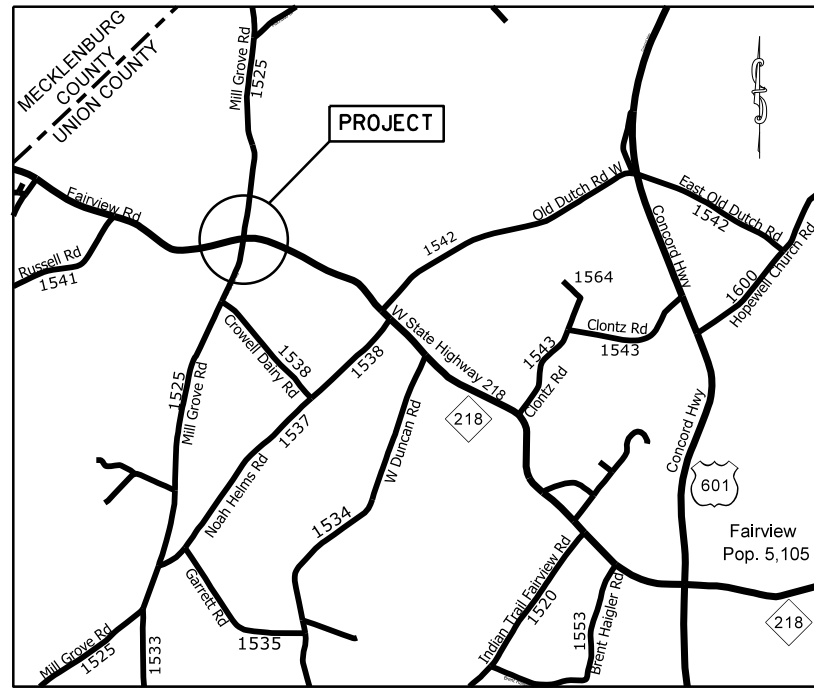


PROJECT: 44856.3.8 TIP: W-5710H

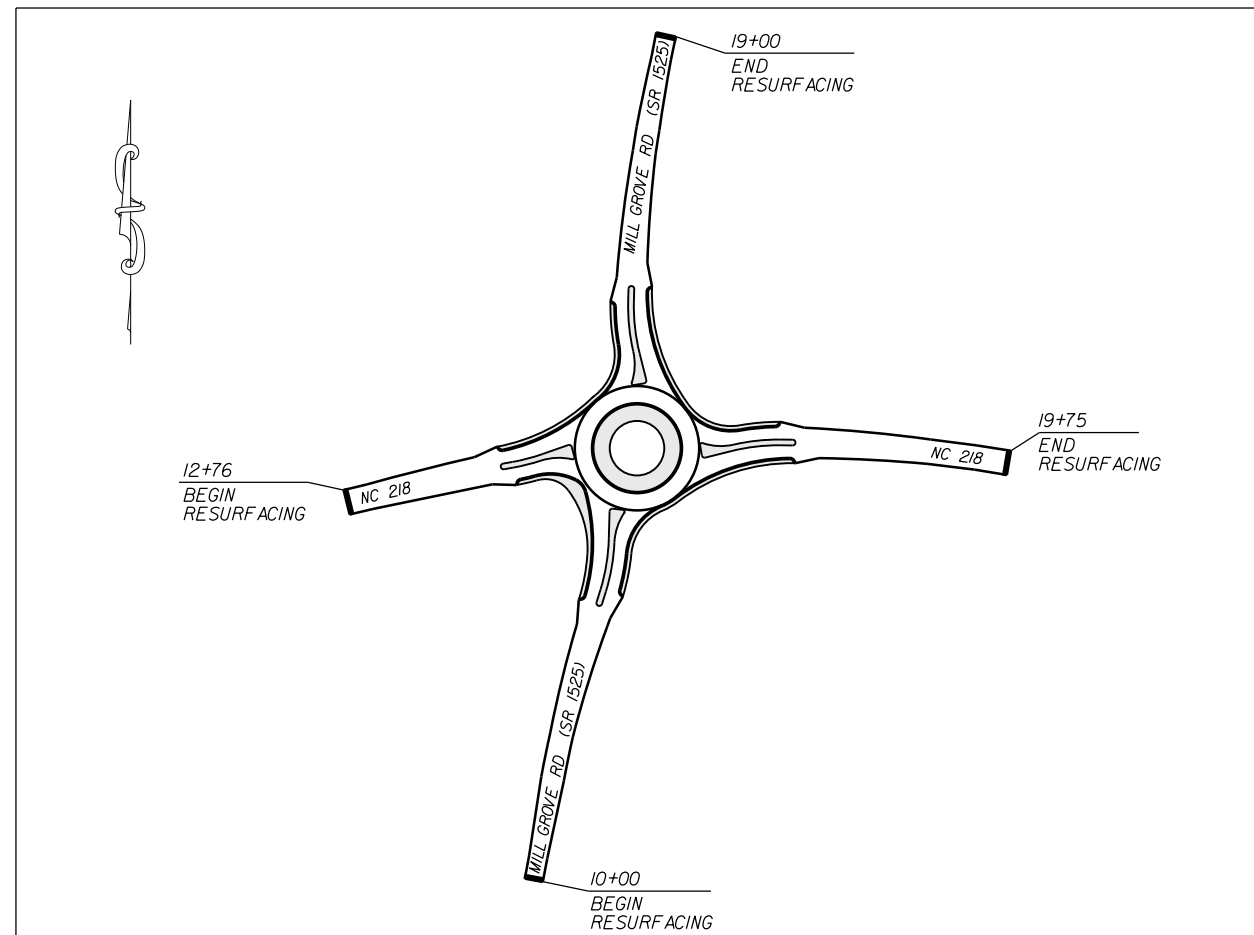


VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
UNION COUNTY

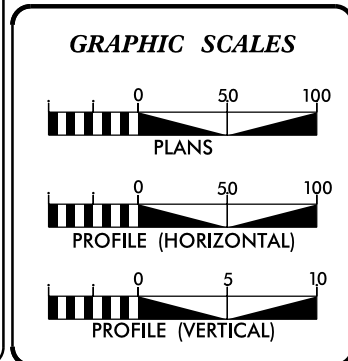
LOCATION: INTERSECTION OF NC 218 AND MILL GROVE RD. (SR-1525)

TYPE OF WORK: GRADING, DRAINAGE, MILLING, PAVING, MONOLITHIC CONCRETE ISLANDS, AND THERMOPLASTIC PAVEMENT MARKINGS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44856.3.8	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.8	HSIP-0218(015)	P.E.	
44856.2.8	HSIP-0218(015)	R/W	
44856.3.8	HSIP-0218(015)	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

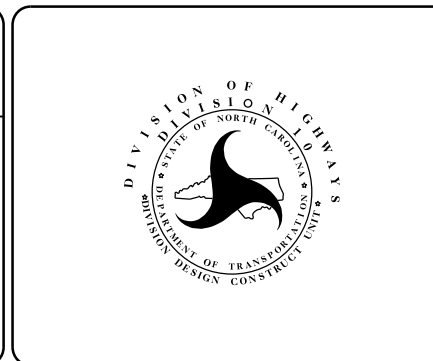
PROJECT LENGTH

LENGTH OF ROADWAY PROJECT	=	0.30	MILES
TOTAL LENGTH OF STATE PROJECT	=	0.30	MILES

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	DONALD HARWARD PROJECT ENGINEER
LETTING DATE:	DONALD HARWARD PROJECT DESIGN ENGINEER



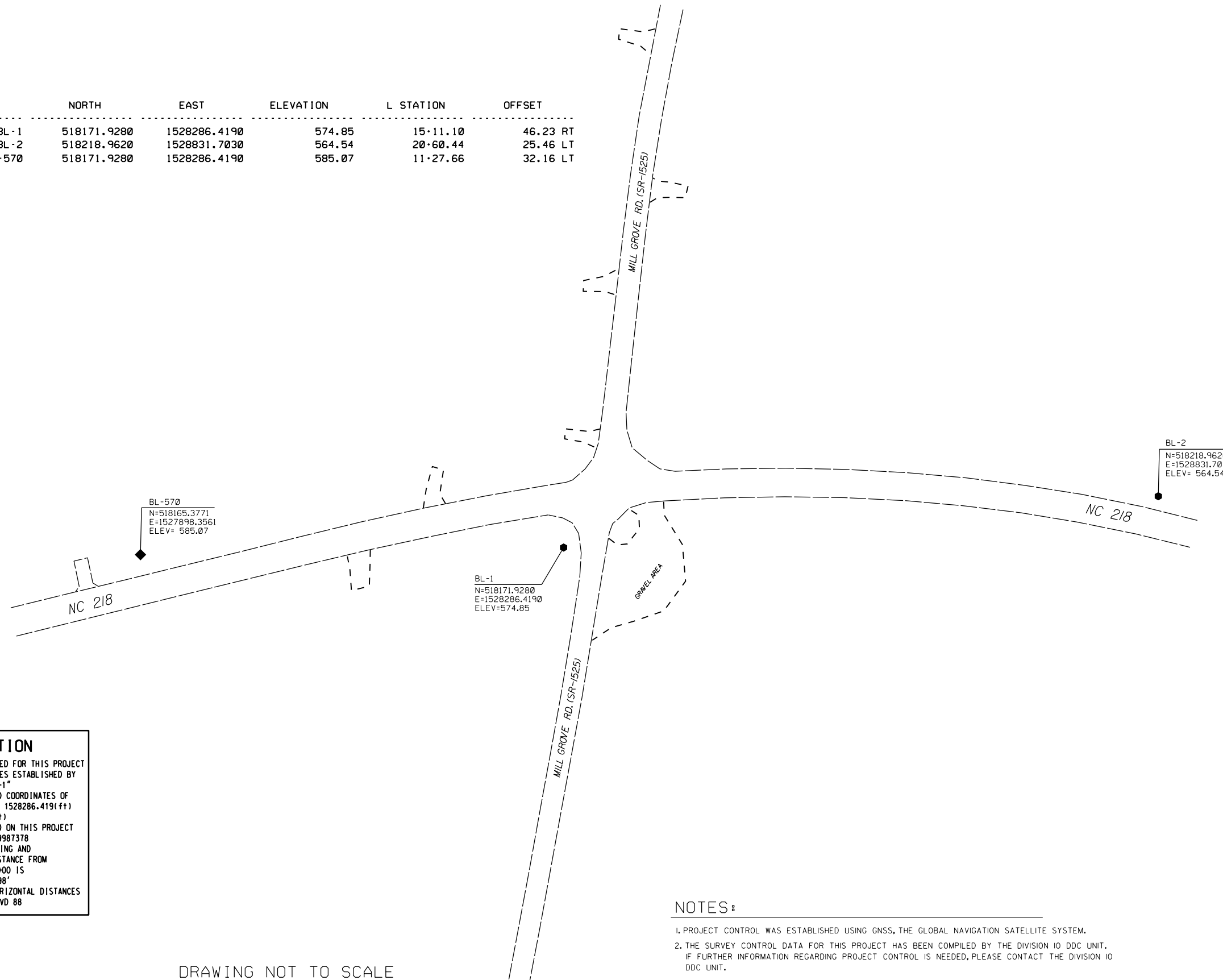
ROADWAY DESIGN ENGINEER

DocuSigned by:
Michael Epperson
A02E75CC0EEB43B
SIGNATURE

SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
44856.3.8	1A
F.A. PROJECT NO. HSIP-0218(015)	

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	BL-1		518171.9280	1528286.4190	574.85	15+11.10	46.23 RT
2	BL-2		518218.9620	1528831.7030	564.54	20+60.44	25.46 LT
570	BL-570		518171.9280	1528286.4190	585.07	11+27.66	32.16 LT



DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL-1"
 WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 518171.928(±) EASTING: 1528286.419(±)
 ELEVATION: 547.849(±)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 00.99987378
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-1" TO -L- STATION 10+00 IS
 S 80° 17' 57" W 508.98'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

DRAWING NOT TO SCALE

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 10 DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION 10 DDC UNIT.

ROUNDABOUT AT THE INTERSECTION
 OF NC 218 AND MILL GROVE RD.(SR-1525)

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

RIGHT OF WAY, EASEMENT AND PROPOSED ALIGNMENT SHEET

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	518103.7252	1527782.0342
PC	13+55.53	518188.4377	1528127.3208
PCC	19+88.10	518208.8478	1528755.0056
PT	20+99.96	518184.4861	1528864.1491

Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	517774.6505	1528245.6394
PC	11+08.15	517881.0021	1528265.2874
PRC	12+78.40	518045.6680	1528307.9697
PRC	14+64.68	518226.1168	1528353.4589
PCC	17+59.34	518519.9823	1528358.8114
PT	19+09.06	518667.2578	1528385.5570

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 5th day of Feb 2019

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



ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	16+91.00	51.24	518180.6846	1528460.2974

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y	11+08.15	30.00	517875.5520	1528294.7882
Y	13+50.00	30.00	518106.3146	1528357.7181
Y	15+48.94	45.00	518311.7009	1528392.5863
Y	16+30.00	30.00	518390.2021	1528377.5501
Y	19+00.00	30.00	518652.0496	1528412.9340
Y	19+00.00	26.35	518652.8242	1528409.3635

PERMANENT DRAINAGE EASEMENT

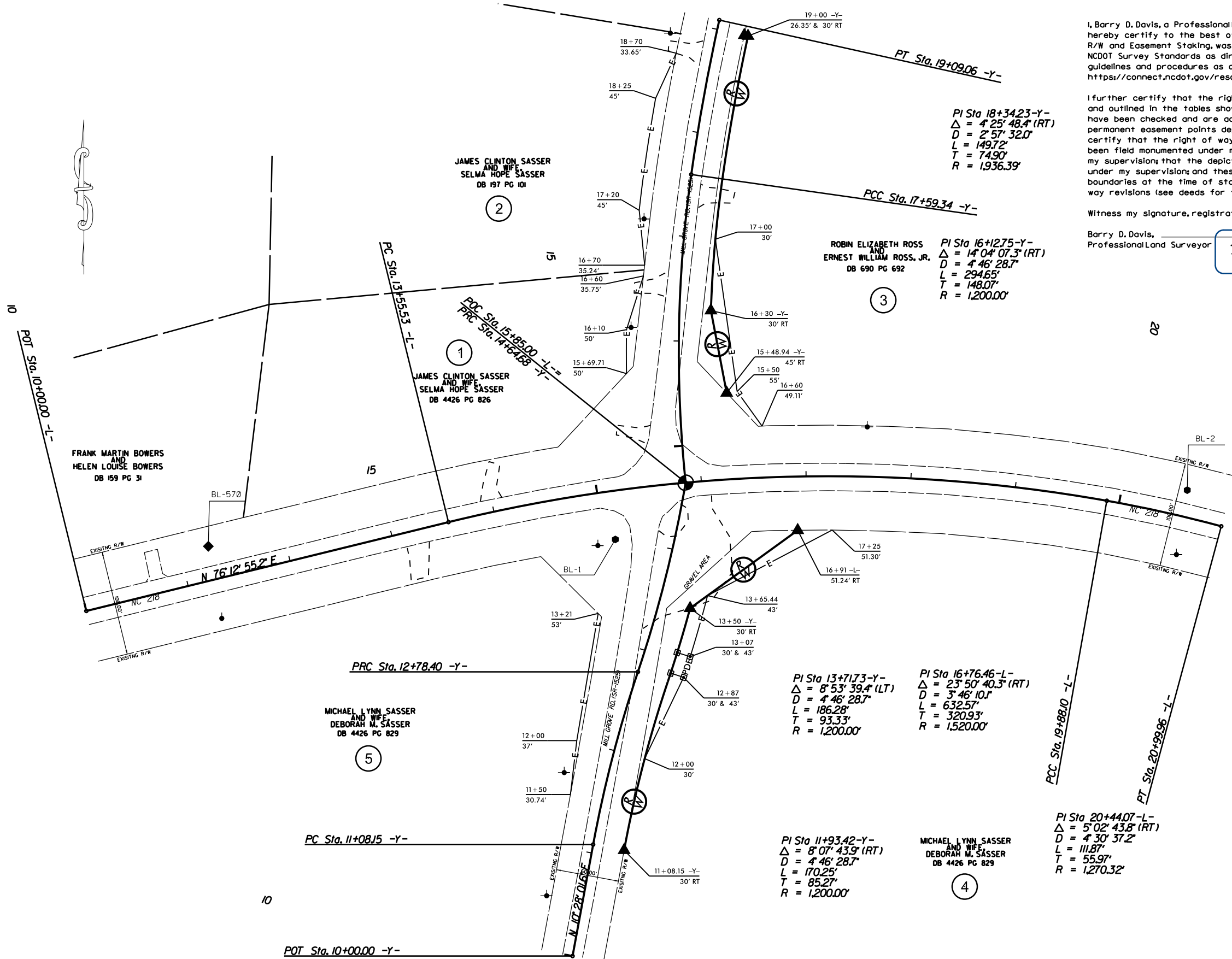
ALIGN	STATION	OFFSET	NORTH	EAST
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Y	12+87.00	43.00	518040.4070	1528351.5346
Y	13+07.00	30.00	518063.9927	1528345.4193
Y	13+07.00	43.00	518060.1419	1528357.8358

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 10 DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION 10 DDC UNIT.

ROUNDABOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD. (SR-1525)

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

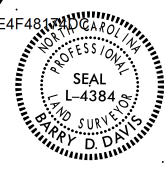


I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys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

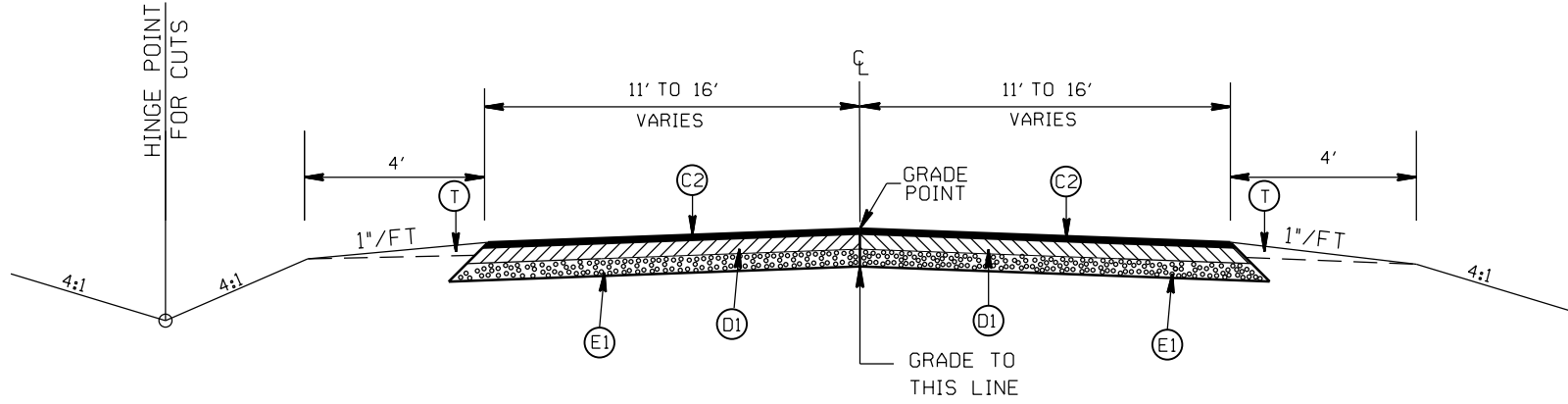
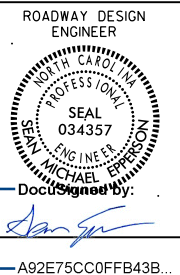
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway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

Witness my signature, registration number and seal this 5th day of Feb 2019

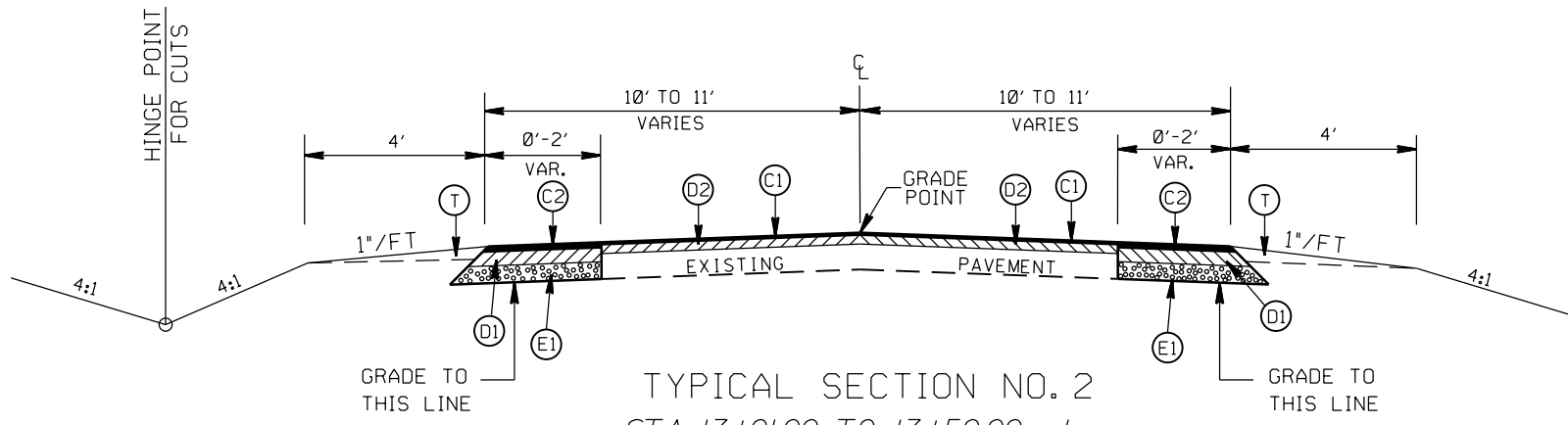
Barry D. Davis, Professional Land Surveyor
 DocuSigned by: Barry D. Davis
 PLS# L-4384
 0E2AAE4F4814



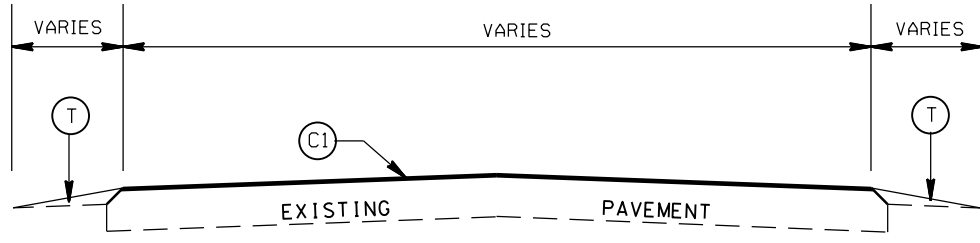
ROUNDABOUT AT THE INTERSECTION OF NC 218 AND MILL GROVE RD. (SR-1525)	
SCALE	1"=50'
DATE	1-2019
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH
REVISIONS	



TYPICAL SECTION NO. 3
STA. 13+50.00 TO 14+41.00 -L-



TYPICAL SECTION NO. 2
STA. 13+01.00 TO 13+50.00 -L-



TYPICAL SECTION NO. 1
STA 12+76.00 TO 13+01.00 -L-
STA 19+50.00 TO 19+75.00 -L-
STA 10+00.00 TO 10+25.00 -Y-
STA 18+75.00 TO 19+00.00 -Y-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, 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.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL

ROUNDABOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD. (SR-1525)

SCALE	r=50'
DATE	1-2019
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH



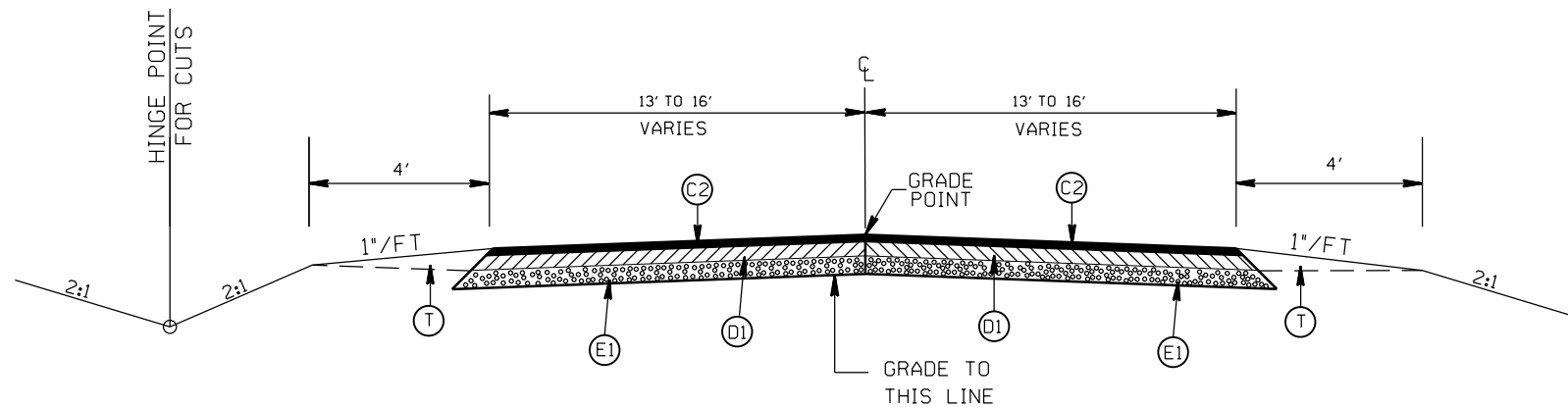
REVISIONS	

ROADWAY DESIGN
ENGINEER

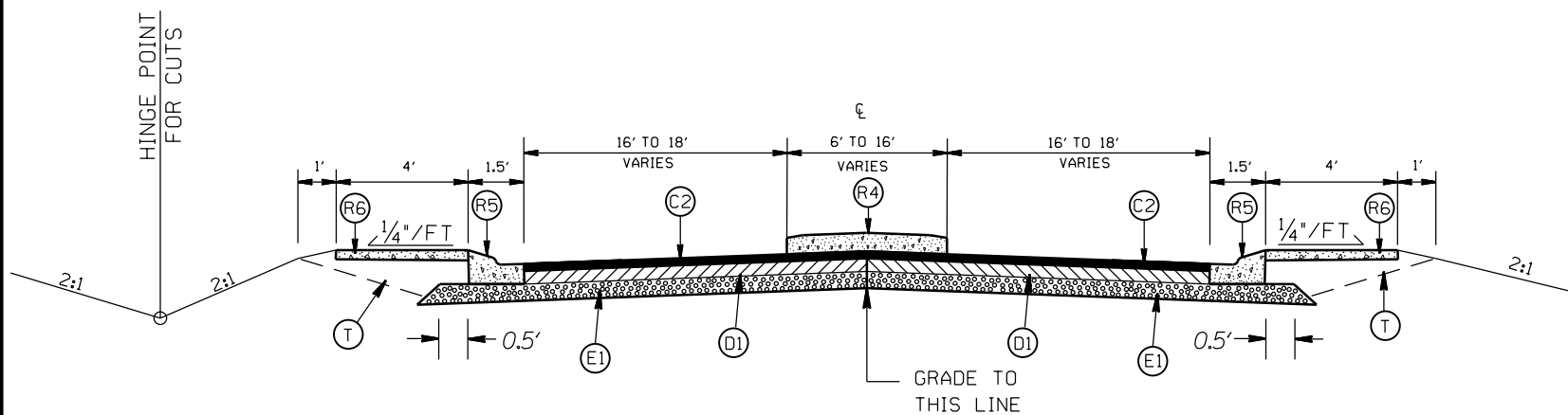


DocuSign by: *Michael J. Johnson*

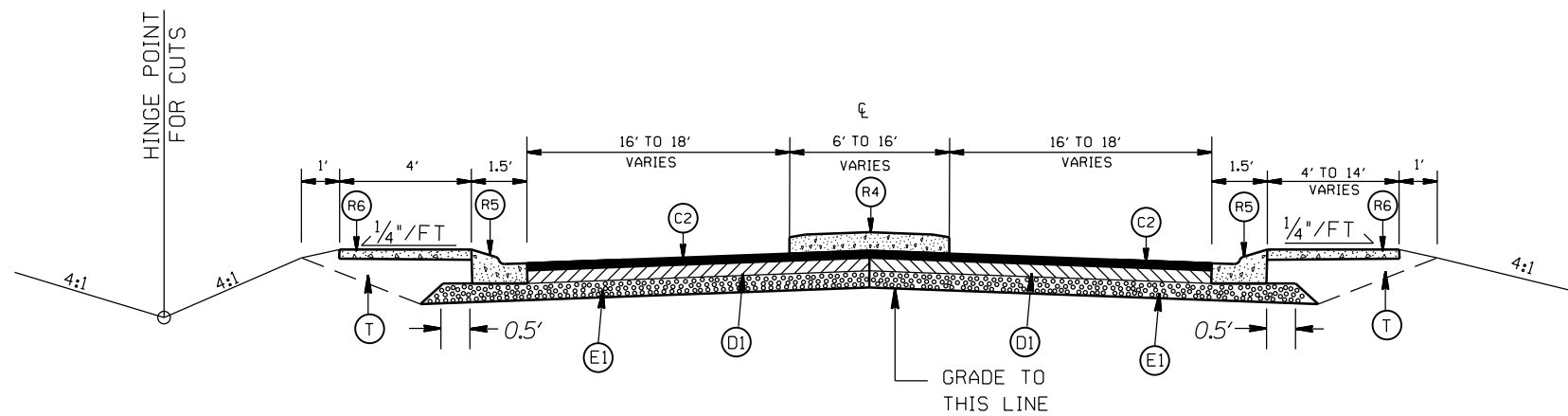
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TYPICAL SECTION NO. 6
STA. 17+51.00 TO 18+50.00 -L-



TYPICAL SECTION NO. 5
STA. 16+50.00 TO 17+51.00 -L-



TYPICAL SECTION NO. 4
STA. 14+41.00 TO 15+20.00 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, 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.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL

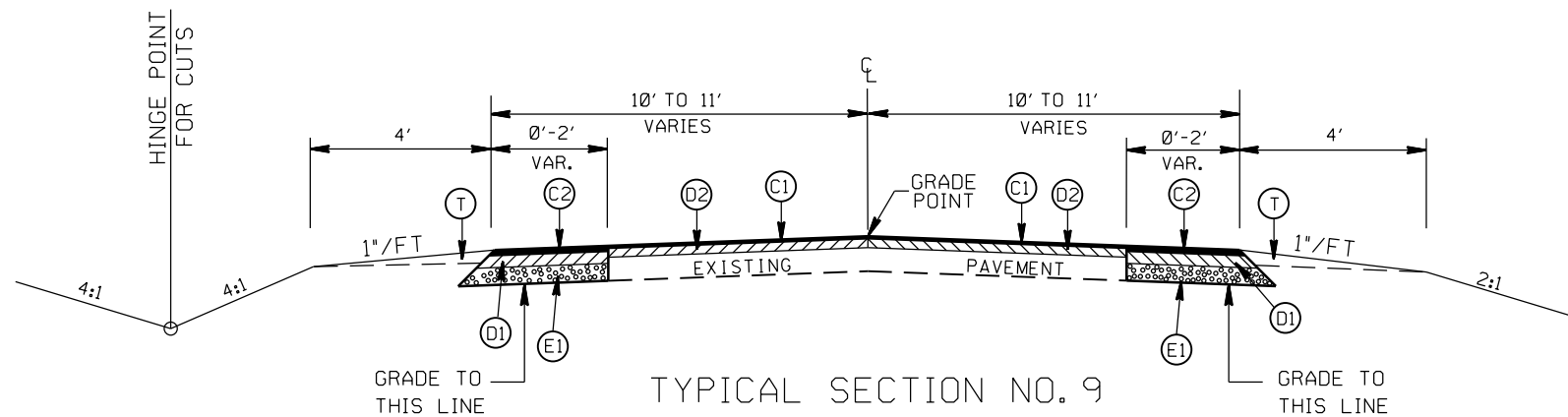
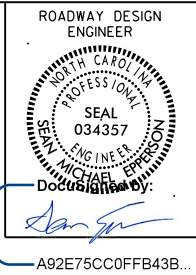
ROUNDABOUT 15+20.00 TO 16+50.00 -L-
13+99.69 TO 15+29.69 -Y-

ROUNDABOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD. (SR-1525)

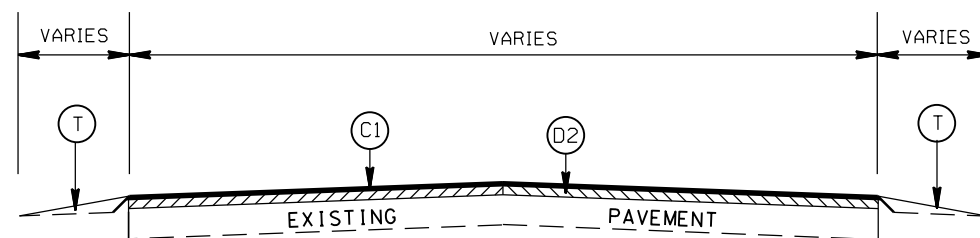
SCALE	r=50'
DATE	1-2019
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH



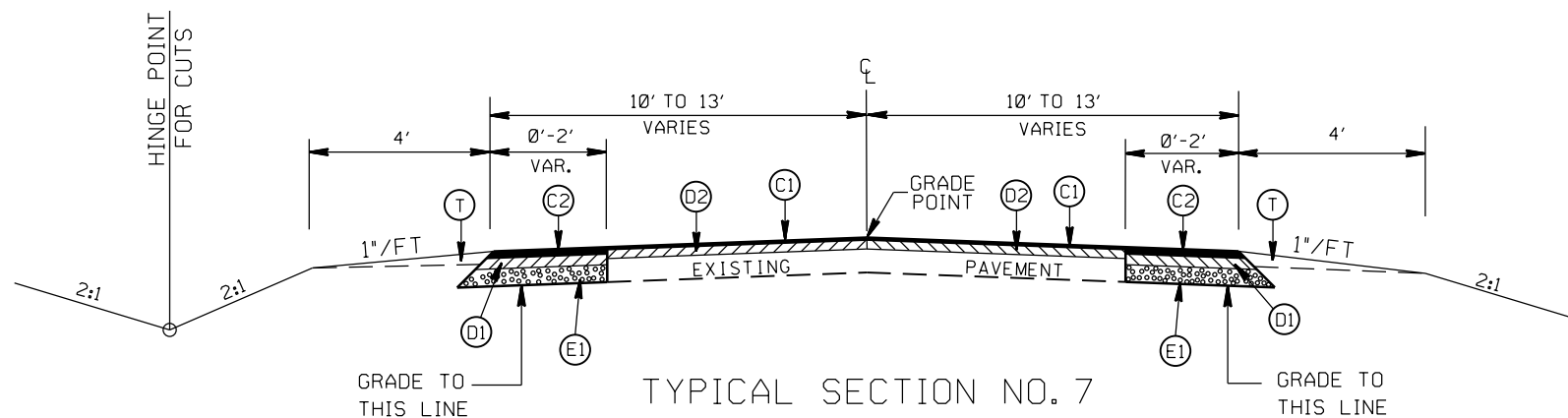
REVISIONS



TYPICAL SECTION NO. 9
 STA. 10+25.00 TO 10+75.00 -Y-
 STA. 18+00.00 TO 18+75.00 -Y-



TYPICAL SECTION NO. 8
 STA. 18+91.00 TO 19+50.00 -L-
 STA. 12+76.00 TO 13+01.00 -L-



TYPICAL SECTION NO. 7
 STA. 18+50.00 TO 18+91.00 -L-

PAVEMENT SCHEDULE

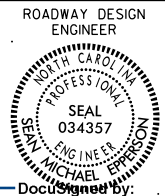
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, 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.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL

ROUNDABOUT AT THE INTERSECTION
 OF NC 218 AND MILL GROVE RD. (SR-1525)

SCALE	r=50'
DATE	1-2019
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH

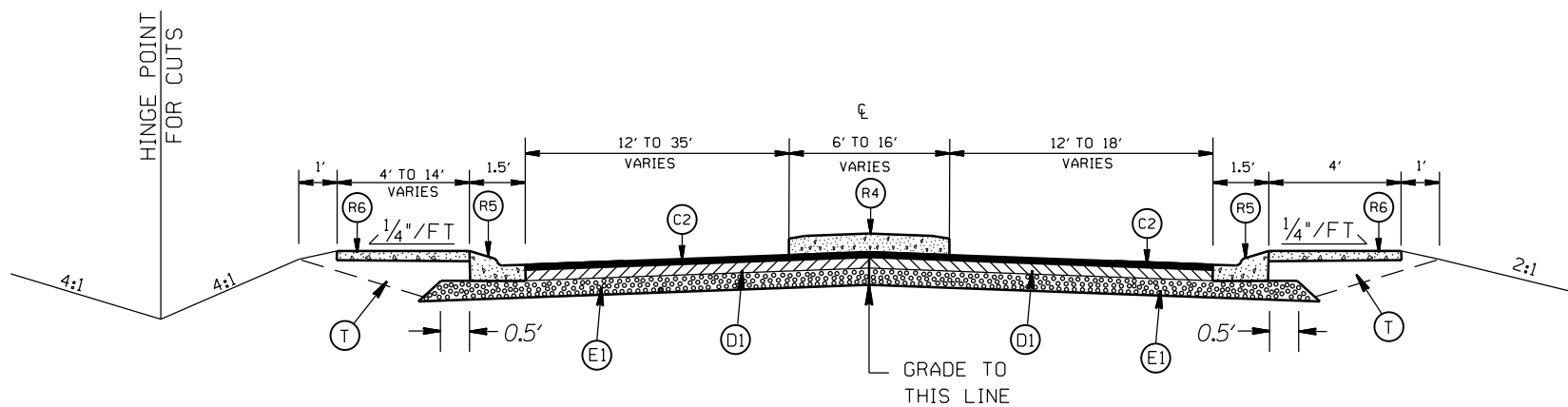


REVISIONS	

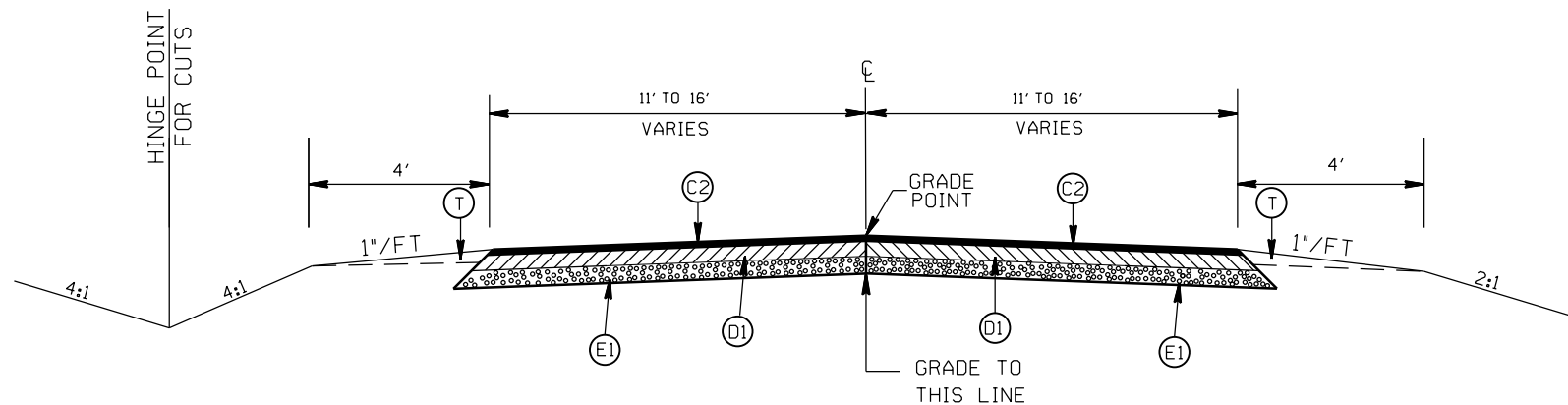


Documented by:
Michael J. Johnson

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TYPICAL SECTION NO. 11
STA. 12+95.00 TO 13+99.69 -Y-
STA. 15+29.69 TO 16+35.00 -Y-



TYPICAL SECTION NO. 10
STA. 10+75.00 TO 12+95.00 -Y-
STA. 16+35.00 TO 18+00.00 -Y-

PAVEMENT SCHEDULE

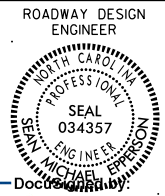
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, 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.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL

ROUNDBOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD. (SR-1525)

SCALE r=50'
DATE 1-2019
DWG. BY JCB
DESIGN BY JDH
APPROVED JDH



REVISIONS

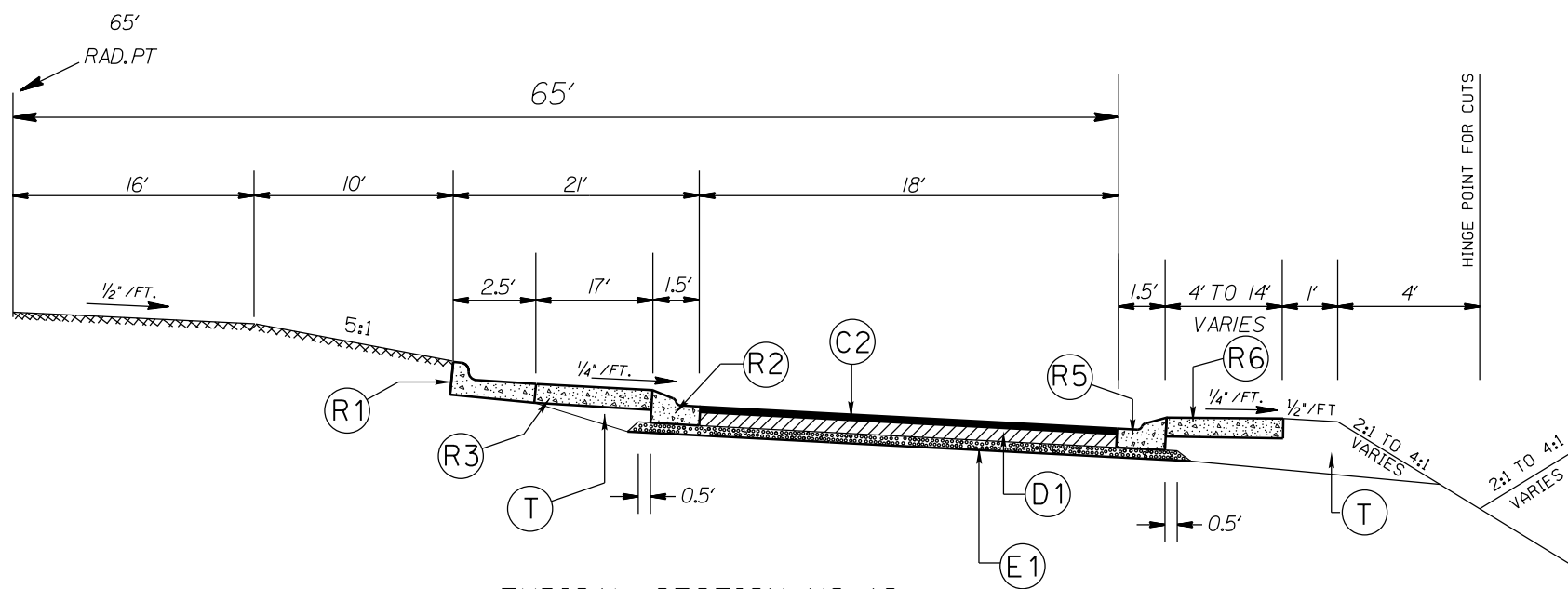


DocuSign by: *Michael J. Harris*

A92E75CC0FFB43B...

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, 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.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
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(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL



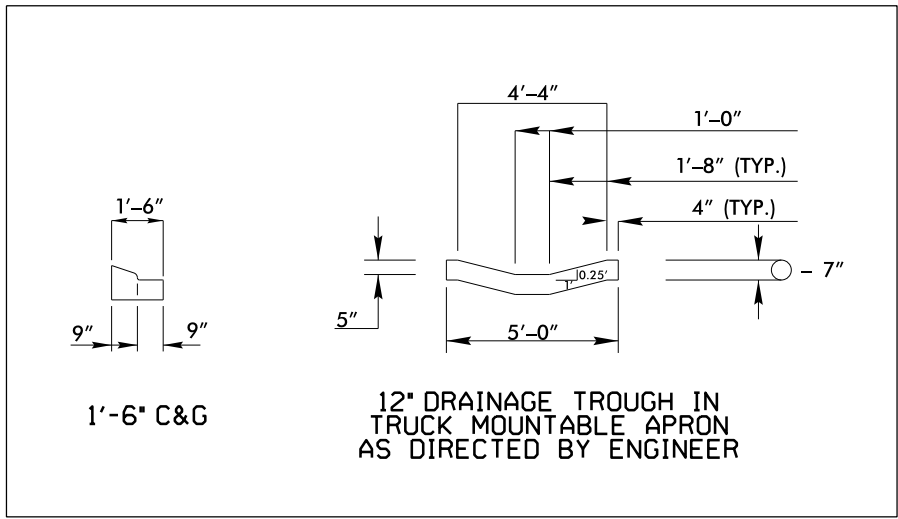
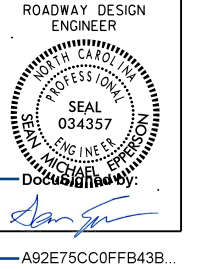
TYPICAL SECTION NO. 12
ROUNDBOUT

ROUNDBOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD. (SR-1525)

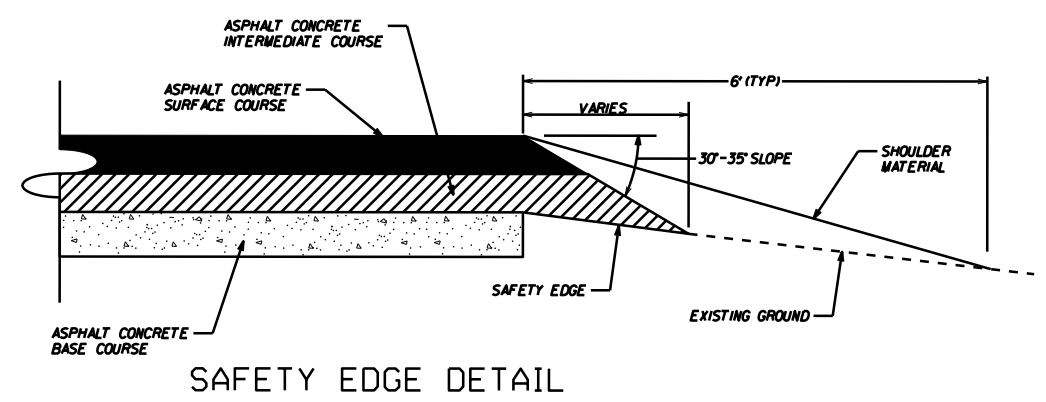
SCALE: r=50'
DATE: 1-2018
DWG. BY: JCB
DESIGN BY: JDH
APPROVED: JDH



REVISIONS	



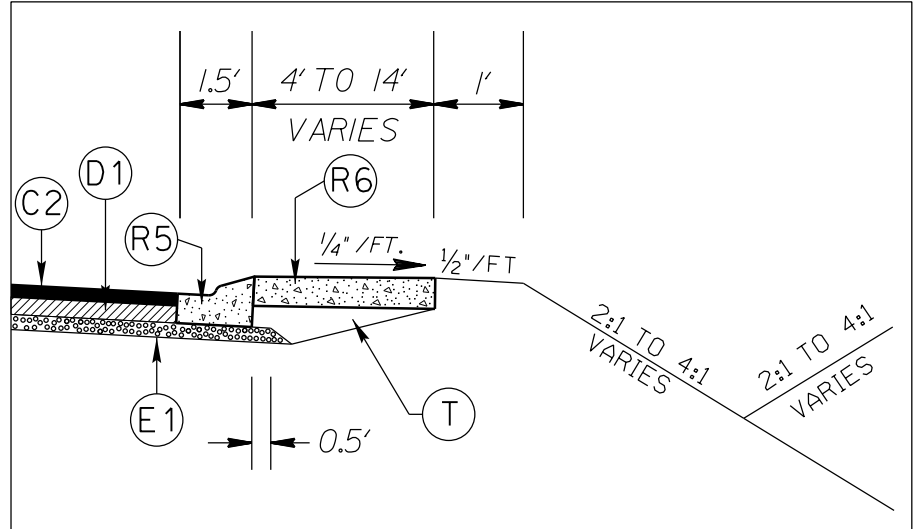
DRAINAGE TROUGH DETAIL



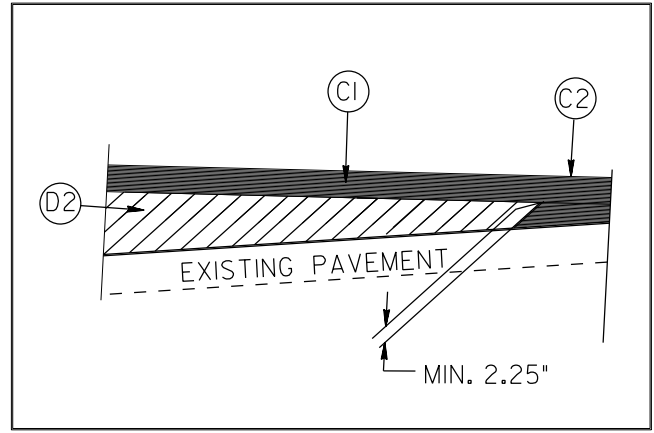
SAFETY EDGE DETAIL

PAVEMENT SCHEDULE

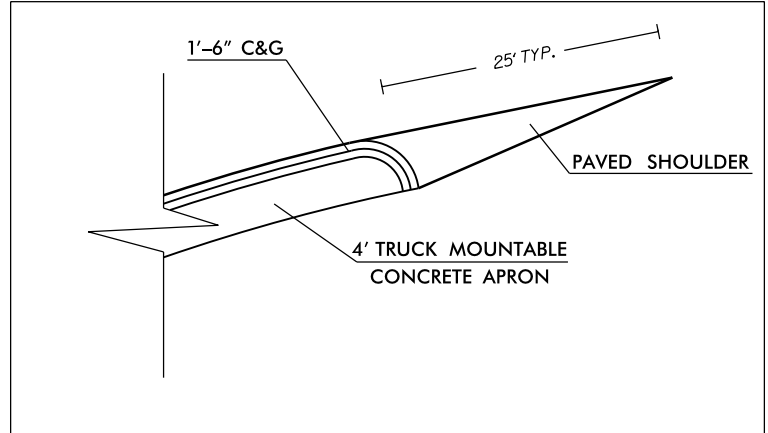
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, 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.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R2)	PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(R5)	PROP. 1'-6" CONC. CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R6)	PROP. 7" TRUCK MOUNTABLE CONC. ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(T)	EARTH MATERIAL



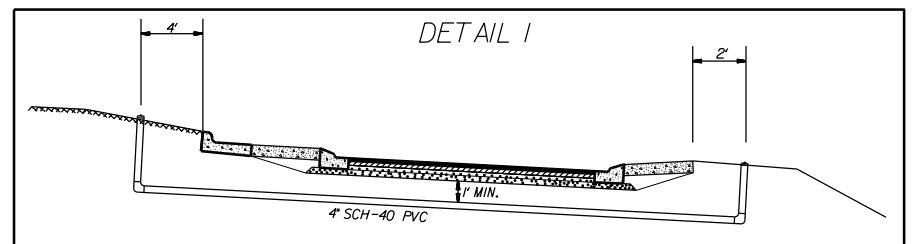
APRON DETAIL



WEDGING DETAIL



CURB DETAIL



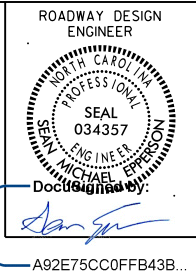
PVC PIPE DETAIL

ROUNDABOUT AT THE INTERSECTION OF NC 218 AND MILL GROVE RD. (SR-1525)

SCALE	r=50'
DATE	1-2018
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH



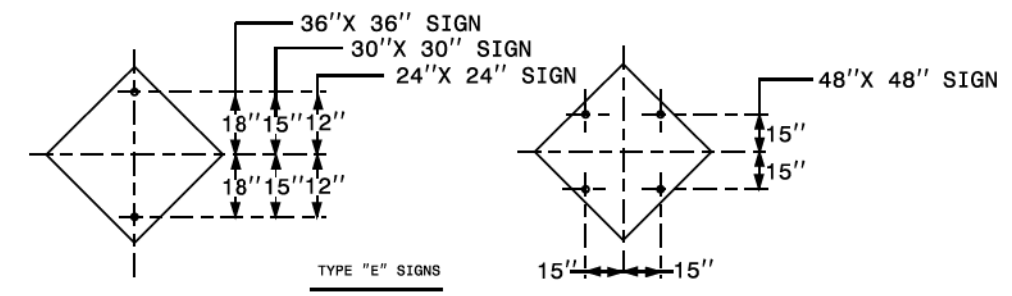
REVISIONS	



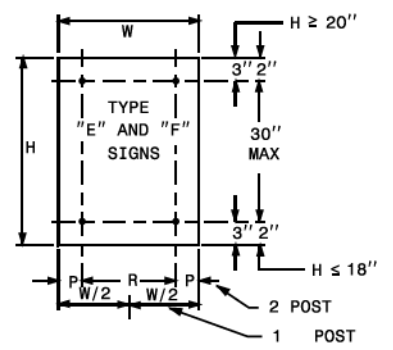
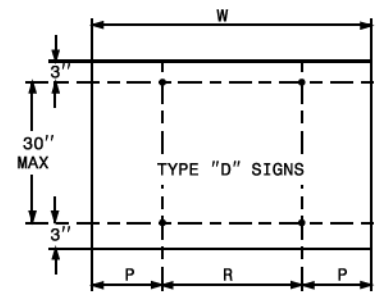
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

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



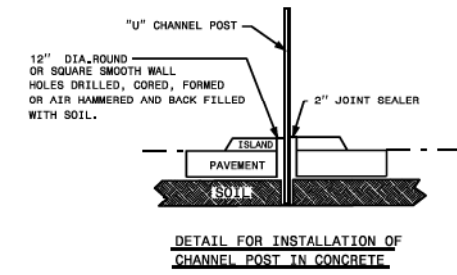
TYPE "E" SIGNS



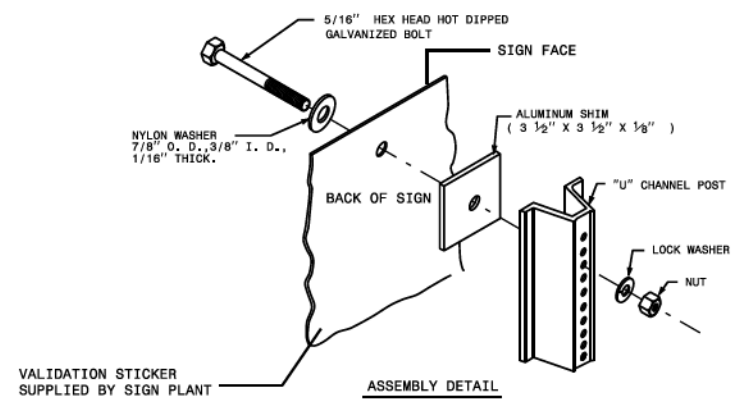
	NO. SUPPORTS		
	2	3 *	4
P	.207W	.145W	.107W
R	.586W	.355W	.262W

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

HOLE PUNCHING DETAIL



DETAIL FOR INSTALLATION OF CHANNEL POST IN CONCRETE



ASSEMBLY DETAIL

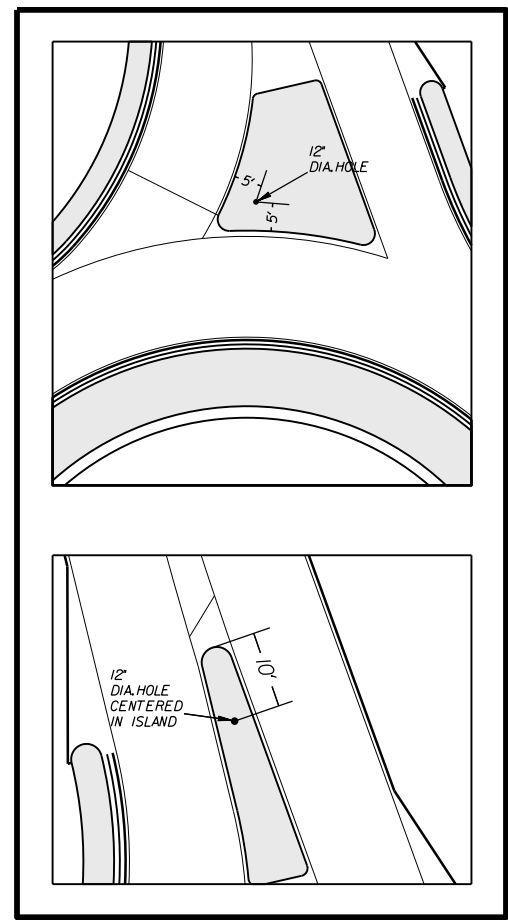
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

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

SHEET 2 OF 2
904.50

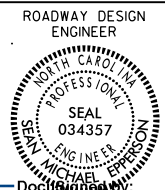
12" DIA. HOLE LOCATION FOR SIGN U-CHANNEL POST IN SPLITTER ISLANDS



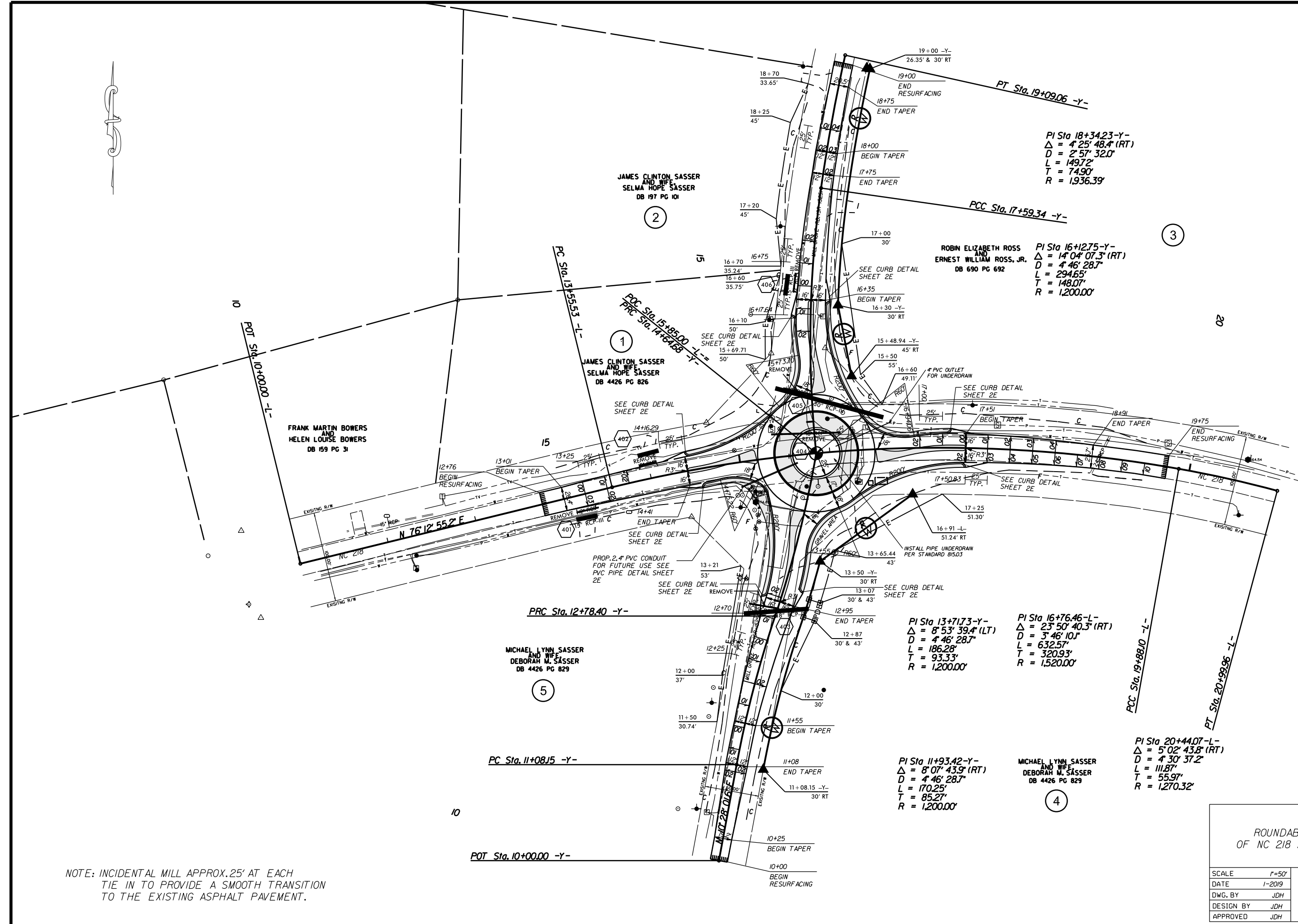
ROUNDABOUT AT THE INTERSECTION OF NC 218 AND MILL GROVE RD. (SR-1525)

SCALE	N/A		REVISIONS
DATE	1-2018		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		

SHEET 2 OF 2
904.50



DocuSign by: *[Signature]*
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NOTE: INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

ROUNDBOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD. (SR-1525)

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

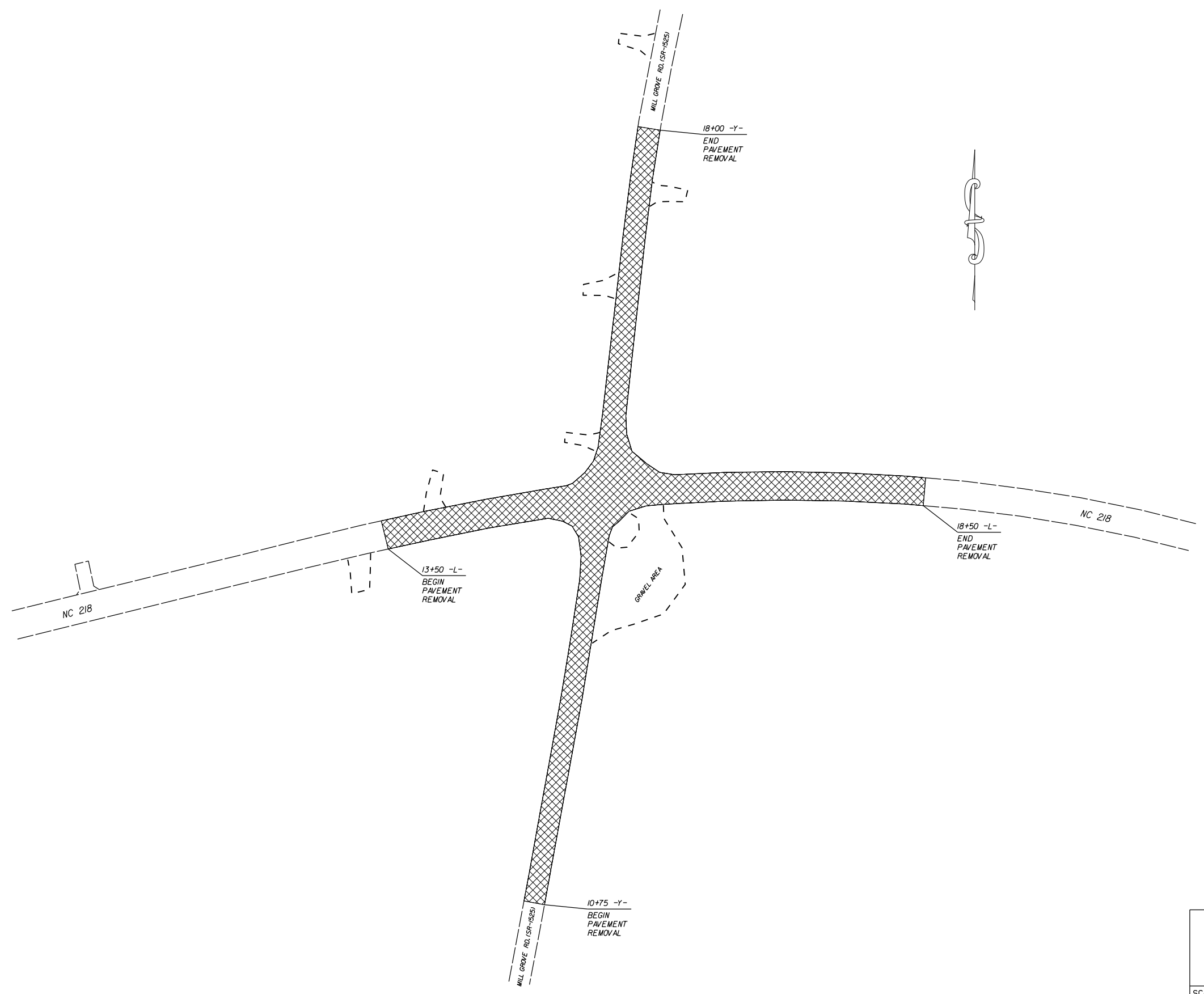
PROJECT NO.	SHEET NO.
44856.3.8	5
F.A. PROJECT NO. HSP-0218(015)	

ROADWAY DESIGN
ENGINEER




Documented by:
Jan [Signature]

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 PAVEMENT REMOVAL

ROUNDABOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD. (SR-1525)

SCALE	r=50'		REVISIONS
DATE	1-2018		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		

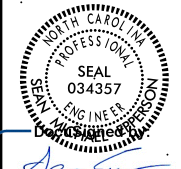
5/14/99

PROJECT REFERENCE NO. SHEET NO.

44856.38 6

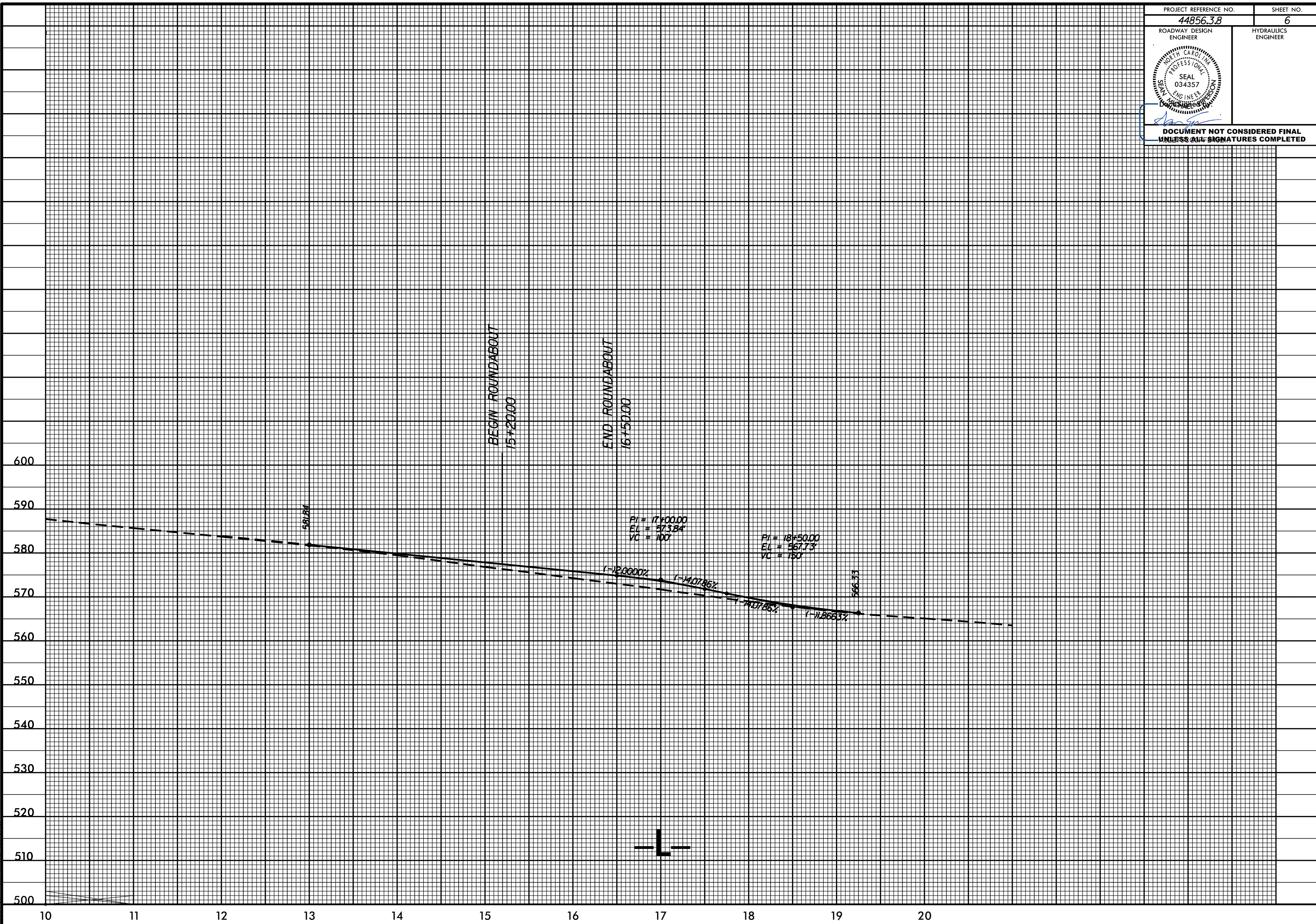
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

23-JAN-2019 16:28 S:\DDC\RDY\Union\w=5710\nc218.m11 Grove_RAB\p1\nc218.m11_grove.ur8.pfl.L.dgn



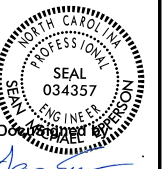
5/14/99

PROJECT REFERENCE NO. SHEET NO.

44856.38 7

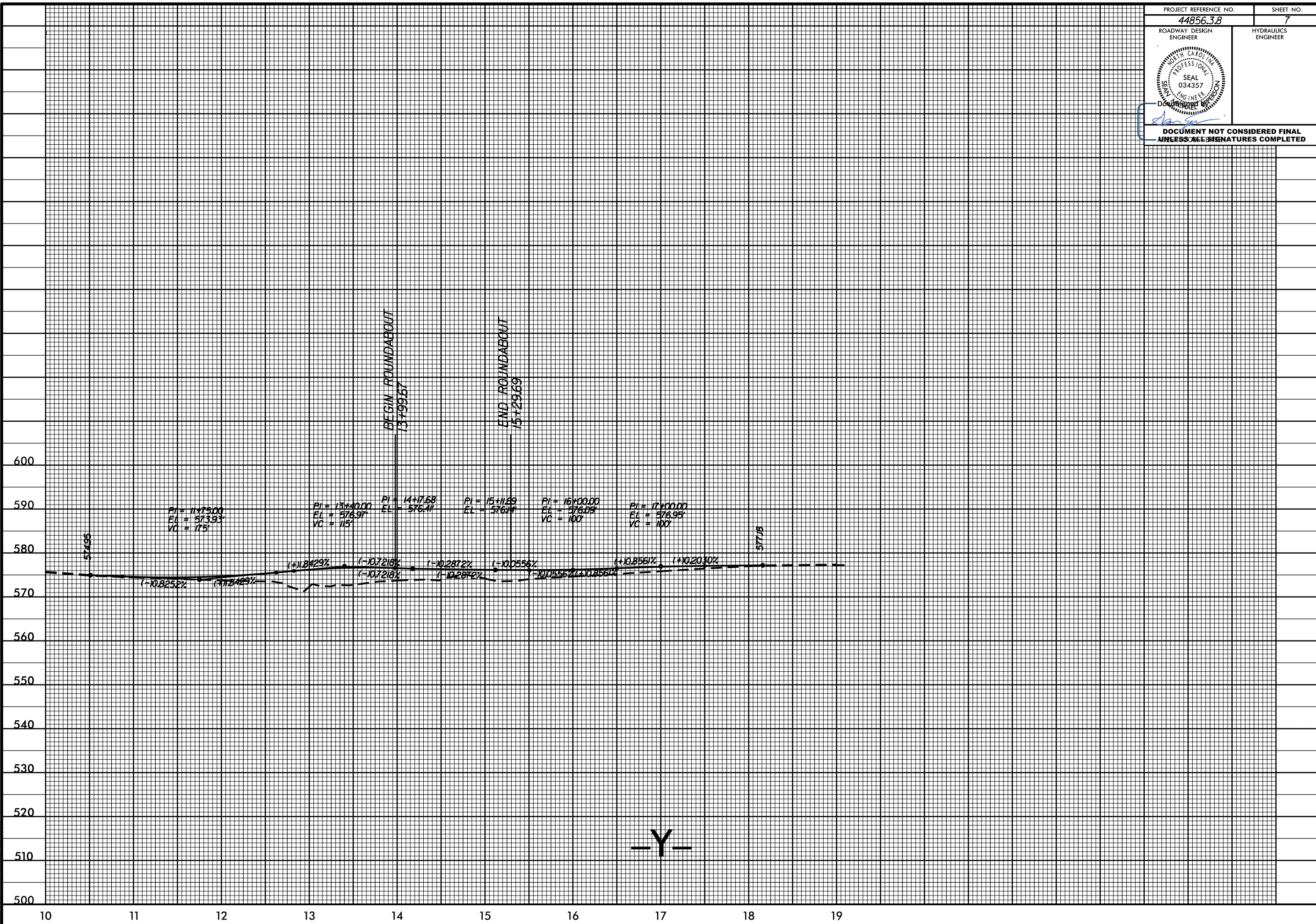
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER



DOCUMENT NOT CONSIDERED FINAL UNLESS SIGNATURES COMPLETED

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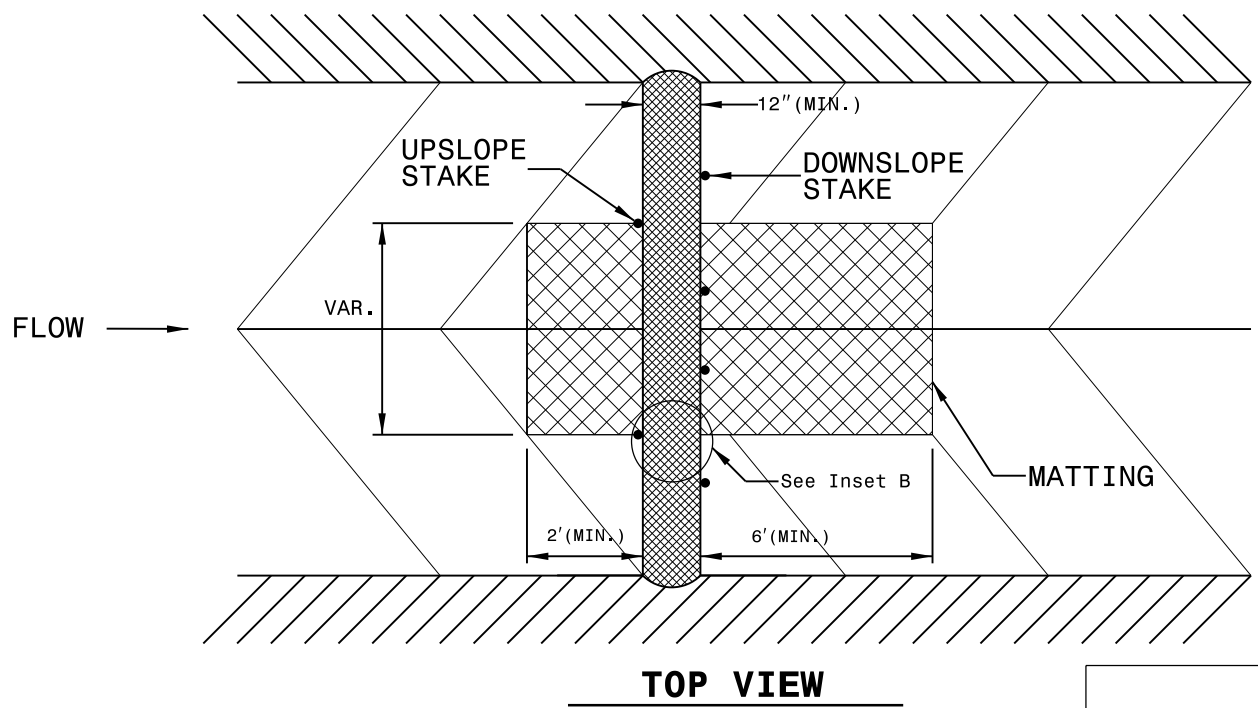
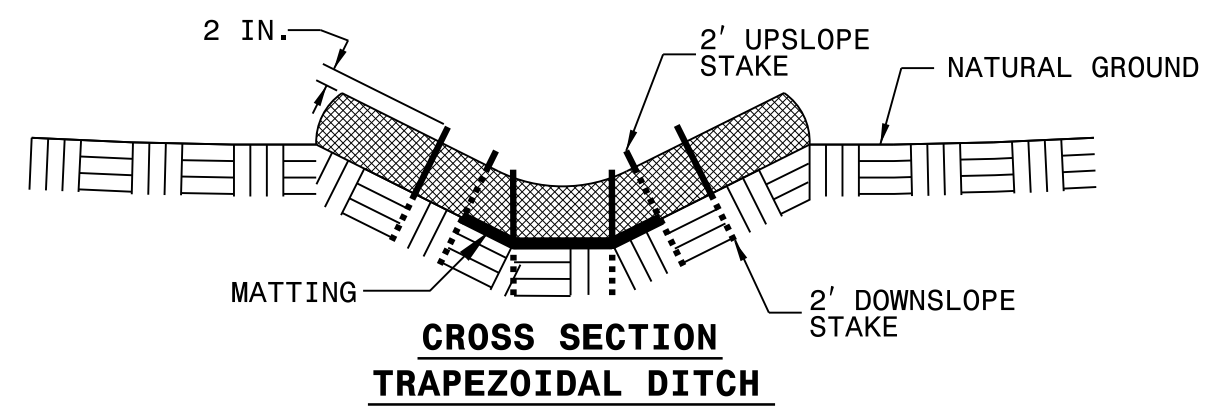
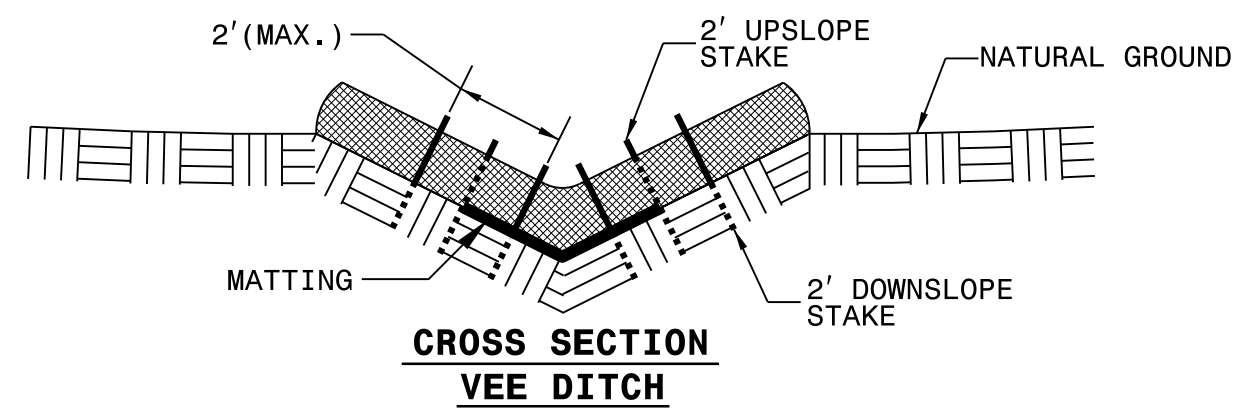
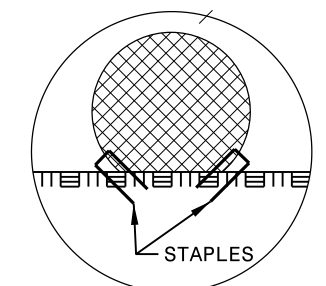
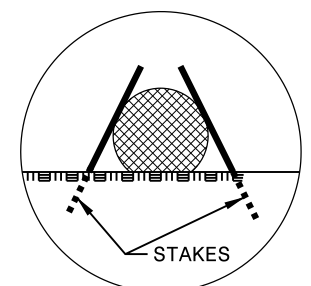
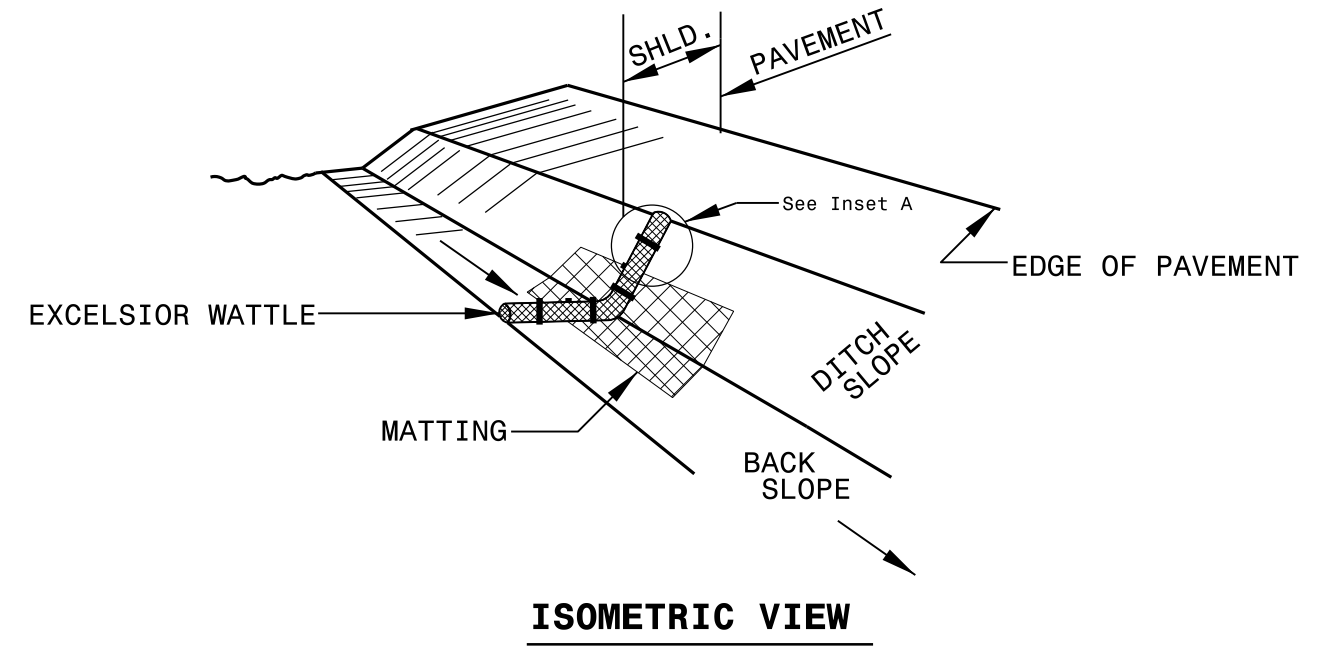


-Y-

WATTLE DETAIL

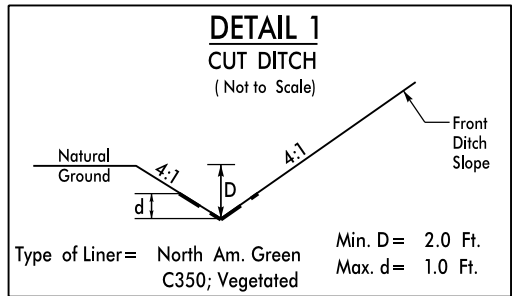
NOTES:

- 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.

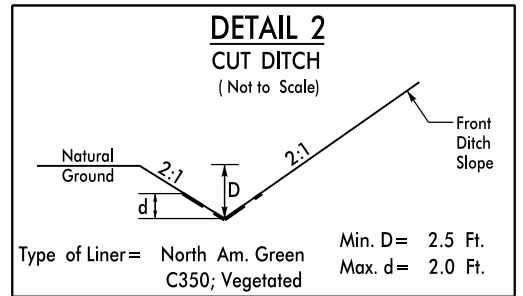


ROUNDBOUT AT THE INTERSECTION OF NC 218 AND MILL GROVE RD. (SR-1525)

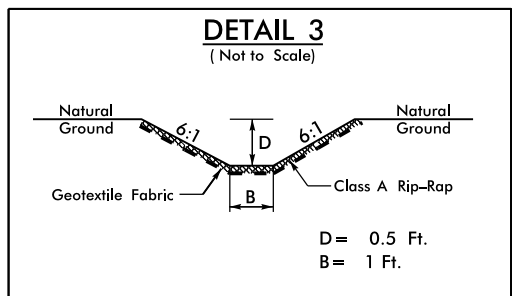
SCALE	r=50'		REVISIONS
DATE	1-2018		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		



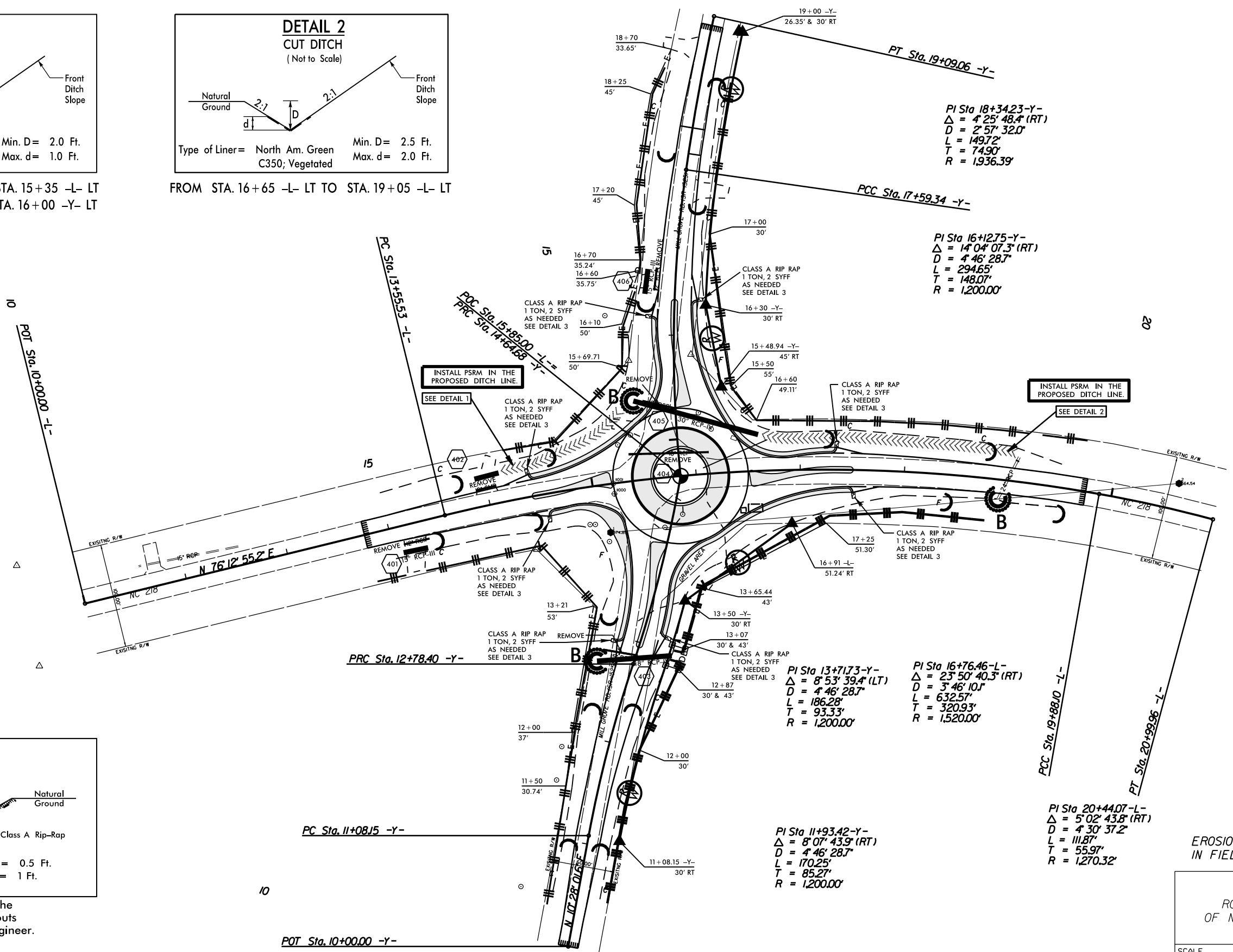
FROM STA. 14+10 -L- LT TO STA. 15+35 -L- LT
AND STA. 15+40 -Y- LT TO STA. 16+00 -Y- LT



FROM STA. 16+65 -L- LT TO STA. 19+05 -L- LT



To be placed at the end of Curb Turnouts as directed by the Engineer.



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

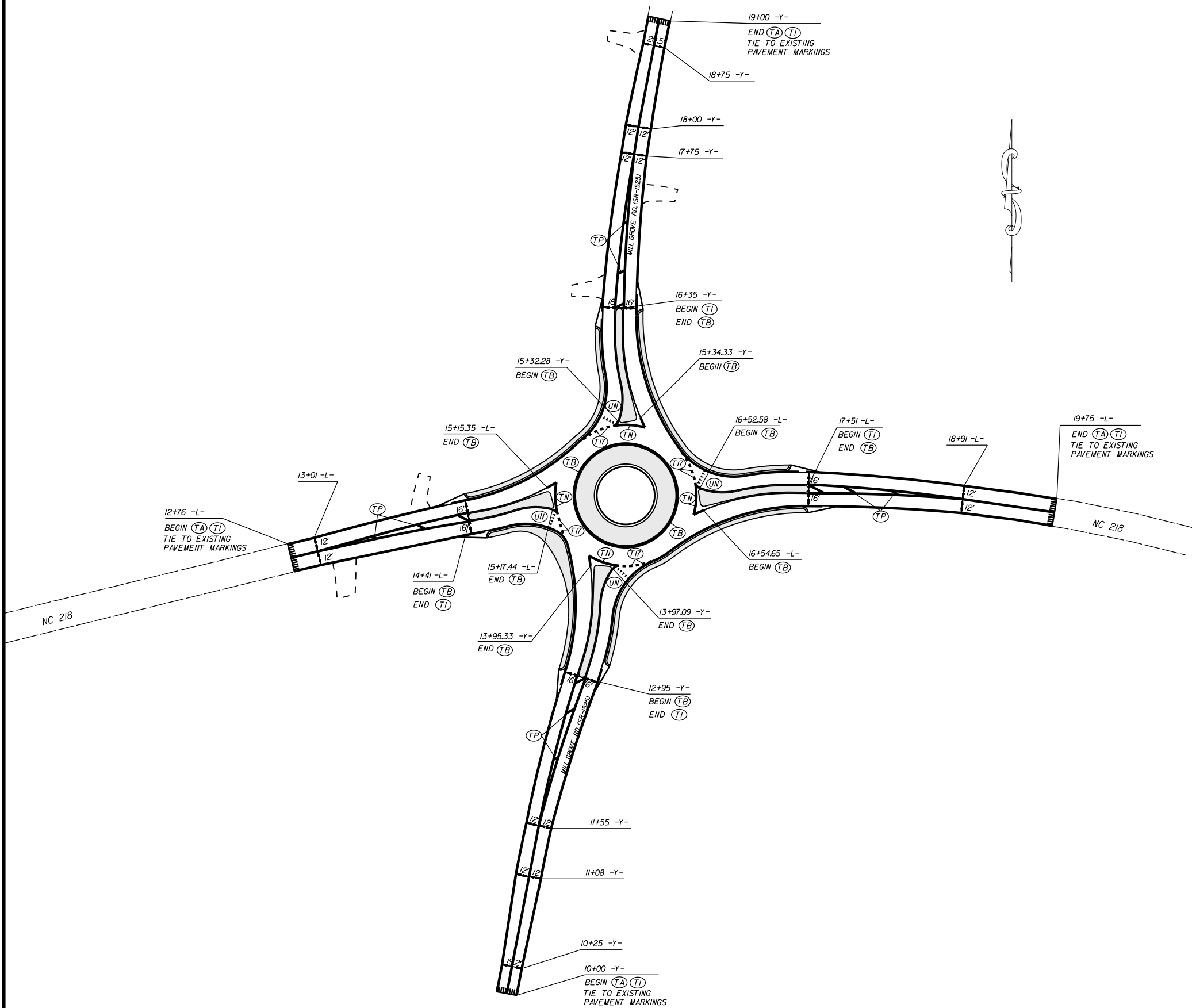
ROUNDABOUT AT THE INTERSECTION OF NC 218 AND MILL GROVE RD (SR-1525)

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

ROADWAY DESIGN ENGINEER

Documented by: *[Signature]*

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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',.90 MIL) | TI - WHITE LINE, RR X (16',.90 MIL) |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4',.90 MIL) | T2 - WHITE STOPBAR (24',.90 MIL) |
| TE - WHITE SOLID LANE LINE (4',.90 MIL) | T3 - WHITE CROSSWALK LINE (24',.90 MIL) |
| TF - 10FT. YELLOW SKIP (4',.90 MIL) | T4 - WHITE RUMBLE STRIP (4',.240 MIL) |
| TH - YELLOW SINGLE CENTER (4',.90 MIL) | T5 - WHITE RUMBLE STRIP (4',.240 MIL) |
| TI - YELLOW DOUBLE CENTER (4',.90 MIL) | T6 - WHITE EDGELINE (16',.90 MIL) |
| TJ - 10FT. WHITE SKIP (16',.90 MIL) | T7 - YELLOW EDGELINE (16',.90 MIL) |
| TK - 3FT.-9FT./SP WHITE MINISKIP (16',.90 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4',.90 MIL) |
| TL - WHITE SOLID LANE LINE (16',.90 MIL) | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',.90 MIL) |
| TM - 10FT. YELLOW SKIP (16',.90 MIL) | T10 - 3FT.-3FT./SP WHITE MINISKIP (12',.90 MIL) |
| TN - WHITE GORELINE (8',.90 MIL) | T11 - 2FT.-6FT./SP WHITE MINISKIP (16',.90 MIL) |
| TO - WHITE DIAGONAL (8',.90 MIL) | T12 - 2FT.-6FT./SP YELLOW MINISKIP (16',.90 MIL) |
| TP - YELLOW DIAGONAL (8',.90 MIL) | T13 - 3FT.-9FT./SP WHITE MINISKIP (16',.90 MIL) |
| TQ - WHITE CROSSWALK LINE (8',.90 MIL) | T14 - 3FT.-9FT./SP WHITE MINISKIP (12',.90 MIL) |
| TR - WHITE SOLID LANE LINE (8',.90 MIL) | T15 - YELLOW SINGLE CENTER (16',.90 MIL) |
| TS - WHITE GORELINE (12',.90 MIL) | T16 - YELLOW DOUBLE CENTER (16',.90 MIL) |
| TT - WHITE SOLID LANE LINE (12',.90 MIL) | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (18',.90 MIL) |

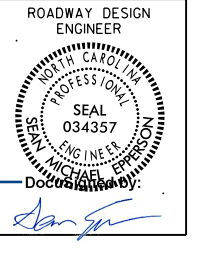
PAVEMENT MARKING SYMBOLS

- | | |
|--|--|
| 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. (90 MIL) | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UJ - BICYCLE SYMBOL (90 MIL) | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL) | MB - PERMANENT RAISED MARKER (YELLOW & RED) |
| UL - BICYCLE CHAR. (90 MIL) | MC - PERMANENT RAISED MARKER (YELLOW & RED) |
| UM - 12" YIELD LINE TRIANGLE (90 MIL) | MD - PERMANENT RAISED MARKER (YELLOW) |
| UN - 24" YIELD LINE TRIANGLE (90 MIL) | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW) |
| UO - BICYCLE LEFT ARROW (90 MIL) | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED) |
| UP - MERGE ARROW (90 MIL) | MG - SNOWPLOWABLE MARKER (YELLOW & RED) |
| UQ - RAMP ARROW SYMBOL (90 MIL) | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL) |
| UR - SHARROW (90 MIL) | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL) |
| US - BICYCLE LOOP DETECTOR (90 MIL) | |
| UT - U-TURN ARROW (90 MIL) | |

ROUNDABOUT AT THE INTERSECTION
OF NC 218 AND MILL GROVE RD.(SR-1525)

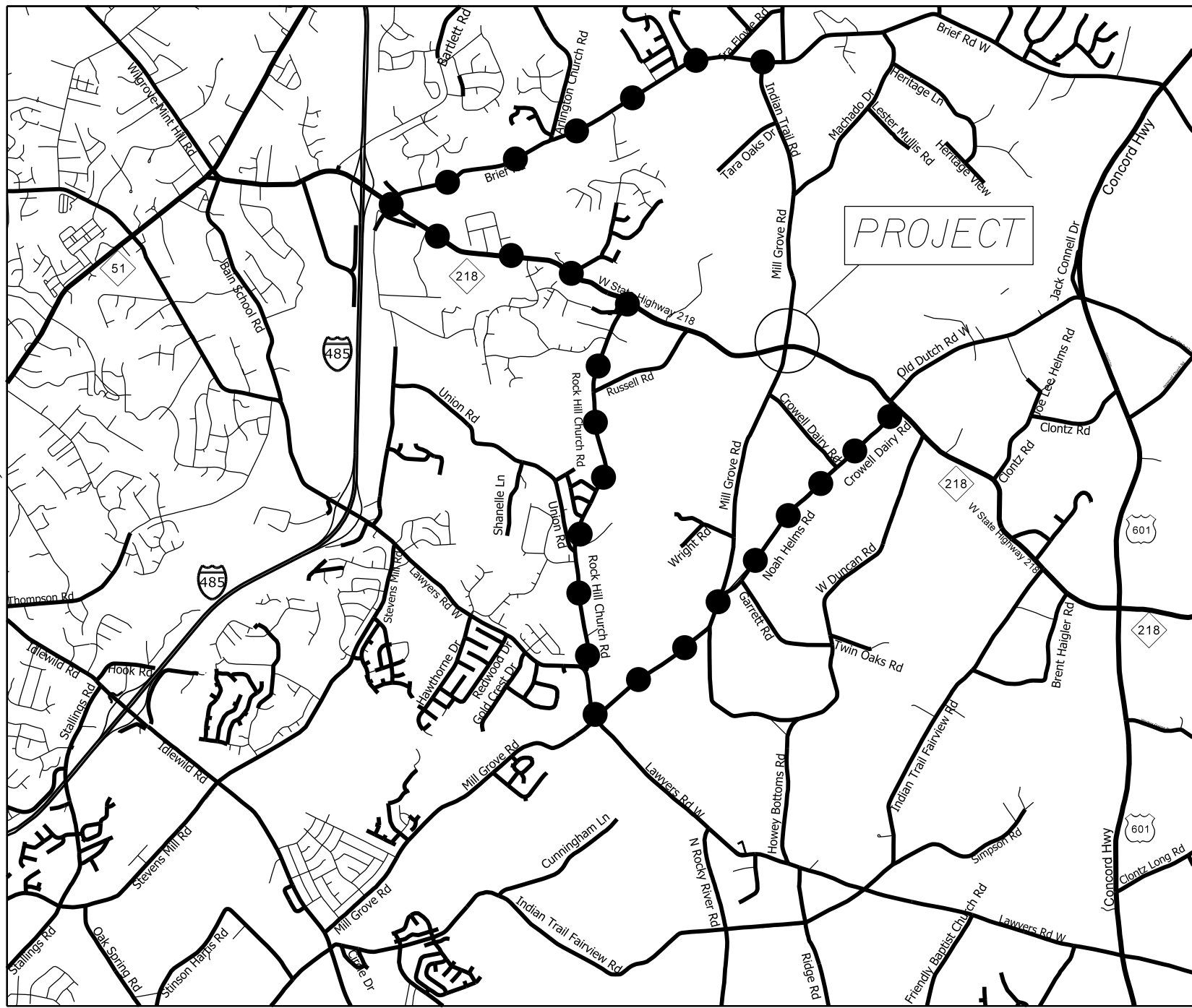
SCALE	r=50'		REVISIONS
DATE	1-2019		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
44856.3.8	TCP-1
F.A. PROJECT NO.	HSIP-02181051

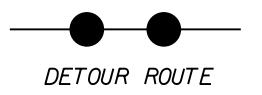


OFFSITE DETOUR

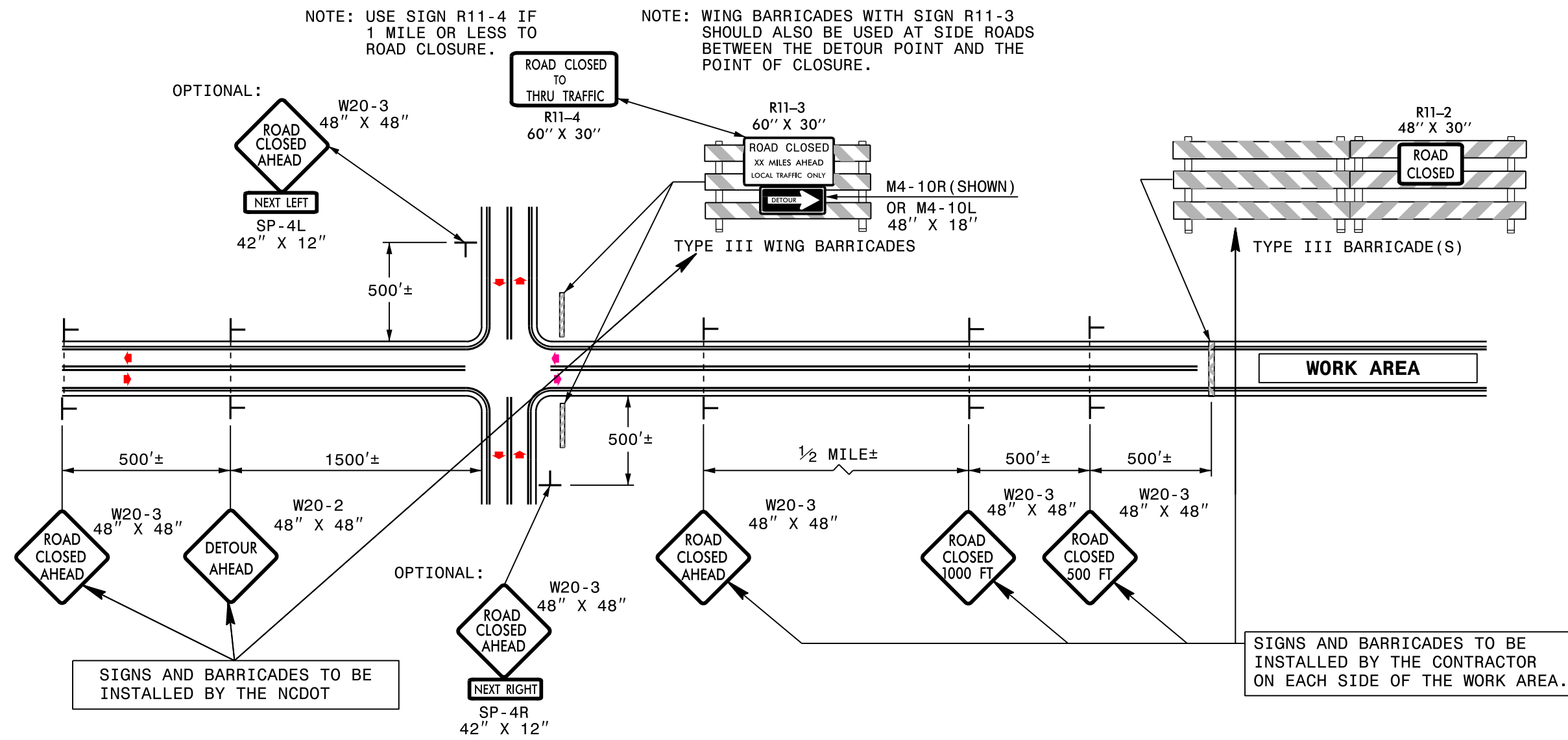
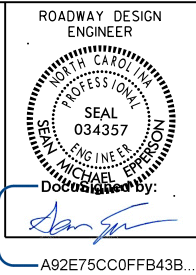
OFFSITE DETOUR TO BE INSTALLED AND MAINTAINED BY NCDOT.
 THE CONTRACTOR IS RESPONSIBLE FOR THE BARRACADES ON THE PROJECT. SEE SHEET TCP-2



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



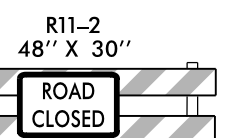
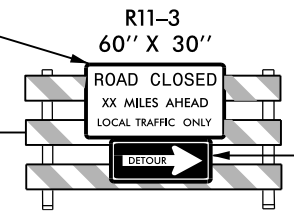
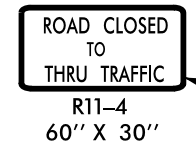
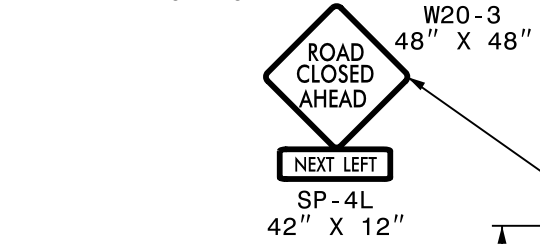
ROUNDABOUT AT THE INTERSECTION OF NC 218 AND MILL GROVE RD. (SR-1525)			REVISIONS
SCALE	1"=50'		
DATE	1-2019		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		



NOTE: USE SIGN R11-4 IF 1 MILE OR LESS TO ROAD CLOSURE.

NOTE: WING BARRICADES WITH SIGN R11-3 SHOULD ALSO BE USED AT SIDE ROADS BETWEEN THE DETOUR POINT AND THE POINT OF CLOSURE.

OPTIONAL:



SIGNS AND BARRICADES TO BE INSTALLED BY THE NCDOT

SIGNS AND BARRICADES TO BE INSTALLED BY THE CONTRACTOR ON EACH SIDE OF THE WORK AREA.

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.

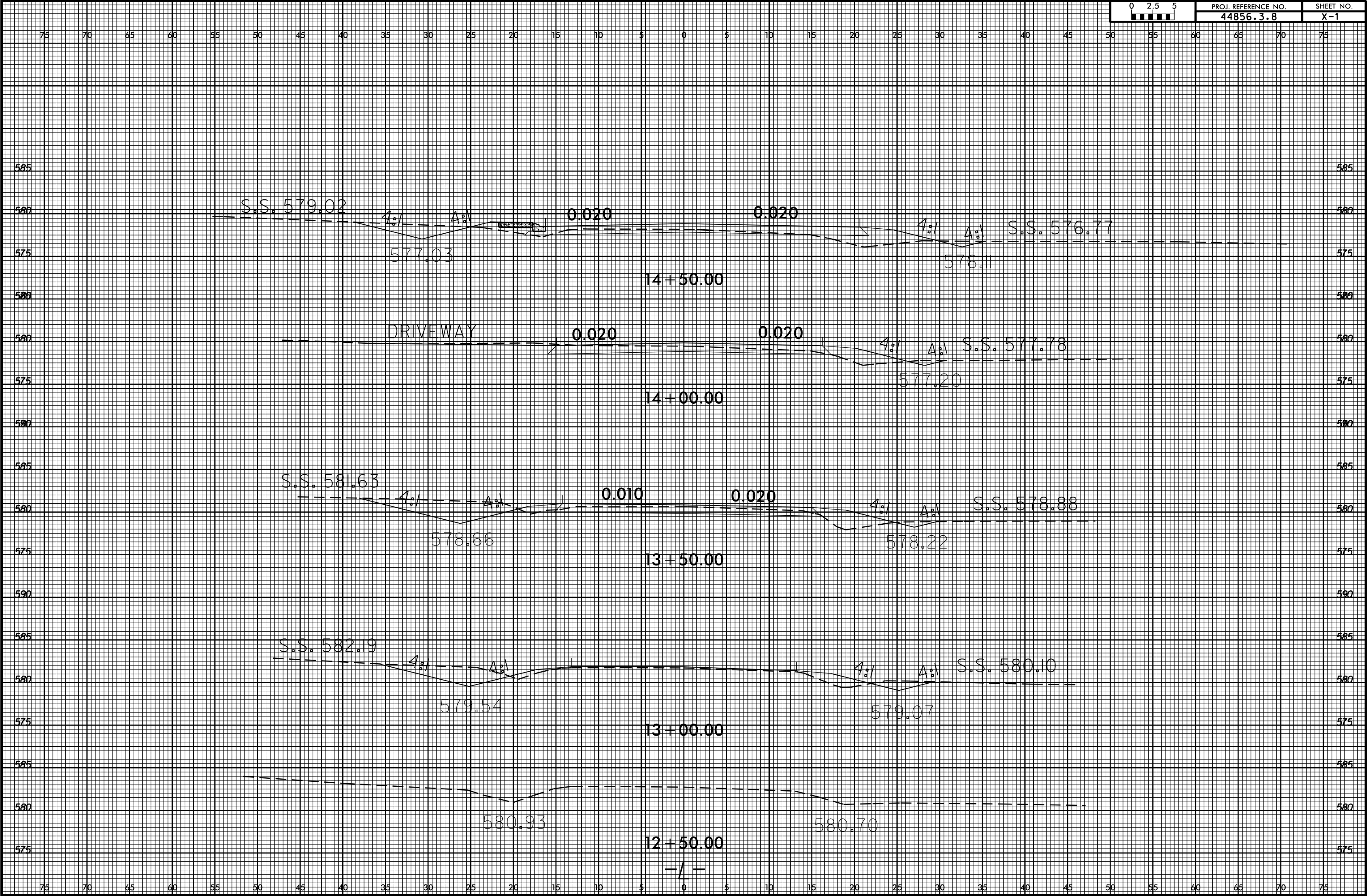
LEGEND

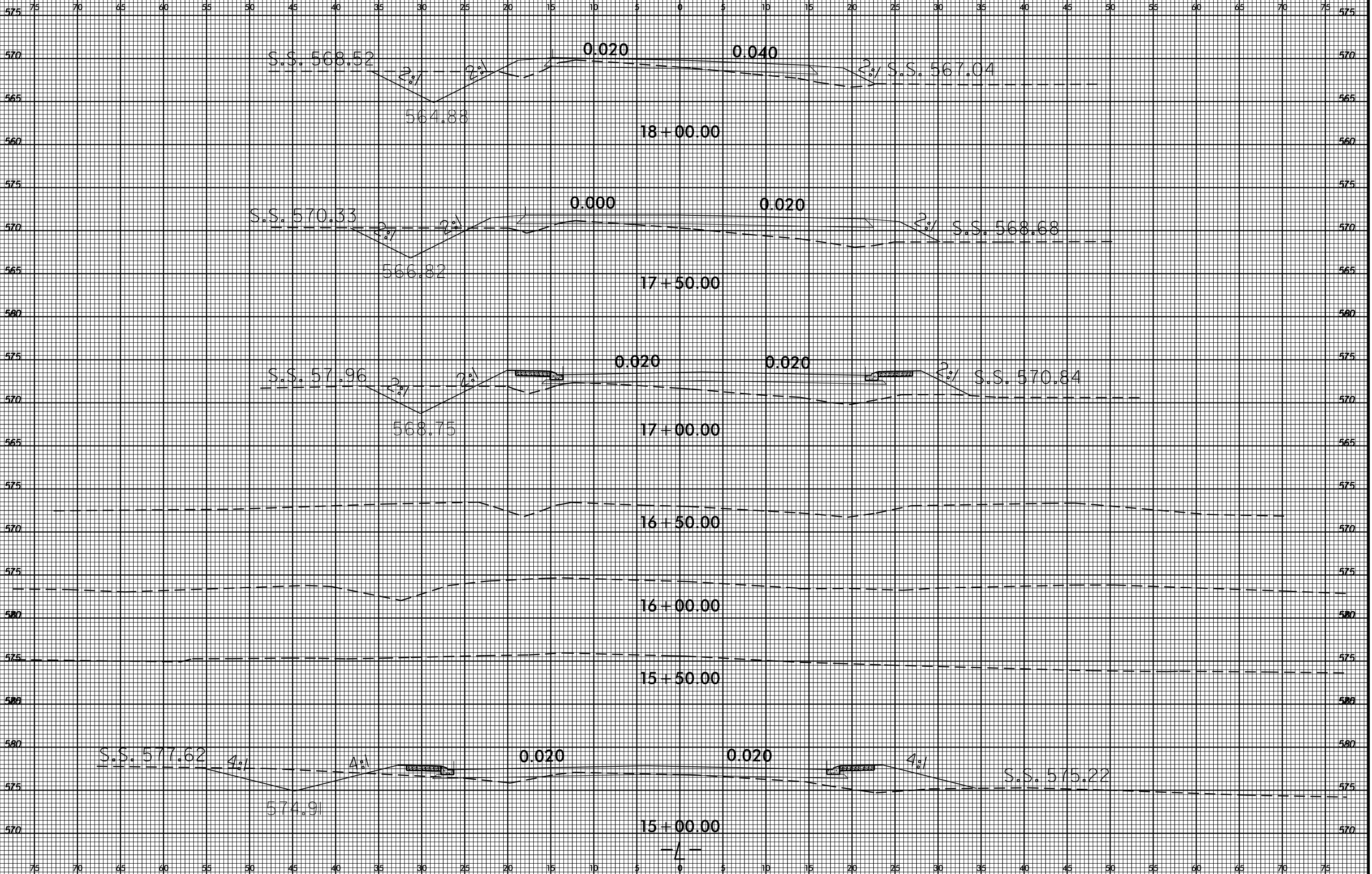
┆ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

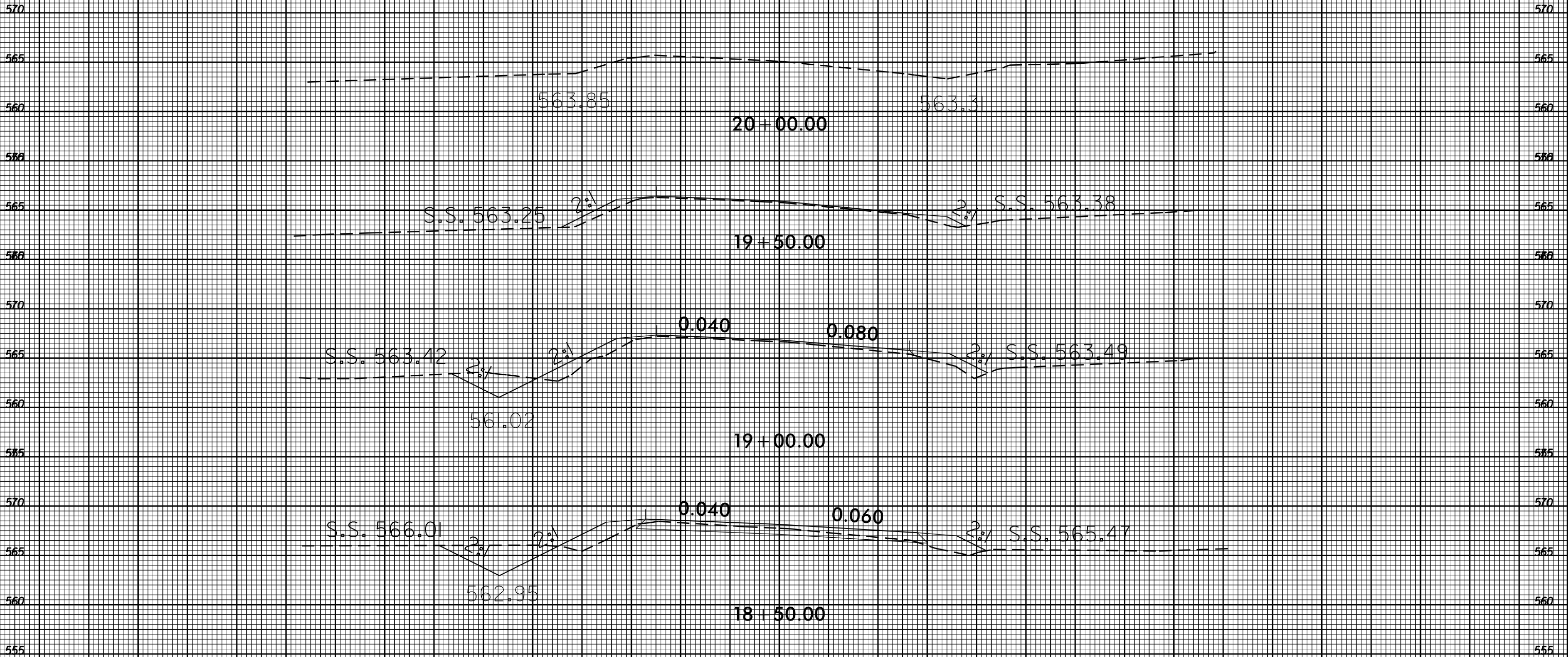
ROUNDABOUT AT THE INTERSECTION OF NC 218 AND MILL GROVE RD. (SR-1525)

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





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