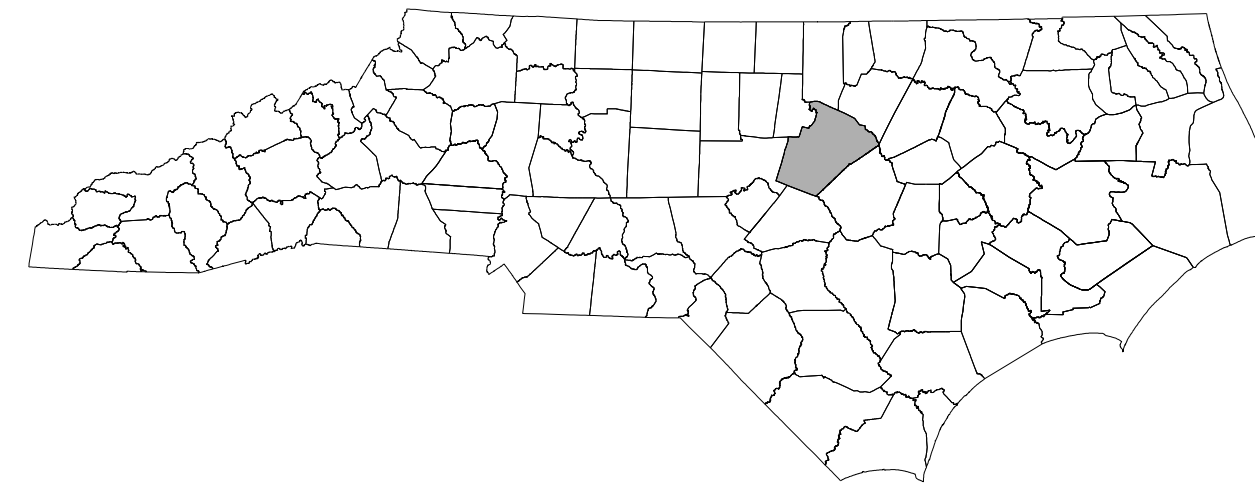


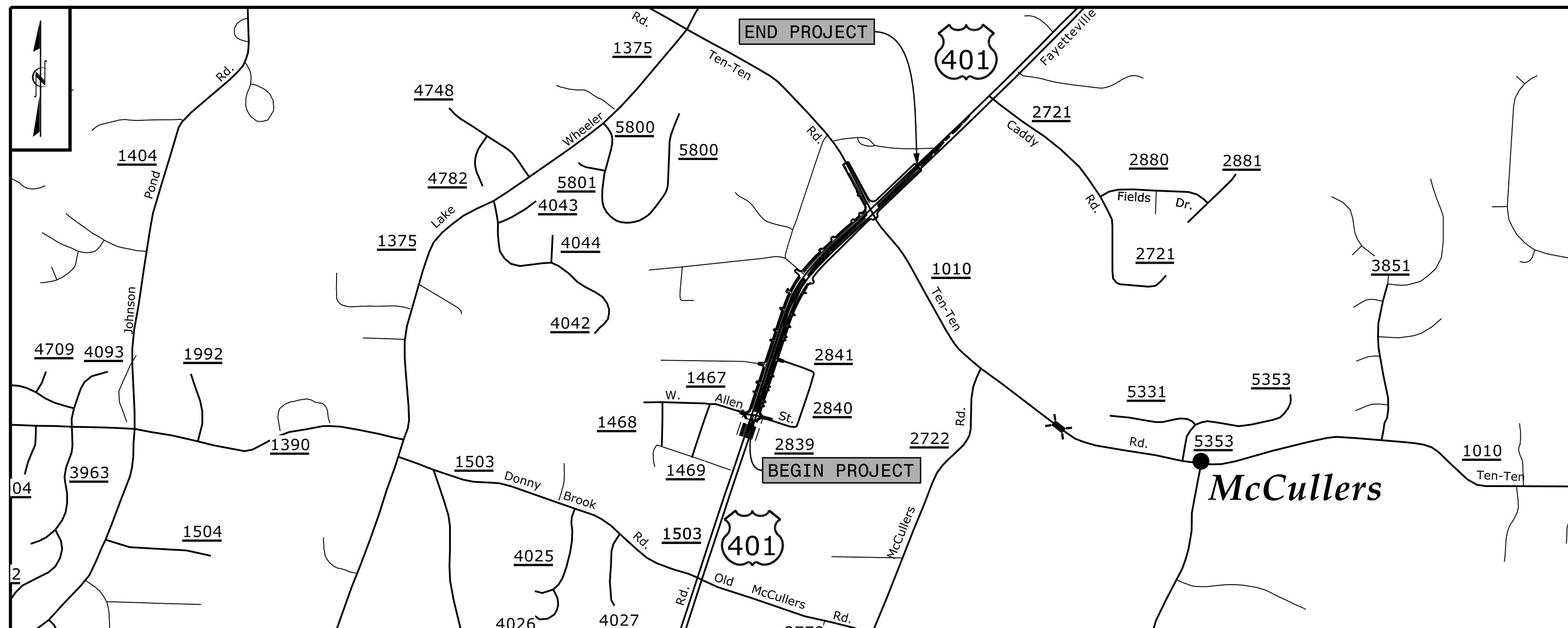
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAKE COUNTY

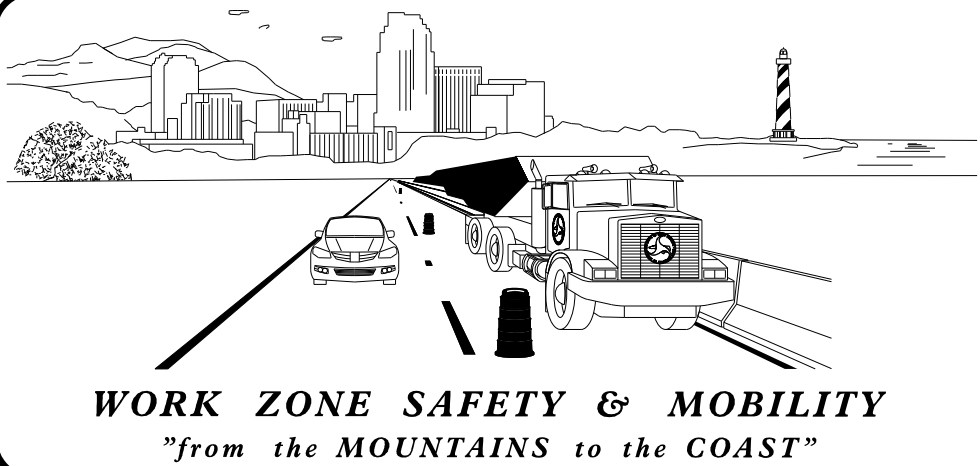


**LOCATION: US 401 (FAYETTEVILLE RD) FROM SR 1467 / SR 2839 (ALLEN ST)
TO NORTH OF SR 1010 (TEN-TEN RD)**



| SHEET NO. | TITLE |
|-------------------|-----------------------------------------------------------------------------------------|
| TMP-1 | TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS |
| TMP-1A | LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND |
| TMP-2 AND TMP-2A | TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES) |
| TMP-3 | TEMPORARY TRAFFIC CONTROL PHASING |
| TMP-4 THRU TMP-5 | TEMPORARY TRAFFIC CONTROL PHASE 1, STEP 1 DETAILS |
| TMP-6 THRU TMP-8 | TEMPORARY TRAFFIC CONTROL PHASE 1, STEP 2 DETAILS |
| TMP-9 THRU TMP-11 | TEMPORARY TRAFFIC CONTROL PHASE 2 DETAILS |

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PLANS PREPARED BY:

MICHELLE WARD, P.E.
TRAFFIC CONTROL PROJECT ENGINEER

CHRIS HARNDEN
TRAFFIC CONTROL DESIGN ENGINEER

NCDOT CONTACTS:

PROJECT ENGINEER

PROJECT DESIGN ENGINEER



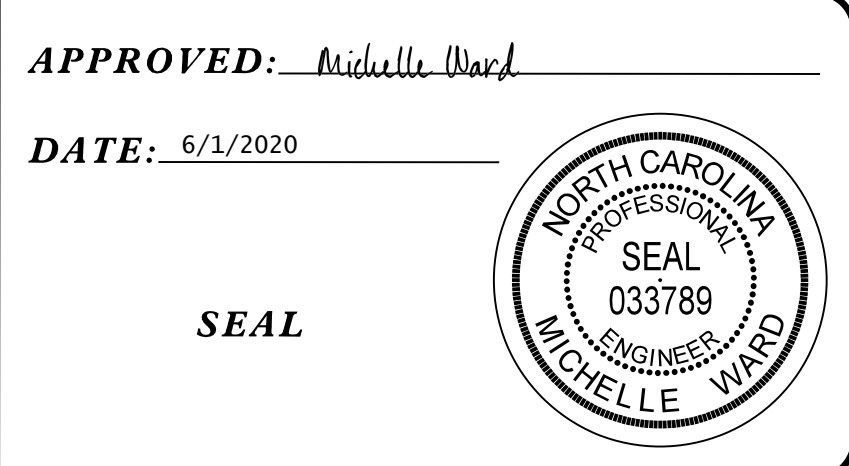
PLAN PREPARED BY:
HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900, Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

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APPROVED: *Michelle Ward*

DATE: 6/1/2020

SEAL



SHEET NO.
TMP-1
U-5746

TIP PROJECT:



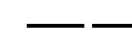

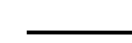
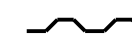
ROADWAY STANDARD DRAWINGS


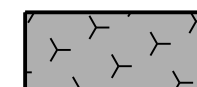

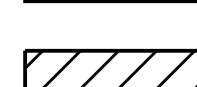

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| STD. NO. | TITLE |
|----------|------------------------------------------------------|
| 1101.01 | WORK ZONE ADVANCE WARNING SIGNS |
| 1101.02 | TEMPORARY LANE CLOSURES |
| 1101.04 | TEMPORARY SHOULDER CLOSURES |
| 1101.05 | WORK ZONE VEHICLE ACCESSES |
| 1101.11 | TRAFFIC CONTROL DESIGN TABLES |
| 1110.01 | STATIONARY WORK ZONE SIGNS |
| 1110.02 | PORTABLE WORK ZONE SIGNS |
| 1115.01 | FLASHING ARROW BOARDS |
| 1130.01 | DRUMS |
| 1135.01 | CONES |
| 1150.01 | FLAGGERS |
| 1165.01 | TRUCK MOUNTED ATTENUATOR |
| 1180.01 | SKINNY-DRUMS |
| 1205.01 | PAVEMENT MARKINGS - LINE TYPES AND OFFSETS |
| 1205.02 | PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS |
| 1205.04 | PAVEMENT MARKINGS - INTERSECTIONS |
| 1205.05 | PAVEMENT MARKINGS - TURN LANES |
| 1205.06 | PAVEMENT MARKINGS - LANE DROPS |
| 1205.07 | PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS |
| 1205.08 | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES |
| 1205.09 | PAVEMENT MARKINGS - PAINTED ISLANDS |
| 1250.01 | RAISED PAVEMENT MARKERS - INSTALLATION SPACING |
| 1251.01 | RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY |






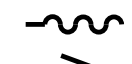
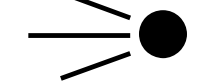


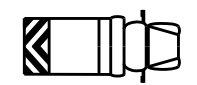

LEGEND

GENERAL




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

-  WORK AREA
-  CONTINUING CONSTRUCTION
-  REMOVAL
-  WEDGING
-  TEMPORARY PAVEMENT




TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN




SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES


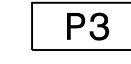
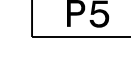

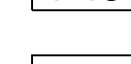

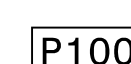

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

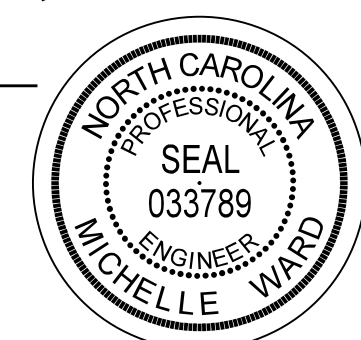
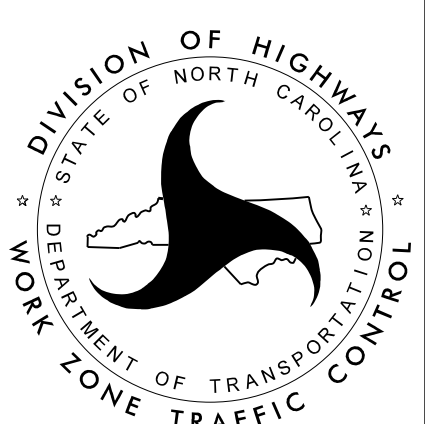
-  PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

-  P1 PAINT 4" WHITE EDGELINE
-  P3 PAINT 4" 10'-30'/SP. WHITE SKIP
-  P5 PAINT 4" 2'-6'/SP. WHITE MINI-SKIP
-  P10 PAINT 4" YELLOW EDGELINE
-  P43 PAINT 8" WHITE SOLID LANE LINE
-  P44 PAINT 8" 3'-9'/SP. WHITE MINI-SKIP
-  P71 PAINT RIGHT TURN ARROW
-  P100 PAINT ALPHANUMERIC CHARACTER

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| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|
| APPROVED: <u>Michelle Ward</u> DATE: <u>5/23/2024</u>  |  | ROADWAY STANDARD DRAWINGS & LEGEND |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |

MANAGEMENT STRATEGIES

DURING PHASE 1, STEP 1, TRAFFIC IS MAINTAINED IN THE EXISTING TRAFFIC PATTERNS. PEDESTRIANS WILL BE MAINTAINED ON THE LEFT SIDE OF US 401. USING LANE CLOSURES, WIDENING IS COMPLETED ON THE RIGHT SIDE OF -L- FROM THE BEGINNING OF THE PROJECT TO THE INTERSECTION WITH GELDER DR, INCLUDING WIDENING ON -Y2- (RED BUD ST).

DURING PHASE 1, STEP 2, NEW OUTSIDE LANE ON NB US 401 IS OPENED TO THE FINAL PATTERN FROM THE BEGINNING OF THE PROJECT TO THE INTERSECTION OF TEN-TEN RD. ALL OTHER TRAFFIC IS MAINTAINED IN THE EXISTING TRAFFIC PATTERNS. PEDESTRIANS WILL BE MAINTAINED ON THE RIGHT SIDE OF US 401. USING LANE CLOSURES, WIDENING ON THE LEFT SIDE OF -L- AND GRADING AND PAVING IN THE MEDIAN IS COMPLETED FROM THE BEGINNING OF THE PROJECT TO THE END OF THE PROJECT, INCLUDING WIDENING ON -Y1- (OPPORTUNITY LN), -Y3- (GELDER DR), AND -Y6- (TEN-TEN RD). A TEMPORARY TRAFFIC SIGNAL WILL BE REQUIRED AT THE INTERSECTION OF -L- (US 401) AND -Y6- (TEN-TEN RD) TO MOVE POLE AWAY FROM WIDENING.

DURING PHASE 2, TRAFFIC WILL BE SHIFTED TO THE FINAL PATTERN ON ALL ROADS (EXCEPT FOR DUAL LEFT TURNS -L-/US 401). A TEMPORARY TRAFFIC SIGNAL WILL BE REQUIRED AT THE INTERSECTION OF -L- (US 401) AND -Y6- (TEN-TEN RD). REMAINDER OF MEDIAN WORK WILL BE COMPLETED ON -L- USING LANE CLOSURES.

UPON COMPLETION OF ALL WORK, TRAFFIC IS PLACED IN THE FINAL TRAFFIC PATTERN WITH THE FINAL SIGNAL AT THE INTERSECTION OF -L- (US 401) AND -Y6- (TEN-TEN RD), THEN THE FINAL LAYER OF SURFACE COURSE, INCLUDING OVERLAY ON EXISTING ROAD, AND FINAL MARKINGS WILL BE PLACED AND TRAFFIC RE-OPENED TO THE FINAL PATTERN.

GENERAL 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 UNDESIRE 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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

| ROAD NAME | DAY AND TIME RESTRICTIONS |
|-------------------|---------------------------------------------------------------------------|
| -L- (US 401) | MONDAY THROUGH FRIDAY 5:00 A.M. TO 9:00 P.M. |
| -Y6- (TEN-TEN RD) | MONDAY THROUGH FRIDAY 6:00 A.M. TO 9:00 A.M. 4:00 P.M. TO 7:00 P.M. |

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

- L- (US 401)
- Y6- (TEN-TEN RD)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 5:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

HAULING RESTRICTIONS

C) DO NOT CONDUCT SINGLE AND MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM ANY OPEN TRAVEL LANE WILL NOT BE ALLOWED:

ROAD NAME

- L- (US 401)
- Y6- (TEN-TEN RD)

DAY AND TIME RESTRICTIONS

- MONDAY THROUGH FRIDAY
5:00 A.M. TO 9:00 P.M.
- MONDAY THROUGH FRIDAY
6:00 A.M. TO 9:00 A.M.
4:00 P.M. TO 7:00 P.M.

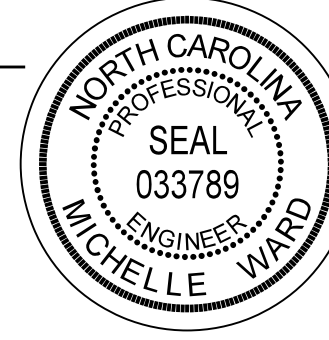
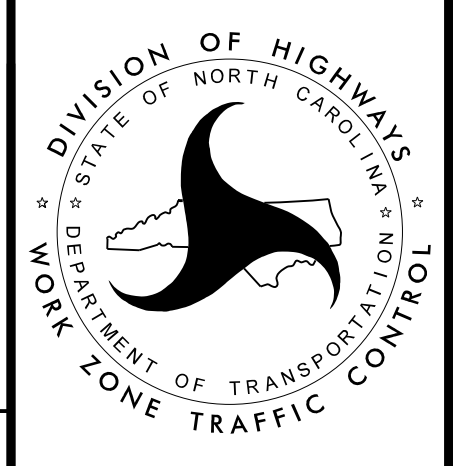
D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) 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.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- G) 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 BARRIER OR GUARDRAIL.
- H) 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.
- I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- J) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON -L- (US 401) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON -L- (US 401).

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| APPROVED: <i>Michelle Ward</i> DATE: 6/1/2020 SEAL  |  | TRANSPORTATION OPERATIONS PLAN |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |

GENERAL NOTES (CONT.)

PAVEMENT EDGE DROP OFF REQUIREMENTS

L) 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.

M) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

O) 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.

P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

R) 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.

S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

| ROAD NAME | MARKING | MARKER |
|-------------------|---------|------------------|
| -L- (US 401) | PAINT | TEMPORARY RAISED |
| -Y6- (TEN-TEN RD) | PAINT | TEMPORARY RAISED |

V) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

Y) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

Z) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

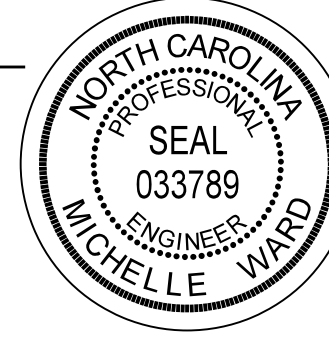
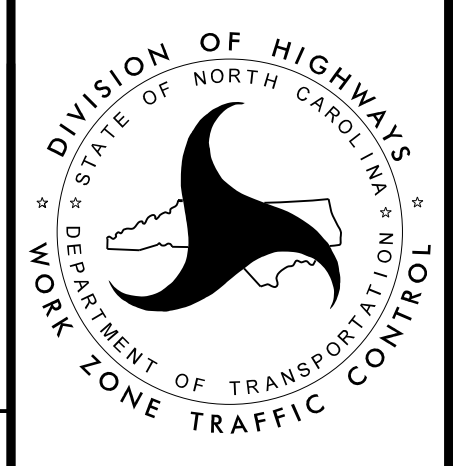
AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME ON -Y1- (OPPORTUNITY LN) OR -Y2- (RED BUD ST), BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 350 FT AND 700 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.


BB) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

CC) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

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REVISIONS

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------|
| APPROVED: <i>Michelle Ward</i> DATE: 6/1/2020 SEAL  |  | TRANSPORTATION OPERATIONS PLAN |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| U-5746 | TMP-3 |
|  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 | |

NOTES:

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES ACCORDING TO RSD 1101.01, SHEETS 2 & 3 OF 3. FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT USING INCIDENTAL STONE AS NEEDED, UNLESS OTHERWISE NOTED IN THE PHASING OR AS DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE.

WHEN PHASING STATES TO USE LANE CLOSURES, REFER TO THE FOLLOWING FOR ALL EXISTING AND PROPOSED ROADS:

- ALL TWO-LANE/TWO-WAY FACILITIES - SEE RSD 1101.02, SHEET 1 OF 14
- ALL 3-LANE OR 5-LANE ROADWAYS - SEE RSD 1101.02, SHEET 2 OF 14
- ALL MULTI-LANE FACILITIES POSTED < 60 MPH - SEE RSD 1101.02, SHEET 3 OF 14

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO EXISTING AND/OR CURRENT TEMPORARY TRAFFIC PATTERN UPON ACTIVITIES COMPLETION, UNLESS OTHERWISE NOTED IN THE PHASING.

WHEN INSTALLING AND ACTIVATING TEMPORARY AND FINAL SIGNALS, USE LANE CLOSURES (RSD 1101.02, SHEETS 1 & 3) AND LAW ENFORCEMENT.

COMPLETE PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNTIL STATED TO PLACE FINAL LAYER IN THE PHASING.

PHASE 1 (TMP-4 THRU TMP-8)

STEP 1 (TMP-4 THRU TMP-5):

NOTE: DURING STEP 1, TRAFFIC WILL BE MAINTAINED IN THE EXISTING PATTERN AND PEDESTRIANS WILL BE MAINTAINED ON THE LEFT SIDE OF -L- (US 401).

USING LANE CLOSURES, COMPLETE CONSTRUCTION OF THE FOLLOWING:

- RIGHT SIDE OF -L- FROM PROJECT BEGIN TO GELDER DR, INCLUDING -Y2- (RED BUD ST)

ONCE COMPLETE, USING LANE CLOSURES, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) AND SHIFT TRAFFIC TO THE PHASE 1, STEP 2 TRAFFIC PATTERN, WITH TEMPORARY SIGNAL #05-0184T1 AT THE -Y6- (TEN-TEN RD) INTERSECTION.

STEP 2 (TMP-6 THRU TMP-8):

NOTES:

1. DURING PHASE 1, STEP 2, PEDESTRIANS WILL BE MAINTAINED ON THE RIGHT SIDE OF -L- (US 401) ON NEW AND EXISTING SIDEWALKS.
2. DURING PHASE 1, STEP 2, THE FOLLOWING TEMPORARY SIGNAL WILL BE NEEDED FOR ROADWAY WIDENING:

#05-0184T1 AT THE -Y6- (TEN-TEN RD) INTERSECTION

USING LANE CLOSURES, COMPLETE CONSTRUCTION OF THE FOLLOWING:

- LEFT SIDE OF -L- FROM PROJECT BEGIN TO PROJECT END, INCLUDING -Y1- (OPPORTUNITY LN) AND -Y3- (GELDER DR)
- MEDIAN OF -L- FROM PROJECT BEGIN TO PROJECT END (GRADING & PAVING ONLY)
- RIGHT SIDE OF -Y6- (TEN-TEN RD) FROM STA. 18+96 +/- TO -L- (US 401)

ONCE COMPLETE, USING LANE CLOSURES, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) AND SHIFT TRAFFIC TO THE PHASE 2 TRAFFIC PATTERN, WITH TEMPORARY SIGNAL #05-0184T2 AT THE -Y6- (TEN-TEN RD) INTERSECTION.

PHASE 2 (TMP-9 THRU TMP-11)

STEP 1:

NOTE: DURING PHASE 2, STEP 1, THE FOLLOWING TEMPORARY SIGNAL WILL BE NEEDED WHEN SHIFTING TO THE PHASE 2 TRAFFIC PATTERN:

#05-0184T2 AT THE -Y6- (TEN-TEN RD) INTERSECTION

USING LANE CLOSURES CONSTRUCT ALL REMAINING MEDIAN WORK ON -L- FROM STA. 32+27 +/- TO STA. 45+78 +/-.

ONCE COMPLETE, USING LANE CLOSURES, PLACE REMAINING TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) IN THE FINAL PATTERN ACCORDING TO THE PAVEMENT MARKING PLAN AND SHIFT TRAFFIC TO THE FINAL TRAFFIC PATTERN, WITH FINAL SIGNAL #05-0184 AT THE -Y6- (TEN-TEN RD) INTERSECTION.

STEP 2:

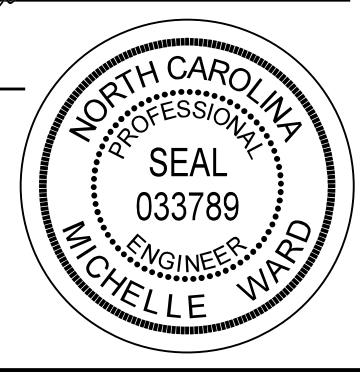
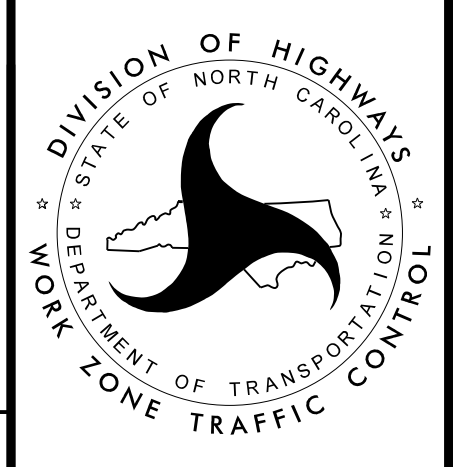
USING LANE CLOSURES, PLACE THE FINAL LAYER OF SURFACE COURSE, INCLUDING OVERLAY ON EXISTING ROADS, AND FINAL PAVEMENT MARKINGS AND MARKERS ACCORDING TO THE PAVEMENT MARKING PLAN AND OPEN -L- AND ALL -Y- LINES TO THE FINAL TRAFFIC PATTERN.

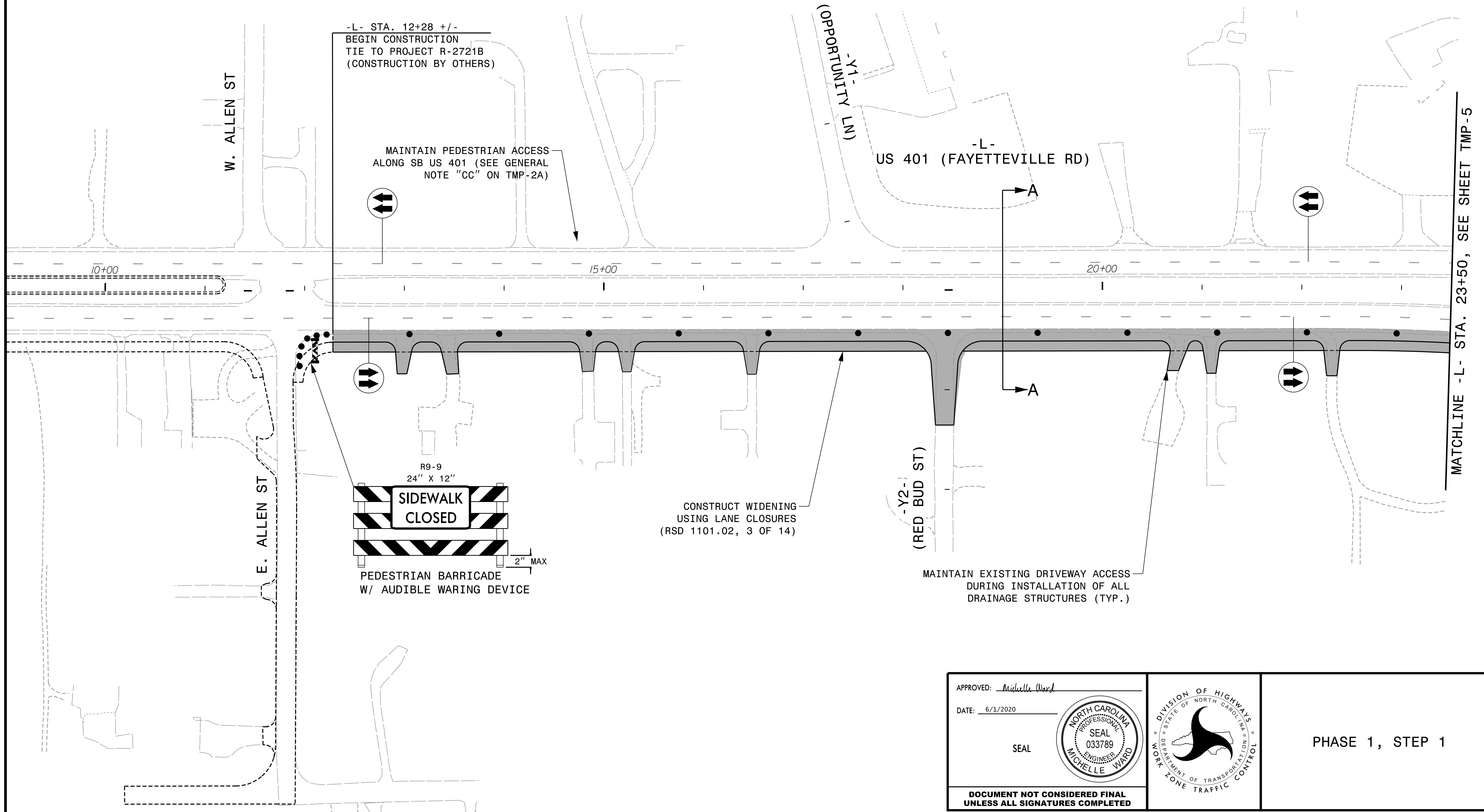
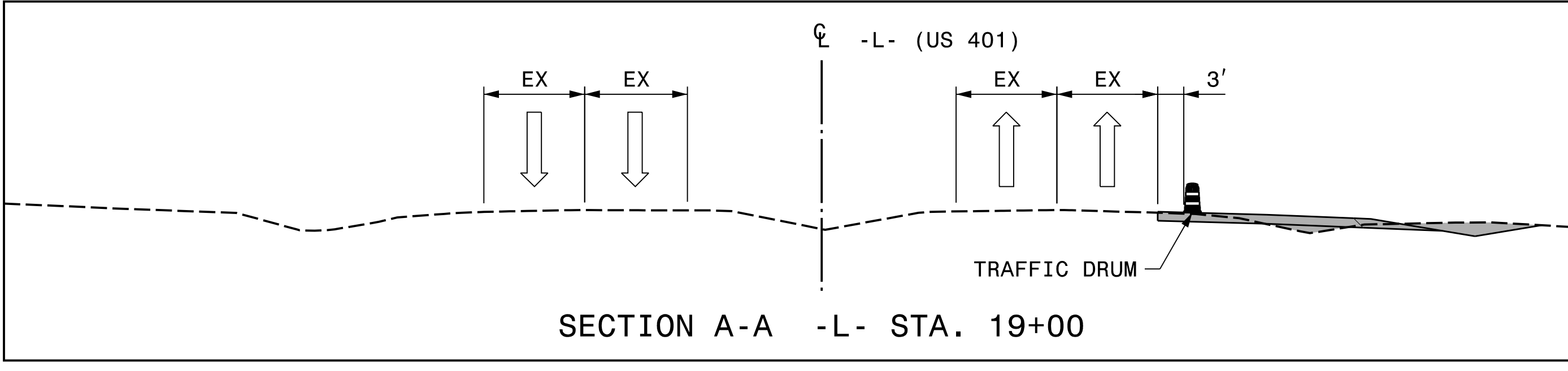
STEP 3:

REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

REVISIONS

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| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| APPROVED: <i>Michelle Ward</i> DATE: 6/1/2020 SEAL  |  | TEMPORARY TRAFFIC CONTROL PHASING |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |



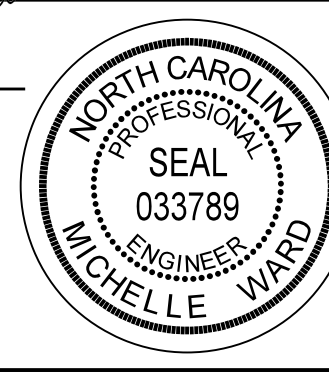
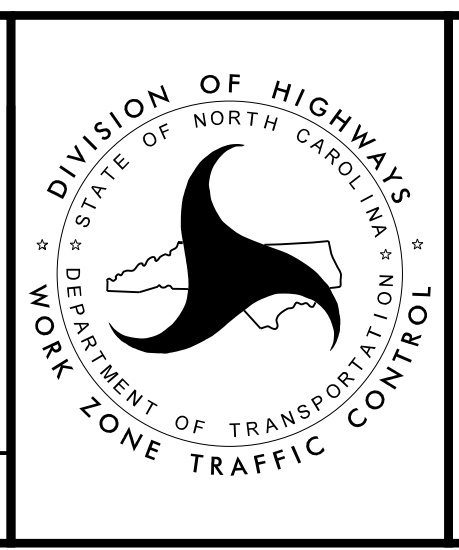
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REVISIONS

APPROVED: *Michelle Ward*

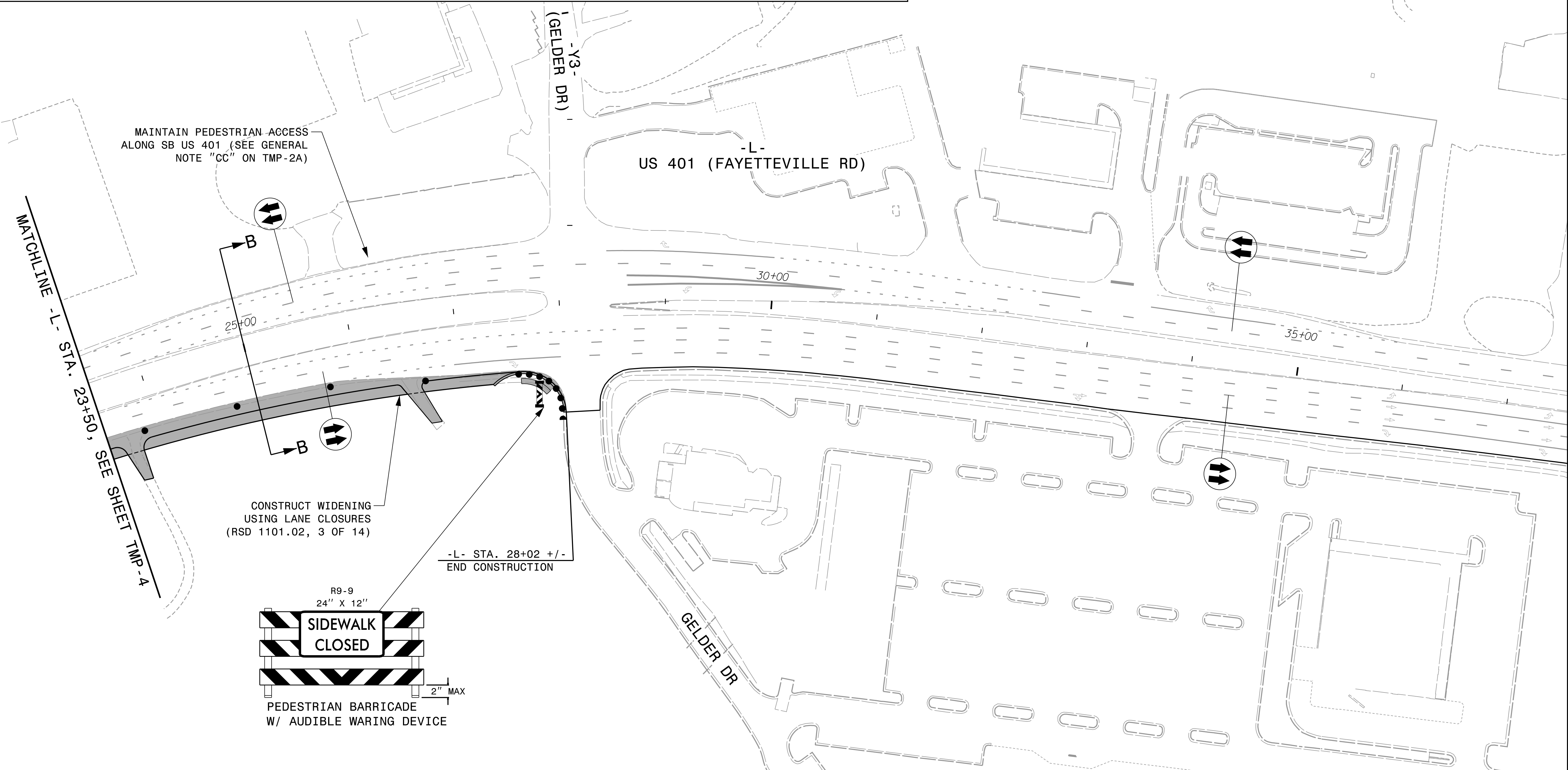
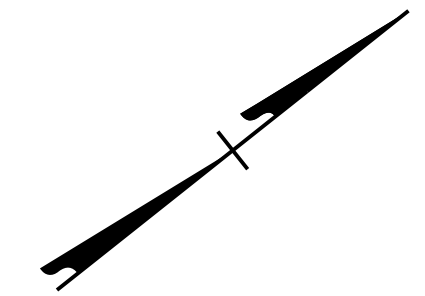
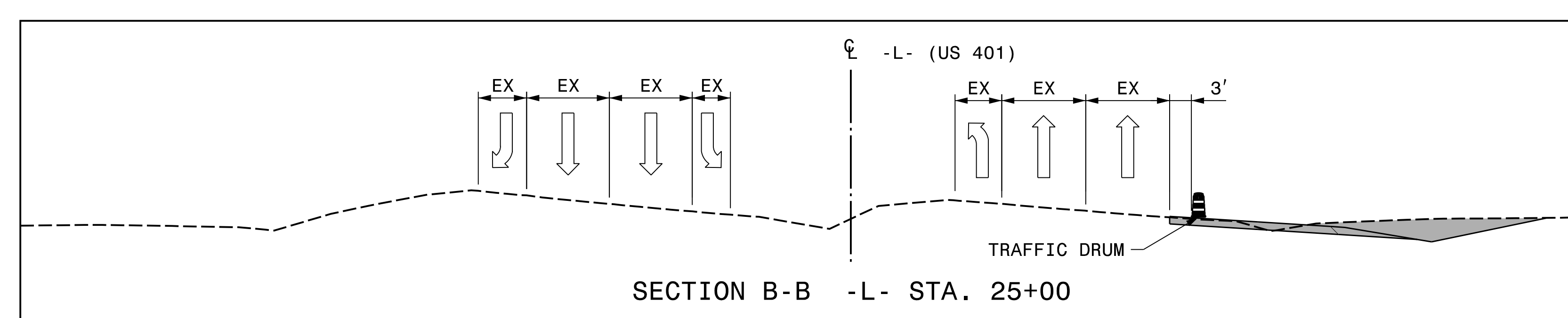
DATE: 6/1/2020

SEAL

PHASE 1, STEP 1

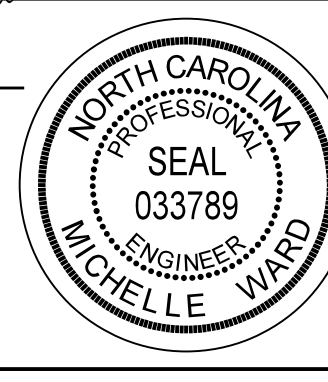
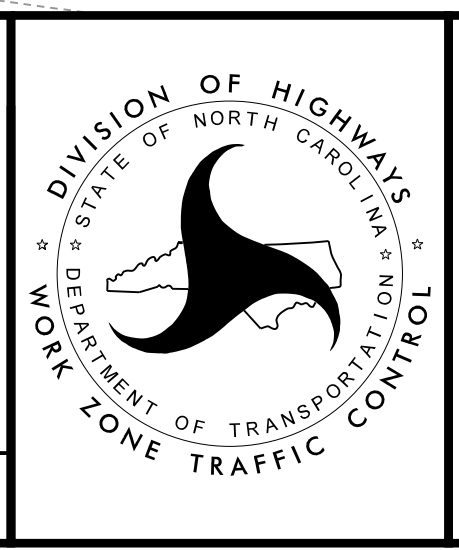
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UNLESS ALL SIGNATURES COMPLETED



APPROVED: *Michelle Ward*

DATE: 6/1/2020

SEAL





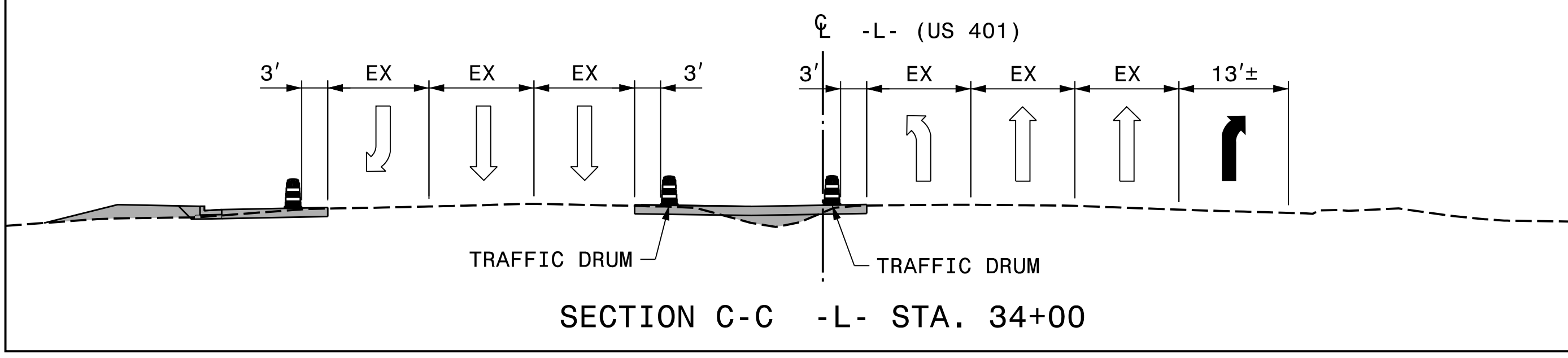
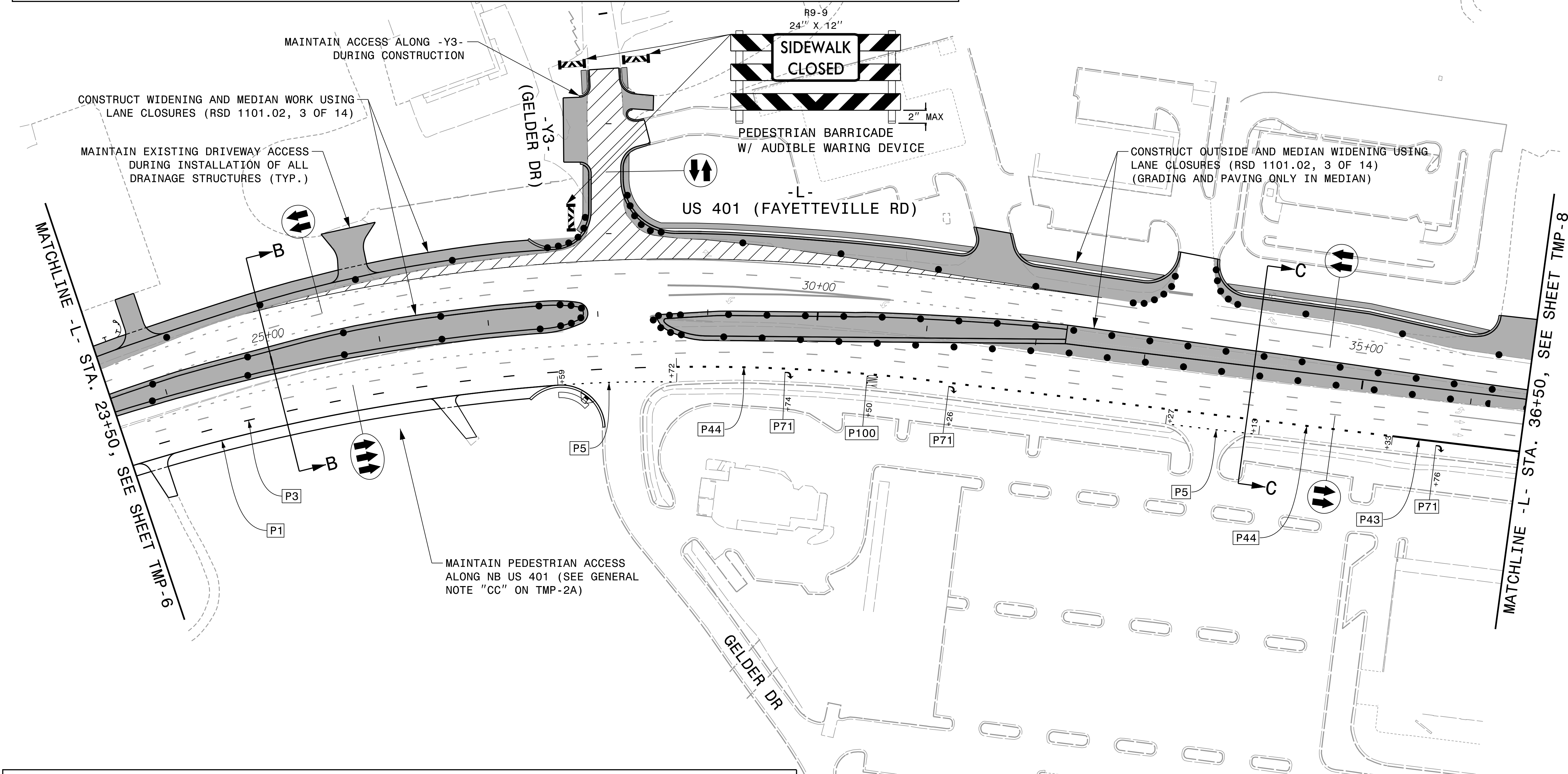
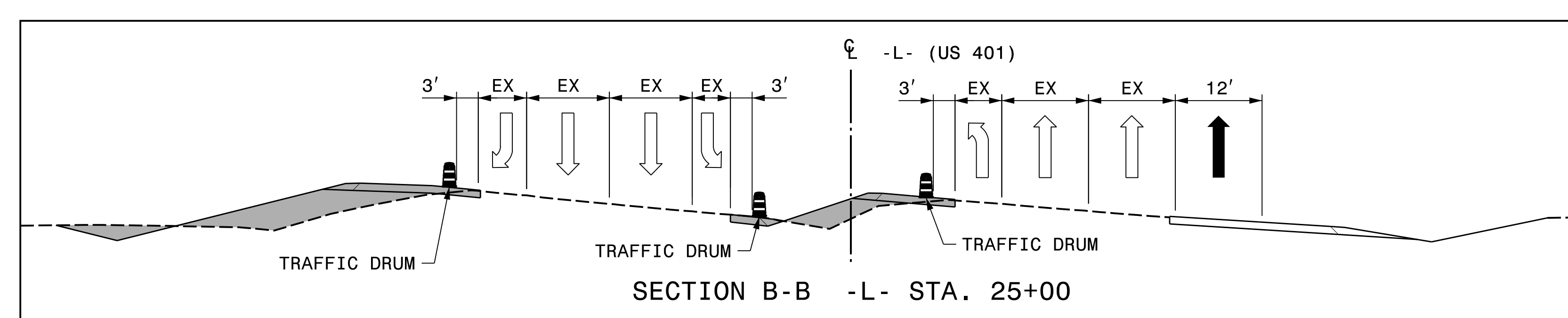
PHASE 1, STEP 1

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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REVISIONS

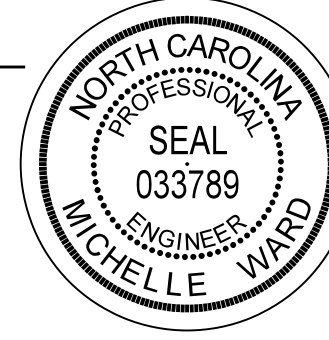
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| PROJ. REFERENCE NO. | SHEET NO. |
| U-5746 | TMP-7 |
|  HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116 | |



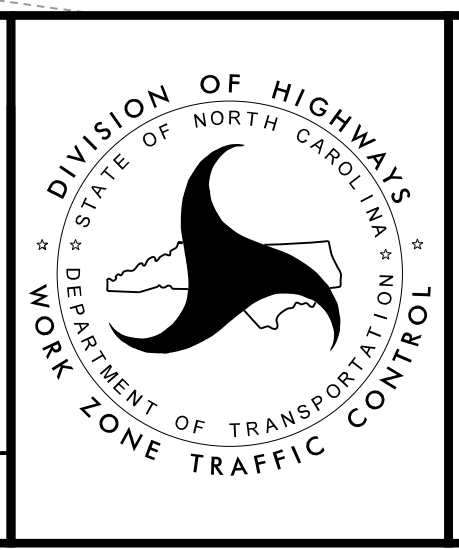
APPROVED: *Michelle Ward*

DATE: 10/28/2020

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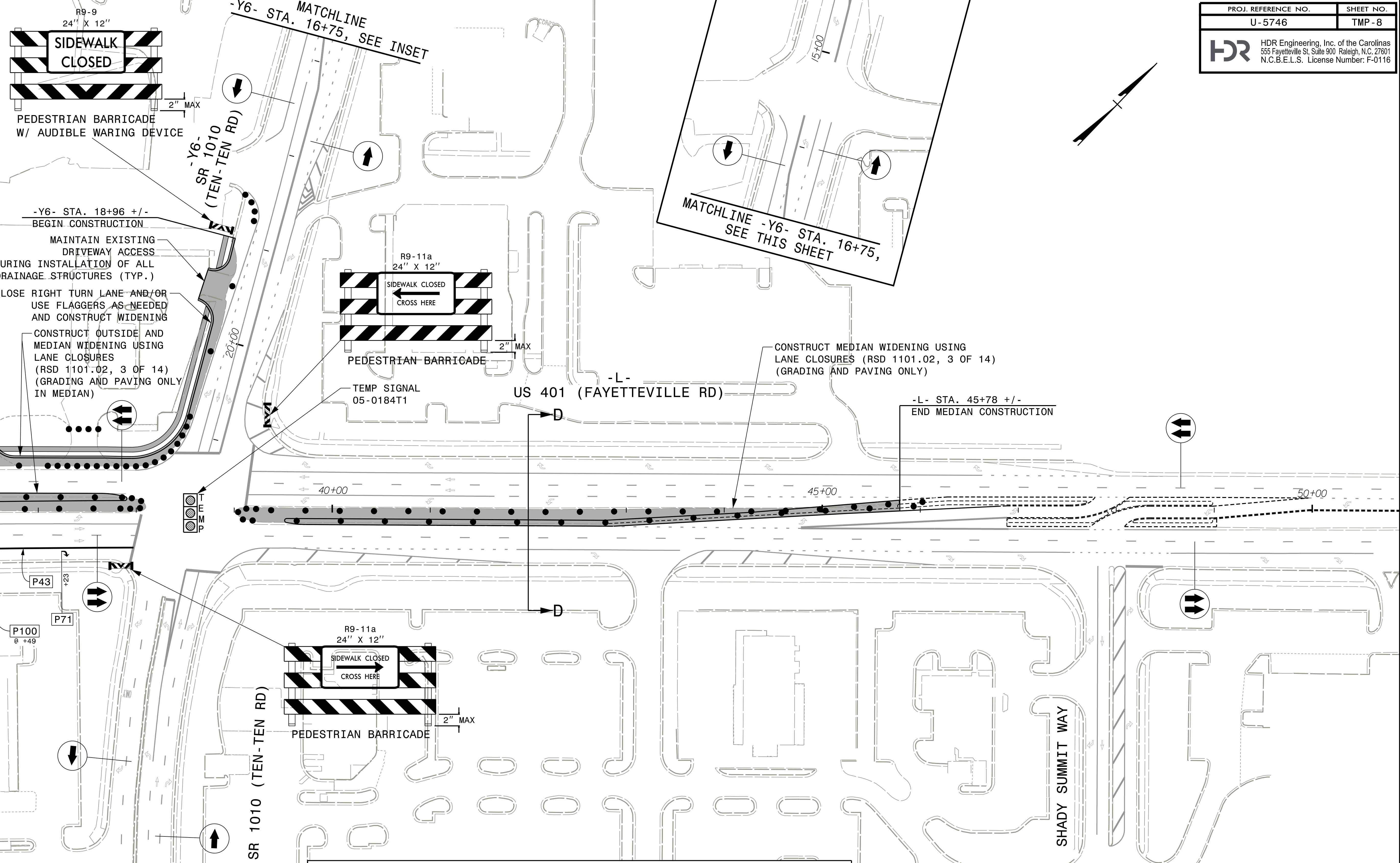
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UNLESS ALL SIGNATURES COMPLETED



PHASE 1, STEP 2

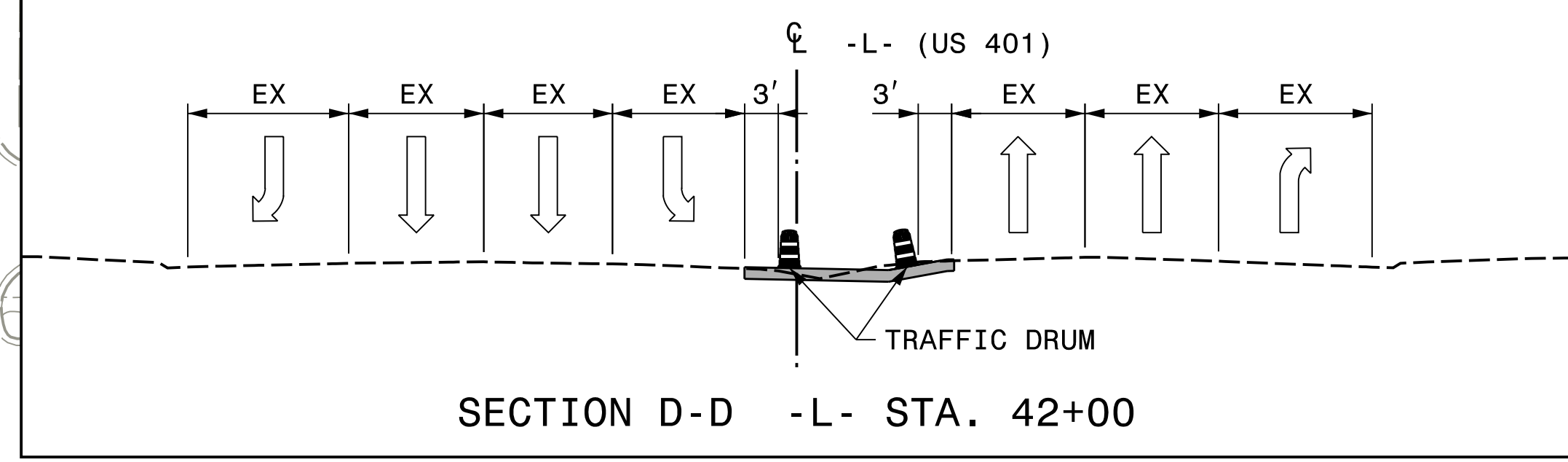
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REVISIONS



MATCHLINE -L- STA. 36+50, SEE SHEET TMP-7

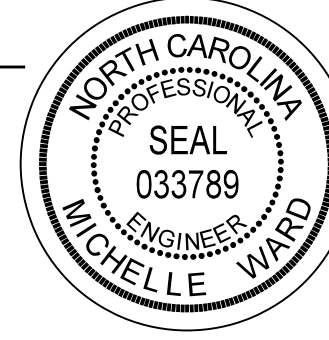
MATCHLINE -Y6- STA. 16+75, SEE THIS SHEET



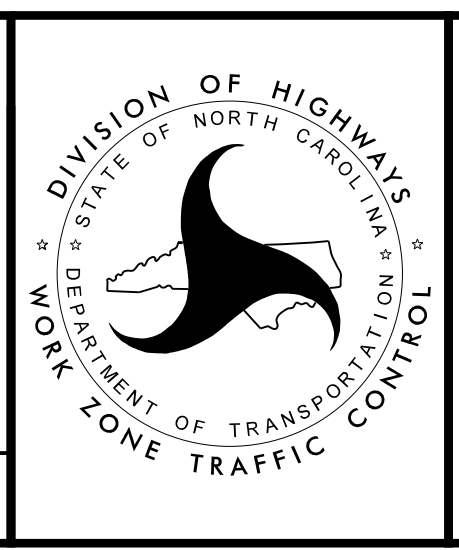
APPROVED: *Michelle Ward*

DATE: 5/23/2024

SEAL




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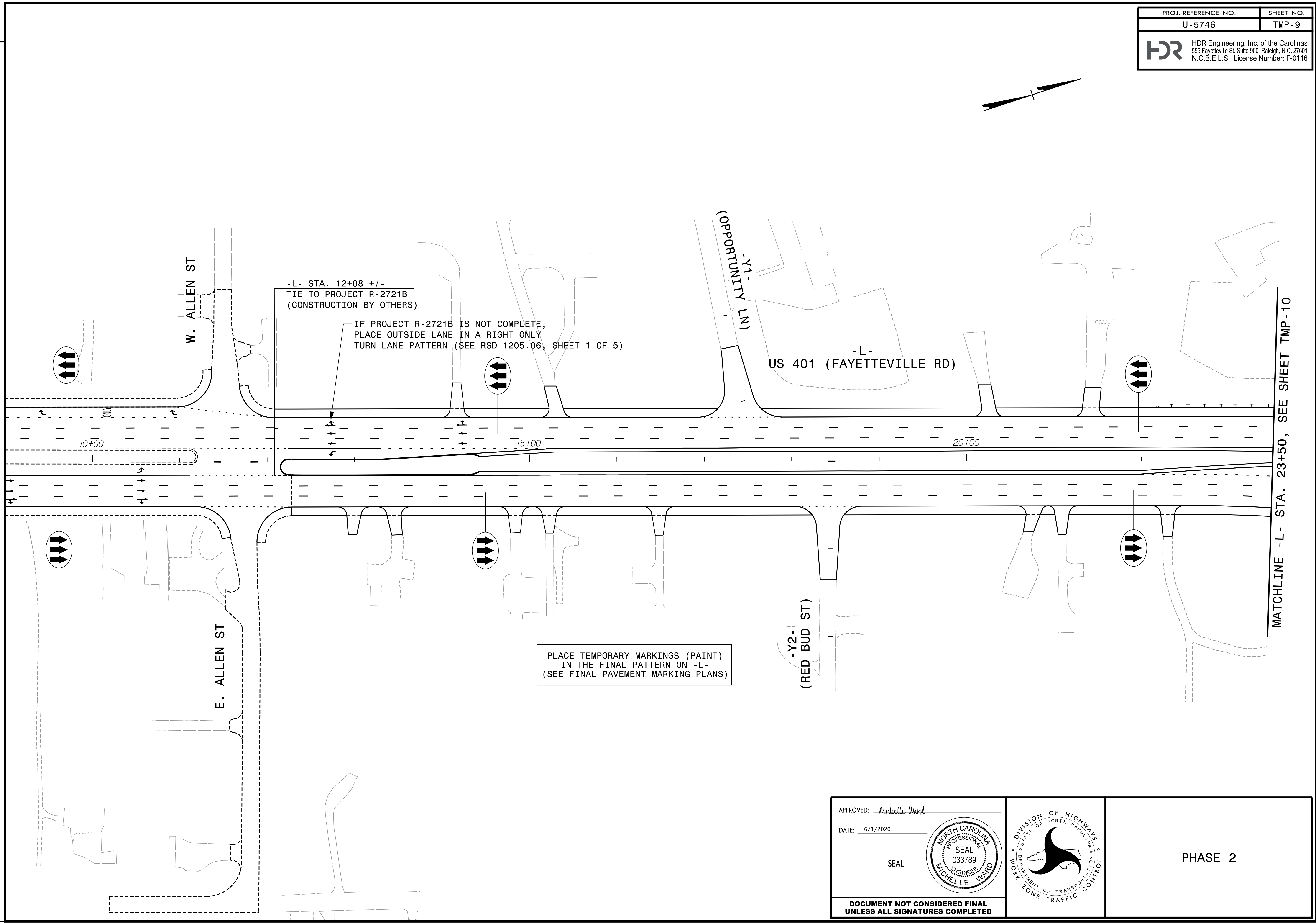
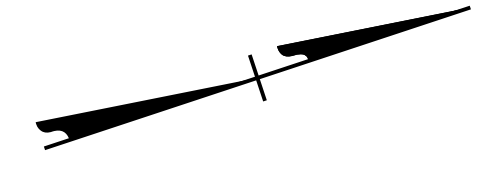


PHASE 1, STEP 2

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REVISIONS

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| PROJ. REFERENCE NO. | SHEET NO. |
| U-5746 | TMP-9 |
|  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 | |



-L- STA. 12+08 +/-
 TIE TO PROJECT R-2721B
 (CONSTRUCTION BY OTHERS)

IF PROJECT R-2721B IS NOT COMPLETE,
 PLACE OUTSIDE LANE IN A RIGHT ONLY
 TURN LANE PATTERN (SEE RSD 1205.06, SHEET 1 OF 5)

PLACE TEMPORARY MARKINGS (PAINT)
 IN THE FINAL PATTERN ON -L-
 (SEE FINAL PAVEMENT MARKING PLANS)

MATCHLINE -L- STA. 23+50, SEE SHEET TMP-10

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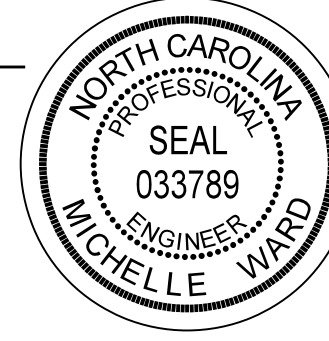
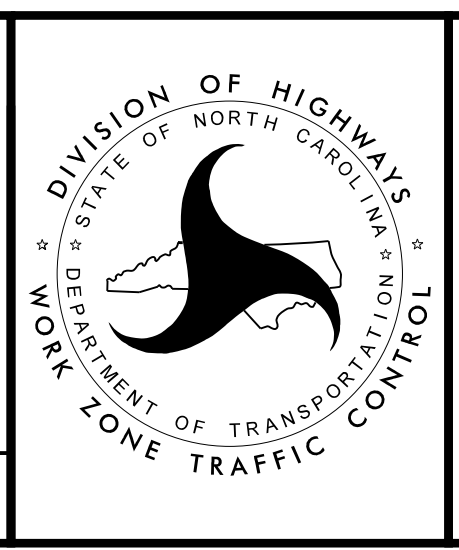
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REVISIONS

APPROVED: *Michelle Ward*

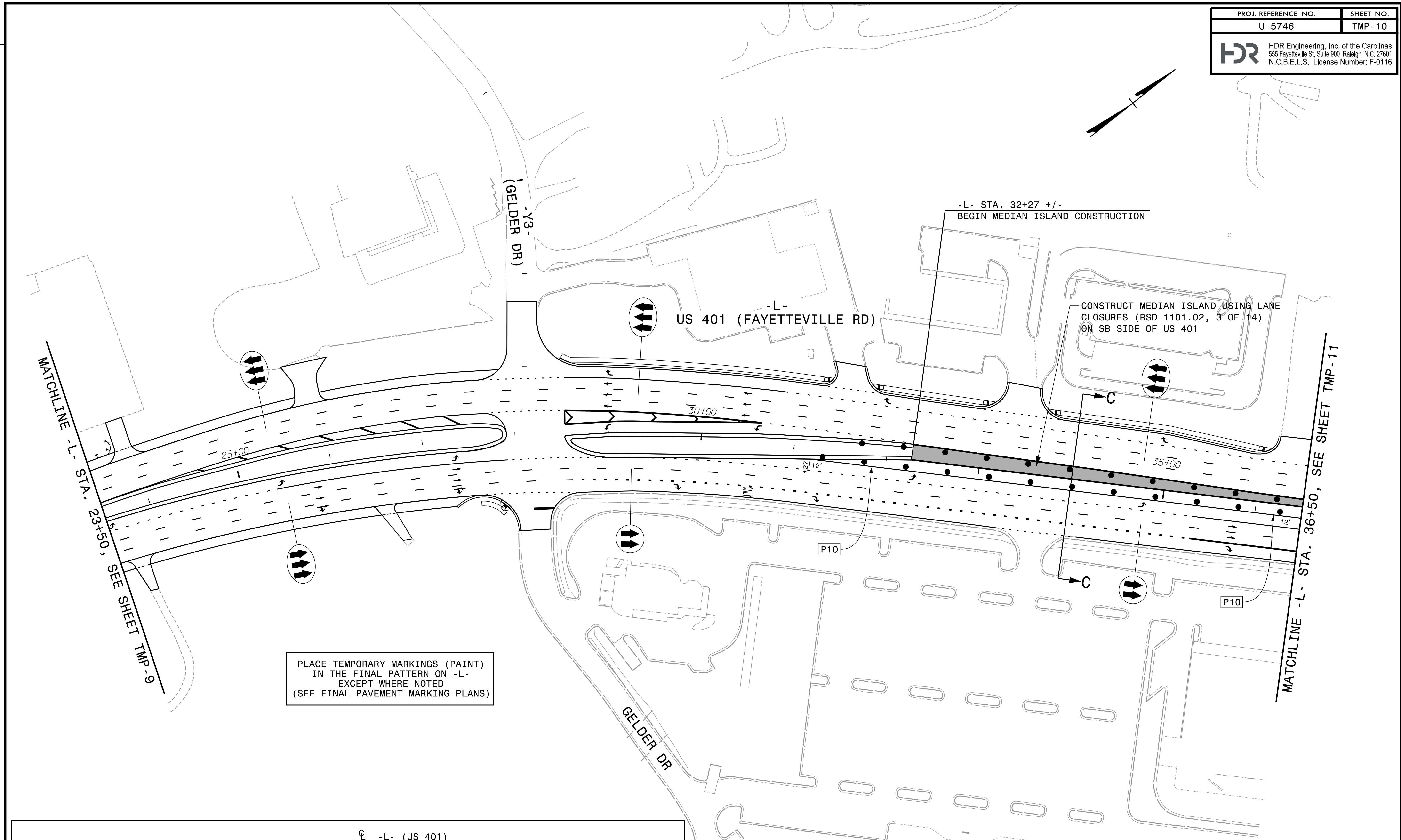
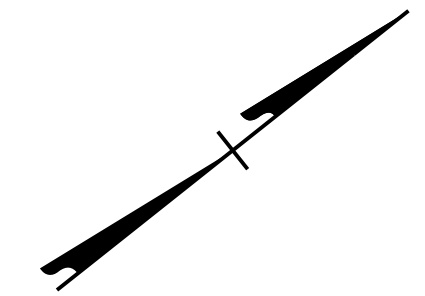
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SEAL

PHASE 2

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



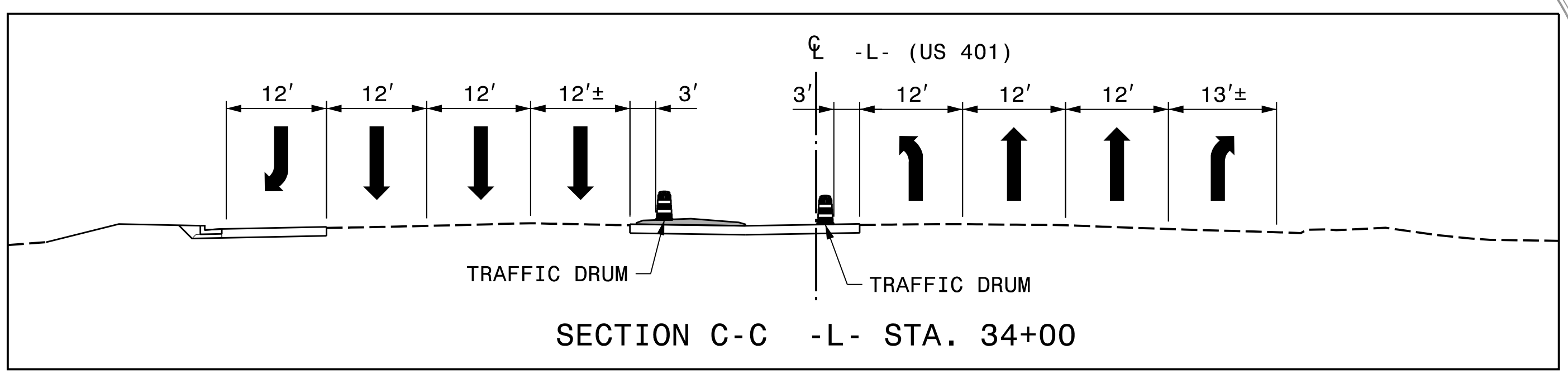
MATCHLINE -L- STA. 23+50, SEE SHEET TMP-9

MATCHLINE -L- STA. 36+50, SEE SHEET TMP-11

-L- STA. 32+27 +/-
BEGIN MEDIAN ISLAND CONSTRUCTION

CONSTRUCT MEDIAN ISLAND USING LANE CLOSURES (RSD 1101.02, 3 OF 14) ON SB SIDE OF US 401

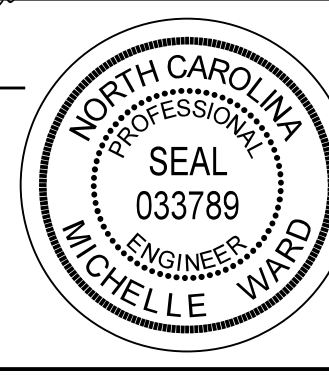
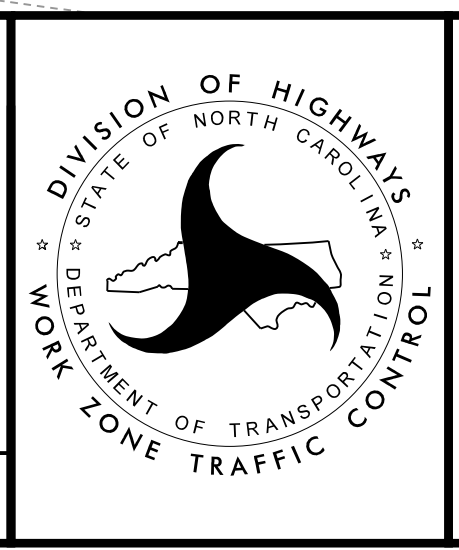
PLACE TEMPORARY MARKINGS (PAINT) IN THE FINAL PATTERN ON -L- EXCEPT WHERE NOTED (SEE FINAL PAVEMENT MARKING PLANS)



APPROVED: *Michelle Ward*

DATE: 6/1/2020

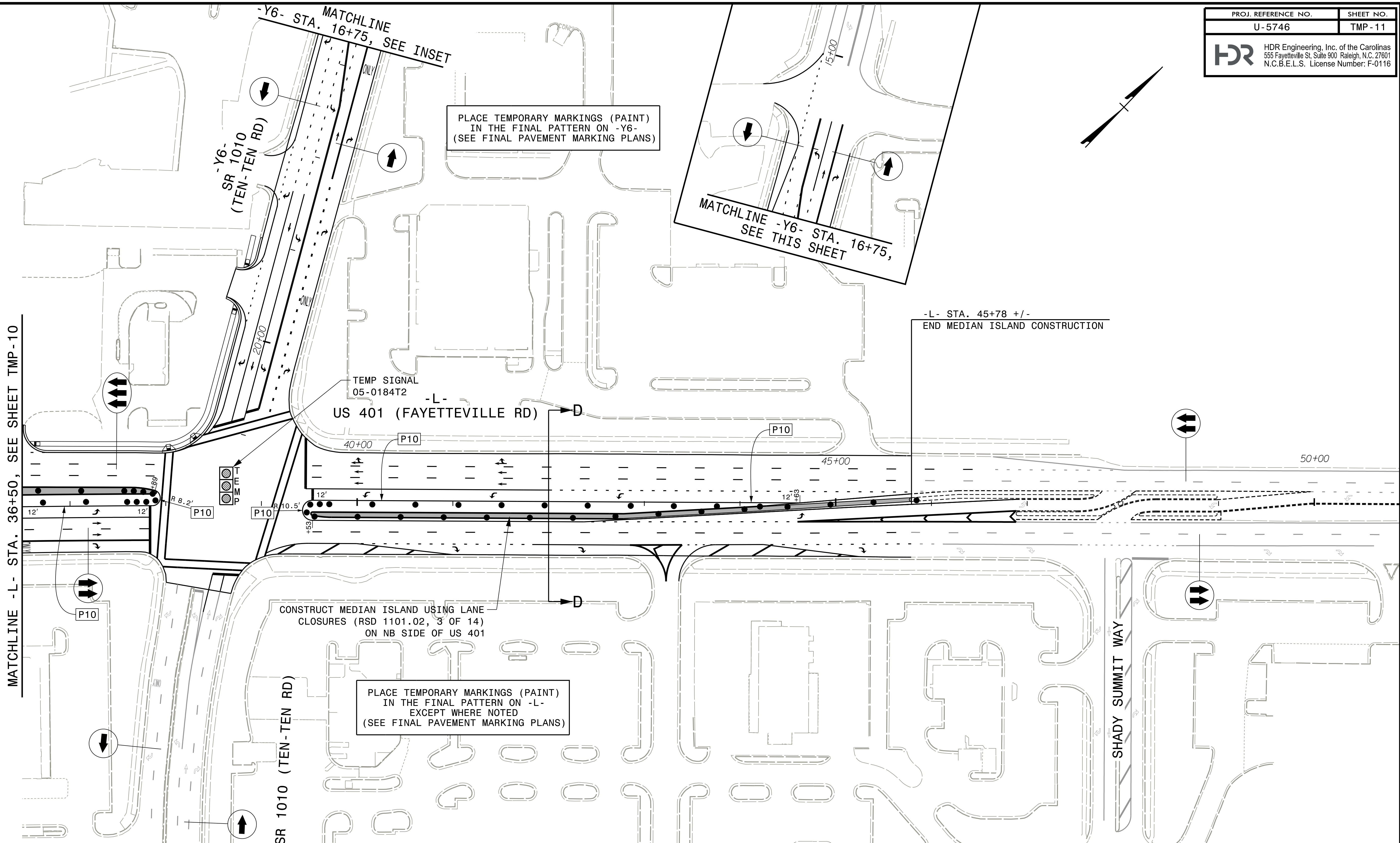
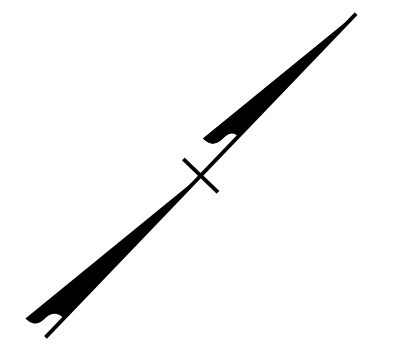
SEAL

PHASE 2

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REVISIONS



MATCHLINE -L- STA. 36+50, SEE SHEET TMP-10

MATCHLINE -Y6- STA. 16+75, SEE INSET

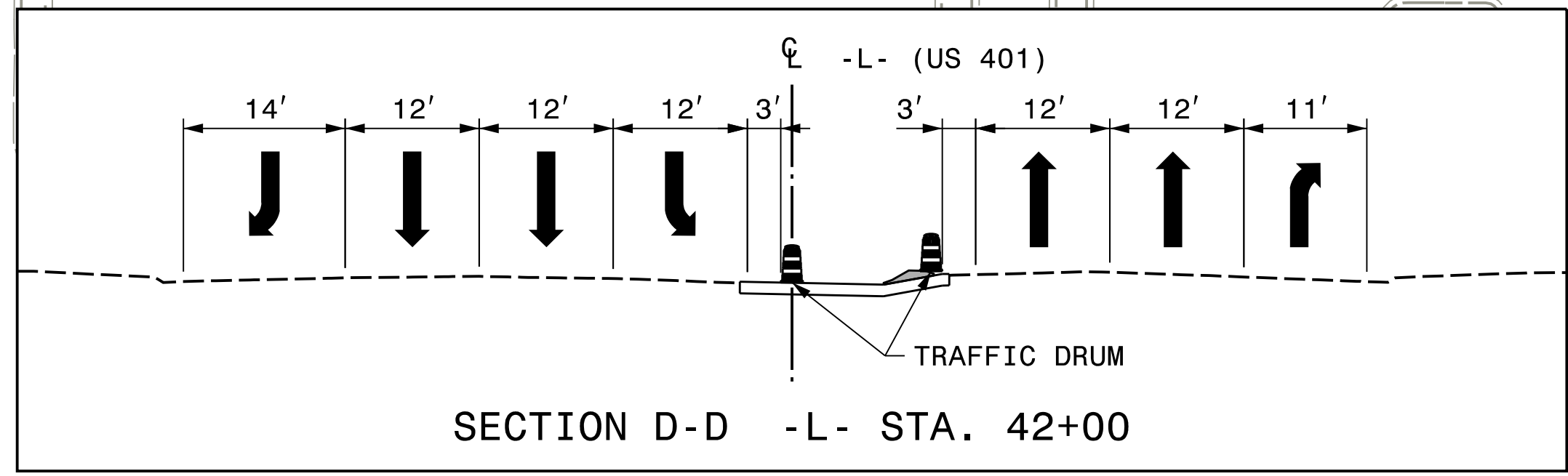
MATCHLINE -Y6- STA. 16+75, SEE THIS SHEET

-L- STA. 45+78 +/-
END MEDIAN ISLAND CONSTRUCTION

PLACE TEMPORARY MARKINGS (PAINT)
IN THE FINAL PATTERN ON -Y6-
(SEE FINAL PAVEMENT MARKING PLANS)

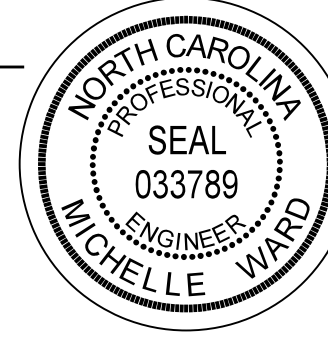
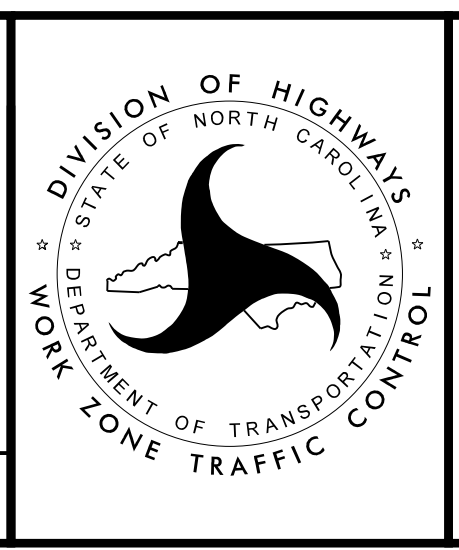
PLACE TEMPORARY MARKINGS (PAINT)
IN THE FINAL PATTERN ON -L-
EXCEPT WHERE NOTED
(SEE FINAL PAVEMENT MARKING PLANS)

CONSTRUCT MEDIAN ISLAND USING LANE
CLOSURES (RSD 1101.02, 3 OF 14)
ON NB SIDE OF US 401



APPROVED: *Michelle Ward*
DATE: 5/23/2024

SEAL

PHASE 2

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 USER: CHARNDEN
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REVISIONS