1.2</td><td>2.1</td><td>1</td><td>1.5</td><td>4</td><td>1.8</td><td>2.1</td><td>1.9</td><td>1.5</td><td>4</td><td>2.4</td><td>1</td><td>31.2</td> </tr> </tbody> </table>				Letter spacings are to start of next letter															Series/Size																Text Length	H	a	w	t	h	o	r	n	e	D	r						B 2000	16.9	2.3	1.8	2.3	1.5	1.9	2	1.4	1.9	1.5	4	2.4	1	6.9			24.1	E	m	e	r	a	l	a	d	L	a	k	e	D	r			B 2000	3.4	2	2.8	1.9	1.2	2.1	1	1.5	4	1.8	2.1	1.9	1.5	4	2.4	1	31.2
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<p>FILENAME: W-5710AA_SignDesigns</p> <p style="text-align: right;">NORTH CAROLINA D.O.T. SIGN DETAIL</p>																																																																																																							



- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
  - 2 SIGN SYSTEM, FLASHERS, TO BE HANDLE BY OTHERS
- ↖ ADD ARROWS TO PAVEMENT MARKING PLANS

\* SEE NOTE 1

**EXISTING & PROPOSED SIGNS**

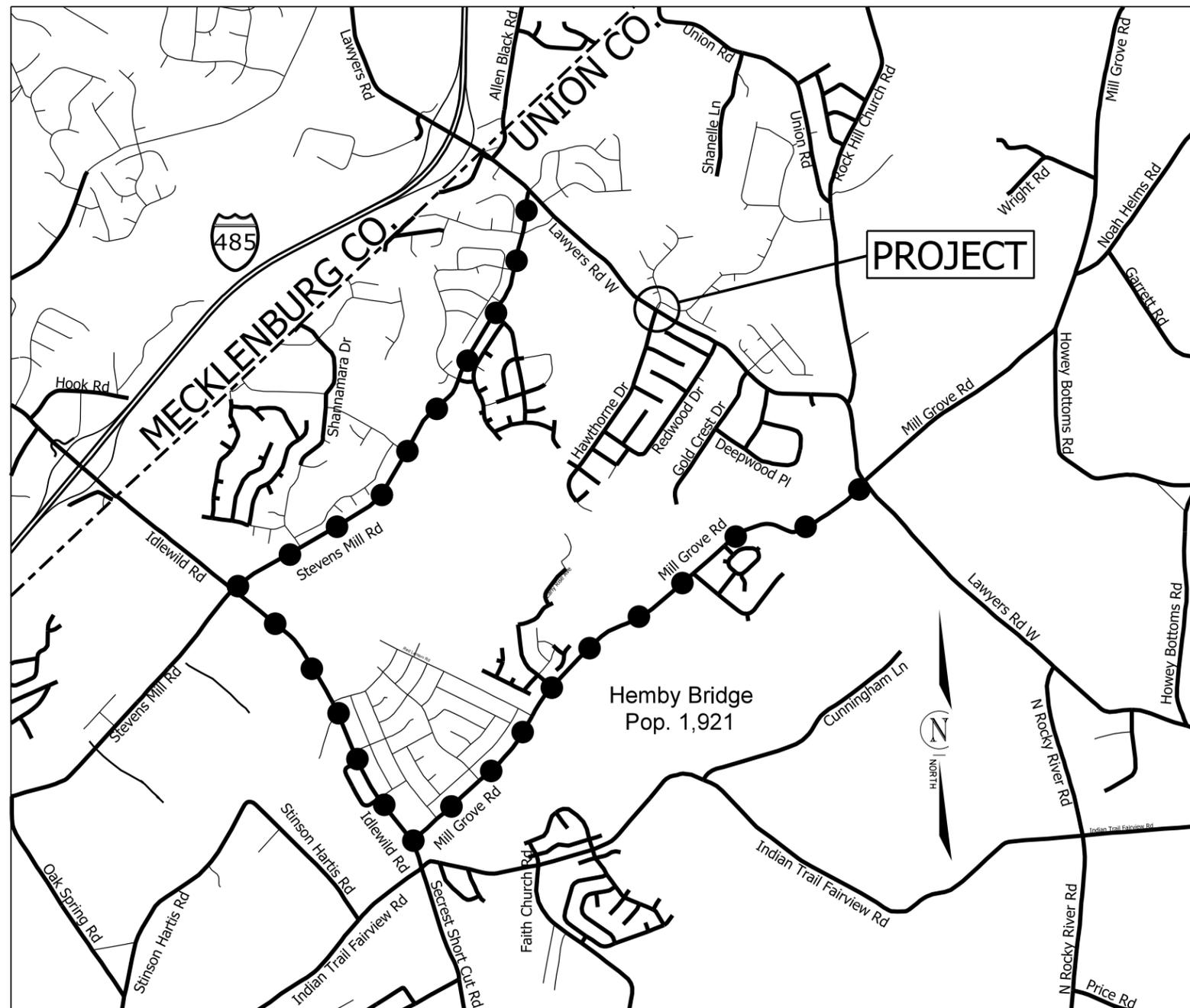
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PROJECT NO.	SHEET NO.
44856.3.27	TCP-1
F.A. PROJECT NO. HSP-100410671	

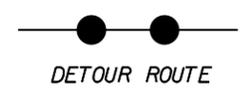


# OFFSITE DETOUR

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

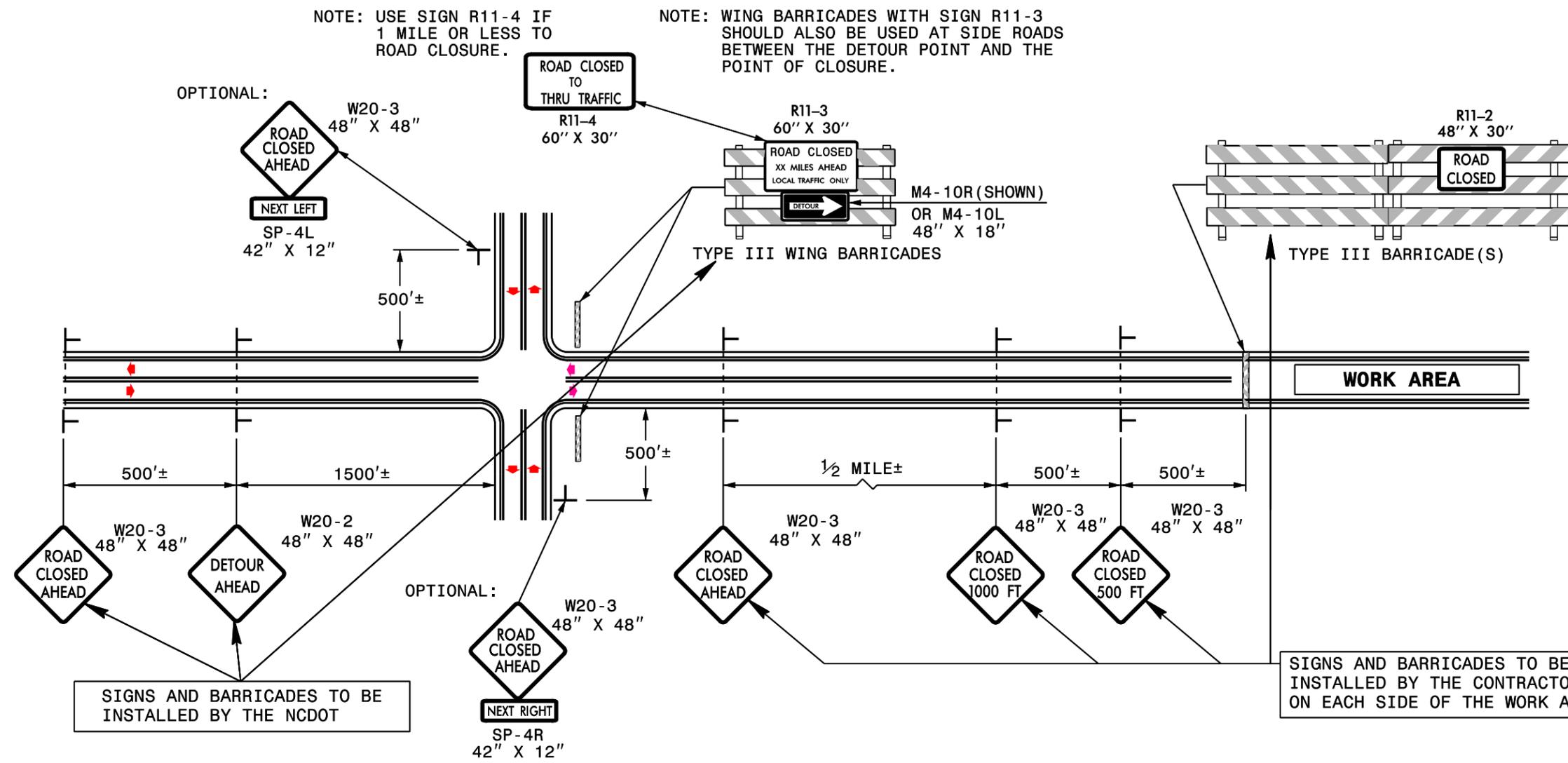


NOTE: CONTRACTOR SHALL CONTACT  
 SALINA BLALOCK AT 704-244-8270  
 TWO WEEKS PRIOR TO ROAD CLOSURE.



SCALE		N/A		REVISIONS
DATE		07-2020		
DWG. BY		CEB		
DESIGN BY		JDH		
APPROVED		JDH		

ROUNDABOUT AT THE INTERSECTION OF  
 LAWYERS RD.(SR-1004),EMERALD LAKE DR.,  
 AND HAWTHORNE DR.(SR-2363)



**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.

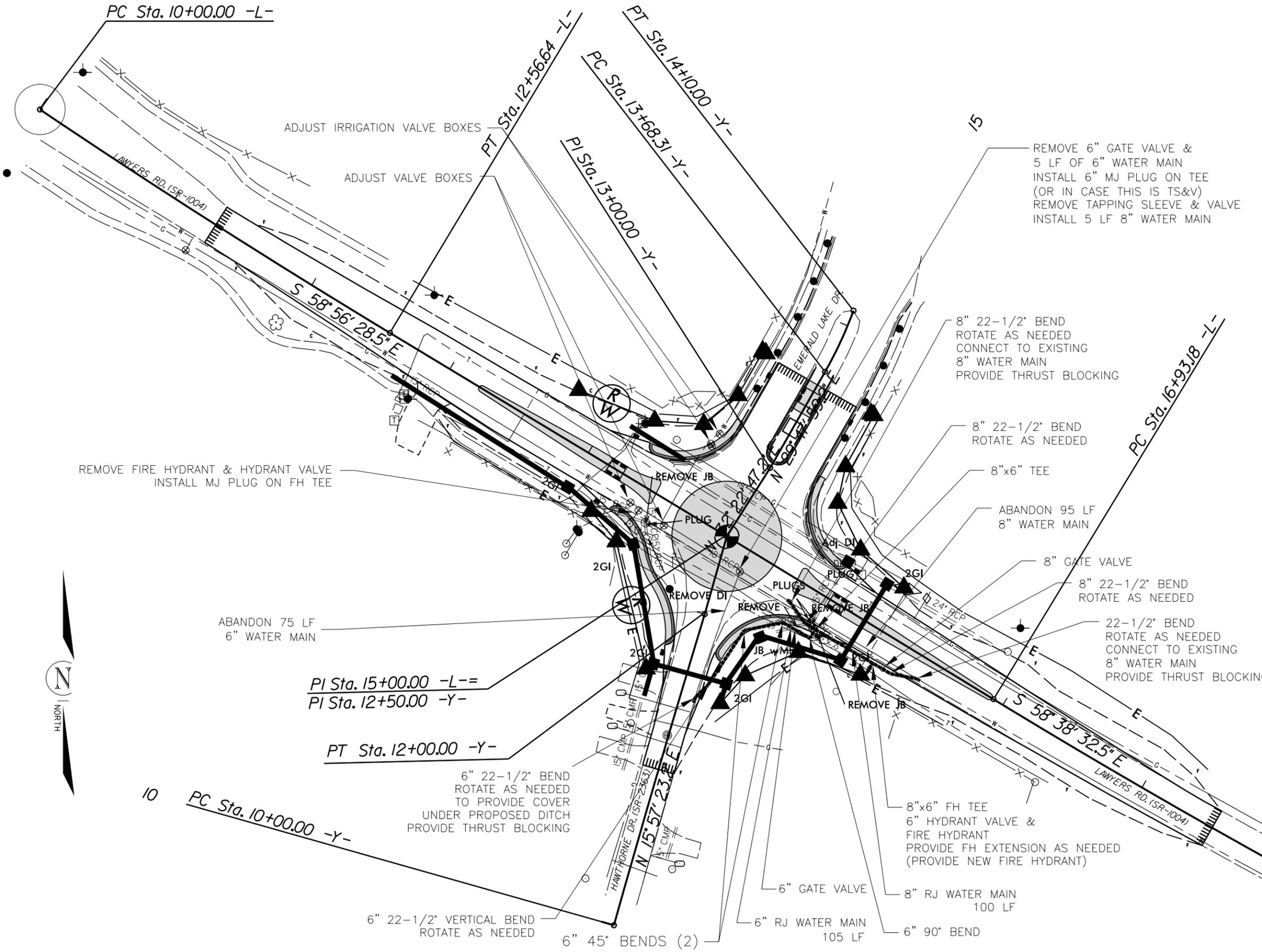
**LEGEND**

┆ STATIONARY SIGN

◄ DIRECTION OF TRAFFIC FLOW

ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD.(SR-1004),EMERALD LAKE DR., AND HAWTHORNE DR.(SR-2363)

SCALE	N/A		REVISIONS
DATE	07-2020		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		



**GENERAL NOTES:**

CONTACT MICHAEL CALDWELL OF UNION COUNTY PUBLIC WORKS 72 HOURS PRIOR TO BEGINNING WORK ON THIS PROPOSED WATER MAIN AT MICHAEL.CALDWELL@UNIONCOUNTYNC.GOV OR 704-968-4150

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

ENTIRE LENGTH OF RELOCATED WATER MAIN MUST BE RESTRAINED JOINT.

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

NO INTERRUPTION OF EXISTING WATER SERVICE SHALL BE MADE DURING CONSTRUCTION UNTIL AUTHORIZED BY UNION COUNTY PUBLIC WORKS DEPARTMENT. UNION COUNTY PUBLIC WORKS DEPARTMENT WILL BE COPIED ON BOTH THE WATER MAIN PRESSURE TEST REPORT AND THE WATER MAIN CHLORINATION TEST REPORT. UNION COUNTY WILL WITNESS PRESSURE TESTS. UNION COUNTY WILL COLLECT SAMPLES AND PERFORM BACTERIOLOGICAL TESTING. EACH SAMPLE COSTS \$50, PAYABLE BY CHECK MADE TO K&W LABORATORIES. UNION COUNTY WILL NOT ACCEPT TEST RESULTS FROM OUTSIDE TESTING LABS.

SHUT DOWN WILL BE LIMITED TO A MAXIMUM OF SIX HOURS. PROVIDE 96 HOURS ADVANCE NOTICE TO UNION COUNTY PRIOR TO SHUT-DOWN OF WATER MAIN.

CONTRACTOR SHALL PROVIDE A PLAN FOR BLOCKING AT ALL TIE-IN LOCATIONS. PLAN MUST BE APPROVED BY UNION COUNTY REPRESENTATIVE PRIOR TO PERFORMING WORK.

ALL SLEEVES MUST BE OF THE RESTRAINED JOINT TYPE.

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

CONTRACTOR SHALL ADHERE TO SECTION 1530 "ABANDON OR REMOVE UTILITIES" FOR ABANDONMENT OF EXISTING WATER AND SEWER LINES.

ROUNDABOUT AT THE INTERSECTION OF LAWYERS RD.(SR-1004),EMERALD LAKE DR. AND HAWTHORNE DR.(SR-2363)

SCALE	r=50'		REVISIONS
DATE	10-2020		
DWG. BY	CEB		
DESIGN BY	CEB		
APPROVED	JDH		



5/28/99

PROJECT REFERENCE NO.

SHEET NO.

44856.3.27

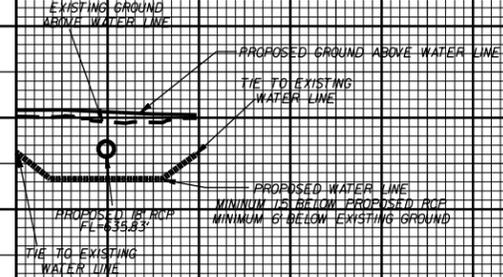
UC-2

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

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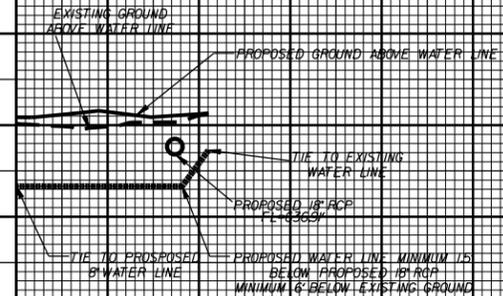


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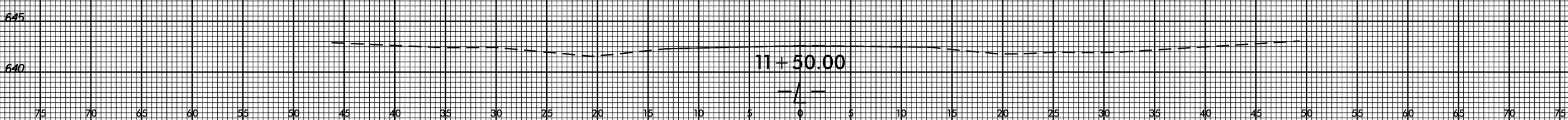
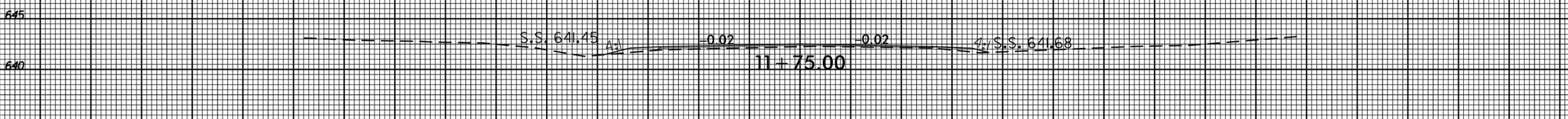
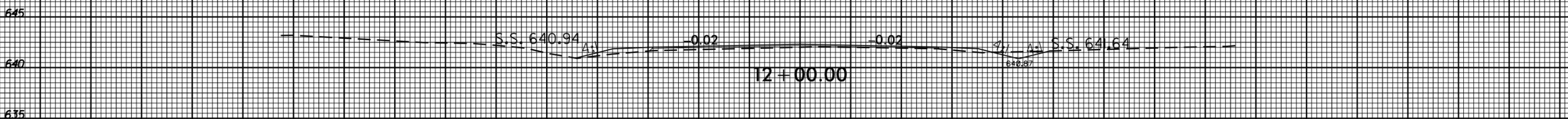
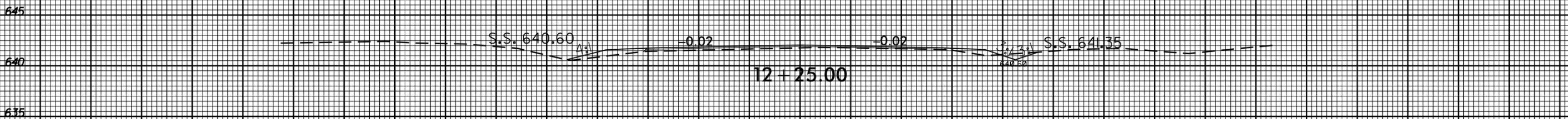
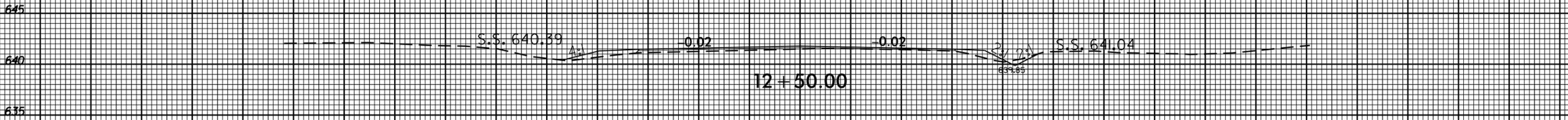


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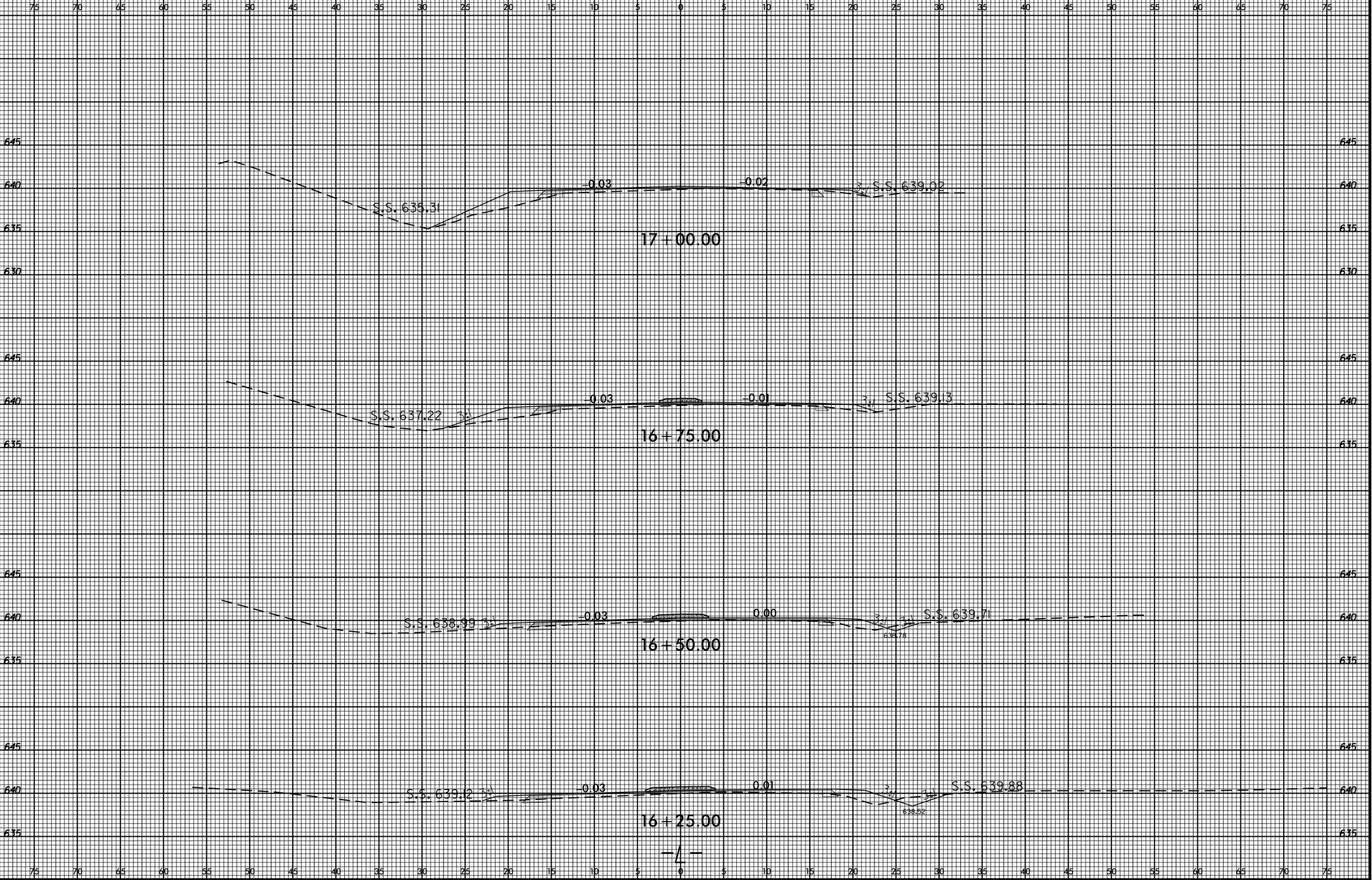
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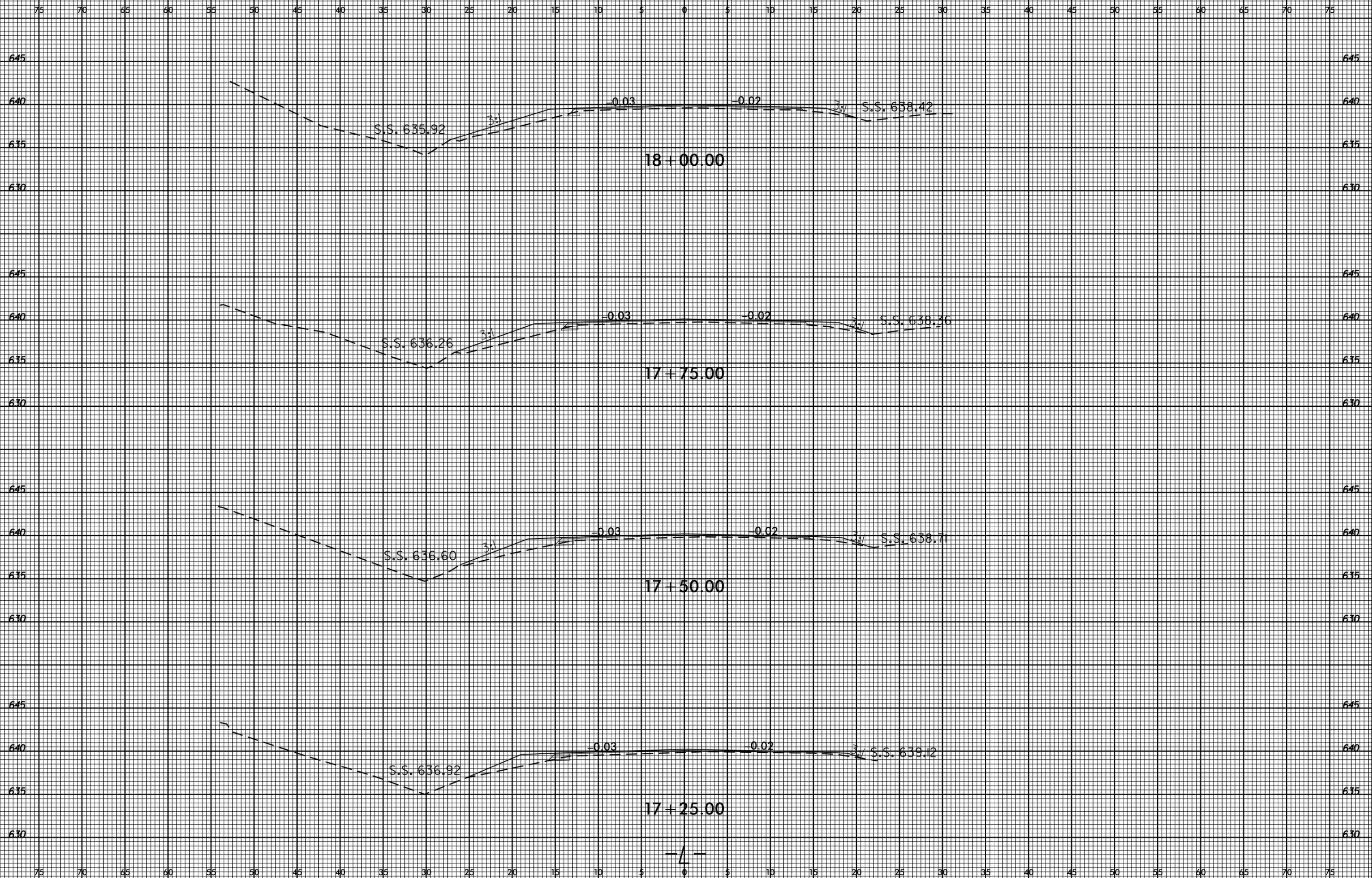


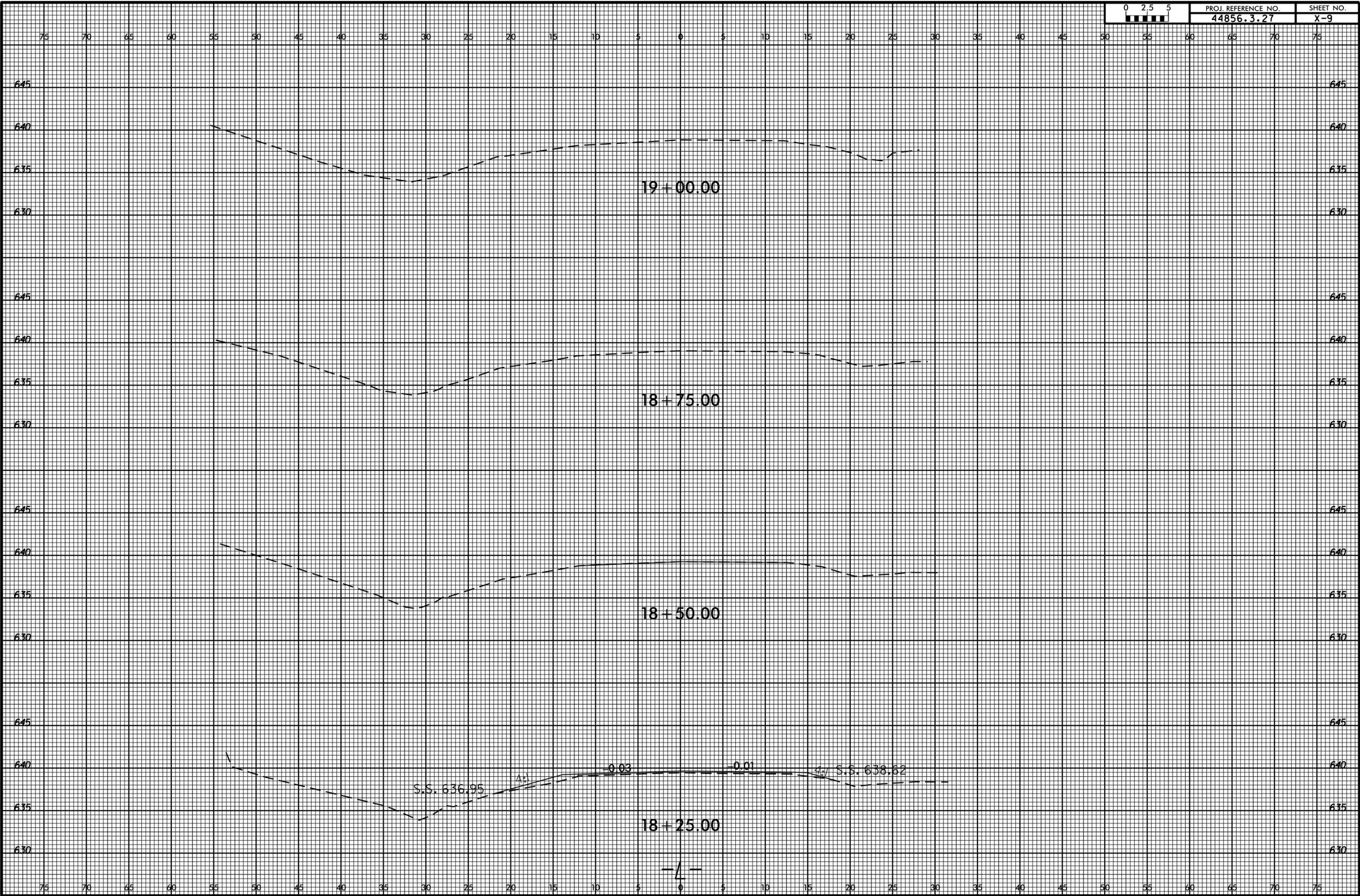




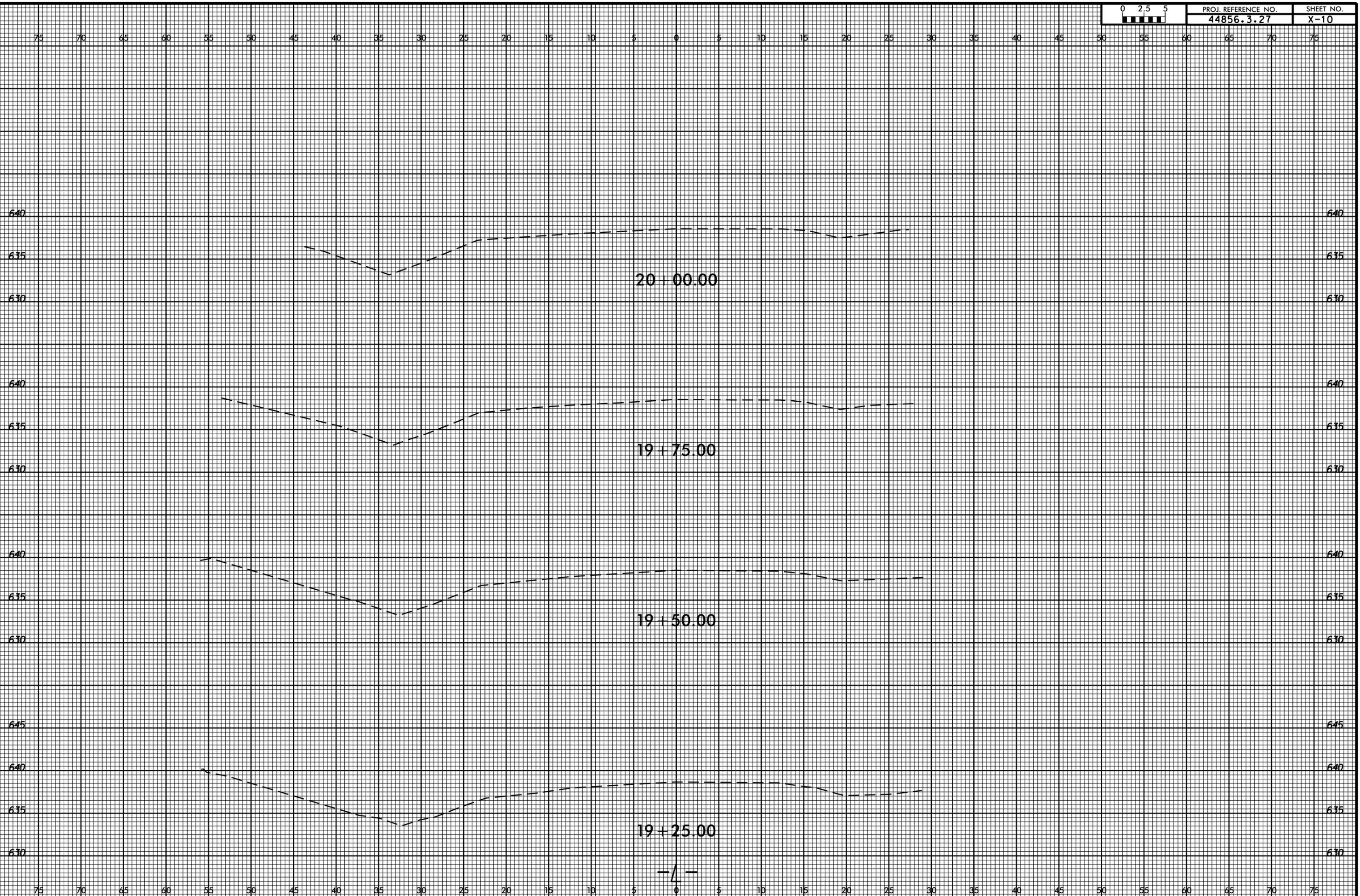






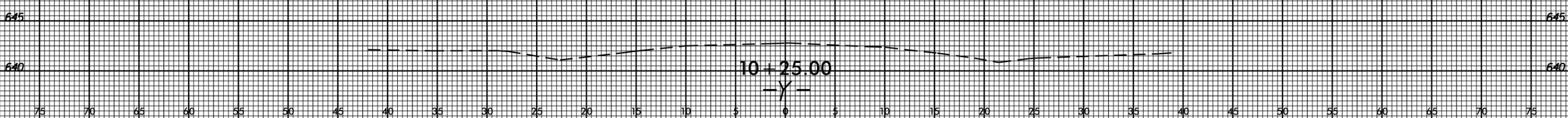
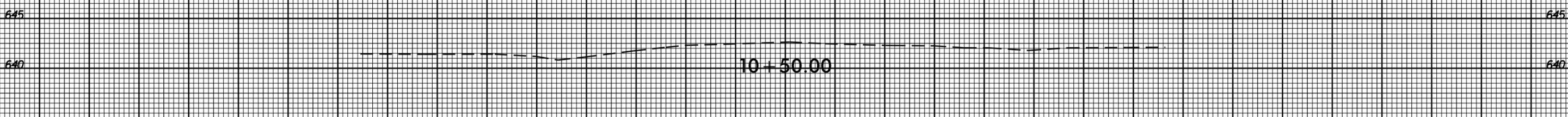
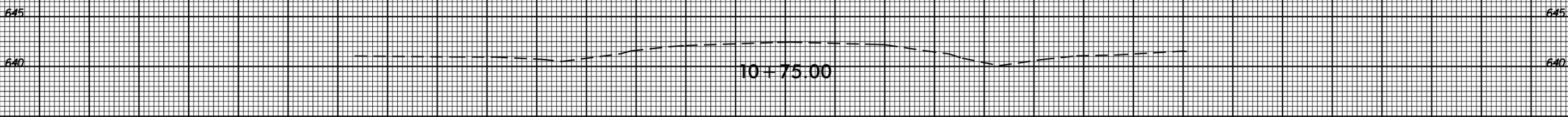
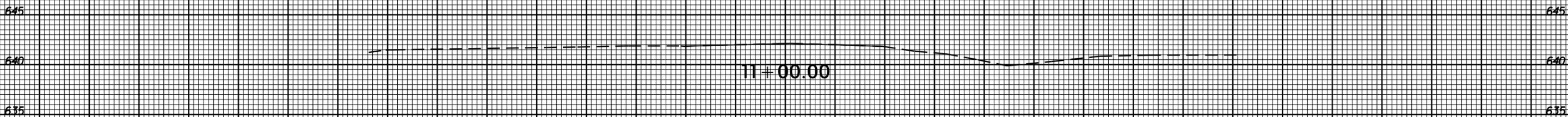
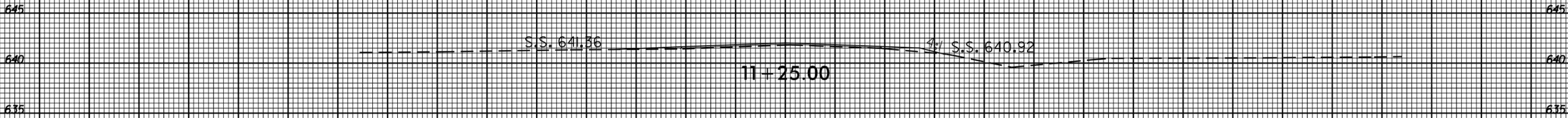


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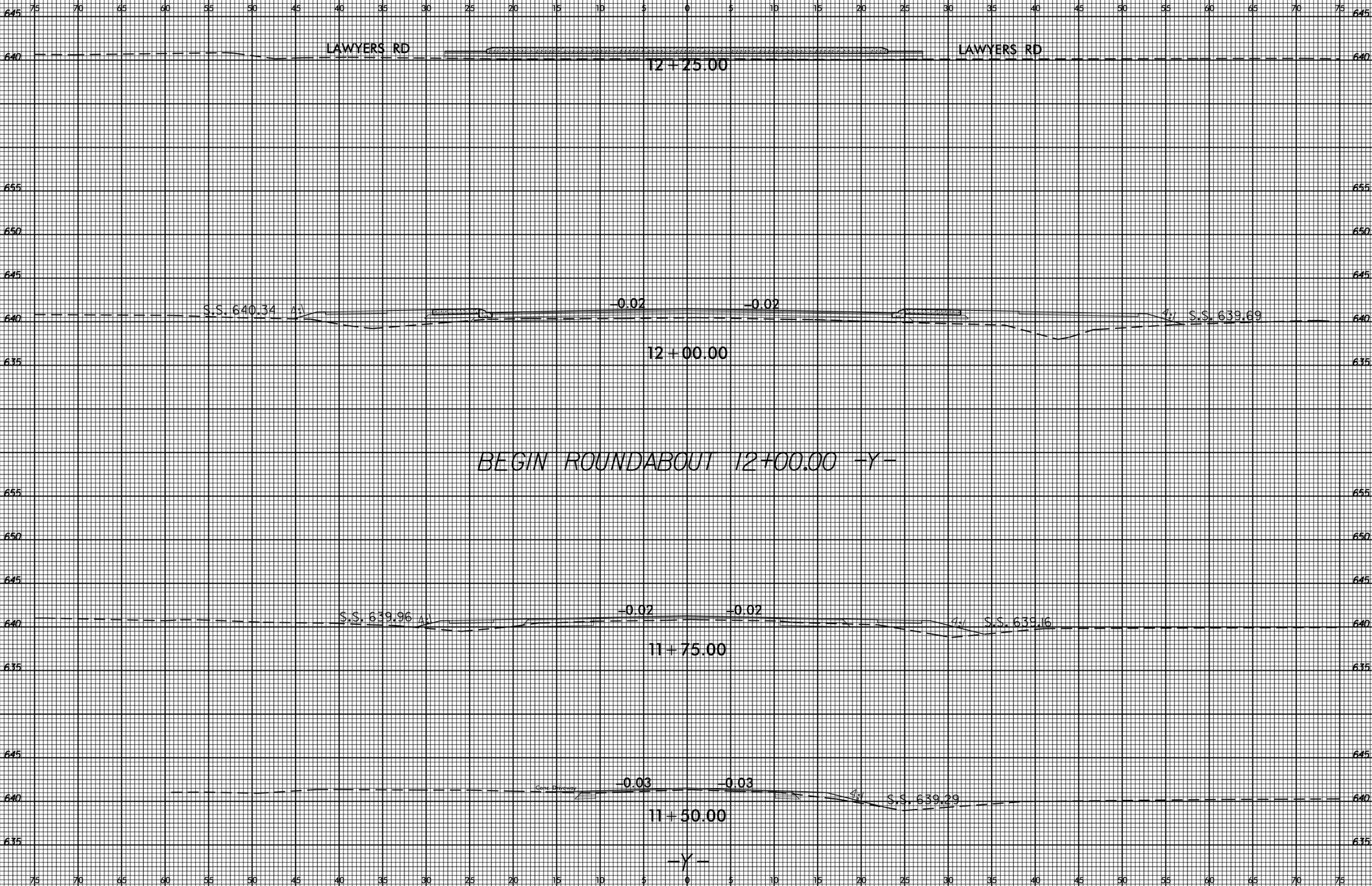




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6/23/16



PROJ. REFERENCE NO.  
44856.1.27

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