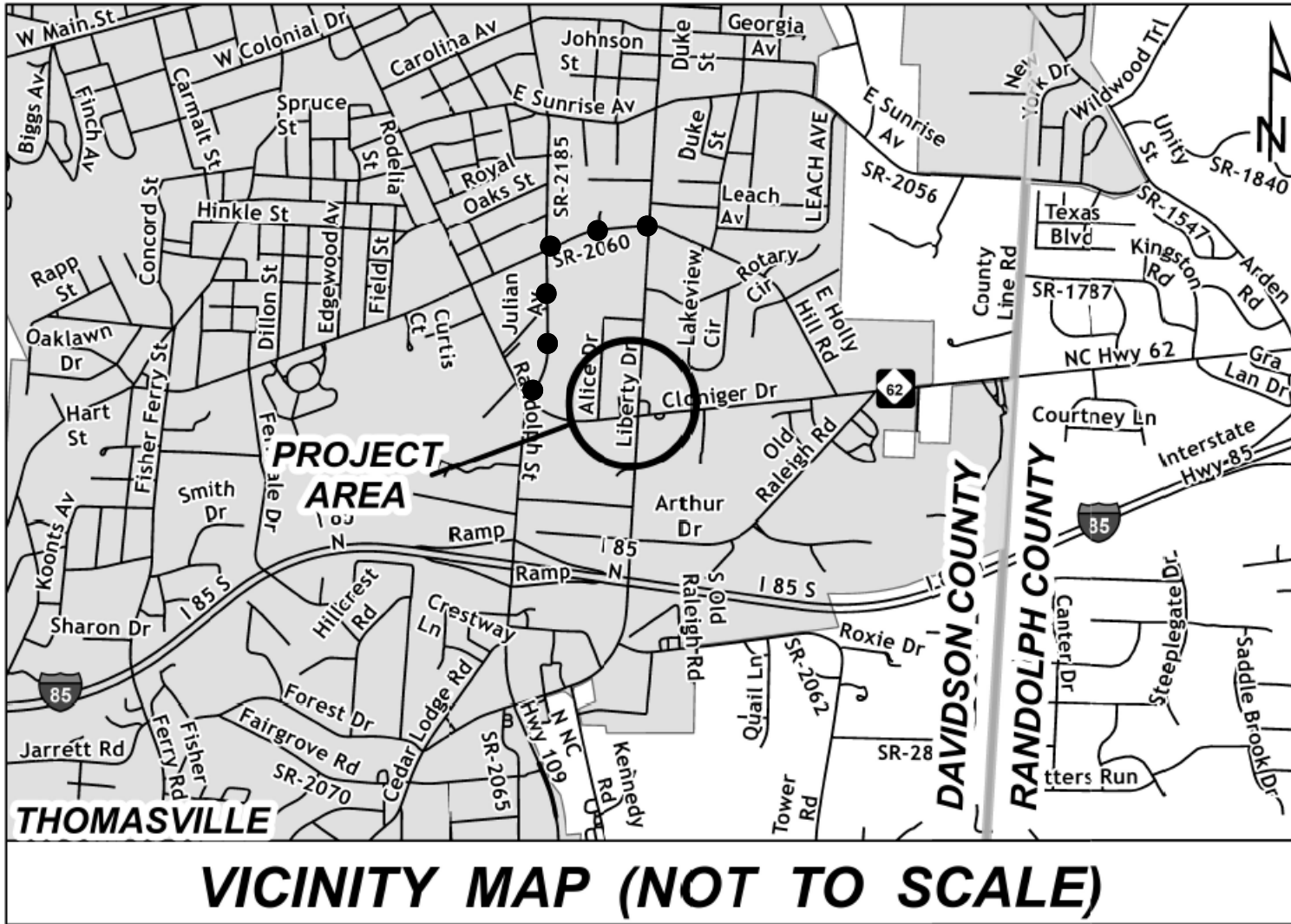


TIP PROJECT: HS-2009L

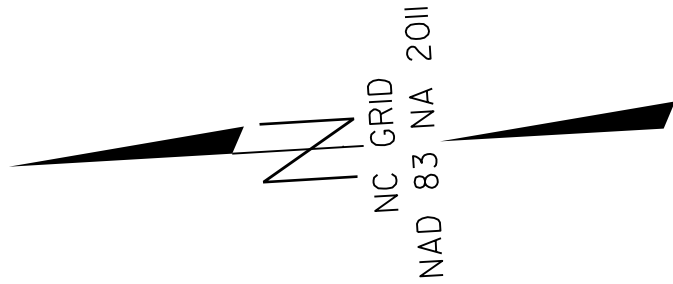
CONTRACT: DI-00369

See Sheet 1A For Index of Sheets



VICINITY MAP (NOT TO SCALE)

OFF SITE DETOUR



BEGIN CONSTRUCTION HS-2009L  
-Y- POT Sta. 11 + 24.00

BEGIN PROJECT HS-2009L  
-L- POT Sta. 18 + 45.00

END CONSTRUCTION HS-2009L  
-Y- POT Sta. 13 + 50.00

END PROJECT HS-2009L  
-L- POT Sta. 20 + 00.00 =  
-Y- POT Sta. 13 + 00.00

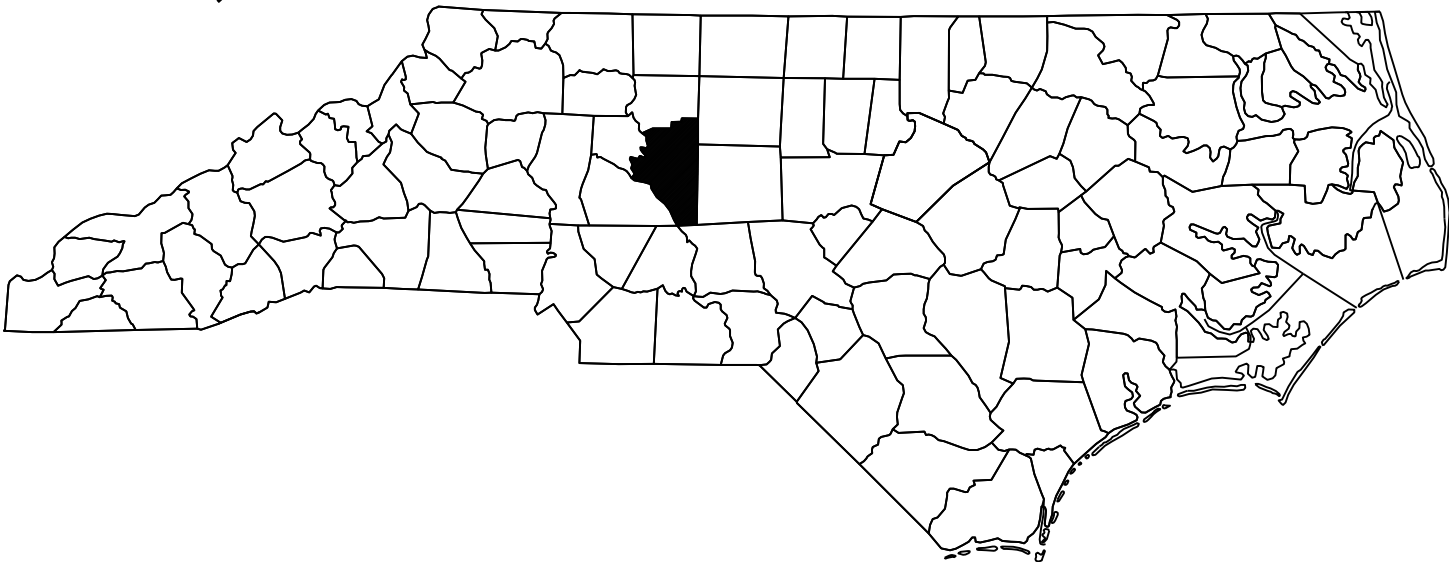
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

DAVIDSON COUNTY

LOCATION: NC 62 (CLONIGER DRIVE) AT SR 2055 (LIBERTY DRIVE)

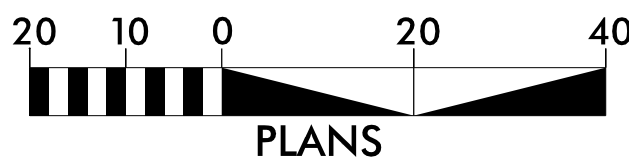
TYPE OF WORK: GRADING, PAVING AND DRAINAGE

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | HS-2009L                    | 1           |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION |              |
| 49321.1.13      | 4932121                     | PE          |              |
| 49321.2.18      | 4932121                     | ROW         |              |
| 49321.2.19      | 4932121                     | UTL         |              |
| 49321.3.13      | 4932121                     | CON         |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

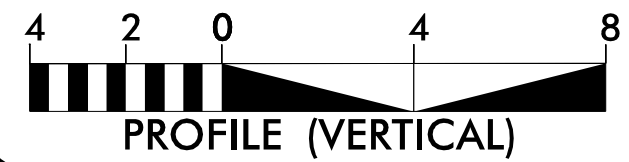
GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

DESIGN DATA

ADT 2024 = 10,050

ADT 2044 = 11,110

DESIGN SPEED = 40 MPH

POSTED SPEED = 35 MPH

FUNC CLASS =

MINOR ARTERIAL

PROJECT LENGTH

TOTAL LENGTH ROADWAY TIP PROJECT HS-2009L: 0.029 MILES

Prepared In the Office of:

DIVISION OF HIGHWAYS

NINTH DIVISION DESIGN/CONSTRUCT  
375 SILAS CREEK PKWY, WINSTON-SALEM, NC 27127

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

N/A

LETTING DATE:

JUNE 25, 2025

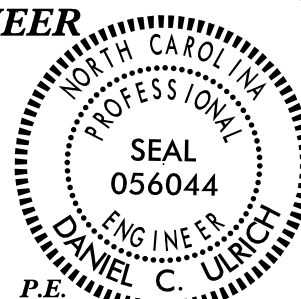
DANIEL C. ULRICH, PE, PLS  
PROJECT ENGINEER

DANIEL C. ULRICH, PE, PLS  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

DocuSigned by:  
Daniel Ulrich  
9136A955F61E400...

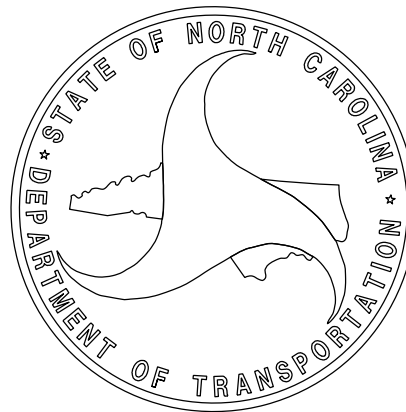
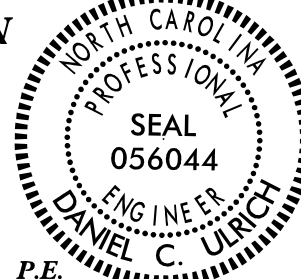
SIGNATURE:



ROADWAY DESIGN  
ENGINEER

DocuSigned by:  
Daniel Ulrich  
9136A955F61E400...

SIGNATURE:



|  |  |
|--|--|
| PROJECT REFERENCE NO.  | SHEET NO.  |
| HS-2009L   | 1A   |
|  | ROADWAY DESIGN ENGINEER  |
|  | <div><div><div>PROFESSIONAL SEAL<br/>056044<br/>ENGINEER<br/>DANIEL C. URICH</div><div>DocuSign<br/>Daniel Urich<br/>9136A995F61E400</div></div></div> |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |  |



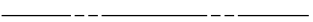
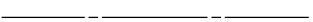








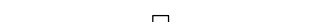











|                    |   |   |   |  |
|--------------------|---|---|---|--|
| INDEX OF SHEETS    |   | EFF. 01-16-2024   | GENERAL NOTES:  | 2024 SPECIFICATIONS<br>EFFECTIVE: 01-16-2024<br>REVISED: |
| SHEET NUMBER       | SHEET   | 2024 ROADWAY ENGLISH STANDARD DRAWINGS  |   |  |
| 1                  | TITLE SHEET   | The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:  | GRADING AND SURFACING OR RESURFACING AND WIDENING:  |  |
| 1A                 | INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS |   | THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN. |  |
| 1B                 | CONVENTIONAL SYMBOLS                                  | STD.NO. TITLE   | CLEARING:   |  |
| 2A                 | PAVEMENT SCHEDULE AND TYPICAL SECTIONS                | DIVISION 2 - EARTHWORK<br>200.03 Method of Clearing - Method III<br>225.02 Guide for Grading Subgrade - Secondary and Local<br>225.04 Method of Obtaining Superelevation - Two Lane Pavement<br>225.06 Method of Grading Sight Distance at Intersections  | CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.   |  |
| 3B                 | ROADWAY SUMMARIES                                     | DIVISION 3 - PIPE CULVERTS<br>300.01 Method of Pipe Installation  | SUPERELEVATION:   |  |
| 3D                 | DRAINAGE SUMMARIES                                    | DIVISION 5 - SUBGRADE, BASES AND SHOULDERS<br>560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I  | ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.   |  |
| 4 THRU 5           | PLAN AND PROFILE SHEET                                | DIVISION 6 - ASPHALT BASES AND PAVEMENTS<br>654.01 Pavement Repairs   | SHOULDER CONSTRUCTION:  |  |
| RW-1               | SURVEY CONTROL SHEETS                                 | DIVISION 8 - INCIDENTALS<br>806.01 Concrete Right-of-Way Marker<br>840.00 Concrete Base Pad for Drainage Structures<br>840.01 Brick Catch Basin - 12" thru 54" Pipe<br>840.02 Concrete Catch Basin - 12" thru 54" Pipe<br>840.03 Frame, Grates and Hood - for Use on Standard Catch Basin<br>840.45 Precast Drainage Structure<br>840.46 Traffic Bearing Precast Drainage Structure<br>840.51 Brick Manhole - 12" thru 36" Pipe<br>840.52 Precast Manhole - 4', 5' and 6' Diameter 12" thru 48" Pipe<br>840.53 Precast Manhole with Masonry Base - 12" thru 42" Pipe<br>840.54 Manhole Frame and Cover<br>840.66 Drainage Structure Steps<br>840.71 Concrete and Brick Pipe Plug<br>846.01 Concrete Curb, Gutter and Curb & Gutter<br>848.02 Driveway Turnout - Radius Type | ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01   |  |
| TMP-1 THRU TMP-4   | TRAFFIC MANAGEMENT PLANS                              |   | SIDE ROADS:   |  |
| PMP-1 THRU PMP-2   | PAVEMENT MARKING PLANS                                |   | THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.  |  |
| EC-1 THRU EC-4     | EROSION CONTROL PLANS                                 |   | DRIVEWAYS:  |  |
| SIGN-1 THRU SIGN-2 | SIGNING PLANS   |   | DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.  |  |
| X-1 THRU X-5       | CROSS-SECTIONS  |   | SUBSURFACE PLANS:   |  |
|                    |   |   | NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.  |  |
|                    |   |   | UTILITIES:  |  |
|                    |   |   | UTILITY OWNERS ON THIS PROJECT ARE CITY OF THOMASVILLE, DUKE ENERGY, LUMOS, PIEDMONT NATURAL GAS COMPANY, CHARTER COMMUNICATIONS  |  |
|                    |   |   | RIGHT-OF-WAY MARKERS:   |  |
|                    |   |   | ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.   |  |









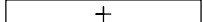


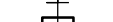

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale






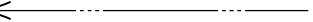



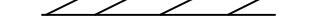

BOUNDARIES AND PROPERTY:

|                                       |   |
|---------------------------------------|---|
| 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                           |  |



















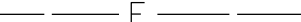
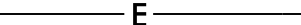





HYDROLOGY:

|                                    |  |
|------------------------------------|--|
| 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                         |   |






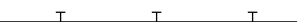








RAILROADS:



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

RIGHT OF WAY & PROJECT CONTROL:

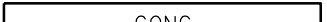


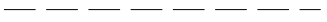





|  |   |
|--|---|
| Primary Horiz Control Point                          |    |
| Primary Horiz and Vert Control Point                 |    |
| Secondary Horiz and Vert Control Point               |    |
| Vertical Benchmark                                   |    |
| Existing Right of Way Monument                       |    |
| 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             |  |
| 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               |  |
| Hedge                      |  |












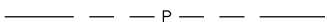
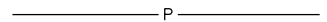
|            |   |
|------------|---|
| Woods Line |  |
| Orchard    |  |
| Vineyard   |  |

EXISTING STRUCTURES:








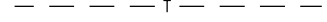
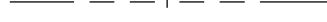
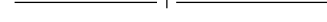
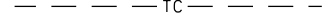
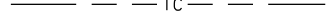
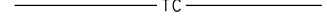



|  |   |
|--|---|
| MAJOR:                                   |   |
| Bridge, Tunnel or Box Culvert            |  |
| Bridge Wing Wall, Head Wall and End Wall |  |
| MINOR:                                   |   |
| Head and End Wall                        |  |
| Pipe Culvert                          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

UTILITIES:






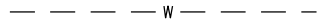
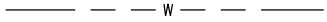
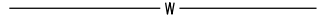
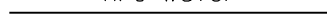
\* SUE – Subsurface Utility Engineering  
LOS – Level of Service – A,B,C or D (Accuracy)

|   |   |
|---|---|
| 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)*           |  |









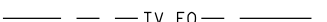

TELEPHONE:

|  |   |
|--|---|
| 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)*  |  |




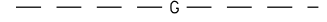
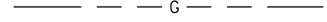
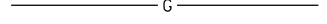

WATER:

|   |   |
|---|---|
| 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                 |  |



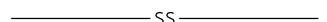
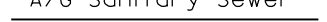

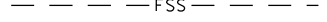


TV:

|                                      |   |
|--------------------------------------|---|
| 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)* |  |








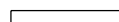



GAS:

|                                       |   |
|---------------------------------------|---|
| 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)*           |  |
| Above Ground Gas Line                 |  |

SANITARY SEWER:

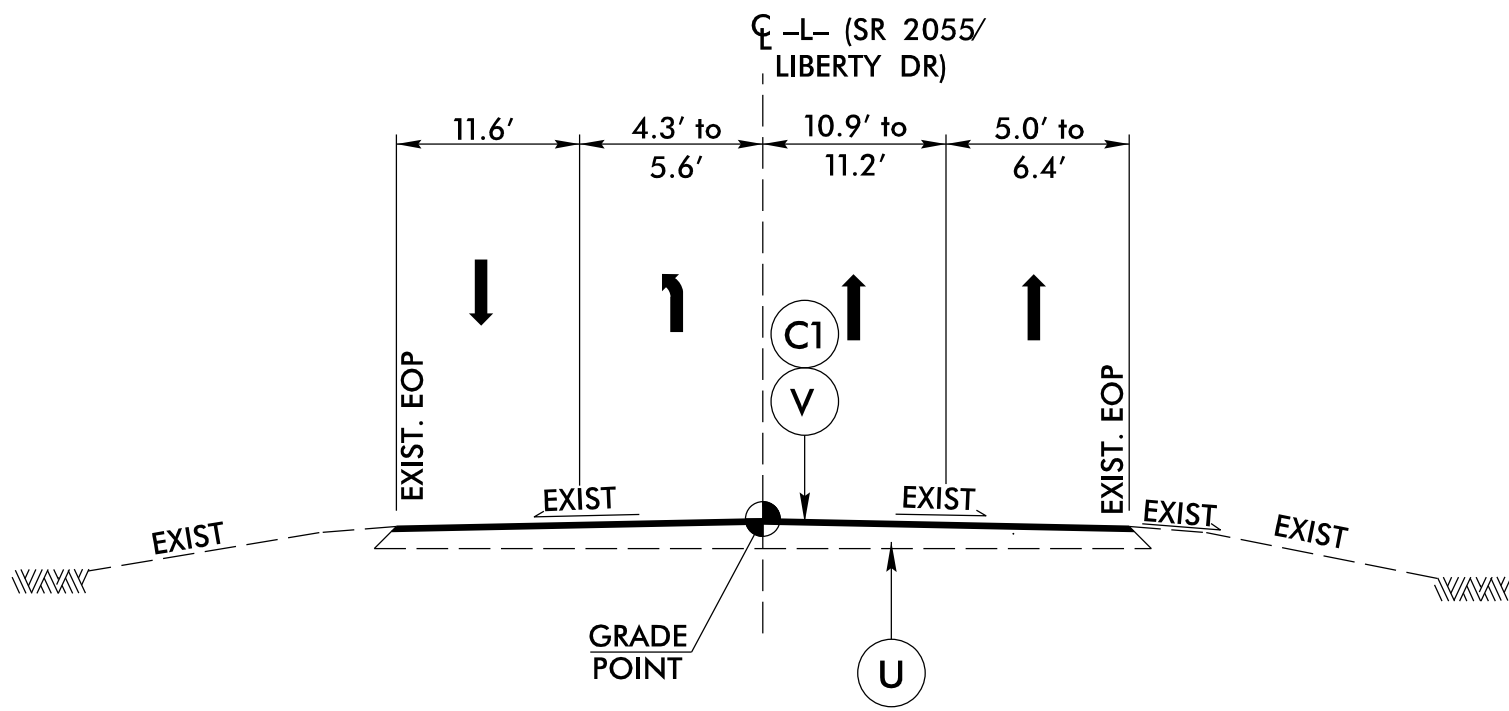
|   |   |
|---|---|
| Sanitary Sewer Manhole                      |  |
| Sanitary Sewer Cleanout                     |  |
| U/G Sanitary Sewer Line                     |  |
| Above Ground Sanitary Sewer                 |  |
| SS Force Main Line Test Hole (SUE – LOS A)* |  |
| SS Force Main Line (SUE – 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                      |  |

| PAVEMENT SCHEDULE |  |
|-------------------|--|
| C1                | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.  |
| C2                | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.  |
| C3                | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.                         |
| D1                | PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.   |
| D2                | PROP. VAR. DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH. |
| E1                | PROP. APPROX. 4½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.  |
| E2                | PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.      |
| R                 | PROP. 2'-6" CONCRETE CURB & GUTTER   |
| T                 | EARTH MATERIAL   |
| U                 | EXISTING PAVEMENT  |
| V                 | MILLING ASPHALT PAVEMENT (1.5" DEPTH)  |
| W                 | VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL ON THIS SHEET)  |

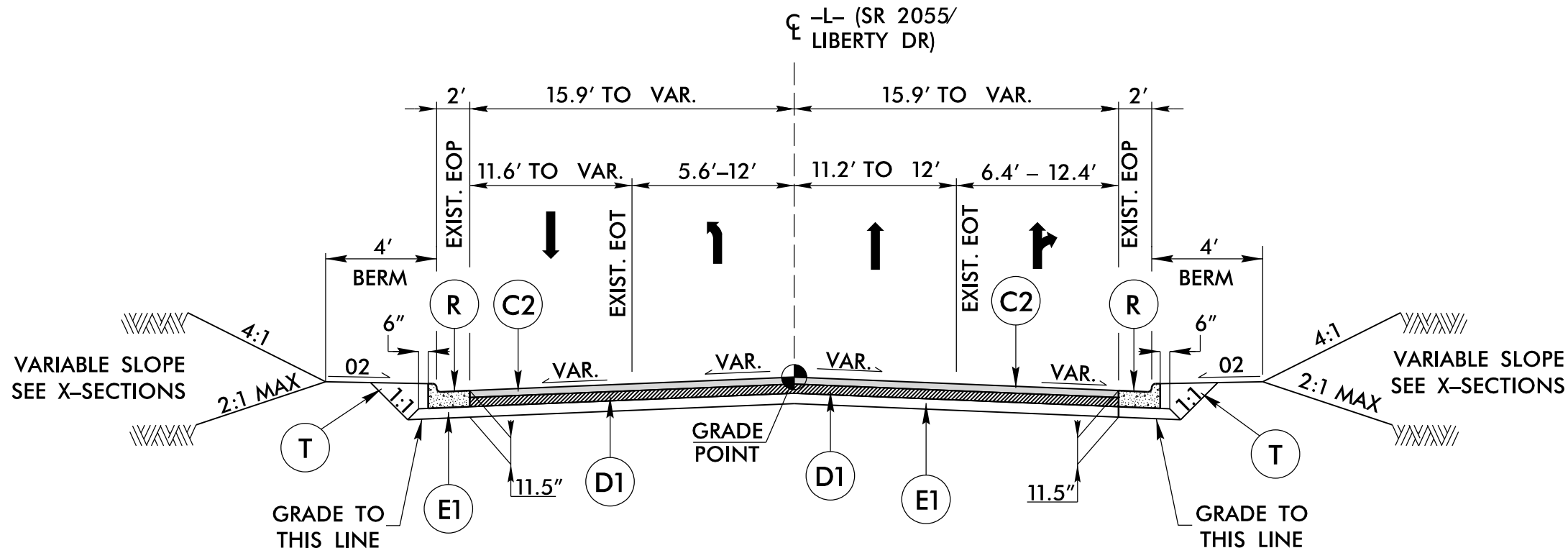
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



### TYPICAL SECTION NO. 1

-L- 18+45 TO -L- STA. 18+60

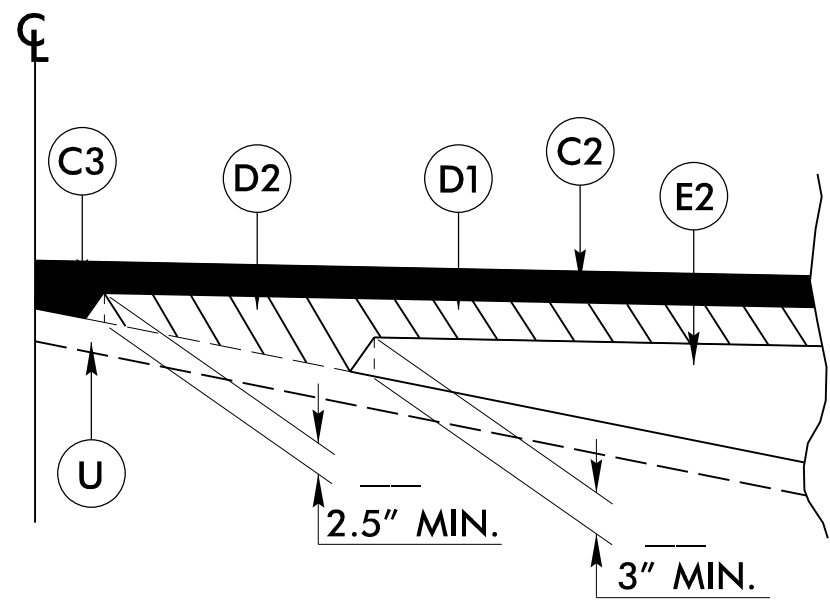
- NOTES:  
1) SEE CROSS SECTIONS FOR DETAILS.  
2) SEE ROADWAY STANDARD DRAWING 848.02 FOR DRIVEWAY TIE.



### TYPICAL SECTION NO. 2

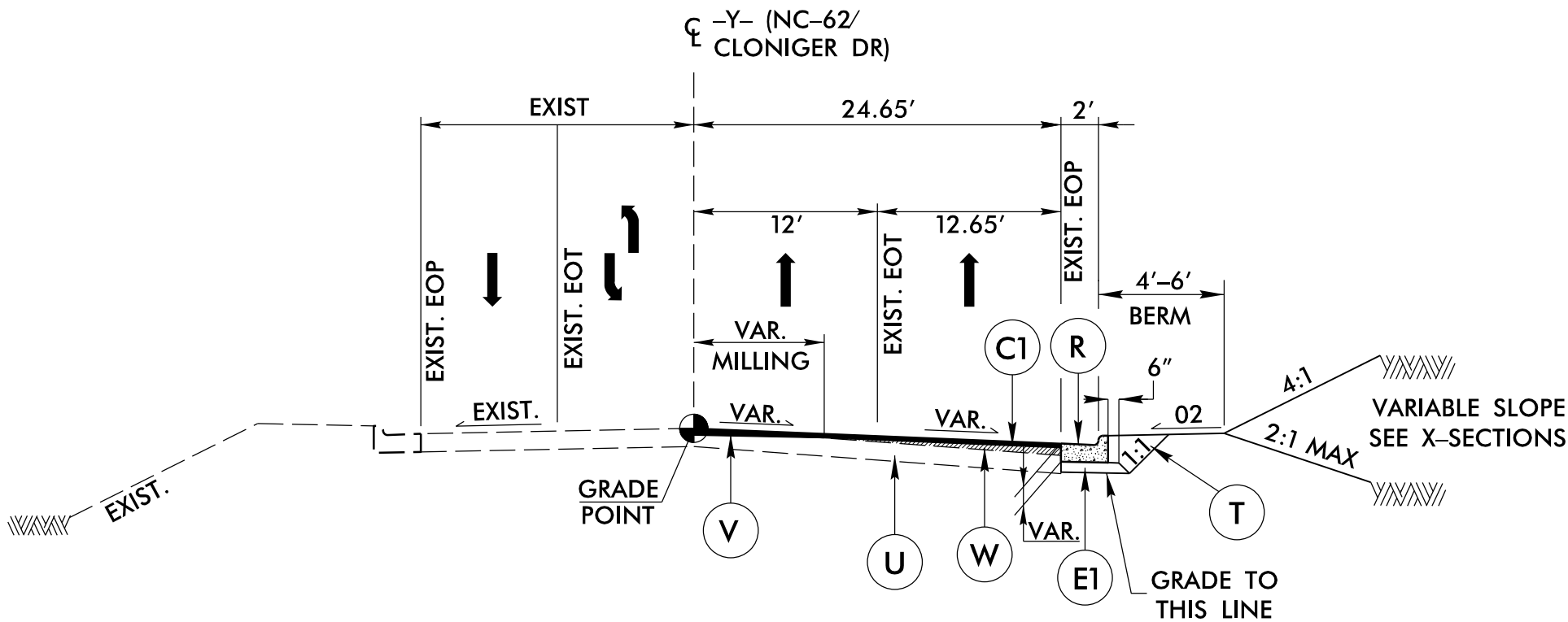
-L- STA. 18+60 TO -L- STA. 19+75 (INTERSECTION)

NOTE: SEE CROSS SECTIONS FOR DETAILS



### WEDGING DETAIL - W

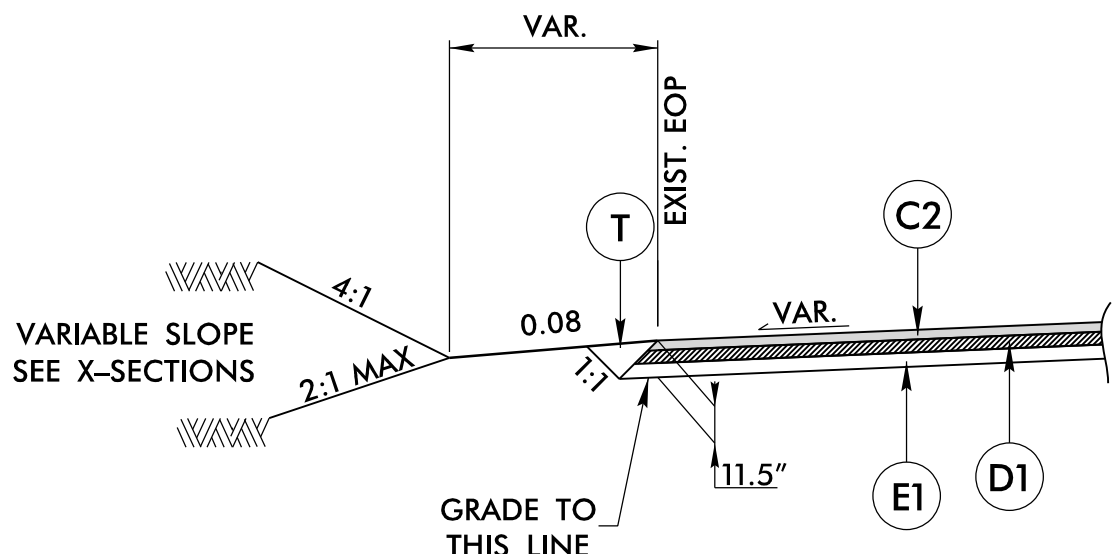
NOT TO SCALE  
USE IN CONJUNCTION WITH TS No. 1-3



### TYPICAL SECTION NO. 3

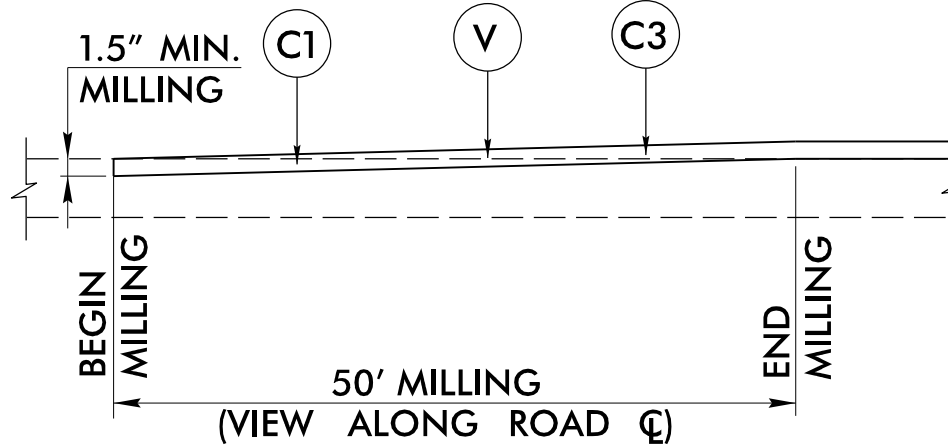
-Y- STA. 11+30 TO -Y- STA. 13+50

NOTE: SEE CROSS SECTIONS FOR DETAILS



### LEFT SHOULDER DETAIL

NOT TO SCALE  
USE IN CONJUNCTION WITH TS No. 2  
FROM -L- STA. 18+60 TO -L- STA. 18+95



### MILLING DETAIL

NOT TO SCALE  
USE IN CONJUNCTION WITH TS No. 1-3

| PROJECT REFERENCE NO.   | SHEET NO. |
|---|-----------|
| HS-2009L  | 2A        |
| RW SHEET NO.  |           |
| ROADWAY DESIGN ENGINEER                                       |           |
| SEAL 056044   |           |
| ENGINEER DANIEL C. URBCH                                      |           |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED |           |



STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

| SURVEY LINE | STATION                        | STATION | UNCL EXCAV. | UNDERCUT (CONTINGENCY) | EMBANK. + 20% | BORROW | WASTE |
|-------------|--------------------------------|---------|-------------|------------------------|---------------|--------|-------|
| -L-         | 18 + 25                        | 19 + 75 | 170         |                        | 25            | 0      | 145   |
| -Y-         | 11 + 25                        | 13 + 75 | 15          |                        | 20            | 5      | 0     |
|             |                                |         |             |                        |               |        |       |
|             | SHALLOW UNDERCUT (CONTINGENCY) |         |             | 10                     |               |        | 10    |
|             |                                |         |             |                        |               |        |       |
|             | SUBTOTAL                       |         | 185         | 10                     | 45            | 5      | 155   |
|             | 10% CONTINGENCY                |         |             |                        |               |        |       |
|             | GRAND TOTALS                   |         | 204         | 11                     | 50            | 6      | 171   |
|             | SAY                            |         | 205         | 15                     | 50            | 10     | 175   |

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, CLEARING & GRUBBING AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR GRADING.

PAVEMENT REMOVAL SUMMARY

| SURVEY LINE | STATION     | STATION     | SQ. YD | NOTES                            |
|-------------|-------------|-------------|--------|----------------------------------|
| -L-         | 18 + 45 +/- | 19 + 75 +/- | 740    | REMOVING ON -L- TO LOWER PROFILE |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             |             |        |                                  |
|             |             | TOTAL:      | 740    |                                  |
|             |             |             |        |                                  |
|             |             | SAY:        | 750    |                                  |



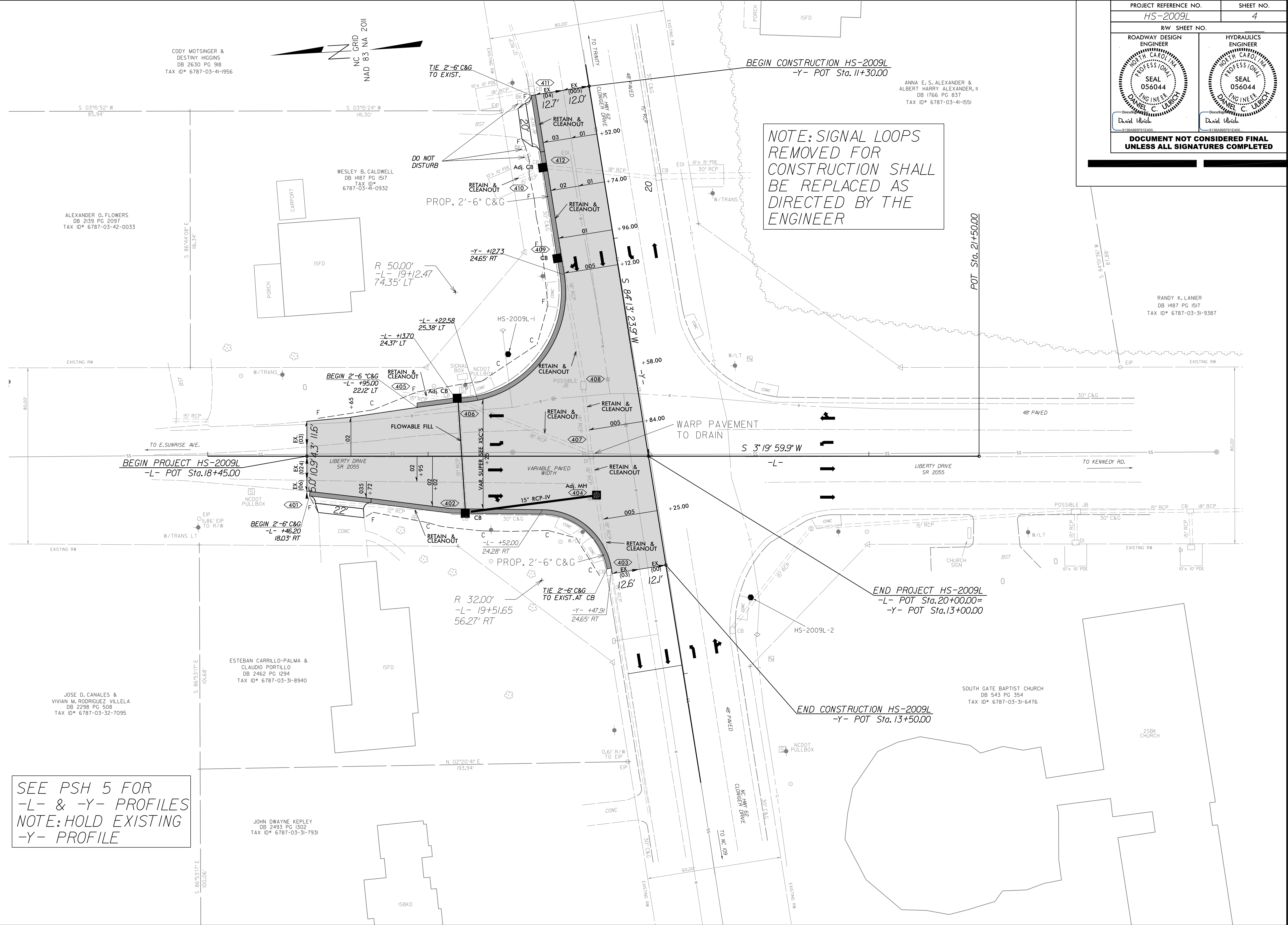


REVISIONS

8/17/99

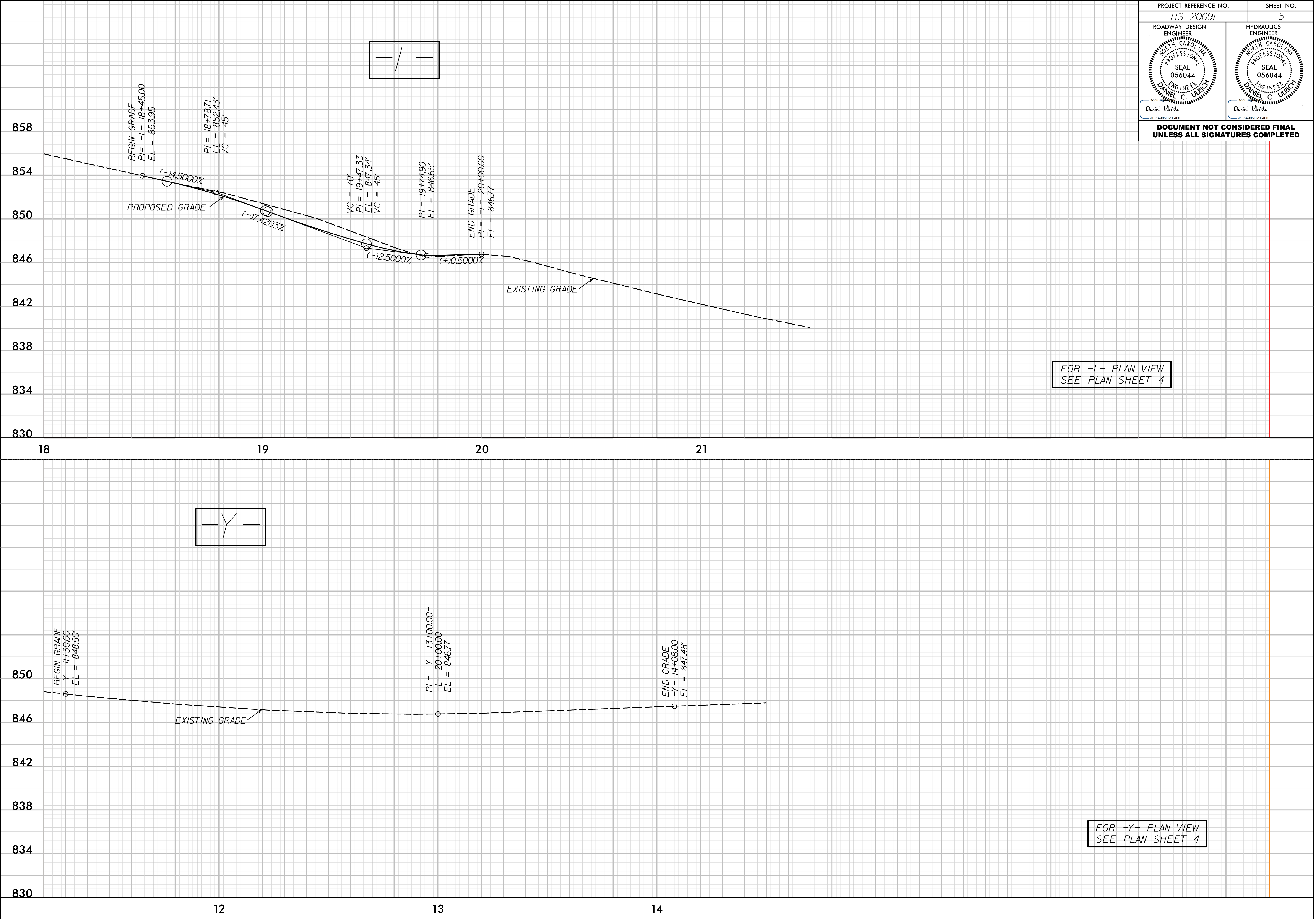
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\$\$\$\$\$USERNAME\$\$\$\$\$

SEE PSH 5 FOR  
-L- & -Y- PROFILES  
NOTE: HOLD EXISTING  
-Y- PROFILE



| PROJECT REFERENCE NO.  |  | SHEET NO.                                   |
|--|--|---|
| HS-2009L   |  | 4   |
| RW SHEET NO.   |  | HYDRAULICS ENGINEER                         |
| ROADWAY DESIGN ENGINEER  |  | SEAL 056044<br>ENGINEER<br>DANIEL C. ULRICH |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |  |   |

5/28/99  
25-APR-2025 16:00  
C:\Users\jlp\Documents\Projects\HS\HS-2009L-NC62-LibertyDr-Roadway\HS-2009L-DDC\_PFL\_SHEET.dgn  
jlp  
AT 1108-3286421





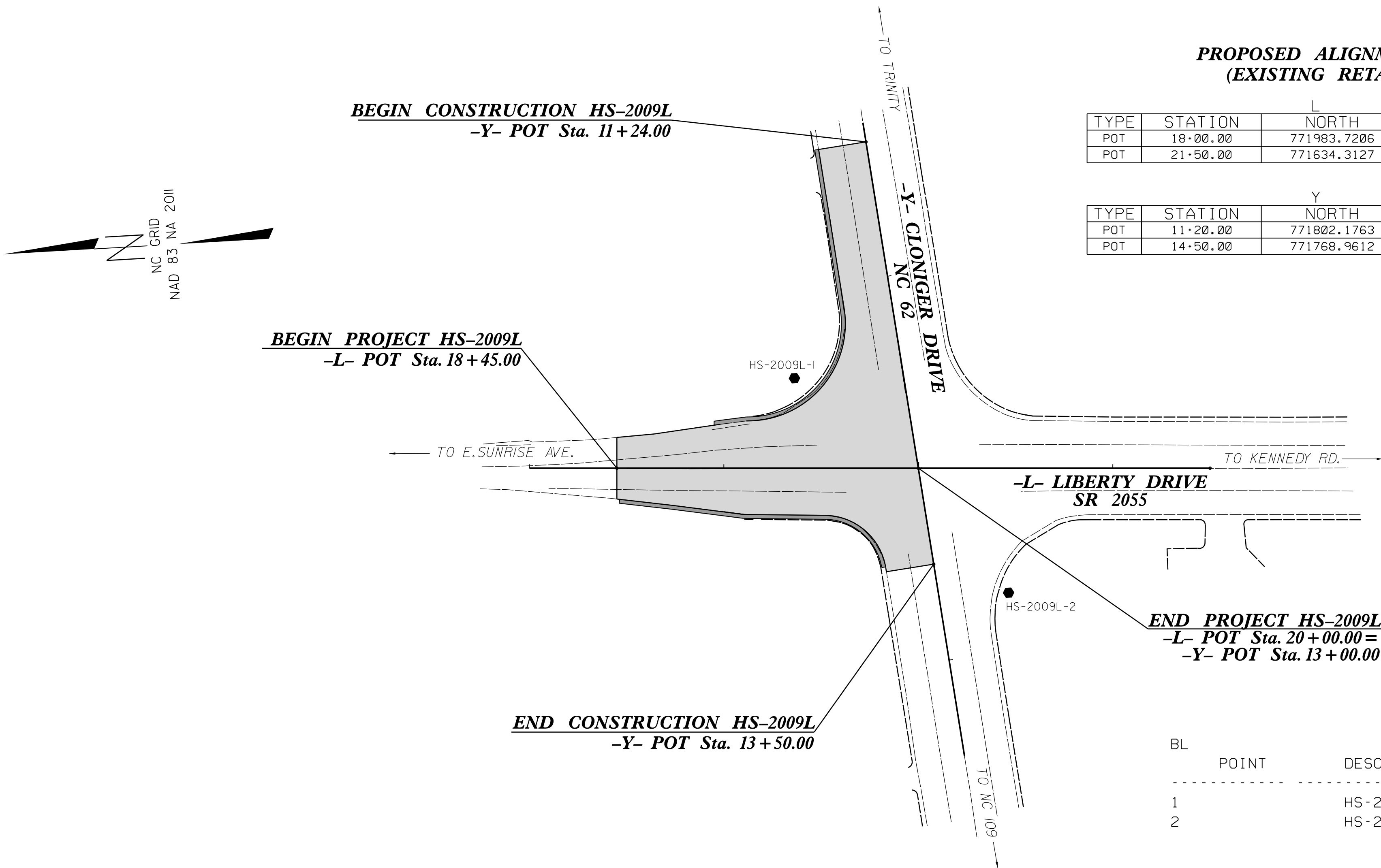
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------|-----------------------------|-----------|--------------|
| N.C.  | HS-2009L                    | RW01      | 1            |

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

SURVEY CONTROL AND EXISTING CENTERLINES

**DAVIDSON COUNTY**

TIP PROJECT: HS-2009L



I, Jeremy L. Keaton, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**  
Type of GPS field procedure: RTN  
Dates of survey: April 23 through May 2, 2024  
Datum/Epoch: NAD 83 (2011)  
Published/Fixed-control use: N/A  
Localized around: "HS-2009L-2"  
Northing: 771,741.458 (ft)  
Easting: 1,683,853.957 (ft)  
Combined grid factor: 0.999949415  
Geoid model: 18  
Units: US Survey Foot

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 04/23/24 to 05/02/24, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 16th day of April, 2025.

Designed by:

Jeremy L. Keaton

Professional Land Surveyor L-4487

| SURVEY CONTROL |            |       |             |              |           |
|----------------|------------|-------|-------------|--------------|-----------|
| BL             | POINT      | DESC. | NORTH       | EAST         | ELEVATION |
| 1              | HS-2009L-1 |       | 771844.9570 | 1683970.5070 | 848.69    |
| 2              | HS-2009L-2 |       | 771741.4580 | 1683853.9570 | 846.44    |

GRAPHIC SCALE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "HS-2009L-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 771,741.458(ft) EASTING: 1,683,853.957(ft) ELEVATION: 846.443(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999959415 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HS-2009L-2" TO -L- STATION 18+00 IS N 17-54'19.42" E 254.594(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

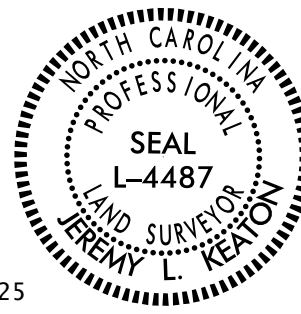
**DIVISION OF HIGHWAYS**  
NINTH DIVISION DESIGN/CONSTRUCT  
375 SILAS CREEK PKWY, WINSTON-SALEM, NC 27127

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
N/A

LETTING DATE:  
JUNE 25, 2025

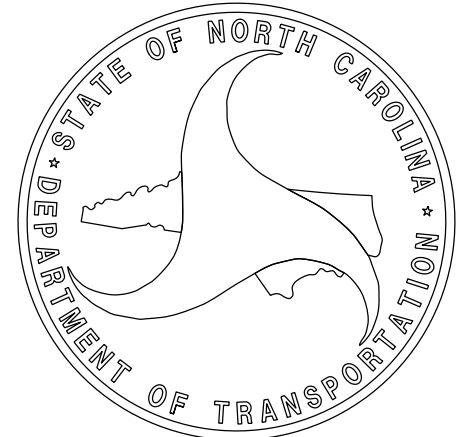
PROFESSIONAL LAND  
SURVEYOR



DocuSigned by:  
Jeremy L. Keaton  
717D77F066A4489...

04/16/2025

Date:

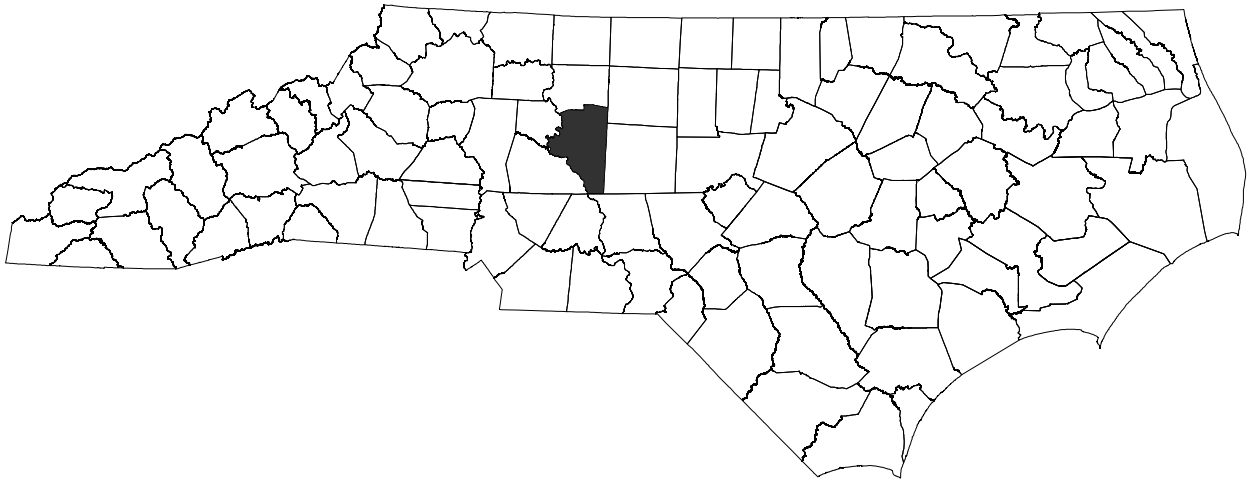


STATE OF NORTH CAROLINA

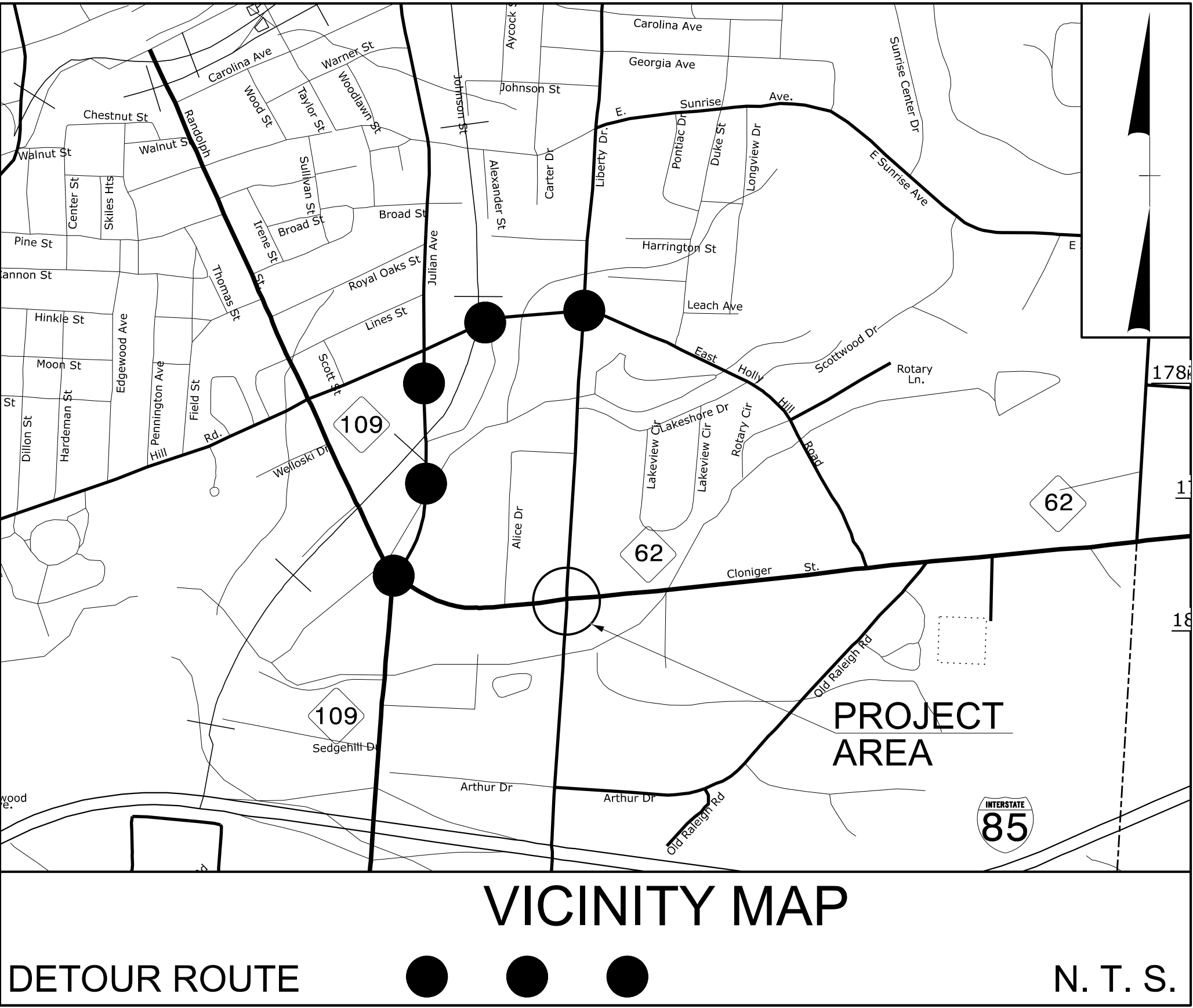
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

DAVIDSON COUNTY



LOCATION: NC 62 (CLONIGER DRIVE) AT SR 2055 (LIBERTY DRIVE)  
IMPROVEMENT OF VERTICAL ALIGNMENT



PLANS PREPARED BY:

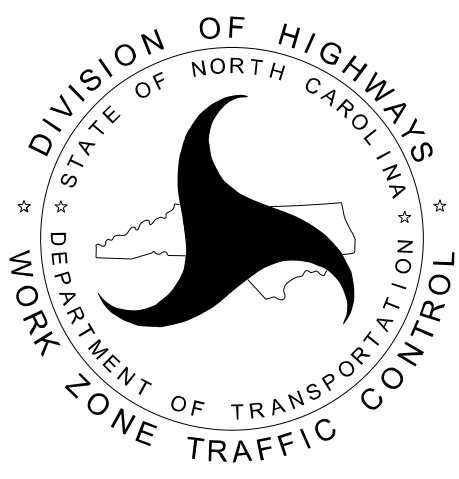
MATTHEW DOUGLAS,P.E.  
PROJECT ENGINEER

JOCELYN ADORNO,P.E.  
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

MATTHEW JONES,P.E.  
PROJECT ENGINEER

DANIEL ULRICH,P.E.  
PROJECT DESIGN ENGINEER



**VIAS**  
**INFRASTRUCTURE**

220 HORIZON DRIVE - SUITE 117  
RALEIGH, NC 27615  
PHONE (727) 214-7698  
LICENSE NO. P-2673  
WWW.VIASINFRASTRUCTURE.COM

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

APPROVED:   
DATE: 4/8/2025



SHEET NO.  
TMP-1

CONTRACT: DI-000369 TIP PROJECT: HS-2009L

| SHEET NO. | TITLE   |
|-----------|---|
| TMP-1     | TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS                                      |
| TMP-1A    | LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND                            |
| TMP-1B    | TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND PHASING) |
| TMP-2     | SPECIAL SIGN DESIGN   |
| TMP-3     | OFF-SITE DETOUR   |
| TMP-4     | TEMPORARY TRAFFIC CONTROL PHASE 1 DETAIL  |










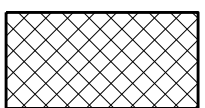
ROADWAY STANDARD DRAWINGS

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

| STD. NO. | TITLE                           |
|----------|---------------------------------|
| 1101.01  | WORK ZONE ADVANCE WARNING SIGNS |
| 1101.02  | TEMPORARY LANE CLOSURES         |
| 1101.03  | TEMPORARY ROAD CLOSURES         |
| 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  | DRUM                            |
| 1135.01  | CONES                           |
| 1145.01  | BARRICADES                      |
| 1165.01  | TRUCK MOUNTED ATTENUATOR        |
| 1180.01  | SKINNY DRUMS                    |

LEGEND

GENERAL

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







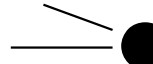

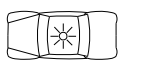
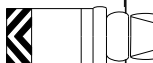
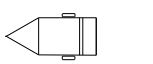

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY




PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES




TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

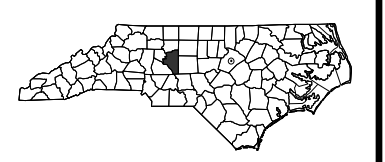
PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

HS-2009L

3TMI TMP-1A

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIDSON COUNTY



WORK ZONE TRAFFIC CONTROL UNIT

WORK ZONE TRAFFIC  
CONTROL ENGINEER



4/8/2025

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

WORK ZONE TRAFFIC  
CONTROL PREPARED BY



220 HORIZON DRIVE - SUITE 117  
RALEIGH, NC 27615  
PHONE (727) 214-7698  
LICENCE NO P-2673  
WWW.VIASINFRASTRUCTURE.COM

ROADWAY STANDARD  
DRAWINGS & LEGEND

REVISIONS



## MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

- FULL ROADWAY CLOSURE
- LANE SHIFTS OR CLOSURES
- NIGHT WORK
- WEEKEND WORK
- WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
- OFF SITE DETOURS/USE OF ALTERNATIVE ROUTES
- LOCAL DETOUR ROUTES

## 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 AND EXCEPT AS DIRECTED IN PHASE I, STEP 2.

### TIME RESTRICTIONS

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

| ROAD NAME                | DAY AND TIME RESTRICTIONS |
|--------------------------|---------------------------|
| -L- SR 2055 (LIBERTY DR) | MONDAY THRU FRIDAY        |
| -Y- NC 62 (CLONIGER DR)  | 7AM-9AM & 4PM-7PM         |

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

| ROAD NAME                |
|--------------------------|
| -L- SR 2055 (LIBERTY DR) |
| -Y- NC 62 (CLONIGER DR)  |
| HOLIDAY                  |

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 4:00 P.M. DECEMBER 31ST TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 4:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 4:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 4:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.

- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 4:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.

- FOR CHRISTMAS, BETWEEN THE HOURS OF 4:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

- C) 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

- D) 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.

- E) 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.

- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

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

- G) 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.

- H) 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

- I) 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.

- J) 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) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- L) 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.

- M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND THE TRAFFIC CONTROL PLANS AND PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

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

- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC CONTROL DEVICES

- P) 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.

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

### PAVEMENT MARKINGS AND MARKERS

- R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

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

- U) 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) 350' AND 350' RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

## PHASING

### PHASE I:

- STEP 1** INSTALL WORK ZONE SIGNING ALONG ALL APPROACH ROADWAYS (ROADWAY STANDARD DRAWING 1101.01 SHEET 3 OF 3). ESTABLISH PRELIMINARY EROSION CONTROL MEASURES AND THEN CLEAR AND GRUB PROJECT LIMITS.

- STEP 2** INSTALL OFF-SITE DETOUR SIGNING FOR -L- (LIBERTY DR) AS SHOWN ON TMP-3 AND ROADWAY STANDARD DRAWINGS 1101.03 SHEETS 1 AND 2 OF 9. CLOSE -L- TO TRAFFIC. USING STANDARD DRAWING 1101.02 SHEET 3 OF 19 AND TMP-4 CLOSE WESTBOUND, OUTSIDE THRU-LANE ON -Y- (NC 62 - CLONIGER DR.) FROM WHERE LANE DEVELOPS (ROUGHLY 450' EAST OF -L- INTERSECTION) TO ROUGHLY 200' WEST OF -L- INTERSECTION. AWAY FROM TRAFFIC AND BEHIND DRUMS CONSTRUCT THE PROPOSED ROAD RECONSTRUCTION, DRIVEWAY TIE INS, DRAINAGE STRUCTURES, CURB AND GUTTER, AND PAVEMENT MARKINGS FOR ALL OF -L-.

### PHASE II:

- STEP 1** USING TEMPORARY LANE CLOSURES ON -Y- (NC 62 - CLONIGER DR), CLOSING ONLY ONE LANE AT A TIME, AND USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 3 AND 7 OF 19, MILL AND OVERLAY THE EXISTING PAVEMENT.

### PHASE III:

- STEP 1** USING TEMPORARY LANE CLOSURES (ROADWAY STANDARD DRAWING 1101.02 SHEETS 3 AND 7 OF 19), CONSTRUCT REMAINING PORTION OF THE PROJECT NOT COMPLETED IN PREVIOUS PHASES INCLUDING FINAL PAVEMENT MARKINGS ON -Y-.


- STEP 2** REOPEN -L- TO TRAFFIC AND REMOVE ALL TRAFFIC CONTROL DEVICES.

REVISIONS

HS-2009L


3TMI    TMP-1B

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIDSON COUNTY



WORK ZONE TRAFFIC CONTROL UNIT

WORK ZONE TRAFFIC CONTROL ENGINEER



5/8/2025

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

WORK ZONE TRAFFIC CONTROL PREPARED BY

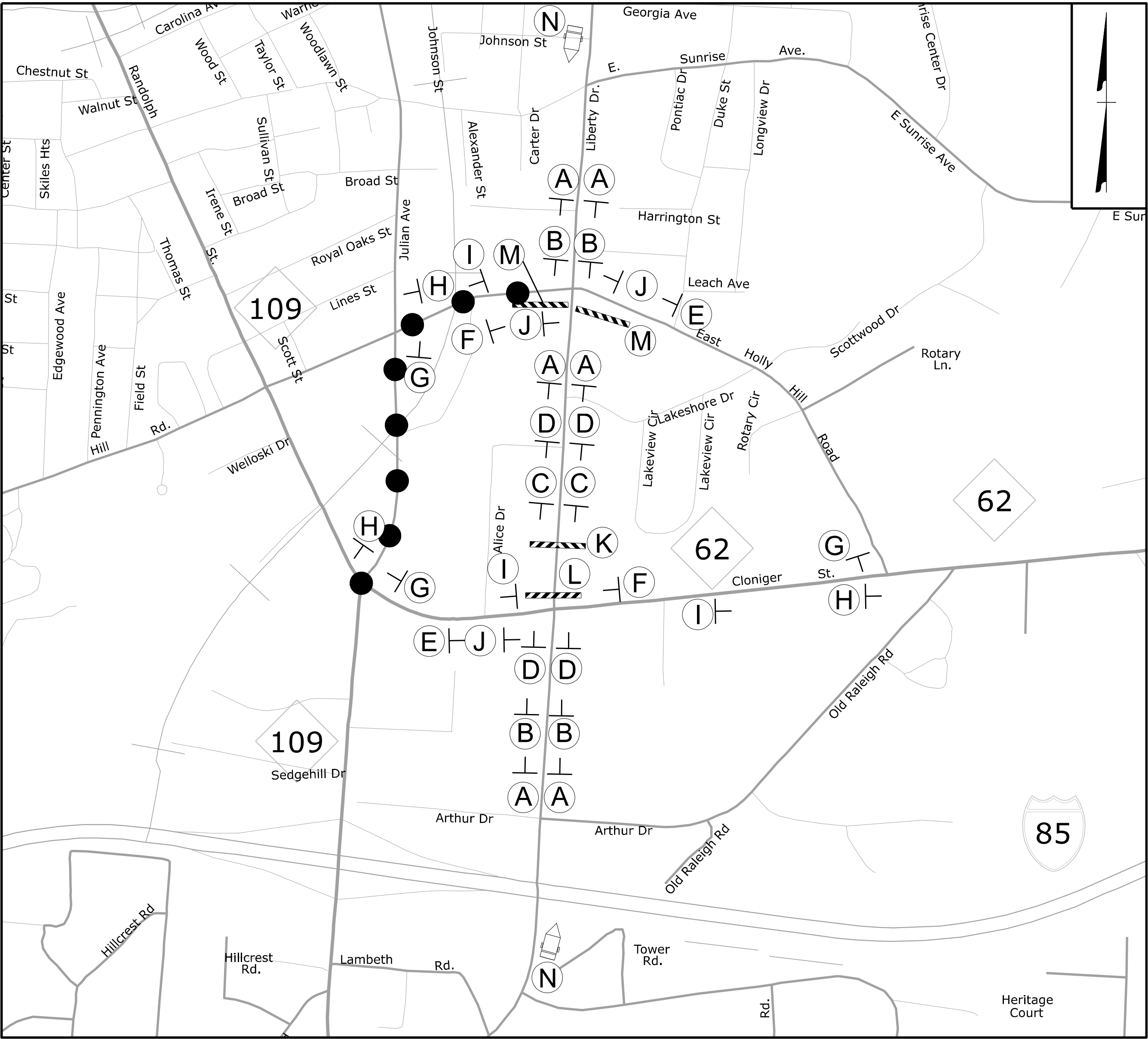


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TRANSPORTATION  
OPERATIONS  
PLAN



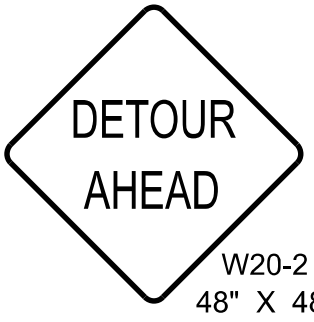




● ● ● OFF-SITE DETOUR ROUTE



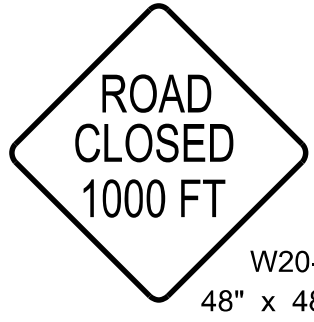
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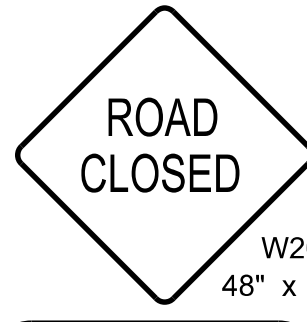
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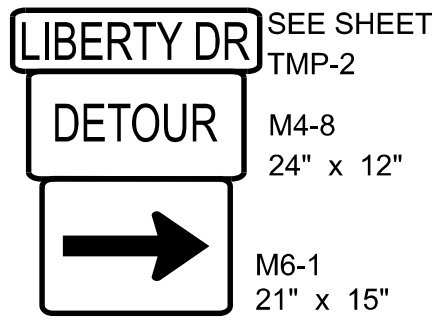
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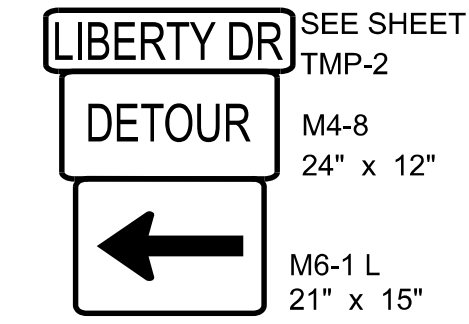
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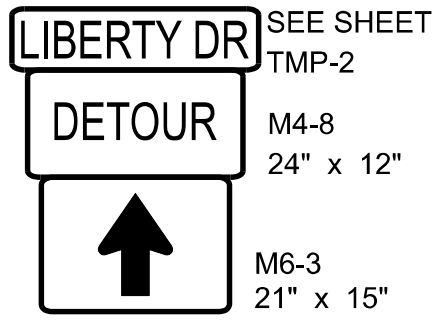
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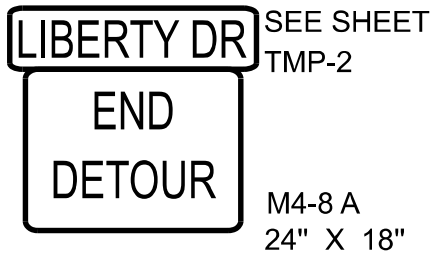
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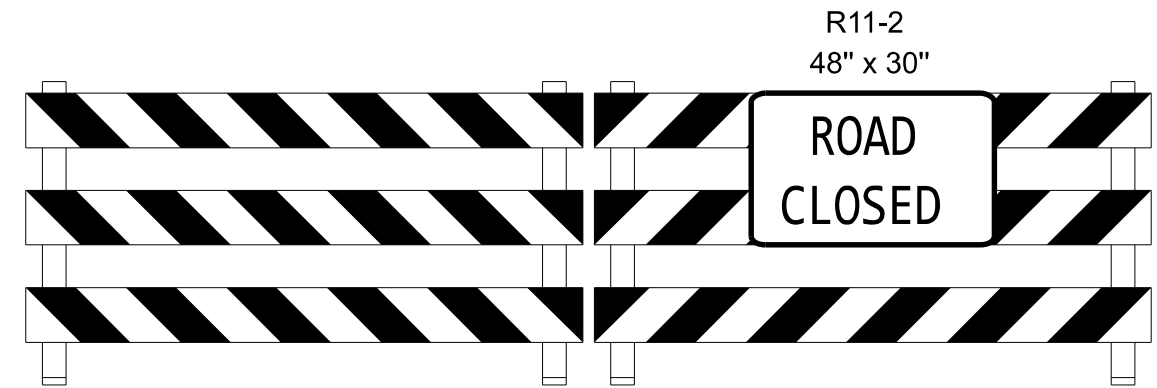
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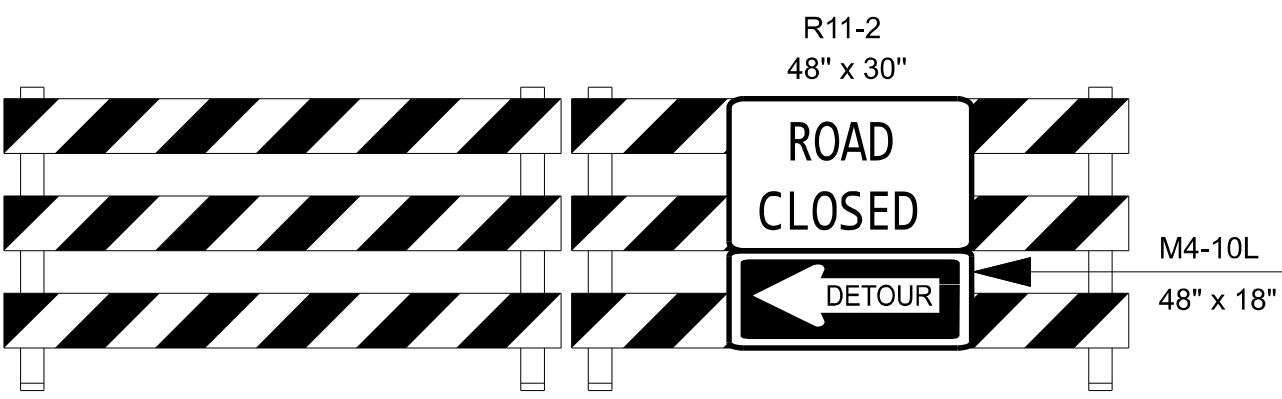


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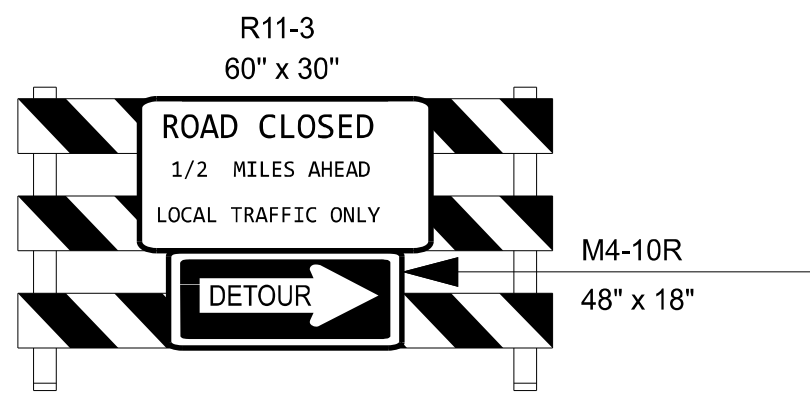
TYPE III BARRICADE(S)

K



TYPE III BARRICADE(S)

L



TYPE III BARRICADE

M

MESSAGE PRIOR TO CLOSURE:

| MESSAGE NO. 1        | MESSAGE NO. 2         |
|----------------------|-----------------------|
| LIBERTY DRIVE CLOSED | STARTING (DAY) (TIME) |

CHANGEABLE MESSAGE SIGN

MESSAGE DURING CLOSURE:

| MESSAGE NO. 1        | MESSAGE NO. 2        |
|----------------------|----------------------|
| LIBERTY DRIVE CLOSED | FOLLOW POSTED DETOUR |

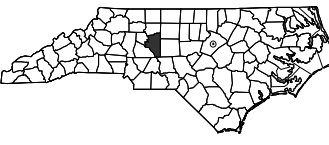
CHANGEABLE MESSAGE SIGN

N

HS-2009L

3TMI TMP-3

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIDSON COUNTY



WORK ZONE TRAFFIC CONTROL UNIT

WORK ZONE TRAFFIC  
CONTROL ENGINEER



4/8/2025

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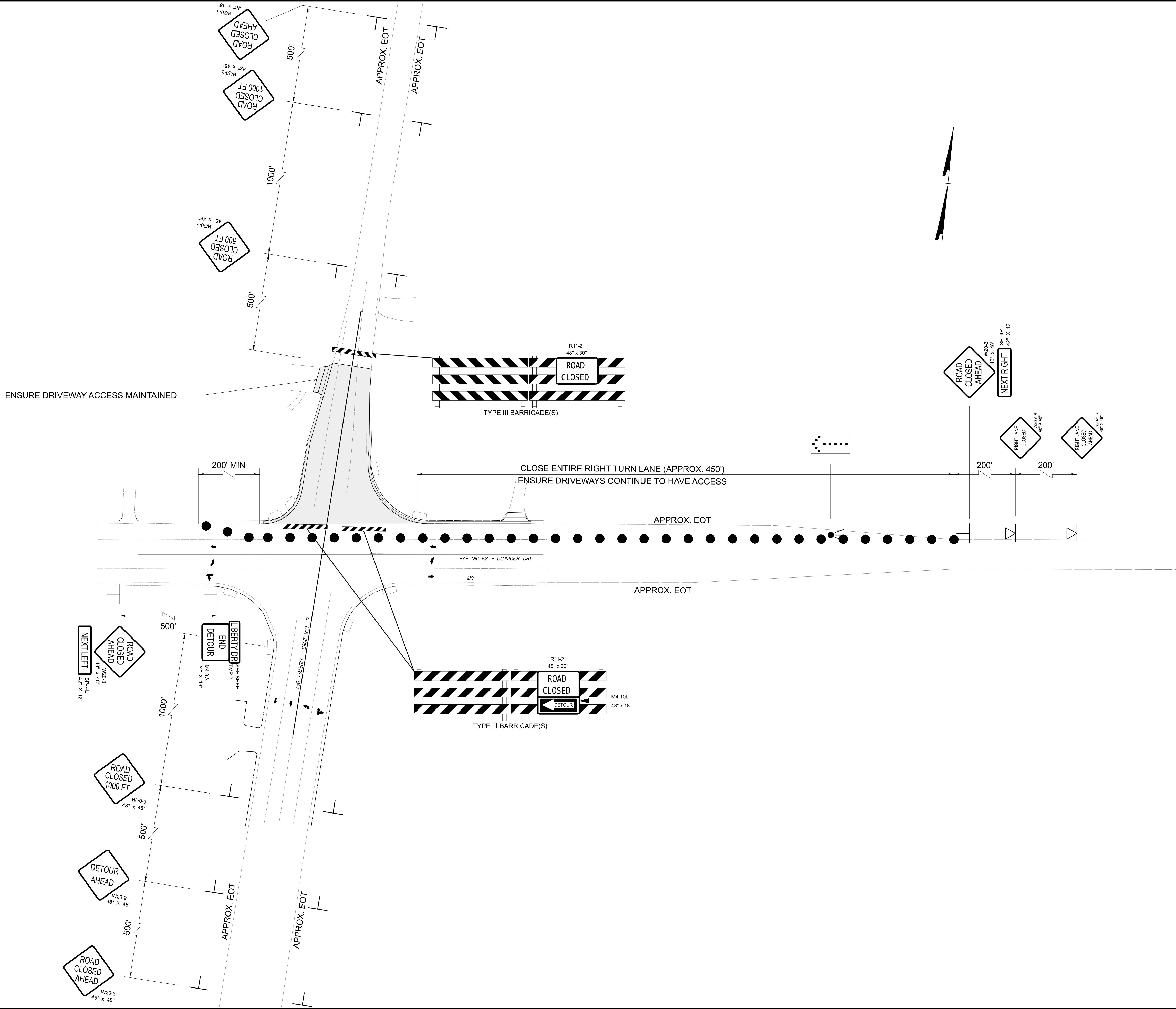
WORK ZONE TRAFFIC  
CONTROL PREPARED BY



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OFF SITE DETOUR

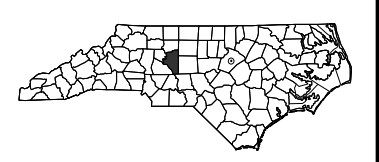
REVISIONS



HS-2009L

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NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIDSON COUNTY



WORK ZONE TRAFFIC CONTROL UNIT

WORK ZONE TRAFFIC  
CONTROL ENGINEER



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TEMPORARY TRAFFIC  
CONTROL PHASE 1

REVISIONS



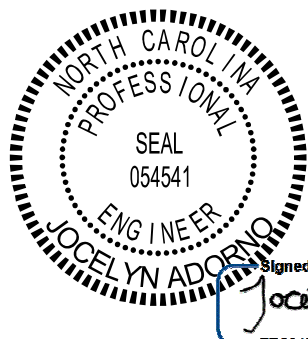
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
DAVIDSON COUNTY

TIP NO.  
HS-2009L

SHEET NO.  
PMP-1

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

SEAL  
  
4/9/2025  
*Jocelyn Adorno*  
JOCELYN ADORNO  
ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

INDEX

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

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   |
|----------|---|
| 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                      |
| 1205.08  | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES       |
| 1250.01  | RAISED PAVEMENT MARKERS - INSTALLATION SPACING      |
| 1251.01  | RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY   |

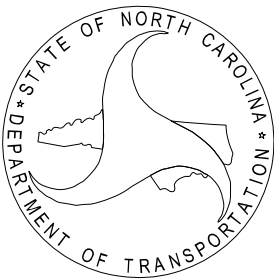
GENERAL NOTES

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

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- |                           |               |              |
|---------------------------|---------------|--------------|
| ROAD NAME                 | MARKING       | MARKER       |
| SR 2055 (LIBERTY DR.) -L- | THERMOPLASTIC | N/A          |
| NC 62 (CLONIGER DR.) -Y-  | THERMOPLASTIC | SNOWPLOWABLE |
- D) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- E) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- F) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

PLAN SUBMITTED TO: NCDOT

KEVIN R. HENDRICK DIVISON TRAFFIC ENGINEER



PLAN PREPARED BY: VIAS INFRASTRUCTURE

MATTHEW DOUGLAS, PE PROJECT MANAGER  
JOCELYN ADORNO, PE PROJECT DESIGN ENGINEER



PAVEMENT MARKING SCHEDULE

| SYMBOL                         | DESCRIPTION                     |
|--------------------------------|---------------------------------|
| THERMOPLASTIC (4", 90 MILS)    |                                 |
| T2                             | WHITE SOLID LANE LINE           |
| T3                             | 10 FT. WHITE SKIP               |
| T4                             | 3 FT. - 9 FT./SP WHITE MINISKIP |
| T13                            | YELLOW DOUBLE CENTER            |
| THERMOPLASTIC (24", 90 MILS)   |                                 |
| T61                            | WHITE STOPBAR                   |
| THERMOPLASTIC SYMBOL (90 MILS) |                                 |
| T70                            | LEFT TURN ARROW                 |
| T72                            | STRAIGHT ARROW                  |
| T74                            | COMBO RIGHT/STRAIGHT ARROW      |
| SNOWPLOWABLE PAVEMENT MARKERS  |                                 |
| MF                             | CRYSTAL & RED                   |

-L- STA. 18+45±  
TIE INTO EXIST. MARKINGS

-L- STA. 19+10±

-L- STA. 19+50±

-L- STA. 19+60±

-Y- STA. 11+30±  
TIE INTO EXIST. MARKINGS

-Y- STA. 11+25±

REMOVE AND REPLACE T23 FOR ENTIRE TURN LANE  
(APPROX. 140')

-Y- STA. 11+25±

-Y- STA. 11+60±

-Y- STA. 12+00±

-Y- STA. 12+60±

-Y- STA. 13+40±

-Y- STA. 13+50±  
TIE INTO EXIST. MARKINGS

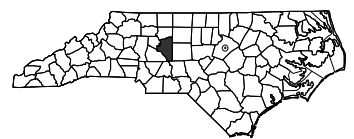


EXISTING SIGNAL

HS-2009L

3SDI PMP-2

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIDSON COUNTY



SIGNING & DELINEATION UNIT

SIGNING AND DELINEATION  
ENGINEER



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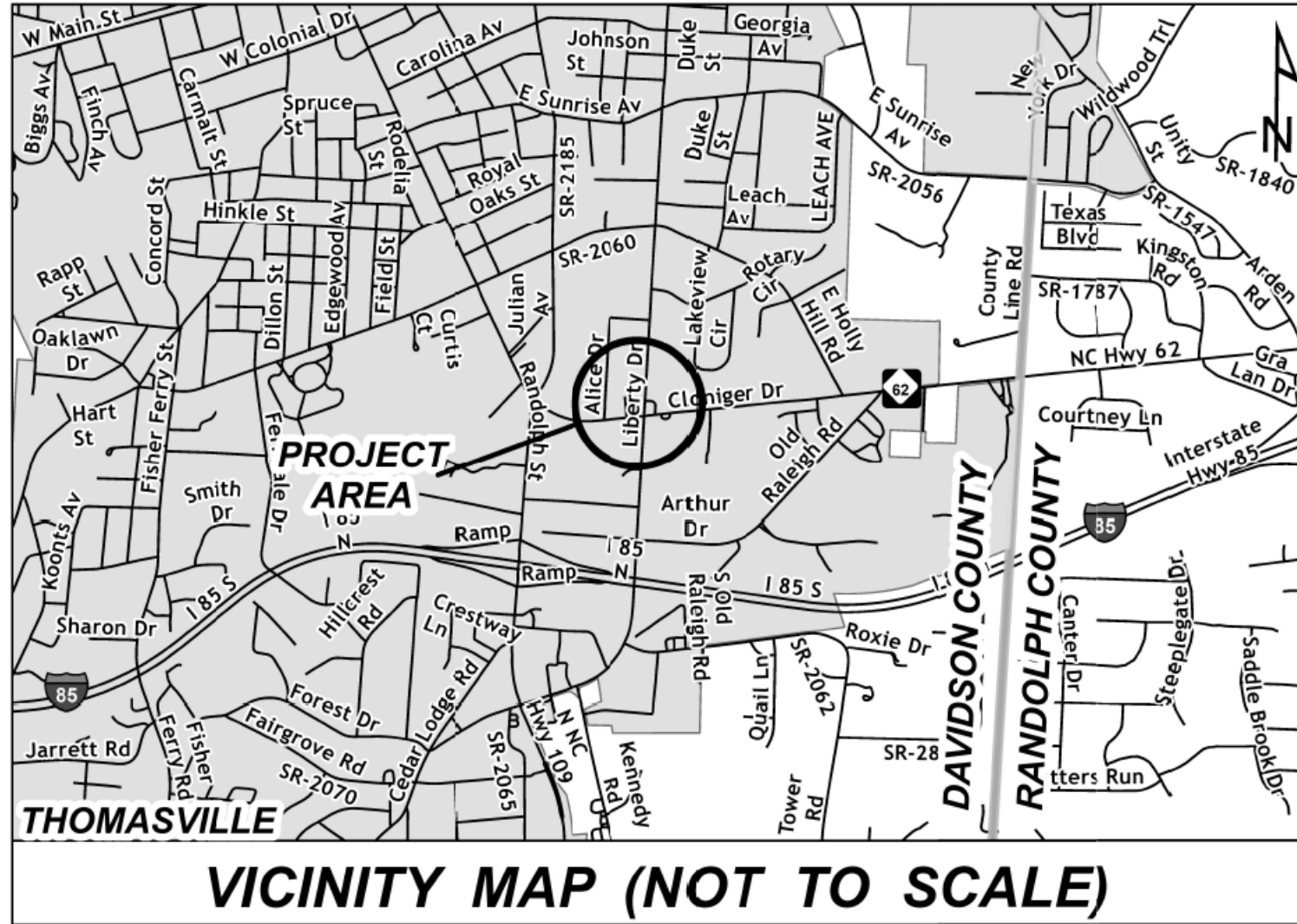
PAVEMENT  
MARKING  
DETAIL

REVISIONS



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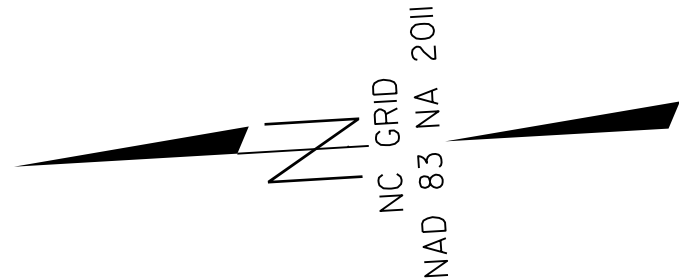
TIP PROJECT: HS-2009L



VICINITY MAP (NOT TO SCALE)

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL  
DAVIDSON COUNTY

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | HS-2009L                    | EC-1        |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION |              |
| 49321.1.13      | 4932121                     | PE          |              |
| 49321.2.18      | 4932121                     | ROW         |              |
| 49321.2.19      | 4932121                     | UTL         |              |
| 49321.3.13      | 4932121                     | CON         |              |

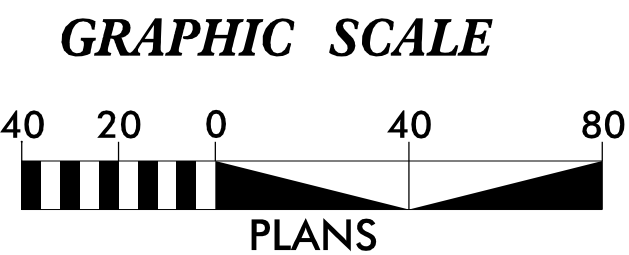


BEGIN CONSTRUCTION HS-2009L  
-Y- POT Sta. 11+24.00

BEGIN PROJECT HS-2009L  
-L- POT Sta. 18+45.00

END CONSTRUCTION HS-2009L  
-Y- POT Sta. 13+50.00

END PROJECT HS-2009L  
-L- POT Sta. 20+00.00=  
-Y- POT Sta. 13+00.00



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY  
WITH THE REGULATIONS SET FORTH BY THE NCG 010000  
GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH  
CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION  
OF ENERGY, MINERAL, AND LAND RESOURCES.

Prepared in the Office of:  
**HIGHWAY DIVISION 9**  
**DIVISION DESIGN/CONSTRUCT UNIT**  
375 SILAS CREEK PARKWAY  
WINSTON-SALEM, NC 27127  
**2024 STANDARD SPECIFICATIONS**

Designed by:  
**Jeremy L. Keaton, PE, PLS** 3497  
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "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.

PROJECT REFERENCE NO.  
HS-2009L

SHEET NO.  
EC-02

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

| Std. #  | Description                      | Symbol | Std. #  | Description   | Symbol |
|---------|----------------------------------|--------|---------|---|--------|
| 1605.01 | Temporary Silt Fence             |        | 1633.01 | Temporary Rock Silt Check Type A  |        |
| 1606.01 | Special Sediment Control Fence   |        | 1633.02 | Temporary Rock Silt Check Type B  |        |
| 1622.01 | Temporary Berms and Slope Drains |        | 1633.03 | Temporary Rock Silt Check Type A with<br>Excelsior Matting and Flocculant |        |
| 1630.02 | Silt Basin Type B                |        | 1634.01 | Temporary Rock Sediment Dam Type A  |        |
| 1630.03 | Temporary Silt Ditch             |        | 1634.02 | Temporary Rock Sediment Dam Type B  |        |
| 1630.04 | Stilling Basin                   |        | 1635.01 | Rock Pipe Inlet Sediment Trap Type A                                      |        |
| 1630.05 | Temporary Diversion              |        | 1635.02 | Rock Pipe Inlet Sediment Trap Type B                                      |        |
| 1630.06 | Special Stilling Basin           |        | 1636.01 | Excelsior Wattle Check  |        |
| 1630.07 | Skimmer Basin                    |        | 1636.01 | Excelsior Wattle Check with Flocculant                                    |        |
| 1630.08 | Tiered Skimmer Basin             |        | 1636.01 | Coir Fiber Wattle Check   |        |
| 1630.09 | Earthen Dam with Skimmer         |        | 1636.01 | Coir Fiber Wattle Check with Flocculant                                   |        |
|         | Infiltration Basin               |        | 1636.02 | Silt Fence Excelsior Wattle Break   |        |
|         | Rock Inlet Sediment Trap:        |        |         | Silt Fence Coir Fiber Wattle Break  |        |
| 1632.01 | Type A                           |        | 1636.03 | Excelsior Wattle Barrier  |        |
| 1632.02 | Type B                           |        | 1636.03 | Coir Fiber Wattle Barrier   |        |
| 1632.03 | Type C                           |        |         |   |        |



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY  
MATTING FOR EROSION CONTROL

| CONST<br>SHEET NO.  | LINE | FROM<br>STATION | TO<br>STATION | SIDE | ESTIMATE (SY) |
|---|------|-----------------|---------------|------|---------------|
| MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER |      |                 |               |      | 150           |
|   |      |                 |               |      |               |
|   |      |                 |               |      |               |

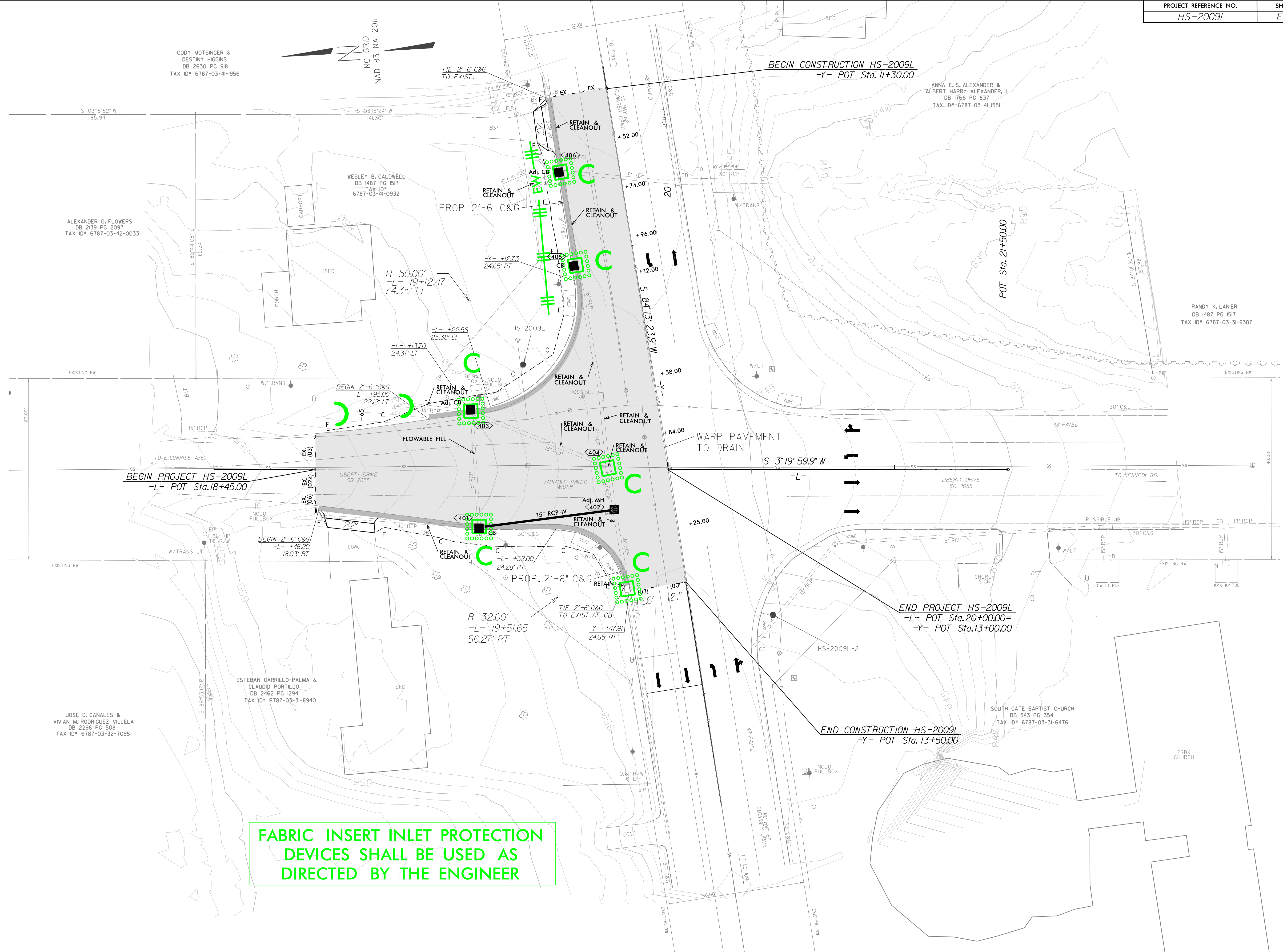
SOIL STABILIZATION TIMEFRAMES

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

REVISIONS

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8/17/99



FABRIC INSERT INLET PROTECTION DEVICES SHALL BE USED AS DIRECTED BY THE ENGINEER



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN  
DAVIDSON COUNTY

LOCATION: NC 62 (CLONIGER DRIVE)  
AT SR 2055 (LIBERTY DRIVE)

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  |
|----------|--|
| 902.10   | FOUNDATION FOR GROUND MOUNTED SIGNS                          |
| 903.10   | GROUND MOUNTED SIGN SUPPORTS                                 |
| 904.10   | ORIENTATION OF GROUND MOUNTED SIGNS                          |
| 904.50   | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |

SUMMARY OF QUANTITIES

| ITEM NO.     |           | ITEM DESCRIPTION                    | QUANTITY | UNIT |
|--------------|-----------|-------------------------------------|----------|------|
| DESC. NO.    | SECT. NO. |                                     |          |      |
| 4116100000-N | 904       | SIGN ERECTION, RELOCATE SIGN TYPE E | 2        | EA   |
| 4155000000-N | 907       | DISPOSAL OF SIGN SYSTEM, U-CHANNEL  | 1        | EA   |

GENERAL NOTES

CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.

IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.

WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER

ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.

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.

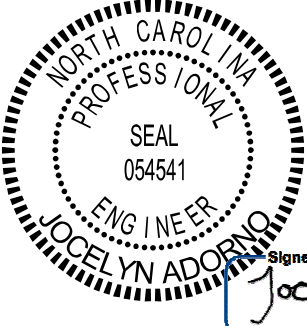
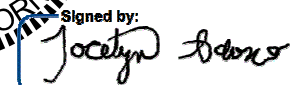
INDEX

| SHEET NO. | DESCRIPTION          |
|-----------|----------------------|
| SIGN-1    | TITLE SHEET          |
| SIGN-2    | SIGNING DETAIL SHEET |

TIP NO.  
HS-2009L

SHEET NO.  
SIGN-1

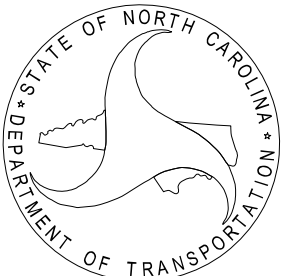
APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

SEAL  
  
4/9/2025  
Signed by:   
JD9817718661486

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

PLAN SUBMITTED TO: N.C.D.O.T. SIGNING AND DELINEATION UNIT

KEVIN R. HENDRICK    SIGNING & DELINEATION PROJECT DESIGN ENGINEER



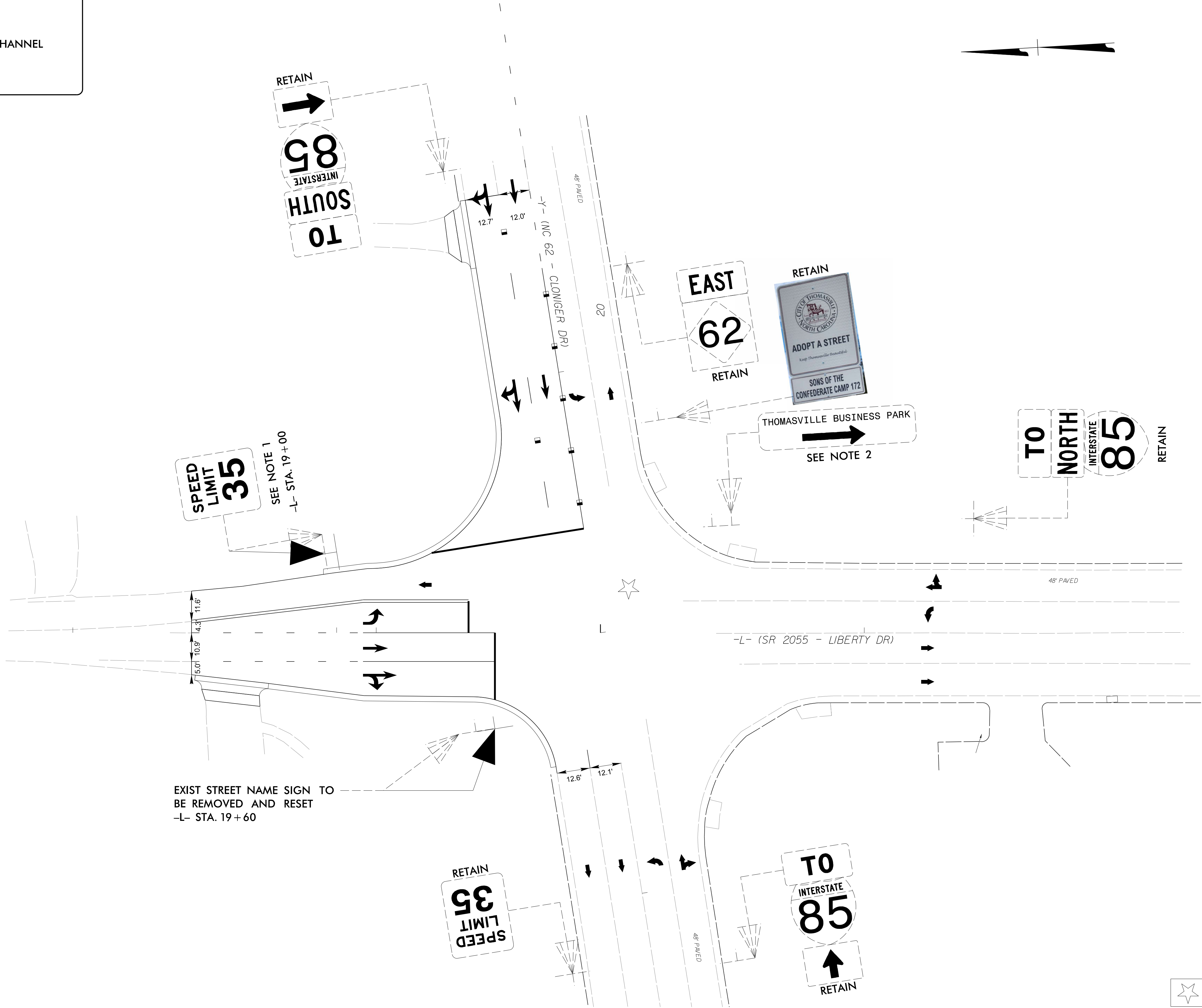
PLAN PREPARED BY: VIAS INFRASTRUCTURE

MATTHEW DOUGLAS, PE    PROJECT MANAGER  
JOCELYN ADORNO, PE    PROJECT DESIGN ENGINEER



PROJECT NOTES

- 1 REMOVE AND RESET EXIST SIGN
- 2 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

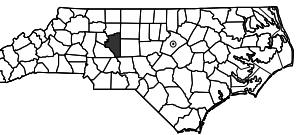


★ EXISTING SIGNAL

HS-2009L

3SDI SIGN-2

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIDSON COUNTY



SIGNING & DELINEATION UNIT

SIGNING AND DELINEATION  
ENGINEER



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

SIGNING AND DELINEATION  
PREPARED BY



220 HORIZON DRIVE - SUITE 117  
RALEIGH, NC 27615  
PHONE (727) 214-7698  
LICENCE NO P-2673  
WWW.VIASINFRASTRUCTURE.COM

SIGNING DETAIL

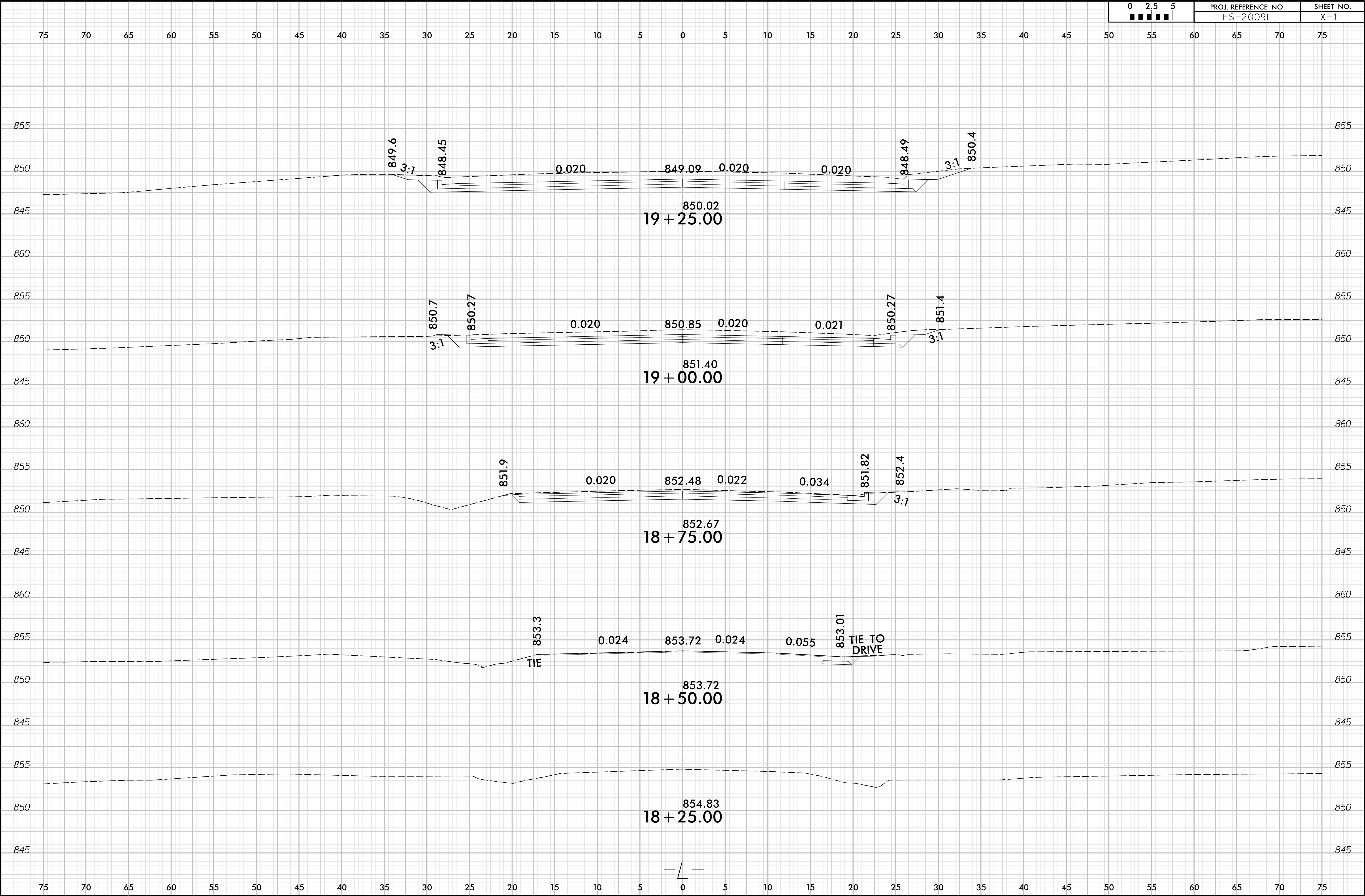
REVISIONS

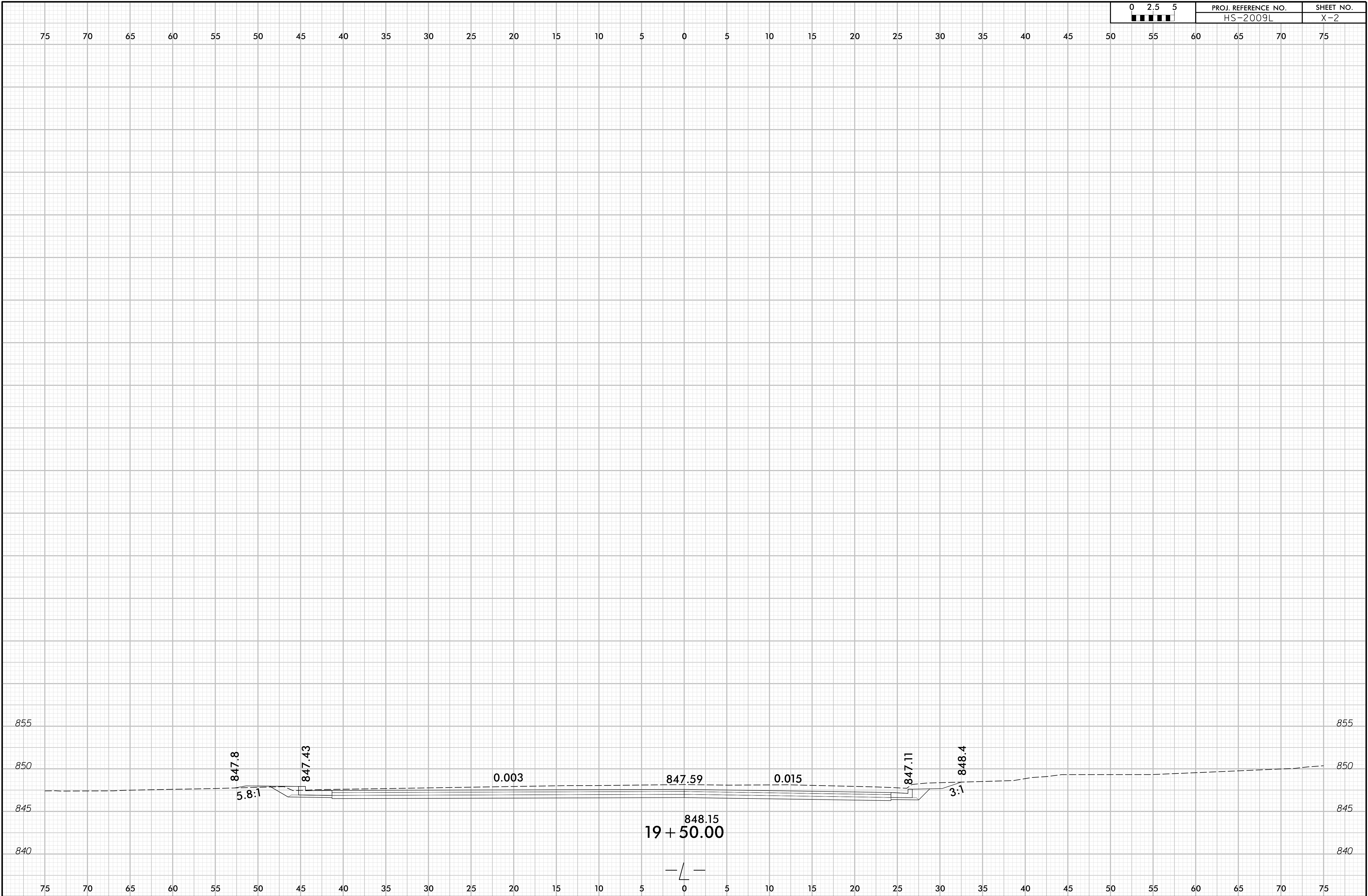


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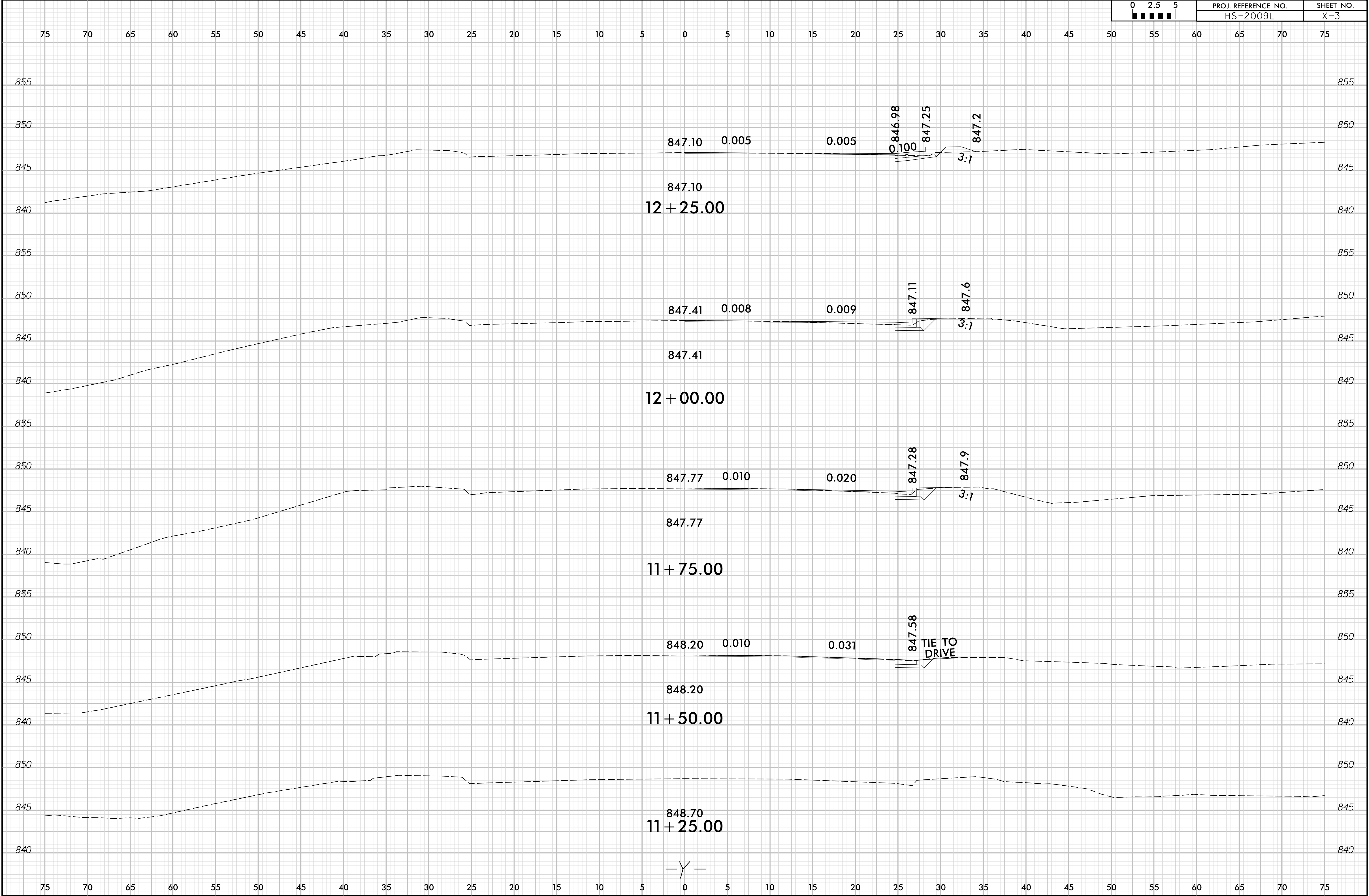






6/23/16

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