

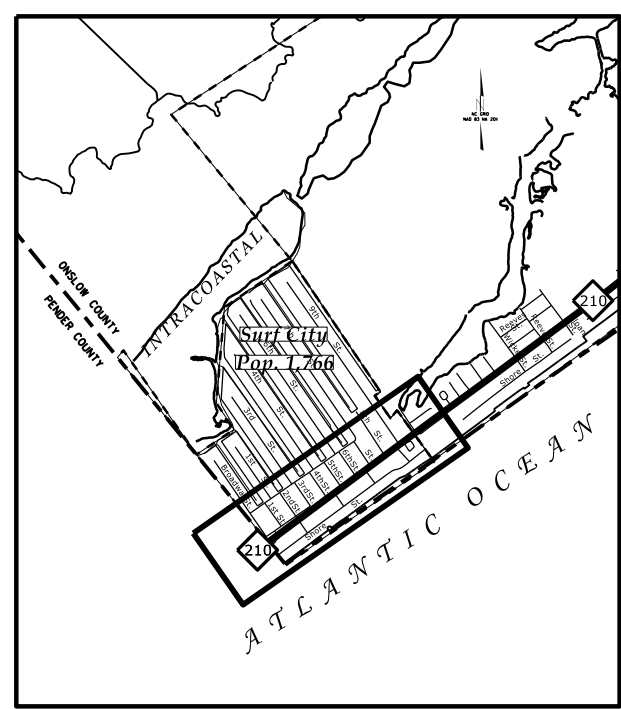
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-3314A	1	18
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33935.1.FD1	STPEB-0334(I)		

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

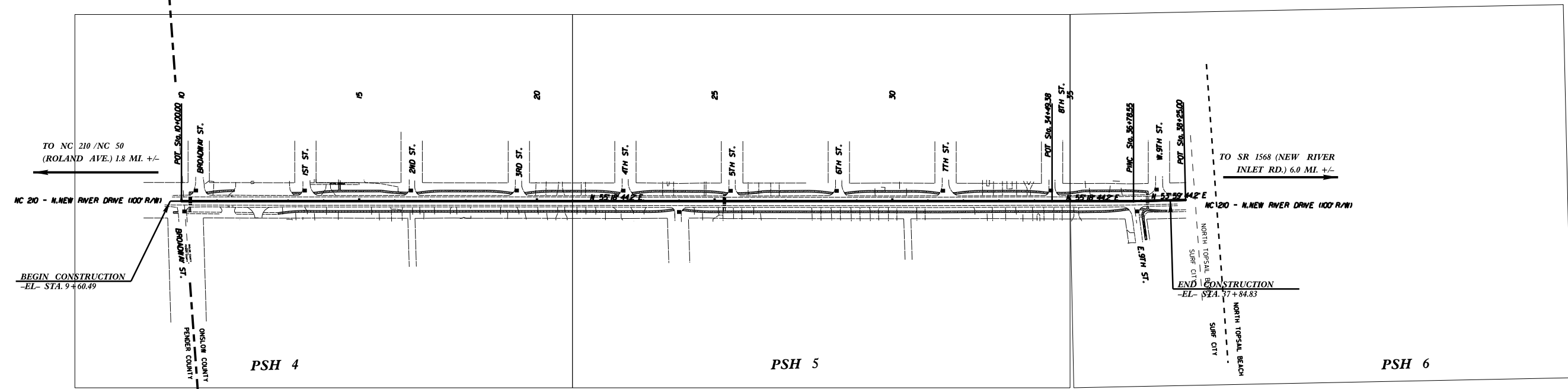
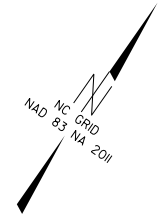
**PENDER AND
ONSLOW COUNTY**

**LOCATION: NC 210 (N. NEW RIVER DR.) FROM BROADWAY ST. (NON-SYSTEM)
TO W. 9TH ST. (NON-SYSTEM) IN THE TOWN OF SURF CITY.**

**TYPE OF WORK: INSTALL CONCRETE SIDEWALK, TRUNCATED DOMES,
AND HIGH VISIBILITY CROSSWALKS**



See Sheet 1-A For Index of Sheets



NOT TO SCALE

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 jwgiles AT D3CAD261685

TIP PROJECT: EB-3314A

CONTRACT: DC00068

GRAPHIC SCALES

0 50 100
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

DESIGN DATA

N/A

PROJECT LENGTH

-EL- (NC 210) = 0.54 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: _____

LETTING DATE:
APRIL 17, 2014

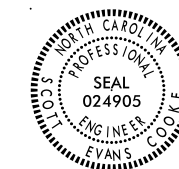
SCOTT E. COOKE, PE
PROJECT ENGINEER

JON W. GILES JR.
PROJECT DESIGN TECHNICIAN

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION DESIGN ENGINEER



DIVISION DESIGN ENGINEER

GENERAL NOTES: 2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 07-30-2012

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

DRIVEWAYS:
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

UTILITIES:
NO SUBSURFACE UTILITY INVESTIGATIONS HAVE BEEN PERFORMED. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS (EXCLUDING WATER AND SEWER).

UTILITY OWNERS ON THIS PROJECT ARE:
ELECTRIC - JONES ONSLOW (TOMMY PRICHARD, 910-577-6318)
TELEPHONE - CENTURY LINK (ANTHONY MELILI, 910-577-9359)
CABLE - CHARTER COMMUNICATIONS (NICK BROWN, 910-329-1775)
SEWER - PLURIS (RANDY HOFFER, 910-455-0722)
WATER - ONWASA (MATT HYPES, 910-937-7525)

SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

EFF. 01-17-2012
REV. 10-30-2012

2012 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, 2012 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
DIVISION 8 - INCIDENTALS	
848.01	Concrete Sidewalk
848.03	Driveway Turnout (Driveway Grades)

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET, ALIGNMENT AND SHEET LAYOUT
1-A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
1-D	ALIGNMENT DESCRIPTION SHEET
2 THRU 2-A	PAVEMENT SCHEDULE, TYPICAL SECTIONS AND PROJECT DETAILS
4 THRU 6	PLAN SHEETS
PM-1 THRU PM-4	PAVEMENT MARKING LAYOUT SHEET & PAVEMENT MARKING PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS

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12/05/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. EB-3314A
SHEET NO. 1-B

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ IP
Property Corner	-----
Property Monument	□ EDM
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	----- MLB
Proposed Wetland Boundary	----- MLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ?

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	----- FLM
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	----- RW
Proposed Right of Way Line with Iron Pin and Cap Marker	----- RW
Proposed Right of Way Line with Concrete or Granite RW Marker	----- RW
Proposed Control of Access Line with Concrete C/A Marker	----- C/A
Existing Control of Access	----- C/A
Proposed Control of Access	----- C/A
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
Proposed Permanent Easement with Iron Pin and Cap Marker	----- ◆

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	○ S
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ P
Power Line Tower	□ X
Power Transformer	□ X
U/G Power Cable Hand Hole	□
H-Frame Pole	●
Recorded U/G Power Line	----- P
Designated U/G Power Line (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○ T
Telephone Booth	□ T
Telephone Pedestal	□ T
Telephone Cell Tower	☼
U/G Telephone Cable Hand Hole	□
Recorded U/G Telephone Cable	----- T
Designated U/G Telephone Cable (S.U.E.*)	----- T
Recorded U/G Telephone Conduit	----- TC
Designated U/G Telephone Conduit (S.U.E.*)	----- TC
Recorded U/G Fiber Optics Cable	----- T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	----- T FO

WATER:

Water Manhole	○ W
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

TV Satellite Dish	☼
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□
Recorded U/G TV Cable	----- TV
Designated U/G TV Cable (S.U.E.*)	----- TV
Recorded U/G Fiber Optic Cable	----- TV FO
Designated U/G Fiber Optic Cable (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	----- G
Designated U/G Gas Line (S.U.E.*)	----- 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
Recorded SS Forced Main Line	----- FSS
Designated SS Forced Main Line (S.U.E.*)	----- FSS

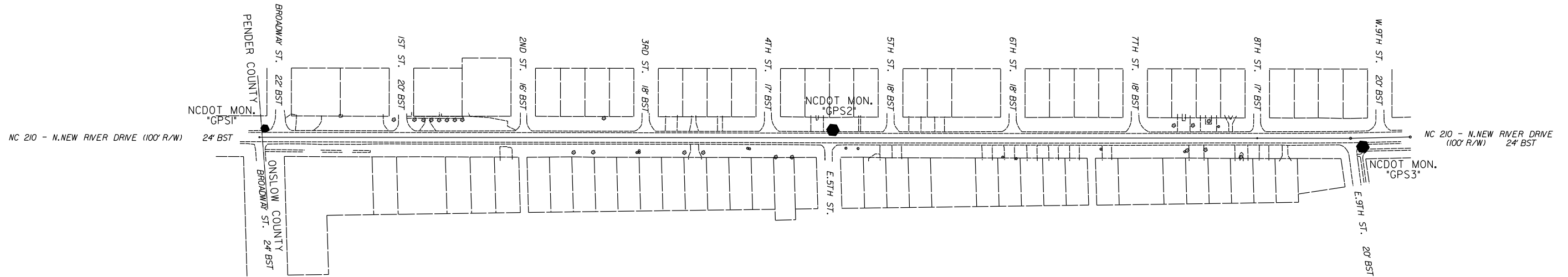
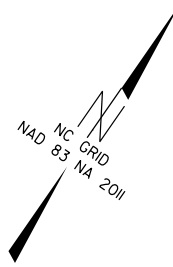
MISCELLANEOUS:

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

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
EB-3314A	1-C
Location and Surveys	

SURVEY CONTROL SHEET EB-3314A



BL	POINT	DESC.	NORTH	EAST	ELEVATION	EL STATION	OFFSET
	GPS1	GPS CAP & REBAR	255212.4280	2446373.2960	3.63	10+13.60	21.56 LT
	GPS2	GPS CAP & REBAR	256003.8230	2447521.1890	3.48	24+07.85	19.03 LT
	GPS3	GPS CAP & REBAR	256711.2540	2448613.4970	4.10	37+08.14	21.59 RT

NOTE: DRAWING NOT TO SCALE

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ALIGNMENT DESCRIPTION

Beginning chain EL description

=====

Point PM5 N 255,186.9590 E 2,446,374.3890 Sta 10+00.00

Course from PM5 to PM245 N 55° 18' 44.17" E Dist 2,449.3754

Point PM245 N 256,580.9070 E 2,448,388.4270 Sta 34+49.38

Course from PM245 to PM1300 N 55° 18' 44.17" E Dist 229.1714

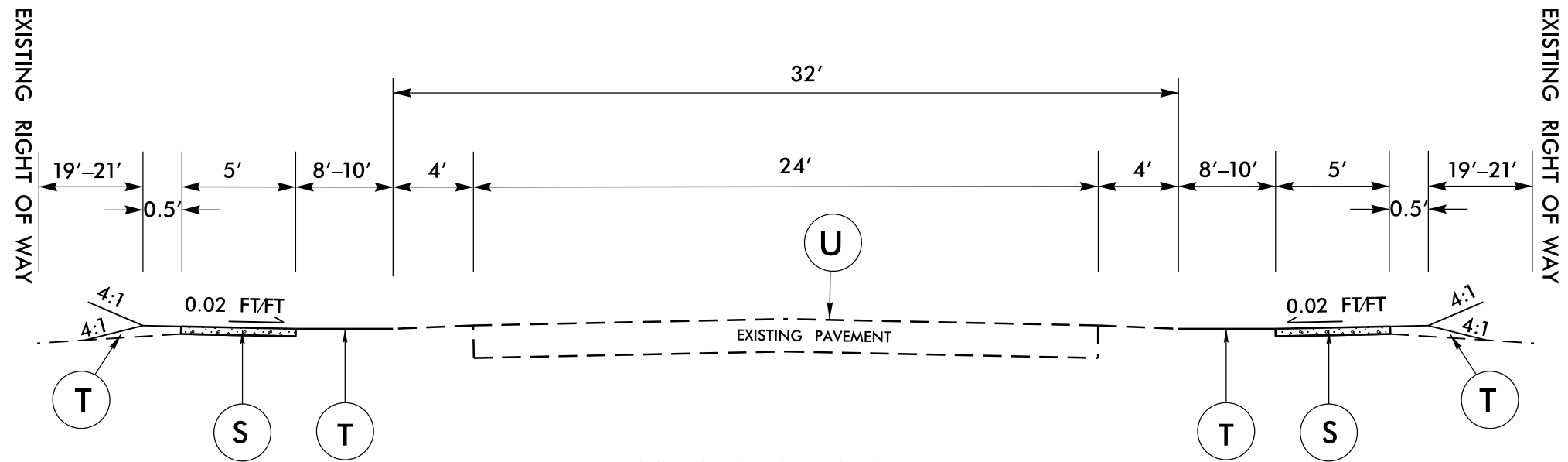
Point PM1300 N 256,711.3292 E 2,448,576.8668 Sta 36+78.55

Course from PM1300 to PM1301 N 53° 59' 44.17" E Dist 146.4531

Point PM1301 N 256,797.4213 E 2,448,695.3432 Sta 38+25.00

=====

Ending chain EL description



TYPICAL SECTION NO. 1

NC 210 (N. NEW RIVER DR)
 -EL- STA. 10+00.00 TO 38+25.00

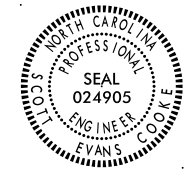
PAVEMENT SCHEDULE	
S	PROPOSED 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

NOT TO SCALE

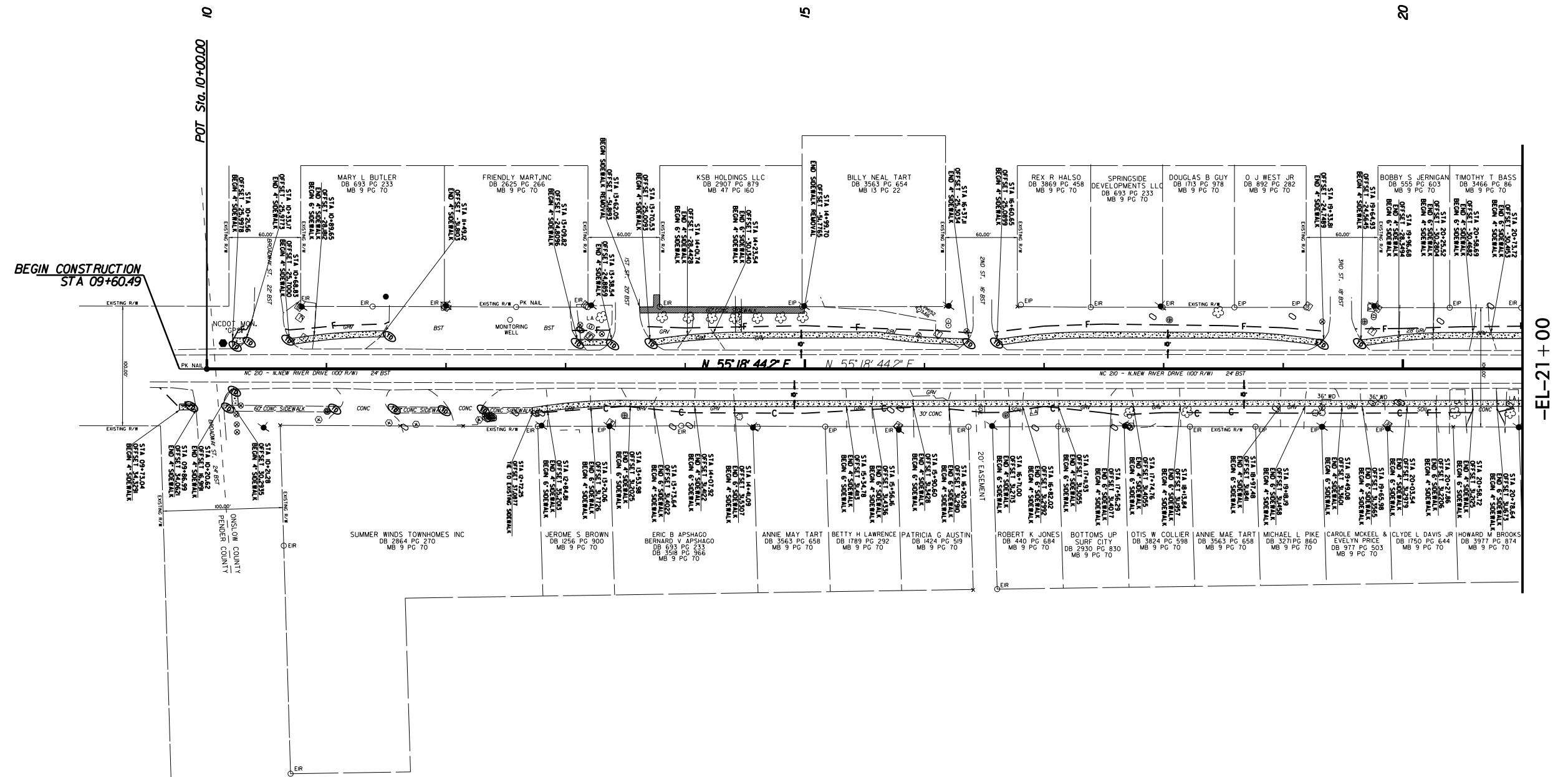
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (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.



DIVISION DESIGN ENGINEER



BEGIN CONSTRUCTION
STA 09+60.49

POT Sta. 10+00.00

LEGEND	
	DETECTABLE WARNINGS (TRUNCATED DOMES)
	REMOVE EXISTING SIDEWALK
	PROPOSED SIDEWALK

NOTE:
SIDEWALK RADII VARIES 450'-550'.
ADJUST TO MEET FIELD CONDITIONS.

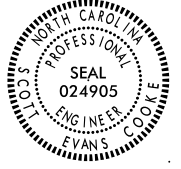
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Scale 1" = 50' (Full Size Sheet, 22.34)



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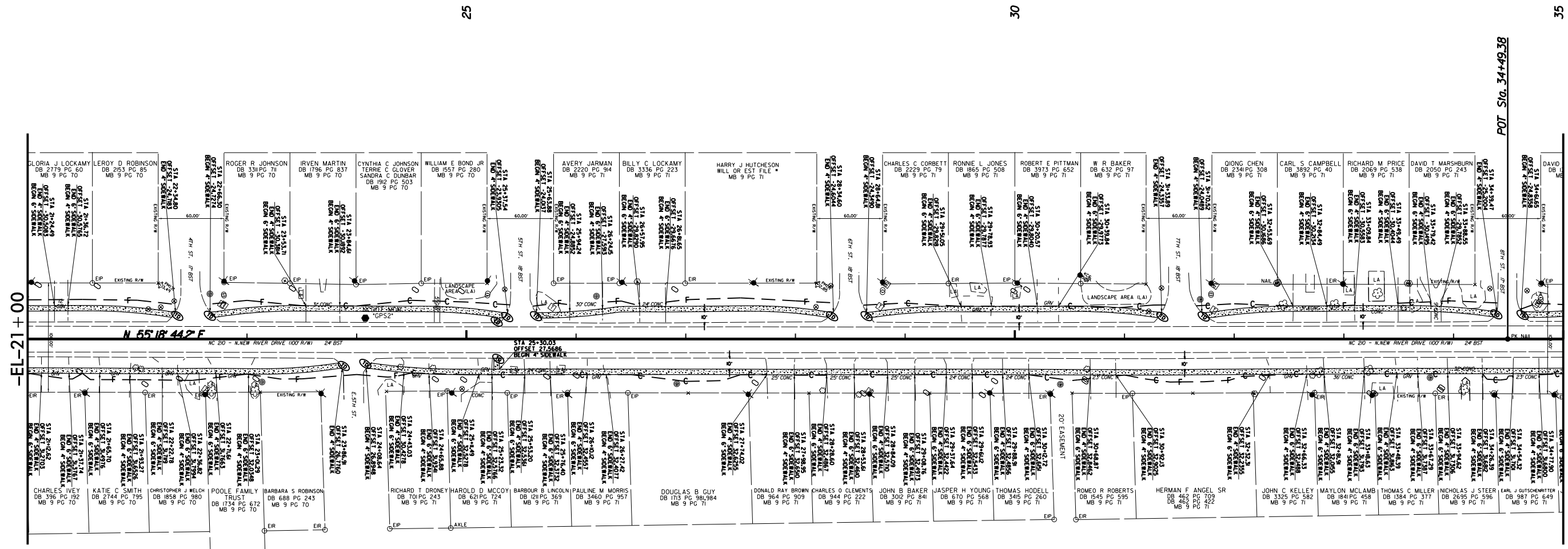
DIVISION DESIGN ENGINEER



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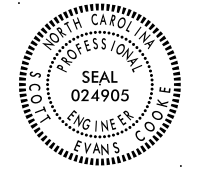
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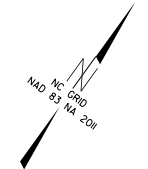


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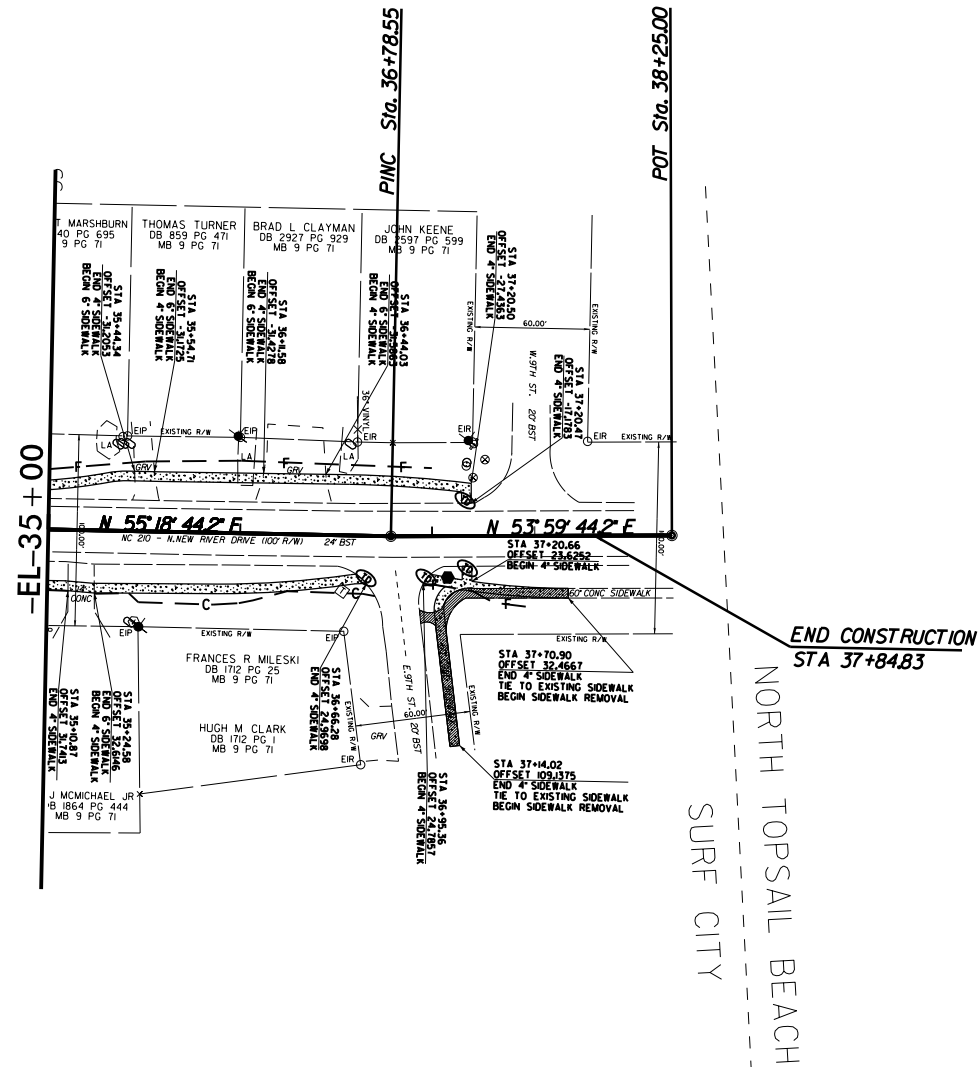




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END CONSTRUCTION
STA 37+84.83
 NORTH TOPSAIL BEACH
 SURF CITY

Scale 1" = 100' (Half Size Sheet, 11x17)
 Scale 1" = 50' (Full Size Sheet, 22x34)



PAVEMENT MARKING LAYOUT

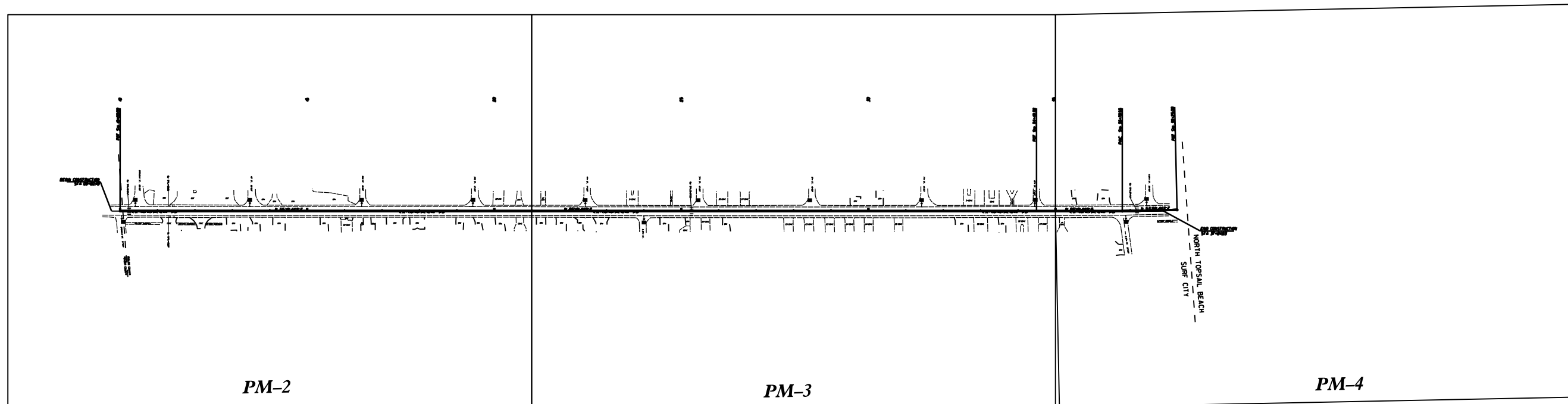
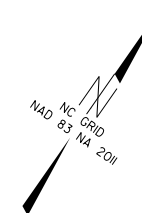


DIVISION DESIGN ENGINEER

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 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
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES



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.

PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>
ALL ROADS	THERMOPLASTIC

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

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS.

NOT TO SCALE

REVISIONS

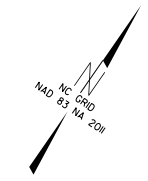
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PLAN

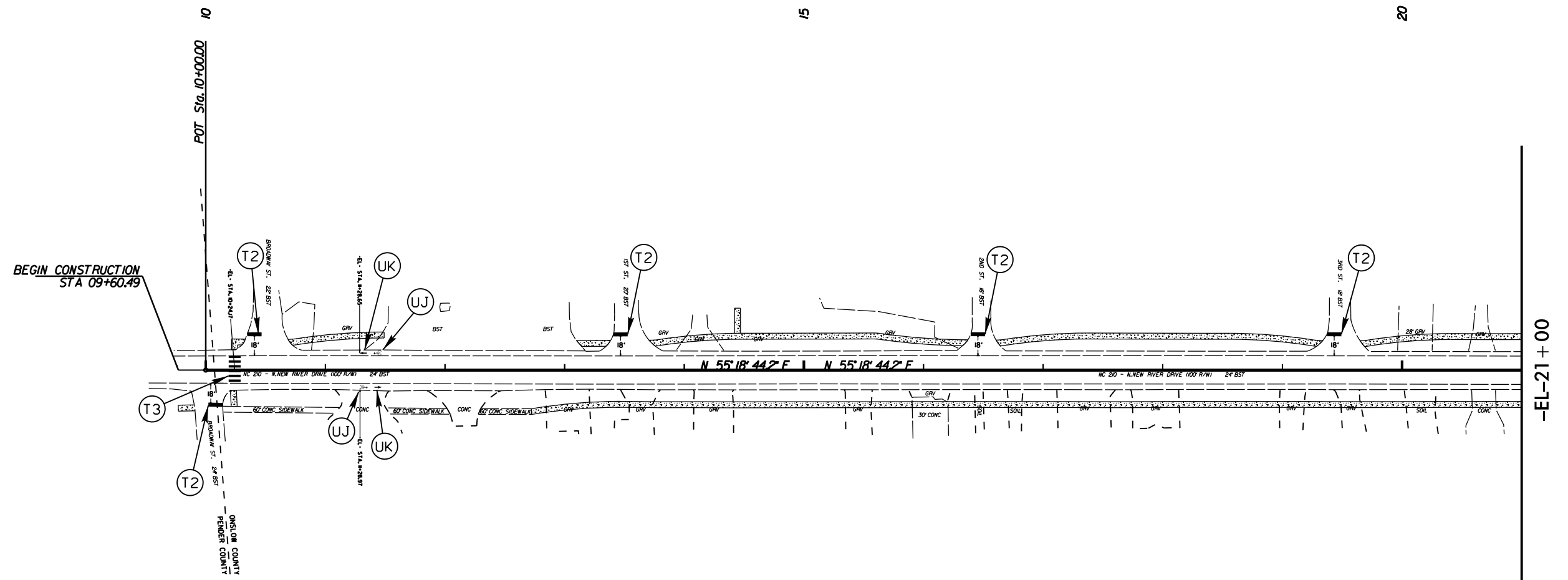


DIVISION DESIGN ENGINEER



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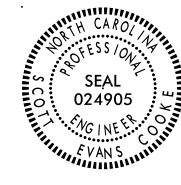
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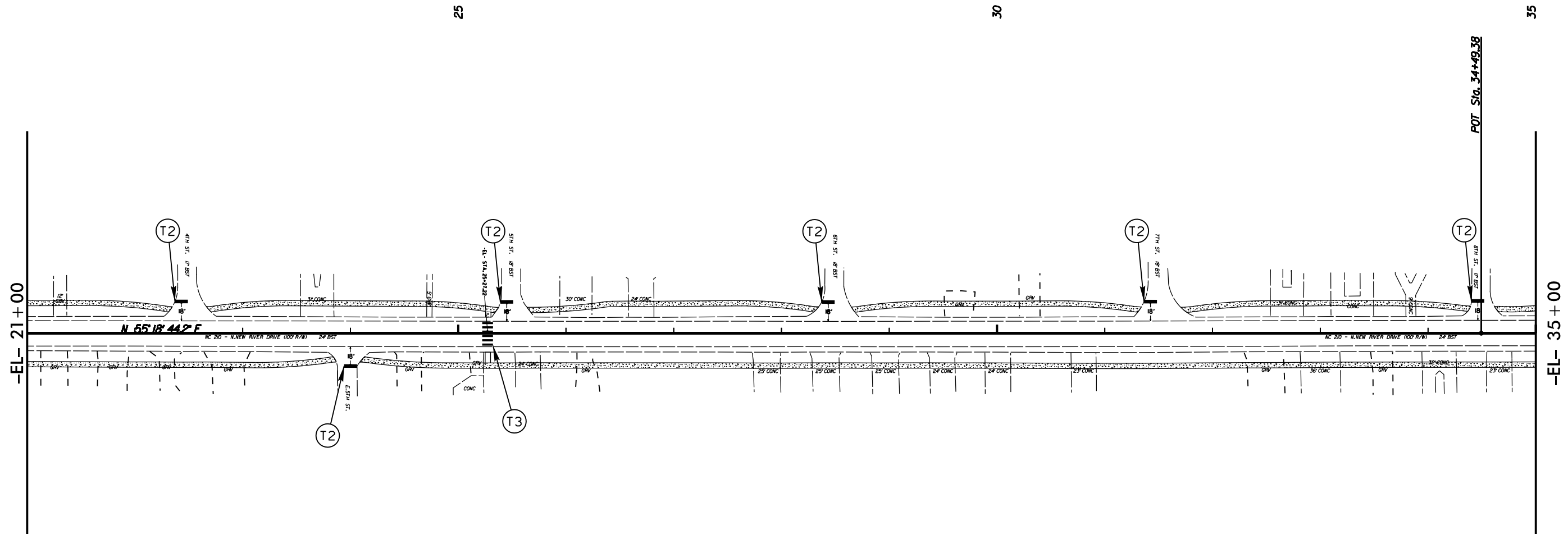
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 Scale 1" = 50' (Full Size Sheet, 22x34)

PAVEMENT MARKING LEGEND	
T2	= WHITE STOPBAR (24", 120 MIL)
T3	= WHITE CROSSWALK LINE (24", 120 MIL)
UJ	= BICYCLE SYMBOL (90 MIL)
UK	= BICYCLE STRAIGHT ARROW (90 MIL)

-EL-21+00



DIVISION DESIGN ENGINEER



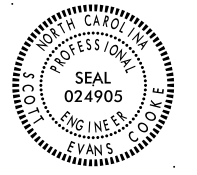
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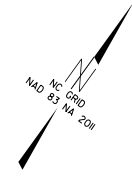
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T3	= WHITE CROSSWALK LINE (24", 120 MIL)
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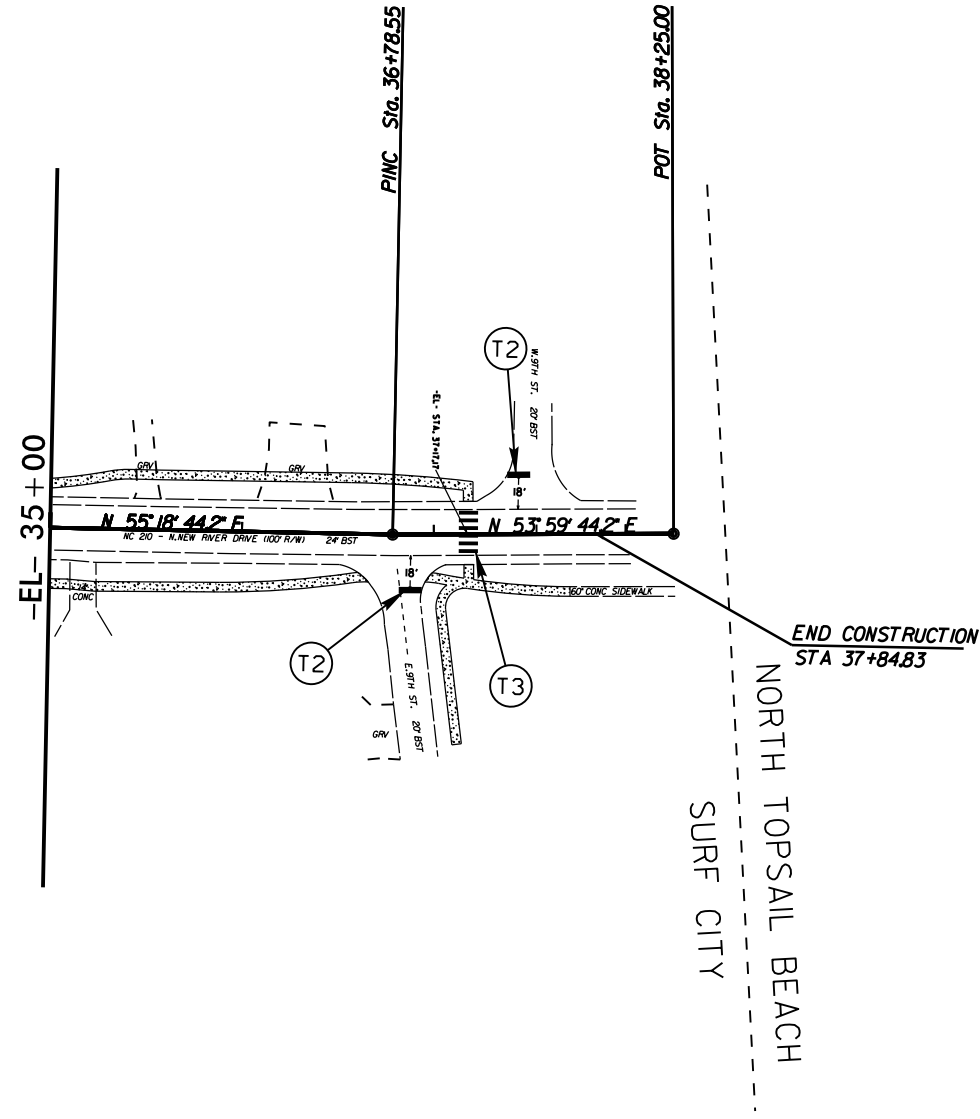


DIVISION DESIGN ENGINEER



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8/17/99



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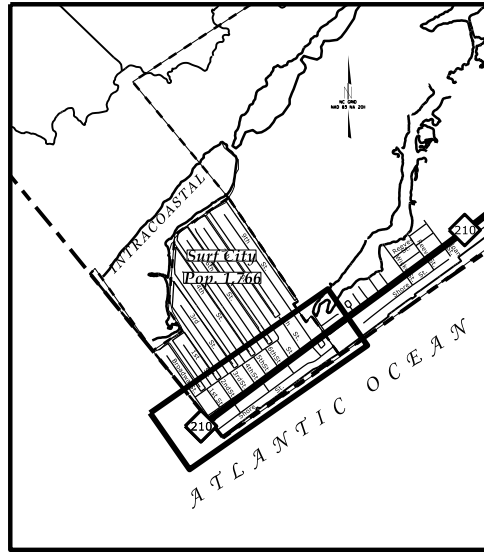
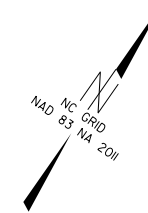
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T3	= WHITE CROSSWALK LINE (24", 120 MIL)
UJ	= BICYCLE SYMBOL (90 MIL)
UK	= BICYCLE STRAIGHT ARROW (90 MIL)

09/18/2013

COUNTY: PENDER / ONSLOW PROJECT: EB-3314A

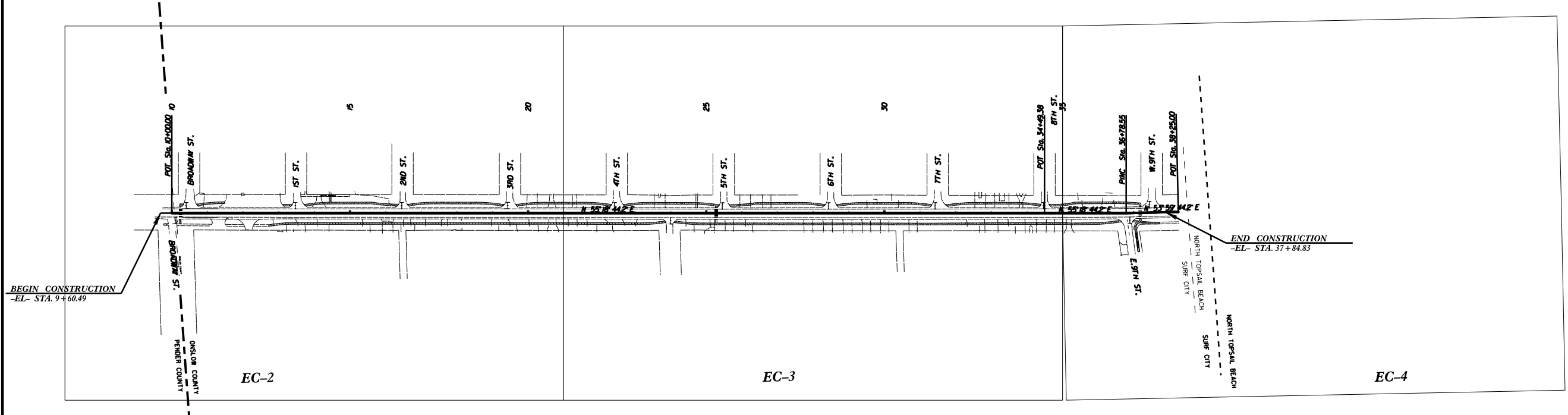
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
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STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33935.1.FD1	STPEB-0334(1)		



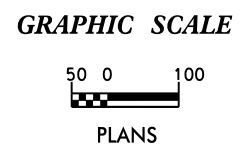
EROSION AND SEDIMENT CONTROL MEASURES

Sta. #	Description	Symbol	Sta. #	Description	Symbol
1630.03	Temporary Silt Ditch		1634.01	Temporary Rock Sediment Dam Type-A	
1630.05	Temporary Diversion		1634.02	Temporary Rock Sediment Dam Type-B	
1605.01	Temporary Silt Fence		1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1606.01	Special Sediment Control Fence		1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1622.01	Temporary Berms and Slope Drains		1630.04	Stilling Basin	
1630.02	Silt Basin Type B		1630.06	Special Stilling Basin	
1633.01	Temporary Rock Silt Check Type-A		Rock Inlet Sediment Trap:		
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)		1632.01	Type A	
1633.02	Temporary Rock Silt Check Type-B		1632.02	Type B	
	Wattle / Coir Fiber Wattle		1632.03	Type C	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)			Skimmer Basin	
				Tiered Skimmer Basin	
				Infiltration Basin	
				Safety Fence	



SEEDING REQUIREMENTS:
"Slopes left exposed will, within 14 calendar days of completion of any phase of grading, be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion."

NOT TO SCALE



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.

For Reference Please Visit Roadside Environmental:
http://www.ncdot.org/ncdot/operations/ep_dlist.asp?roadside/fields/download

DIVISION 3 DDC UNIT
5501 Barbados Blvd.
Castle Hayne, NC 28429
By: Jon W. Giles, Jr., No. 3387

2012 STANDARD SPECIFICATIONS

APRIL 17, 2014
LETTING DATE:

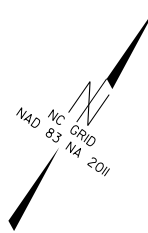
JWG
PROJECT DESIGN TECHNICIAN

Roadway Standard Drawings

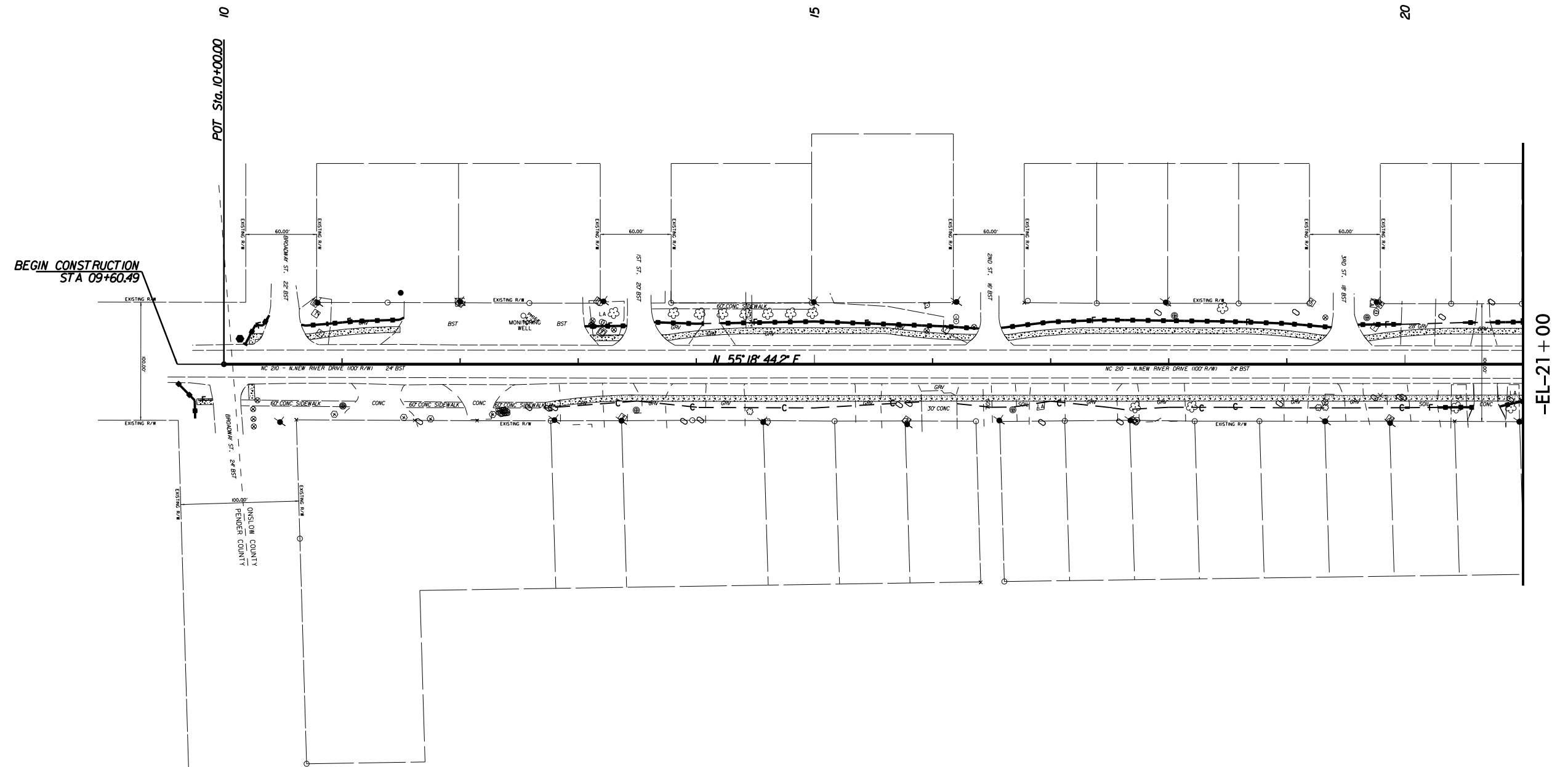
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

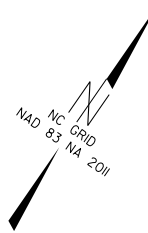
1605.01 Temporary Silt Fence
1631.01 Matting Installation

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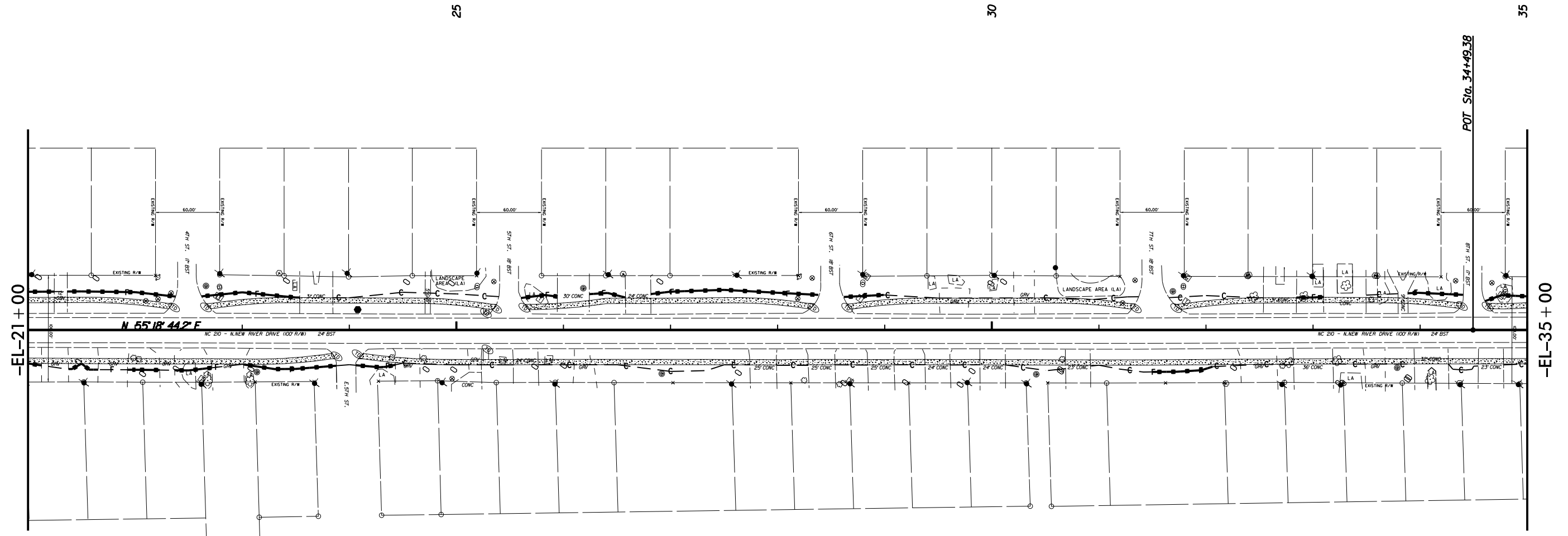


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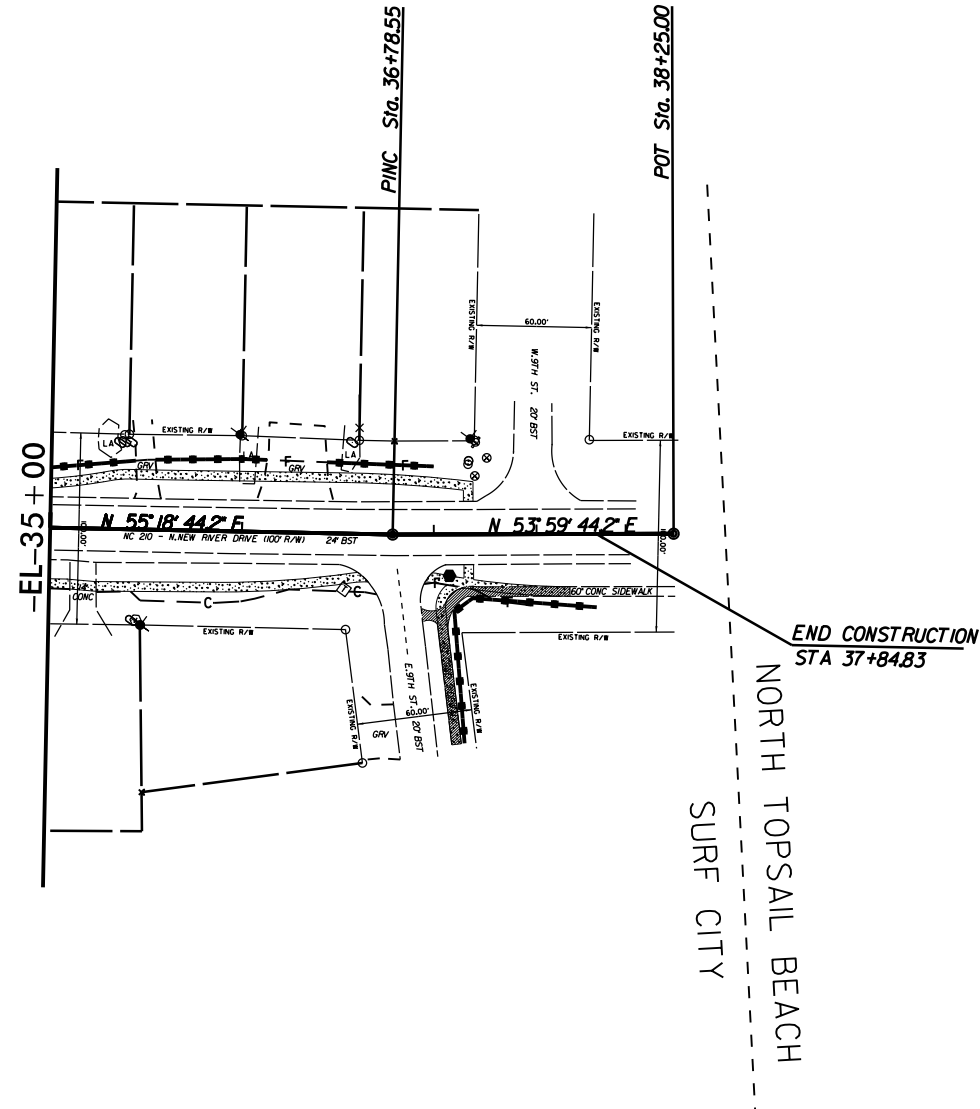




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Scale 1" = 100' (Half Size Sheet, 11x17)
 Scale 1" = 50' (Full Size Sheet, 22x34)



END CONSTRUCTION
STA 37+84.83

NORTH TOPSAIL BEACH

SURF CITY

REVISIONS

24-MAR-2014 10:40
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