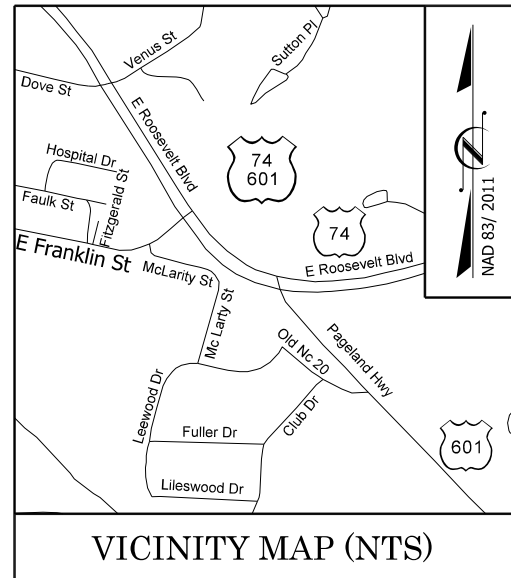


See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

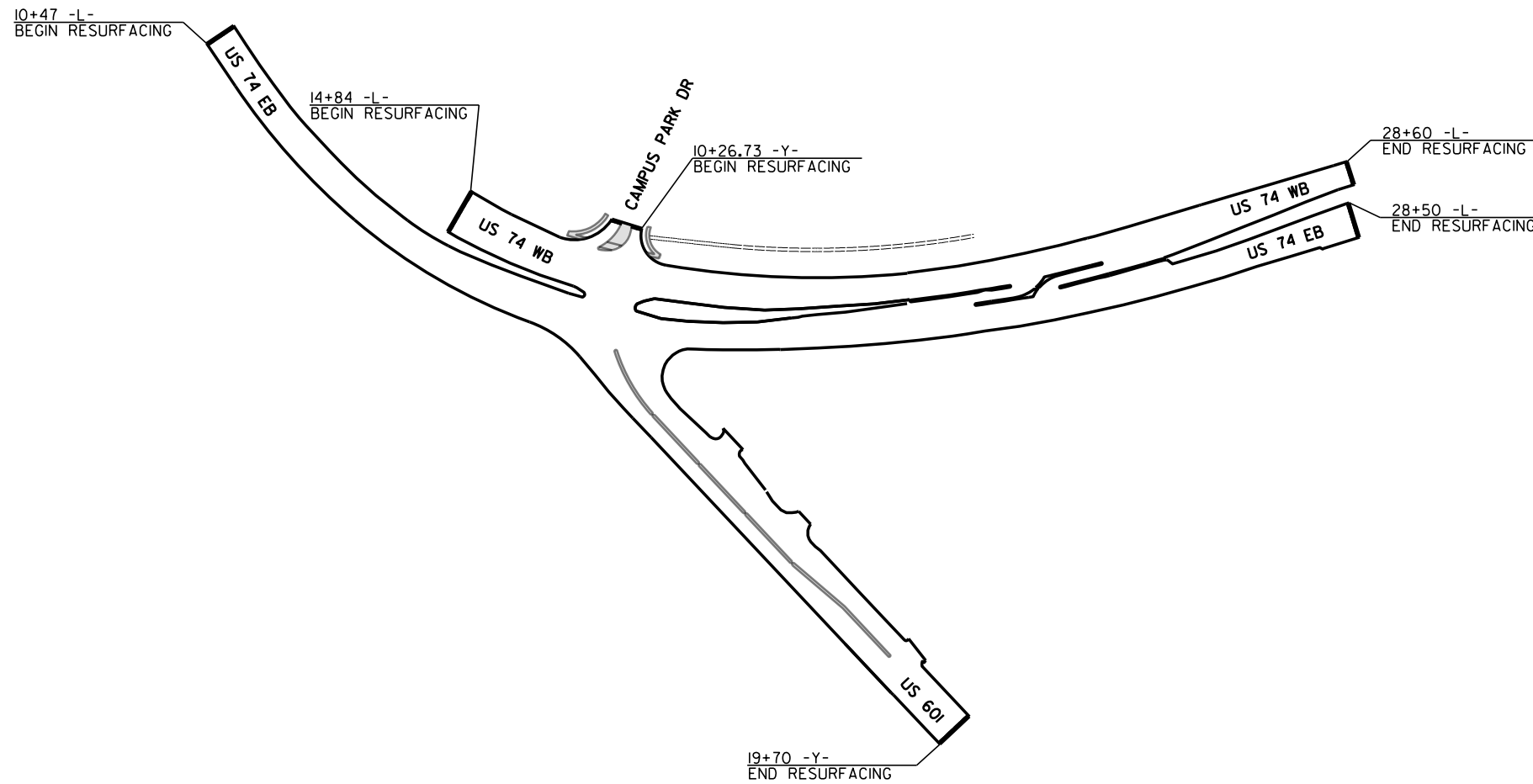
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UNION COUNTY

LOCATION: *US 74 & US 601 SOUTH*

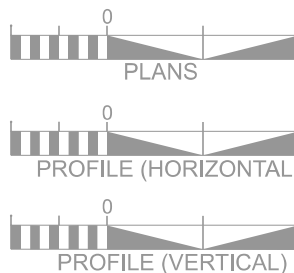
TYPE OF WORK: *GRADING, PAVING, MONOLITHIC CONCRETE ISLAND, CURB AND GUTTER, THERMOPLASTIC, PAVEMENT MARKINGS. AND SIGNALS.*

|                 |                             |             |              |
|-----------------|-----------------------------|-------------|--------------|
| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
| N.C.            | 51683                       | 1           |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION |              |
| 51683           |                             | PE          |              |
| 51683           |                             | RW          |              |
| 51683           |                             | CON         |              |



WBS: 51683

**GRAPHIC SCALES**



**DESIGN DATA**

ADT =  
ADT =  
K = %  
D = %  
T = % \*  
V = MPH  
\* TTST = DUAL  
FUNC CLASS =  
TIER

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT 51683 = 0.78 MILES  
TOTAL LENGTH OF PROJECT 51683 = 0.78 MILES

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

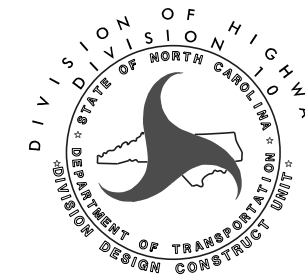
2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
12/12/2025

LETTING DATE:  
5/6/2026

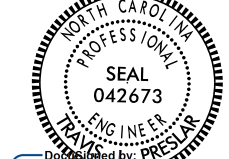
**DONALD HARWARD**  
PROJECT ENGINEER

**DONALD HARWARD**  
PROJECT DESIGN ENGINEER



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

04/13/2026



APPROVED BY: *Travis Preslar*  
AS3C1AC7A1FF47B...

APPROVED BY: DIVISION PROJECT TEAM LEAD DATE: P.E. DATE:

Note: Not to Scale

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

51683  
SYM DIA

## BOUNDARIES AND PROPERTY:

|                                       |  |
|---------------------------------------|--|
| State Line                            |  |
| County Line                           |  |
| Township Line                         |  |
| City Line                             |  |
| Reservation Line                      |  |
| Property Line                         |  |
| Existing Iron Pin (EIP)               |  |
| Computed Property Corner              |  |
| Existing Concrete Monument (ECM)      |  |
| Parcel / Sequence Number              |  |
| Existing Fence Line                   |  |
| Proposed Woven Wire Fence             |  |
| Proposed Chain Link Fence             |  |
| Proposed Barbed Wire Fence            |  |
| Existing Wetland Boundary             |  |
| Proposed Wetland Boundary             |  |
| Existing Endangered Animal Boundary   |  |
| Existing Endangered Plant Boundary    |  |
| Existing Historic Property Boundary   |  |
| Known Contamination Area: Soil        |  |
| Potential Contamination Area: Soil    |  |
| Known Contamination Area: Water       |  |
| Potential Contamination Area: Water   |  |
| Contaminated Site: Known or Potential |  |

## BUILDINGS AND OTHER CULTURE:

|                               |  |
|-------------------------------|--|
| Gas Pump Vent or U/G Tank Cap |  |
| Sign                          |  |
| Well                          |  |
| Small Mine                    |  |
| Foundation                    |  |
| Area Outline                  |  |
| Cemetery                      |  |
| Building                      |  |
| School                        |  |
| Church                        |  |
| Dam                           |  |

## HYDROLOGY:

|                                    |  |
|------------------------------------|--|
| Stream or Body of Water            |  |
| Hydro, Pool or Reservoir           |  |
| Jurisdictional Stream              |  |
| Buffer Zone 1                      |  |
| Buffer Zone 2                      |  |
| Flow Arrow                         |  |
| Disappearing Stream                |  |
| Spring                             |  |
| Wetland                            |  |
| Proposed Lateral, Tail, Head Ditch |  |
| False Sump                         |  |

## RAILROADS:

|                    |  |
|--------------------|--|
| Standard Gauge     |  |
| RR Signal Milepost |  |
| Switch             |  |
| RR Abandoned       |  |
| RR Dismantled      |  |

## RIGHT OF WAY & PROJECT CONTROL:

|  |  |
|--|--|
| Primary Horiz Control Point                          |  |
| Primary Horiz and Vert Control Point                 |  |
| Secondary Horiz and Vert Control Point               |  |
| Vertical Benchmark                                   |  |
| Existing Right of Way Monument                       |  |
| Proposed Right of Way Monument (Rebar and Cap)       |  |
| Proposed Right of Way Monument (Concrete)            |  |
| Existing Permanent Easement Monument                 |  |
| Proposed Permanent Easement Monument (Rebar and Cap) |  |
| Existing C/A Monument                                |  |
| Proposed C/A Monument (Rebar and Cap)                |  |
| Proposed C/A Monument (Concrete)                     |  |
| Existing Right of Way Line                           |  |
| Proposed Right of Way Line                           |  |
| Existing Control of Access Line                      |  |
| Proposed Control of Access Line                      |  |
| Proposed ROW and CA Line                             |  |
| Existing Easement Line                               |  |
| Proposed Temporary Construction Easement             |  |
| Permanent Construction Easement                      |  |
| Proposed Temporary Drainage Easement                 |  |
| Proposed Permanent Drainage Easement                 |  |
| Proposed Permanent Drainage/Utility Easement         |  |
| Proposed Permanent Utility Easement                  |  |
| Proposed Temporary Utility Easement                  |  |
| Proposed Aerial Utility Easement                     |  |

## ROADS AND RELATED FEATURES:

|                            |  |
|----------------------------|--|
| Existing Edge of Pavement  |  |
| Existing Curb              |  |
| Proposed Slope Stakes Cut  |  |
| Proposed Slope Stakes Fill |  |
| Proposed Curb Ramp         |  |
| Existing Metal Guardrail   |  |
| Proposed Guardrail         |  |
| Existing Cable Guiderail   |  |
| Proposed Cable Guiderail   |  |
| Equality Symbol            |  |
| Pavement Removal           |  |

## VEGETATION:

|              |  |
|--------------|--|
| Single Tree  |  |
| Single Shrub |  |

## CONVENTIONAL PLAN SHEET SYMBOLS

|            |  |
|------------|--|
| Hedge      |  |
| Woods Line |  |
| Orchard    |  |
| Vineyard   |  |

## EXISTING STRUCTURES:

|  |  |
|--|--|
| MAJOR:                                   |  |
| Bridge, Tunnel or Box Culvert            |  |
| Bridge Wing Wall, Head Wall and End Wall |  |
| MINOR:                                   |  |
| Head and End Wall                        |  |
| Pipe Culvert                             |  |
| Footbridge                               |  |
| Drainage Box: Catch Basin, DI or JB      |  |
| Paved Ditch Gutter                       |  |
| Storm Sewer Manhole                      |  |
| Storm Sewer                              |  |

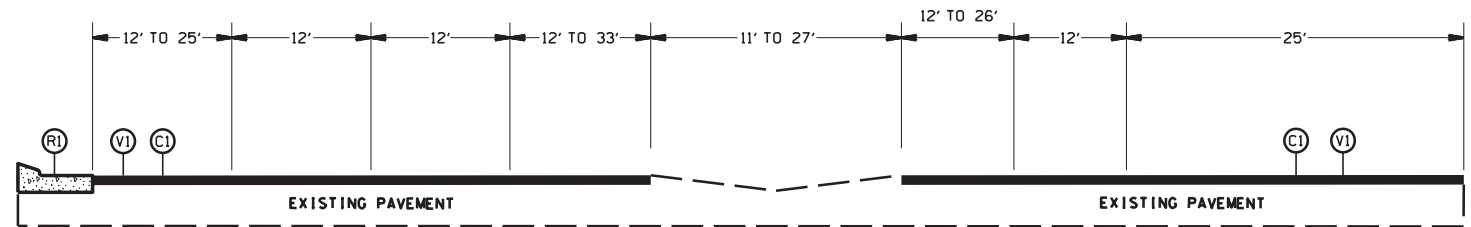
UTILITIES: \* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A,B,C or D (Accuracy)

|   |  |
|---|--|
| POWER:                                  |  |
| Existing Power Pole                     |  |
| Proposed Power Pole                     |  |
| Existing Joint Use Pole                 |  |
| Proposed Joint Use Pole                 |  |
| Power Manhole                           |  |
| Power Line Tower                        |  |
| Power Transformer                       |  |
| U/G Power Cable Hand Hole               |  |
| H-Frame Pole                            |  |
| U/G Power Line Test Hole (SUE - LOS A)* |  |
| U/G Power Line (SUE - LOS B)*           |  |
| U/G Power Line (SUE - LOS C)*           |  |
| U/G Power Line (SUE - LOS D)*           |  |

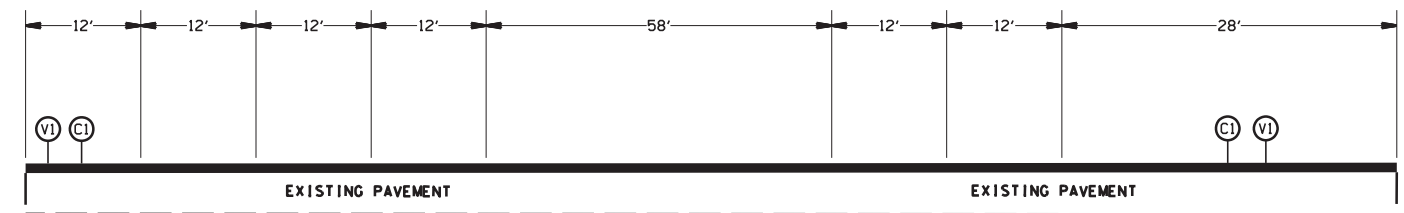
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|--|--|
| TELEPHONE:                             |  |
| Existing Telephone Pole                |  |
| Proposed Telephone Pole                |  |
| Telephone Manhole                      |  |
| Telephone Pedestal                     |  |
| Telephone Cell Tower                   |  |
| U/G Telephone Cable Hand Hole          |  |
| U/G Telephone Test Hole (SUE - LOS A)* |  |
| U/G Telephone Cable (SUE - LOS B)*     |  |
| U/G Telephone Cable (SUE - LOS C)*     |  |
| U/G Telephone Cable (SUE - LOS D)*     |  |
| U/G Telephone Conduit (SUE - LOS B)*   |  |
| U/G Telephone Conduit (SUE - LOS C)*   |  |
| U/G Telephone Conduit (SUE - LOS D)*   |  |
| U/G Fiber Optics Cable (SUE - LOS B)*  |  |
| U/G Fiber Optics Cable (SUE - LOS C)*  |  |
| U/G Fiber Optics Cable (SUE - LOS D)*  |  |

|   |  |
|---|--|
| WATER:                                      |  |
| Water Manhole                               |  |
| Water Meter                                 |  |
| Water Valve                                 |  |
| Water Hydrant                               |  |
| U/G Water Line Test Hole (SUE - LOS A)*     |  |
| U/G Water Line (SUE - LOS B)*               |  |
| U/G Water Line (SUE - LOS C)*               |  |
| U/G Water Line (SUE - LOS D)*               |  |
| Above Ground Water Line                     |  |
| TV:   |  |
| TV Pedestal                                 |  |
| TV Tower                                    |  |
| U/G TV Cable Hand Hole                      |  |
| U/G TV Test Hole (SUE - LOS A)*             |  |
| U/G TV Cable (SUE - LOS B)*                 |  |
| U/G TV Cable (SUE - LOS C)*                 |  |
| U/G TV Cable (SUE - LOS D)*                 |  |
| U/G Fiber Optic Cable (SUE - LOS B)*        |  |
| U/G Fiber Optic Cable (SUE - LOS C)*        |  |
| U/G Fiber Optic Cable (SUE - LOS D)*        |  |
| Above Ground Gas Line                       |  |
| GAS:  |  |
| Gas Valve                                   |  |
| Gas Meter                                   |  |
| U/G Gas Line Test Hole (SUE - LOS A)*       |  |
| U/G Gas Line (SUE - LOS B)*                 |  |
| U/G Gas Line (SUE - LOS C)*                 |  |
| U/G Gas Line (SUE - LOS D)*                 |  |
| Sanitary Sewer:                             |  |
| Sanitary Sewer Manhole                      |  |
| Sanitary Sewer Cleanout                     |  |
| U/G Sanitary Sewer Line                     |  |
| Above Ground Sanitary Sewer                 |  |
| SS Force Main Line Test Hole (SUE - LOS A)* |  |
| SS Force Main Line (SUE - LOS B)*           |  |
| SS Force Main Line (SUE - LOS C)*           |  |
| SS Force Main Line (SUE - LOS D)*           |  |
| MISCELLANEOUS:                              |  |
| Utility Pole                                |  |
| Utility Pole with Base                      |  |
| Utility Located Object                      |  |
| Utility Traffic Signal Box                  |  |
| Utility Unknown U/G Line (SUE - LOS B)*     |  |
| U/G Tank; Water, Gas, Oil                   |  |
| Underground Storage Tank, Approx. Loc.      |  |
| A/G Tank; Water, Gas, Oil                   |  |
| Geoenvironmental Boring                     |  |
| Abandoned According to Utility Records      |  |
| End of Information                          |  |

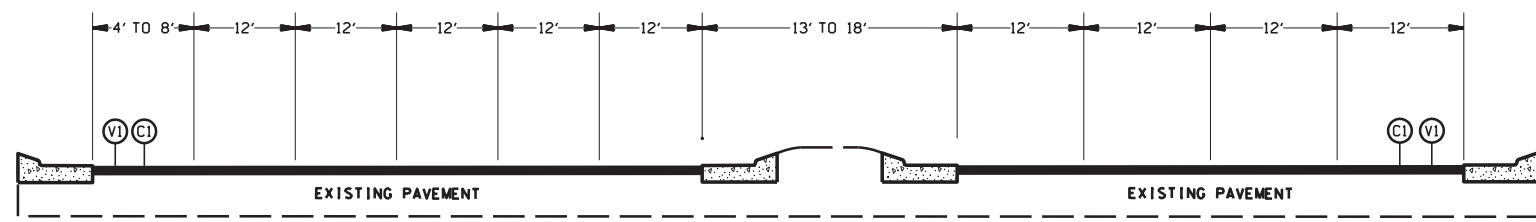
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 NORTH CAROLINA  
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 UNION COUNTY  
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 ROADWAY DESIGN  
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 03/17/2026  
 SEAL  
 042673  
 NORTH CAROLINA PROFESSIONAL ENGINEERING BOARD  
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 UNLESS ALL SIGNATURES COMPLETED



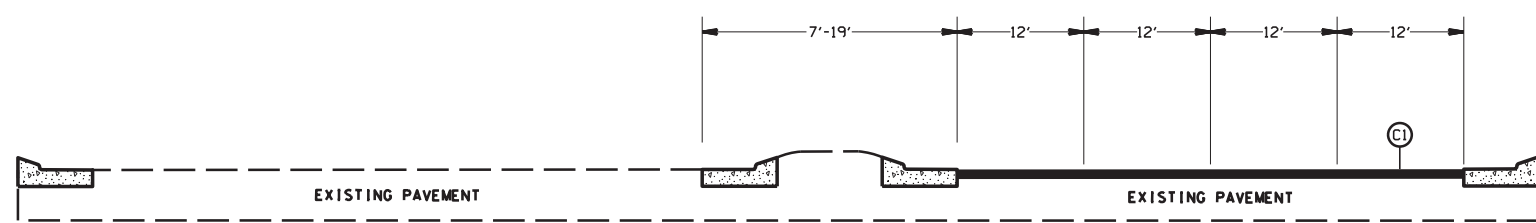
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TYPICAL SECTION NO. 3  
 STA. 17+04 TO 17+79.24 -L-



TYPICAL SECTION NO. 2  
 STA. 14+84 TO 17+04 -L-



TYPICAL SECTION NO. 1  
 STA. 10+47 TO 14+84 -L-

PAVEMENT SCHEDULE

|      |   |
|------|---|
| (C1) | PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.     |
| (R1) | PROP. 2'-9" CONC. CURB & GUTTER   |
| (R2) | PROP. 2'-6" CONC. CURB & GUTTER   |
| (R3) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)  |
| (T)  | EARTH MATERIAL  |
| (V1) | MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH   |

**TIP PROJECT: 51683**  
**County: Union**

ISLAND AND LANE CONFIGURATION ON 601 &  
 LANE CONFIGURATION ON US 74 & 4TH LEG  
 US 74 & US 601 S

|           |         |  |           |
|-----------|---------|--|-----------|
| SCALE     | 1"=50'  |  | REVISIONS |
| DATE      | 01-2026 |  |           |
| DWG. BY   | BAC     |  |           |
| DESIGN BY | JDH     |  |           |
| APPROVED  | JDH     |  |           |

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION 10  
 716 W. MAIN STREET  
 ALBEMARLE, NC 28001

51683

TYP 2A-2

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
UNION COUNTY



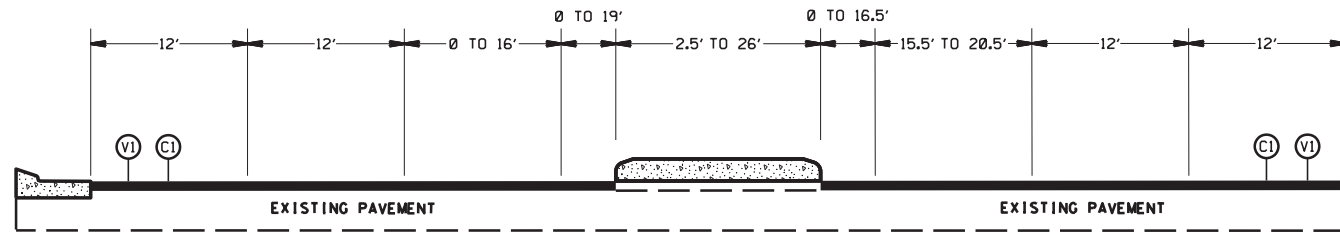
DIVISION 10 DESIGN UNIT

ROADWAY DESIGN  
ENGINEER

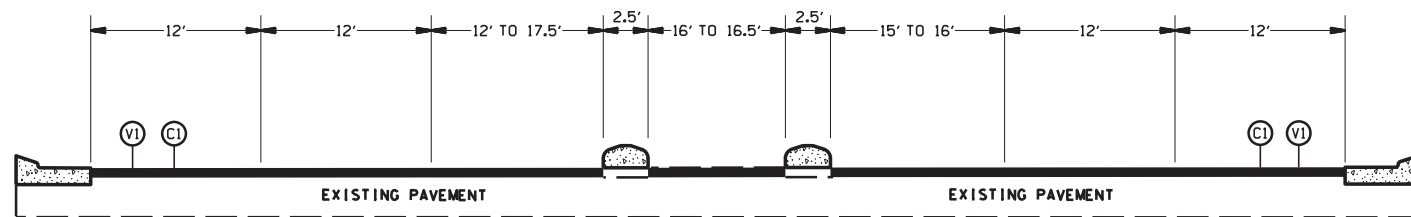
03/17/2026



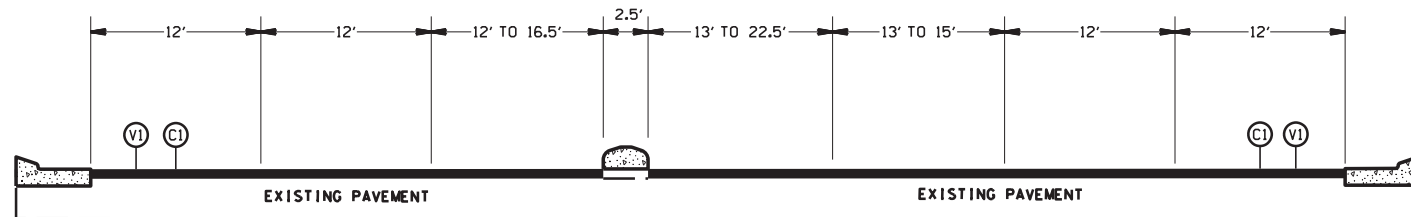
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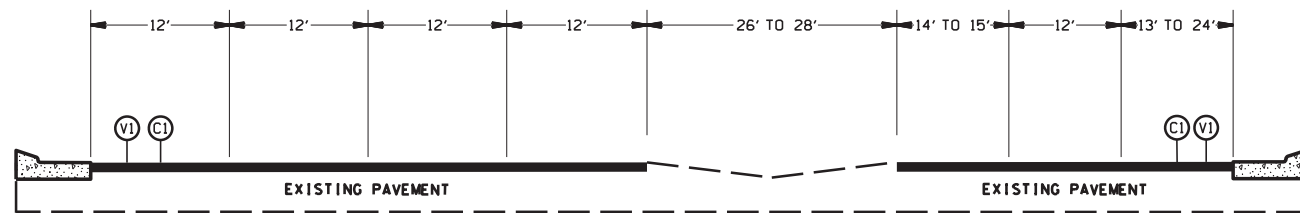
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STA. 10+26.54 TO 10+74.27 -Y-  
STA. 12+15 TO 18+25 -Y-



**TYPICAL SECTION NO.7**  
STA. 22+78.55 TO 23+35.25 -L-  
STA. 24+05.64 TO 24+74.44 -L-



**TYPICAL SECTION NO.6**  
STA. 21+84 TO 22+78.55 -L-



**TYPICAL SECTION NO.5**  
STA. 18+43 TO 21+84 -L-

PAVEMENT SCHEDULE

|      |   |
|------|---|
| (C1) | PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
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| (T)  | EARTH MATERIAL  |
| (V1) | MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH   |

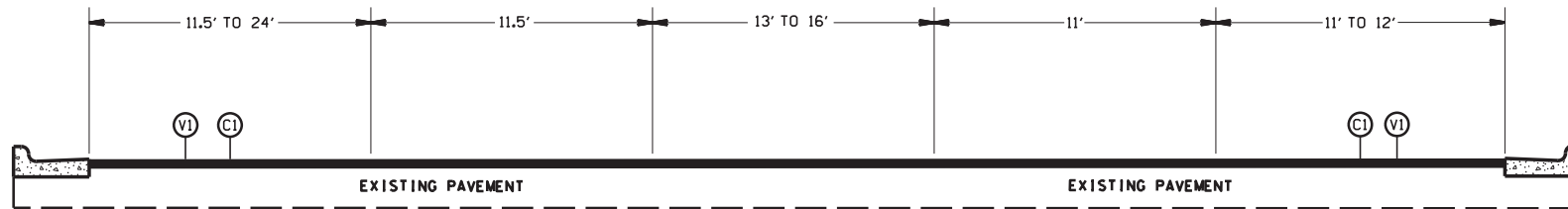
**TIP PROJECT: 51683**  
**County: Union**



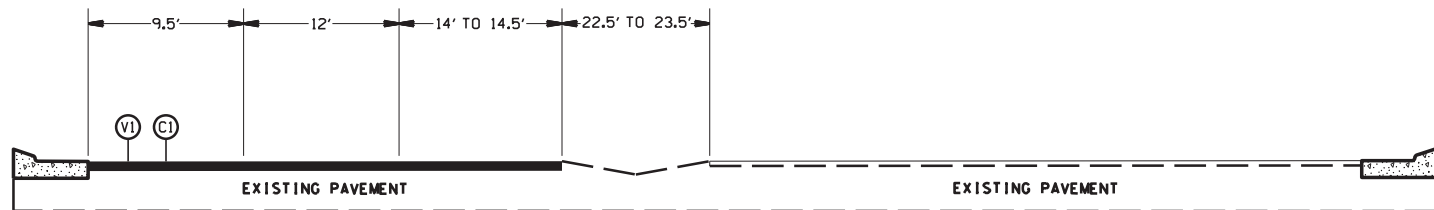
PREPARED BY  
DDC UNIT  
DIVISION 10  
716 W. MAIN STREET  
ALBEMARLE, NC 28001

ISLAND AND LANE CONFIGURATION ON 601 &  
LANE CONFIGURATION ON US 74 & 4TH LEG  
US 74 & US 601 S

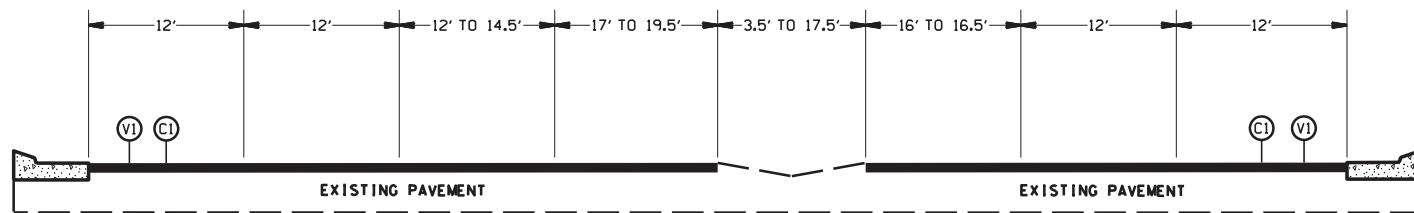
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| DATE      | 01-2026 |  |           |
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| DESIGN BY | JDH     |  |           |
| APPROVED  | JDH     |  |           |



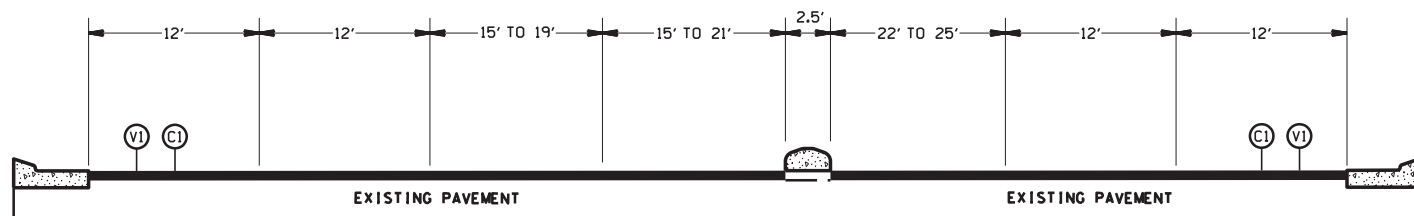
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TYPICAL SECTION NO.11  
STA. 28+54.70 TO 28+63.54 -L-



TYPICAL SECTION NO.10  
STA. 25+66.18 TO 28+54.70 -L-



TYPICAL SECTION NO.9  
STA. 24+74.44 TO 25+66.18 -L-

PAVEMENT SCHEDULE

|      |   |
|------|---|
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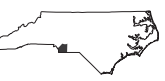
ISLAND AND LANE CONFIGURATION ON 60I &  
LANE CONFIGURATION ON US 74 & 4TH LEG  
US 74 & US 60I S

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| SCALE     | 1"=50'  |  | REVISIONS |
| DATE      | 01-2026 |  |           |
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| DESIGN BY | JDH     |  |           |
| APPROVED  | JDH     |  |           |

51683

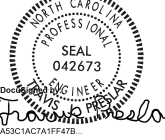
TYP 2A-3

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
UNION COUNTY



DIVISION 10 DESIGN UNIT

ROADWAY DESIGN  
ENGINEER  
03/17/2026



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UNLESS ALL SIGNATURES COMPLETE

**TIP PROJECT: 51683**  
**County: Union**



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DIVISION 10  
716 W. MAIN STREET  
ALBEMARLE, NC 28001

51683

TYP 2A-4

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
UNION COUNTY



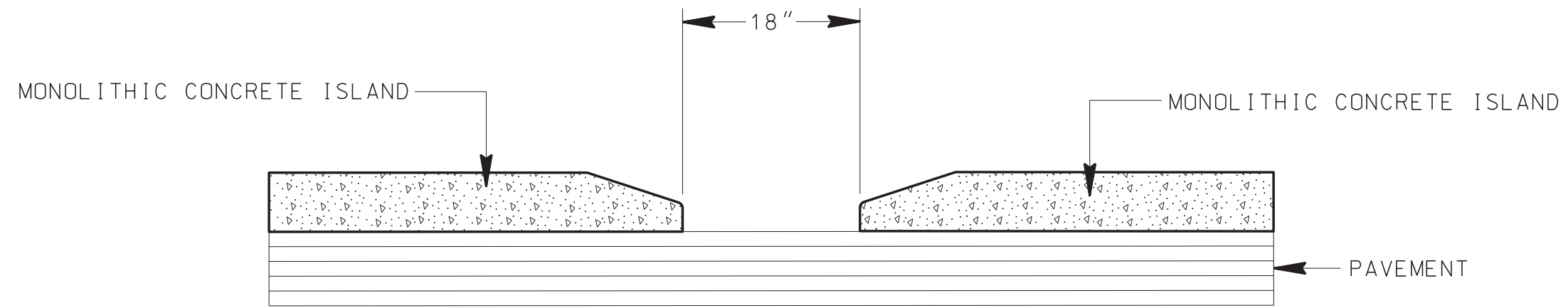
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ROADWAY DESIGN  
ENGINEER

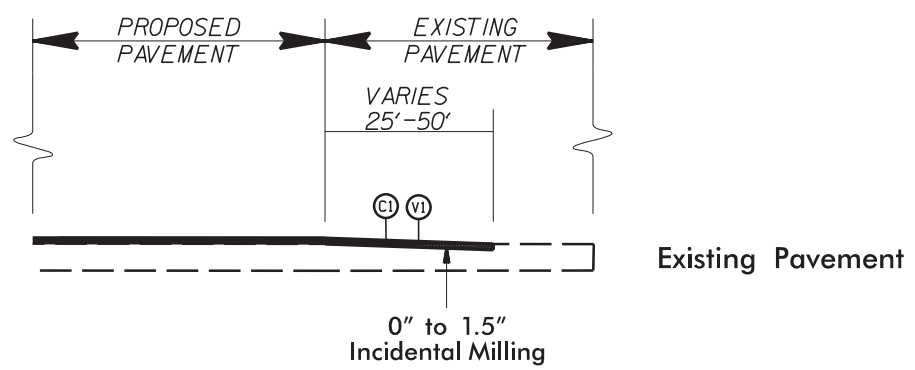
03/17/2026



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UNLESS ALL SIGNATURES COMPLETED



DETAIL 1



INCIDENTAL MILLING DETAIL  
EXISTING ROAD TIE-IN  
PROJECT TIE-INS

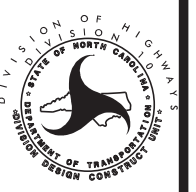
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LANE CONFIGURATION ON US 74 & 4TH LEG  
US 74 & US 601 S

|           |         |
|-----------|---------|
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| DATE      | 01-2026 |
| DWG. BY   | BAC     |
| DESIGN BY | JDH     |
| APPROVED  | JDH     |



| REVISIONS |  |
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|           |  |
|           |  |

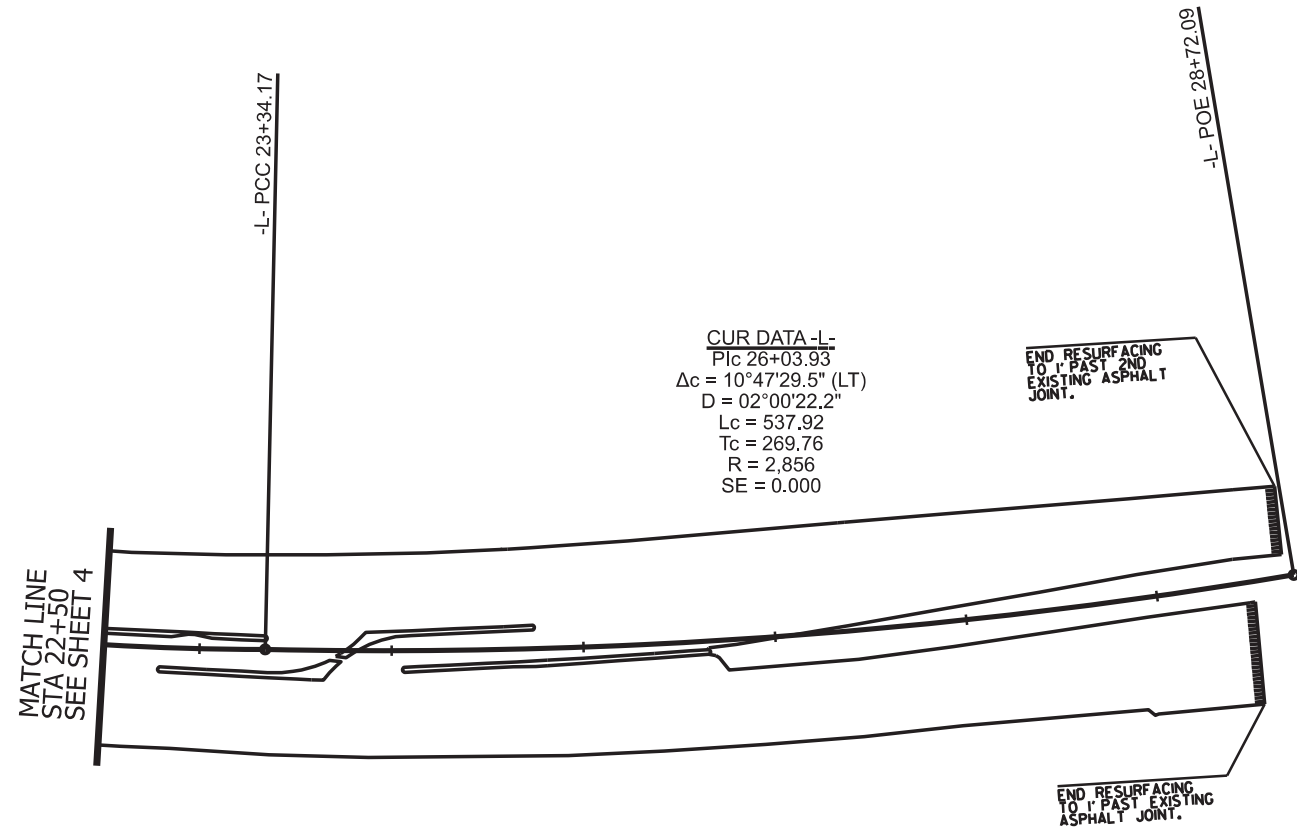
TIP PROJECT: 51683  
County: Union



PREPARED BY  
DDC UNIT  
DIVISION 10  
716 W. MAIN STREET  
ALBEMARLE, NC 28001







51683

PSH 005

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
UNION COUNTY

DIVISION 10 DESIGN UNIT

ROADWAY DESIGN  
ENGINEER

03/17/2026

PROFESSIONAL SEAL  
042673

*John P. Buel*

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

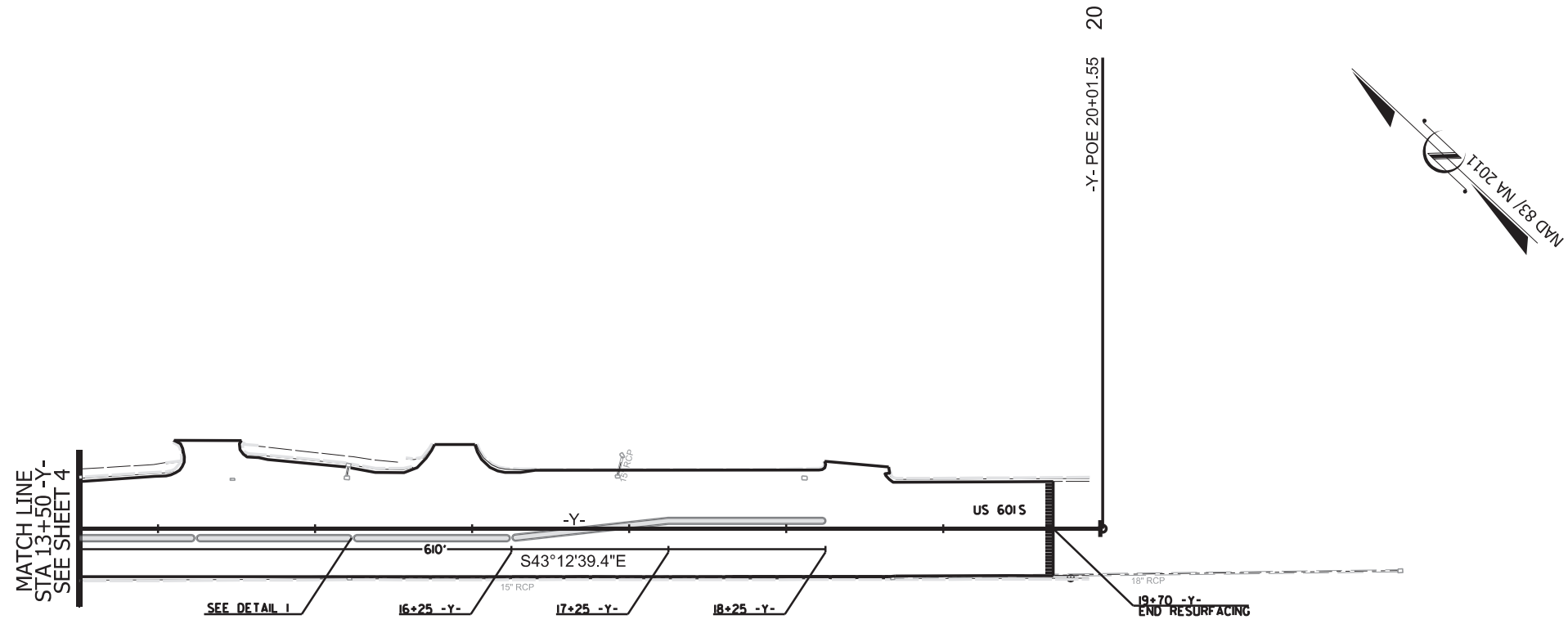
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**County: Union**



ISLAND AND LANE CONFIGURATION ON 60I &  
 LANE CONFIGURATION ON US 74 & 4TH LEG  
 US 74 & US 60I S

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|-----------|---------|--|-----------|--|
| SCALE     | 1"=50'  |  | REVISIONS |  |
| DATE      | 01-2026 |  |           |  |
| DWG. BY   | BAC     |  |           |  |
| DESIGN BY | JDH     |  |           |  |
| APPROVED  | JDH     |  |           |  |

PREPARED BY  
 DDC UNIT  
 DIVISION 10  
 716 W. MAIN STREET  
 ALBEMARLE, NC 28001

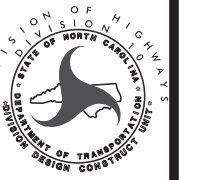


51683  
PSH 006  
NORTH CAROLINA  
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UNION COUNTY

DIVISION 10 DESIGN UNIT  
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ENGINEER  
03/17/2026

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**TIP PROJECT: 51683**  
**County: Union**



ISLAND AND LANE CONFIGURATION ON 60I &  
LANE CONFIGURATION ON US 74 & 4TH LEG  
US 74 & US 60I S

|           |         |  |           |  |
|-----------|---------|--|-----------|--|
| SCALE     | 1"=50'  |  | REVISIONS |  |
| DATE      | 01-2026 |  |           |  |
| DWG. BY   | BAC     |  |           |  |
| DESIGN BY | JDH     |  |           |  |
| APPROVED  | JDH     |  |           |  |

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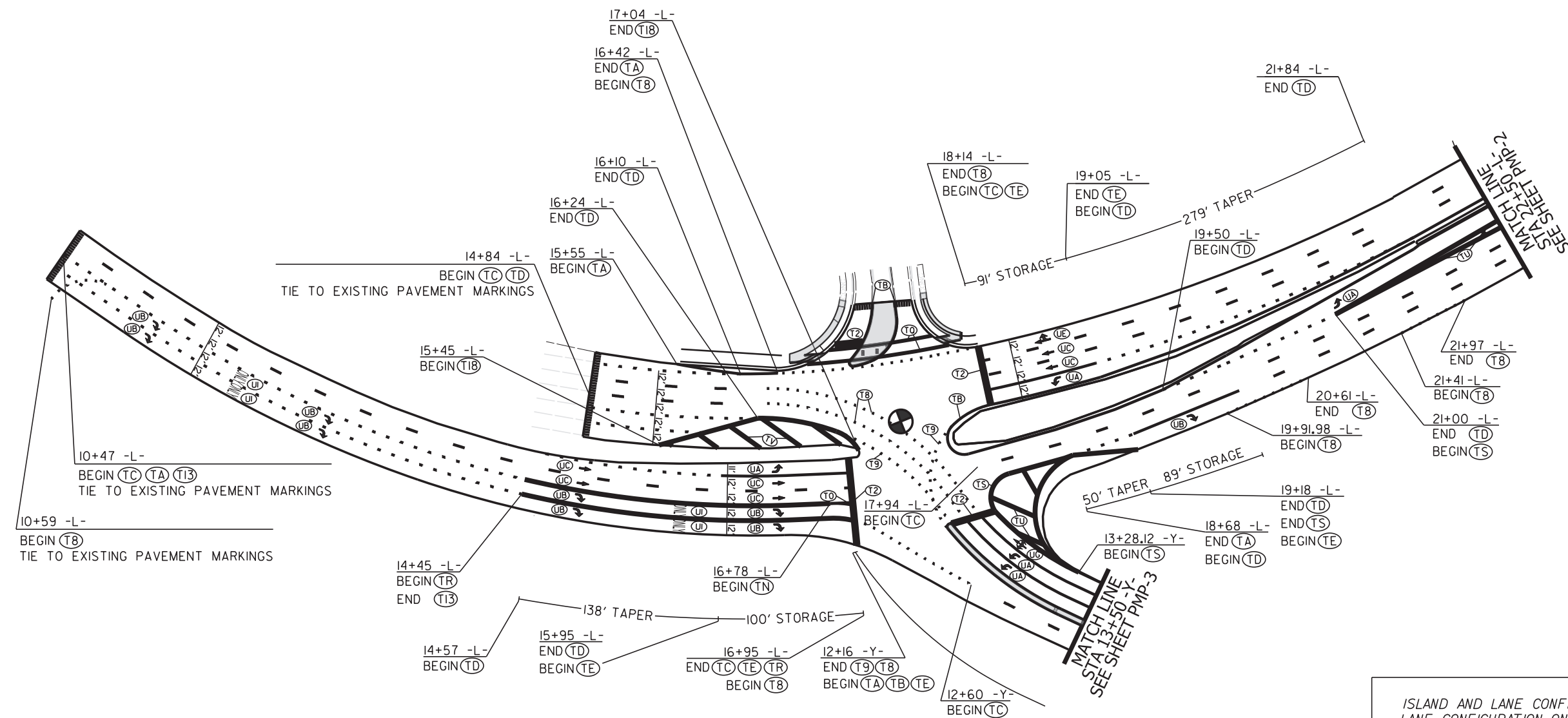
# PAVEMENT MARKING SCHEDULE

## THERMOPLASTIC MARKING LINES

- |   |  |
|---|--|
| TA - WHITE EDGELINE (4", 90 MIL)              | TQ - WHITE CROSSWALK LINE (8", 90 MIL)         |
| TB - YELLOW EDGELINE (4", 90 MIL)             | TR - WHITE SOLID LANE LINE (8", 90 MIL)        |
| TC - 10FT. WHITE SKIP (4", 90 MIL)            | TS - WHITE GORELINE (12", 90 MIL)              |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4", 90 MIL) | TU - WHITE DIAGONAL (12", 90 MIL)              |
| TE - WHITE SOLID LANE LINE (4", 90 MIL)       | TV - YELLOW DIAGONAL (12", 90 MIL)             |
| TF - 10FT. YELLOW SKIP (4", 90 MIL)           | T2 - WHITE STOPBAR (24", 90 MIL)               |
| TH - YELLOW SINGLE CENTER (4", 90 MIL)        | T8 - 2FT.-6FT./SP WHITE MINISKIP (4", 90 MIL)  |
| TI - YELLOW DOUBLE CENTER (4", 90 MIL)        | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4", 90 MIL) |
| TN - WHITE GORELINE (8", 90 MIL)              | T13 - 3FT.-9FT./SP WHITE MINISKIP (8", 90 MIL) |
| TO - WHITE DIAGONAL (8", 90 MIL)              | T18 - YELLOW GORELINE (12", 90 MIL)            |
| TP - YELLOW DIAGONAL (8", 90 MIL)             |  |

## THERMOPLASTIC MARKING SYMBOLS

- UA - LEFT TURN ARROW (90 MIL)
- UB - RIGHT TURN ARROW (90 MIL)
- UC - STRAIGHT ARROW (90 MIL)
- UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)
- UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
- UI - ALPHANUMERIC CHAR. (90 MIL)



ISLAND AND LANE CONFIGURATION ON 60I & LANE CONFIGURATION ON US 74 & 4TH LEG US 74 & US 60I S

|           |         |  |           |
|-----------|---------|--|-----------|
| SCALE     | 1"=50'  |  | REVISIONS |
| DATE      | 01-2026 |  |           |
| DWG. BY   | BAC     |  |           |
| DESIGN BY | JDH     |  |           |
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ROADWAY DESIGN  
ENGINEER  
03/17/2026  
SEAL 042673  
PROFESSIONAL ENGINEER  
NORTH CAROLINA  
TRAFFIC ENGINEER  
ASSOCIATE 111747

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PAVEMENT MARKING SCHEDULE

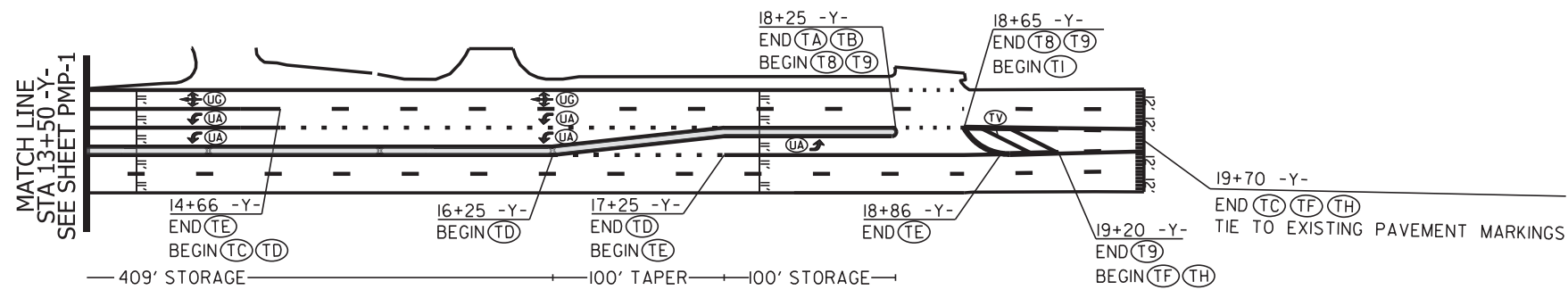
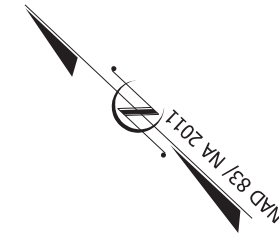
THERMOPLASTIC MARKING LINES

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- TB - YELLOW EDGELINE (4", 90 MIL)
- TC - 10FT. WHITE SKIP (4", 90 MIL)
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- TP - YELLOW DIAGONAL (8", 90 MIL)

- TQ - WHITE CROSSWALK LINE (8", 90 MIL)
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- TU - WHITE DIAGONAL (12", 90 MIL)
- TV - YELLOW DIAGONAL (12", 90 MIL)
- T2 - WHITE STOPBAR (24", 90 MIL)
- T8 - 2FT.-6FT./SP WHITE MINISKIP (4", 90 MIL)
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THERMOPLASTIC MARKING SYMBOLS

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- UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
- UI - ALPHANUMERIC CHAR. (90 MIL)



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**County: Union**



ISLAND AND LANE CONFIGURATION ON 60I &  
LANE CONFIGURATION ON US 74 & 4TH LEG  
US 74 & US 60I S

| SCALE     | 1"=50'  | REVISIONS |
|-----------|---------|-----------|
| DATE      | 01-2026 |           |
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| DESIGN BY | JDH     |           |
| APPROVED  | JDH     |           |

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09/08/99

See Sheet 1A For Index of Sheets

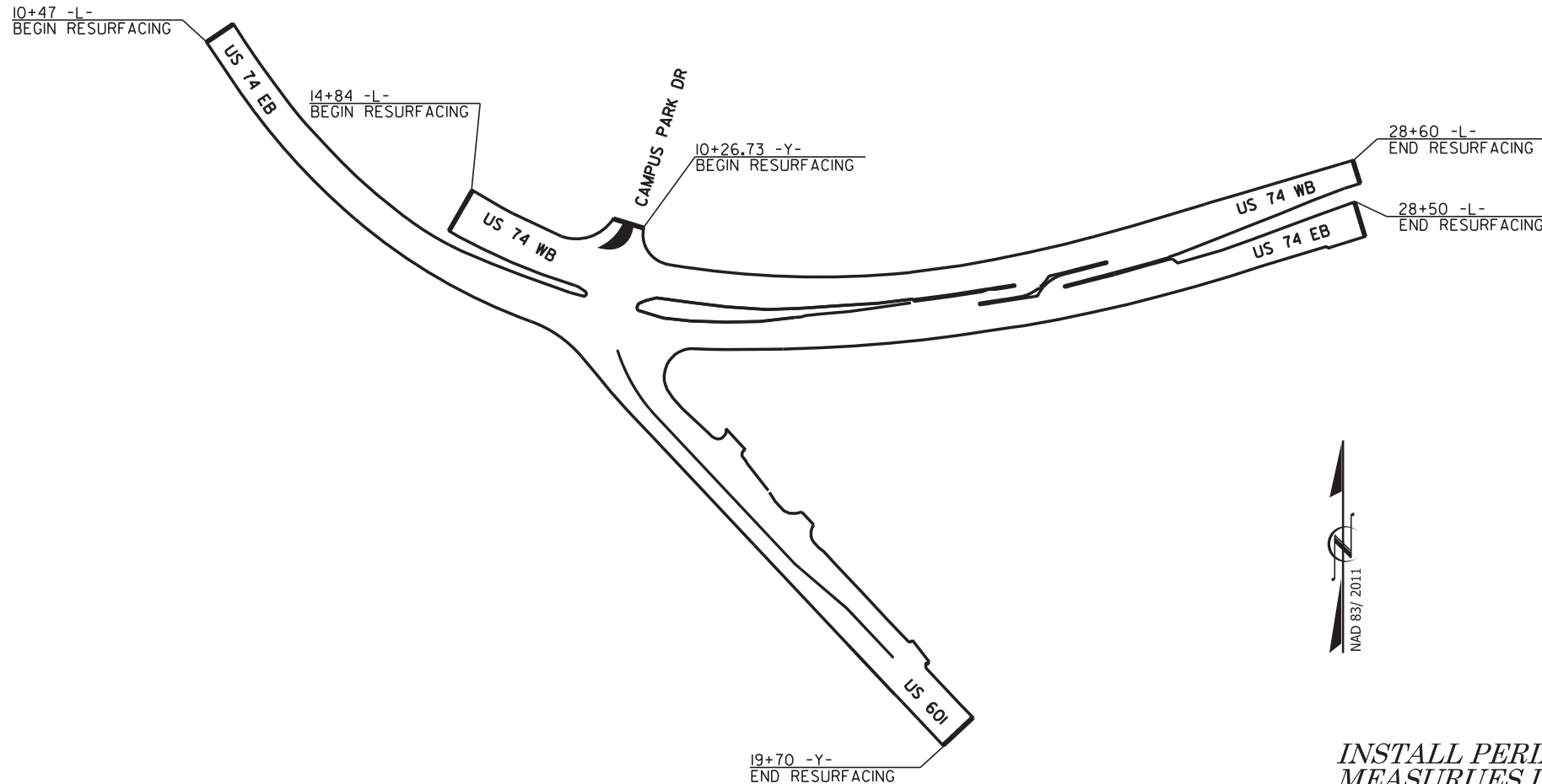
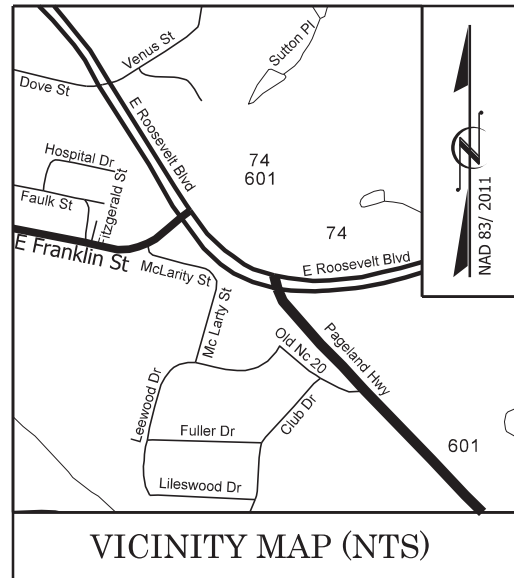
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

### UNION COUNTY

LOCATION: *US 74 & US 601 SOUTH*

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | 51683                       | EC-1        |              |
| STATE PROJ. NO. | F. A. PROJ. NO.             | DESCRIPTION |              |
| 51683           |                             | PE          |              |
| 51683           |                             | RW          |              |
| 51683           |                             | CON         |              |



#### EROSION AND SEDIMENT CONTROL MEASURES

| Std. #  | Description  | Symbol |
|---------|--|--------|
| 1630.03 | Temporary Silt Ditch   |        |
| 1630.05 | Temporary Diversion  |        |
| 1606.01 | Temporary Silt Fence   |        |
| 1606.01 | Special Sediment Control Fence   |        |
| 1622.01 | Temporary Berms and Slope Drains                                       |        |
| 1630.02 | Silt Basin Type B  |        |
| 1635.01 | Temporary Rock Silt Check Type-A                                       |        |
|         | Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM) |        |
| 1635.02 | Temporary Rock Silt Check Type-B                                       |        |
|         | Wattle / Coir Fiber Wattle   |        |
|         | Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)                   |        |
| 1634.01 | Temporary Rock Sediment Dam Type-A                                     |        |
| 1634.02 | Temporary Rock Sediment Dam Type-B                                     |        |
| 1635.01 | Rock Pipe Inlet Sediment Trap Type-A                                   |        |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B                                   |        |
| 1630.04 | Stilling Basin   |        |
| 1630.06 | Special Stilling Basin   |        |
|         | Rock Inlet Sediment Trap:  |        |
| 1632.01 | Type A   |        |
| 1632.02 | Type B   |        |
| 1632.03 | Type C   |        |
|         | Skimmer Basin  |        |
|         | Tiered Skimmer Basin   |        |
|         | Infiltration Basin   |        |

WBS: 51683

**INSTALL PERIMETER EROSION CONTROL MEASURES DURING INITIAL CLEARING PHASE.**

#### GRAPHIC SCALES



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared in the Office of:  
**DDC UNIT DIVISION 10**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

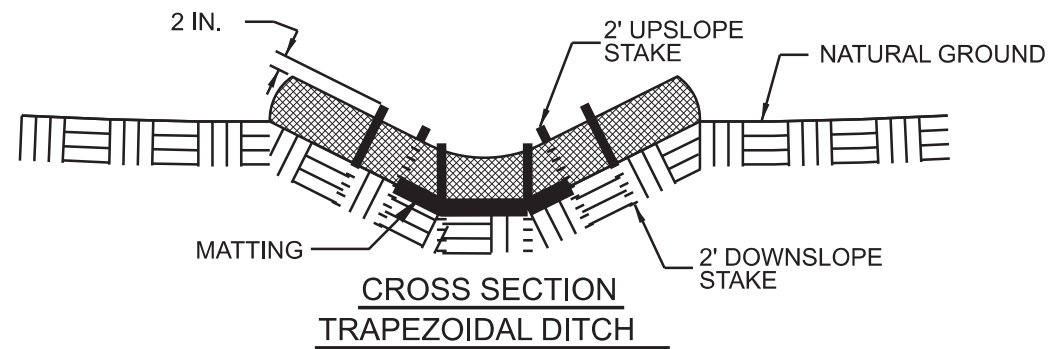
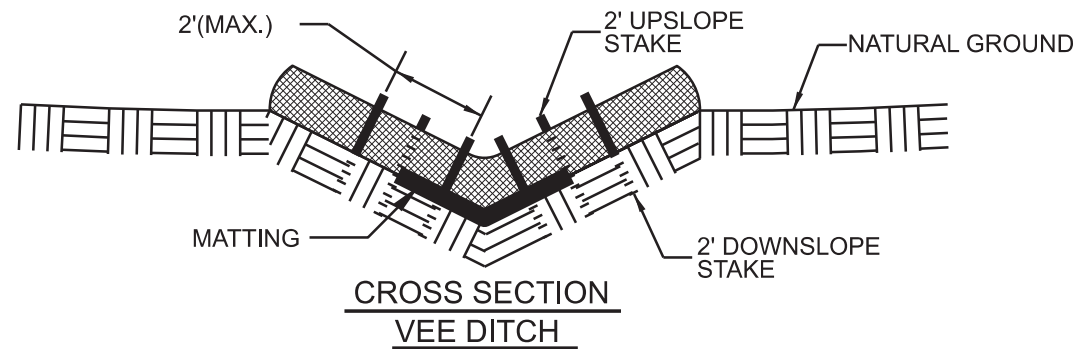
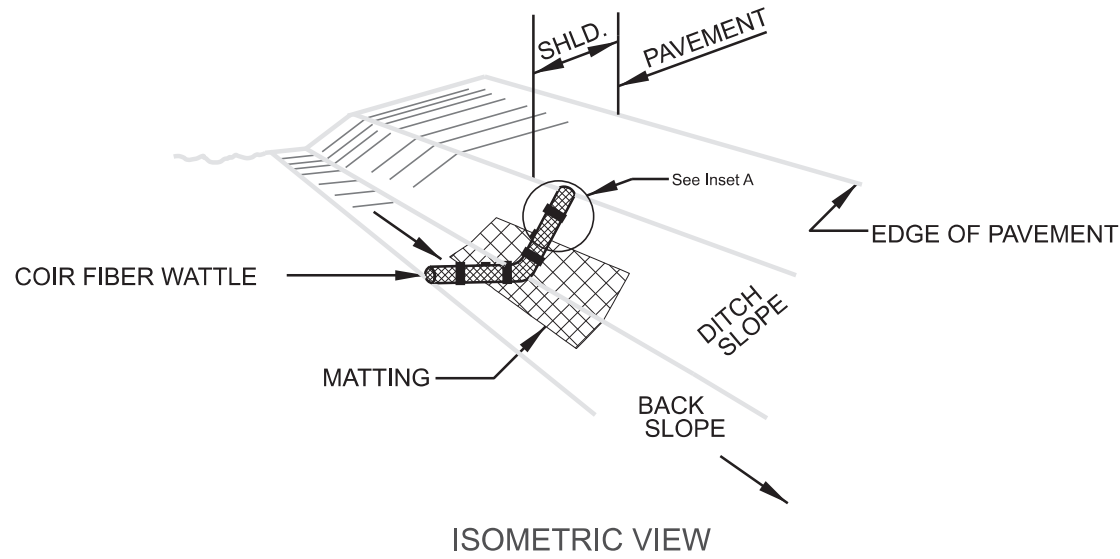
Designed by:  
**CHAD BURRIS** 4159  
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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

# COIR FIBER WATTLE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

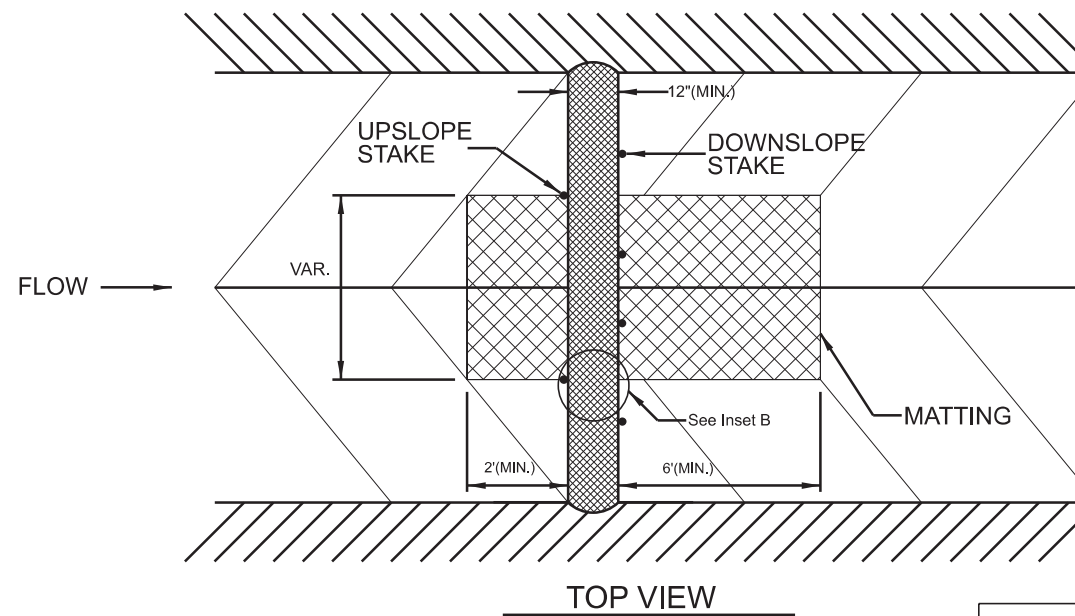
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



ISLAND AND LANE CONFIGURATION ON 601 & LANE CONFIGURATION ON US 74 & 4TH LEG US 74 & US 601 S

|           |         |  |           |
|-----------|---------|--|-----------|
| SCALE     | 1"=50'  |  | REVISIONS |
| DATE      | 01-2026 |  |           |
| DWG. BY   | BAC     |  |           |
| DESIGN BY | JDH     |  |           |
| APPROVED  | JDH     |  |           |

51683  
EC 002  
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
UNION COUNTY

DIVISION 10 DESIGN UNIT  
ROADWAY DESIGN  
ENGINEER

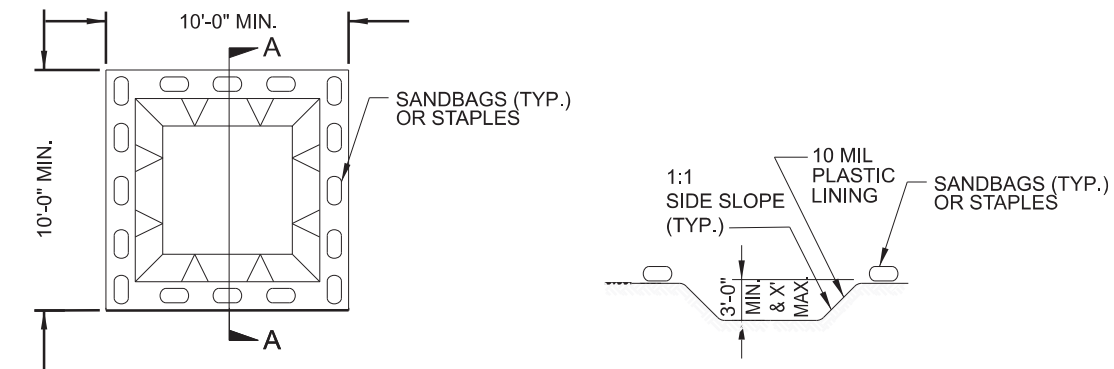
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### ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

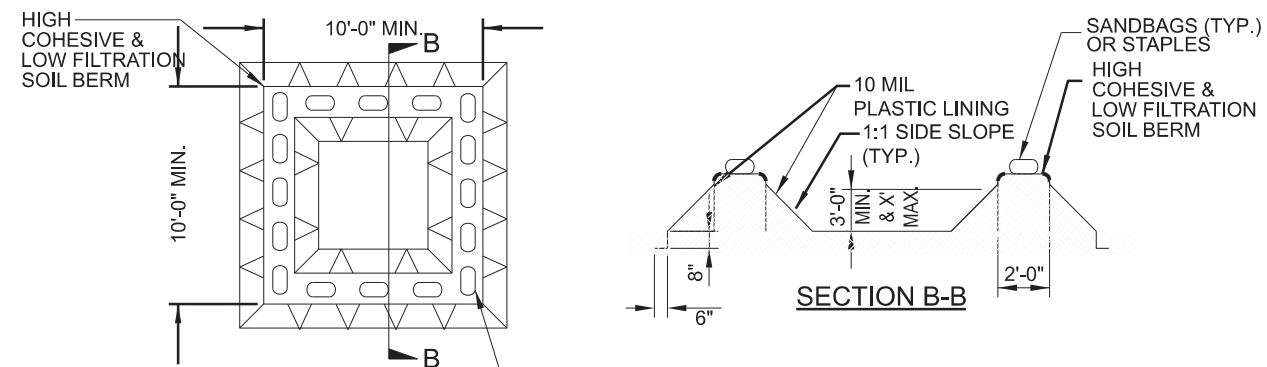


PLAN

#### BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE

- SECTION A-A**
- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



PLAN

#### ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

- SECTION B-B**
- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

|   |         |
|---|---------|
| ISLAND AND LANE CONFIGURATION ON 60I & LANE CONFIGURATION ON US 74 & 4TH LEG US 74 & US 60I S |         |
| SCALE   | 1"=50'  |
| DATE  | 01-2026 |
| DWG. BY   | BAC     |
| DESIGN BY   | JDH     |
| APPROVED  | JDH     |
| REVISIONS   |         |
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|   |         |

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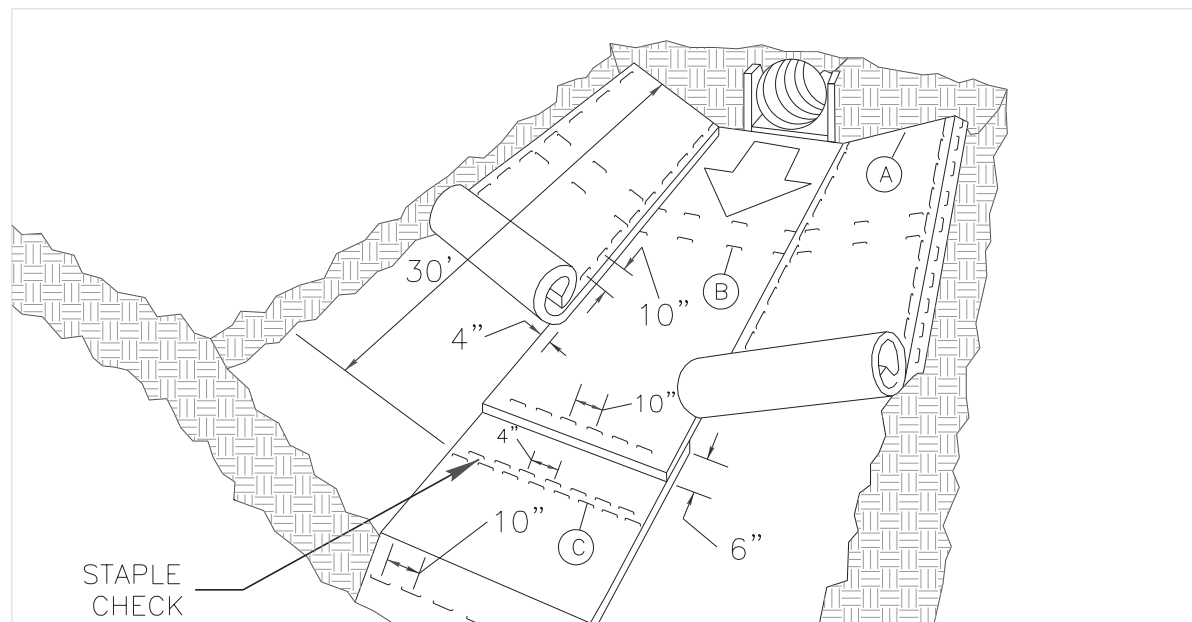
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# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

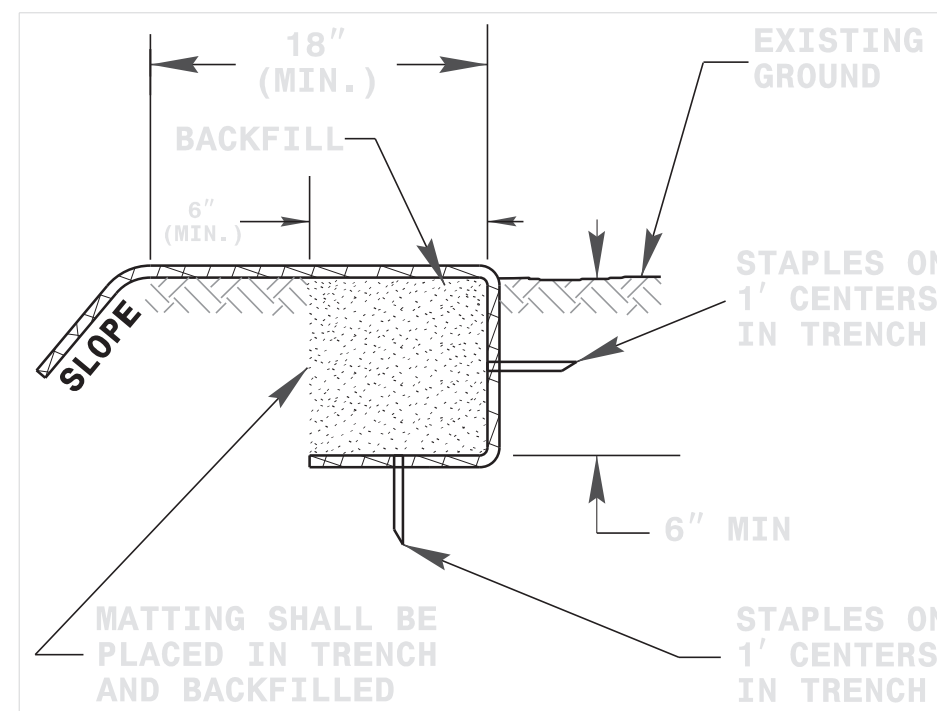
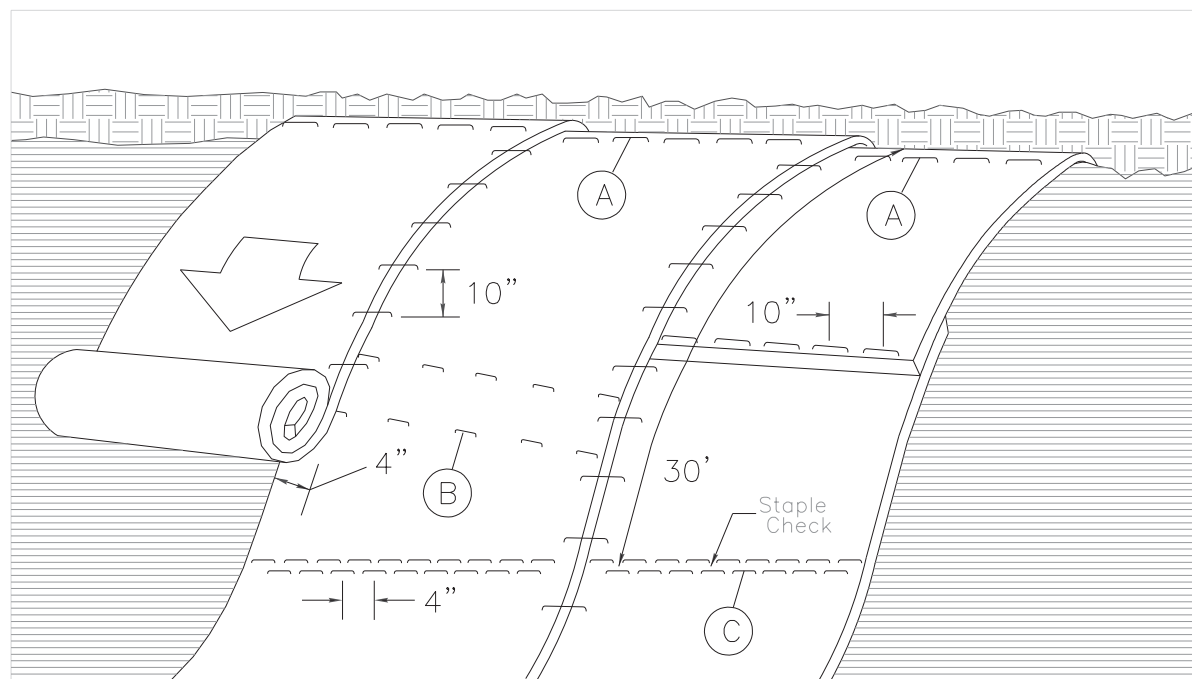


DIAGRAM (A)



**MATTING ON SLOPES**

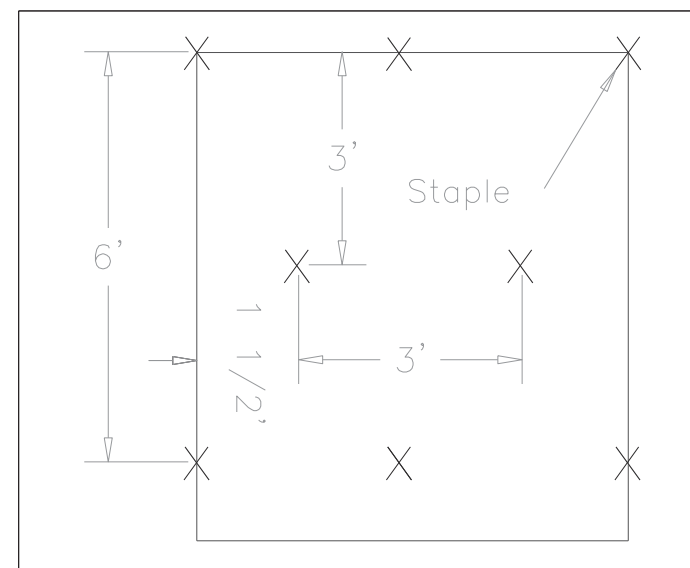


DIAGRAM (B)

Staple Check Pattern

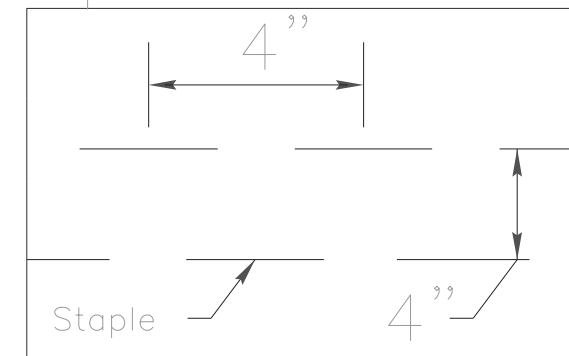


DIAGRAM (C)

**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

ISLAND AND LANE CONFIGURATION ON 60I &  
LANE CONFIGURATION ON US 74 & 4TH LEG  
US 74 & US 60I S

|           |         |
|-----------|---------|
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| REVISIONS |  |
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ENGINEER  
FRANK J. PRESHAN

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**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

***SOIL STABILIZATION TIMEFRAMES***

| <i>SITE DESCRIPTION</i>                      | <i>STABILIZATION TIME</i> | <i>TIMEFRAME EXCEPTIONS</i>  |
|--|---------------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES  | 7 DAYS                    | NONE   |
| HIGH QUALITY WATER (HOW) ZONES               | 7 DAYS                    | NONE   |
| SLOPES STEEPER THAN 3:1                      | 7 DAYS                    | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED. |
| SLOPES 3:1 OR FLATTER                        | 14 DAYS                   | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.  |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS                   | NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.   |

ISLAND AND LANE CONFIGURATION ON 601 &  
LANE CONFIGURATION ON US 74 & 4TH LEG  
US 74 & US 601 S

|           |         |           |
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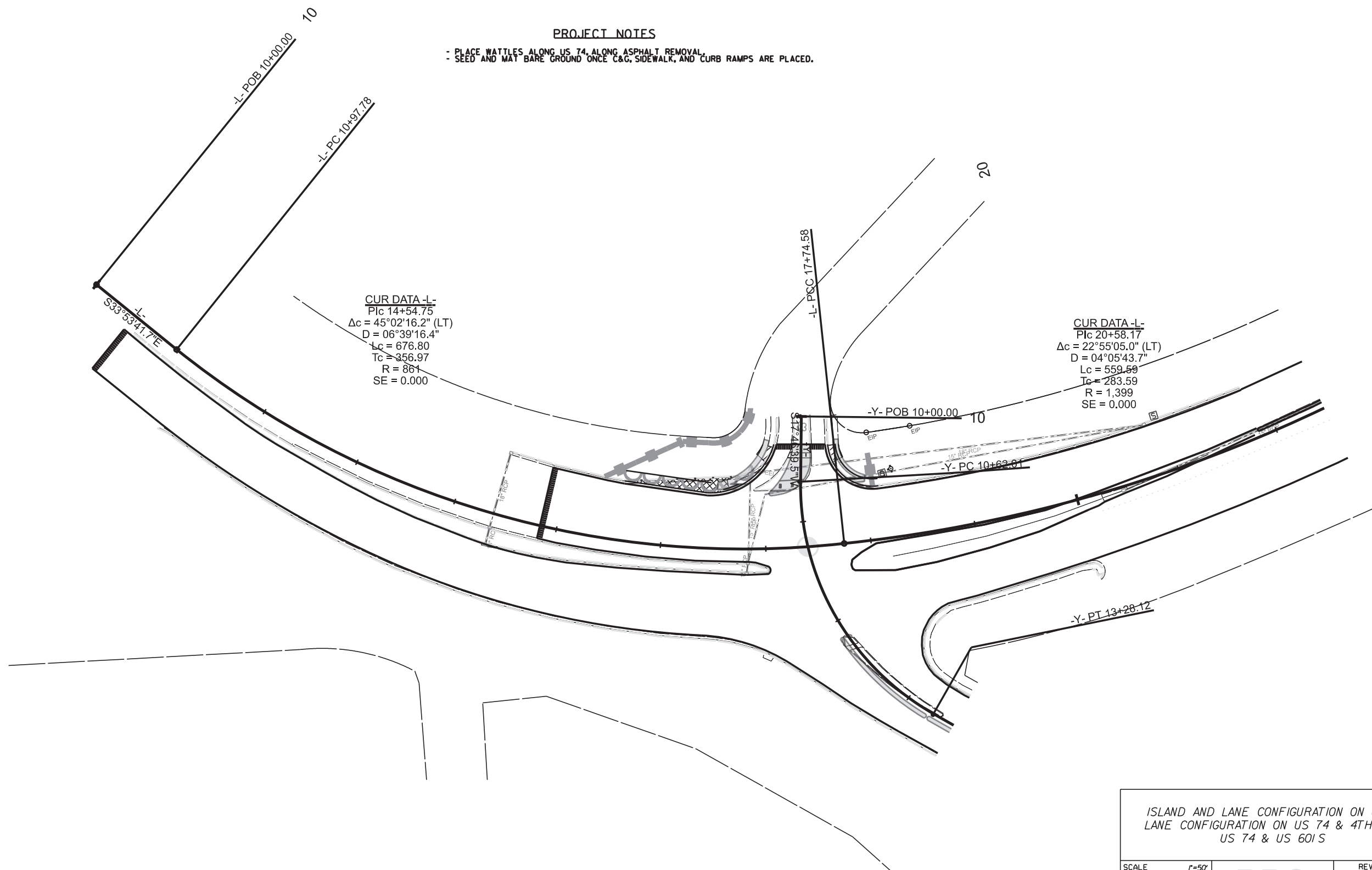


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**PROJECT NOTES**

- PLACE WATTLES ALONG US 74, ALONG ASPHALT REMOVAL
- SEED AND MAT BARE GROUND ONCE C&G, SIDEWALK, AND CURB RAMPS ARE PLACED.



**TIP PROJECT: 51683**  
**County: Union**

ISLAND AND LANE CONFIGURATION ON 601 &  
LANE CONFIGURATION ON US 74 & 4TH LEG  
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|           |         |  |           |  |
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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN  
UNION COUNTY

LOCATION: US 74 & US 601 SOUTH

ROADWAY STANDARD DRAWING

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

| STD. NO. | TITLE  |
|----------|--|
| 904.10   | ORIENTATION OF GROUND MOUNTED SIGNS                          |
| 904.20   | SECONDARY SIGN MOUNTING                                      |
| 904.30   | SUPPLEMENTAL SIGN MOUNTING                                   |
| 904.50   | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |
| 910.50   | SIGNING FOR SPEED REDUCTION ZONE                             |

GENERAL NOTES

- . SIGNS FURNISHED BY CONTRACTOR
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

| ITEM NO.   |           | ITEM DESCRIPTION                   | QUANTITY | UNIT |
|------------|-----------|------------------------------------|----------|------|
| DESC. NO.  | SECT. NO. |                                    |          |      |
| 4025000000 | 901       | CONTRACTOR FURNISHED, TYPE E SIGN  | 45       | S.F. |
| 4025000000 | 901       | CONTRACTOR FURNISHED, TYPE F SIGN  | 34       | S.F. |
| 4072000000 | 903       | SUPPORTS, 3 LB STEEL U-CHANNEL     | 176      | L.F. |
| 4102000000 | 904       | SIGN ERECTION, TYPE E              | 6        | EA.  |
| 4108000000 | 904       | SIGN ERECTION, TYPE F              | 2        | EA.  |
| 4155000000 | 907       | DISPOSAL OF SIGN SYSTEM, U-CHANNEL | 6        | EA.  |

INDEX

| SHEET NO. | DESCRIPTION         |
|-----------|---------------------|
| SIGN-1    | TITLE SHEET         |
| SIGN-2    | E AND F SHEETS      |
| SIGN-3-5  | SIGNING PLAN SHEETS |

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

Kelvin Jordan SIGNING & DELINEATION REGIONAL ENGINEER  
Ashley Matthews, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER

51683

SIGN 001

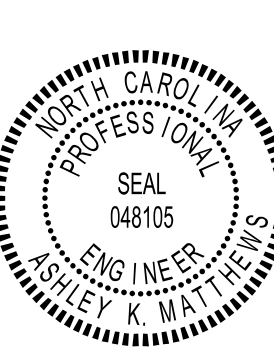
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DocuSigned by: Ashley Matthews

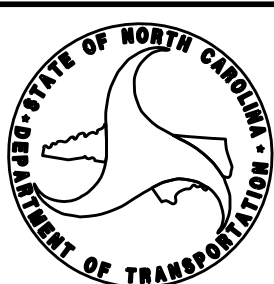
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3/18/2026 12:43 PM EDT

SEAL

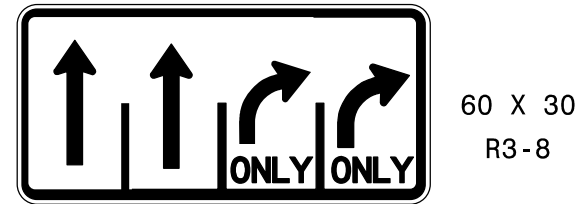


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



T.I.P.: 51683

401 QUANTITY REQ'D .1\_



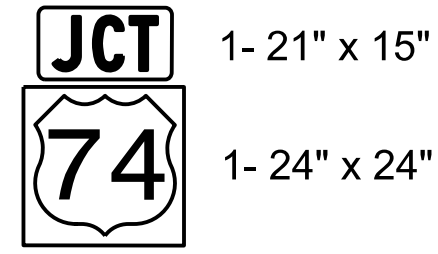
TWO "U" POSTS PER SIGN

406 QUANTITY REQ'D .1\_



TWO "U" POSTS PER SIGN

501



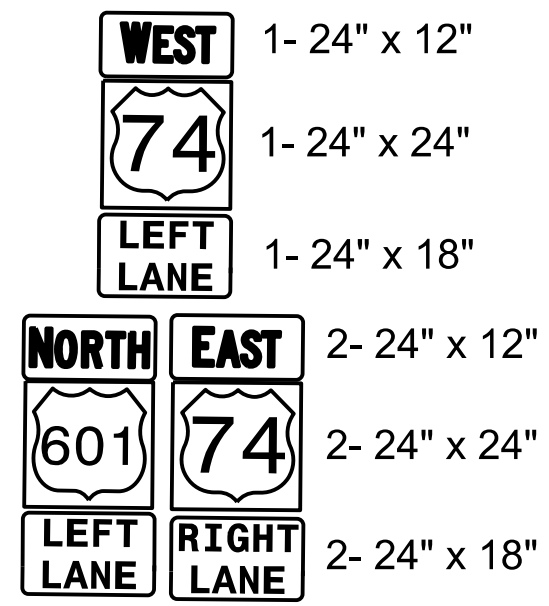
ONE "U" POST PER SIGN

402 QUANTITY REQ'D .1\_



ONE "U" POST PER SIGN

502



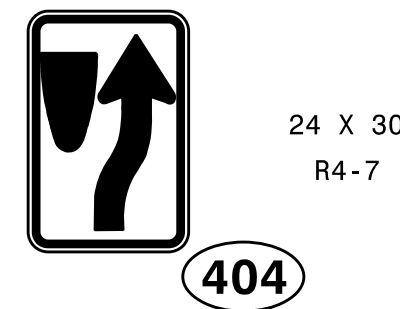
TWO "U" POSTS PER SIGN

403 QUANTITY REQ'D .1\_



ONE "U" POST PER SIGN

404 QUANTITY REQ'D .1\_

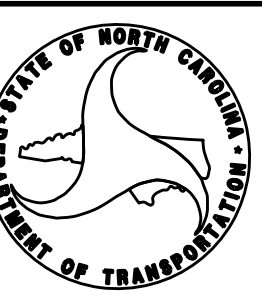


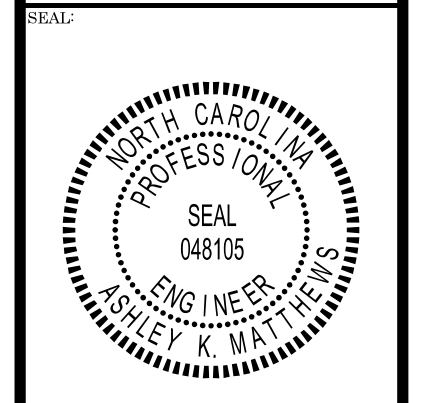
ONE "U" POST PER SIGN

405 QUANTITY REQ'D .1\_

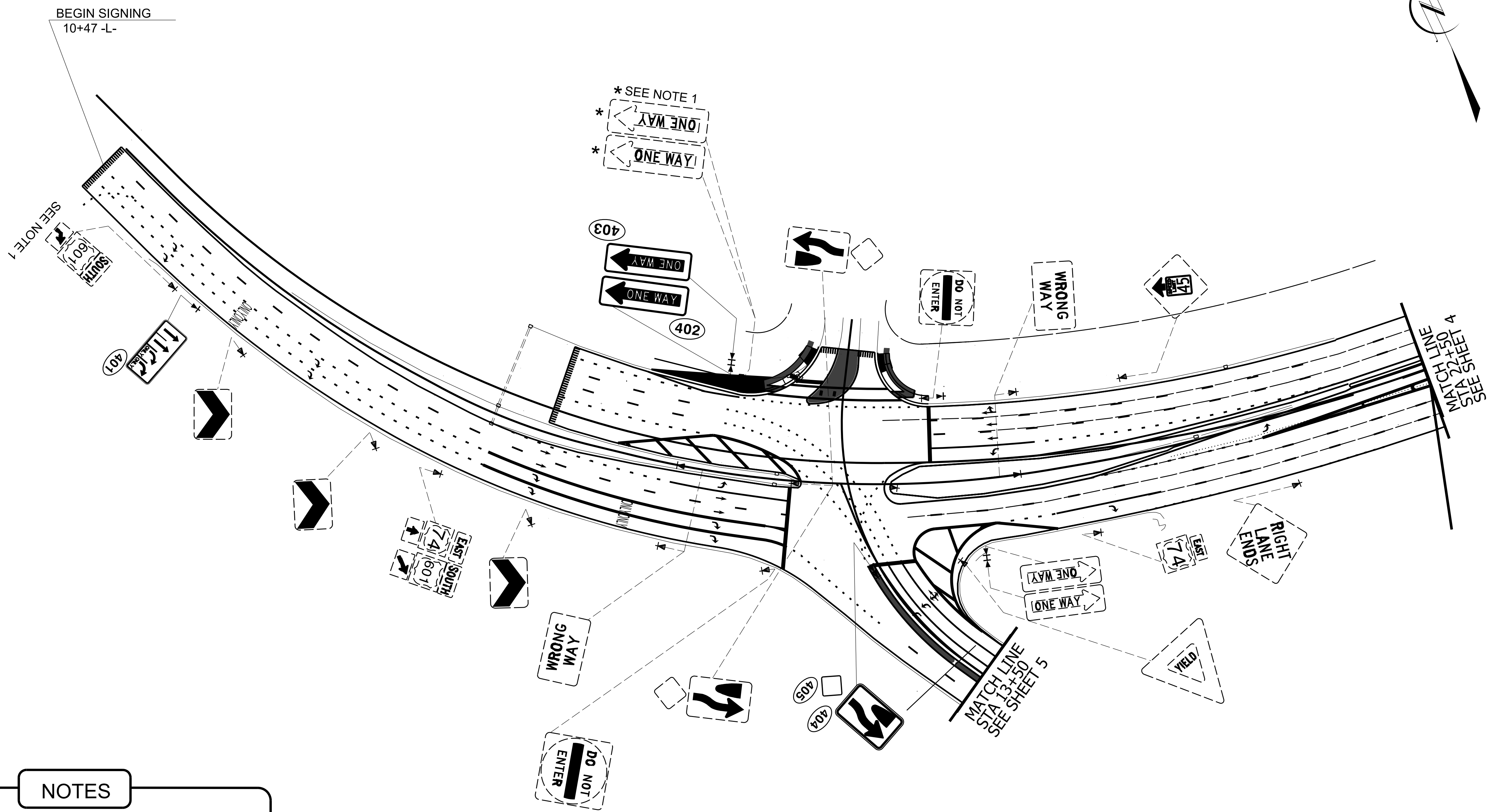
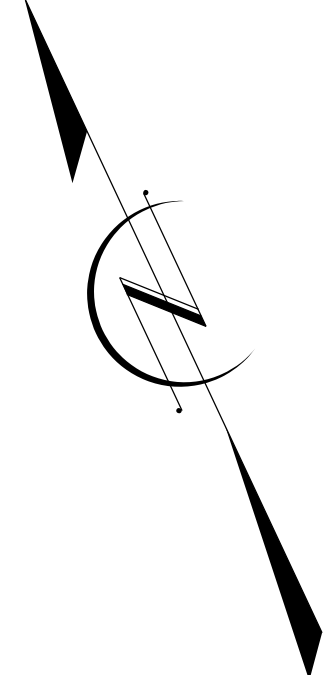
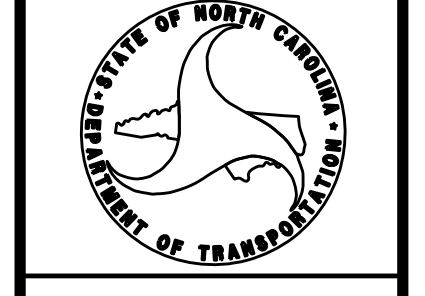


MOUNT BELOW SIGN 404 IN .1 INSTALLATIONS





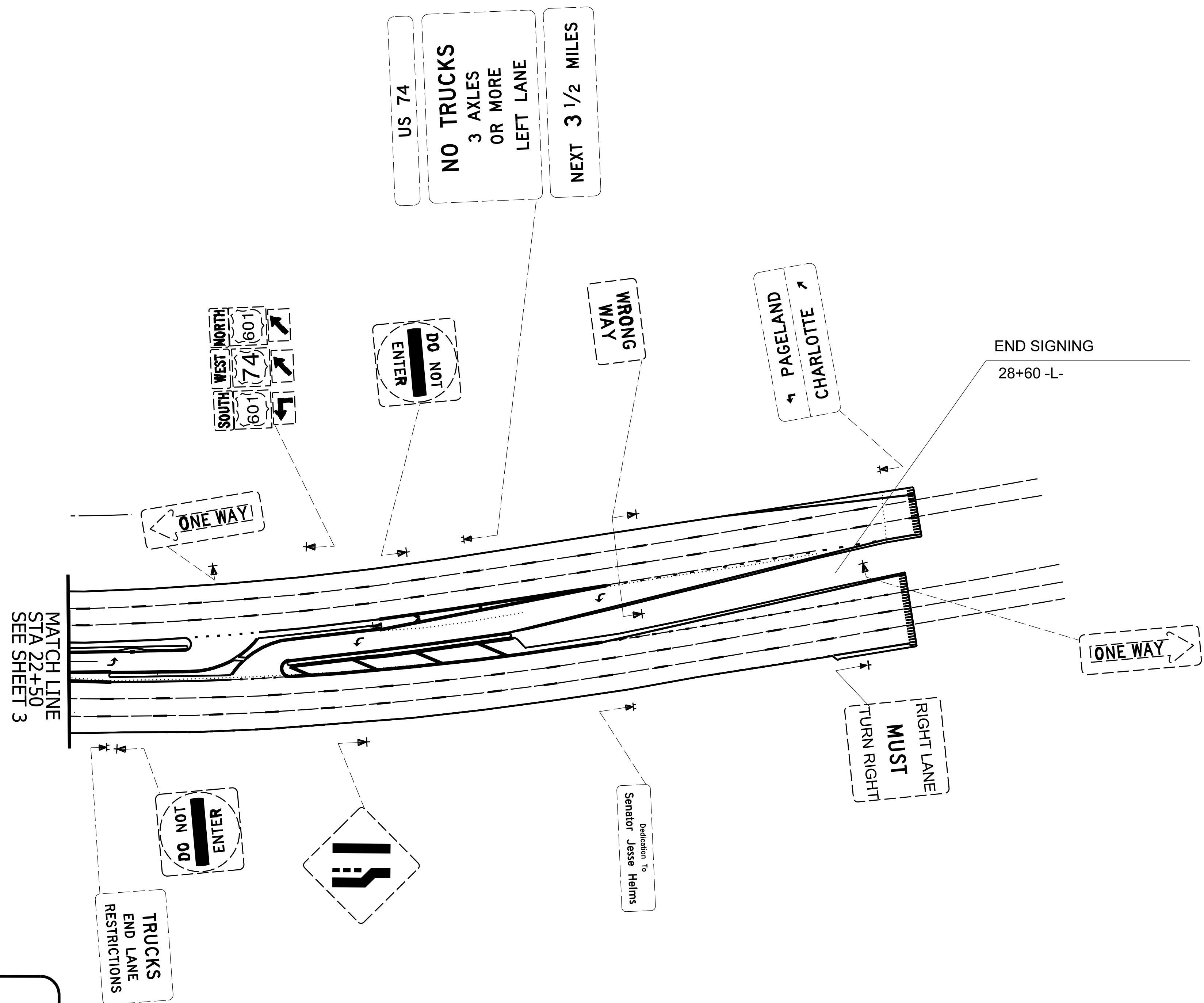
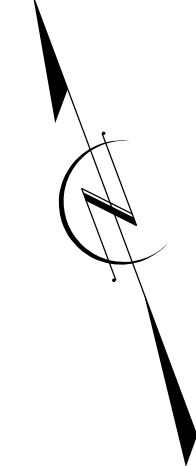
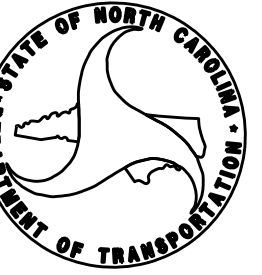
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



NOTES

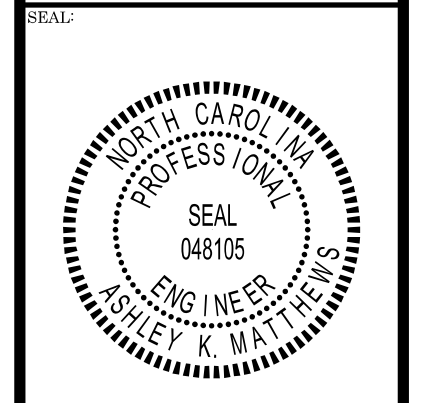
1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



NOTES

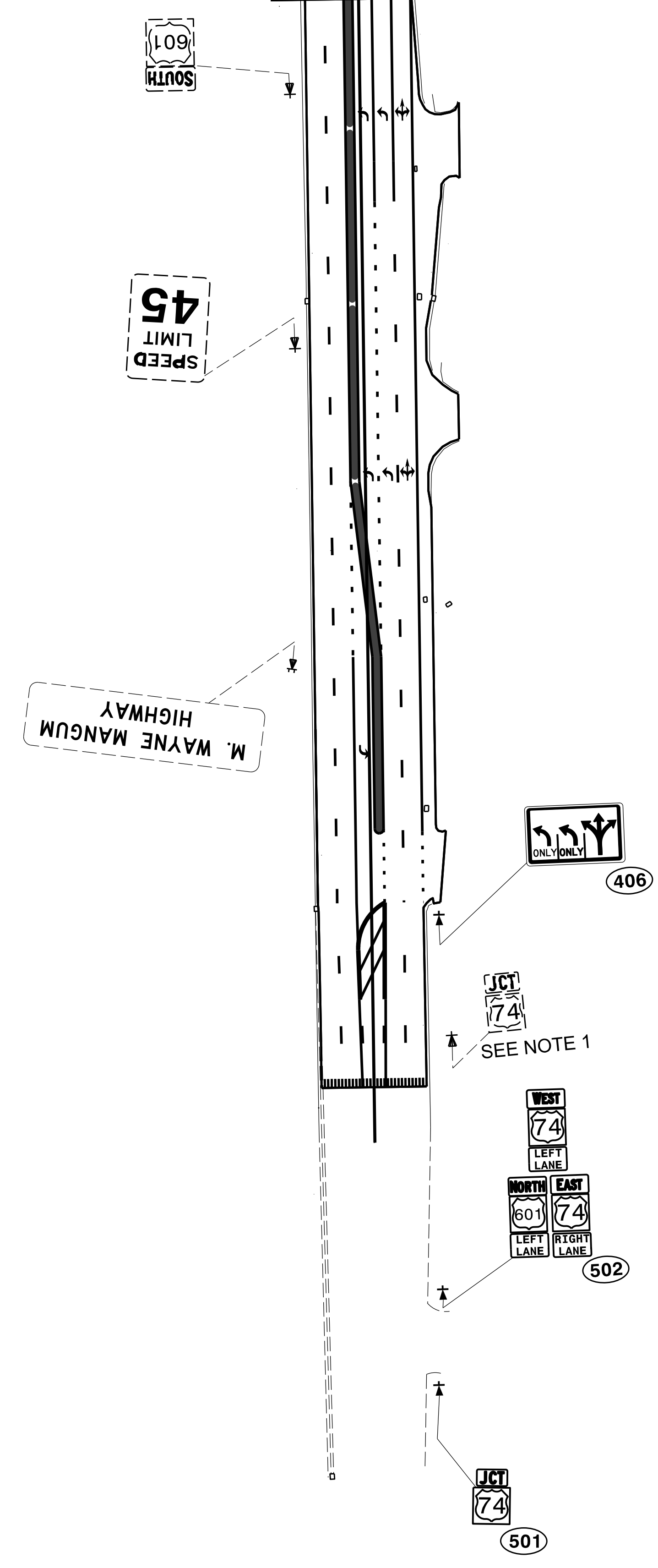
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



MATCH LINE  
STA 13+50  
SEE SHEET 3



NOTES

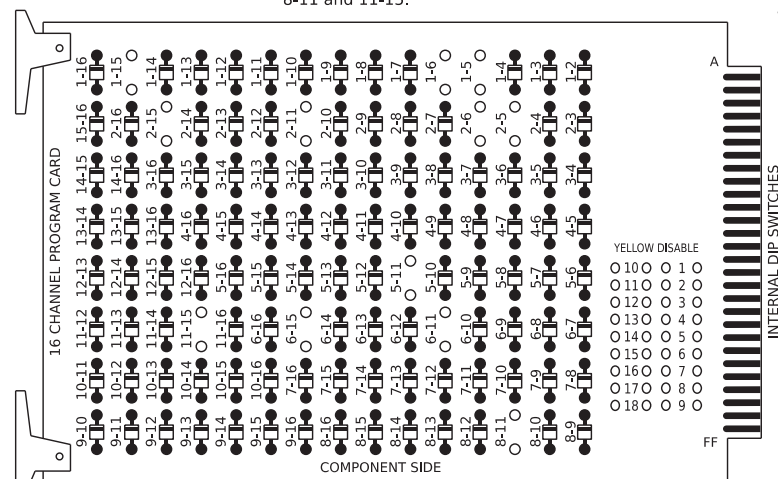
1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL  
RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



### 16 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

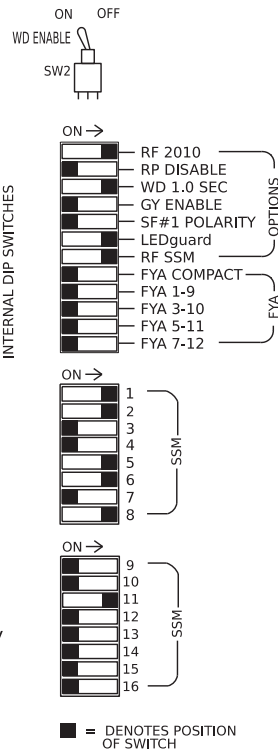
REMOVE DIODE JUMPERS 1-5, 1-6, 1-15, 2-5, 2-6, 2-11, 2-15, 5-11, 6-11, 6-15, 8-11 and 11-15.



REMOVE JUMPERS AS SHOWN

**NOTES:**

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Make sure jumpers SEL2-SEL5 are present on the monitor board.



### NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
- Ensure Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 3, 4, 7, 9, 10, 12, 13, 14, 15 and 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the D10-39\_Monroe System.

### EQUIPMENT INFORMATION

Controller.....2070LX  
 Cabinet.....332 w/ Aux  
 Software.....Q-Free MAXTIME  
 Cabinet Mount.....Base  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S1, S2, S5, S6, S6P, S8, S12  
 Phases Used.....1, 2, 5, 6, 6PED, 8  
 Overlap "1".....Not Used  
 Overlap "2".....Not Used  
 Overlap "3".....\*  
 Overlap "4".....Not Used

\*See overlap programming detail this sheet

### SIGNAL HEAD HOOK-UP CHART

| LOAD SWITCH NO.       | S1  | S2       | S2P   | S3 | S4 | S4P   | S5  | S6       | S6P      | S7 | S8    | S8P   | S9  | S10 | S11   | S12 | S13   | S14   |
|-----------------------|-----|----------|-------|----|----|-------|-----|----------|----------|----|-------|-------|-----|-----|-------|-----|-------|-------|
| CMU CHANNEL NO.       | 1   | 2        | 13    | 3  | 4  | 14    | 5   | 6        | 15       | 7  | 8     | 16    | 9   | 10  | NONE  | 11  | 12    | NONE  |
| PHASE                 | 1   | 2        | 2 PED | 3  | 4  | 4 PED | 5   | 6        | 6 PED    | 7  | 8     | 8 PED | OL1 | OL2 | SPARE | OL3 | OL4   | SPARE |
| SIGNAL HEAD NO.       | 11  | 21,22,25 | NU    | NU | NU | NU    | 51  | 61,62,63 | P61, P62 | NU | 81,82 | 83    | 84  | NU  | NU    | NU  | 23,24 | NU    |
| RED                   |     | 128      |       |    |    |       |     | 134      |          |    | 107   | 107   |     |     |       |     |       | A114  |
| YELLOW                |     | 129      |       |    |    |       |     | 135      |          |    | 108   | 108   |     |     |       |     |       |       |
| GREEN                 |     | 130      |       |    |    |       |     | 136      |          |    | 109   | 109   |     |     |       |     |       |       |
| RED ARROW             | 125 |          |       |    |    |       | 131 |          |          |    | 107   |       |     |     |       |     |       |       |
| YELLOW ARROW          | 126 |          |       |    |    |       | 132 |          |          |    | 108   |       |     |     |       |     |       | A115  |
| FLASHING YELLOW ARROW |     |          |       |    |    |       |     |          |          |    |       |       |     |     |       |     |       |       |
| GREEN ARROW           | 127 |          |       |    |    |       | 133 |          |          |    | 109   | 109   |     |     |       |     |       | A116  |
| Hand icon             |     |          |       |    |    |       |     |          | 119      |    |       |       |     |     |       |     |       |       |
| Person icon           |     |          |       |    |    |       |     |          | 121      |    |       |       |     |     |       |     |       |       |

NU = Not Used

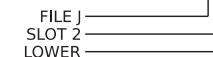
### INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO.         | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | INPUT POINT | DETECTOR NO. | CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN |
|------------------|---------------|-----------------|---------|-------------|--------------|------------|------------|-------------|--------|---------------|------|--------------------|
| 1A               | TB2-1,2       | I1U             | 56      | 18          | 1            | 1          |            |             | X      |               | X    |                    |
| 2A               | TB2-5,6       | I2U             | 39      | 1           | 2            | 2          |            |             | X      | X             | X    |                    |
| 2B               | TB2-7,8       | I2L             | 43      | 5           | 3            | 2          |            |             | X      | X             | X    |                    |
| 2C               | TB2-9,10      | I3U             | 63      | 29          | 4            | 2          |            |             | X      |               | X    |                    |
| 2D               | TB2-11,12     | I3L             | 76      | 42          | 5            | 2          |            |             | X      |               | X    |                    |
| 5A               | TB3-1,2       | J1U             | 55      | 17          | 15           | 5          |            |             | X      |               | X    |                    |
| 6A               | TB3-5,6       | J2U             | 40      | 2           | 16           | 6          |            |             | X      | X             | X    |                    |
| 6B               | TB3-7,8       | J2L             | 44      | 6           | 17           | 6          |            |             | X      | X             | X    |                    |
| 6C               | TB3-9,10      | J3U             | 64      | 30          | 18           | 6          |            |             | X      | X             | X    |                    |
| 8A               | TB5-9,10      | J6U             | 42      | 4           | 22           | 8          |            |             | X      |               | X    |                    |
| 8B               | TB5-11,12     | J6L             | 46      | 8           | 23           | 8          |            |             | X      |               | X    |                    |
| 8C               | TB7-1,2       | J7U             | 66      | 32          | 24           | 8          | 5.0        |             | X      |               | X    |                    |
| *S37             | TB7-9,10      | J9U             | 59      | 21          | 27           | SYS        |            |             |        |               |      |                    |
| *S38             | TB7-11,12     | J9L             | 61      | 23          | 28           | SYS        |            |             |        |               |      |                    |
| *S39             | TB6-9,10      | I9U             | 60      | 22          | 13           | SYS        |            |             |        |               |      |                    |
| PED PUSH BUTTONS |               |                 |         |             |              |            |            |             |        |               |      |                    |
| P61,P62          | TB8-7,9       | I13U            | 68      | 34          | 6            | PED 6      |            |             |        |               |      |                    |

\*System detector only. Remove any assigned vehicle phase.

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

INPUT FILE POSITION LEGEND: J2L



### INPUT FILE POSITION LAYOUT

(front view)

| FILE U   | 1        | 2   | 3        | 4   | 5   | 6   | 7   | 8   | 9             | 10       | 11       | 12       | 13       | 14          |
|----------|----------|-----|----------|-----|-----|-----|-----|-----|---------------|----------|----------|----------|----------|-------------|
| ∅ 1      | ∅ 2      | ∅ 2 | ∅ 2      | ∅ 2 | ∅ 2 | ∅ 2 | ∅ 2 | ∅ 2 | SYS. DET. S39 | ∅ 6 PED  | FS       | ∅ 6 PED  | FS       | DC ISOLATOR |
| 1A       | 2A       | 2C  | 2B       | 2D  | 2E  | 2F  | 2G  | 2H  | NOT USED      | NOT USED | NOT USED | NOT USED | NOT USED | DC ISOLATOR |
| NOT USED | ∅ 2      | ∅ 2 | ∅ 2      | ∅ 2 | ∅ 2 | ∅ 2 | ∅ 2 | ∅ 2 | NOT USED      | NOT USED | NOT USED | NOT USED | NOT USED | ST          |
| FILE U   | ∅ 5      | ∅ 6 | ∅ 6      | ∅ 6 | ∅ 6 | ∅ 6 | ∅ 6 | ∅ 6 | SYS. DET. S37 | ∅ 8      | ∅ 8      | ∅ 8      | ∅ 8      | DC ISOLATOR |
| FILE U   | 5A       | 6A  | 6C       | 6B  | 6D  | 6E  | 6F  | 6G  | NOT USED      | NOT USED | NOT USED | NOT USED | NOT USED | DC ISOLATOR |
| FILE L   | NOT USED | ∅ 6 | NOT USED | ∅ 6 | ∅ 6 | ∅ 6 | ∅ 6 | ∅ 6 | SYS. DET. S38 | ∅ 8      | NOT USED | ∅ 8      | NOT USED | DC ISOLATOR |
| FILE L   | NOT USED | ∅ 6 | NOT USED | ∅ 6 | ∅ 6 | ∅ 6 | ∅ 6 | ∅ 6 | NOT USED      | NOT USED | NOT USED | NOT USED | NOT USED | DC ISOLATOR |

EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME

### OVERLAP PROGRAMMING

Front Panel  
 Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface  
 Home >Controller >Overlap Configuration >Overlaps

#### Overlap Plan 1

|                           |           |
|---------------------------|-----------|
| Overlap (Signal Head No.) | 3 (23,24) |
| Type                      | Normal    |
| Included Phases           | 2,8       |
| Modifier Phases           | -         |
| Modifier Overlaps         | -         |
| Trail Green               | 0         |
| Trail Yellow              | 0.0       |
| Trail Red                 | 0.0       |

Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For:

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 74 - 601 / US 74 (Roosevelt Boulevard) at US 601 (Pageland Highway)

Division 10 Union County Monroe

PLAN DATE: February 2026 REVIEWED BY:

PREPARED BY: Tim Langston REVIEWED BY:

REVISIONS: INIT. DATE

Seal: SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001 D. TODD JOYCE

DocuSigned by: D. Todd Joyce 02/03/2026

SIG. INVENTORY NO. 10-0533

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 10-0533  
 DESIGNED: January 2026  
 SEALED: 02/03/2026  
 REVISED: N/A

### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

### OUTPUT CHANNEL CONFIGURATION

Front Panel  
Main Menu >Controller >More>Channels>Channels Config

Web Interface  
Home >Controller >Advanced IO>Channels>Channel Configuration

#### Channel Configuration

| Channel | Control Type  | Control Source | Flash Yellow | Flash Red | Flash Alt | MMU Channel |
|---------|---------------|----------------|--------------|-----------|-----------|-------------|
| 1       | Phase Vehicle | 1              |              | X         | X         | 1           |
| 2       | Phase Vehicle | 2              |              | X         |           | 2           |
| 3       | Phase Vehicle | 3              |              | X         | X         | 3           |
| 4       | Phase Vehicle | 4              |              | X         |           | 4           |
| 5       | Phase Vehicle | 5              |              | X         |           | 5           |
| 6       | Phase Vehicle | 6              |              | X         | X         | 6           |
| 7       | Phase Vehicle | 7              |              | X         |           | 7           |
| 8       | Phase Vehicle | 8              |              | X         | X         | 8           |
| 9       | Overlap       | 1              |              | X         | X         | 9           |
| 10      | Overlap       | 2              |              | X         | X         | 10          |
| 11      | Overlap       | 3              |              | X         |           | 11          |
| 12      | Overlap       | 4              |              | X         |           | 12          |
| 13      | Phase Ped     | 2              |              |           |           | 13          |
| 14      | Phase Ped     | 4              |              |           |           | 14          |
| 15      | Phase Ped     | 6              |              |           |           | 15          |
| 16      | Phase Ped     | 8              |              |           |           | 16          |
| 17      | Overlap       | 5              |              | X         | X         | 17          |
| 18      | Overlap       | 6              |              | X         |           | 18          |

### MAXTIME STARTUP AND SOFTWARE FLASH PROGRAMMING DETAIL

Front Panel  
Main Menu >Controller >Unit

Web Interface  
Home >Controller >Unit

Modify parameters as shown below and save changes.

#### Start Up Parameters

|                        |
|------------------------|
| StartUp Clearance Hold |
| 6                      |

#### Unit Flash Parameters

|                         |
|-------------------------|
| All Red Flash Exit Time |
| 6                       |


Electrical Detail - Sheet 2 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THIS ELECTRICAL DETAIL IS FOR  
THE SIGNAL DESIGN: 10-0533  
DESIGNED: January 2026  
SEALED: 02/03/2026  
REVISED: N/A

Electrical and Programming Details For:

Prepared In the Offices of:



750 N. Greenfield Pkwy, Garner, NC 27529

US 74 - 601 / US 74  
(Roosevelt Boulevard)  
at  
US 601 (Pageland Highway)

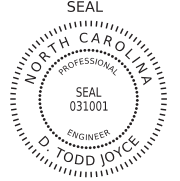
Division 10 Union County Monroe

PLAN DATE: February 2026 REVIEWED BY:

PREPARED BY: Tim Langston REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |
|           |       |      |
|           |       |      |

SEAL



DocuSigned by:  
D. Todd Joyce 02/03/2026

SIG. INVENTORY NO. 10-0533

3:45:26 11:26  
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 tlangston