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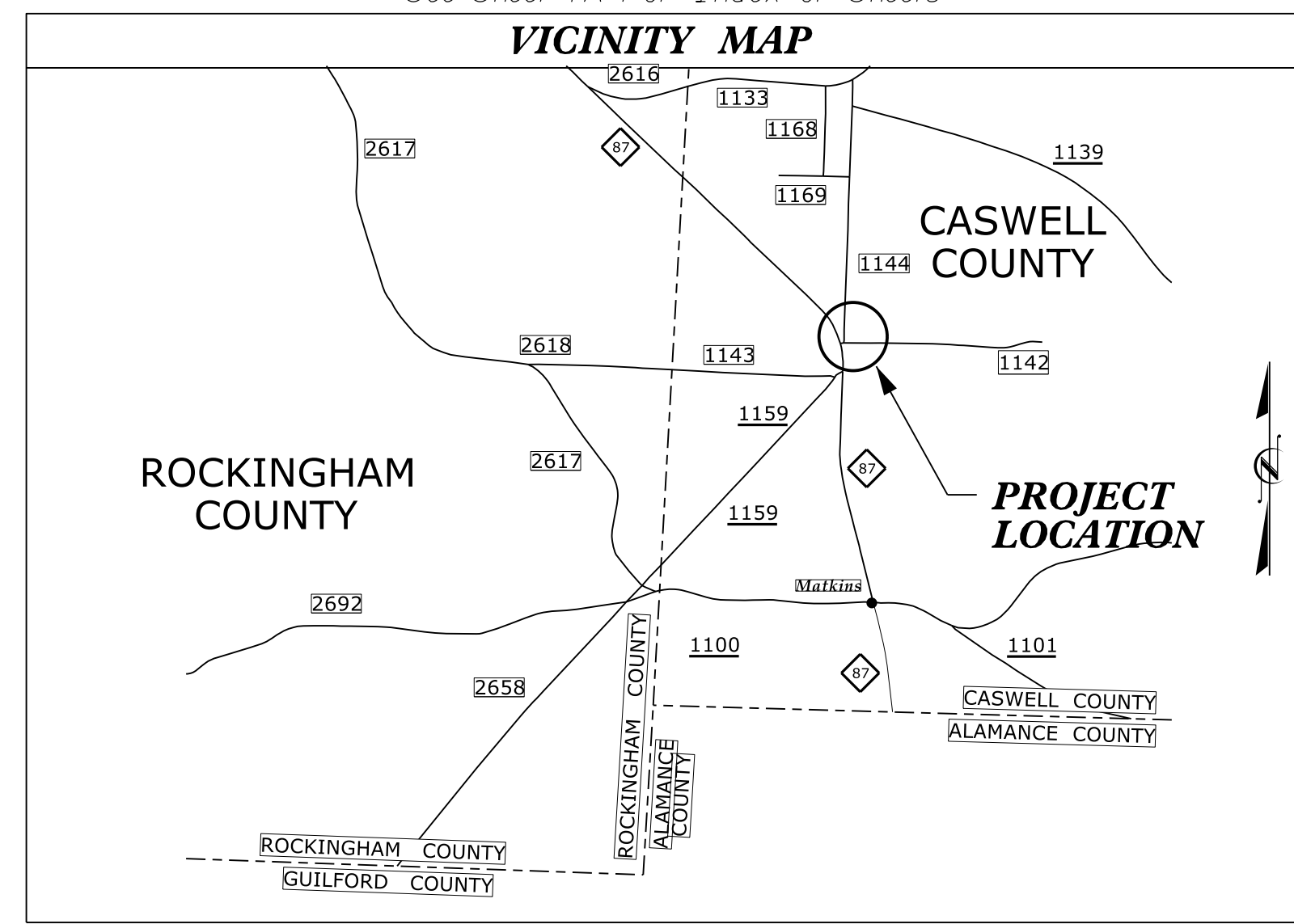
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05-JAN-2022 15:51
 C:\work\curt\ncdot\pwbentley.com\ncdot\p-w-01\nishant m. shah\dms08250\W-5707H-RDY-TSH.dgn
 nishant AT DIV01 F-312947
 09/08/19

TIP PROJECT: W-5707H

CONTRACT: DG00562

See Sheet 1A For Index of Sheets



NOT TO SCALE

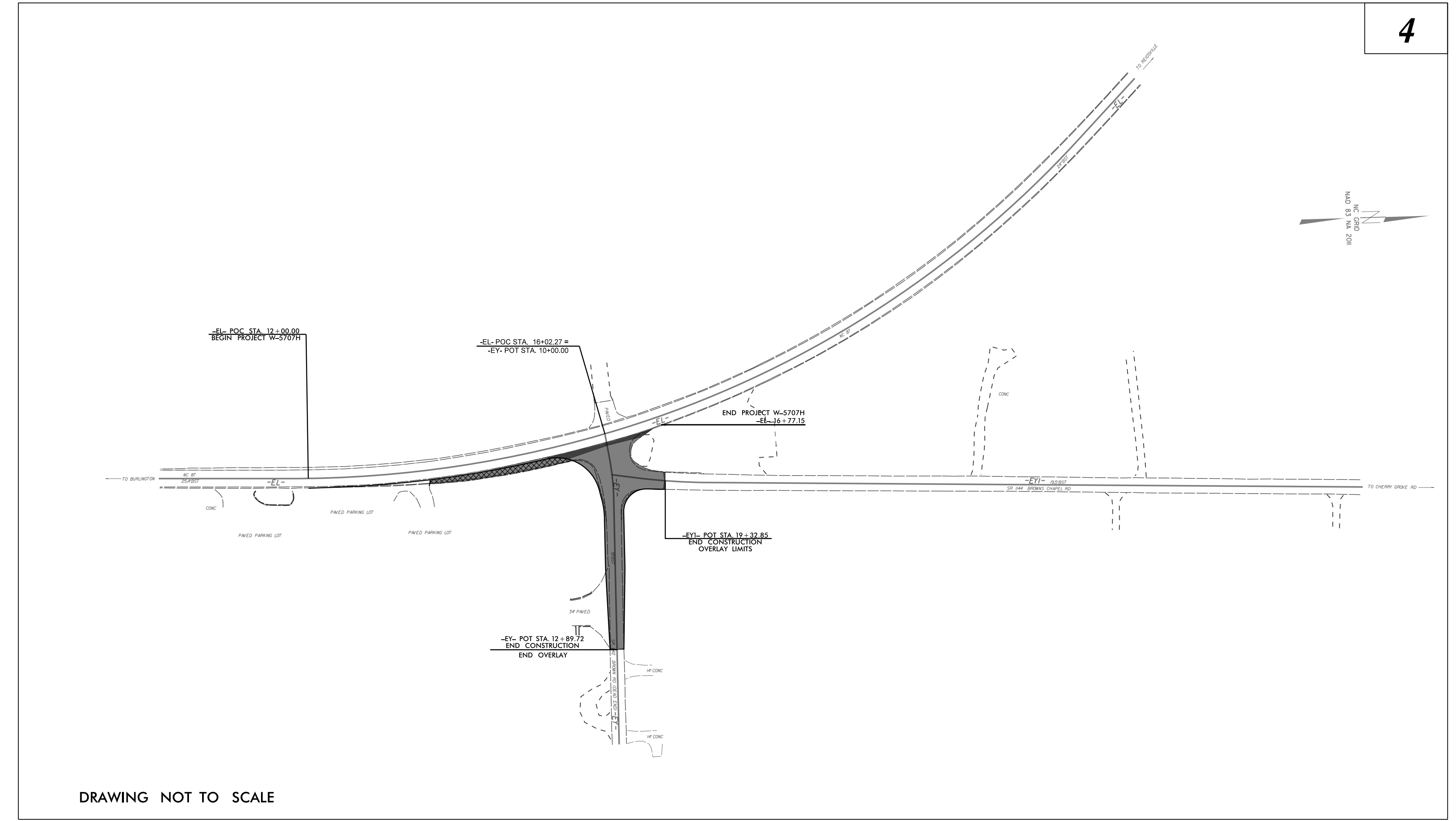
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CASWELL COUNTY

**LOCATION: NC 87 AT SR 1144 (BROWNS CHAPEL ROAD)
AND SR 1142 (BROWN ROAD) - SAFETY IMPROVEMENTS**

TYPE OF WORK: GRADING, PAVING, EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5707H	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
44853.1.8	HSIP-0087(040)	P.E.	
44853.2.8	HSIP-0087(040)	ROW	
44853.2.8	HSIP-0087(040)	UTILITIES	
44853.3.8	HSIP-0087(040)	CONSTRUCTION	

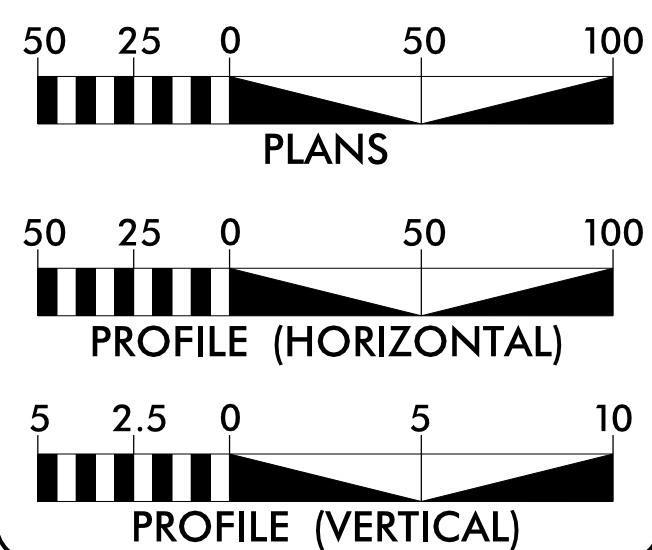


DRAWING NOT TO SCALE

4

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 1600 (SR 1144)
V = 50 MPH POSTED

* TTST = 1 DUAL = 2
FUNC CLASS = LOCAL

PROJECT LENGTH

LENGTH ROADWAY PROJECT W-5707H = 0.10 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1584 YANCEYVILLE STREET, GREENSBORO, NC 27407

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
MARCH 3, 2022

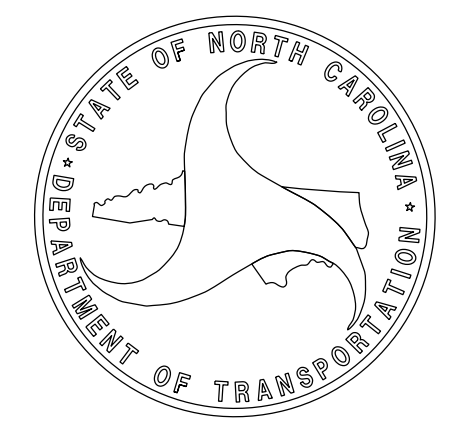
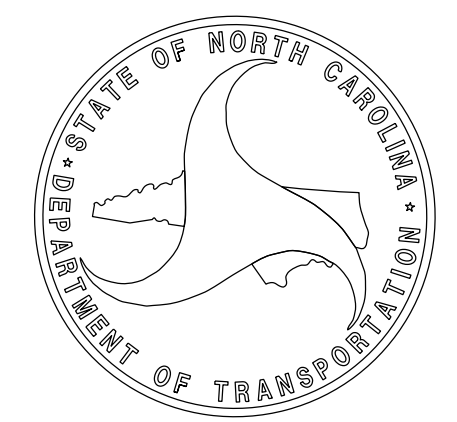
CHAD REIMAKOSKI
PROJECT ENGINEER

NISHANT M. SHAH
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER

CHRISTOPHER B. SMITHERMAN P.E.
SIGNATURE: _____



PROJECT REFERENCE NO. W-5707H	SHEET NO. 1A
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
4	PLAN SHEET
RW01 THRU RW05	SURVEY CONTROL AND RIGHT OF WAY SHEETS
PMP-1THRU PMP-2	PAVEMENT MARKING PLAN
EC-1 THRU EC-2	EROSION CONTROL PLANS

EFF. 01-16-2018
REV.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JANUARY, 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
225.04	METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
225.06	METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	PAVEMENT REPAIRS
DIVISION 8 - INCIDENTALS	
848.04	STREET TURNOUT

GENERAL NOTES: 2018 SPECIFICATIONS

EFFECTIVE: 01-16-2018
REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

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.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 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.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.02

SIDE ROADS:

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.

DRIVEWAYS:

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.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

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 AT&T
AT&T CONTACT PERSON - WILL PACE PHONE# 336-391-4843
EMAIL= WP678R@ATT.COM
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Computed Property Corner	-----
Property Monument	□ EGM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	---WLB---
Proposed Wetland Boundary	---WLB---
Existing Endangered Animal Boundary	---EAB---
Existing Endangered Plant Boundary	---EPB---
Existing Historic Property Boundary	---HPB---
Known Contamination Area: Soil	☠-S-☠
Potential Contamination Area: Soil	☠-S-☠
Known Contamination Area: Water	☠-W-☠
Potential Contamination Area: Water	☠-W-☠
Contaminated Site: Known or Potential	-----

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
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	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	-----
Primary Horiz Control Point	-----
Primary Horiz and Vert Control Point	-----
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◇
Vertical Benchmark	△
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite R/W Marker	-----
New Control of Access Line with Concrete CA Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage /Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	○
Single Shrub	○

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

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:

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 LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	-----

TV:

TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	-----

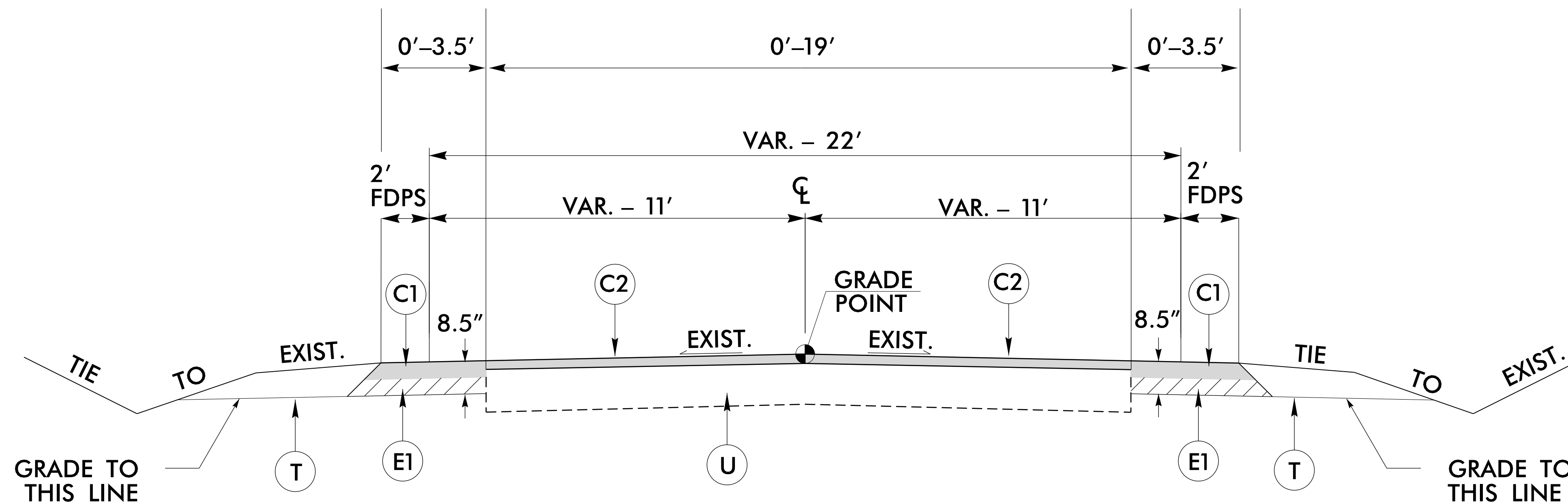
SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

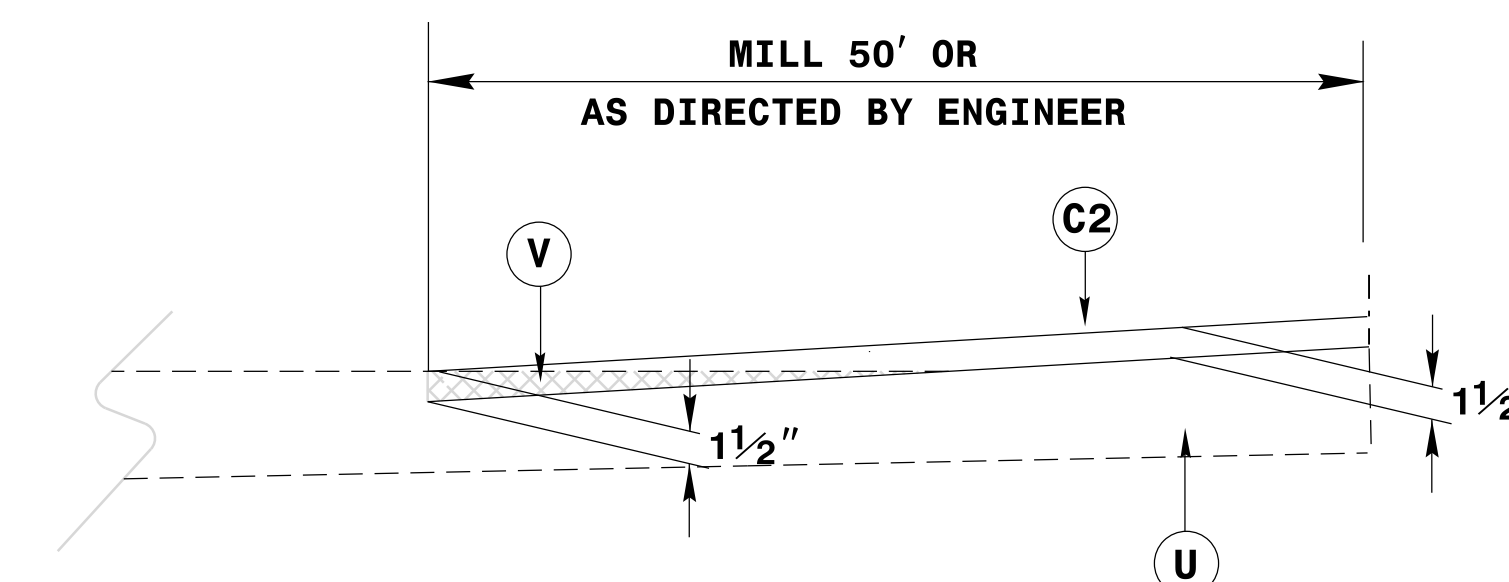
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	-----
Abandoned According to Utility Records	-----
End of Information	-----

PROJECT REFERENCE NO. W-5707H	SHEET NO. 2A
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



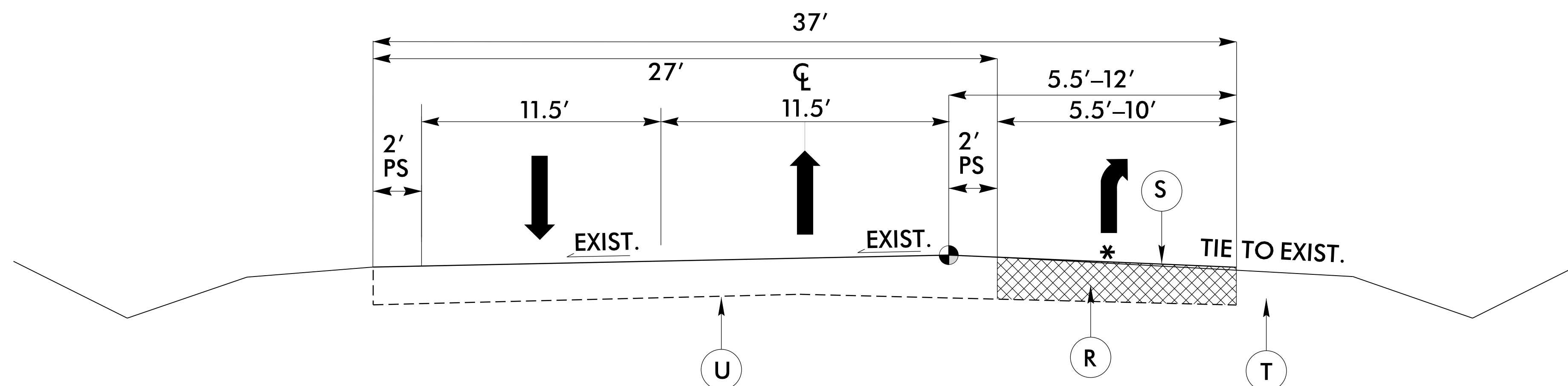
TYPICAL SECTION NO. 1
SR 1142 (BROWN ROAD) -EY-
FROM STA. 10+12.19 TO STA. 12+89.72 (100' TAPER TO EXISTING WIDTH)



INCIDENTAL MILLING DETAIL

SR 1142 (BROWN ROAD) -EY-
FROM STA. 10+12.19 TO STA. 10+62.19
FROM STA. 12+39.72 TO STA. 12+89.72

SR 1144 (BROWNS CHAPEL RD.) -EY1-
FROM STA. 19+32.85 TO 19+85.00
(IN THE TURNING RADIUS)



TYPICAL SECTION NO. 2
NC-87 -EL-
FROM STA. 13+62.20 TO STA. 15+52.76
(REMOVE RIGHT TURN LANE)

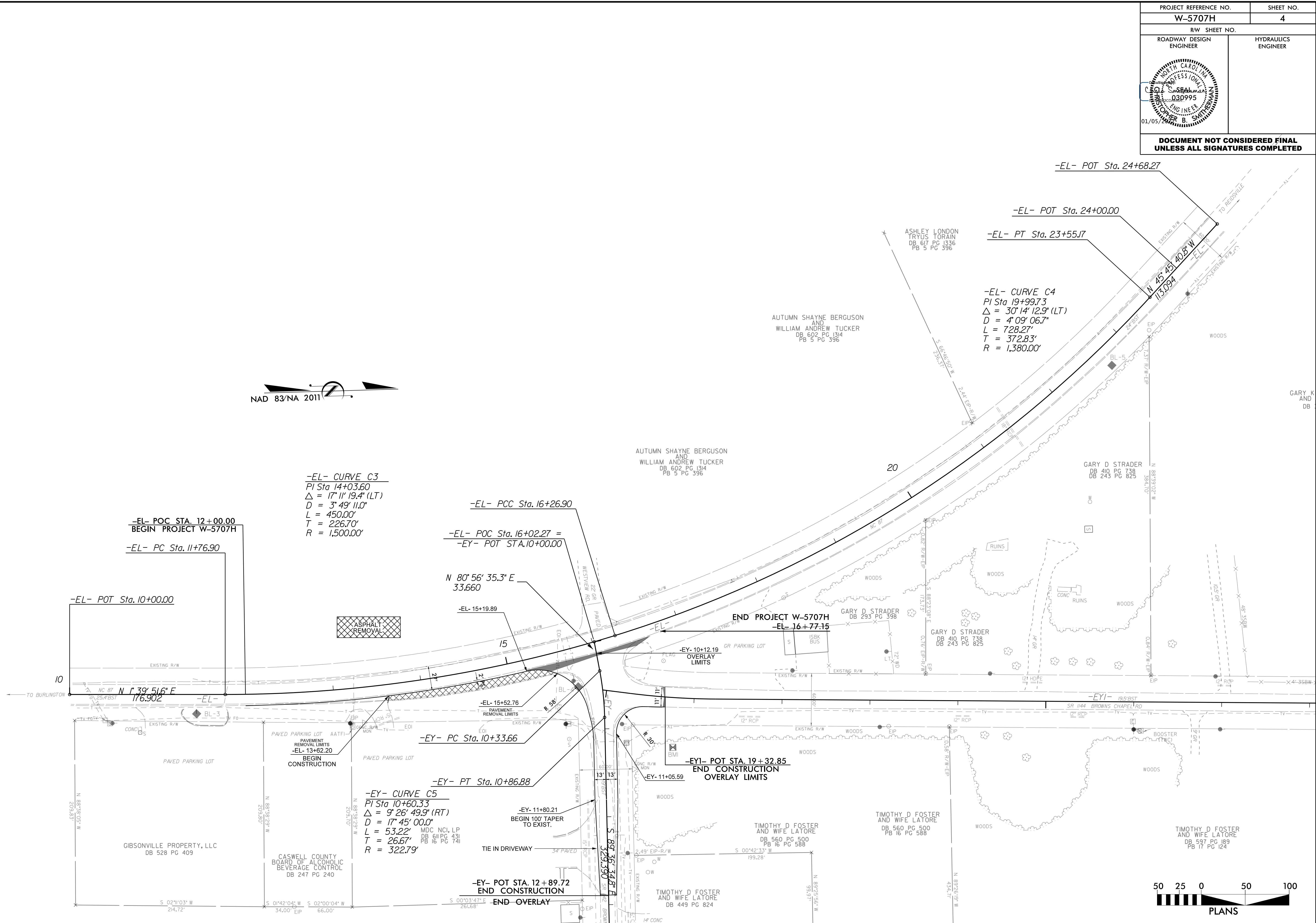
*** GRADE TO DRAIN**

PAVEMENT SCHEDULE
(FINAL PAVEMENT DESIGN)

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
E1	PROP. APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	INCIDENTAL MILLING, 0-1 1/2" DEPTH.
R	REMOVE EXISTING ASPHALT
S	SEED & MULCH

PROJECT REFERENCE NO.	SHEET NO.
W-5707H	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/99
 REVISIONS
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-EL- CURVE C3
 PI Sta 14+03.60
 $\Delta = 17^\circ 11' 19.4''$ (LT)
 D = 450.00'
 L = 226.70'
 R = 1,500.00'

-EL- POC STA. 12+00.00
 BEGIN PROJECT W-5707H
 -EL- PC Sta. 11+76.90

-EL- PCC Sta. 16+26.90
 -EL- POT STA. 16+00.00
 -EY- POT STA. 10+00.00

N 80° 56' 35.3" E
 33.660

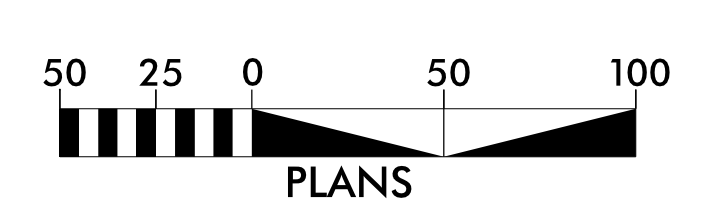
-EY- CURVE C5
 PI Sta 10+60.33
 $\Delta = 9^\circ 26' 49.9''$ (RT)
 D = 17' 45" 00.0"
 L = 53.22'
 T = 26.67'
 R = 322.79'

-EY- PC Sta. 10+33.66
 -EY- PT Sta. 10+86.88

-EY- POT STA. 12+89.72
 END CONSTRUCTION
 -END OVERLAY

END PROJECT W-5707H
 -EL- 16+77.15

-EY1- POT STA. 19+32.85
 END CONSTRUCTION
 OVERLAY LIMITS

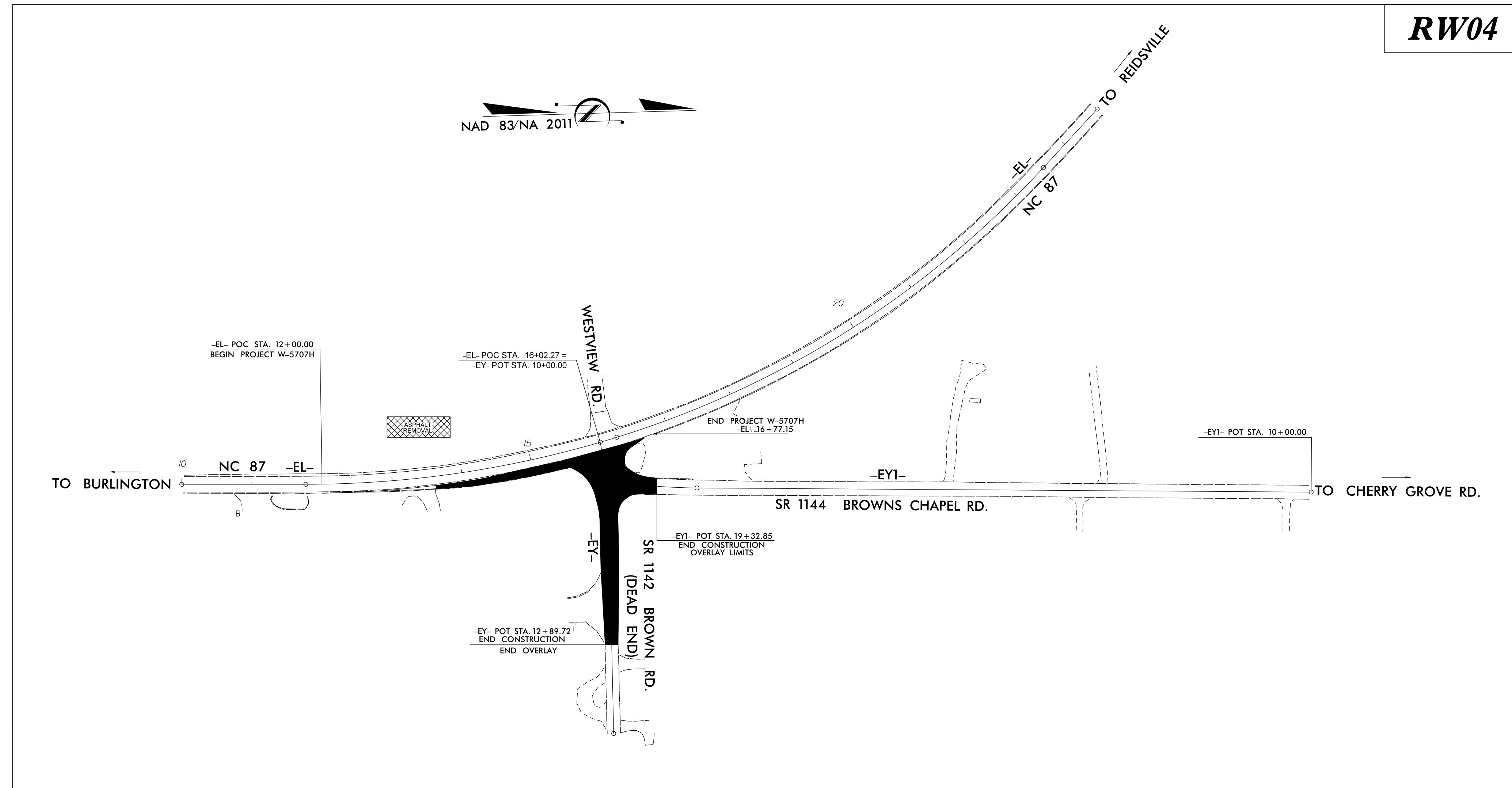


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5707H	RW01	4

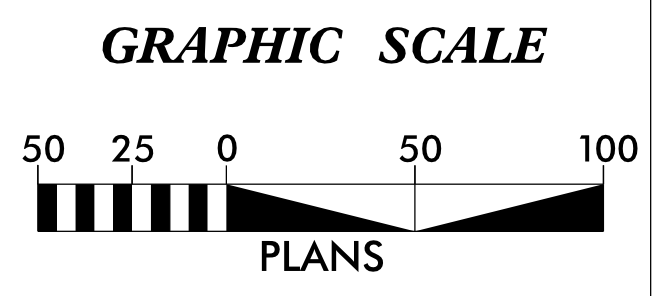
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

CASWELL COUNTY

TIP PROJECT: W-5707H



RW04



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "W5707H-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 917,500.3950(ft) EASTING: 1,846,567.9170(ft)
 ELEVATION: 803.25(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99999683218

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "W5707H-1" TO -EY1- POT STATION 10+00.00 IS
 N 6° 22' 22.1" W 99.39(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:
LOCATION & SURVEYS UNIT
DIVISION 7 FIELD OFFICE
 1101 East Wendover Avenue, Suite 100
 Greensboro, NC 27405

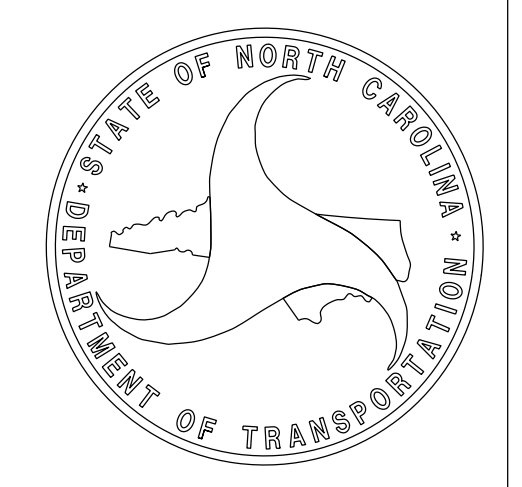
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A	LETTING DATE: 02/03/2022
----------------------------------	------------------------------------

PROFESSIONAL LAND SURVEYOR

DocuSigned by:
Lewis L. Moore
 7A47F3AF4EB4C8...
 SIGNATURE: _____

Date: 01/10/2022

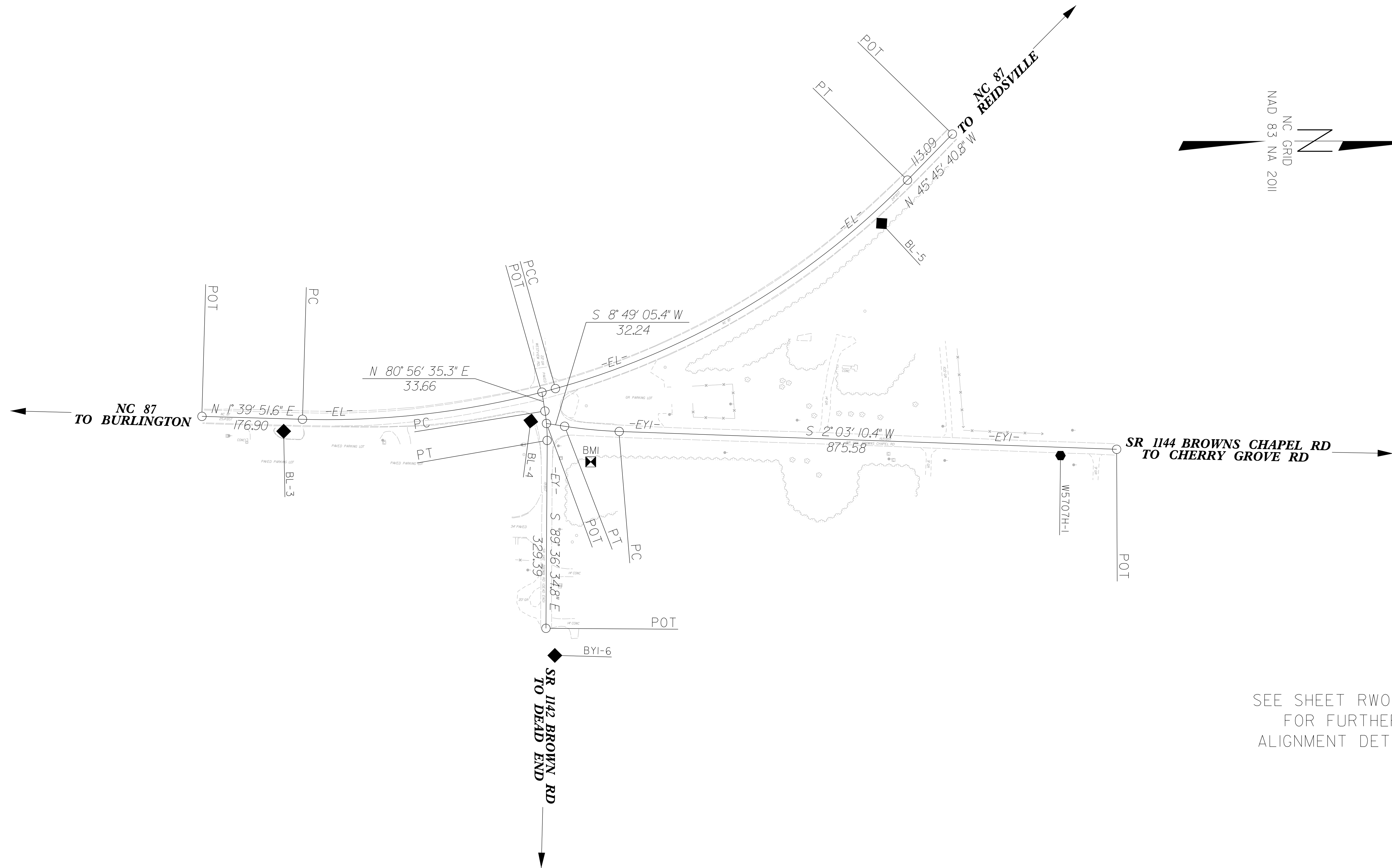


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PROJECT REFERENCE NO.	SHEET NO.
W-5707H	RW02C-1
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-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.

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
W-5707H	RW02C-2
Location and Surveys	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL - 3	916133.7548	1846525.0629	798.28
4		BL - 4	916568.5124	1846507.0214	798.46
5		BL - 5	917185.6979	1846159.2833	788.04

BY	POINT	DESC.	NORTH	EAST	ELEVATION
4		BL - 4	916568.5124	1846507.0214	798.46
1		W5707H-1	917500.3950	1846567.9170	803.25
2		W5707H-2	918394.8570	1846597.0950	800.33

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
4		BL - 4	916568.5124	1846507.0214	798.46
6		BY1-6	916610.7778	1846919.6561	791.70

 BM1 ELEVATION = 796.81
 N 916674 E 1846579
 BL STATION 9+92.00 114 RIGHT
 60D NAIL SET IN ROOT OF 14" PINE

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

REVISIONS

10-DEC-2018 17:47
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 AT LS-312549
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6/2/09

PROJECT REFERENCE NO.	SHEET NO.
W-5707H	RW02C-3
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	915990.039	1846498.934							
LINE			N 01°39'51.6" E	176.90					
PC	916166.866	1846504.072							
CURVE			N 06°55'48.2" W	448.31	17°11'19.4*(LT)	03°49'11.0"	450.00	226.70	1500.00
PCC	916611.905	1846449.980							
CURVE			N 30°38'34.3" W	719.85	30°14'12.9*(LT)	04°09'06.7"	728.27	372.83	1380.00
PT	917231.237	1846083.082							
LINE			N 45°45'40.8" W	113.09					
POT	917310.137	1846002.057							

EY									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	916588.118	1846456.377							
LINE			N 80°56'35.3" E	33.66					
PC	916593.416	1846489.618							
CURVE			N 85°40'00.2" E	53.16	09°26'49.9*(RT)	17°45'00.0"	53.22	26.67	322.79
PT	916597.433	1846542.629							
LINE			S 89°36'34.8" E	329.39					
POT	916595.189	1846872.011							

EY1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	917599.171	1846556.885							
LINE			S 02°03'10.4" W	875.58					
PC	916724.150	1846525.520							
CURVE			S 05°26'07.9" W	96.59	06°45'54.9*(RT)	07°00'00.0"	96.65	48.38	818.51
PT	916627.994	1846516.370							
LINE			S 08°49'05.4" W	32.24					
POT	916596.135	1846511.428							

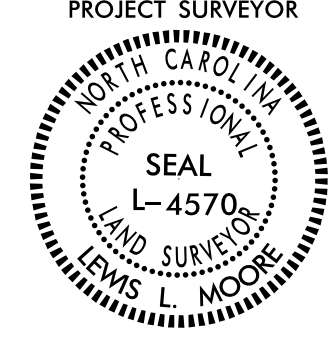
NOTES:

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.

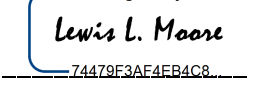
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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5707H	RW02D-1
Location and Surveys	
LOCATION & SURVEYS UNIT	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Lewis L. Moore, PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 10th day of January, 2022
 DocuSigned by:
 L-4570
 Professional Land Surveyor L-4570

EL

TYPE	STATION	NORTH	EAST
POT	10+00.00	915990.0391	1846498.9341
PC	11+76.90	916166.8661	1846504.0720
PCC	16+26.90	916611.9052	1846449.9795
PT	23+55.17	917231.2369	1846083.0820
POT	24+68.27	917310.1370	1846002.0567

EY

TYPE	STATION	NORTH	EAST
POT	10+00.00	916588.1179	1846456.3773
PC	10+33.66	916593.4165	1846489.6175
PT	10+86.88	916597.4334	1846542.6290
POT	14+16.27	916595.1894	1846872.0112

EY1

TYPE	STATION	NORTH	EAST
POT	10+00.00	917599.1709	1846556.8850
PC	18+75.58	916724.1505	1846525.5198
PT	19+72.23	916627.9944	1846516.3702
POT	20+04.47	916596.1353	1846511.4278


REVISIONS

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 LLMoore

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT 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.

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5707H	RW03E-1
Location and Surveys	
LOCATION & SURVEYS UNIT	
PROJECT SURVEYOR	
DocuSigned by: <i>Lewis L. Moore</i> <small>74479F3AF4EB4C8...</small> 01/10/2022	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

**PROJECT REVISED AND AS A RESULT NO RIGHT OF WAY
OR PERMANENT EASEMENT POINTS WERE REQUIRED.**

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. NO RIGHT OF WAY MONUMENTATION NEEDED / REQUIRED FOR THIS PROJECT.

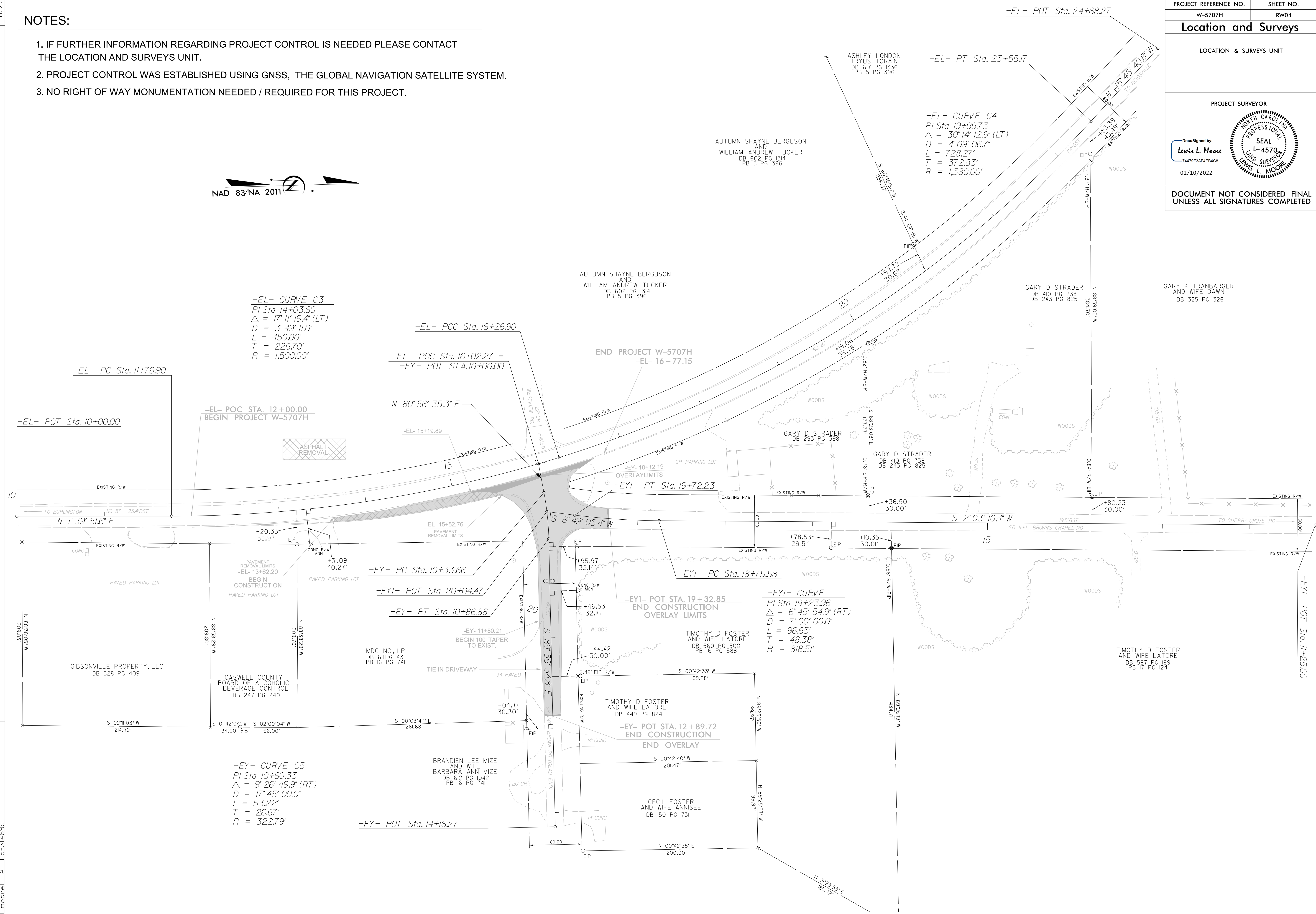
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. NO RIGHT OF WAY MONUMENTATION NEEDED / REQUIRED FOR THIS PROJECT.



PROJECT REFERENCE NO.	SHEET NO.
W-5707H	RW04
Location and Surveys	
LOCATION & SURVEYS UNIT	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W - 5707H	PMP-1	PMP-2

PAVEMENT MARKING PLAN
CASWELL COUNTY

LOCATION: NC 87 AT SR 1144 (BROWNS CHAPEL ROAD) AND SR 1142 (BROWN ROAD)

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN ROADWAY STANDARD DRAWINGS - DATED JULY 2006 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, TWO WAY ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS

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 AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL	THERMOPLASTIC	PERMANENT RAISED REFLECTIVE PAVEMENT MARKER

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

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKING LINES.

INDEX

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

PLAN PREPARED BY: N.C.D.O.T. DDC UNIT

CHAD REIMAKOSKI DDC ENGINEER
NISHANT M. SHAH PROJECT DESIGN ENGINEER

PAVEMENT MARKING & MARKER SCHEDULE

TIP PROJECT # W-5707H

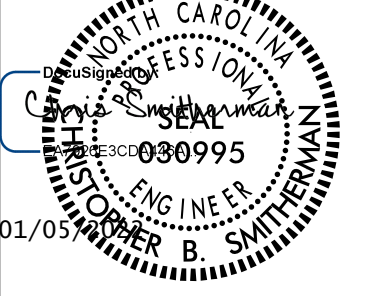
FINAL PAVEMENT MARKINGS & MARKERS

PAY ITEM

SYMBOL	DESCRIPTION	QUANTITY	UNIT	TOTAL
	THERMOPLASTIC (4", 90 MILS)			
T13	(4") YELLOW DOUBLE CENTER	800	LF	
T1	(4") WHITE EDGELINE	875	LF	
				TOTAL (4", 90 MILS) 1675 LF
	THERMOPLASTIC(6", 90 MILS)			
T20	(6") WHITE EDGELINE	376	LF	
T24	(6") 2 FT. - 6 FT./SP WHITE MINISKIP	26	LF	
				TOTAL (6", 90 MILS) 402 LF
	THERMOPLASTIC (8", 90 MILS)			
T41	(8") WHITE DIAGONAL	120	LF	
T42	(8") YELLOW DIAGONAL	40	LF	
				TOTAL (8", 90 MILS) 160 LF
	THERMOPLASTIC (24",90 MILS)			
T61	WHITE STOPBAR	40	LF	
				TOTAL (24", 90 MILS) 40 LF

PROJECT: W - 5707H

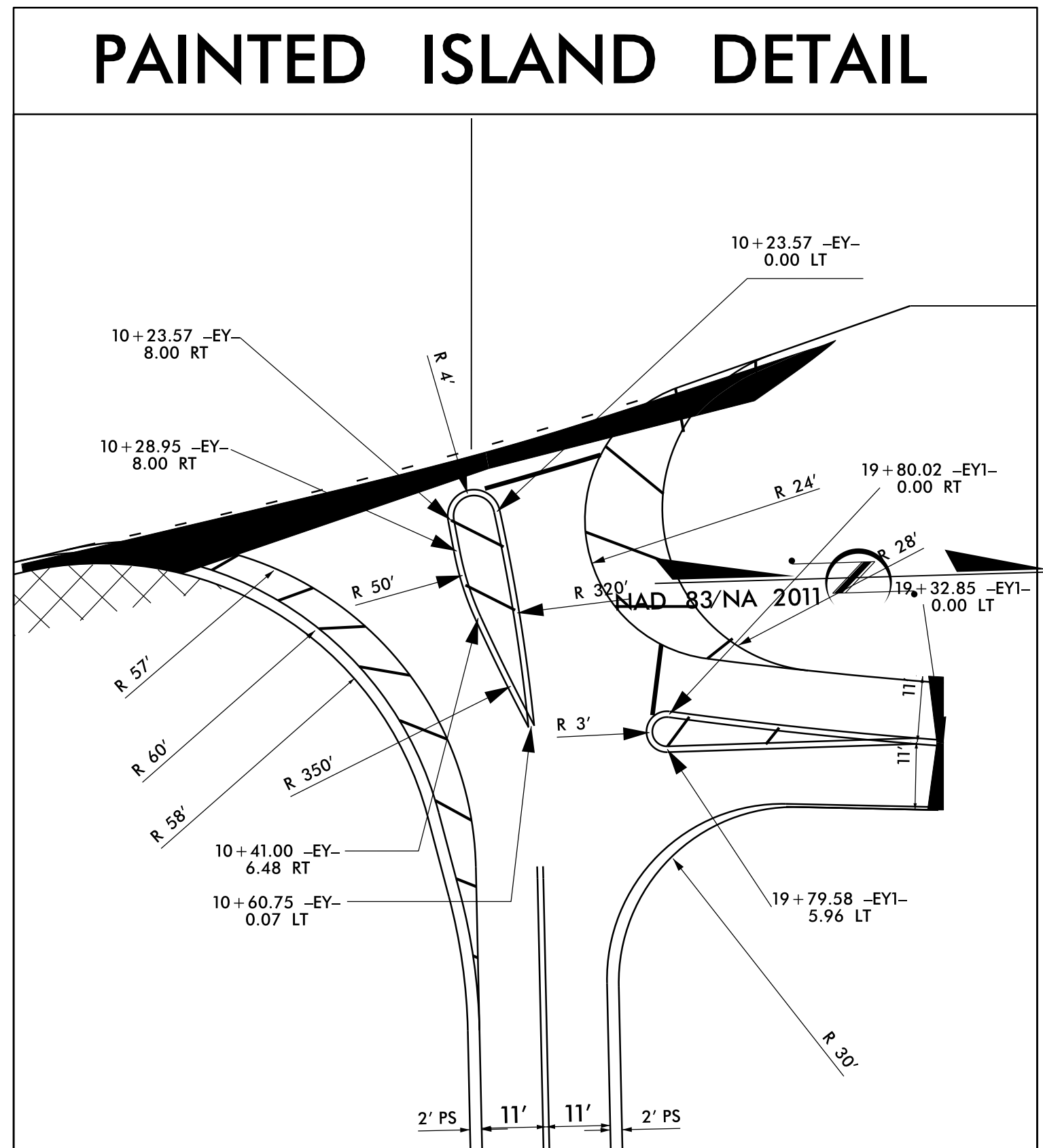
CONTRACT: DG00562


PROJECT REFERENCE NO. W-5707H	SHEET NO. PMP-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/99

REVISIONS

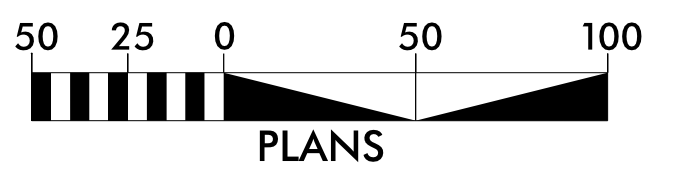
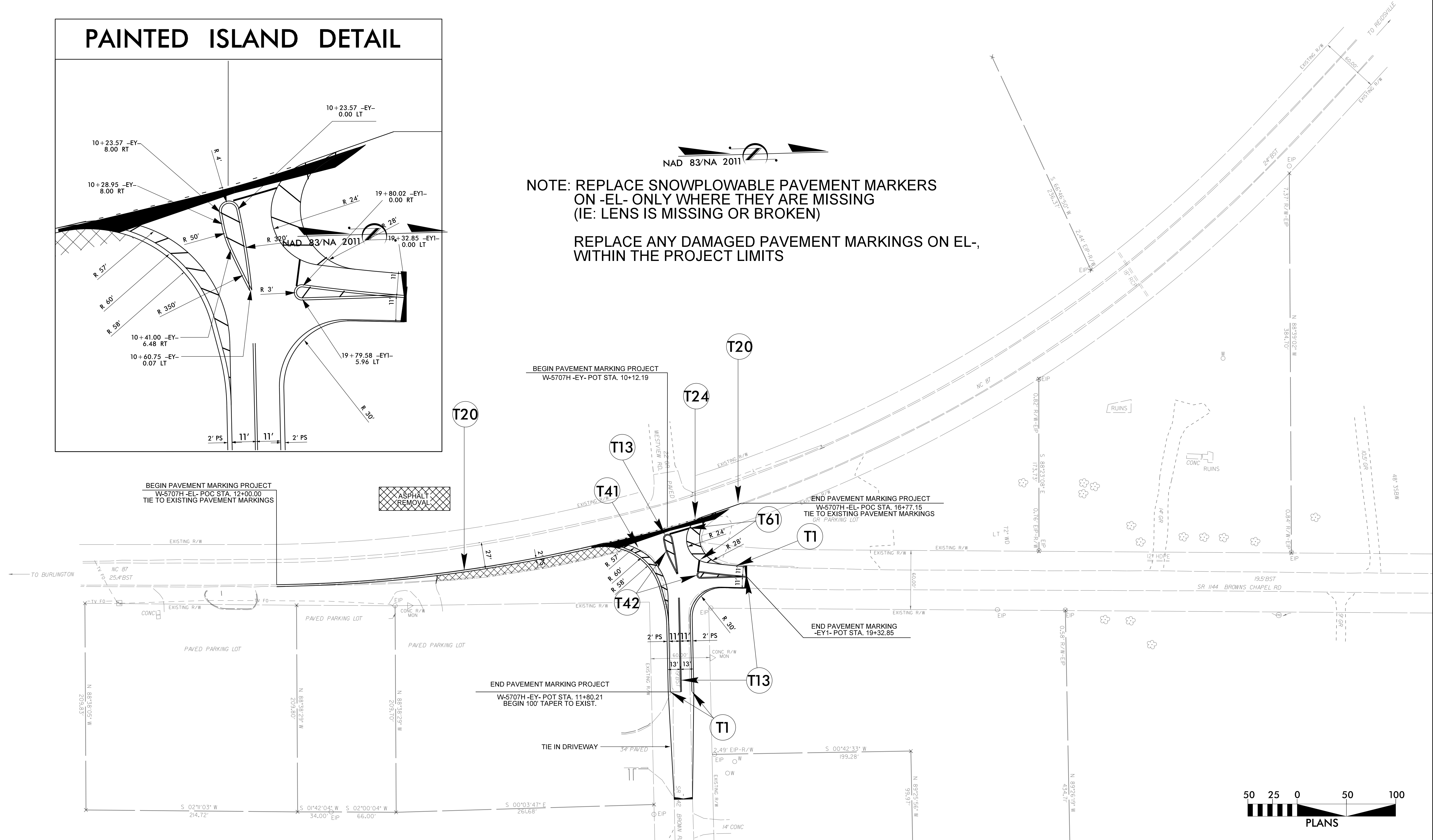
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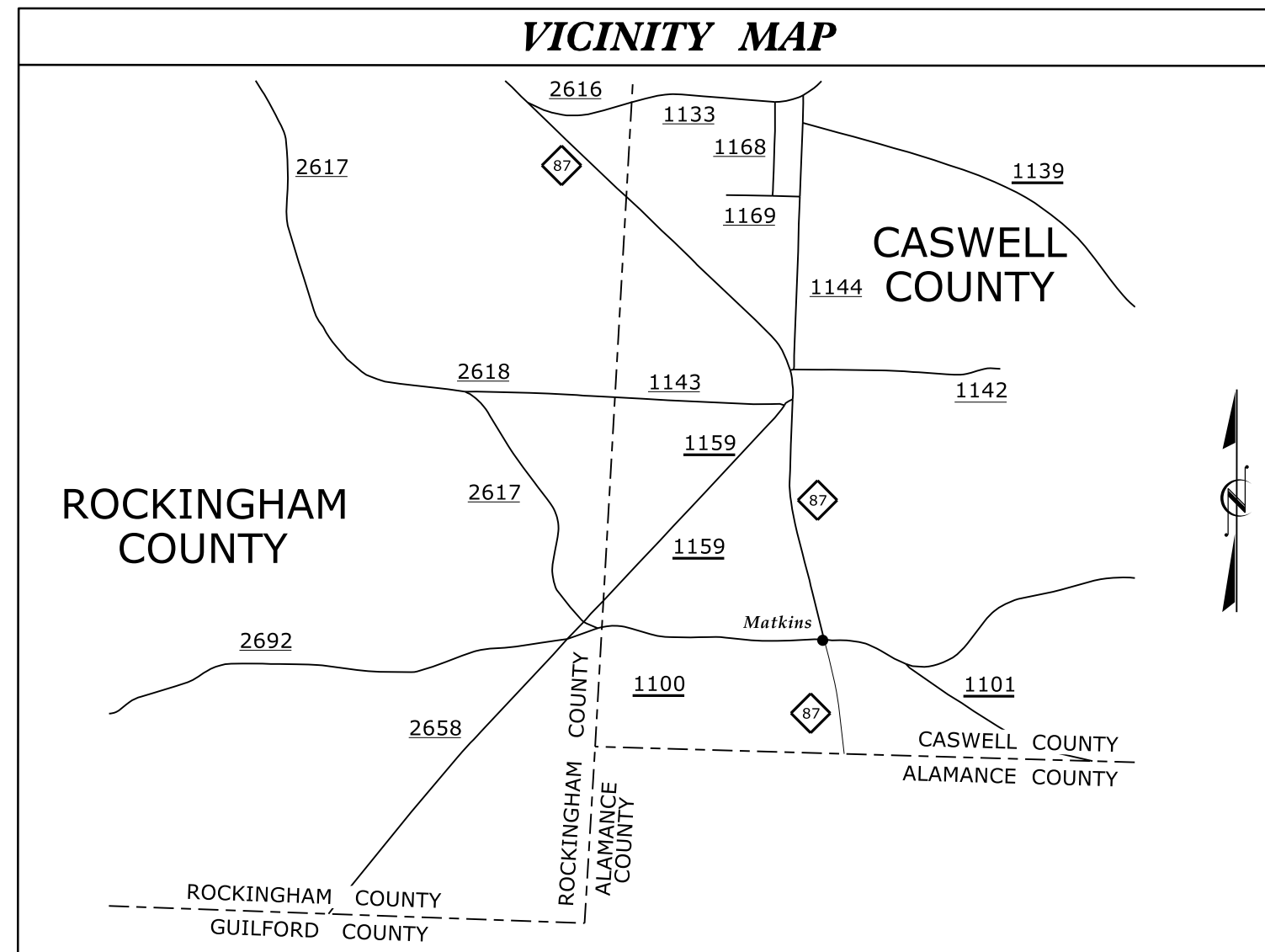

 NAD 83/NA 2011

**NOTE: REPLACE SNOWPLOWABLE PAVEMENT MARKERS
ON -EL- ONLY WHERE THEY ARE MISSING
(IE: LENS IS MISSING OR BROKEN)**

**REPLACE ANY DAMAGED PAVEMENT MARKINGS ON EL-,
WITHIN THE PROJECT LIMITS**

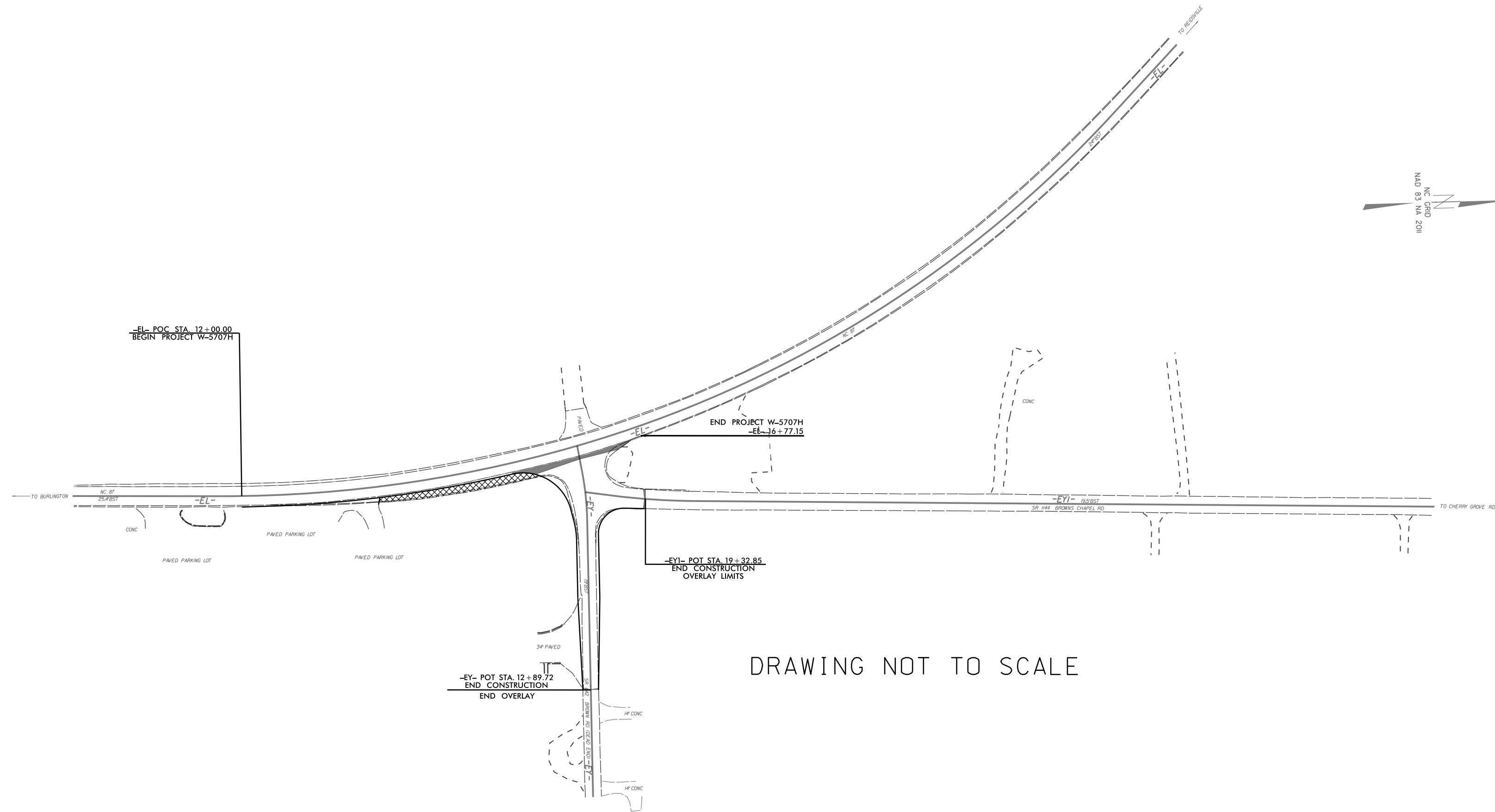


TIP PROJECT: W-5707H



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

CASWELL COUNTY
LOCATION: NC 87 AT SR 1144 (BROWNS CHAPEL ROAD)
AND SR 1142 (BROWN ROAD) - SAFETY IMPROVEMENTS
TYPE OF WORK: GRADING, DRAINAGE, PAVING, EROSION CONTROL



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5707H	EC-1	EC-2
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44853.1.8	HSIP-0087(040)	P.E.	
44853.2.8	HSIP-0087(040)	ROW	
44853.2.8	HSIP-0087(040)	UTILITIES	
44853.3.8	HSIP-0087(040)	CONSTRUCTION	

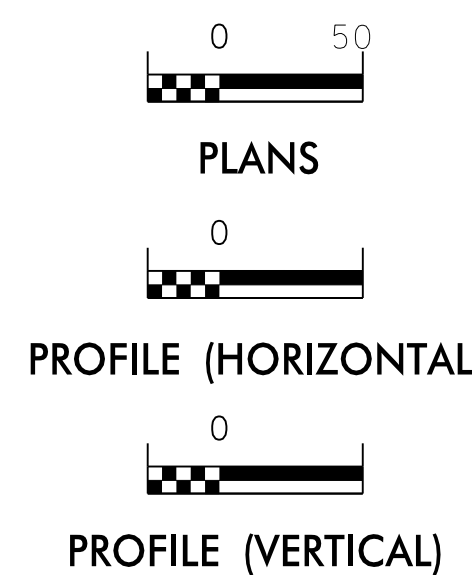
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
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	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▨
	Tiered Skimmer Basin	▨
	Infiltration Basin	▨

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

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

GRAPHIC SCALE



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 AUGUST 3, 2011
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2018 STANDARD SPECIFICATIONS

Designed by:
NISHANT M. SHAH **4144**
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 2012 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 J
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 J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
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 J
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	



PROJECT REFERENCE NO. W-5707H		SHEET NO. EC-2	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

8/17/99

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