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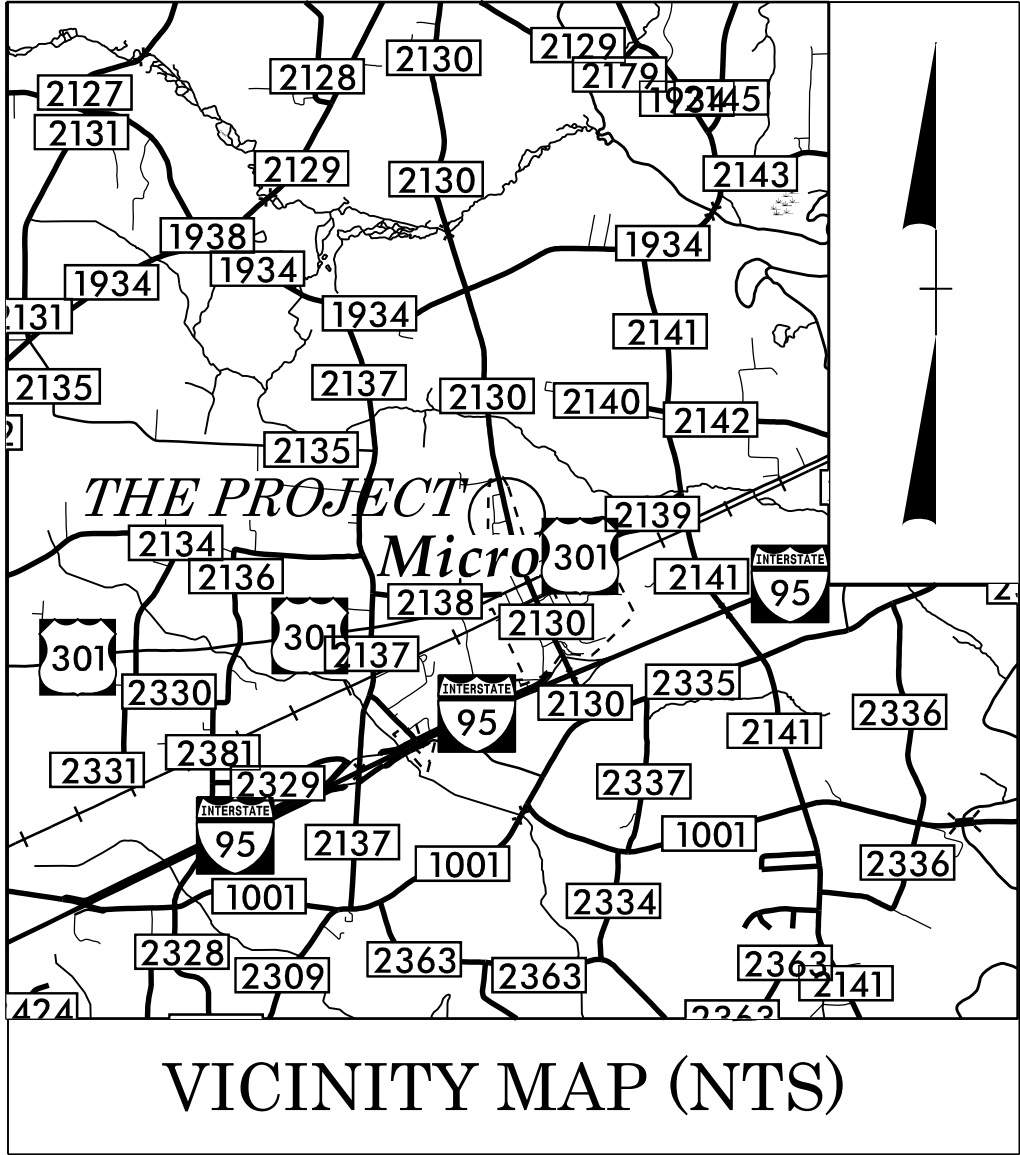
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TIP PROJECT: BN-0025

CONTRACT: DD00528

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

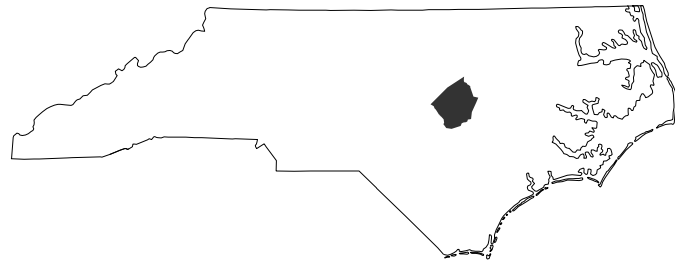
JOHNSTON COUNTY

LOCATION: *SR 2130 (WEST MAIN STREET) FROM SOUTH OF FAYETTEVILLE STREET TO DWIGHT DRIVE IN MICRO. CONSTRUCT SIDEWALK*

TYPE OF WORK: *GRADE, DRAINAGE & PAVEMENT*

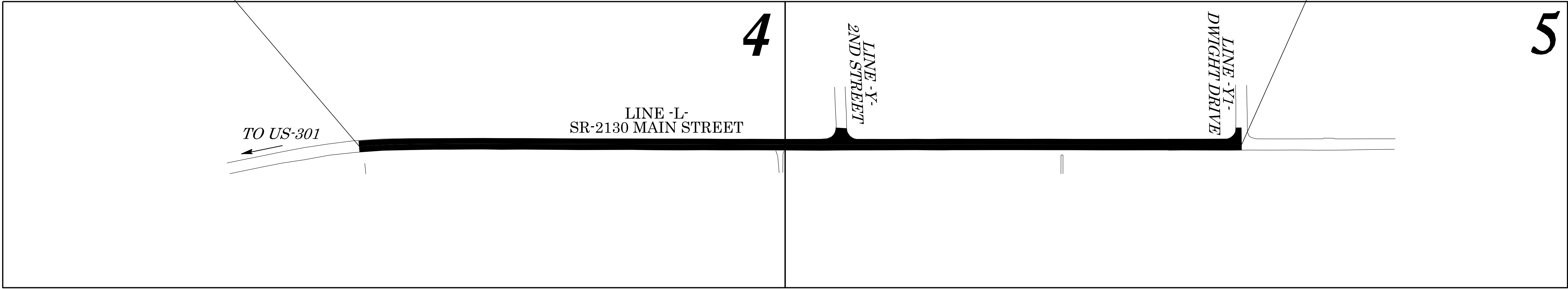
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BN-0025	11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
51508.1.1		PE	
51508.2.1		R/W	
51508.2.2		UTILITY	
51508.3.1		CONSTRUCTION	

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY



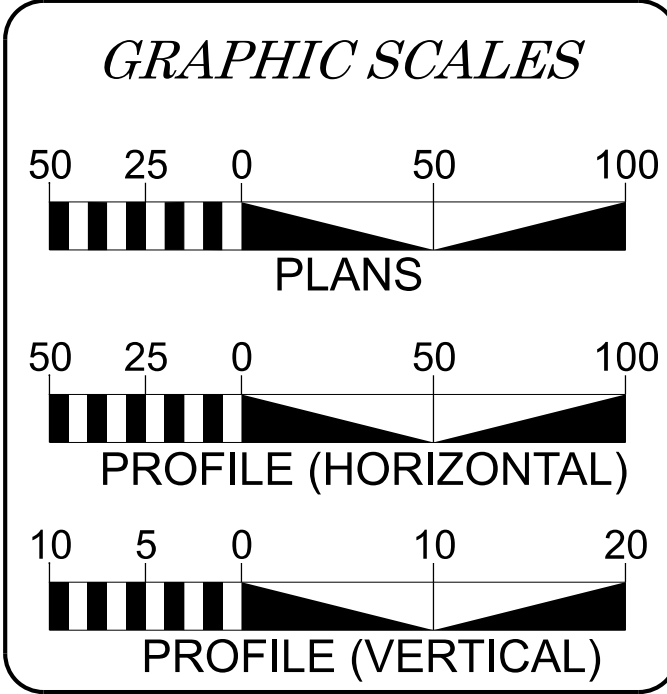
*-L- POC 12+38.08
BEGIN PROJECT
BN-0025*

*-L- POT 28+16.99=
-YI- POT 11+03.77
END PROJECT
BN-0025*



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF MICRO

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA
ADT 2026 = 1400

FUNC CLASS = LOCAL

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT BN-0025 = 0.307 MILES
TOTAL LENGTH OF TIP PROJECT BN-0025 = 0.307 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
DIVISION FOUR DDC
509 Ward Blvd.
Wilson, NC 27895

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
Nov. 19, 2025

LETTING DATE:
Sep 22, 2026

N.A. GAINEY, PE
PROJECT ENGINEER

D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

N.A. GAINEY, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

Signed by:
Benjamin J. Henegar
D7B6AAB80FF437...

06/17/2026 P.E.

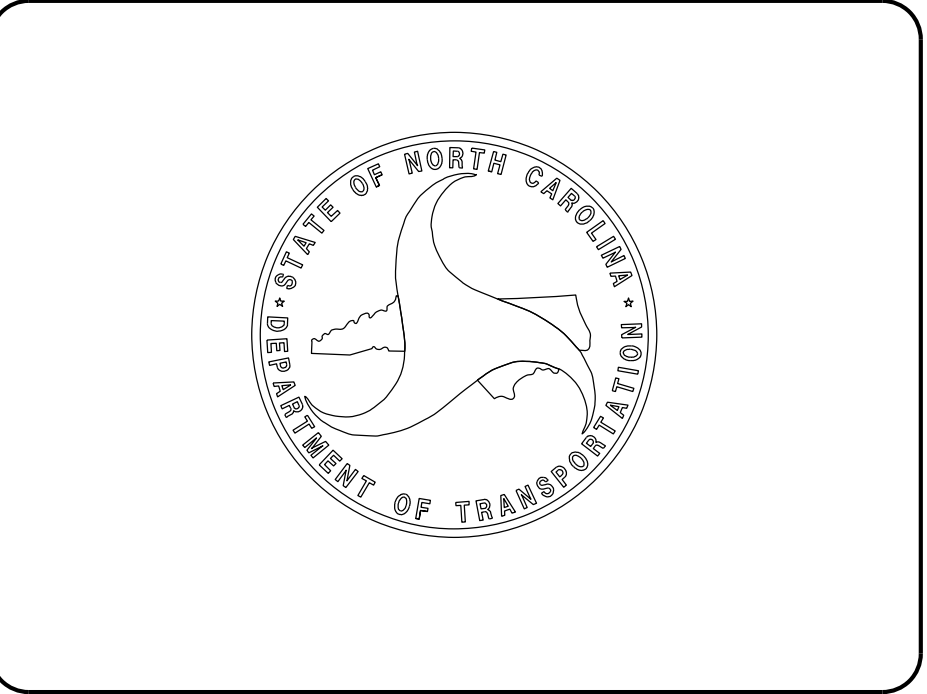
SIGNATURE:

ROADWAY DESIGN ENGINEER

Signed by:
Norwood A. Gailey III
E0D88E50A45044B...

06/17/2026 P.E.

SIGNATURE:



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
BN-0025	1-A

ROADWAY DESIGN ENGINEER



**SEAL
40774
ENGINEER
NORWOOD A. GAINEY**

Signed by: Norwood A. Gainey III

INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE, TYPICAL SECTIONS AND DETAIL FOR DRIVES
2C-1	SPECIAL DETAIL - METHOD OF PIPE INSTALLATION - FLEXIBLE PIPE
2C-2	SPECIAL DETAIL - METHOD OF PIPE INSTALLATION - RIGID PIPE
2C-3	SPECIAL DETAIL - CONCRETE SIDEWALK
2D-1	SPECIAL DETAIL - OFFSET CATCH BASIN DETAIL
2D-2	SPECIAL DETAIL - TRAFFIC BEARING CONFLICT BOX
2D-3	SPECIAL DETAIL - MINIMUM DEPTH CONCRETE CATCH BASIN
3B-1	ROADWAY SUMMARIES: EARTHWORK SUMMARY PARCEL INDEX SHEETS
3D-1 THRU 3D-2	DRAINAGE SUMMARIES
4 THRU 5	PLAN & PROFILE SHEETS
RW-1 THRU RW-5	SURVEY CONTROL, EXISTING CENTERLINES RIGHT OF WAY, EASEMENTS AND PROPERTY TIES
EC-1 THRU EC-7	EROSION CONTROL PLANS
X-1	CROSS-SECTION INDEX & CROSS-SECTION SUMMARY
X-2 THRU X-13	CROSS-SECTIONS

2024 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"
CONTRACTS STANDARDS AND DEVELOPMENT UNIT - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C.,
DATED JANUARY 16, 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

DIVISION 3 - PIPE CULVERTS

300.01 METHOD OF PIPE INSTALLATION (SEE DETAIL SHEETS 2C-1 & 2C-2)

DIVISION 6 - ASPHALT BASES AND PAVEMENTS

654.01 PAVEMENT REPAIRS

DIVISION 8 - INCIDENTALS

840.00 CONCRETE BASE PAD FOR DRAINAGE STRUCTURES

840.01 BRICK CATCH BASIN - 12" THRU 54" PIPE

840.02 CONCRETE CATCH BASIN - 12" THRU 54" PIPE

840.03 FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN

840.14 CONCRETE DROP INLET - 12" THRU 30" PIPE

840.15 BRICK DROP INLET - 12" THRU 30" PIPE

840.16 DROP INLET FRAME AND GRATES - FOR USE WITH STD. DWG 840.14 AND 840.15

840.25 ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST

840.54 MANHOLE FRAME AND COVER

840.66 DRAINAGE STRUCTURE STEPS

840.71 CONCRETE AND BRICK PIPE PLUG

840.72 PIPE COLLAR

846.01 CONCRETE CURB, GUTTER AND CURB & GUTTER

848.01 CONCRETE SIDEWALK (SEE DETAIL SHEET 2C-3)

848.06 CURB RAMP

GENERAL NOTES: 2024 SPECIFICATIONS

GRADE LINE:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

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

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SHEET 2A-1
LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:

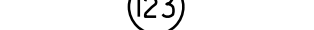
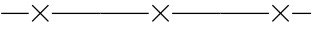
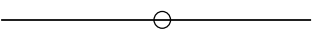
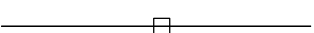
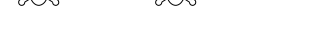
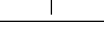
DUKE ENERGY, TOWN OF MICRO WATER & SEWER, BRIGHTSPEED TELECOM AND CHARTER TELECOM.

RIGHT-OF-WAY MARKERS:
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

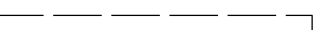
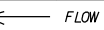
CURB RAMPS
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.
CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

Note: Not to Scale

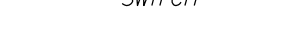
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel / Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	
BUILDINGS AND OTHER CULTURE:	
Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

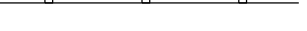
RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

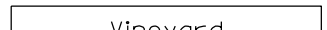
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent Easement Monument (Rebar and Cap)	
Existing C/A Monument	
Proposed C/A Monument (Rebar and Cap)	
Proposed C/A Monument (Concrete)	
Existing Right of Way Line	
Proposed Right of Way Line	
Existing Control of Access Line	
Proposed Control of Access Line	
Proposed ROW and CA Line	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

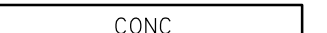
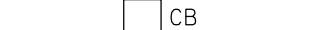
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
VEGETATION:	
Single Tree	
Single Shrub	
Hedge	

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

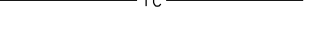
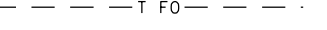
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

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

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line Test Hole (SUE - LOS A)*	
U/G Power Line (SUE - LOS B)*	
U/G Power Line (SUE - LOS C)*	
U/G Power Line (SUE - LOS D)*	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE - LOS A)*	
U/G Telephone Cable (SUE - LOS B)*	
U/G Telephone Cable (SUE - LOS C)*	
U/G Telephone Cable (SUE - LOS D)*	
U/G Telephone Conduit (SUE - LOS B)*	
U/G Telephone Conduit (SUE - LOS C)*	
U/G Telephone Conduit (SUE - LOS D)*	
U/G Fiber Optics Cable (SUE - LOS B)*	
U/G Fiber Optics Cable (SUE - LOS C)*	
U/G Fiber Optics Cable (SUE - LOS D)*	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line Test Hole (SUE - LOS A)*	
U/G Water Line (SUE - LOS B)*	
U/G Water Line (SUE - LOS C)*	
U/G Water Line (SUE - LOS D)*	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE - LOS A)*	
U/G TV Cable (SUE - LOS B)*	
U/G TV Cable (SUE - LOS C)*	
U/G TV Cable (SUE - LOS D)*	
U/G Fiber Optic Cable (SUE - LOS B)*	
U/G Fiber Optic Cable (SUE - LOS C)*	
U/G Fiber Optic Cable (SUE - LOS D)*	

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

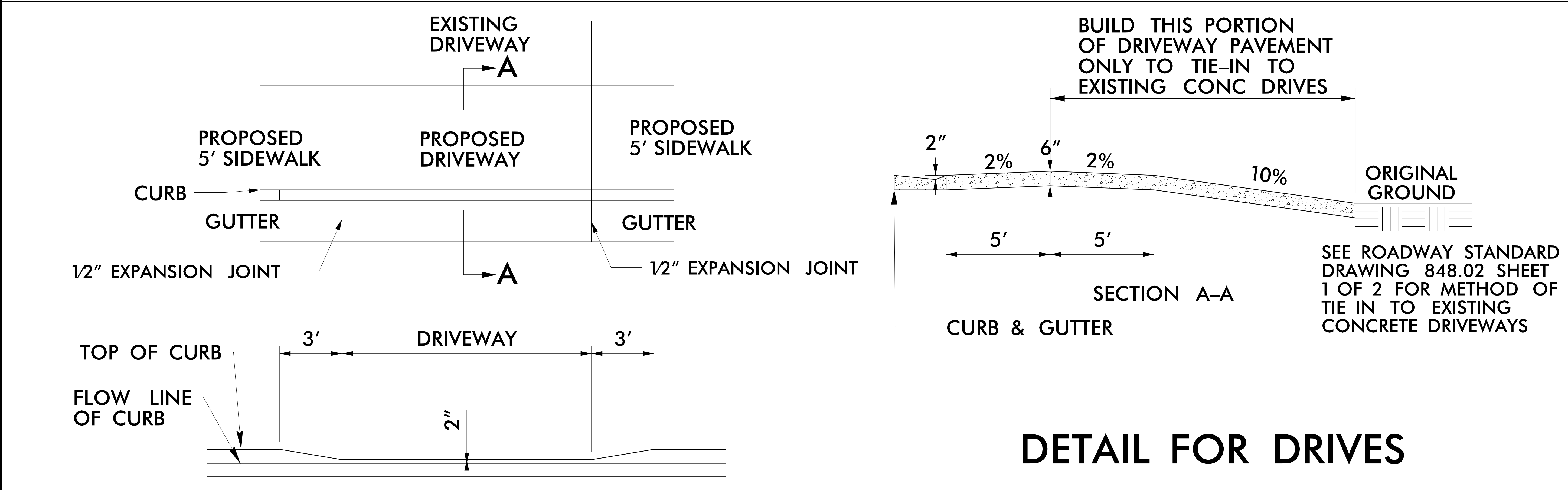
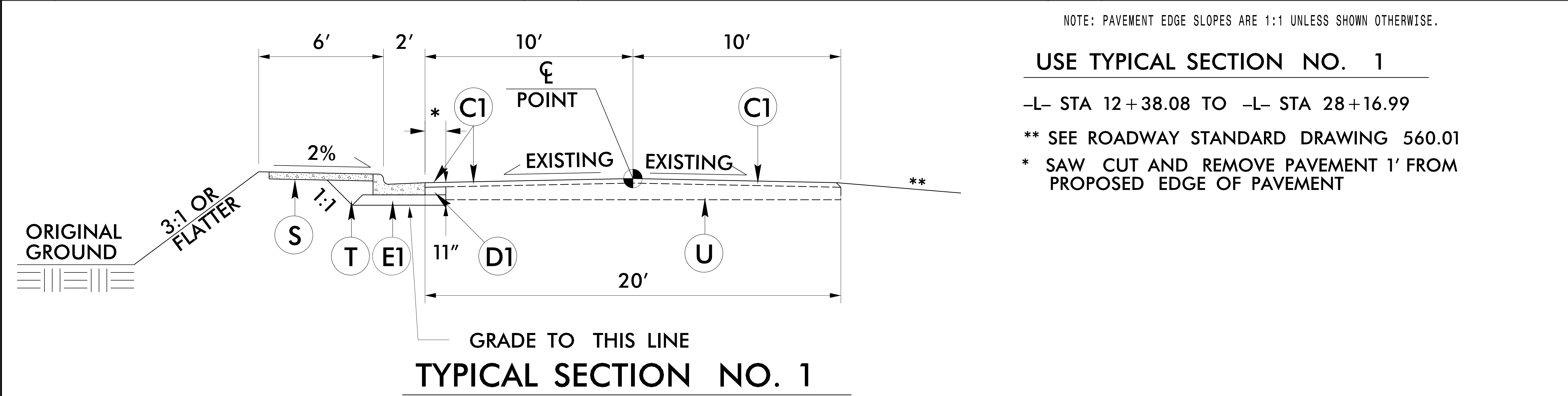
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE - LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenviromental Boring	
Abandoned According to Utility Records	
End of Information	

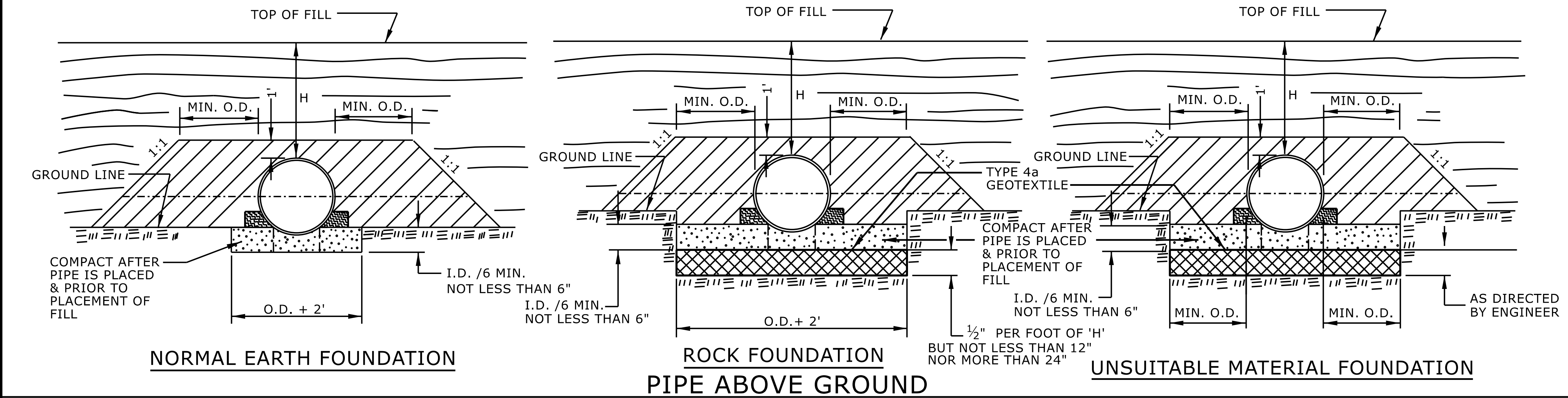
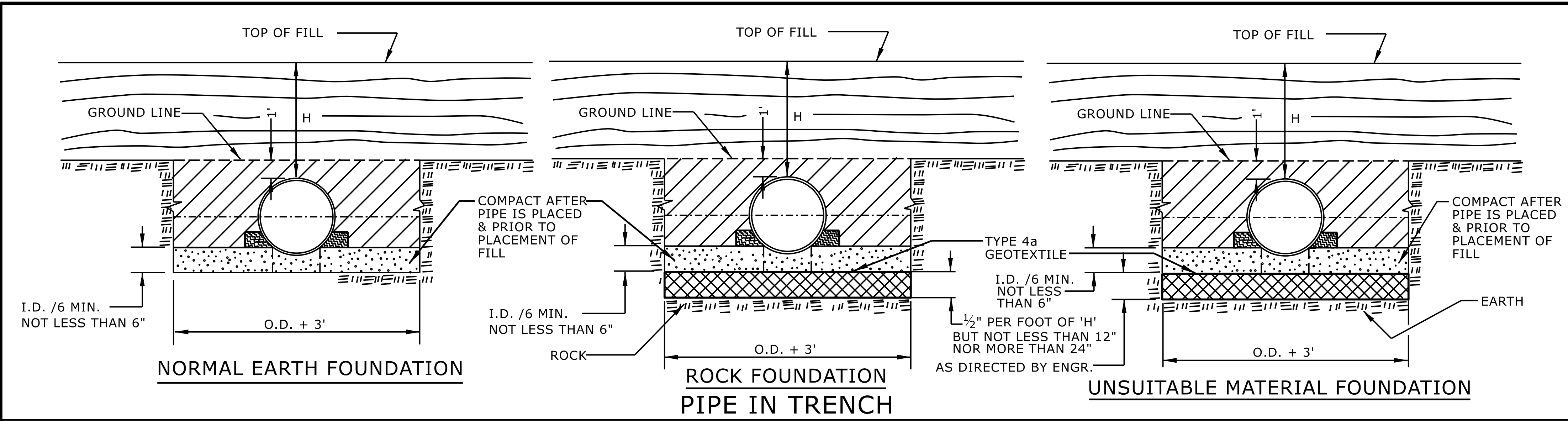
BN-0025

1B

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.	E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	T	EARTH MATERIAL.
D1	PROP. APPROX. 5.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 313.5 LBS. PER SQ. YARD IN EACH OF TWO LAYERS.	S	5' WIDE 4" THICK CONCRETE SIDEWALK	U	EXISTING PAVEMENT.





GENERAL NOTES:
I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
FLEXIBLE PIPE

SHEET 1 OF 2
300.01

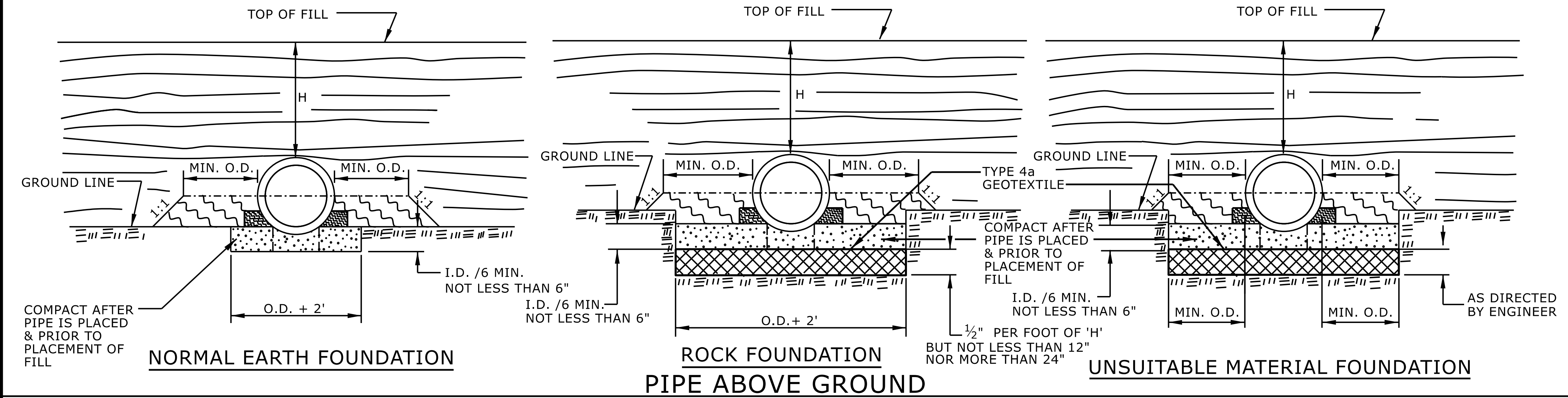
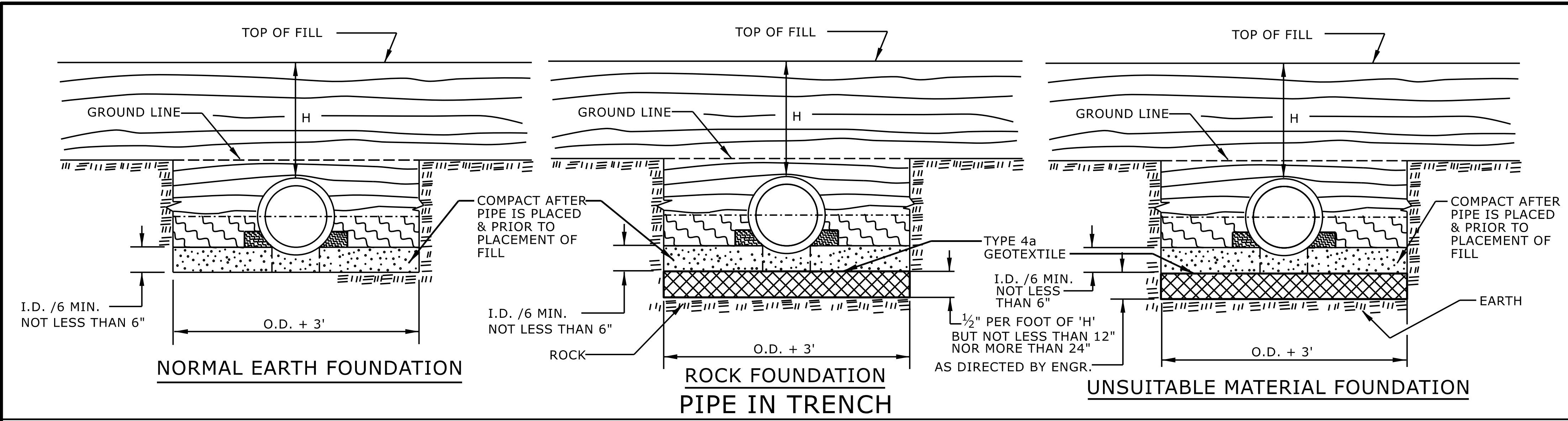


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DATE:



GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
RIGID PIPE

SHEET 2 OF 2
300.01

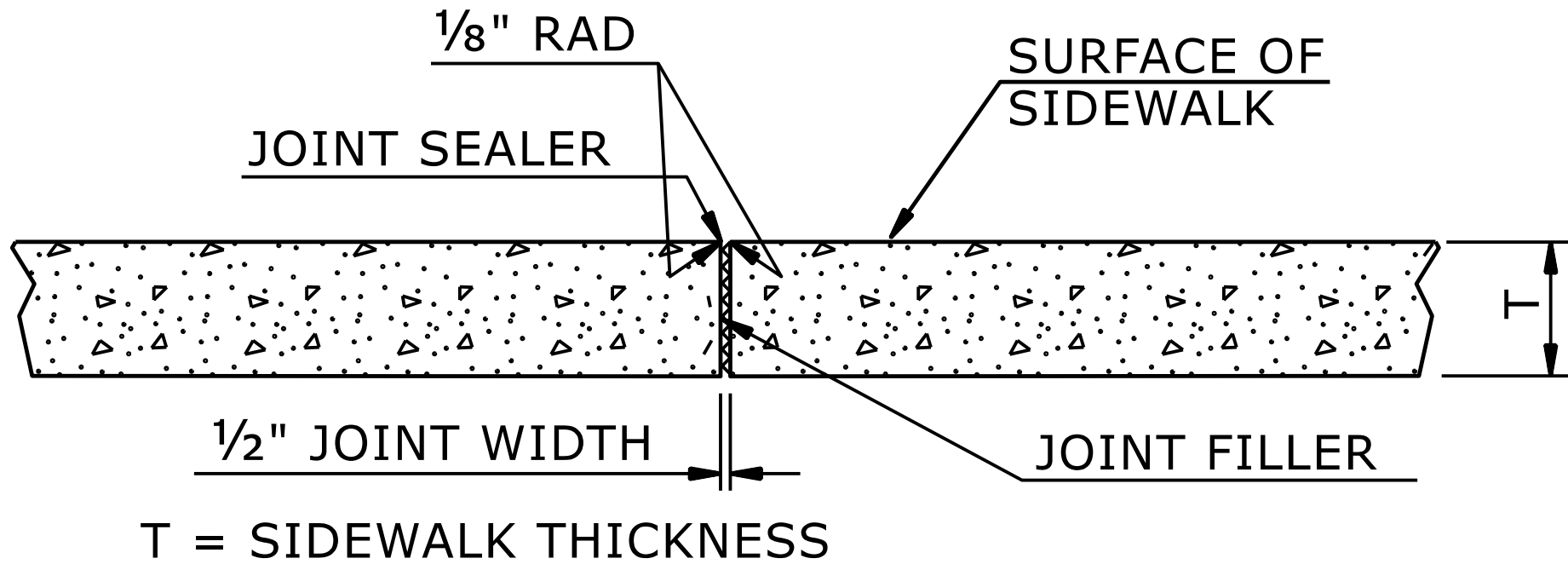


NOTES:

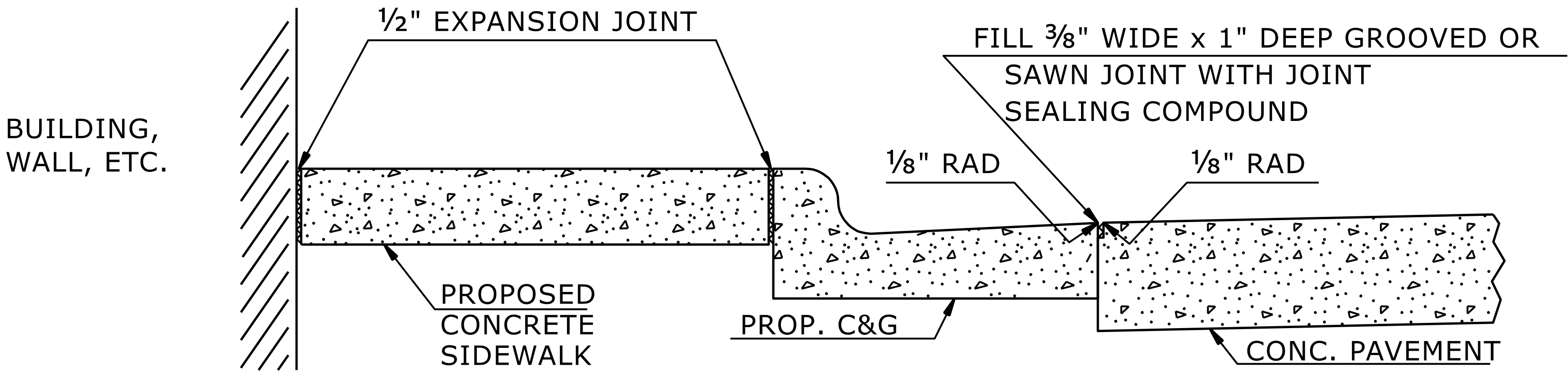
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT
IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK

SHEET 1 OF 1
848D01



Signed by:
Nicole M. Hacker
5884323034164C5...
06/17/2026

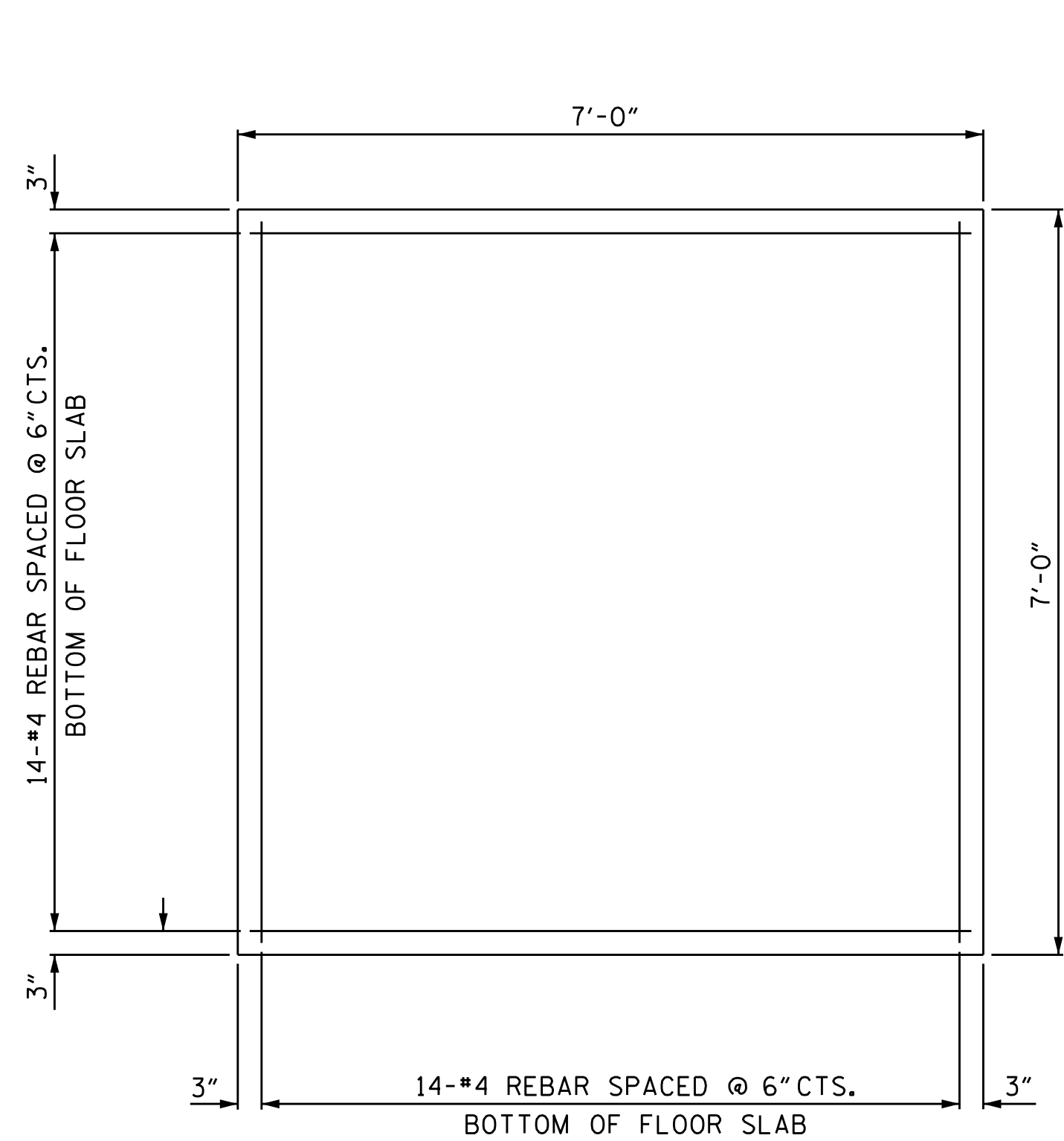
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UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

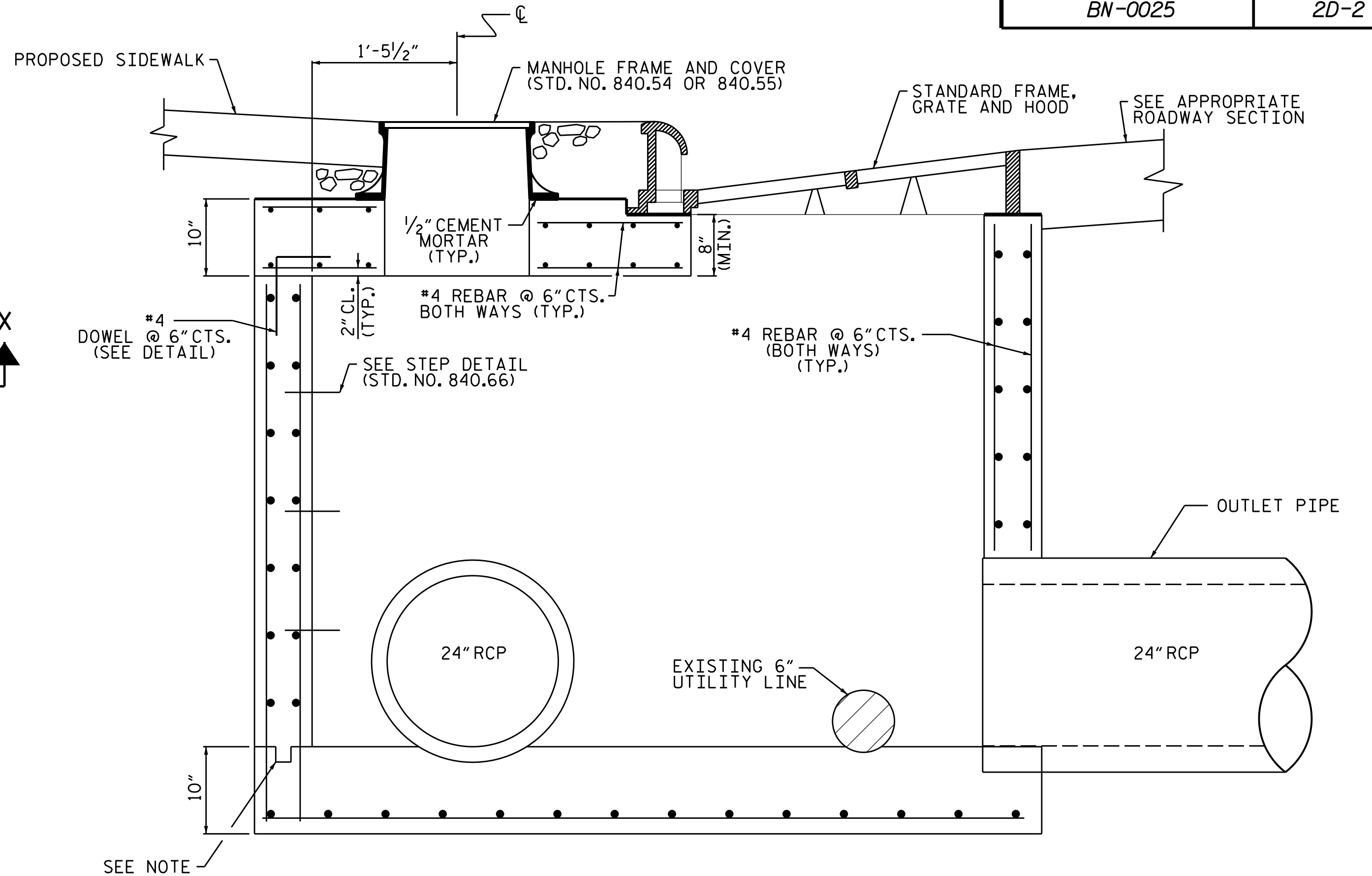
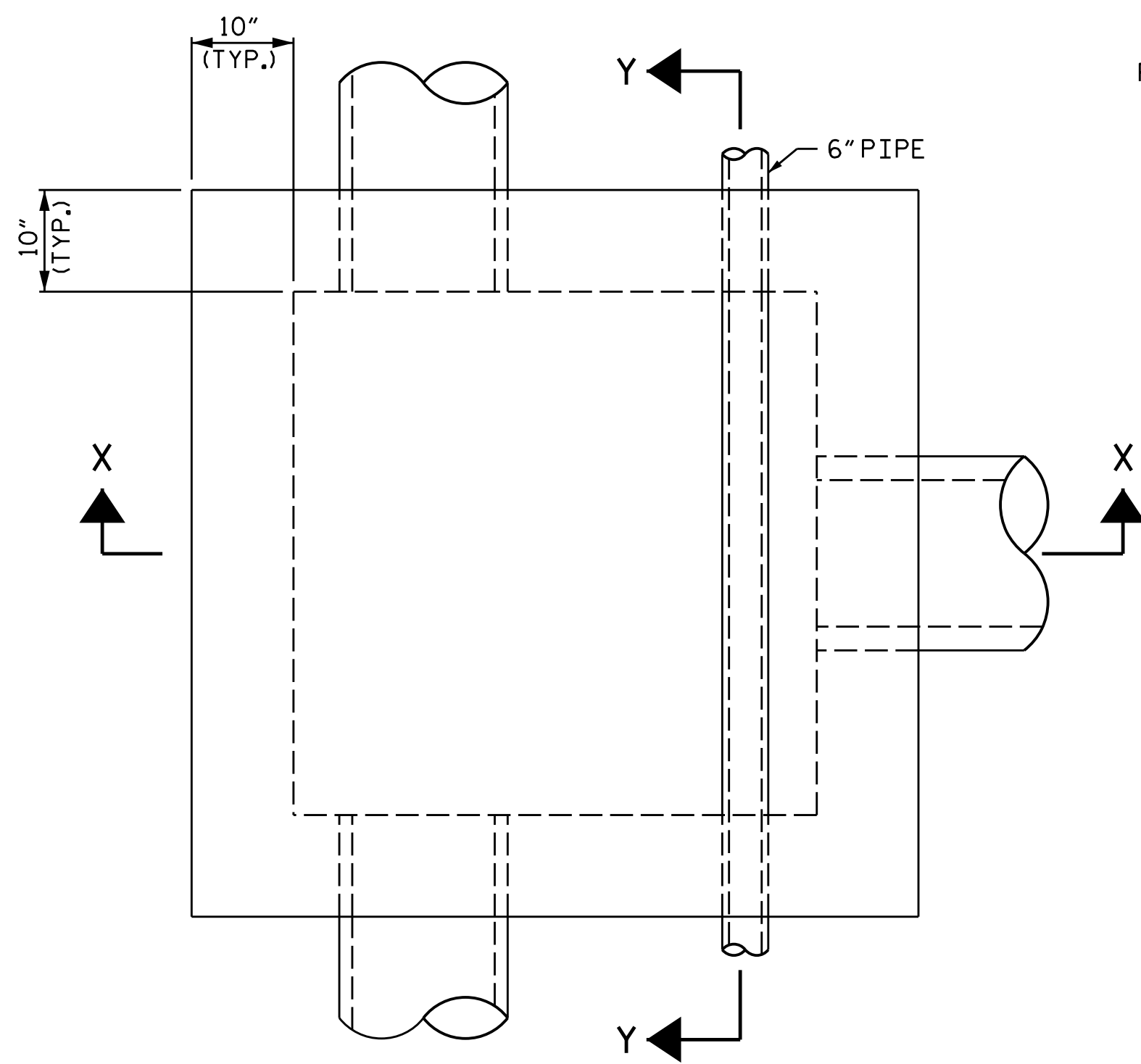
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DATE:



PLAN
MANHOLE AND GRATE NOT SHOWN.

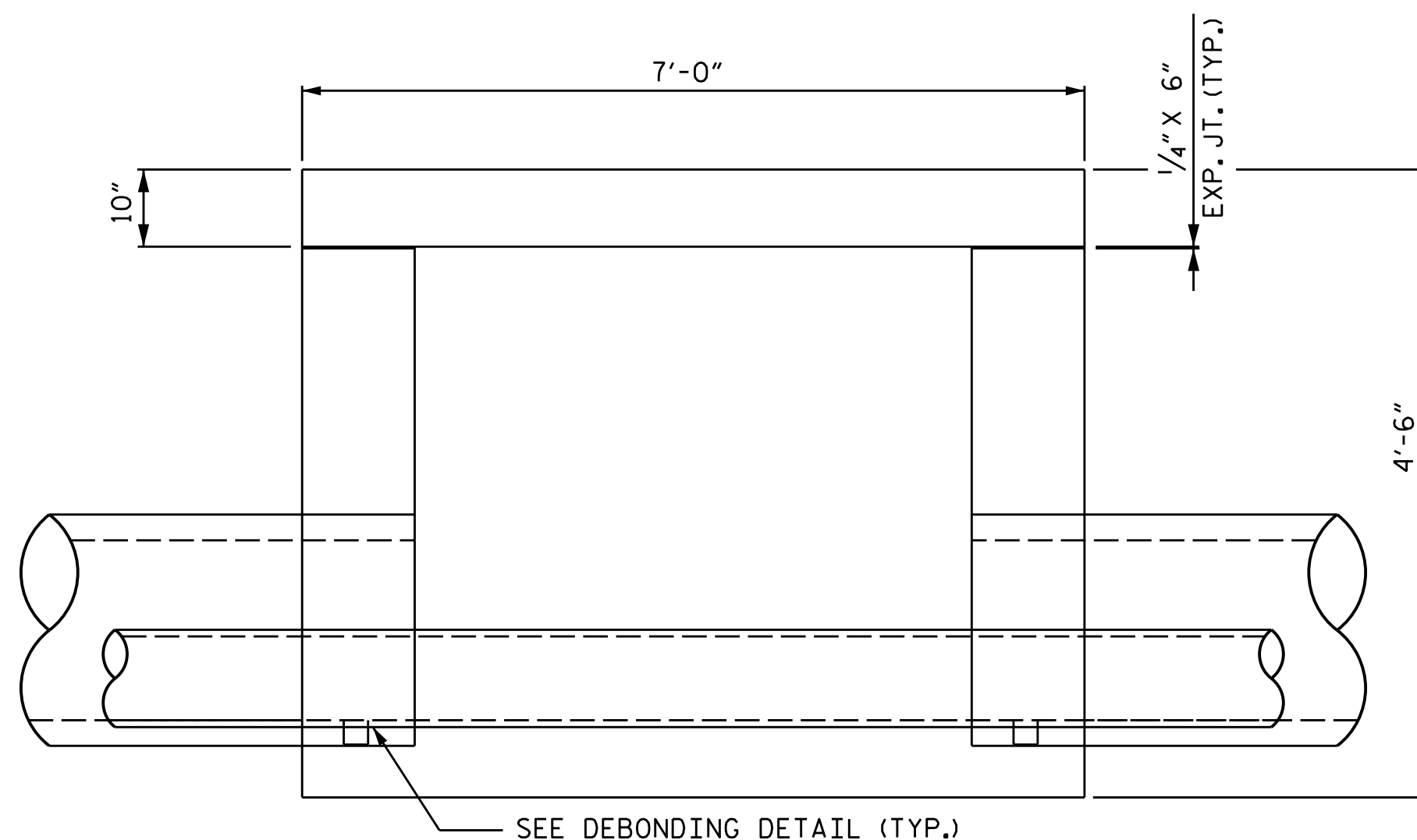
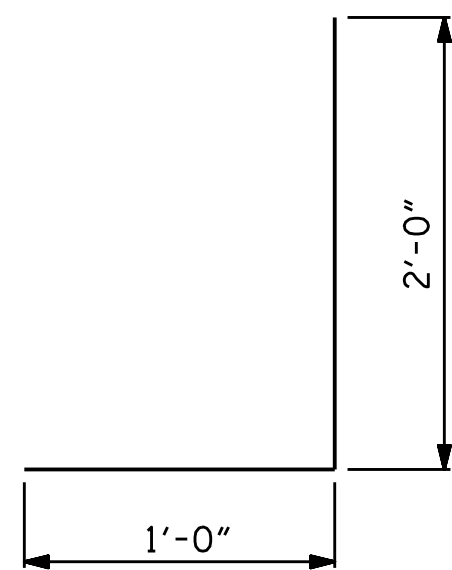


SECTION X-X

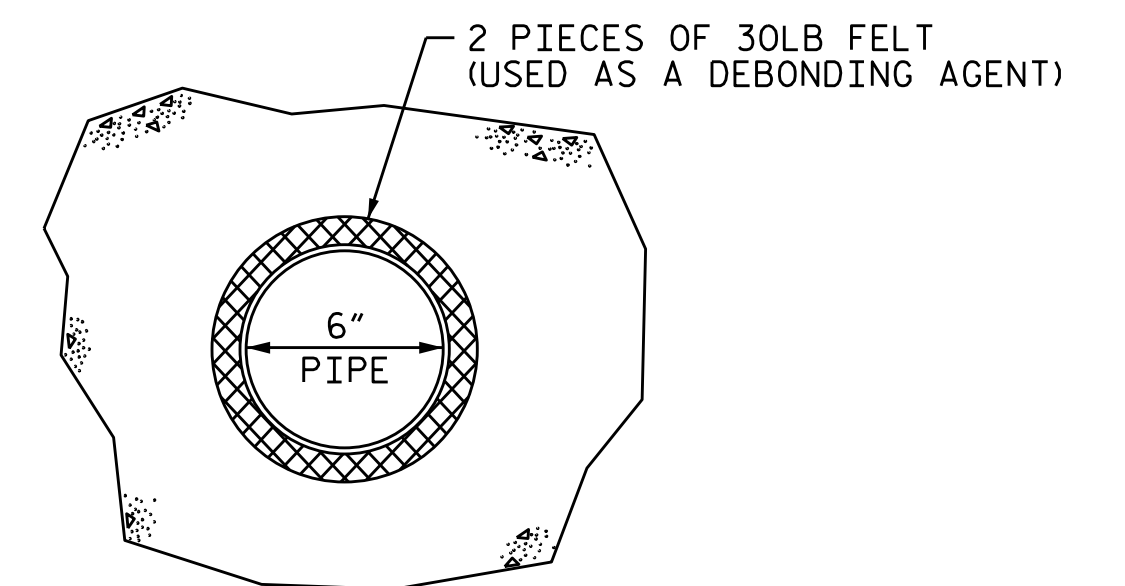
NOTES

- CHAMFER ALL EXPOSED CORNERS 1".
- USE CLASS "B" CONCRETE THROUGHOUT.
- OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 6" CTS. OR AS DIRECTED BY THE ENGINEER.
- USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
- IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STANDARD NO. 840.00.
- PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 1'-0" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
- ADJUST ALL STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE CATCH BASIN (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB).
- MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STANDARD DRAWING NO. 840.45 OR NO. 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.
- FIELD CUT BARS TO CLEAR PIPES AND GRATE AS NEEDED.

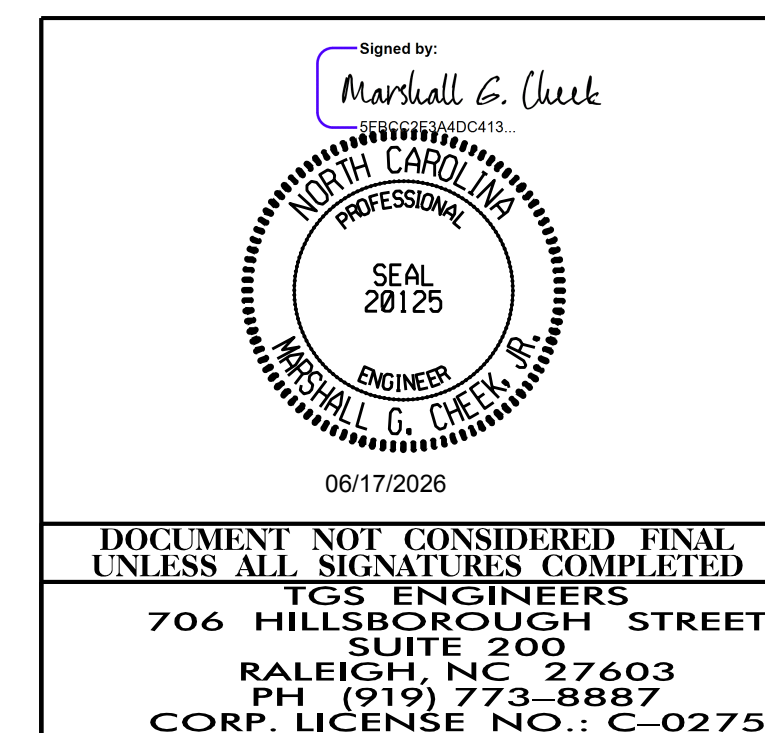
DOWEL DETAIL



SECTION Y-Y



DEBONDING DETAIL



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

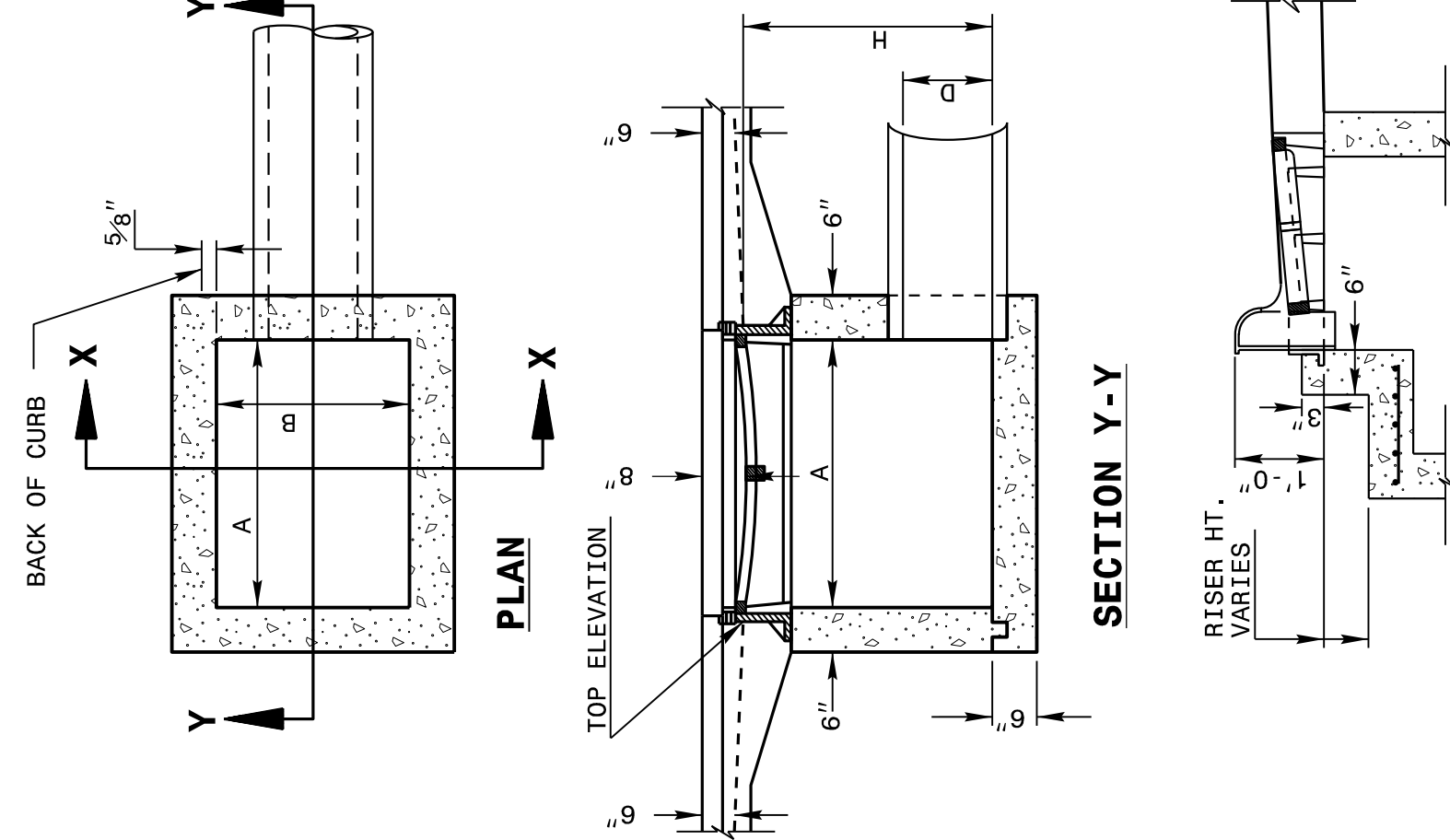
TRAFFIC BEARING
CONFLICT BOX

DRAWN BY : STM DATE : 10/25
CHECKED BY : MGC DATE : 10/25

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

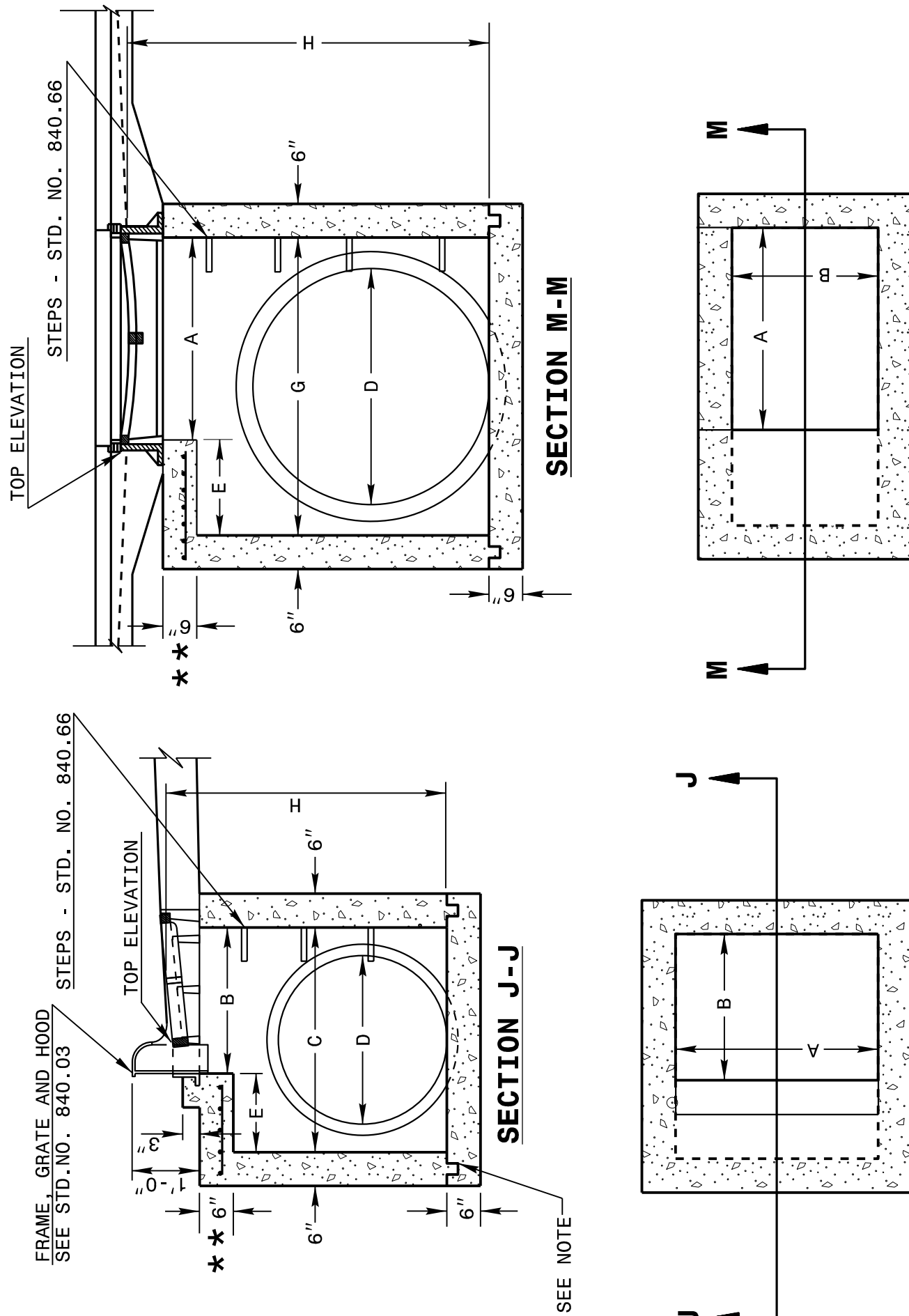
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12 CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
** FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.



ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE



DETAIL SHOWING METHOD
OF RISER CONSTRUCTION

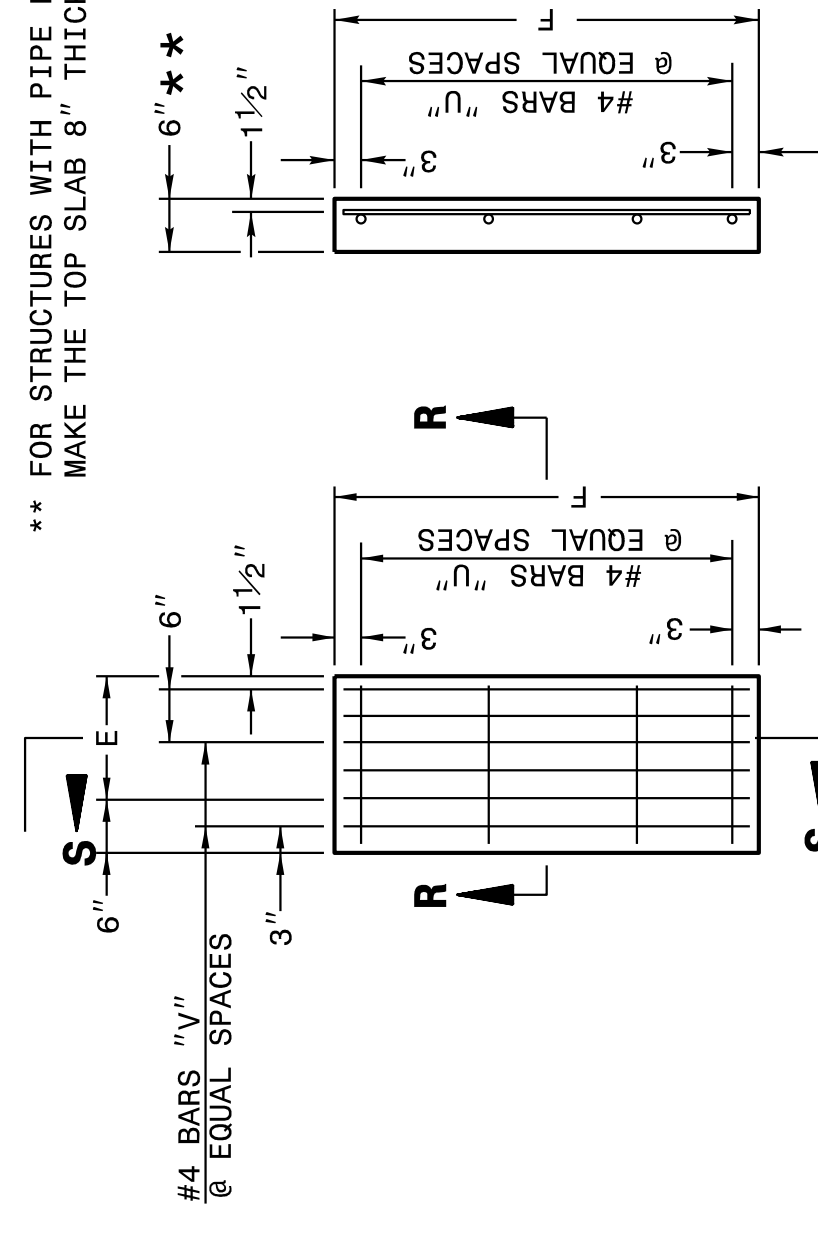
SHEET 1 OF 2
840D02

SHEET 1 OF 2
840D02

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

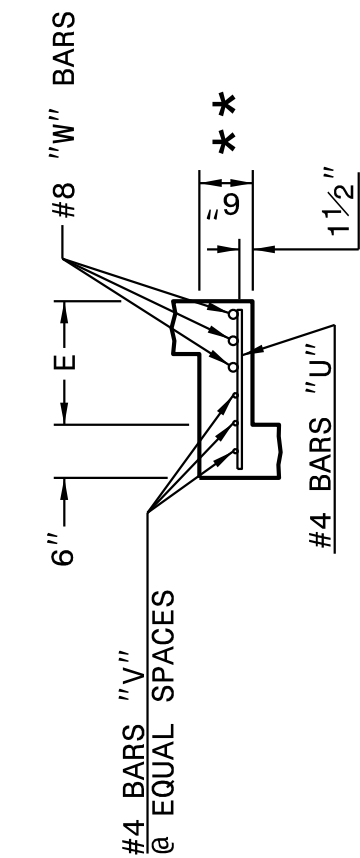
** FOR STRUCTURES WITH PIPE LARGER THAN 54",
MAKE THE TOP SLAB 8" THICK.



PLAN OF TOP SLAB

SECTION S-S

ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

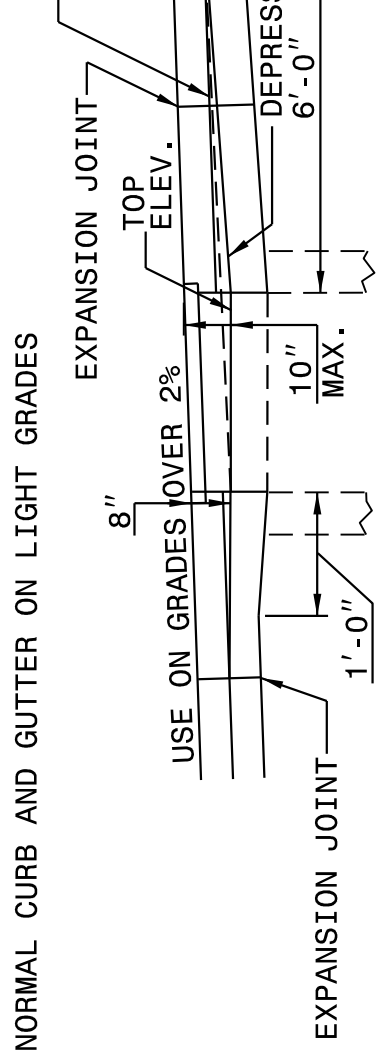


SECTION R-R

DOWEL

ELEVATION

NORMAL CURB AND GUTTER ON LIGHT GRADES



ELEVATION

NORMAL CURB AND GUTTER ON STEEP GRADES

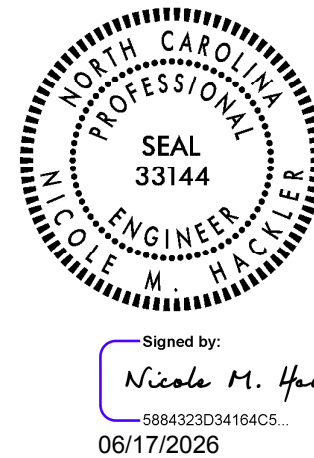
* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *																		
DIMENSIONS OF BOX AND PIPE					COVER DIMENSION		BARS-U		BARS-V		BARS-W		TOTAL LBS.	CU. YDS. CONC. IN BOX		DEDUCTIONS ONE PIPE		
PIPE	SPAN	WIDTH	DEPTH	MIN. HEIGHT	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		TOP SLAB	BOTTOM SLAB		TOT. CONC. FOR MINIMUM HEIGHT, H	
12"	3'-0"	2'-2"	--	2'-0"	--	--	--	--	--	--	--	--	--	0.235	0.772	0.015	R. C.	
15"	3'-0"	2'-2"	--	2'-3"	--	--	--	--	--	--	--	--	--	0.235	0.829	0.023	R. C.	
18"	3'-0"	2'-2"	--	2'-6"	--	--	--	--	--	--	--	--	--	0.235	0.887	0.033	R. C.	
24"	3'-0"	2'-2"	--	3'-1"	--	--	--	--	--	--	--	--	--	0.235	1.001	0.059	R. C.	
30"	3'-0"	2'-2"	3'-4"	3'-10"	1'-2"	4'-4"	4	1'-5"	2	4'-1"	3	4'-1"	39	0.123	0.347	1.433	0.092	0.127
36"	3'-0"	2'-2"	3'-10"	4'-6"	1'-8"	4'-10"	4	1'-11"	3	4'-7"	3	4'-7"	43	0.161	0.432	1.714	0.132	0.178
42"	3'-0"	2'-2"	4'-5"	4'-11"	2'-2"	5'-5"	5	2'-5"	4	5'-2"	3	5'-2"	47	0.200	0.543	1.738	0.180	0.243
48"	3'-0"	2'-2"	5'-0"	5'-6"	2'-10"	6'-0"	5	3'-1"	4	5'-9"	3	5'-9"	51	0.235	0.667	2.032	0.235	0.317
54"	3'-0"	2'-2"	5'-7"	6'-0"	3'-5"	6'-7"	6	3'-8"	5	6'-4"	3	6'-4"	56	0.289	0.802	2.387	0.287	0.401
60"	3'-0"	2'-2"	6'-3"	6'-6"	4'-1"	7'-3"	6	4'-4"	5	7'-0"	3	7'-0"	61	0.340	0.973	2.722	0.363	0.546
66"	3'-0"	2'-2"	6'-11"	7'-0"	4'-9"	7'-11"	7	5'-0"	6	7'-8"	3	7'-8"	66	0.391	1.160	3.057	0.440	0.655
72"	3'-0"	2'-2"	7'-6"	7'-6"	5'-3"	8'-6"	7	5'-6"	6	8'-3"	3	8'-3"	72	0.442	1.340	3.392	0.524	0.774
78"	3'-0"	2'-2"	8'-1"	8'-0"	5'-11"	9'-1"	8	6'-2"	7	8'-10"	3	8'-10"	78	0.493	1.530	3.727	0.615	0.893
84"	3'-0"	2'-2"	8'-9"	8'-9"	6'-7"	9'-9"	8	6'-10"	7	9'-6"	3	9'-6"	84	0.544	1.760	4.062	0.713	1.010

CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: 2002 Std.840.01 DATE:
MODIFIED BY: E.E. WARD DATE: 3-1-02
CHECKED BY: DATE:
FILE SPEC.: s:Special Details/jhowerton/840d02.dgn



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UNLESS ALL SIGNATURES COMPLETED

COMPUTED BY:	D.R. Ethridge	DATE:	6/4/2026
CHECKED BY:	D.R. Ethridge	DATE:	6/4/2026

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

Volumes in Cubic Yards

[illegible]

ESTIMATED GEOTEXTILE FOR SOIL STABILIZATION = 300 SY

ESTIMATED SHALLOW UNDERCUT = 100 CY

ESTIMATED CLASS IV SUBGRADE STABILIZATION = 150 TON

EARTHWORK QUANTITIES ARE CALCULATED BY DIVISION FOUR DDC

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

PARCEL INDEX

[illegible]

REMOVAL OF EXISTING

ASPHALT PAVEMENT

STATION TO STATION	SY
-L- 12+38.08 LT TO -L- 28+16.99 LT	88
TOTAL	88
SAY	90

BN-0025

3B-1

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY



DIVISION FOUR DDC

PREPARED BY



DIVISION FOUR DDC
509 Ward Blvd.
Wilson, NC 27895

COMPUTED BY:	D.R. Ethridge	DATE:	6/3/2026
CHECKED BY:	D.R. Ethridge	DATE:	6/3/2026

***NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)***

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

BN-0025

3D-2

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY



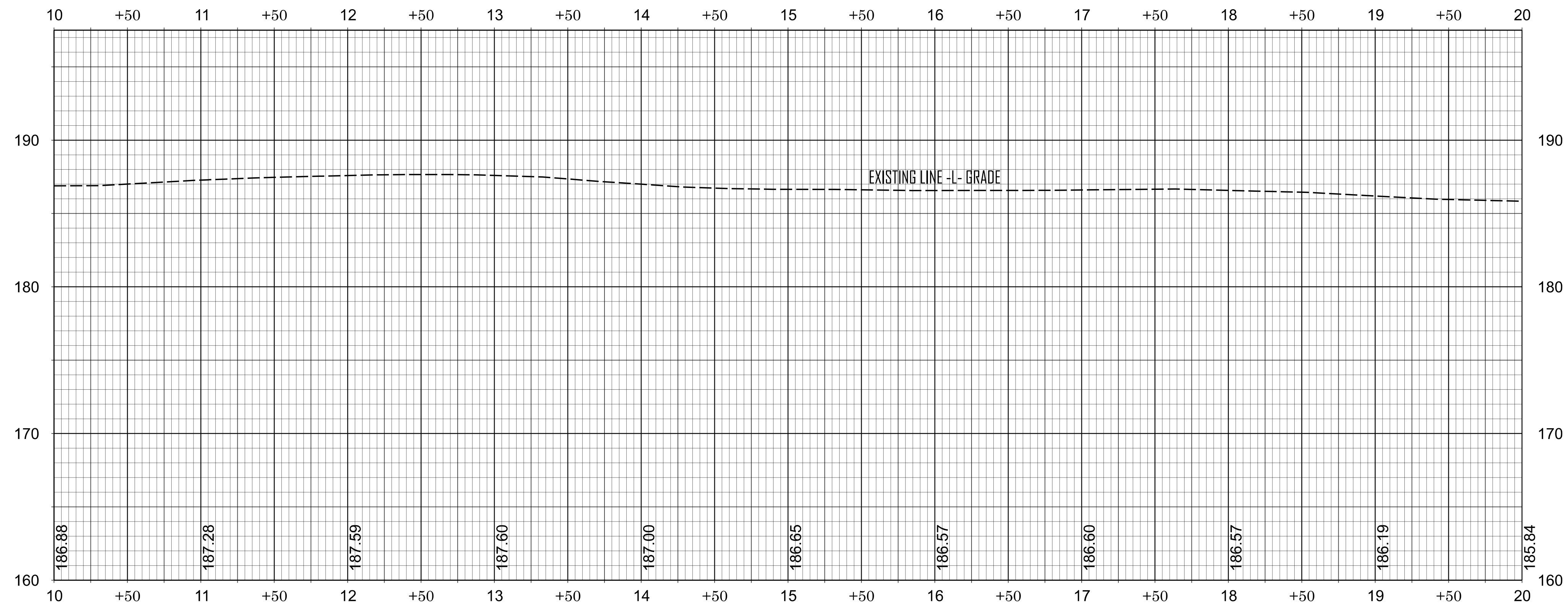
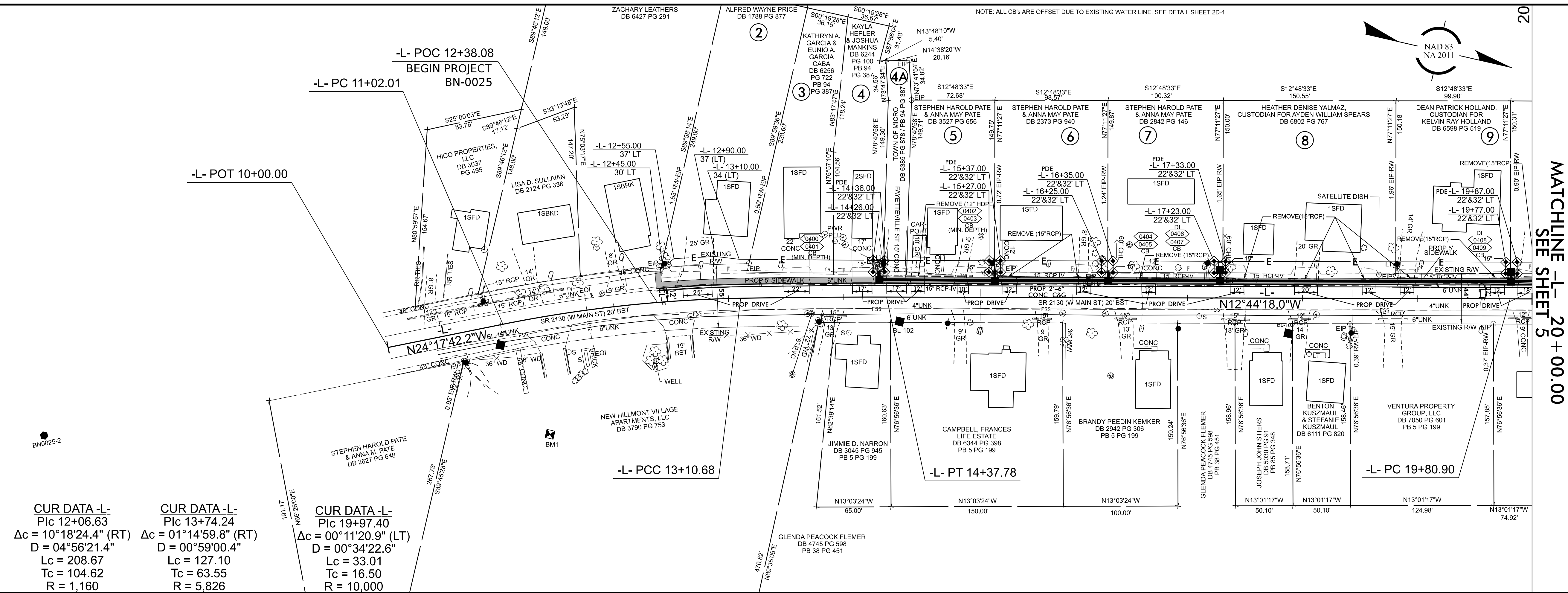
DIVISION FOUR DDC

PREPARED BY

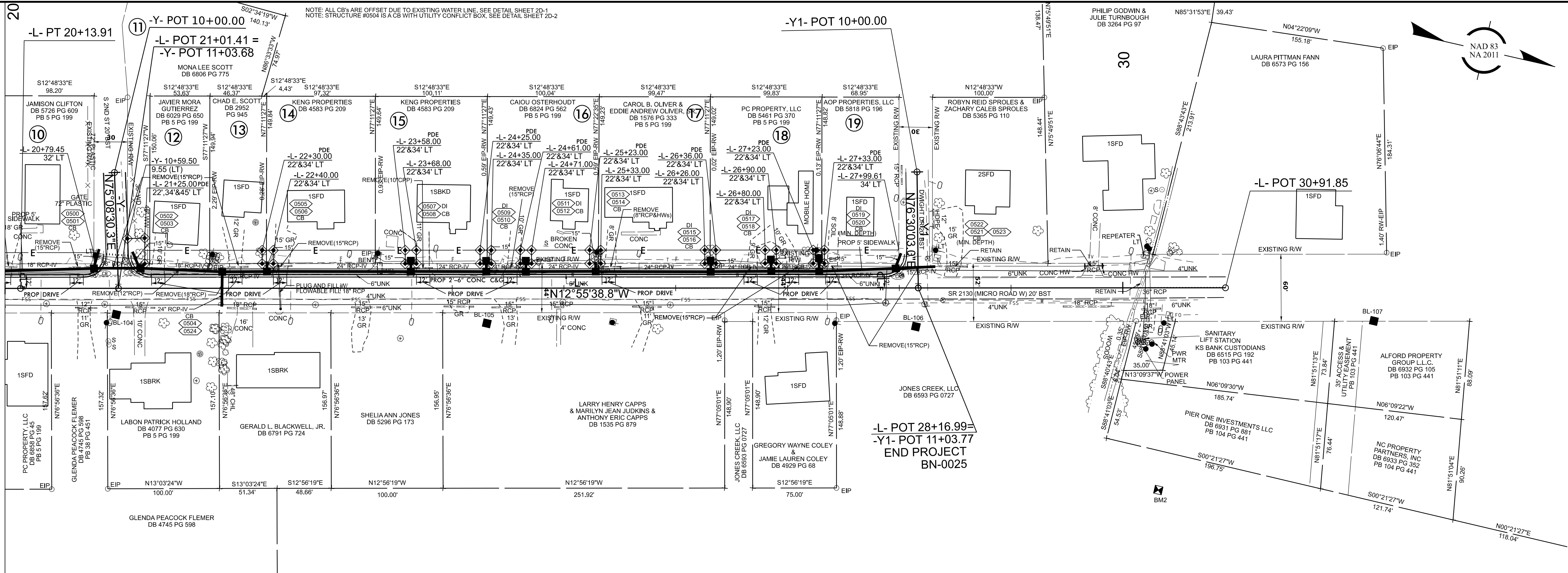


DIVISION FOUR DDC
509 Ward Blvd.
Wilson, NC 27895

[illegible]



MATCHLINE -L- 20 + 00.00
SEE SHEET 4



BN-0025
005
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY

PREPARED BY

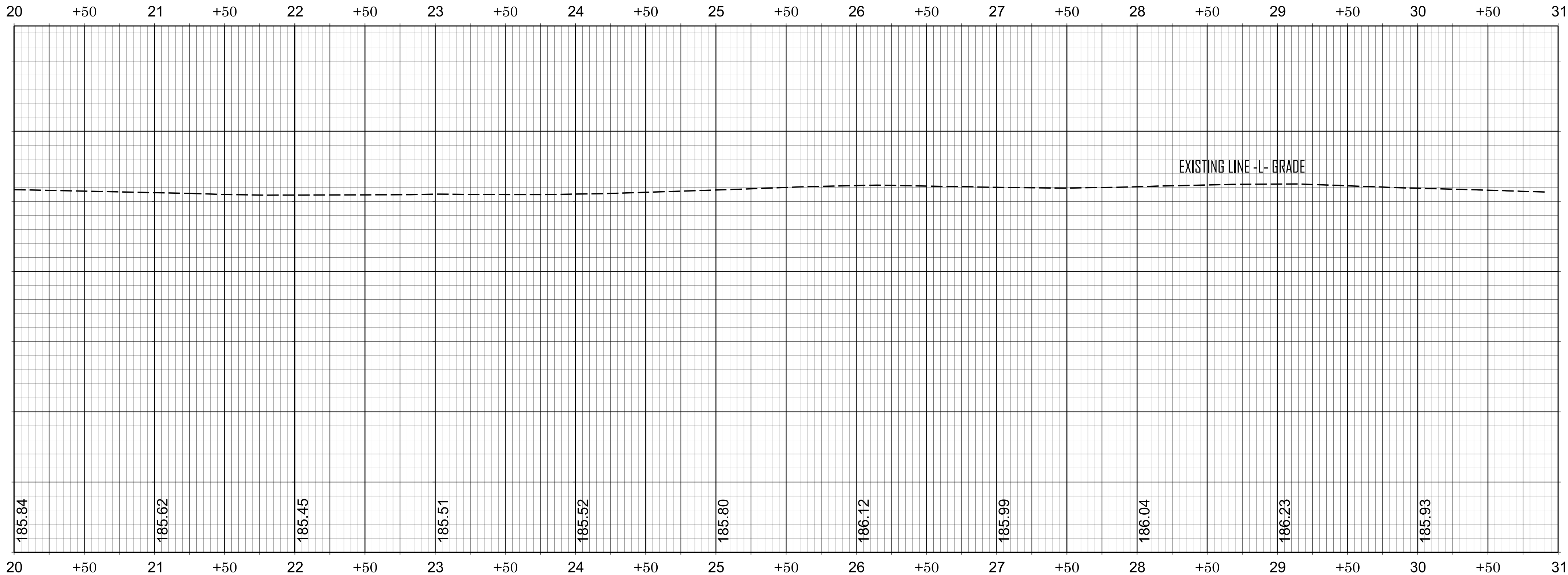
DIVISION FOUR DDC
509 Ward Blvd.
Wilson, NC 27893
ROADWAY DESIGN
ENGINEER

06/17/2023

Norwood A. Ganey III
Signature
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UNLESS ALL SIGNATURES COMPLETED

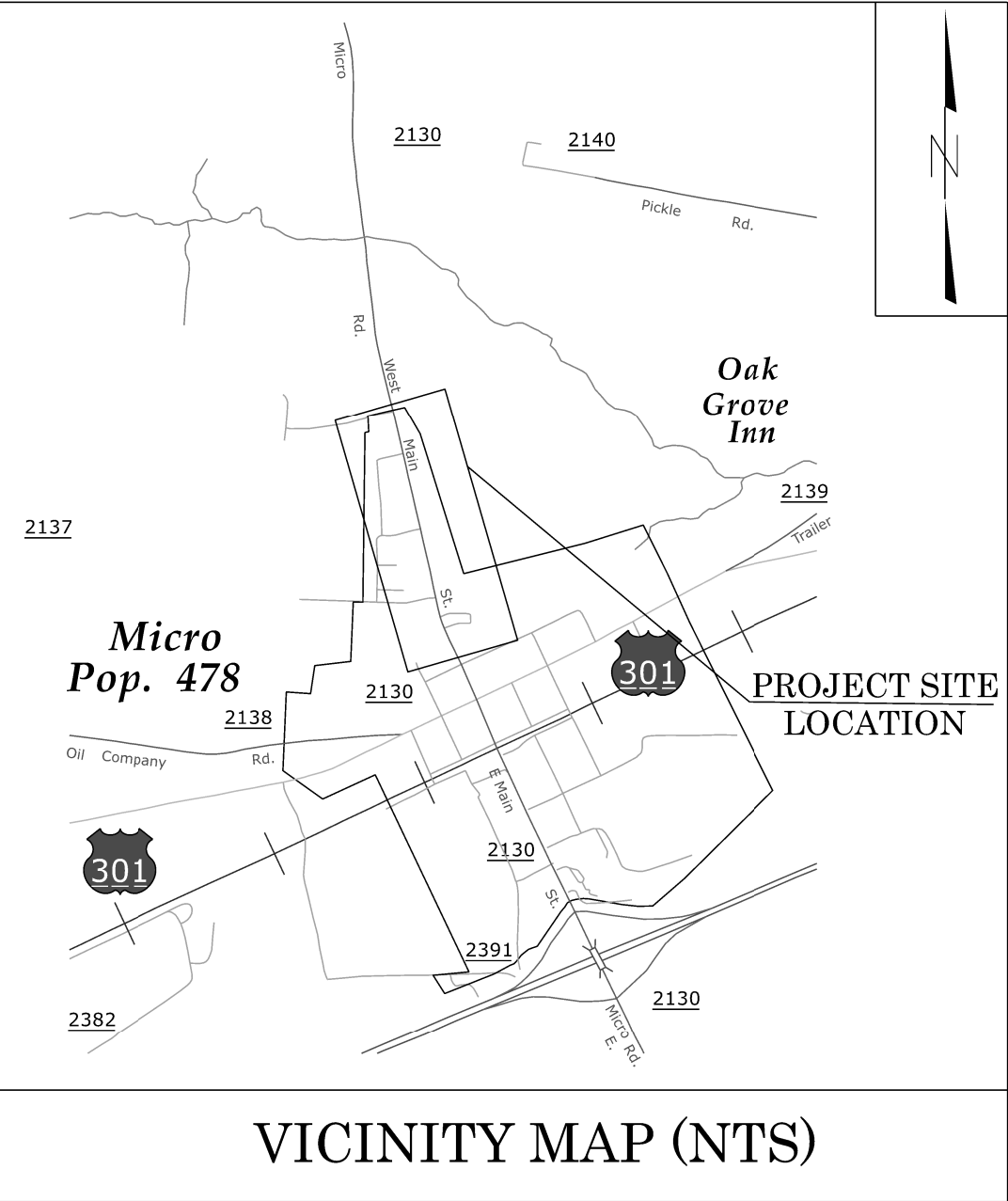
06/17/2023

Benjamin J. Henegar
Signature
C01998950A4504B



TIP PROJECT: BN-0025

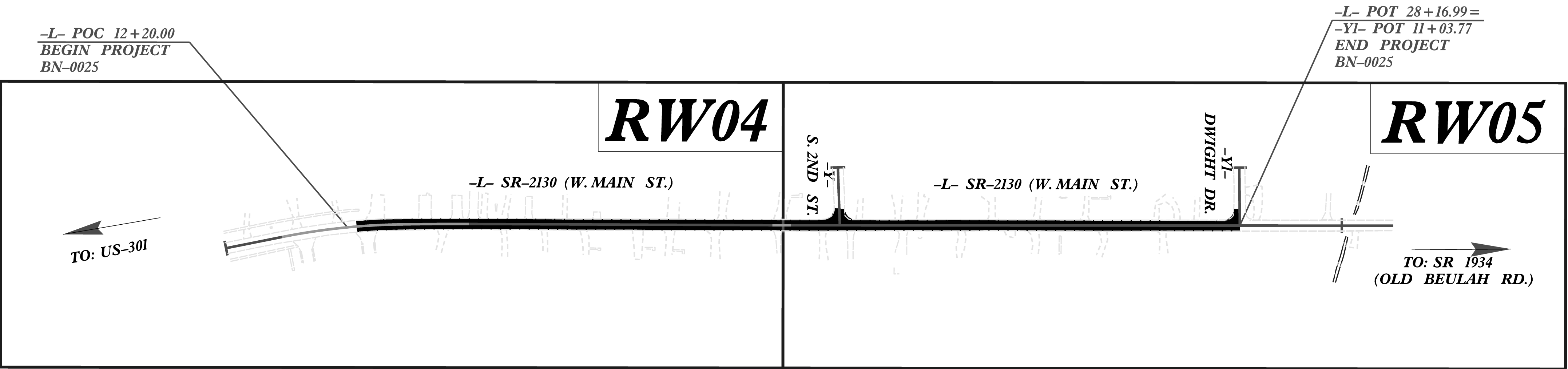
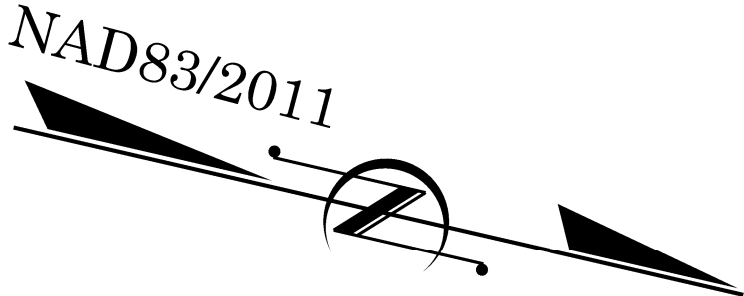
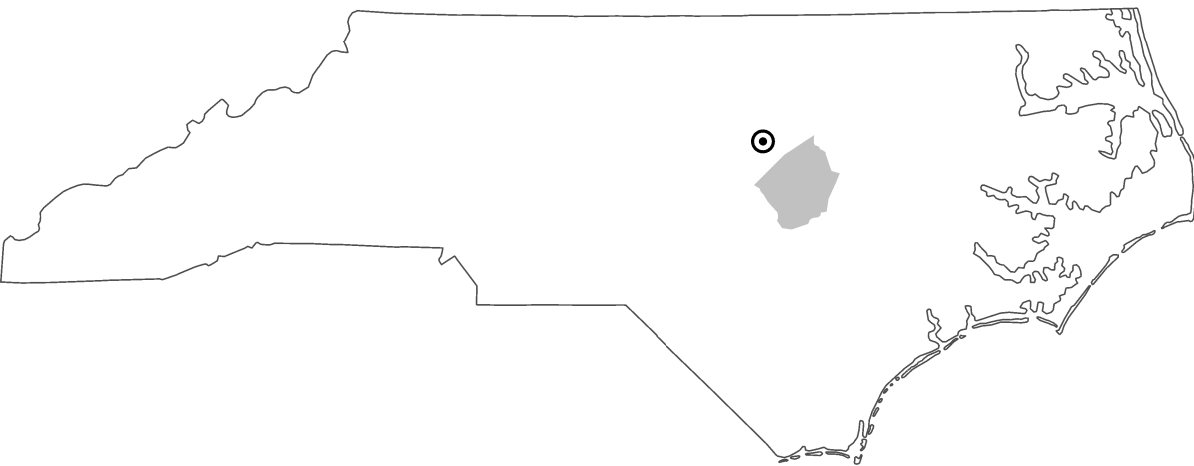
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BN-0025	RW01	8



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

JOHNSTON COUNTY



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT BN0025-2
WITH NAD83/2011 STATE PLANE GRID COORDINATES OF
NORTHING: 661088.0206 EASTING: 2236400.7948
ELEVATION: 187.34
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.9998838245
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:



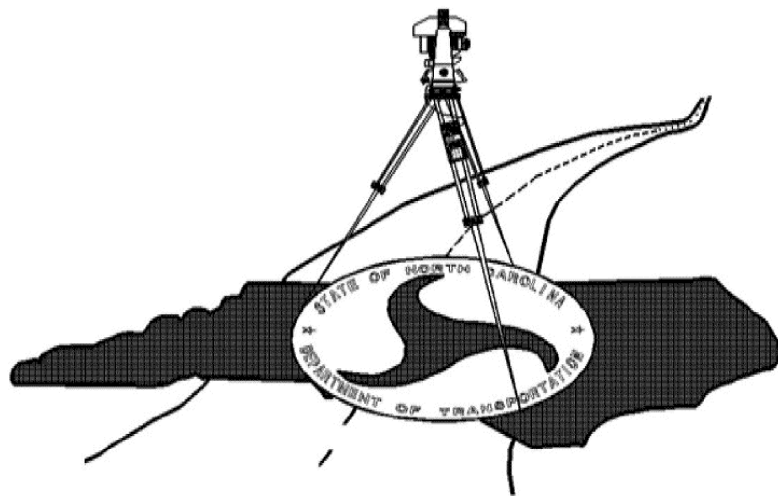
GEOSPHERE LAND SURVEYING OF NC
128 TALBERT ROAD
MOORESVILLE NC 28117
FIRM C-5241

PROFESSIONAL LAND
SURVEYOR

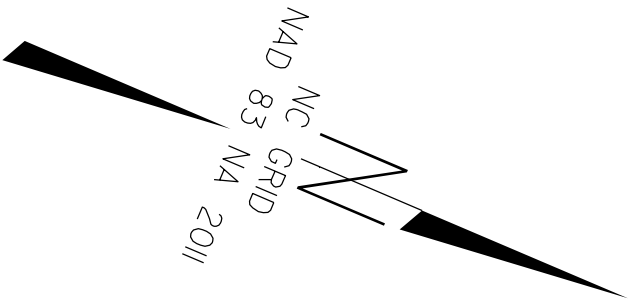


DocuSigned by:
Sarah Vincent
800541188A8A8A8A
SIGNATURE

5/12/2026
DATE



PRIMARY SURVEY CONTROL SHEET



I, Sarah J. Vincent, PLS, CERTIFY THAT THE PRIMARY 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: 1/29/25-2/27/25
DATUM/EPOCH: NAD83/2011
PUBLISHED/FIXED-CONTROL USE: N/A
LOCALIZED AROUND: BN0025-2
NORTHING: 661088.0206
EASTING: 2236400.7948
COMBINED GRID FACTOR: 0.9998838245
GEOID MODEL: GEOID18
UNITS: US Survey Feet

THIS 11TH DAY OF MARCH, 2025.

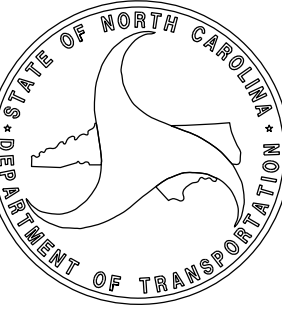
DocuSigned by:
Sarah Vincent
860541786A5848A...

PROFESSIONAL LAND SURVEYOR L-5617

BN0025

R/W 02C-1

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

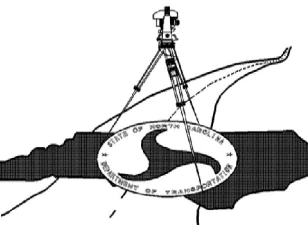


DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: BN0025
County: Johnston

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY



WSP USA, INC.
1001 HICKORY
SUITE 400
RANDLE, NC 27864
TEL: 818.828.4545
WWW.WSP.COM

PRIMARY CONTROL TABLE				
POINT	DESC	NORTH	EAST	ELEVATION
1	BN0025-1	660387.7643	2236665.5267	193.62
2	BN0025-2	661088.0206	2236400.7948	187.34

NOTES:

1. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SEE SHEET RW02C-3
FOR FURTHER ALIGNMENT
AND CONTROL DETAILS

SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Sarah J. Vincent, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 1/29/25 TO 2/27/25, AND ALL COORDINATES ARE BASED ON NAD 83/NA 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 10TH DAY OF MARCH, 2025.

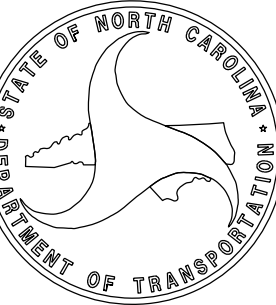
DocuSigned by:
Sarah Vincent
88054178BA848A...

PROFESSIONAL LAND SURVEYOR L-5617

BN0025

R/W 02C-2

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

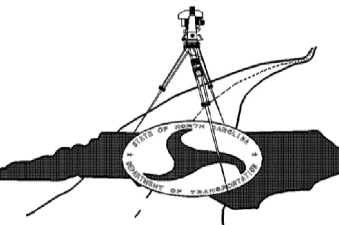


DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: BN0025
County: Johnston

PREPARED FOR

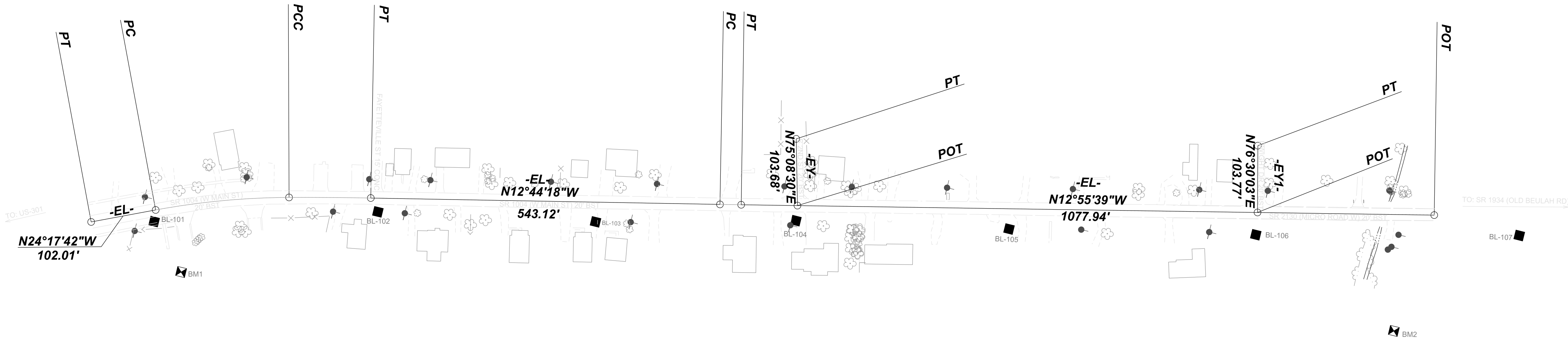


LOCATION AND
SURVEYS UNIT

PREPARED BY



WSP USA, Inc.
1100 N.W. 4th Ave.
Fort Lauderdale, FL 33304
Tel: 313.433.4000
www.wsp.com



NOTES:

1. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SECONDARY SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	661362.9477	2236259.1417							
LINE			N24°17'42.2"W	102.02					
PC	661455.9281	2236217.1691							
CURVE					10°18'24.4" (RT)	04°56'21.4"	208.67	104.62	1160.00
PCC	661652.7943	2236148.8377							
CURVE					01°14'59.8" (RT)	00°59'00.4"	127.10	63.55	5826.00
PT	661776.4497	2236119.4625							
LINE			N12°44'18.0"W	543.12					
PC	662306.1978	2235999.7061							
CURVE					00°11'20.9" (LT)	00°34'22.6"	33.01	16.50	10000.00
PT	662338.3819	2235992.3747							
LINE			N12°55'38.8"W	1077.94					
END	663389.0011	2235751.2209							

EXISTING ALIGNMENT NAME:EY									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	662397.0838	2235872.5812							
LINE			N75°08'30.3"E	103.68					
END	662423.6712	2235972.7978							

EXISTING ALIGNMENT NAME:EY1									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	663096.8869	2235711.8055							
LINE			N76°30'03.0"E	103.77					
END	663121.1106	2235812.7111							

BASELINE POINTS TABLE				
POINT	DESC	NORTH	EAST	ELEVATION
101	BL-101	661457.9993	2236235.1761	186.42
102	BL-102	661792.3251	2236137.6656	185.93
103	BL-103	662124.7146	2236072.1294	186.27
104	BL-104	662426.9561	2235996.0670	184.76
105	BL-105	662751.9584	2235929.6962	184.71
106	BL-106	663126.7593	2235846.8792	185.13
107	BL-107	663525.0219	2235750.4535	185.78

BENCHMARK TABLE				
POINT	NORTH	EAST	ELEV	DESC
BM1	661517.3613	2236301.4085	187.45	X IN CONC BASE OF LP
BM2	663370.8164	2235940.9869	186.78	TIE SET IN 40 IN PINE

I, Sarah J. Vincent, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 1/29/25 TO 2/27/25, AND ALL COORDINATES ARE BASED ON NAD 83/NA 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 10TH DAY OF MARCH, 2025.

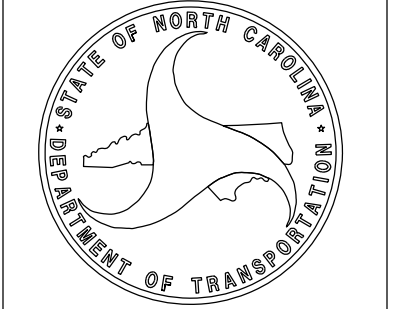
DocuSigned by:
Sarah J. Vincent
860541768A5846A...

PROFESSIONAL LAND SURVEYOR L-5617

BN0025

R/W02C-3

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

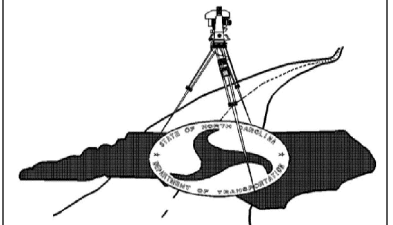


DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

2024 STANDARD
SPECIFICATIONS

TIP PROJECT: BN0025
County: Johnston

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY



WSP LOGO TAG:
100% RECYCLED
PAPER, 100%
RECYCLED INK
PRINTED IN THE
USA

NOTES:

1. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROPOSED ALIGNMENT CONTROL SHEET

I, Sarah J. Vincent, PLS, CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPING PERFORMED BY OTHERS AND PROVIDED TO ME BY NCDOT AND DO NOT CERTIFY TO THE ACCURACY OR QUALITY OF THE INDIVIDUAL DATA SOURCES.

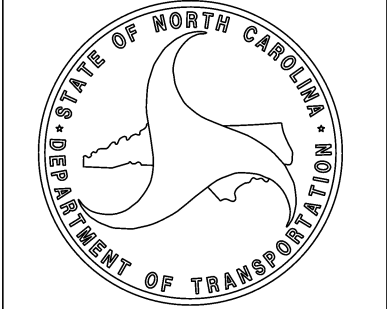
THIS 12TH DAY OF MAY, 2026.

DocuSigned by:
Sarah Vincent
PROFESSIONAL LAND SURVEYOR L-5617

BN-0025

R/W02D-I

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

PROPOSED ALIGNMENT: L												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	661362.9477	2236259.1417	N24°17'42.2"W	102.01							
PC	11+02.01	661455.9281	2236217.1691	N19°08'30.0"W	208.39	10°18'24.4"	04°56'21.4"	208.67	104.62	1160.00		
PCC	13+10.68	661652.7943	2236148.8377	N13°21'47.9"W	127.10	01°14'59.8"	00°59'00.4"	127.10	63.55	5826.00		
PT	14+37.78	661776.4497	2236119.4625	N12°44'18.0"W	543.12							
PC	19+80.90	662306.1978	2235999.7061	N12°49'58.4"W	33.01	00°11'20.9"	00°34'22.6"	33.01	16.50	10000.00		
PT	20+13.91	662338.3819	2235992.3747	N12°55'38.8"W	1077.94							
END	30+91.85	663389.0011	2235751.2209									

PROPOSED ALIGNMENT: Y												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	662397.0838	2235872.5812	N75°08'30.3"E	103.68							
END	11+03.68	662423.6712	2235972.7978									

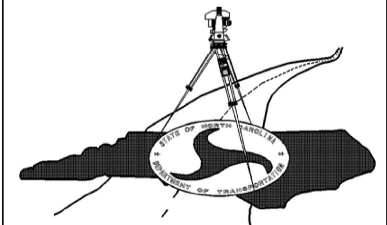
PROPOSED ALIGNMENT: Y1												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	663096.8869	2235711.8055	N76°30'03.0"E	103.77							
END	11+03.77	663121.1106	2235812.7111									

NOTES:

1. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

TIP PROJECT: BN-0025
County: Johnston

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY



GEOSPHERE LAND SURVEYING OF NC
128 TALBERT ROAD
MOORESVILLE NC 28117
FIRM C-5241

RIGHT OF WAY CONTROL SHEET

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L			
STATION	OFFSET	NORTH	EAST
14+26.00	-32.00	661757.8401	2236090.8742
14+26.00	-22.00	661760.0648	2236100.6236
14+36.00	-32.00	661767.6453	2236088.6474
14+36.00	-22.00	661769.8529	2236098.3989
15+27.00	-32.00	661856.4147	2236068.5779
15+27.00	-22.00	661858.6196	2236078.3317
15+37.00	-32.00	661866.1685	2236066.3729
15+37.00	-22.00	661868.3735	2236076.1268
16+25.00	-32.00	661952.0026	2236046.9690
16+25.00	-22.00	661954.2076	2236056.7229
16+35.00	-22.00	661963.9615	2236054.5179
16+35.00	-32.00	661961.7565	2236044.7640
17+23.00	-32.00	662047.5906	2236025.3601
17+23.00	-22.00	662049.7955	2236035.1140
17+33.00	-32.00	662057.3444	2236023.1551
17+33.00	-22.00	662059.5494	2236032.9090
19+77.00	-32.00	662295.3389	2235969.3534
19+77.00	-22.00	662297.5439	2235979.1073
19+87.00	-22.00	662307.2843	2235976.9035
19+87.00	-32.00	662305.0733	2235967.1509
21+25.00	-45.00	662436.5914	2235923.6619
21+25.00	-22.00	662441.7369	2235946.0790
22+30.00	-34.00	662541.3910	2235910.8928
22+30.00	-22.00	662544.0756	2235922.5887
22+40.00	-34.00	662551.1375	2235908.6556
22+40.00	-22.00	662553.8221	2235920.3515
23+58.00	-34.00	662666.1467	2235882.2570
23+58.00	-22.00	662668.8313	2235893.9529
23+68.00	-34.00	662675.8932	2235880.0198
23+68.00	-22.00	662678.5779	2235891.7157
24+25.00	-34.00	662731.4485	2235867.2680
24+25.00	-22.00	662734.1331	2235878.9638
24+35.00	-34.00	662741.1951	2235865.0308
24+35.00	-22.00	662743.8797	2235876.7266
24+61.00	-34.00	662766.5361	2235859.2141
24+61.00	-22.00	662769.2207	2235870.9100
24+71.00	-22.00	662778.9672	2235868.6728
24+71.00	-34.00	662776.2826	2235856.9770
25+23.00	-34.00	662826.9646	2235845.3437
25+23.00	-22.00	662829.6492	2235857.0395
25+33.00	-34.00	662836.7112	2235843.1065
25+33.00	-22.00	662839.3958	2235854.8024
26+26.00	-34.00	662927.354	2235822.3008
26+26.00	-22.00	662930.0386	2235833.9967
26+36.00	-22.00	662939.7852	2235831.7595
26+36.00	-34.00	662937.1005	2235820.0636
26+80.00	-34.00	662979.9853	2235810.2201
26+80.00	-22.00	662982.6699	2235821.9159
26+90.00	-34.00	662989.7319	2235807.9829
26+90.00	-22.00	662992.4165	2235819.6788
27+23.00	-22.00	663024.5801	2235812.2961
27+23.00	-34.00	663021.8955	2235800.6003
27+33.00	-34.00	663031.6420	2235798.3631
27+33.00	-22.00	663034.3266	2235810.0589

PERMANENT EASEMENT MARKER IRON PIN AND CAP: Y			
STATION	OFFSET	NORTH	EAST
10+59.50	-9.55	662421.5767	2235927.6453

I, Sarah J. Vincent, PLS, CERTIFY THAT THE RIGHT OF WAY AND PERMANENT EASEMENT MONUMENTATION FOR THIS PROJECT SHOWN HEREIN 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 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 2/24/2026 TO 2/26/2025, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

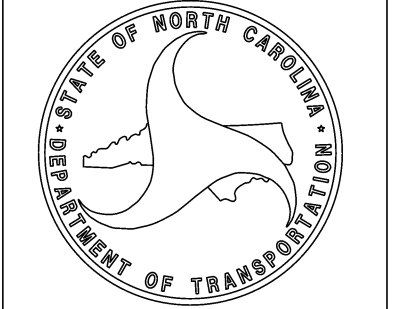
THIS 12TH DAY OF MAY, 2026.

DocuSigned by:
Sarah Vincent
8605417B8A5848A
PROFESSIONAL LAND SURVEYOR L-5617

BN-0025

R/W03E-1

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



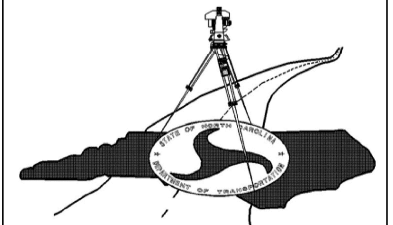
PROFESSIONAL LAND
SURVEYOR



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

TIP PROJECT: BN-0025
County: Johnston

PREPARED FOR



LOCATION AND
SURVEYS UNIT

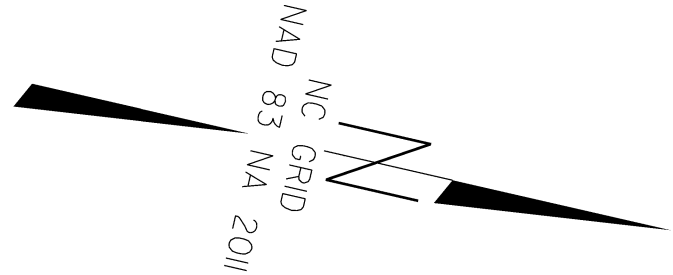
PREPARED BY



GEOSPHERE LAND SURVEYING OF NC
126 TALBERT ROAD
MOORESVILLE NC 28117
FIRM C-5241

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



CUR DATA -L-
P/c 12+06.63
 $\Delta c = 10^\circ 18' 24.4''$ (RT)
 $D = 04^\circ 56' 21.4''$
Lc = 208.67
Tc = 104.62
R = 1,160
SE = 0.000

CUR DATA -L-
P/c 13+74.24
 $\Delta c = 01^\circ 14' 59.8''$ (RT)
 $D = 00^\circ 59' 00.4''$
Lc = 127.10
Tc = 63.55
R = 5,826
SE = 0.000

CUR DATA -L-
P/c 19+97.40
 $\Delta c = 00^\circ 11' 20.9''$ (LT)
 $D = 00^\circ 34' 22.6''$
Lc = 33.01
Tc = 16.50
R = 10,000
SE = 0.000



I, Sarah J. Vincent, PLS, CERTIFY THAT THE RIGHT OF WAY AND PERMANENT EASEMENT MONUMENTATION FOR THIS PROJECT SHOWN HEREIN 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 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 2/24/2026 TO 2/26/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 12TH DAY OF MAY, 2026.

DocuSigned by:

Sarah Vincent

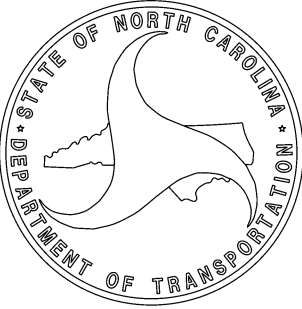
86054178BA5846A

PROFESSIONAL LAND SURVEYOR L-5617

BN-0025

R/W 04

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



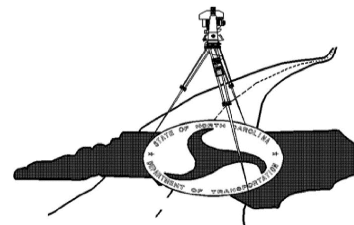
PROFESSIONAL LAND
SURVEYOR



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

TIP PROJECT: BN-0025
County: Johnston

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

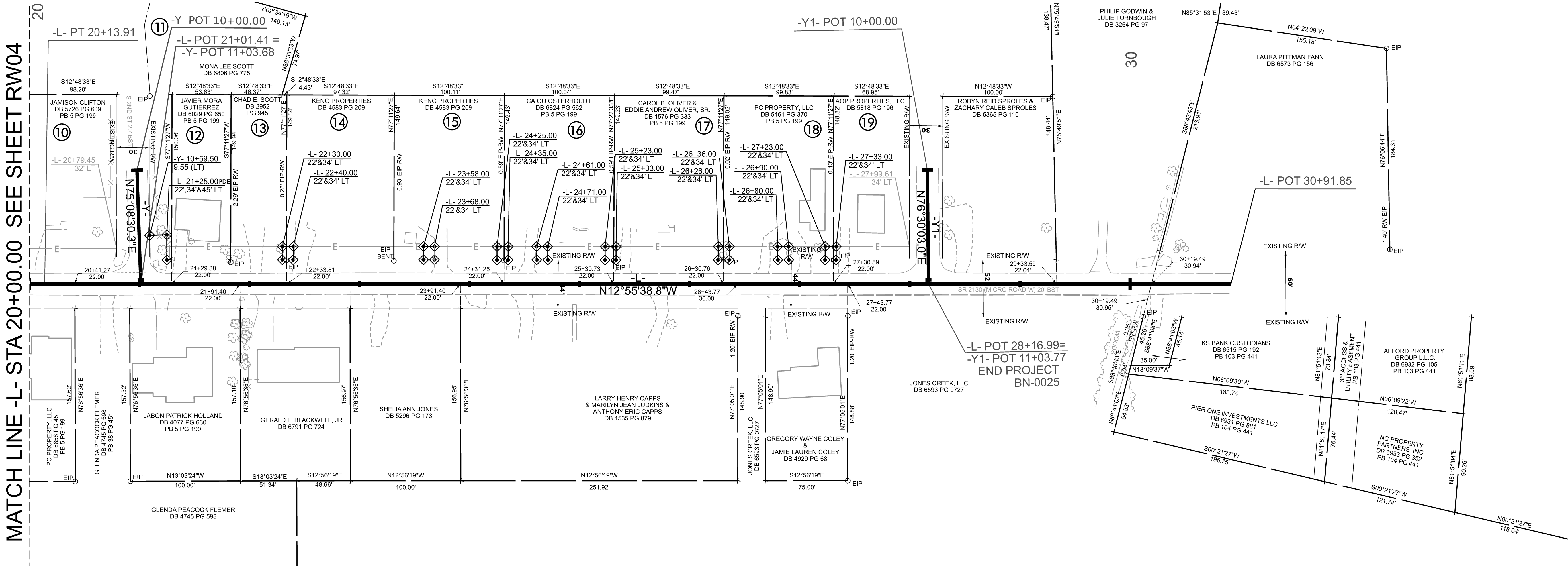


GEOSPHERE LAND SURVEYING OF NC
128 TALBERT ROAD
MOORESVILLE NC 28117
FRM C-5241

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

MATCH LINE -L- STA 20+00.00 SEE SHEET RW05



I, Sarah J. Vincent, PLS, CERTIFY THAT THE RIGHT OF WAY AND PERMANENT EASEMENT MONUMENTATION FOR THIS PROJECT SHOWN HEREIN 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 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 2/24/2026 TO 2/26/2026, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

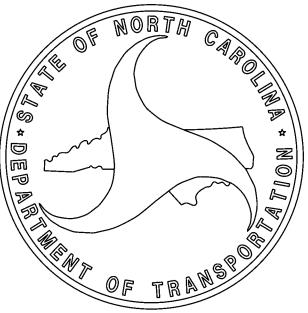
THIS 12TH DAY OF MAY, 2026.

DocuSigned by:
Sarah Vincent
8905417B8A5846A
PROFESSIONAL LAND SURVEYOR L-5617

BN-0025

R/W 05

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



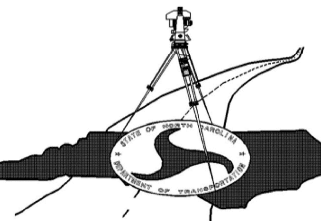
PROFESSIONAL LAND
SURVEYOR



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FINAL UNLESS ALL SIGNATURES
ARE COMPLETED

TIP PROJECT: BN-0025
County: Johnson

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

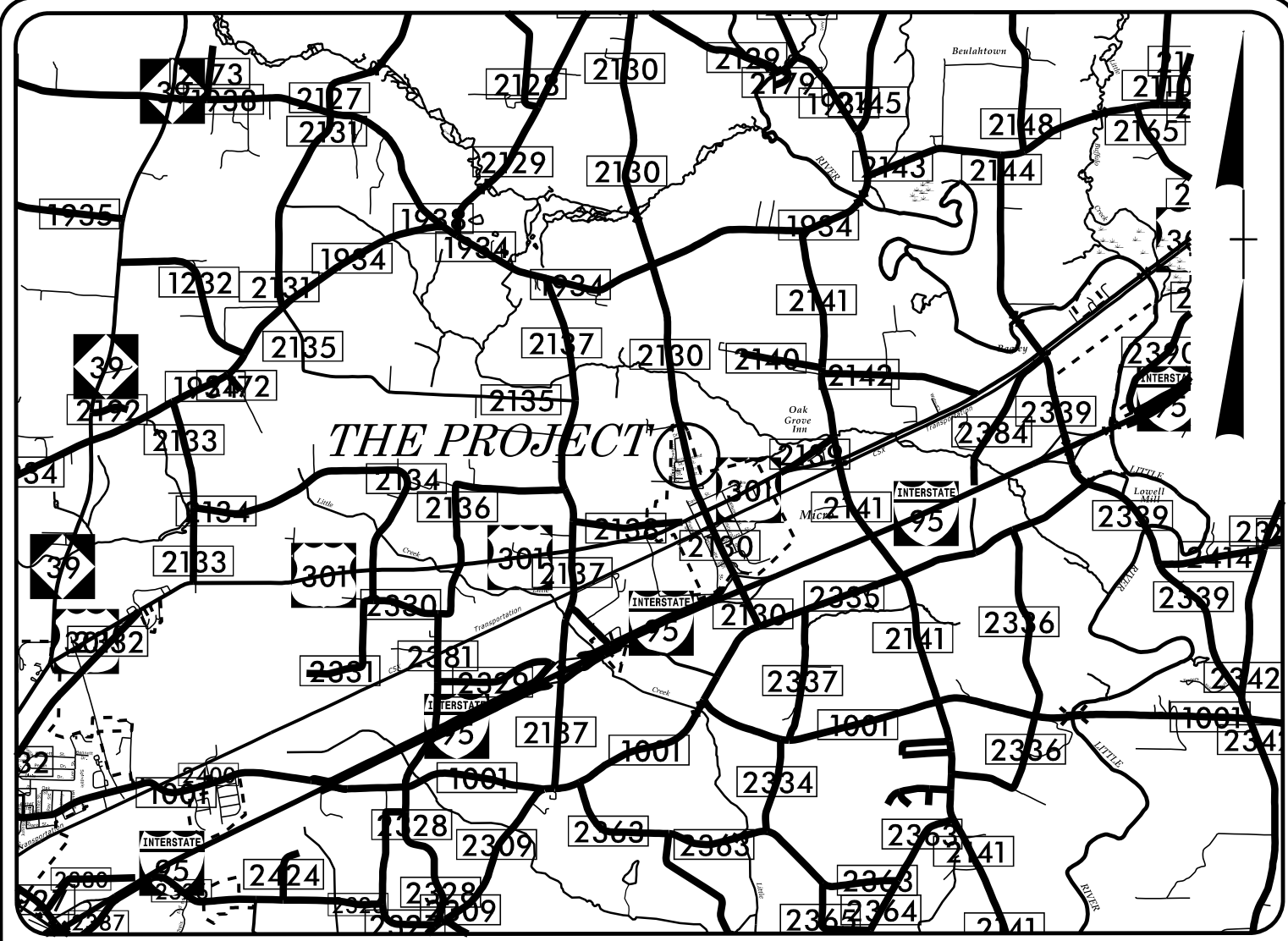
wsp
GEOSPHERE LAND SURVEYING OF NC
128 TALBERT ROAD
MOORESVILLE NC 28117
FROM C-2241

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



TIP PROJECT: BN-0025



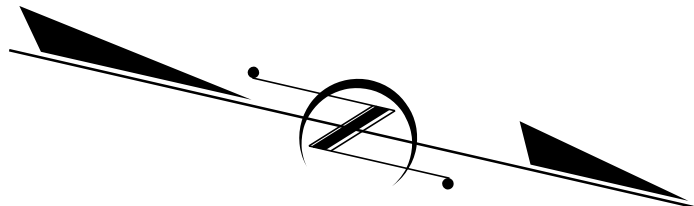
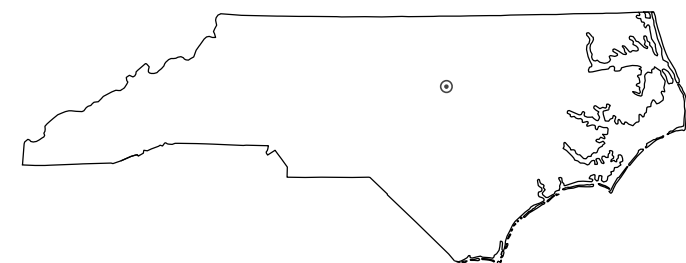
VICINITY MAP

NOT TO SCALE

-L- POC 12+20.00
BEGIN PROJECT
BN-0025

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BN-0025	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

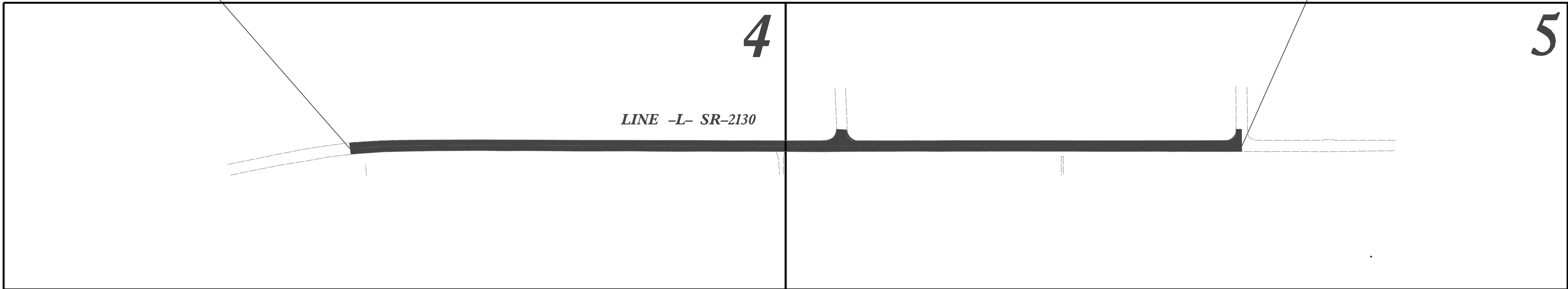
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY



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

LOCATION: SR 2130 (WEST MAIN STREET) FROM SOUTH OF FAYETTEVILLE STREET TO DWIGHT DRIVE IN MICRO. CONSTRUCT SIDEWALK
TYPE OF WORK: GRADE, DRAINAGE & PAVEMENT

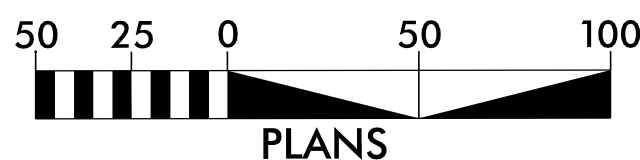
-L- POT 28+16.99 =
-YI- POT 11+03.77
END PROJECT
BN-0025



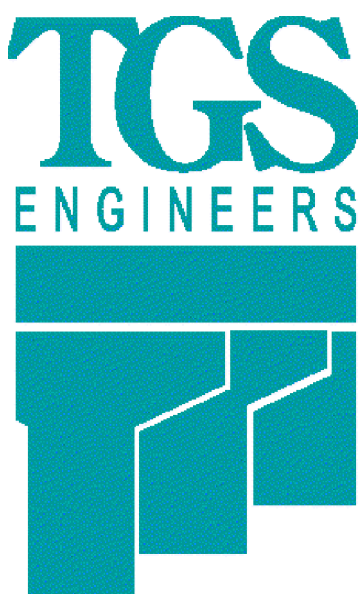
THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

GRAPHIC SCALE



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



Prepared In the Office of:
TGS ENGINEERS
706 HILLSBOROUGH ST
SUITE 200
RALEIGH, NC 27603

Designed by:

Ben Henegar, PE
NAME

3564

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

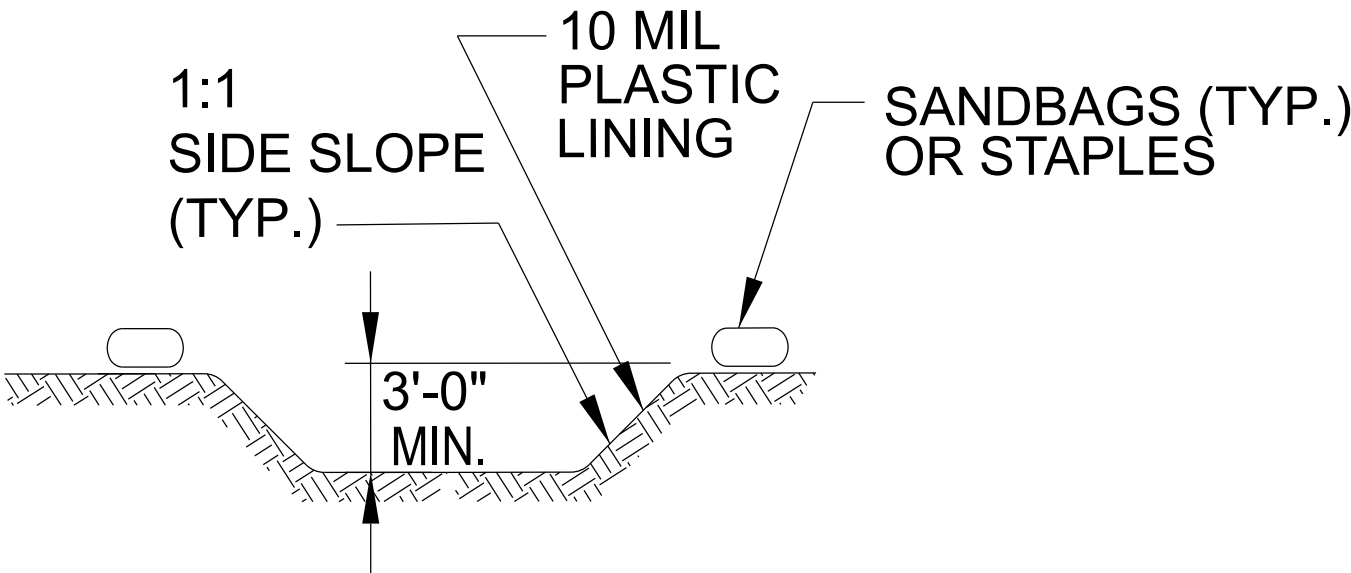
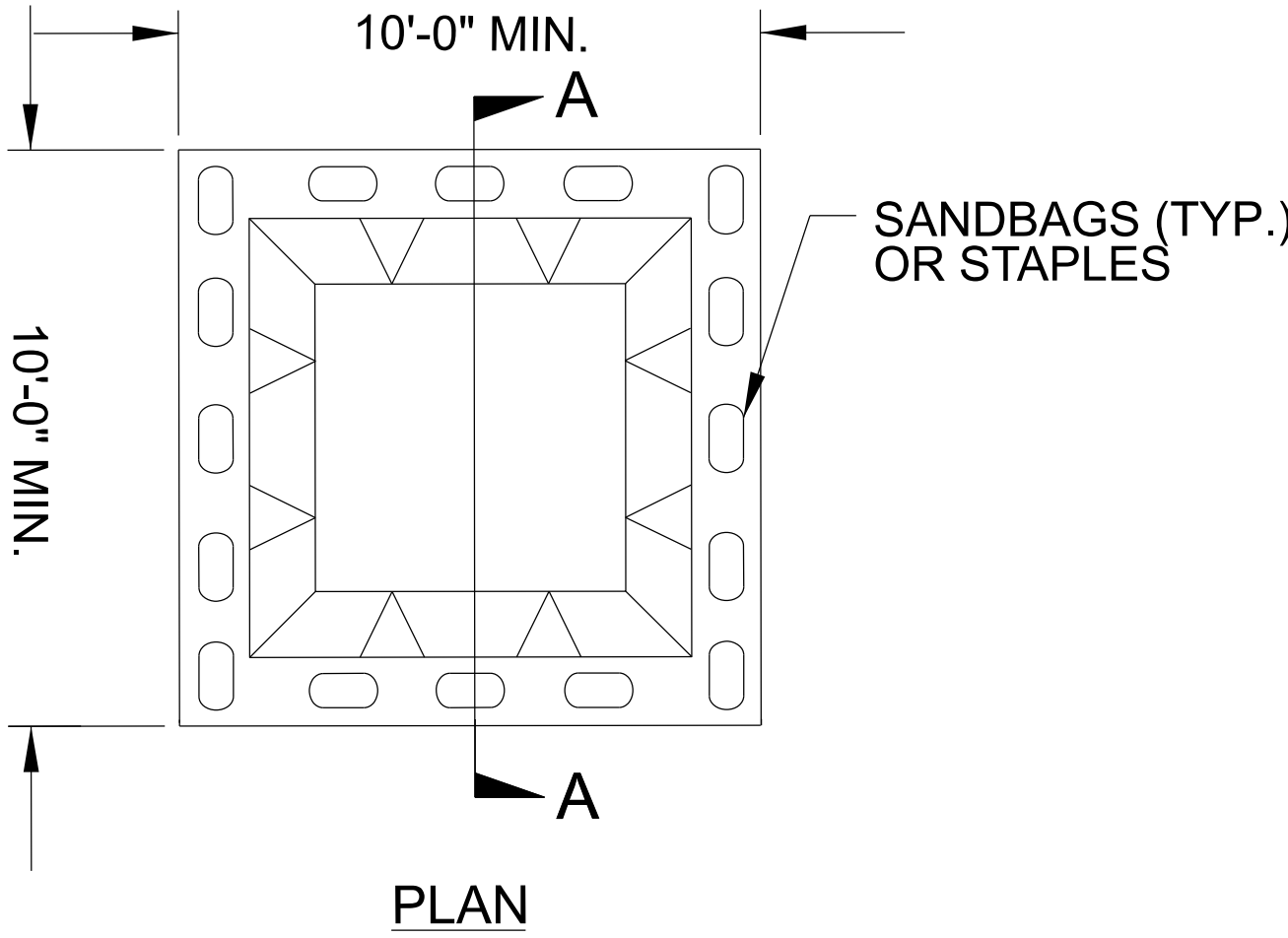
PROJECT REFERENCE NO.	SHEET NO.
BN-0025	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

PROJECT REFERENCE NO.	SHEET NO.
<i>BN-0025</i>	<i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

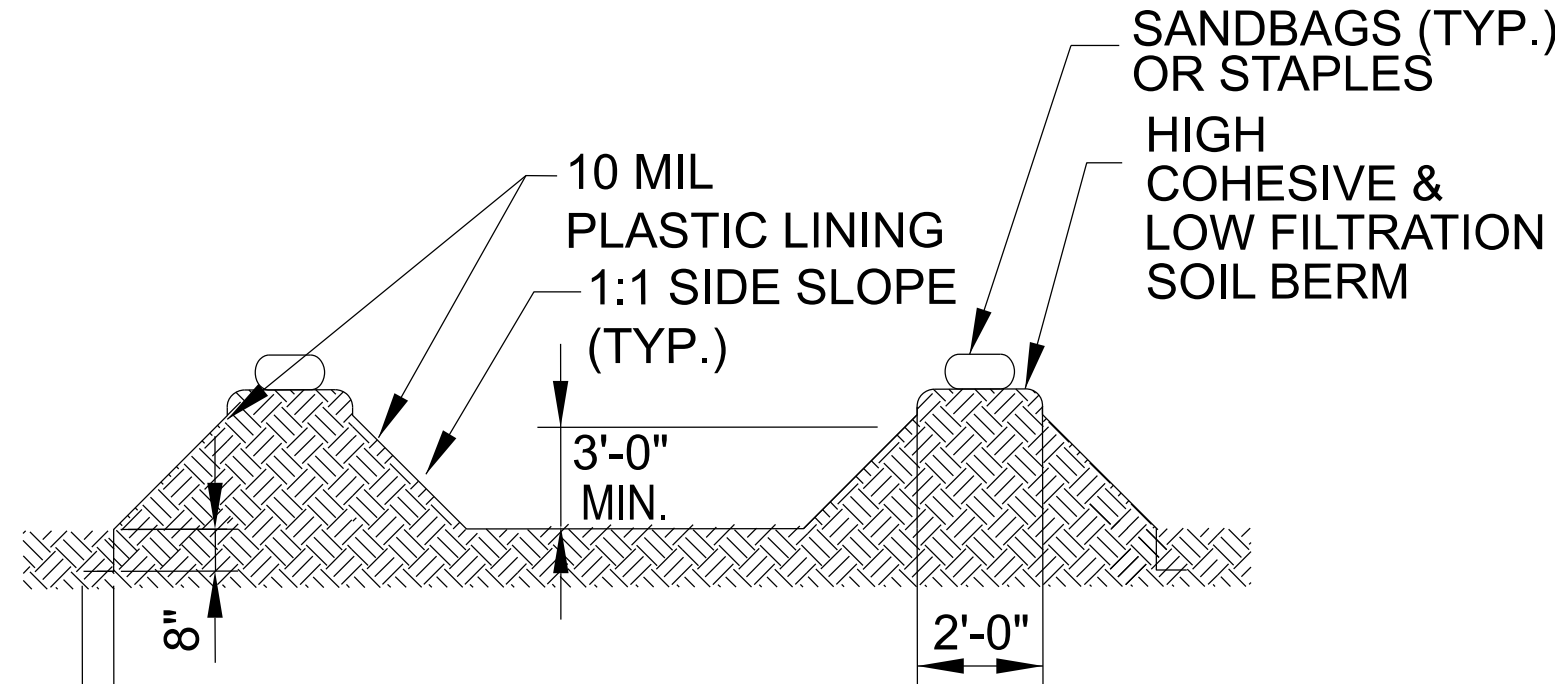
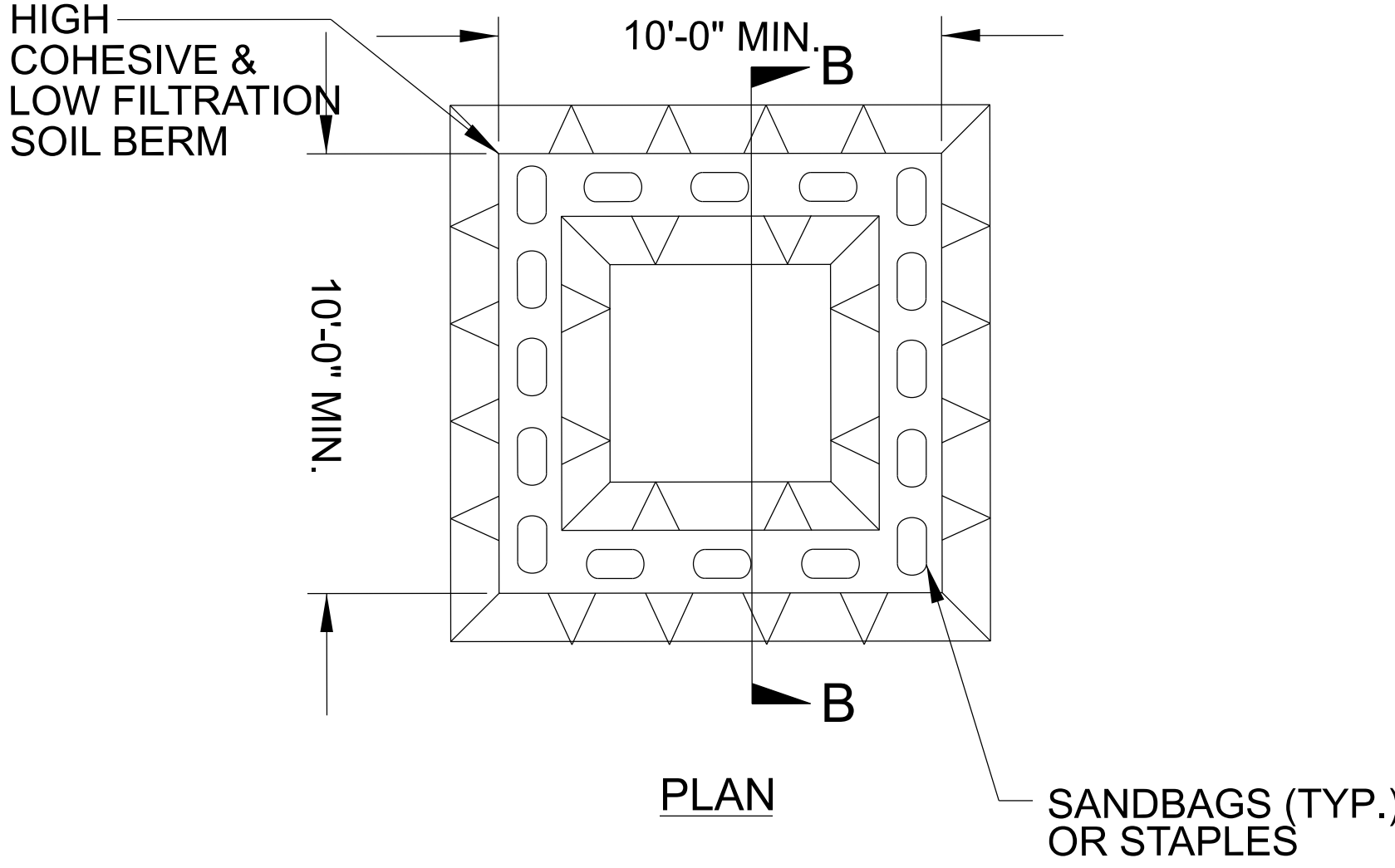


SECTION A-A



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



SECTION B-B



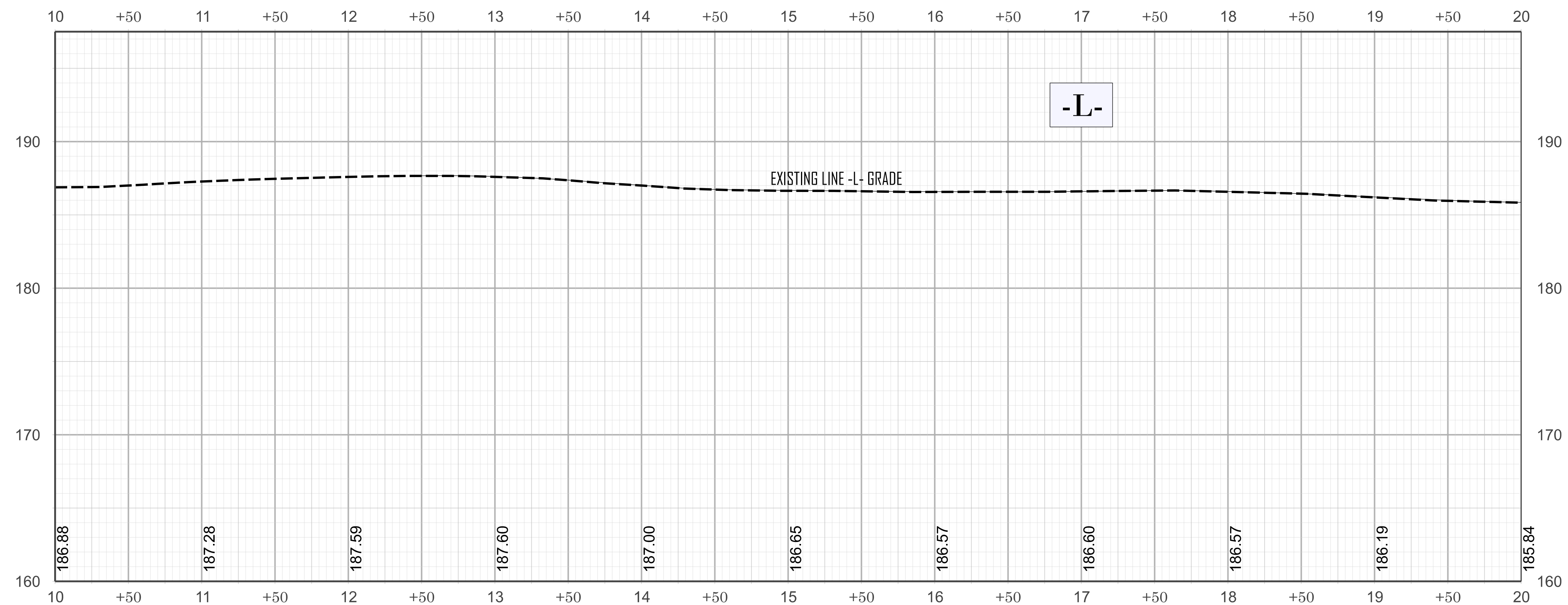
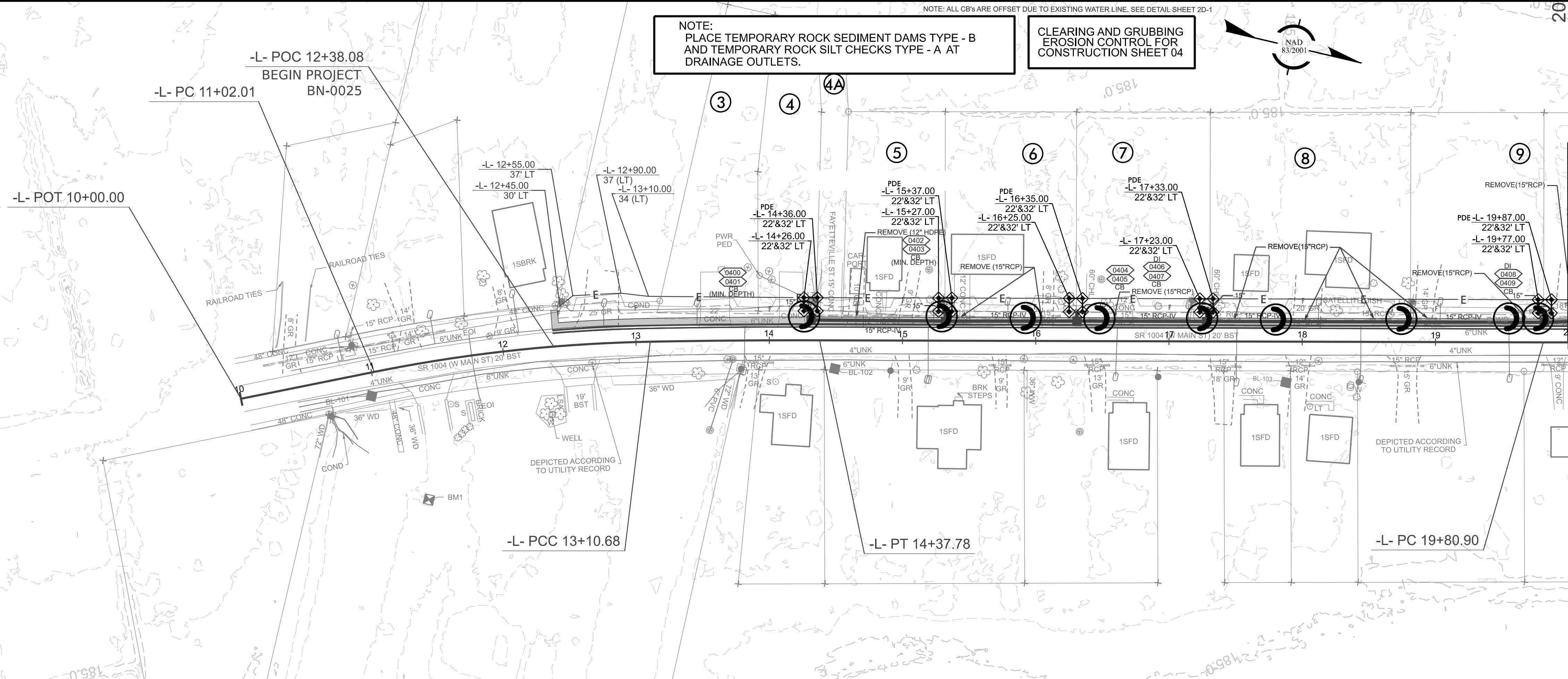
ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

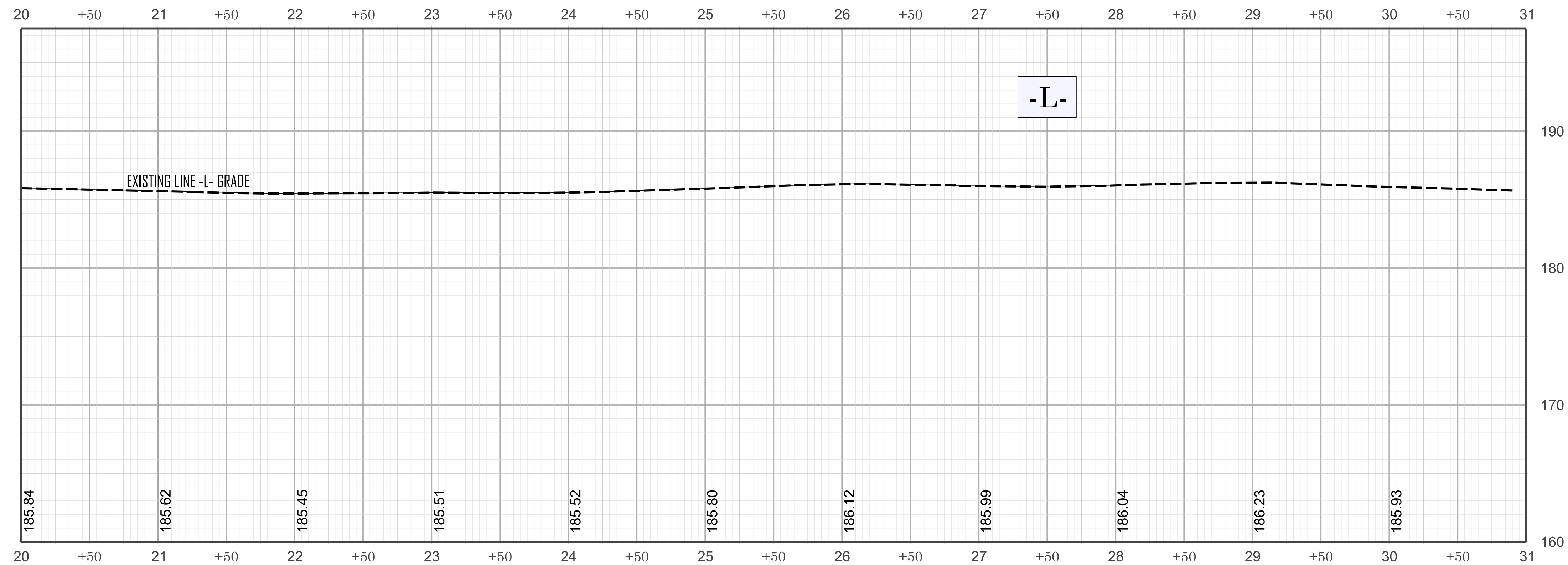
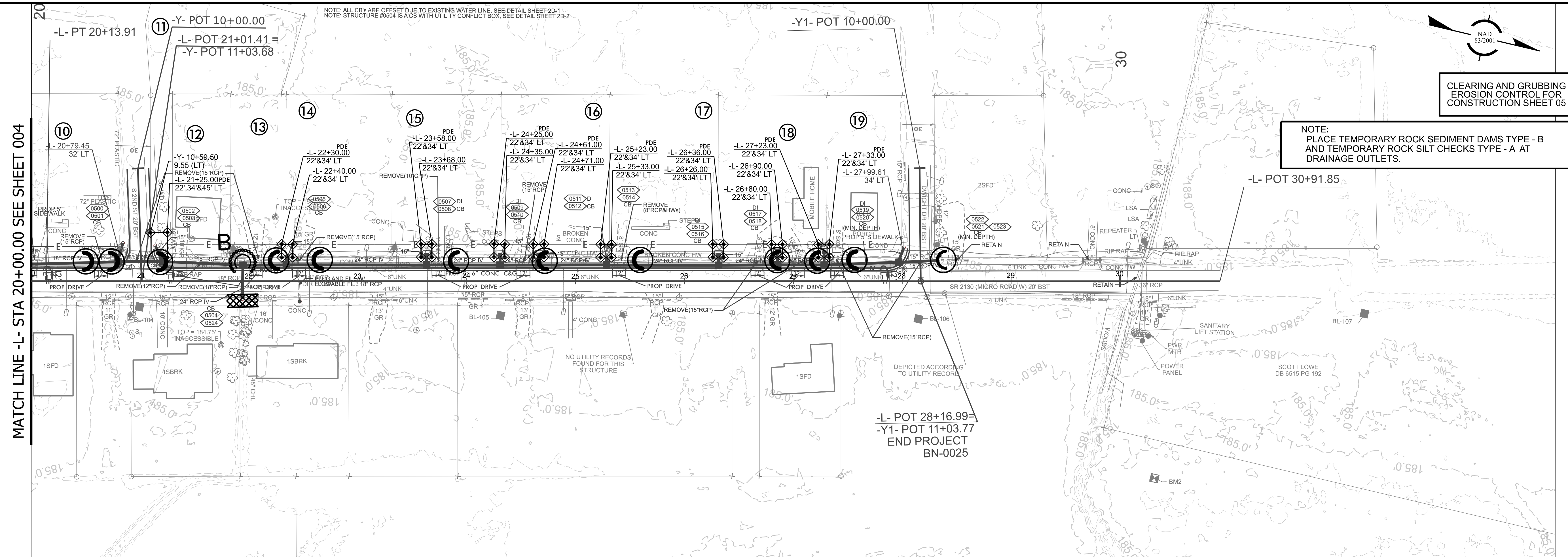
- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

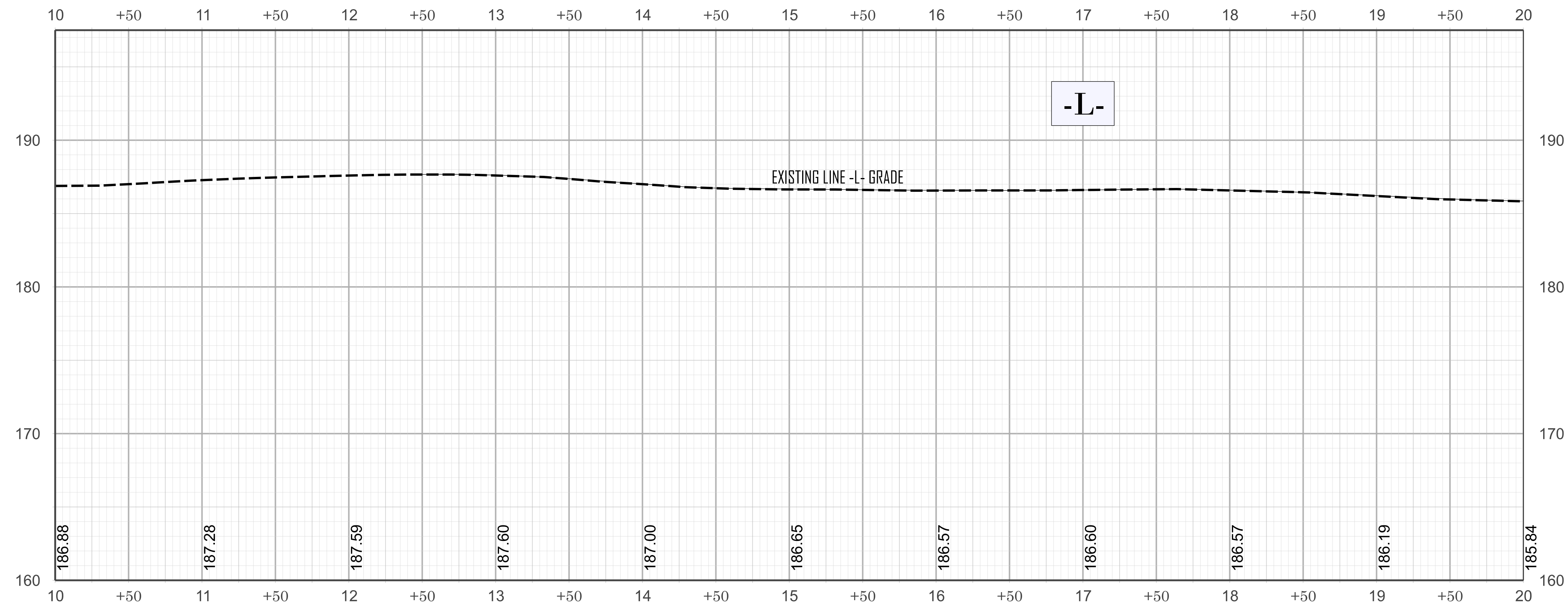
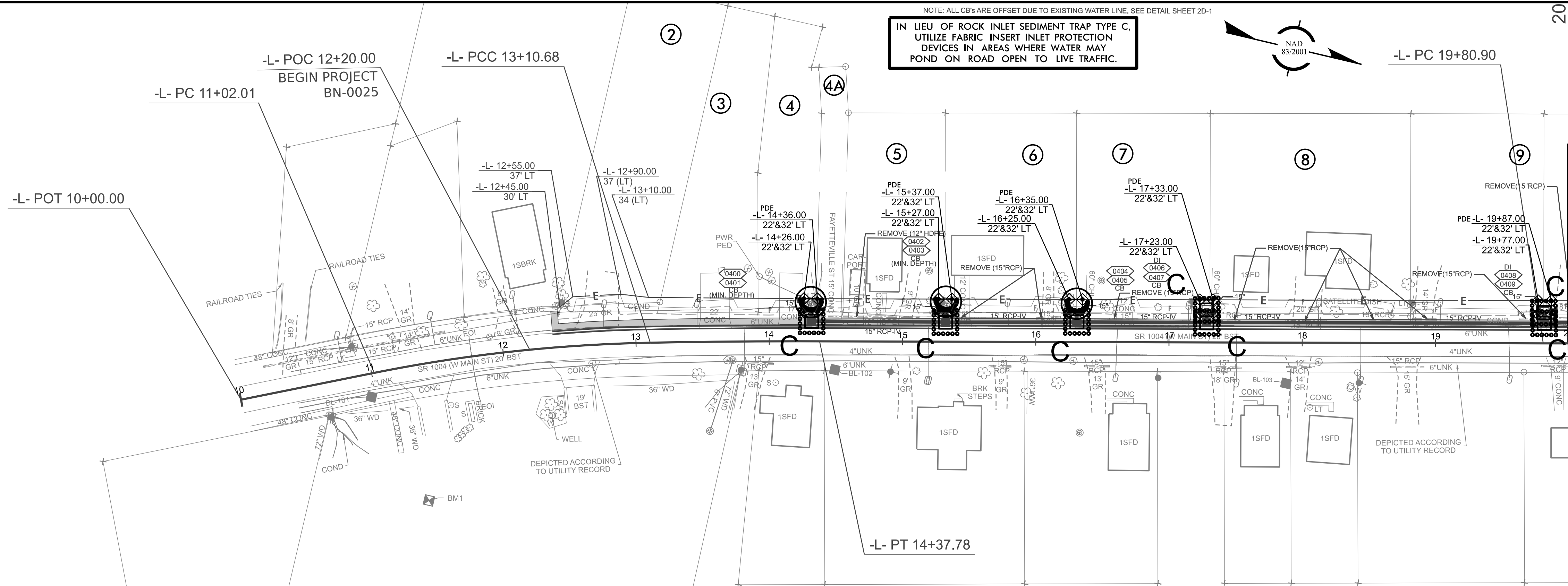
PROJECT REFERENCE NO.	SHEET NO.
BN-0025	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

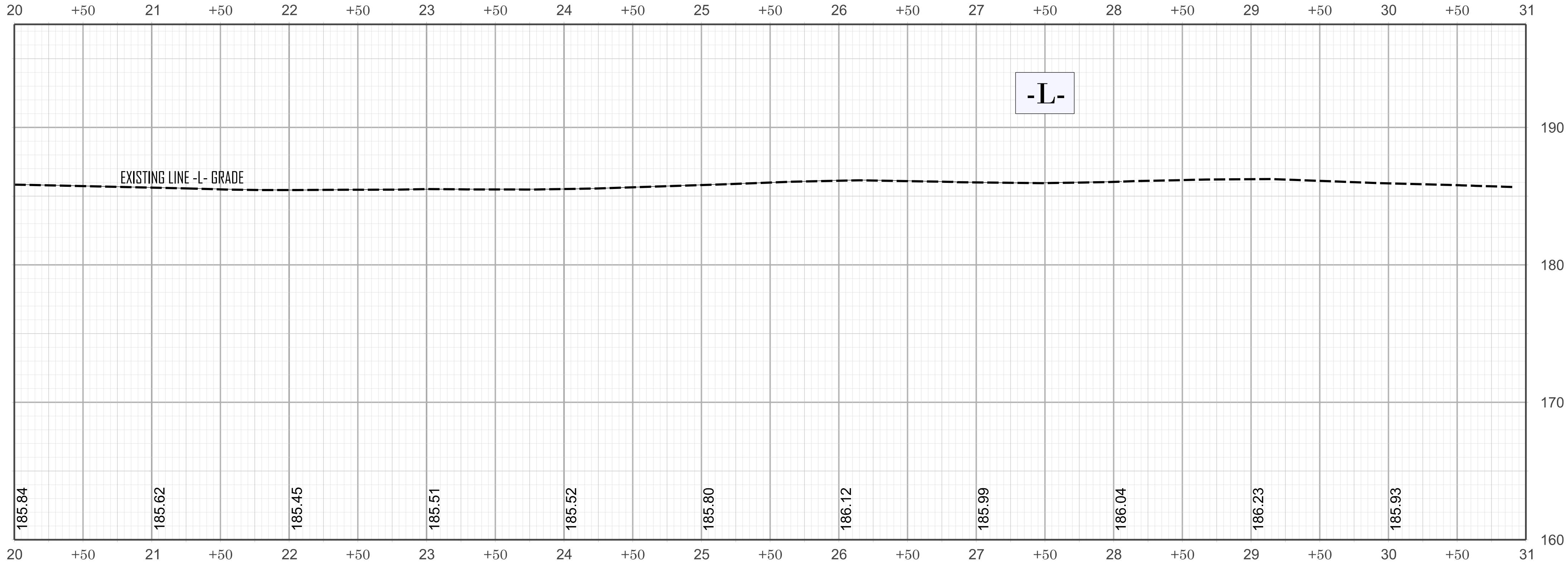
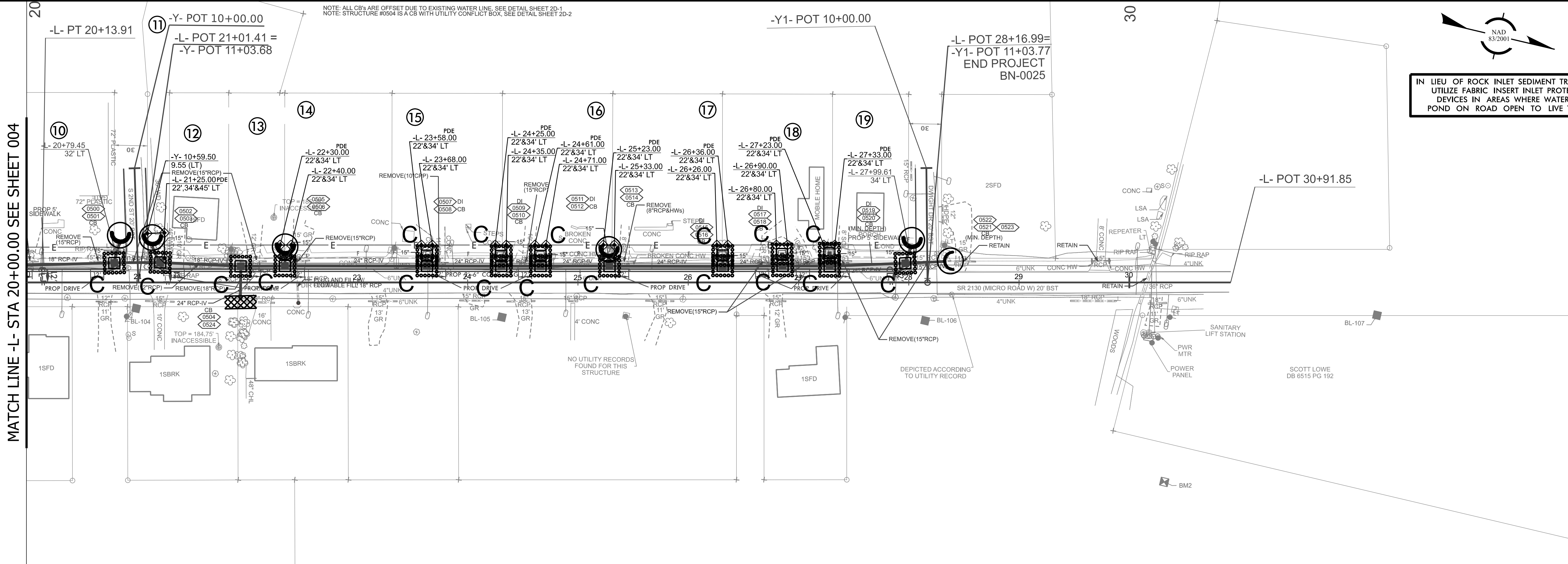
SOIL STABILIZATION TIMEFRAMES

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

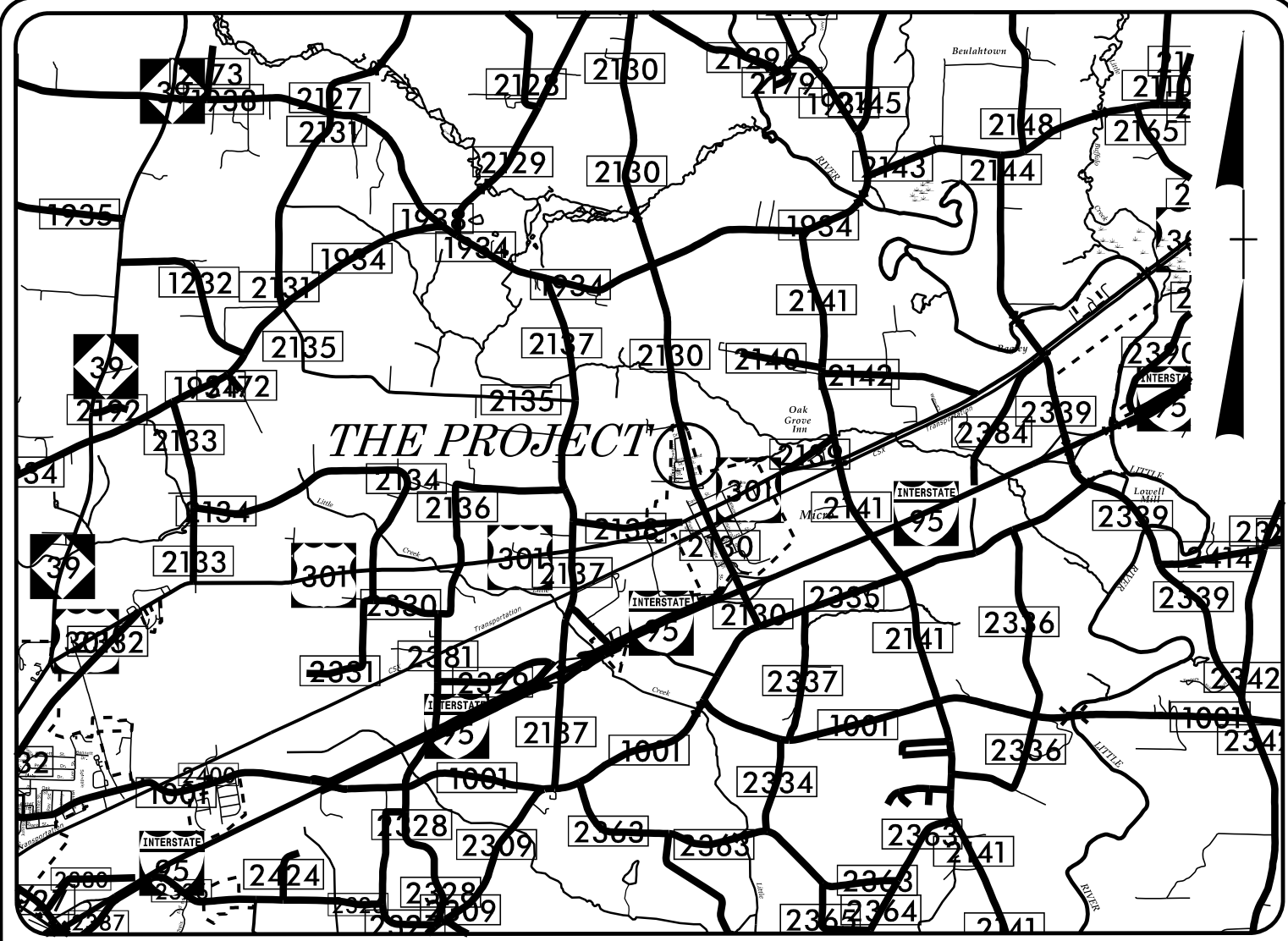








TIP PROJECT: BN-0025



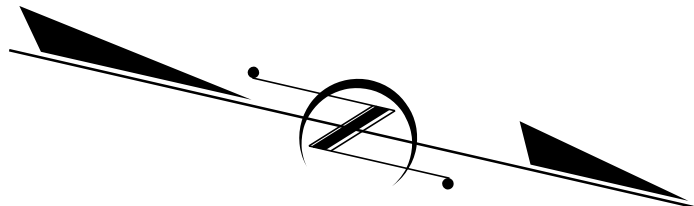
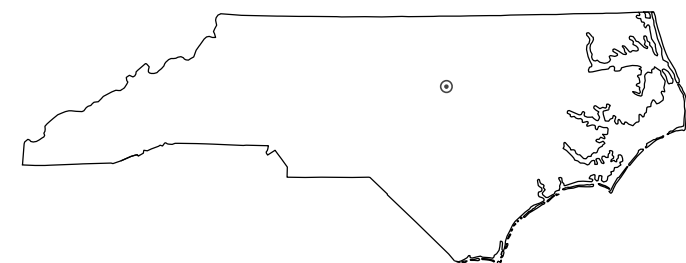
VICINITY MAP

NOT TO SCALE

-L- POC 12+20.00
BEGIN PROJECT
BN-0025

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BN-0025	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

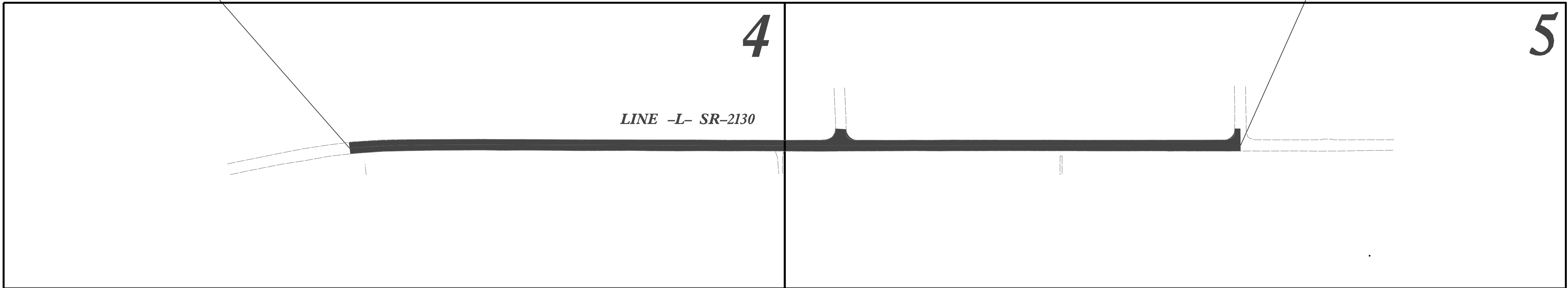
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY



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

LOCATION: SR 2130 (WEST MAIN STREET) FROM SOUTH OF FAYETTEVILLE STREET TO DWIGHT DRIVE IN MICRO. CONSTRUCT SIDEWALK
TYPE OF WORK: GRADE, DRAINAGE & PAVEMENT

-L- POT 28+16.99 =
-YI- POT 11+03.77
END PROJECT
BN-0025



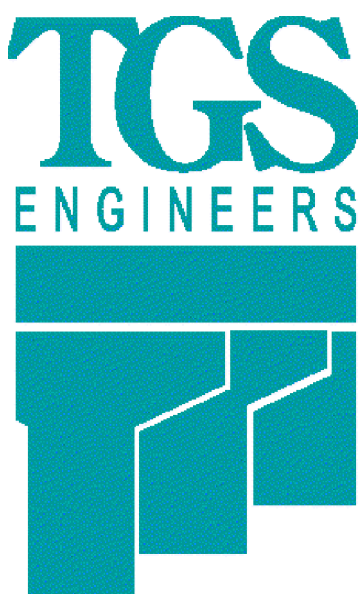
THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

GRAPHIC SCALE



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



Prepared In the Office of:
TGS ENGINEERS
706 HILLSBOROUGH ST
SUITE 200
RALEIGH, NC 27603

Designed by:

Ben Henegar, PE
NAME

3564

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

PROJ. REFERENCE NO.	SHEET NO.
BN-0025	X-1

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

CROSS SECTION INDEX
CROSS SECTION SUMMARY
LINE -L- (12+38.08 - 28+16.99)

X-1
X-1
X-2 THRU X-13

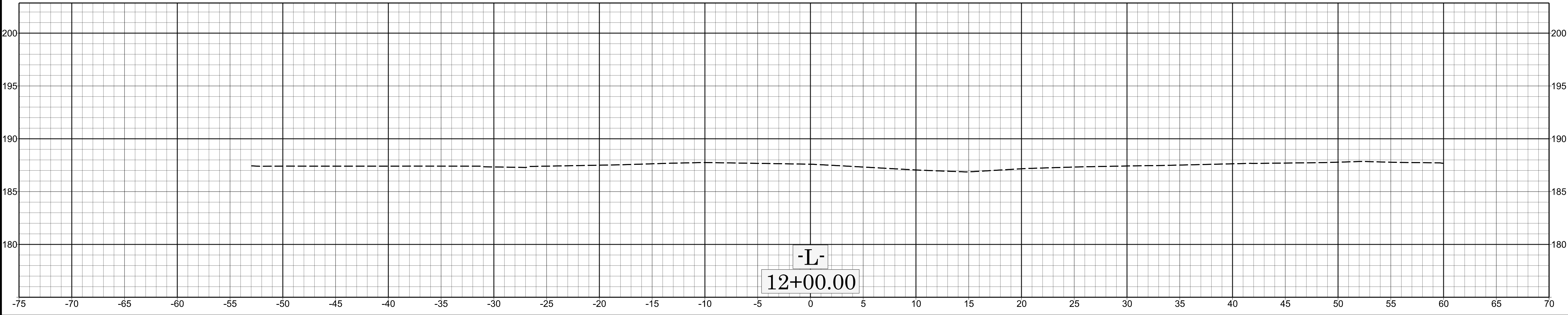
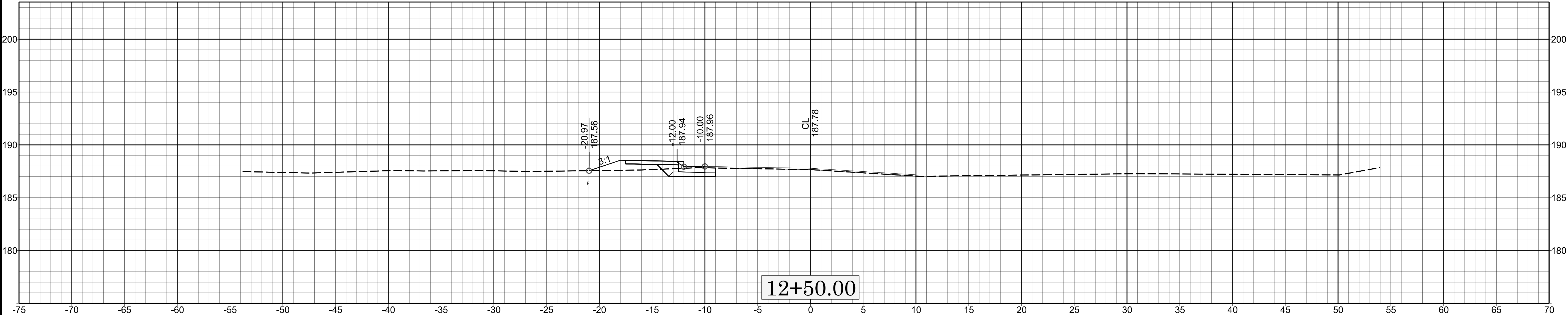
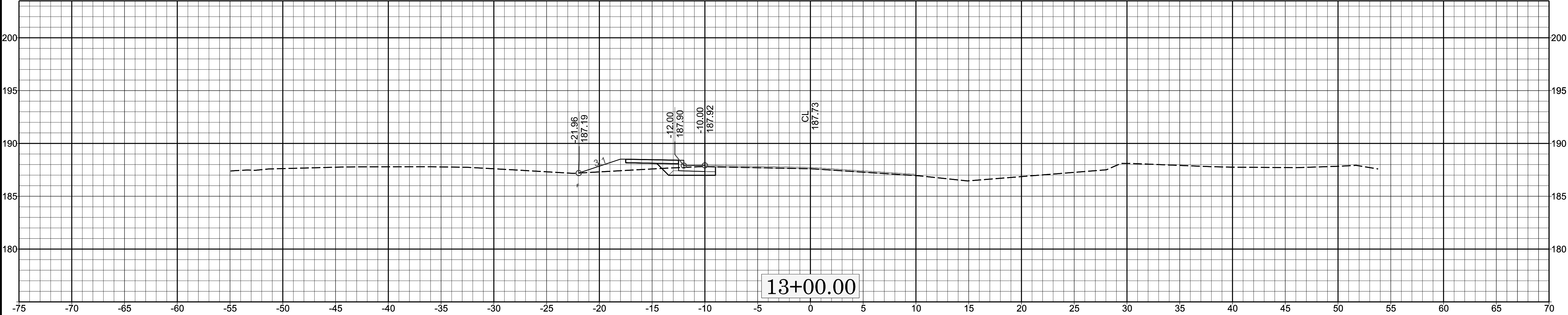
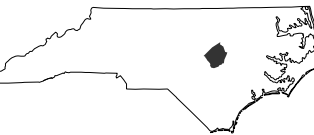
CROSS-SECTION SUMMARY

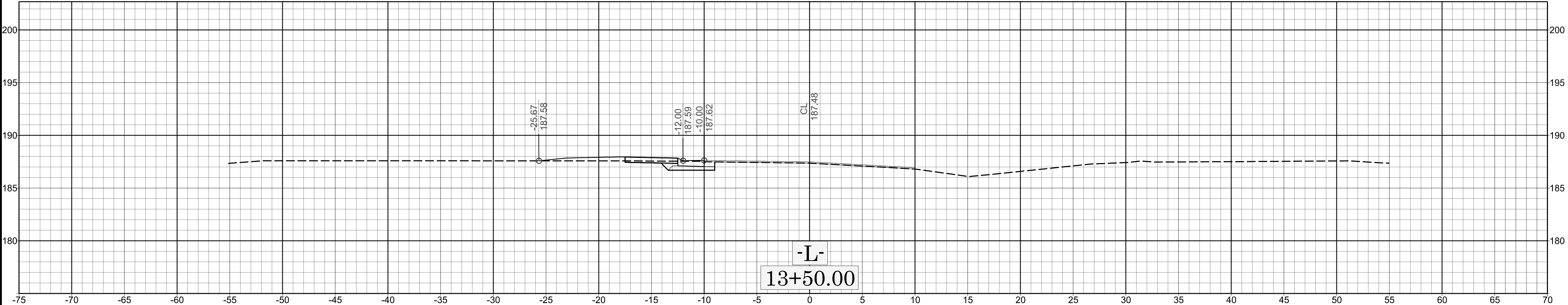
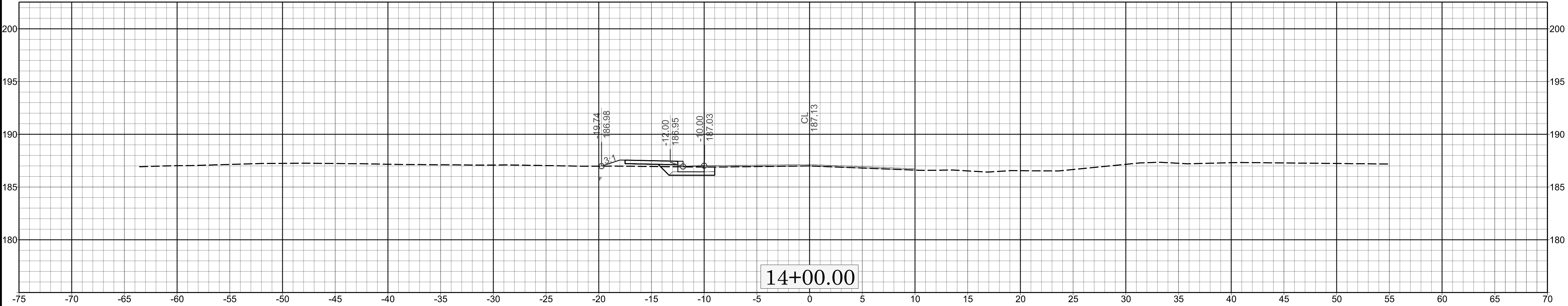
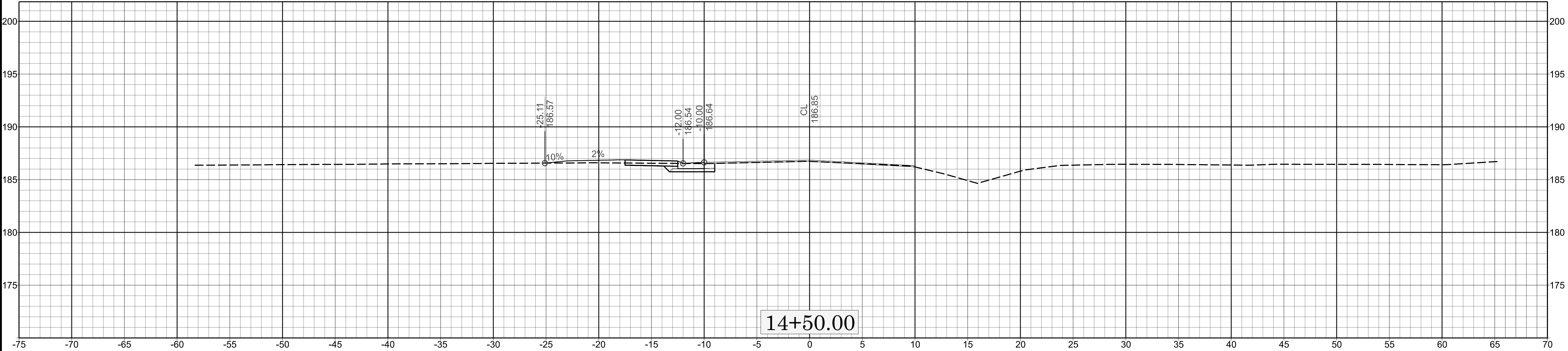
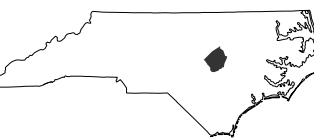
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L			
12+38.08			
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13+50.00	8	6	
14+00.00	8	3	
14+50.00	8	3	
15+00.00	8	4	
15+50.00	7	6	
16+00.00	6	13	
16+50.00	5	19	
17+00.00	5	20	
17+50.00	5	21	
18+00.00	6	13	
18+50.00	8	5	
19+00.00	7	10	
19+50.00	6	16	
20+00.00	8	9	
20+50.00	7	12	
21+00.00	3	12	
21+50.00	4	1	
22+00.00	9	2	
22+50.00	8	6	
23+00.00	7	17	
23+50.00	6	23	
24+00.00	6	21	
24+50.00	7	12	
25+00.00	7	12	
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27+50.00	7	14	

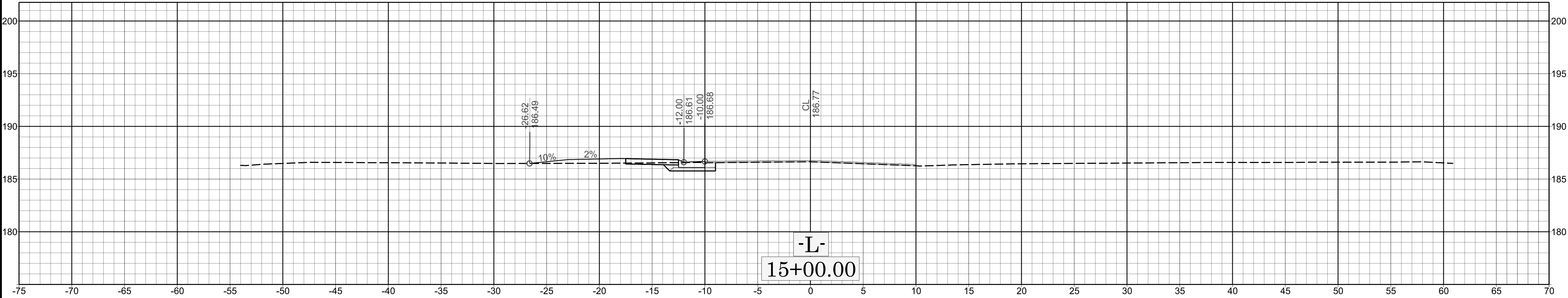
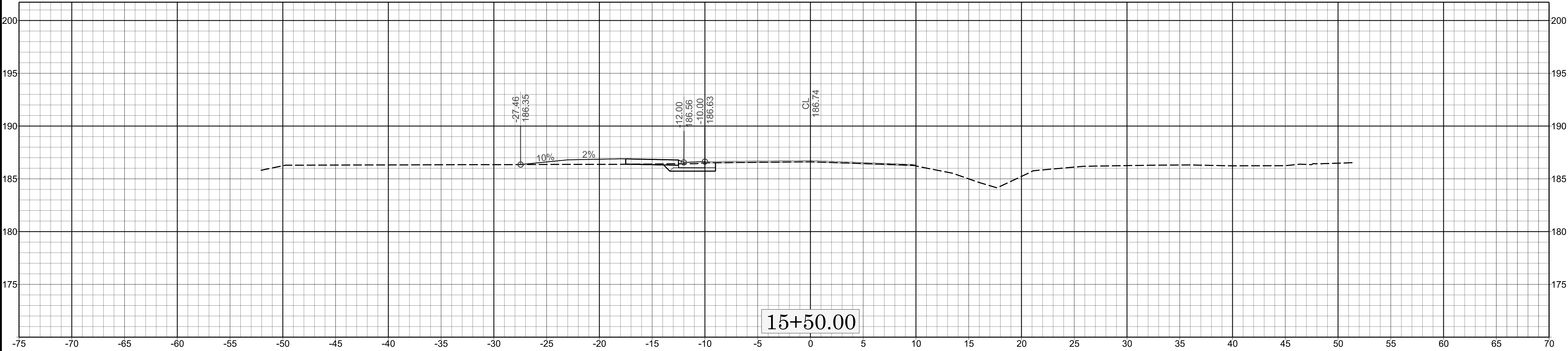
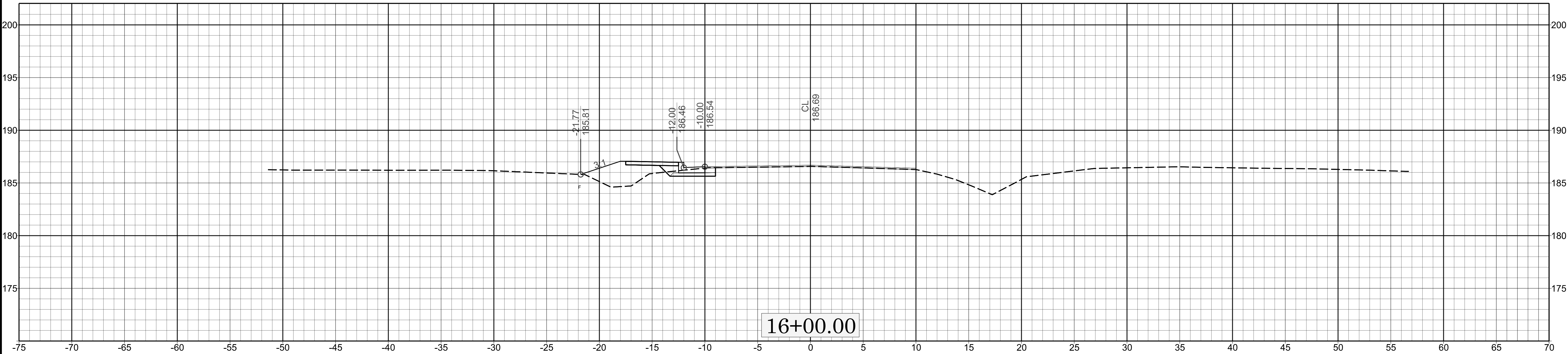
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L			
28+00.00	4	22	
28+16.99		8	

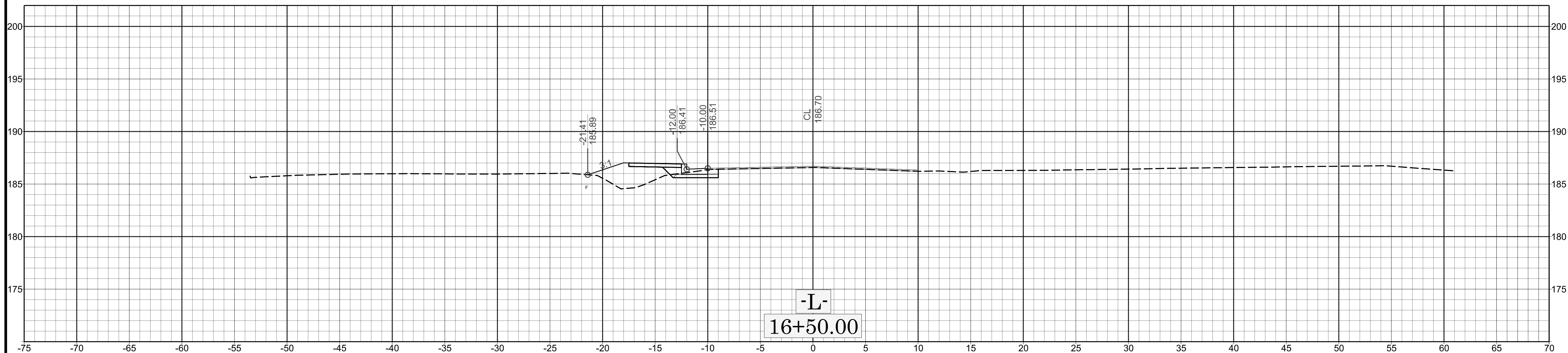
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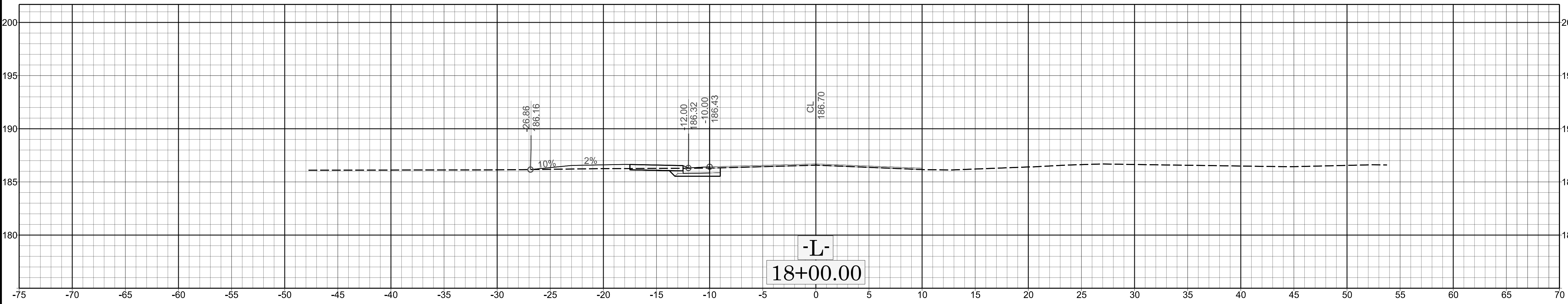
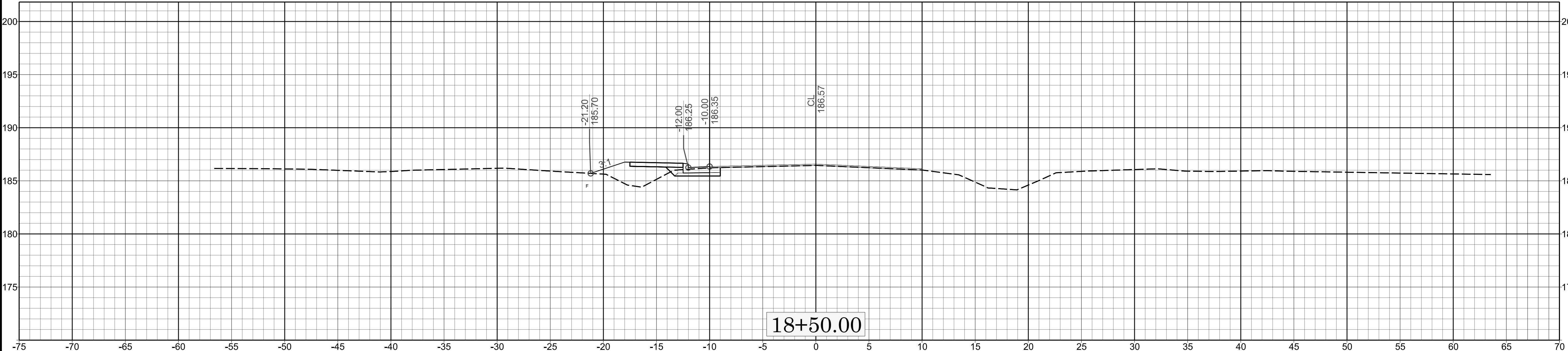
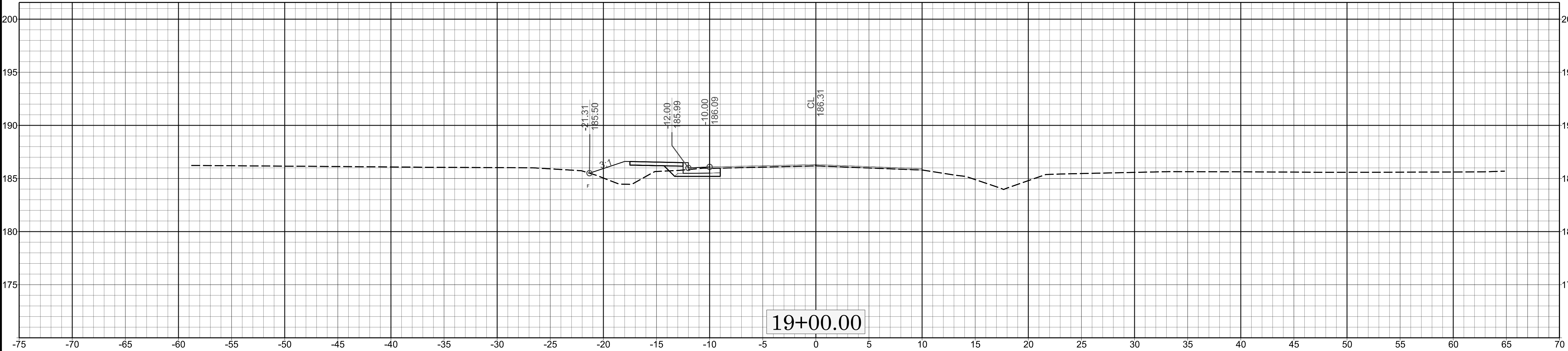
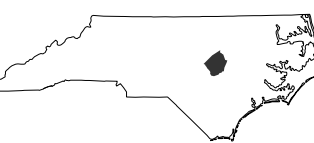
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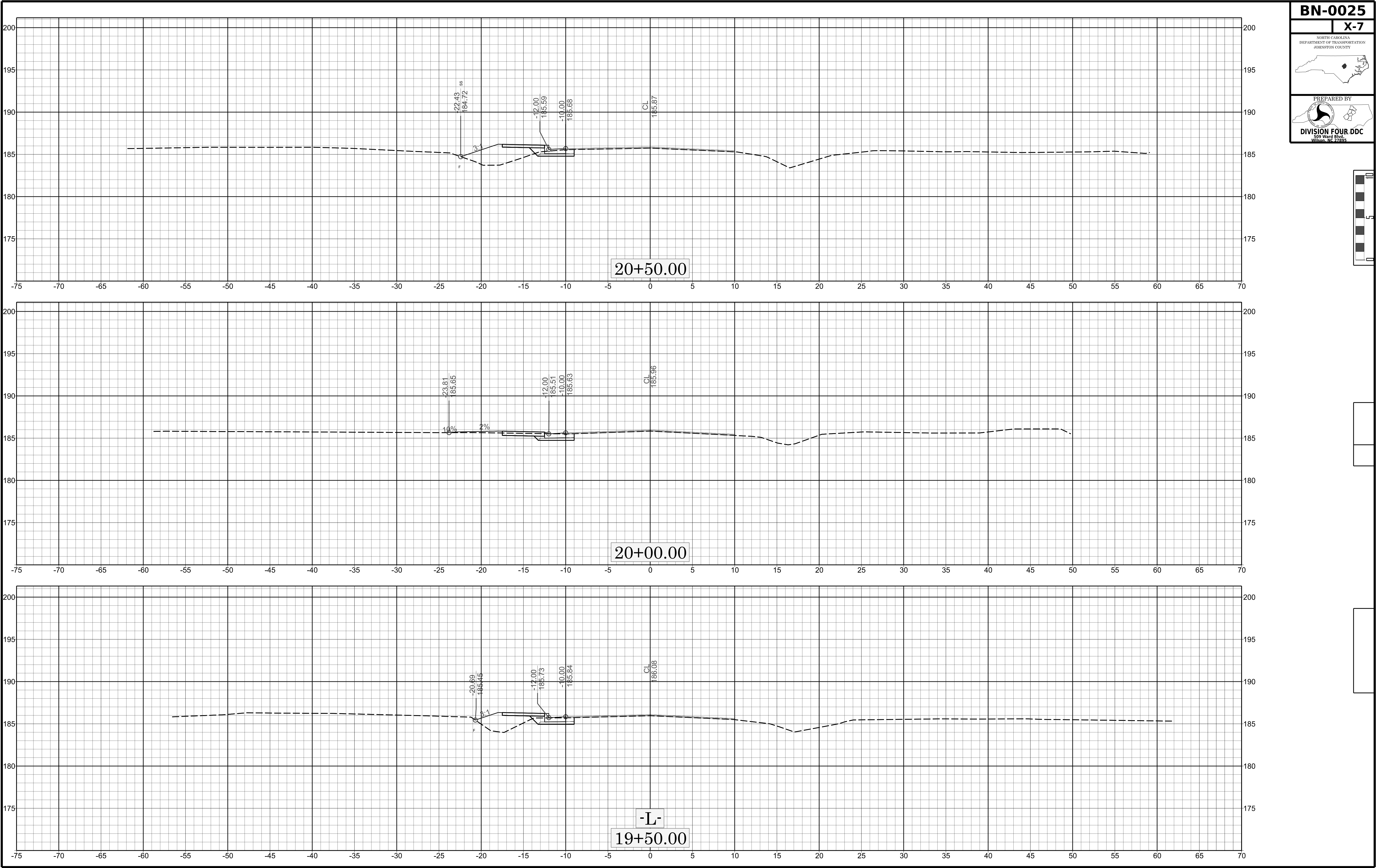








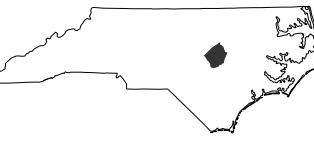




BN-0025

X-7

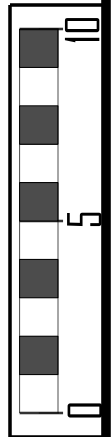
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JOHNSTON COUNTY

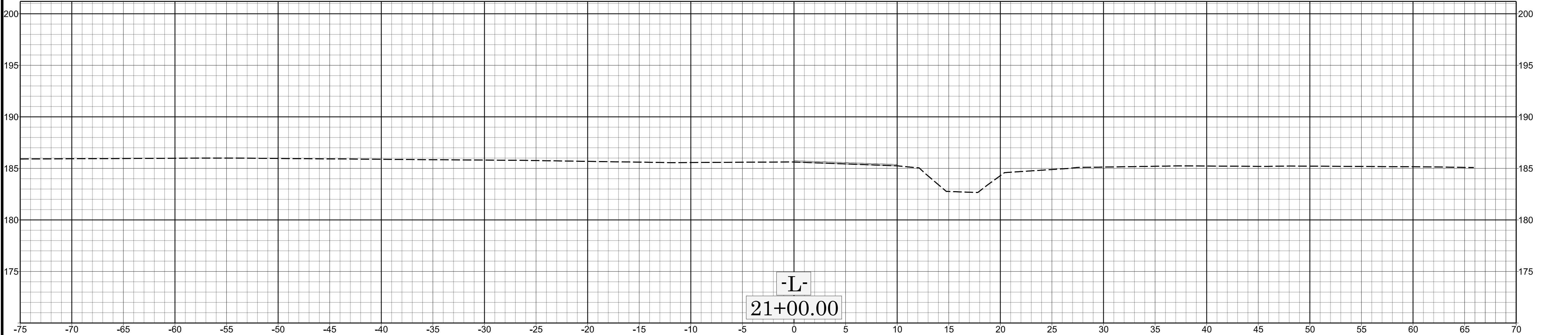
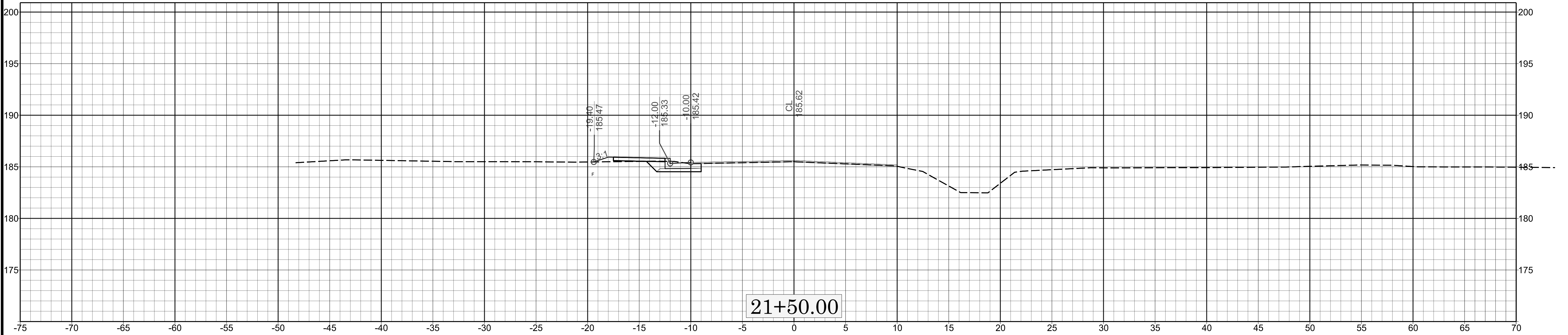
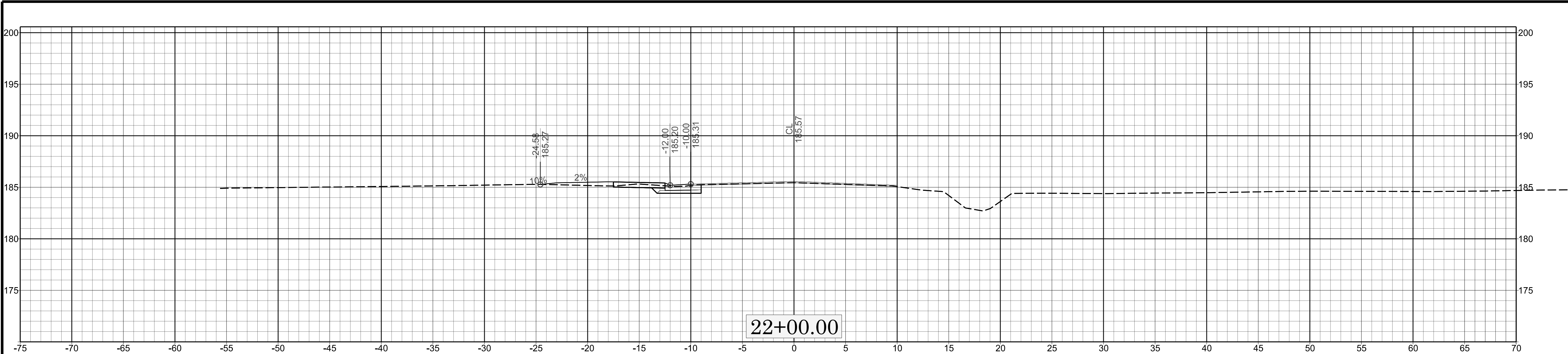


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X-8

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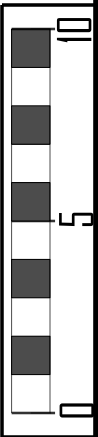
JOHNSTON COUNTY

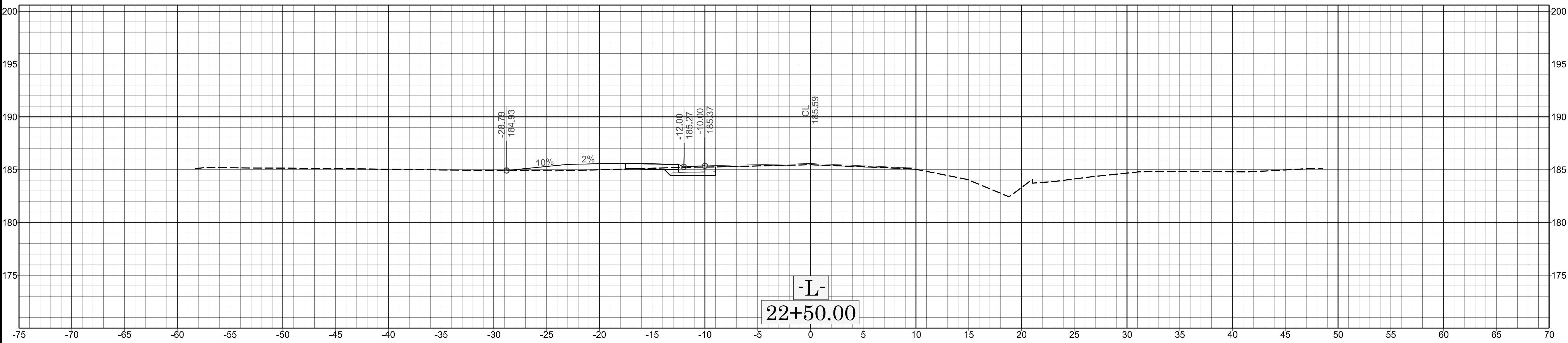
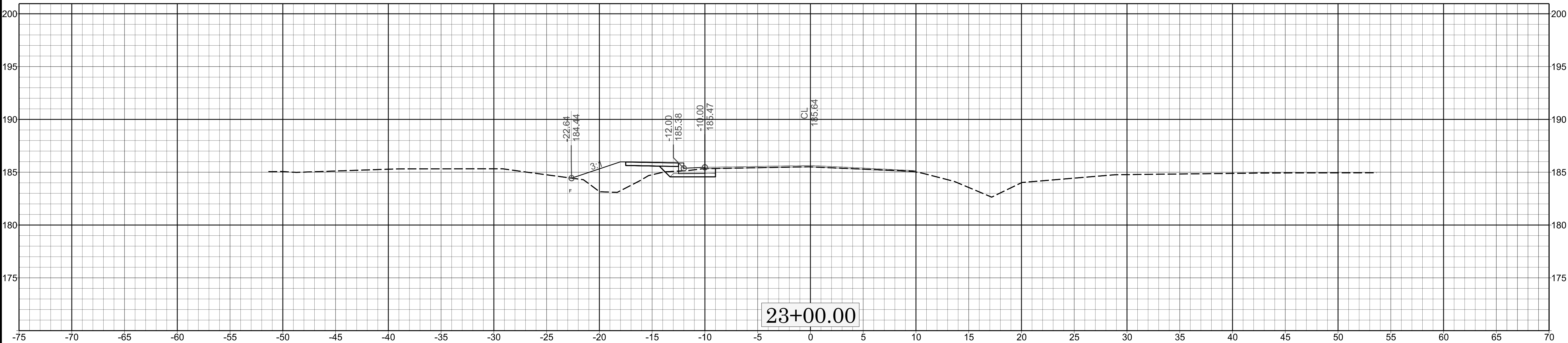
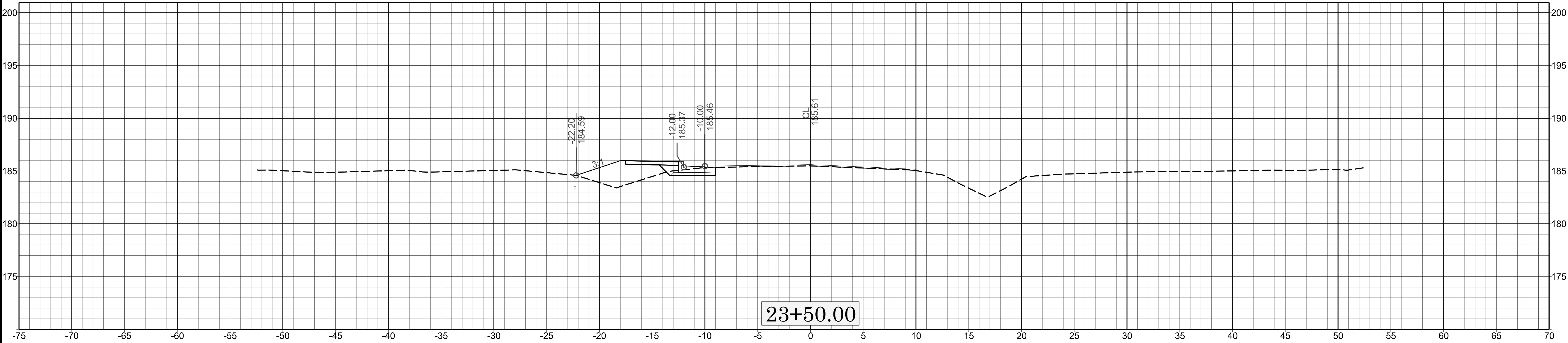
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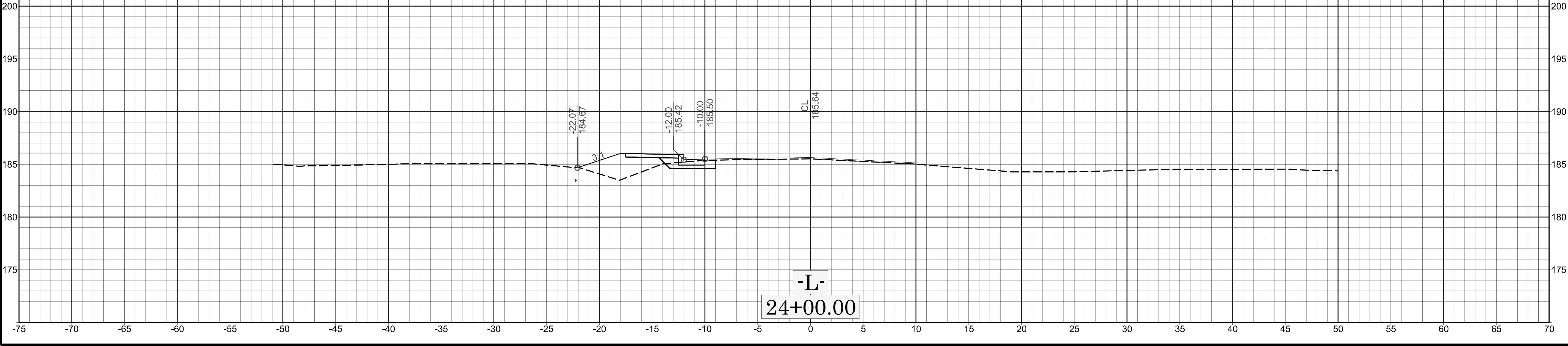
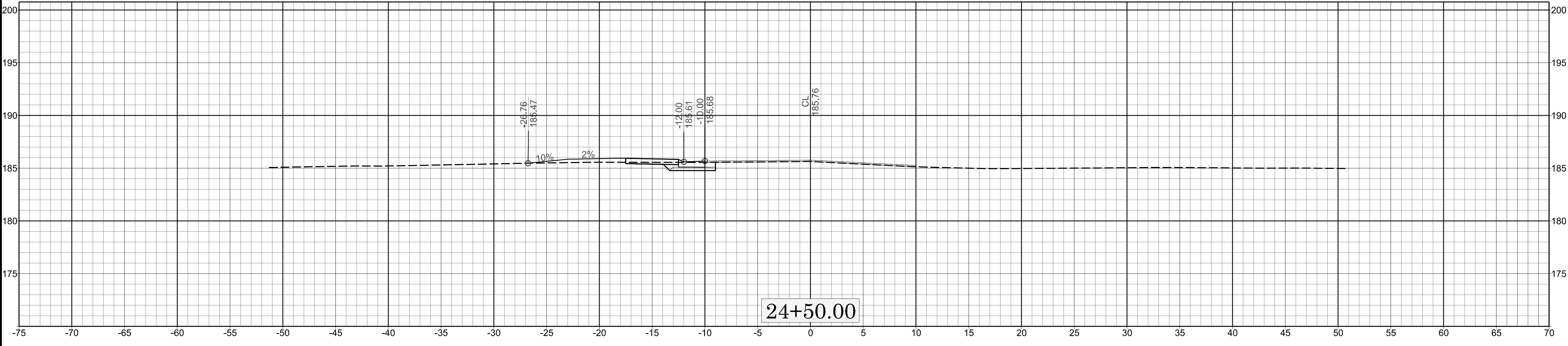
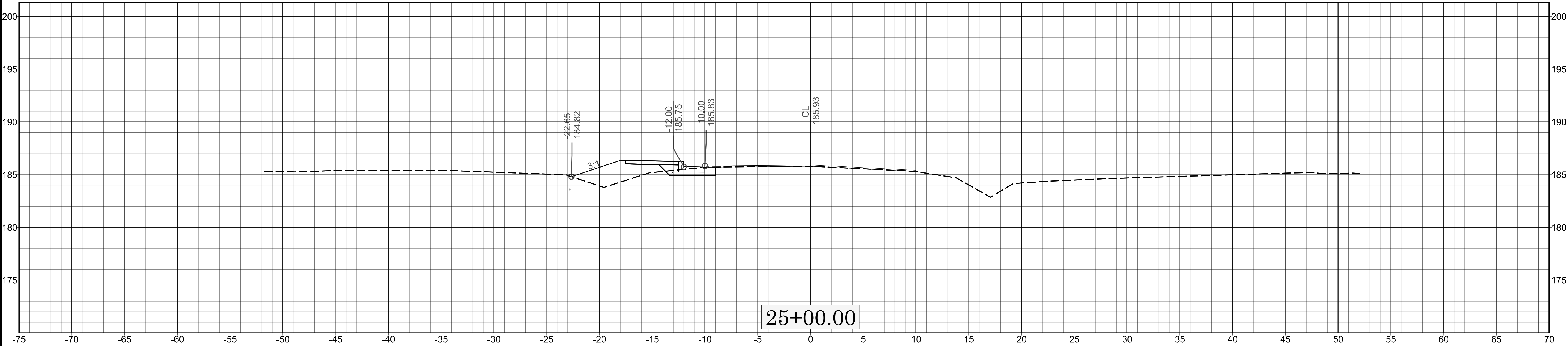
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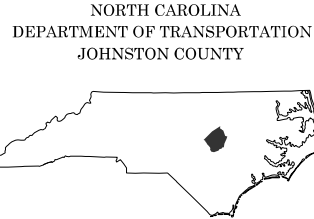






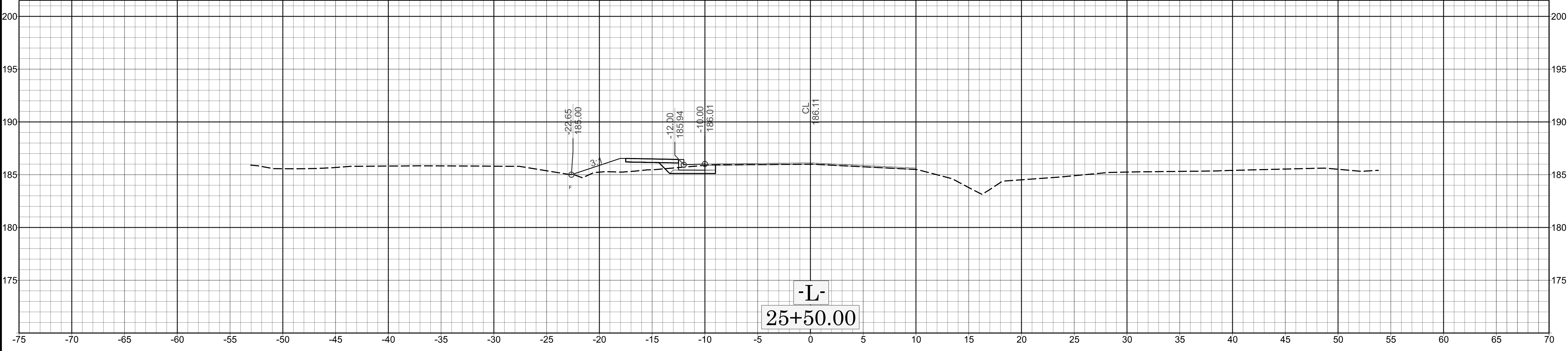
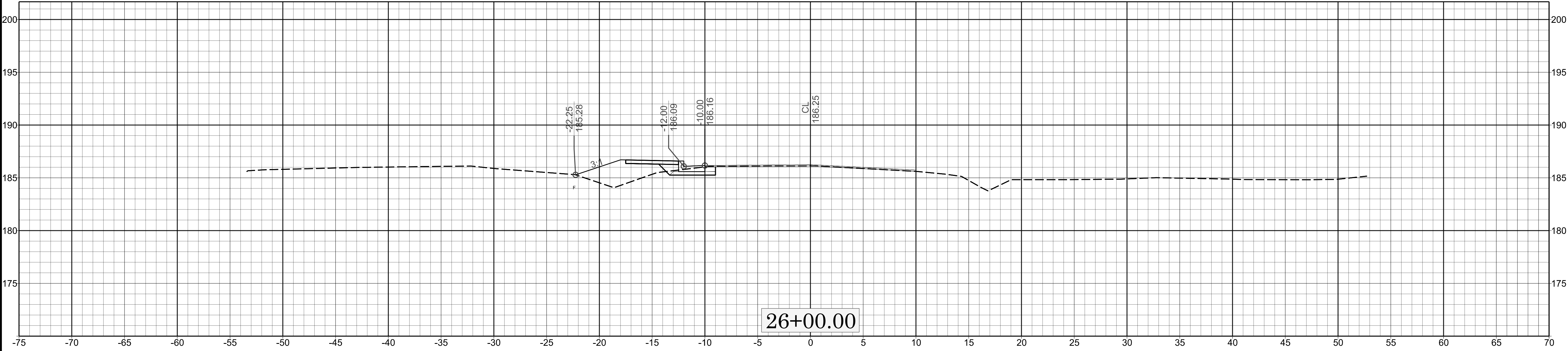
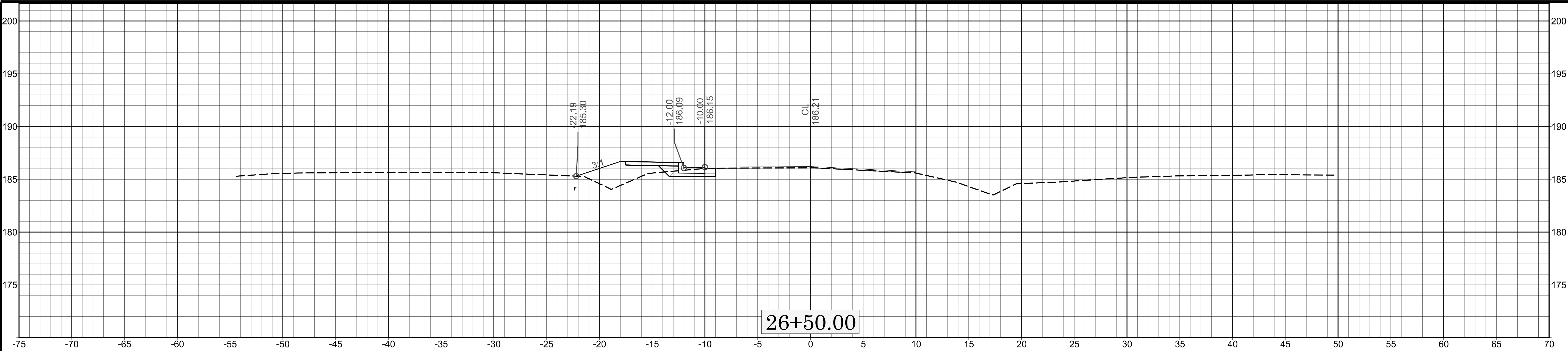
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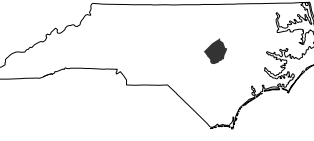




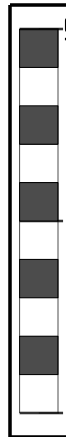
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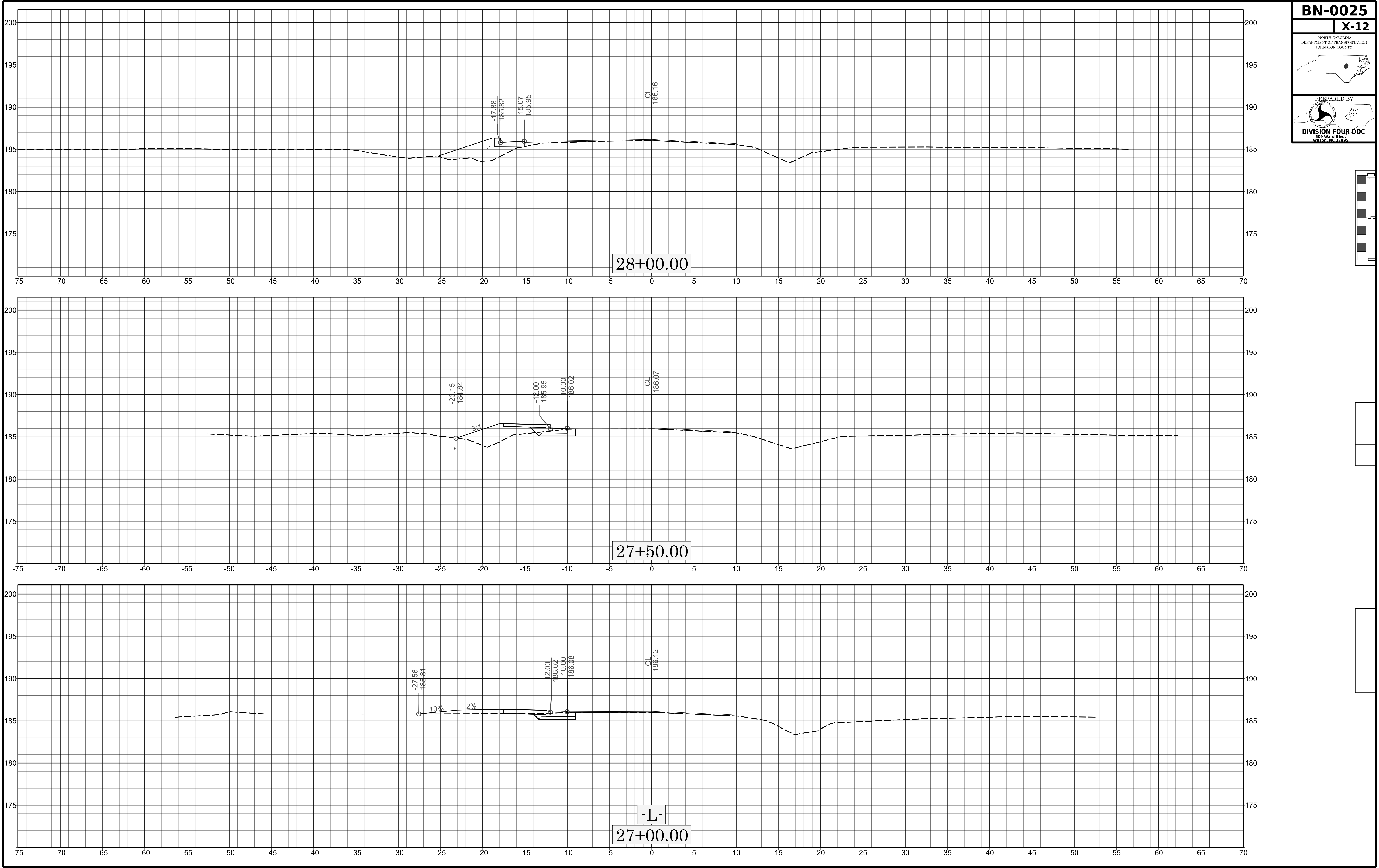
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JOHNSTON COUNTY



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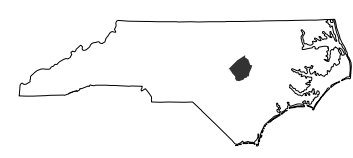




BN-0025

X-12

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JOHNSTON COUNTY



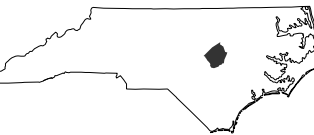
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