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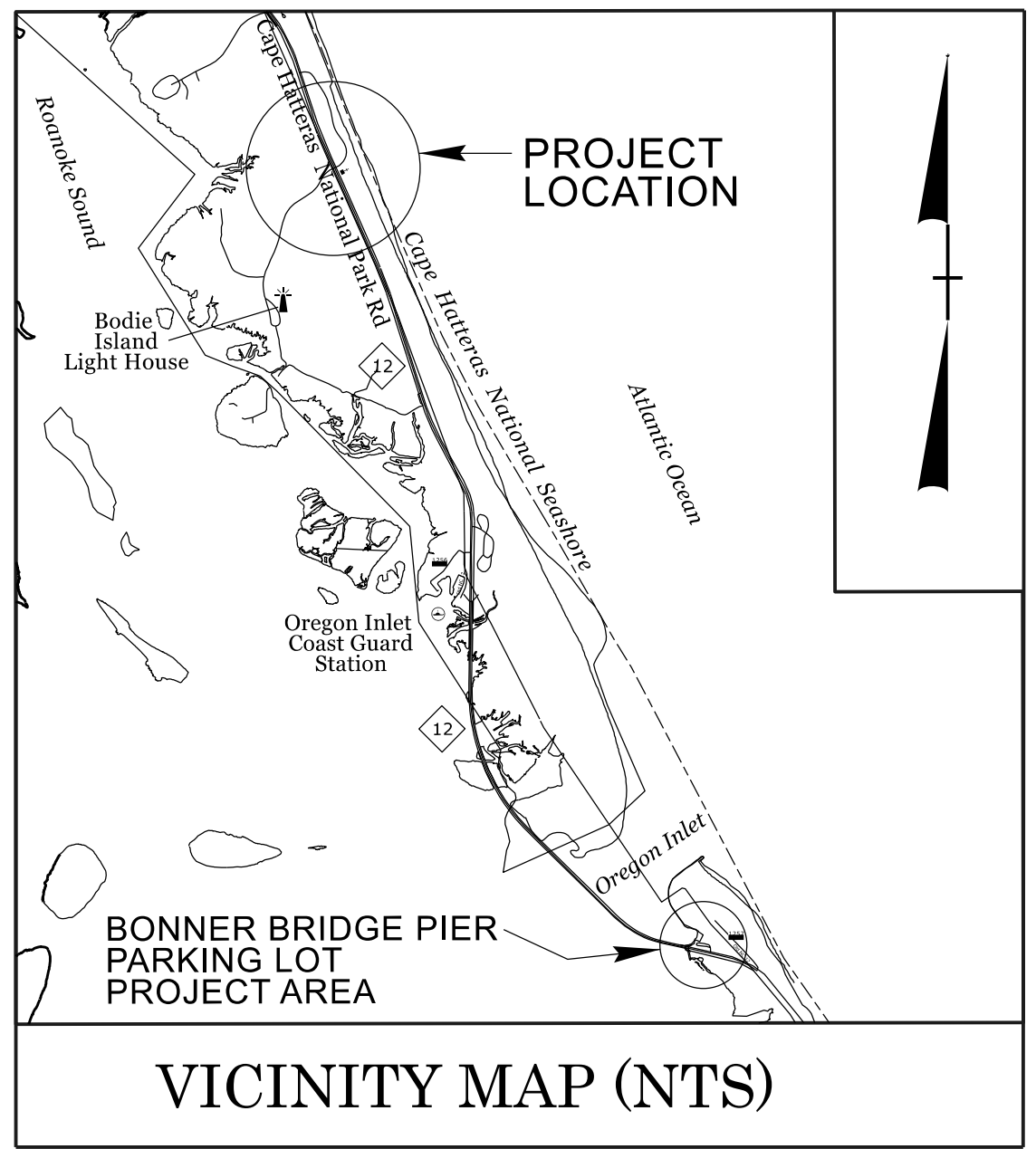
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TIP PROJECT: B-2500C

CONTRACT: DA00522

See Sheet 1A For Index of Sheets

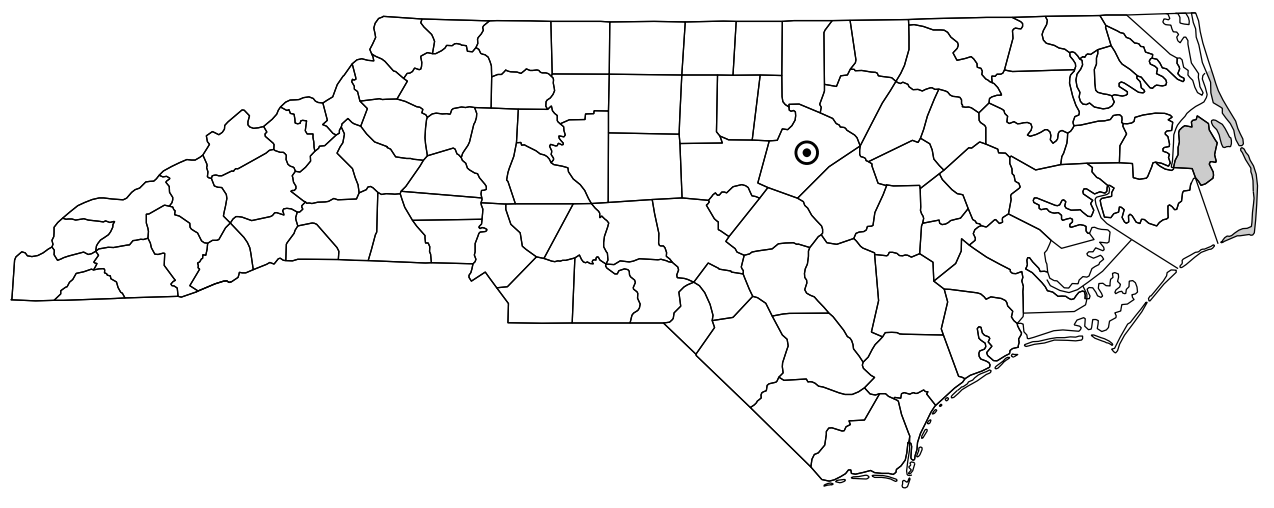
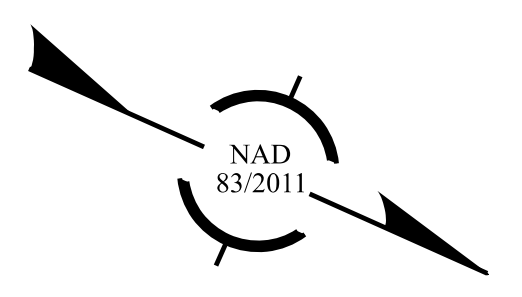


STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

DARE COUNTY

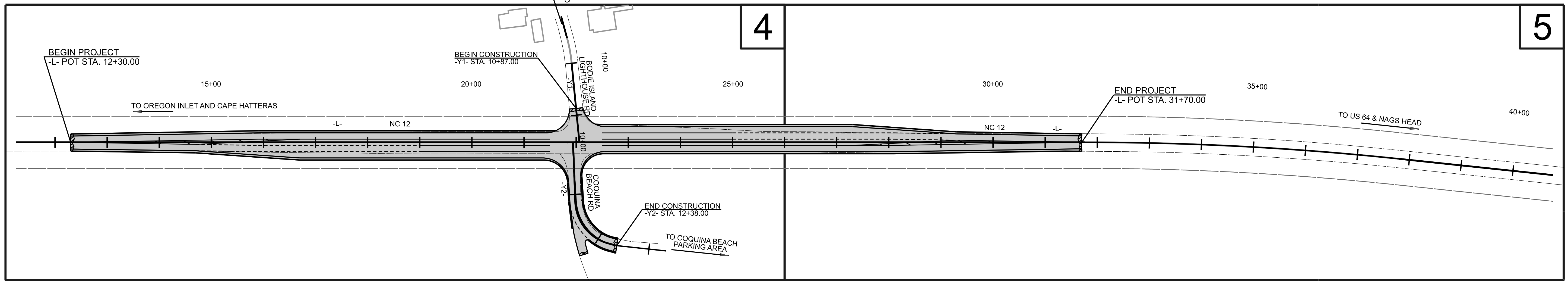
LOCATION: *IMPROVEMENTS TO NC 12 AT INTERSECTION WITH COQUINA BEACH RD. AND BODIE ISLAND LIGHTHOUSE RD., AND RESURFACING PARKING LOT AT BONNER BRIDGE PIER*

TYPE OF WORK: *GRADING, DRAINAGE, AND PAVING*

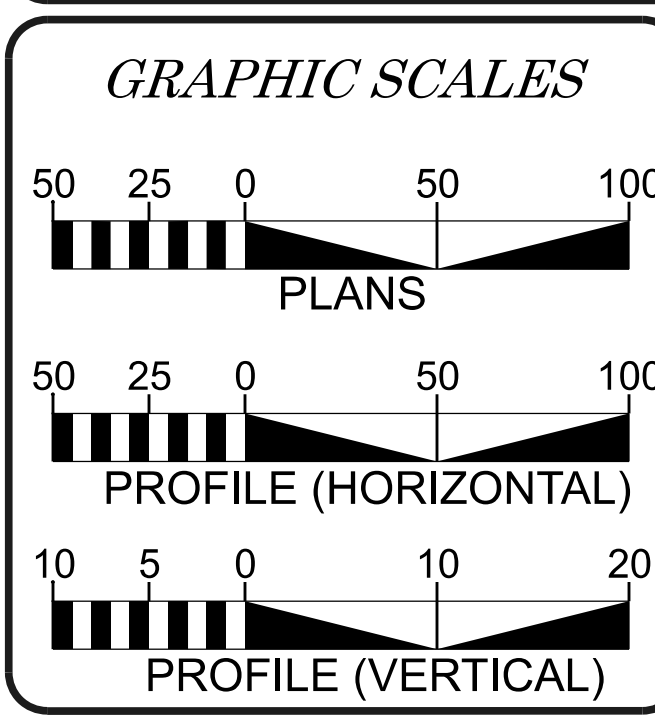


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-2500C	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
32635.1.10		PE	
32635.2.12		ROW	
32635.2.13		UTIL.	
32635.3.11		CONST.	
32635.3.5	BRNHF-0012(063)	CONST.	

Stage 4 Plans (4RD1)
Plans Developed with OpenRoads



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2019 =	5,500
K =	N/A %
D =	N/A %
T =	9 % *
V =	60 MPH
* TTST = 2% DUAL = 7%	
FUNC CLASS = MAJOR COLLECTOR STATEWIDE TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-2500C	= 0.367 MILES
TOTAL LENGTH TIP PROJECT B-2500C	= 0.367 MILES

PLANS PREPARED BY:
wood.
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG. F-1253
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NA

LETTING DATE:
FEBRUARY 16, 2022

PLANS PREPARED FOR:
DIVISION OF HIGHWAYS
DIVISION 1
113 AIRPORT DRIVE, SUITE 100
EDENTON, NC 27932

CHRISTOPHER H. LEE, PE
PROJECT ENGINEER

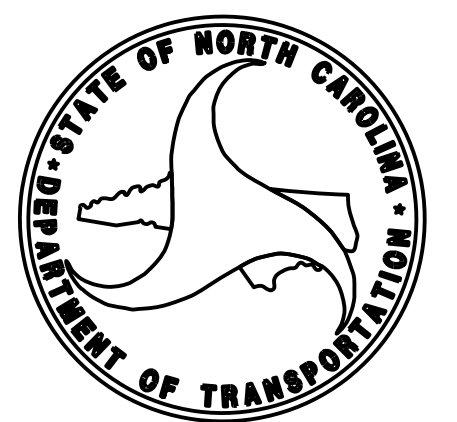
ROHAM R. LAHIJI
NC DOT CONTACT:
DIVISION 1 PROJECT MANAGER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
RW02C-1 THRU RW02C-2	SURVEY CONTROL SHEETS
2A-1	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAILS, AND MILLING DETAIL
2B-1	SHOULDER WEDGE DETAILS
3B-1	ROADWAY SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
4 THRU 5	PLAN AND PROFILE SHEETS
TMP-1 THRU TMP-3	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-6	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UC-1 THRU UC-4	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X1-A	CROSS-SECTION SUMMARY
X-1 THRU X-15	CROSS-SECTIONS
BP-1	BONNER PIER PARKING LOT RESURFACING

GENERAL NOTES:
2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

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.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

SUBSURFACE PLANS:

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

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

2018 ROADWAY ENGLISH STANDARD DRAWINGS
EFF. 01-16-2018

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

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
560.01 METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I

DIVISION 8 - INCIDENTALS
815.02 SUBSURFACE DRAIN

B-2500C

4RDI IA

ROADWAY DESIGN
ENGINEERDOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED
STATE OF NORTH CAROLINA

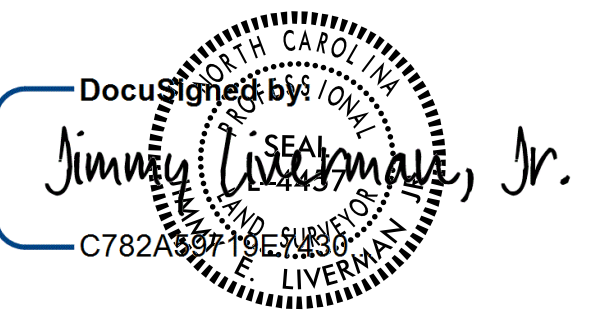
ROADWAY DESIGN UNIT

PREPARED BY

wood.
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG P-1253

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

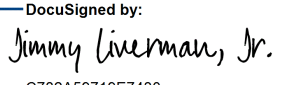
PROJECT REFERENCE NO. 32635.1.4	SHEET NO. RW02C-1
Location and Surveys	
INSERT CONSULTANT'S NAME LOCATION & SURVEYS 1300 US HWY 64 W PLYMOUTH, NC 27962	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Jimmy E. Liverman Jr, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
Type of GPS field procedure: RTN
Dates of survey: February 2021
Datum/Epoch: NAD 83/NA 2011
Published/Fixed-control use: N/A
Localized around: BL2
Northing: 773,512.6034
Easting: 3,020,419.4334
Combined grid factor: 0.9999288216
Geoid model: Geoid 12
Units: US Survey Foot

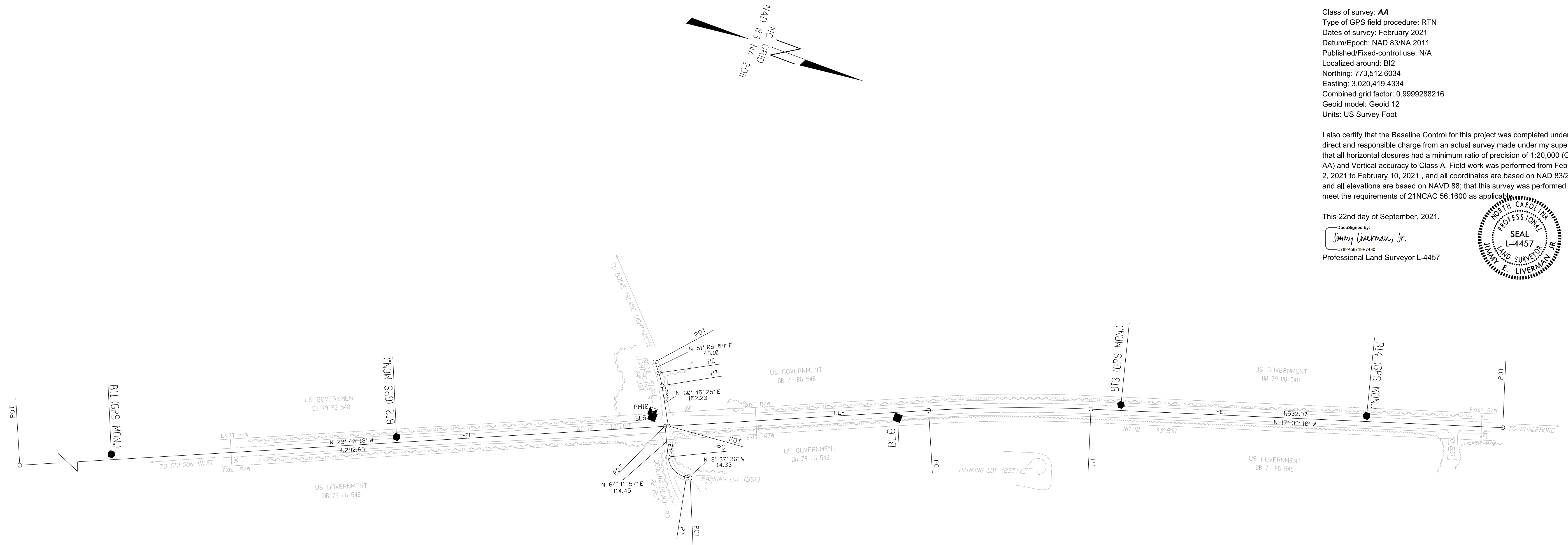
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from February 2, 2021 to February 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 22nd day of September, 2021.

DocuSigned by:

Professional Land Surveyor L-4457



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.

22-SEP-2021 13:34
E:\2500\B2500-TurnLaneExtensionSurvey\Control Sheets\32635.1.4-1.s-rw02c-1.dgn
1tdowns AT LS-311565

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. 32635.1.4	SHEET NO. RW02C-2
Location and Surveys	
INSERT CONSULTANT'S NAME LOCATION & SURVEYS 1300 US HWY 64 W PLYMOUTH, NC 27962	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	771403.733	3021366.295							
LINE			N 23°40'18.0" W	4292.69					
PC	775335.243	3019642.802							
CURVE			N 20°39'43.8" W	603.77	06°01'08.5"(RT)	00°59'47.2"	604.05	302.30	5750.00
PT	775900.177	3019429.757							
LINE			N 17°39'09.5" W	1532.97					
POT	777360.965	3018964.890							

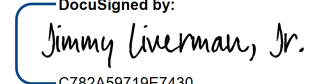
EY									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	774436.094	3020036.970							
LINE			N 64°11'57.0" E	114.45					
PC	774485.907	3020140.008							
CURVE			N 27°47'10.6" E	101.52	72°49'32.9"(LT)	67°00'17.1"	108.69	63.07	85.51
PT	774575.719	3020187.333							
LINE			N 08°37'35.9" W	14.33					
POT	774589.886	3020185.184							

EY1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	774318.334	3019825.244							
LINE			N 51°05'59.3" E	43.10					
PC	774345.398	3019858.784							
CURVE			N 55°55'42.0" E	48.90	09°39'25.4"(RT)	19°43'24.6"	48.96	24.54	290.50
PT	774372.795	3019899.293							
LINE			N 60°45'24.7" E	152.23					
POT	774447.160	3020032.119							

I, Jimmy E. Liverman Jr, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: February 2021
 Datum/Epoch: NAD 83/NA 2011
 Published/Fixed-control use: N/A
 Localized around: B12
 Northing: 773,512.6034
 Easting: 3,020,419.4334
 Combined grid factor: 0.9999288216
 Geoid model: Geoid 12
 Units: US Survey Foot

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from February 2, 2021 to February 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 22nd day of September, 2021.
 Documented by:

 Professional Land Surveyor L-4457



BL	POINT	DESC.	NORTH	EAST	ELEVATION
B11		BI-1 (GPS MON)	772539.6694	3020846.4535	2.40
B12		BI-2 (GPS MON)	773512.6034	3020419.4334	2.56
BL5		BL-5	774379.4450	3020019.8420	4.64
BL6		BL-6	775236.2160	3019708.2940	3.70
B13		BI-3 (GPS MON)	775999.3907	3019376.1391	3.81
B14		BI-4 (GPS MON)	776870.7701	3019098.9146	3.06

.....
 BM10 ELEVATION = 7.61
 N 774373 E 3020002
 NGS MONUMENT B 169
 COAST AND GEODETIC SURVEY

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.

REVISIONS

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

State Line	-----	
County Line	-----	
Township Line	-----	
City Line	-----	
Reservation Line	-----	
Property Line	-----	
Existing Iron Pin	-----	⊙
Computed Property Corner	-----	⊙
Property Monument	-----	⊙
Parcel / Sequence Number	-----	Ⓜ
Existing Fence Line	-----	⊗
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	-----	⊙
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:

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 C/A Marker	-----	⬡
Existing Control of Access	-----	⬡
New Control of Access	-----	⬡
Existing Easement Line	-----	E
New Temporary Construction Easement	-----	E
New Temporary Drainage Easement	-----	TDE
New Permanent Drainage Easement	-----	PDE
New Permanent Drainage / Utility Easement	-----	DUE
New Permanent Utility Easement	-----	PUE
New Temporary Utility Easement	-----	TUE
New 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:

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

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.*)	-----	T
U/G Telephone Cable LOS C (S.U.E.*)	-----	T
U/G Telephone Cable LOS D (S.U.E.*)	-----	T
U/G Telephone Conduit LOS B (S.U.E.*)	-----	TC
U/G Telephone Conduit LOS C (S.U.E.*)	-----	TC
U/G Telephone Conduit LOS D (S.U.E.*)	-----	TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----	TFO
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----	TFO
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----	TFO

WATER:

Water Manhole	-----	⊙
Water Meter	-----	⊙
Water Valve	-----	⊙
Water Hydrant	-----	⊙
U/G Water Line LOS B (S.U.E.*)	-----	W
U/G Water Line LOS C (S.U.E.*)	-----	W
U/G Water Line LOS D (S.U.E.*)	-----	W
Above Ground Water Line	-----	A/G Water

TV:

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

GAS:

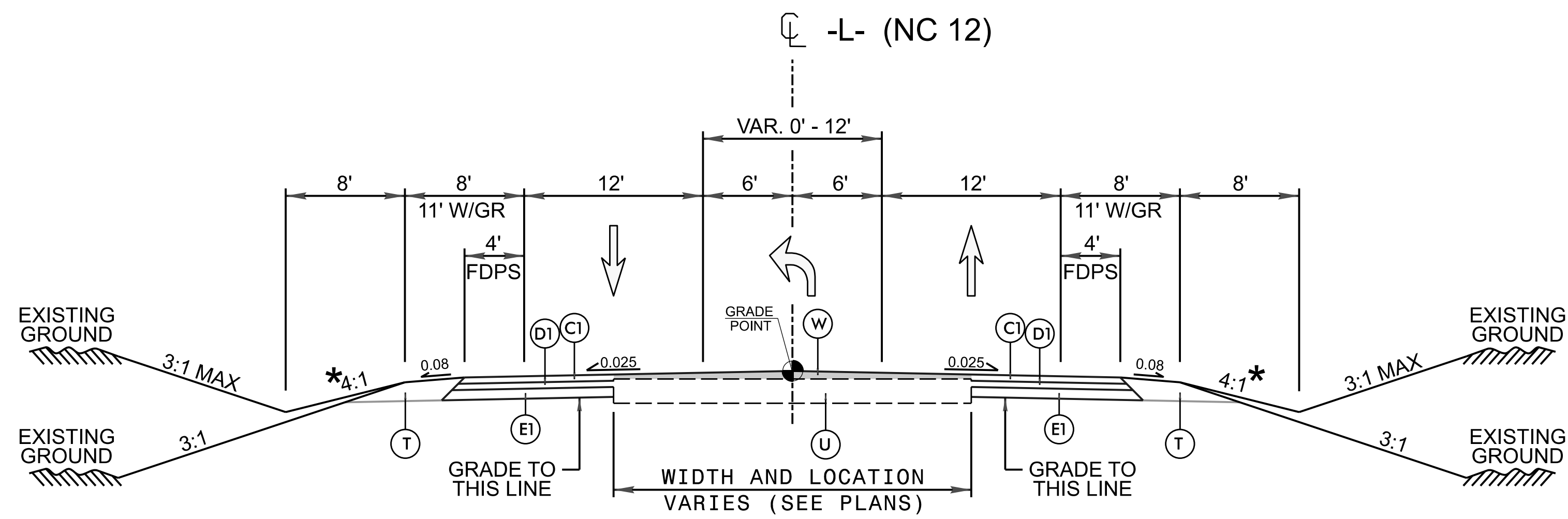
Gas Valve	-----	⊙
Gas Meter	-----	⊙
U/G Gas Line LOS B (S.U.E.*)	-----	G
U/G Gas Line LOS C (S.U.E.*)	-----	G
U/G Gas Line LOS D (S.U.E.*)	-----	G
Above Ground Gas Line	-----	A/G Gas

SANITARY SEWER:

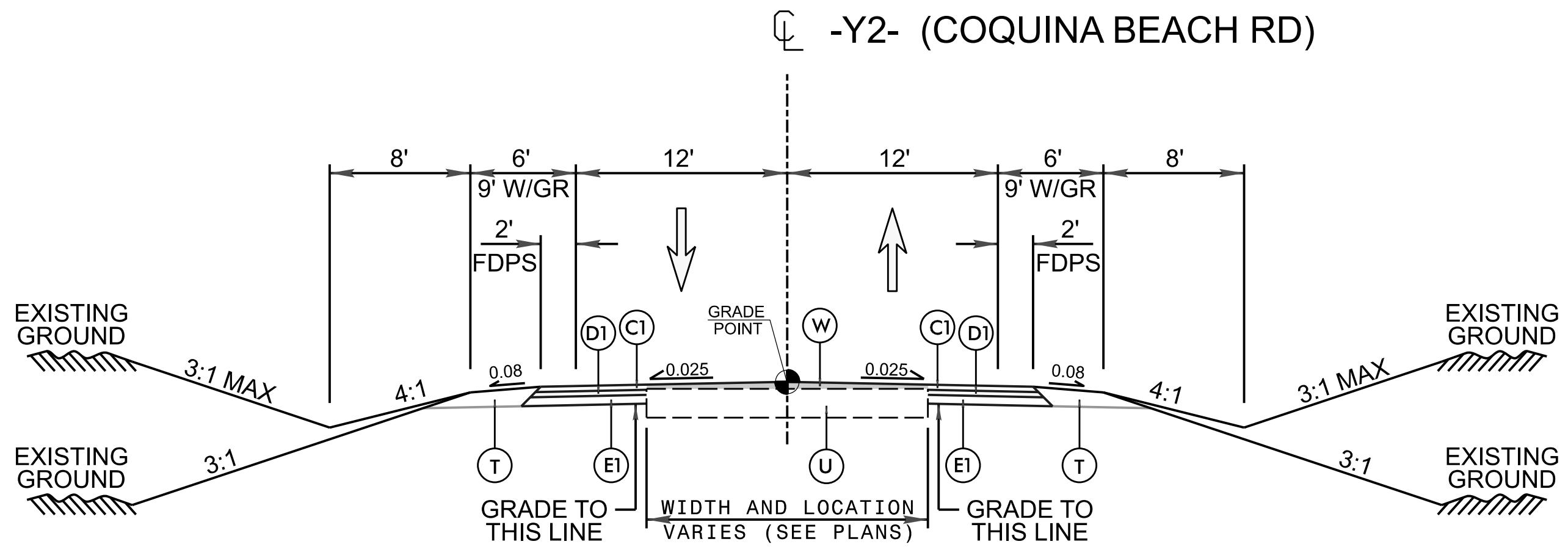
Sanitary Sewer Manhole	-----	⊙
Sanitary Sewer Cleanout	-----	⊙
U/G Sanitary Sewer Line	-----	SS
Above Ground Sanitary Sewer	-----	A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	-----	FSS
SS Forced Main Line LOS C (S.U.E.*)	-----	FSS
SS Forced Main Line LOS D (S.U.E.*)	-----	FSS

MISCELLANEOUS:

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



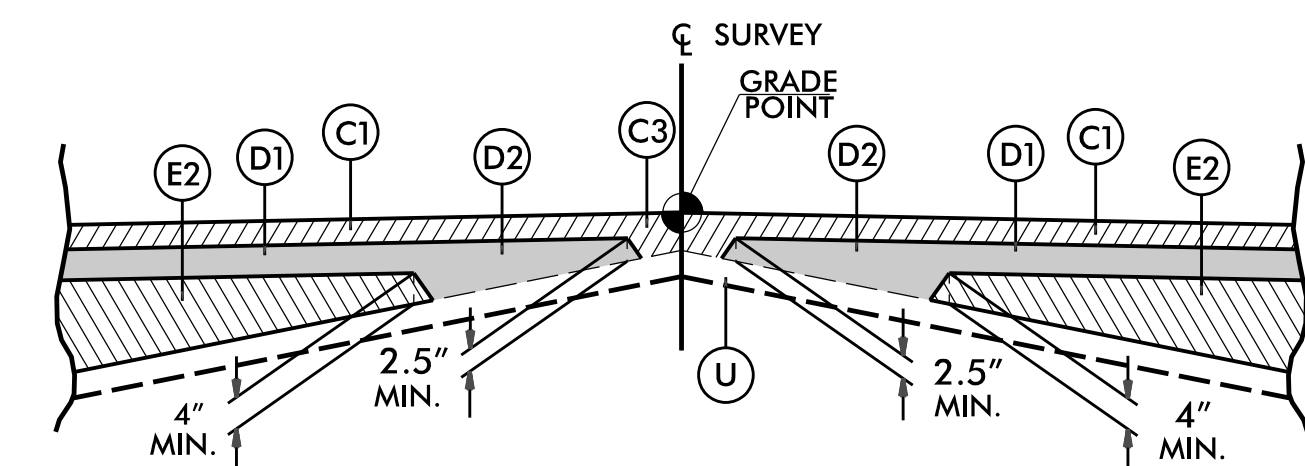
TYPICAL SECTION NO. 1
 -L- STA. 12+30.00 TO STA. 31+70.00
 * USE 3:1 DITCH FRONT SLOPES FROM
 -L- STA. 12+30.00 TO 22+00.00



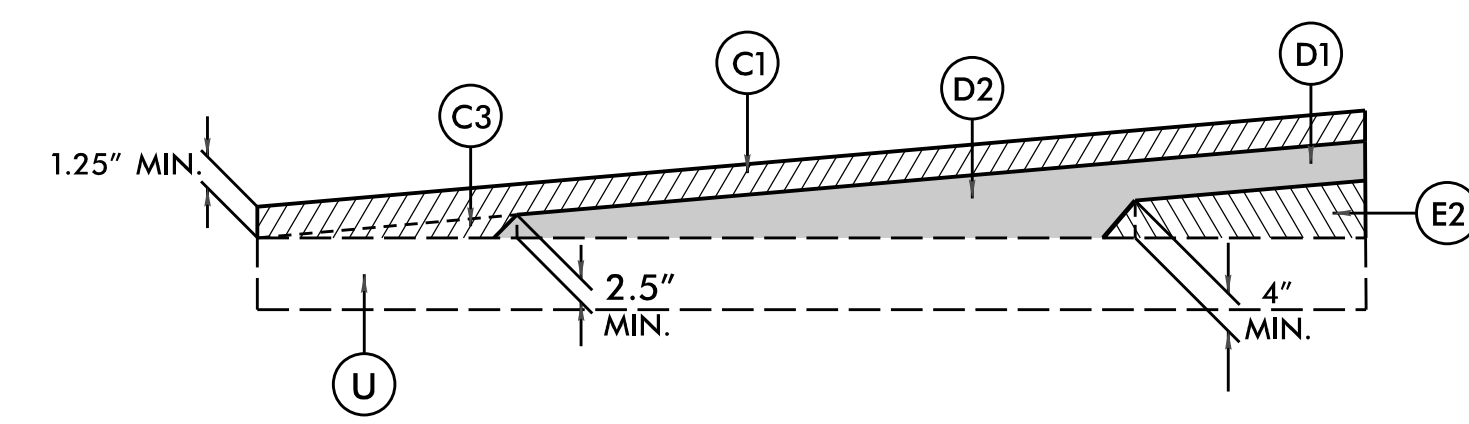
TYPICAL SECTION NO. 2
 -Y2- STA. 10+18.03 TO STA. 12+38.00

PAVEMENT SCHEDULE (FINAL)	
C1	PROP. APPROX. 2.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 4" OR GREATER THAN 5.5" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	INCIDENTAL MILLING BITUMINOUS PAVEMENT (1.25" MAX. DEPTH). SEE MILLING DETAIL.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAILS).

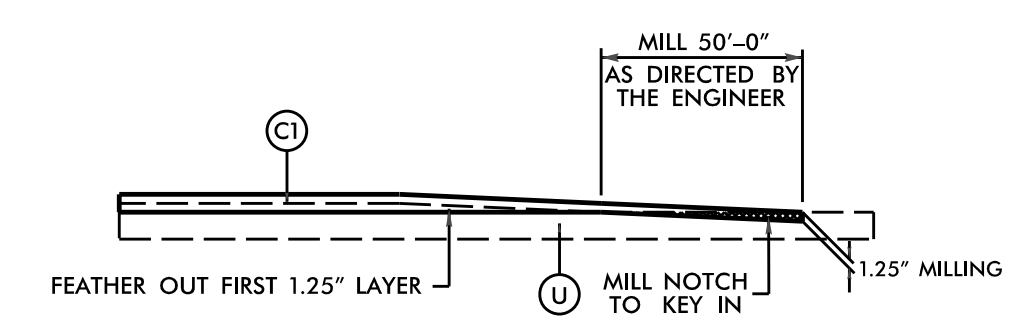
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



DETAIL SHOWING METHOD OF WEDGING NO. 1



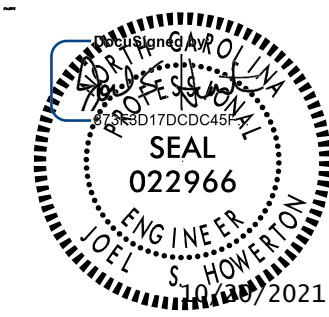
WEDGING DETAIL FOR RESURFACING

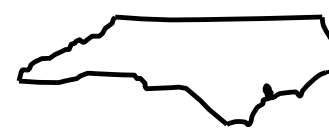


INCIDENTAL MILLING OF EXISTING PAVEMENT AS DIRECTED BY ENGINEER

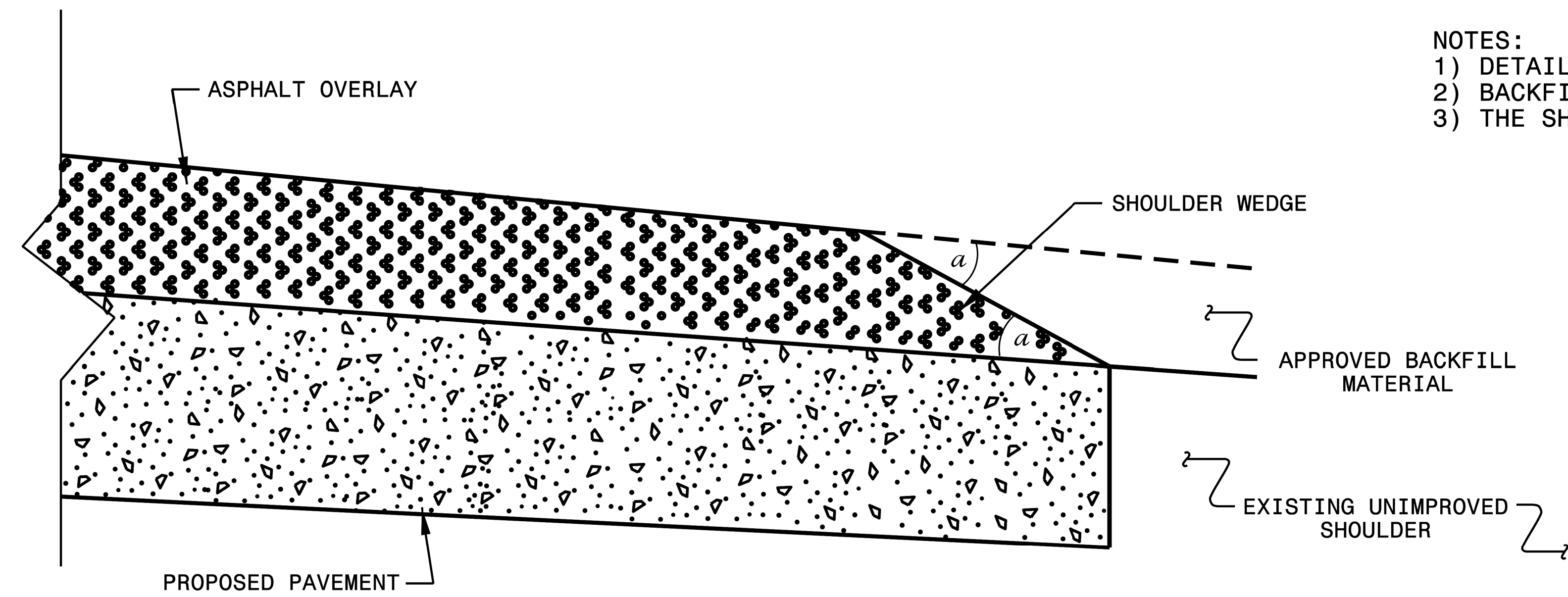
-L- STA 12+30.00 TO -L- STA 12+80.00
 -L- STA 31+20.00 TO -L- STA 31+70.00

B-2500C
 4RD1 2A-1
 ROADWAY DESIGN ENGINEER
 10/22/2021
 PAVEMENT DESIGN ENGINEER
 10/22/2021
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
 STATE OF NORTH CAROLINA
 ROADWAY DESIGN UNIT
 PREPARED BY
wood
 4021 STIRRUP CREEK DRIVE
 DURHAM, NC 27703
 NC ENG P-1253

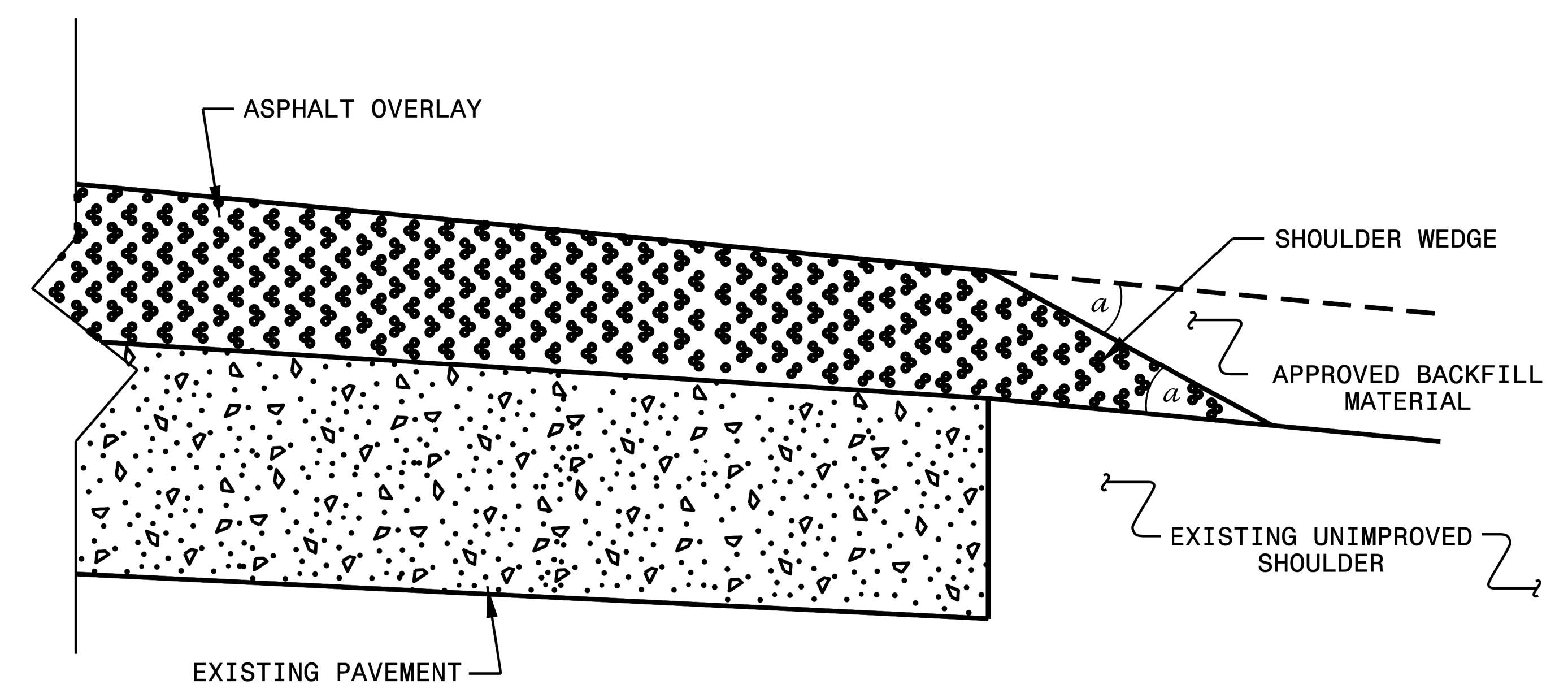
B-2500C
 4RD1 2B-1
 ROADWAY DESIGN ENGINEER


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
 STATE OF NORTH CAROLINA

 ROADWAY DESIGN UNIT
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wood
 4021 STIRRUP CREEK DRIVE
 DURHAM, NC 27703
 NC ENG P-1253

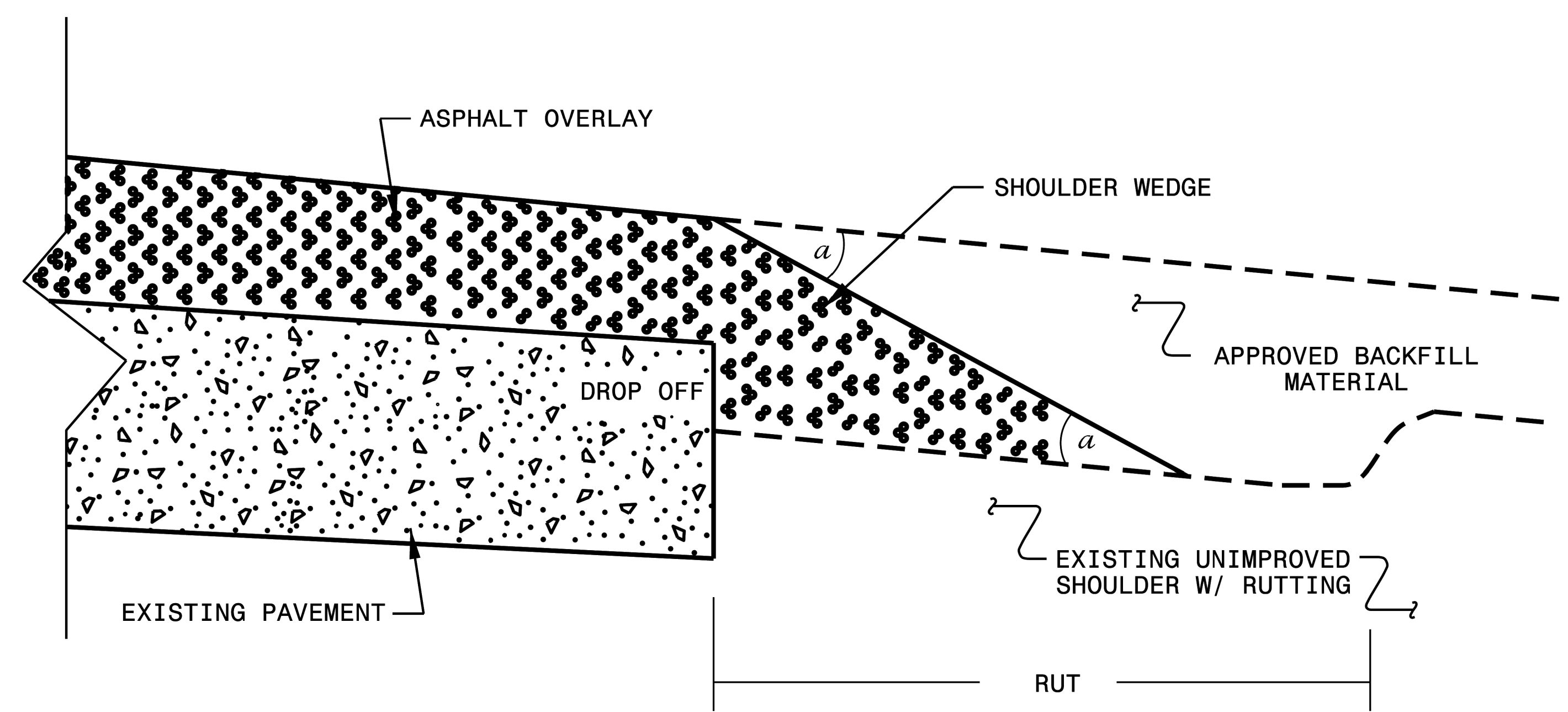
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
SHOULDER WEDGE DETAILS	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK IN CUBIC YARDS

LINE	STATION	STATION	UNCLASS. EXCAV.	EMBANK. +%	BORROW	WASTE
-L-	12+30.00	31+70.00	2,179	2,084		95
-Y2-	10+18.03	12+38.00	84	20		64
PROJECT TOTALS			2,263	2,104		159
GRAND TOTALS			2,263	2,104		159
SAY			2,300			170

NOTES:

ALL EARTHWORK QUANTITIES WERE DERIVED FROM ORD QUANTITIES BY NAMED BOUNDARY REPORTS AS DESCRIBED IN THE ORD TRAINING. THESE EARTHWORK QUANTITIES WERE COMPUTED BY WOOD E&IS AND ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

APPROXIMATE QUANTITIES ONLY. CLEARING AND GRUBBING, UNCLASSIFIED EXCAVATION, SHOULDER BORROW, & FINE GRADING WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

PAVEMENT STRUCTURE VOLUME = 2,232 CY
SHOULDER BORROW = 201 CUBIC YARDS

PER GEOTECHNICAL RECOMMENDATIONS DATED AUGUST 19, 2021:

EST. SHALLOW UNDERCUT = 100 CUBIC YARDS
CLASS IV SUBGRADE STABILIZATION = 190 CUBIC YARDS
PER GEOTECH RECOMMENDATION, ESTIMATED 500 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER. NO SIGNIFICANT LOSS OF UNCLASSIFIED EXCAVATION IS NO SIGNIFICANT LOSS OF UNCLASSIFIED EXCAVATION IS ANTICIPATED DUE TO CLEARING AND GRUBBING.



COMPUTED BY: Tyler Bottoms DATE: 8/12/21
 CHECKED BY: Jinyoung Park DATE: 8/19/21

(12-17-19)

PROJECT NO.
B-2500C

SHEET NO.
3G-1

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY					400
TOTAL LF:					400

*UD = Underdrain
 *BD = Blind Drain
 *SD = Subsurface Drain

**SUMMARY OF GEOTEXTILE
FOR PAVEMENT STABILIZATION**

LINE	Station	Station	Geotextile for Pavement Stabilization SY	Class IV Subgrade Stabilization TONS
CONTINGENCY				
TOTAL SY/TONS:			0	0*

*Total tons of "Class IV Subgrade Stabilization" is only the estimated quantity for pavement stabilization and may only represent a portion of the subgrade stabilization quantity shown in the Item Sheets of the Proposal.

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY			ASU (1)	12	100	190	300		
CONTINGENCY									400
TOTAL CY/TONS/SY:					100	190**	300**	0	400

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
 *AST = Aggregate Stabilization
 **Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Soil Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

SUMMARY OF ROCK PLATING

LINE	Beginning Slope (H:V)	Approx. Station	Ending Slope (H:V)	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
TOTAL SY:								0

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

SUMMARY OF REINFORCED SOIL SLOPES AND SLOPE EROSION CONTROL

LINE	Beginning Slope/ RSS (H:V)	Approx. Station	Ending Slope/ RSS (H:V)	Approx. Station	Location LT/RT	Reinforced Soil Slope (RSS) SY	Geocells SY	Coir Fiber Mat SY	Matting for Erosion Control SY
TOTAL SY:						0	0	0*	0**

*Total square yards of "Coir Fiber Mat" is only the estimated quantity for slopes steeper than 2:1 (H:V) and may only represent a portion of the coir fiber mat quantity shown in the Item Sheets of the Proposal.
 **Total square yards of "Matting for Erosion Control" is only the estimated quantity for RSS and may only represent a portion of the matting quantity shown in the Item Sheets of the Proposal.

SUMMARY OF PRE-SPLITTING OF ROCK

LINE	Beginning Rock Cut Slope (H:V)	Approx. Station	Ending Rock Cut Slope (H:V)	Approx. Station	Location LT/RT	Pre-splitting of Rock SY
TOTAL SY:						0

SUMMARY OF HORIZONTAL DRAINS

LINE	Approximate Station	Location LT/RT	Elevation Above or Below Grade (+/-) FT	Inclination Angle DEGREES	PVC Pipe Schedule 40/80 or NO PIPE	Horizontal Drain FT	Horizontal Drain W/O Pipe FT
CONTINGENCY							
TOTAL FT:						0	0

SUMMARY OF SETTLEMENT GAUGES

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
TOTAL GAUGES (EACH):			

**SUMMARY OF SURCHARGES
AND SURCHARGE WAITING PERIODS**

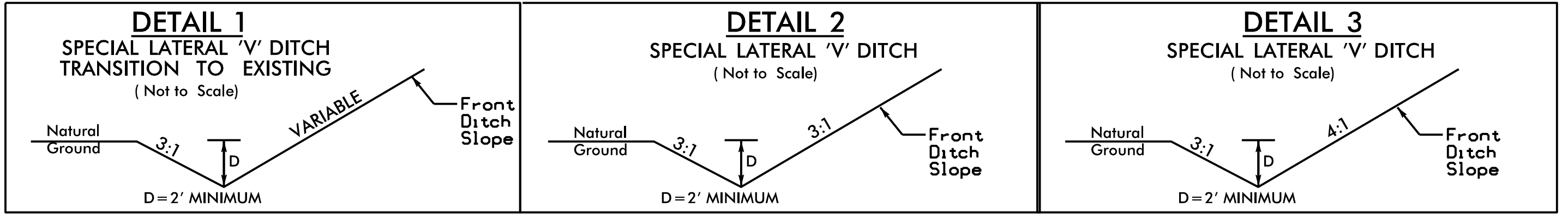
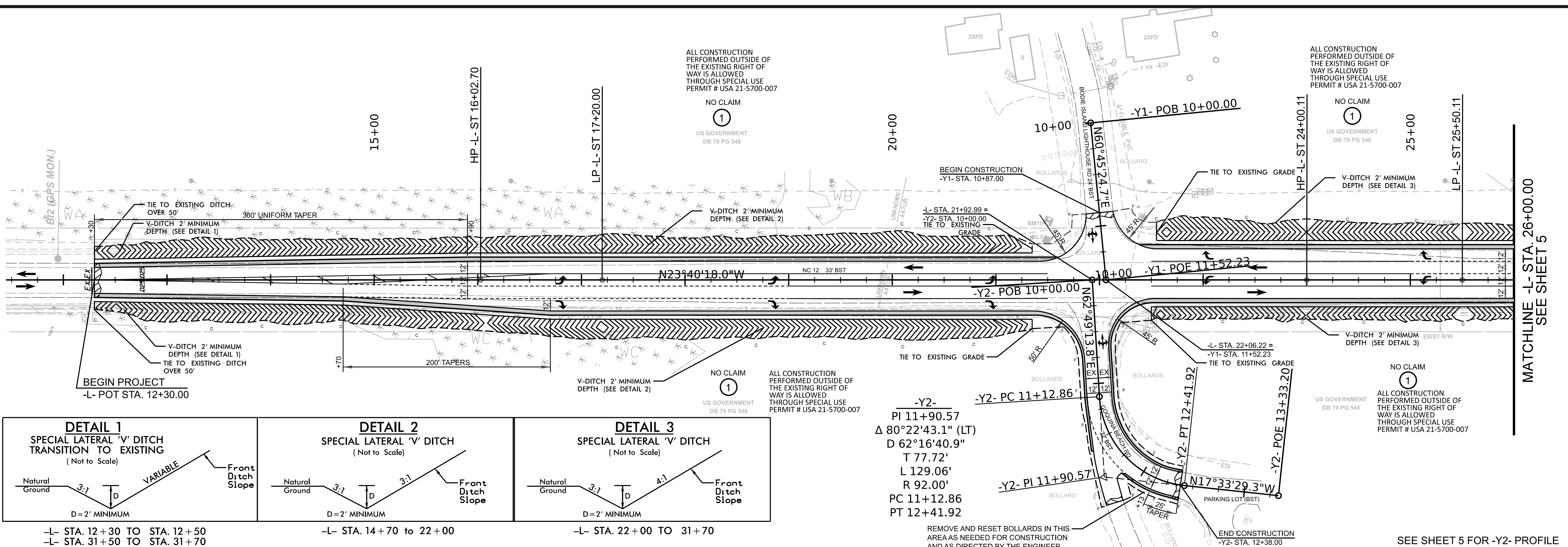
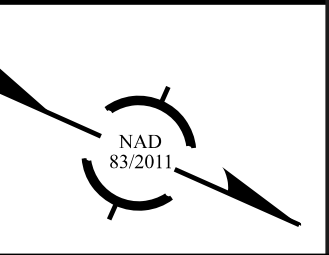
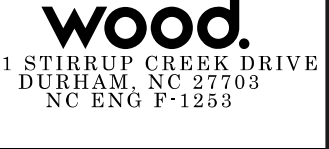
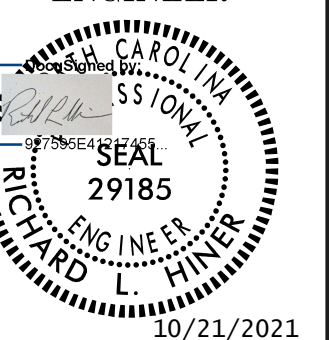
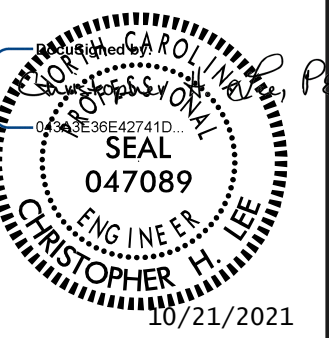
LINE	Station	Station	Surcharge Height FT	MONTHS

**SUMMARY OF EMBANKMENT
WAITING PERIODS**

LINE	Station	Station	MONTHS

SUMMARY OF BRIDGE WAITING PERIODS

Bridge Description	End Bent/ Bent No.	MONTHS



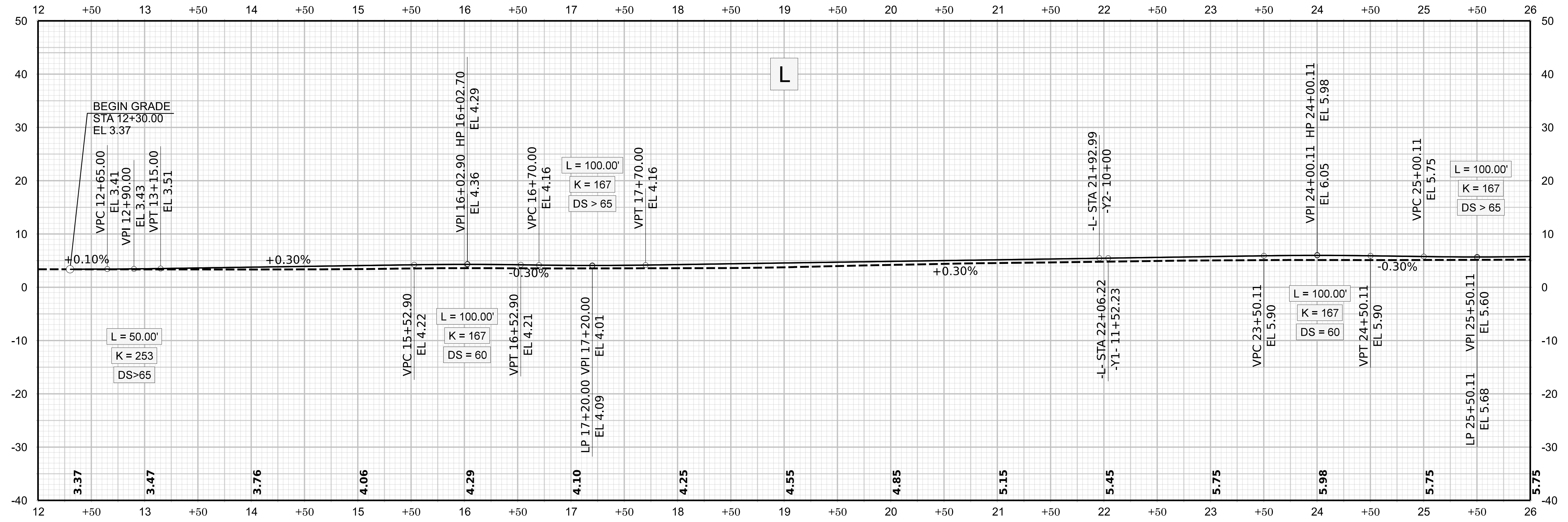
-L- STA. 12+30 TO STA. 12+50
 -L- STA. 31+50 TO STA. 31+70

-L- STA. 14+70 TO STA. 22+00

-L- STA. 22+00 TO STA. 31+70

REMOVE AND RESET BOLLARDS IN THIS AREA AS NEEDED FOR CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.

SEE SHEET 5 FOR -Y2- PROFILE



3.37 3.47 3.76 4.06 4.29 4.10 4.25 4.55 4.85 5.15 5.45 5.75 5.98 5.75

5/26/20

MATCHLINE -L- STA. 26+00.00
SEE SHEET 4

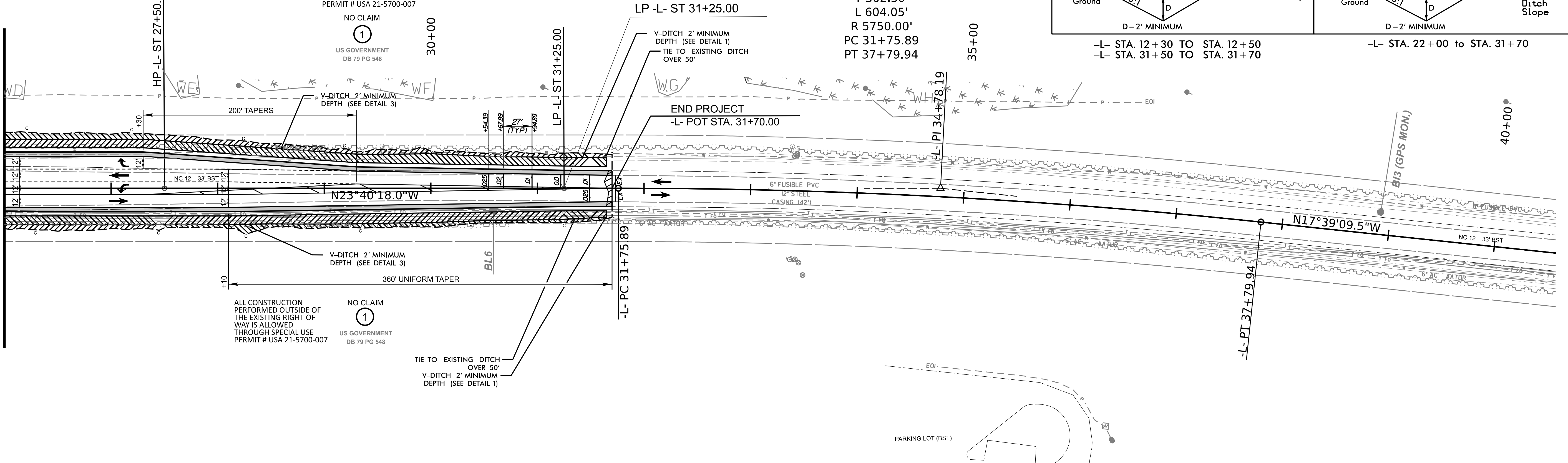
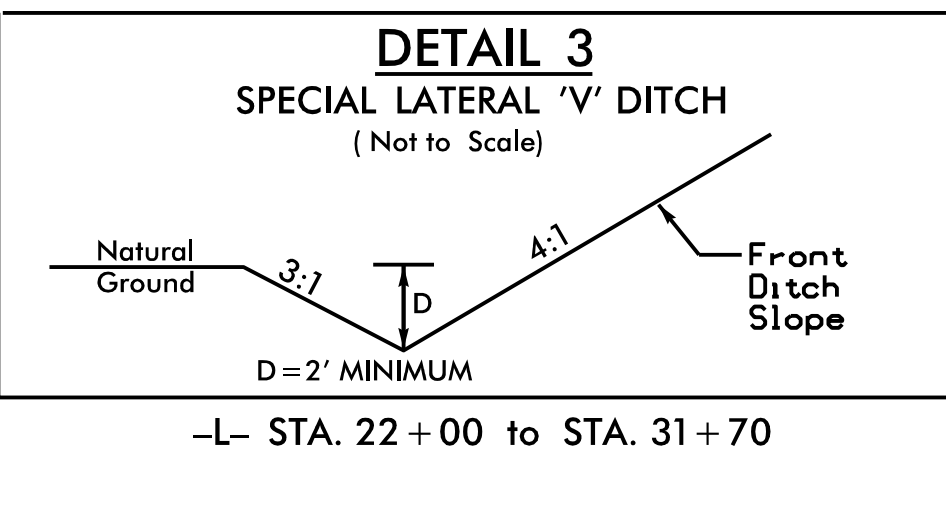
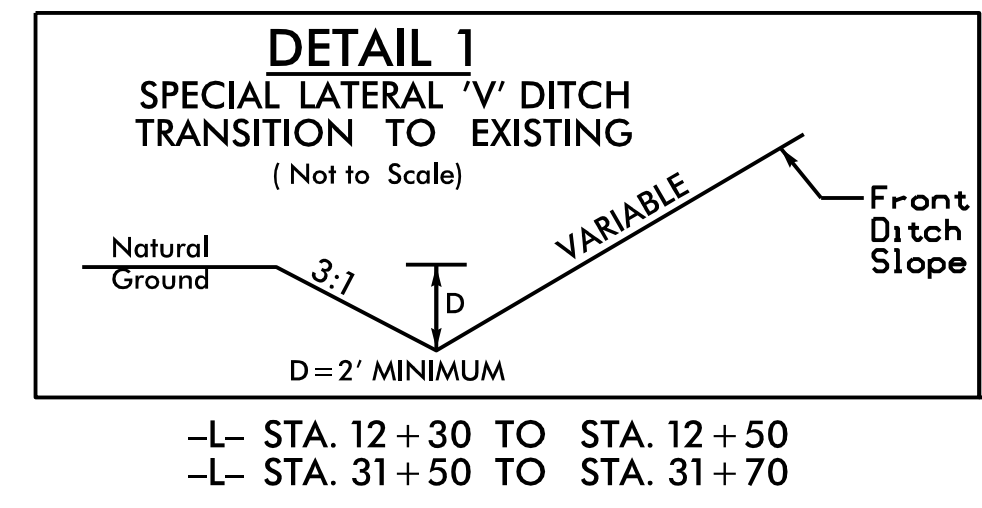
ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA 21-5700-007

NO CLAIM
1
US GOVERNMENT
DB 79 PG 548

ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA 21-5700-007

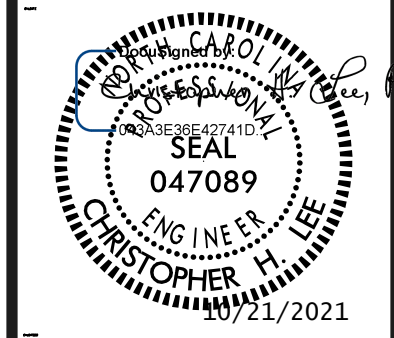
NO CLAIM
1
US GOVERNMENT
DB 79 PG 548

-L-
PI 34+78.19
Δ 06°01'08.5" (RT)
D 00°59'47.2"
T 302.30'
L 604.05'
R 5750.00'
PC 31+75.89
PT 37+79.94

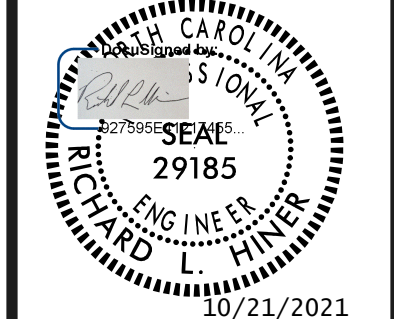


B-2500C

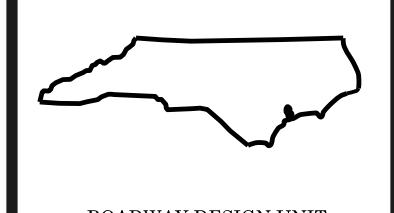
4RDI 005
ROADWAY DESIGN ENGINEER



HYDRAULICS ENGINEER



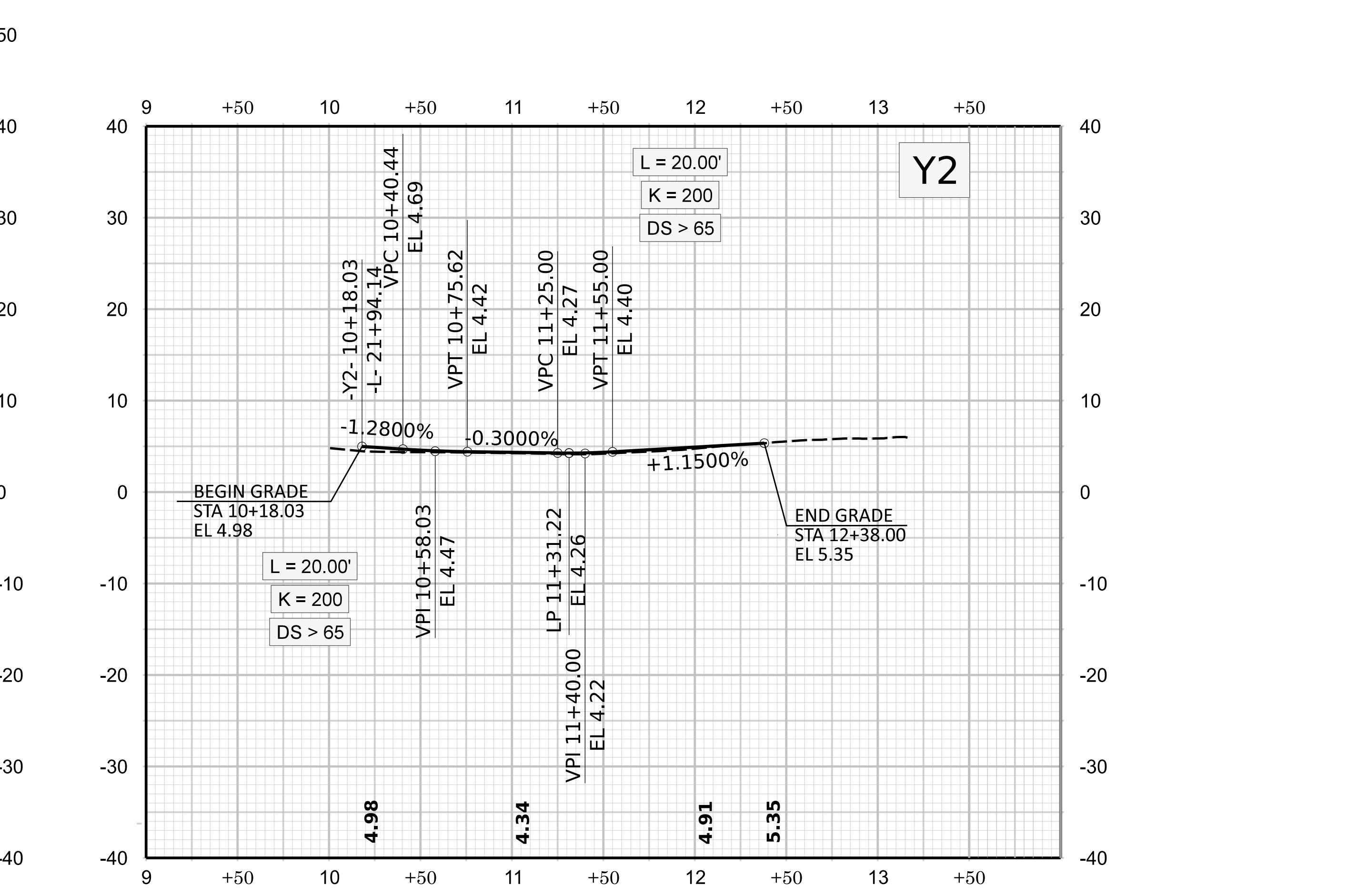
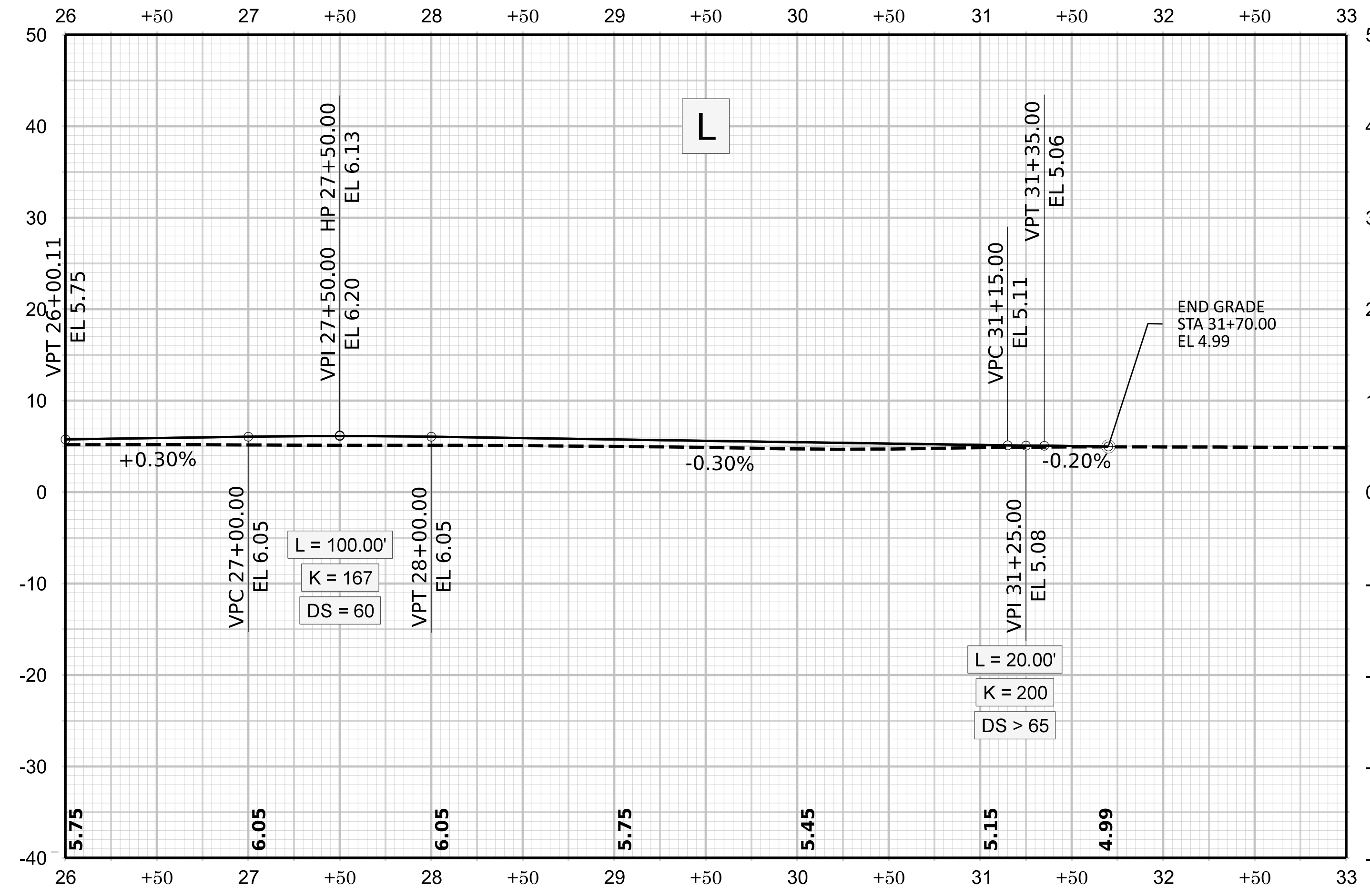
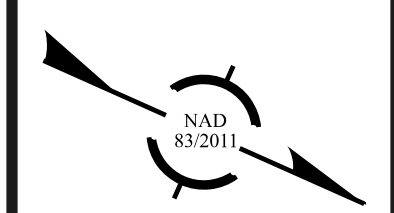
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
STATE OF NORTH CAROLINA



ROADWAY DESIGN UNIT

PREPARED BY

wood
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG P-1253



SEE SHEET 4 FOR -Y2- PLAN

10/18/2021 c:\users\caroline.owings\appdata\local\bentley\projectwise\workingdir\mb-us-pw-bentley.com_mb-us-pw-07\caroline.owings\mbaker\intl\com\01864\B-2500 TMP 01.TITLE.dgn

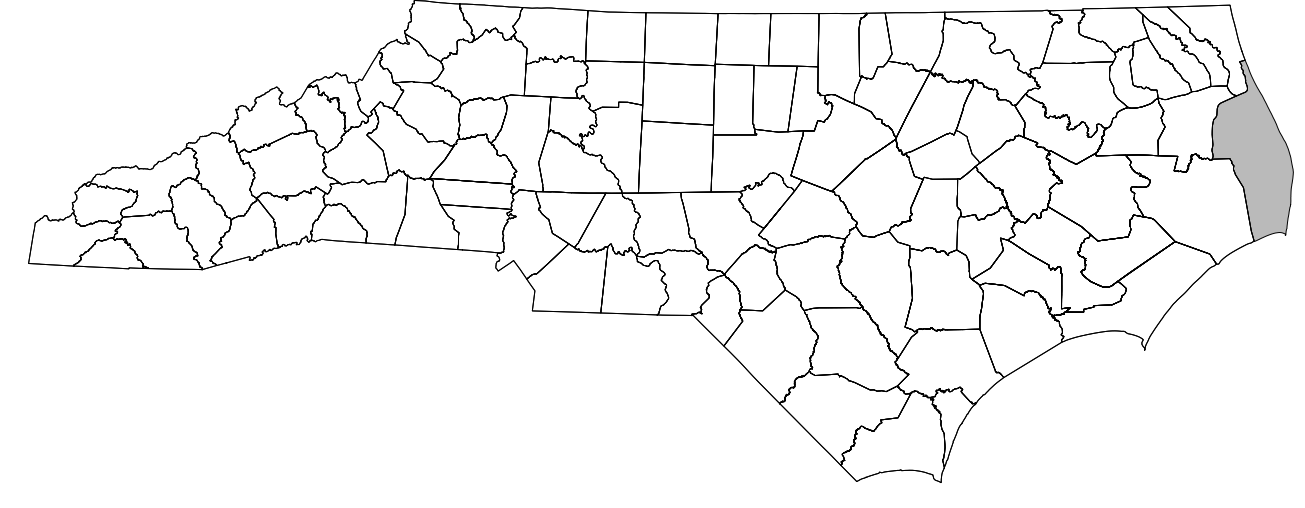
CONTRACT NO: DA00522 TIP PROJECT: B-2500C

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

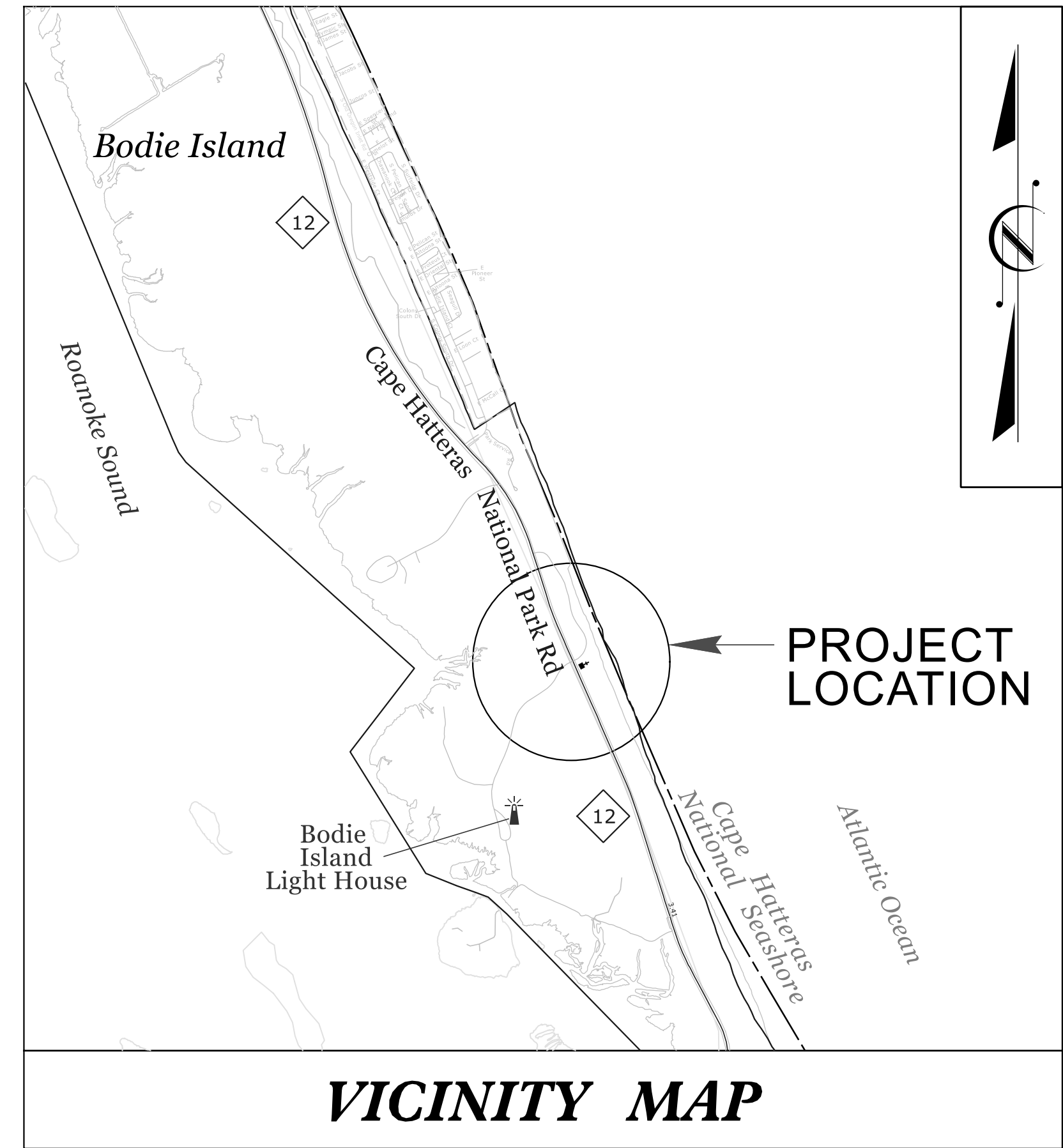
TRANSPORTATION MANAGEMENT PLAN

DARE COUNTY

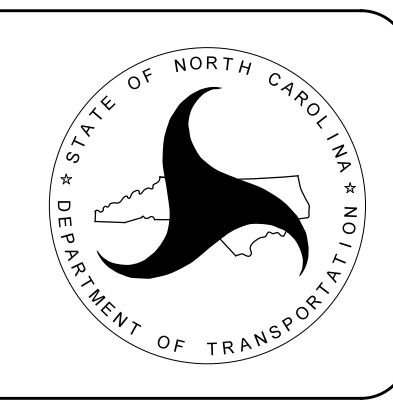
DIVISION 1



LOCATION: IMPROVEMENTS TO NC 12 AT INTERSECTION WITH COQUINA BEACH RD. AND BODIE ISLAND LIGHTHOUSE RD.



PROJECT CONTACTS:	
CHRISTOPHER H. LEE, PE	PROJECT ENGINEER
ROHAM R. LAHIJI	DIVISION 1 PROJECT MANAGER



TIP NO. B - 2500C	SHEET NO. TMP - 1
APPROVED: _____	
DATE: _____	
10/19/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, INDEX OF SHEETS, ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2	GENERAL NOTES AND TRAFFIC MANAGEMENT STRATEGY
TMP-3	TRAFFIC CONTROL DETAIL AND PHASING

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUMS

LEGEND

- GENERAL**
- EXIST. PVMT.
 - ← DIRECTION OF TRAFFIC FLOW
- WORK AREAS**
- PROPOSED ROADWAY CONSTRUCTION
- TEMPORARY TRAFFIC CONTROL DEVICES**
- DRUM
 - ⊥ WORK ZONE SIGN-STATIONARY

PLAN PREPARED BY: MICHAEL BAKER INTERNATIONAL

GEORGE M. KARAGEORGE, PE
TRAFFIC ENGINEER-NC OPERATIONS

CAROLINE E. OWINGS, PE
TRAFFIC ENGINEER

Michael Baker
INTERNATIONAL
8000 Regency Parkway, Suite 600,
Cary, NC 27518
Phone: (919) 463-5488
MBAKERINTL.COM
PROFESSIONAL CORPORATION
LICENSE NO. F-1084

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR 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 A LANE OF TRAFFIC ON NC 12 DURING THE FOLLOWING TIME RESTRICTIONS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 12	SEPTEMBER 15 THRU JUNE 13 FRIDAY 3:00 PM TO MONDAY 7:00 AM
	JUNE 14 THRU SEPTEMBER 14 TUESDAY THRU THURSDAY 6:00 AM TO 8:00 PM FRIDAY 6:00 AM TO MONDAY 8:00 PM

B) IN ADDITION, THE CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON NC 12, DETAIN AND/OR ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY WEEKENDS, SPECIAL EVENTS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

NC 12

HOLIDAY LANE CLOSURE TIME RESTRICTIONS

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 6:00AM DECEMBER 31ST TO 8:00PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00PM THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00AM THURSDAY AND 8:00PM MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00AM FRIDAY AND 8:00PM TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00AM THE DAY BEFORE INDEPENDENCE DAY AND 8:00PM THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN BETWEEN THE HOURS OF 6:00AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00PM THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00AM FRIDAY AND 8:00PM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00AM TUESDAY AND 8:00PM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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.

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

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

F) 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.

G) 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

H) 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.

I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

SIGNING

J) 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.

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

TRAFFIC CONTROL DEVICES

L) 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 TRAVEL WAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

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

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

TRAFFIC MANAGEMENT STRATEGY

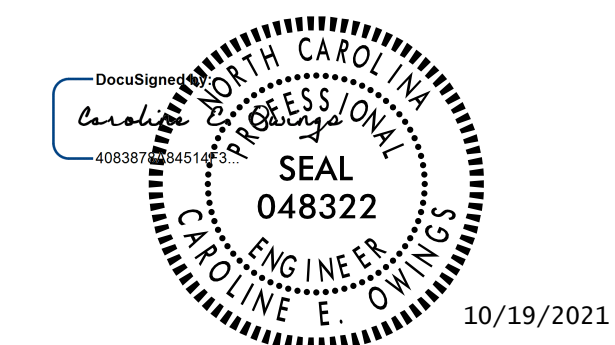
ONE-LANE, TWO WAY OPERATION (FLAGGING)

PROJECT REFERENCE NO.

B-2500C

SHEET NO.

TMP-2



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Michael Baker
INTERNATIONAL

10/18/2021
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GENERAL NOTES AND TRAFFIC MANAGEMENT STRATEGY

PROJECT REFERENCE NO. B - 2500C	SHEET NO. TMP - 3
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

PHASING

PHASE I

STEP 1:
PRIOR TO ANY CONSTRUCTION OPERATIONS
INSTALL WORK ZONE ADVANCE WARNING SIGNS
PER RSD. 1101.01 SHEET 3 OF 3.

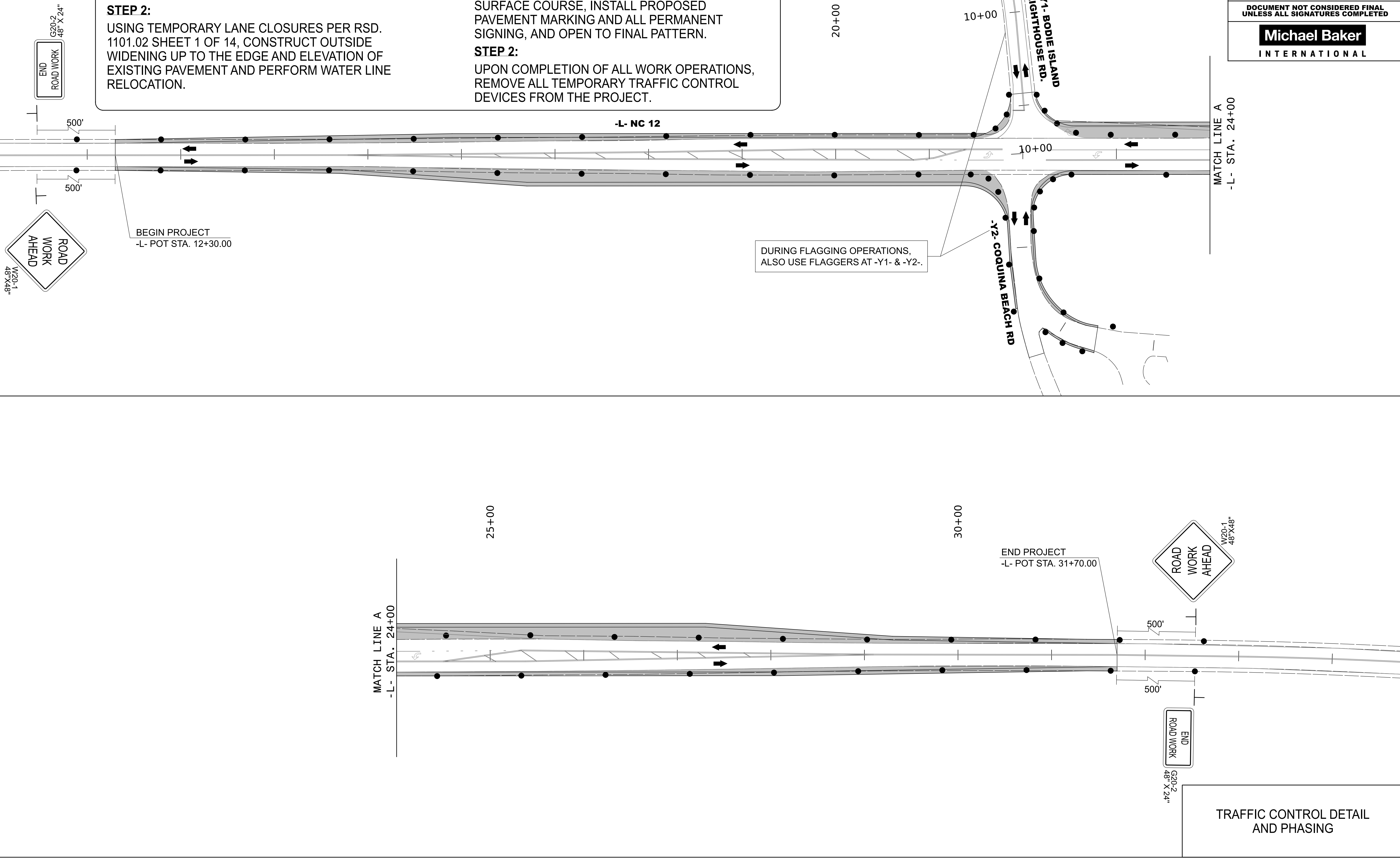
STEP 2:
USING TEMPORARY LANE CLOSURES PER RSD.
1101.02 SHEET 1 OF 14, CONSTRUCT OUTSIDE
WIDENING UP TO THE EDGE AND ELEVATION OF
EXISTING PAVEMENT AND PERFORM WATER LINE
RELOCATION.

PHASE II

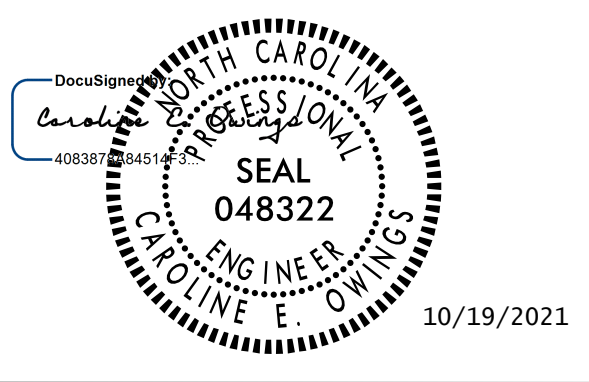

STEP 1:
USING TEMPORARY LANE CLOSURES PER RSD.
1101.02 SHEET 1 OF 14, COMPLETE ALL
MILLING/RESURFACING, PAVE THE FINAL
SURFACE COURSE, INSTALL PROPOSED
PAVEMENT MARKING AND ALL PERMANENT
SIGNING, AND OPEN TO FINAL PATTERN.

STEP 2:
UPON COMPLETION OF ALL WORK OPERATIONS,
REMOVE ALL TEMPORARY TRAFFIC CONTROL
DEVICES FROM THE PROJECT.

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TRAFFIC CONTROL DETAIL AND PHASING

PROJECT REFERENCE NO.	SHEET NO.
B-2500C	PMP-1
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
DARE COUNTY**

DIVISION 1

**LOCATION: IMPROVEMENTS TO NC 12 AT INTERSECTION WITH
COQUINA BEACH RD. AND BODIE ISLAND LIGHTHOUSE RD.**

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

GENERAL NOTES

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

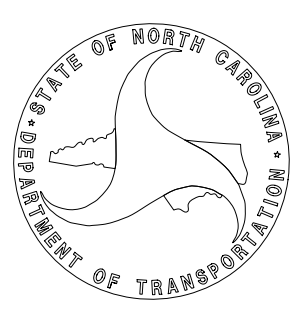
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|---------------|--------------|
| NC 12 | THERMOPLASTIC | SNOWPLOWABLE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- F) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS, AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.


PAVEMENT MARKING SCHEDULE

CODE	DESCRIPTION
ME	SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF	SNOWPLOWABLE MARKER (CRYSTAL & RED)
T1	THERMOPLASTIC WHITE EDGELINE (4", 90 MILS)
T2	THERMOPLASTIC WHITE LANELINE (4", 90 MILS)
T4	THERMOPLASTIC WHITE MINISKIP 3FT-9FT (4", 90 MILS)
T13	THERMOPLASTIC YELLOW DOUBLE CENTER (4", 90 MILS)
T42	THERMOPLASTIC YELLOW DIAGONAL (8", 90 MILS)
T61	THERMOPLASTIC WHITE STOPBAR (24", 90 MILS)
T70	THERMOPLASTIC LEFT TURN ARROW (90 MILS)
T71	THERMOPLASTIC RIGHT TURN ARROW (90 MILS)
T72	THERMOPLASTIC STRAIGHT ARROW (90 MILS)

INDEX

SHEET NO.	DESCRIPTION
PMP-1	TITLE SHEET
PMP-1A	DETAIL REVISED ROADWAY STANDARD 1205.04 SHEET 2 OF 2
PMP-2	PAVEMENT MARKING PLAN

PROJECT CONTACTS:		
<u>CHRISTOPHER H. LEE, PE</u>	PROJECT ENGINEER	
<u>ROHAM R. LAHIJI</u>	DIVISION 1 PROJECT MANAGER	

PLAN PREPARED BY: MICHAEL BAKER INTERNATIONAL		 INTERNATIONAL 8000 Regency Parkway, Suite 600, Cary, NC 27518 Phone: (919) 463-5488 MBAKERINTL.COM PROFESSIONAL CORPORATION LICENSE NO. F-1084
<u>GEORGE M. KARAGEORGE, PE</u>	TRAFFIC ENGINEER-NC OPERATIONS	
<u>CAROLINE E. OWINGS, PE</u>	TRAFFIC ENGINEER	

10/18/2021
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 Caroline.Owings

T.I.P.: B-2500C

CONTRACT: DA00522

PROJECT REFERENCE NO. B - 2500C	SHEET NO. PMP - 1A
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	
<p>Michael Baker INTERNATIONAL</p>	

10/18/2021
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 Caroline.Owings

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	TWO-LANE, TWO-WAY ROADWAY		STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.								
	TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE										
	UNDIVIDED MULTI-LANE ROADWAY										
ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS INTERSECTIONS	1-12	DIVIDED MULTI-LANE ROADWAY WITH TURN BAY	1-12								
	DIVIDED MULTI-LANE ROADWAY WITH WIDE MEDIAN CROSSOVER										
SHEET 2 OF 2 1205.04	USE DOUBLE YELLOW CENTER LINE AND ARROW SYMBOLS IN MEDIAN CROSSOVER WHEN WIDTH OF MEDIAN EXCEEDS 30 FT, OTHERWISE THEY ARE NOT REQUIRED.	<p>GENERAL NOTES:</p> <ol style="list-style-type: none"> 1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER. 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS. 3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS. 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE. 									
		<table border="1" style="margin: auto;"> <tr> <th colspan="2">LEGEND</th> </tr> <tr> <td> STOP SIGN</td> <td> STATIONARY SIGN</td> </tr> <tr> <td> DIRECTION OF TRAFFIC FLOW</td> <td> PAVEMENT MARKING SYMBOLS</td> </tr> <tr> <td colspan="2">* OPTIONAL</td> </tr> </table>	LEGEND		STOP SIGN	STATIONARY SIGN	DIRECTION OF TRAFFIC FLOW	PAVEMENT MARKING SYMBOLS	* OPTIONAL		
LEGEND											
STOP SIGN	STATIONARY SIGN										
DIRECTION OF TRAFFIC FLOW	PAVEMENT MARKING SYMBOLS										
* OPTIONAL											
		SHEET 2 OF 2 1205.04									

DETAIL REVISED
 ROADWAY STANDARD 1205.04
 SHEET 2 OF 2

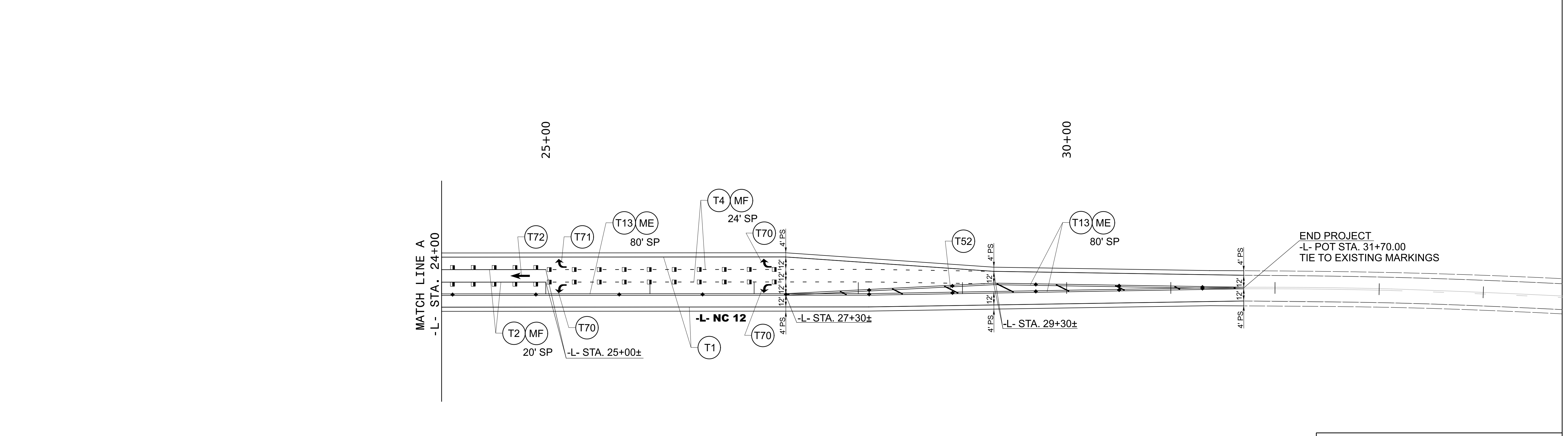
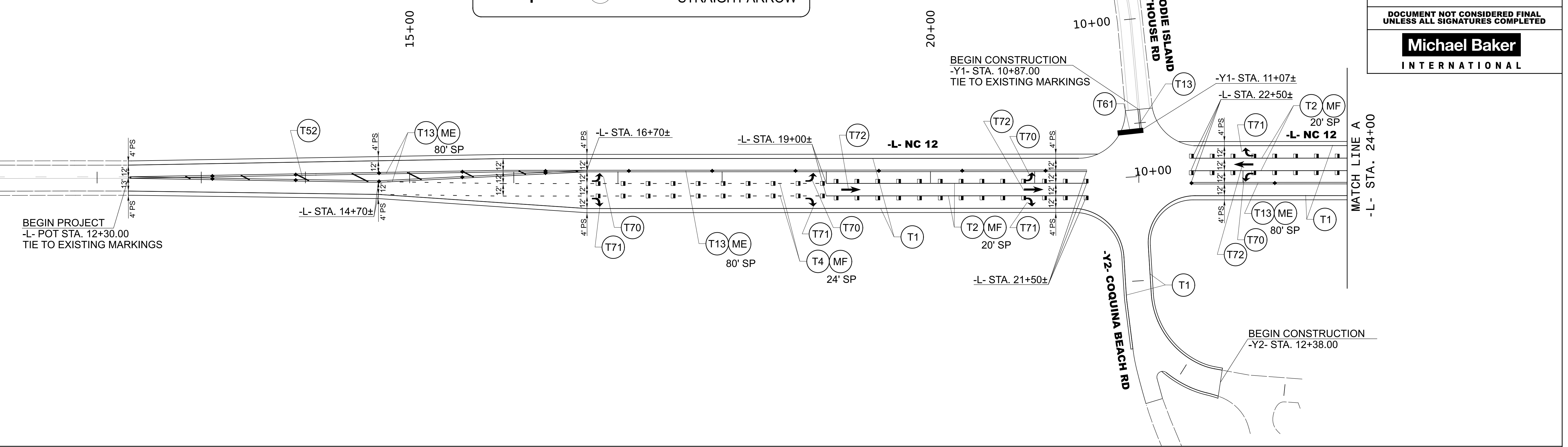
PROJECT REFERENCE NO. B - 2500C	SHEET NO. PMP - 2
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

NOTE

PAVEMENT MARKING QUANTITY INCLUDES REPLACING MARKING FOR 200 FT ON EACH END OF PROJECT LIMITS.

SYMBOL LEGEND

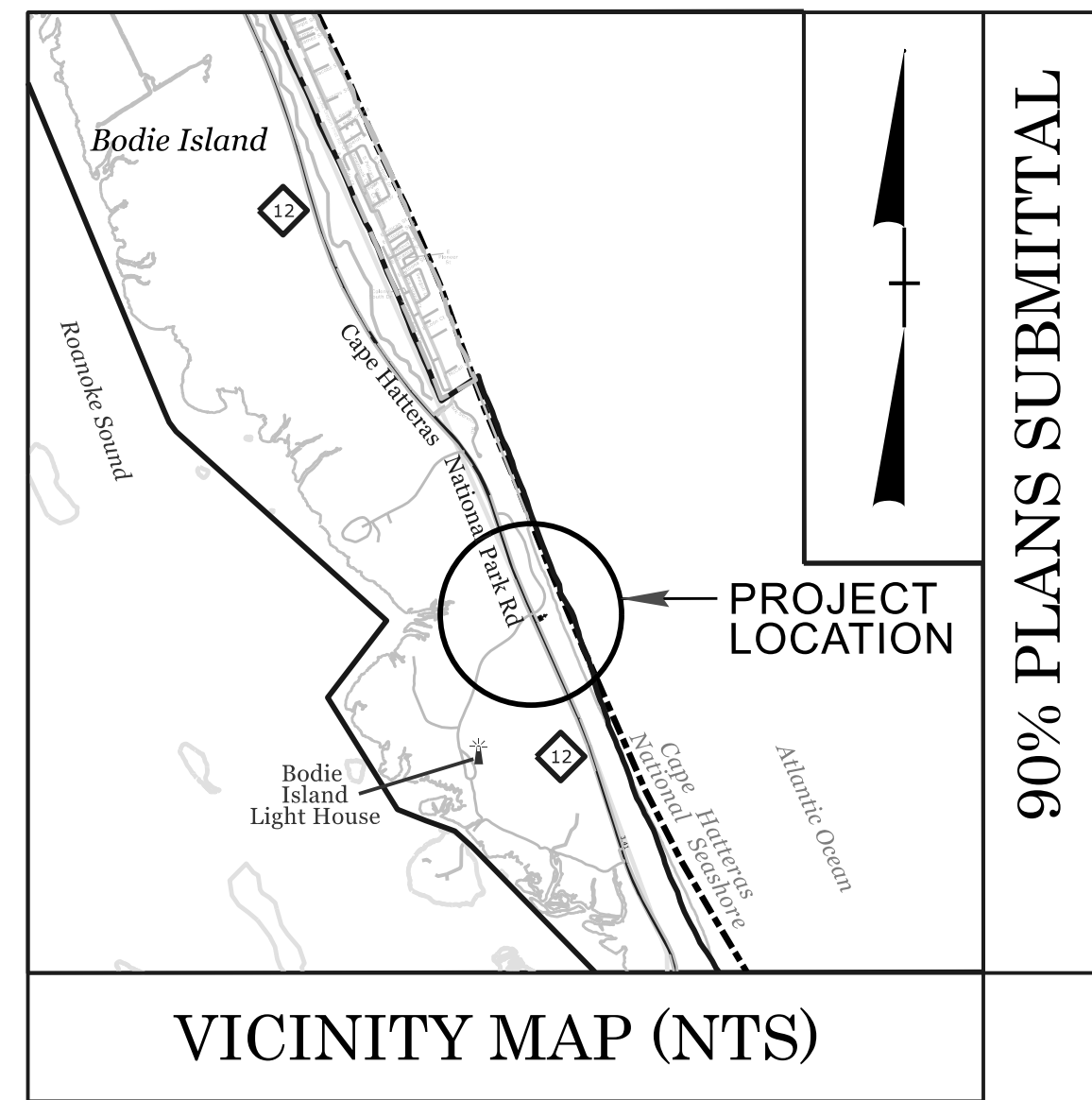
	(T70)	LEFT ARROW
	(T71)	RIGHT ARROW
	(T72)	STRAIGHT ARROW



PAVEMENT MARKING PLAN

10/19/2021
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 Caroline.Owings

TIP PROJECT: B-2500C



90% PLANS SUBMITTAL

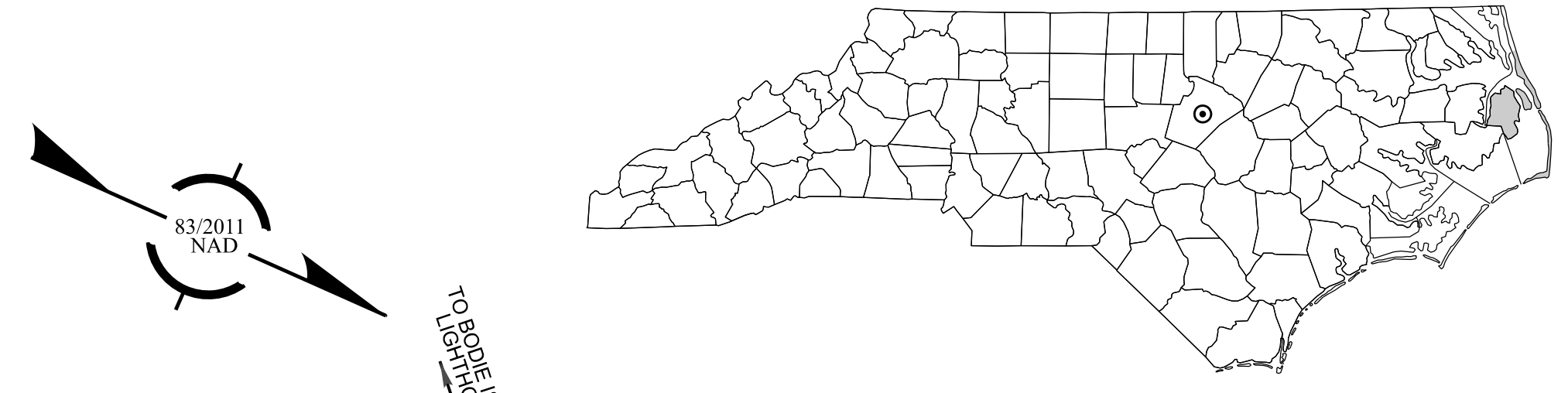
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**
DARE COUNTY

LOCATION: *IMPROVEMENTS TO NC 12 AT INTERSECTION WITH COQUINA BEACH RD. AND BODIE ISLAND LIGHTHOUSE RD.*

TYPE OF WORK: *GRADING, DRAINAGE, AND PAVING*

Stage 4 Plans (4RE1)
Plans Developed with
OpenRoads

NOTE TO REVIEWER:
PRINT STYLE AND PSET DEVELOPMENT IS STILL IN PROGRESS BY NCDOT FOR ORD DEVELOPED SHEETS AND CROSS SECTIONS. PLOTTING IN THIS SET IS ACCOMPLISHED USING NCDOT'S DEVELOPMENTAL STANDARDS FOR PLAN-ELEVATION AND CROSS SECTION SHEETS.



THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT

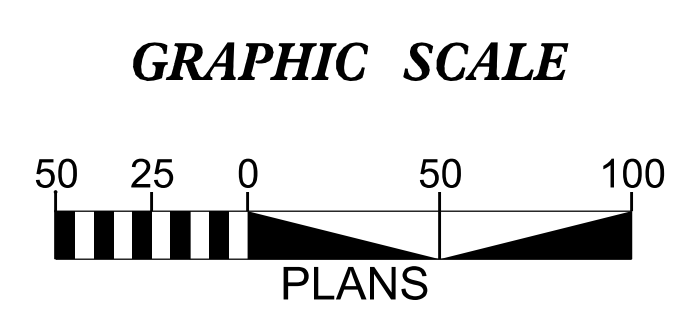
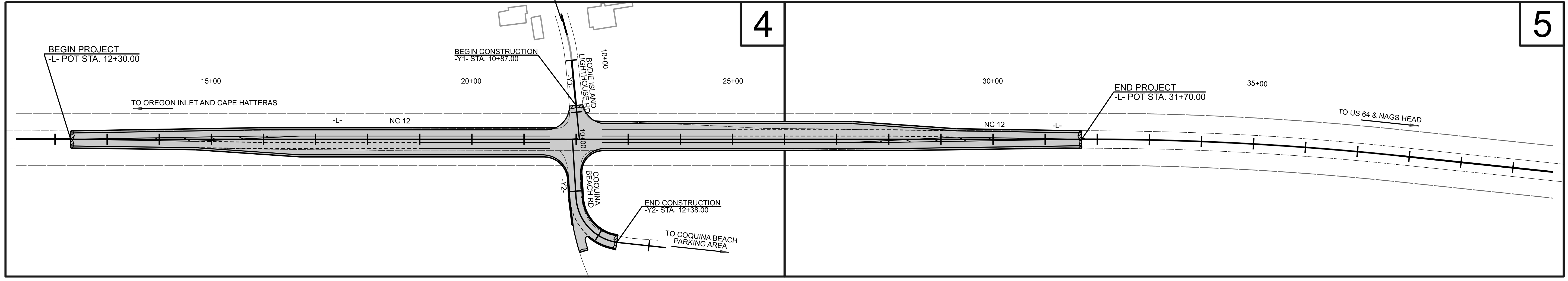
High Quality Water Zone(s) Exist
From Sta. 12+30.00
to Sta. 31+70.00
Refer To E. C. Special Provisions for Special Considerations.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-2500C	EC-1	6
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
32635.1.10		PE	
32635.2.12		ROW	
32635.2.13		UTIL.	
32635.3.11		CONST.	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.05	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	

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



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

Prepared in the Office of:
wood.
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG F-1253

Designed by:
RICHARD L. HINER, P.E. 3103
NAME LEVEL III CERTIFICATION NO.

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

Reviewed by:
WESLEY J CHANDLER

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 2018 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
1622.01 Temporary Berms and Slope Drains
1631.01 Matting Installation
1633.01 Temporary Rock Silt Check Type A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

B-2500C

4RE1 | EC-2

STATE OF NORTH CAROLINA



ROADWAY DESIGN UNIT

PREPARED BY

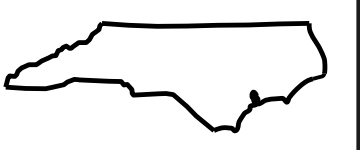
wood.
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG P-1233

<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.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A
AT DRAINAGE OUTLETS.

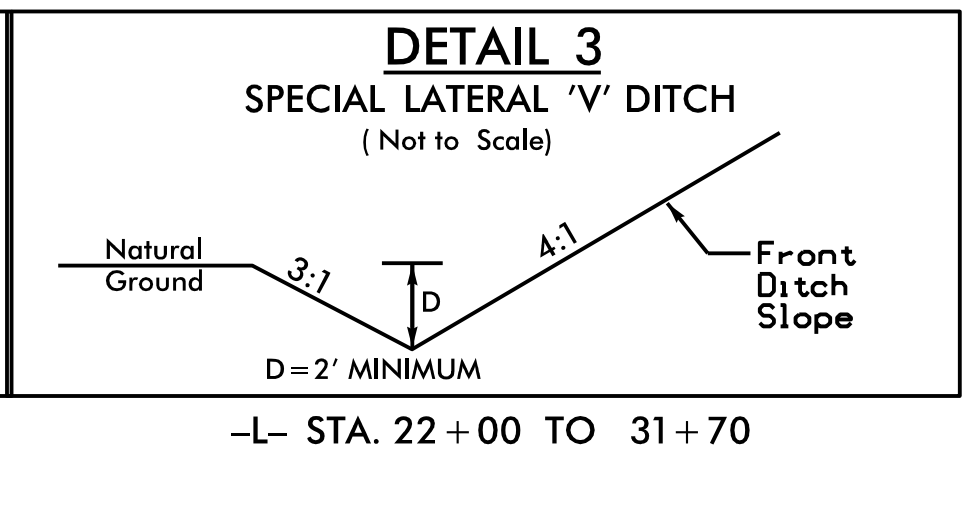
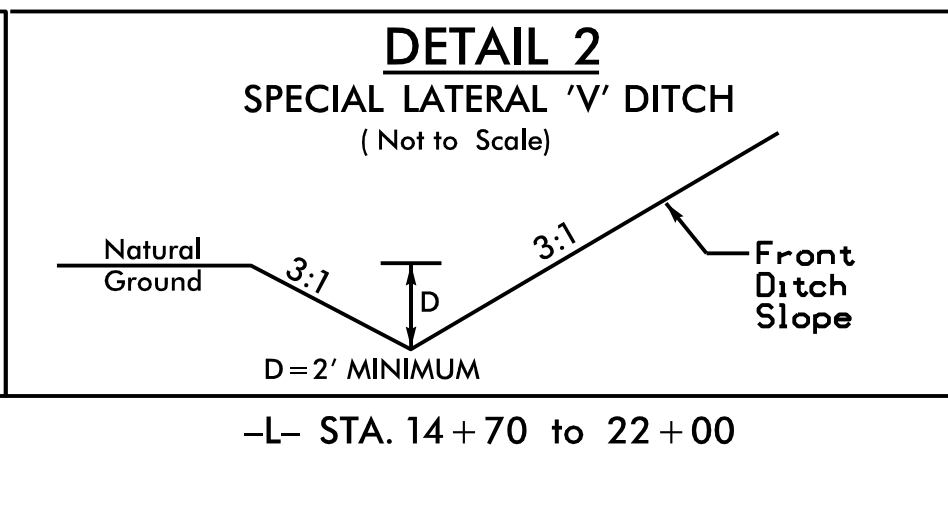
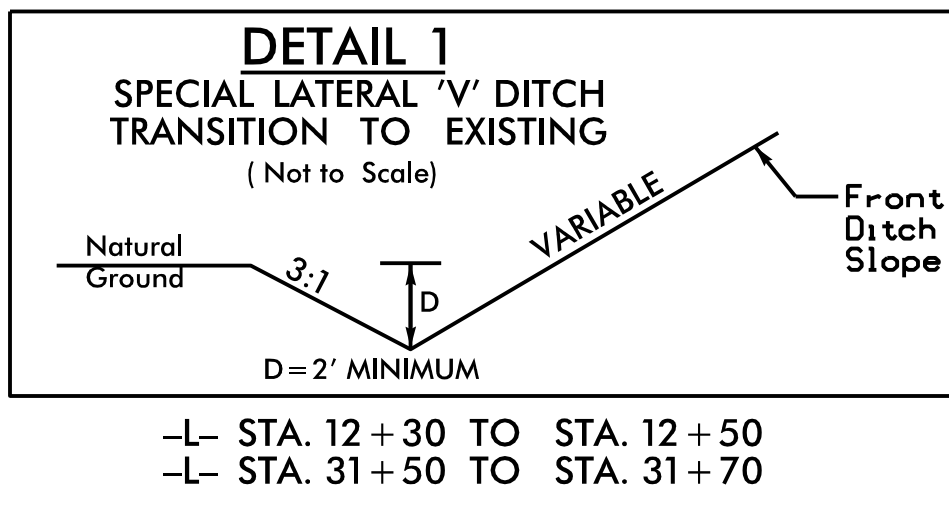
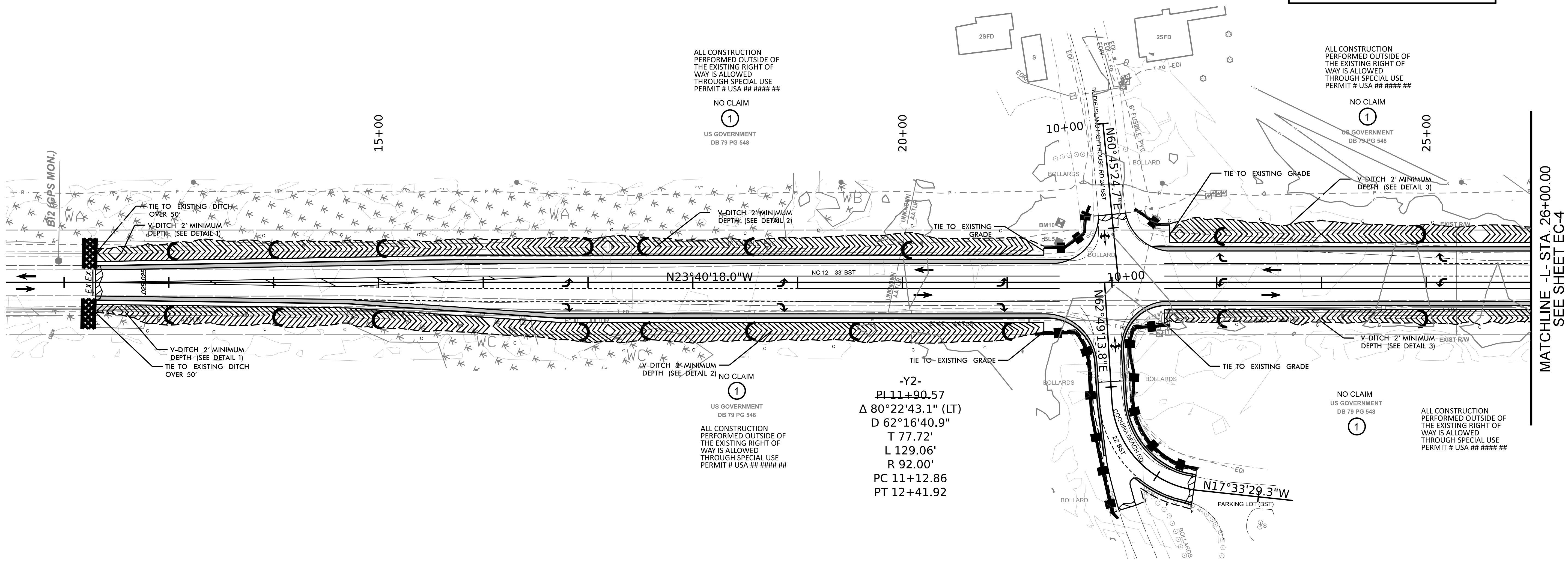
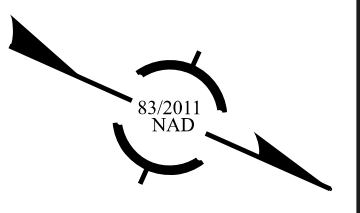
STATE OF NORTH CAROLINA

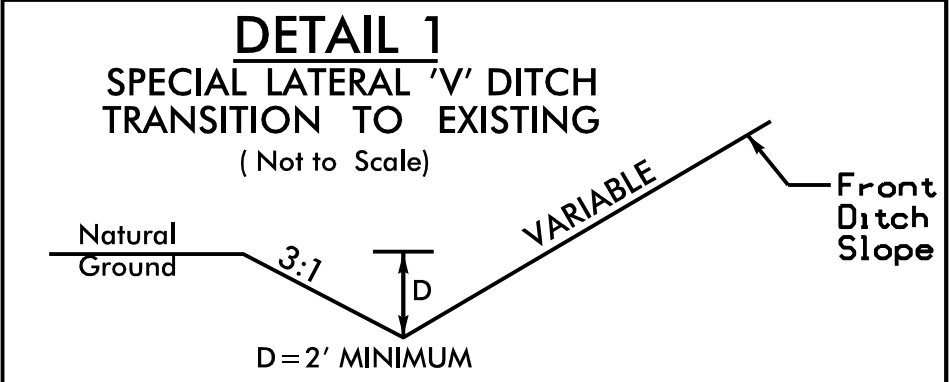


ROADWAY DESIGN UNIT

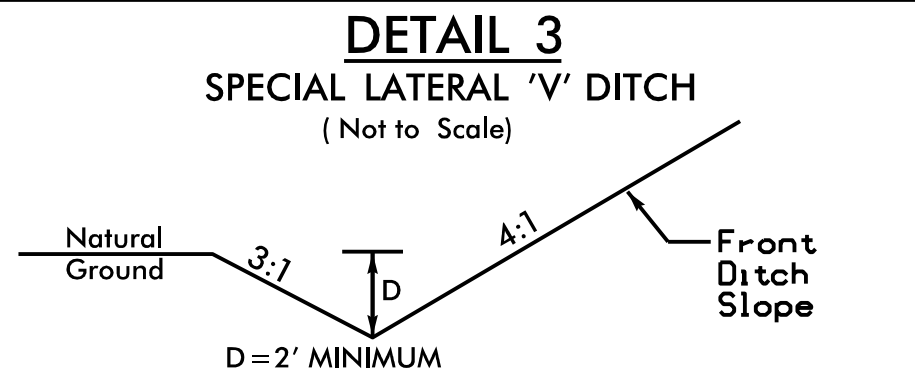
PREPARED BY

wood
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG P-1233





-L- STA. 12+30 TO STA. 12+50
-L- STA. 31+50 TO STA. 31+70



-L- STA. 22+00 to STA. 31+70

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A
AT DRAINAGE OUTLETS.

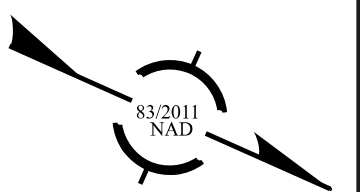
STATE OF NORTH CAROLINA



ROADWAY DESIGN UNIT

PREPARED BY

wood
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG P-1233

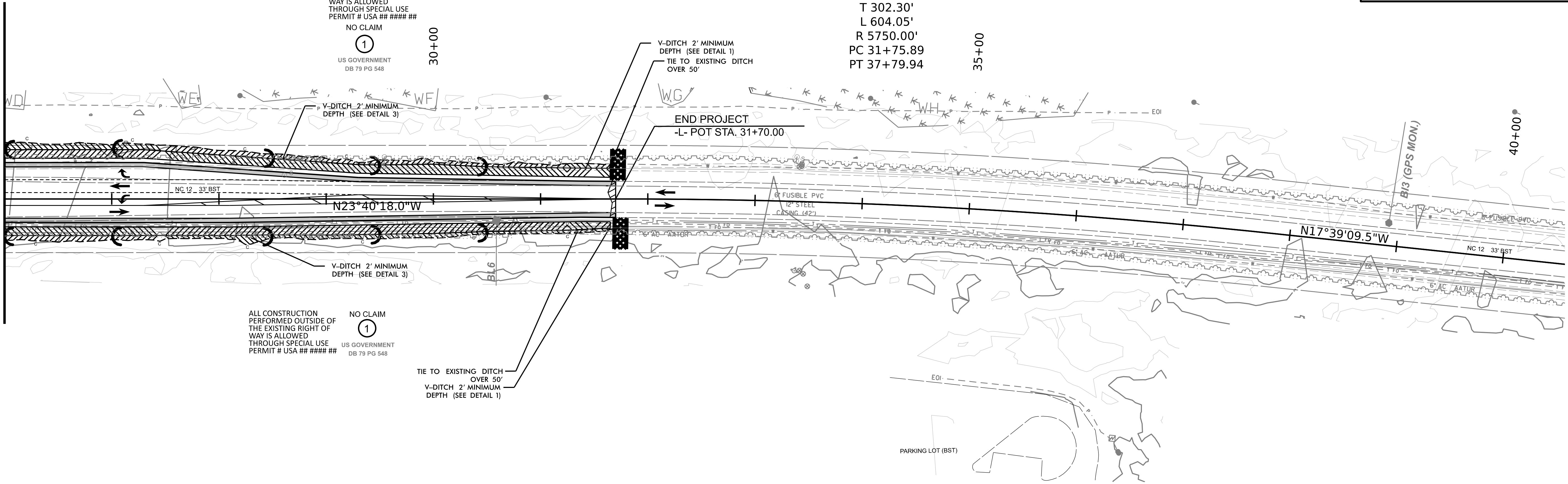


5/26/20

MATCHLINE -L- STA. 26+00.00
SEE SHEET EC-3

ALL CONSTRUCTION
PERFORMED OUTSIDE OF
THE EXISTING RIGHT OF
WAY IS ALLOWED
THROUGH SPECIAL USE
PERMIT # USA ## #### ##
NO CLAIM
①
US GOVERNMENT
DB 79 PG 548

30+00



-L-
PI 34+78.19
 Δ 06°01'08.5" (RT)
D 00°59'47.2"
T 302.30'
L 604.05'
R 5750.00'
PC 31+75.89
PT 37+79.94

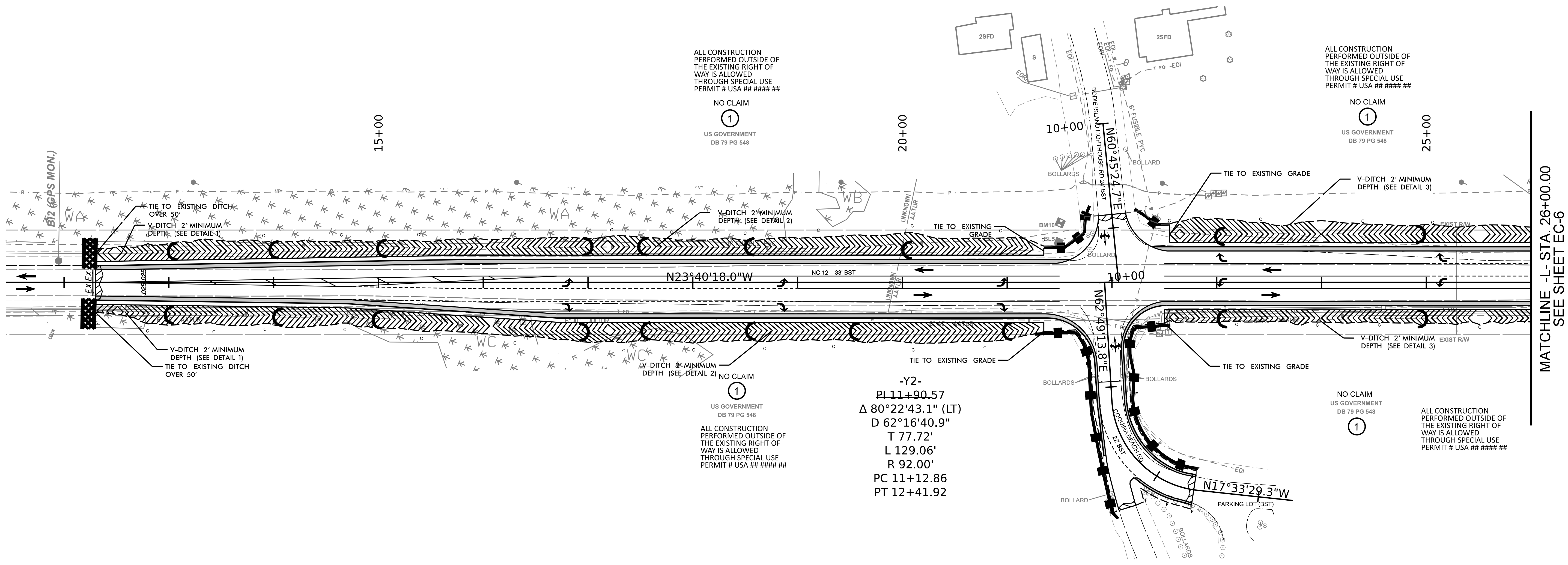
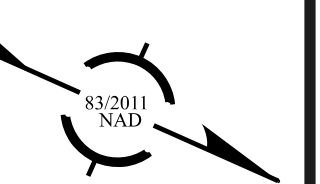
35+00

ALL CONSTRUCTION
PERFORMED OUTSIDE OF
THE EXISTING RIGHT OF
WAY IS ALLOWED
THROUGH SPECIAL USE
PERMIT # USA ## #### ##
NO CLAIM
①
US GOVERNMENT
DB 79 PG 548

TIE TO EXISTING DITCH
OVER 50'
V-DITCH 2' MINIMUM
DEPTH (SEE DETAIL 1)

PARKING LOT (BST)

40+00



ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA ## ##### ##

NO CLAIM
①
US GOVERNMENT
DB 79 PG 548

ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA ## ##### ##

NO CLAIM
①
US GOVERNMENT
DB 79 PG 548

NO CLAIM
①
US GOVERNMENT
DB 79 PG 548

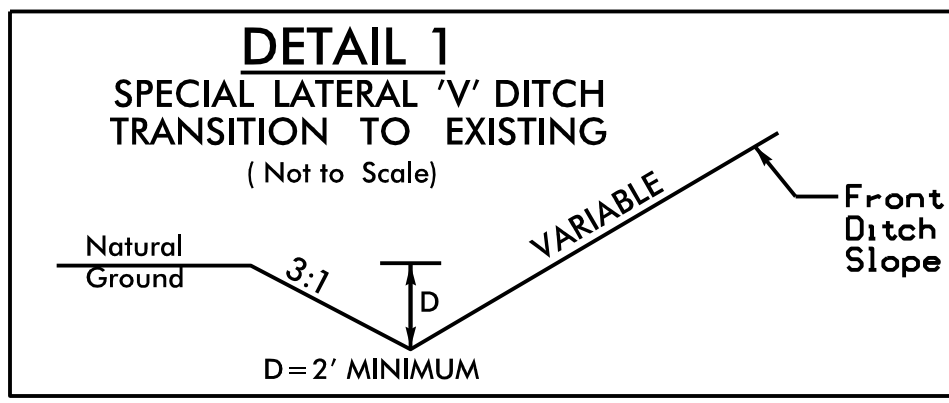
ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA ## ##### ##

-Y2-
PI 11+90.57
Δ 80°22'43.1" (LT)
D 62°16'40.9"
T 77.72'
L 129.06'
R 92.00'
PC 11+12.86
PT 12+41.92

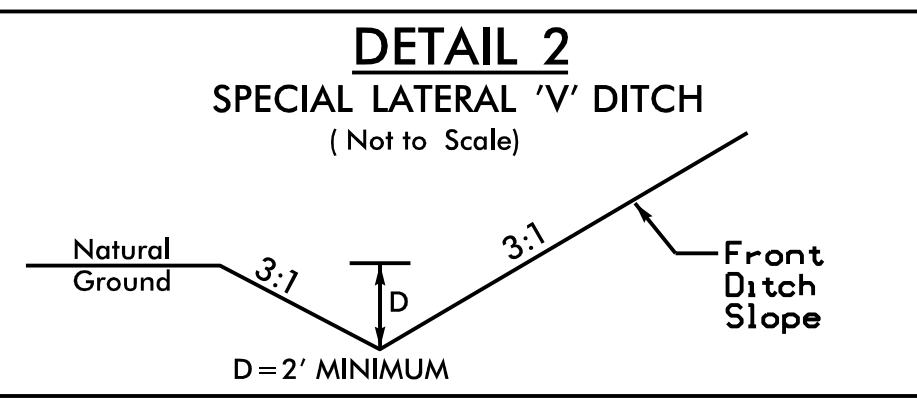
NO CLAIM
①
US GOVERNMENT
DB 79 PG 548

ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA ## ##### ##

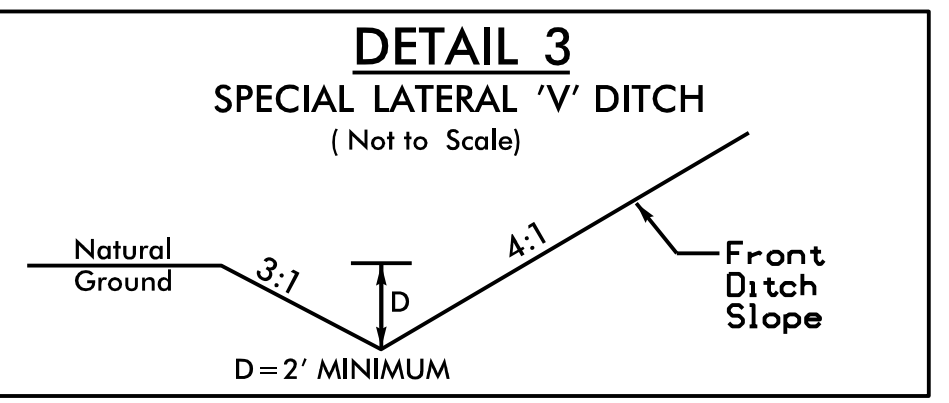
MATCHLINE -L- STA. 26+00.00
SEE SHEET EC-6



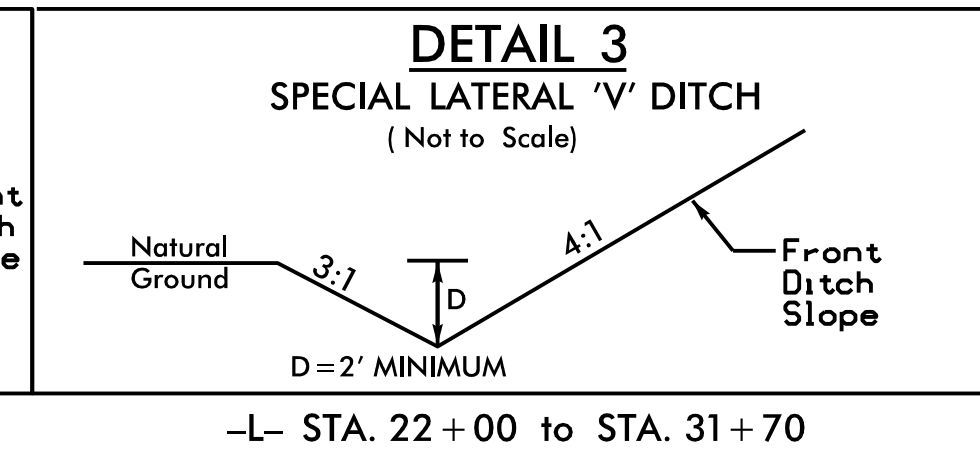
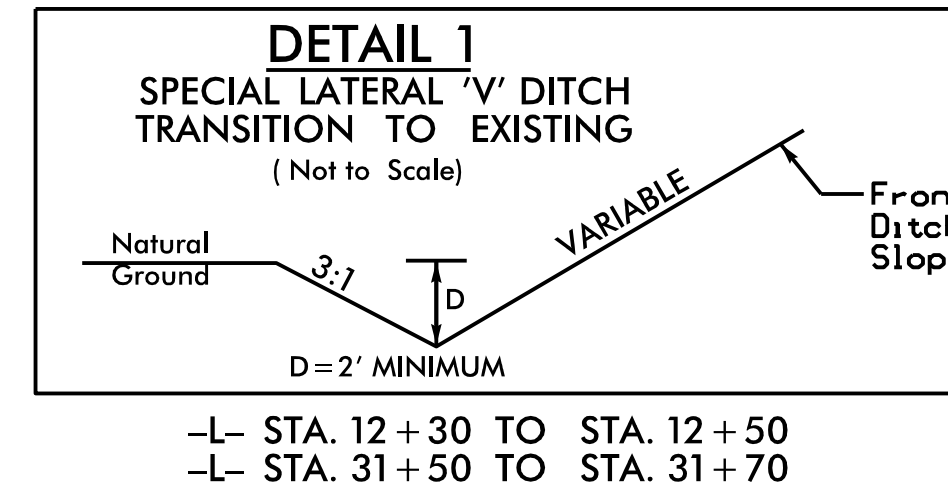
-L- STA. 12+30 TO STA. 12+50
-L- STA. 31+50 TO STA. 31+70



-L- STA. 14+70 TO STA. 22+00



-L- STA. 22+00 TO STA. 31+70

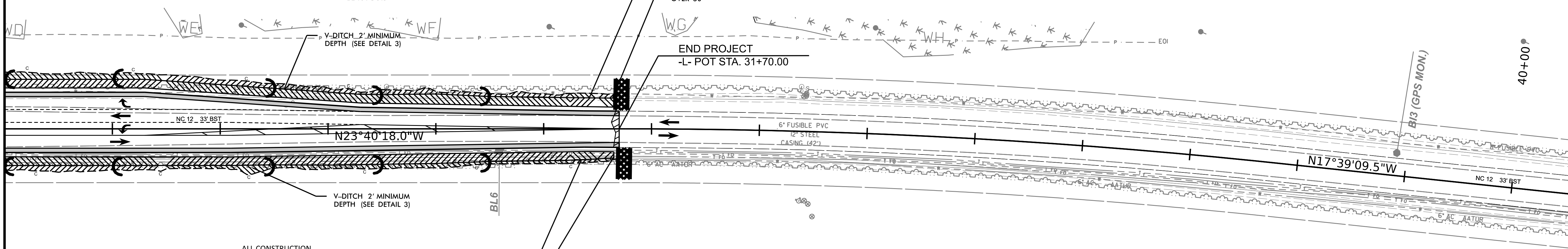


MATCHLINE -L- STA. 26+00.00
SEE SHEET EC-5

ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA ## #### ##

①
US GOVERNMENT
DB 79 PG 548

30+00



ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA ## #### ##

①
US GOVERNMENT
DB 79 PG 548

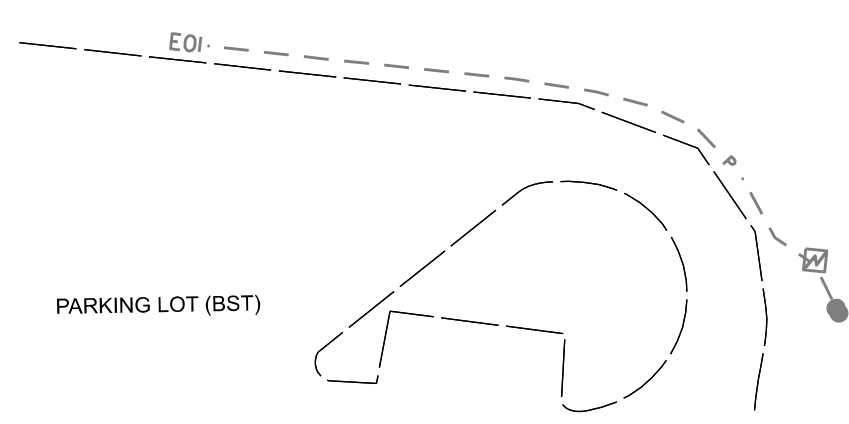
TIE TO EXISTING DITCH
OVER 50'
V-DITCH 2' MINIMUM
DEPTH (SEE DETAIL 1)

-L-
PI 34+78.19
 Δ 06°01'08.5" (RT)
D 00°59'47.2"
T 302.30'
L 604.05'
R 5750.00'
PC 31+75.89
PT 37+79.94

35+00

END PROJECT
-L- POT STA. 31+70.00

40+00



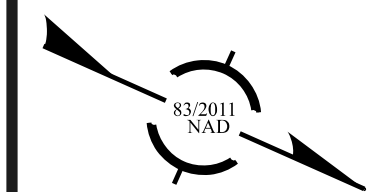
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED
STATE OF NORTH CAROLINA



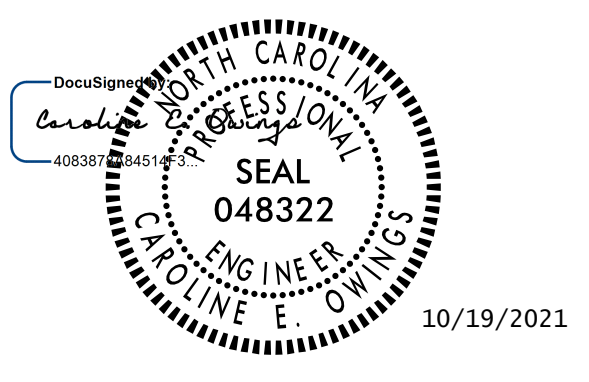

ROADWAY DESIGN UNIT

PREPARED BY

wood
4021 STIRRUP CREEK DRIVE
DURHAM, NC 27703
NC ENG P-1233



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT REFERENCE NO. B-2500C	SHEET NO. SIGN-1
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
DARE COUNTY**

DIVISION 1

**LOCATION: IMPROVEMENTS TO NC 12 AT INTERSECTION WITH
COQUINA BEACH RD. AND BODIE ISLAND LIGHTHOUSE RD.**

ROADWAY STANDARD DRAWING

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

STD. NO.	TITLE
903.20	WOOD SIGN POST
904.10	ORIENTATION OF GROUND MOUNTED SIGNS

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4082000000	903	SUPPORTS, WOOD	64	LF
4102000000	904	SIGN ERECTION, TYPE E	4	EA
4116100000	904	SIGN ERECTION, RELOCATE, TYPE D	2	EA
4141000000	907	DISPOSAL OF SUPPORT, WOOD	4	EA
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	4	EA

GENERAL NOTES

- . SIGNS FURNISHED BY CONTRACTOR.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
- . ALL EXISTING SIGNS ON WOOD POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SIGN NUMBERING

NEW SIGNS
TYPE E SIGNS.....400 SERIES

EXISTING SIGNS
GROUND MOUNTED SIGNS RELOCATED TO NEW SUPPORTS.....900 SERIES

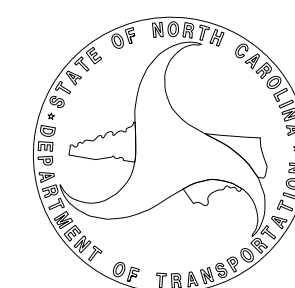
INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE 'E' SIGNS & RELOCATED SIGNS
SIGN-3	EXISTING & PROPOSED SIGNING

PROJECT CONTACTS:

CHRISTOPHER H. LEE, PE PROJECT ENGINEER

ROHAM R. LAHIJI DIVISION 1 PROJECT MANAGER



PLAN PREPARED BY: MICHAEL BAKER INTERNATIONAL

GEORGE M. KARAGEORGE, PE TRAFFIC ENGINEER-NC OPERATIONS

CAROLINE E. OWINGS, PE TRAFFIC ENGINEER

Michael Baker

INTERNATIONAL
8000 Regency Parkway, Suite 600,
Cary, NC 27518
Phone: (919) 463-5488
MBAKERINTL.COM
PROFESSIONAL CORPORATION
LICENSE NO. F-1084

10/18/2021 10:18:21 AM pw://mb-us-dw-bentley.com:mb-us-pw-07/Documents/Cary_NC/OLProjects/NC007/B-2500_32635.L4_184006/Traffic/Signing/DESIGN & PLAN SHEETS/PLAN SHEETS/B-2500_SIGN_psh_01.dgn User:Caroline.Owings

T.I.P.: B-2500C

CONTRACT: DA00522

PROJECT REFERENCE NO.	SHEET NO.
B-2500C	SIGN-2
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker INTERNATIONAL	

401 QUANTITY: 2

W2-1
30" X 30"

ONE WOOD POST PER SIGN

402 QUANTITY: 2

R1-1
30" X 30"

ONE WOOD POST PER SIGN

901 QUANTITY: 1

TWO WOOD POSTS PER SIGN

902 QUANTITY: 1

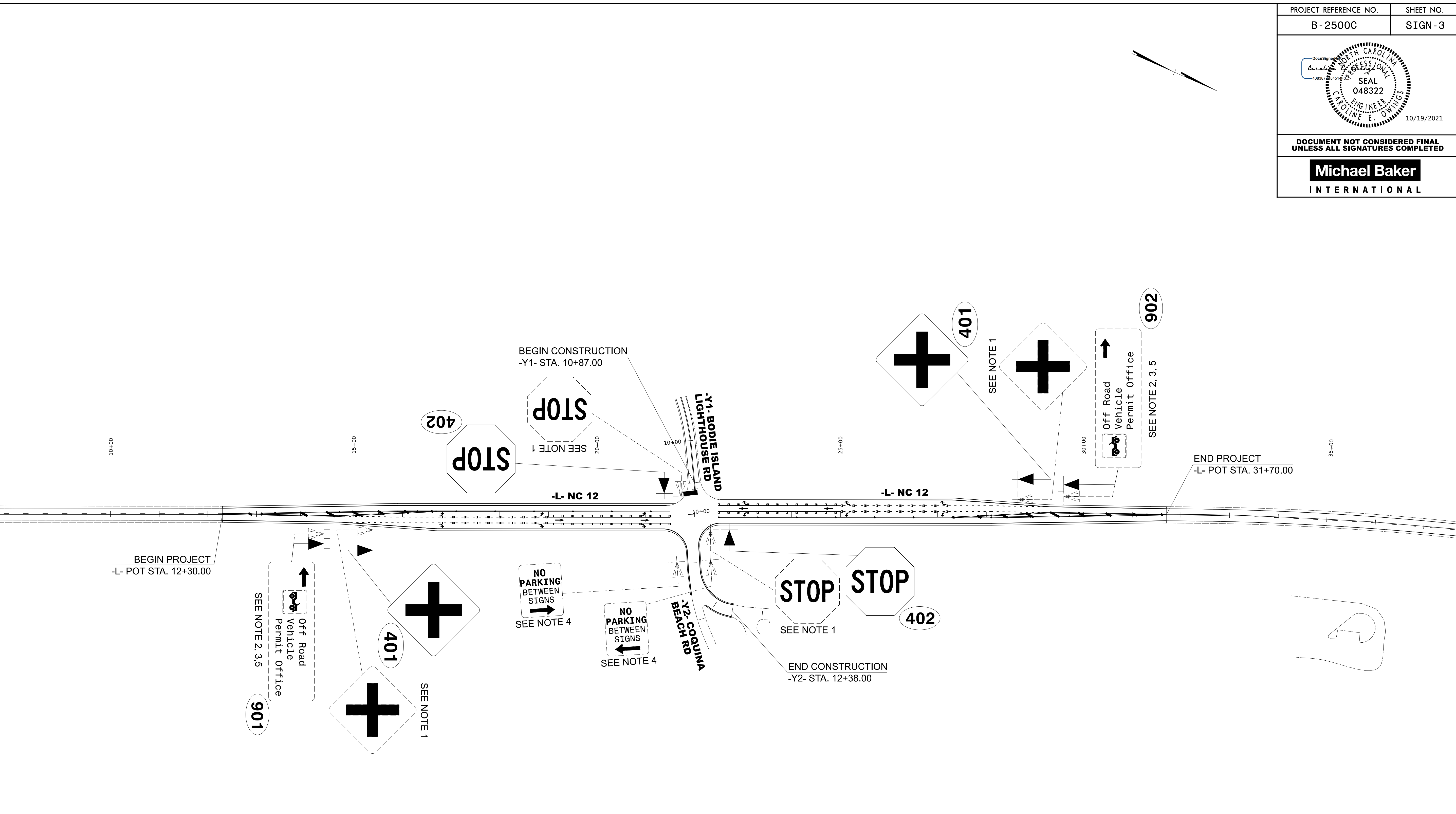
TWO WOOD POSTS PER SIGN

TYPE 'E' SIGNS &
RELOCATED SIGNS

10/18/2021
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PROJECT REFERENCE NO.	SHEET NO.
B-2500C	SIGN-3
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	
<p>Michael Baker INTERNATIONAL</p>	

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 User:Caroline.Owings



- EXISTING SIGNING NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, WOOD
 - 2 DISPOSAL OF SUPPORT, WOOD
 - 3 SIGN ERECTION, RELOCATE EXISTING TYPE D SIGN ON NEW WOOD SUPPORTS OF THE SAME SIZE AS THE EXISTING
 - 4 IF EXISTING BOLLARDS HAVE TO BE REMOVED AND RESET, THE EXISTING SIGNS MOUNTED ON THE BOLLARDS SHALL ALSO BE REMOVED AND REINSTALLED ON THE RESET BOLLARDS IN THE ORIGINAL CONFIGURATION. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE BOLLARD WORK AND WILL NOT BE PAID FOR DIRECTLY.
 - 5 "OFF ROAD VEHICLE" SIGN SHALL NOT BLOCK "INTERSECTION WARNING" SIGN.

EXISTING & PROPOSED SIGNING

TIP PROJECT: B-2500C

CONTRACT: DA00522

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

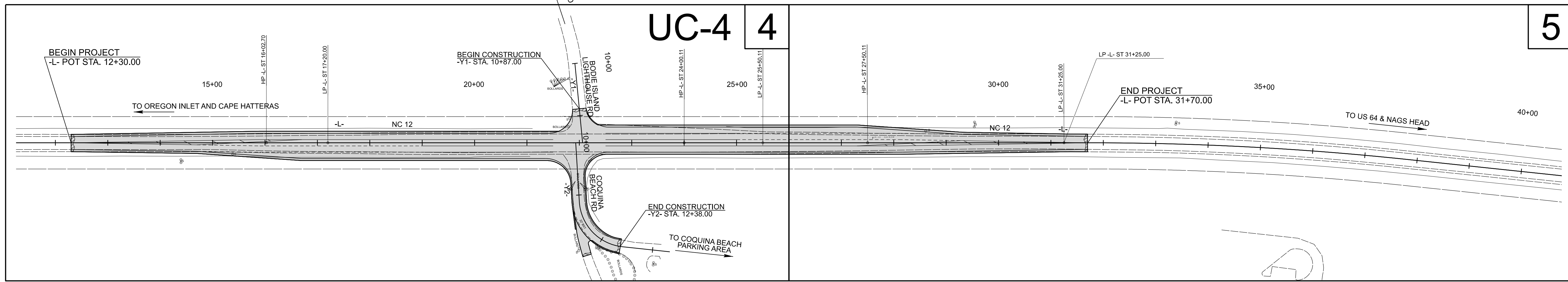
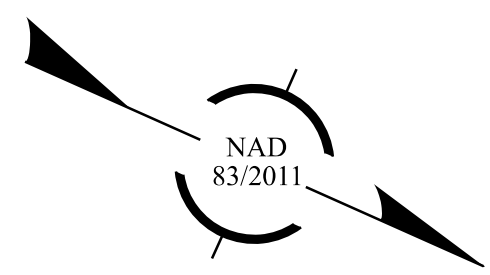
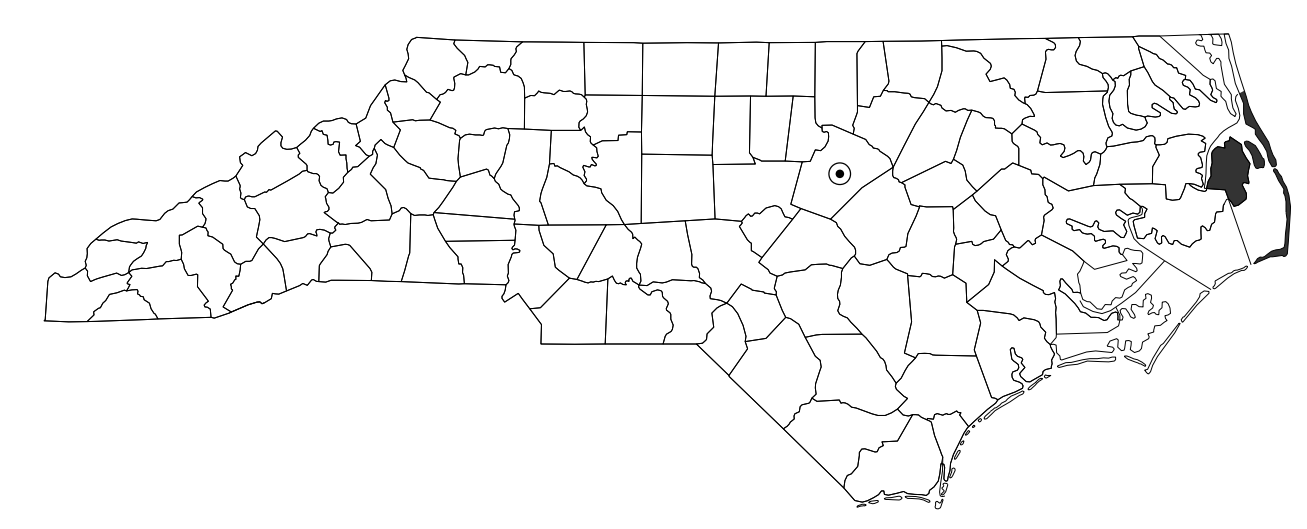
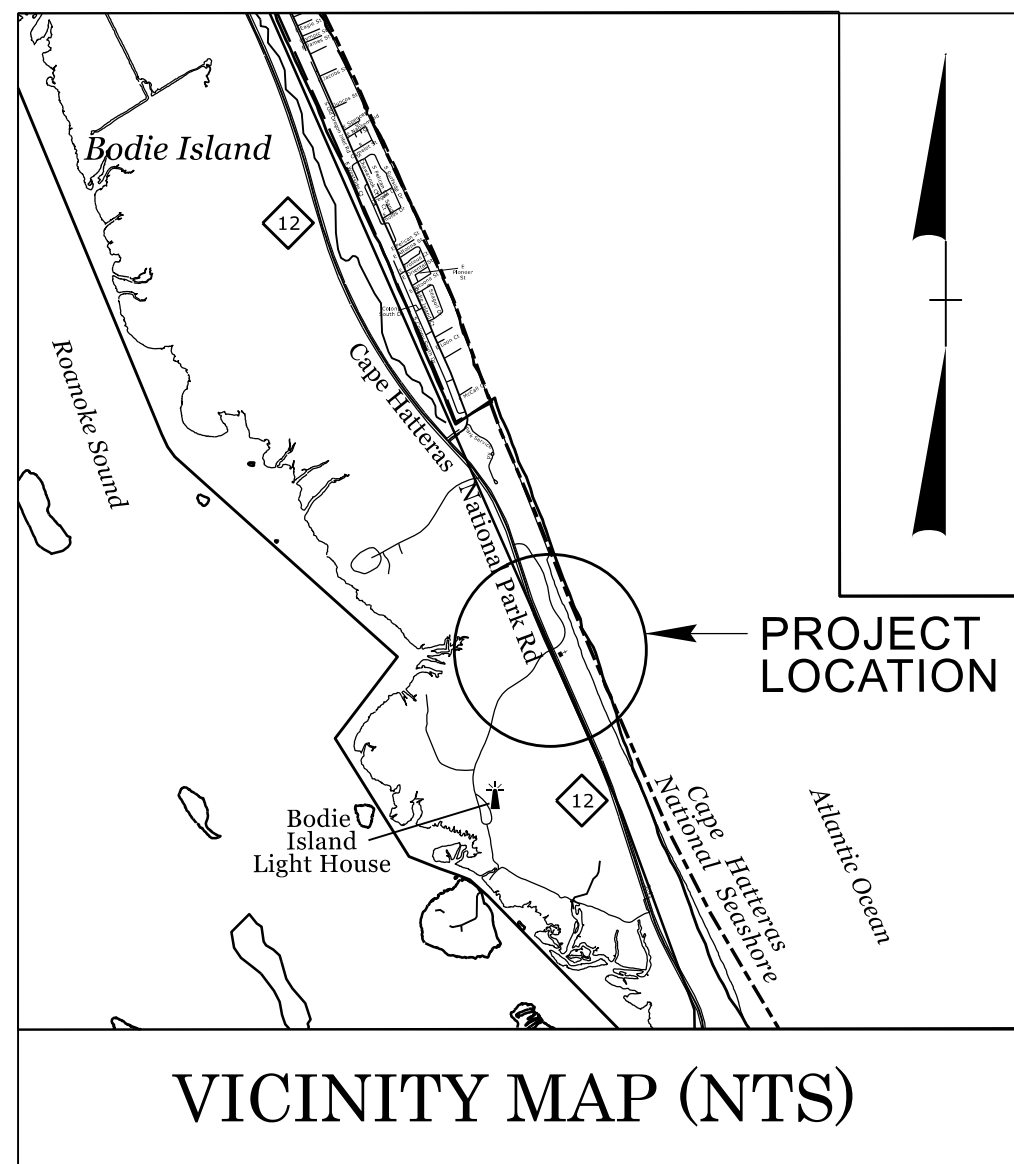
T.I.P. NO.	SHEET NO.
B-2500C	UC-1

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION PLANS DARE COUNTY

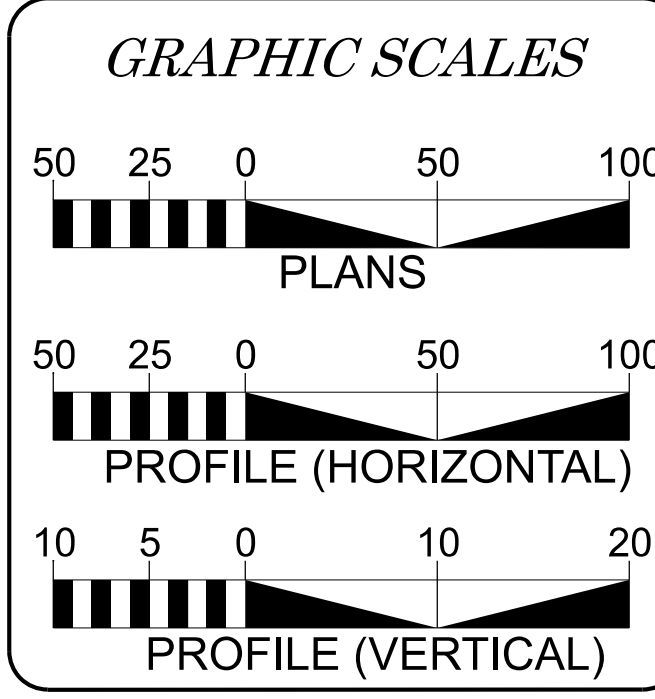
LOCATION: IMPROVEMENTS TO NC 12 AT INTERSECTION WITH COQUINA BEACH RD. AND BODIE ISLAND LIGHTHOUSE RD.

TYPE OF WORK: WATER LINE RELOCATON



UC-4 4

5



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4	UTILITY CONSTRUCTION SHEET
UC-4	PROFILE SHEET

WATER AND SEWER OWNERS ON PROJECT

(A) TOWN OF NAGS HEAD

PREPARED IN THE OFFICE OF:

HINDE ENGINEERING
 License No. C-2639
 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513
 Ph. (919) 853-0001

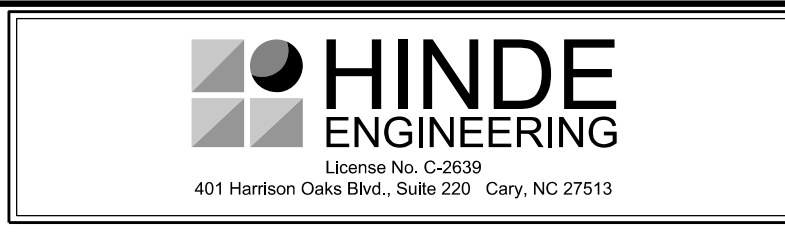
Clint L. Stevens, P.E. UTILITIES PROJECT MANAGER
 Corey D. Bousquet, P.E. UTILITIES PROJECT ENGINEER
 Jordan Chapman UTILITIES PROJECT DESIGNER

SEAL

10/6/2021

DIVISION OF HIGHWAYS
DIVISION 1
113 AIRPORT DRIVE
SUITE 100
EDENTON, NC 27932
PHONE (252) 482-1850
FAX (252) 482-8722

Barry Hobbs, PE DIVISION PROJECT TEAM LEAD
 Roham R. Lahiji DIVISION PROJECT MANAGER
 Pablo Hernandez, PE RESIDENT ENGINEER
 Daniel S. Merritt DIVISION UTILITY COORDINATOR



DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	----- 12" WL -----
11¼ Degree Bend	----- ++-----
22½ Degree Bend	----- ++X-----
45 Degree Bend	----- ++X-----
90 Degree Bend	----- ++-----
Plug	----- -----
Tee	----- ++-----
Cross	----- ++-----
Reducer	----- ►-----
Gate Valve	----- GV -----
Butterfly Valve	----- BV -----
Tapping Valve	----- TGV -----
Line Stop	----- LS -----
Line Stop with Bypass	----- LS/BP -----
Blow Off	----- BO -----
Fire Hydrant	----- PFH -----
Relocate Fire Hydrant	----- RFH -----
Remove Fire Hydrant	----- REM FH -----
Water Meter	----- PWM -----
Relocate Water Meter	----- RWM -----
Remove Water Meter	----- REM WM -----
Water Pump Station	----- PSt(W) -----
RPZ Backflow Preventer	----- RRPZ -----
DCV Backflow Preventer	----- DBFP -----
Relocate RPZ Backflow Preventer	----- RRPZ -----
Relocate DCV Backflow Preventer	----- RDBFP -----

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	----- 12" SS -----
Force Main Sewer Line (Sized as Shown)	----- 12" FSS -----
Manhole (Sized per Note)	----- • -----
Sewer Pump Station	----- PSt(SS) -----

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	----- ○ -----
Telephone Pole	----- ○ -----
Joint Use Pole	----- ○ -----
Telephone Pedestal	----- TEL PED -----
Utility Line by Others (Type as Shown)	----- PROP O/H POW LINES -----
Trenchless Installation	----- 12" TL INSTALL -----
Encasement by Open Cut	----- 24" ENCAS BY OC -----
Encasement	----- 24" ENCASEMENT -----

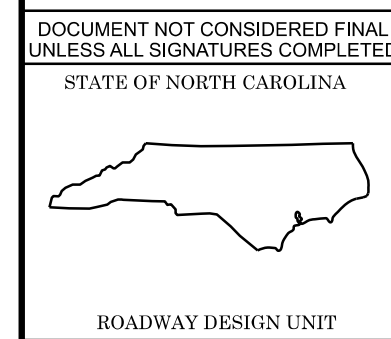
Thrust Block	----- -----
Air Release Valve	----- AR -----
Utility Vault	----- UV -----
Concrete Pier	----- CP -----
Steel Pier	----- SP -----
Plan Note	----- NOTE -----
Pay Item Note	----- PAY ITEM -----

EXISTING UTILITIES SYMBOLS

Power Pole	----- • -----
Telephone Pole	----- • -----
Joint Use Pole	----- • -----
Utility Pole	----- • -----
Utility Pole with Base	----- □ -----
H-Frame Pole	----- ●-----
Power Transmission Line Tower	----- ☒ -----
Water Manhole	----- ⊗ -----
Power Manhole	----- ⊗ -----
Telephone Manhole	----- ⊗ -----
Sanitary Sewer Manhole	----- ⊗ -----
Hand Hole for Cable	----- ☒ -----
Power Transformer	----- ☒ -----
Telephone Pedestal	----- ☒ -----
CATV Pedestal	----- ☒ -----
Gas Valve	----- ◇ -----
Gas Meter	----- ◇ -----
Located Miscellaneous Utility Object	----- ○ -----
Abandoned According to Utility Records	----- AATUR -----
End of Information	----- E.O.I. -----

*Underground Power Line	----- P -----
*Underground Telephone Cable	----- T -----
*Underground Telephone Conduit	----- TC -----
*Underground Fiber Optics Telephone Cable	----- T FO -----
*Underground TV Cable	----- TV -----
*Underground Fiber Optics TV Cable	----- TV FO -----
*Underground Gas Pipeline	----- G -----
Aboveground Gas Pipeline	----- A/G Gas -----
*Underground Water Line	----- W -----
Aboveground Water Line	----- A/G Water -----
*Underground Gravity Sanitary Sewer Line	----- SS -----
Aboveground Gravity Sanitary Sewer Line	----- A/G Sanitary Sewer -----
*Underground SS Forced Main Line	----- FSS -----
Underground Unknown Utility Line	----- ?UTL -----
SUE Test Hole	----- ⊗ -----
Water Meter	----- ○ -----
Water Valve	----- ⊗ -----
Fire Hydrant	----- ⊗ -----
Sanitary Sewer Cleanout	----- ⊗ -----

*For Existing Utilities
 Utility Line Drawn from Record (Type as Shown) -----
 Designated Utility Line (Type as Shown) -----





B-2500C
UC-3
UTILITIES DESIGN
ENGINEER

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENT OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.

2. THE EXISTING UTILITIES BELONG TO TOWN OF NAGS HEAD. THE CONTACT PERSON FOR THE TOWN OF NAGS HEAD IS MR. ERIC CLAUSSEN, MR. CLAUSSEN CAN BE REACHED BY PHONE AT (252) 449-4205.

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

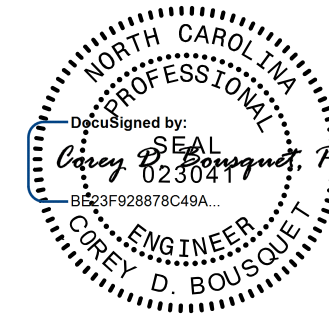
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

10. CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL ALIGNMENTS OF THE PROPOSED UTILITY TIE-IN POINTS SHOWN ON THE PLANS. ONCE THE TIE-IN POINTS AND GRADE OF PROPOSED UTILITY LINES ARE VERIFIED AS CORRECT, THE CONTRACTOR CAN BEGIN CONSTRUCTION ON THE PROPOSED UTILITY LINES.

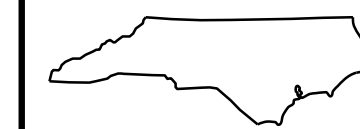
PROJECT SPECIFIC NOTES:

1. PROPOSED 8" WATER LINE SHALL BE FUSIBLE PVC WATER PIPE, C900, DR 18 WITH RESTRAINED JOINT DI FITTINGS AT THE BENDS AND SLEEVES



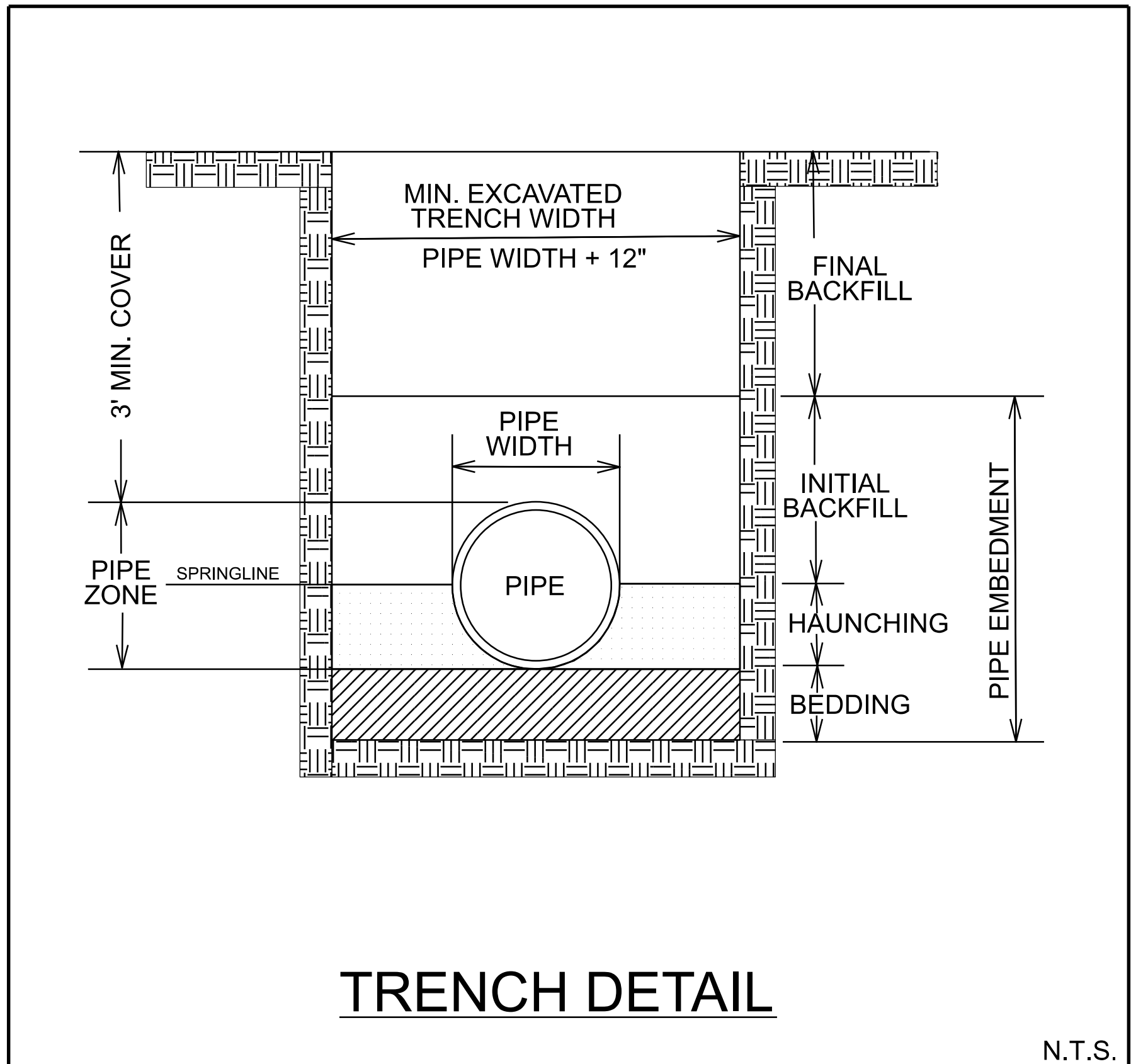
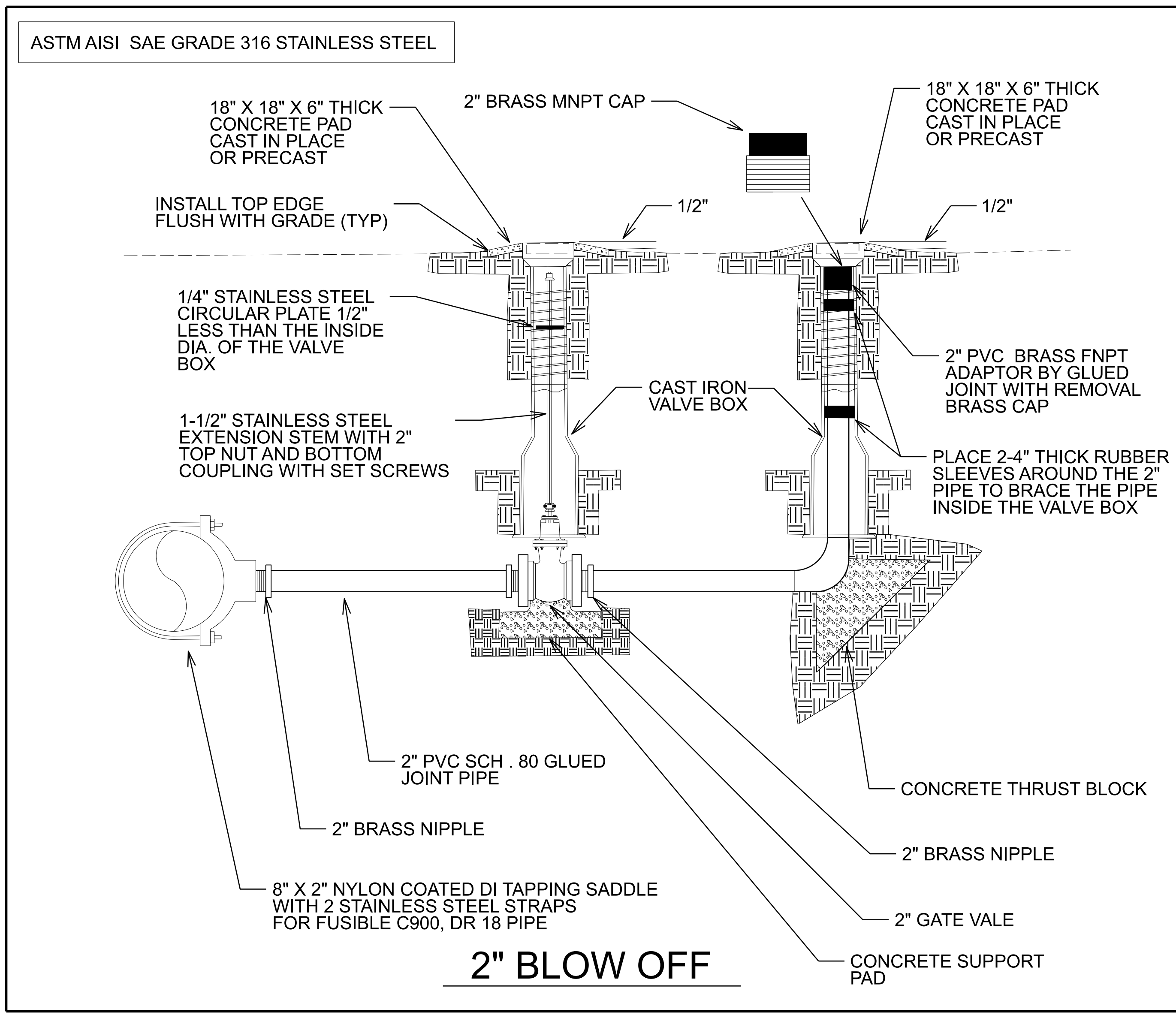
10/18/2021

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED
STATE OF NORTH CAROLINA



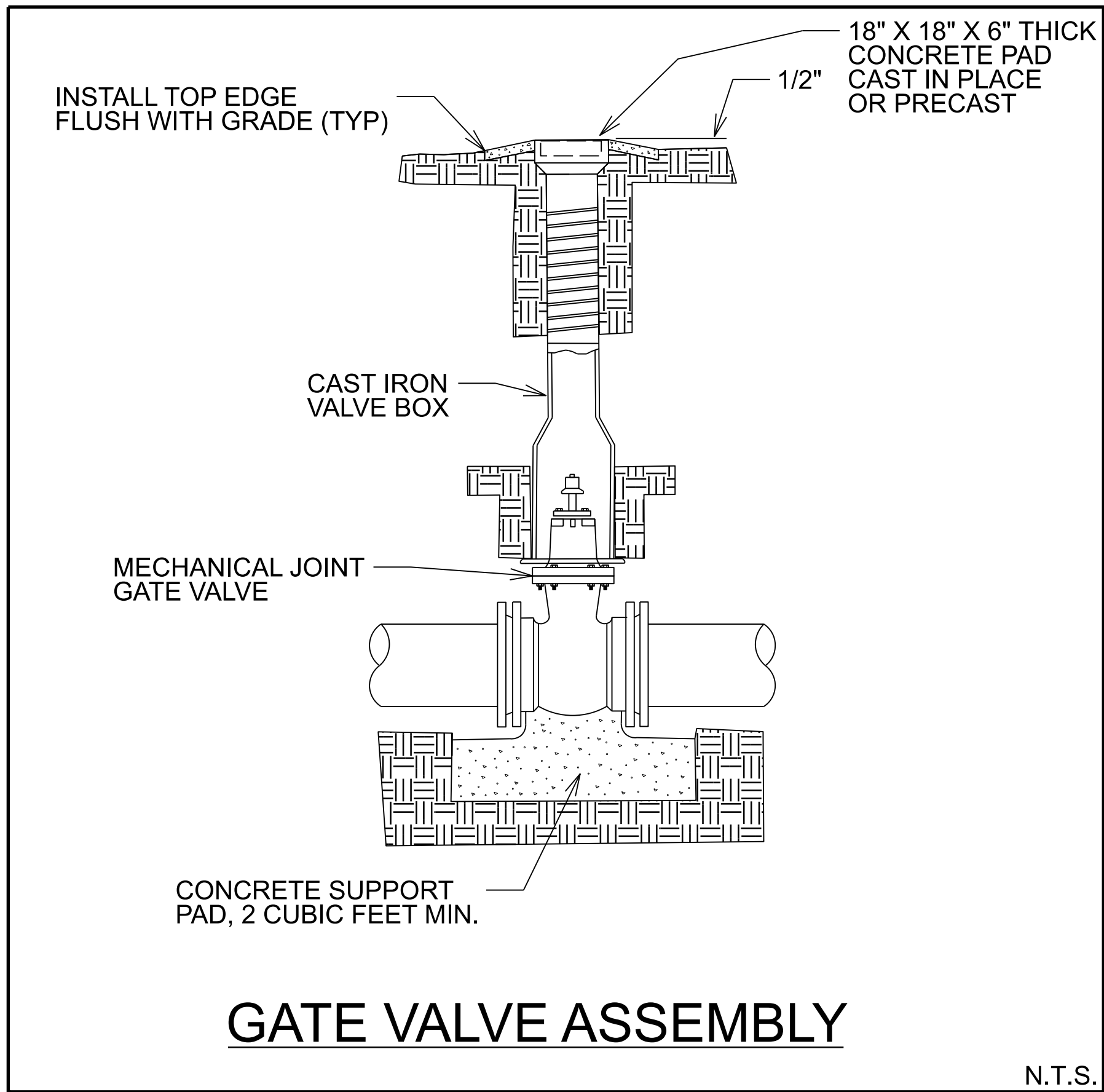
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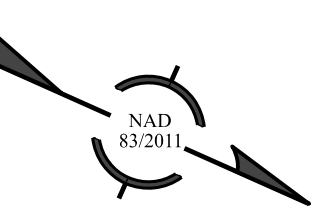
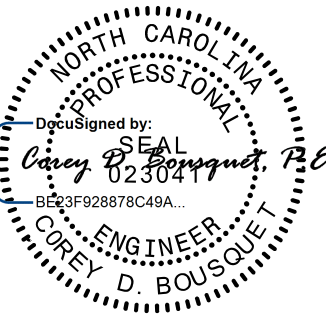
PROJECT TYPICAL DETAILS



MAXIMUM TRENCH WIDTH AT TOP OF PIPE

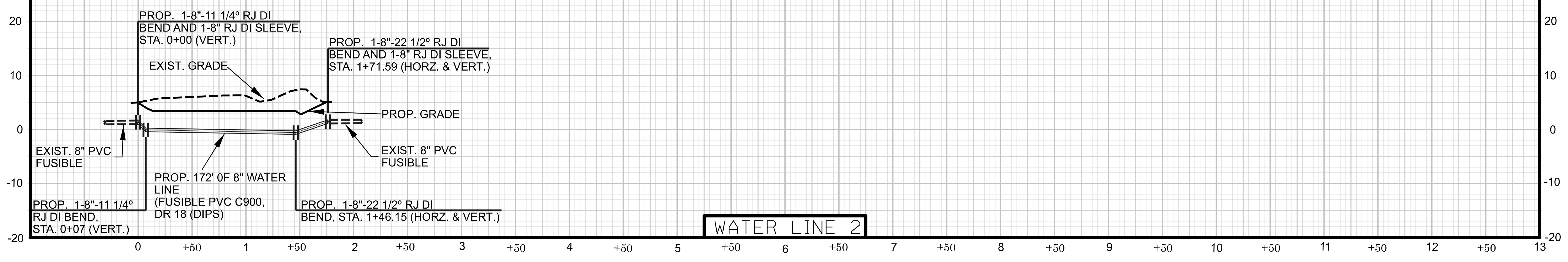
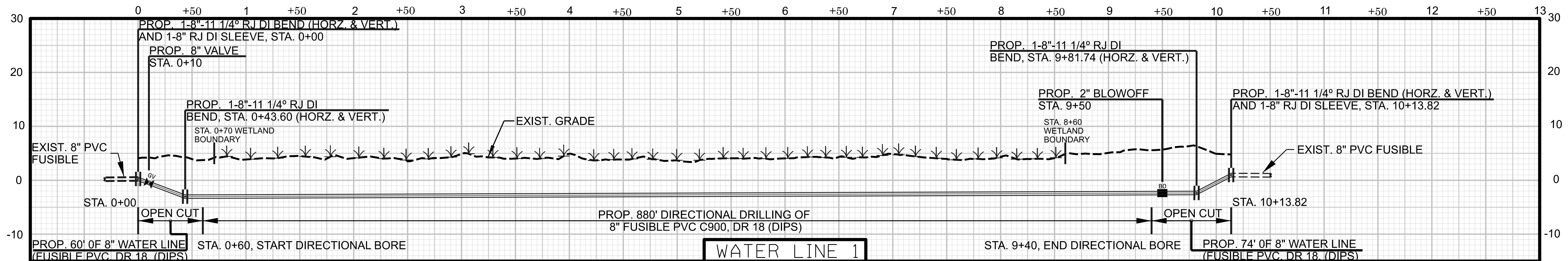
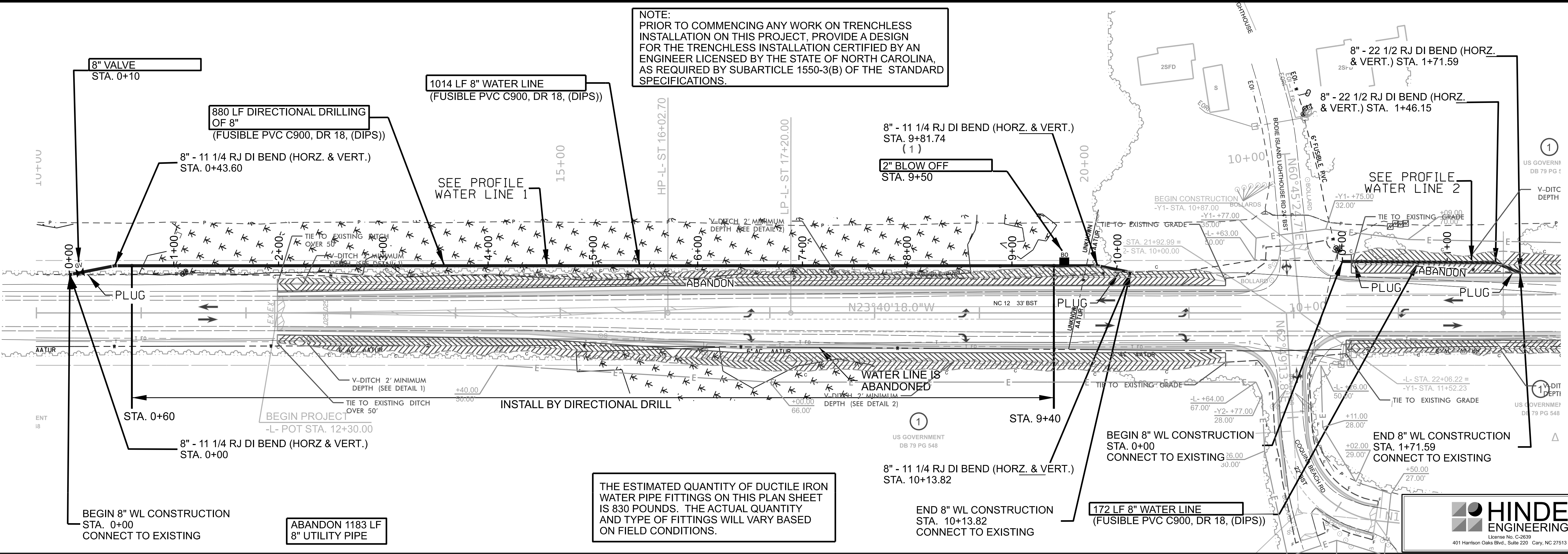
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		





NOTE: PRIOR TO COMMENCING ANY WORK ON TRENCHLESS INSTALLATION ON THIS PROJECT, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 830 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



CONTRACT: DA00552
 TIP PROJECT: B-2500C

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLANS
DARE COUNTY**

LOCATION: *IMPROVEMENTS TO NC 12 AT INTERSECTION WITH COQUINA BEACH RD. AND BODIE ISLAND LIGHTHOUSE RD.*

TYPE OF WORK: *TELECOM*

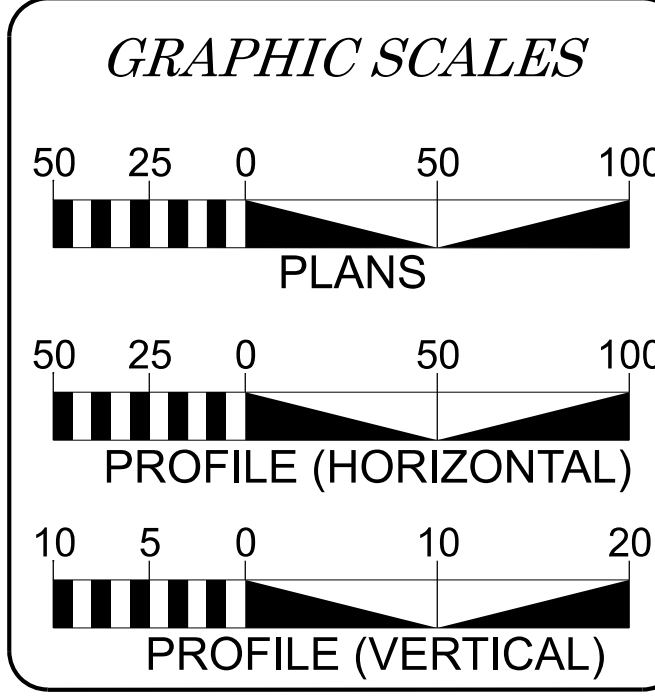
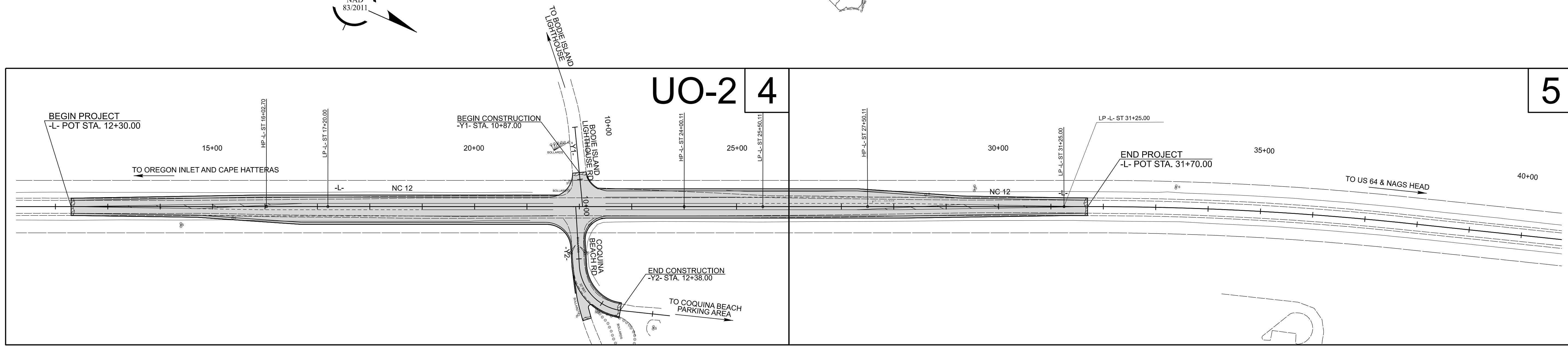
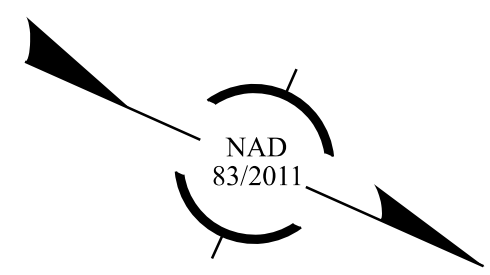
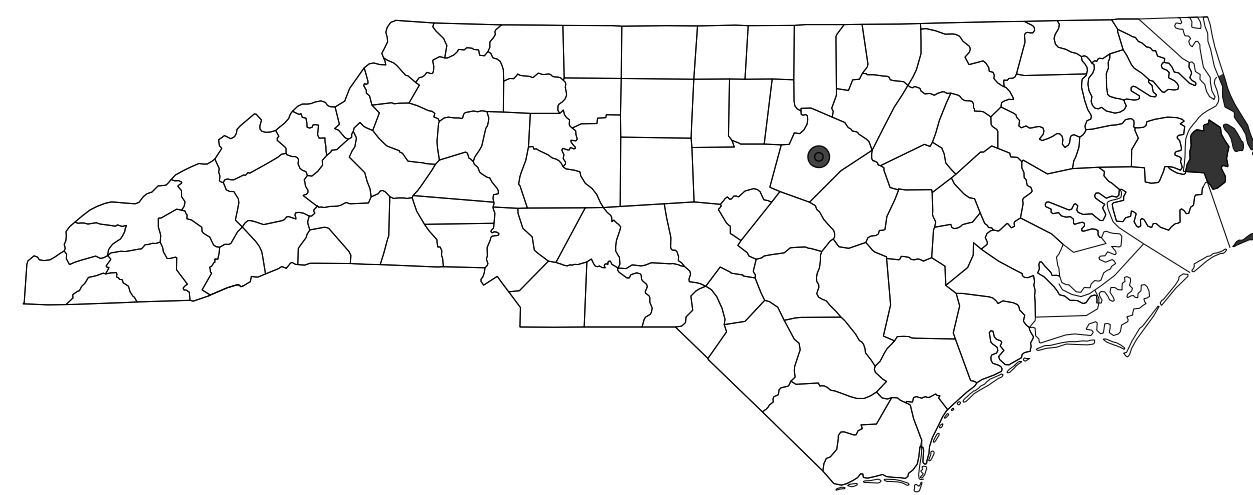
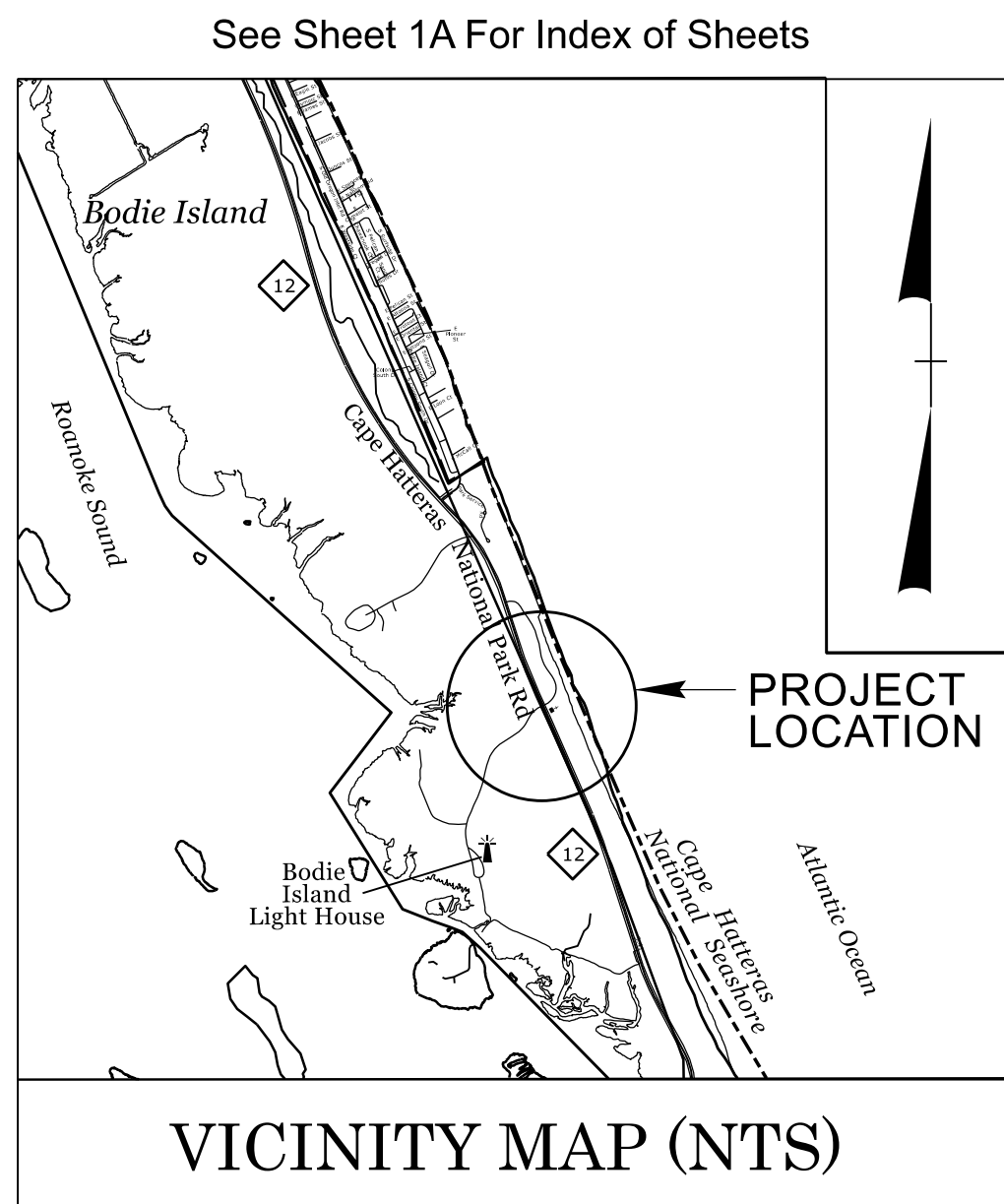
T.I.P. NO.	SHEET NO.
B-2500C	UO-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET IS DONE BY OTHERS.
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

NOTE TO REVIEWER:

PRINT STYLE AND PSET DEVELOPMENT IS STILL IN PROGRESS BY NCDOT FOR ORD DEVELOPED SHEETS AND CROSS SECTIONS. PLOTTING IN THIS SET IS ACCOMPLISHED USING NCDOT'S DEVELOPMENTAL STANDARDS FOR PLAN-ELEVATION AND CROSS SECTION SHEETS.

THE CROSS SECTION SUMMARY SHEET HAS NOT BEEN PROVIDED IN THIS PLAN SET. THE SUMMARY OF EARTHWORK QUANTITIES ARE SHOWN IN SHEET 2B-1.



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

(A) TELECOM - CENTURYLINK

PREPARED IN THE OFFICE OF:

License No. C-2639
401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513
(919)-853-0001

Michael E. Davis UTILITY COORDINATION PROJECT MANAGER
Harris Winters PROJECT UTILITY COORDINATOR
James N. Arnold PROJECT UTILITY DESIGNER

**DIVISION OF HIGHWAYS
DIVISION 1**
113 AIRPORT DRIVE
SUITE 100
EDENTON, NC 27932
PHONE (252) 482-1850
FAX (252) 482-8722

Barry Hobbs, PE DIVISION PROJECT TEAM LEAD
Roham R. Lahiji DIVISION PROJECT MANAGER
Pablo Hernandez, PE RESIDENT ENGINEER
Daniel S. Merritt DIVISION UTILITY COORDINATOR

UBO PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. ALL PROPOSED RELOCATION INFORMATION SHOWN ON THE UBO PLANS WAS PROVIDED BY 3RD PARTIES. HINDE ENGINEERING, INC. ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE ACCURACY OR VALIDITY OF 3RD PARTY INFORMATION PROVIDED.

UTILITIES BY OTHERS

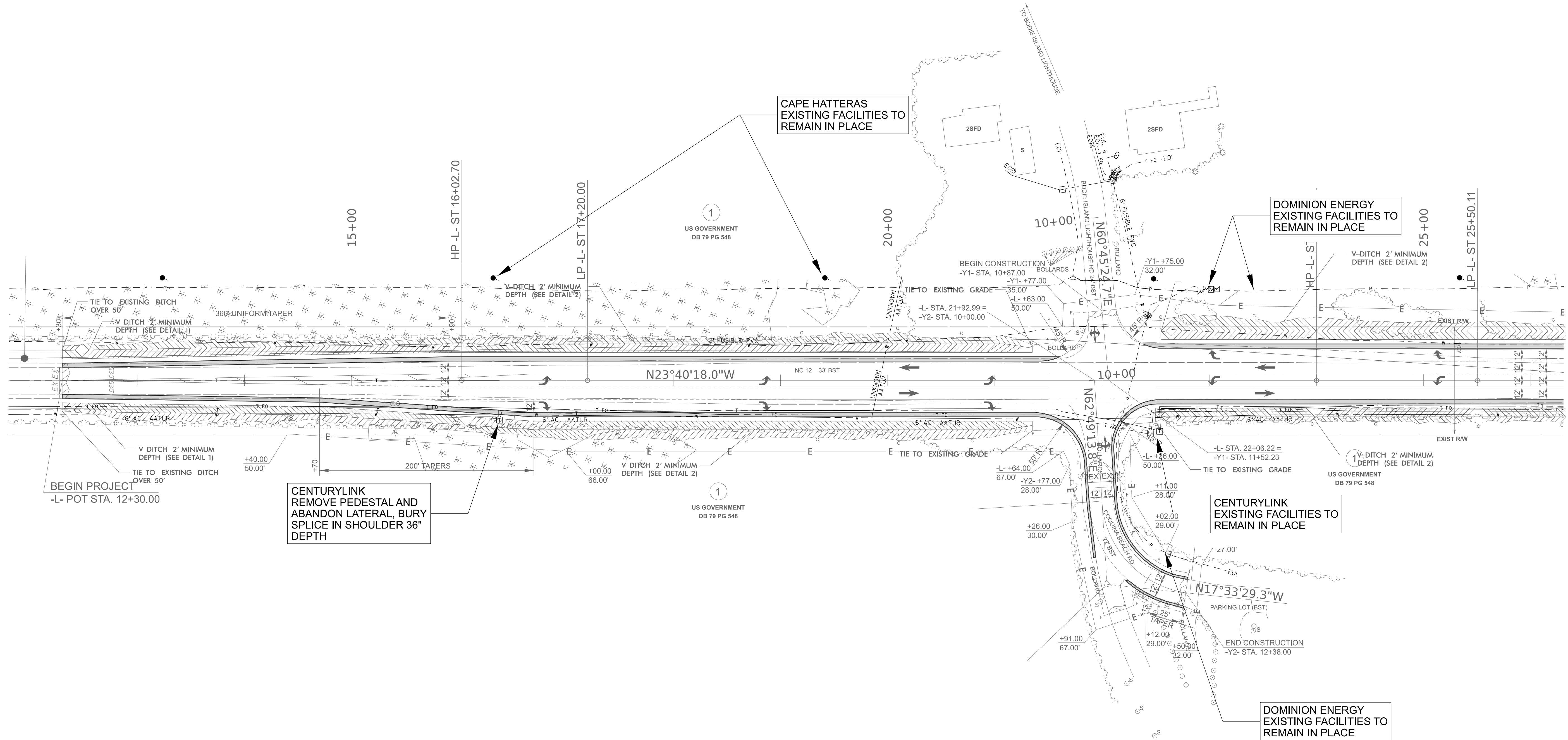
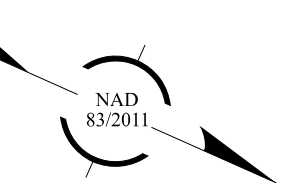
B-2500C
UO-2

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

STATE OF NORTH CAROLINA



ROADWAY DESIGN UNIT



HINDE ENGINEERING
 License No. C-2639
 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

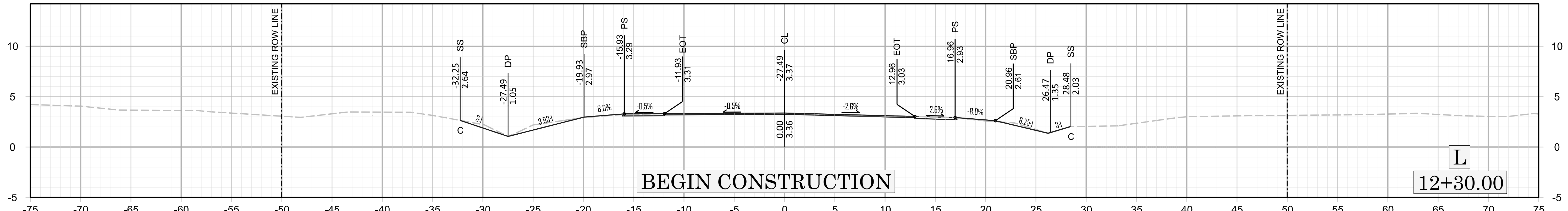
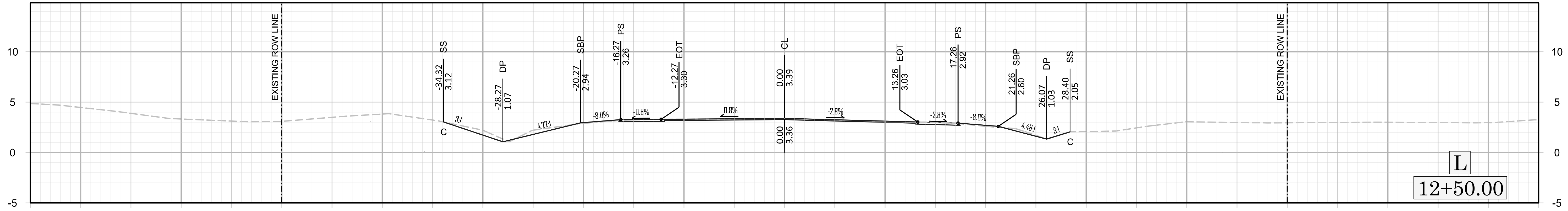
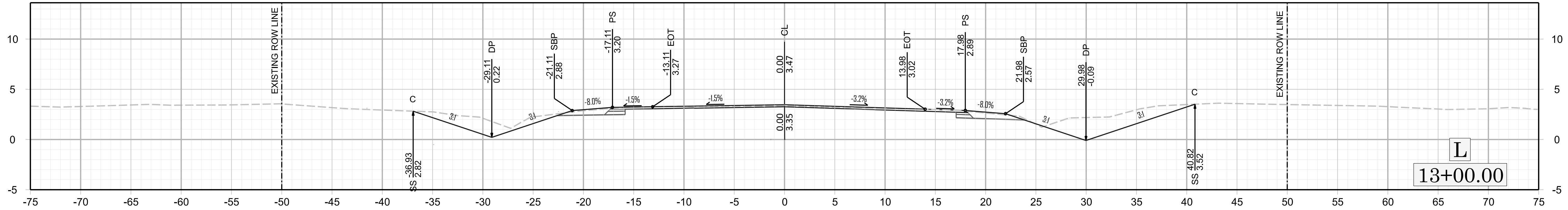
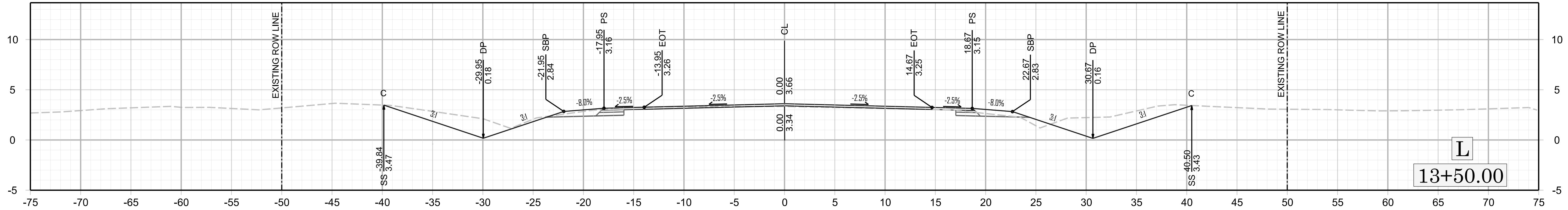
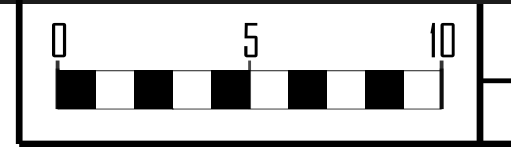
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

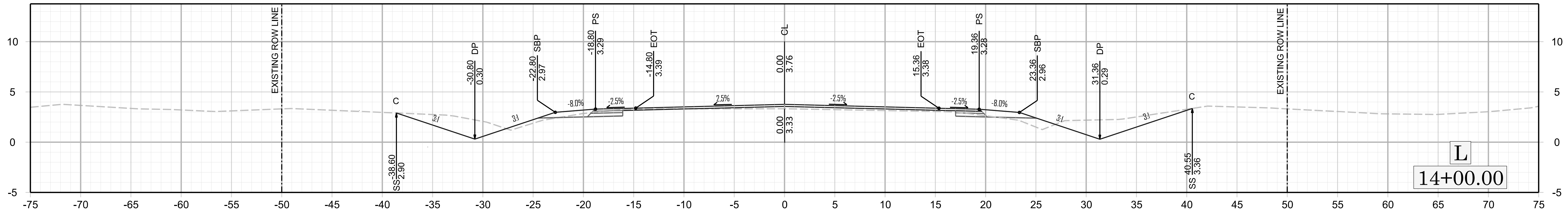
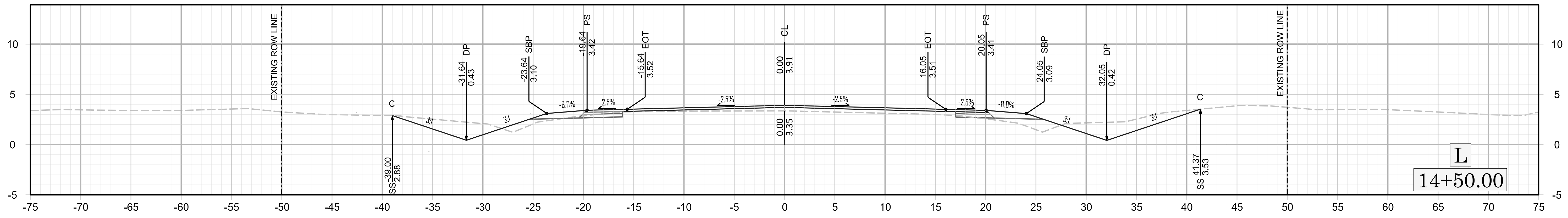
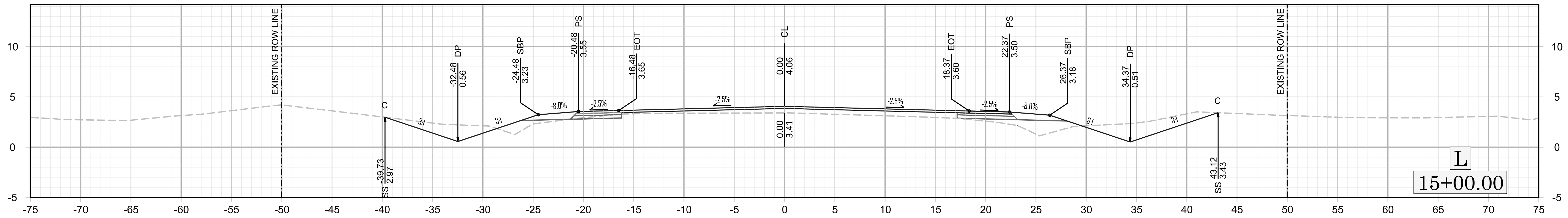
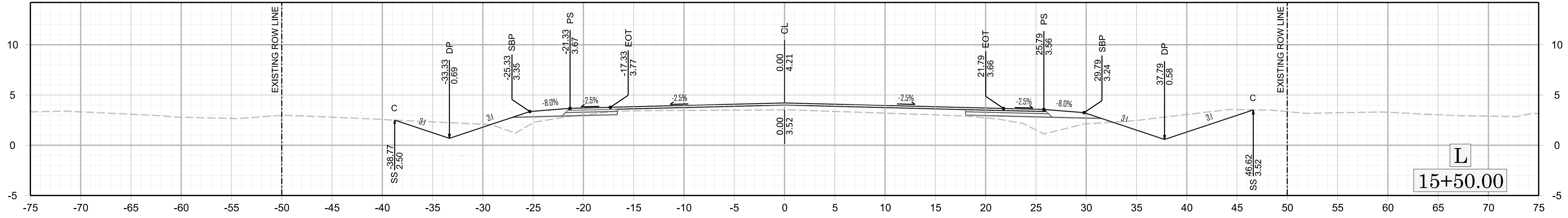
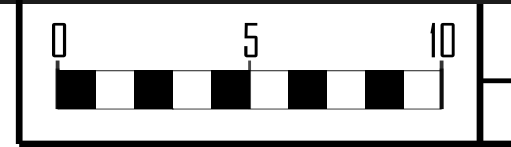
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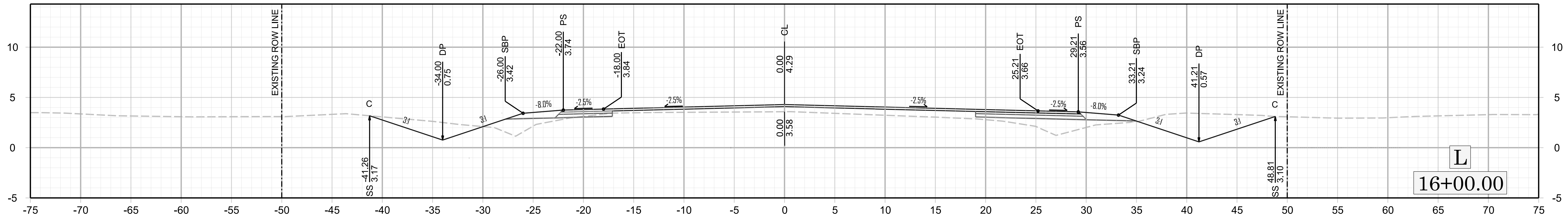
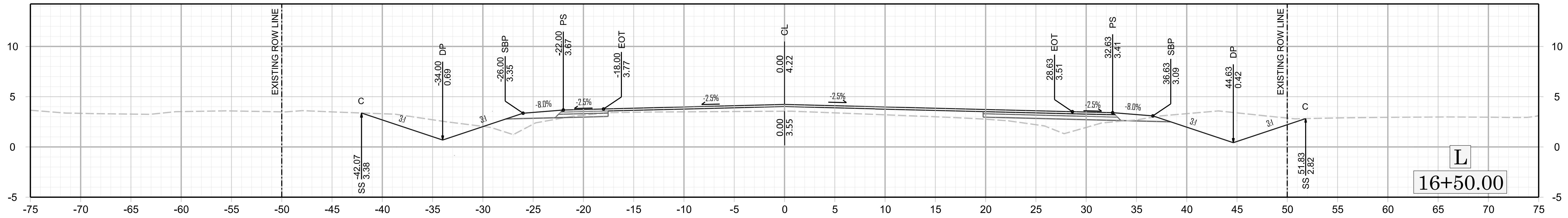
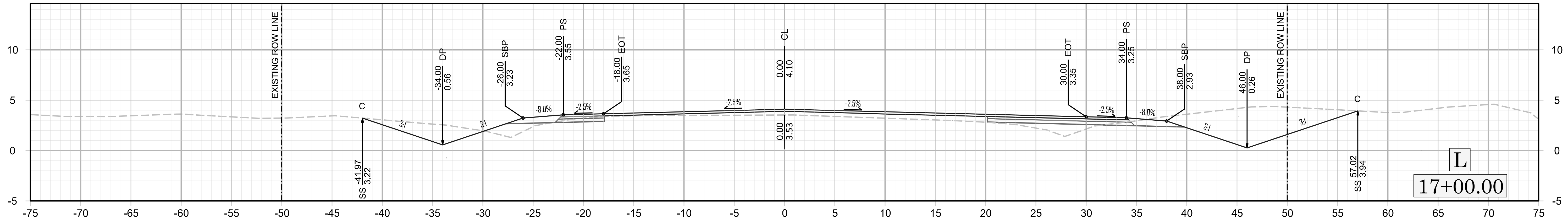
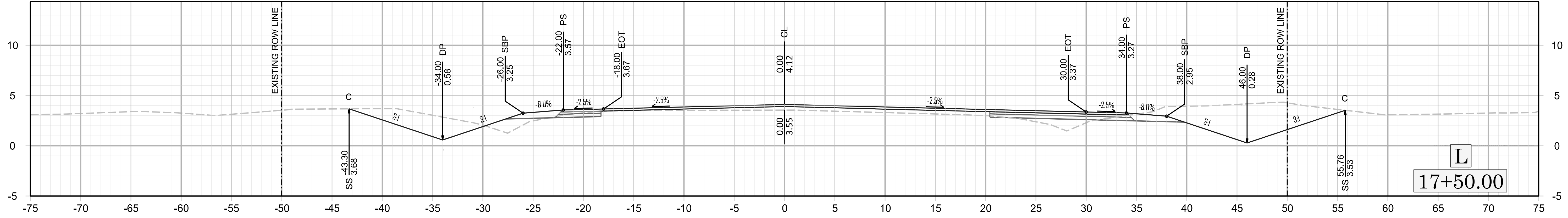
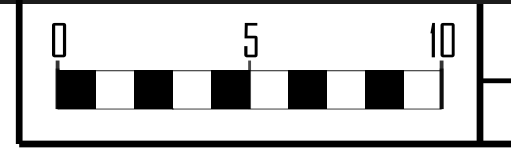
**APPROXIMATE QUANTITIES ONLY. CLEARING AND GRUBBING,
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PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".**

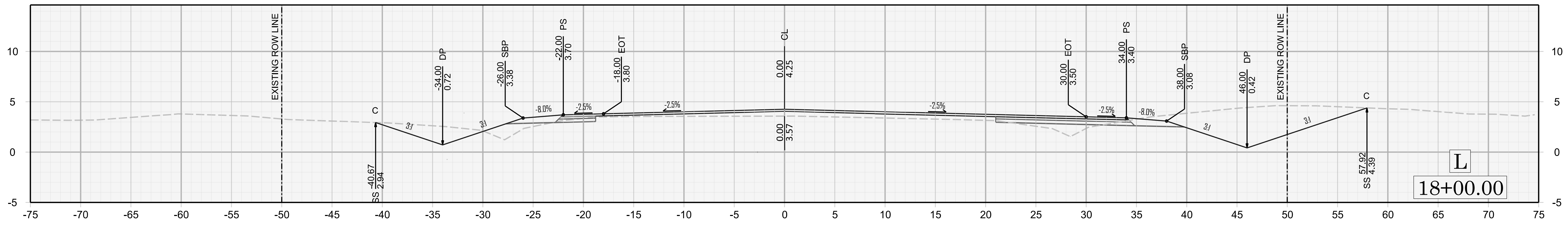
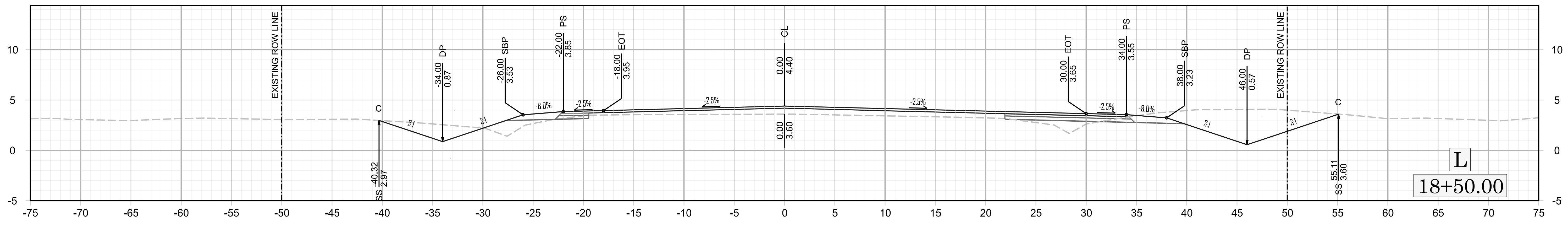
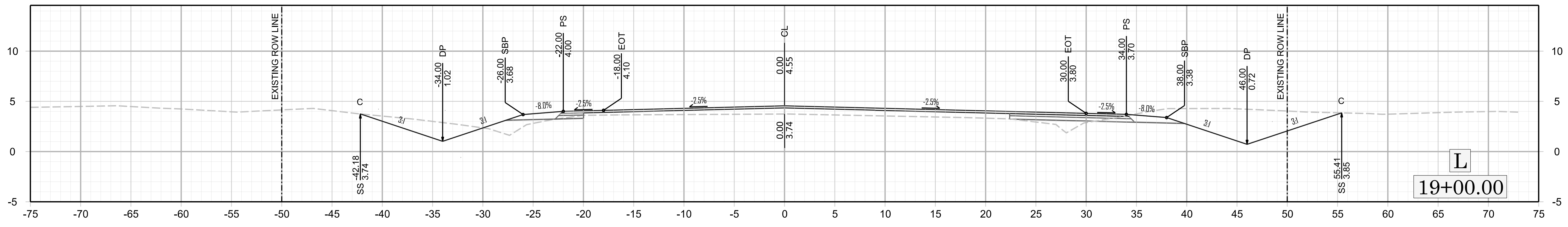
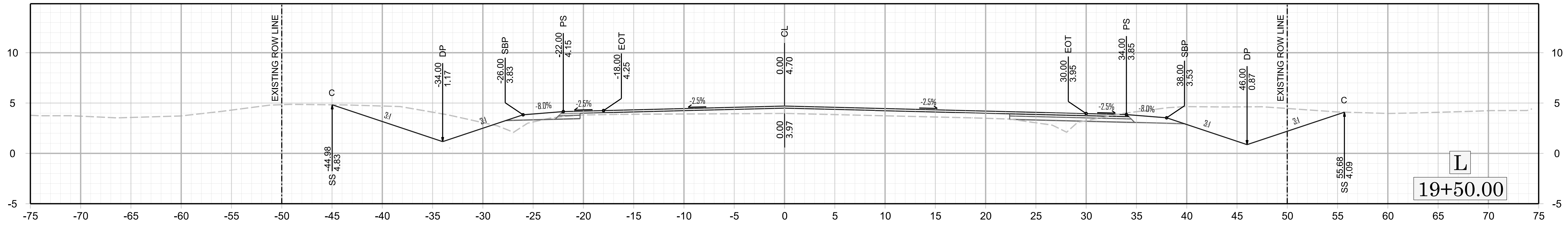
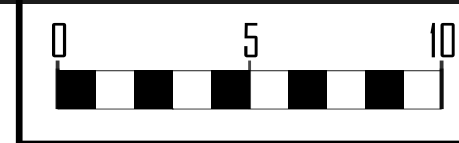
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L	(cu. yd.)	(cu. yd.)												
12+30.00	10	0												
12+50.00	51	1												
13+00.00	73	2												
13+50.00	60	9												
14+00.00	49	21												
14+50.00	45	35												
15+00.00	45	50												
15+50.00	54	57												
16+00.00	66	57												
16+50.00	88	48												
17+00.00	113	36												
17+50.00	115	37												
18+00.00	99	45												
18+50.00	92	51												
19+00.00	113	48												
19+50.00	132	34												
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20+50.00	96	33												
21+00.00	39	27												
21+50.00	0	22												
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22+50.00	39	35												
23+00.00	67	54												
23+50.00	80	66												
24+00.00	82	65												
24+50.00	69	51												
25+00.00	75	37												
25+50.00	60	38												
26+00.00	38	53												
26+50.00	26	73												
27+00.00	26	91												
27+50.00	21	89												
28+00.00	13	79												
28+50.00	38	44												
29+00.00	37	32												
29+50.00	9	52												
30+00.00	8	41												
30+50.00	10	23												
31+00.00	12	11												
31+50.00	4	3												
31+70.00	0	0												
Station	Uncl. Exc.	Embt												
Y2	(cu. yd.)	(cu. yd.)												
10+25.00	0	0												
10+50.00	36	7												
11+00.00	23	3												
11+50.00	14	3												
12+00.00	11	2												
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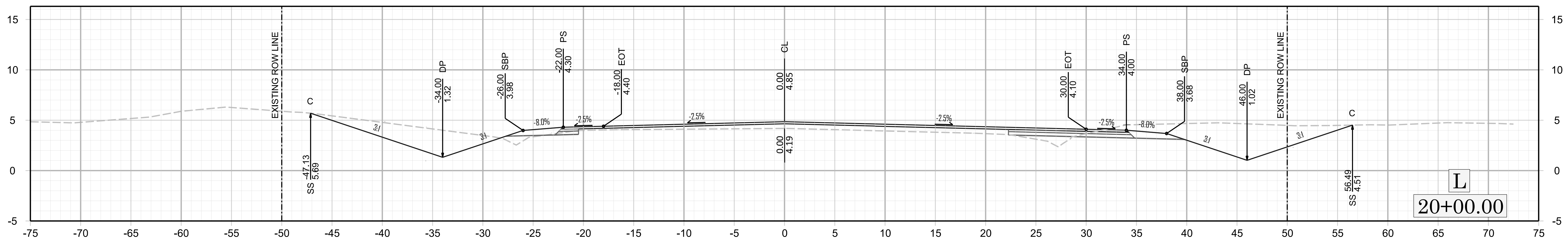
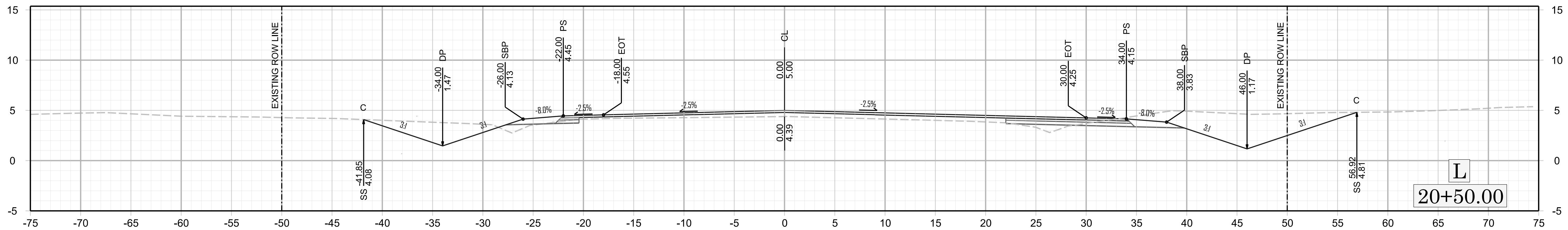
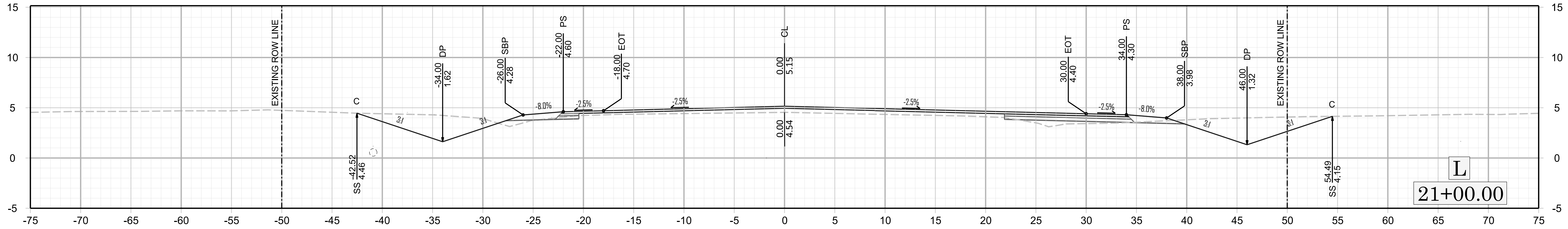
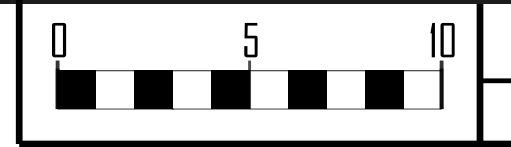


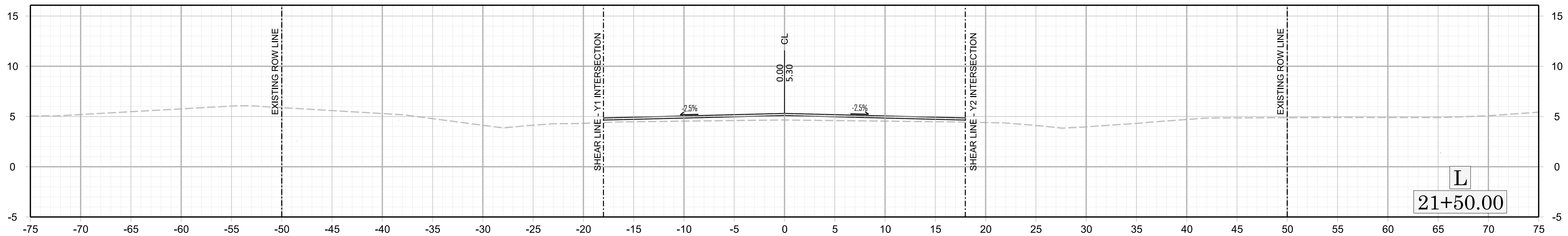
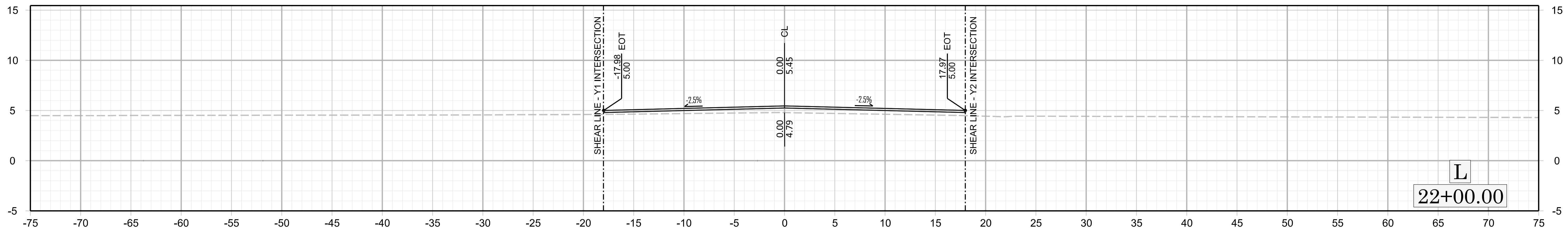
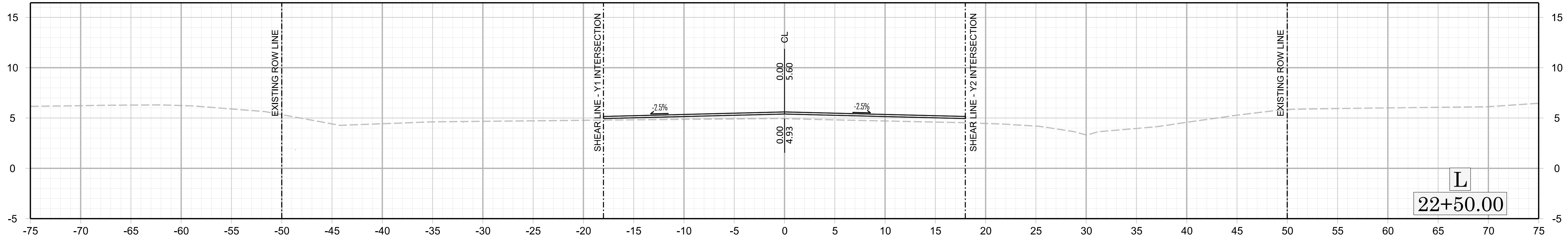
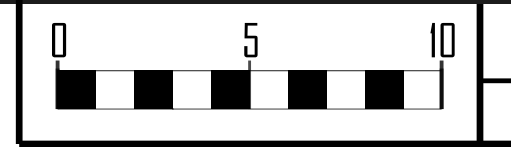
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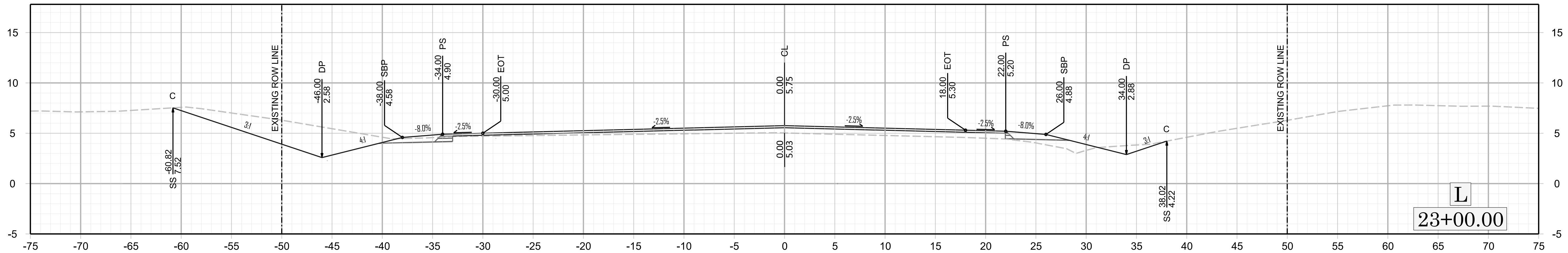
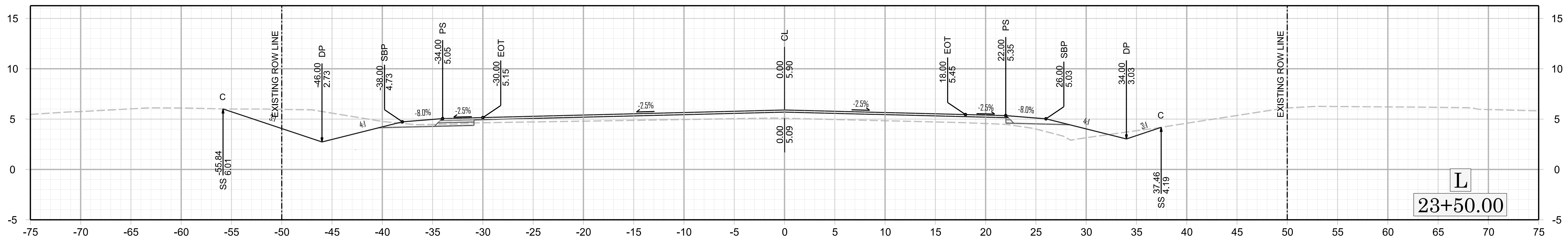
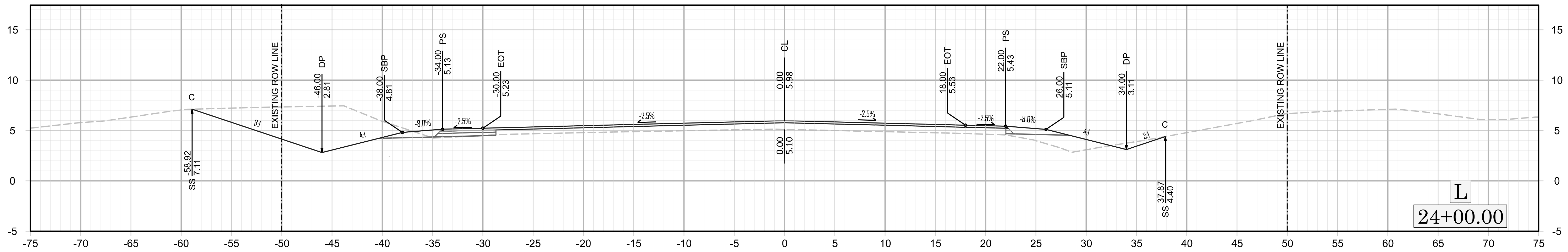
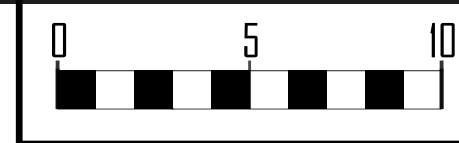


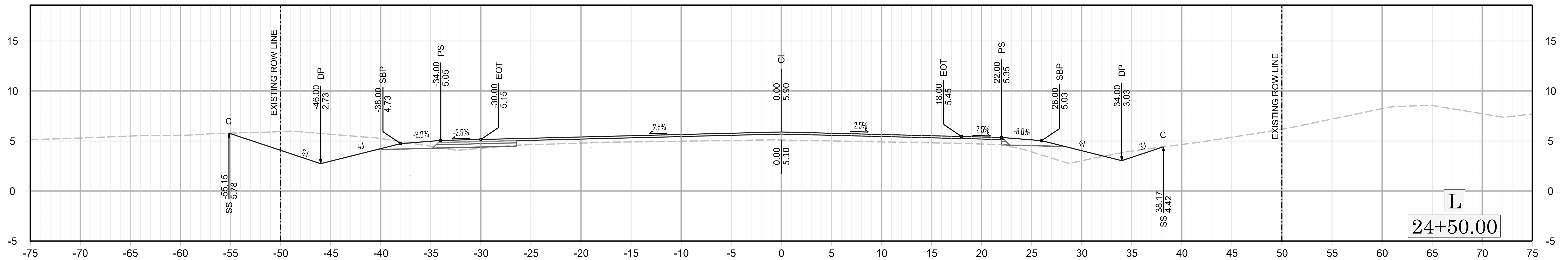
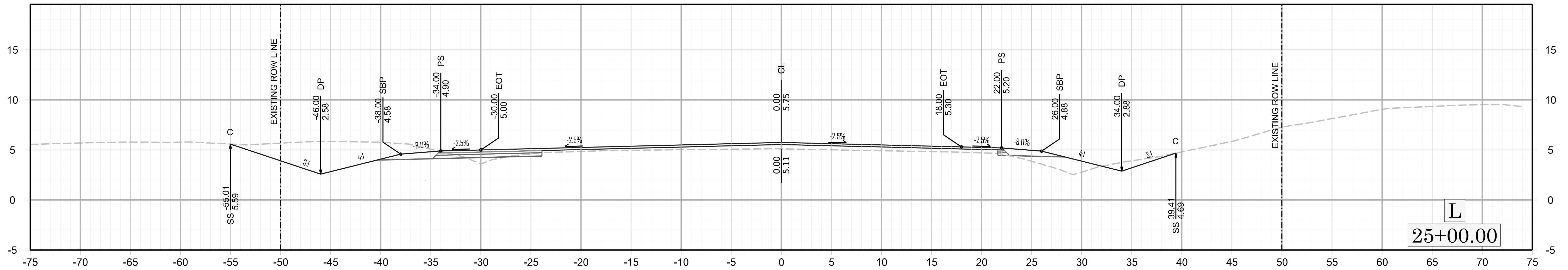
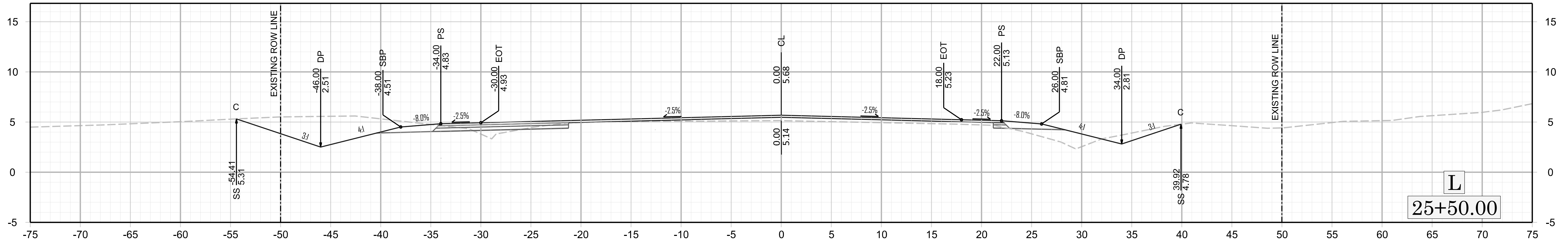


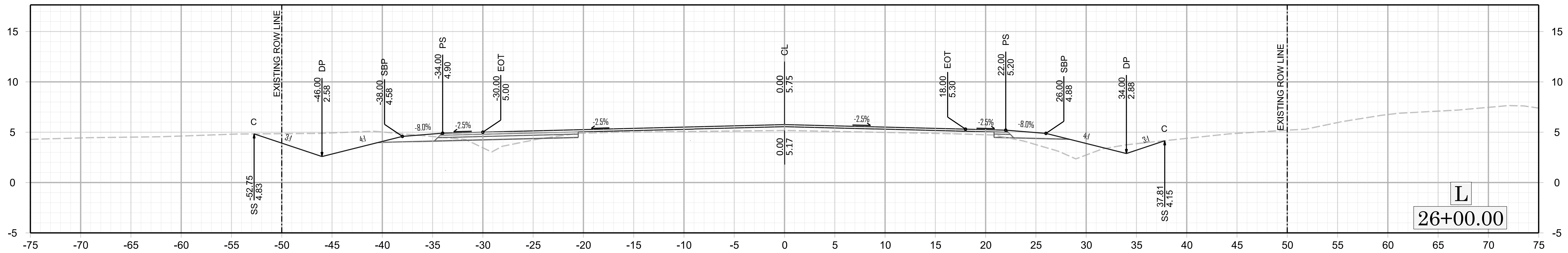
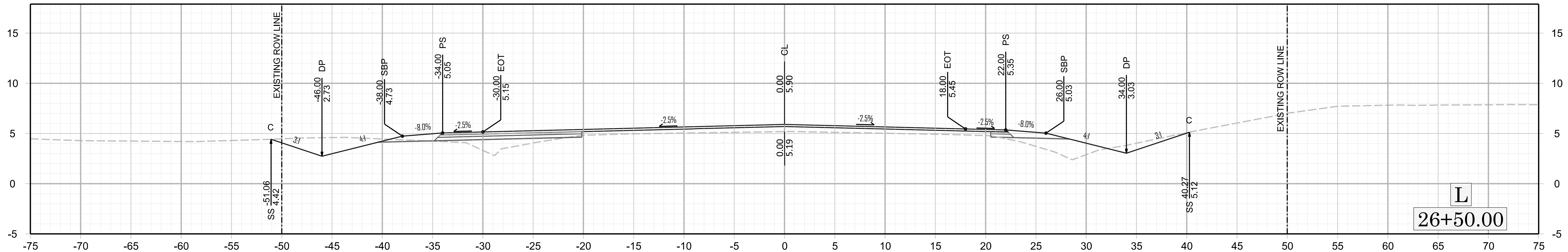
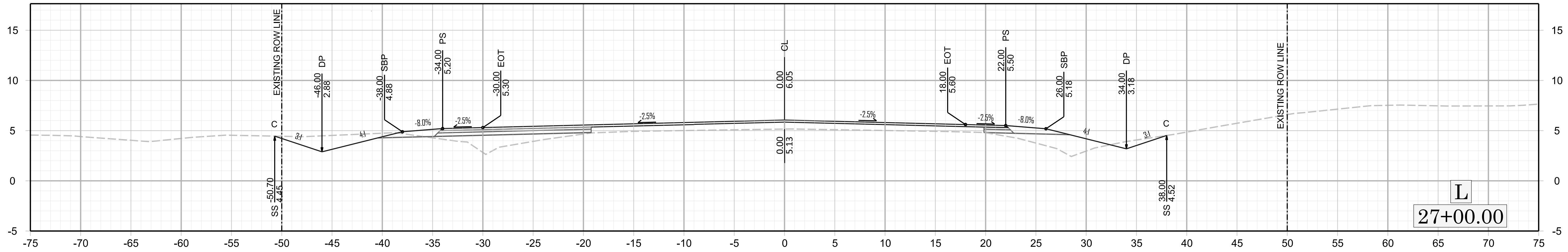


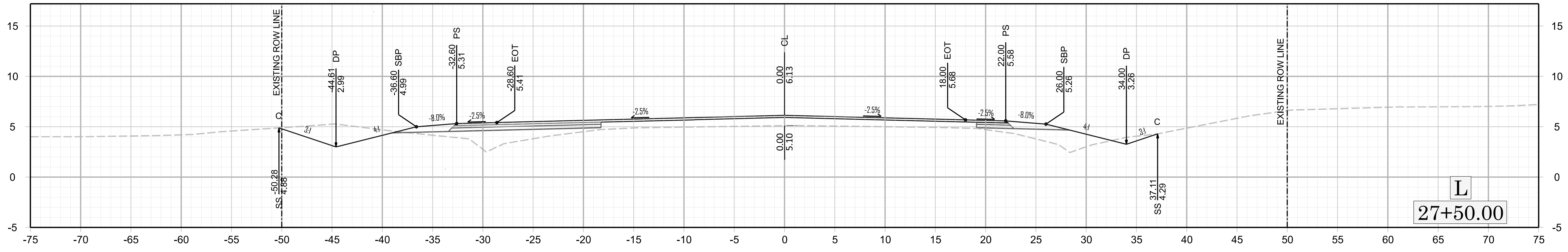
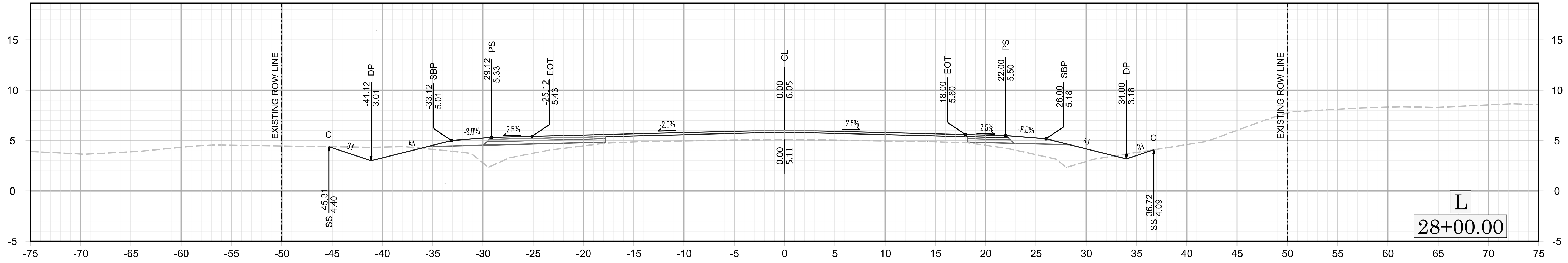
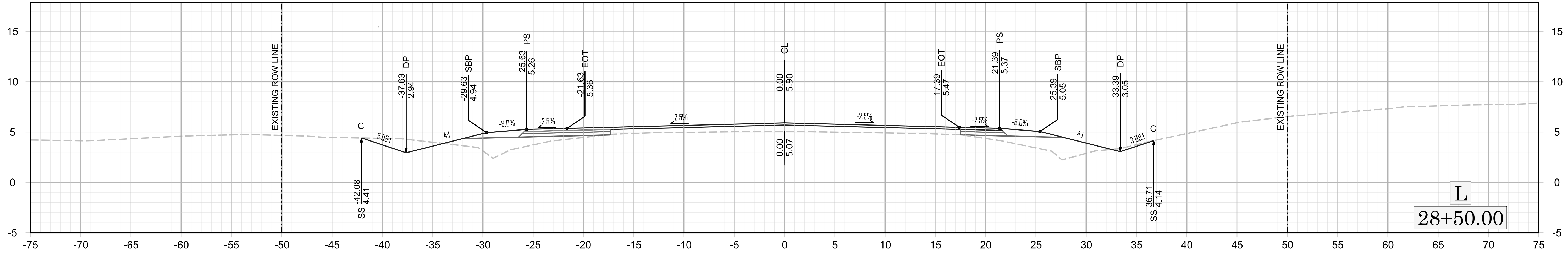


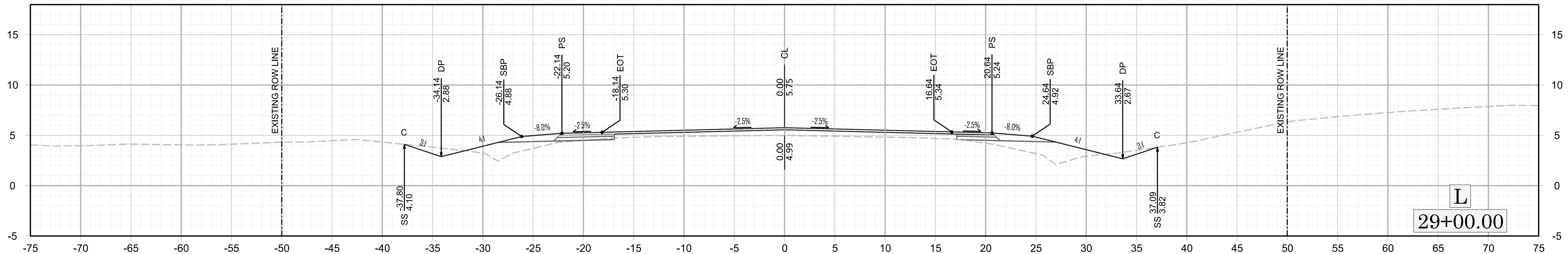
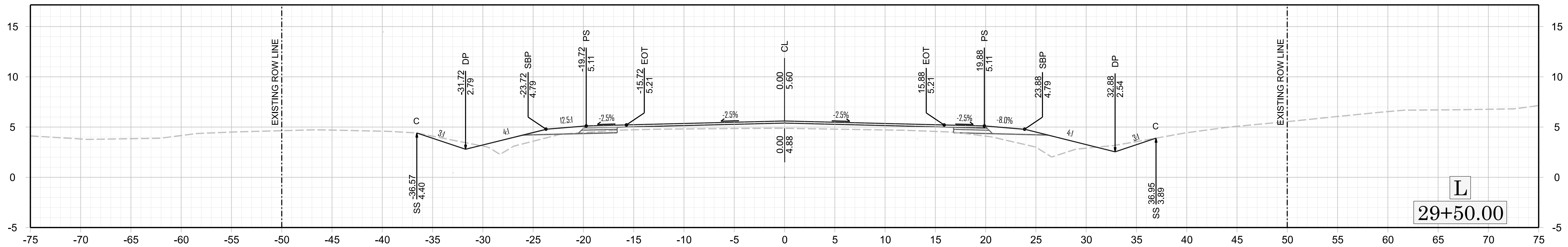
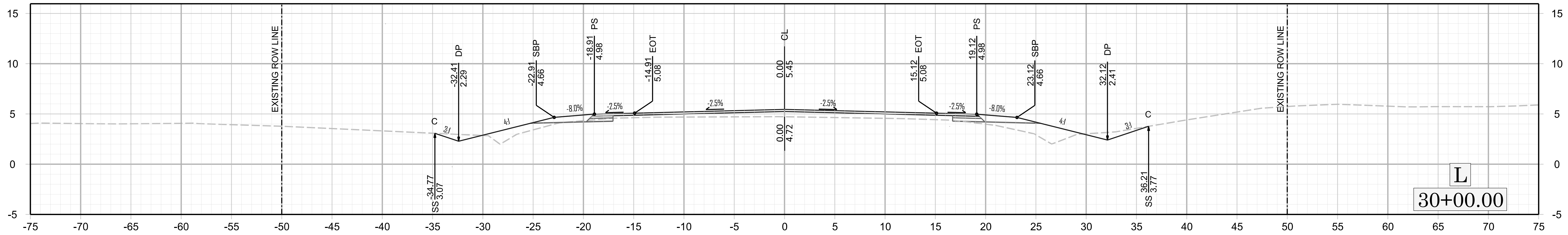
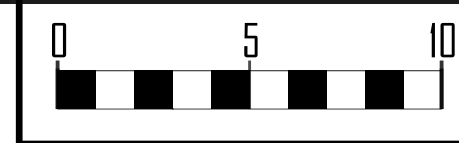


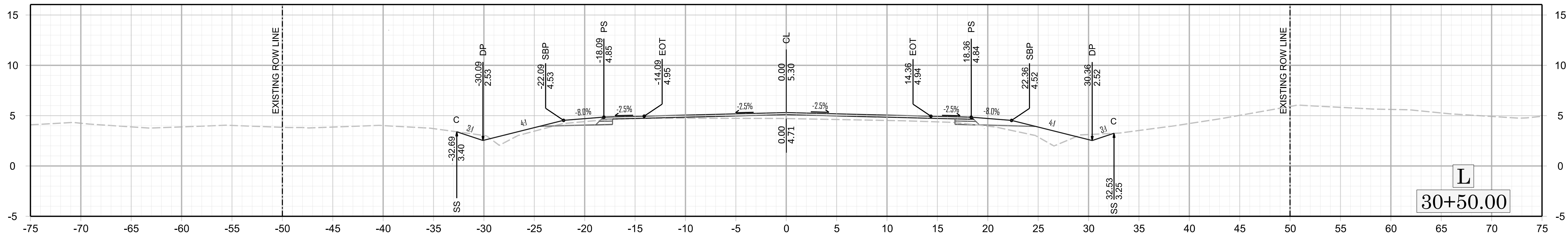
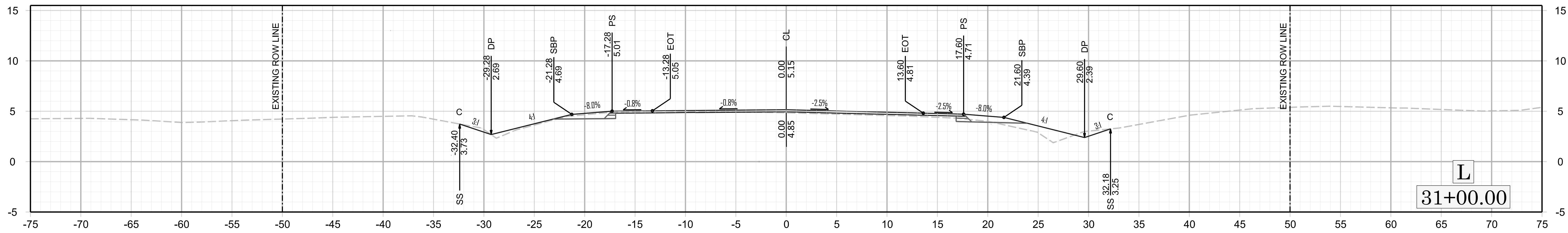
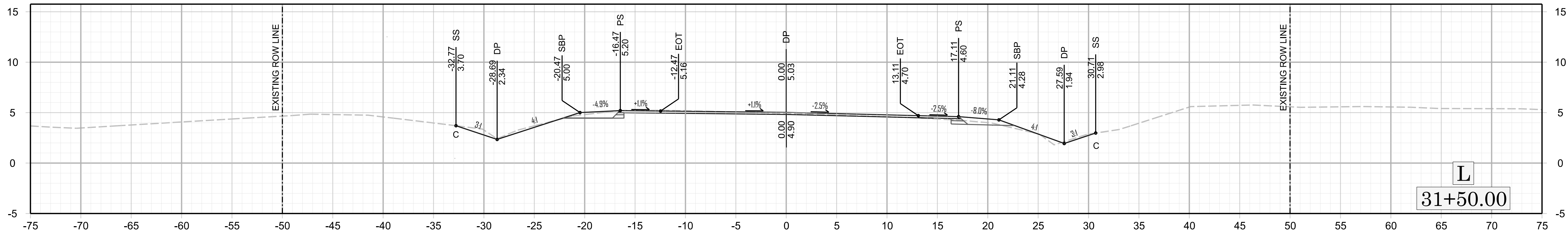
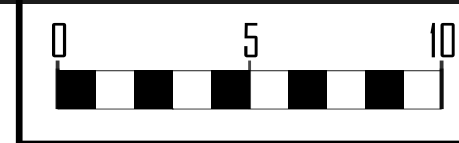


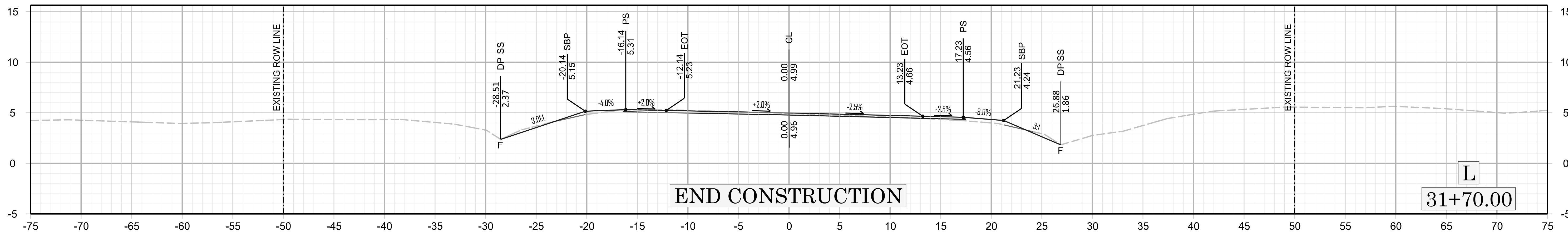
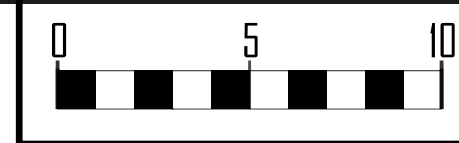


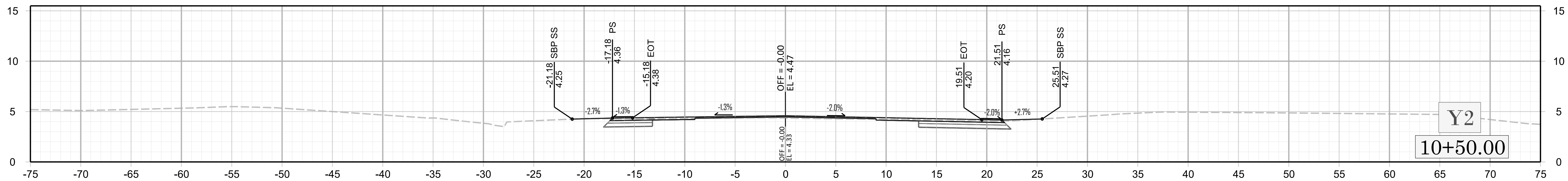
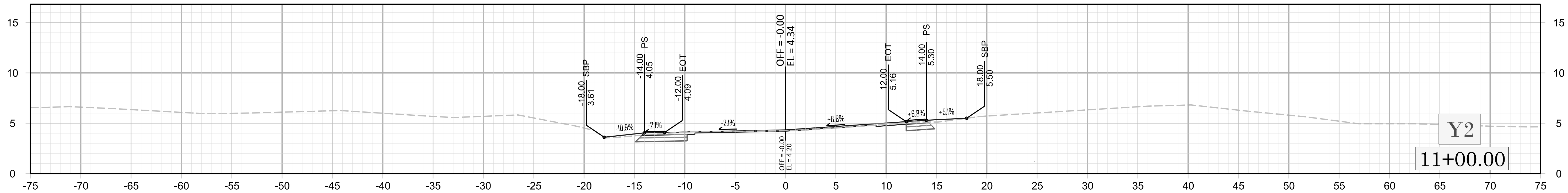
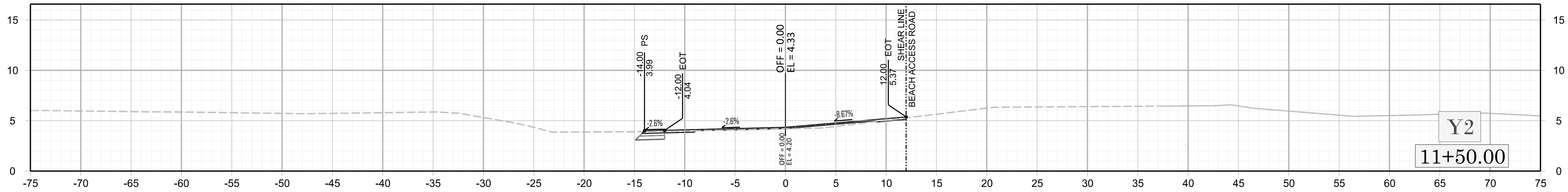
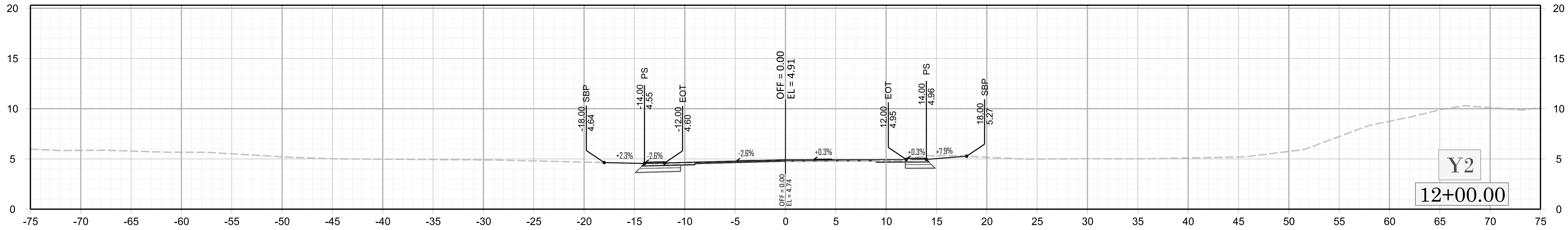
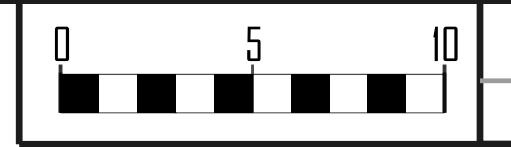


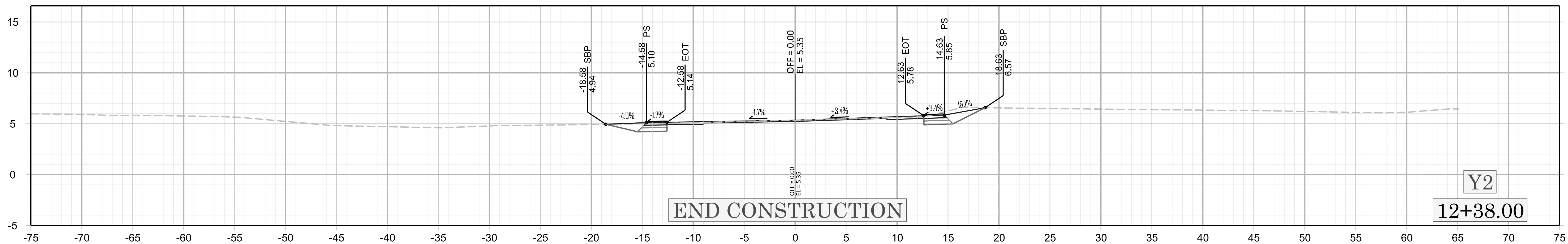
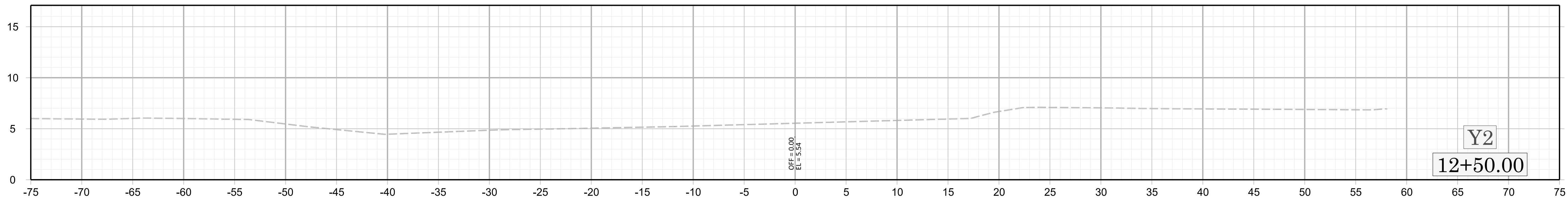
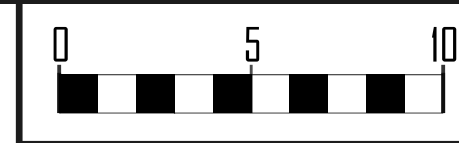




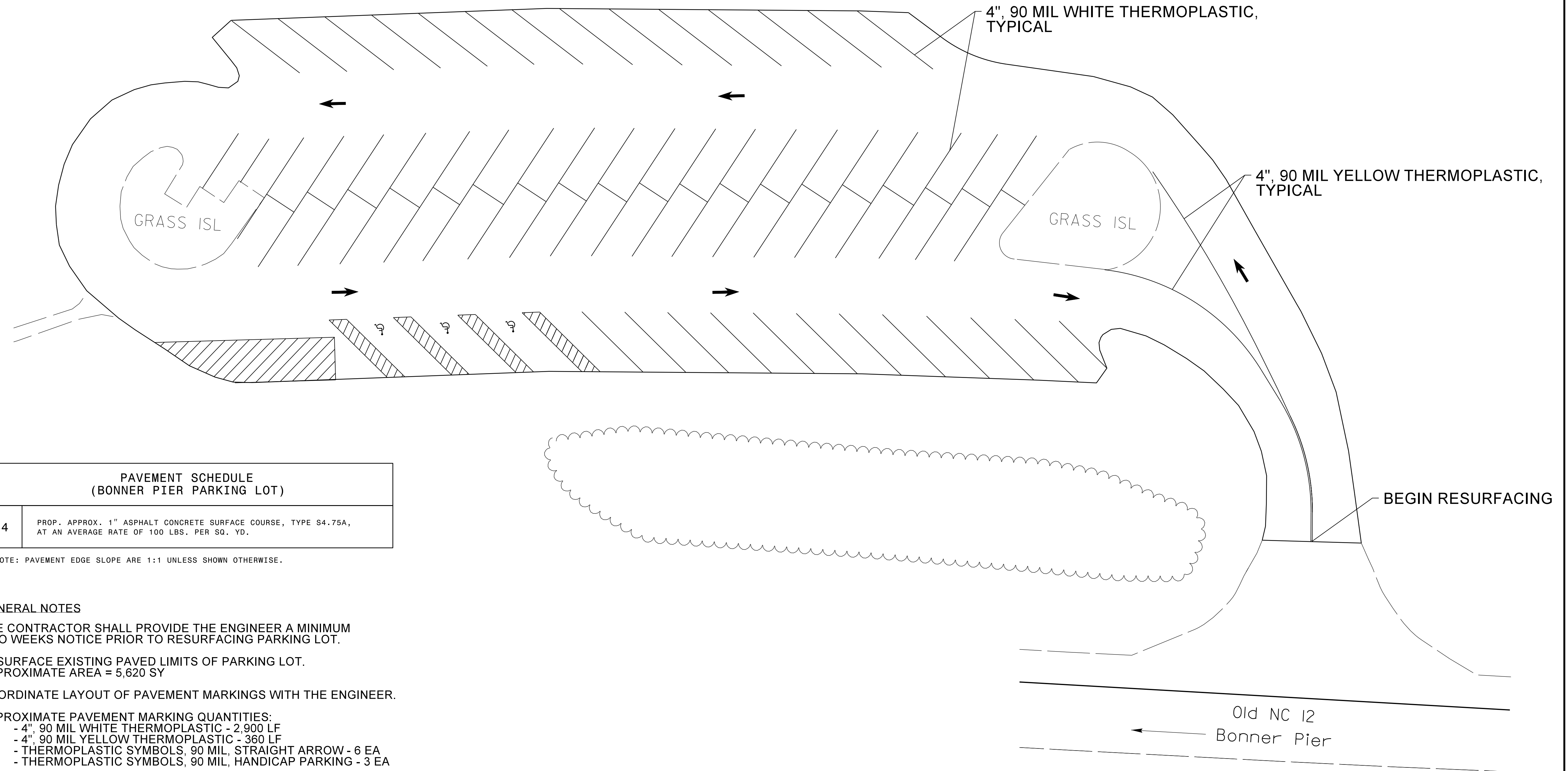








BONNER PIER PARKING LOT



PAVEMENT SCHEDULE (BONNER PIER PARKING LOT)	
C4	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 100 LBS. PER SQ. YD.

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

GENERAL NOTES

THE CONTRACTOR SHALL PROVIDE THE ENGINEER A MINIMUM TWO WEEKS NOTICE PRIOR TO RESURFACING PARKING LOT.

RESURFACE EXISTING PAVED LIMITS OF PARKING LOT.
APPROXIMATE AREA = 5,620 SY

COORDINATE LAYOUT OF PAVEMENT MARKINGS WITH THE ENGINEER.

- APPROXIMATE PAVEMENT MARKING QUANTITIES:
- 4" 90 MIL WHITE THERMOPLASTIC - 2,900 LF
 - 4" 90 MIL YELLOW THERMOPLASTIC - 360 LF
 - THERMOPLASTIC SYMBOLS, 90 MIL, STRAIGHT ARROW - 6 EA
 - THERMOPLASTIC SYMBOLS, 90 MIL, HANDICAP PARKING - 3 EA

I:\ACT_2021\6407
 I:\ACT_2021\6407\1\STIP (Division Managed)\B-2500C (Coquina Beach-Boate Island Light Turn Lanes)\Bonner Pier Parking Lot.psh.dgn
 8/17/99