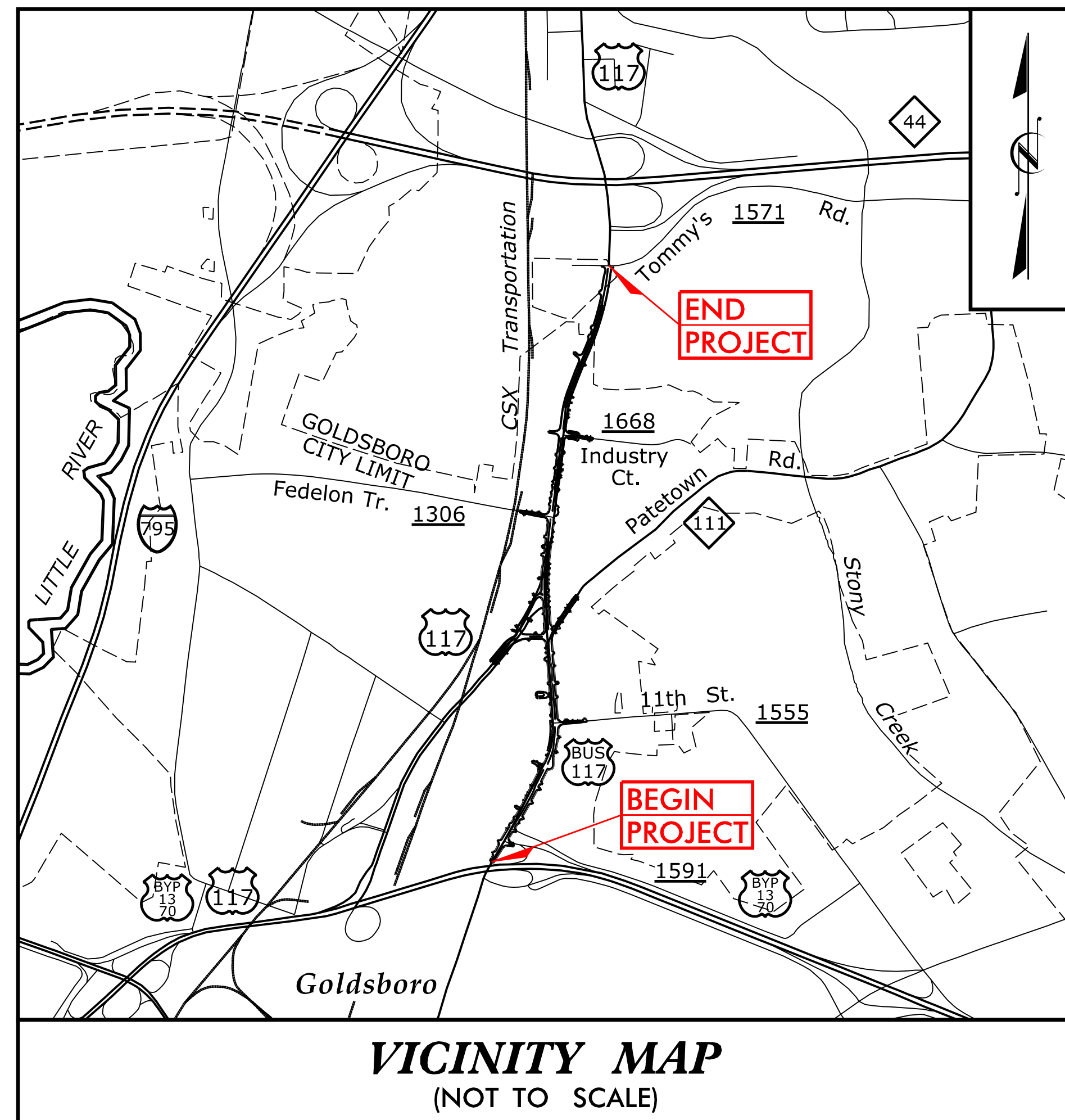
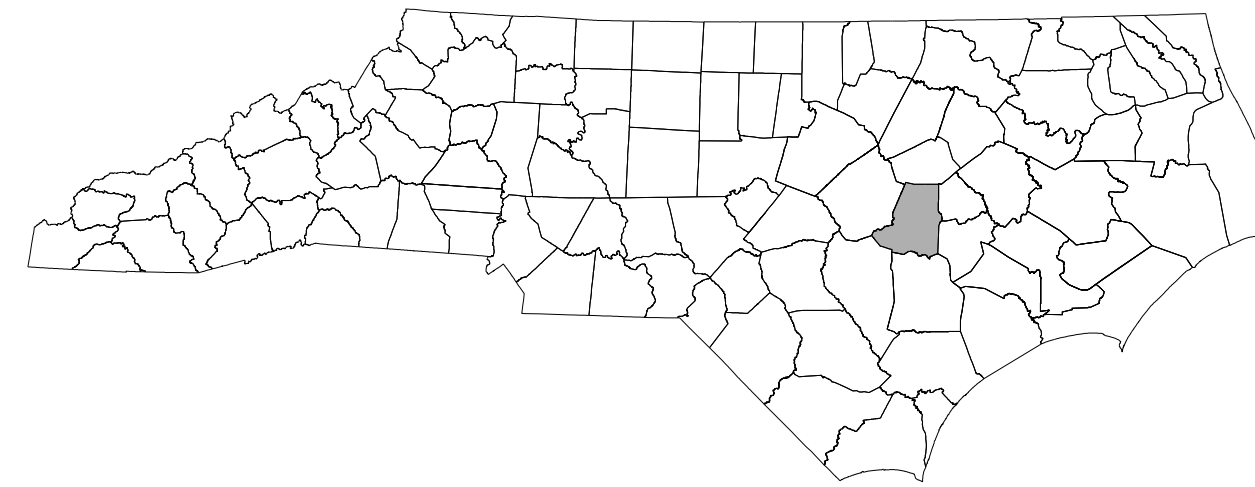


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**WAYNE COUNTY**



**LOCATION:**

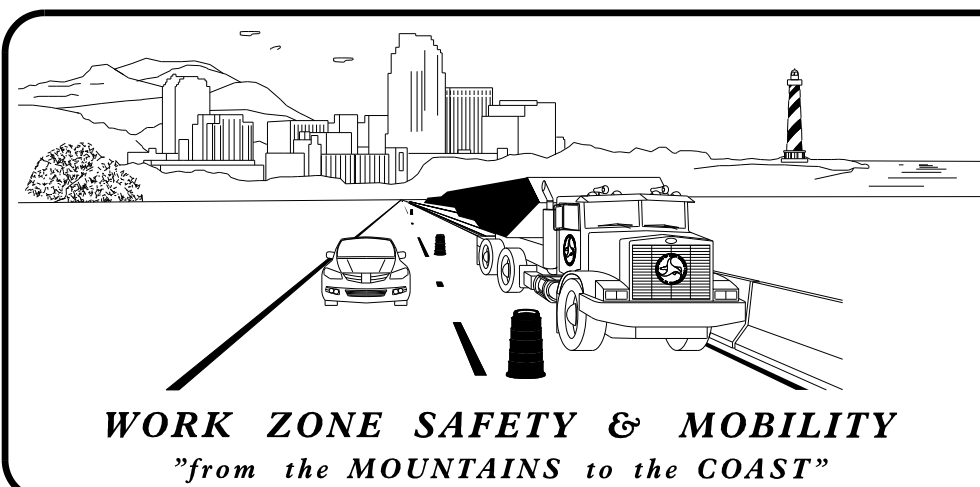
**US 117A (N. WILLIAM ST) FROM NORTH OF US 70 TO SR 1571 (TOMMY'S RD)**

**VICINITY MAP**  
(NOT TO SCALE)

**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B & 1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
TMP-2	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2A	TEMPORARY SHORING NOTES
TMP-2B THRU TMP-2D	SPECIAL SIGN DESIGNS
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU TMP-13	TEMPORARY TRAFFIC CONTROL PHASE 1 DETAILS
TMP-14 THRU TMP-22	TEMPORARY TRAFFIC CONTROL PHASE 2 DETAILS
TMP-23 THRU TMP-28	TEMPORARY TRAFFIC CONTROL PHASE 3 DETAILS
TMP-29 THRU TMP-33	TEMPORARY TRAFFIC CONTROL PHASE 4 DETAILS

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.ppt  
 USER: CHARNDEN  
 FILE: p:\WPAPP\PA01\SouthEast\_Tampa\Documents\000166\CON0104978\CON0105025\000000000273731\6.0\_CAD\BIM\6.2\_Work\In\_Progress\U-2714\_NCDOT\_File\_Structure\TrafficControl\TCP-U-2714\_TMP-TMP-01.dgn  
 PENTABLE: NCDOT\_tcp.tbl  
 TIME: 2:37:37 PM  
 DATE: 12/10/2019



**PLANS PREPARED BY:**

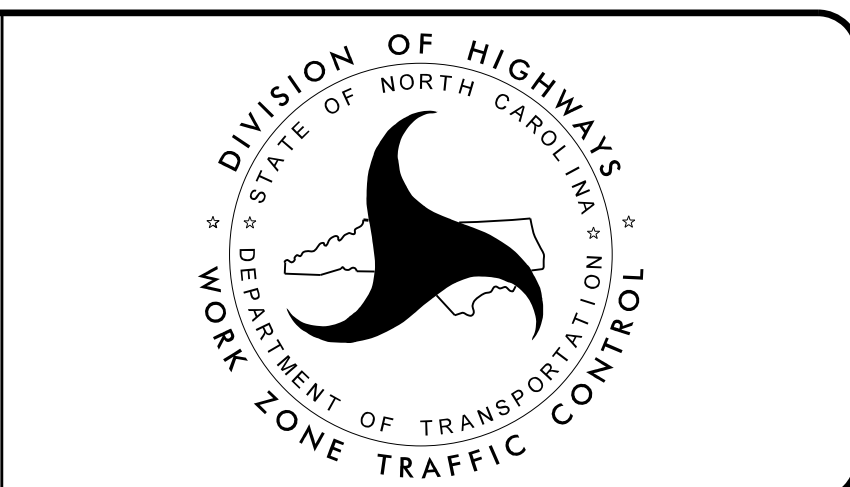
MICHELLE WARD, P.E.  
TRAFFIC CONTROL PROJECT ENGINEER

CHRIS HARNDEN  
TRAFFIC CONTROL DESIGN ENGINEER

**NCDOT CONTACTS:**

STEVE KITE, P.E.  
PROJECT ENGINEER

ALLA LYUDMIRSKAYA  
PROJECT DESIGN ENGINEER



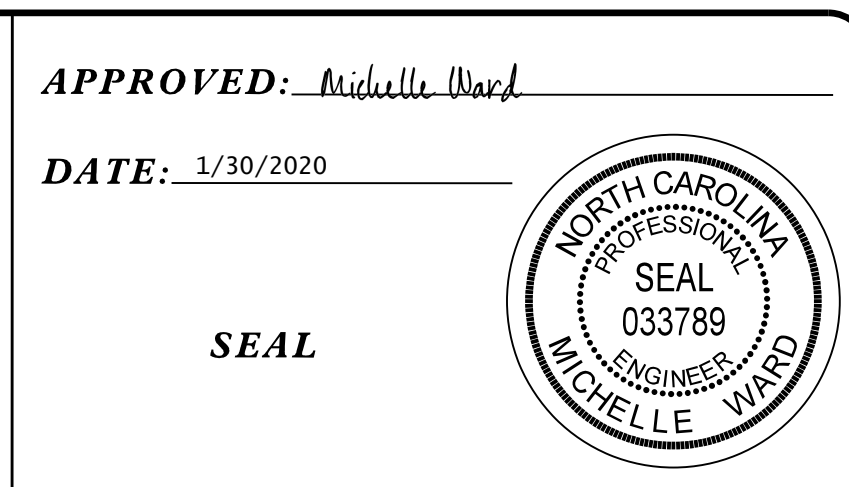
PLAN PREPARED BY:  
**HDR** HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

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

APPROVED: Michelle Ward

DATE: 1/30/2020

SEAL




SHEET NO. TMP-1  
**U-2714**  
**TIP PROJECT:**









PROJ. REFERENCE NO.	SHEET NO.
U-2714	TMP-2A
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

## TEMPORARY SHORING NOTES

### NOTES FOR TEMPORARY SHORING No. 1

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

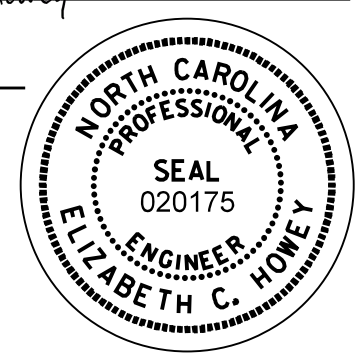
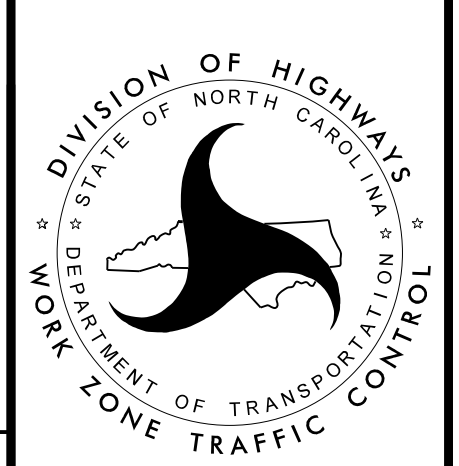
UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
 COHESION (c) = 0 LB/SF  
 GROUNDWATER ELEVATION = 110 FT+

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING

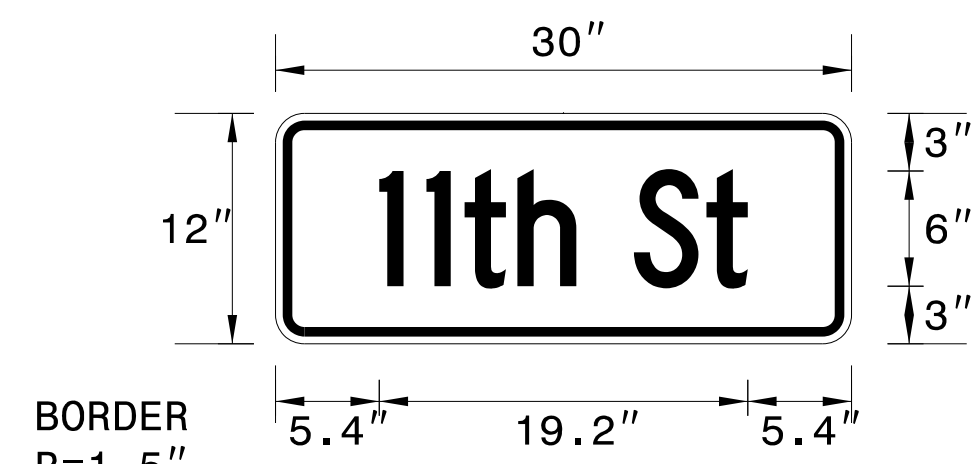
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

REVISIONS

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt      PENTABLE: NCDOT\_tcp.tbl  
 USER: CHARNDEN      DATE: 12/10/2019      TIME: 1:08:44 PM  
 FILE: p:\p\WAPPPTFA01\SouthEast\_Temp\Documents\000166\CON0104978\CON0105025\000000000273731\6.0.CAD.BTM\6.2.Work.In.Progess\U-2714.NCDOT.File.Structure\TrOFFicContr\TCP-U-2714\_TMP-TMP-02A.dgn

APPROVED: <i>Elizabeth C. Honey</i> DATE: 1/30/2020 <div style="text-align: center; margin-top: 20px;">  </div>		<h3 style="margin: 0;">TEMPORARY SHORING NOTES</h3>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		

SIGN NUMBER: SP-01 TYPE: D QUANTITY: 13  SIGN WIDTH: 2'-6" HEIGHT: 1'-0" TOTAL AREA: 2.5 Sq.Ft.  BORDER TYPE: RECESSED RECESS: 0.38" WIDTH: 0.44" RADII: 1.5"  NO. Z BARS: LENGTH:	BACKG COLOR: Orange COPY COLOR: Black  <table border="1" style="width: 100%; text-align: center;"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WIDTH</th> <th>HEIGHT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WIDTH	HEIGHT																																									DESIGN BY: CHRIS HARNDEN PROJECT ID: U-2714  CHECKED BY: RON KING DIV: 4  DATE: May 3, 2017
SYMBOL	X	Y	WIDTH	HEIGHT																																											
USE NOTES: 1,2  1. Legend and border shall be direct applied non reflective sheeting. 2. Background shall be Grade B reflective sheeting.																																															

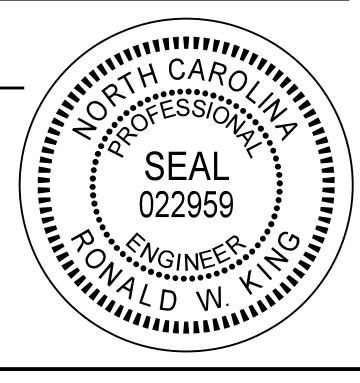
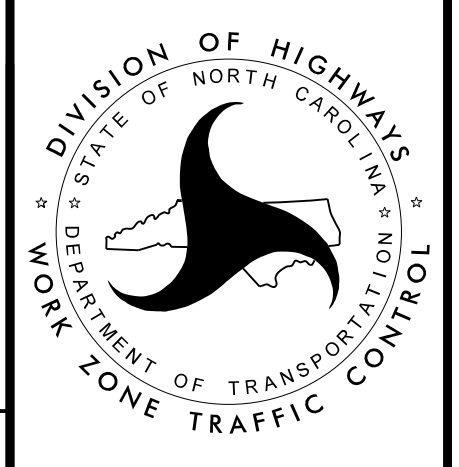


BORDER  
 R=1.5"  
 TH=0.44"  
 IN=0.38"

Letter spacings are to start of next letter												Series/Size Text Length
	1	1	t	h		s	t					C 2000
	5.4	2.5	2	2.8	3.1	3	3.8	2.2	5.4			19.2

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARNDEN  
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REVISIONS

APPROVED: <u>Ron King</u>  DATE: 1/30/2020  SEAL			SPECIAL SIGN DESIGN
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			






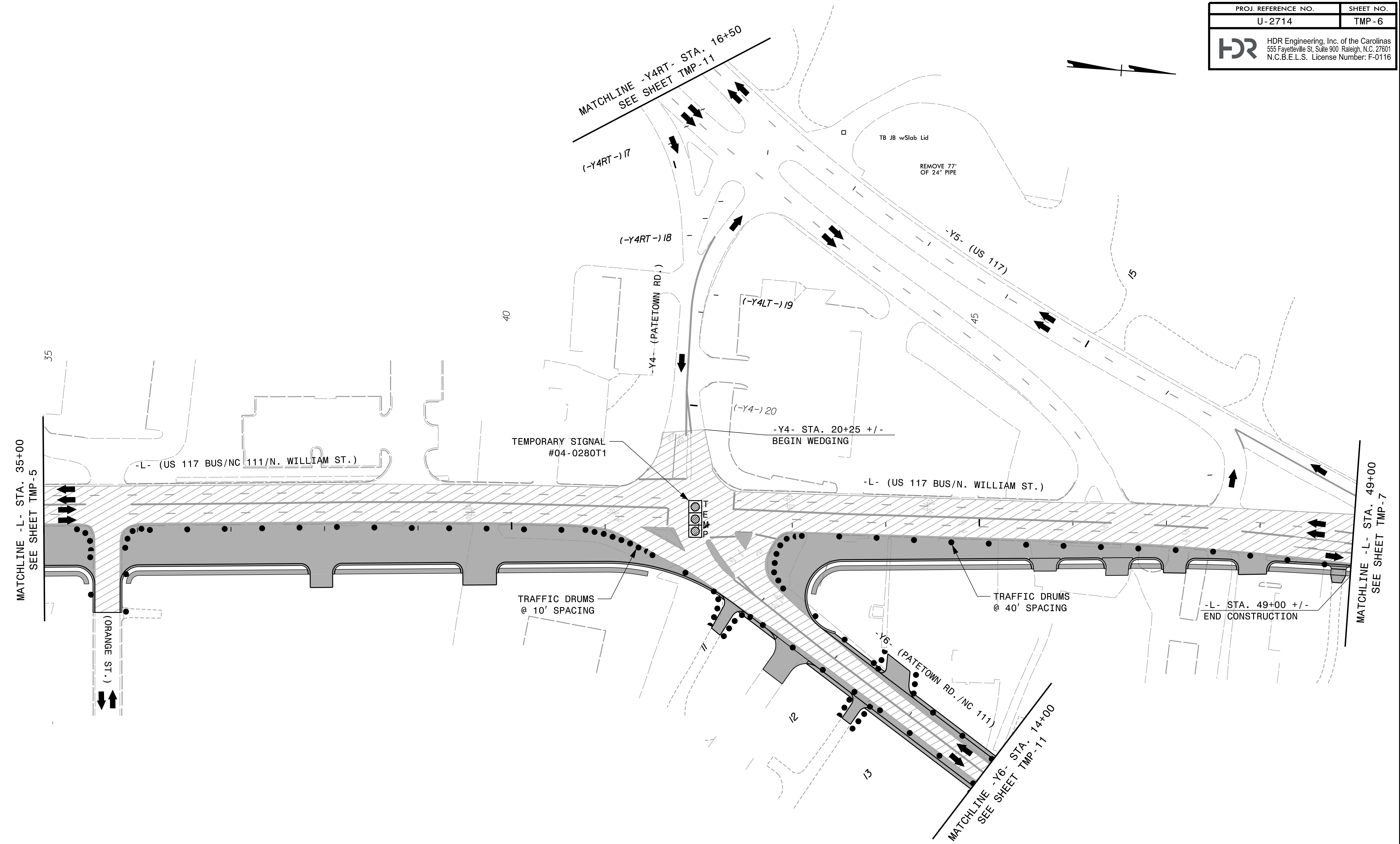








PROJ. REFERENCE NO.	SHEET NO.
U-2714	TMP-6
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



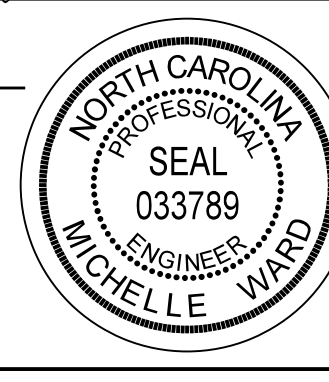
REVISIONS  
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 USER: CHARNDEN  
 DATE: 12/10/2019  
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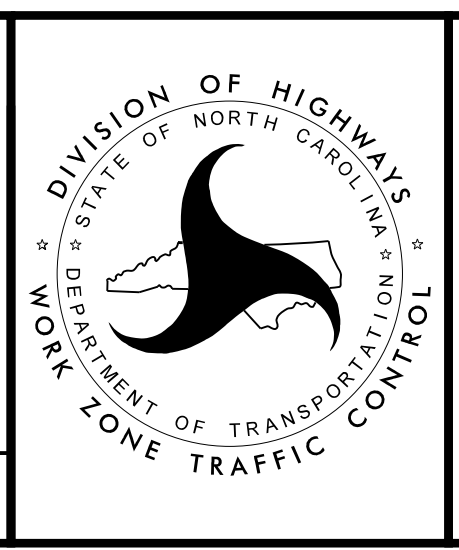
APPROVED: *Michelle Ward*

DATE: 1/30/2020

SEAL



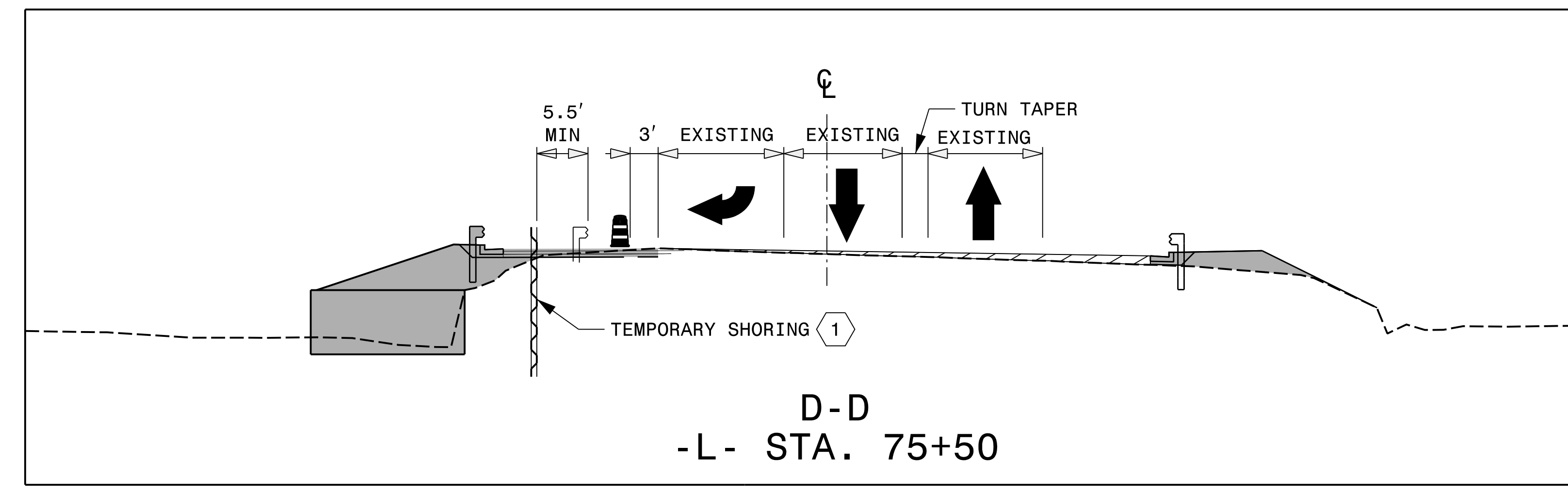
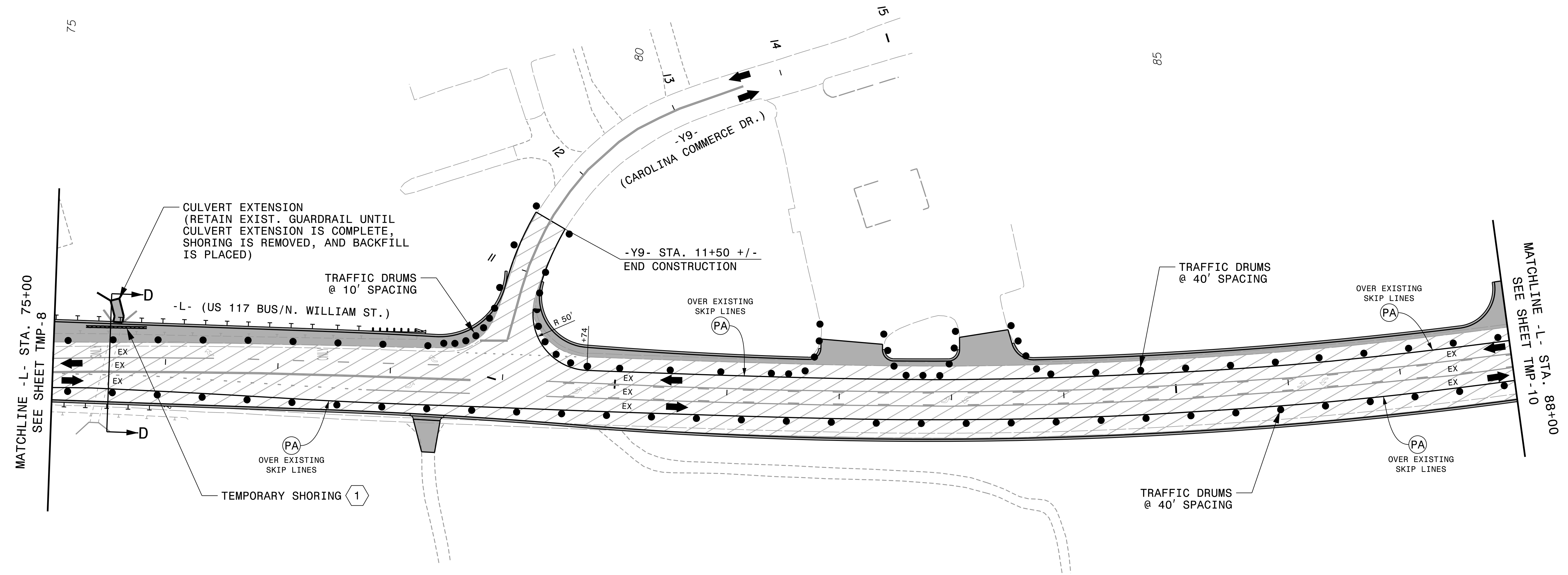
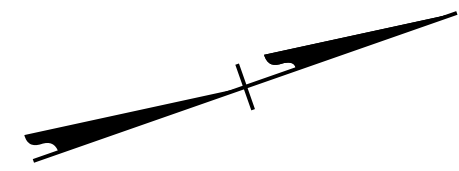
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

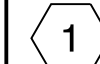


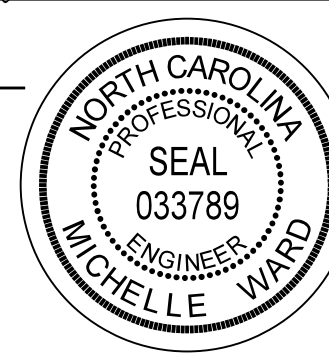
**PHASE 1  
STEP 1**

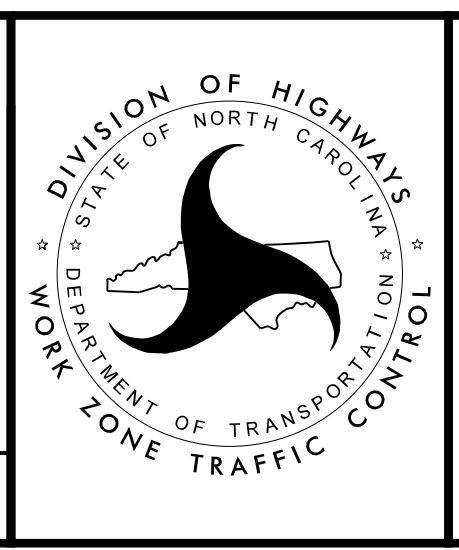







 TEMPORARY SHORING No. 1  
 QUANTITY = 340 SQ. FT.  
 FROM -L- STA. 75+28 +/-, 30.7' LT  
 TO -L- STA. 75+82 +/-, 31.6' LT

APPROVED: *Michelle Ward*  
 DATE: 1/30/2020  
 SEAL  





**PHASE 1**  
**STEP 1**

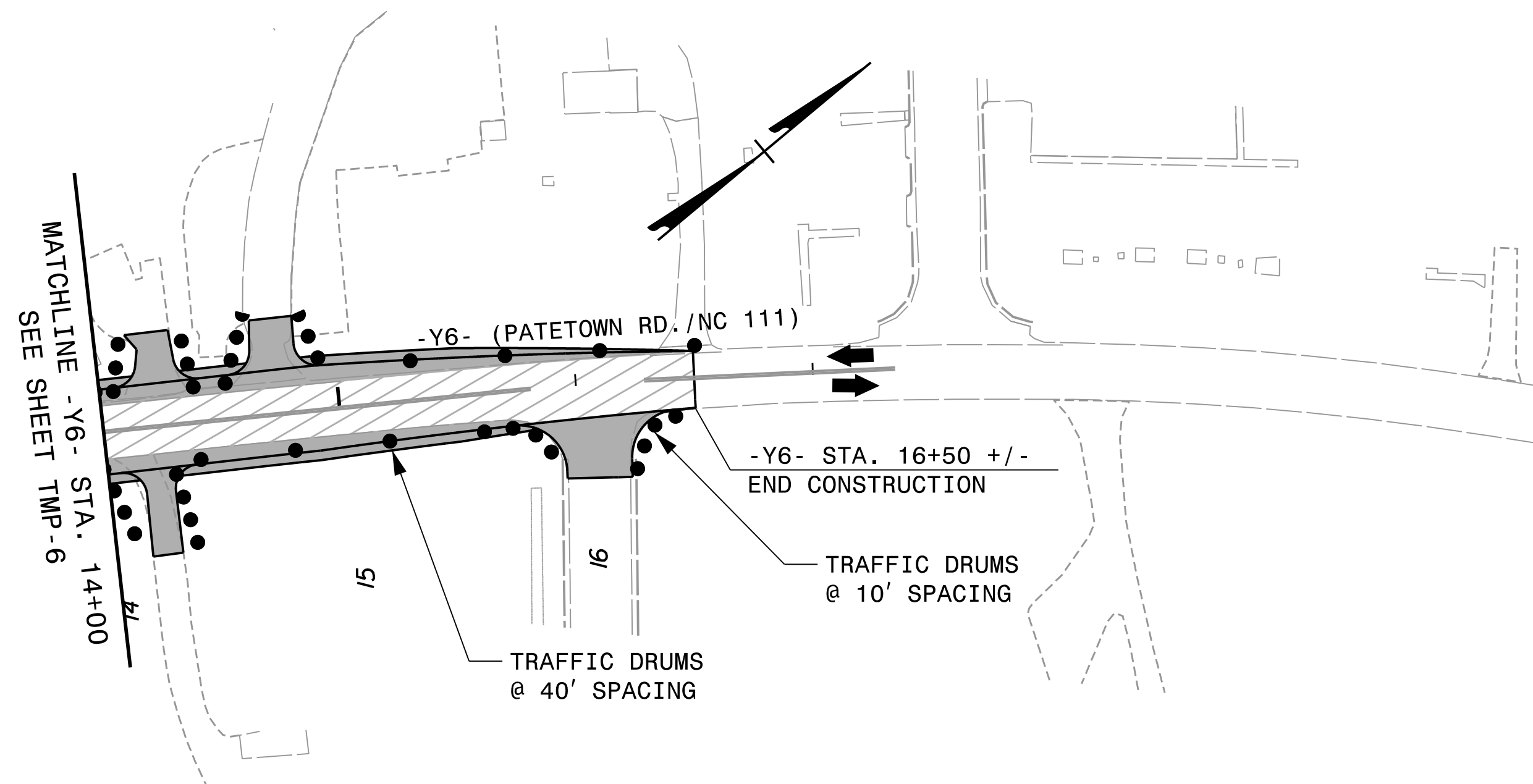
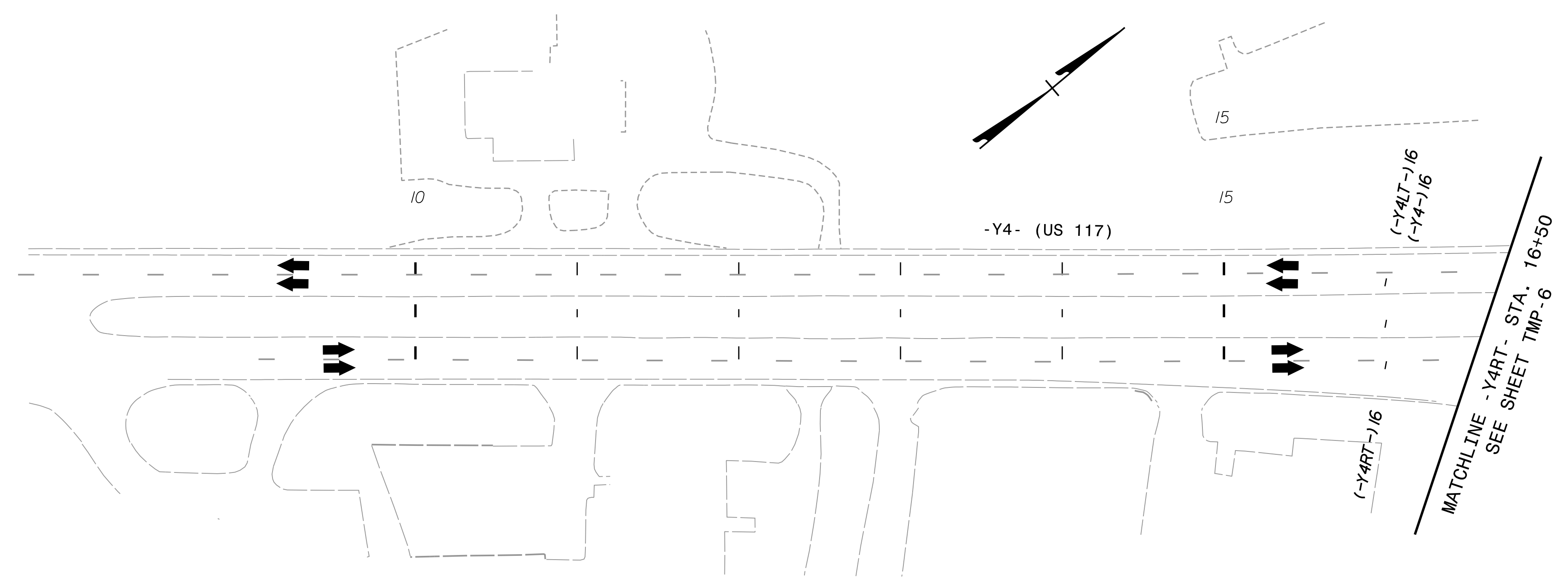
REVISIONS

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 USER: CHARNDEN  
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 PENTABLE: NCDOT\_tcp.tbl  
 TIME: 5:25:13 PM  
 DATE: 1/13/2020





PROJ. REFERENCE NO.	SHEET NO.
U-2714	TMP-11
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



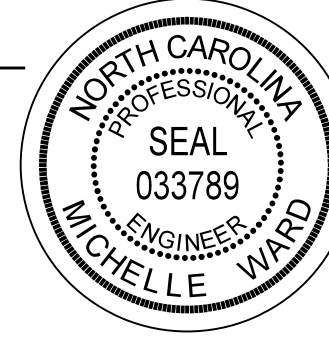
REVISIONS

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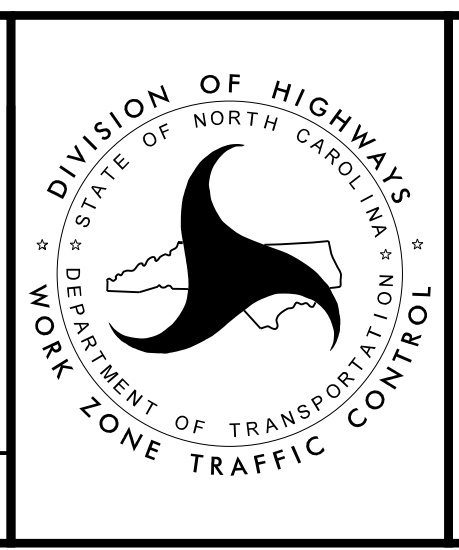
APPROVED: *Michelle Ward*

DATE: 1/30/2020

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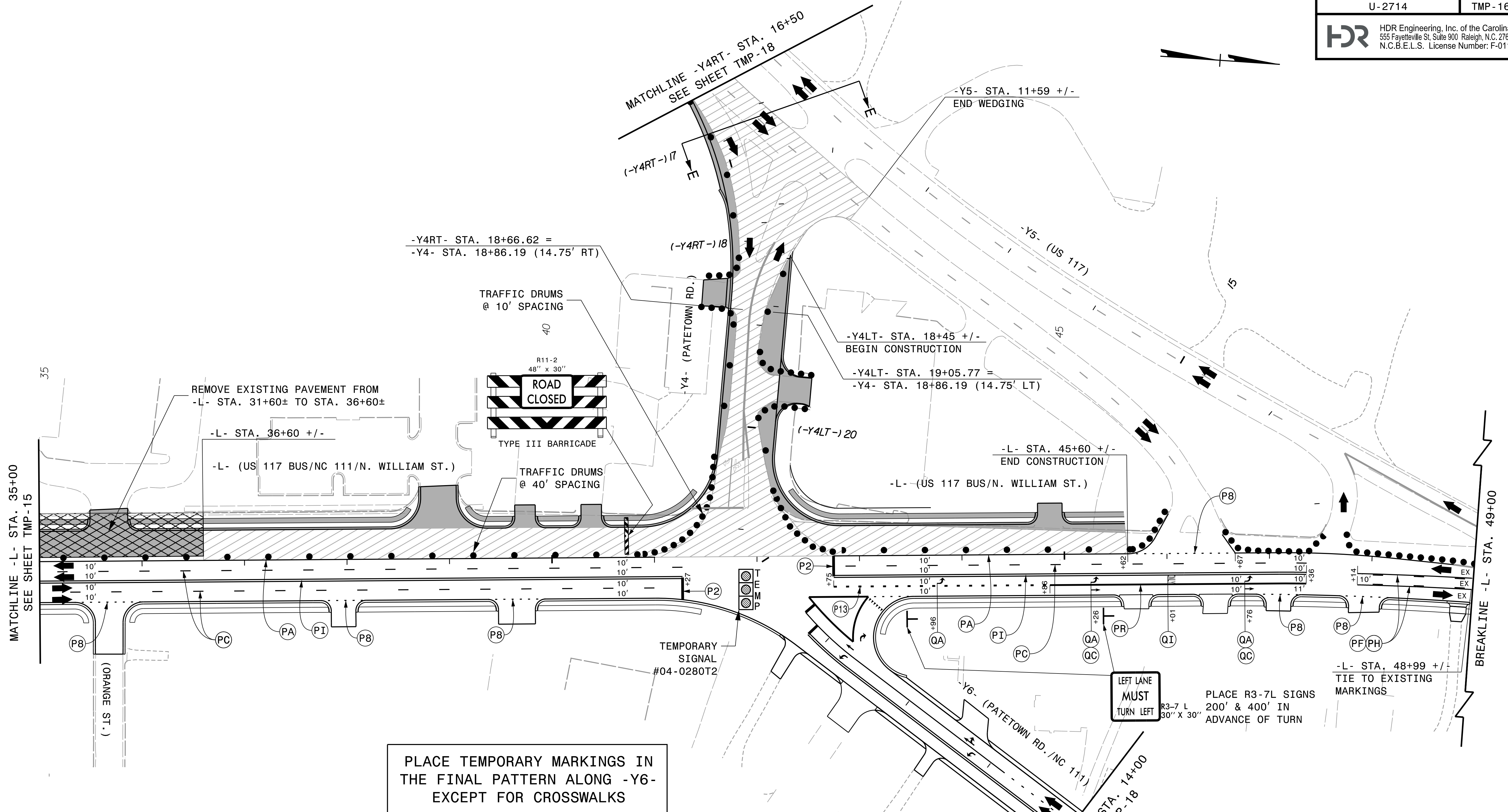
PHASE 1  
STEP 1







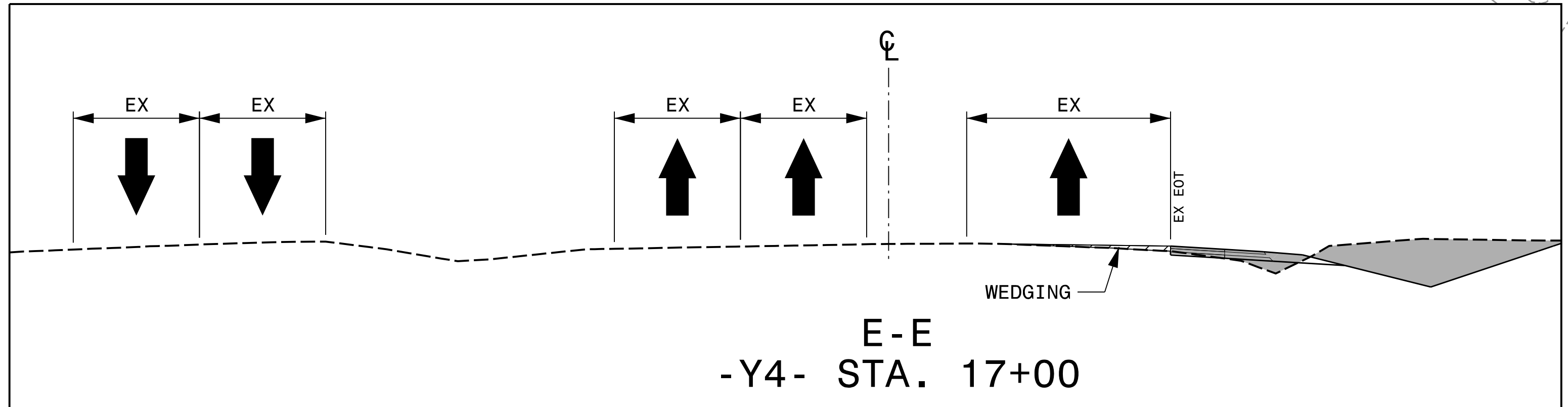




MATCHLINE -L- STA. 35+00  
SEE SHEET TMP-15

BREAKLINE -L- STA. 49+00

PLACE TEMPORARY MARKINGS IN THE FINAL PATTERN ALONG -Y6- EXCEPT FOR CROSSWALKS

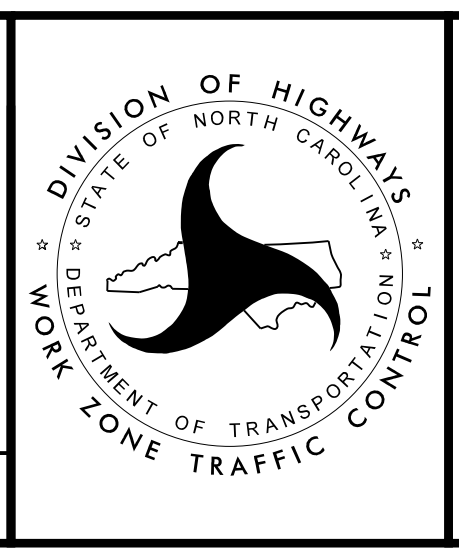


APPROVED: *Michelle Ward*  
DATE: 1/30/2020

SEAL

**NORTH CAROLINA PROFESSIONAL SEAL 033789 ENGINEER MICHELLE WARD**

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PHASE 2  
STEP 1

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARNDEN  
 DATE: 12/10/2019  
 TIME: 1:11:54 PM  
 FILE: P:\PWAPP\TFA01\SouthEast\Tempo\Documents\000166\CON\104978\CON\105025\000000002\731\6.0.CAD.BTM\6.2.Work.In.Progress\U-2714.NCDOT.File.Structure\TrafficControl\TCP-U-2714\_TMP-16.dgn

REVISIONS











**WORK REQUIRED TO REOPEN  
-Y4-/-Y5- (US 117) TO BE COMPLETED  
DURING A 30 DAY ICT  
(SEE SHEET TMP-22 FOR DETOUR ROUTE)**

ONCE COMPLETE, PLACE TEMPORARY MARKINGS,  
OPEN US 117 BUS AND SHIFT TRAFFIC TO  
THE PHASE 3 TRAFFIC PATTERN.

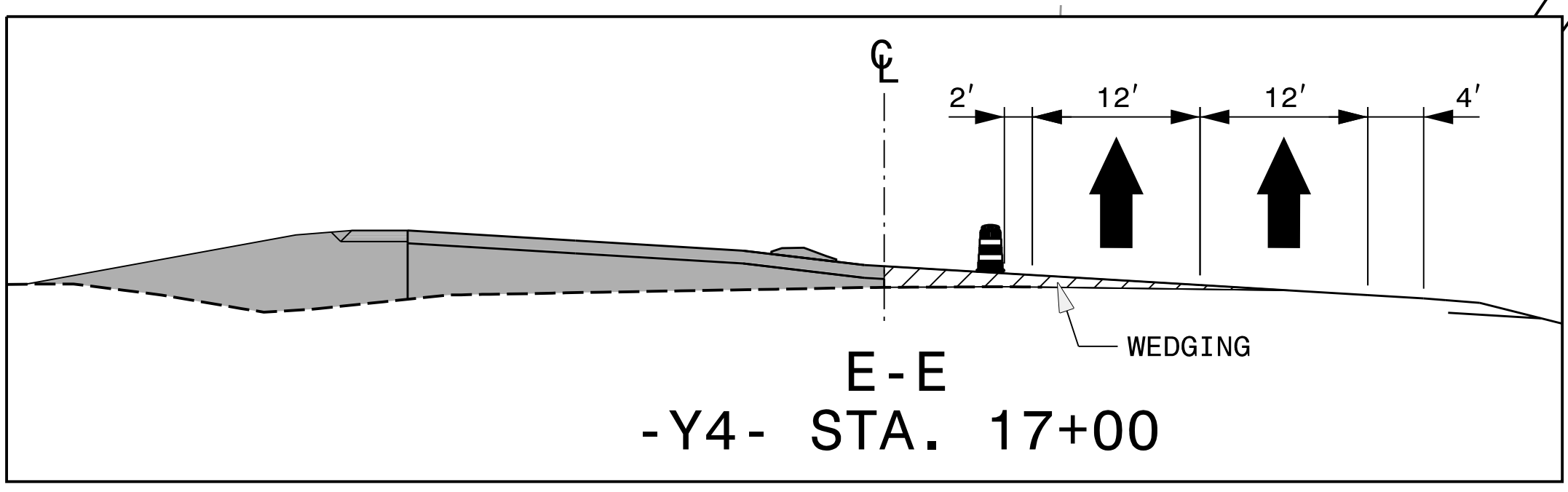
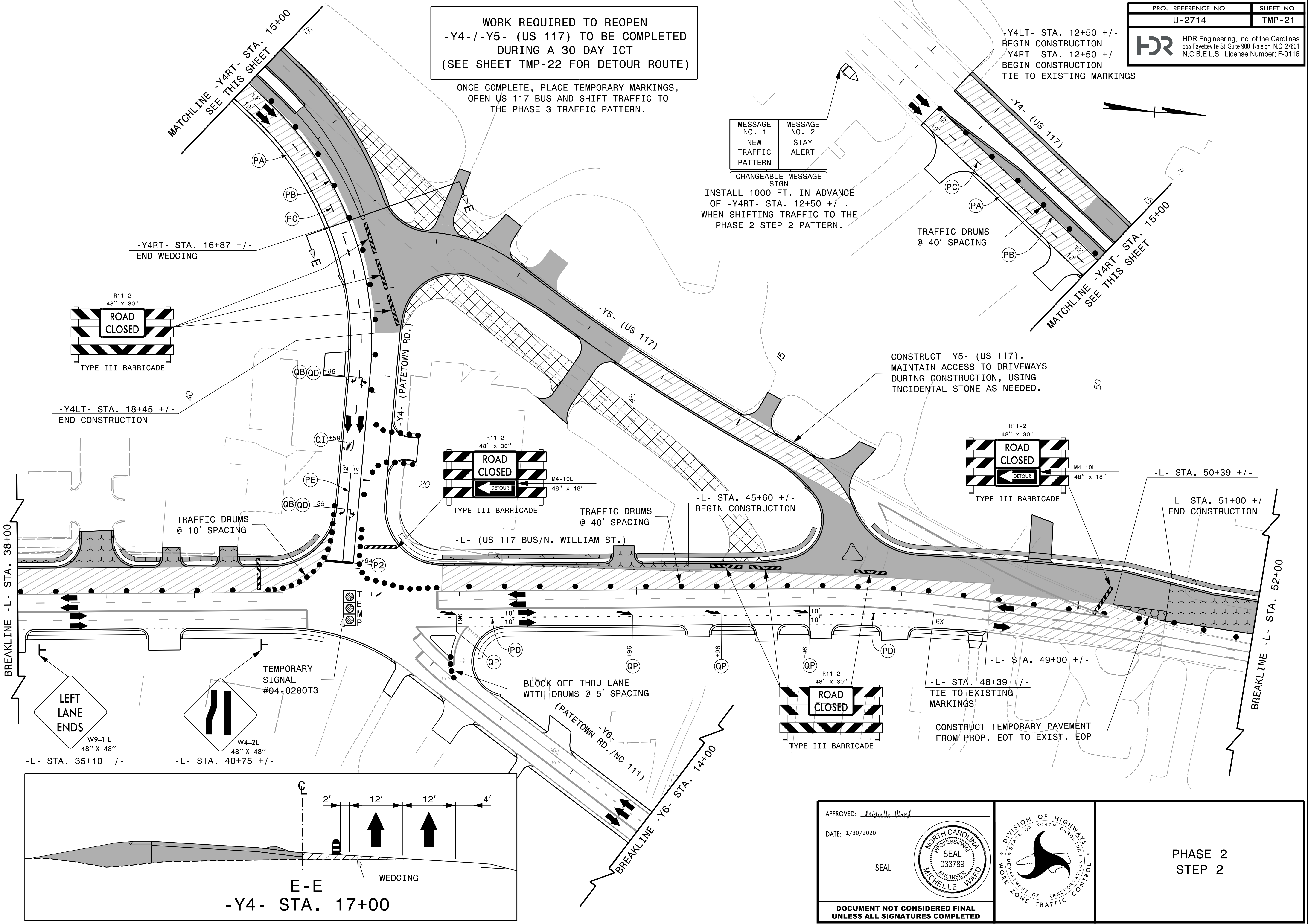
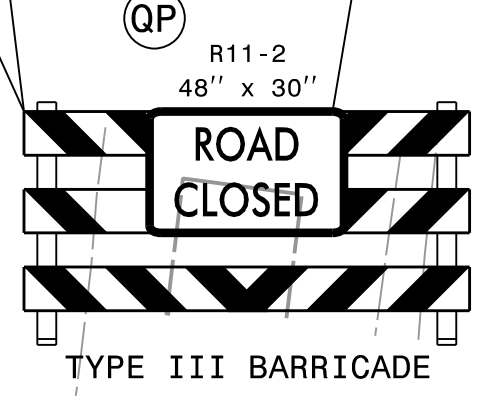
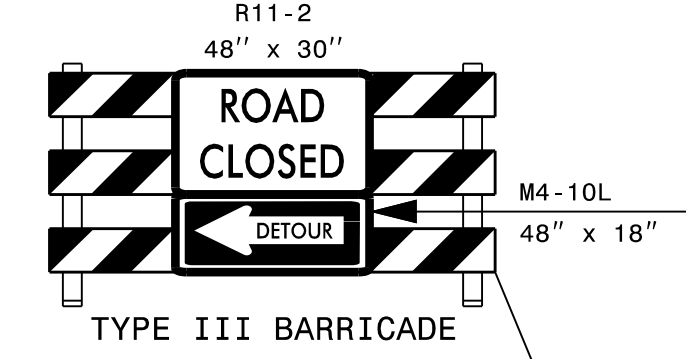
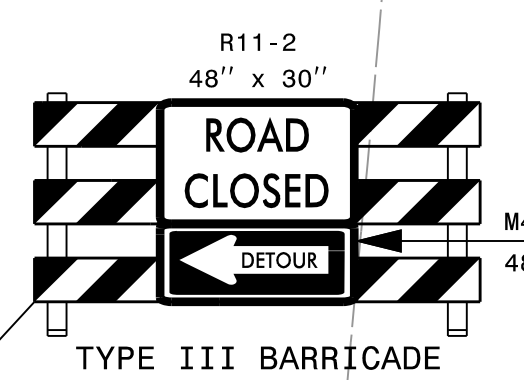
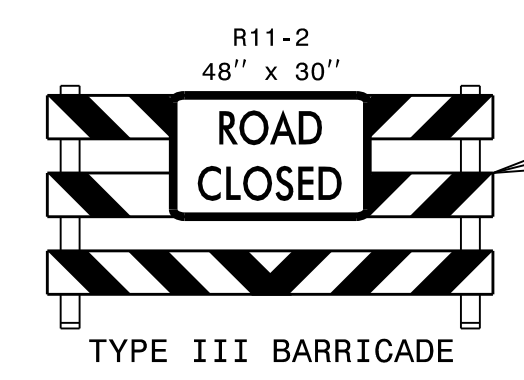
MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	STAY ALERT

CHANGEABLE MESSAGE SIGN  
INSTALL 1000 FT. IN ADVANCE OF -Y4RT- STA. 12+50 +/- WHEN SHIFTING TRAFFIC TO THE PHASE 2 STEP 2 PATTERN.

-Y4LT- STA. 12+50 +/- BEGIN CONSTRUCTION  
-Y4RT- STA. 12+50 +/- BEGIN CONSTRUCTION  
TIE TO EXISTING MARKINGS

TRAFFIC DRUMS @ 40' SPACING

CONSTRUCT -Y5- (US 117). MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION, USING INCIDENTAL STONE AS NEEDED.

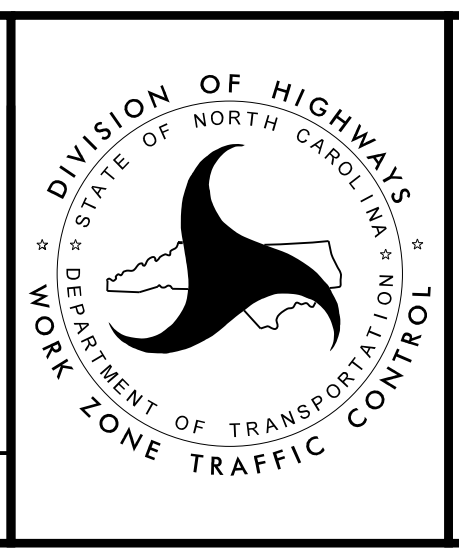


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DATE: 1/30/2020

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DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

**PHASE 2  
STEP 2**

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: CHARNDEN  
DATE: 12/31/2019  
TIME: 4:31:37 PM  
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REVISIONS















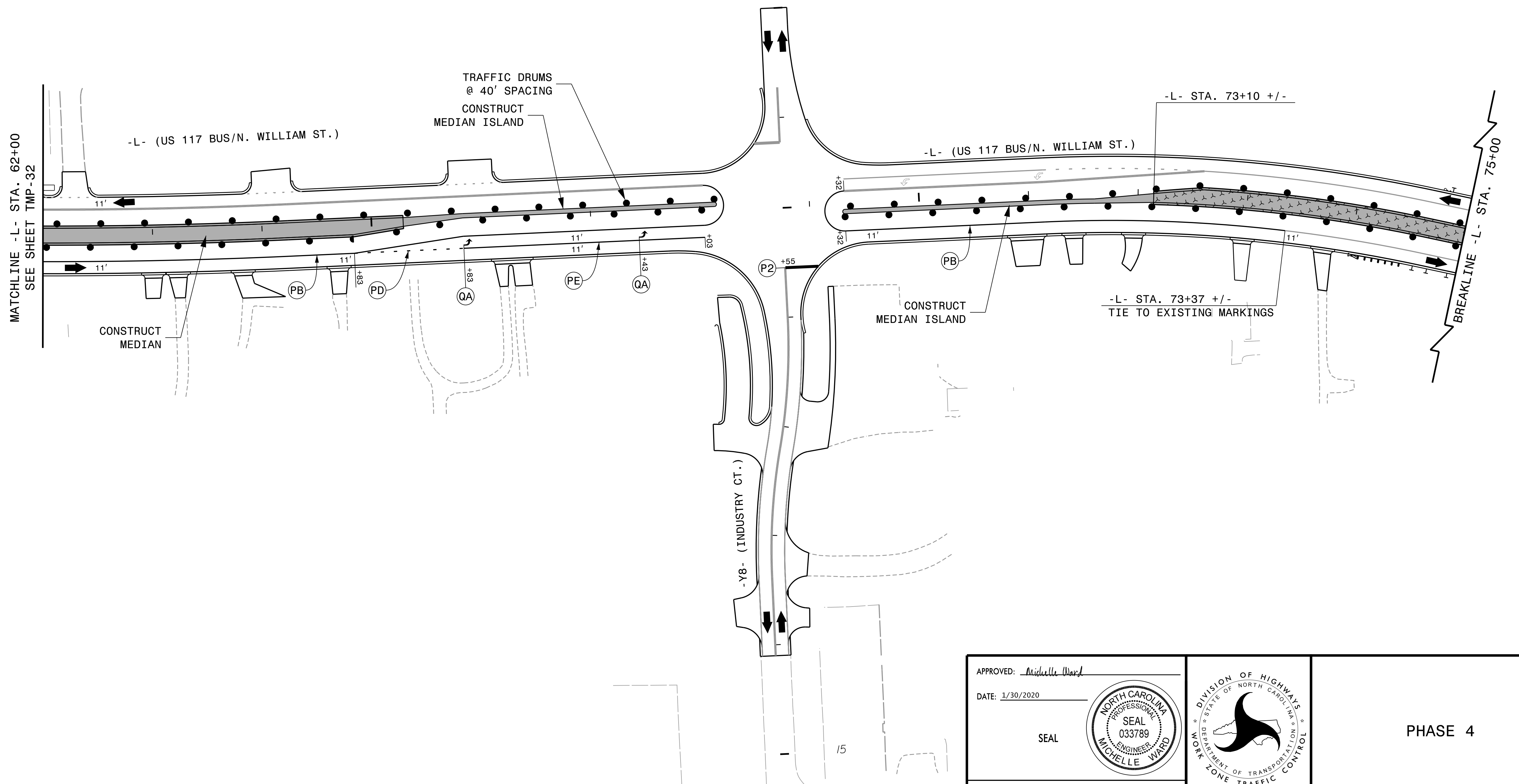






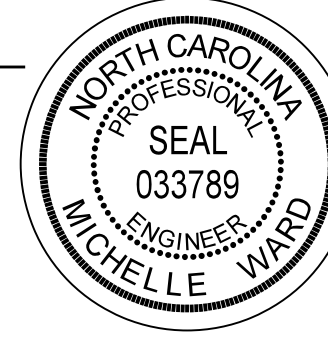


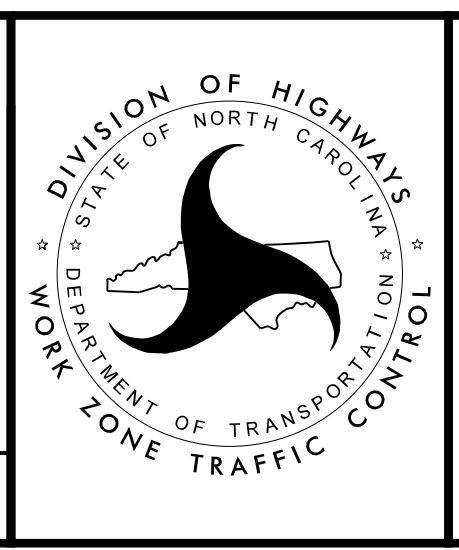




REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt PENTABLE: NCDOT\_tcp.tbl  
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APPROVED: *Michelle Ward*  
 DATE: 1/30/2020  
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 UNLESS ALL SIGNATURES COMPLETED



PHASE 4