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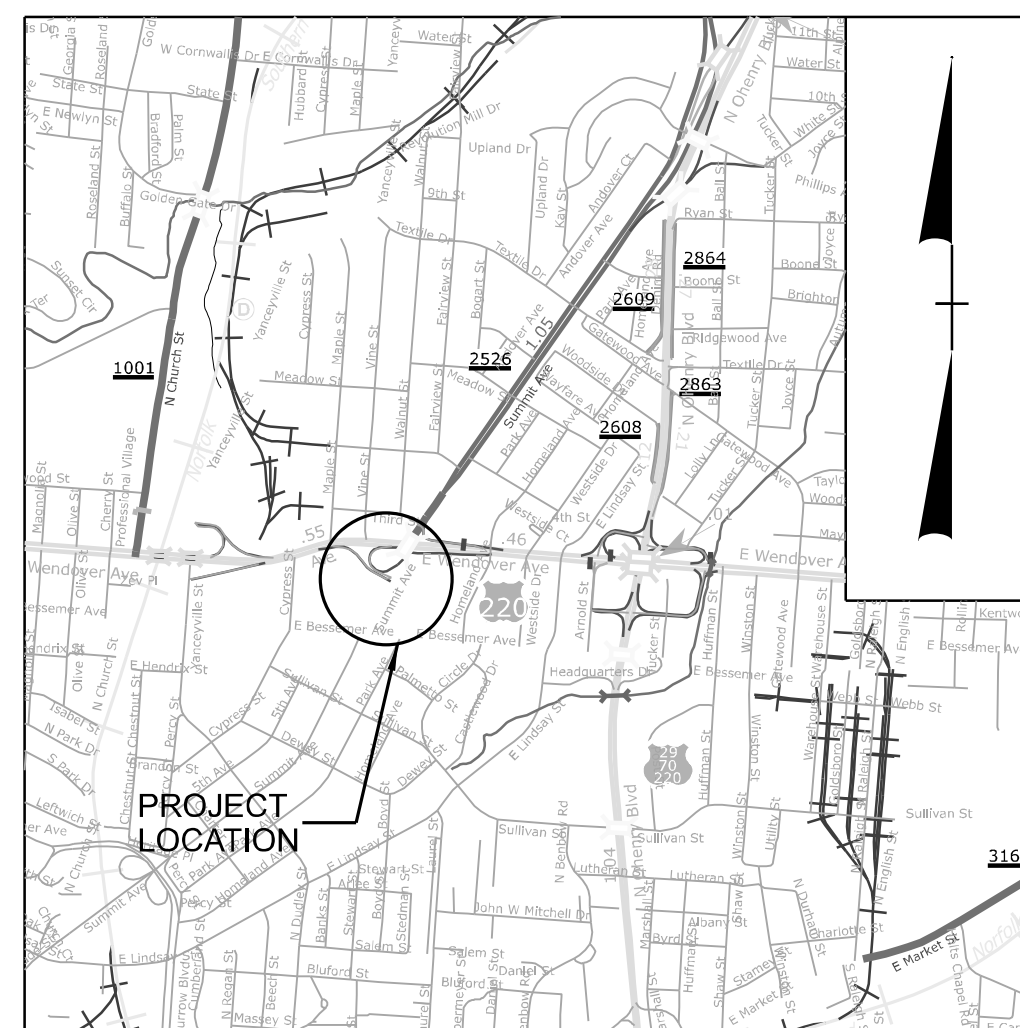
**This file or an individual page  
shall not be considered a certified document.**

09/08/09

TIP PROJECT: W-5807A

CONTRACT: DG00673

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

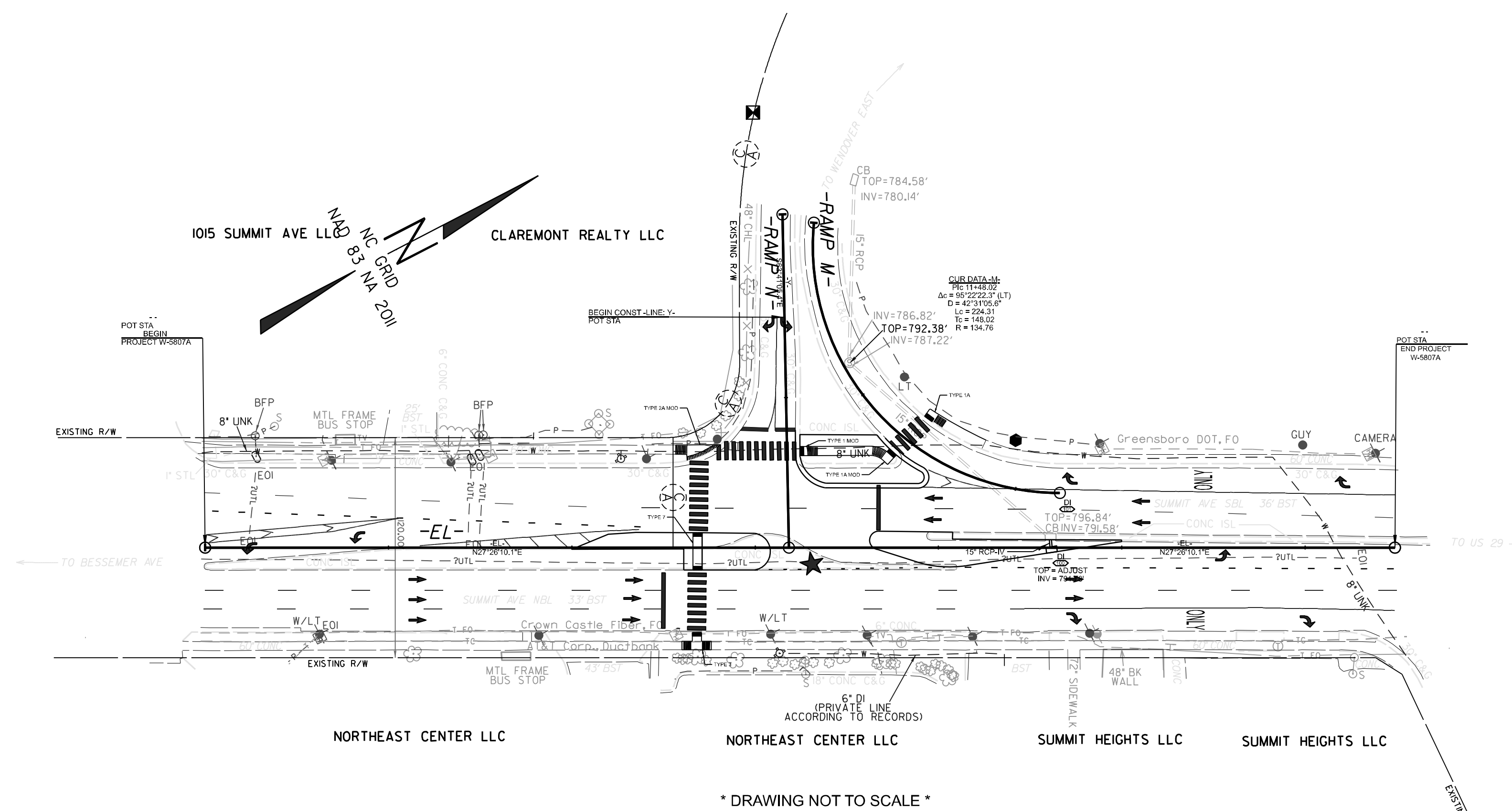
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GUILFORD COUNTY**

LOCATION: *SR-2526 (SUMMIT AVE.) AT  
US 70 (WENDOVER AVE.) EAST  
EXIT AND ON RAMP*

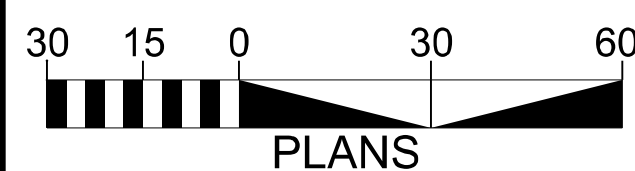
TYPE OF WORK: *SIDEWALK, CURB & GUTTER, SIGNAL,  
AND PAVING*

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5807A	11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
48952.1.2	2526004	PE	
48952.2.2	2526004	R/W	
48952.3.2	2526004	CONSTRUCTION	



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2021 = 19500  
ADT 2043 = 29000  
K = N/A %  
D = N/A %  
T = N/A % \*  
V = 40 MPH  
\* TTST =N/A DUAL N/A  
FUNC CLASS =  
MINOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY SAFETY PROJECT W-5807A = 0.123 MILES  
TOTAL LENGTH SAFETY PROJECT W-5807A = 0.123 MILES

Prepared in the Office of:  
**DIVISION 7 DDC**

1584 Yanceyville St., Greensboro NC, 27405

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
N/A

LETTING DATE:  
DECEMBER 18, 2025

TRUNG NGUYEN, PE  
PROJECT ENGINEER

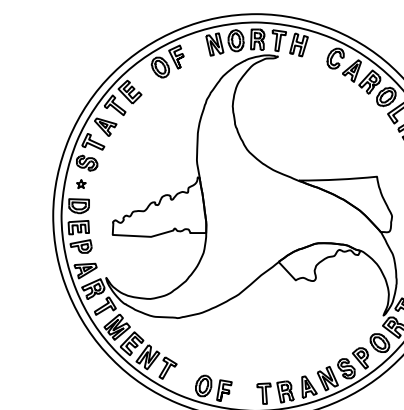
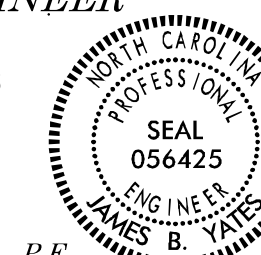
JAMES B. YATES, PE  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

N/A

SIGNATURE: \_\_\_\_\_ P.E.  
ROADWAY DESIGN ENGINEER

DocuSigned by:  
James B. Yates  
1E16507EA7A04AE...  
SIGNATURE: \_\_\_\_\_ P.E.





# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS 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	-----	X
Existing Concrete Monument (ECM)	-----	⊠
Parcel / Sequence Number	-----	(23)
Existing Fence Line	-x-x-x-	
Proposed Woven Wire Fence	-----	○
Proposed Chain Link Fence	-----	⊠
Proposed Barbed Wire Fence	-----	◇
Existing Wetland Boundary	-----	MLB
Proposed Wetland Boundary	-----	MLB
Existing Endangered Animal Boundary	-----	EAB
Existing Endangered Plant Boundary	-----	EPB
Existing Historic Property Boundary	-----	HPB
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	-----	JS
Buffer Zone 1	-----	BZ 1
Buffer Zone 2	-----	BZ 2
Flow Arrow	-----	←
Disappearing Stream	-----	→
Spring	-----	⊙
Wetland	-----	⊠
Proposed Lateral, Tail, Head Ditch	-----	⊠
False Sump	-----	⊠

### RAILROADS:

Standard Gauge	-----	CSX TRANSPORTATION
RR Signal Milepost	-----	MILEPOST 35
Switch	-----	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	-----	E
Proposed Temporary Construction Easement	-----	E
Proposed Temporary Drainage Easement	-----	TDE
Proposed Permanent Drainage Easement	-----	PDE
Proposed Permanent Drainage/Utility Easement	-----	DUE
Proposed Permanent Utility Easement	-----	PUE
Proposed Temporary Utility Easement	-----	TUE
Proposed Aerial Utility Easement	-----	AUE

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----	-----
Existing Curb	-----	-----
Proposed Slope Stakes Cut	-----	C
Proposed Slope Stakes Fill	-----	F
Proposed Curb Ramp	-----	CR
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	-----	Vineyard

### EXISTING STRUCTURES:

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

### 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)*	-----	P
U/G Power Line (SUE - LOS C)*	-----	P
U/G Power Line (SUE - LOS D)*	-----	P

### 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)*	-----	T
U/G Telephone Cable (SUE - LOS C)*	-----	T
U/G Telephone Cable (SUE - LOS D)*	-----	T
U/G Telephone Conduit (SUE - LOS B)*	-----	TC
U/G Telephone Conduit (SUE - LOS C)*	-----	TC
U/G Telephone Conduit (SUE - LOS D)*	-----	TC
U/G Fiber Optics Cable (SUE - LOS B)*	-----	T FO
U/G Fiber Optics Cable (SUE - LOS C)*	-----	T FO
U/G Fiber Optics Cable (SUE - LOS D)*	-----	T FO

### 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)*	-----	W
U/G Water Line (SUE - LOS C)*	-----	W
U/G Water Line (SUE - LOS D)*	-----	W
Above Ground Water Line	-----	A/G Water

### 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)*	-----	TV
U/G TV Cable (SUE - LOS C)*	-----	TV
U/G TV Cable (SUE - LOS D)*	-----	TV
U/G Fiber Optic Cable (SUE - LOS B)*	-----	TV FO
U/G Fiber Optic Cable (SUE - LOS C)*	-----	TV FO
U/G Fiber Optic Cable (SUE - LOS D)*	-----	TV FO

### GAS:

Gas Valve	-----	⊠
Gas Meter	-----	⊠
U/G Gas Line Test Hole (SUE - LOS A)*	-----	⊙
U/G Gas Line (SUE - LOS B)*	-----	G
U/G Gas Line (SUE - LOS C)*	-----	G
U/G Gas Line (SUE - LOS D)*	-----	G
Above Ground Gas Line	-----	A/G Gas

### SANITARY SEWER:

Sanitary Sewer Manhole	-----	⊙
Sanitary Sewer Cleanout	-----	⊙
U/G Sanitary Sewer Line	-----	SS
Above Ground Sanitary Sewer	-----	A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	-----	⊙
SS Force Main Line (SUE - LOS B)*	-----	FSS
SS Force Main Line (SUE - LOS C)*	-----	FSS
SS Force Main Line (SUE - LOS D)*	-----	FSS

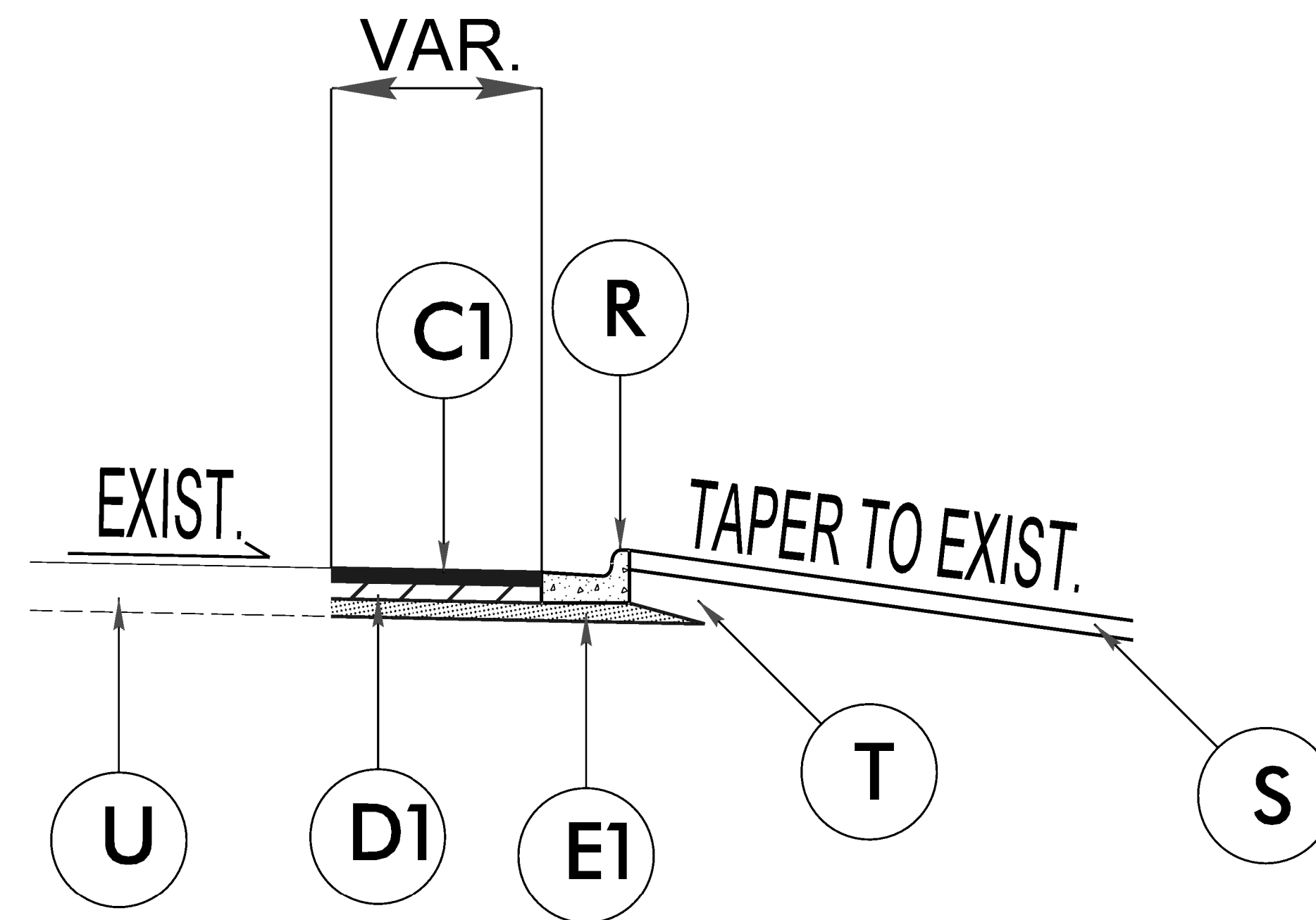
### MISCELLANEOUS:

Utility Pole	-----	⊙
Utility Pole with Base	-----	⊠
Utility Located Object	-----	⊙
Utility Traffic Signal Box	-----	⊠
Utility Unknown U/G Line (SUE - LOS B)*	-----	UTL
U/G Tank; Water, Gas, Oil	-----	⊠
Underground Storage Tank, Approx. Loc.	-----	UST
A/G Tank; Water, Gas, Oil	-----	⊠
Geoenvironmental Boring	-----	⊙
Abandoned According to Utility Records	-----	AATUR
End of Information	-----	E.O.I.

### PAVEMENT SCHEDULE

C1	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.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R	PROPOSED 2'-6" C&G
S	4" CONCRETE SIDEWALK (CONCRETE ISLAND)
T	EARTH MATERIAL
U	EXISTING PAVEMENT

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

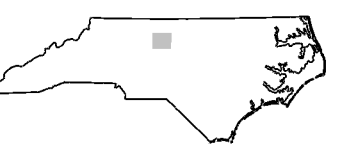


### NEW C&G DETAIL

W-5807A

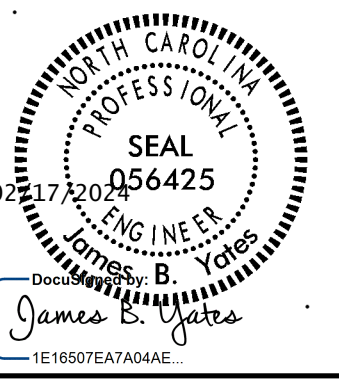
TYP. 2A-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GUILFORD COUNTY



DIVISION 7 DDG UNIT

ROADWAY DESIGN ENGINEER



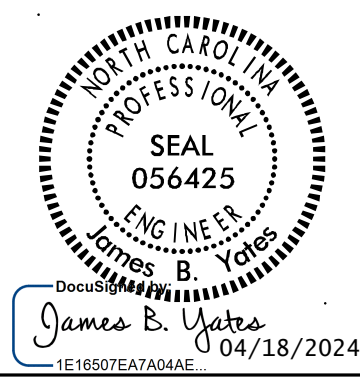
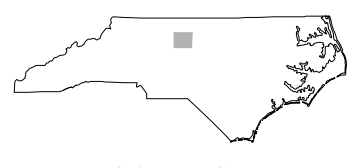
PREPARED BY



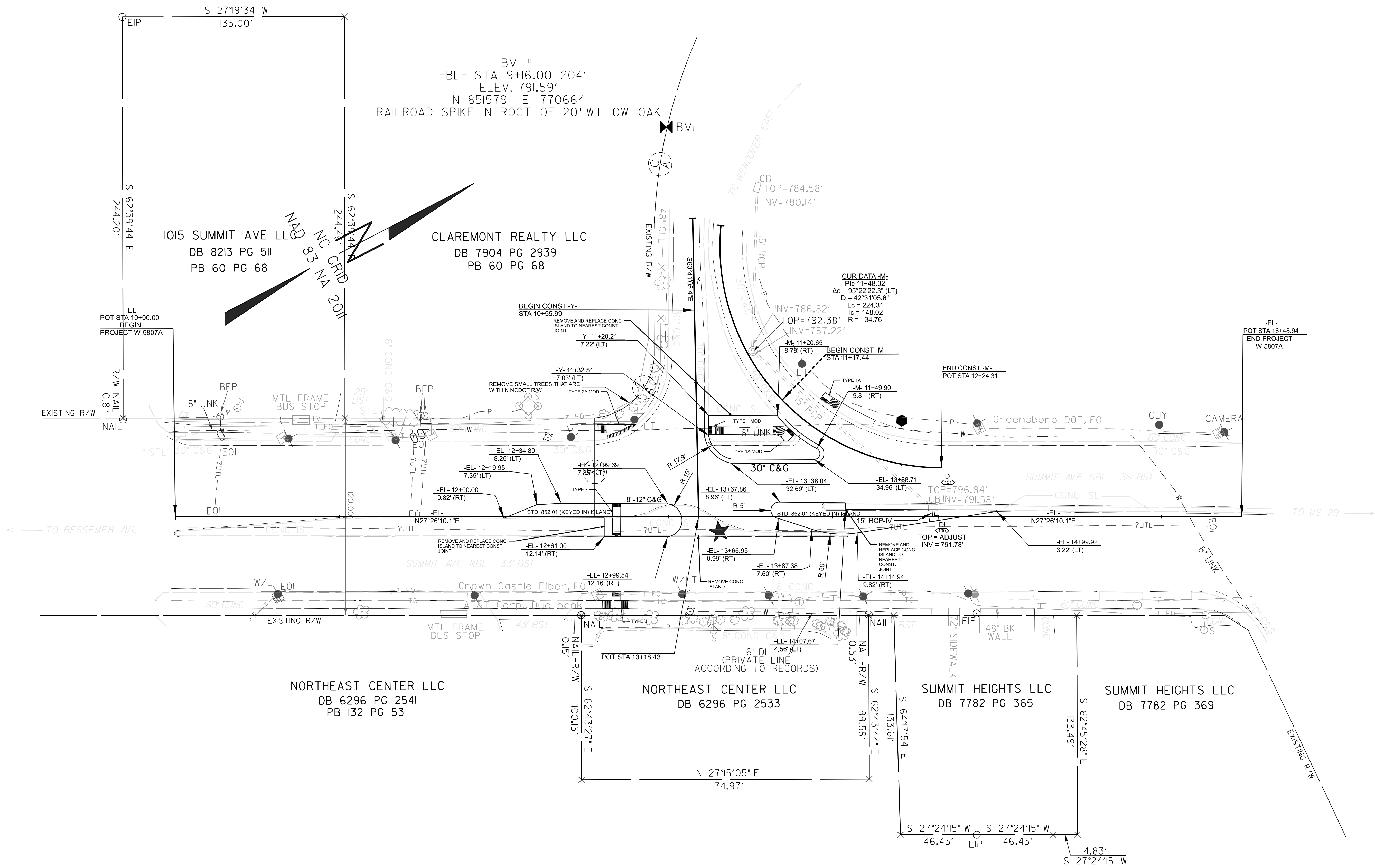
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS





REVISIONS



S 27°19'34" W  
135.00'

S 62°39'44" E  
244.20'

S 62°39'44" E  
244.20'

S 62°39'44" E  
244.20'

NAD 83  
NC GRID  
NA 2011

1015 SUMMIT AVE LLC  
DB 8213 PG 511  
PB 60 PG 68

BM #1  
-BL- STA 9+16.00 204' L  
ELEV. 791.59'  
N 85°57'9" E 1770664  
RAILROAD SPIKE IN ROOT OF 20" WILLOW OAK

CLAREMONT REALTY LLC  
DB 7904 PG 2939  
PB 60 PG 68

NORTHEAST CENTER LLC  
DB 6296 PG 2541  
PB 132 PG 53

NORTHEAST CENTER LLC  
DB 6296 PG 2533

SUMMIT HEIGHTS LLC  
DB 7782 PG 365

SUMMIT HEIGHTS LLC  
DB 7782 PG 369

CUR DATA-M-  
P1c 11+48.02  
Δc = 95°22'22.3" (LT)  
D = 42°31'05.6"  
Lc = 224.31  
Tc = 148.02  
R = 134.76

BEGIN CONST -Y-  
STA 10+55.99  
REMOVE AND REPLACE CONC.  
ISLAND TO NEAREST CONST.  
JOINT

BEGIN CONST -M-  
STA 11+17.44  
TYPE 1A  
M-11+20.65  
8.78' (RT)

END CONST -M-  
POT STA 12+24.31

-EL- 12+34.89  
8.25' (LT)

-EL- 12+19.95  
7.35' (LT)

-EL- 12+00.00  
0.82' (RT)

-EL- 13+38.04  
32.69' (LT)

-EL- 13+67.86  
8.96' (LT)

-EL- 13+88.71  
34.96' (LT)

TOP = 796.84'  
CB INV = 791.58'

-EL- 14+99.92  
3.22' (LT)

TOP = ADJUST  
INV = 791.78'

-EL- 12+99.54  
12.16' (RT)

-EL- 13+66.95  
0.99' (RT)

-EL- 13+87.38  
7.60' (RT)

-EL- 14+14.94  
9.82' (RT)

N 27°15'05" E  
174.97'



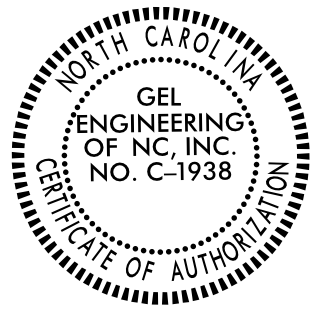
S 27°24'15" W 46.45'

S 27°24'15" W 46.45'

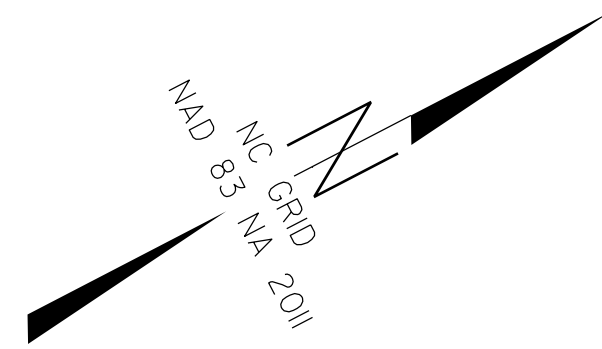
S 27°24'15" W 14.83'

# SURVEY CONTROL SHEET

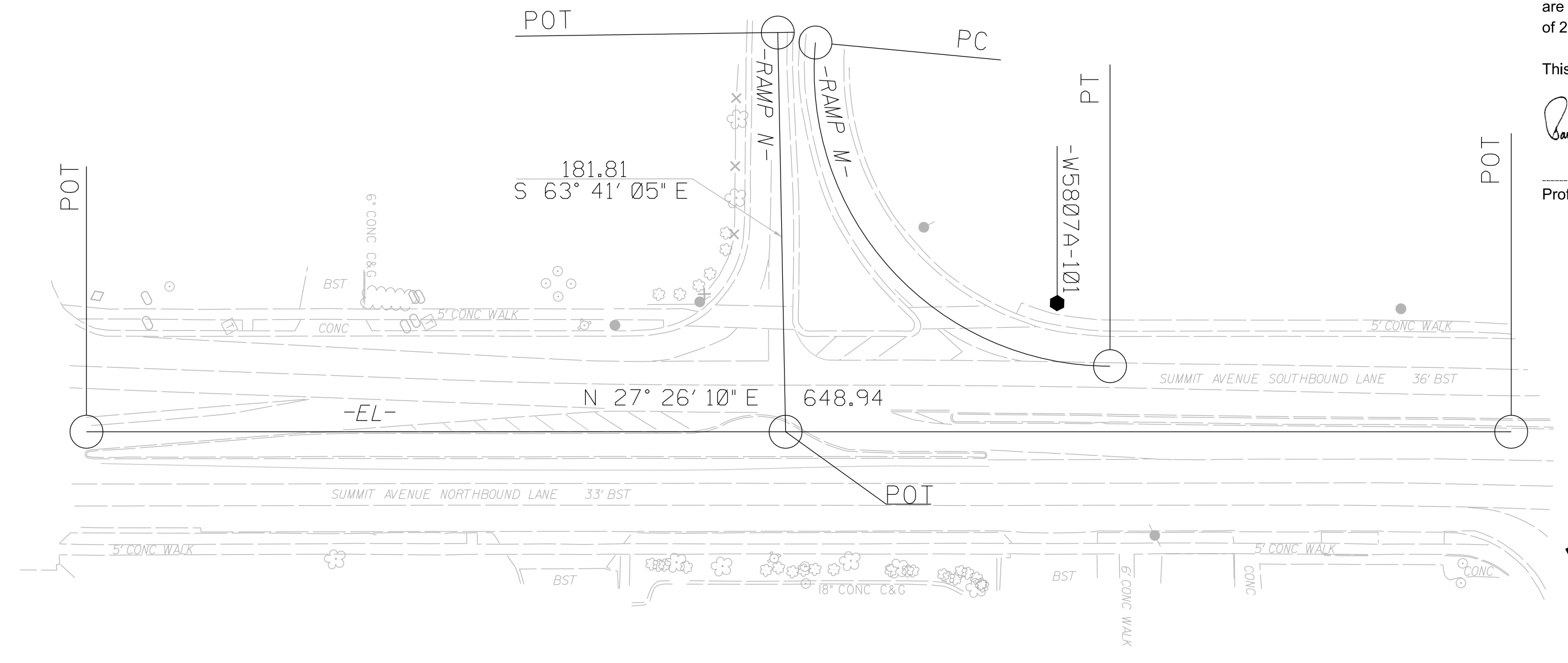
## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. W5807A	SHEET NO. RW2C-1
Location and Surveys	
 111-C CREEKRIDGE ROAD GREENSBORO, NC 27406	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

W5807A-102



BM #1  
 -BL- STA 9+16.00 204' L  
 ELEV. 791.59'  
 N 85°57'9" E 1770664  
 RAILROAD SPIKE IN ROOT OF 20' WILLOW OAK



I, Parks H. Icenhour, PLS, certify that the Project Control was verified 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: 6/07/2021  
 Datum/Epoch: NAD83/ NA 2011  
 Published/Fixed-control use: NA  
 Localized around: U5851-3  
 Northing: 857007.582  
 Easting: 1769210.626  
 Combined grid factor: 0.99995003  
 Geoid model: 12BNC  
 Units: US SURVEY FEET

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 6/08/2021 to 6/10/2021, 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 9th day of JUNE, 2023.

Digitally signed by  
 Parks Icenhour  
 Date: 2023.06.09  
 17:06:05 -04'00'  
 Professional Land Surveyor L-3996


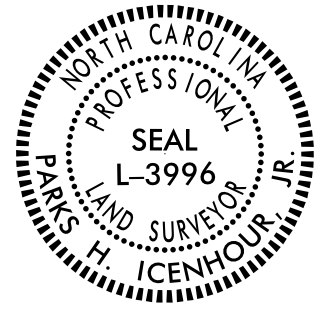
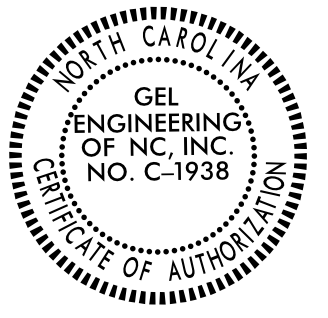
SEE SHEET RW2C-3  
 FOR FURTHER  
 ALIGNMENT DETAILS

### NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. W5807A	SHEET NO. RW2C-2
Location and Surveys	
 111-C CREEKRIDGE ROAD GREENSBORO, NC 27406	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
103	BL-103		851123.5300	1770750.3940	793.07
101	W5807A-101		851623.5130	1770888.6870	796.82
104	BL-104		851781.0580	1771098.3390	797.72

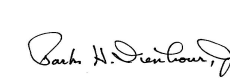
.....  
 BM1            ELEVATION = 791.59  
 N 851579       E 1770664  
 RAILROAD SPIKE IN ROOT OF 20' WILLOW OAK  
 .....

I, Parks H. Icenhour, PLS, certify that the Project Control was verified 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: 6/07/2021  
 Datum/Epoch: NAD83/ NA 2011  
 Published/Fixed-control use: NA  
 Localized around: U5851-3  
 Northing: 857007.582  
 Easting: 1769210.626  
 Combined grid factor: 0.99995003  
 Geoid model: 12BNC  
 Units: US SURVEY FEET

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 6/08/2021 to 6/10/2021, 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 21 day of JUNE, 2021.

    2021.06.21  
 17:30:36 -04'00'  
 Professional Land Surveyor L-3996

REVISIONS

**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

# SURVEY CONTROL SHEET

**W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION**

PROJECT REFERENCE NO. W5807A	SHEET NO. RW2C-3
Location and Surveys	
<b>GEL SOLUTIONS</b> 111-C CREEKRIDGE ROAD GREENSBORO, NC 27406	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL				
POINT	N	E	BEARING	DIST
POT	851204.135	1770736.957		
LINE			N 27°26'10.1" E	648.94
POT	851780.085	1771035.962		

RAMP									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	851580.493	1770732.643							
CURVE			N 75°07'21.7" E	199.30	95°22'22.3"(L.T)	42°31'05.6"	224.31	148.02	134.76
PT	851631.663	1770925.259							

RAMPN				
POINT	N	E	BEARING	DIST
POT	851567.350	1770720.718		
LINE			S 63°41'05.4" E	181.81
POT	851486.752	1770883.685		

I, Parks H. Icenhour, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

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This 21 day of JUNE, 2021.  
 2021.06.21  
  
 17:33:07  
 -04'00"  
 Professional Land Surveyor L-3996

REVISIONS

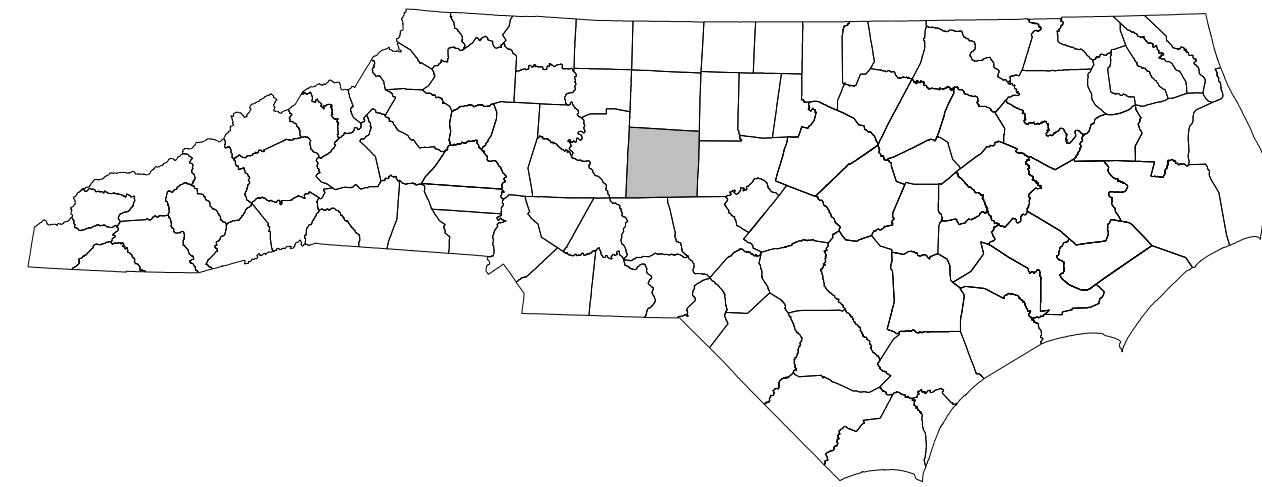
**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

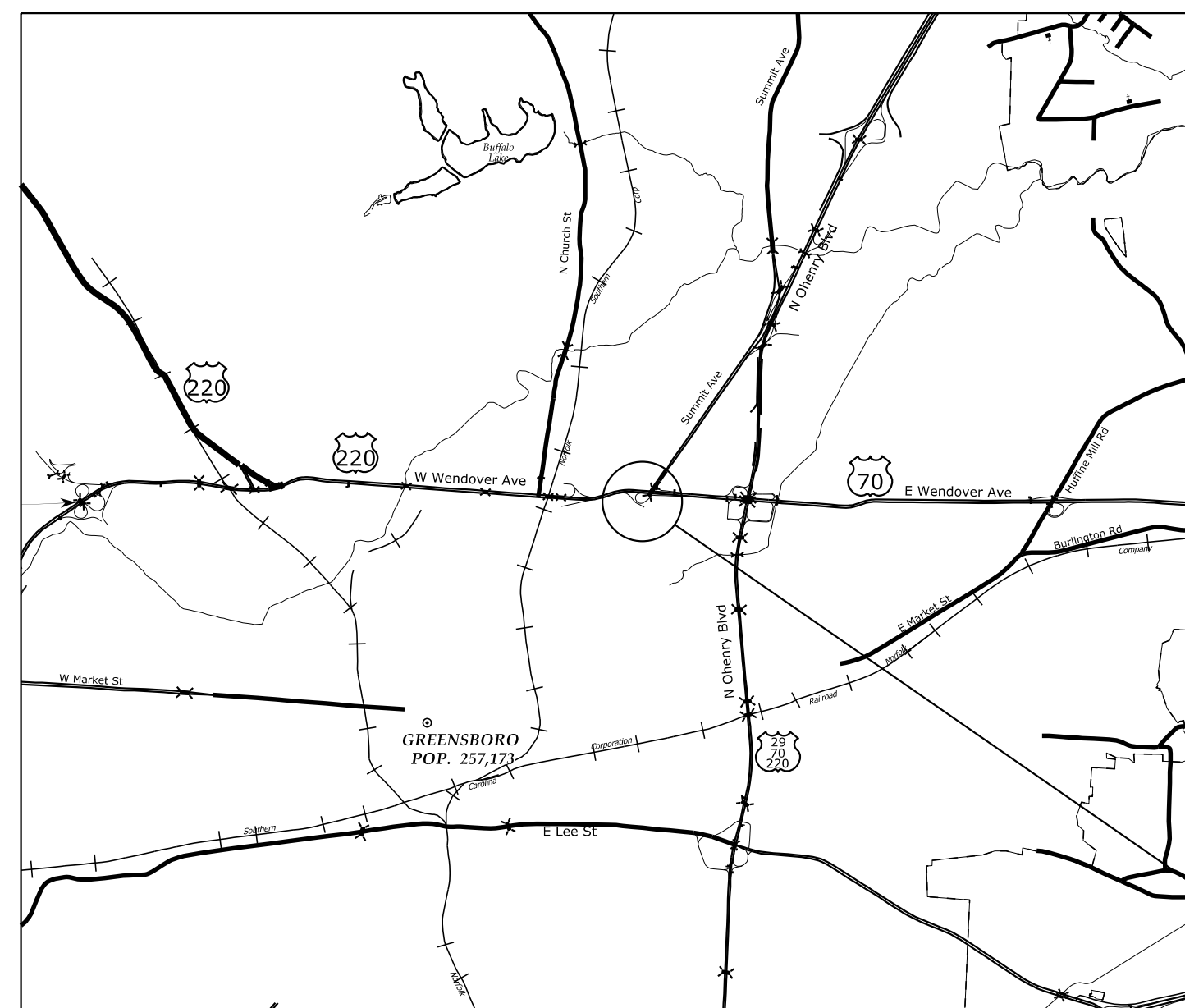
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**GUILFORD COUNTY**



**SR 2526 (SUMMIT AVENUE) AT EASTBOUND  
US 220 (WENDOVER AVENUE) RAMPS IN  
GREENSBORO**



**PROJECT LOCATION**

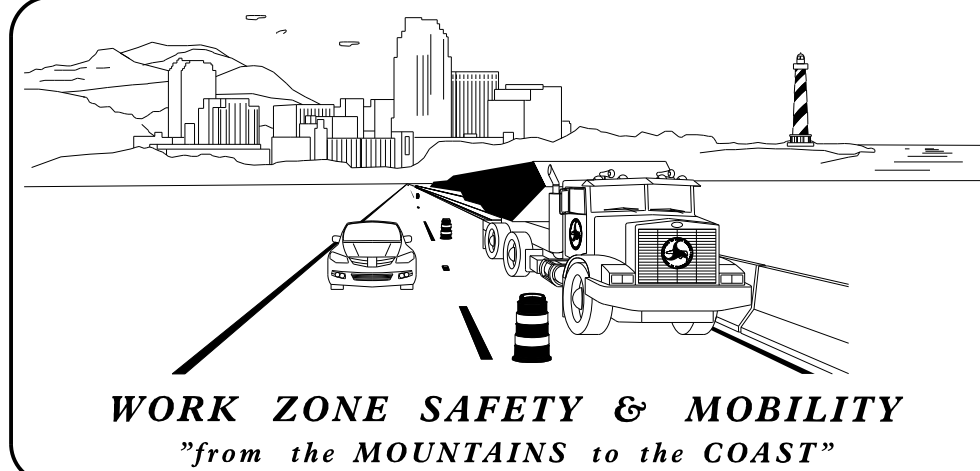
**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET
TMP-1A	ROADWAY STANDARD DRAWINGS, LEGEND, AND PHASING
TMP-2	GENERAL NOTES
TMP-3	LONG TERM LANE CLOSURE DETAIL

SHEET NO.

TMP-1

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**PLANS PREPARED BY:**

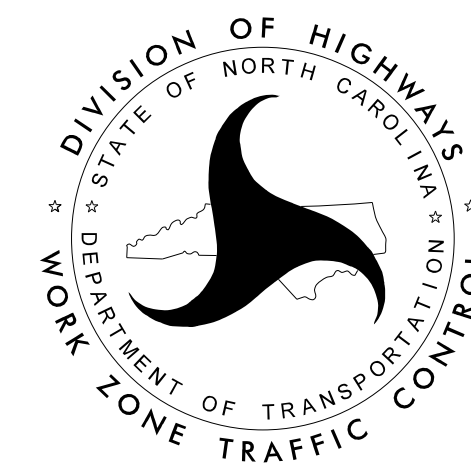
KEN THORNEWELL, JR, PE

JUSTIN BEAVER, PE

**NCDOT CONTACTS:**

KEN THORNEWELL, JR, PE  
**PROJECT ENGINEER**

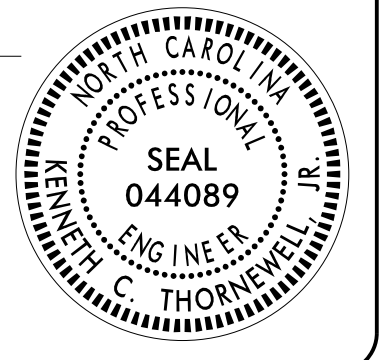
JUSTIN BEAVER, PE  
**PROJECT DESIGN ENGINEER**



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

APPROVED: *Kenneth C. Thornevell, Jr., P.E.*  
02/21/2024  
DATE:

SEAL



**TIP PROJECT: W-5807A**

# ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

### GENERAL

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

### 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

### TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

### PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

## PHASING

### STEP I

USING RSD 1101.01, SHEET 2 OF 3, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L- SUMMIT AVE AND -Y- OFF-RAMP.

USING 1101.01, SHEET 3 OF 19, PERFORM CURB RAMP AND CONCRETE ISLAND WORK ALONG -Y-. CLOSE SIDEWALK ACCESS AS NEEDED WITH PEDESTRIAN CHANNELIZING DEVICES.

### STEP II

USING TMP-3, CLOSE BOTH INSIDE LANES ALONG -L- SUMMIT AVE AND LEFT TURN LANE ALONG -Y- OFF-RAMP.

PERFORM SIGNAL FOUNDATION AND MEDIAN WORK ALONG -L-. KEEP INSIDE LANES CLOSED AS NEEDED UNTIL SIGNAL FOUNDATION IS COMPLETE.

KEEP THE LEFT TURN ALONG -Y- OFF RAMP CLOSED WHILE CONSTRUCTING THE SIGNAL.

### STEP III

USING RSD 1101.02, SHEET 3 OF 19, AND LAW ENFORCEMENT AS NEEDED, FINISH SIGNAL AND MEDIAN CURB CONSTRUCTION.

KEEP THE LEFT TURN ALONG -Y- OFF RAMP CLOSED UNTIL SIGNAL IS OPERATIONAL.

### STEP IV

UPON COMPLETION OF CONSTRUCTION, REMOVE ALL TRAFFIC CONTROL DEVICES AND ACTIVATE SIGNAL.

APPROVED: <i>Kenneth C. Thornwell Jr., P.E.</i> <small>1E991EP27373405</small> DATE: 02/21/2024	SEAL 		<b>ROADWAY STANDARD DRAWINGS &amp; LEGEND</b>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			

2/21/2024 S:\TMU\WZTC\DesignGroup2\Beaver\W-5807A (in House)\W-5807A\_TMP-1A-Legend and Phasing.dgn User: jdbeaver1

## GENERAL NOTES / LOCAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

### TIME RESTRICTIONS

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

ROAD NAME

ANY ROAD

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

B) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
SUMMIT ROAD	Any Day 6:00 AM to 9:00 PM	20 MIN FOR SIGNAL WORK

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.
- 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) 200 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) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC CONTROL DEVICES

- O) 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.
- P) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- Q) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

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

## **MANAGEMENT STRATEGIES**

### TRAFFIC MANAGEMENT STRATEGIES:

LANE SHIFTS OR CLOSURES  
SHOULDER CLOSURES  
ONE-LANE, TWO WAY OPERATION (FLAGGING)  
RAMP CLOSURES / RELOCATION

### TRAFFIC / INCIDENT MANAGEMENT & SPEED ENFORCEMENT STRATEGIES:

COORDINATION WITH STATE TRAFFIC OPERATIONS CENTER (STOC)  
DEDICATED (PAID) LAW ENFORCEMENT

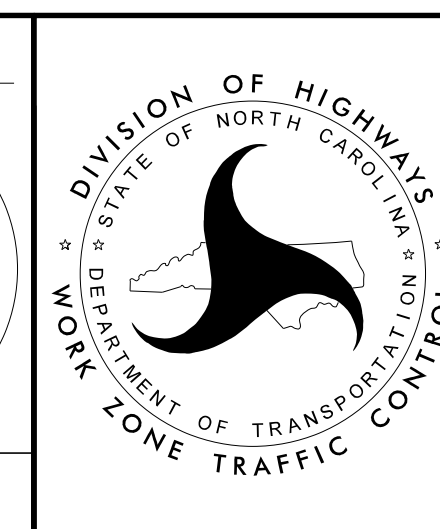
### CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:

INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

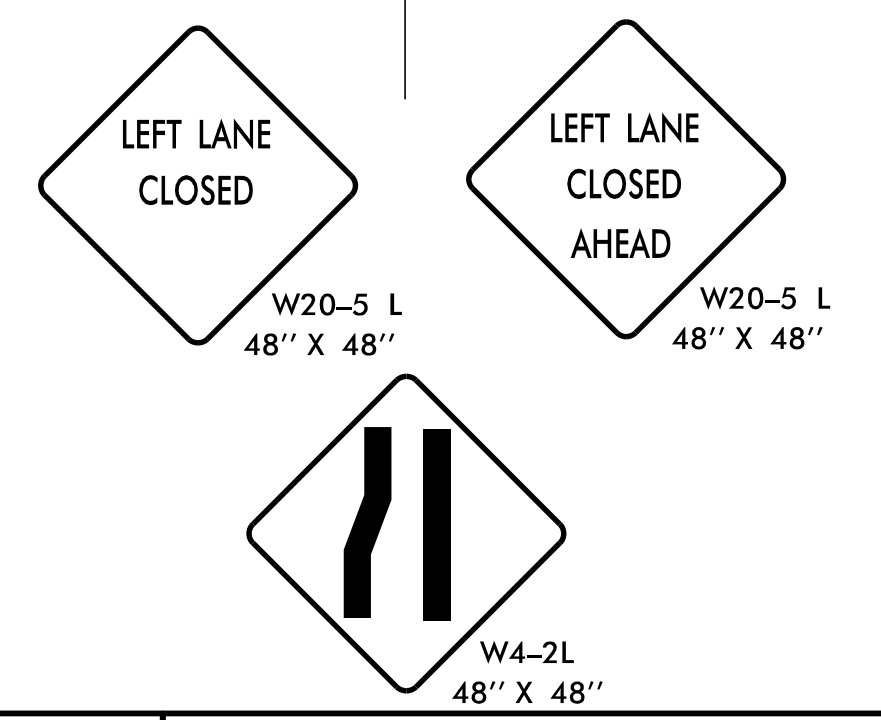
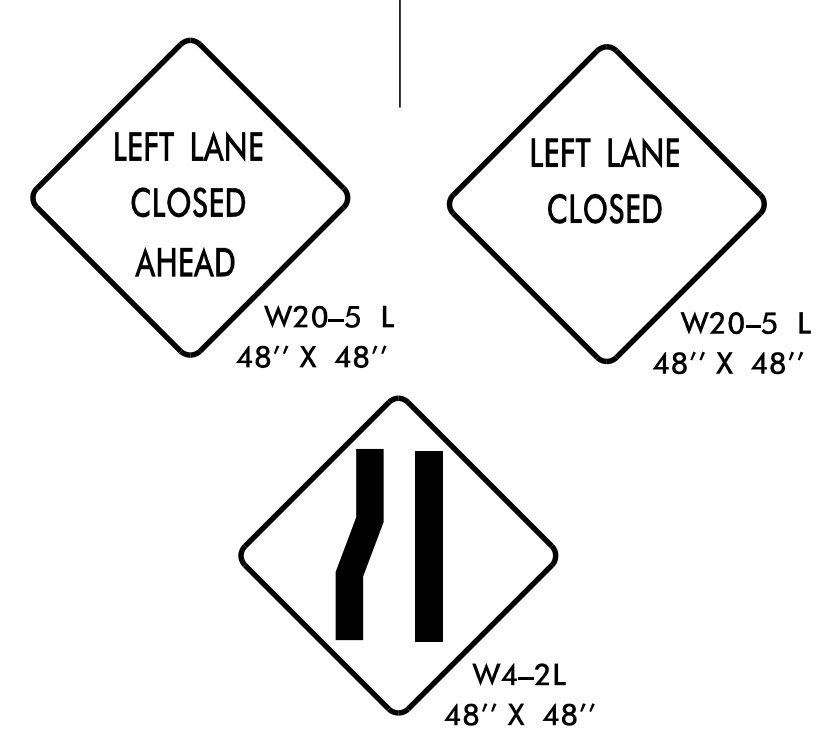
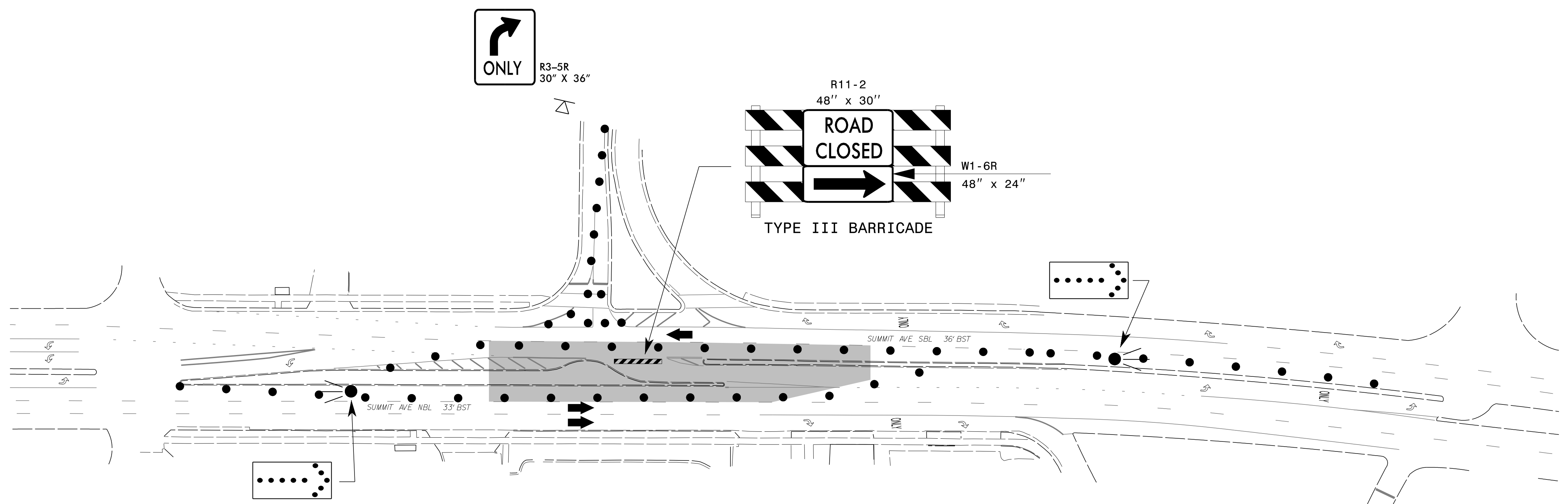
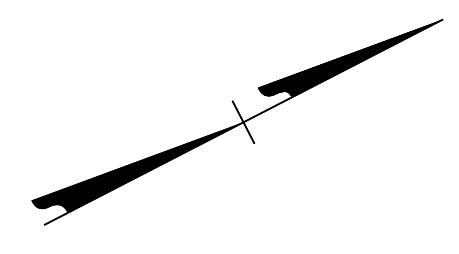
APPROVED: *Kenneth C. Thornewell Jr., P.E.*  
DATE: 02/21/2024

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DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

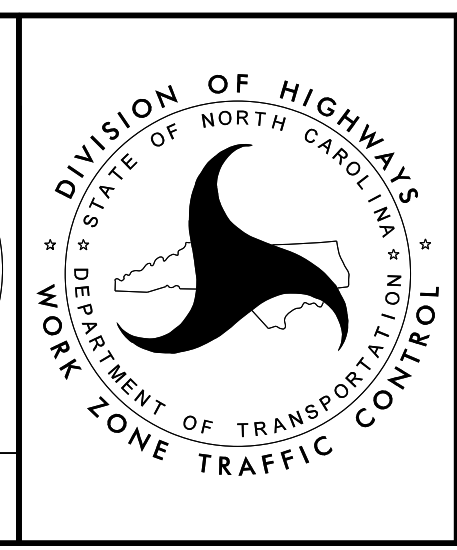


GENERAL NOTES



2/21/2024  
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 User: jdbeaver1

APPROVED: *Kenneth C. Thornwell Jr., P.E.*  
 DATE: 02/21/2024  
 SEAL



**LONG TERM  
 LANE CLOSURE DETAILS**

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

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5807A	PMP-1	PMP-2

**PAVEMENT MARKING PLAN**  
**GUILFORD COUNTY**

LOCATION: SR 2526 (SUMMIT AVENUE) AT EASTBOUND US 220 (WENDOVER AVENUE) RAMPS IN GREENSBORO

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN ROADWAY STANDARD DRAWINGS - DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AN BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>-STD. NO-</u>	<u>TITLE</u>
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVMENT MARKINGS - INTERSECTIONS
1205.05	TURN LANES
1205.06	LANE DROPS
1205.08	SYMBOLS AND WORD MESSAGES
1205.09	PAINTED ISLANDS

**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 AS DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING
ALL	THERMOPLASTIC

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

C) REMOV&R.EPLACE ANY CONFLICTING / DAMAGED PAVEMENT MARKING LINES .

**INDEX**

<u>- SHEET NO. -</u>	<u>- DESCRIPTION -</u>
PMP - 1	PAVEMENT MARKING PLAN TITLE SHEET
PMP - 2	FINAL PAVEMENT MARKING AND MARKER DETAIL

**PLAN PREPARED BY: NCDOT DDC UNIT**

TRUNG NGUYEN, PE	DDC ENGINEER
JAMES B. YATES, PE	PROJECT DESIGN ENGINEER

**PERMANENT PAVEMENT MARKING & MARKER SCHEDULE**

TIP Project # W-5807A

THERMOPLASTIC(6", 90 MILS)

T20	(6") WHITE EDGELINE		97LF
T20	(6") WHITE EDGELINE	From Sta.14+27 -EL- to Sta. 16+45 -EL-	218LF
T22	(6") 10 FT. WHITE SKIP	From Sta.10+00 -EL- to Sta. 14+47 -EL-	112LF
T22	(6") 10 FT. WHITE SKIP	From Sta.10+00 -EL- to Sta. 16+45 -EL-	161LF
T22	(6") 10 FT. WHITE SKIP	From Sta.10+00 -EL- to Sta. 16+45 -EL-	161LF
T23	(6") 3 FT. - 9 FT./SP WHITE MINISKIP		60LF
T23	(6") 3 FT. - 9 FT./SP WHITE MINISKIP	From Sta.14+07 -EL- to Sta. 16+45 -	60LF
T30	(6") YELLOW EDGELINE		19LF
T34	(6") 2 FT. - 6 FT./SP YELLOW MINISKIP		27LF

**TOTAL (6", 90 MILS) 1015 LF**

THERMOPLASTIC (12", 90 MILS)

T50	(12") WHITE GORELINE		46LF
T50	(12") WHITE GORELINE	From Sta.10+00 -EL- to Sta. 11+06 -EL-	106LF
T50	(12") WHITE GORELINE	From Sta.10+00 -EL- to Sta. 11+06 -EL-	106LF
T50	(12") WHITE GORELINE	From Sta.11+52 -RAMPM- to Sta. 11+85 -	33LF
T50	(12") WHITE GORELINE	From Sta.13+91 -EL- to Sta. 14+24 -EL-	33LF
T52	(12") YELLOW DIAGONAL		36LF

**TOTAL (12", 90 MILS) 360 LF**

THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)

T100	ALPHANUMERIC CHAR. (90 MIL)	--ONLY X 2--	8EA
------	-----------------------------	--------------	-----

THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)

T70	LEFT TURN ARROW		3EA
T71	RIGHT TURN ARROW		5EA
T72	STRAIGHT ARROW		12EA

**TOTAL PAVEMENT MARKING SYMBOLS (90 MILS) 20 EA**

THERMOPLASTIC GENERIC PAVEMENT MARKING ITEM (1205)

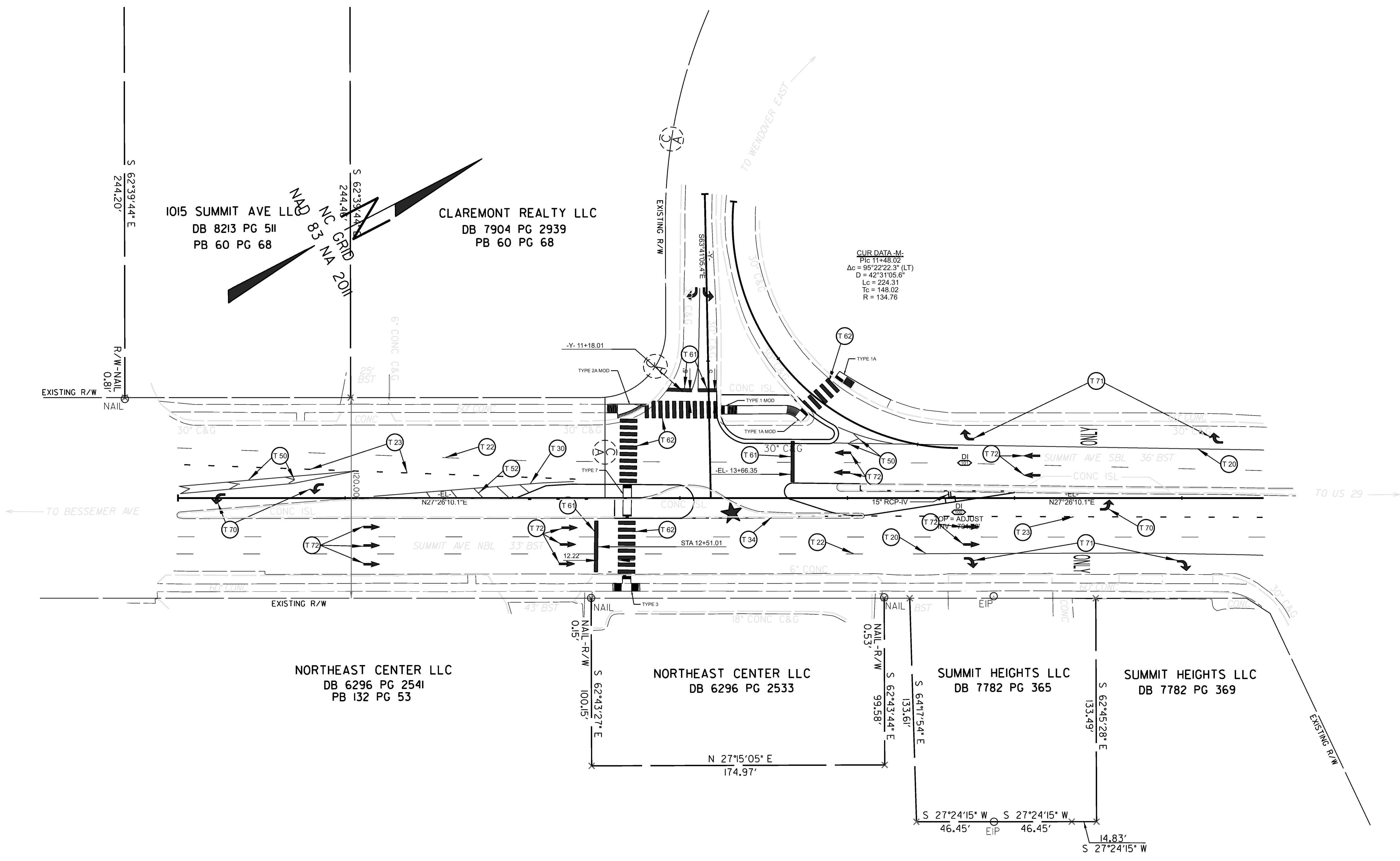
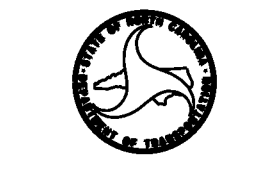
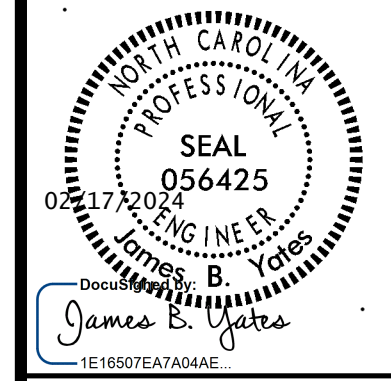
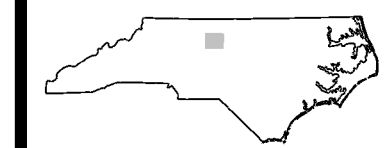
T61	WHITE STOPBAR (24", 90 MIL)		84LF
T62	WHITE CROSSWALK LINE (24", 90 MIL)		340LF

**TOTAL GENERIC PAVEMENT MARKING ITEM (1205) 424 LF**

TIP PROJECT: W-5807A

CONTRACT: DG00673

09/08/09



1015 SUMMIT AVE LLC  
DB 8213 PG 511  
PB 60 PG 68

CLAREMONT REALTY LLC  
DB 7904 PG 2939  
PB 60 PG 68

NORTHEAST CENTER LLC  
DB 6296 PG 2541  
PB 132 PG 53

NORTHEAST CENTER LLC  
DB 6296 PG 2533

SUMMIT HEIGHTS LLC  
DB 7782 PG 365

SUMMIT HEIGHTS LLC  
DB 7782 PG 369

CUR DATA-M:  
P/C 11+48.02  
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D = 42°31'05.6"  
Lc = 224.31  
Tc = 148.02  
R = 134.76

TIP PROJECT: W-5807A

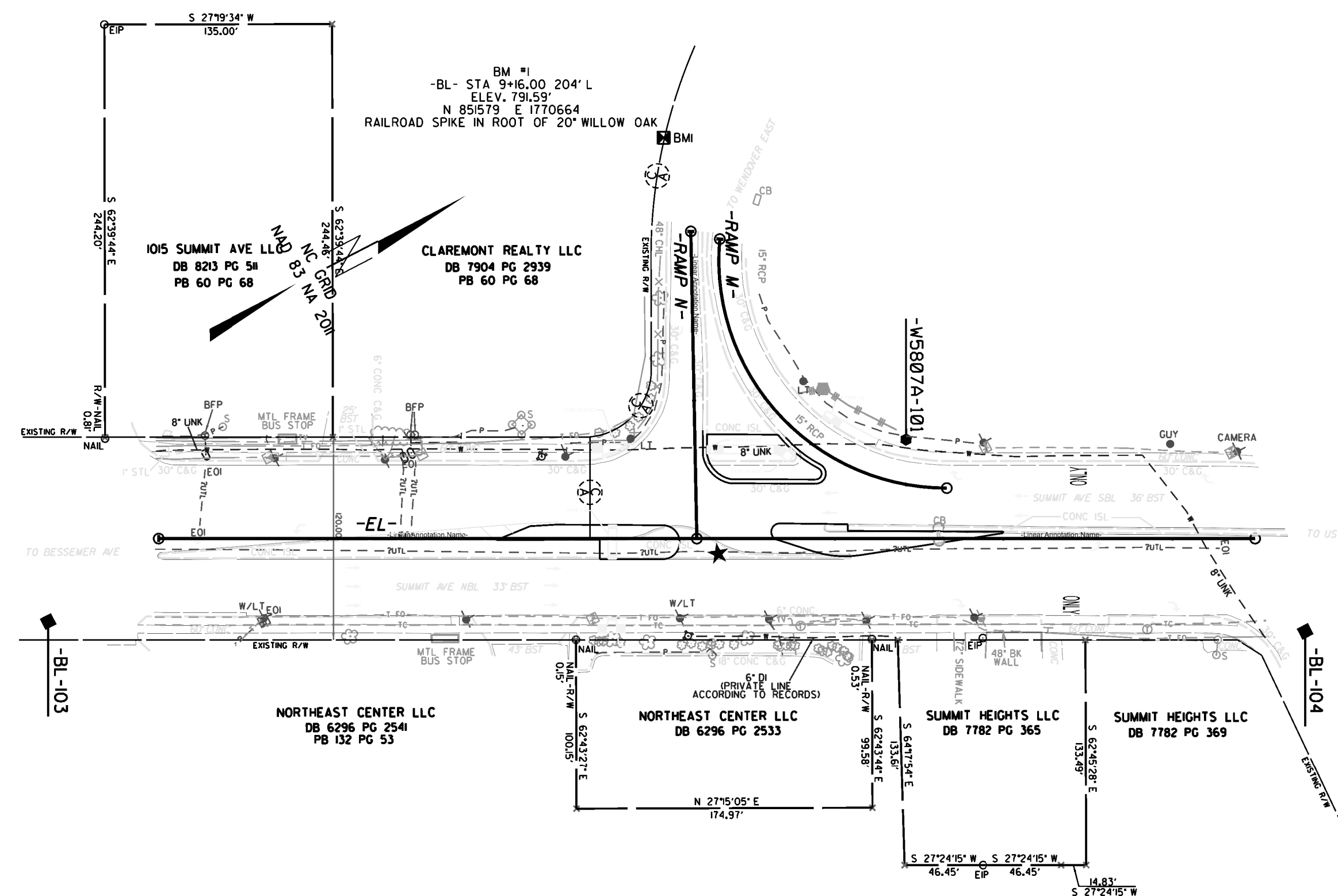
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

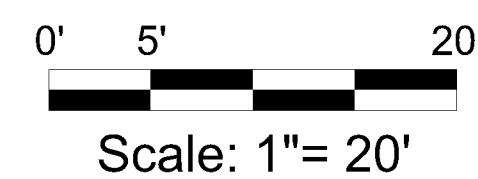
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5807A	EC-1	EC-4
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
48952.1.2	2526004	PE	
48952.2.2	2526004	RW	
48952.3.2	2526004	CONSTRUCTION	

### EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	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	



\* DRAWING NOT TO SCALE \*



ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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:  
**DIVISION 7 DDC**  
1584 Yanceyville St.  
Greensboro, NC 27405  
**2024 STANDARD SPECIFICATIONS**

Designed by:  
**James B. Yates, PE** 4523  
NAME LEVEL III CERTIFICATION NO.

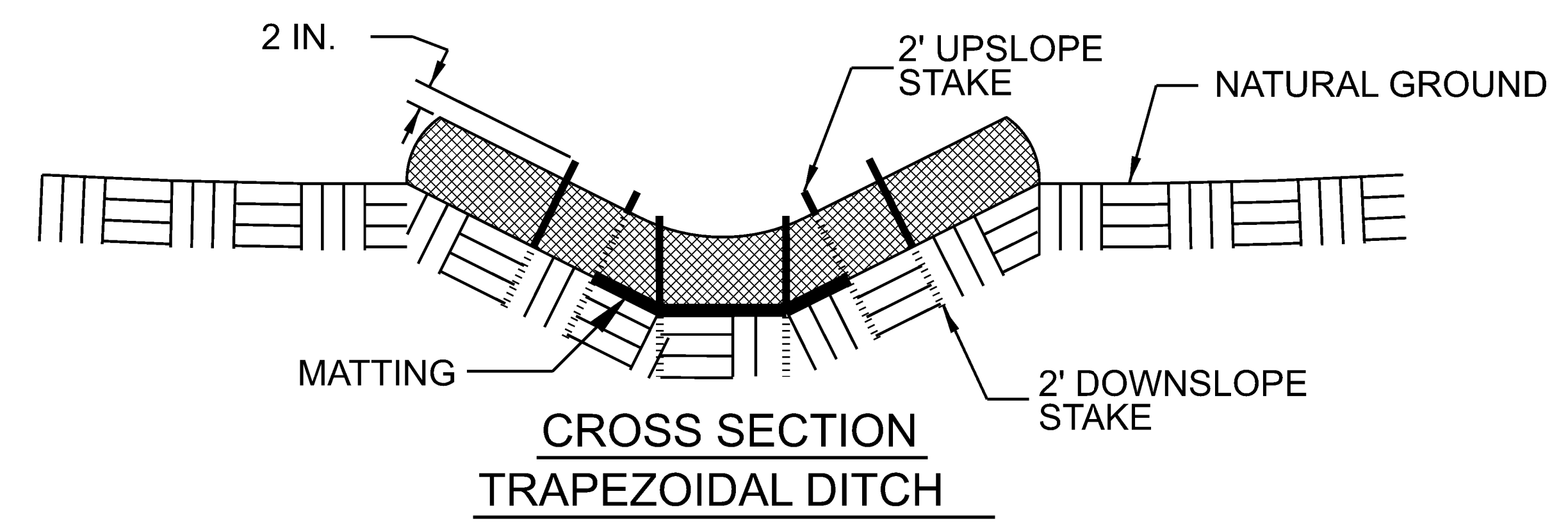
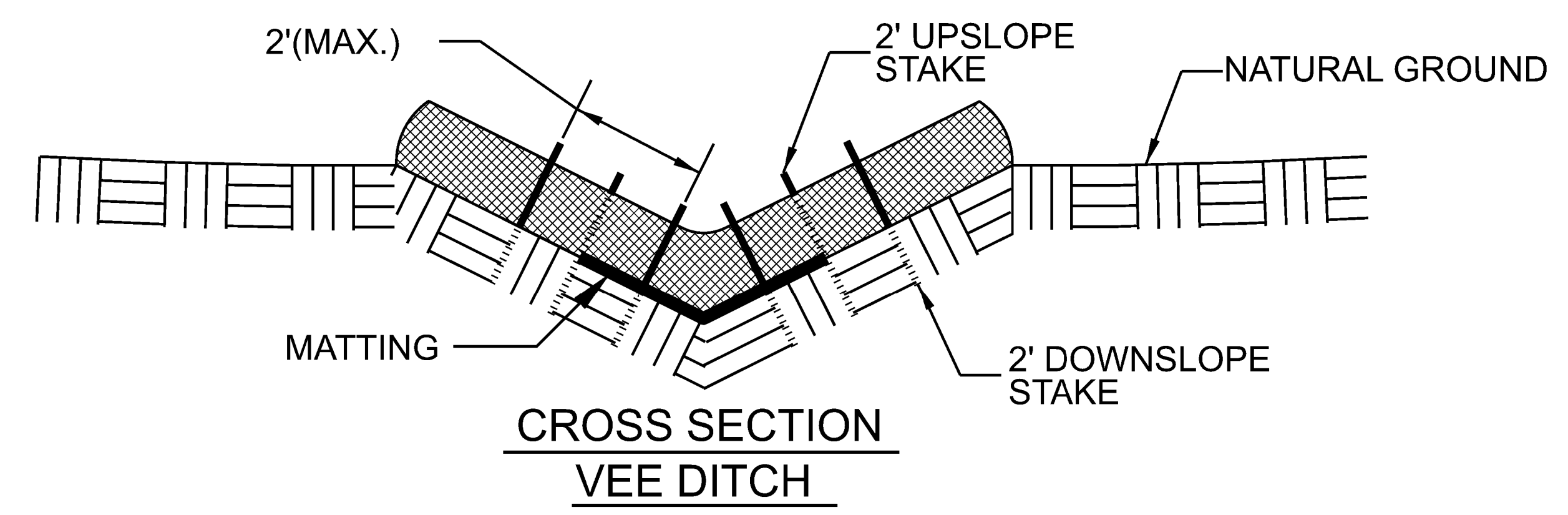
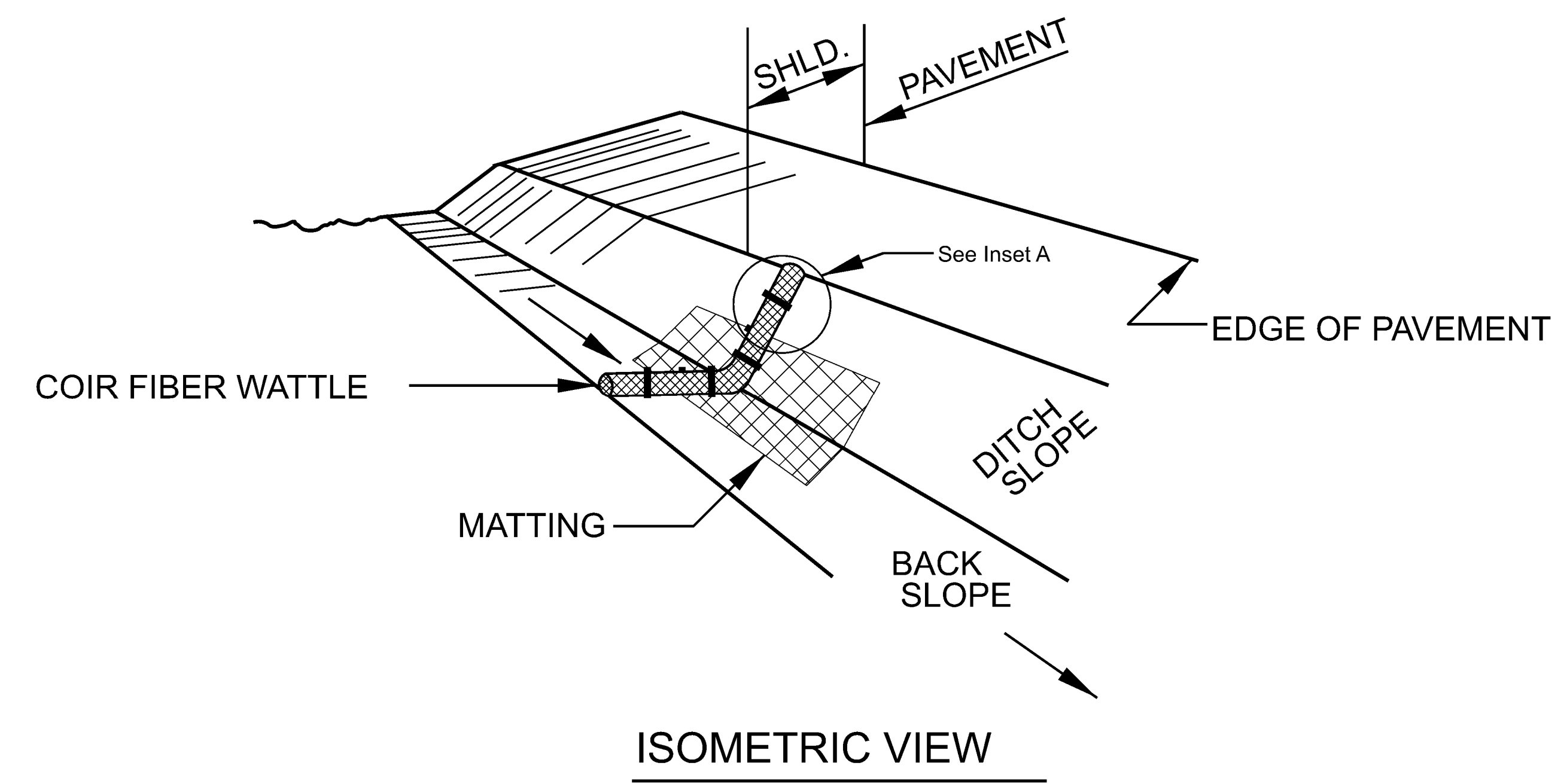
**Roadway Standard Drawings**

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.

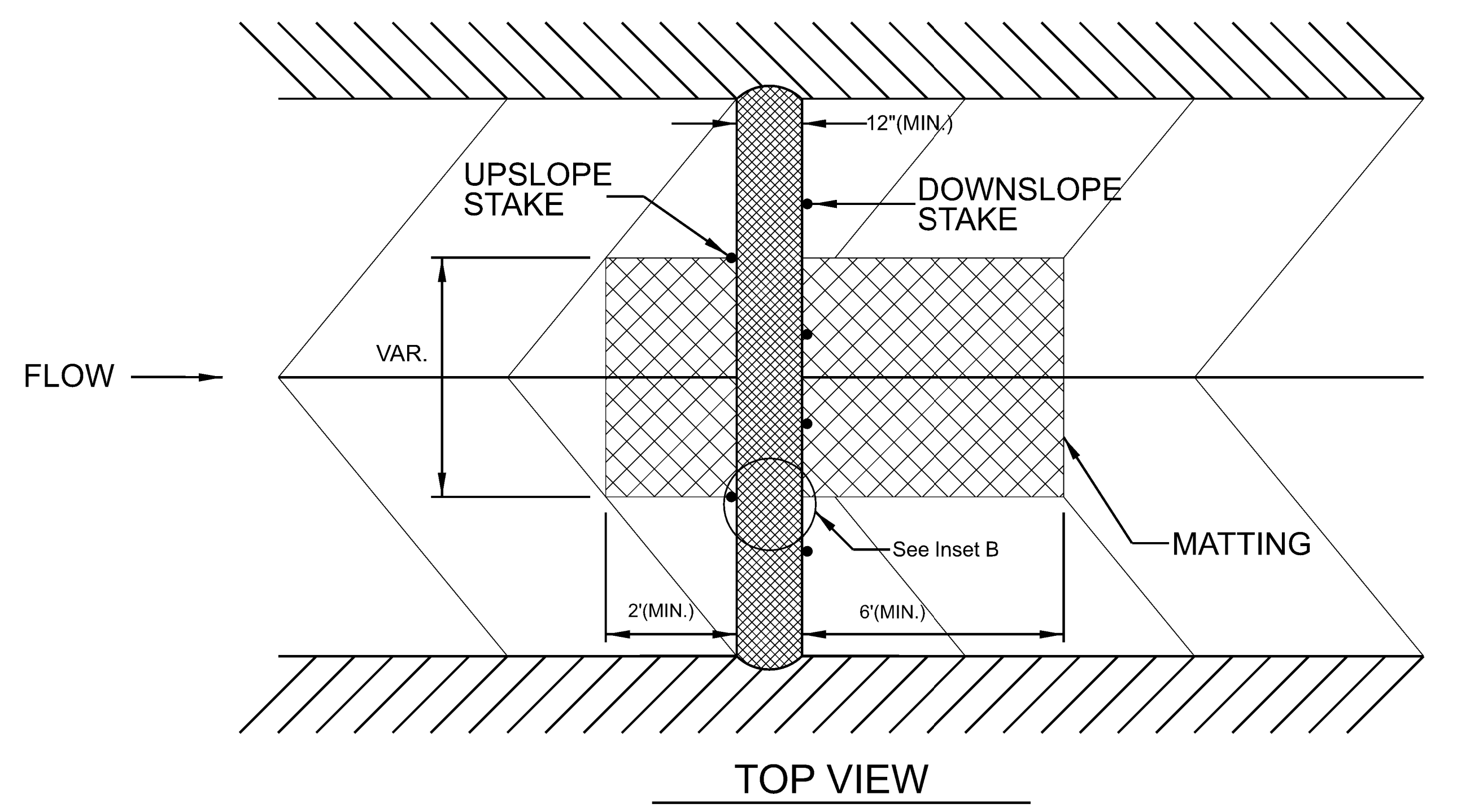
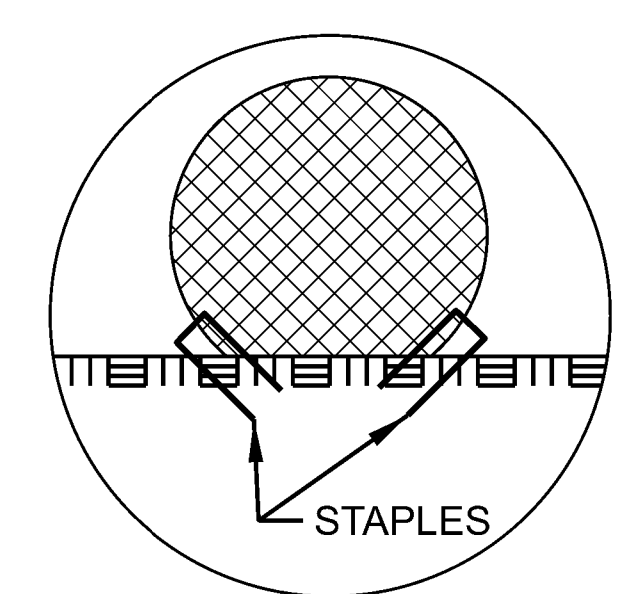
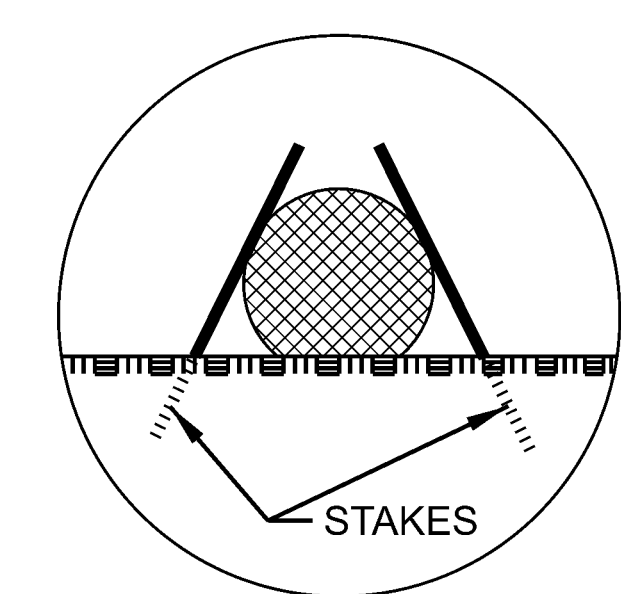
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type 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	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

PROJECT REFERENCE NO. W-5807A	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# 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.



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO.	SHEET NO.
W-5807A	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## 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 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 HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
W-5807A	EC-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BM #1  
 -BL- STA 9+16.00 204' L  
 ELEV. 791.59'  
 N 851579 E 1770664  
 RAILROAD SPIKE IN ROOT OF 20" WILLOW OAK

1015 SUMMIT AVE LLC  
 DB 8213 PG 511  
 PB 60 PG 68

CLAREMONT REALTY LLC  
 DB 7904 PG 2939  
 PB 60 PG 68

CUR DATA -M-  
 Plc 11+48.02  
 $\Delta c = 95^{\circ}22'22.3"$  (LT)  
 $D = 42^{\circ}31'05.6"$   
 $Lc = 224.31$   
 $Tc = 148.02$   
 $R = 134.76$

