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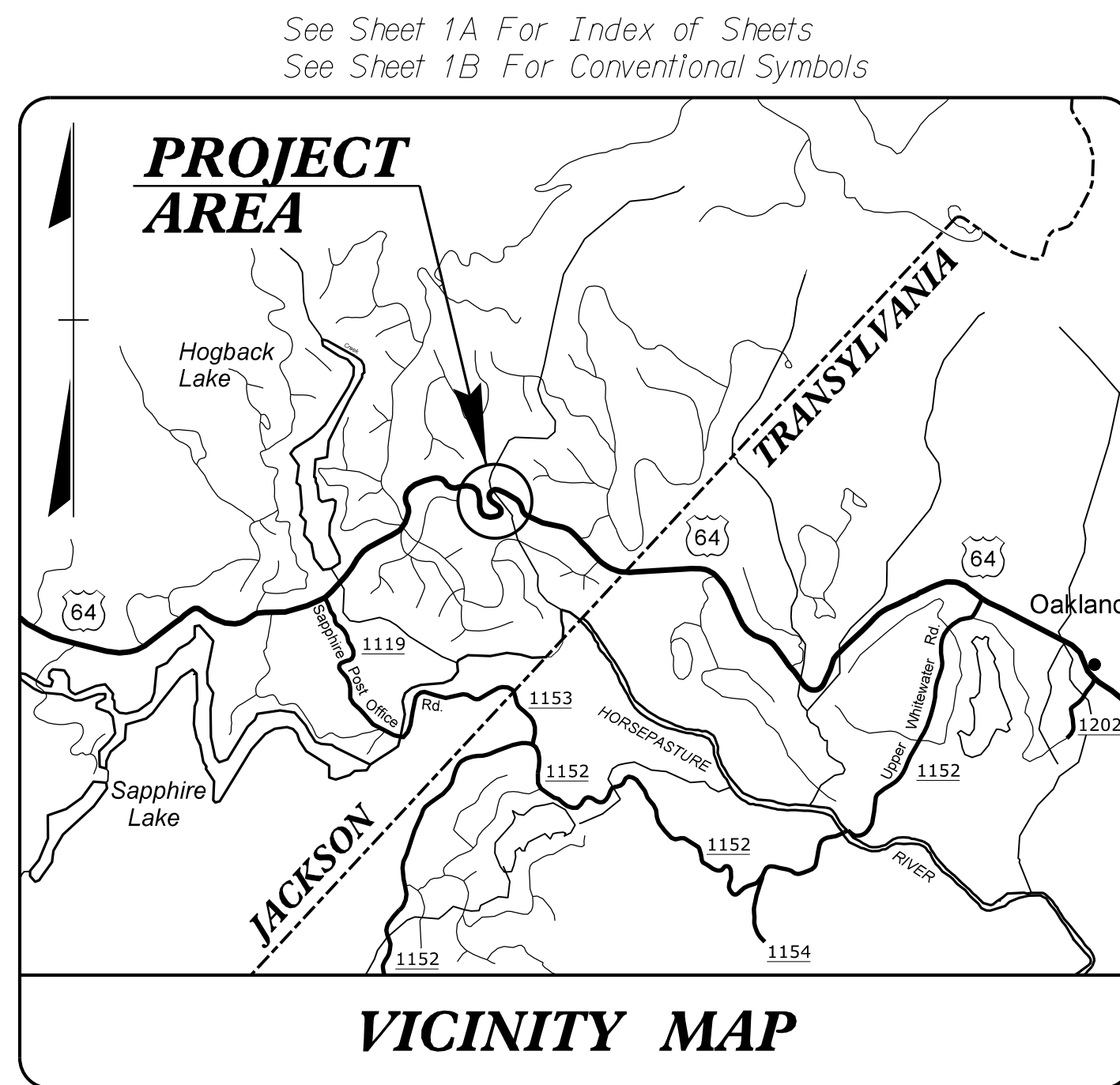
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5714E	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44862.1.5	HSIP-0064(197)	PE	
44862.2.5	HSIP-0064(197)	RW & UTILITIES	
44862.3.5	HSIP-0064(197)	CONSTR.	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

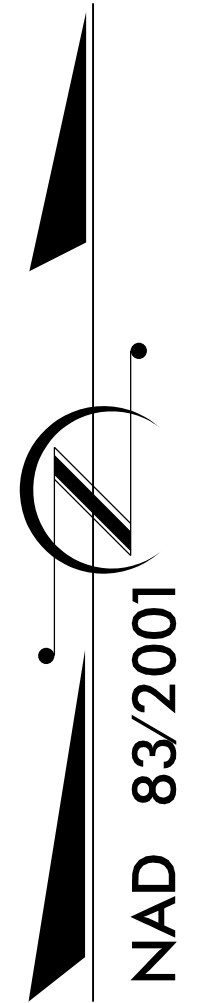
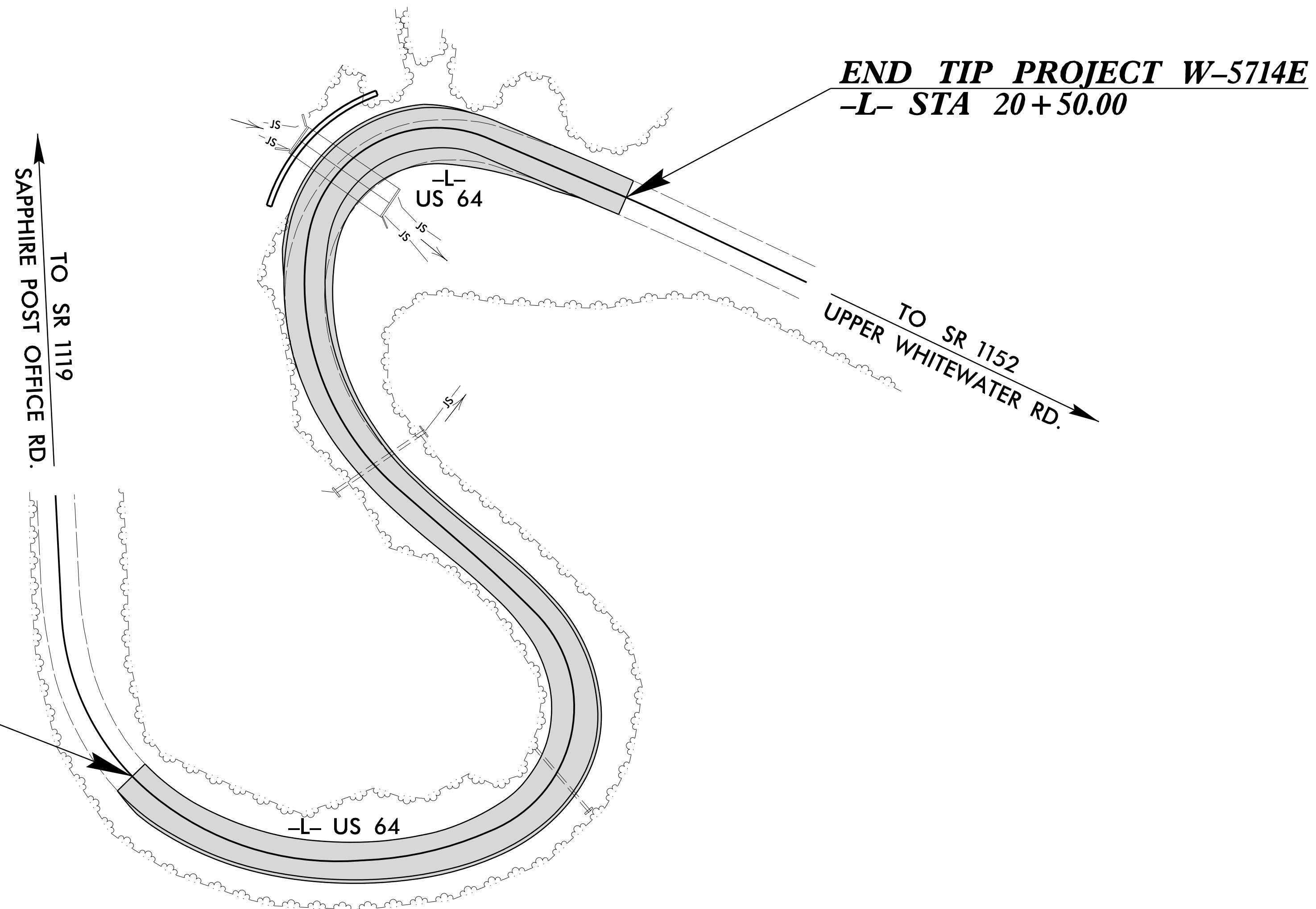
JACKSON COUNTY

LOCATION: US 64, 0.5 MILE WEST OF JACKSON/TRANSYLVANIA COUNTY LINE

TYPE OF WORK: GRADING, PAVING, AND MOMENT SLAB



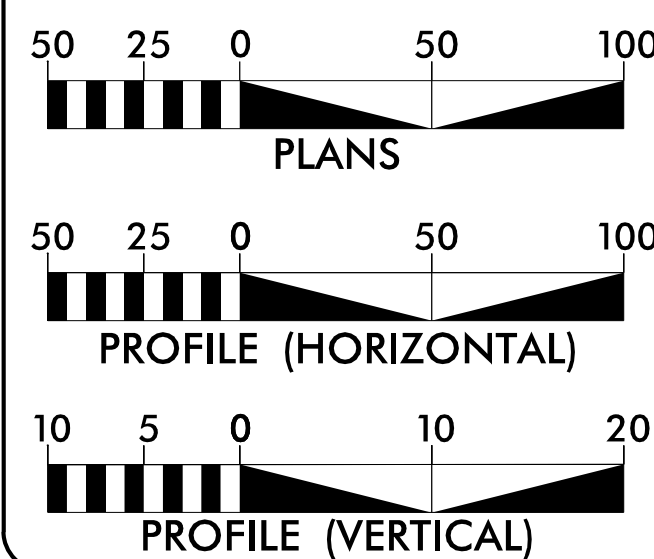
VICINITY MAP



TIP PROJECT: W-5714E

CONTRACT: DN00636

GRAPHIC SCALES



DESIGN DATA

ADT 2015 = 2,700
V = 15 MPH
FUNC CLASS = MINOR ARTERIAL REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT W-5714E = 0.166 MILES
TOTAL LENGTH PROJECT W-5714E = 0.166 MILES

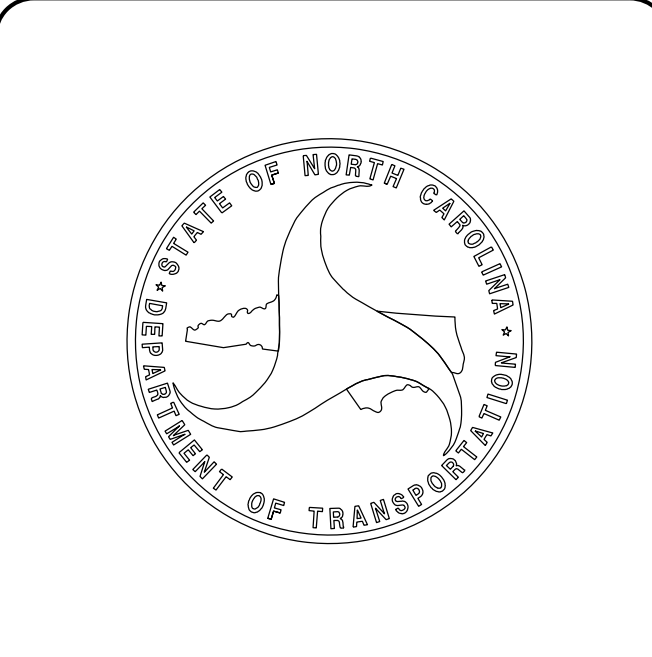
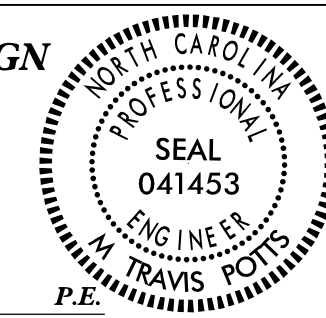
Plans Prepared By:
ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number: C-3239

Plans Prepared For:
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION 14
253 WEBSTER ROAD
SYLVA, NC 28779

2018 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE:
APRIL 12, 2018
LETTING DATE:
APRIL 9, 2019

JONATHAN WOODARD, PE
NCDOT PROJECT ENGINEER
M. TRAVIS POTTS, PE
PROJECT ENGINEER
DAVE JANOSKO, PE
PROJECT DESIGN ENGINEER

ROADWAY DESIGN ENGINEER
DocuSigned by: 2/7/2019
M. Travis Potts
4CB1B21EEB284DF...
SIGNATURE:

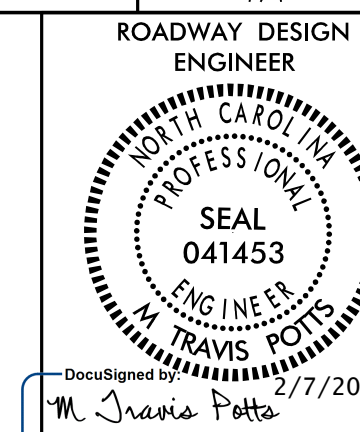


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number : C-3239

Table with 2 columns: PROJECT REFERENCE NO. (W-5714E), SHEET NO. (1A)



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

INDEX OF SHEETS
SHEET NUMBER SHEET
1 TITLE SHEET
1A INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B CONVENTIONAL SYMBOLS
2A-1 PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1 DETAIL IN LIEU OF STANDARD, GUARDRAIL INSTALLATION - SYSTEM PARTS
2G-1 ROCK FILL EMBANKMENT WIDENING DETAIL
3B-1 ROADWAY SUMMARIES
4 THRU 5 PLAN AND PROFILE SHEET
RW01 THRU RW04 RIGHT OF WAY PLANS
TMP-1 THRU TMP-5 TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2 PAVEMENT MARKING PLANS
EC-1 THRU EC-5 EROSION CONTROL PLANS
SIGN-1 THRU SIGN-4 SIGNING PLANS
X-1 CROSS-SECTION SUMMARY SHEET
X-2 THRU X-13 CROSS-SECTIONS
S-1 THRU S-4 MOMENT SLAB PLANS

GENERAL NOTES:
2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:
GRADING AND SURFACING OR RESURFACING AND WIDENING:
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.
CLEARING:
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.
SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.
SHOULDER CONSTRUCTION:
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01
GUARDRAIL:
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.
TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.
SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.
UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY AND FRONTIER COMMUNICATIONS.
RIGHT-OF-WAY MARKERS:
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

2018 ROADWAY ENGLISH STANDARD DRAWINGS EFF. 01-16-2018 REV.
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - 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
DIVISION 2 - EARTHWORK
200.02 Method of Clearing - Method 11
225.02 Guide for Grading Subgrade - Secondary and Local
225.04 Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method 1
DIVISION 8 - INCIDENTALS
806.01 Concrete Right-of-Way Marker
862.01 Guardrail Placement
862.02 Guardrail Installation (Special Detail for Sheet 6 of 8)
862.03 Structure Anchor Units

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- WLB ---
Proposed Wetland Boundary	--- WLB ---
Existing Endangered Animal Boundary	--- EAB ---
Existing Endangered Plant Boundary	--- EPB ---
Existing Historic Property Boundary	--- HPB ---
Known Contamination Area: Soil	☠ -s- ☠
Potential Contamination Area: Soil	☠ -s- ☠
Known Contamination Area: Water	☠ -w- ☠
Potential Contamination Area: Water	☠ -w- ☠
Contaminated Site: Known or Potential	☠ ☠

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	--- JS ---
Buffer Zone 1	--- BZ 1 ---
Buffer Zone 2	--- BZ 2 ---
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	--- WLB ---
Proposed Lateral, Tail, Head Ditch	--- FLOW ---
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◇
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◇
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◇
Vertical Benchmark	△
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite R/W Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	--- C ---
Proposed Slope Stakes Fill	--- F ---
Proposed Curb Ramp	--- CR ---
Existing Metal Guardrail	--- T ---
Proposed Guardrail	--- T ---
Existing Cable Guiderail	--- T ---
Proposed Cable Guiderail	--- T ---
Equality Symbol	⊕
Pavement Removal	⊗

VEGETATION:

Single Tree	☀
Single Shrub	☁

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	☀ ☀ ☀ ☀
Vineyard	□ Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	○
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	○
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	-----

TV:

TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	-----

SANITARY SEWER:

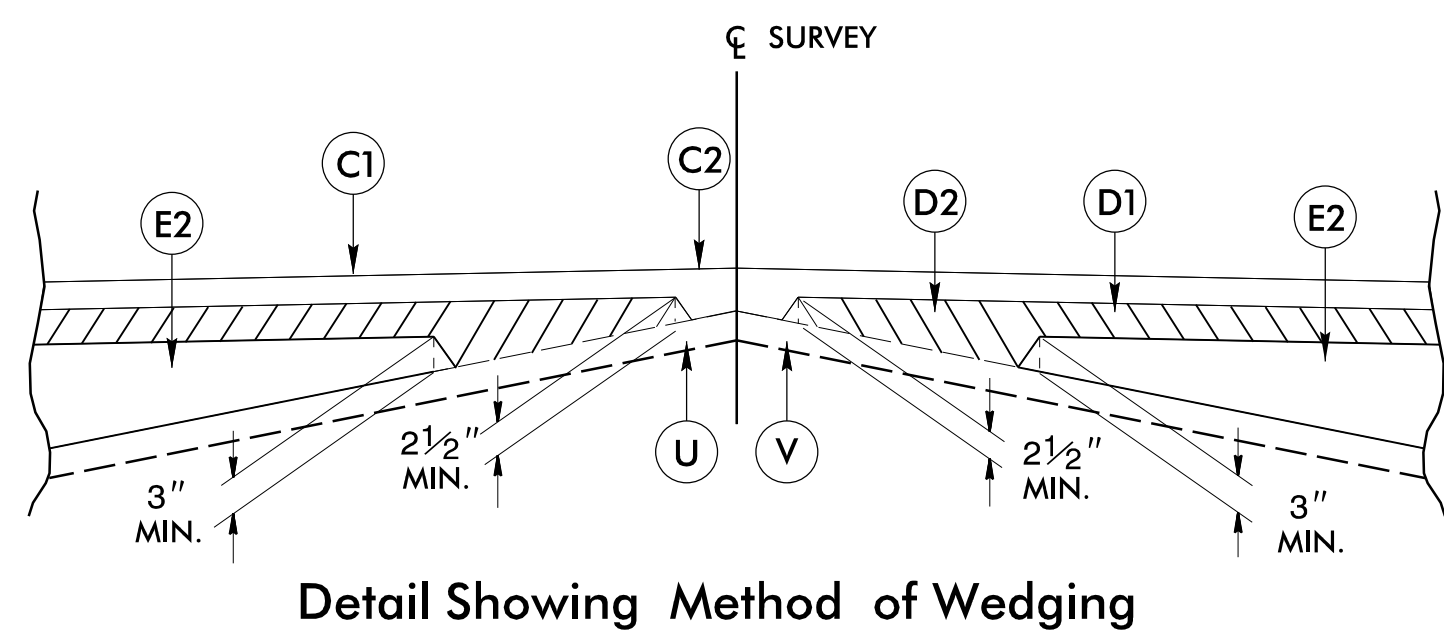
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

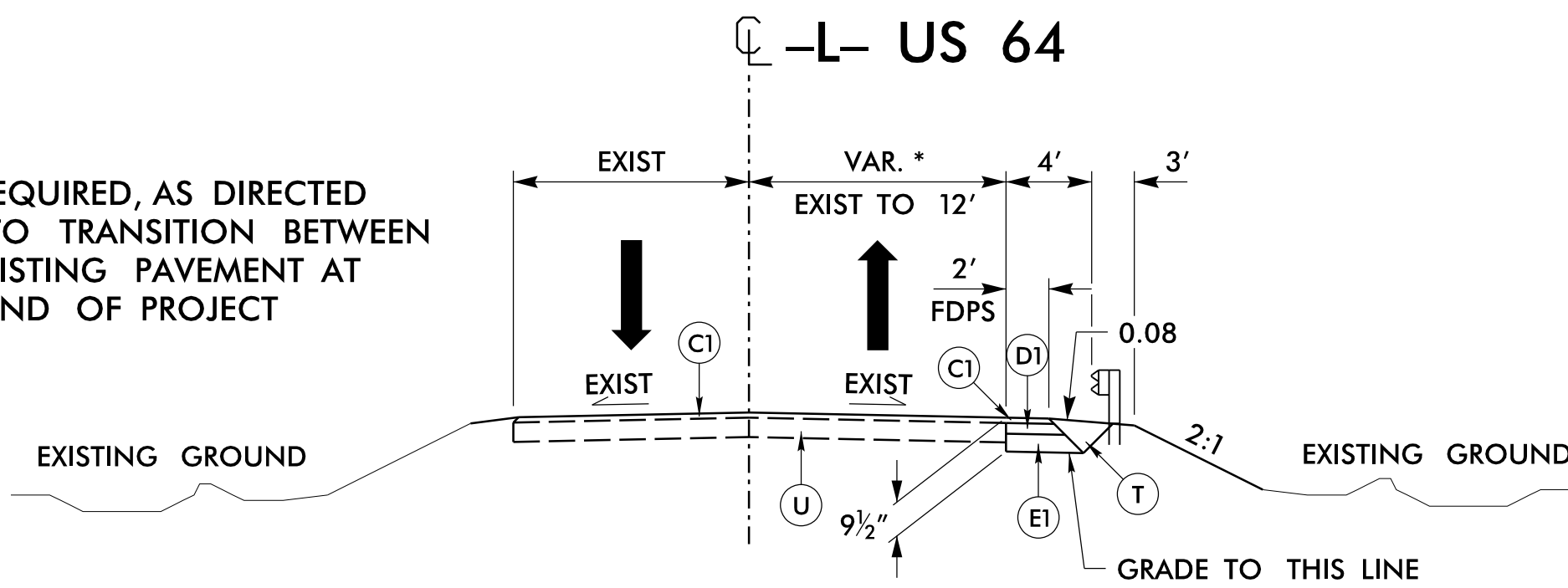
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	●
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1½" OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2½" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5½" IN DEPTH.
R	MOMENT SLAB (SEE PLANS, SHEET S-1 THRU S-4).
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	MILLING, 0" TO 1½"
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING).

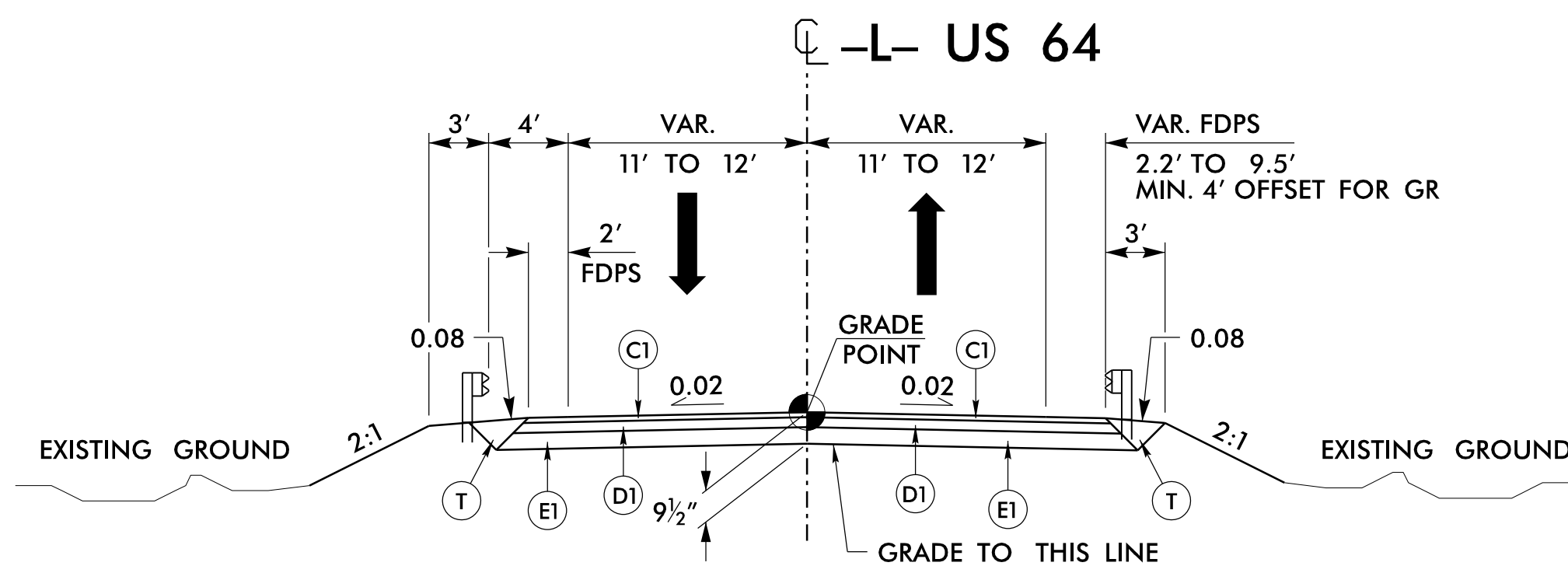
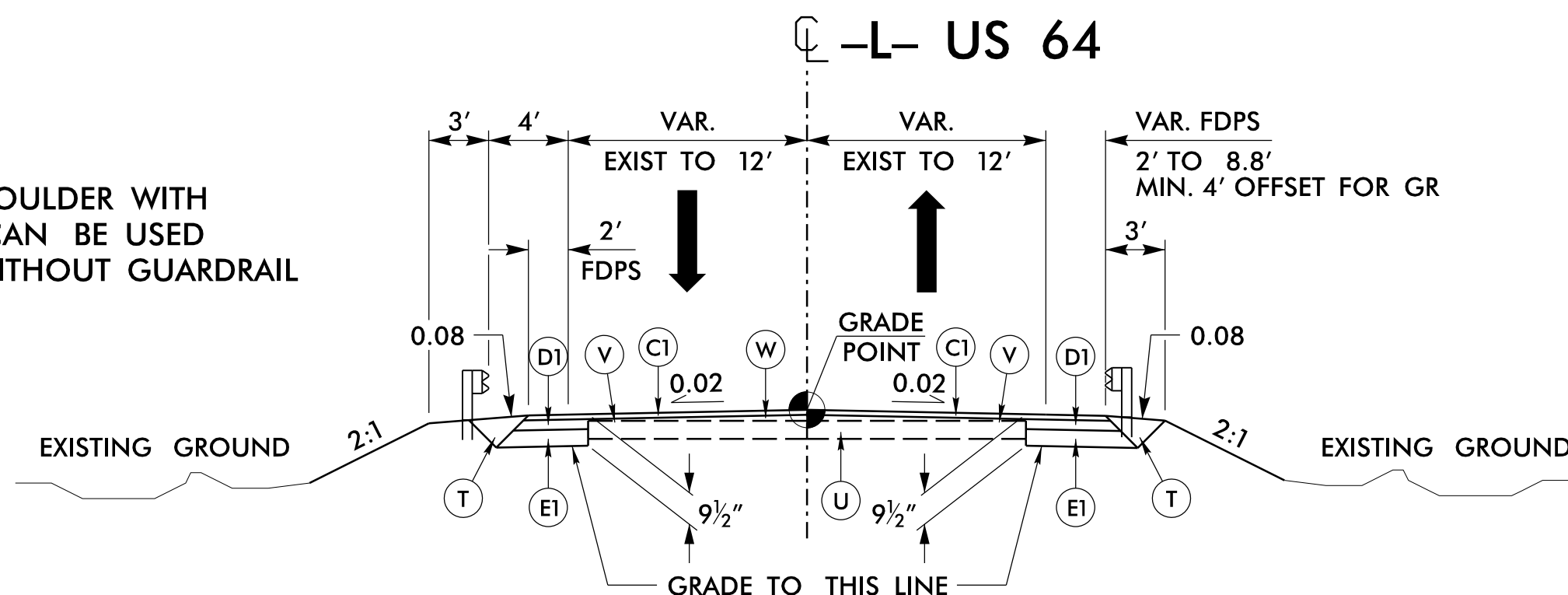
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



MILLING MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, TO TRANSITION BETWEEN PROPOSED AND EXISTING PAVEMENT AT BEGINNING AND END OF PROJECT



2' GRASS SHOULDER WITH 3:1 SLOPES CAN BE USED IN AREAS WITHOUT GUARDRAIL

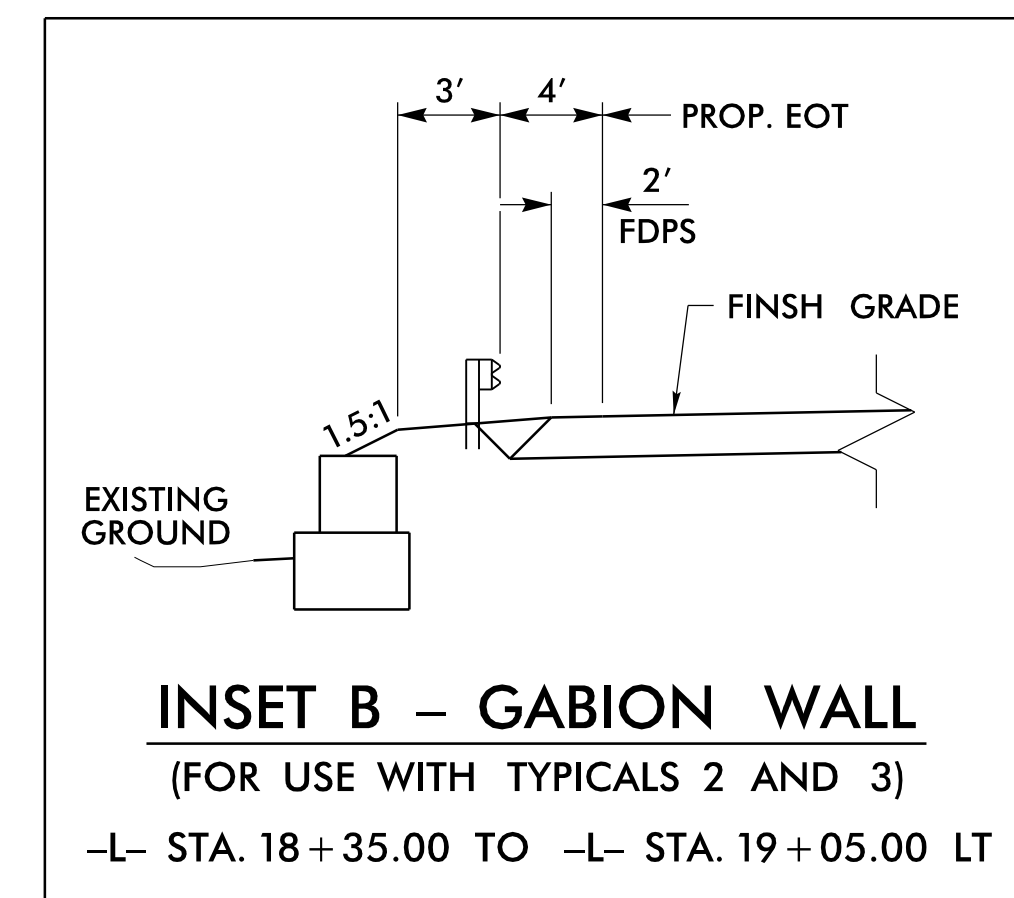
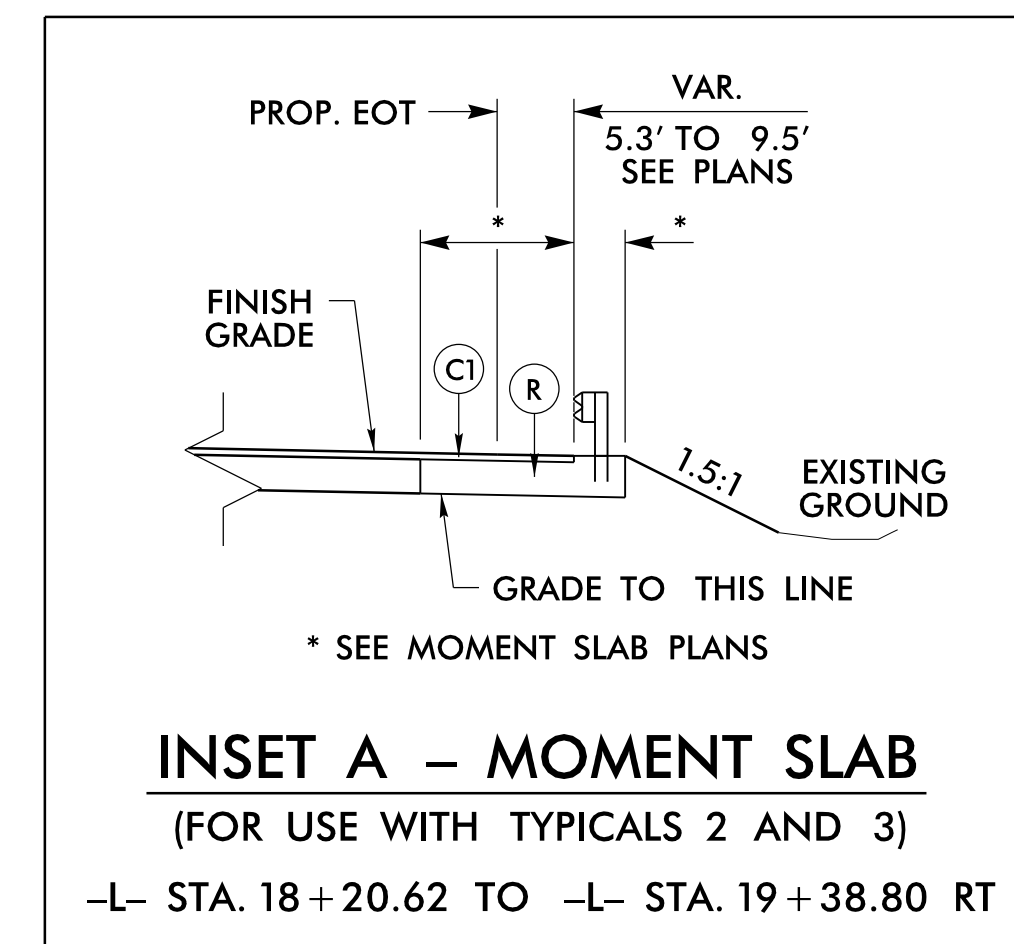


ms consultants, inc.
 920 Main Campus Drive
 Suite 430
 Raleigh, NC 27606
 NC License Number : C-3239

PROJECT REFERENCE NO. W-5714E	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER M. TRAVIS POTTS SEAL 041453 DATE 6/27/2019	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EMBANKMENT NOTES

- USE ROCK FILL DETAIL WITH 1.5:1 SLOPES IN THE FOLLOWING LOCATIONS:
- L- STA. 12+20.00 TO 12+75.00 (RT)
 - L- STA. 15+30.00 TO 15+65.00 (RT)
 - L- STA. 18+20.62 TO 19+38.80 (RT) - SLAB AREA
 - L- STA. 18+30.00 TO 19+10.00 (LT) - WALL AREA
- USE ROCK FILL DETAIL WITH 1.25:1 SLOPES IN THE FOLLOWING LOCATIONS:
- L- STA. 14+00.00 TO 14+50.00 (RT)
 - L- STA. 15+65.00 TO 18+20.62 (RT)



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

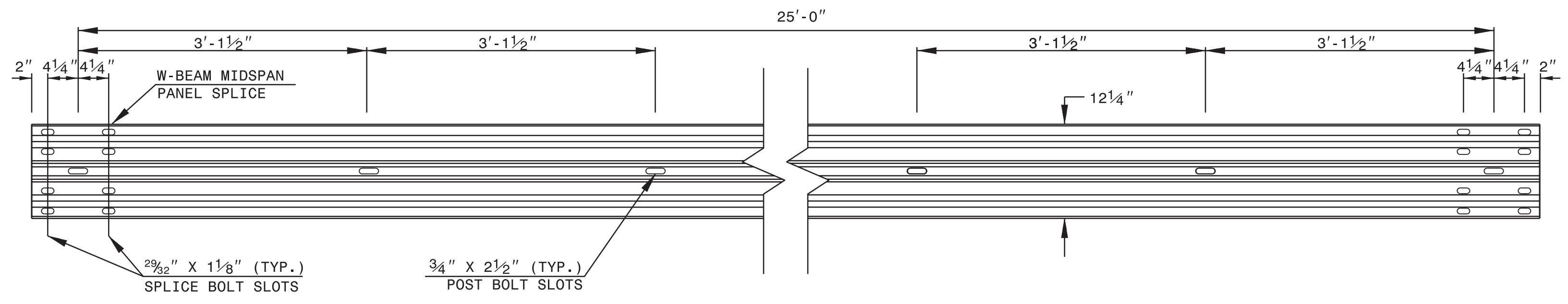
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02

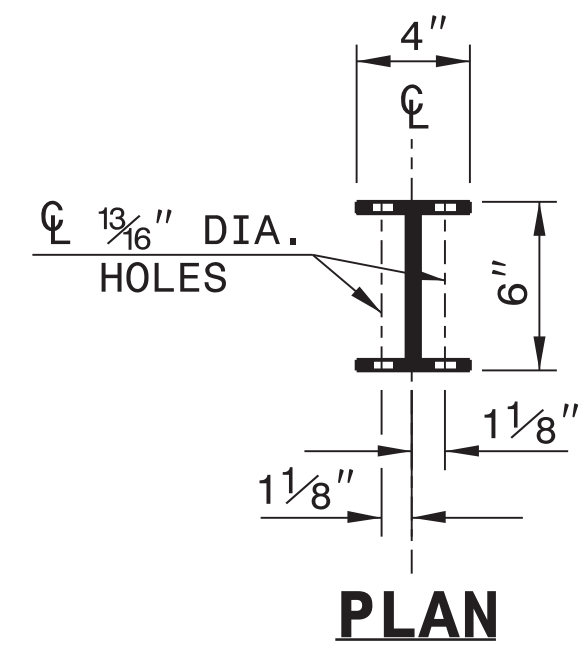
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

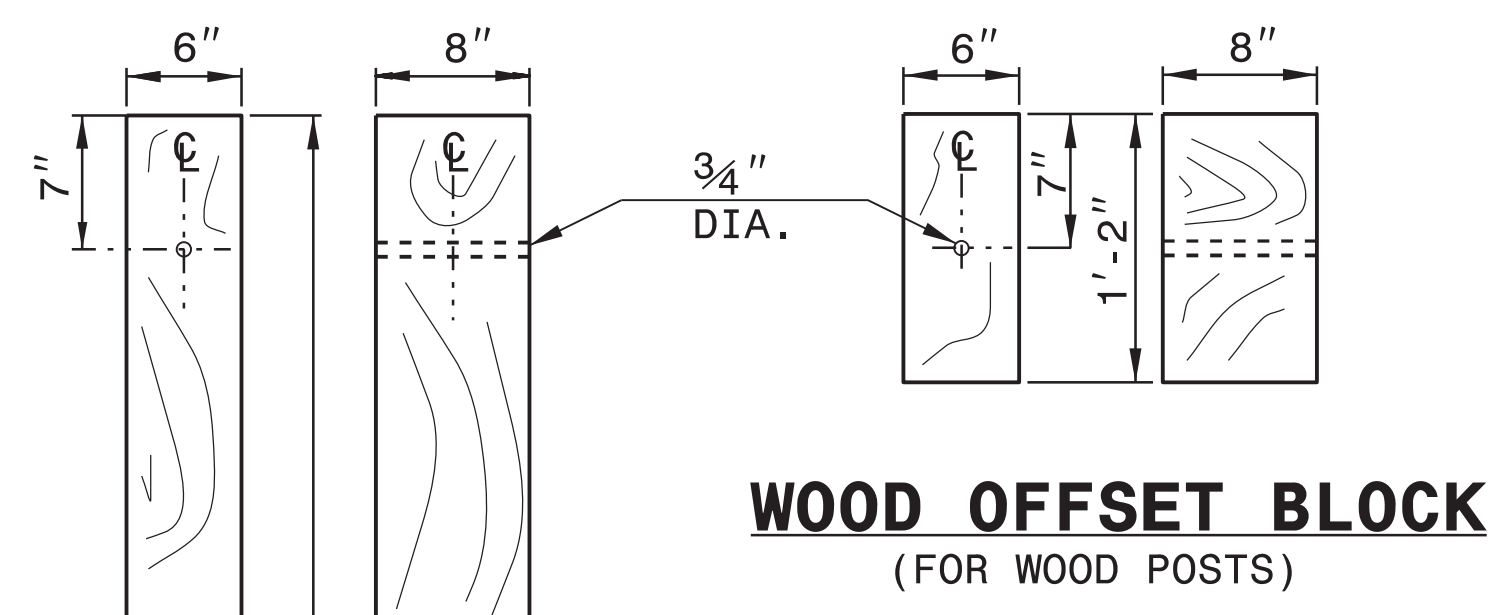
SHEET 6 OF 8
862D02



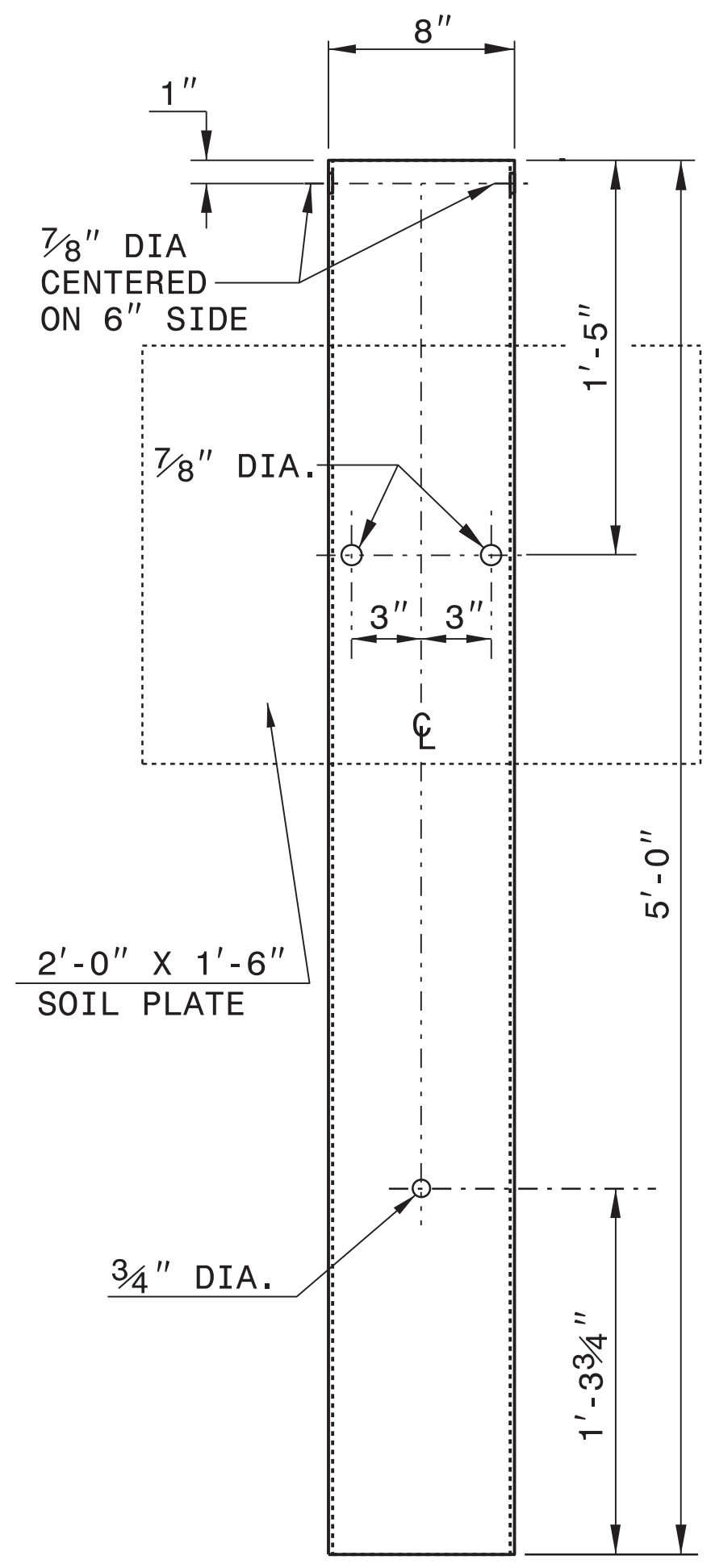
STANDARD W-BEAM GUARDRAIL



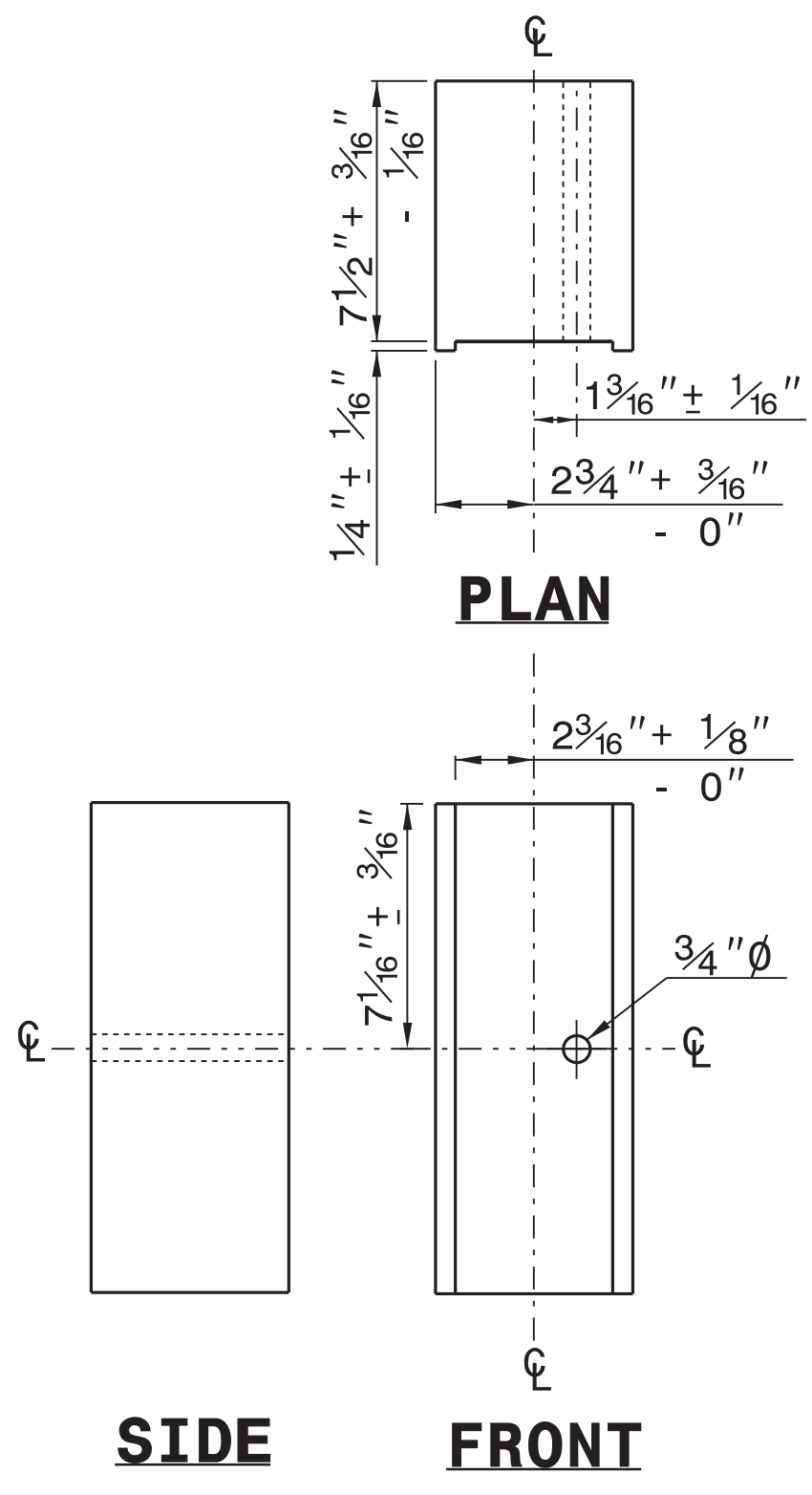
PLAN



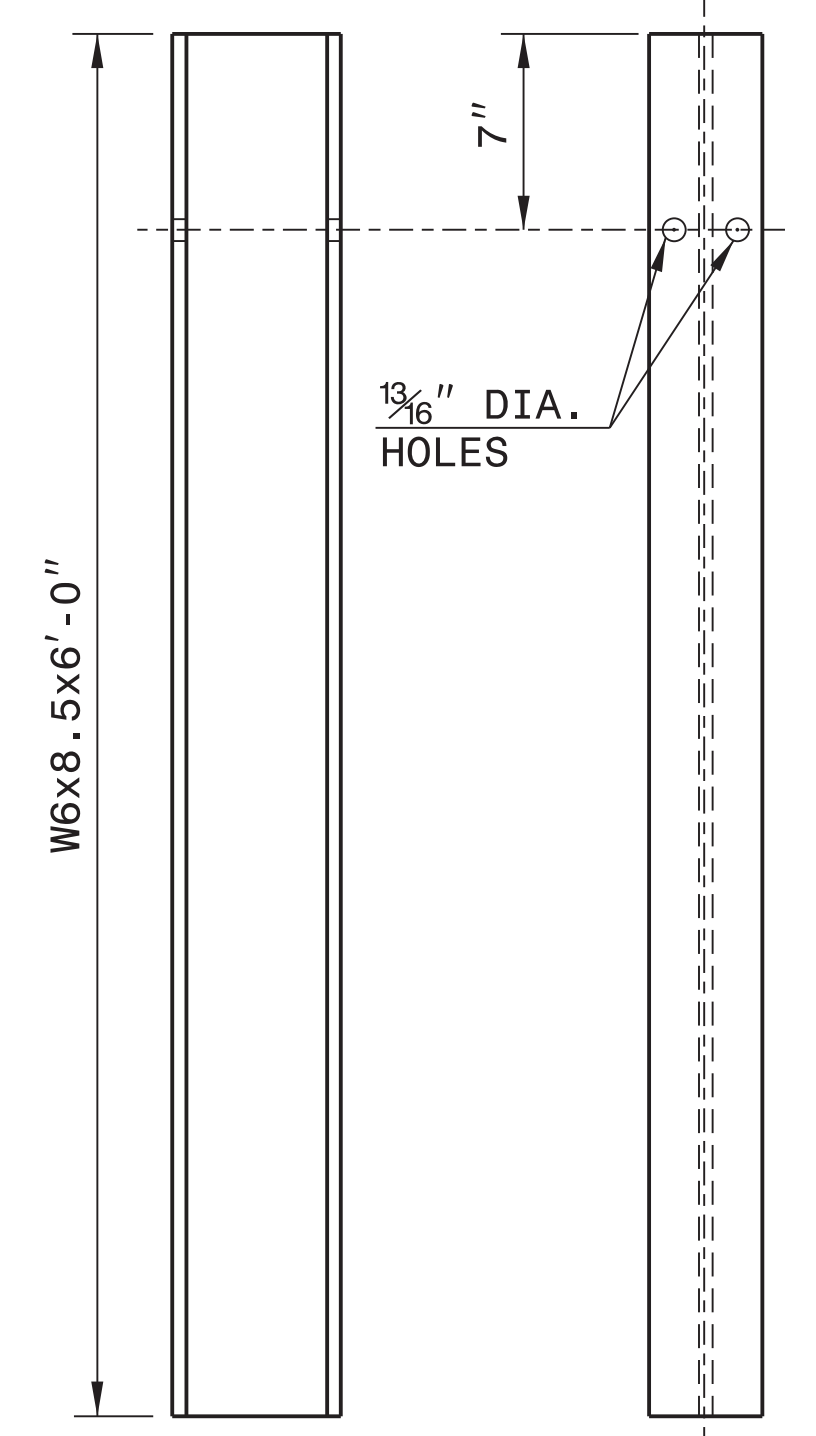
**WOOD OFFSET BLOCK
(FOR WOOD POSTS)**



**STEEL TUBE
TS 6"x8"x0.1875"**

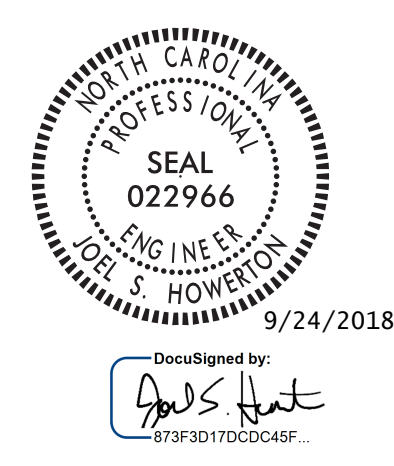


**ROUTED
OFFSET BLOCK**



"W6" STEEL POST

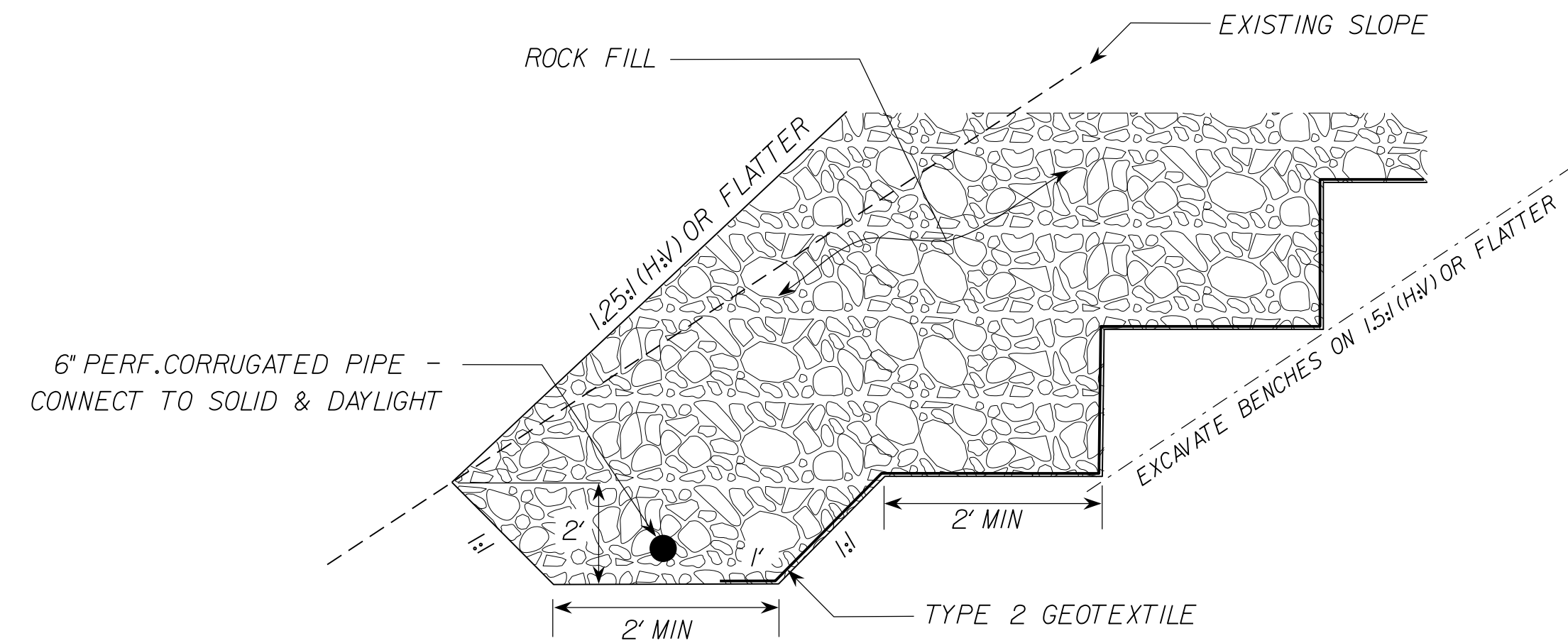
SYSTEM PARTS



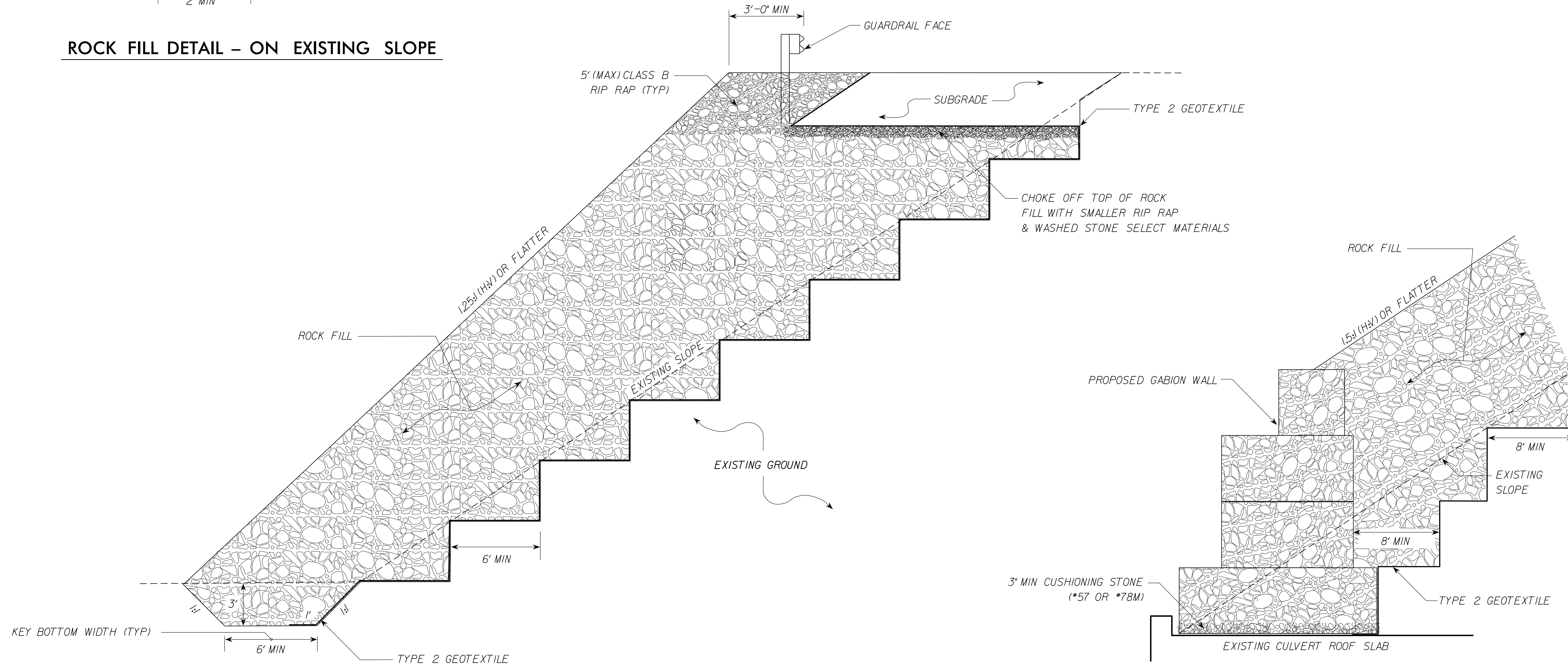
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON	DATE: 3-7-2018
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	



ROCK FILL DETAIL – ON EXISTING SLOPE



ROCK FILL DETAIL – TOE OF EXISTING SLOPE

ROCK FILL DETAIL – RETAINING WALL AREA

SEE RETAINING WALL PLANS FOR WALL DETAILS

NOTES:

- SEE ROADWAY PLANS FOR ROCK FILL LOCATIONS.
- MAXIMUM ALLOWABLE ROCK FILL HEIGHT IS 20 FT.

PREPARED BY: D. Hardister, PE	DATE: 1/22/2019
REVIEWED BY: E. Williams, PE	DATE: 1/23/2019

GEOTECHNICAL ENGINEERING UNIT

EASTERN REGIONAL OFFICE

WESTERN REGIONAL OFFICE

CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

ROCK FILL EMBANKMENT WIDENING
US 64
JACKSON COUNTY

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

12/06/07

COMPUTED BY: MTP DATE: FEBRUARY 7, 2019
 CHECKED BY: DVJ DATE: FEBRUARY 7, 2019

PROJECT REFERENCE NO. SHEET NO.
 W-5714E 3B-1

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
 VOLUME IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +15%	BORROW	WASTE
-L- 11+75.00	-L- 17+40.00	20	45	25	0
SUBTOTALS:					
-L- 17+40.00	-L- 20+50.00	100	30	0	70
PROJECT TOTALS:					
		120	75	25	70
WASTE IN LIEU OF BORROW				-25	-25
GRAND TOTALS:					
		120	75	0	45
SAY:					
		120		0	

Approximate quantities only. Unclassified excavation, fine grading, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-L-	19+00.00	20+00.00	CL	244
TOTAL:				244
SAY:				250

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS							IMPACT ATTENUATOR TYPE 350			REMOVE EXISTING GUARDRAIL	REMOVE AND RESET EXISTING GUARDRAIL	REMARKS		
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI	XI MOD	XIII	GREU TL-3	VI	VI MOD	BIC	CAT-1	AT-1	EA				G	NG
-L-	11+80	12+30	RT	50			12+15		4'	7'	50		1													50			
-L-	12+30	17+82	RT						4'	7'																	552	REMOVE AND RESET TO CURRENT STANDARDS	
-L-	16+45	17+26	LT						4'	7'																81	REMOVE AND RESET TO CURRENT STANDARDS		
-L-	17+82	20+00	RT	218					SEE PLANS	SEE PLANS																218			
-L-	18+05	19+50	LT	145					4'	SEE PLANS																98			
-L-	20+00	END EXIST GR	RT						EXISTING	EXISTING	50		1													1,100	REMOVE AND RESET TO CURRENT STANDARDS		
SUBTOTAL				413																						316	1,733		
ANCHOR DEDUCTIONS																													
GREU 350 TL-3																													
1 @ 50				-50																									
TOTAL				363																							316	1,733	
SAY				375																						320	1,750		

EXTRA GUARDRAIL POSTS = 10 EA
 MOMENT SLAB LOCATIONS: FOR POSTS AND ANCHORAGE, SEE STRUCTURE PLANS AND STD. 862.03 SHEET 7 OF 7

07-FEB-2019 16:02
 N:\D0656\AN\060816\000 W-5714E Chrysler Curve\Roadway\Proj\W5714E_rdy_sum.dgn



ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number : C-3239

Table with project reference no. W-5714E, sheet no. 4, and professional seals for M. Travis Potts and M. Travis Potts.



BEGIN TIP PROJECT W-5714E
-L- STA 11+75.00

END TIP PROJECT W-5714E
-L- STA 20+50.00

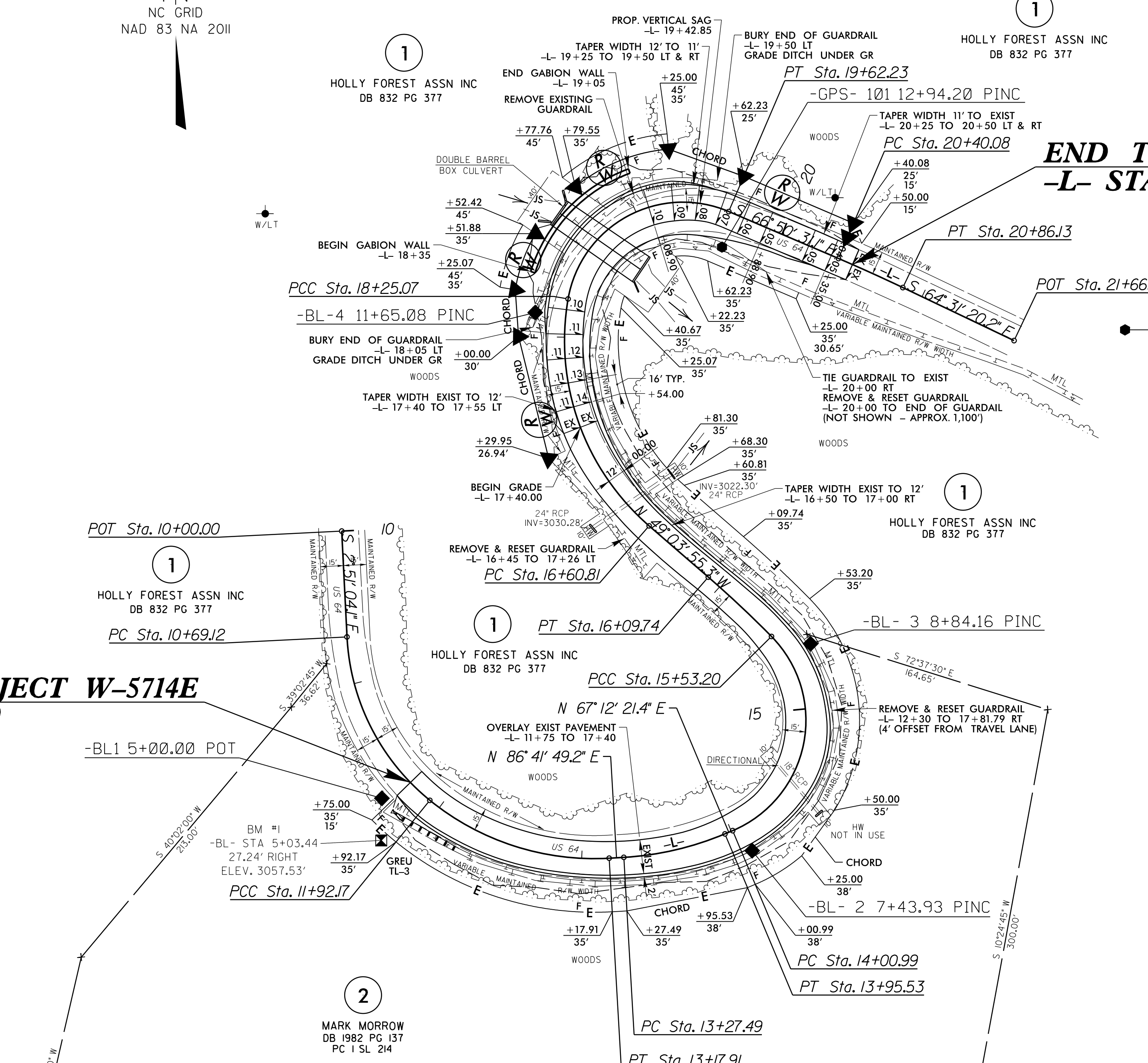
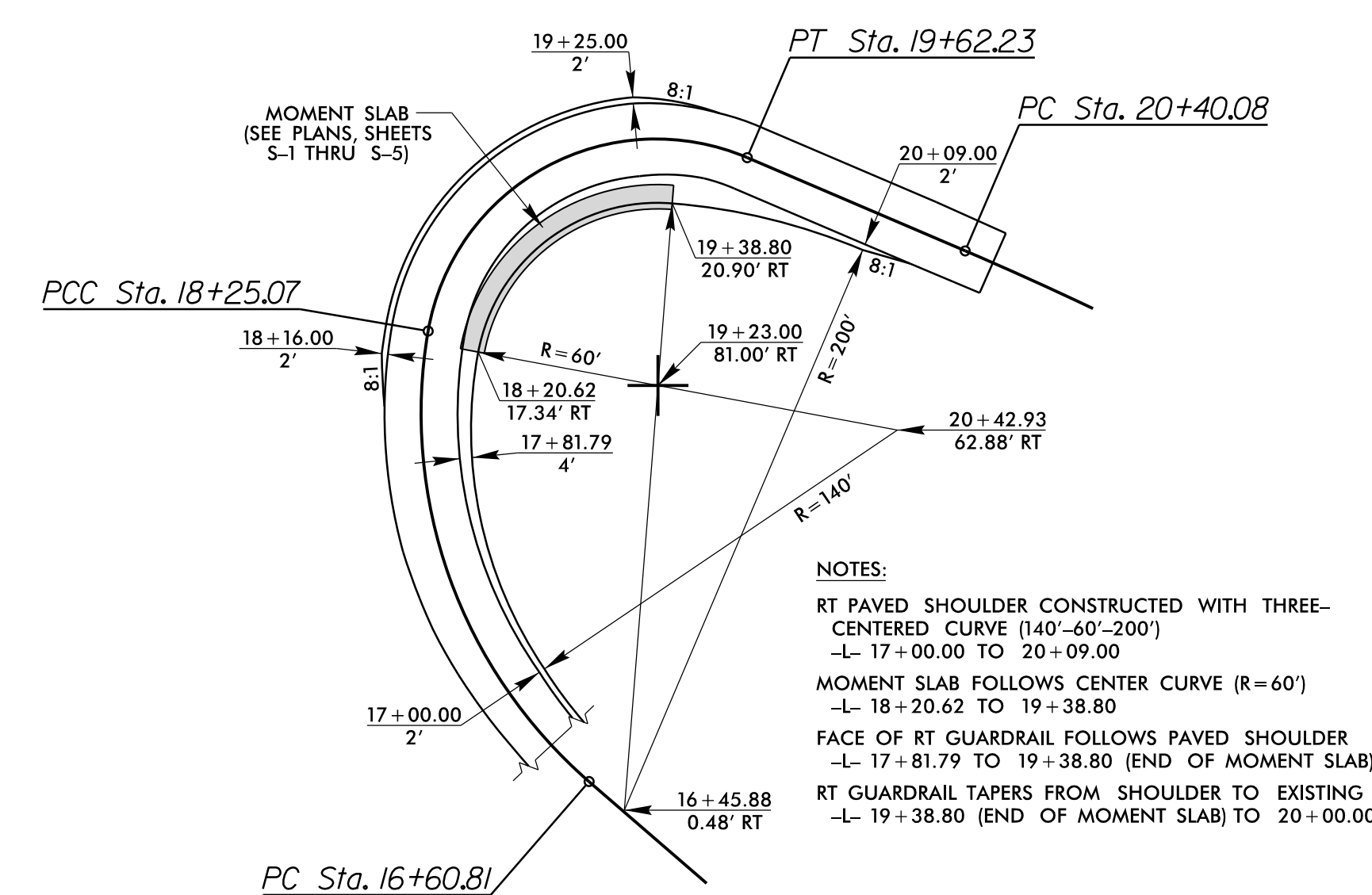


Table of curve data for stationing -L-. Columns include stationing, bearing, distance, length, tangent, radius, and other curve parameters.

DETAIL FOR PAVED SHOULDERS



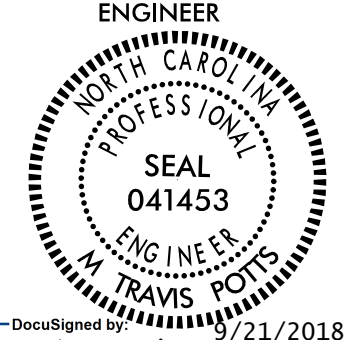

NOTES:
RT PAVED SHOULDER CONSTRUCTED WITH THREE-CENTERED CURVE (140'-60'-200')
MOMENT SLAB FOLLOWS CENTER CURVE (R=60')

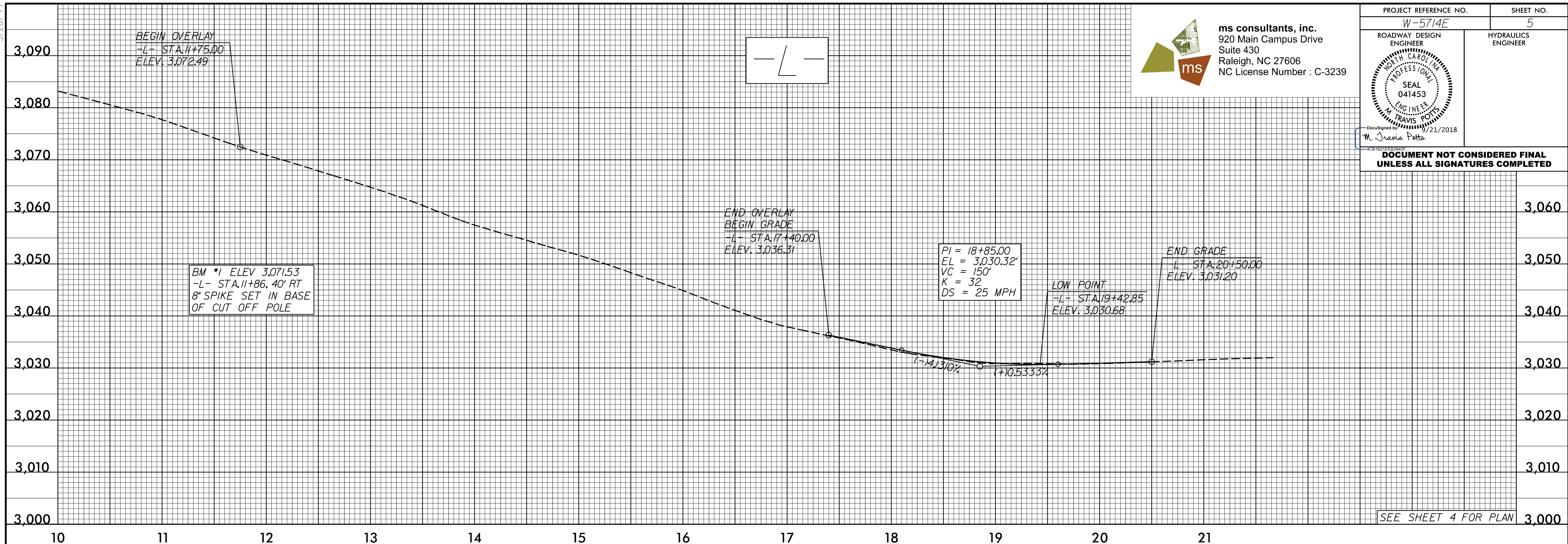
SEE SHEET 5 FOR PROFILE

5/28/18



ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number : C-3239

PROJECT REFERENCE NO. W-5714E	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
DocuSigned by:  M. Travis Potts 5/21/2018	



Z:\AUG-2018\121818-00\121818-00\5714E\Roadway\Proj\W5714E_rdy.plt.dgn

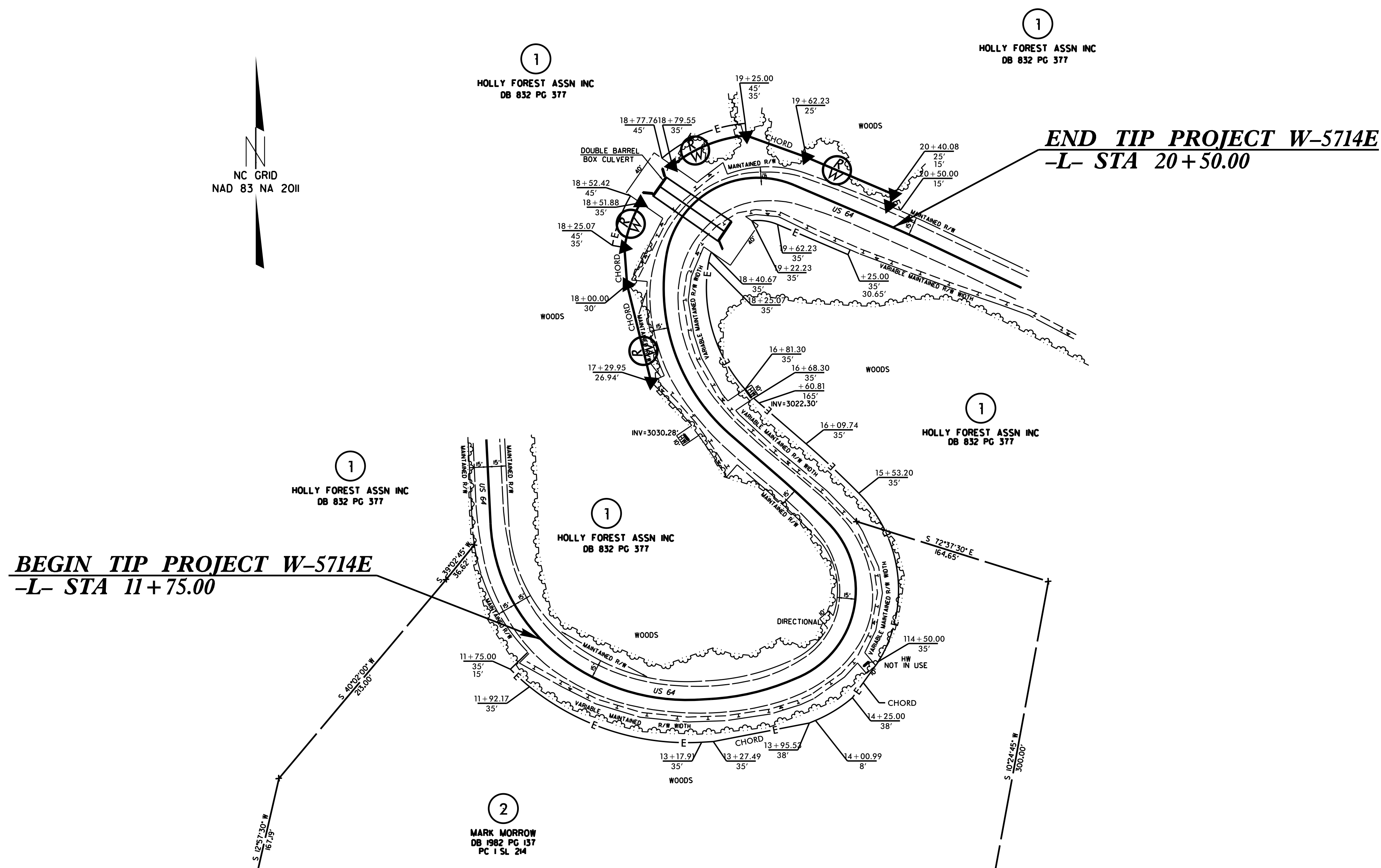
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5714E	RW01	

TIP PROJECT: W-5714E

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

JACKSON COUNTY



BEGIN TIP PROJECT W-5714E
-L- STA 11+75.00

END TIP PROJECT W-5714E
-L- STA 20+50.00

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-102" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 552,589.780(ft) EASTING: 802,665.850(ft) ELEVATION: 3,038.04(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997350788

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-102" TO -L- STATION IS S 57° 38' 59.08" W 551.782'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2017 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

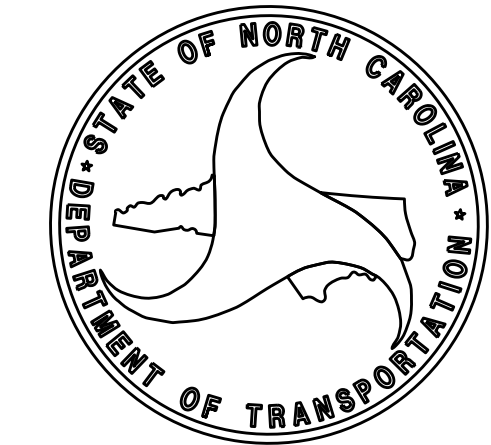
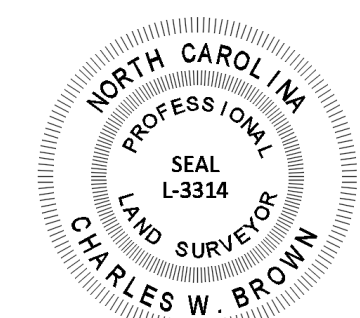
LETTING DATE:

PROFESSIONAL LAND SURVEYOR

DocuSigned by:
Charles Brown
2BADA65722938485...

Charles Brown

SIGNATURE:



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

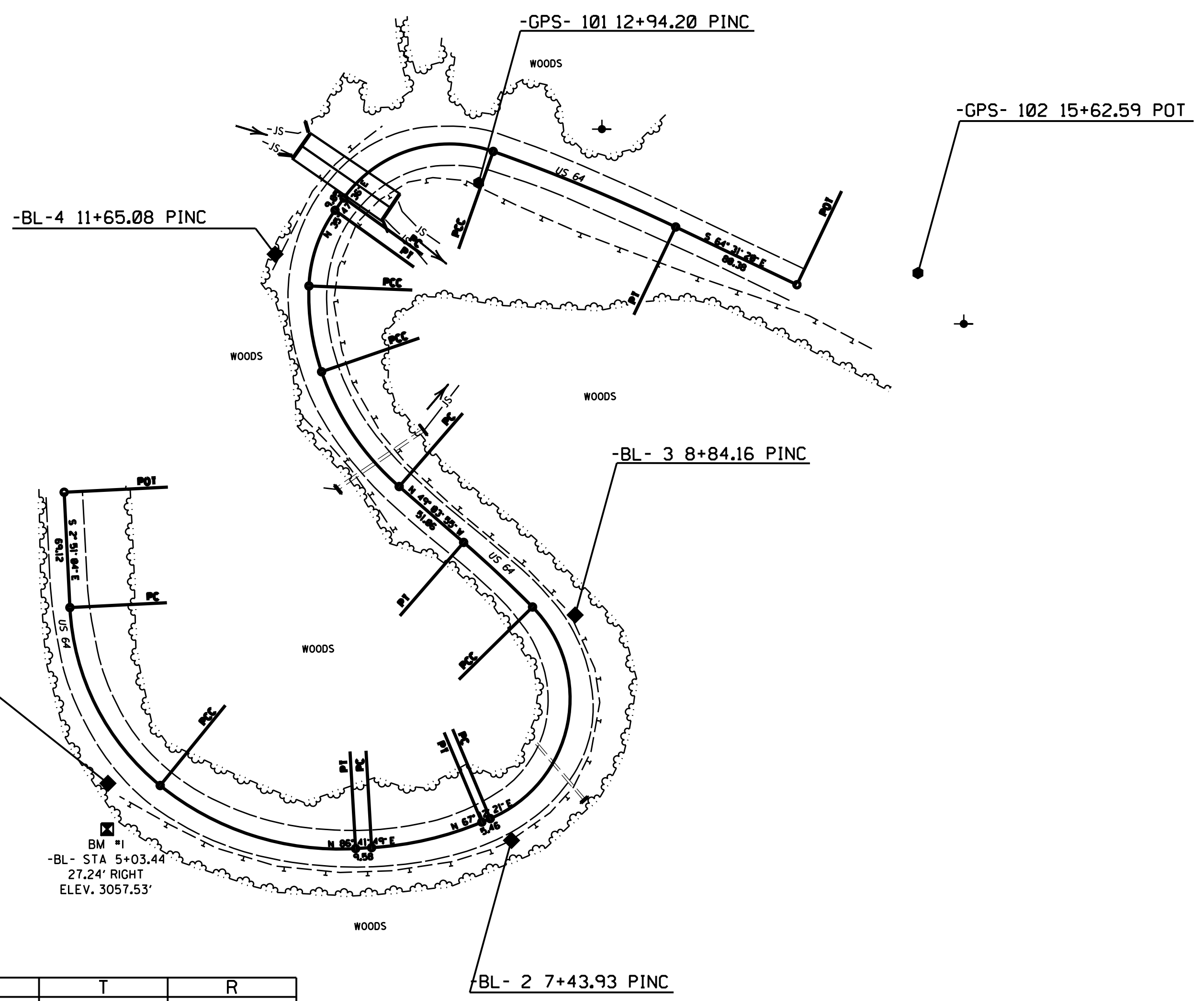
BASELINE

BL POINT	DESC.	NORTH	EAST	ELEVATION
1	BL-1	522284.2410	802181.0660	3073.02
2	BL-2	522250.0610	802422.5900	3057.64
3	BL-3	522385.0200	802460.6680	3049.68
4	BL-4	522601.0610	802281.1090	3034.06
101	G-101	522643.7980	802402.9550	3028.87
102	G-102	522589.7800	802665.8500	3038.04

.....

BMI ELEVATION = 3071.53
 N 522257 E 802181
 8" SPIKE SET IN BASE OF CUT OFF POLE

.....



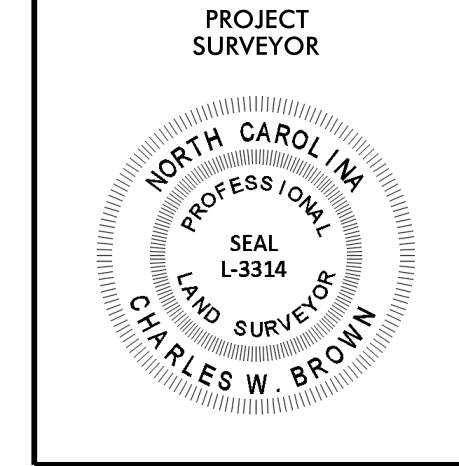
EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	522458.538	802154.906	S 02°51'04.1" E	69.12					
LINE									
PC	522389.506	802158.344	S 26°53'22.5" E	119.48	48°04'36.7" (L T)	39°04'01.5"	123.06	65.42	146.66
CURVE									
PT	522282.941	802212.383	S 50°55'40.9" E	0.00					
LINE									
PC	522282.940	802212.384	S 72°06'55.8" E	122.88	42°22'29.9" (L T)	33°42'12.2"	125.73	65.90	170.00
CURVE									
PT	522245.203	802329.329	N 86°41'49.2" E	9.58					
LINE									
PC	522245.755	802338.897	N 76°57'05.3" E	67.71	19°29'27.8" (L T)	28°38'52.4"	68.04	34.35	200.00
CURVE									
PT	522261.042	802404.858	N 67°12'21.4" E	5.46					
LINE									
PC	522263.158	802409.895	N 11°18'17.4" E	129.18	111°48'08.1" (L T)	73°27'22.1"	152.20	115.21	78.00
CURVE									
PCC	522389.831	802435.217	N 46°49'50.9" W	56.53	04°28'08.6" (L T)	07°54'11.7"	56.55	28.29	724.97
CURVE									
PT	522428.509	802393.986	N 49°03'55.3" W	51.06					
LINE									
PC	522461.966	802355.409	N 34°02'36.3" W	82.94	30°02'37.9" (RT)	35°48'35.5"	83.90	42.94	160.00
CURVE									
PCC	522530.691	802308.977	N 08°22'36.5" W	51.93	21°17'21.6" (RT)	40°45'31.5"	52.23	26.42	140.57
CURVE									
PCC	522582.070	802301.411	N 19°01'50.0" E	47.92	33°31'31.5" (RT)	68°58'10.4"	48.61	25.02	83.07
CURVE									
PT	522627.369	802317.036	N 35°47'35.8" E	9.05					
LINE									
PC	522634.713	802322.332	N 72°39'23.2" E	93.59	73°43'34.8" (RT)	73°27'22.1"	100.37	58.49	78.00
CURVE									
PCC	522662.611	802411.662	S 67°30'04.8" E	118.22	05°57'29.2" (RT)	05°02'15.7"	118.27	59.19	1137.34
CURVE									
PT	522617.374	802520.882	S 64°31'20.2" E	80.38					
LINE									
POT	522582.797	802593.446							

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/09



I, Charles W. Brown, 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(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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 existing survey control provided by others; that the depicted property data shown herein were surveyed by others; 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).

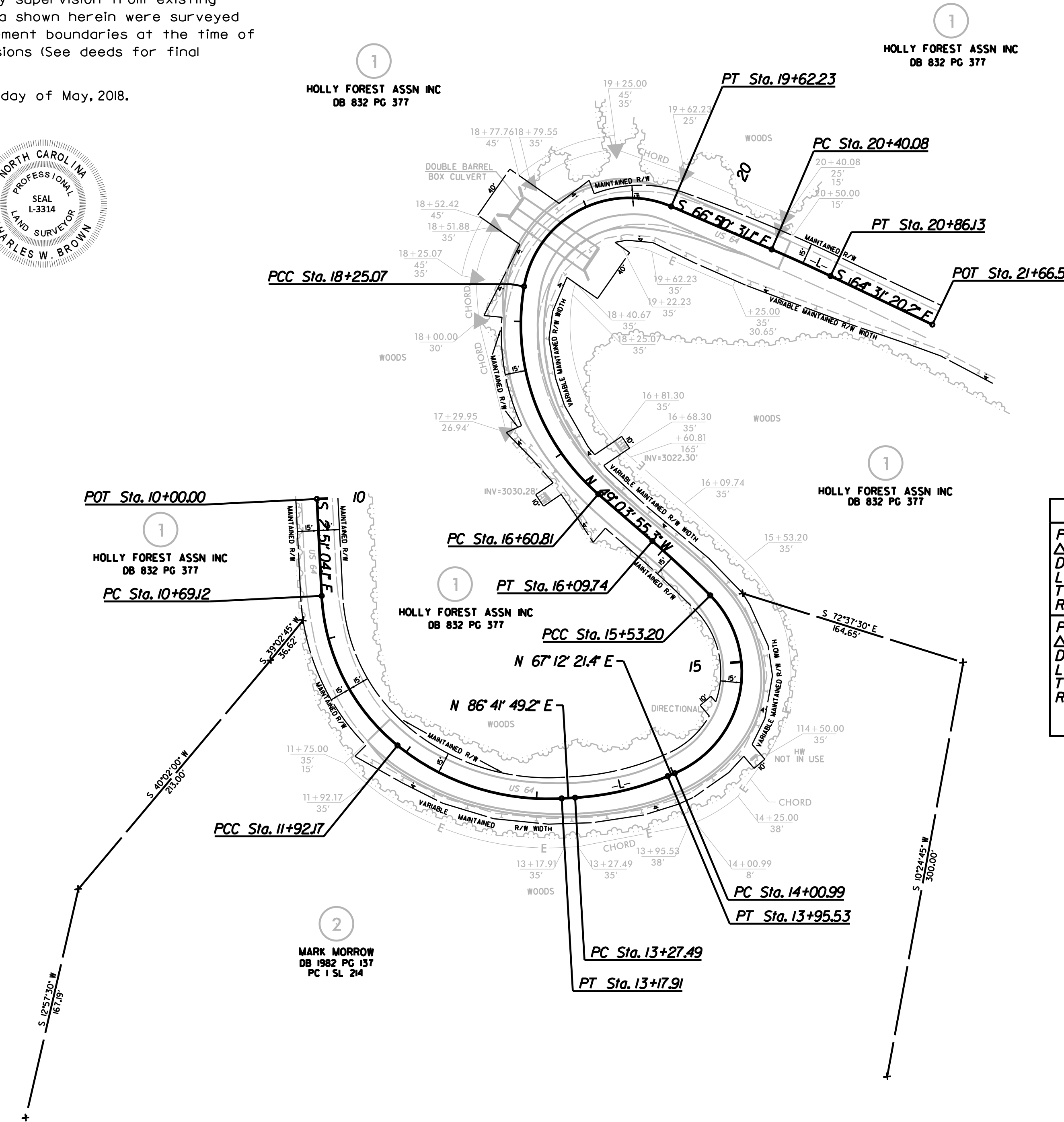
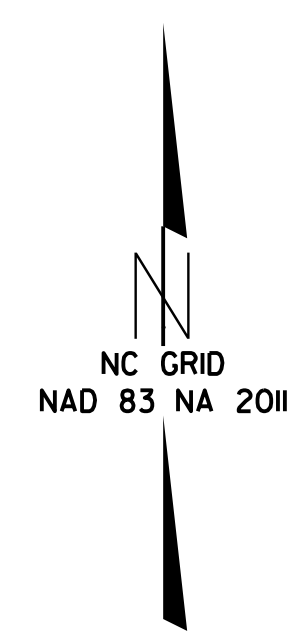
Witness my original signature, registration number and seal this 31st day of May, 2018.

Charles W. Brown
Professional Land Surveyor

L-3314
PLS #



DocuSigned by:
Charles Brown
28AD65762938465...



-L-			
PI Sta 11+34.53 $\Delta = 48^{\circ} 04' 23.2''$ (LT) $D = 39^{\circ} 04' 01.5''$ $L = 123.05'$ $T = 65.41'$ $R = 146.66'$	PI Sta 12+58.07 $\Delta = 42^{\circ} 22' 43.5''$ (LT) $D = 33^{\circ} 42' 12.2''$ $L = 125.74'$ $T = 65.90'$ $R = 170.00'$	PI Sta 13+61.85 $\Delta = 19^{\circ} 29' 27.8''$ (LT) $D = 28^{\circ} 38' 52.4''$ $L = 68.04'$ $T = 34.35'$ $R = 200.00'$	PI Sta 15+16.21 $\Delta = 111^{\circ} 48' 08.1''$ (LT) $D = 73^{\circ} 27' 22.1''$ $L = 152.20'$ $T = 115.21'$ $R = 78.00'$
PI Sta 15+81.49 $\Delta = 4^{\circ} 28' 08.6''$ (LT) $D = 7^{\circ} 54' 11.7''$ $L = 56.55'$ $T = 28.29'$ $R = 724.97'$	PI Sta 17+51.01 $\Delta = 58^{\circ} 49' 22.7''$ (RT) $D = 35^{\circ} 48' 35.5''$ $L = 164.26'$ $T = 90.20'$ $R = 160.00'$ SE = SEE PLANS RO = SEE PLANS	PI Sta 19+21.31 $\Delta = 103^{\circ} 24' 01.5''$ (RT) $D = 75^{\circ} 23' 21.1''$ $L = 137.16'$ $T = 96.23'$ $R = 76.00'$ SE = SEE PLANS RO = SEE PLANS	PI Sta 20+63.11 $\Delta = 2^{\circ} 19' 10.8''$ (RT) $D = 5^{\circ} 02' 15.7''$ $L = 46.05'$ $T = 23.03'$ $R = 1137.34'$ SE = SEE PLANS RO = SEE PLANS

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

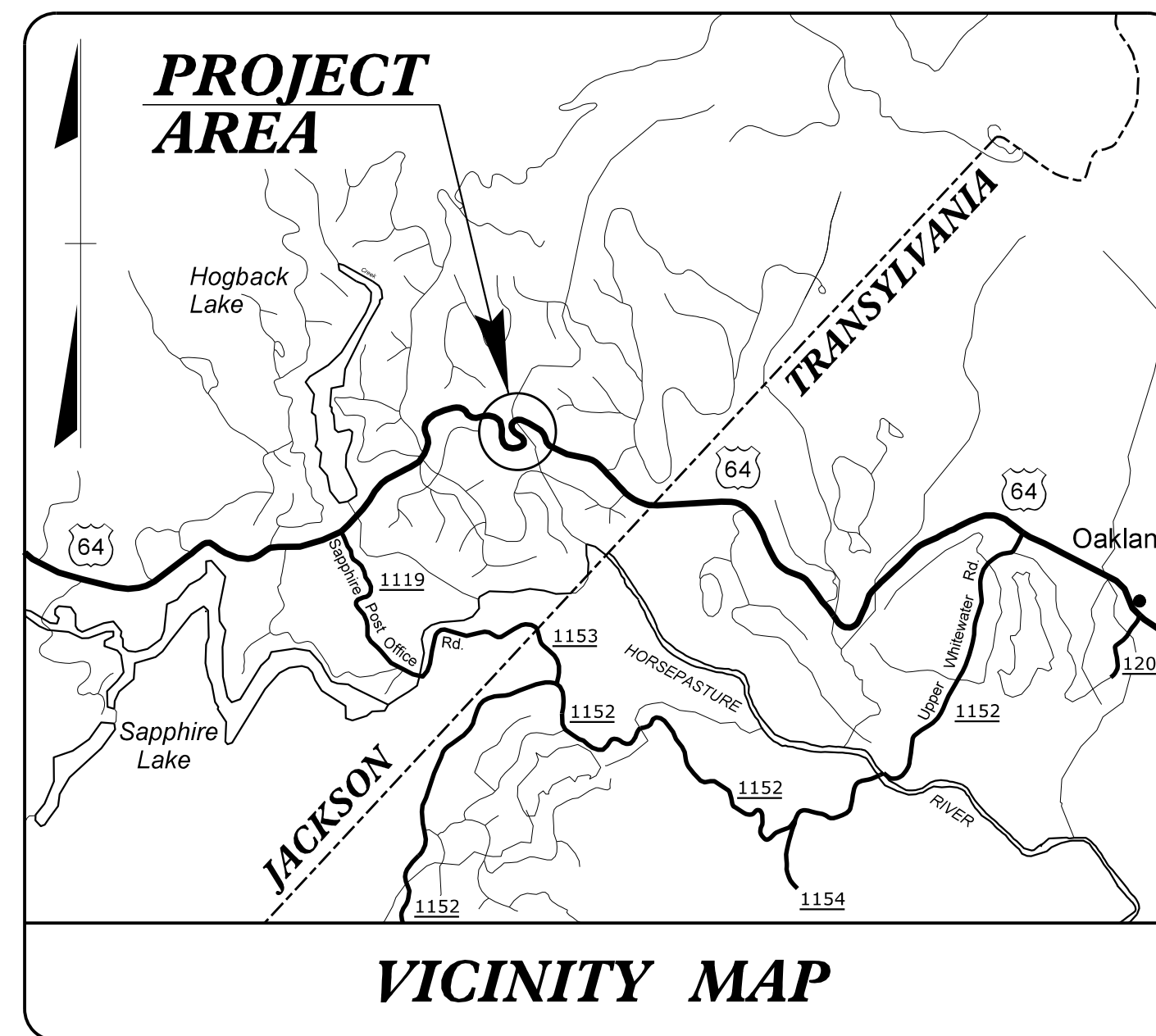
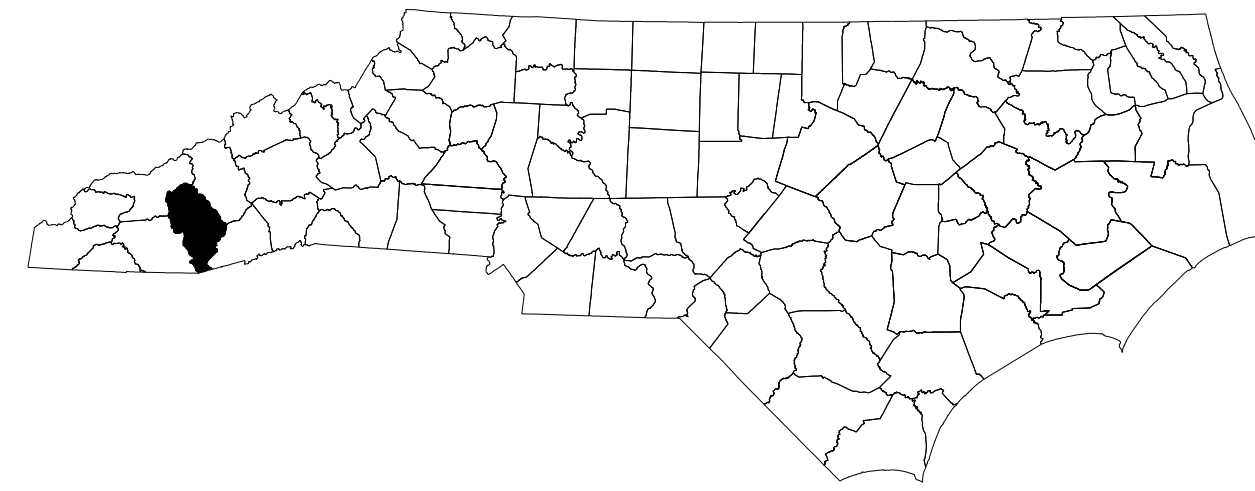
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6/2/19

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

JACKSON COUNTY



90% PLANS

INDEX OF SHEETS	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-2	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-3	GENERAL NOTES AND PHASING
TMP-4	PHASE I DETAIL
TMP-5	PHASE II DETAIL

SHEET NO.
TMP-1

W-5714E

TIP PROJECT:

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



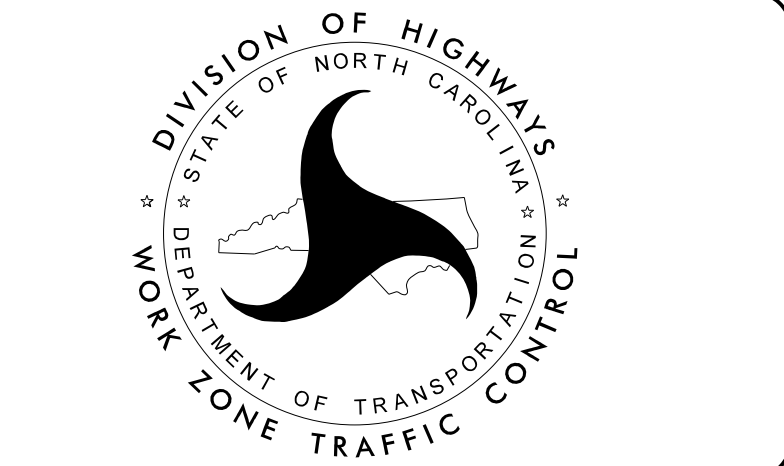
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 814-5000 FAX: (919) 771-2745

J E Hummer, PhD, PE **STATE TRAFFIC MANAGEMENT ENGINEER**

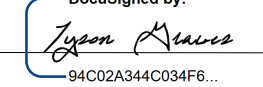
J. S. Kite, PE **TRAFFIC CONTROL PROJECT ENGINEER**

Don A. Parker, PE **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**

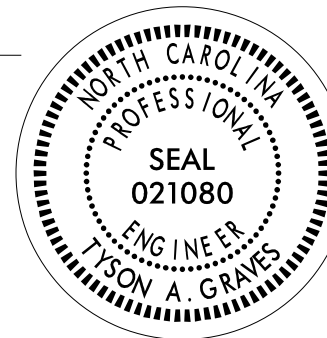
TRAFFIC CONTROL DESIGN ENGINEER



ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number : C-3239

APPROVED: 
DATE: 9-21-2018

SEAL



9/21/2018
N:\D0160_06816-00 W-5714E Chrysler Curve\Traffic\TMP\W5714E_tmp_title.dgn
User: jgraves

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN 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
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL

SIGNALS

- EXISTING
- PROPOSED
- PORTABLE

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM
- SKINNY DRUM
- TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

- PAINT (24")
- P2 WHITE STOPBAR
- PAINT (4")
- PA WHITE EDGELINE

9/21/2018 N:\D0160\06816-00 W-5714E Chrysler Curve\Traffic\TMP\W5714E_tmp_title_2.dgn User:trgraves

APPROVED: DATE: 9-21-2018	SEAL 		ROADWAY STANDARD DRAWINGS & LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PROJ. REFERENCE NO.	SHEET NO.
W-5714E	TMP-3

GENERAL NOTES / LOCAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- D) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

TRAFFIC PATTERN ALTERATIONS

- E) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- F) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- G) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- H) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- I) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

PAVEMENT MARKINGS AND MARKERS

- J) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
-----------	---------	--------

- K) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- L) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- M) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

PHASING

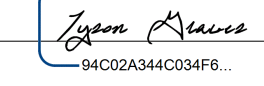
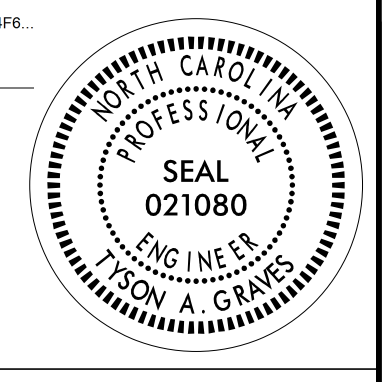
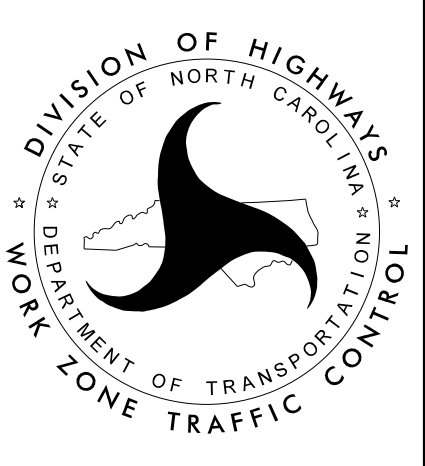
PHASE I

- STEP 1 - INSTALL WORK ZONE ADVANCE WARNING SIGNS ALONG EXISTING US 64 (-L-) (SEE ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 3 OF 3).
- STEP 2 - USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 2 OF 15) AND FLAGGERS, INSTALL THE TEMPORARY PAVEMENT MARKINGS (STOP BARS) FOR THE PORTABLE SIGNALS (SEE SHEET TMP-4) AND INSTALL THE PORTABLE SIGNALS AND SIGNS.
- STEP 3 - ACTIVATE PORTABLE SIGNALS, PLACE TRAFFIC ON THE EASTBOUND SIDE, AND CONSTRUCT WESTBOUND SIDE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT.

PHASE II

- STEP 1 - WHILE CONTINUING TO USE THE PORTABLE SIGNALS, SWITCH TRAFFIC TO THE WESTBOUND SIDE.
- STEP 2 - CONSTRUCT THE EASTBOUND SIDE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT.
- STEP 3 - USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 2 OF 15) AND FLAGGERS, WEDGE AND PAVE ALL ROADWAYS UP THRU THE FINAL LAYER OF SURFACE COURSE AND INSTALL FINAL PAVEMENT MARKINGS AND MARKERS (SEE FINAL PAVEMENT MARKING PLANS).

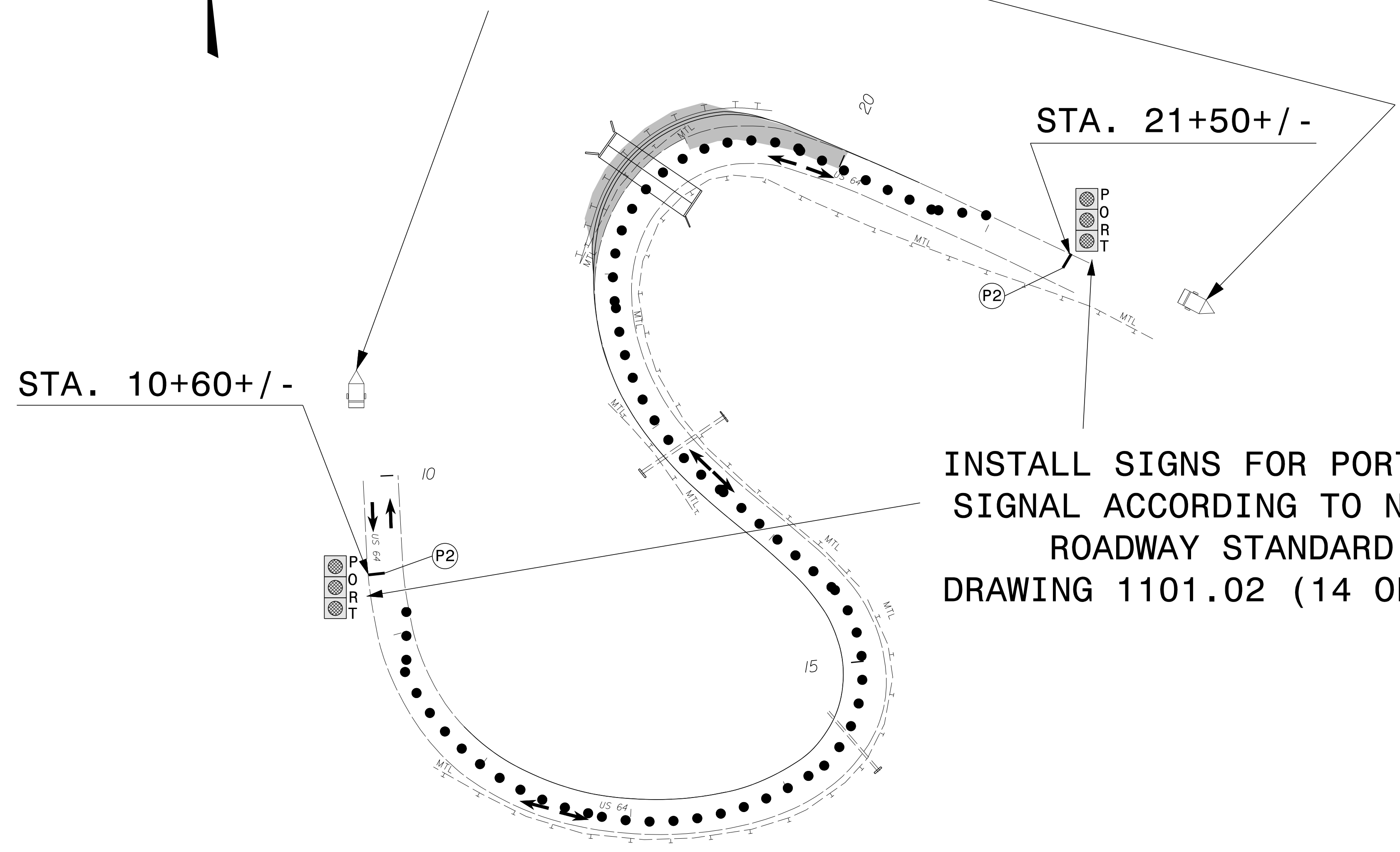
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APPROVED:  DATE: 9-21-2018 SEAL			GENERAL NOTES AND PHASING
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



INSTALL CHANGEABLE MESSAGE SIGNS
1/2 MILE IN ADVANCE
OF PORTABLE SIGNALS

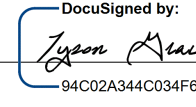
MESSAGE NO. 1	MESSAGE NO. 2
SIGNAL AHEAD	PREPARE TO STOP
CHANGEABLE MESSAGE SIGN	



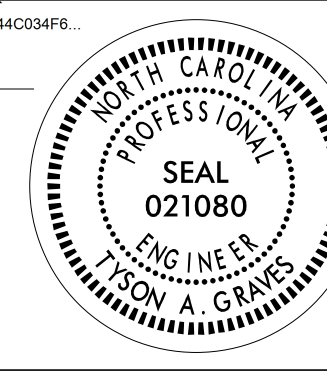
INSTALL SIGNS FOR PORTABLE SIGNAL ACCORDING TO NCDOT ROADWAY STANDARD DRAWING 1101.02 (14 OF 14)

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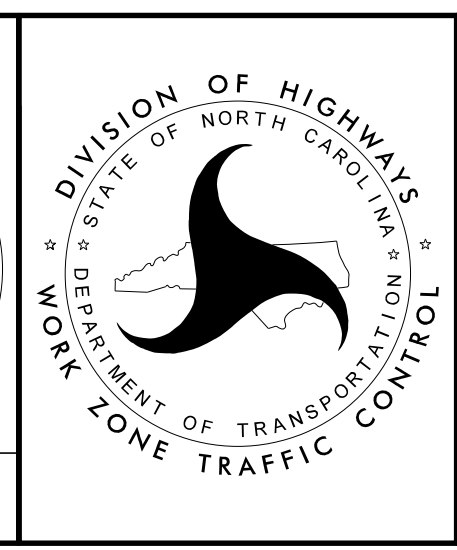
ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number : C-3239

APPROVED: 
DATE: 9-21-2018

SEAL



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

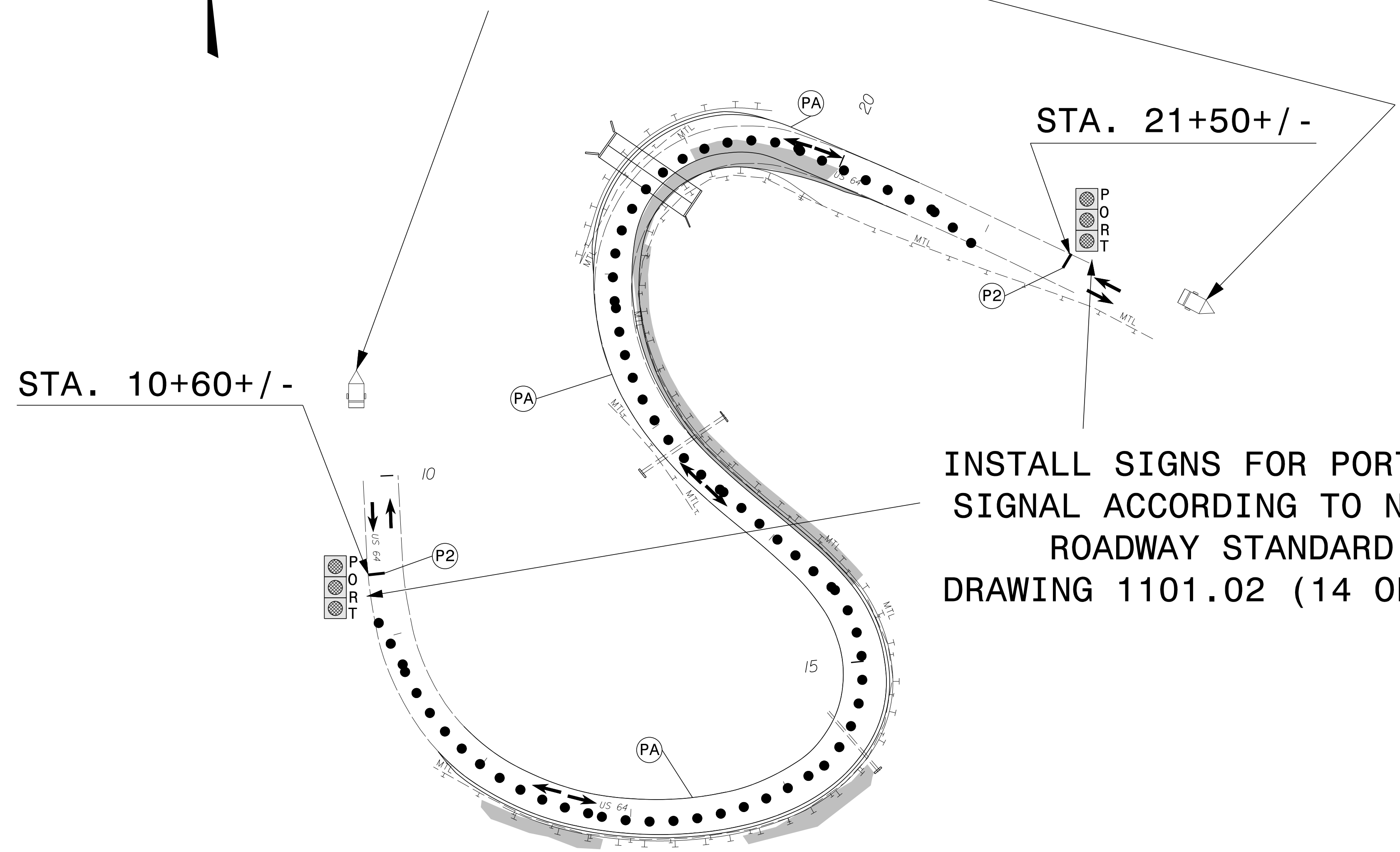


PHASE I



INSTALL CHANGEABLE MESSAGE SIGNS
1/2 MILE IN ADVANCE
OF PORTABLE SIGNALS

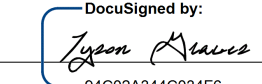
MESSAGE NO. 1	MESSAGE NO. 2
SIGNAL AHEAD	PREPARE TO STOP
CHANGEABLE MESSAGE SIGN	




INSTALL SIGNS FOR PORTABLE SIGNAL ACCORDING TO NCDOT ROADWAY STANDARD DRAWING 1101.02 (14 OF 14)

9/21/2018
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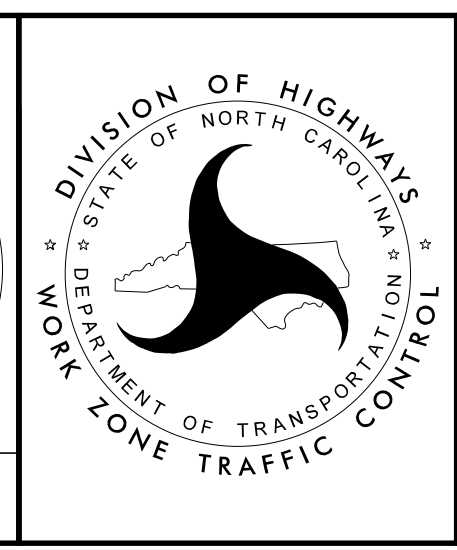
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NC License Number : C-3239

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DATE: 9-21-2018

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PHASE II

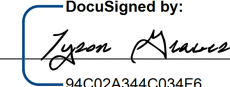
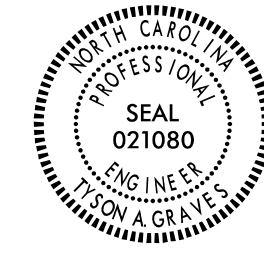
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CONTRACT:

T.I.P.: W-5714E

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
JACKSON COUNTY**

TIP NO. W-5714E	SHEET NO. PMP - 1
APPROVED:  <small>DocuSigned by: Tyson A. Graves #4C02A344C034F8</small>	
DATE: 9-21-2018	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	SNOWPLOWABLE
 - B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 - C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 - D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
 - E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
 - F) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	PAVEMENT MARKING DETAIL

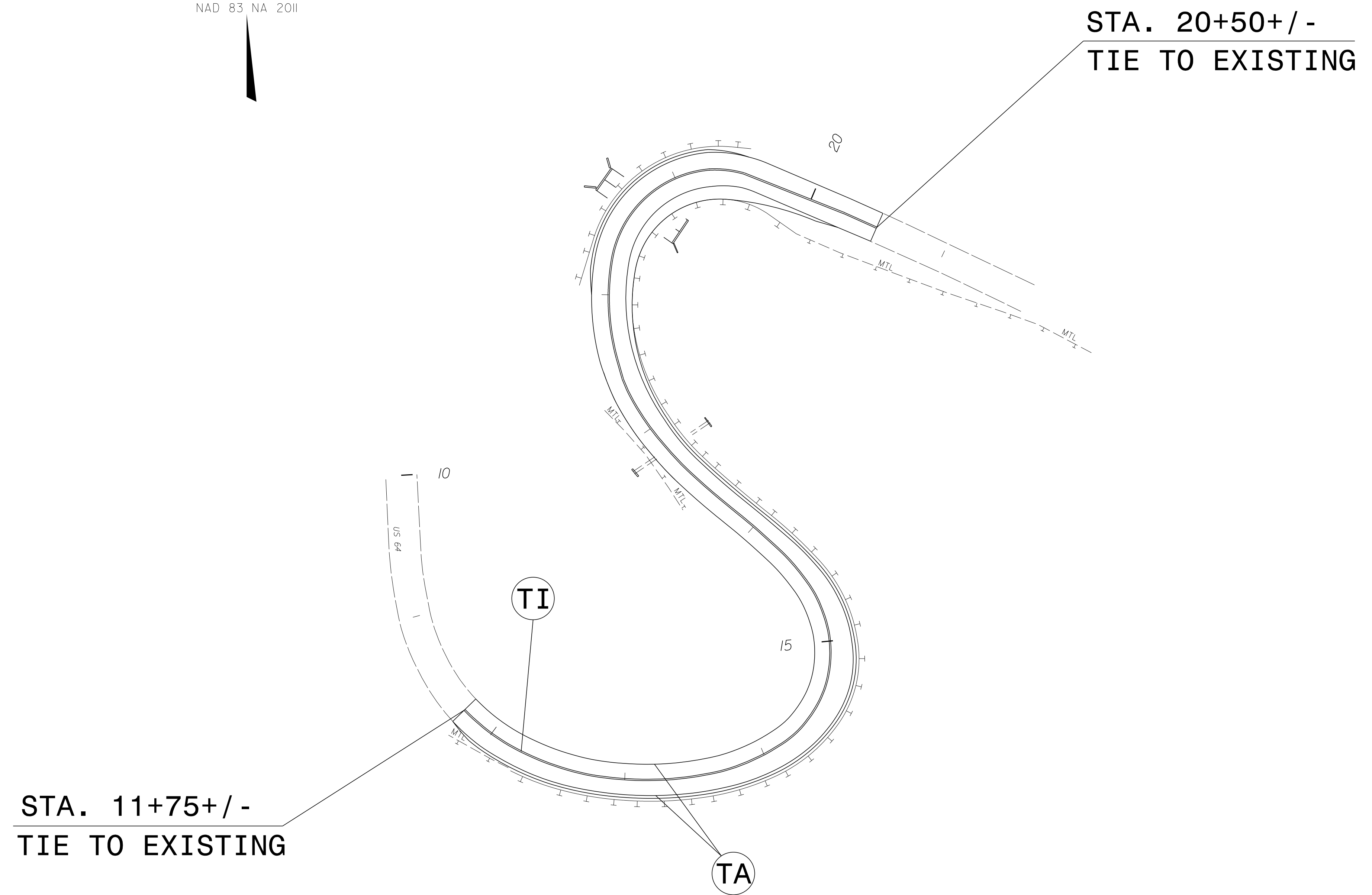
PAVEMENT MARKING SCHEDULE

	THERMOPLASTIC(4", 50 MILS)
TI	YELLOW DOUBLE CENTER
	THERMOPLASTIC(4", 50 MILS)
TA	WHITE EDGELINE
	MARKERS
	SNOWPLOWABLE RAISED PAVEMENT MARKERS
ME	YELLOW & YELLOW

PLAN PREPARED BY: ms consultants, inc.

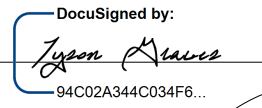
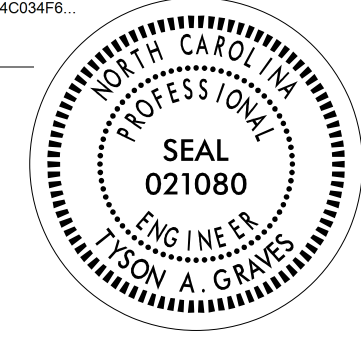
Tyson A. Graves, PE PROJECT ENGINEER
PROJECT DESIGN ENGINEER

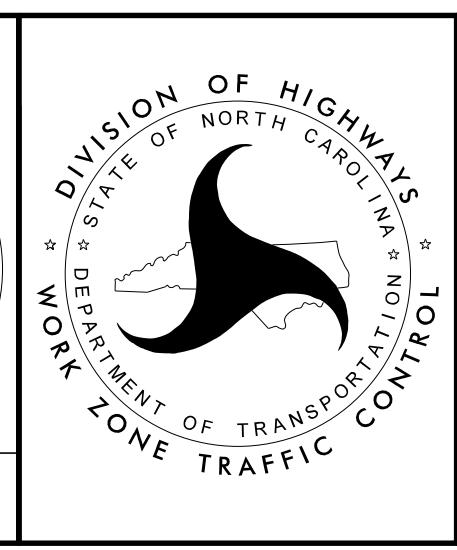




9/21/2018
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 User:trgraves


ms consultants, inc.
 920 Main Campus Drive
 Suite 430
 Raleigh, NC 27606
 NC License Number : C-3239

APPROVED: 
 DATE: 9-21-2018
 SEAL




FINAL PAVEMENT MARKINGS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: W-5714E

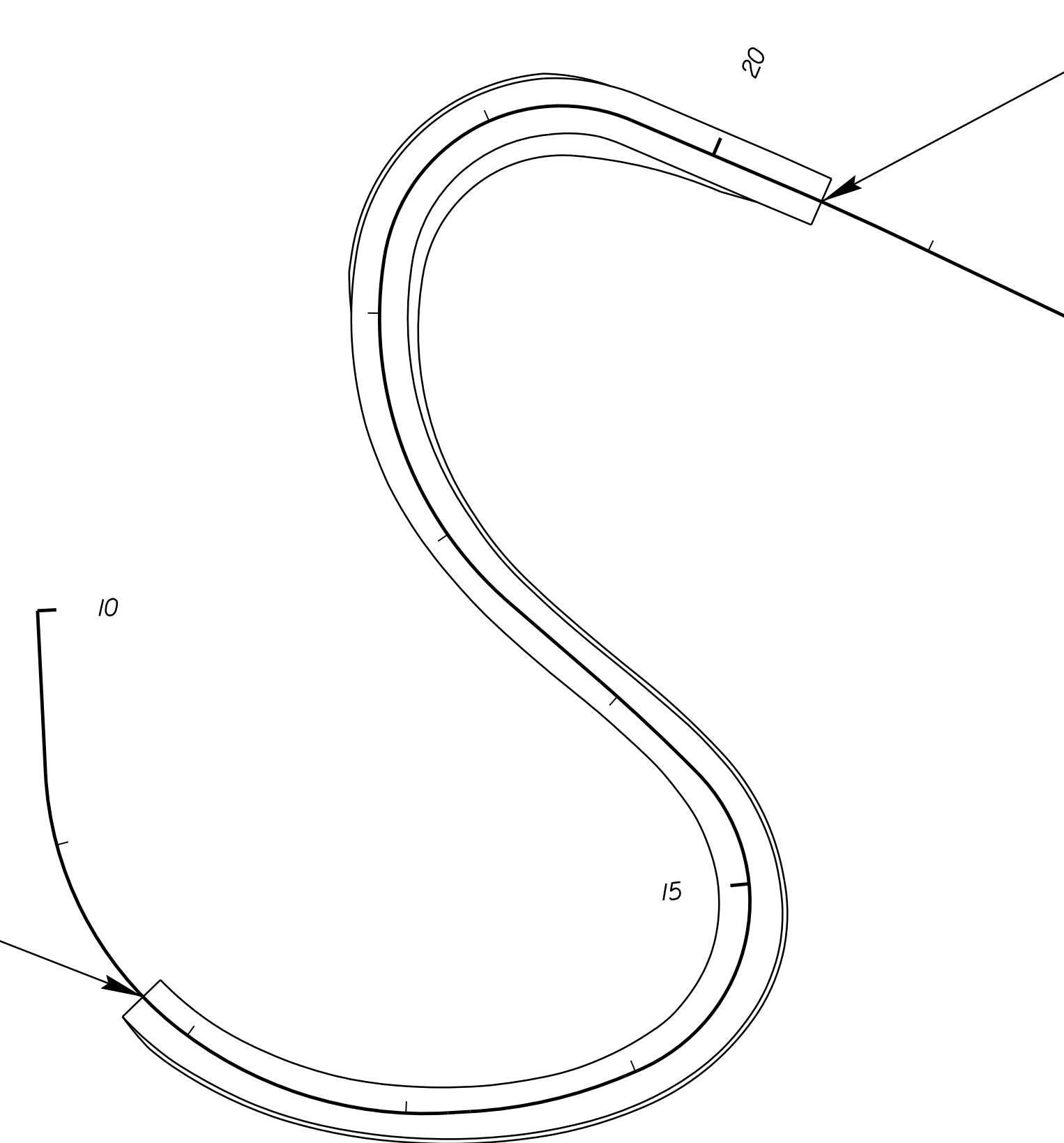
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
JACKSON COUNTY US-64
HIGHWAY EROSION CONTROL PLAN

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5714E	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

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	X X X X X X
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	RS
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	RS
1633.02	Temporary Rock Silt Check Type-B	RS
	Wattle / Coir Fiber Wattle	W
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W
1634.01	Temporary Rock Sediment Dam Type-A	RD
1634.02	Temporary Rock Sediment Dam Type-B	RD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPI
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPI
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SK
	Tiered Skimmer Basin	TSK
	Infiltration Basin	IB

BEGIN TIP PROJECT W-5714E
-L- STA 11+75.00



END TIP PROJECT W-5714E
-L- STA 20+50.00

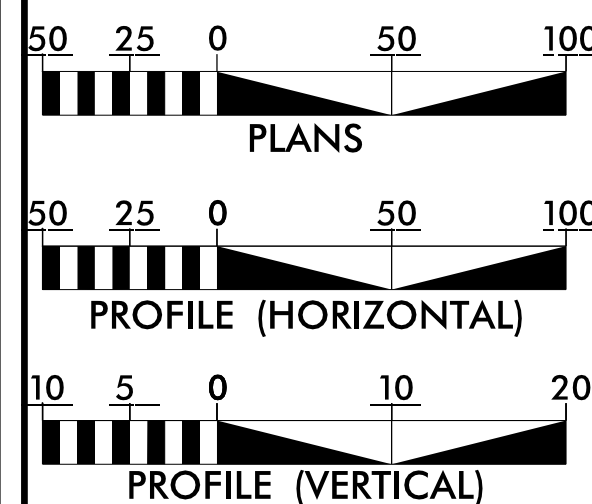


THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
Refer To E. C. Special Provisions for Special Considerations.

GRAPHIC SCALE



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

Prepared in the Office of:

DEWBERRY

2610 WYCLIFF ROAD, SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

Designed by:

BRADLEY EVERHART

4118

NAME

LEVEL III CERTIFICATION NO.

Reviewed in the Office of:

ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

Reviewed by:

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1633.03 Temporary Rock Silt Check Type C
1630.02 Silt Basin Type B	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.06 Special Stilling Basin	1640.01 Coir Fiber Baffle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>W-5714E</i>	SHEET NO. <i>EC-3A</i>
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 (HQW) 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 HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
W-5714E	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

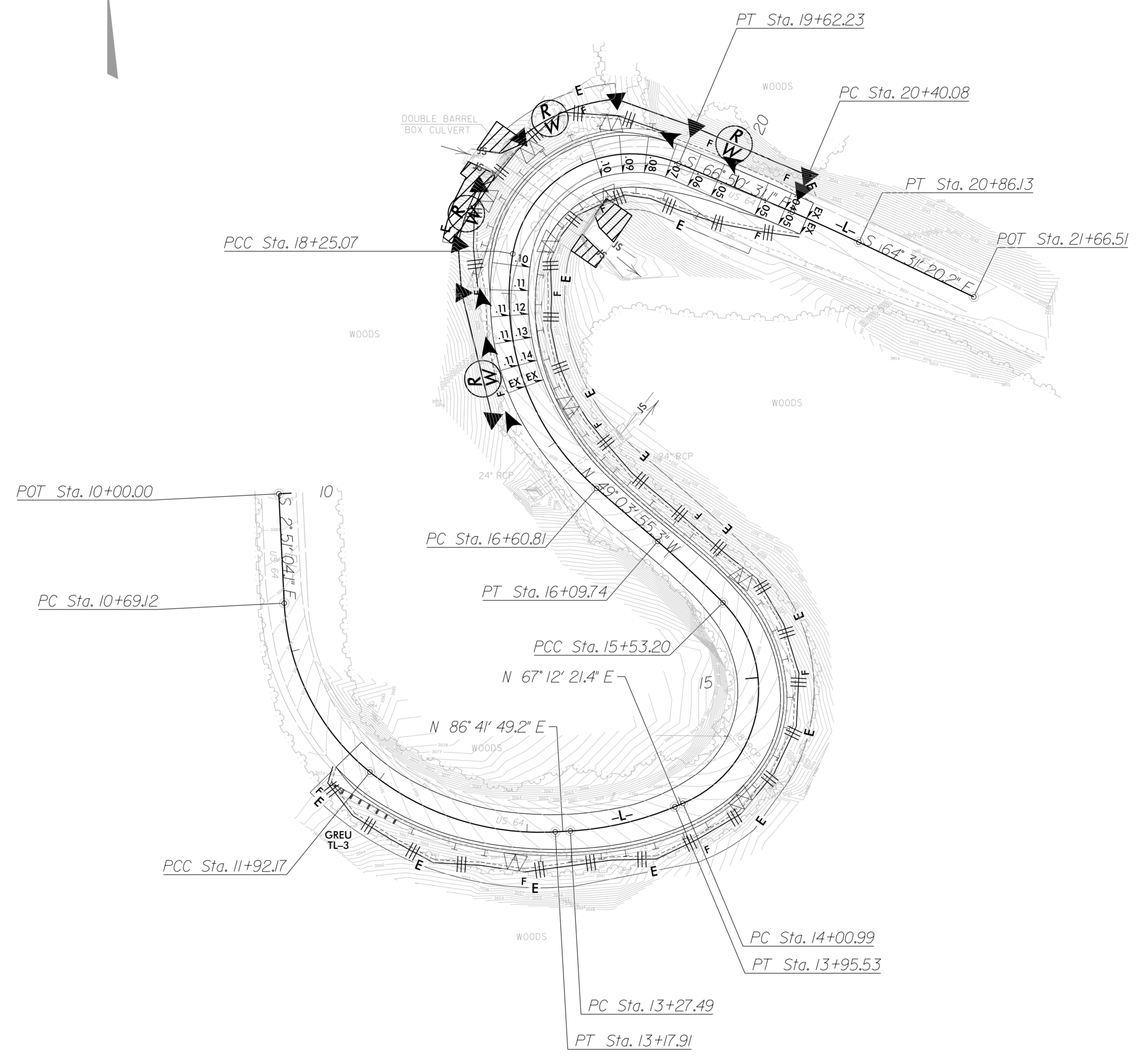
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



FRONTIER COMMUNICATIONS
84 ALLEN STREET
SYLVIA, N.C. 28779

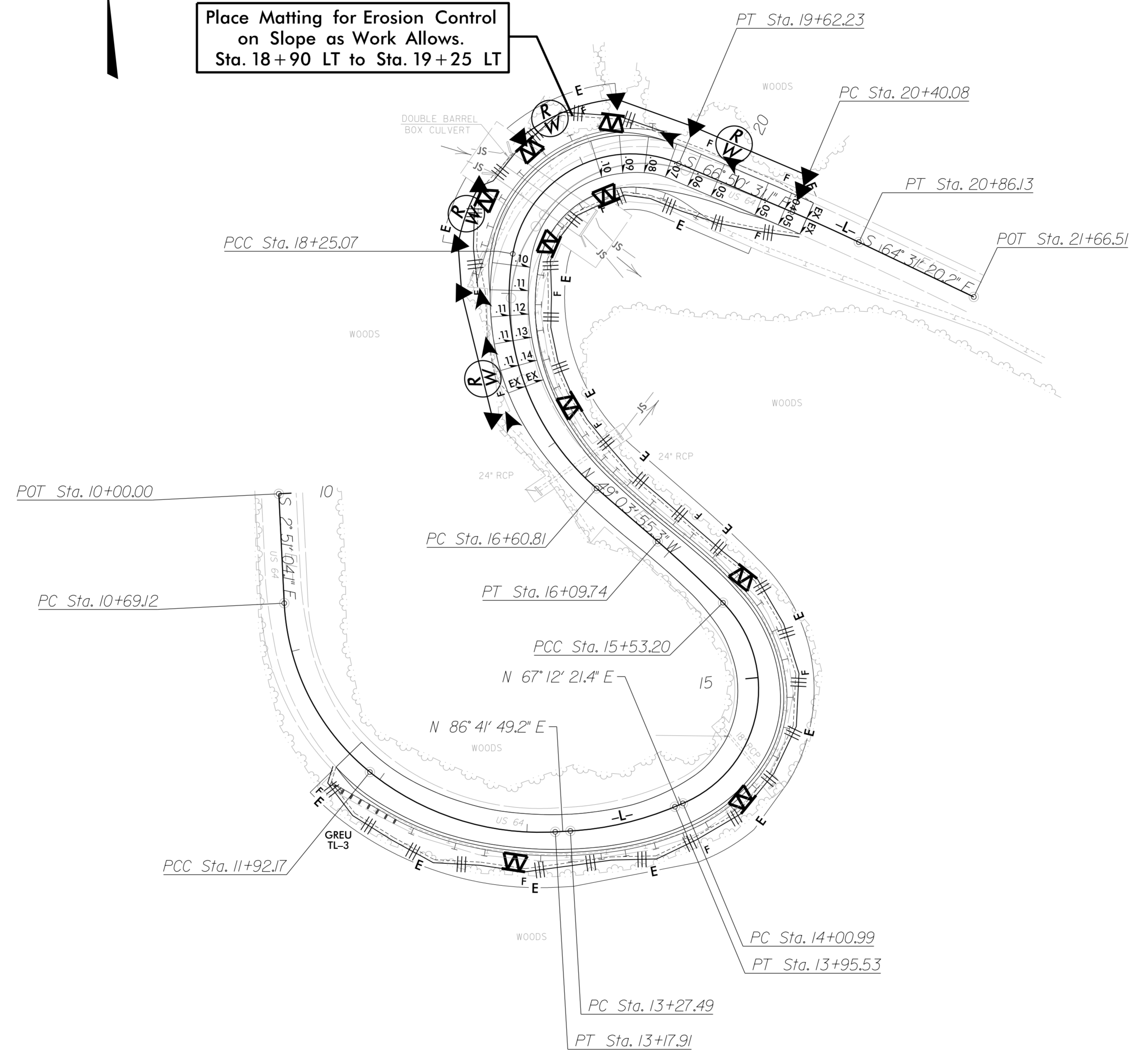


PROJECT REFERENCE NO.	SHEET NO.
W-5714E	EC-5/CONST-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 18+90 LT to Sta. 19+25 LT

FRONTIER COMMUNICATIONS
84 ALLEN STREET
SYLVA, N.C. 28779



T.I.P.: W-5714E

CONTRACT:

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
JACKSON COUNTY**

LOCATION: US 64, 0.5 MILE WEST OF JACKSON/TRANSYLVANIA COUNTY LINE

TIP NO. W-5714E	SHEET NO. SIGN-1
APPROVED: <small>DocuSigned by: Tyson A. Graves 94C02A34AC034FE</small>	
DATE: 9-21-2018	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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
901.50	ARROWS AND SHIELDS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, U CHANNEL

GENERAL NOTES

- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . 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.
- . 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.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	26	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	30	L.F.
4102000000	904	SIGN ERECTION, TYPE E	4	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	9	EA.
4360000000	SP	LIGHTED SIGN SYSTEM, SPECIAL	14	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	E AND F SHEETS
SIGN-3	SIGN PLAN SHEET
SIGN-4	SIGN CONDUIT SHEET

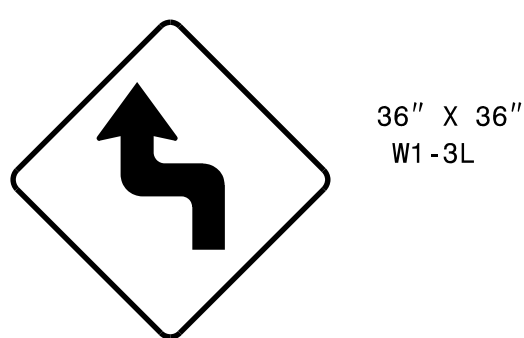
PLAN PREPARED BY: ms consultants, inc.

Tyson A. Graves, PE PROJECT ENGINEER
PROJECT DESIGN ENGINEER



ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number : C-3239

401 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

402 QUANTITY REQ'D 2

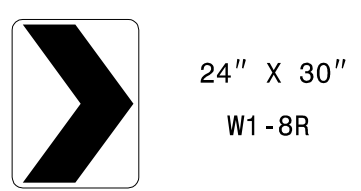


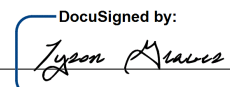
MOUNT UNDER SIGN 401

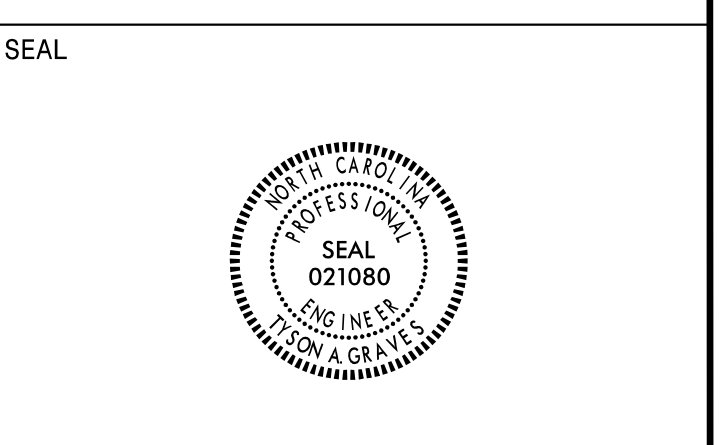
SP1 QUANTITY REQ'D 7



SP2 QUANTITY REQ'D 7



APPROVED: 
DATE: 9-21-2018

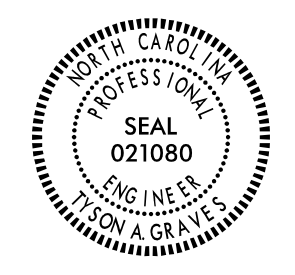


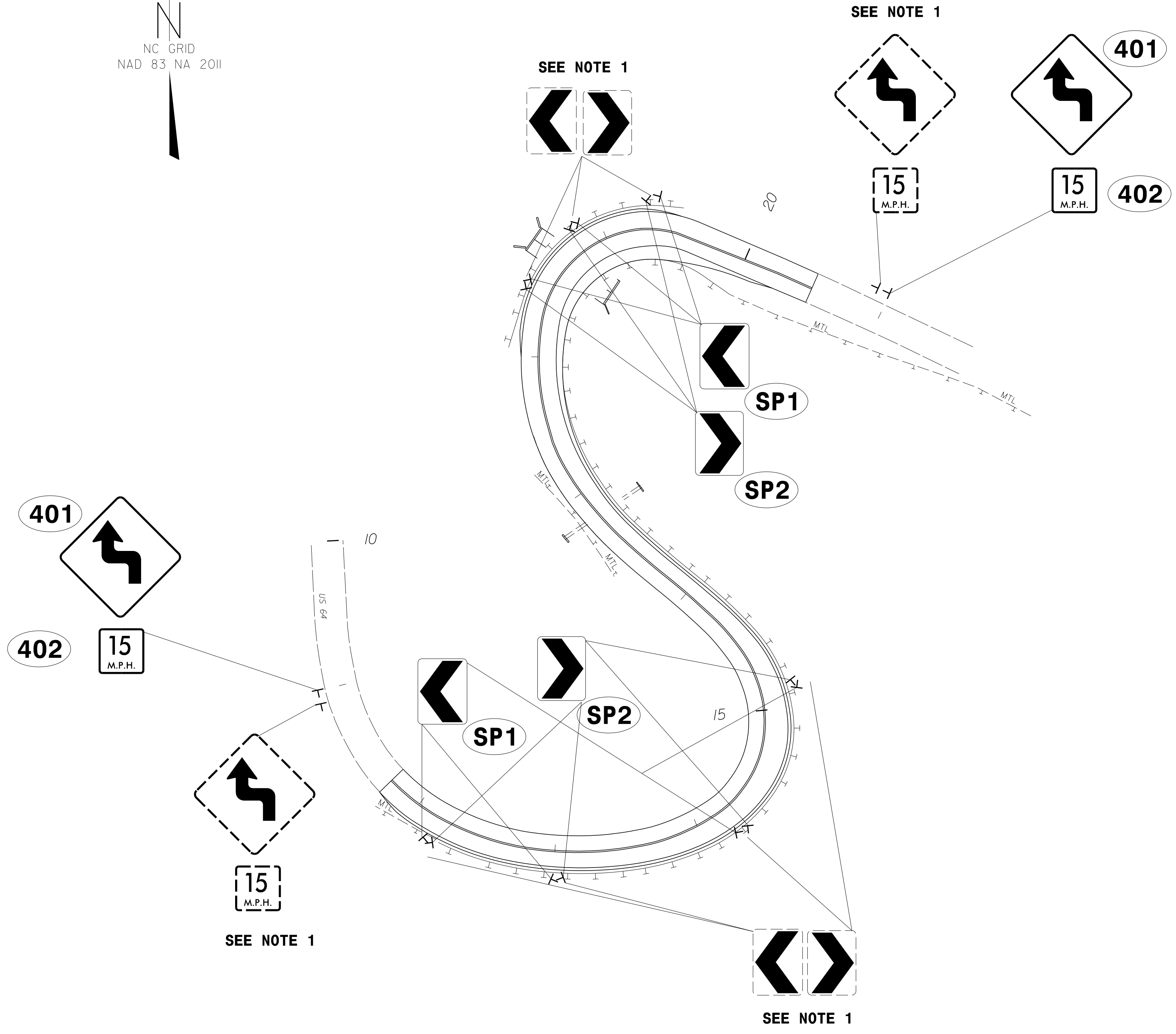
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Jsertrgraves



TYPE "E" & "F" SIGNS

TIP NO. W-5714E	SHEET NO. SIGN-3
DocuSigned by: <i>Lyons & Lyons</i> APPROVED: _____ <small>9102344403MFE</small>	
DATE: 9-21-2018	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

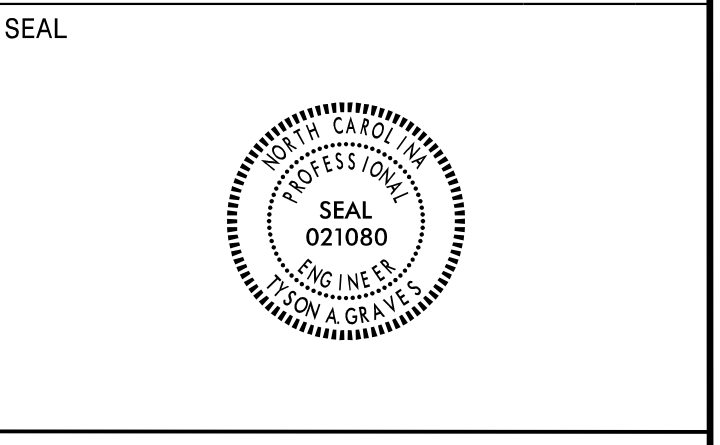


9/21/2018
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 Jsertrgraves


 ms consultants, inc.
 920 Main Campus Drive
 Suite 430
 Raleigh, NC 27606
 NC License Number : C-3239

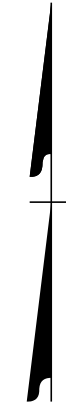
EXISTING AND PROPOSED SIGNS

DocuSigned by:
Lynn Reeves
APPROVED: _____
DATE: 9-21-2018



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W/LT



TRENCH INSTALLATION
OF CONDUIT

CONNECT POWER
FROM EXISTING
POLE

20
W/LT

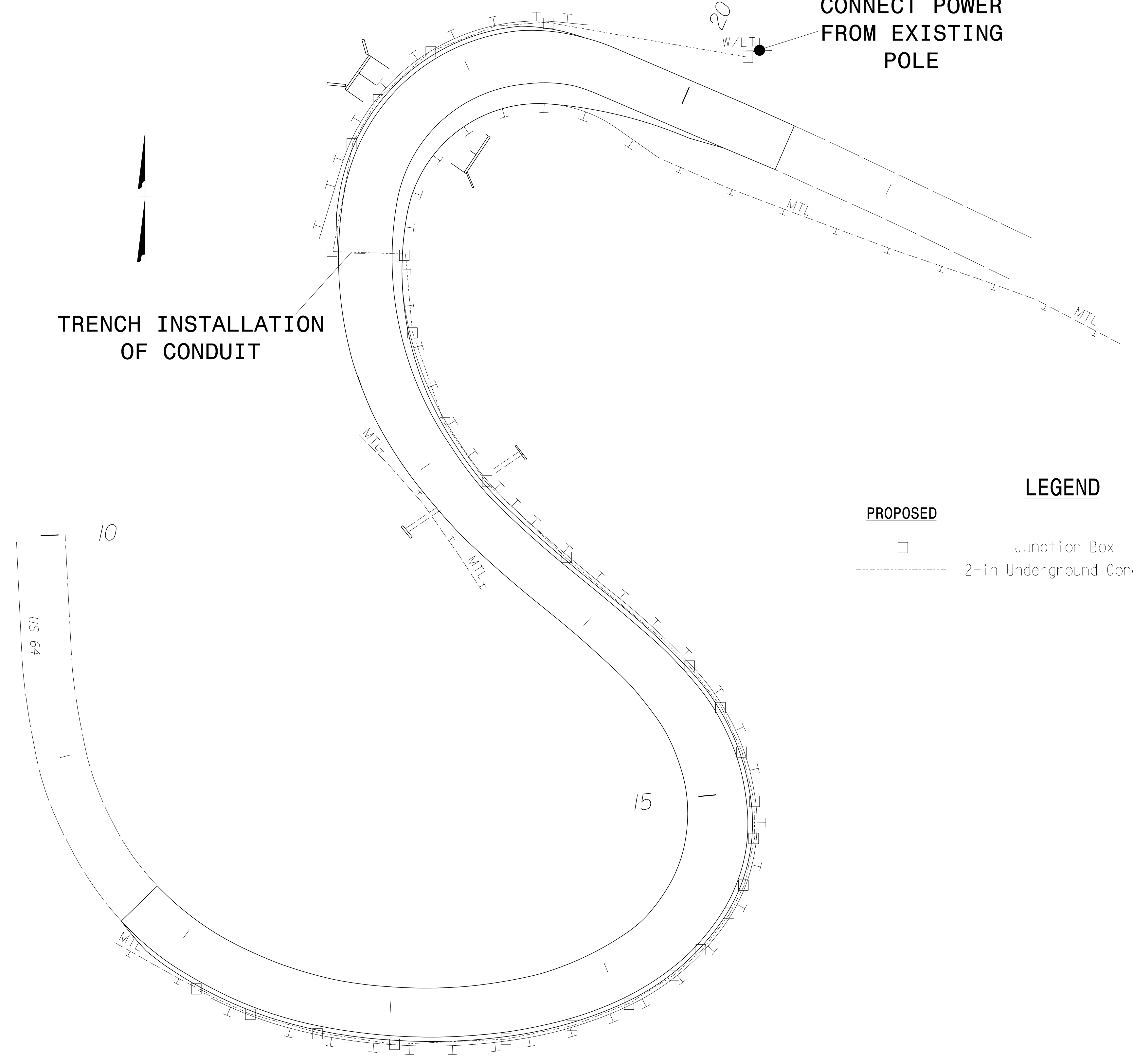
W/LT

LEGEND

PROPOSED

EXISTING

- Junction Box
- 2-in Underground Conduit



9/21/2018
N:\D006816\06816-00 W-5714E Chrysler Curve\Traffic\SIGNING\W5714E_SIGN_PSH_4.dgn
Jsertgraves



ms consultants, inc.
920 Main Campus Drive
Suite 430
Raleigh, NC 27606
NC License Number : C-3239

**EXISTING AND PROPOSED
SIGNS**