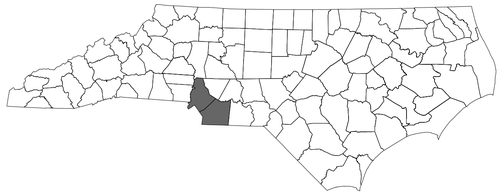
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MECKLENBURG AND UNION COUNTY

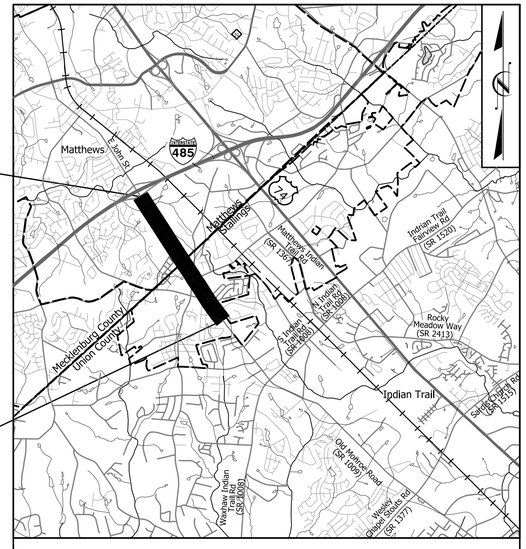


LOCATION: SR 1009 (E. JOHN STREET\OLD MONROE ROAD)
FROM EAST OF I–485 INTERCHANGE TO
WEST OF MORNINGSIDE MEADOW LANE

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND SIGNALS.

BEGIN PROJECT
STA. 96 + 20 +/– –L–

END PROJECT
STA. 193 + 50 +/– –L–



VICINITY MAP



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

PLANS PREPARED BY:

TIM AREY, PE
TRAFFIC ENGINEER

LARRY ASHLEY
TRANSPORTATION DESIGNER

NCDOT CONTACTS:

BRYAN C. KEY, PE
TEAM LEAD

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

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-2A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2B & 2C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2D	GUARDRAIL ANCHOR UNIT TYPE B-77
TMP-3	TRANSPORTATION MANAGEMENT PLANS PHASING
TMP-4 THRU TMP-10	TRANSPORTATION MANAGEMENT PLANS PHASE I DETAILS
TMP-11 THRU TMP-16	TRANSPORTATION MANAGEMENT PLANS PHASE II DETAILS
TMP-17 THRU TMP-21	TRANSPORTATION MANAGEMENT PLANS PHASE III DETAILS
TMP-22 THRU TMP-24	TRANSPORTATION MANAGEMENT PLANS PHASE IIIA DETAIL
TMP-25 THRU TMP-31	TRANSPORTATION MANAGEMENT PLANS PHASE IV DETAILS

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stv
STV Engineers, Inc.
2151 Hawkins St, Suite 1400
Charlotte, NC, 28203
NC License Number F-0991

APPROVED: Signed by: Tim Arey 1C0CE83D1DC4B437...

DATE: 10/19/2026

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

SHEET NO.
TMP-1

U-4714AC

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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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD 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
1145.01	BARRICADES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE 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
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS- PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS
1267.01	FLEXIBLE DELINEATORS - INSTALLATION

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
- WEDGING
- ON-GOING CONSTRUCTION
- TEMPORARY PAVEMENT

SIGNALS

EXISTING PROPOSED TEMP

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

DRAINAGE

PROPOSED PIPE CONSTRUCTION

PREVIOUSLY CONSTRUCTED PIPE

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- PEDESTRIAN BARRICADE (TYPE I)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- PORTABLE CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- TEMPORARY CRASH CUSHION (NON-GATING)
- 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 4"

P1	WHITE EDGE LINE
P2	WHITE SOLID LANE LINE
P3	10 FT. WHITE SKIP
P4	3 FT. - 9 FT. SP WHITE MINISKIP
P5	2 FT. - 6 FT. SP WHITE MINISKIP
P10	YELLOW EDGE LINE
P11	YELLOW SINGLE CENTER
P12	10 FT. YELLOW SKIP
P13	YELLOW DOUBLE CENTER
P14	2 FT. - 6 FT. SP YELLOW MINISKIP

PAINT 8"

P40	WHITE GORELINE
P41	WHITE DIAGONAL
P42	YELLOW DIAGONAL
P46	WHITE CROSSWALK LINE

PAINT 24"

P61	WHITE STOPBAR

PAINT MARKING SYMBOLS

P70	LEFT TURN ARROW
P71	RIGHT TURN ARROW
P72	STRAIGHT ARROW
P74	COMBO. RIGHT / STRAIGHT
P75	COMBO. LEFT / RIGHT
P77	U-TURN ARROW
P79	MERGE ARROW
P103	24" YIELD LINE TRIANGLE

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

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

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ROADWAY STANDARD DRAWINGS & LEGEND

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PROJ. REFERENCE NO.	SHEET NO.
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MANAGEMENT STRATEGIES

CONSTRUCTION

WIDEN EXISTING SR-1009 (OLD MONROE ROAD) TO A FOUR- LANE DIVIDED FACILITY WITH CENTER MEDIAN U- TURNS AT REDUCED CONFLICT INTERSECTIONS. INSTALL CURB AND GUTTER ALONG WITH CONTINUOUS SIDEWALKS THROUGHOUT THE PROJECT CORRIDOR

TMP PARAMETERS

CONSTRUCT AS MUCH AS POSSIBLE AWAY FROM TRAFFIC. NIGHTTIME WORK WILL BE REQUIRED FOR TEMPORARY LANE CLOSURES ALONG SR 1009 (OLD MONROE ROAD).

TRAFFIC MANAGEMENT

LANE SHIFTS AND TEMPORARY LANE CLOSURES

SHOULDER CLOSURES

NIGHT WORK

PEAK HOUR LANE CLOSURE RESTRICTIONS FOR TRAVEL

PEDESTRIAN / BICYCLE ACCOMMODATIONS

WORK ZONE SAFTEY & MOBILITY

TEMPORARY PEDESTRIAN DETOURS TO MAINTAIN EXISTING ACCESS DURING CONSTRUCTION OF PROPOSED SIDEWALKS

TEMPORARY TRAFFIC SIGNALS

CORRIDOR / NETWORK MANAGEMENT

STREET & INTERSECTION IMPROVEMENTS

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 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.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
(-L-) E. JOHN ST./OLD MONROE RD.	MONDAY THRU FRIDAY: 6:00 A.M. - 9:00 P.M.
(-Y2-) STALLINGS RD.	SATURDAY AND SUNDAY: 9:00 A.M. - 9:00 P.M.
(-Y2A-) POTTER RD.	

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

ROAD NAME	DAY AND TIME RESTRICTIONS
(-Y1-) CAMPUS RIDGE RD.	MONDAY THRU FRIDAY 6:00 A.M. - 9:00 A.M.
(-Y1A-)	3:00 P.M. - 7:00 P.M.
(-Y2B-)	
(-Y3-) PLEASANT PLAINS RD.	
(-Y24-) MORNINGWOOD DR.	
(-Y25-) MCKEE RD.	
(-Y26-) FORESTMONT DR.	
(-Y27-) FRIENDSHIP DR.	
(-Y28-) ANN ST.	
(-Y29-) AURORA BLVD.	
(-Y30-) PARKVIEW WAY	
(-Y31-) KERRY GREENS DR.	
(-Y33-) CATAWBA CIR. S	
(-Y34-) RHODERIA DR.	
(-Y35-) SWEETBRIAR DR.	

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

ROAD NAME

ALL ROADS

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 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.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 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 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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 WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

   WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) 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.

K) 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

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

SIGNING

M) 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.

N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS

   AND

   PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

O) CONTRACTOR SHALL COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

   AND

   CONTRACTOR SHALL COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM ARE

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

TRANSPORTATION OPERATIONS PLAN

MANAGEMENT STRATEGIES & GENERAL NOTES

10/19/2026
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TRAFFIC BARRIER

Q) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

R) PROTECT THE APPROACH END OF MOVEABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVEABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVEABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS (SEE ALSO RSD 1101.05)

POSTED SPEED LIMIT (MPH)	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 OR HIGHER	30 FT

S) USE NON-GATING CRASH CUSHIONS AS REQUIRED IN THE TMP.

TRAFFIC CONTROL DEVICES

T) 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.

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

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
-L- E. JOHN ST./ OLD MONROE RD.	PAINT	TEMPORARY RAISED
-Y2- STALLINGS RD.		
-Y2A- PORTER RD.		
ALL OTHER -Y- LINES	PAINT	NONE

X) 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.

Y) TIE THE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES

Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAYS OPERATION.

PAVEMENT MARKINGS AND MARKERS (CONTINUED)

AA) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING OR PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

MISCELLANEOUS

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

CC) 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) 200 FT AND 400 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

DD) 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.

EE) 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.).

FF) MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND ENSURE NO PONDING OF WATER OCCURS IN AN OPEN TRAVEL LANE.

LOCAL NOTES

EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES

NOTIFY THE FIRE DEPARTMENT, EMS,MECKLENBURG AND UNION COUNTY SCHOOLS PRIOR TO ANY MODIFICATION OF TRAFFIC PATTERNS

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APPROVED: Signed by: Tim Arey 1C0CE9D1DC4B437... 10/19/2026

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

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

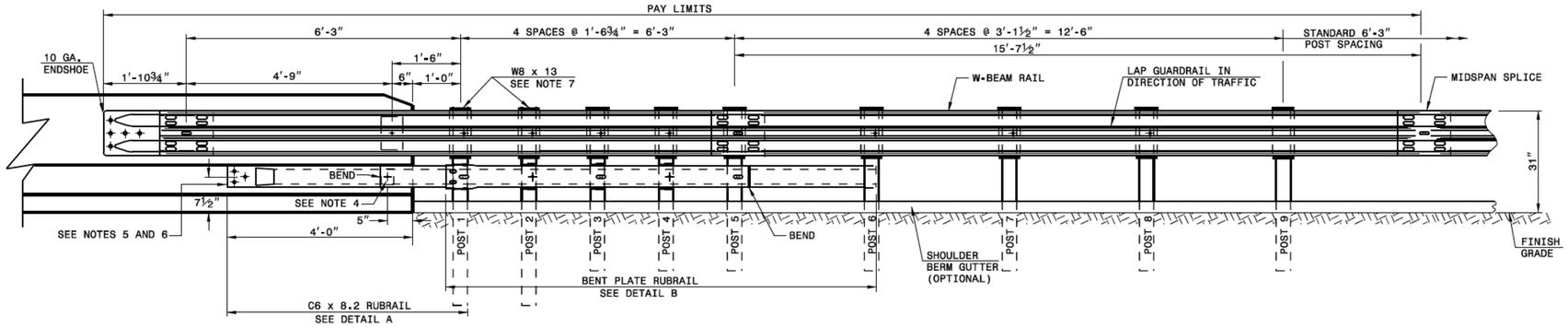
TRANSPORTATION OPERATIONS PLAN

GENERAL NOTES & LOCAL NOTES

9/17/2026
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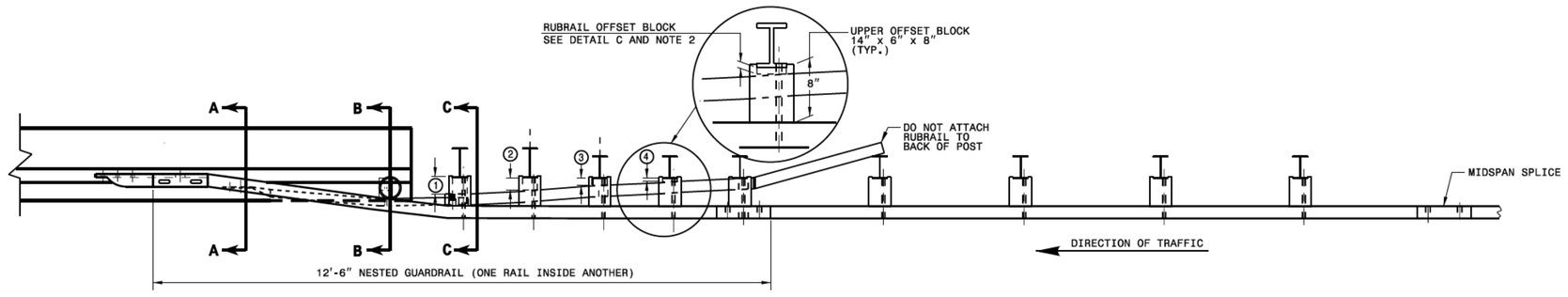
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ELEVATION

GENERAL NOTES:
1) POSTS 1 THROUGH 5 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKOUTS AND/OR RUBRAIL.
2) RUBRAIL BLOCKOUTS LOCATED ON POSTS 1 THROUGH 4 ARE OFFSET DRILLED AND SECURED WITH $\frac{5}{8}$" BUTTONHEAD BOLTS (SEE CHART FOR BOLT LENGTHS). SECURE BLOCKS ONLY TO POSTS 2 AND 4. SECURE RUBRAIL AND BLOCKOUTS TO POSTS 1 AND 3. RUBRAIL IS SECURED TO POST 5 WITH A $\frac{5}{8}$" x 4½" BUTTONHEAD BOLT. RUBRAIL IS FLARED TO BACK OF POST 6 AND NOT SECURED.
3) STEEL SPACER TUBE IS A SCHEDULE 40 GALVANIZED PIPE 6" INSIDE DIAMETER x 9" LONG. ATTACH TUBE TO GUARDRAIL ONLY WITH $\frac{5}{8}$" x 1¼" LONG BUTTONHEAD BOLT AND RECTANGULAR PLATE WASHER.
4) SEE DETAIL D FOR SLOPED RUBRAIL BLOCKOUT. BLOCKOUT IS ATTACHED TO RAIL ELEMENT ONLY. USE $\frac{3}{8}$" x 3" LAG BOLT WITH FLAT WASHER.
5) SHOP FABRICATE THE C6 x 8.2 RUBRAIL END TO BE CONSISTENT WITH THE SLOPE OF THE F SHAPE AND ATTACH FLUSH WITH THE SLOPED TOE OF THE BARRIER OR BRIDGE RAIL.
6) ANCHORAGE:
   (a) AT EXISTING BRIDGE RAIL AND NEW OR EXISTING BARRIERS, ANCHOR RUBRAIL USING THREE $\frac{5}{8}$" x 6" CHEMICALLY ANCHORED BOLTS WITH WASHERS. MAXIMUM PROJECTION FOR BOLTS IS ½".
   (b) AT EXISTING BRIDGE RAIL AND NEW OR EXISTING BARRIERS, ANCHOR THE W-BEAM END SHOE USING A 4 BOLT HOLD DOWN PLATE (SEE STD. DWG. 862.04). A 4 BOLT INSERT ASSEMBLY IS ALLOWED ON PRECAST REINFORCED CONCRETE BARRIER (SEE STD. DWG. 857.01). INSTALL THE W-BEAM END SHOE BEHIND THE NESTED W-BEAM ELEMENTS.
   (c) AT NEW BRIDGE RAIL, ANCHOR THE W-BEAM END SHOE AND RUBRAIL AS DETAILED ON THE STRUCTURE PLANS.
7) POSTS 1 AND 2 ARE W8 x 13, 7'-6" LONG. ALL OTHER POSTS IN THE ANCHOR UNIT ARE W6 x 8.5.



PLAN

GUARDRAIL ANCHOR UNIT TYPE B-77

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

1-24

ROADWAY STANDARD DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT TYPE B-77
FOR F-SHAPE BARRIER

SHEET 4 OF 9
862.03

APPROVED: Signed by: Tim Arey 10DCE9D1DC4B437...
10/19/2026
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY
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DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

GUARDRAIL ANCHOR UNIT TYPE B-77

8/12/2026
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AshleyL

Docusign Envelope ID: 6276BED3-F87B-8618-8062-7FECBEAA015C

PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-3

WRITTEN PHASING

PHASE I

STEP 1: INSTALL WORKZONE ADVANCE WARNING SIGNS IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1101.01, SHEETS 2 & 3 OF 3.

STEP 2: AWAY FROM TRAFFIC, MAY BEGIN CONSTRUCTION ON ALL GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' IN THE LOCATIONS SHOWN ON SHEETS TMP-4 THRU TMP-10. UTILIZE A PEDESTRIAN TRANSPORT SERVICE FOR MAINTAINING PEDESTRIAN MOVEMENTS IN THE LOCATIONS SHOWN ON SHEETS TMP-8 AND TMP-10 WHEN WIDENING OPERATIONS ARE BEING CONSTRUCTED IN THOSE LOCATIONS.

USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1, 2 AND 7 OF 19, COMPLETE THE FOLLOWING:
- WEDGE EXISTING -L- UP TO THE PROPOSED ELEVATION IN THE LOCATIONS AND AS DESCRIBED ON SHEET TMP-4. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- IN THE LOCATIONS SHOWN ON SHEET TMP-4 AND PLACE -L- TRAFFIC INTO THE PATTERN SHOWN ON SHEET TMP-4.

USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19, COMPLETE THE FOLLOWING:
- WEDGE EXISTING -L- UP TO THE PROPOSED ELEVATION IN THE LOCATIONS AND AS DESCRIBED ON SHEET TMP-5. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE WEDGED SECTIONS OF -L- IN THE LOCATIONS SHOWN ON SHEET TMP-5 AND PLACE -L- TRAFFIC INTO THE PATTERN SHOWN ON SHEET TMP-5.
- WEDGE EXISTING -L- AND -Y28- UP TO THE PROPOSED ELEVATION IN THE LOCATIONS SHOWN ON SHEET TMP-7. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE WEDGED SECTIONS OF -L- AND -Y28- IN THE LOCATIONS SHOWN ON SHEET TMP-7 AND PLACE -L- AND -Y28- TRAFFIC INTO THE PATTERN SHOWN ON SHEET TMP-7.
- INSTALL PORTABLE CONCRETE BARRIER WITH NON-GATING TEMPORARY CRASH CUSHIONS ON -L- IN THE LOCATION SHOWN ON SHEET TMP-4.
- INSTALL TEMPORARY GUARDRAIL WITH GREU-TL-3 END TREATMENTS ON -L- IN THE LOCATIONS SHOWN ON SHEETS TMP-4 AND TMP-5.

USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1 AND 2 OF 19, COMPLETE THE FOLLOWING:
- WEDGE EXISTING -L- AND -Y25- UP TO THE PROPOSED ELEVATION IN THE LOCATIONS AND AS DESCRIBED ON SHEET TMP-6. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE WEDGED SECTIONS OF -L- AND -Y25- IN THE LOCATIONS SHOWN ON SHEET TMP-6 AND PLACE -L- AND -Y25- TRAFFIC INTO THE PATTERN SHOWN ON SHEET TMP-6.
- WEDGE EXISTING -L-, -Y1- AND -Y2- UP TO THE PROPOSED ELEVATION IN THE LOCATIONS AND AS DESCRIBED ON SHEET TMP-8. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE WEDGED SECTIONS OF -L-, -Y1- AND -Y2- IN THE LOCATIONS SHOWN ON SHEET TMP-8 AND PLACE -L-, -Y1- AND -Y2- TRAFFIC INTO THE PATTERN SHOWN ON SHEET TMP-8.
- WEDGE EXISTING -L-, -Y3- AND -Y33- UP TO THE PROPOSED ELEVATION IN THE LOCATIONS AND AS DESCRIBED ON SHEETS TMP-9 AND TMP-10. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE WEDGED SECTIONS OF -L-, -Y3- AND -Y33- IN THE LOCATIONS SHOWN ON SHEETS TMP-9 AND TMP-10 AND PLACE -L-, -Y3- AND -Y33- TRAFFIC INTO THE PATTERN SHOWN ON SHEETS TMP-9 AND TMP-10.

STEP 3: INSTALL THE PROPOSED AND TEMPORARY STORMWATER COMPONENTS IDENTIFIED ON SHEETS TMP-4 THRU TMP-10. USE ROADWAY STANDARD DRAWING NO. 1101.01 SHEET 1 OF 19 FOR THESE INSTALLATIONS AT THE LOCATIONS IDENTIFIED ON SHEETS TMP-4 THRU TMP-10.

BEGIN CONSTRUCTION ON ALL REMAINING GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' IN THE LOCATIONS SHOWN ON SHEETS TMP-4 THRU TMP-10 UP THRU ONE LAYER OF SURFACE COURSE. USE ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19 WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FEET OF AN OPEN TRAVEL LANE IN THESE AREAS. PLACE TEMPORARY PAVEMENT AND INCIDENTAL STONE TEMPORARY DRIVEWAY CONNECTIONS IN THE LOCATIONS SHOWN ON SHEETS TMP-4 THRU TMP-10 AS CONSTRUCTION PROCEEDS IN THOSE LOCATIONS. UTILIZE A PEDESTRIAN TRANSPORT SERVICE FOR MAINTAINING PEDESTRIAN MOVEMENTS IN THE LOCATIONS SHOWN ON SHEETS TMP-8 AND TMP-10 WHEN WIDENING OPERATIONS ARE BEING CONSTRUCTED IN THOSE LOCATIONS.

MAINTAIN EXISTING PEDESTRIAN WALKWAYS UNTIL THE PROPOSED WALKWAYS HAVE BEEN CONSTRUCTED IN THE LOCATIONS SHOWN ON SHEETS TMP-8 THRU TMP-10. SHIFT PEDESTRIAN TRAFFIC ONTO THE PROPOSED PEDESTRIAN WALKWAYS AFTER THEY HAVE BEEN CONSTRUCTED, REMOVE THE ORIGINAL PEDESTRIAN WALKWAYS IN THE SAME LOCATIONS AND CONTINUE WITH -L- CONSTRUCTION IN THE LOCATIONS WHERE THE ORIGINAL PEDESTRIAN PATHWAYS HAVE BEEN REMOVED.

PHASE II

STEP 1: COMPLETE CONSTRUCTION UP THROUGH ONE LAYER OF SURFACE COURSE ON ALL ROADWAY SECTIONS THAT ARE REQUIRED TO BE CONSTRUCTED IN ORDER TO IMPLEMENT THE UPCOMING -L- LINE TRAFFIC SHIFT SHOWN ON SHEETS TMP-11 AND TMP-12.

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- IN THE LOCATIONS SHOWN ON SHEETS TMP-11 AND TMP-12 AND PLACE -L- TRAFFIC INTO THE PATTERN SHOWN ON SHEETS TMP-11 AND TMP-12.

STEP 3: BEGIN CONSTRUCTION ON THE GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' IN THE LOCATIONS SHOWN ON SHEETS TMP-11 AND TMP-12 UP THRU ONE LAYER OF SURFACE COURSE INCLUDING PROPOSED STORMWATER COMPONENTS. USE ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19 WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FEET OF AN OPEN TRAVEL LANE IN THESE AREAS. REMOVE ORIGINAL -L- IN THE LOCATION SHOWN ON SHEET TMP-11.

STEP 4: COMPLETE CONSTRUCTION UP THROUGH ONE LAYER OF SURFACE COURSE ON ALL ROADWAY SECTIONS THAT ARE REQUIRED TO BE CONSTRUCTED IN ORDER TO IMPLEMENT THE UPCOMING -L- LINE TRAFFIC SHIFT SHOWN ON SHEETS TMP-14 THRU TMP-16.

STEP 5: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L-, -Y30-, -Y31-, -Y3-, -Y33- AND -Y34- IN THE LOCATIONS SHOWN ON SHEETS TMP-14 THRU TMP-16 AND PLACE -L-, -Y30-, -Y31-, -Y3-, -Y33- AND -Y34- TRAFFIC INTO THE PATTERN SHOWN ON SHEETS TMP-14 THRU TMP-16.

STEP 6: BEGIN CONSTRUCTION ON THE GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' IN THE LOCATIONS SHOWN ON SHEETS TMP-14 THRU TMP-16 UP THRU ONE LAYER OF SURFACE COURSE INCLUDING PROPOSED STORMWATER COMPONENTS. USE ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19 WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FEET OF AN OPEN TRAVEL LANE IN THESE AREAS. REMOVE ORIGINAL -L- IN THE LOCATIONS SHOWN ON SHEETS TMP-14 AND TMP-15. MAINTAIN PEDESTRIAN WALKWAYS IN THE CONFIGURATIONS SHOWN ON SHEETS TMP-13 THRU TMP-16 DURING THIS CONSTRUCTION.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19, CONSTRUCT THE TEMPORARY PAVEMENT WIDENING ALONG -Y2A- IN THE LOCATION SHOWN ON SHEET TMP-14.

PHASE III

STEP 1: COMPLETE CONSTRUCTION UP THROUGH ONE LAYER OF SURFACE COURSE ON ALL ROADWAY SECTIONS THAT ARE REQUIRED TO BE CONSTRUCTED IN ORDER TO IMPLEMENT THE UPCOMING -L- LINE TRAFFIC SHIFT SHOWN ON SHEETS TMP-17 THRU TMP-21.

INSTALL THE TEMPORARY TRAFFIC SIGNAL COMPONENTS REQUIRED FOR THE UPCOMING TRAFFIC SHIFT AT THE -L-/-Y2- INTERSECTION SHOWN ON SHEET TMP-21 AND COVER THE TEMPORARY TRAFFIC SIGNAL HEADS.

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1 AND 3 OF 19, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L-, -Y24-, -Y25-, -Y26-, -Y27, -Y28-, -Y29-, -Y1-, -Y2- AND -Y2A- IN THE LOCATIONS SHOWN ON SHEETS TMP-17 THRU TMP-21, UNCOVER THE TEMPORARY TRAFFIC SIGNAL HEADS AND ACTIVATE THE TEMPORARY TRAFFIC SIGNAL AT THE -L-/-Y2- INTERSECTION AND PLACE -L-, -Y24-, -Y25-, -Y26-, -Y27, -Y28-, -Y29-, -Y1-, -Y2- AND -Y2A- TRAFFIC INTO THE PATTERNS SHOWN ON SHEETS TMP-17 THRU TMP-21.

STEP 3: BEGIN CONSTRUCTION ON THE GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' IN THE LOCATIONS SHOWN ON SHEETS TMP-17 THRU TMP-21 UP THRU ONE LAYER OF SURFACE COURSE INCLUDING PROPOSED STORMWATER COMPONENTS. USE ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19 WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FEET OF AN OPEN TRAVEL LANE IN THESE AREAS. REMOVE ORIGINAL -L- IN THE LOCATION SHOWN ON SHEET TMP-19. MAINTAIN PEDESTRIAN WALKWAYS IN THE CONFIGURATIONS SHOWN ON SHEETS TMP-13 THRU TMP-21 DURING THIS CONSTRUCTION.

PHASE IIIA

STEP 1: COMPLETE CONSTRUCTION UP THROUGH ONE LAYER OF SURFACE COURSE ON ALL ROADWAY SECTIONS THAT ARE REQUIRED TO BE CONSTRUCTED IN ORDER TO IMPLEMENT THE UPCOMING -L- LINE AND -Y2A- TRAFFIC SHIFT SHOWN ON SHEETS TMP-22 THRU TMP-24.

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L-, -Y2-, -Y2A-, -Y3-, -Y30-, -Y31-, -Y33, -Y34- AND -Y35- IN THE LOCATIONS SHOWN ON SHEETS TMP-22 THRU TMP-24, SHIFT THE TEMPORARY TRAFFIC SIGNAL HEADS AT THE -L-/-Y2- INTERSECTION AND PLACE -L-, -Y2-, -Y2A-, -Y3-, -Y30-, -Y31-, -Y33, -Y34- AND -Y35- TRAFFIC INTO THE PATTERNS SHOWN ON SHEETS TMP-22 THRU TMP-24.

STEP 3: BEGIN CONSTRUCTION ON THE GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' IN THE LOCATIONS SHOWN ON SHEETS TMP-22 THRU TMP-24 UP THRU ONE LAYER OF SURFACE COURSE INCLUDING PROPOSED STORMWATER COMPONENTS. USE ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19 WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FEET OF AN OPEN TRAVEL LANE IN THESE AREAS. REMOVE ORIGINAL -L- IN THE LOCATION SHOWN ON SHEETS TMP-23 AND TMP-24. MAINTAIN PEDESTRIAN WALKWAYS IN THE CONFIGURATIONS SHOWN ON SHEETS TMP-22 THRU TMP-24 DURING THIS CONSTRUCTION.

PHASE IV

STEP 1: COMPLETE CONSTRUCTION UP THROUGH ONE LAYER OF SURFACE COURSE ON ALL ROADWAY SECTIONS THAT ARE REQUIRED TO BE CONSTRUCTED IN ORDER TO IMPLEMENT THE UPCOMING -L- LINE TRAFFIC SHIFT SHOWN ON SHEETS TMP-25 THRU TMP-31. INSTALL AND COVER THE PROPOSED SIGNS SHOWN ON SHEETS TMP-25 THRU TMP-31.

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1 AND 3 OF 19, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- AND ALL -Y- LINES IN THE LOCATIONS SHOWN ON SHEETS TMP-25 THRU TMP-31. SHIFT THE TEMPORARY TRAFFIC SIGNAL HEADS AT THE -L-/-Y2- INTERSECTION AND PLACE -L- AND ALL -Y- LINE TRAFFIC INTO THE PATTERNS SHOWN ON SHEETS TMP-25 THRU TMP-31. COORDINATE THE -L- LINE TRAFFIC SHIFT WITH THE ADJOINING U-4714BA PROJECT.

STEP 3: CONSTRUCT THE PROPOSED MONOLITHIC CONCRETE ISLANDS AND THE REMAINING CURB AND GUTTER SECTIONS IN THE -L- MEDIAN IN THE GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' LOCATIONS SHOWN ON SHEETS TMP-25 THRU TMP-31. REMOVE THE TEMPORARY DRIVEWAY PAVEMENT IN THE -L- MEDIAN IN THE LOCATIONS SHOWN ON SHEET TMP-28. INSTALL AND COVER THE PROPOSED TRAFFIC SIGNAL COMPONENTS AT THE -L-/-Y2- INTERSECTION.

USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 OF 19, CONSTRUCT THE PROPOSED MONOLITHIC CONCRETE ISLANDS ALONG THE -Y- LINES IN THE GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' LOCATIONS SHOWN ON SHEETS TMP-27 THRU TMP-31 AND THE REMAINING SECTIONS OF THE PROPOSED PEDESTRIAN WALKWAYS SHOWN IN THE GRAY SHADED 'NEW CONSTRUCTION WORK AREAS' LOCATIONS SHOWN ON SHEETS TMP-25 THRU TMP-31.

STEP 4: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1, 3 OR 11 OF 19, PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS AND ALL REMAINING PROPOSED SIGNS AND PLACE ALL TRAFFIC IN THE FINAL TRAFFIC PATTERN. OPEN ALL PEDESTRIAN WALKWAYS TO THE FINAL PATTERN AND REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Signed by: Tim Arey 100DE9D1DC4B437... DATE: 10/19/2026

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

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

TRANSPORTATION MANAGEMENT PLAN

WRITTEN PHASING

8/12/2026
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AshleyL

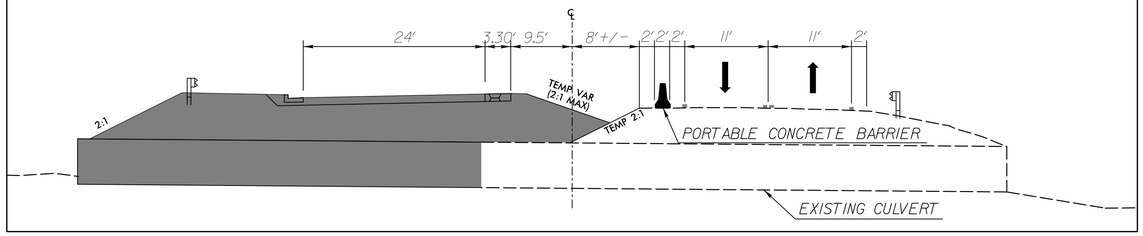
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STV Engineers, Inc.
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Charlotte, NC, 28203
NC License Number F-0991

PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-4

NAD 83/NA 2011

SECTION A-A -L- STA. 104+19



95+00 100+00 105+00

RETAIN I-485 NORTH OUTER

RETAIN I-485 SOUTH INNER

END P4
-L- STA. 98+85+/-

RELOCATE Pineville / Huntersville
-L- STA. 99+00+/-

END P40 BEGIN P4
-L- STA. 96+65+/-

STA. 96+20+/- -L-
WEDGE EXISTING ROADWAY UP TO THE PROPOSED ELEVATION

-L- STA. 97+85+/-

-L-
E. JOHN ST.

END P4
-L- STA. 99+90+/-

RELOCATE SPEED LIMIT 35

STA. 102+50+/- -L-
BEGIN WEDGING TRANSITION FROM PROPOSED ELEVATION BACK DOWN TO EXISTING ELEVATION
CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY

-L- STA. 103+00+/-
END WEDGING

-L- STA. 103+62+/-

RELOCATE I-485 JCT

CONSTRUCT TEMPORARY PAVEMENT

RETAIN AND EXTEND 2 @ 5'X6' RCBC

PROPOSED 15" RCP
PARTIAL INSTALLATION
-L- STA. 106+25+/-
TIE PCB TO TEMPORARY GUARDRAIL UTILIZING GUARDRAIL ANCHOR UNIT TYPE B-77 (SEE TMP-2D)

TEMPORARY 18" RCP
OUTLET TO PROPOSED OUTFALL

TEMPORARY DI
-L- STA. 105+35+/-

TEMPORARY STORMWATER
FLOW PATH GRADE TO DRAIN

35' MAX.

P40 P4 P10 P79 P3 P79 P13 P4 P2 P13

STA. 100+90+/- -L-

RETAIN YIELD

RETAIN RIGHT LANE ENDS

BEGIN P3
-L- STA. 97+30+/-

RETAIN SPEED LIMIT 45

END P4
-L- STA. 101+35+/-

BEGIN TIP PROJECT U-4714AC
-L- STA. 96+20+/-

I-485 OFF RAMP

R11-2
48" x 30"
ROAD CLOSED
W1-6R
48" x 24"
TYPE III BARRICADE

STA. 103+05+/- -L-
BEGIN PORTABLE CONCRETE BARRIER
NON-GATING TEMPORARY CRASH CUSHION

STA. 106+70+/- -L-
TIE TO EXISTING MARKINGS

TEMPORARY GUARDRAIL

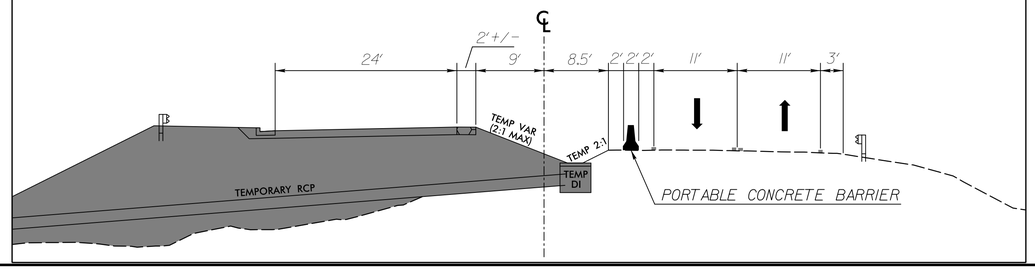
STA. 107+75+/- -L-
BEGIN TEMPORARY GUARDRAIL
TEMPORARY GREU-TL-3

STA. 108+90+/- -L-
TIE TO EXISTING MARKINGS

24" RCP
DIRECTION ONLY

MATCHLINE U-4714AC -L- STA. 109+25 SEE SHEET TMP-5

SECTION B-B -L- STA. 104+40



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APPROVED: Signed by: Tim Arey DATE: 10/19/2026

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM ARCY

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

TRANSPORTATION MANAGEMENT PLAN

PHASE I DETAIL

8/12/2026
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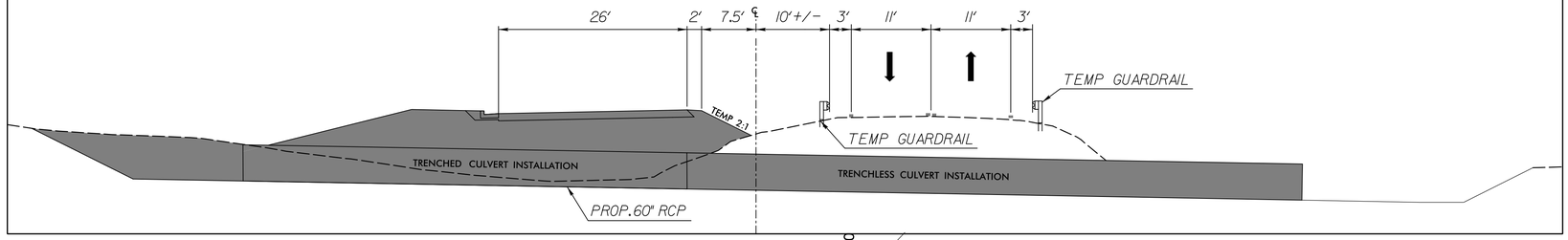
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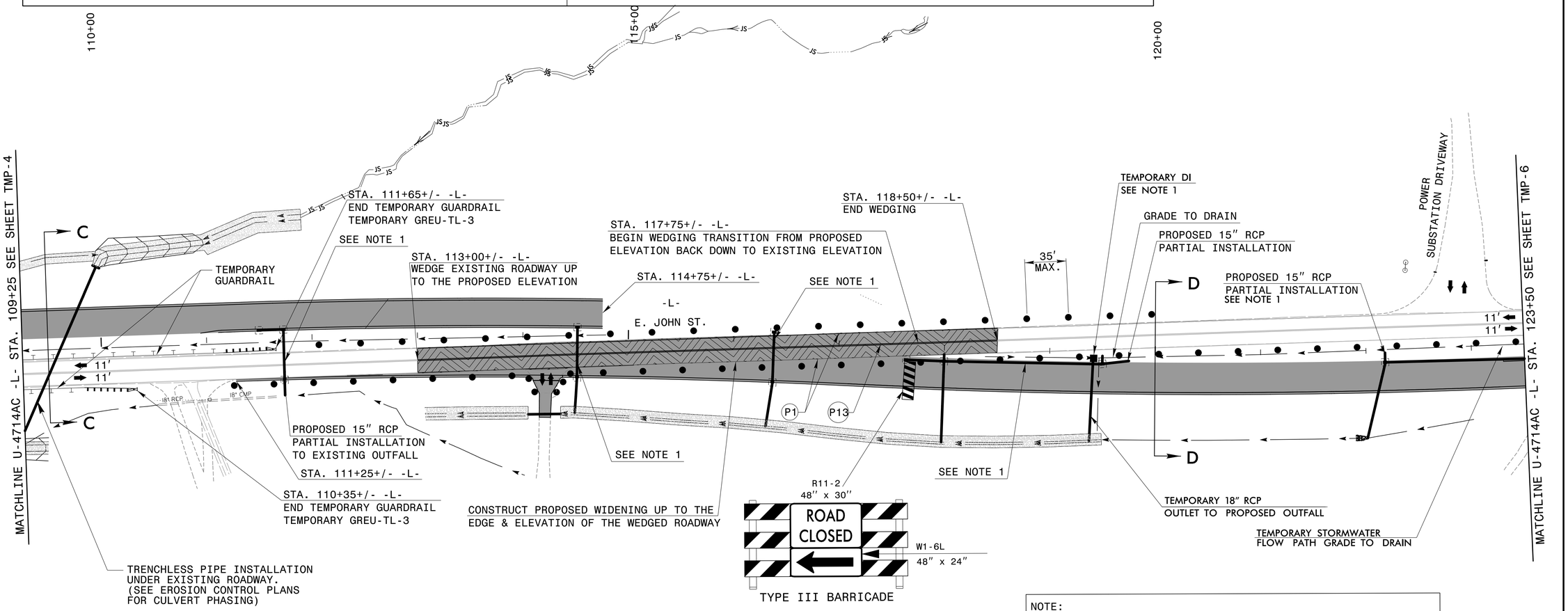
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-5

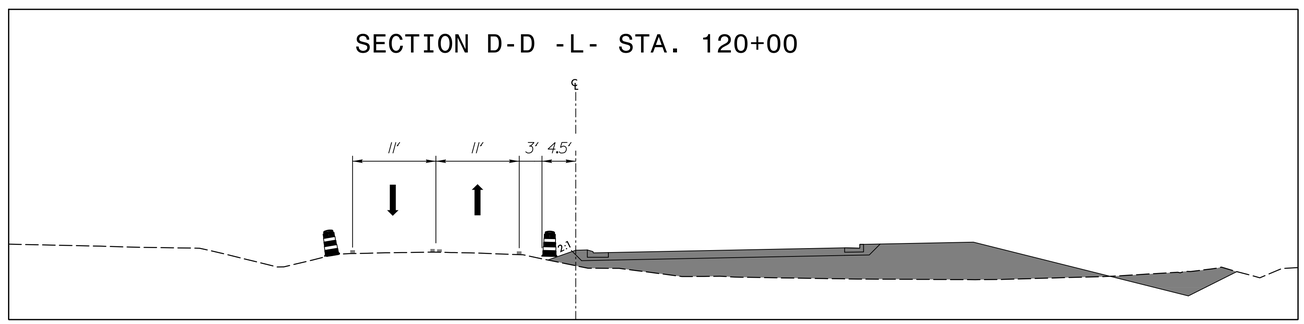
NAD 83/NA 2011

SECTION C-C -L- STA. 109+50





SECTION D-D -L- STA. 120+00



NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.

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APPROVED: Signed by: Tim Arey DATE: 10/19/2026

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM ARCY

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

TRANSPORTATION MANAGEMENT PLAN

PHASE I DETAIL

8/12/2026
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AshleyL

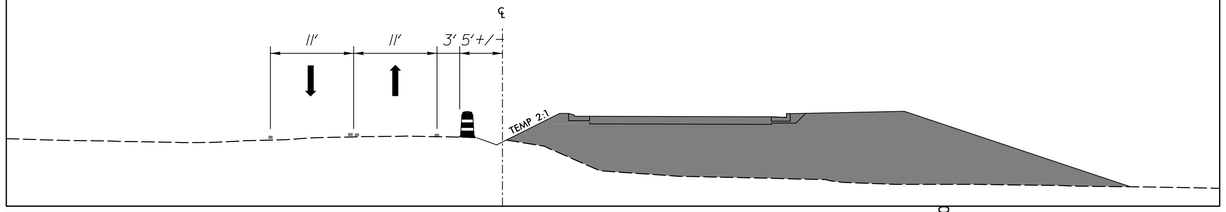
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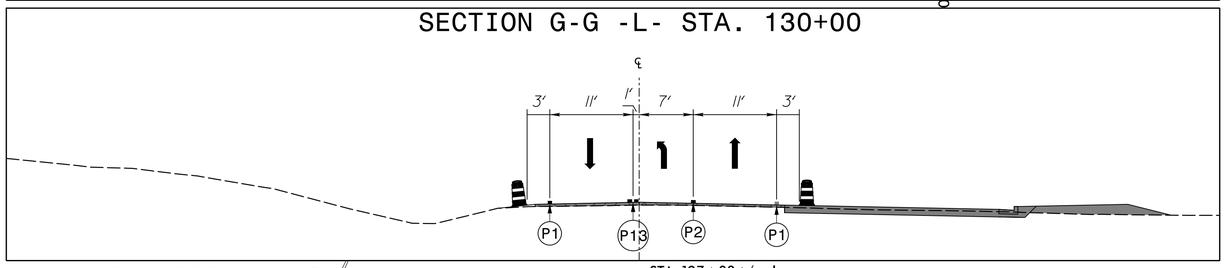
PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-6

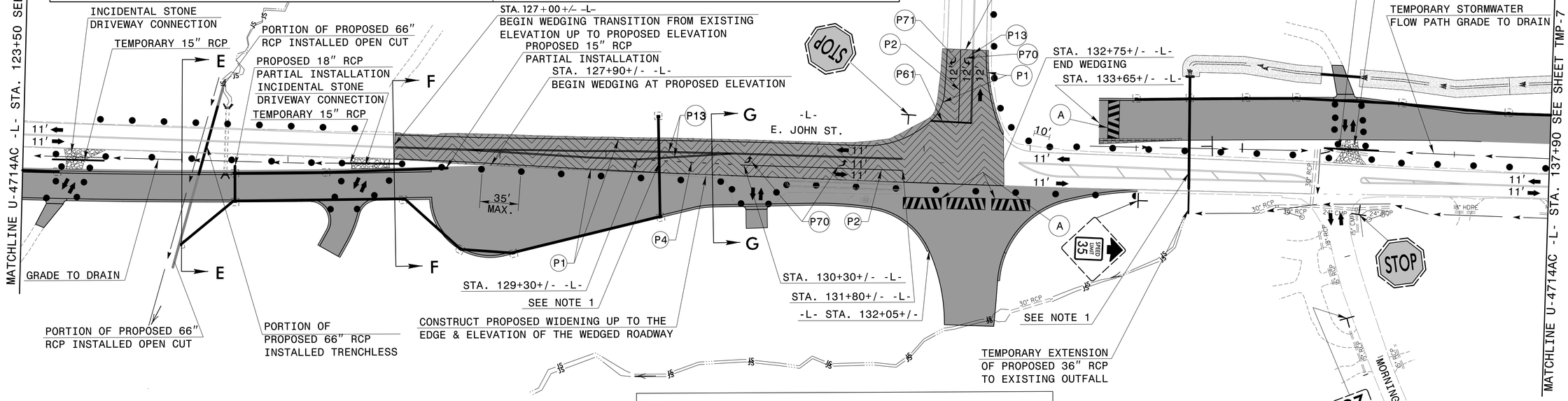
NAD 83/NA 2011

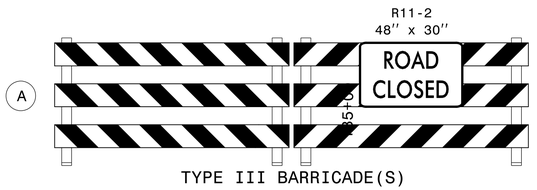
SECTION F-F -L- STA. 127+00



SECTION G-G -L- STA. 130+00

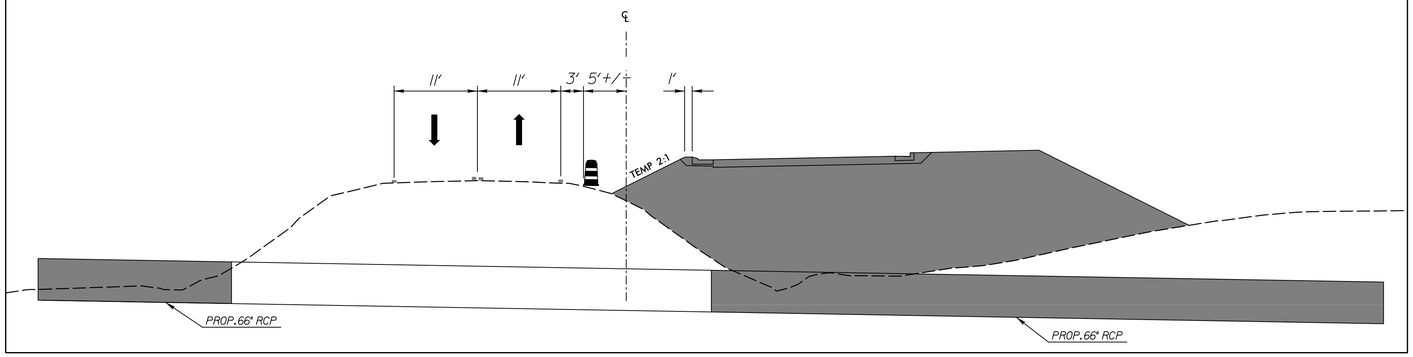






NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.

SECTION E-E -L- STA. 125+00



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APPROVED: Signed by Tim Arey DATE: 10/19/2026

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

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

TRANSPORTATION MANAGEMENT PLAN

PHASE I DETAIL

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-7

NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.

NAD 83/NA 2011

MATCHLINE U-4714AC -L- STA. 137+90 SEE SHEET TMP-6

MATCHLINE U-4714AC -L- STA. 152+25 SEE SHEET TMP-8

140+00

145+00

150+00

TEMPORARY 18" RCP
INCIDENTAL STONE DRIVEWAY CONNECTION
TEMPORARY STORMWATER FLOW PATH GRADE TO DRAIN

TEMPORARY 18" RCP
TEMPORARY 18" RCP
OUTLET TO PROPOSED DITCH
PROPOSED 18" RCP
PARTIAL INSTALLATION

TEMPORARY 15" RCP

TEMPORARY STORMWATER FLOW PATH GRADE TO DRAIN

TEMPORARY 15" RCP

TEMPORARY STORMWATER FLOW PATH GRADE TO DRAIN

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY

TEMPORARY 15" RCP
TEMPORARY PAVEMENT DRIVEWAY CONNECTION
TEMPORARY 15" RCP
TEMPORARY STORMWATER FLOW PATH GRADE TO DRAIN

TEMPORARY PAVEMENT DRIVEWAY CONNECTION

TEMPORARY DI

STA. 12+05 +/- BEGIN WEDGING SEE NOTE 1

SPEED LIMIT 45

SPEED LIMIT 35

RELOCATE

STOP

-L- EAST JOHN ST

-L- OLD MONROE RD

ANN ST

UNION COUNTY
MECKLENBURG COUNTY

11′
11′

35′ MAX.

18" HDPE
18" RCP
15" CMP
15" RCP

INCIDENTAL STONE DRIVEWAY CONNECTION

TEMPORARY PAVEMENT DRIVEWAY CONNECTION

TEMPORARY PAVEMENT DRIVEWAY CONNECTION

FORESTMONT DR

FRIENDSHIP DR

-Y26-

-Y27-

-Y28-

-Y29-

STA. 148+00 +/- -L- BEGIN WEDGING -L- STA. 149+24+/-

TEMPORARY 18" RCP OUTLET INTO PROPOSED OUTFALL SEE NOTE 1

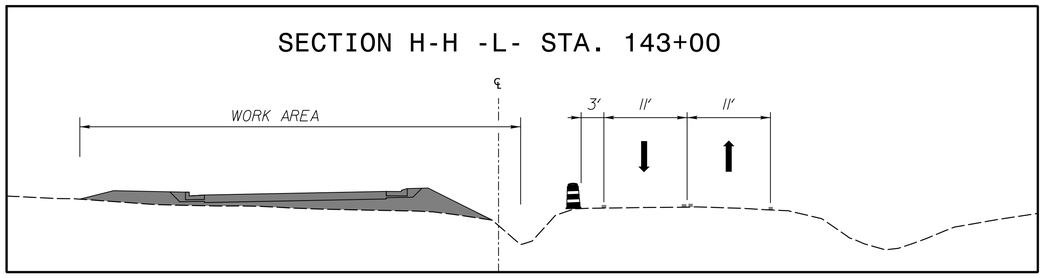
STA. 151+00 +/- -L- END WEDGING

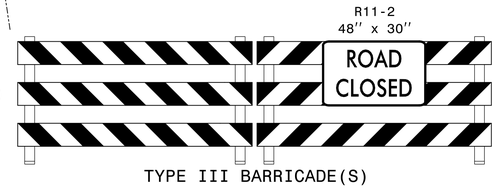
STA. 151+85+/- -L- BEGIN TEMPORARY PAVEMENT

AURORA BLVD

P1 P5 P13 A

SECTION H-H -L- STA. 143+00





A

TYPE III BARRICADE(S)

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NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.
2) UTILIZE ON-CALL PEDESTRIAN TRANSPORT VEHICLE SERVICE UNTIL THE PROPOSED SIDEWALK HAS BEEN CONSTRUCTED AND OPENED TO PEDESTRIANS.

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-8

NAD 83/NA 2011

U-4714AC -L- STA. 152+25 SEE SHEET TMP-7

U-4714AC -L- STA. 166+50 SEE SHEET TMP-9

STA. 10+25 +/–
BEGIN WEDGING

INSTALL TRAFFIC BEARING BOX AND TEMPORARY PLATE SEE NOTE 1

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY

GRADE TO DRAIN

RELOCATE SPEED LIMIT 35

STA. 154+50 +/–
BEGIN WEDGING TRANSITION FROM EXISTING ELEVATION UP TO PROPOSED ELEVATION

TEMPORARY PAVEMENT WIDENING AT PROPOSED ELEVATION AND CROSS SLOPE

STA. 155+10 +/- -L-

STA. 155+50 +/– –L–
BEGIN WEDGING AT PROPOSED ELEVATION

STA. 156+30 +/- -L-
END TEMPORARY PAVEMENT

STA. 157+35 +/- -L-

STA. 157+95 +/- -L-

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY
STA. 12+50 +/–
END WEDGING
STA. 12+90 +/– BEGIN WEDGING

RELOCATE STOP

-Y1- -Y1A- -Y2- -Y2A- -Y2B-

CAMPUS RIDGE RD

STALLINGS RD

-Y2- STA. 13+50 SEE INSET A

-Y2- STA. 12+00+/-

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY
TEMPORARY 24" RCP EXTENSION
OUTLET INTO PROPOSED OUTFALL
STA. 163+70+/- -L-
TEMPORARY 24" RCP
TIE INTO TEMP JB

PROPOSED 24" RCP PARTIAL INSTALLATION

-L- STA. 164+57+/-
TEMPORARY EXTENSION OF PROPOSED 18" RCP TO PROPOSED OUTFALL
SEE NOTE 2

-L- 165+00

OLD MONROE RD

TEMP JB

REMOVE PORTION OF EXISTING 15" RCP AND GRADE TEMPORARY DITCH TO INLET OF 24" RCP

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY

STA. 166+00 +/– –L–
END WEDGING

SEE NOTE 1

STA. 165+00 +/– –L–
BEGIN WEDGING TRANSITION FROM PROPOSED ELEVATION BACK DOWN TO EXISTING ELEVATION

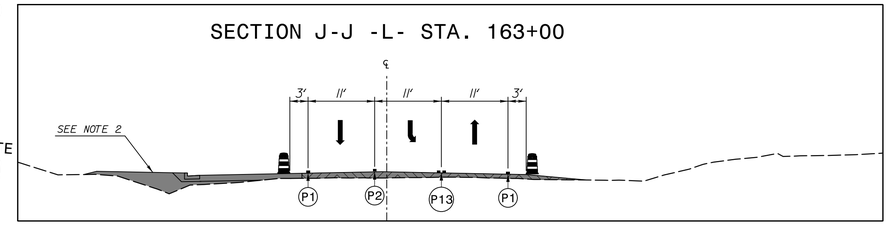
STA. 10+70 +/–
END WEDGING

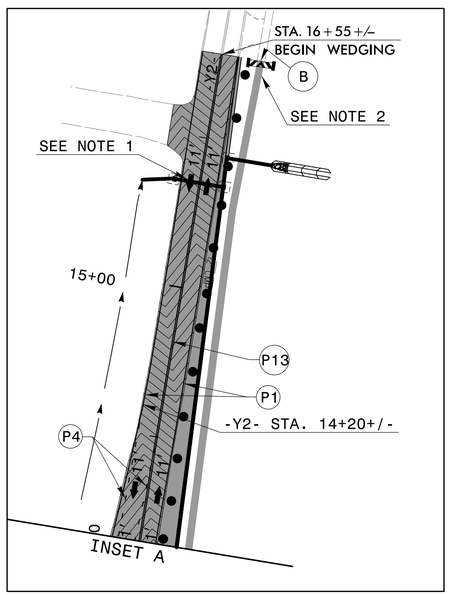
POTTER RD

PROPOSED 15" RCP PARTIAL INSTALLATION

-Y2A- STA. 16+65+/-

SECTION J-J -L- STA. 163+00



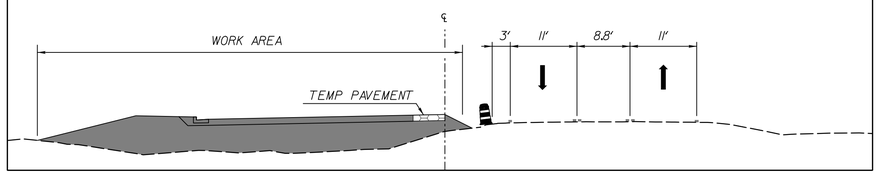


A — R11-2 48" x 30" ROAD CLOSED
TYPE III BARRICADE(S)

B — 4'± SIDEWALK CLOSED R9-9 24" X 12" 5' MIN 2"MAX
PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

C — R11-2 48" x 30" ROAD CLOSED W1-6L 48" x 24"
TYPE III BARRICADE

SECTION I-I -L- STA. 154+00



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

TRANSPORTATION MANAGEMENT PLAN

PHASE I DETAIL

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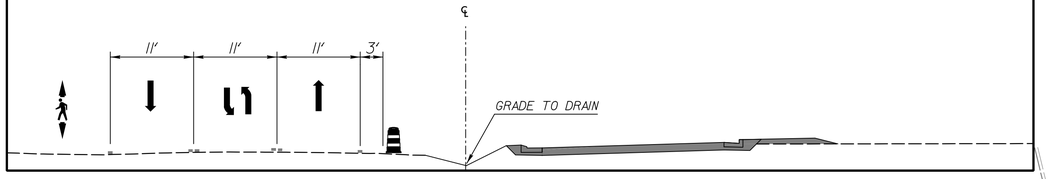
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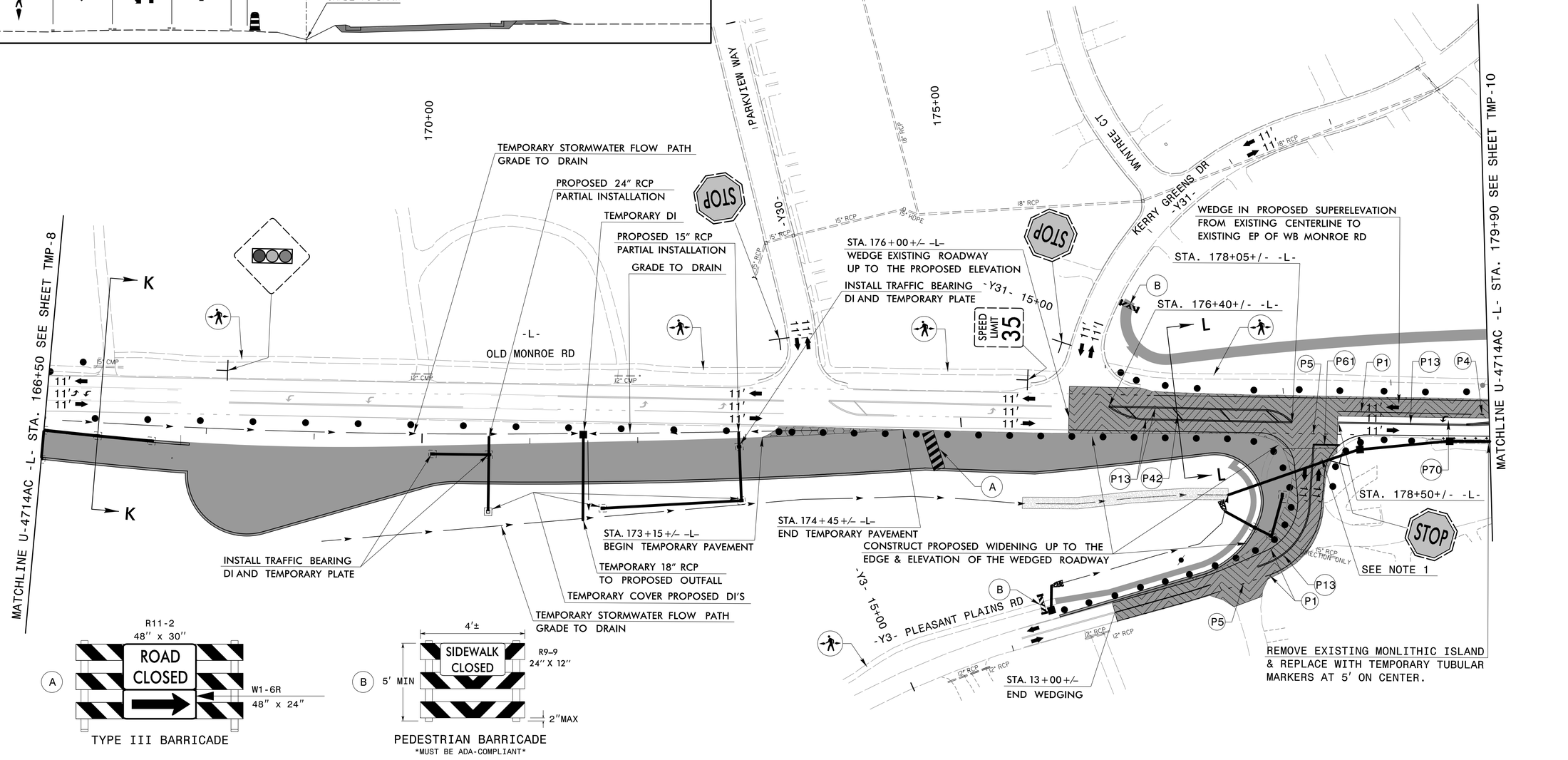
PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-9

NAD 83/NA 2011

NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.

SECTION K-K -L- STA. 167+00

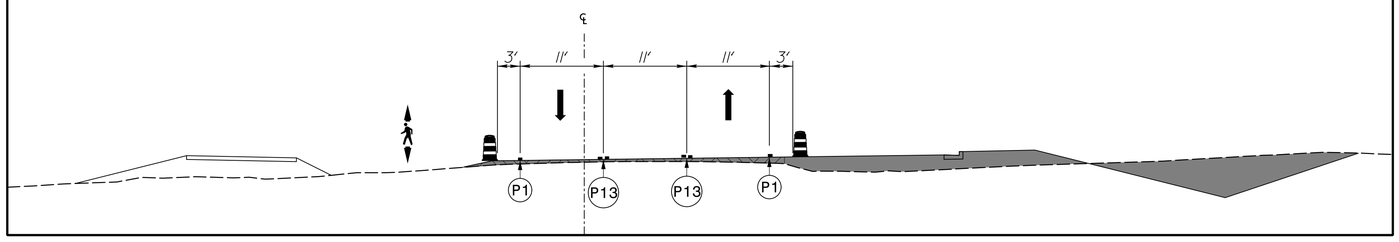




TYPE III BARRICADE

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

SECTION L-L -L- STA. 177+00



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PHASE I DETAIL

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-10

NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.
2) UTILIZE ON-CALL PEDESTRIAN TRANSPORT VEHICLE SERVICE UNTIL THE PROPOSED SIDEWALK HAS BEEN CONSTRUCTED AND OPENED TO PEDESTRIANS.

NAD 83/NA 2011

MATCHLINE U-4714AC -L- STA. 179+90 SEE SHEET TMP-9

185+00 190+00 10+00

-Y33- 10+00

CATAWBA CIR S -Y33-

-Y33- STA. 12+30+/-

PROPOSED 30" RCP
PARTIAL INSTALLATION
SEE NOTE 1

24" RCP

STOP

SEE NOTE 1

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY

SEE NOTE 2

-L-
OLD MONROE RD

SPEED LIMIT 35

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY

SEE NOTE 2

END TIP PROJECT U-4714AC
-L- POT STA. 193+50.61 =
BEGIN TIP PROJECT U-4714BA
-L- STA. 10+00.00

SEE NOTE 2

M

M

P1 P13 P61 P4 P5 P6 A B

11' 11' 12'

15" CMP

INSTALL TRAFFIC BEARING
DI AND TEMPORARY PLATE
SEE NOTE 1

SPEED LIMIT 45

PROPOSED 15" RCP
PARTIAL INSTALLATION

MAINTAIN STORMWATER IN EXISTING CROSS PIPE
UNTIL PROPOSED STORMWATER SYSTEM IS
ACTIVATED THEN FLOW FILL EXISTING CROSS PIPE

STOP

SWEETBRIAR DR

-Y35-

12" RCP

RHODERIA DR

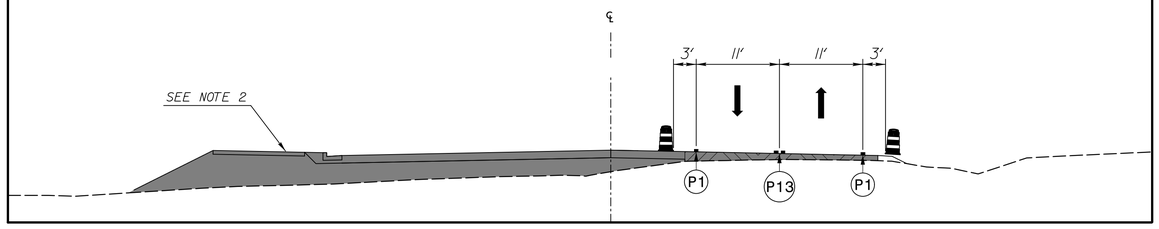
18" RCP

-Y34-

REMOVE EXISTING MONLITHIC ISLAND
& REPLACE WITH TEMPORARY TUBULAR
MARKERS AT 5' ON CENTER.

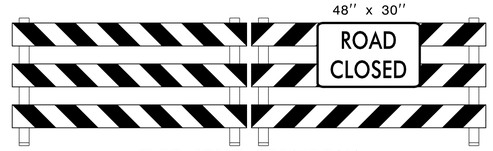
STA. 193+50 +/- -L-
END WEDGING

SECTION M-M -L- STA. 189+00



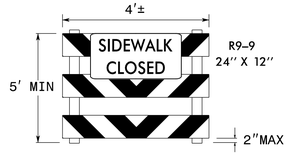
A

R11-2
48" x 30"



TYPE III BARRICADE(S)

B



PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM ARREY

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

TRANSPORTATION MANAGEMENT PLAN

PHASE I DETAIL

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-11

NAD 83/NA 2011

110+00

115+00

120+00

STA. 114+75+/- -L-

INSTALL REMAINING
STORMWATER COMPONENTS

-L-
E. JOHN ST.

POWER
SUBSTATION DRIVEWAY

A

11′
11′
11′
11′

18" RCP

18" CMP

P1

P13

-L- STA. 123+50 SEE SHEET TMP-12

MATCHLINE U-4714AC -L-

-L- STA. 111+25+/-
TIE TO EXISTING MARKINGS

-L- STA. 106+50+/-

TRAFFIC
SHIFT
AHEAD
W3(1-)
48" X 48"

-L- STA. 110+00+/-

W1-4R
48" X 48"

R11-2
48" x 30"
ROAD
CLOSED
W1-6R
48" x 24"
TYPE III BARRICADE

-L- STA. 122+35+/-

W1-4L
48" X 48"

SECTION A-A -L- STA. 120+00

WORK AREA

4′ 3′ 11′ 11′

P1 P13

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

TRANSPORTATION
MANAGEMENT PLAN

PHASE II
DETAIL

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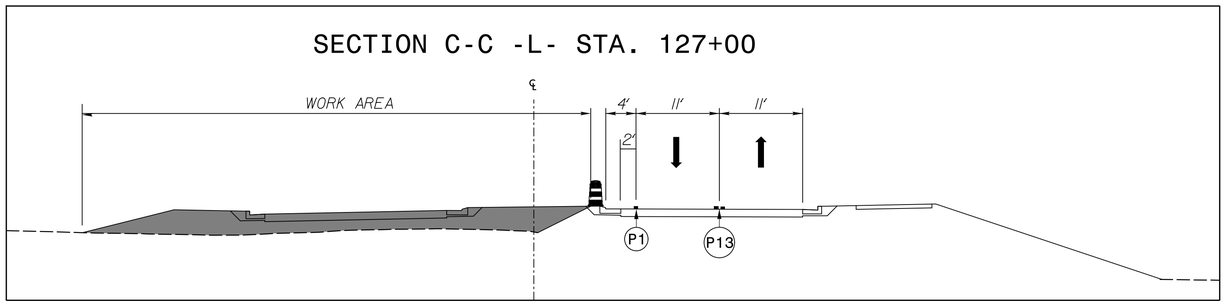
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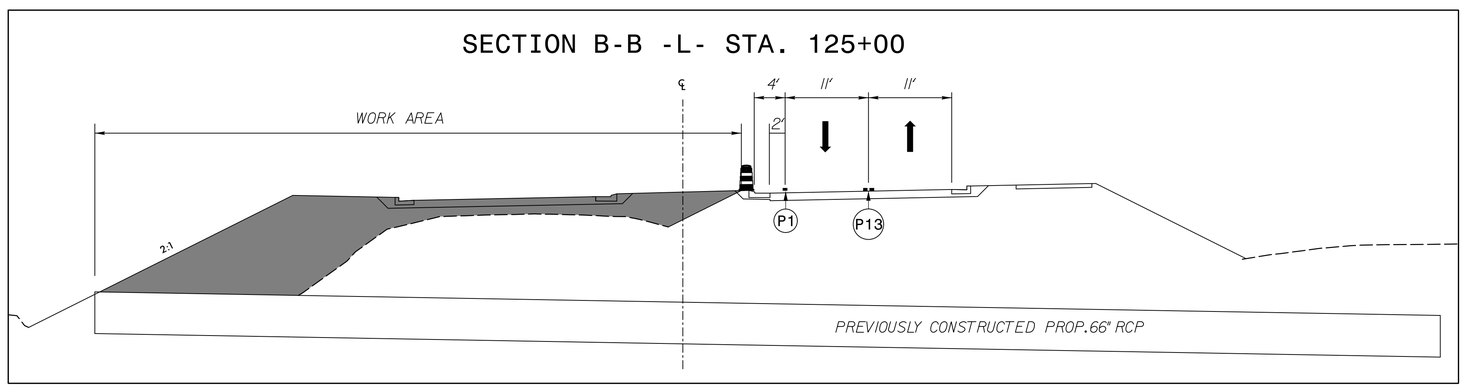
PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-12

NAD 83/NA 2011

SECTION C-C -L- STA. 127+00



SECTION B-B -L- STA. 125+00



MATCHLINE U-4714AC -L- STA. 123+50 SEE SHEET TMP-11

MATCHLINE U-4714AC -L- STA. 137+90 SEE SHEET TMP-13

PROPOSED DRIVEWAY ACCESS PATH AFTER PROPOSED FILL BEGINS TO BE PLACED

PROP. 66" RCP
SEE EROSION CONTROL PLANS FOR CULVERT PHASING

INSTALL REMAINING STORMWATER COMPONENTS FLOW FILL THIS SECTION OF EXISTING CULVERT

REMOVE THIS SECTION OF EXISTING CULVERT

125+00

130+00

CONSTRUCT PROPOSED WIDENING UP TO THE EDGE & ELEVATION OF THE WEDGED ROADWAY

PROPOSED DRIVEWAY ACCESS PATH AFTER PROPOSED FILL BEGINS TO BE PLACED

-L-
E. JOHN ST.

RELOCATE STOP

-Y25- MCKEE RD

-Y25- STA. 21+00+/-

-Y25- STA. 23+50+/-

135+00

R11-2
48" x 30"
ROAD CLOSED

TYPE III BARRICADE(S)

W1-4L
48" X 48"

STA. 134+45+/--L-
END TEMPORARY PAVEMENT

STA. 132+80+/--L-
BEGIN TEMPORARY PAVEMENT

STA. 136+65+/--L-

W31-1
48" X 48"
TRAFFIC SHIFT AHEAD

35 SPEED LIMIT

STOP

25 SPEED LIMIT

MORNINGWOOD DR

-Y24-

-L- STA. 130+15+/-

-L- STA. 127+35+/-

-L- STA. 131+85+/-

FUTURE U-4713A MCKEE RD EXTENSION
(CONSTRUCTED BY OTHERS; ANTICIPATED OPEN TO TRAFFIC IN 2028)

30" RCP
18" RCP
24" CMP
24" RCP
18" HDPE
15" CMP
15" RCP

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-13

NAD 83/NA 2011

140+00

145+00

150+00

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE(S)

UNION COUNTY
MECKLENBURG COUNTY

-L-
E. JOHN ST.

-L-
OLD MONROE RD

ANN ST

-Y28-
12" TCP
12" RCP

-Y26-
-Y27-
-Y29-

FORESTMONT DR

FRIENDSHIP DR

AURORA BLVD

STOP

SPEED LIMIT 35

18" HDPE
DIRECTION ONLY

15" CMP
15" RCP
18" HDPE
18" RCP

MATCHLINE U-4714AC -L- STA. 137+90 SEE SHEET TMP-12

MATCHLINE U-4714AC -L- STA. 152+25 SEE SHEET TMP-14

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U-4714AC	TMP-14

NAD 83/NA 2011

–Y2A– TEMPORARY PAVEMENT WIDTH MEASURED FROM THE EXISTING –Y2A– EDGE OF PAVEMENT

STATION	TEMPORARY PAVEMENT WIDTH
11+00 +/–	20.5′
11+25 +/–	27.5′
11+50 +/–	27.75′
11+75 +/–	30′
12+00 +/–	35′
12+25 +/–	39′
12+50 +/–	38′
12+75 +/–	35′
13+00 +/–	30′
13+25 +/–	24.25′
13+50 +/–	22′
13+75 +/–	17′

MOVE PEDESTRIANS TO THE PROPOSED SIDEWALK

MOVE PEDESTRIANS TO THE PROPOSED SIDEWALK

MOVE PEDESTRIANS TO THE PROPOSED SIDEWALK

INSTALL REMAINING STORMWATER COMPONENTS STA. 165+20 +/– –L–

REMOVE TEMPORARY 18″ RCP EXTENSION

STA. 160+65+/- -L- TIE TO EXISTING MARKINGS

STA. 161+40+/- -L- TIE TO EXISTING MARKINGS

STA. 162+80+/- -L-

STA. 164+85+/- -L-

STA. 162+00+/- -L-

STA. 157+50+/- -L-

-Y1A-

-Y2A- STA. 10+66+/- -L-

-Y2A- STA. 13+82+/-

-Y2A- 15+00

-Y2B-

CAMPUS RIDGE RD

OLD MONROE RD

STALLINGS RD

POTTER RD

SPEED LIMIT 35

STOP

TRAFFIC SHIFT AHEAD W31-1 48″ X 48″

W1-4L 48″ X 48″

CONSTRUCT TEMPORARY PAVEMENT WIDENING AT THE EXISTING –Y2A– ELEVATION AND CROSS SLOPE. SEE THE –Y2A– TEMPORARY PAVEMENT WIDTH CHART ON THIS SHEET FOR DIMENSIONS

15" RCP | 18" RCP | 24" RCP | 30" RCP | 45" CMP | 15" CMP | 6" DIP DIRECTION ONL | 6" PVC DIRECTION ONL

MATCHLINE U-4714AC -L- STA. 166+50 SEE SHEET TMP-15

U-4714AC -L- STA. 152+25 SEE SHEET TMP-13

R11-2 48″ x 30″ ROAD CLOSED

A — TYPE III BARRICADE(S)

R9-9 24″ X 12″ SIDEWALK CLOSED

B — 4′± | 5′ MIN | 2″MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

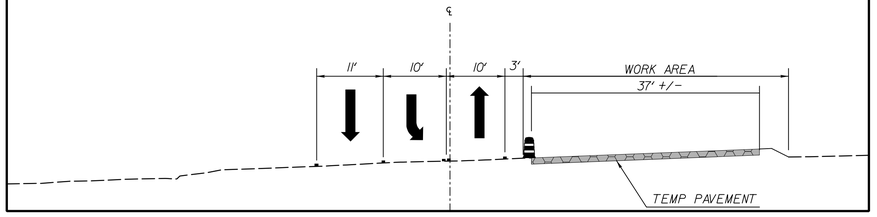
C — W1-6R 48″ x 24″

TYPE III BARRICADE

D — W1-6L 48″ x 24″

TYPE III BARRICADE

SECTION D-D -Y2A- STA. 12+00



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SEAL — NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

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

TRANSPORTATION MANAGEMENT PLAN

PHASE II DETAIL

8/12/2026
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-15

NAD 83/NA 2011

NOTE:
1) INSTALL TRAFFIC BEARING DI AND TEMPORARY PLATE

MATCHLINE U-4714AC -L- STA. 166+50 SEE SHEET TMP-8

MATCHLINE U-4714AC -L- STA. 180+00 SEE SHEET TMP-16

RELOCATE

-L- STA. 167+85 +/-

STA. 167+85+/- -L-

15" CMP

STA. 170+00+/- -L-

STA. 170+35+/- -L-

STA. 171+90+/- -L-

STA. 173+50+/- -L-

STA. 173+85+/- -L-

STA. 174+60+/- -L-

STA. 175+20+/- -L-

STA. 176+00+/- -L-

STA. 176+40+/- -L-

STA. 10+50+/- -Y3-

STA. 13+50+/- -Y3-
TIE TO EXISTING MARKINGS

-Y3- PLEASANT PLAINS RD

12" RCP

STA. 12+20+/- -Y30-
TIE TO EXISTING MARKINGS

STA. 13+85+/- -Y30-

-Y30-

INSTALL REMAINING
STORMWATER COMPONENTS

-L-
OLD MONROE RD

15" RCP

18" RCP

18" HDPE

170+00

175+00

PARKVIEW WAY

WINTREE CT

KERRY GREENS DR

-Y31-

STA. 14+15+/- -Y31-
TIE TO EXISTING MARKINGS

STA. 15+80+/- -Y31-

-Y31- 15+00

INSTALL REMAINING
STORMWATER
COMPONENTS
SEE NOTE 1

SPEED LIMIT 35

RELOCATE
STA. 177+05+/- -L-

SEE NOTE 1
INSTALL REMAINING
STORMWATER COMPONENTS

STA. 178+90+/- -L-

STA. 177+75+/- -L-

STA. 178+05+/- -L-

SEE NOTE 1

STOP
RELOCATE

P1 P2 P4 P13 P42 P61 P70

A

E

11′ 12′ 6′

R11-2
48″ x 30″
ROAD CLOSED

TYPE III BARRICADE(S)

SECTION E-E -L- STA. 177+00

15+00

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TRANSPORTATION
MANAGEMENT PLAN

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-16

NAD 83/NA 2011

-Y33- 10+00

185+00

190+00

10+00

RELOCATE

STOP

24" RCP

CATAWBA CIR S

-Y33-

-Y33- STA. 12+30+/-
TIE TO EXISTING MARKINGS

P13

P1

JS

W1-4L
48" X 48"

-L- STA. 193+50+/-

SPEED LIMIT 35

TRAFFIC SHIFT AHEAD

W31-1
48" X 48"

-L- STA. 198+50+/-

STA. 180+30+/- -L-
STA. 14+25+/- -Y33-

-L-
OLD MONROE RD

A

11'
11'

15" CMP

P61

P13 P13

STA. 190+80+/- -L-
TIE TO EXISTING MARKINGS

STA. 13+10+/- -Y34-

STOP

SPEED LIMIT 45

SWEETBRIAR DR

-Y35-

12" RCP

STOP

MATCHLINE U-4714AC -L- STA. 180+00 SEE SHEET TMP-15

RHODERIA DR

-Y34-

18" RCP

24" RCP

END TIP PROJECT U-4714AC
-L- POT STA. 193+50.61 =
BEGIN TIP PROJECT U-4714BA
-L- STA. 10+00.00

R11-2
48" x 30"

A

ROAD CLOSED

TYPE III BARRICADE(S)

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TRANSPORTATION MANAGEMENT PLAN

PHASE II DETAIL

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-17

NAD 83/NA 2011

-L-
E. JOHN ST.

MATCHLINE SEE THIS SHEET

TRAFFIC SHIFT AHEAD
W31-1
48" X 48"
-L- STA. 91+30+/-

W1-4L
48" X 48"
-L- STA. 93+30+/-

END P4
-L- STA. 98+80+/-

INNER 485 Pineville
OUTER 485 Huntersville
PERMANANT SIGN
SEE SIGNING PLANS

END P40 BEGIN P4
-L- STA. 96+85+/-

BEGIN P40
-L- STA. 96+00+/-
TIE TO EXISTING MARKINGS

END P3 BEGIN P4
-L- STA. 101+50+/-

-L- STA. 101+00+/-

SPEED LIMIT 35

-L-
E. JOHN ST.

OUTER 485 Huntersville
NEXT RIGHT
PERMANANT SIGN
SEE SIGNING PLANS

-L- STA. 103+60+/-

-L- STA. 103+55+/-
END P4

-L- STA. 104+90+/-

INSTALL REMAINING
STORM WATER COMPONENTS

W1-4L
48" X 48"
-L- STA. 108+50+/-

-L- STA. 109+25 SEE SHEET TMP-18

MATCHLINE U-4714AC -L- STA. 109+25 SEE SHEET TMP-18

MATCHLINE SEE THIS SHEET

I-485 OFF RAMP

RIGHT LANE ENDS
-L- STA. 96+80+/-

-L- STA. 98+60+/-

SPEED LIMIT 45

END P3 BEGIN P4
-L- STA. 99+60+/-
R11-2
48" x 30"

ROAD CLOSED
W1-6L
48" x 24"
TYPE III BARRICADE

END P4
-L- STA. 103+00+/-
-L- STA. 103+60+/-

RETAIN AND EXTEND 2 @ 5'X6' RCBC

BEGIN TIP PROJECT U-4714AC
MATCH TIP PROJECT I-5507
-L- POC STA. 96+20.00

BEGIN P3
-L- STA. 96+00+/-
TIE TO EXISTING MARKINGS

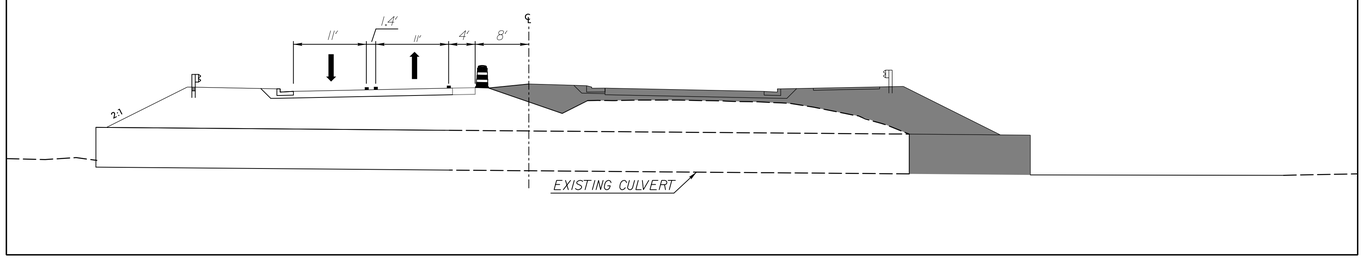
24" RCP
1 DIRECTION ONLY

CAT-1
GREU TL-3

P1 P3 P4 P13 P40 P79

A

SECTION A-A -L- STA. 104+19



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TRANSPORTATION MANAGEMENT PLAN

PHASE III DETAIL

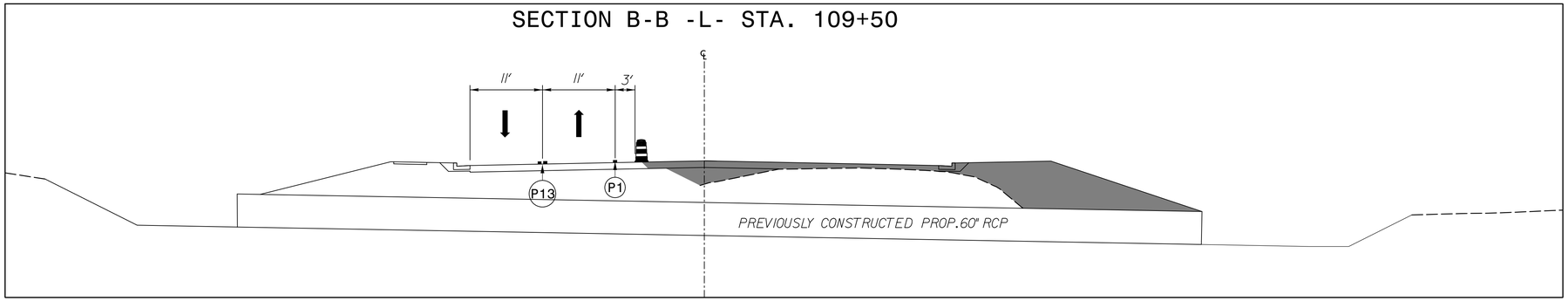
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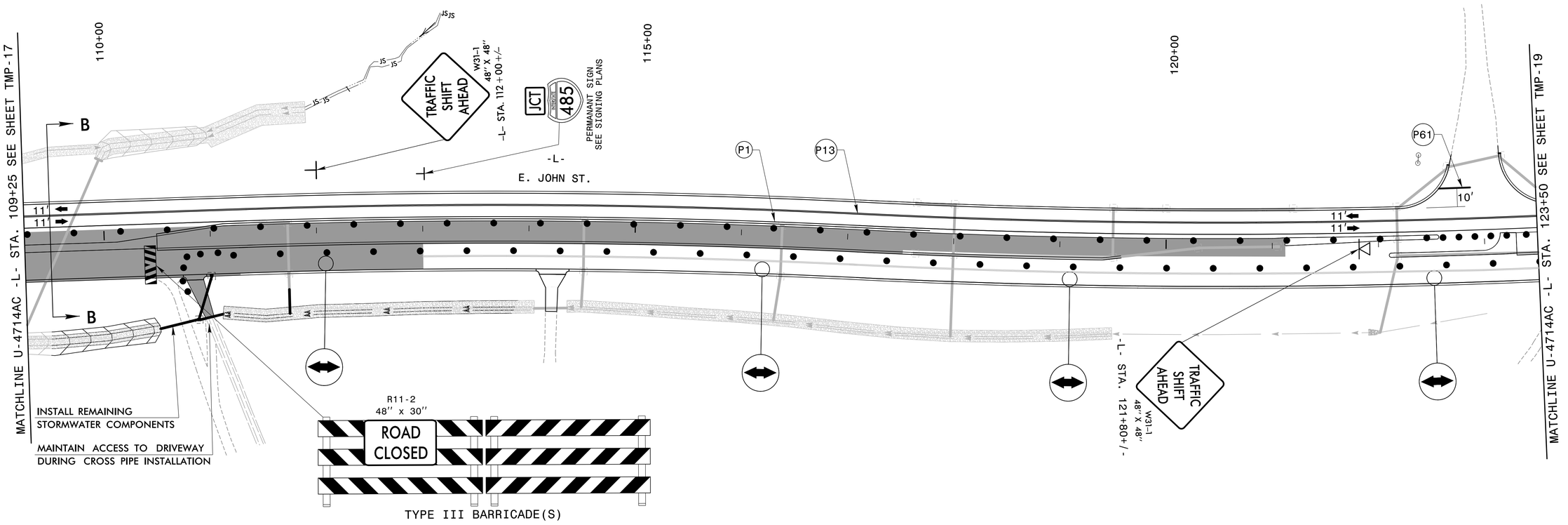
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U-4714AC	TMP-18

SECTION B-B -L- STA. 109+50



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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-19

NAD 83/NA 2011

R11-2
48'' x 30''

A

ROAD CLOSED

TYPE III BARRICADE(S)

MATCHLINE U-4714AC -L- STA. 123+50 SEE SHEET TMP-18

MATCHLINE U-4714AC -L- STA. 137+90 SEE SHEET TMP-20

-L- STA. 125+60+/-
W1-4L
48'' X 48''

-L- STA. 127+10+/-

BEGIN (P4)
-L- STA. 128+35+/-

-L- STA. 129+35+/-

-L-
E. JOHN ST.

END (P4) BEGIN (P2)
-L- STA. 130+45+/-

-L- STA. 131+95+/-

-Y25- STA. 21+00+/-

-Y25- STA. 21+85+/-

-Y25- STA. 22+00+/-

-Y25- STA. 24+15+/-

MCKEE RD

RELOCATE

STOP

-L- STA. 132+75+/-

END (P2) BEGIN (P4)
-L- STA. 135+25+/-

END (P4)
-L- STA. 137+10+/-

-L- STA. 133+05+/-

30" RCP

INSTALL REMAINING
STORM WATER COMPONENTS

INSTALL REMAINING
STORM WATER COMPONENTS

MORNINGWOOD DR

18" RCP

15" RCP

SECTION C-C -L- STA. 133+50

11′ 11′ 5.5′ 11′ 4′ 5.5′

3′

P2 P13 P13 P1

TEMP PAVEMENT

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TRANSPORTATION MANAGEMENT PLAN

PHASE III DETAIL

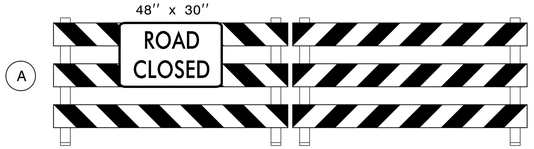
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-20

R11-2
48" x 30"



A

TYPE III BARRICADE(S)

NAD 83/NA 2011

MATCHLINE U-4714AC -L- STA. 137+90 SEE SHEET TMP-19

-L- STA. 139+10+/-

RELOCATE

-L- STA. 141+60+/-

-L- STA. 142+00+/-

INSTALL REMAINING
STORM WATER COMPONENTS

-L- STA. 145+80+/-
RELOCATE

-L- STA. 145+30+/-

-L-
E. JOHN ST.

D

UNION COUNTY
MECKLENBURG COUNTY

ANN ST

-Y28- STA. 12+05+/-

-L- STA. 149+90+/-

-L- STA. 150+45+/-

-L- STA. 151+60+/-

P1 P13 P61 C A

11' 10'

STOP
RELOCATE

RELOCATE
SPEED LIMIT
35

-Y26- STA. 11+65+/-

-Y27- STA. 11+45+/-

-Y29- STA. 11+50+/-

FOREST MONT DR

FRIENDSHIP DR

AURORA BLVD

INSTALL CROSS PIPE
USING TEMPORARY
LANE CLOSURES

18" HDPE
DIRECTION
ONLY

24" CMP

15" RCP

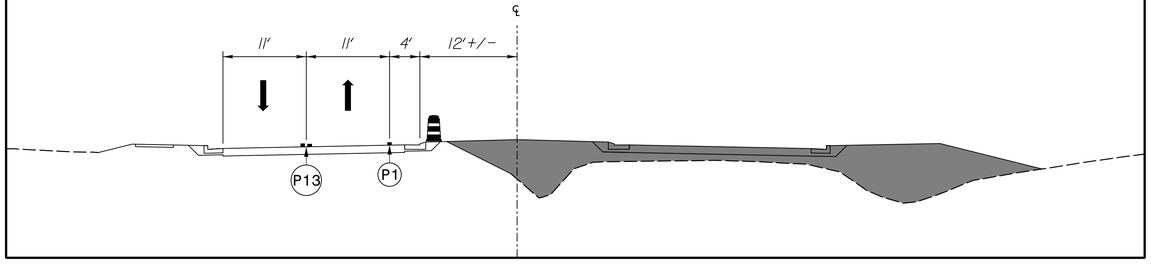
15" CMP

12" RCP

12" TCP

MATCHLINE U-4714AC -L- STA. 152+25 SEE SHEET TMP-21

SECTION D-D -L- STA. 143+00



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

TRANSPORTATION
MANAGEMENT PLAN

PHASE III
DETAIL

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-21

U-4714AC -L- STA. 152+25 SEE SHEET TMP-20

NAD 83/NA 2011

CAMPUS RIDGE RD

STALLINGS RD

OLD MONROE RD

POTTER RD

-Y1- STA. 12+85+/-

-Y1- STA. 12+85+/-

-Y1- STA. 12+85+/-

-L- STA. 154+30+/-

-Y2- STA. 13+50 SEE INSET A

-Y2- STA. 12+85+/-

-Y2- STA. 12+65+/-

-Y1A- STA. 15+45+/-

-Y2- STA. 10+65+/-

INSTALL REMAINING
STORM WATER COMPONENTS

END P4
-L- STA. 163+60+/-

-L- STA. 165+35+/-
TIE TO EXISTING MARKINGS

-L- STA. 167+30+/-

-L- STA. 159+00+/-

-L- STA. 158+75+/-

-L- STA. 155+80+/-

-L- STA. 156+25+/-

-L- STA. 156+50+/-

-L- STA. 157+00+/-

-Y2A- STA. 10+30+/-

-L- STA. 160+25+/-

-Y2A- STA. 14+50+/-

-Y2A- STA. 16+05+/-

-Y2A- STA. 16+65+/-

-Y2A- STA. 14+25+/-

-Y2A- STA. 15+00+/-

-Y2A- STA. 11+85+/-

RELOCATE SPEED LIMIT 35

RELOCATE STOP

TEMP

15" RCP

18" RCP

6" DIP DIRECTION ONLY

6" PVC DIRECTION ONLY

4'±

SIDEWALK CLOSED

R9-9
24" X 12"

5' MIN

2"MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

PLACE TUBULAR MARKERS 2' OFF EDGE
LINE ALONG PEDESTRIAN PATH AT 10' SPACING

R11-2
48" x 30"

ROAD CLOSED

TYPE III BARRICADE(S)

W1-6R
48" x 24"

TYPE III BARRICADE

-Y2- STA. 16+55+/-

15+00

-Y2- STA. 14+35+/-

-Y2- STA. 14+10+/-

INSET A

SECTION E-E -Y2A- STA. 12+00

WORK AREA

3' 11' 11' 11' 2' 5'

2:1

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

TRANSPORTATION
MANAGEMENT PLAN

PHASE III
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-22

NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.

NAD 83/NA 2011

CAMPUS RIDGE RD

-Y1-

-Y1A-

-L- STA. 158+75+/-
TIE TO EXISTING MARKINGS

-L-
OLD MONROE RD

-Y2- STA. 12+60+/-
TIE TO EXISTING MARKINGS

STALLINGS RD

-Y2-

-Y2- STA. 10+60+/-

-L- STA. 160+70+/-
TIE TO EXISTING MARKINGS

-L- STA. 161+25+/-
TIE TO EXISTING MARKINGS

END P4
-L- STA. 163+50+/-

-L- STA. 165+15+/-

-L- STA. 157+25+/-

-Y2A- STA. 10+20+/-

-Y2A- STA. 12+45+/-

-Y2A- STA. 14+00+/-

-Y2A- STA. 15+00

-Y2A- STA. 16+65+/-

-Y2B-

POTTER RD

INSTALL REMAINING
STORM WATER COMPONENTS

INSTALL REMAINING
STORM WATER COMPONENTS
SEE NOTE 1

-Y2A- STA. 13+50+/-

-Y2A- STA. 13+80+/-

INSTALL REMAINING
STORM WATER COMPONENTS
SEE NOTE 1

STOP
R1-1

15" RCP

18" RCP

6' DIP
DIRECTIONS
ONLY

6' PIPE
DIRECTIONS
ONLY

18" Culvert

MATCHLINE U-4714AC -L- STA. 166+50 SEE SHEET TMP-23

A

R11-2
48" x 30"
ROAD CLOSED

TYPE III BARRICADE(S)

B

4'±
SIDEWALK CLOSED
R9-9
24" X 12"
5' MIN
2"MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

C

R11-2
48" x 30"
ROAD CLOSED
W1-6R
48" x 24"

TYPE III BARRICADE

D

R11-2
48" x 30"
ROAD CLOSED
W1-6L
48" x 24"

TYPE III BARRICADE

SECTION A-A -Y2A- STA. 12+00

11' 11' 11' WORK AREA

P2 P13 P1

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
MANAGEMENT PLAN

PHASE IIIA
DETAIL

10/9/2026
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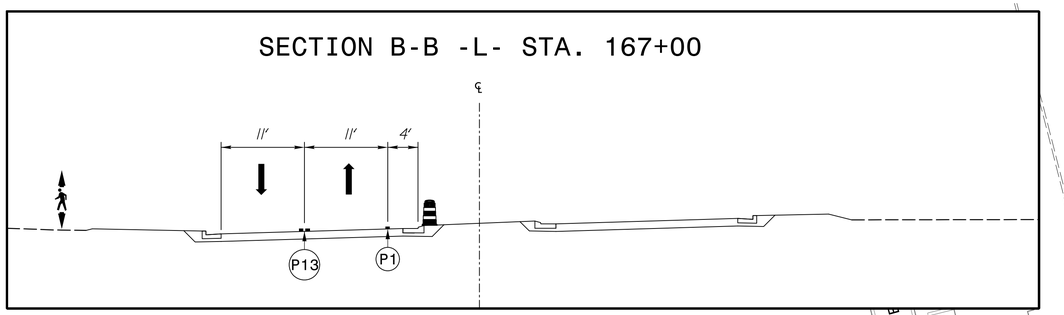
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-23

NAD 83/NA 2011

SECTION B-B -L- STA. 167+00



MATCHLINE U-4714AC -L- STA. 166+50 SEE SHEET TMP-22

MATCHLINE U-4714AC -L- STA. 180+00 SEE SHEET TMP-24

170+00

175+00

PARKVIEW DR

WINTREE CT

KERRY GREENS DR

OLD MONROE RD

PLEASANT PLAINS RD

RELOCATE

STOP

SPEED LIMIT 35

SEE NOTE 1

-Y30- STA. 12+20+/-

-Y30- STA. 13+45+/-

-Y31- STA. 14+85+/-

-Y31- STA. 15+30+/-

-Y31- 15+00

-L- STA. 175+65+/-

-L- STA. 176+65+/-

-L- STA. 176+95+/-

-L- STA. 177+65+/-

-L- STA. 178+30+/-

-L- STA. 179+30+/-

-L- STA. 175+90+/-

-L- STA. 174+90+/-

-L- STA. 173+85+/-

-L- STA. 173+20+/-

-L- STA. 171+70+/-

-L- STA. 170+20+/-

-L- STA. 168+10+/-

-Y3- STA. 10+75+/-
TIE TO EXISTING MARKINGS

-Y3- 15+00

B

A

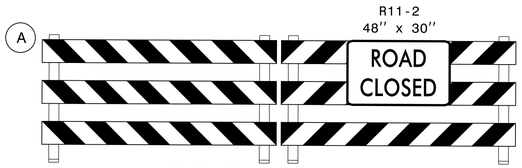
P1 P2 P4 P5 P13 P42 P45 P61 P70

15" CMP 18" CMP 24" CMP

15" RCP 18" RCP 18" HDPE 24" RCP

12" RCP 12½" RCP

TYPE III BARRICADE(S)



NOTE:
1) INSTALL STORMWATER PIPE AND/ OR STORMWATER COMPONENTS USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 19.

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NORTH CAROLINA PROFESSIONAL SEAL 025465 ENGINEER TIM AREY

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

TRANSPORTATION MANAGEMENT PLAN

PHASE IIIA DETAIL

8/12/2026
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-24

NAD 83/NA 2011

-Y33- 10+00

185+00

-L- STA. 180+35+/-

-Y33- STA. 12+30+/-

-L- STA. 181+15+/-

-L- STA. 182+00+/-

-L- STA. 183+50+/-

-L- STA. 184+30+/-

-L- STA. 190+00+/-

-L- STA. 192+40+/-

-L- STA. 192+65+/-

-L- STA. 192+90+/-

-L- STA. 193+50+/-

-L- OLD MONROE RD

SPEED LIMIT 35 RELOCATE

SPEED LIMIT 45 RELOCATE

INSTALL REMAINING STORM WATER COMPONENTS

MATCHLINE U-4714AC -L- STA. 180+00 SEE SHEET TMP-23

-Y3- STA. 10+75+/-

-Y35- STA. 11+35+/-

RHODERIA DR -Y34-

SWEETBRIAR DR

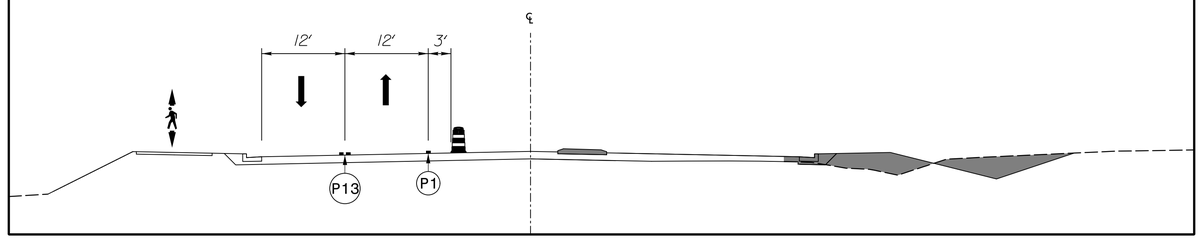
STOP RELOCATE

END TIP PROJECT U-4714AC
-L- POT STA. 193+50.61 =
BEGIN TIP PROJECT U-4714BA
-L- STA. 10+00.00

R11-2
48'' x 30''
ROAD CLOSED

TYPE III BARRICADE(S)

SECTION C-C -L- STA. 189+00



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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-25

NAD 83/NA 2011

A
4'±
SIDEWALK CLOSED
R9-9
24" X 12"
5' MIN
2"MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

95+00 100+00 105+00

END P4
-L- STA. 98+80+/-

END P2 BEGIN P4
-L- STA. 98+75+/-

SPEED LIMIT 35
PERMANANT SIGN
SEE SIGNING PLANS

END P4 BEGIN P1
-L- STA. 100+30+/-

BEGIN P4 END P2
-L- STA. 98+75+/-

INNER 485 Pineville
OUTER 485 Huntersville
PERMANANT SIGN
SEE SIGNING PLANS

-L- STA. 98+80+/-

END P2 BEGIN P4
-L- STA. 96+65+/-
TIE TO EXISTING MARKINGS

BEGIN P1
-L- STA. 101+04+/-

END P1
-L- STA. 103+62+/-

OUTER 485 Huntersville
NEXT RIGHT
PERMANANT SIGN
SEE SIGNING PLANS

END P10 BEGIN P40
-L- STA. 105+37+/-

PERMANANT SIGN
SEE SIGNING PLANS

-L-
E. JOHN ST.

GREU TL-3
CAT-1

12' 12' 12' 12' 12' 11' 12'

P2 P71 P3 P4 P77 P40 P77

P10 P79 P79 P79 P14 P5 P10

RIGHT LANE ENDS

END P3 BEGIN P4
-L- STA. 100+00+/-

PERMANANT SIGN
SEE SIGNING PLANS

SPEED LIMIT 45

R11-2
48" x 30"
ROAD CLOSED
W1-6R
48" x 24"
TYPE III BARRICADE

END P1
-L- STA. 104+20+/-

PERMANANT SIGN
SEE SIGNING PLANS

END P14 BEGIN P10
-L- STA. 106+08+/-

END P10 BEGIN P14
-L- STA. 105+50+/-

END P7
-L- STA. 107+70+/-

BEGIN P3
-L- STA. 97+30+/-
TIE TO EXISTING MARKINGS

24" RCP
1 DIRECTION ONLY

MATCHLINE U-4714AC -L- STA. 109+25 SEE SHEET TMP-26

SECTION A-A -L- STA. 104+19

12' 3' 3' 12'
P10 P10

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-26

NAD 83/NA 2011

110+00

115+00

120+00

MATCHLINE U-4714AC -L- STA. 109+25 SEE SHEET TMP-25

END P40 BEGIN P4
-L- STA. 109+51+/-

END P4 BEGIN P10
-L- STA. 111+12+/-

JCT NYSTONE 485

-L-
E. JOHN ST.

END P14 BEGIN P10
-L- STA. 123+14+/-

PERMANANT SIGN SEE SIGNING PLANS

STOP
ONE WAY

SUBSTATION ACCESS

-L- STA. 121+12+/-

END P10 BEGIN P14
-L- STA. 122+58+/-

12'
11'
12'

B

P4 P77 P10 P10 P77 P10 P14

P4 P40 P77

END P10 BEGIN P4
-L- STA. 119+39+/-

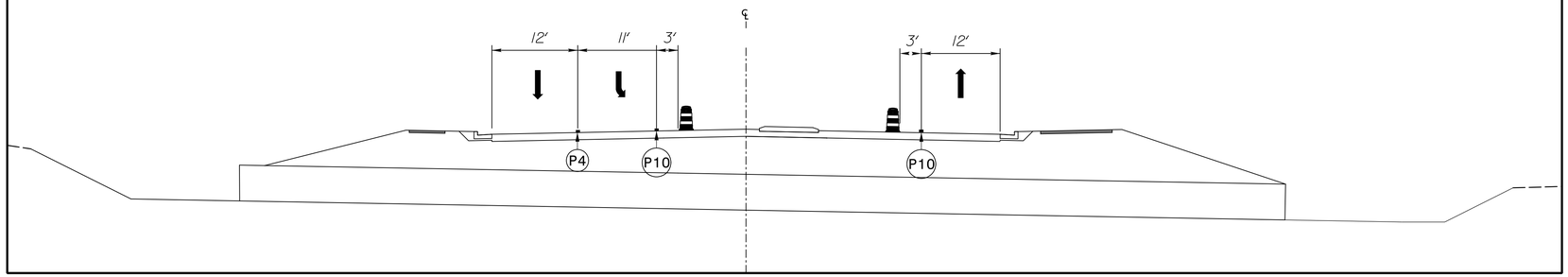
END P4 BEGIN P40
-L- STA. 120+32+/-

PERMANANT SIGN SEE SIGNING PLANS

END P40 BEGIN P10
-L- STA. 123+29+/-

MATCHLINE U-4714AC -L- STA. 123+50 SEE SHEET TMP-27

SECTION B-B -L- STA. 109+50



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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-27

NAD 83/NA 2011

MATCHLINE U-4714AC -L- STA. 123+50 SEE SHEET TMP-27

MATCHLINE U-4714AC -L- STA. 137+90 SEE SHEET TMP-28

125+00

130+00

135+00

END P1 AND P13
-Y25- STA. 21+00+/-
TIE TO EXISTING MARKINGS

MCKEE RD

12′

11′

P71

P13

P2

-Y25-

END P40 BEGIN P4
-L- STA. 131+09+/-

END P4 BEGIN P1
-L- STA. 132+09+/-

-L- STA.134+00+/-
END P2
TIE TO EXISTING MARKINGS

-L- STA. 127+35+/-

-L-
E. JOHN ST.

PERMANANT SIGN
SEE SIGNING PLANS

-L- STA. 128+65+/-

C

P10

P77

P40

P4

P103

P14

P5

P1

END P14 BEGIN P10
-L- STA. 128+03+/-

END P10
-L- STA. 130+00+/-

BEGIN P5
-L- STA. 127+35+/-

END P10 BEGIN P14
-L- STA. 127+50+/-

PERMANANT SIGN
SEE SIGNING PLANS
END P1

30" RCP

PERMANANT SIGN
SEE SIGNING PLANS
SPEED LIMIT 35

BEGIN P4
-L- STA. 135+61+/-

FUTURE U-4713A MCKEE RD EXTENSION
(CONSTRUCTED BY OTHERS; ANTICIPATED
OPEN TO TRAFFIC IN 2028)

P61

P71

ONE WAY

STOP

PERMANANT SIGN
SEE SIGNING PLANS

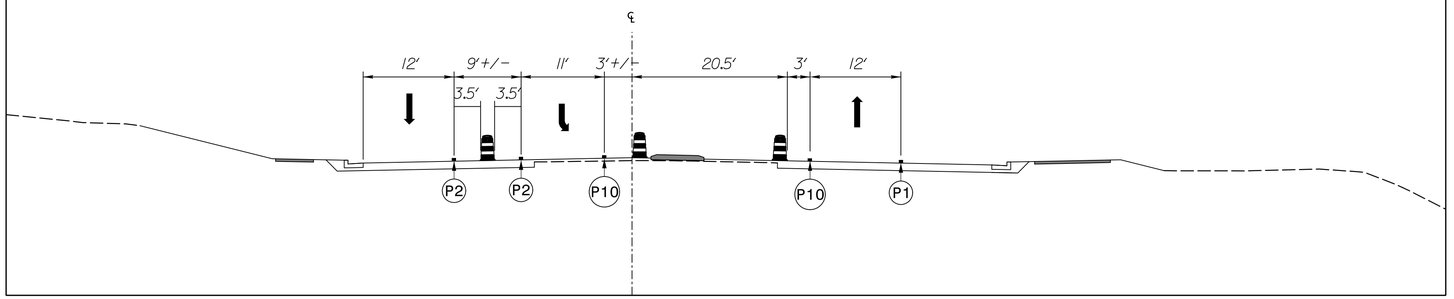
MORNINGWOOD DR

15" RCP

-Y24-

END P4 BEGIN P40
-L- STA. 137+83+/-

SECTION C-C -L- STA. 130+00



NOTE :SEE FINAL PAVEMENT MARKING PLANS FOR TEMPORARY MARKING LOCATIONS UNLESS OTHERWISE NOTED

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PHASE IV DETAIL

10/9/2026
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-28

NAD 83/NA 2011

MATCHLINE U-4714AC -L- STA. 137+90 SEE SHEET TMP-27

140+00

145+00

150+00

UNION COUNTY
MECKLENBURG COUNTY

BEGIN P5
-L- STA. 139+10+/-

END P10 BEGIN P14
-L- STA. 140+80+/-

END P14 BEGIN P10
-L- STA. 141+45+/-

END P5
-L- STA. 141+60+/-

-L-
E. JOHN ST.

12′
12′
12′

P10 P77 P5 P14 P40 P1

PERMANENT SIGN
SEE SIGNING PLANS

END P40 BEGIN P10
-L- STA. 141+65+/-

FORESTMONT DR

P61 P71 P10

ONE WAY

STOP

PERMANENT SIGN
SEE SIGNING PLANS

SPEED LIMIT 45
PERMANENT SIGN
SEE SIGNING PLANS

D

-L-
OLD MONROE RD

ANN ST

-L-

P61 P10 P5 P1

12′
12′

STOP
ONE WAY
PERMANENT SIGN
SEE SIGNING PLANS

SPEED LIMIT 35
PERMANENT SIGN
SEE SIGNING PLANS

FRIENDSHIP DR

P10 P61 P71

ONE WAY

STOP

PERMANENT SIGN
SEE SIGNING PLANS

BEGIN P4
-L- STA. 152+16+/-

P10 P61 P71 P4

ONE WAY

STOP

PERMANENT SIGN
SEE SIGNING PLANS

AURORA BLVD

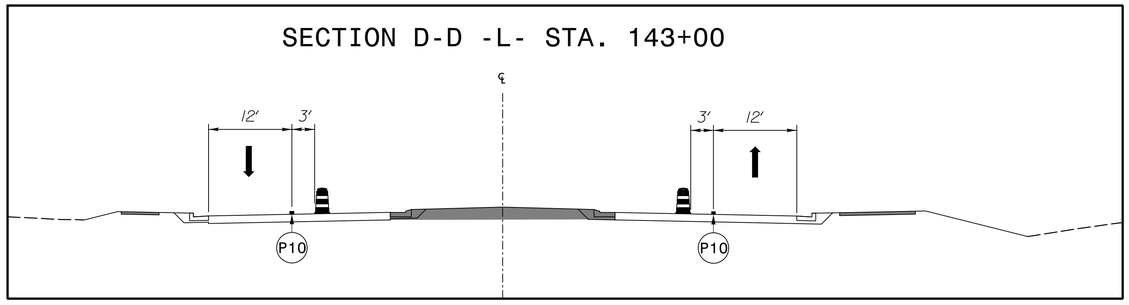
4′±
5′ MIN
SIDEWALK CLOSED
R9-9
24″ X 12″
2″MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

MATCHLINE U-4714AC -L- STA. 152+25 SEE SHEET TMP-29

15" RCP
15" CMP
-Y26-
-Y27-
-Y29-
-L8-
2" TCP
12" RCP
24" RCP
18" RCP

SECTION D-D -L- STA. 143+00



NOTE : SEE FINAL PAVEMENT MARKING PLANS FOR TEMPORARY MARKING LOCATIONS UNLESS OTHERWISE NOTED

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TRANSPORTATION MANAGEMENT PLAN

PHASE IV DETAIL

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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-29

-Y2- STA. 13+50 SEE INSET A

NAD 83/NA 2011

MATCHLINE U-4714AC -L- STA. 152+50 SEE SHEET TMP-28

MATCHLINE U-4714AC -L- STA. 166+50 SEE SHEET TMP-30

SEE PAVEMENT MARKING PLANS
FOR PERMANENT PAVEMENT MARKINGS

CAMPUS RIDGE RD

-L- OLD MONROE RD

POTTER RD

-Y1A-

-Y2-

-Y2A-

-Y2B-

-Y1C-

TEMP I

END P5 BEGIN P1
-L- STA. 154+54+/-

BEGIN P5
-L- STA. 153+25+/-

END P4 BEGIN P1
-L- STA. 158+78+/-

END P1 BEGIN P4
-L- STA. 155+97+/-

END P2 BEGIN P40
-L- STA. 159+03+/-

END P4 BEGIN P2
-L- STA. 156+75+/-

-L- STA. 160+35+/-

END P4 BEGIN P1
-L- STA. 163+24+/-

-Y2- STA. 11+70+/-

-Y2- STA. 10+70+/-

-Y2A- 15+00

PERMANENT SIGN SEE SIGNING PLANS

PERMANENT SIGN SEE SIGNING PLANS

PERMANANT SIGN SEE SIGNING PLANS

PERMANANT SIGN SEE SIGNING PLANS

PERMANANT SIGN SEE SIGNING PLANS

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PERMANANT SIGN SEE SIGNING PLANS

PERMANANT SIGN SEE SIGNING PLANS

PERMANENT SIGN SEE SIGNING PLANS

PERMANENT SIGN SEE SIGNING PLANS

SPEED LIMIT 35

ONE WAY

YIELD

STOP

6" DIP DIRECTIONAL ONLY

15" RCP

18" RCP

-Y2- STA. 16+55+/-
TIE TO EXISTING MARKINGS

SEE PAVEMENT MARKING PLANS FOR PERMANENT PAVEMENT MARKINGS

-Y2- STA. 14+86+/-

-Y1A- 15+00

-Y2- 15+00

INSTALL MONOLITHIC ISLAND
UTILIZING A FLAGGING OPERATION

INSET A

A

4'±
SIDEWALK CLOSED
R9-9
24'' X 12''
5' MIN
2"MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

NOTE: SEE FINAL PAVEMENT MARKING PLANS FOR TEMPORARY MARKING LOCATIONS UNLESS OTHERWISE NOTED

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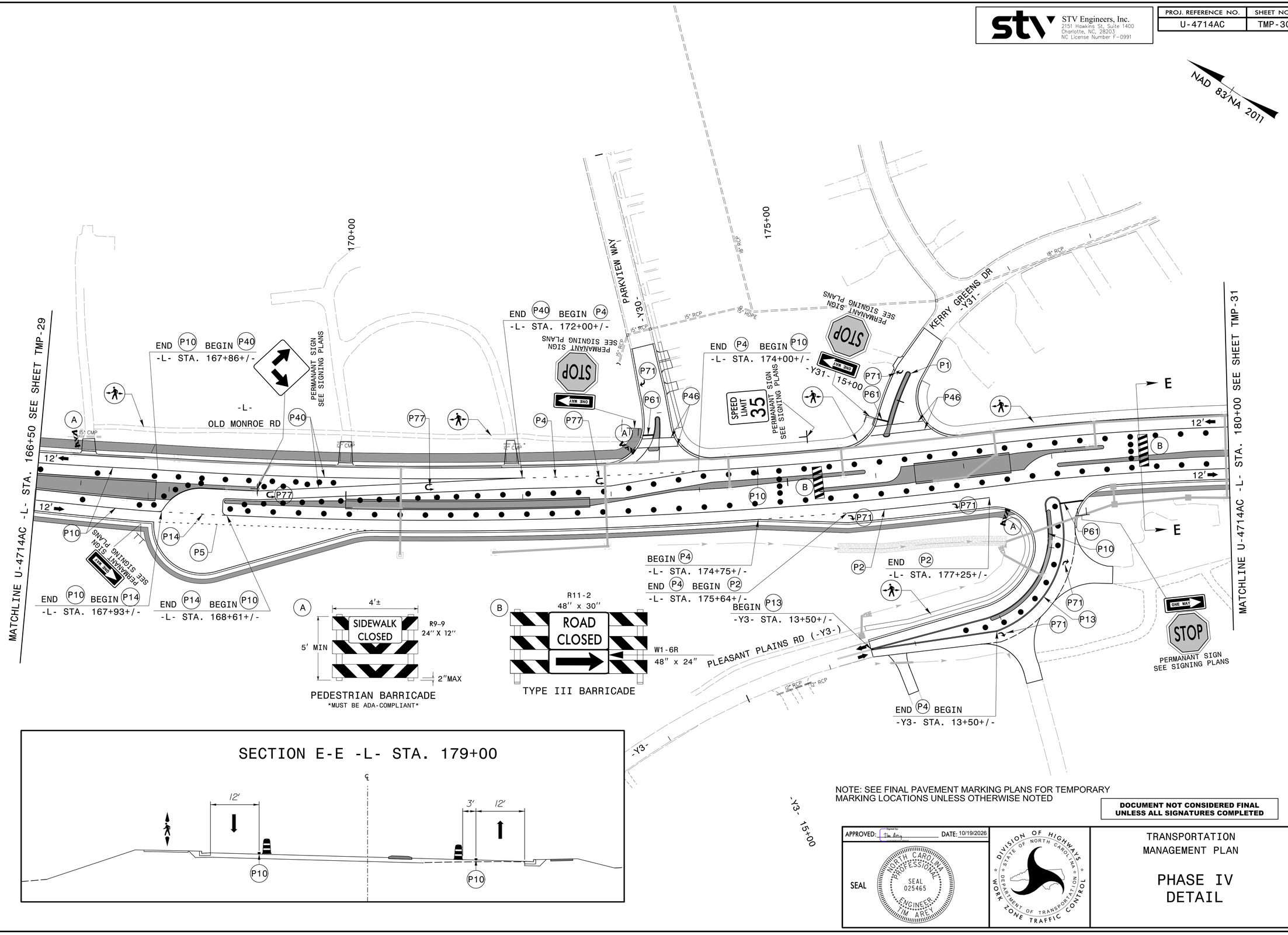
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-30

NAD 83/NA 2011



A

4'±

SIDEWALK CLOSED

R9-9
24" X 12"

5' MIN

2"MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

B

R11-2
48" x 30"

ROAD CLOSED

W1-6R
48" x 24"

TYPE III BARRICADE

SECTION E-E -L- STA. 179+00

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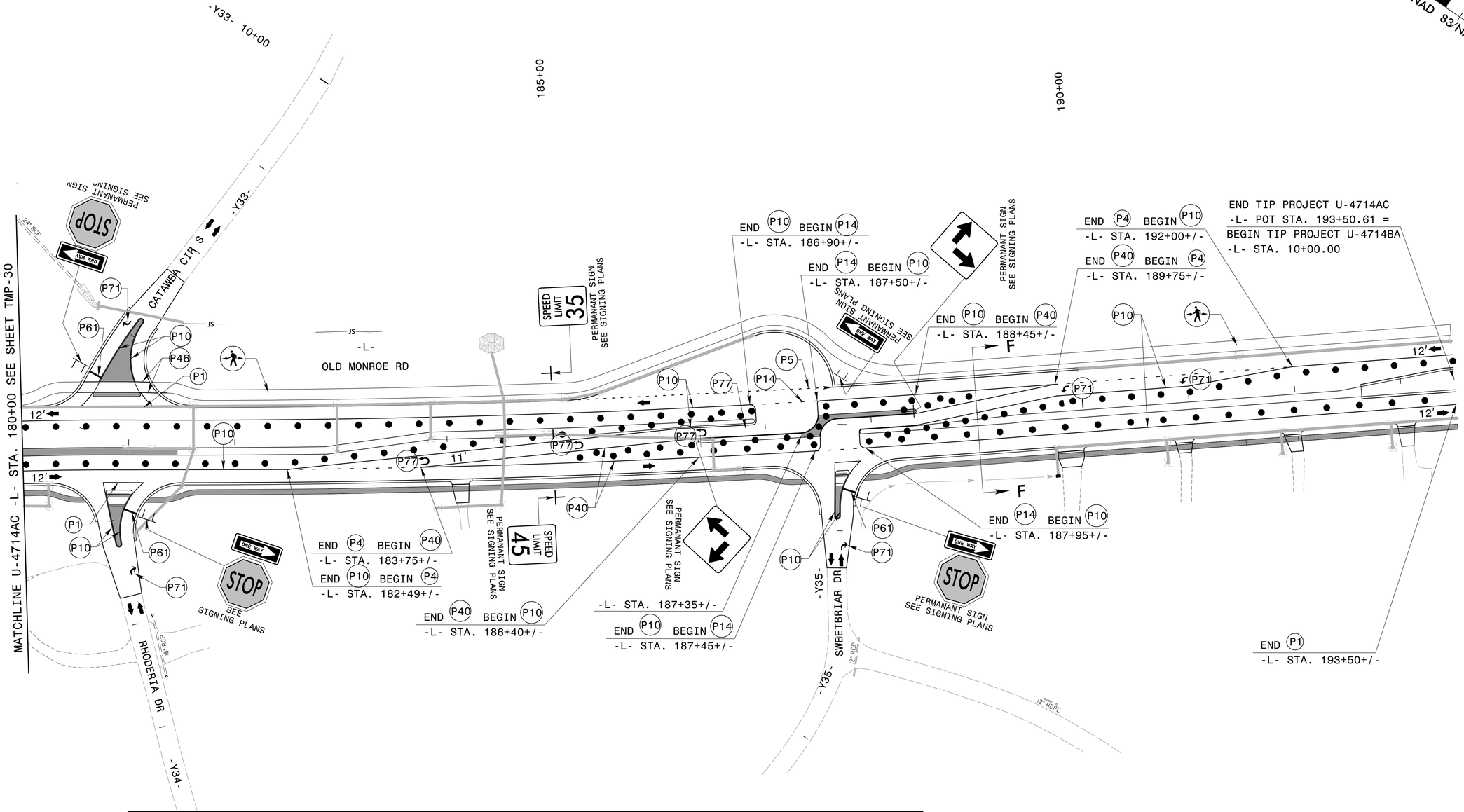
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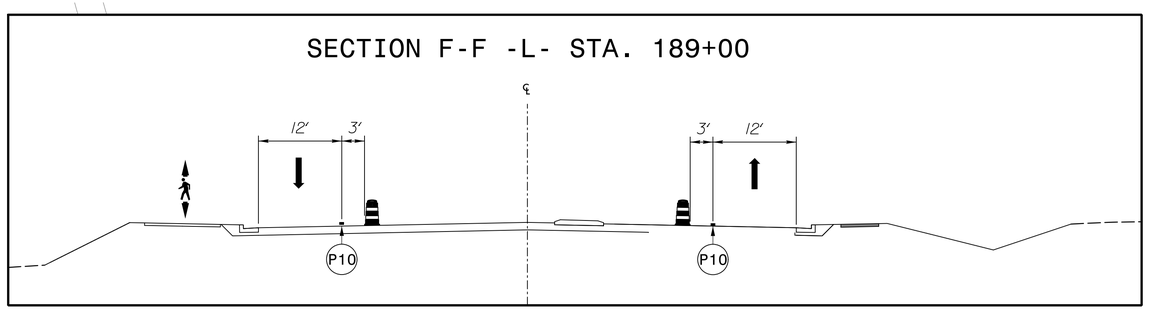
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-31

NAD 83/NA 2011



SECTION F-F -L- STA. 189+00



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