

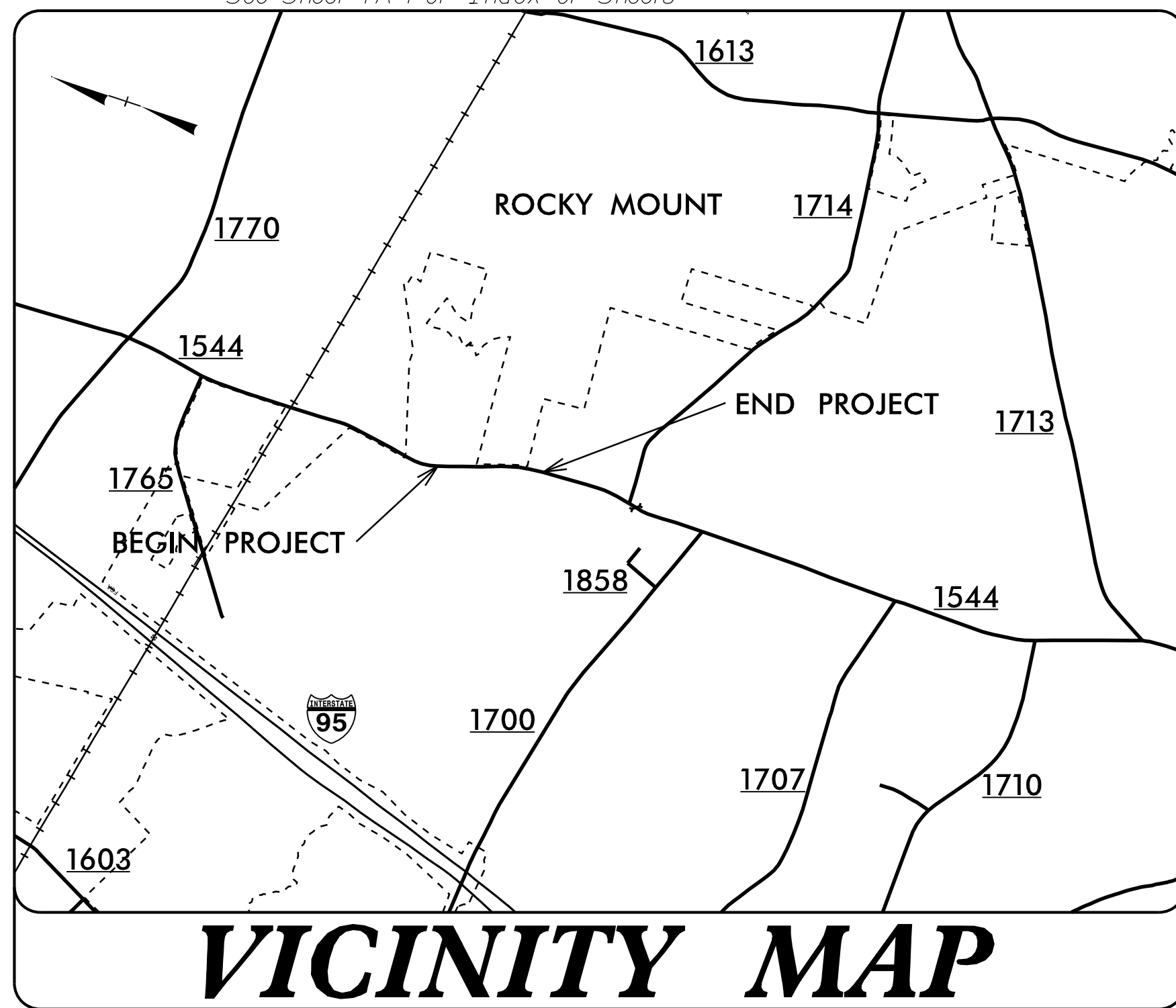
09/08/24

18-SEP-2024 10:09
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Division 4 DDC

TIP PROJECT: 80071

CONTRACT: DD00454

See Sheet 1A For Index of Sheets



VICINITY MAP

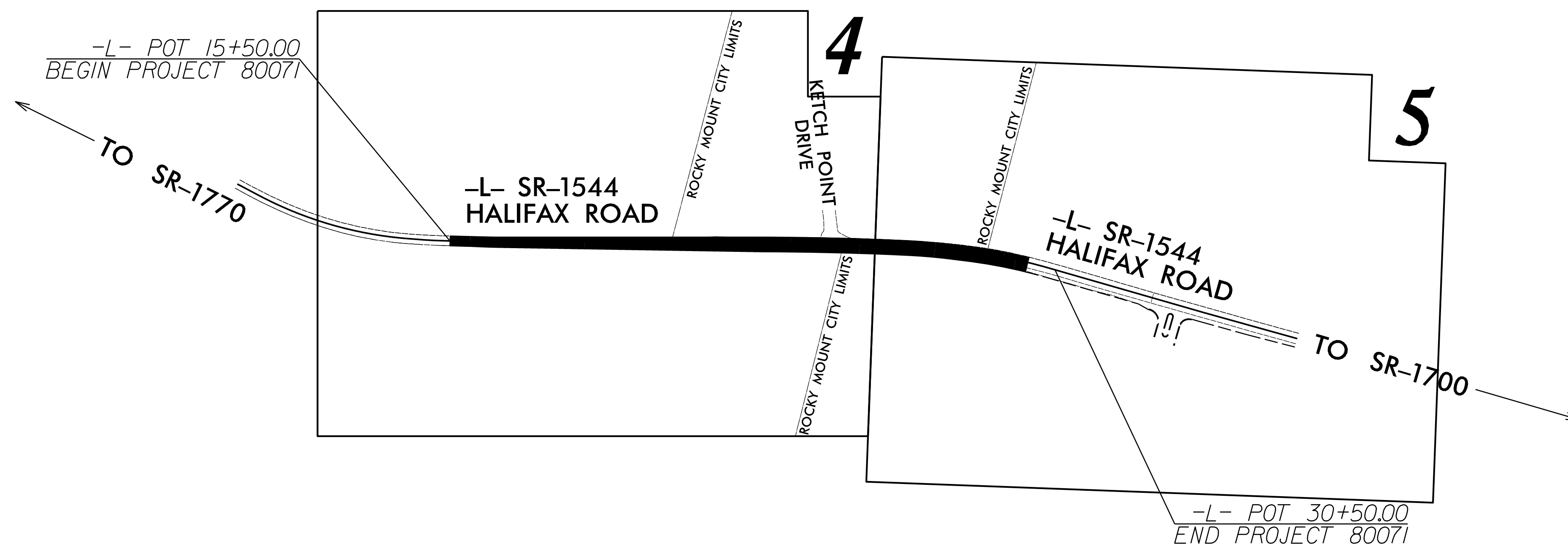
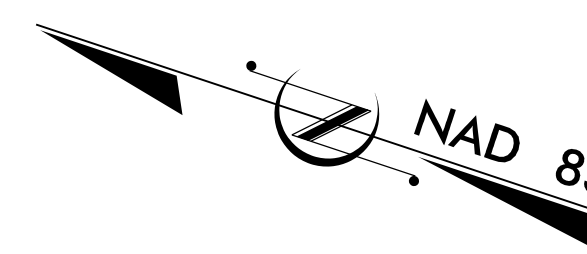
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NASH COUNTY

LOCATION: SR 1544 (HALIFAX ROAD) AT KETCH POINT SUBDIVISION.

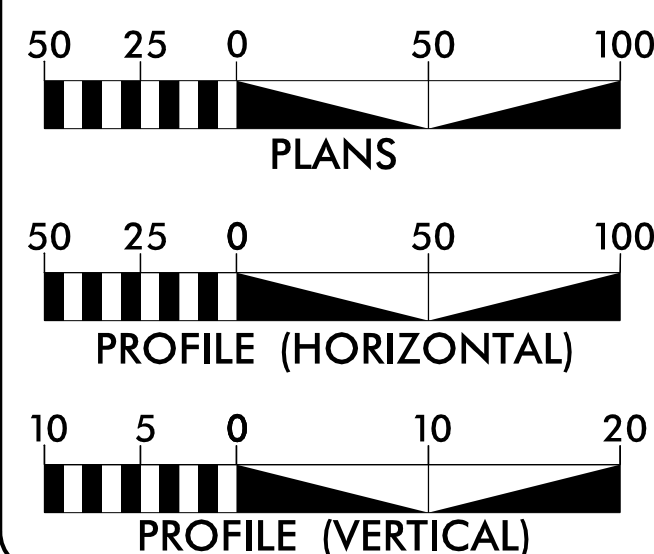
TYPE OF WORK: GRADING, DRAINAGE, PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	80071	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
80071		PE	
80071		RW & UTILITIES	
80071		CONST	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2016 = 8900
 V = 60 MPH
 FUNC CLASS =
 MINOR ARTERIAL
 SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT 80071 = 0.271 MI
 TOTAL LENGTH TIP PROJECT 80071 = 0.271 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
 Division 4 DDC
 509 Ward Blvd., Wilson, NC 27895

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 AUGUST 3, 2023

LETTING DATE:
 OCTOBER 22, 2024

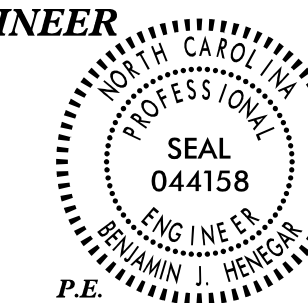
KEITH EASON, PE
 PROJECT ENGINEER

N.A. GAINEY, PE
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

09/18/2024

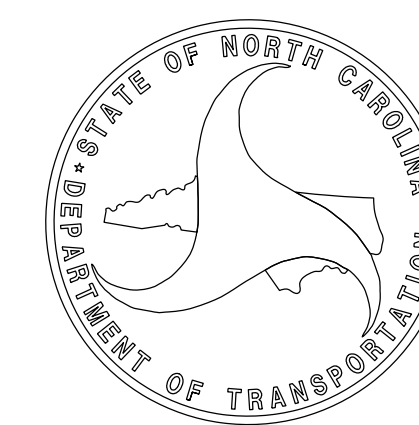
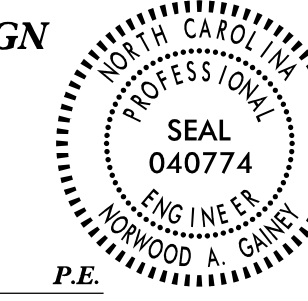
Signed by:
 Benjamin J. Henegar
 SIGNATURE:



ROADWAY DESIGN ENGINEER

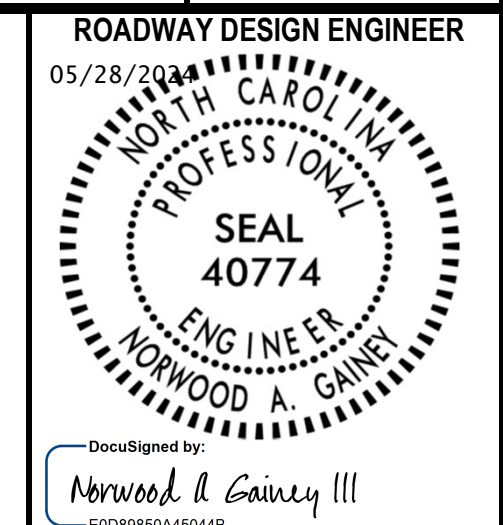
09/18/2024

Signed by:
 Norwood A. Gaaney III
 SIGNATURE:



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJ. REFERENCE NO. 80071	SHEET NO. 1-A
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2024 ROADWAY ENGLISH STANDARD DRAWINGS

GENERAL NOTES: 2024 SPECIFICATIONS

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES: LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER) SUMMARY OF EARTHWORK PARCEL INDEX SUMMARY OF INCIDENTAL MILLING SUMMARY OF RIP RAP, GEOTEXTILE FOR DRAINAGE & DDE
4 THRU 5	PLAN SHEETS
6	PROFILE SHEET
RW-1 THRU RW-5	SURVEY CONTROL, EXISTING CENTERLINES RIGHT OF WAY, EASEMENTS AND PROPERTY TIES
PMP-1 THRU PMP-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UBO-1 THRU UBO-3	UTILITIES BY OTHERS PLANS
X-1	CROSS-SECTION INDEX & CROSS-SECTION SUMMARY
X-2 THRU X-10	CROSS-SECTIONS

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 2 - EARTHWORK
 - 200.03 METHOD OF CLEARING - METHOD III
 - 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
 - 225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
 - 225.06 METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS
- DIVISION 3 - PIPE CULVERTS
 - 300.01 METHOD OF PIPE INSTALLATION
 - 310.10 DRIVEWAY PIPE CONSTRUCTION
- DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
 - 560.01 METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I
- DIVISION 6 - ASPHALT BASES AND PAVEMENTS
 - 654.01 PAVEMENT REPAIRS
- DIVISION 8 - INCIDENTALS
 - 838.01 CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS - 15" THRU 48" PIPE 90 SKEW
 - 838.11 BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS - 15" THRU 48" PIPE 90 SKEW
 - 840.71 CONCRETE AND BRICK PIPE PLUG
 - 840.72 PIPE COLLAR
 - 848.04 STREET TURNOUT
 - 876.04 DRAINAGE DITCHES WITH CLASS 'B' RIP RAP

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.

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.

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:
 CITY OF ROCKY MOUNT (GAS), CITY OF ROCKY MOUNT (POWER),
 CITY OF ROCKY MOUNT (WATER&SEWER), OPTIMUM AND BRIGHTSPEED.

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

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

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

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
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	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

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 RW Marker	-----
New Control of Access Line with Concrete CA Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
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	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

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

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	○
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

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

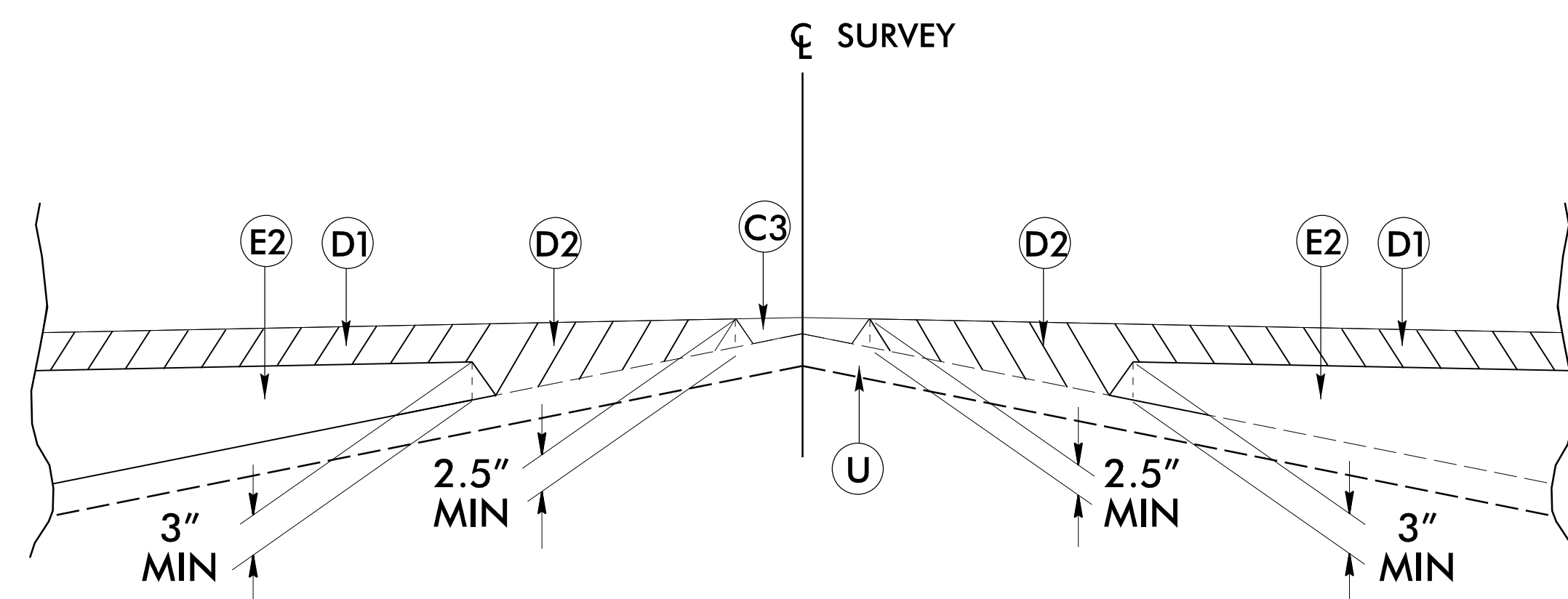
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Division 4 DDC

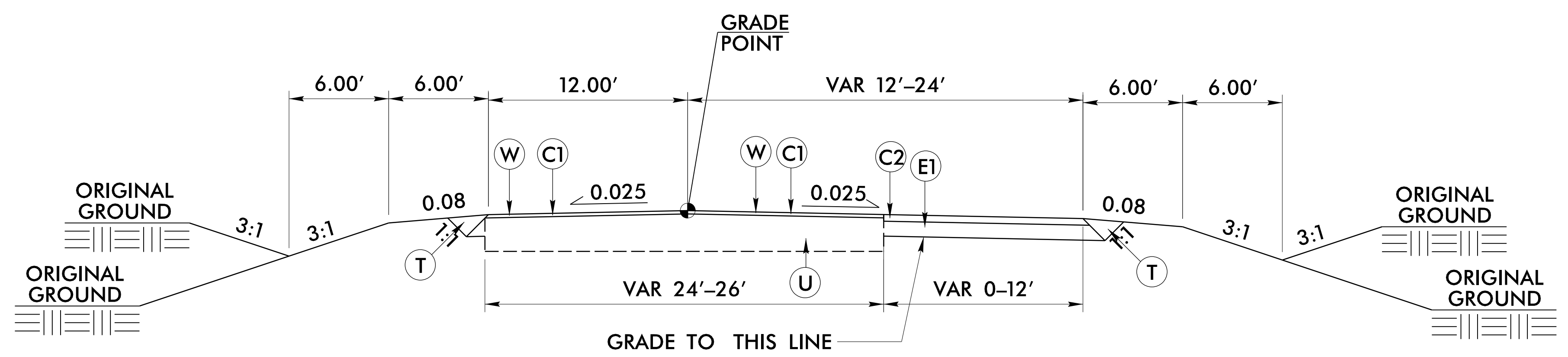
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD 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. YARD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YARD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.
U	EXISTING PAVEMENT
T	EARTH MATERIAL
W	WEDGING (SEE DETAIL)

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

PROJECT REFERENCE NO. 80071	SHEET NO. 2A
ROADWAY DESIGN ENGINEER 09/18/2024 NORWOOD A. GAINES III SEAL 040774 ENGINEER	PAVEMENT DESIGN ENGINEER 09/18/2024 NORWOOD A. GAINES III SEAL 040774 ENGINEER
SIGNED BY: <i>Norwood A. Gaines III</i>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



Detail Showing Method of Wedging



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1
-L- STA. 15+50.00 TO STA. 29+81.50

USE INCIDENTAL MILLING
-L- 15+50 TO 17+25 CL
-L- 17+75 TO 18+25 RT
-L- 18+75 TO 21+25 RT
-L- 22+75 TO 23+25 LT
-L- 25+75 TO 26+75 CL
-L- 28+75 TO 29+81.50 CL

NOTE: -L- STA. STA. 29+81.50 TO 30+50.00 WIDEN RIGHT SIDE TO MATCH EXISTING WIDTH.

PROJECT REFERENCE NO.	SHEET NO.
80071	04
RDW SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
04/26/2024	04/26/2024
SEAL 040774	SEAL 044158
WOODWARD GAINY III	BENJAMIN J. HENEGAR
WOODWARD GAINY III	BENJAMIN J. HENEGAR
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

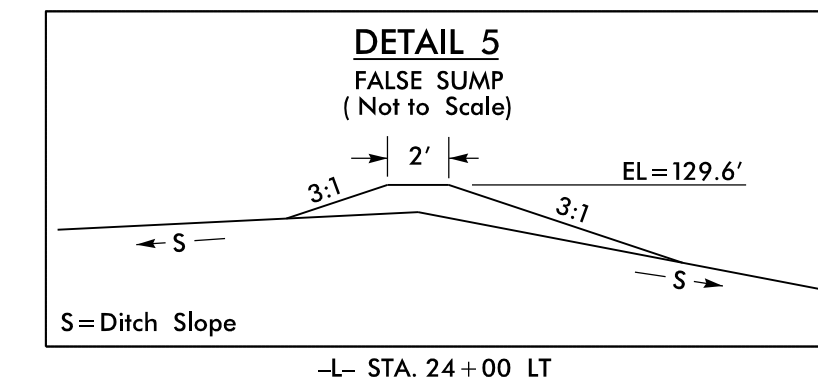
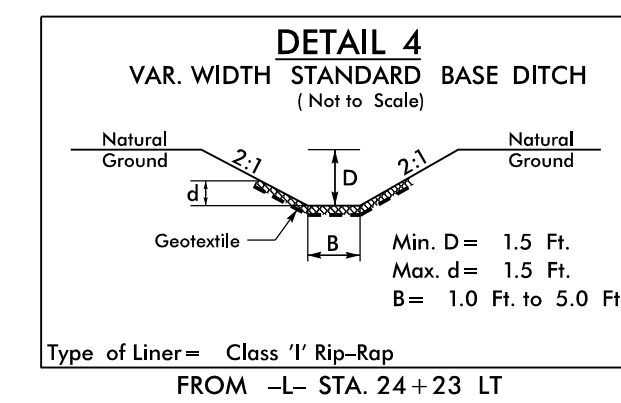
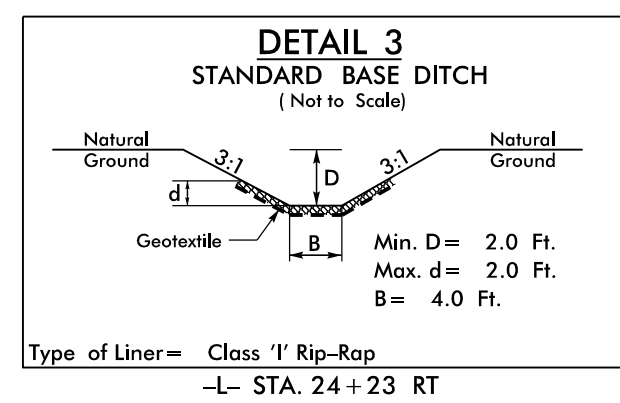
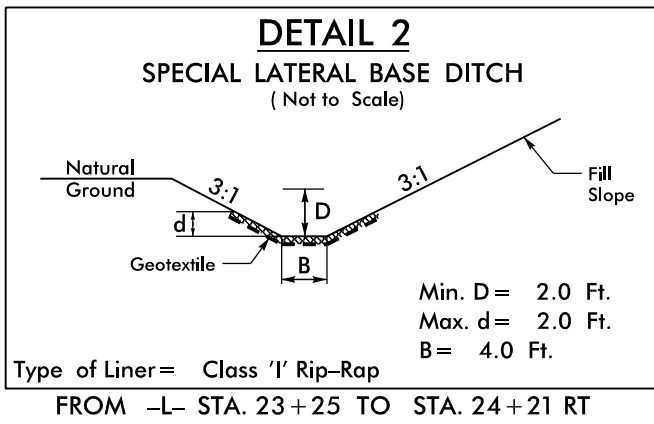
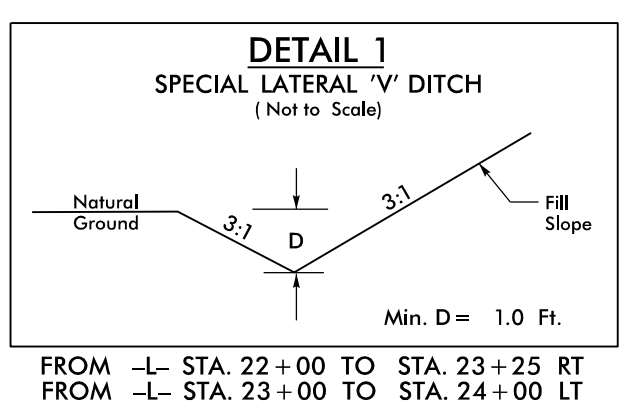
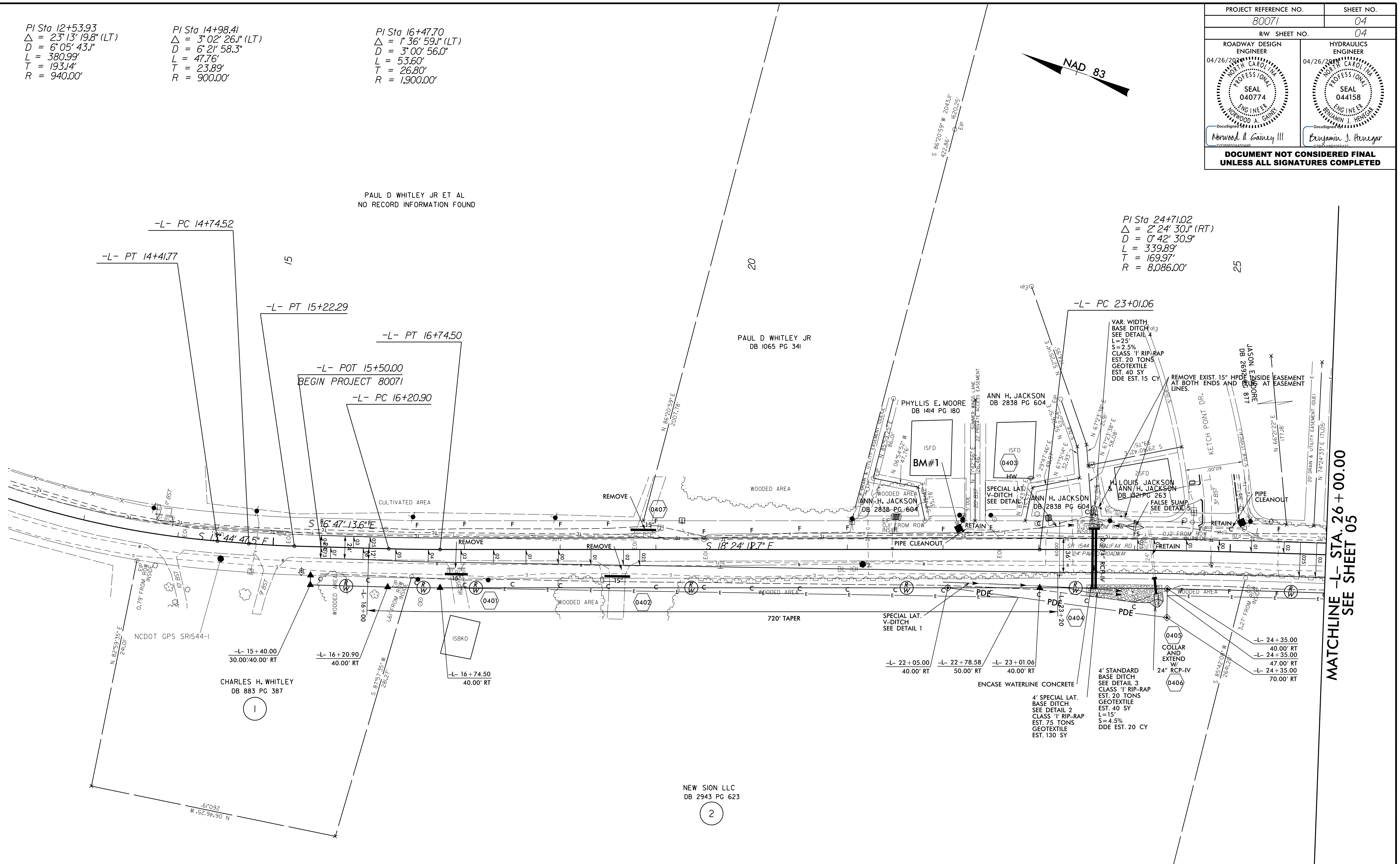
PI Sta 12+53.93
 $\Delta = 23^{\circ}13'19.8"$ (LT)
 $D = 6^{\circ}05'43.1"$
 $L = 380.99'$
 $T = 193.14'$
 $R = 940.00'$

PI Sta 14+98.41
 $\Delta = 3^{\circ}02'26.1"$ (LT)
 $D = 6^{\circ}21'58.3"$
 $L = 47.76'$
 $T = 23.89'$
 $R = 900.00'$

PI Sta 16+47.70
 $\Delta = 1^{\circ}36'59.1"$ (LT)
 $D = 3^{\circ}00'56.0"$
 $L = 53.60'$
 $T = 26.80'$
 $R = 1,900.00'$

PI Sta 24+71.02
 $\Delta = 2^{\circ}24'30.1"$ (RT)
 $D = 0^{\circ}42'30.9"$
 $L = 339.89'$
 $T = 169.97'$
 $R = 8,086.00'$

8/17/99
 REVISIONS
 23-APR-2024 14:00
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 Division 4



MATCHLINE -L- STA. 26+00.00
 SEE SHEET 05

PROJECT REFERENCE NO.	SHEET NO.
80071	05
RW SHEET NO.	05
ROADWAY DESIGN ENGINEER 09/18/2024 NORTH CAROLINA PROFESSIONAL SEAL 040774 NOWOOD & GAINY	HYDRAULICS ENGINEER 09/18/2024 NORTH CAROLINA PROFESSIONAL SEAL 044158 BENJAMIN J. HENNINGER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PI Sta 27+26.67
 $\Delta = 4^{\circ} 27' 15.2''$ (RT)
 $D = 3^{\circ} 54' 01.2''$
 $L = 114.20'$
 $T = 57.13'$
 $R = 1,469.00'$
 $SE = 08$

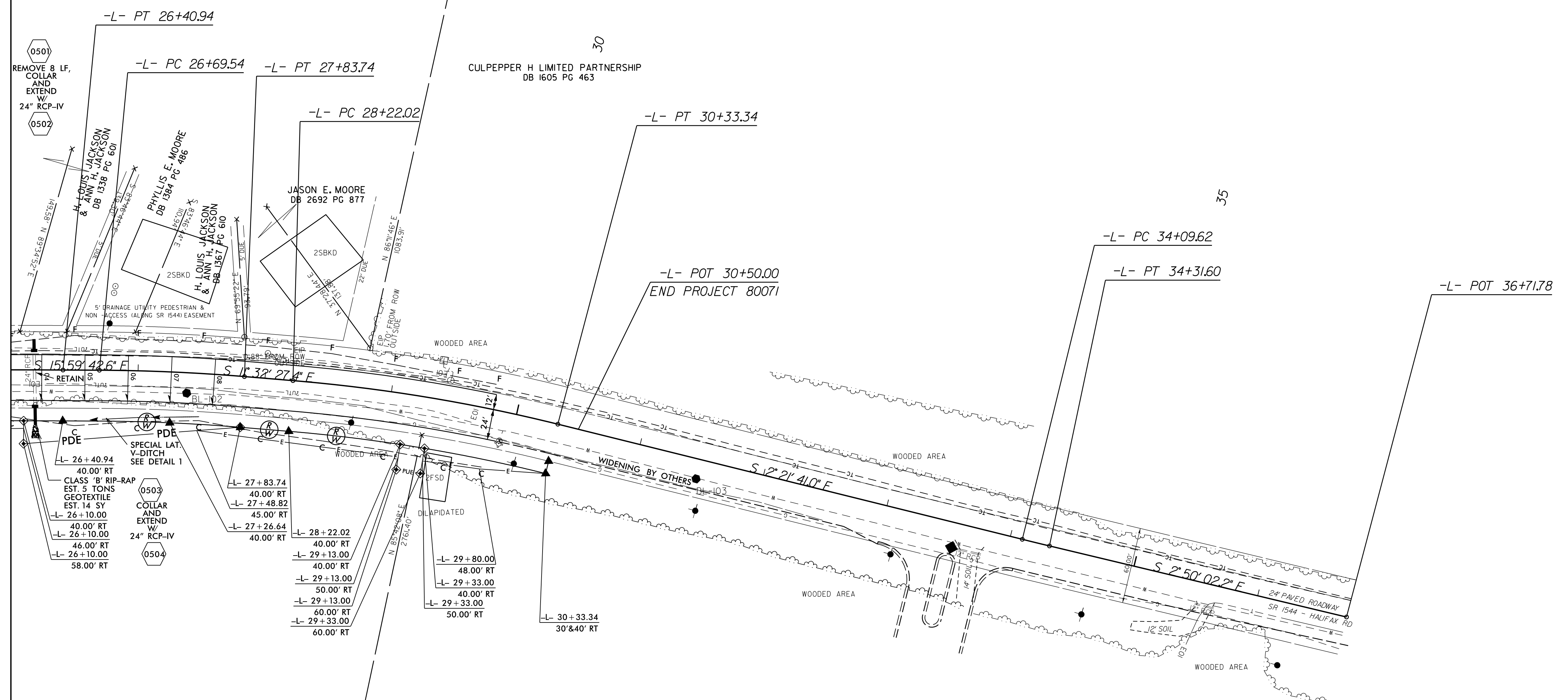
PI Sta 29+27.91
 $\Delta = 9^{\circ} 10' 46.5''$ (RT)
 $D = 4^{\circ} 20' 38.0''$
 $L = 211.32'$
 $T = 105.89'$
 $R = 1,319.00'$
 $SE = 08$

PI Sta 34+20.61
 $\Delta = 0^{\circ} 28' 21.3''$ (LT)
 $D = 2^{\circ} 08' 59.8''$
 $L = 219.8'$
 $T = 10.99'$
 $R = 2,665.00'$

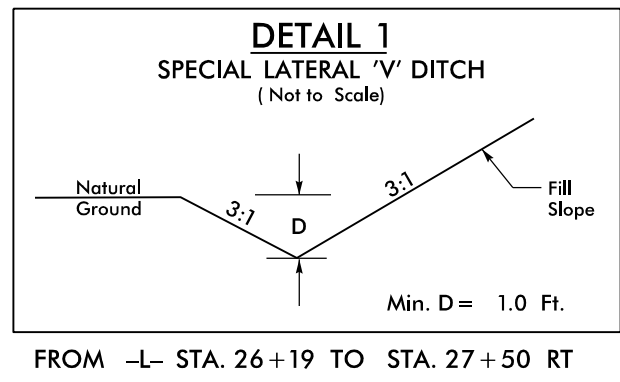


MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 04

REVISIONS



- L- 26+40.94
40.00' RT
CLASS 'B' RIP-RAP
EST. 5 TONS
GEOTEXTILE
EST. 14 SF
- L- 26+10.00
40.00' RT
- L- 26+10.00
46.00' RT
- L- 26+10.00
58.00' RT
- L- 27+83.74
40.00' RT
- L- 27+48.82
45.00' RT
- L- 27+26.64
40.00' RT
- L- 28+22.02
40.00' RT
- L- 29+13.00
40.00' RT
- L- 29+13.00
50.00' RT
- L- 29+13.00
60.00' RT
- L- 29+33.00
60.00' RT
- L- 29+80.00
48.00' RT
- L- 29+33.00
40.00' RT
- L- 29+33.00
50.00' RT
- L- 30+33.34
30'x40' RT



FROM -L- STA. 26+19 TO STA. 27+50 RT

DB 2162 PG 770-773
HODGE AND MORRIS LLC

HODGE AND MORRIS LLC
DB 2162 PG 770-773

3

3

8/17/99

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Division 4 - DDC

5/28/99

BM #1 ELEV 132.03
SQUARE IN TOP OF 15" RCP
22' LT OF -L- 22+16

PROJECT REFERENCE NO. 80071	SHEET NO. 06
ROADWAY DESIGN ENGINEER 09/18/2024 SEAL 040774 NORTH CAROLINA PROFESSIONAL ENGINEERING EXAMINING BOARD	HYDRAULICS ENGINEER 09/18/2024 SEAL 044158 NORTH CAROLINA PROFESSIONAL ENGINEERING EXAMINING BOARD
Signed by: Norwood D. Ganey III E0088045048	Signed by: Benjamin J. Henegar E0088045048

PIPE HYDRAULIC DATA
*0403 -L- Sta. 23+58

DRAINAGE AREA	= 23	AC
DESIGN FREQUENCY	= 5	YRS
DESIGN DISCHARGE	= 22	CFS
DESIGN HW ELEVATION	= 129.3	FT
100 YEAR DISCHARGE	= 36	CFS
100 YEAR HW ELEVATION	= N/A	FT
OVERTOPPING FREQUENCY	= 10	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= 129.6	FT

PIPE HYDRAULIC DATA
-L- Sta. 24+18

DRAINAGE AREA	= 7.7	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 21	CFS
DESIGN HW ELEVATION	= 128.3	FT
100 YEAR DISCHARGE	= 25	CFS
100 YEAR HW ELEVATION	= 129.0	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 29	CFS
OVERTOPPING ELEVATION	= 129.6	FT

-L-
PI = 16+00.00
EL = 144.10'
VC = 90.00'
K = 60

-L-
PI = 17+00.00
EL = 142.56'
VC = 100.00'
K = 231

-L-
PI = 15+50.00
EL = 144.11'
BEGIN GRADE

-L-
PI = 19+00.00
EL = 138.62'
VC = 100.00'
K = 180

-L-
PI = 20+50.00
EL = 136.50'
VC = 150.00'
K = 510

-L-
PI = 24+60.00
EL = 129.50'
VC = 420.00'
K = 122

-L- 22+00.00
EL = 130.89'
BEGIN DITCH
GRADE RIGHT

-L- 23+25.00
EL = 127.85'
DITCH GRADE RIGHT

-L- 24+23.00
EL = 125.10'
END DITCH
GRADE RIGHT

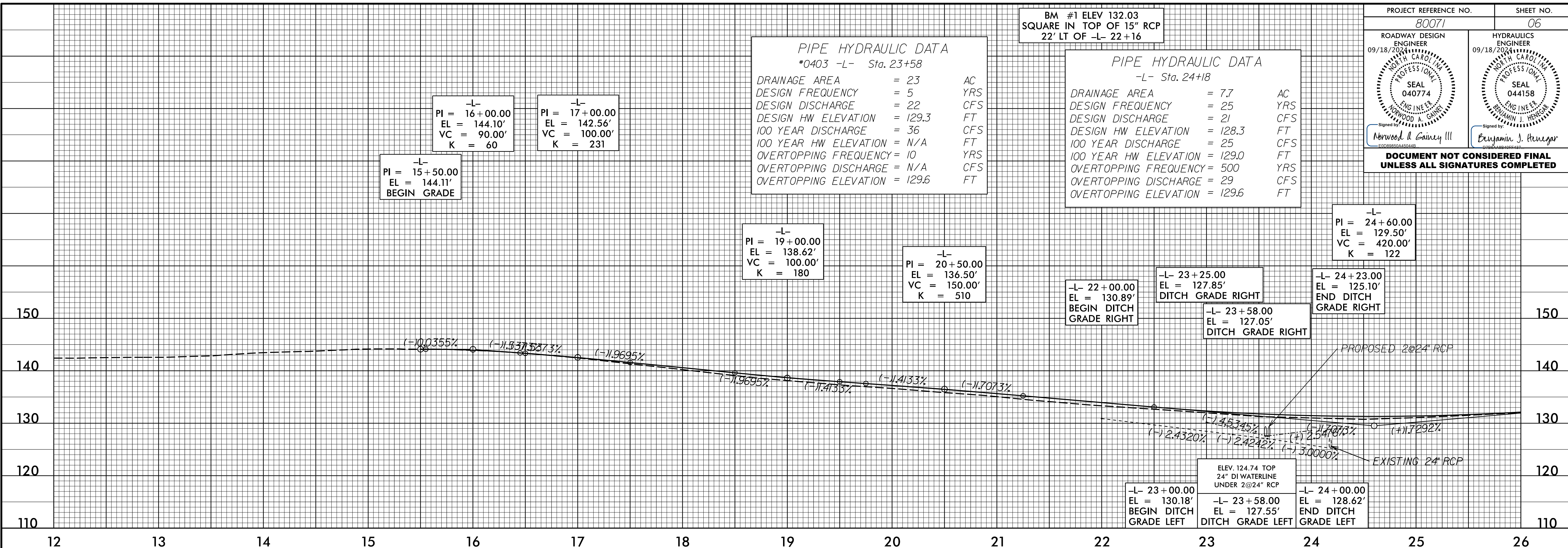
-L- 23+58.00
EL = 127.05'
DITCH GRADE RIGHT

-L- 23+00.00
EL = 130.18'
BEGIN DITCH
GRADE LEFT

ELEV. 124.74 TOP
24" DI WATERLINE
UNDER 2@24" RCP

-L- 23+58.00
EL = 127.55'
DITCH GRADE LEFT

-L- 24+00.00
EL = 128.62'
END DITCH
GRADE LEFT



BM #2 ELEV 130.33
SQUARE IN TOP OF 15" RCP
20' RT OF -L- 33+57

PIPE HYDRAULIC DATA
*0501 -L- Sta. 26+19

DRAINAGE AREA	= 10	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 16	CFS
DESIGN HW ELEVATION	= 130.2	FT
100 YEAR DISCHARGE	= 19	CFS
100 YEAR HW ELEVATION	= 130.7	FT
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING DISCHARGE	= 19	CFS
OVERTOPPING ELEVATION	= 130.7	FT

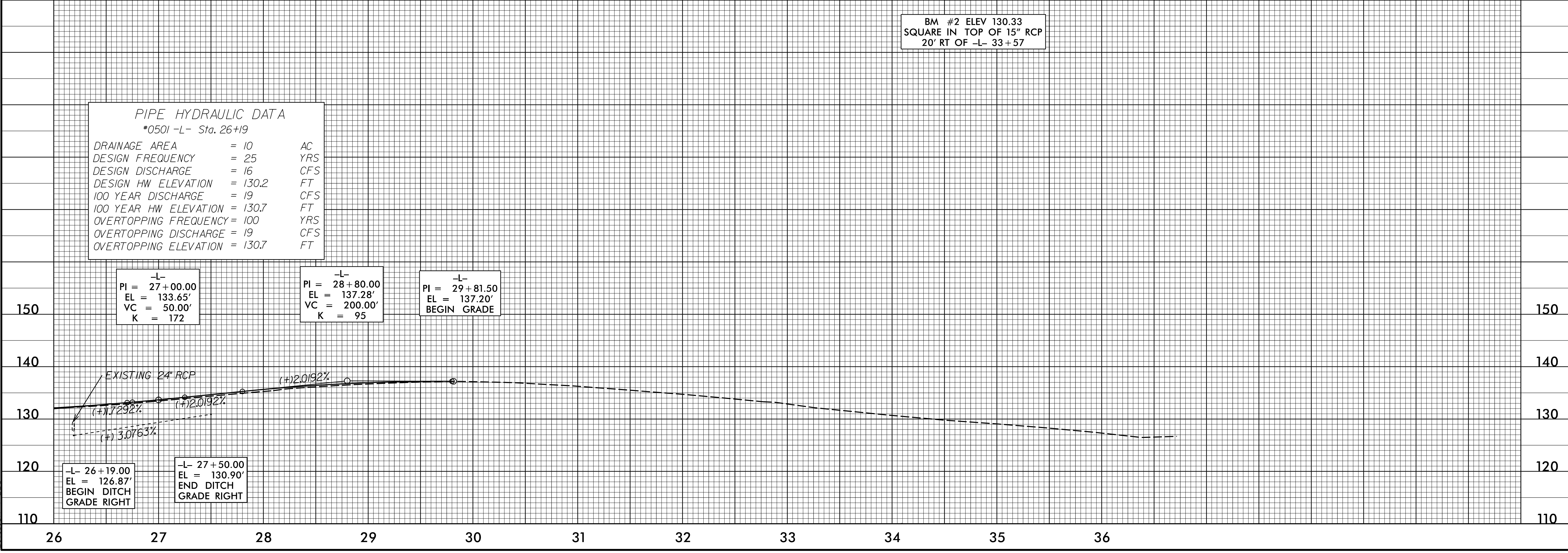
-L-
PI = 27+00.00
EL = 133.65'
VC = 50.00'
K = 172

-L-
PI = 28+80.00
EL = 137.28'
VC = 200.00'
K = 95

-L-
PI = 29+81.50
EL = 137.20'
BEGIN GRADE

-L- 26+19.00
EL = 126.87'
BEGIN DITCH
GRADE RIGHT

-L- 27+50.00
EL = 130.90'
END DITCH
GRADE RIGHT



18-SEP-2024 10:24
R:\Roadway\Proj\80071_ddc4_pro_psh.dgn
Division 4.DWG

09/06/19

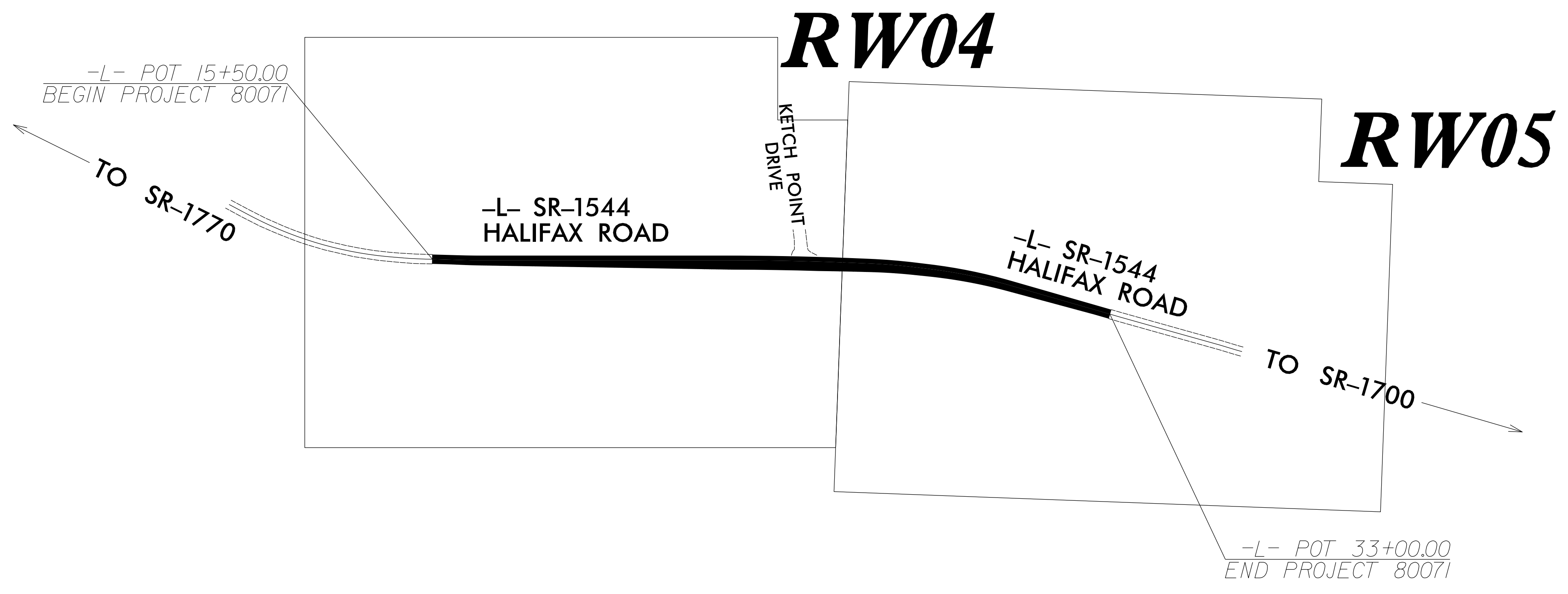
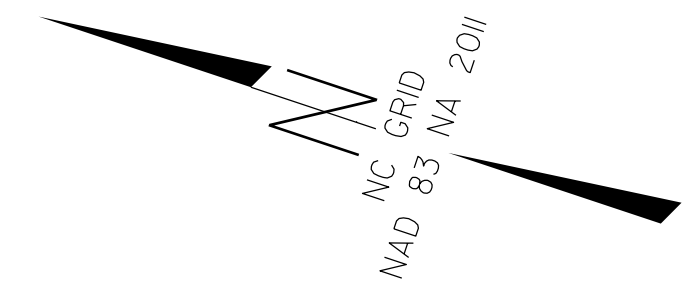
TIP PROJECT: SR 1544

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SR 1544	RW01	

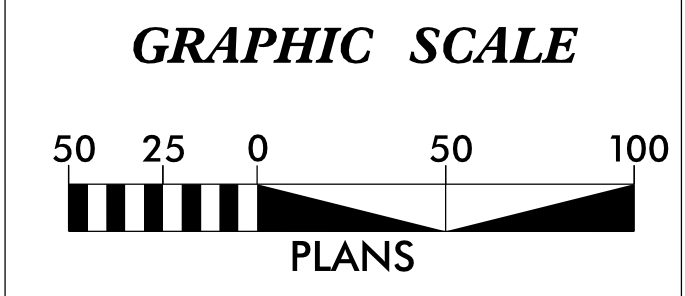
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

NASH COUNTY



\$\$\$\$\$ SYSTEM \$\$\$\$\$\$
\$\$\$\$\$ DGN \$\$\$\$\$\$
\$\$\$\$\$ USERNAME \$\$\$\$\$\$



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "SR1544-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 803,203.601(ft) EASTING: 2,333,654.184(ft) ELEVATION: 143.932(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99994566

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SR1544-1" TO -L- STATION 15+50.00 IS S 25-09'01.7" E 105.48(ft)

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

Prepared in the Office of:

SAM

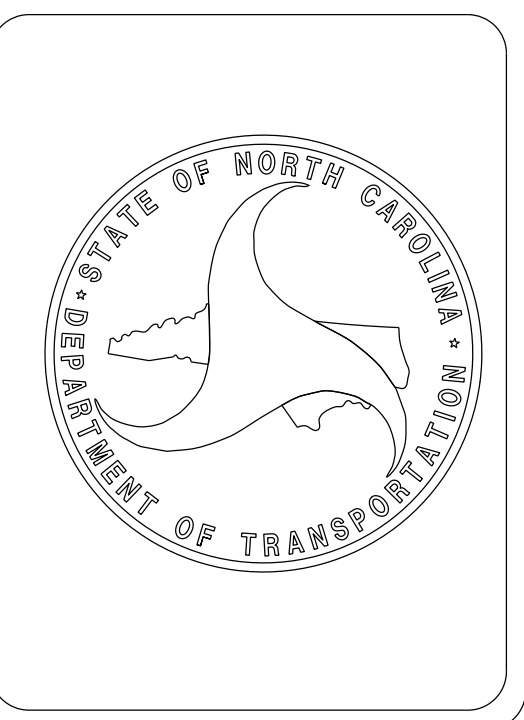
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JANUARY 29, 2019	LETTING DATE: JULY 23, 2024
-----------------------------------------------	---------------------------------------

PROFESSIONAL LAND SURVEYOR

DocuSigned by:
John Kaukolas Jr
SIGNATURE: _____

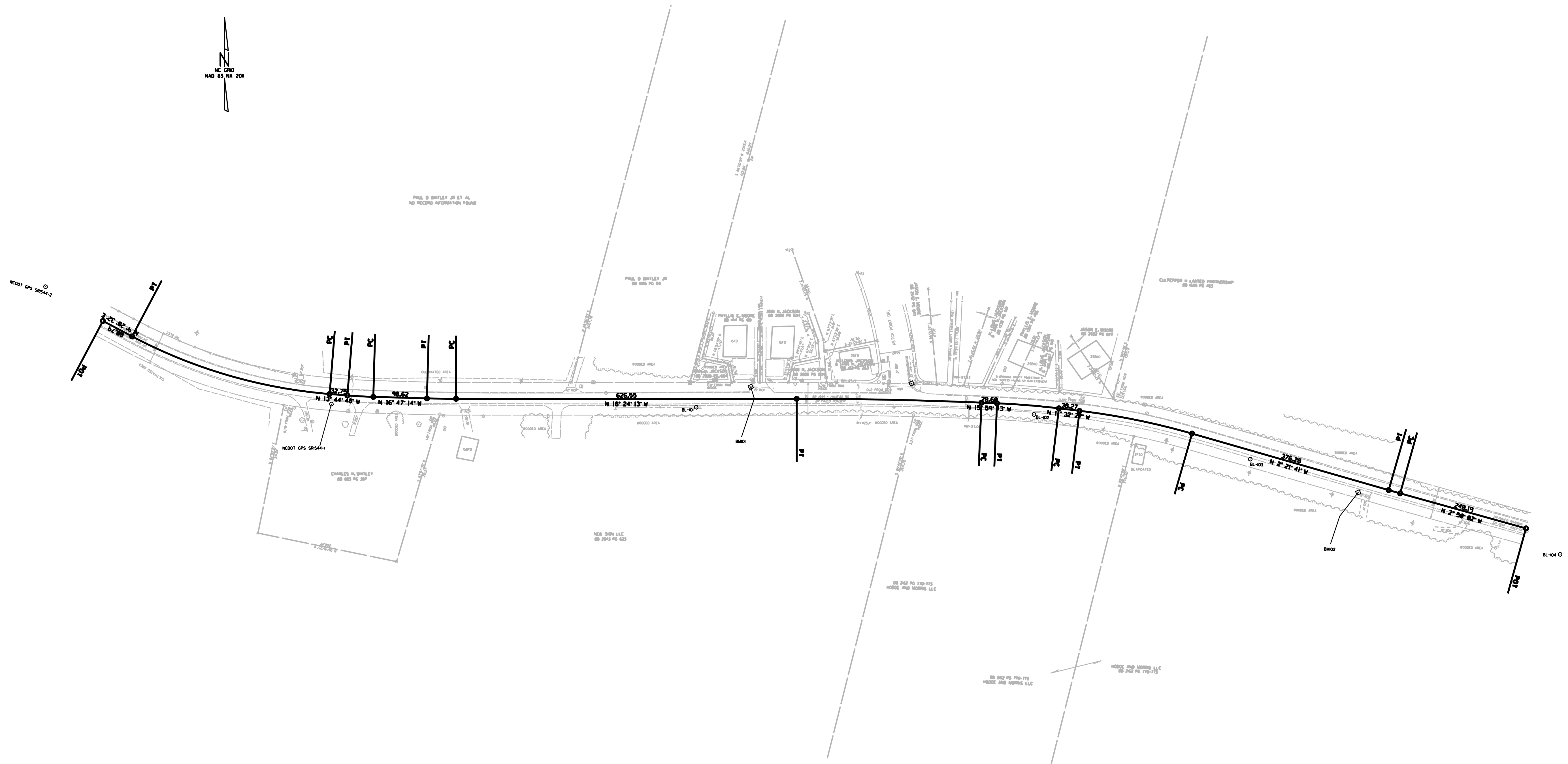
8/30/2023
Date: _____



PROJECT REFERENCE NO.	SHEET NO.
SR 1544	RW02C-1
Location and Surveys	
SO-DEEP SAM NC	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

30-JUN-2019 13:29
 \\saminc\RAL\Projects\1318044177AG_03Ref\Dr14\Surveys\SR1544-RW02C-1.dgn
 Jason.Hedley AT:RAL-L-GDC02G2

NOTES:

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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
101		BL - 101	802565.3310	2333860.3820	134.255
102		BL - 102	801971.5390	2334043.8280	132.663
103		BL - 103	801568.1880	2334091.4680	133.925
104		BL - 104	800801.1660	2334127.0670	121.641

```

*****
BM101 ELEVATION = 132.034
N 802482 E 2333928
"X" CUT IN DRAINAGE STRUCTURE
*****

*****
BM102 ELEVATION = 130.330
N 801360 E 2334096
"X" CUT IN DRAINAGE STRUCTURE
*****

```

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
 6/29/2018

6/2/09

30-JUN-2018 13:45
 L:\Asst\Projects\131804\177AG\03Ref\01-15\Surveys\SR1544-RW02C-2.dgn
 At: 11:00:07

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS
6/29/2018

	EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT	801046.740	2334130.629								
LINE			N 02°50'02.2" W	240.19						
PC	801286.633	2334118.754								
CURVE			N 02°35'51.6" W	21.98	00°28'21.3"(RT)	02°08'59.8"	21.98	10.99	2685.00	
PT	801308.591	2334117.757								
LINE			N 02°21'41.0" W	376.28						
PC	801684.549	2334102.254								
CURVE			N 06°57'04.2" W	211.10	09°10'46.5"(LT)	04°20'38.0"	211.32	105.89	1319.00	
PT	801894.094	2334076.706								
LINE			N 11°32'27.4" W	38.27						
PC	801931.594	2334069.049								
CURVE			N 13°46'05.0" W	114.17	04°27'15.2"(LT)	03°54'01.2"	114.20	57.13	1469.00	
PT	802042.487	2334041.877								
LINE			N 15°59'42.6" W	28.60						
PC	802069.979	2334033.996								
CURVE			N 17°11'57.7" W	339.86	02°24'30.1"(LT)	00°42'30.9"	339.89	169.97	8086.00	
PT	802394.642	2333933.500								
LINE			N 18°24'12.7" W	626.55						
PC	802989.150	2333735.692								
CURVE			N 17°35'43.2" W	53.60	01°36'59.1"(RT)	03°00'56.0"	53.60	26.80	1900.00	
PT	803040.243	2333719.489								
LINE			N 16°47'13.6" W	98.62						
PC	803134.656	2333691.007								
CURVE			N 15°16'00.6" W	47.76	03°02'26.1"(RT)	06°21'58.3"	47.76	23.89	900.00	
PT	803180.727	2333678.433								
LINE			N 13°44'47.5" W	32.75						
PC	803212.538	2333670.651								
CURVE			N 02°08'07.6" W	378.38	23°13'19.8"(RT)	06°05'43.1"	380.99	193.14	940.00	
PT	803590.658	2333656.551								
LINE			N 09°28'32.3" E	60.79						
POT	803650.618	2333666.559								

NOTES:

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

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
SR 1544	RW02D-1
Location and Surveys	
SO-DEEP SAM NC	

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	803650.6180	2333666.5590
PC	10+60.79	803590.6578	2333656.5513
PT	14+41.77	803212.5378	2333670.6506
PC	14+74.52	803180.7270	2333678.4326
PT	15+22.29	803134.6565	2333691.0074
PC	16+20.90	803040.2432	2333719.4893
PT	16+74.50	802989.1502	2333735.6924
PC	23+01.06	802394.6419	2333933.4998
PT	26+40.94	802069.9788	2334033.9958
PC	26+69.54	802042.4866	2334041.8766
PT	27+83.74	801931.5944	2334069.0488
PC	28+22.02	801894.0935	2334076.7063
PT	30+33.34	801684.5492	2334102.2538
PC	34+09.62	801308.5911	2334117.7573
PT	34+31.60	801286.6326	2334118.7535
POT	36+71.78	801046.7399	2334130.6287

L1

TYPE	STATION	NORTH	EAST
POT	10+00.00	803650.6180	2333666.5590
PC	10+60.79	803590.6578	2333656.5513
PT	14+41.77	803212.5378	2333670.6506
PC	14+74.52	803180.7270	2333678.4326
PT	15+22.29	803134.6565	2333691.0074
PC	15+78.27	803081.0555	2333707.1774
PT	21+42.51	802543.2345	2333877.7360
PC	23+01.11	802392.7476	2333927.8066
PCC	25+74.34	802132.0830	2334009.6679
PT	31+79.14	801536.9296	2334108.3412
PC	34+07.67	801308.5911	2334117.7573
PT	34+29.65	801286.6326	2334118.7535
POT	36+69.84	801046.7399	2334130.6287

NOTES:

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

REVISIONS

6/2/09

C:\JUN-2009\1416\PROJECTS\1318044177AG\03Ref\0r1\Surveys\SR1544-RW02D-1.dgn
 Jason Hedrick
 AT 11:00:02

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. SR-1544 SHEET NO. RW03E-1

Location and Surveys

ORIGINAL STAKING DONE BY SO-DEEP SAM NC
REVISIONS COMPLETED BY
LOCATION AND SURVEYS WILSON NC
083023

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	15+40.00	30.00	803109.0320	2333667.4023
L	15+40.00	40.00	803106.1438	2333657.8284
L	16+20.90	40.00	803028.6906	2333681.1939
L	16+74.50	40.00	802976.5219	2333697.7381
L	23+01.06	40.00	802382.0136	2333895.5455
L	26+40.94	40.00	802058.9565	2333995.5444
L	27+26.64	40.00	801977.7849	2334017.6897
L	27+83.74	40.00	801923.5917	2334029.8575
L	28+22.02	40.00	801886.0908	2334037.5150
L	30+33.34	40.00	801682.9011	2334062.2878
L	30+33.34	30.00	801683.3131	2334072.2793

I, G. Paul Woodard, 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 26+00 to 30+33.34, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 30th day of August, 2023.

G.P. Woodard

Professional Land Surveyor L-4205

NOTES:


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

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

REVISIONS

3:\JUL-2023\03-06\Projects\Conventional\SR-1544 (80071)\04-23-048 (RW Revision)\Field\PAUL DGNS NEW SR1544_1s_r_w03e-1new.dgn
G. Paul Woodard
AL 1544-23689

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO. SR-1544	SHEET NO. RW03E-2
Location and Surveys	
ORIGINAL STAKING DONE BY SO-DEEP/SAM NC REVISIONS COMPLETED BY LOCATION AND SURVEYS WILSON NC 08/30/23	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	22+05.00	40.00	802473.1567	2333865.2200
L	24+35.00	70.00	802246.2073	2333907.9555
L	24+35.00	40.00	802255.2057	2333936.5742
L	26+10.00	40.00	802088.5371	2333987.0037
L	26+10.00	58.00	802083.5109	2333969.7197
L	27+83.74	40.00	801923.5917	2334029.8575
L	29+13.00	40.00	801799.1112	2334052.1717
L	29+13.00	60.00	801796.4699	2334032.3468
L	29+33.00	60.00	801777.5285	2334034.7244
L	29+33.00	40.00	801779.8689	2334054.5870

I, G. Paul Woodard, 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 26+00 to 30+33.34, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 30th day of August, 2023.

G.P. Woodard

Professional Land Surveyor L-4205


NOTES:

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

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

REVISIONS

3:\JUL-2023\07146-projects\Conventional\SR-1544 (80071)\04-23-048 (RW Revision)\Field\PAUL DGNS NEW\SR1544_1s_rw03e-2new.dgn
 G. Paul Woodard
 AT 11:50:23 8/30/23

PROJECT REFERENCE NO. SR 1544	SHEET NO. RW04
Location and Surveys	
SO-DEEP SAM NC	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Jason C. Hedley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further 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.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 30th day of June, 2019.

DocuSigned by:
Jason C. Hedley
406CE025263344E
Professional Land Surveyor

L-4964
PLS #

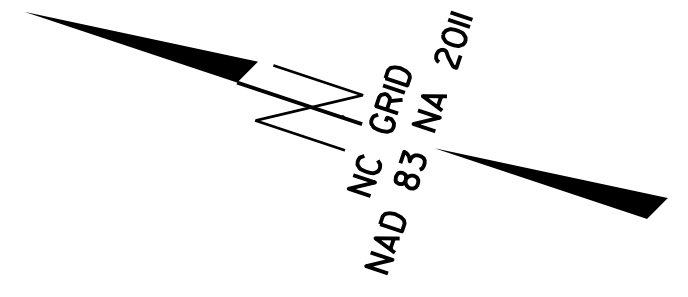
PAUL D WHITLEY JR
DB 1065 PG 34

PI Sta 24+71.02
Δ = 2° 24' 30" (RT)
D = 0' 42' 30.9"
L = 339.89'
T = 169.97'
R = 8,086.00'

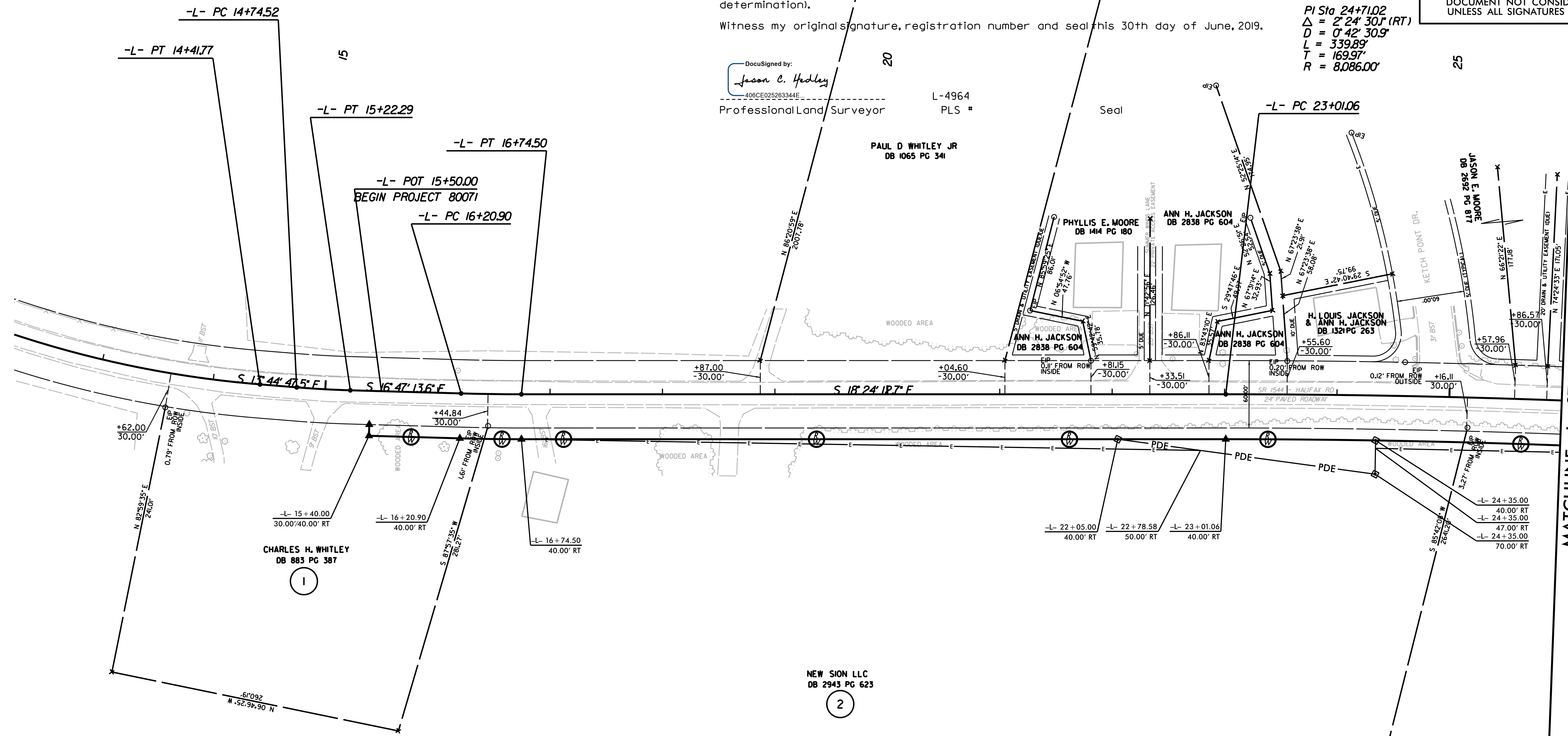
PI Sta 12+53.93
Δ = 2° 13' 19.8" (LT)
D = 6' 05' 43.1"
L = 380.99'
T = 193.14'
R = 940.00'

PI Sta 14+98.41
Δ = 3° 02' 26.1" (LT)
D = 6' 21' 58.3"
L = 47.76'
T = 23.89'
R = 900.00'

PI Sta 16+47.70
Δ = 1° 36' 59.1" (LT)
D = 3' 00' 56.0"
L = 53.60'
T = 26.80'
R = 1,900.00'



PAUL D WHITLEY JR ET AL
NO RECORD INFORMATION FOUND



REVISIONS


MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 05

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/19
15 JUL 2019 10:02 AM
C:\Users\jhedley\Documents\Projects\1318044177AG\03Ref\01\1\Surveys\1544_1s.rw04.dgn
Jason Hedley, AT 1544

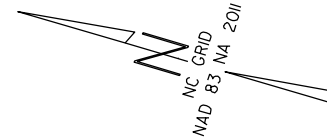
6/2/09

PROJECT REFERENCE NO.	SHEET NO.
SR-1544	RW05
Location and Surveys	
ORIGINAL STAKING DONE BY SO-DEEP/SAM NC REVISIONS COMPLETED BY LOCATION AND SURVEYS WILSON NC 08/30/23	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

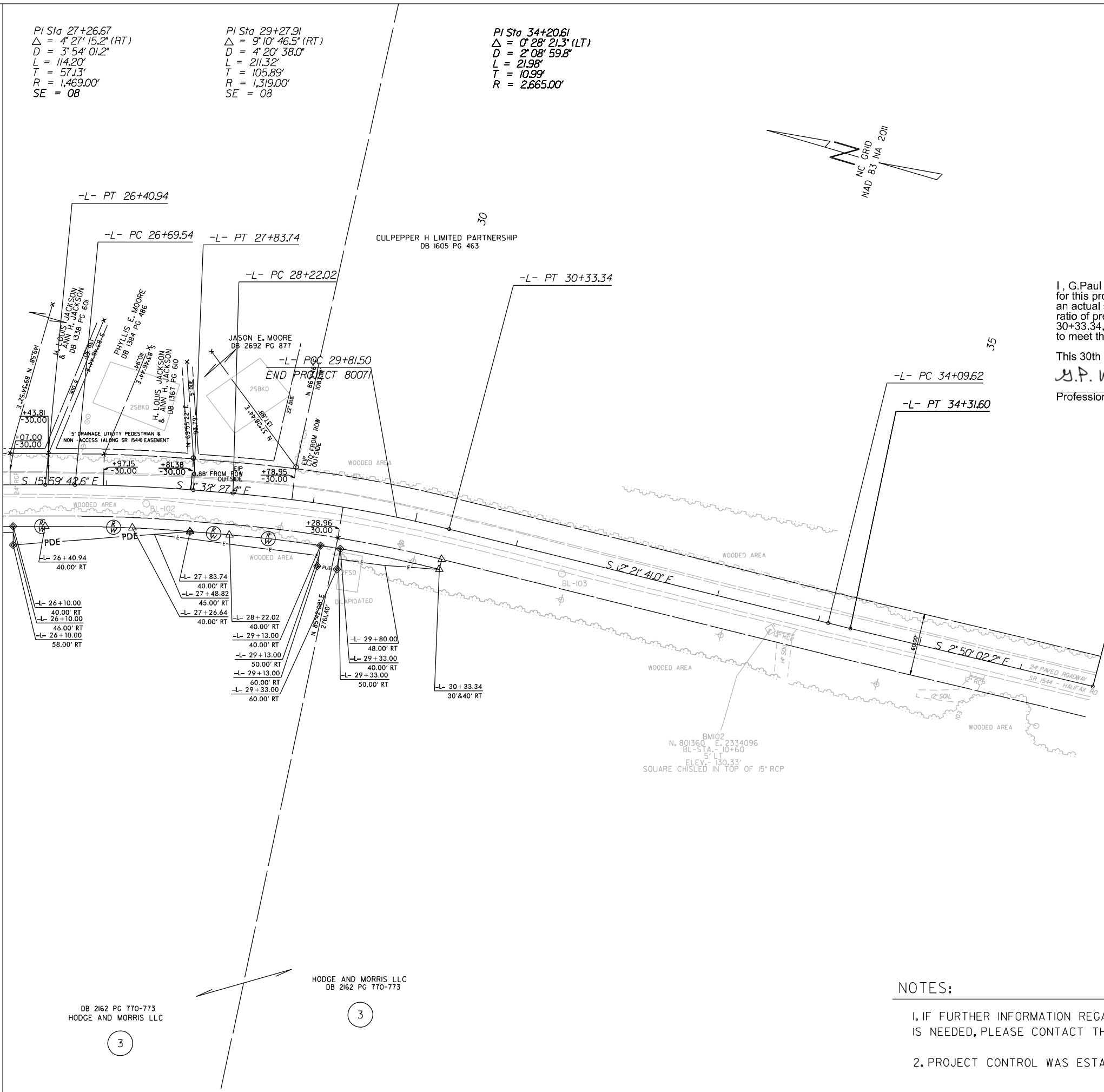
PI Sta 27+26.67
 $\Delta = 4^{\circ} 27' 15.2''$ (RT)
 $D = 3^{\circ} 54' 01.2''$
 $L = 114.20'$
 $T = 57.13'$
 $R = 1,469.00'$
 $SE = 08$

PI Sta 29+27.91
 $\Delta = 9^{\circ} 10' 46.5''$ (RT)
 $D = 4^{\circ} 20' 38.0''$
 $L = 211.32'$
 $T = 105.89'$
 $R = 1,319.00'$
 $SE = 08$

PI Sta 34+20.61
 $\Delta = 0^{\circ} 28' 21.3''$ (LT)
 $D = 2^{\circ} 08' 59.8''$
 $L = 21.98'$
 $T = 10.99'$
 $R = 2,665.00'$



MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 04



I, G. Paul Woodard, 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 26+00 to 30+33.34, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 30th day of August, 2023.

G.P. Woodard

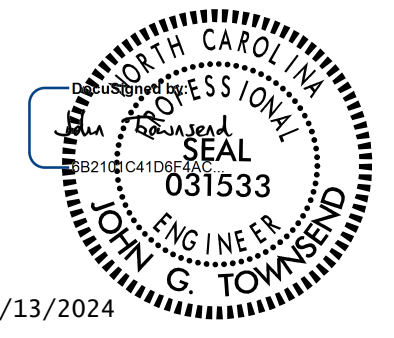
Professional Land Surveyor L-4205

REVISIONS

3:\NCS-2023-08150-projects\Conventional\SR-1544 (80071)\04-23-048 (RW Revision)\Field\PAUL DGNS NEW SR1544_1s_rw05new.dgn
 6/2/2023 10:59:00 AM
 G. Paul Woodard

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

TIP NO.	SHEET NO.
80071	PMP - 1
APPROVED: _____	
DATE: _____	
SEAL	
	
2/13/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
NASH COUNTY**

LOCATION: SR-1544 (HALIFAX ROAD) AT KETCH POINT SUBDIVISION

T.I.P.: 80071

CONTRACT: DD00454

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2 THRU PMP-3	PAVEMENT MARKING DETAIL

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	MARKERS
ALL ROADS	THERMOPLASTIC	NONE
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

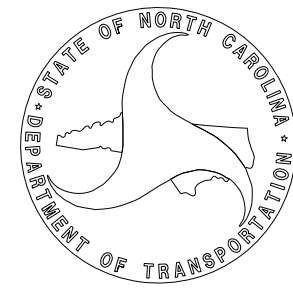
ROADWAY STANDARD DRAWING


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

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
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

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
THERMOPLASTIC	
T20	WHITE EDGELINE (6", 90 MIL)
T21	WHITE SOLID LANE LINE (6", 90 MIL)
T23	3 FT.- 9 FT./SP WHITE MINISKIP (6", 90 MIL)
T24	2 FT.- 6 FT./SP WHITE MINISKIP (6", 90 MIL)
T31	YELLOW SINGLE CENTER (6", 90 MIL)
T32	10 FT. YELLOW SKIP (6", 90 MIL)
T33	YELLOW DOUBLE CENTER (6", 90 MIL)
T52	YELLOW DIAGONAL (12", 90 MIL)
T70	LEFT TURN ARROW (90 MIL)

PLAN SUBMITTED TO:	
<i>Keith Eason, PE; Project Engineer</i>	

PLAN PREPARED BY: VHB Engineering NC, P.C.	 <small>940 Main Campus Drive, Suite 500 Raleigh, NC 27606 NC License No. C-3705</small>
<i>John Townsend, PE</i> Project Design Engineer Project Engineer	

APPROVED: _____
 DATE: _____

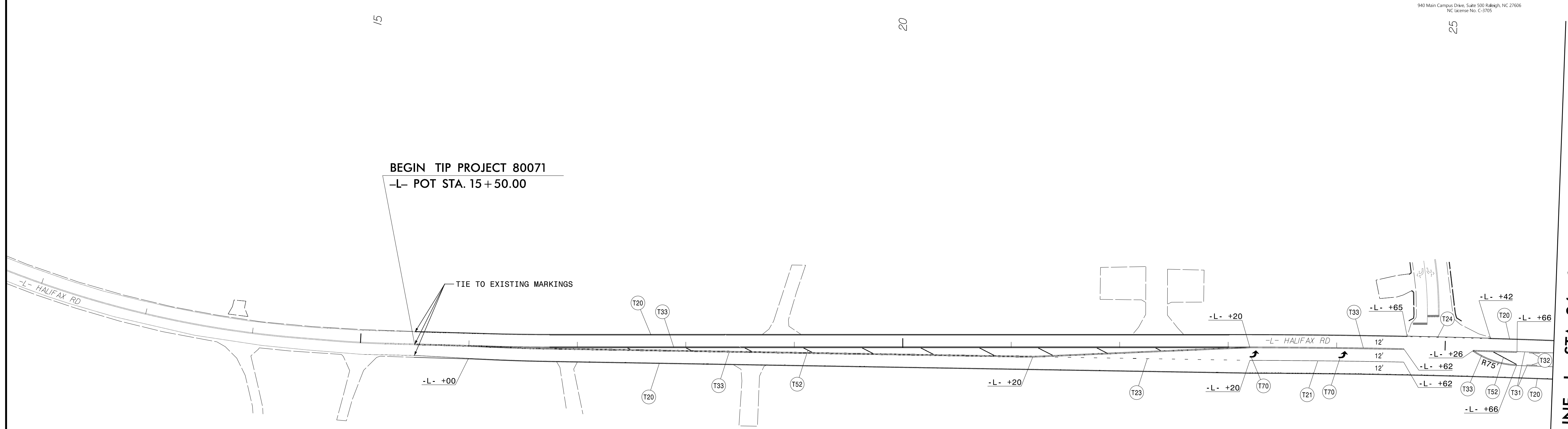
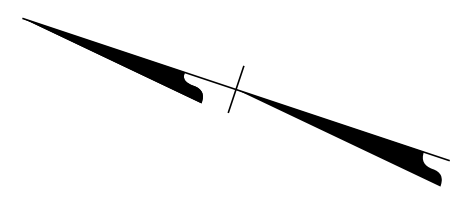
SEAL

2/13/2024

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



PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
THERMOPLASTIC	
T20	WHITE EDGELINE (6", 90 MIL)
T21	WHITE SOLID LANE LINE (6", 90 MIL)
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T33	YELLOW DOUBLE CENTER (6", 90 MIL)
T52	YELLOW DIAGONAL (12", 90 MIL)
T70	LEFT TURN ARROW (90 MIL)



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

2/13/2024
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 User:jtownsend

PAVEMENT MARKING DETAIL

APPROVED: _____
 DATE: _____

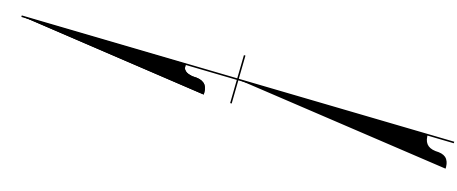
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2/13/2024

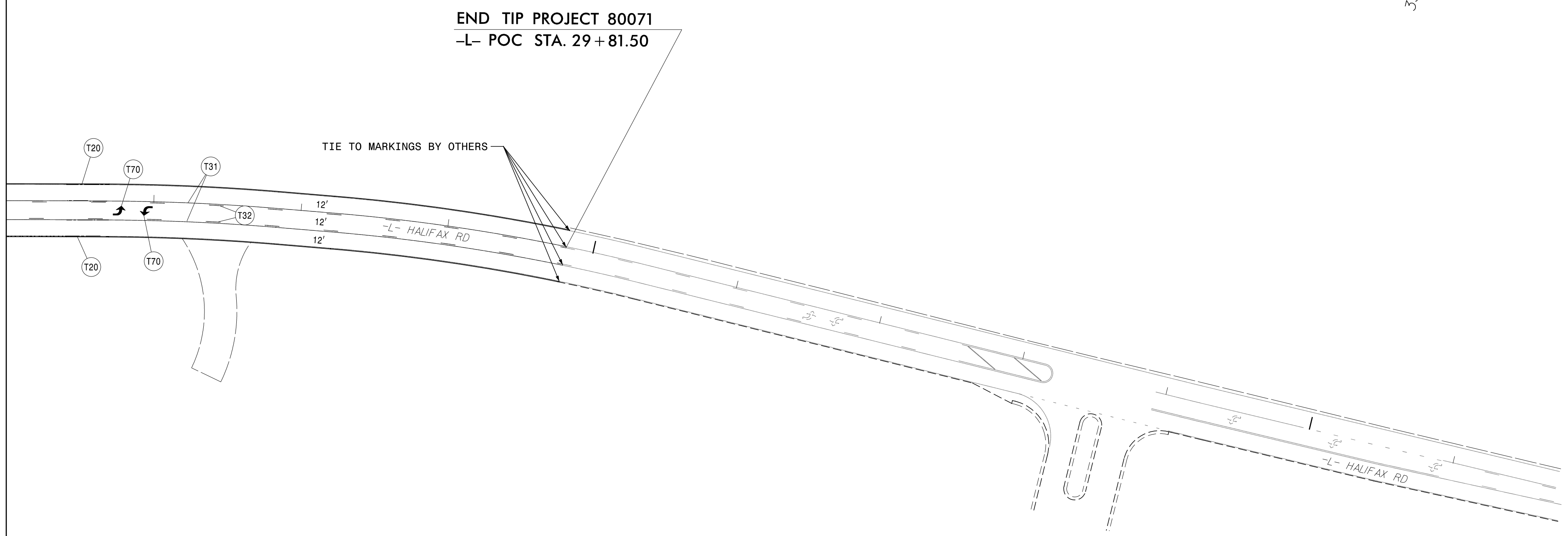
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
THERMOPLASTIC	
T20	WHITE EDGELINE (6", 90 MIL)
T22	WHITE SOLID LANE LINE (6", 90 MIL)
T23	3 FT. - 9 FT. /SP WHITE MINISKIP (6", 90 MIL)
T24	2 FT. - 6 FT. /SP WHITE MINISKIP (6", 90 MIL)
T31	YELLOW SINGLE CENTER (6", 90 MIL)
T32	10 FT. YELLOW SKIP (6", 90 MIL)
T33	YELLOW DOUBLE CENTER (6", 90 MIL)
T52	YELLOW DIAGONAL (12", 90 MIL)
T70	LEFT TURN ARROW (90 MIL)



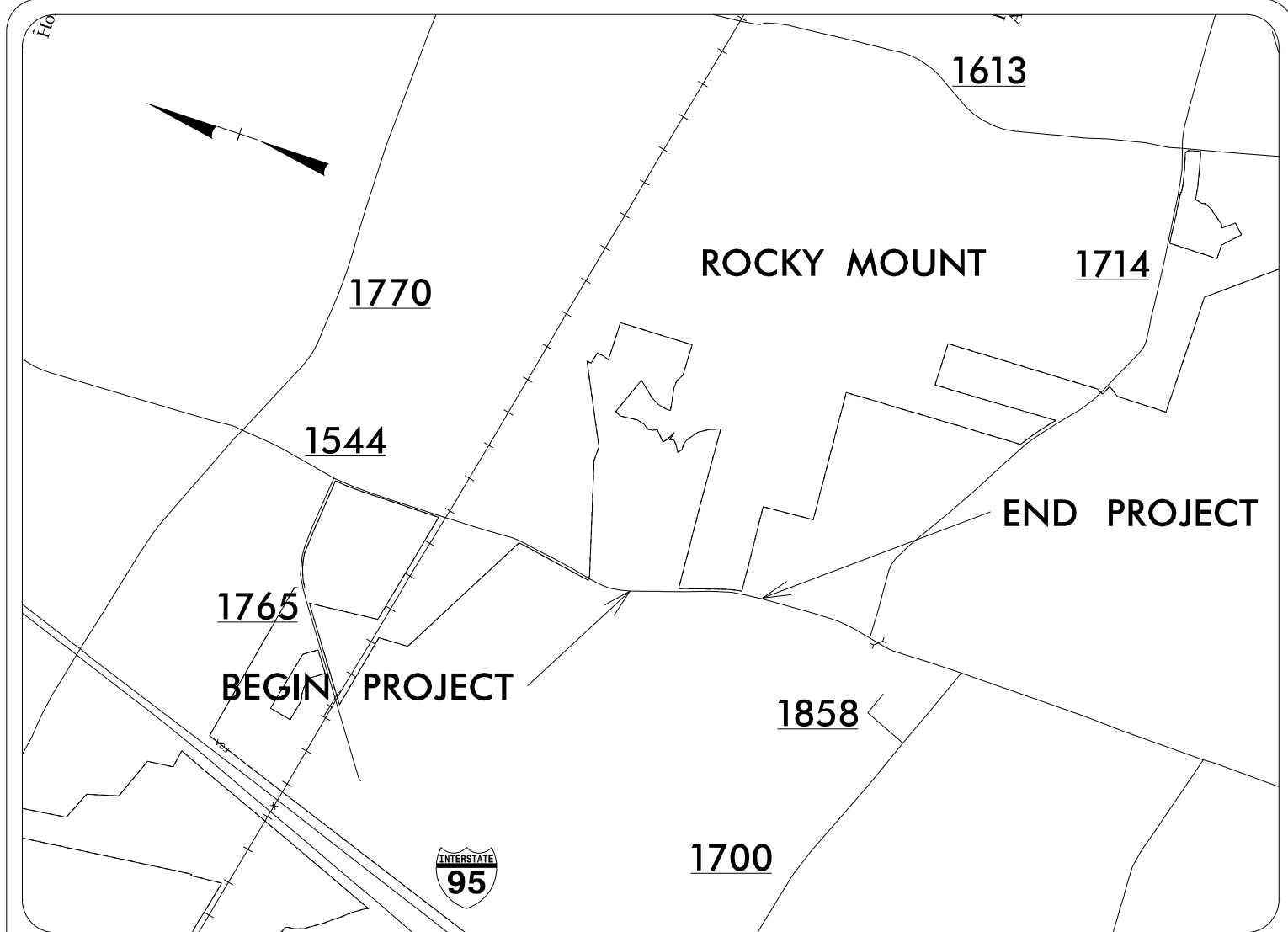
MATCHLINE -L- STA. 26+00.00
SEE SHEET PMP-2



2/13/2024
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User:jtownsend

PAVEMENT MARKING DETAIL

TIP PROJECT: 80071



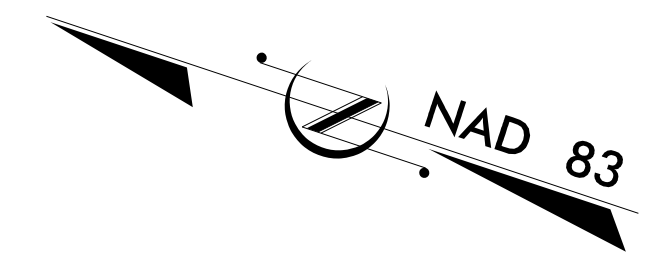
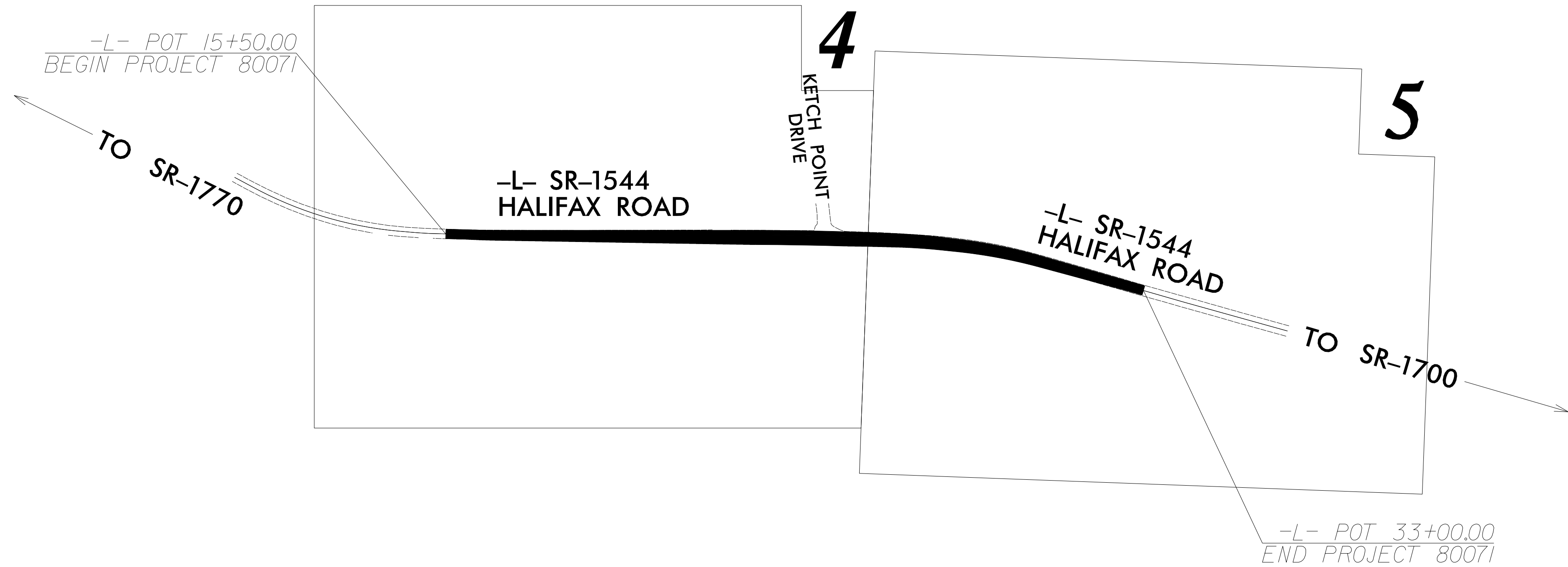
VICINITY MAP
NOT TO SCALE

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

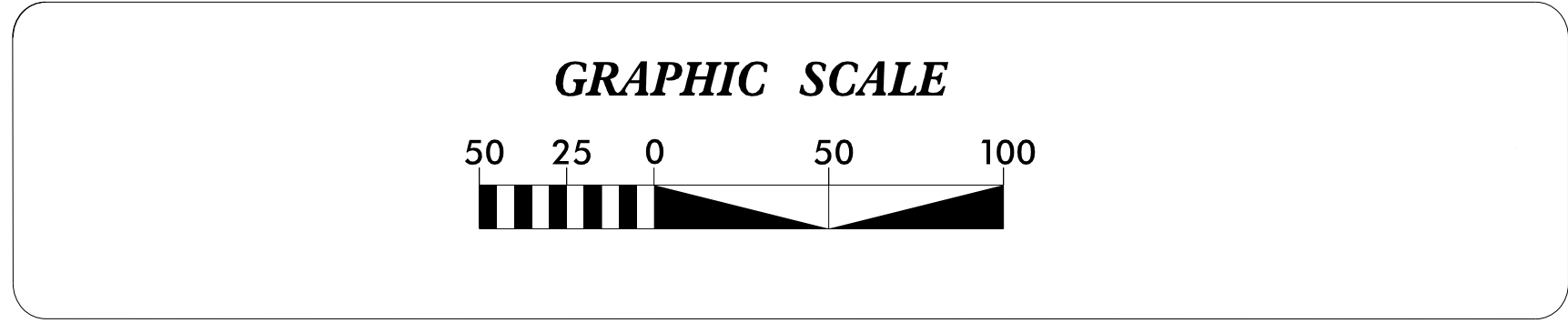
LOCATION: SR 1544 (HALIFAX ROAD) AT KETCH POINT SUBDIVISION.

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

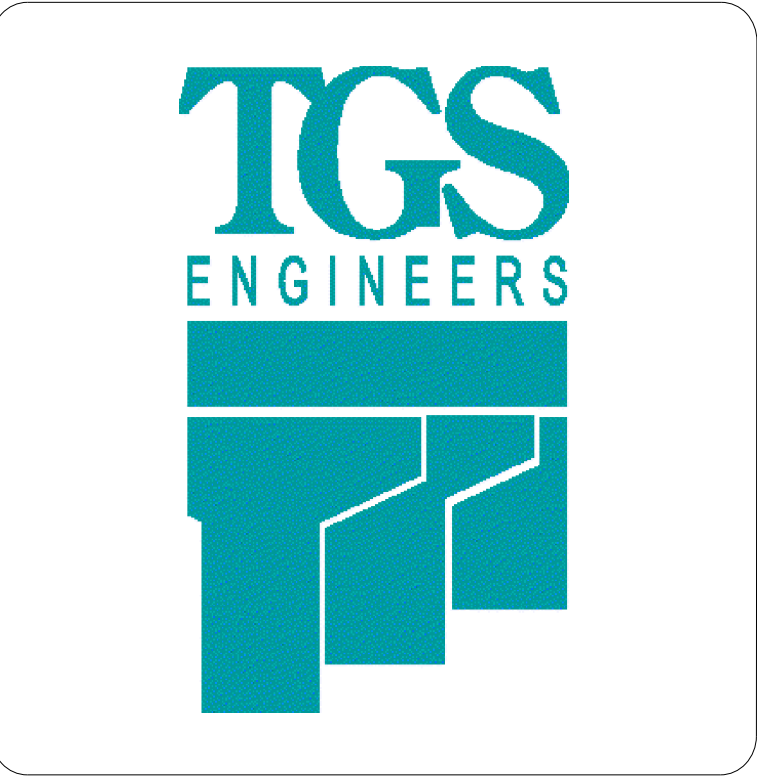
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	80071	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



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



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



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

Designed by:

Ben Henegar, PE 3564
NAME 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

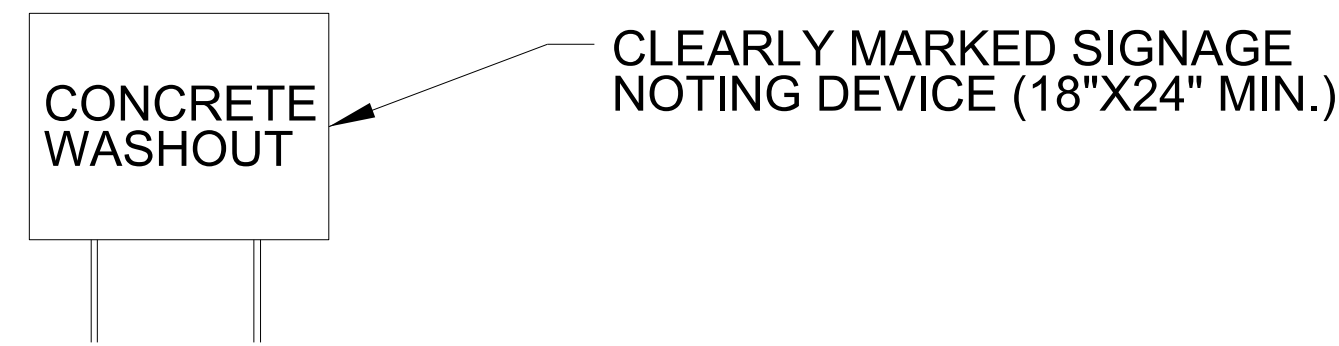
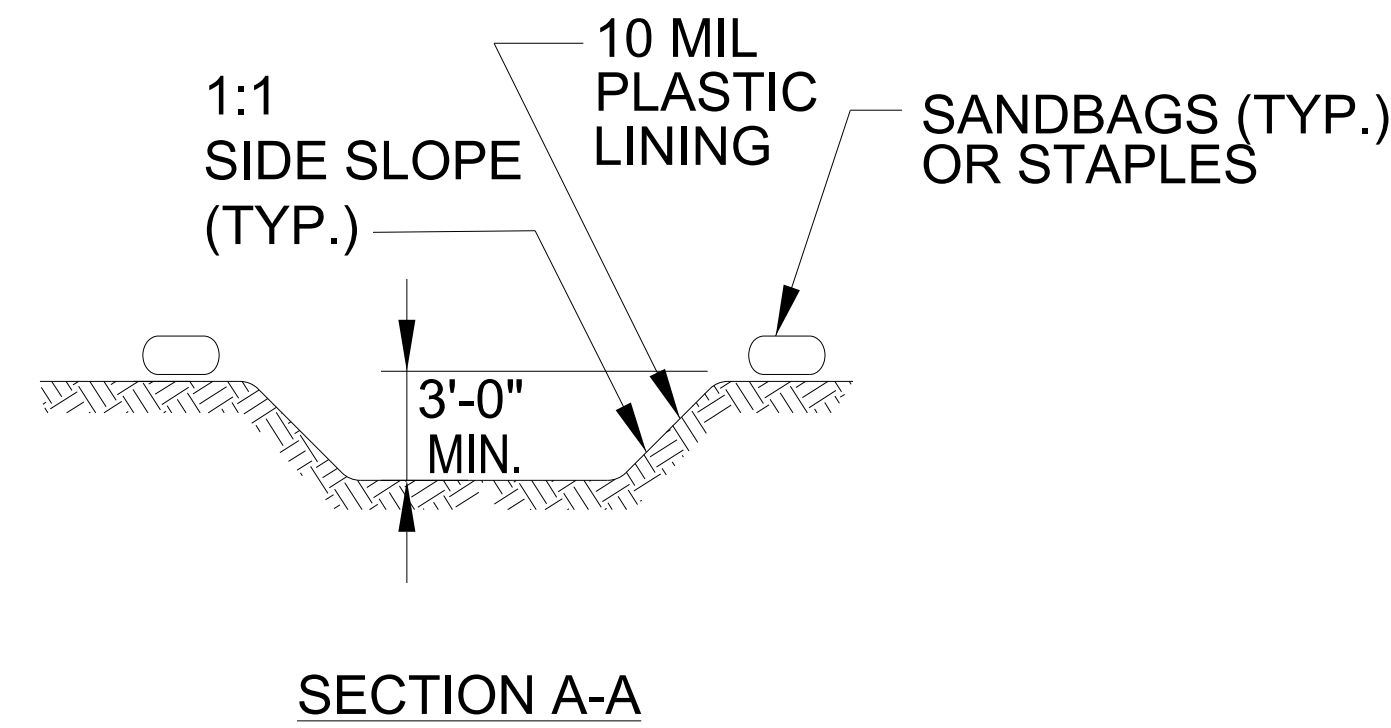
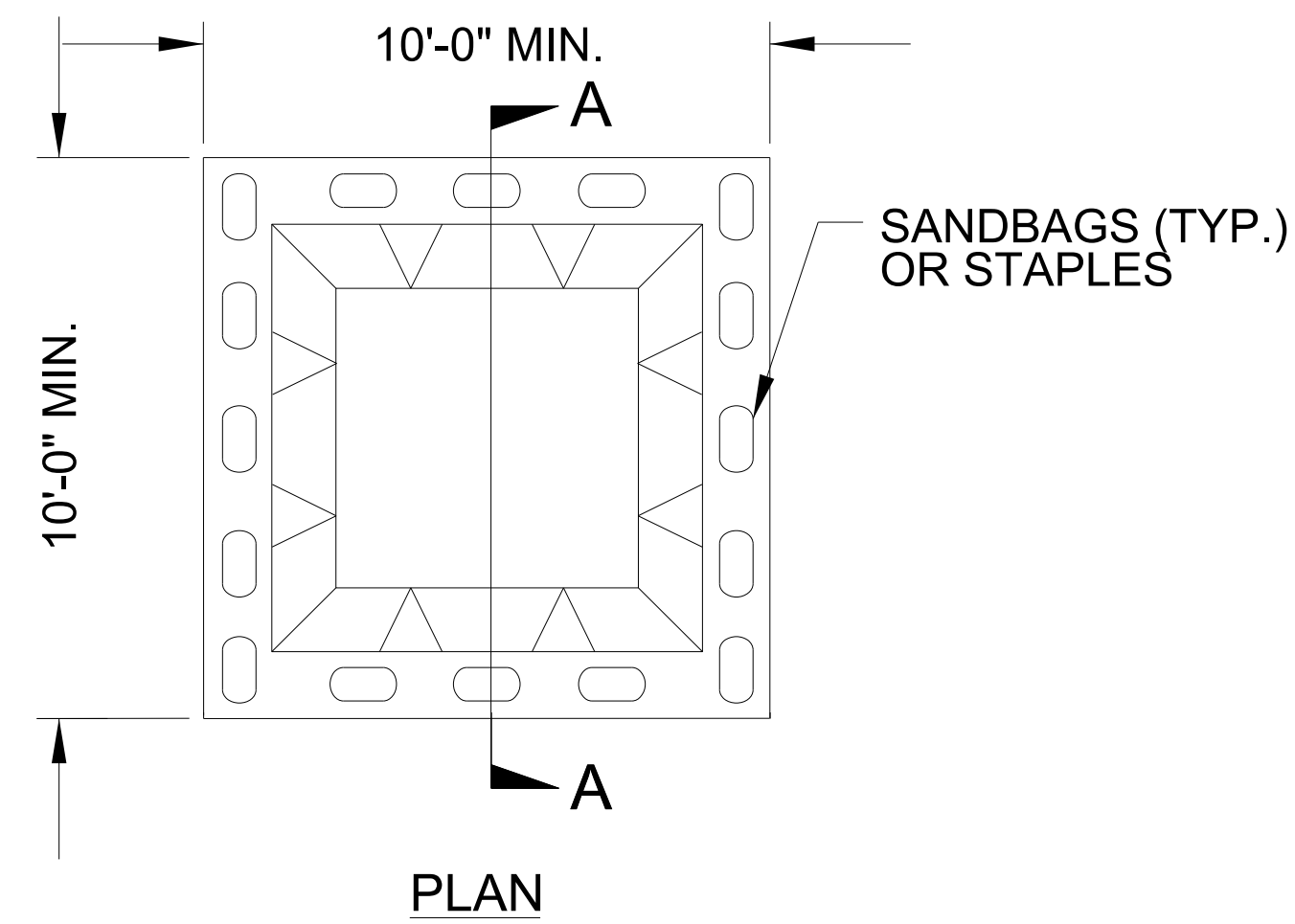
PROJECT REFERENCE NO. 80071	SHEET NO. EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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				

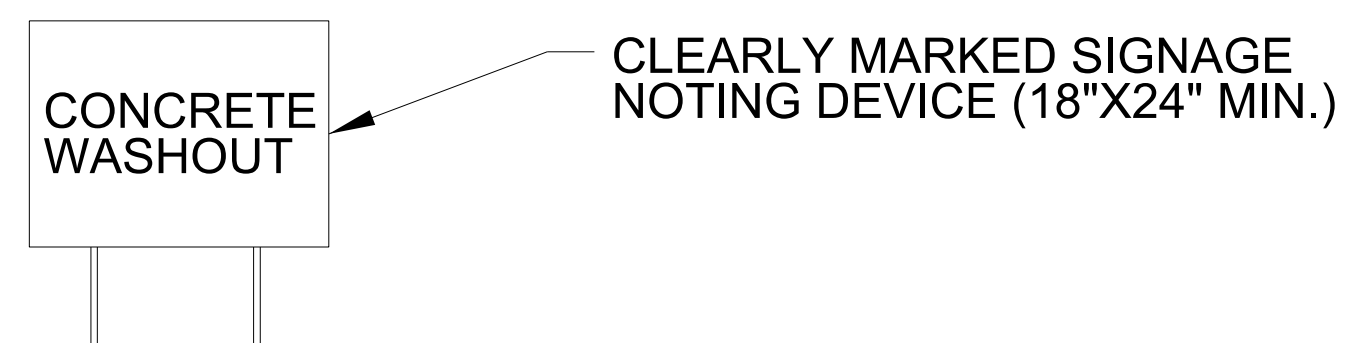
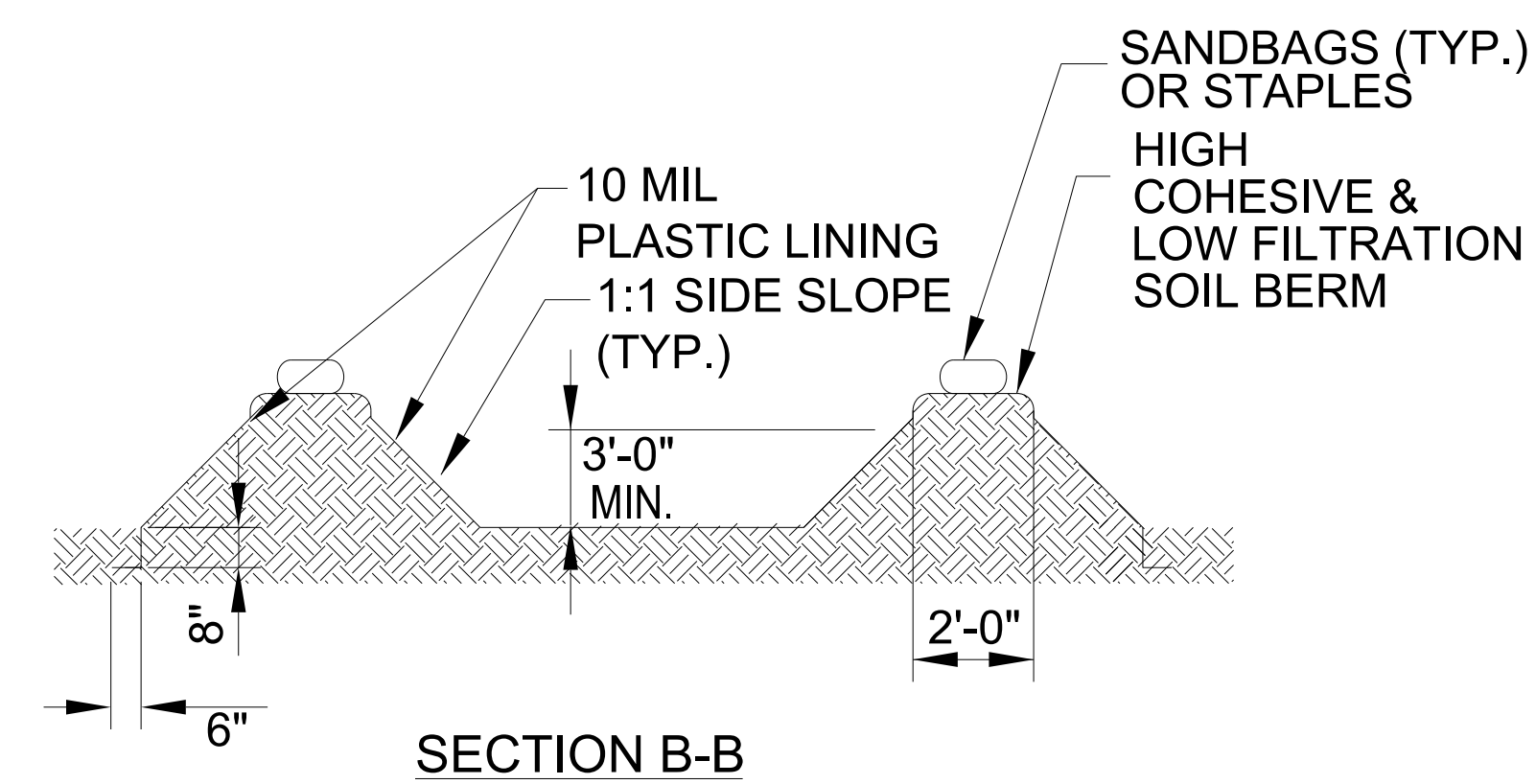
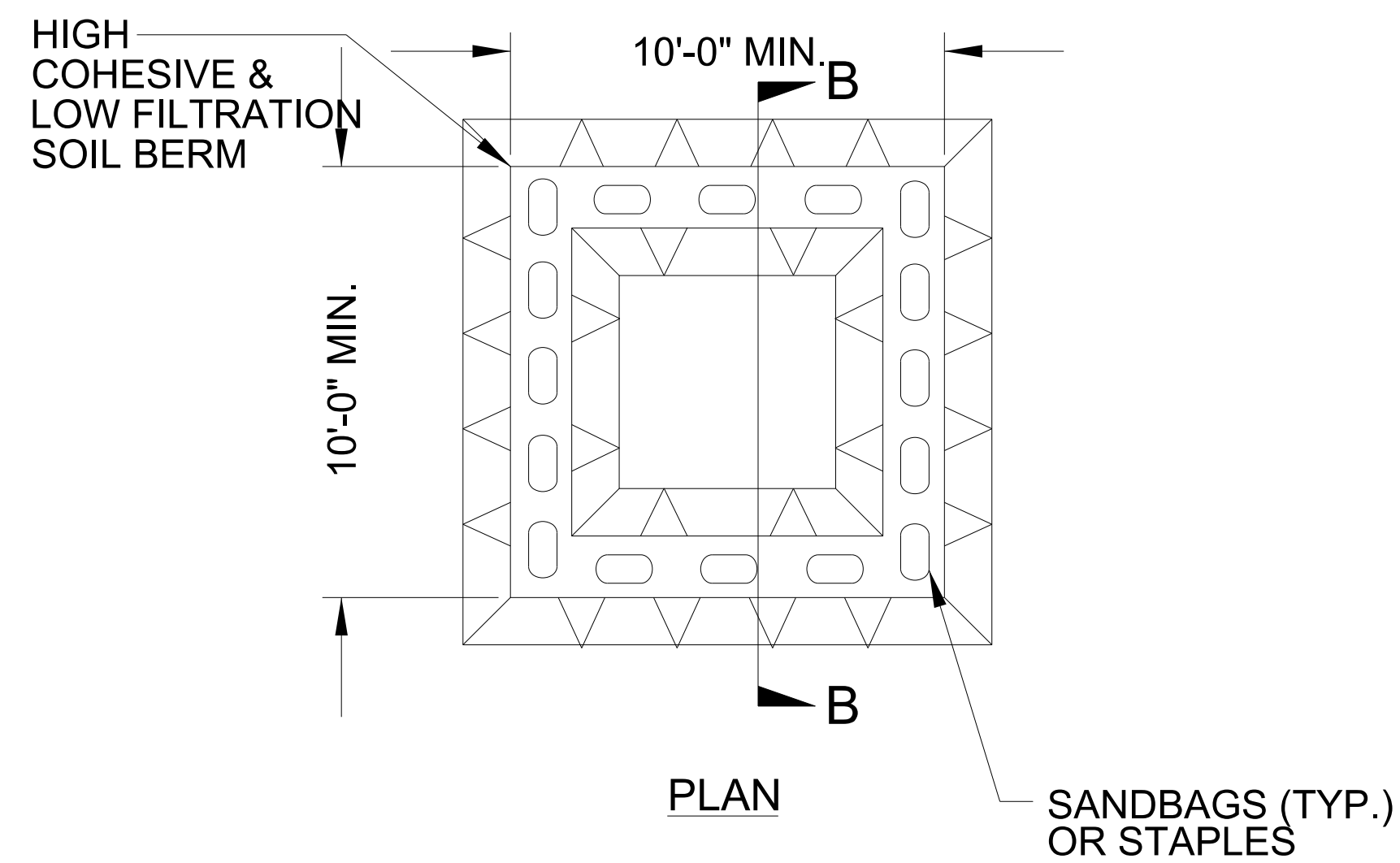
PROJECT REFERENCE NO.	SHEET NO.
80071	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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.



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.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>80071</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

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

MATTING FOR EROSION CONTROL

<i>CONST SHEET NO.</i>	<i>LINE & TYPE</i>	<i>FROM STATION</i>	<i>TO STATION</i>	<i>SIDE</i>	<i>ESTIMATE (SY)</i>
<i>4</i>	<i>-L- DITCH</i>	<i>23+00</i>	<i>23+58</i>	<i>LT</i>	<i>45</i>
<i>4</i>	<i>-L- DITCH</i>	<i>23+58</i>	<i>24+00</i>	<i>LT</i>	<i>30</i>
<i>4</i>	<i>-L- DITCH</i>	<i>23+25</i>	<i>24+21</i>	<i>RT</i>	<i>105</i>
<i>4</i>	<i>-L- DITCH</i>	<i>22+00</i>	<i>23+25</i>	<i>RT</i>	<i>90</i>
<i>4</i>	<i>-L- DITCH</i>	<i>26+19</i>	<i>27+50</i>	<i>RT</i>	<i>120</i>
<i>SUBTOTAL</i>					<i>390</i>
<i>MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER</i>					<i>500</i>
<i>TOTAL</i>					<i>890</i>
<i>SAY</i>					<i>900</i>

PROJECT REFERENCE NO.	SHEET NO.
80071	EC-4
RW SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

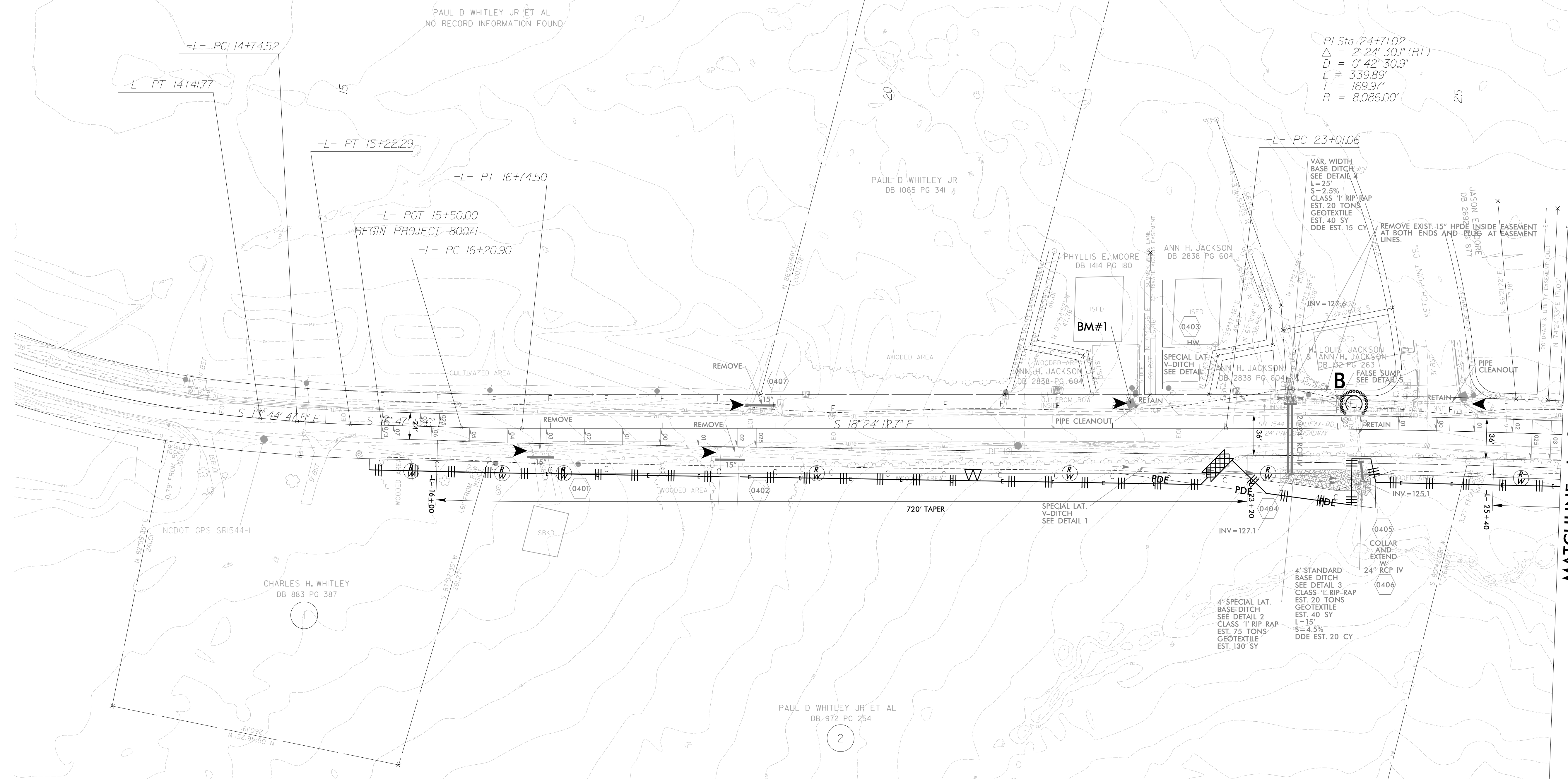


PI Sta 12+53.93
Δ = 23° 13' 19.8" (LT)
D = 6' 05' 43.1"
L = 380.99'
T = 193.14'
R = 940.00'

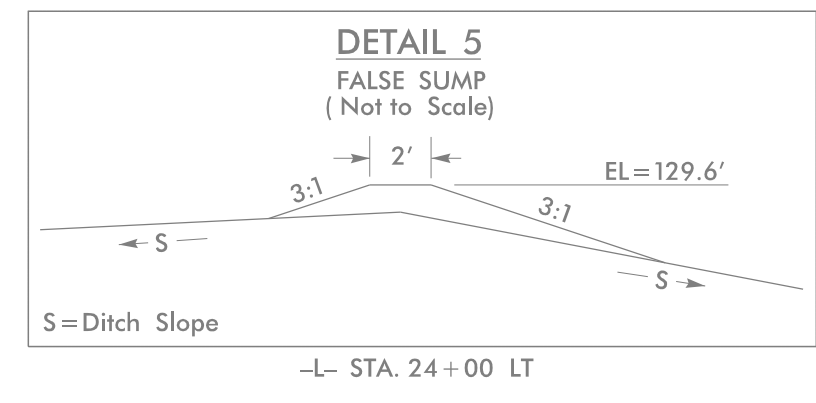
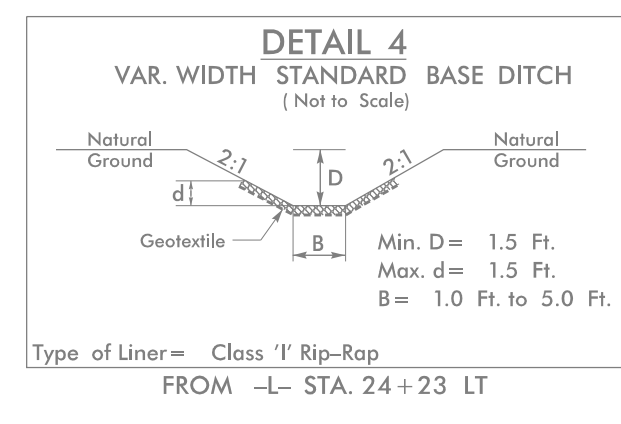
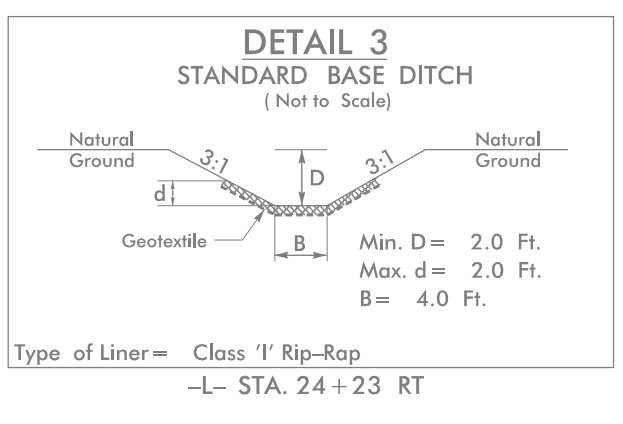
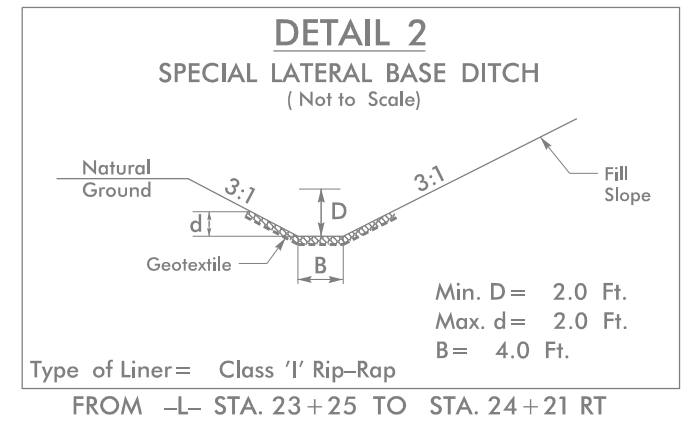
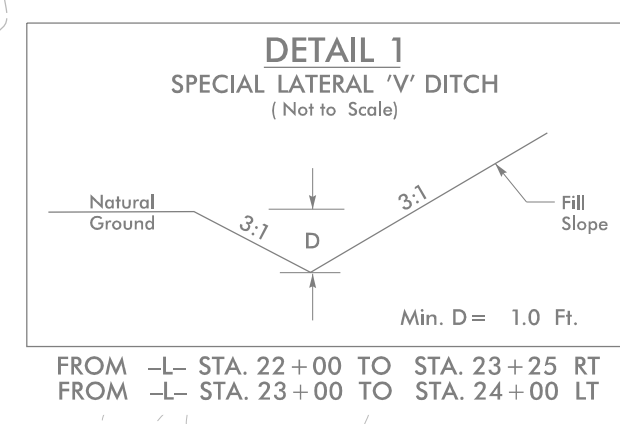
PI Sta 14+98.41
Δ = 3' 02' 26.1" (LT)
D = 6' 21' 58.3"
L = 47.76'
T = 23.89'
R = 900.00'

PI Sta 16+47.70
Δ = 1' 36' 59.1" (LT)
D = 3' 00' 56.0"
L = 53.60'
T = 26.80'
R = 1,900.00'

PI Sta 24+71.02
Δ = 2' 24' 30.1" (RT)
D = 0' 42' 30.9"
L = 339.89'
T = 169.97'
R = 8,086.00'



MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 05



3

PROJECT REFERENCE NO.	SHEET NO.
80071	EC-5
RW SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PI Sta. 27+26.67
 $\Delta = 4' 27' 15.2" (RT)$
 $D = 3' 54' 01.2"$
 $L = 114.20'$
 $T = 57.13'$
 $R = 1,469.00'$
 $SE = .08$

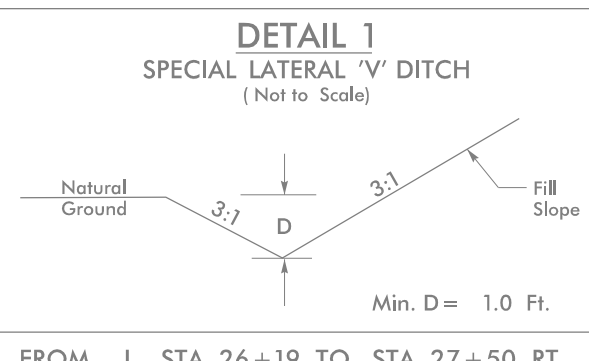
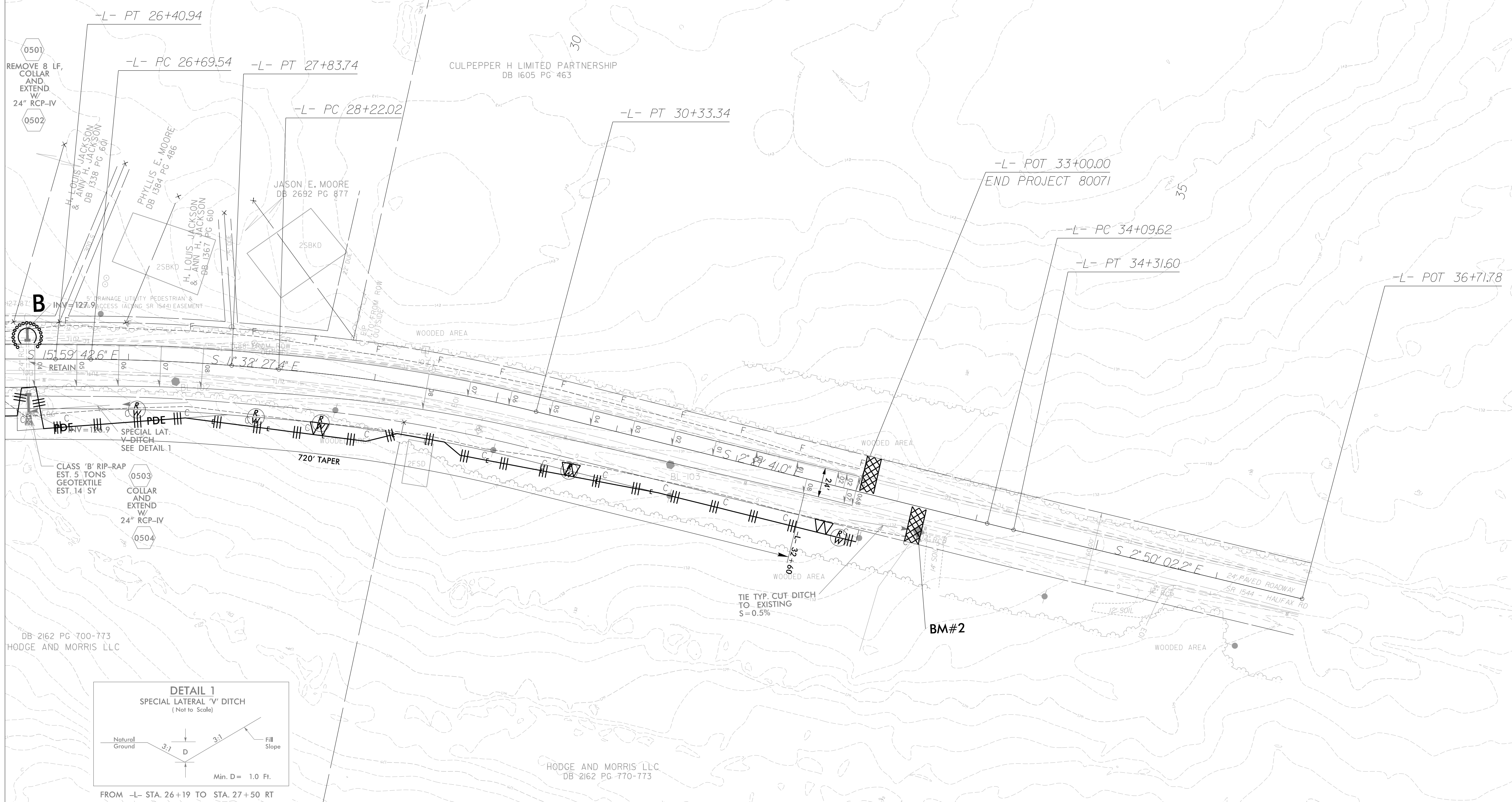
PI Sta. 29+27.91
 $\Delta = 9' 10' 46.5" (RT)$
 $D = 4' 20' 38.0"$
 $L = 211.32'$
 $T = 105.89'$
 $R = 1,319.00'$
 $SE = .08$

PI Sta. 34+20.61
 $\Delta = 0' 28' 21.3" (LT)$
 $D = 2' 08' 59.8"$
 $L = 21.98'$
 $T = 10.99'$
 $R = 2,665.00'$



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

MATCHLINE -L- STA. 26+00.00
SEE SHEET 04



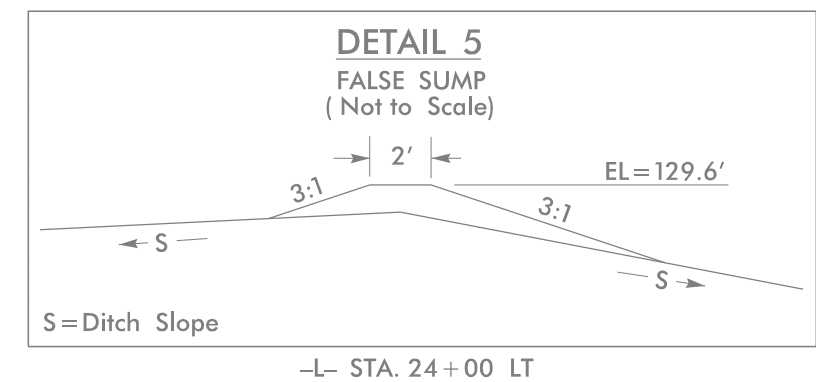
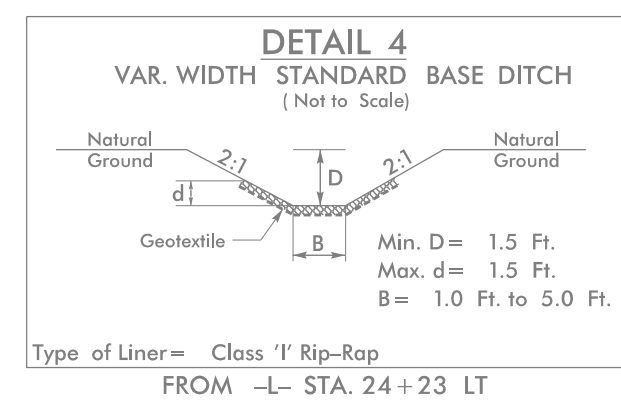
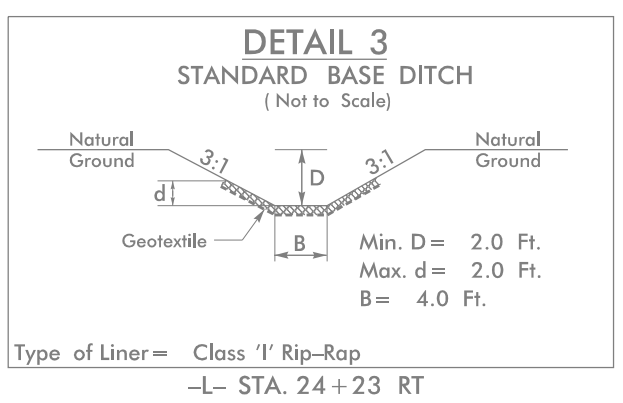
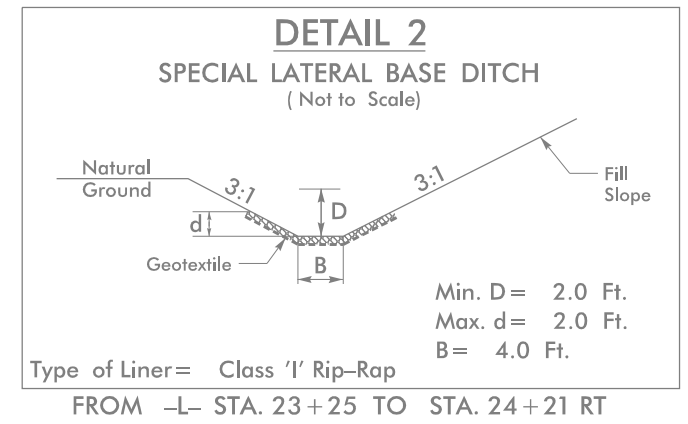
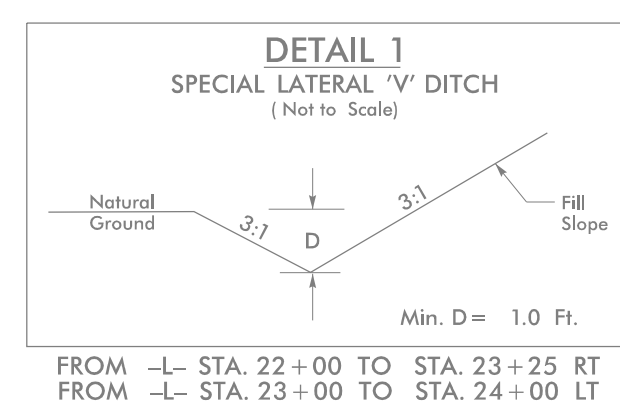
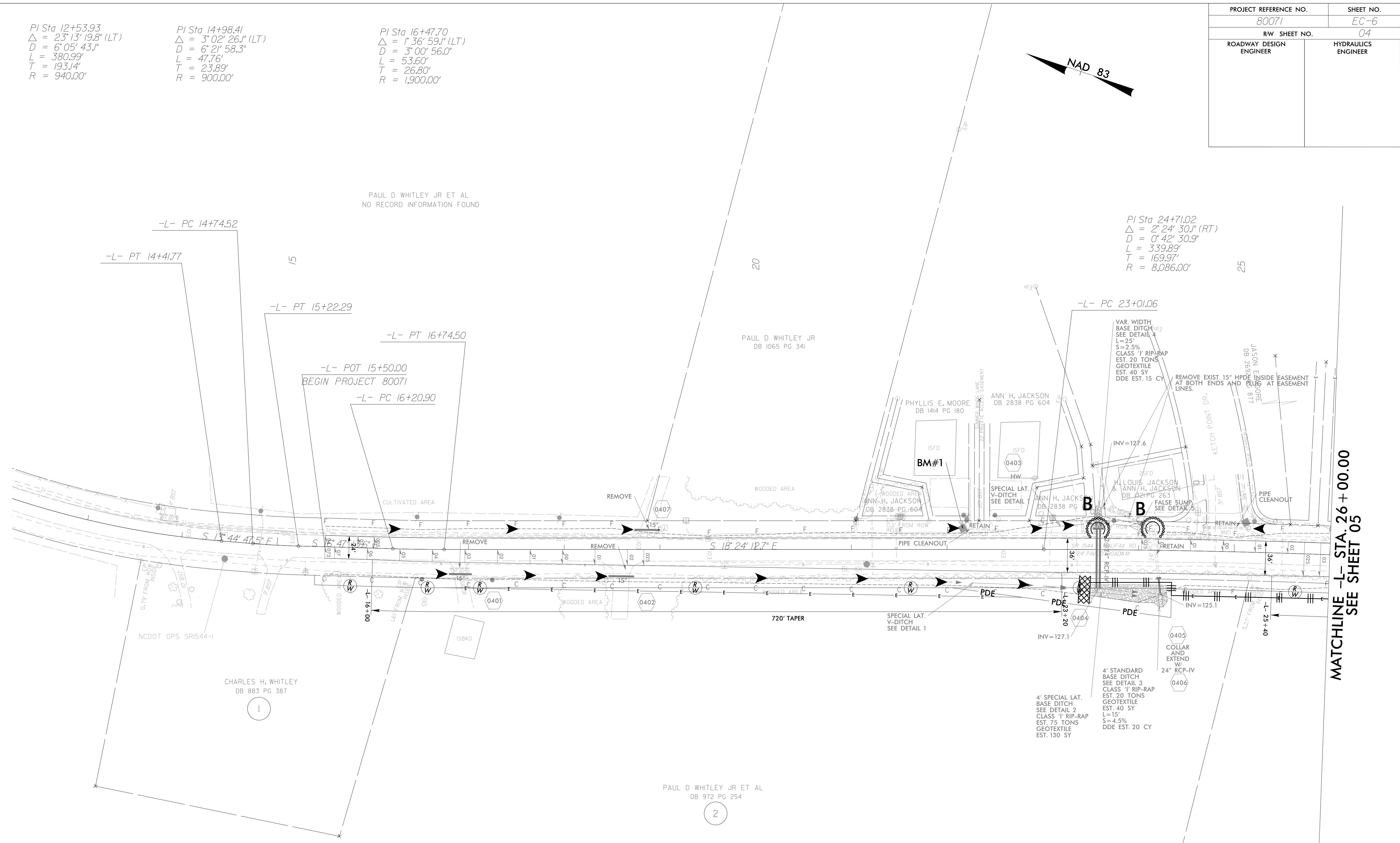
PROJECT REFERENCE NO.	SHEET NO.
80071	EC-6
RW SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PI Sta 12+53.93
 $\Delta = 23^{\circ}13'19.8"$ (LT)
D = 6'05'43.1"
L = 380.99'
T = 193.14'
R = 940.00'

PI Sta 14+98.41
 $\Delta = 3^{\circ}02'26.1"$ (LT)
D = 6'21'58.3"
L = 47.76'
T = 23.89'
R = 900.00'

PI Sta 16+47.70
 $\Delta = 1^{\circ}36'59.1"$ (LT)
D = 3'00'56.0"
L = 53.60'
T = 26.80'
R = 1,900.00'

PI Sta 24+71.02
 $\Delta = 2^{\circ}24'30.1"$ (RT)
D = 0'42'30.9"
L = 339.89'
T = 169.97'
R = 8,086.00'



MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 05

PROJECT REFERENCE NO.	SHEET NO.
80071	EC-7
RW SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

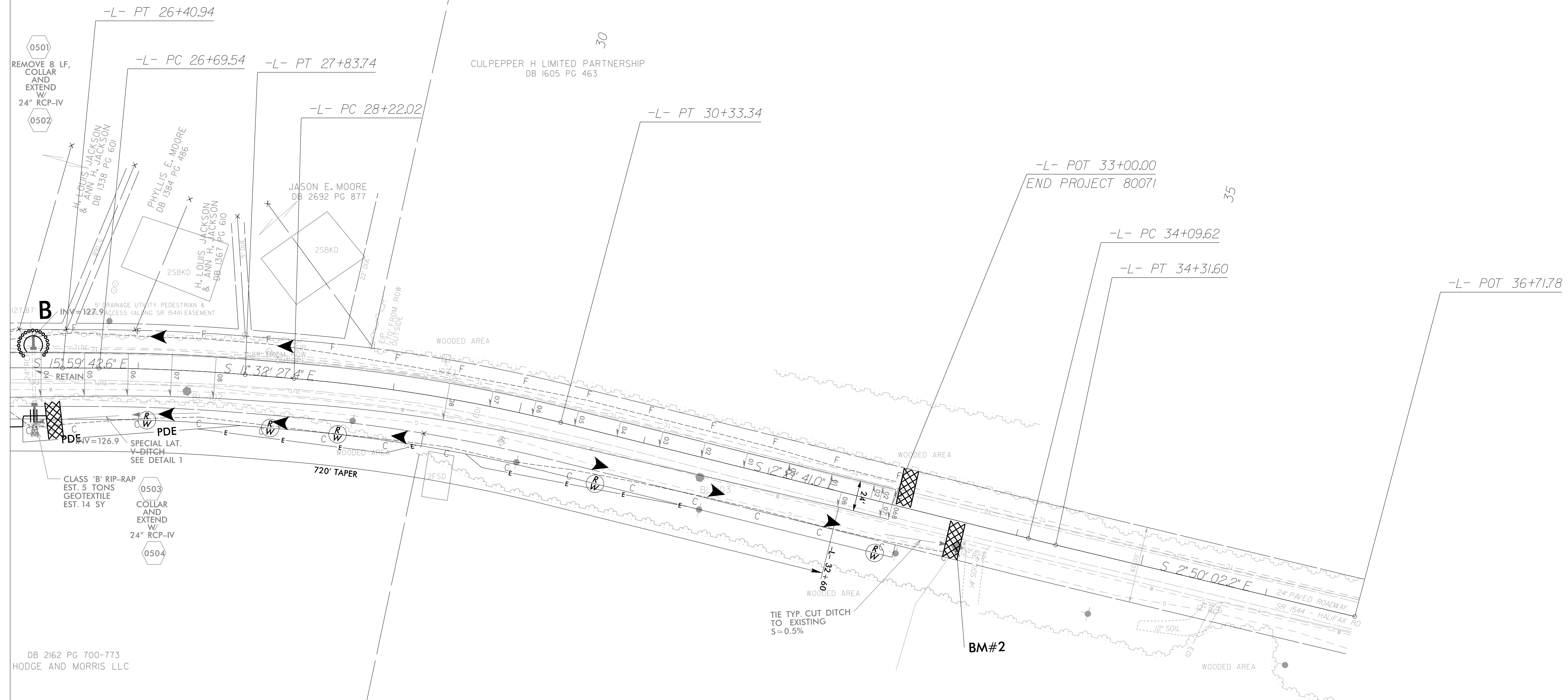
PI Sta 27+26.67
 $\Delta = 4' 27' 15.2''$ (RT)
 $D = 3' 54' 01.2''$
 $L = 114.20'$
 $T = 57.13'$
 $R = 1,469.00'$
 $SE = 08$

PI Sta 29+27.91
 $\Delta = 9' 10' 46.5''$ (RT)
 $D = 4' 20' 38.0''$
 $L = 211.32'$
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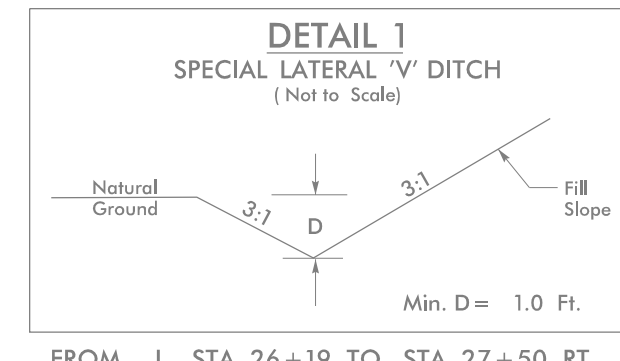
PI Sta 34+20.61
 $\Delta = 0' 28' 21.3''$ (LT)
 $D = 2' 08' 59.8''$
 $L = 21.98'$
 $T = 10.99'$
 $R = 2,665.00'$



MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 04



REMOVE 8 LF. COLLAR AND EXTEND W/ 24" RCP-IV (0501)
 COLLAR AND EXTEND W/ 24" RCP-IV (0502)
 CLASS 'B' RIP-RAP EST. 5 TONS GEOTEXTILE EST. 14 SY
 COLLAR AND EXTEND W/ 24" RCP-IV (0503)
 COLLAR AND EXTEND W/ 24" RCP-IV (0504)



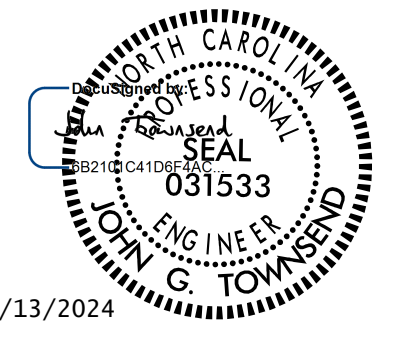
HODGE AND MORRIS LLC
DB 2162 PG 770-773

3

3

BL-104

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO.	SHEET NO.
80071	SGN - 1
APPROVED: _____	
DATE: _____	
SEAL	
	
2/13/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SIGNING PLAN
NASH COUNTY

LOCATION: SR-1544 (HALIFAX ROAD) AT KETCH POINT SUBDIVISION

T.I.P.: 80071

CONTRACT: DD00454

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	18.00	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	27	L.F.
4102000000	904	SIGN ERECTION, TYPE E	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	2	EA.

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

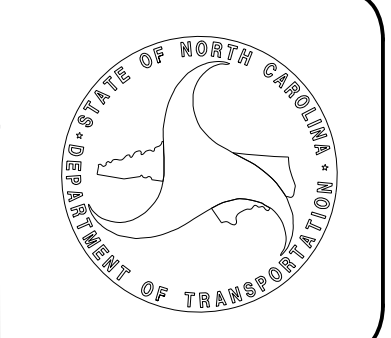
GENERAL NOTES

- . 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 "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

INDEX

SHEET NO.	DESCRIPTION
SGN-1	TITLE SHEET
SGN-2-3	EXISTING AND PROPOSED SIGNS

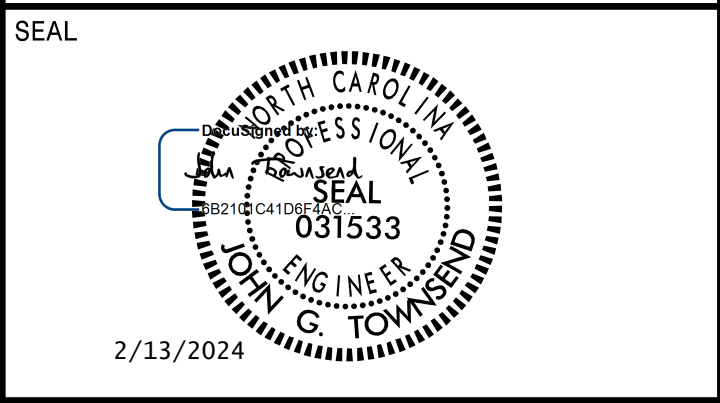
PLAN SUBMITTED TO:
Keith Eason, PE, Project Engineer



PLAN PREPARED BY: VHB Engineering NC, P.C.
John Townsend, PE Project Engineer



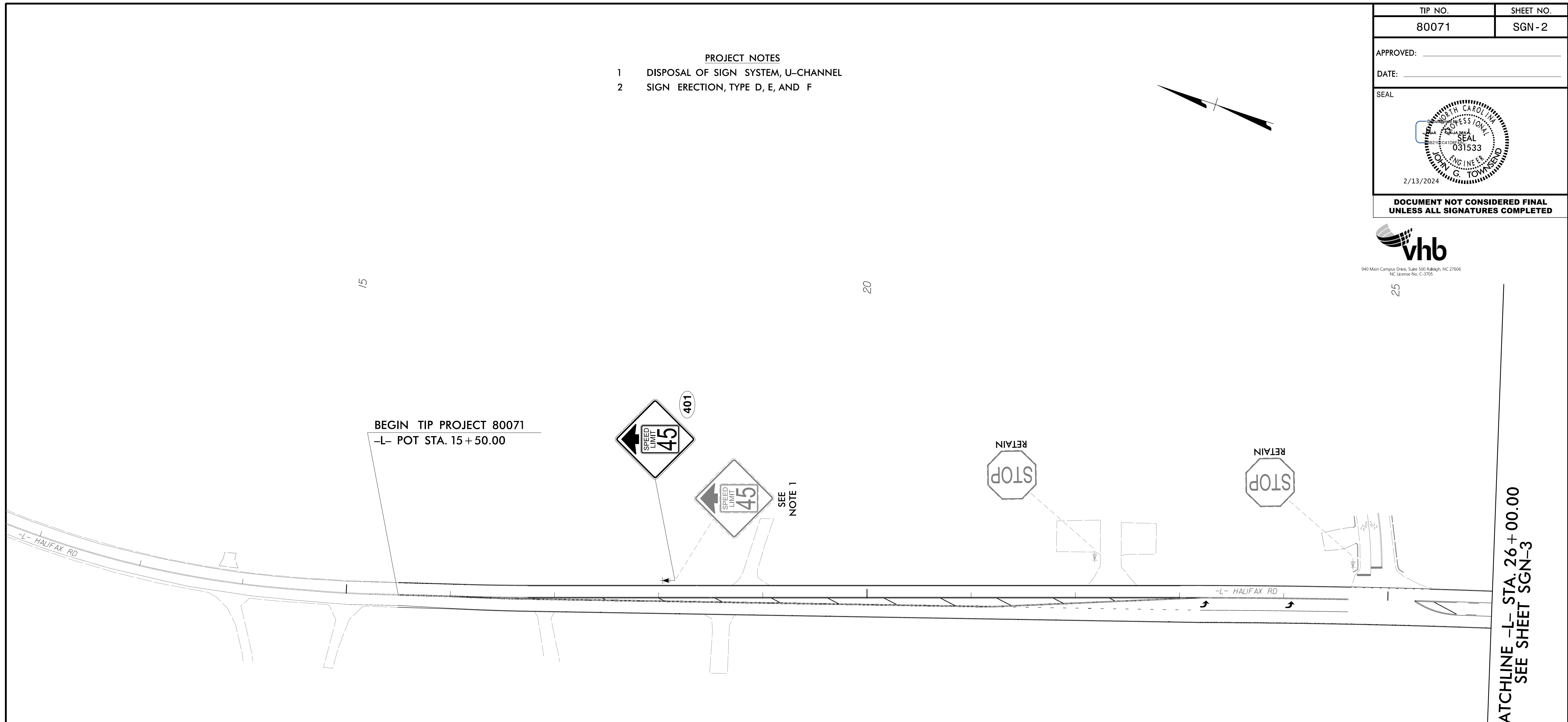
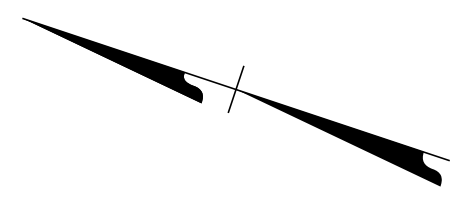
APPROVED: _____
 DATE: _____


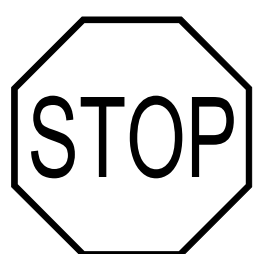


**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



- PROJECT NOTES**
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
 - SIGN ERECTION, TYPE D, E, AND F



<p>401 QUANTITY REQ'D <u> 1 </u></p>  <p>36 X 36 W3-5</p> <p>ONE "U" POST PER SIGN</p>	<p>402 QUANTITY REQ'D <u> 1 </u></p>  <p>36 X 36 R1-1</p> <p>ONE "U" POST PER SIGN</p>
<p>TYPE "E" SIGNS</p>	

**EXISTING AND PROPOSED
 SIGNS**

TIP NO.	SHEET NO.
80071	SGN-3

APPROVED: _____
DATE: _____

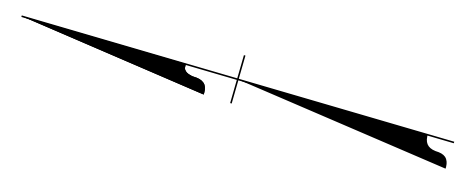
SEAL

2/13/2024

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

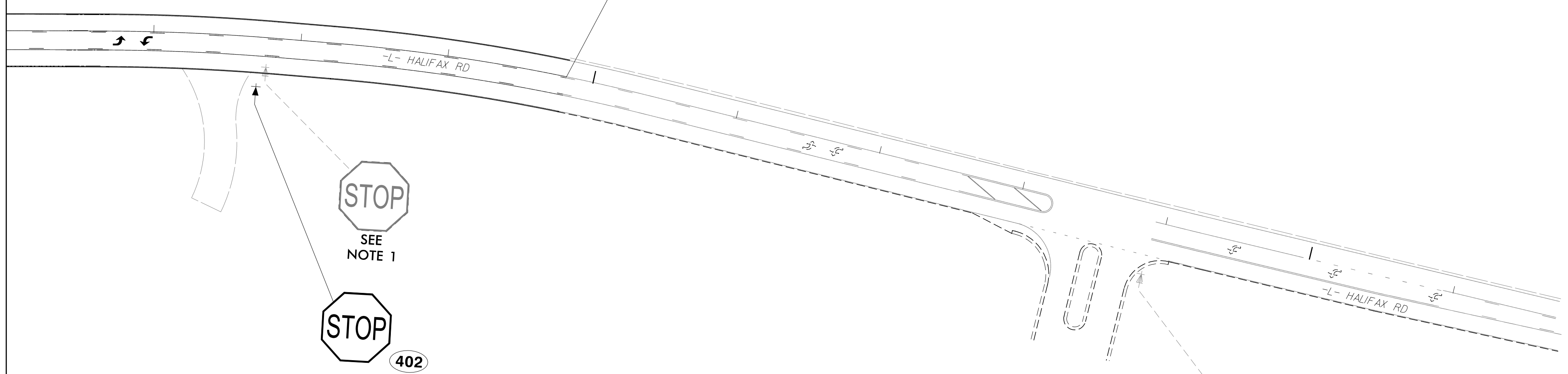


- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
 - 2 SIGN ERECTION, TYPE D, E, AND F



MATCHLINE -L- STA. 26 + 00.00
SEE SHEET SGN-2

END TIP PROJECT 80071
-L- POC STA. 29 + 81.50



**EXISTING AND PROPOSED
SIGNS**

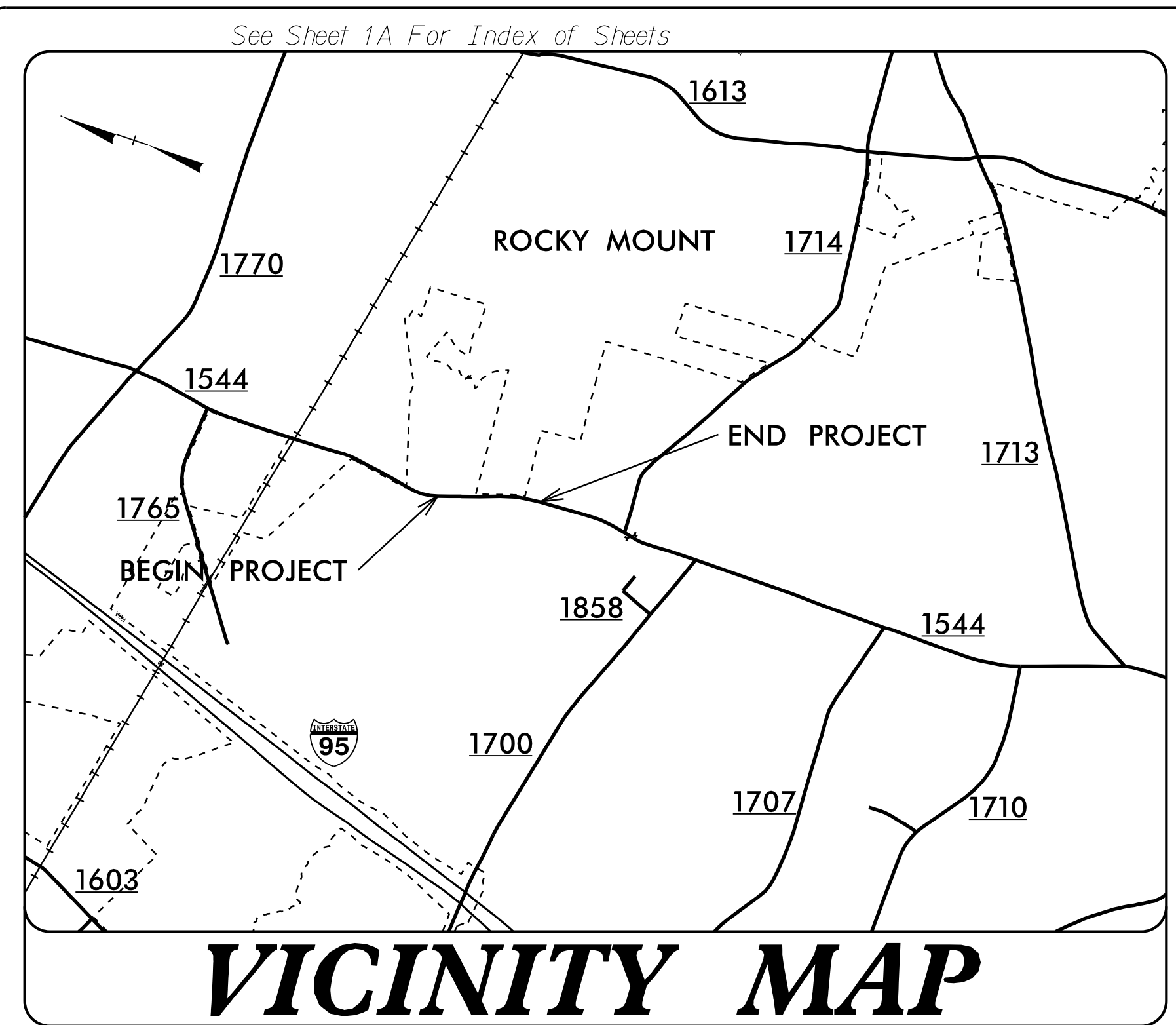
2/3/2024
R:\Traffic\Signing\CADD\Signing Layout Plans\80071_sgn_psh_03.dgn
User:jtownsend

09/08/99

09-MAY-2024 14:12
C:\Users\swaddock\OneDrive\80071\UB0_Upload to S drive\80071\UB0_Plan Set\80071-ddc4_tsh.dgn
swaddock AT DIV04-350182L

TIP PROJECT: 80071

CONTRACT:



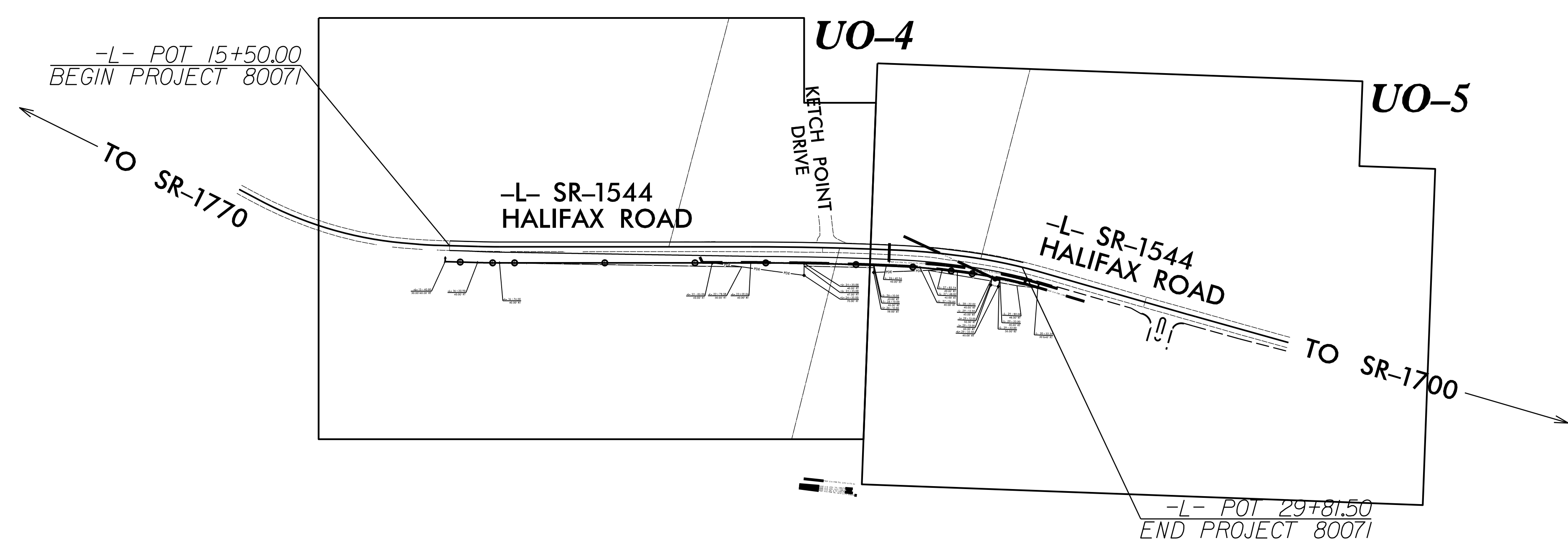
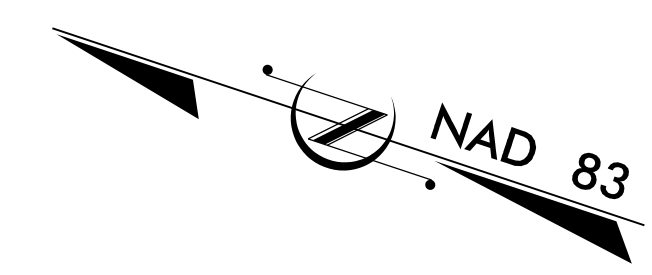
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	80071	UO-1	

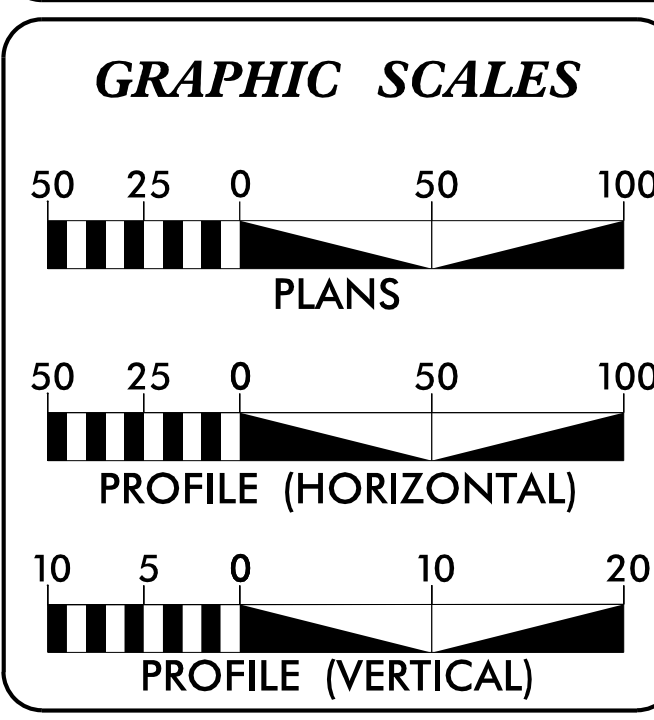
UTILITIES BY OTHERS PLANS
NASH COUNTY

LOCATION: SR 1544 (HALIFAX ROAD) AT KETCH POINT SUBDIVISION.

TYPE OF WORK: UTILITIES BY OTHERS



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



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UBO-01	TITLE SHEET
UBO-04	UBO PLAN SHEET
UBO-05	UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

A. CORM GAS - CITY OF ROCKY MOUNT GAS
B. CORM POWER - CITY OF ROCKY MOUNT POWER
C. CORM GAS - CITY OF ROCKY MOUNT GAS
D. BRIGHTSPEED - TELECOMMUNICATIONS
E. OPTIMUM - TELECOMMUNICATIONS

Prepared in the Office of:
DIVISION OF HIGHWAYS
Division 4 DDC
509 Ward Blvd., Wilson, NC 27895

KYLE PLEASANT PROJECT UTILITIES ENGINEER

DIVISION OF HIGHWAYS
DIVISION 4
509 Ward Blvd., Wilson, NC 27895

ADDISON GAINEX, PE DIVISION CONTACT #1

PI Sta 12+53.93
 $\Delta = 23' 13" 19.8" (LT)$
 $D = 6' 05" 43.1"$
 $L = 380.99'$
 $T = 193.14'$
 $R = 940.00'$

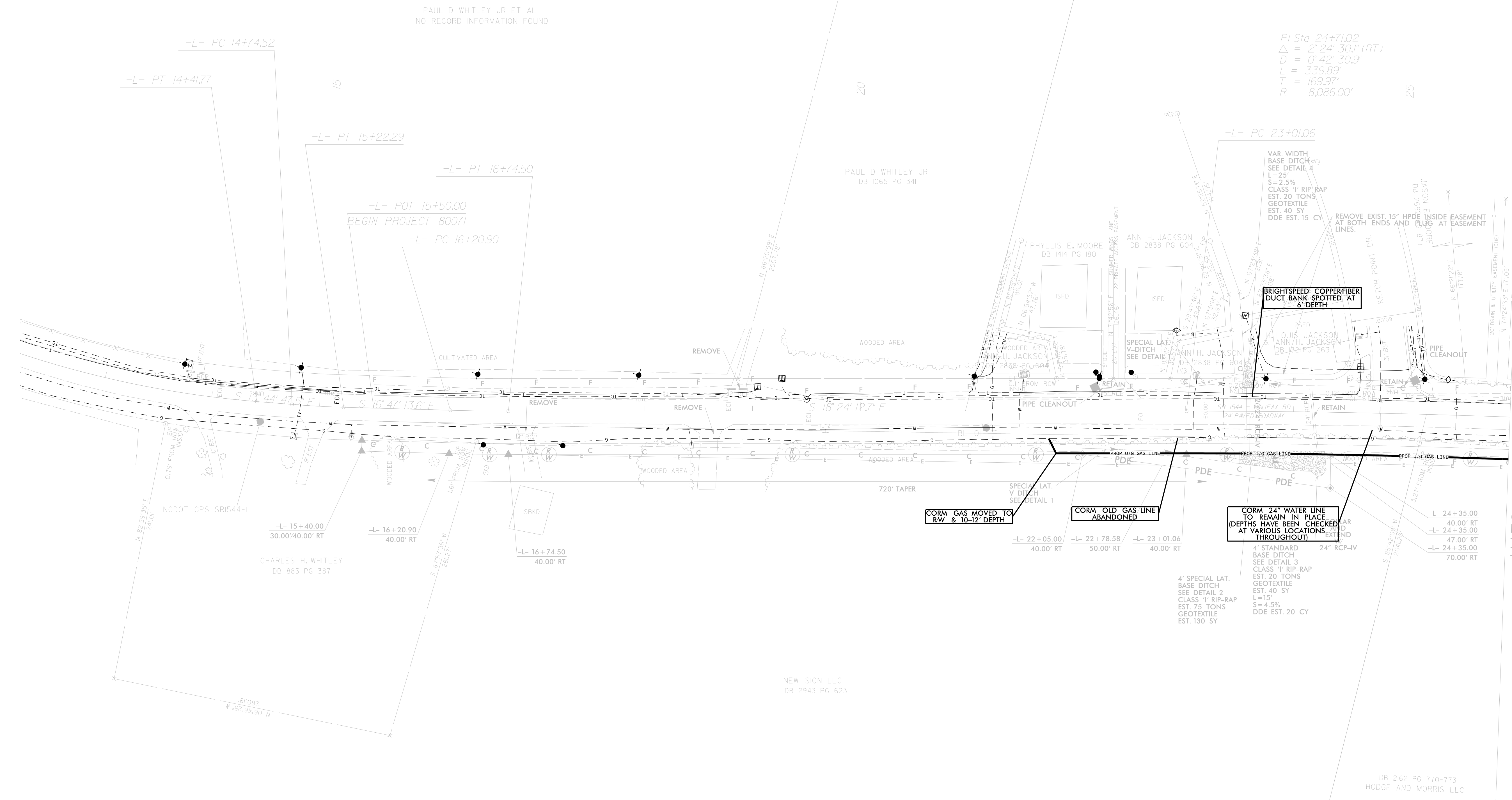
PI Sta 14+98.41
 $\Delta = 3' 02" 26.1" (LT)$
 $D = 6' 21" 58.3"$
 $L = 47.76'$
 $T = 23.89'$
 $R = 900.00'$

PI Sta 16+47.70
 $\Delta = 1' 36" 59.1" (LT)$
 $D = 3' 00" 56.0"$
 $L = 53.60'$
 $T = 26.80'$
 $R = 1,900.00'$

PI Sta 24+71.02
 $\Delta = 2' 24" 30.1" (RT)$
 $D = 0' 42" 30.9"$
 $L = 339.89'$
 $T = 169.97'$
 $R = 8,086.00'$



REVISIONS



MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 05

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

09-MAY-2024 14:41
 C:\Users\swheg\OneDrive\Documents\80071\Ubo_Upload to S...
 8/17/99
 \Private\80071\Ubo Plan Set\80071_ddc4_psh_04.dgn

PI Sta 27+26.67
 $\Delta = 4' 27' 15.2''$ (RT)
 $D = 3' 54' 01.2''$
 $L = 114.20'$
 $T = 57.13'$
 $R = 1,469.00'$
 $SE = 08$

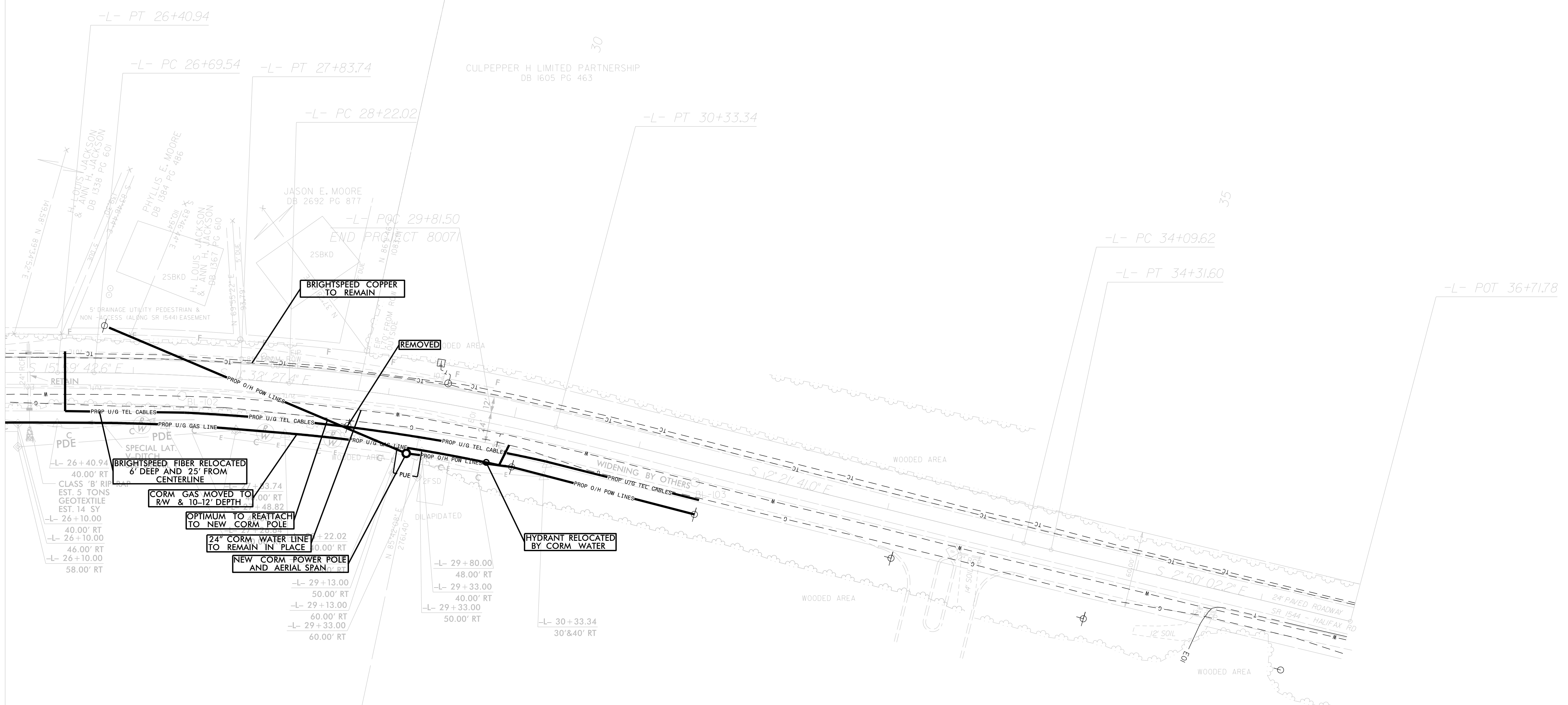
PI Sta 29+27.91
 $\Delta = 9' 10' 46.5''$ (RT)
 $D = 4' 20' 38.0''$
 $L = 211.32'$
 $T = 105.89'$
 $R = 1,319.00'$
 $SE = 08$

PI Sta 34+20.61
 $\Delta = 0' 28' 21.3''$ (LT)
 $D = 2' 08' 59.8''$
 $L = 21.98'$
 $T = 10.99'$
 $R = 2,665.00'$



MATCHLINE -L- STA. 26 + 00.00
SEE SHEET 04

REVISIONS



-L- 26+40.94
 40.00' RT
 CLASS 'B' RIF
 EST. 5 TONS
 GEOTEXTILE
 EST. 14 SY
 -L- 26+10.00
 40.00' RT
 -L- 26+10.00
 46.00' RT
 -L- 26+10.00
 58.00' RT

-L- 29+13.00
 40.00' RT
 -L- 29+13.00
 50.00' RT
 -L- 29+13.00
 40.00' RT
 -L- 29+33.00
 60.00' RT
 -L- 29+33.00
 60.00' RT

-L- 29+80.00
 48.00' RT
 -L- 29+33.00
 50.00' RT
 -L- 29+33.00
 40.00' RT
 -L- 29+33.00
 50.00' RT

-L- 30+33.34
 30' & 40' RT

DB 2162 PG 770-773
 HODGE AND MORRIS LLC

HODGE AND MORRIS LLC
 DB 2162 PG 770-773

3

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

09-MAY-2024 16:59 C:\Users\jmorris\OneDrive\Desktop\1100_Upload to S...
 8-03-2023 REVISION TO EASEMENTS & RW ON PARCEL 3
 F:\ve\80071\1100_Plan_Sett\80071_dtd4_esh_05.dwg

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
80071	X-1

Approximate quantities only. Unclassified 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

CROSS-SECTION INDEX

CROSS SECTION INDEX
CROSS SECTION SUMMARY
LINE -L- (14+50 - 32+00)

SHEET NUMBERS

X-1
X-1
X-2 THRU X-10

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

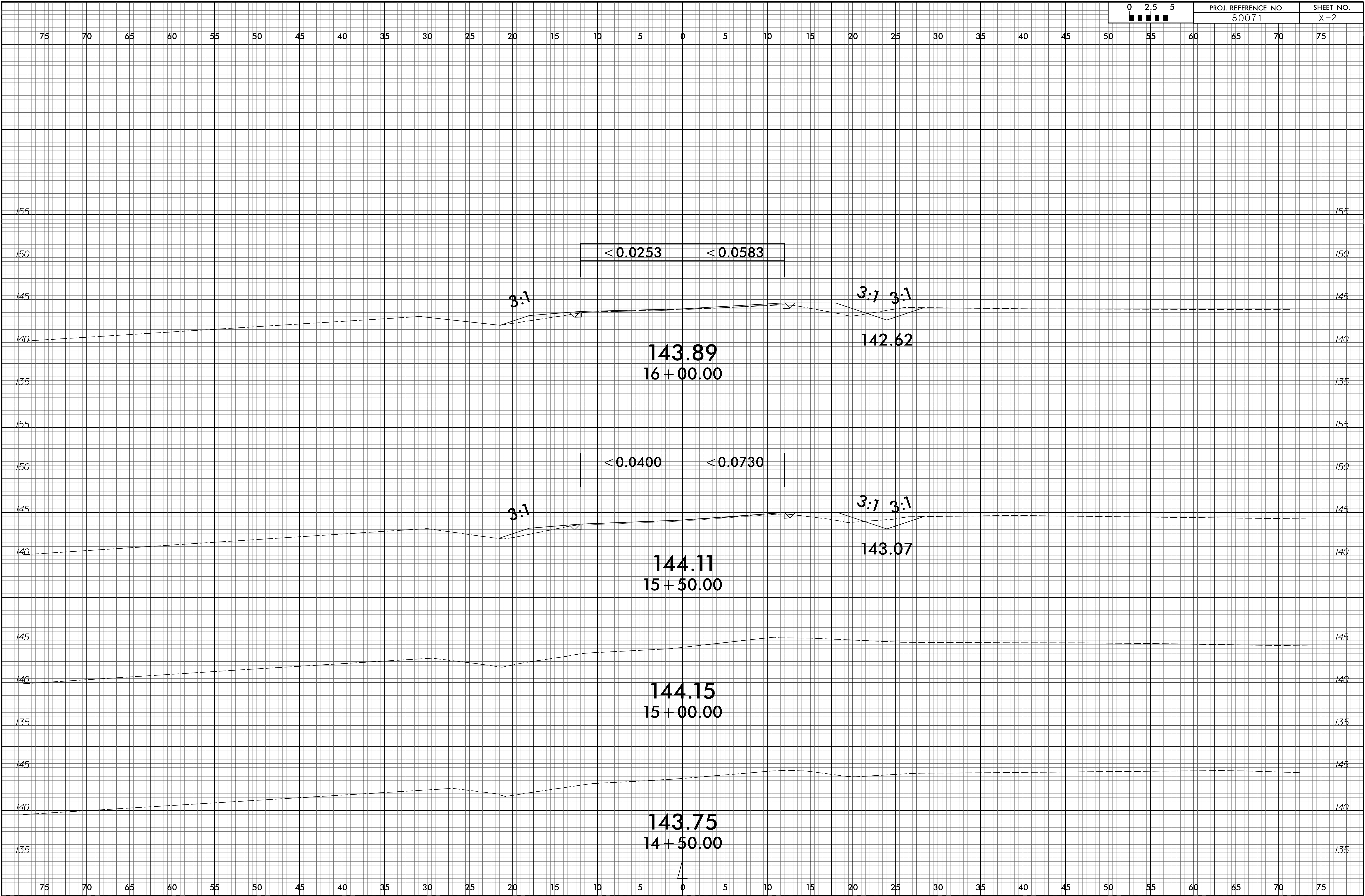
CROSS-SECTION SUMMARY

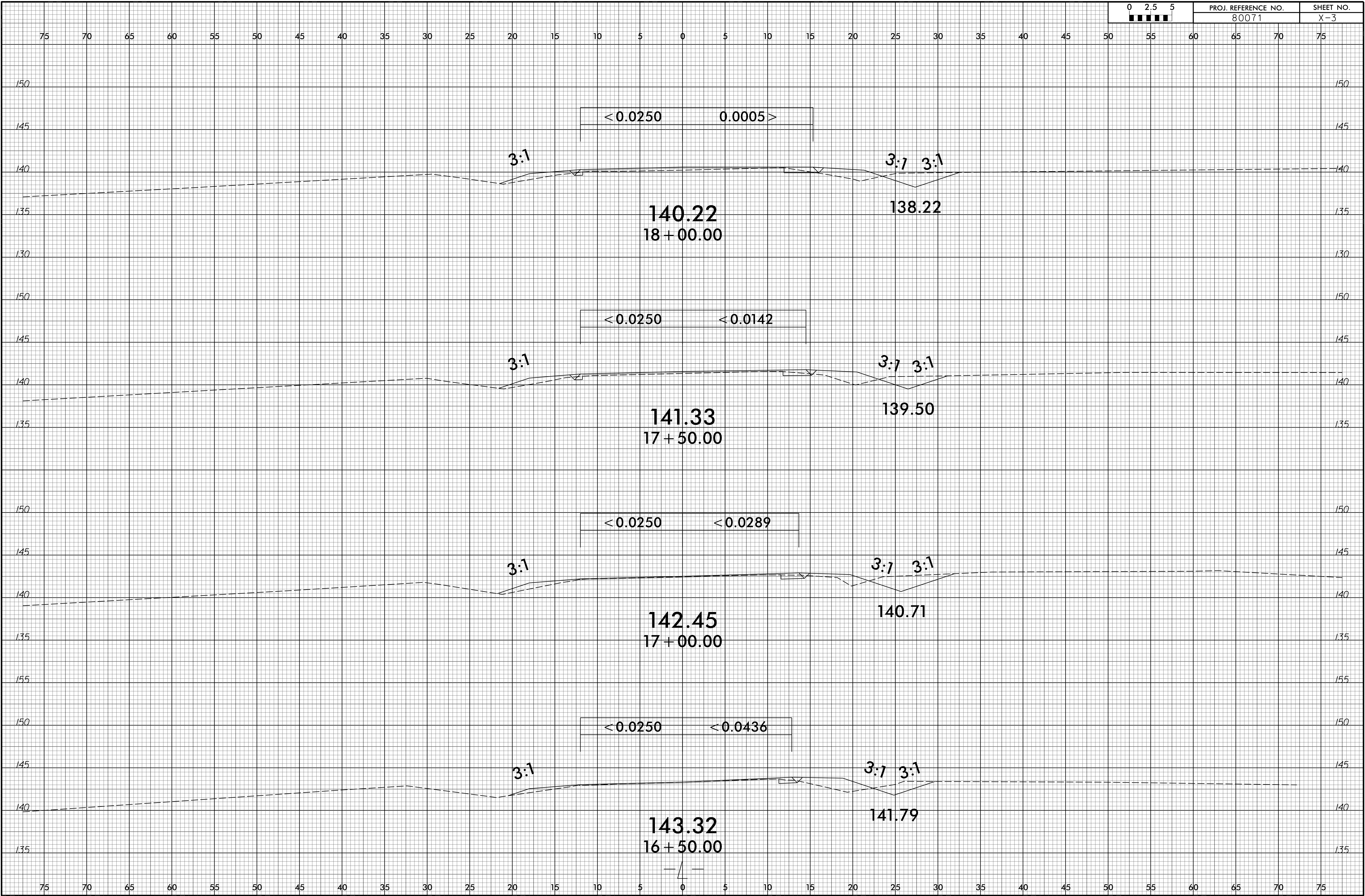
STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
L			
15+50.00			
16+00.00	9	17	
16+50.00	10	18	
17+00.00	16	17	
17+50.00	17	17	
18+00.00	16	19	
18+50.00	19	14	
19+00.00	20	32	
19+50.00	17	34	
20+00.00	18	16	
20+50.00	17	17	
21+00.00	16	16	
21+50.00	16	14	
22+00.00	20	13	
22+50.00	20	14	
23+00.00	15	21	
23+50.00	33	36	
24+00.00	49	57	
24+50.00	23	58	
25+00.00		39	
25+50.00		35	
26+00.00	1	39	
26+50.00	9	44	
27+00.00	13	43	
27+50.00	9	30	
28+00.00	32	22	
28+50.00	73	16	
29+00.00	107	10	
29+50.00	113	5	
29+81.50	59	2	

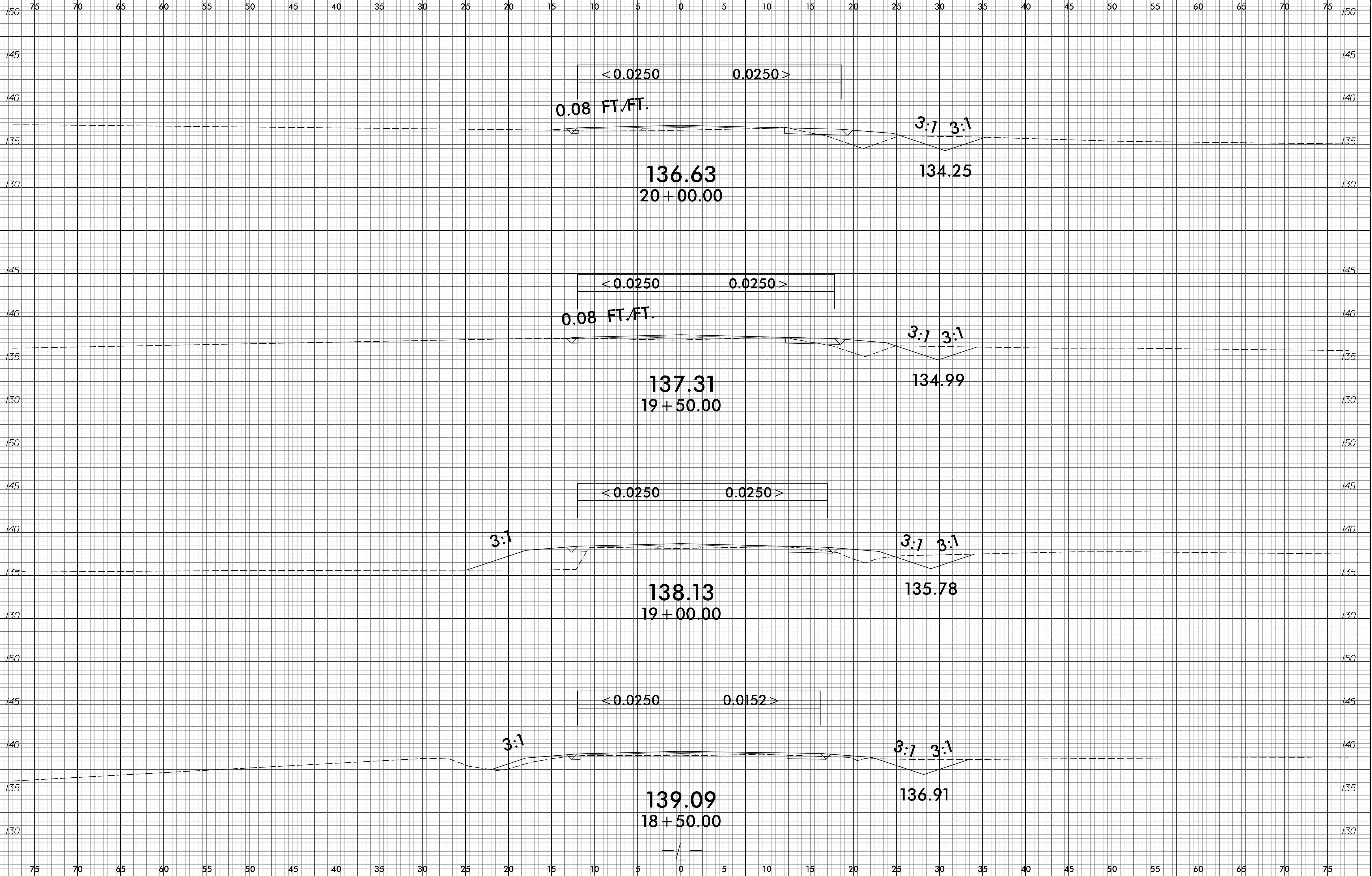
STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

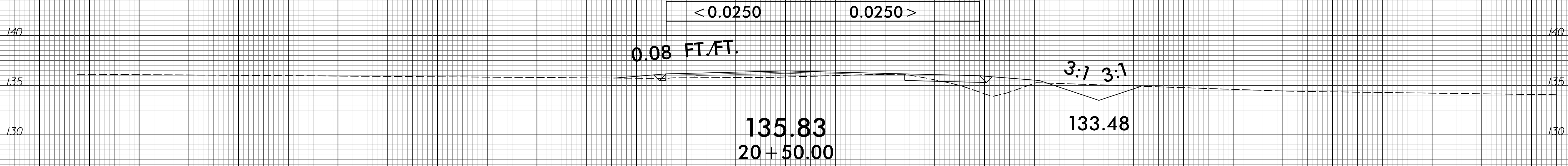
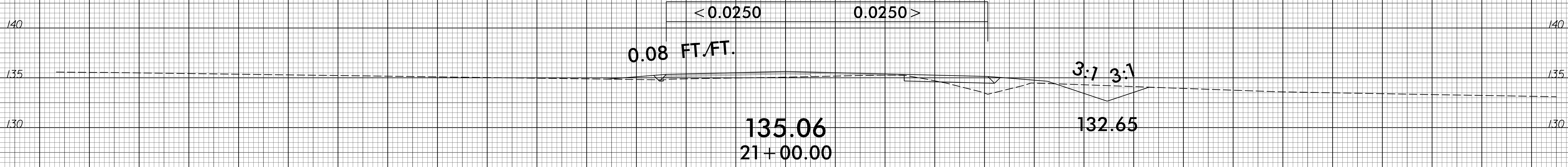
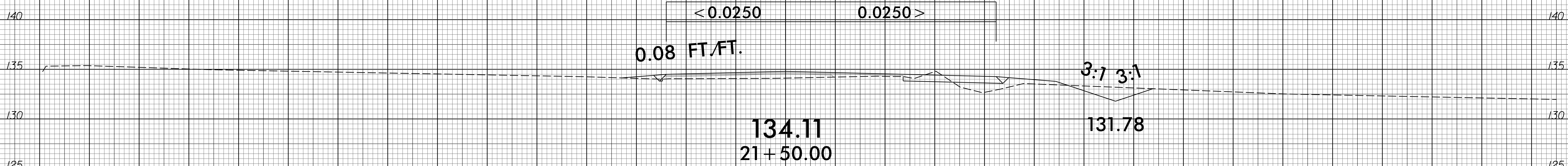
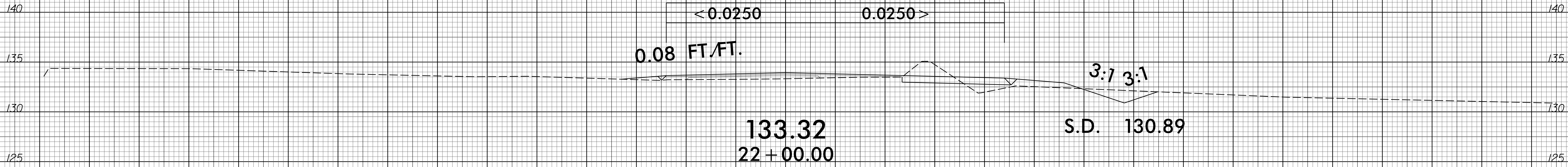
STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	



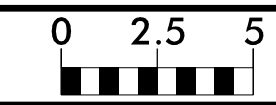




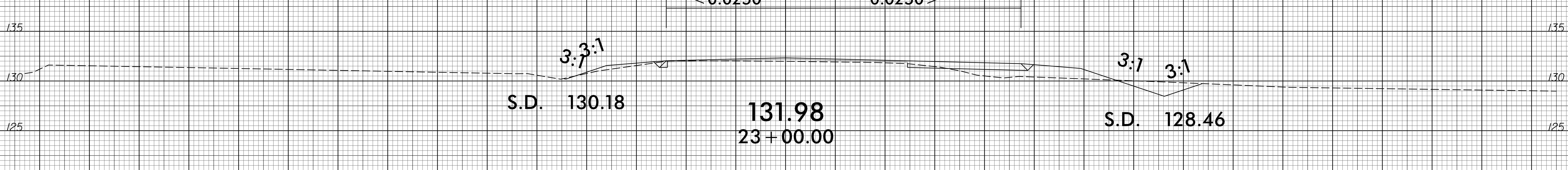
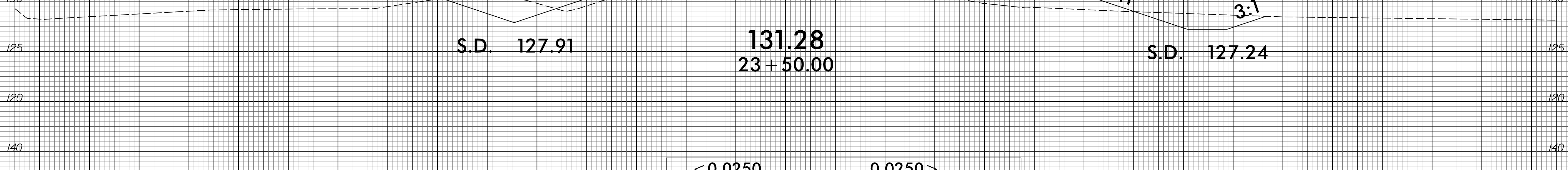
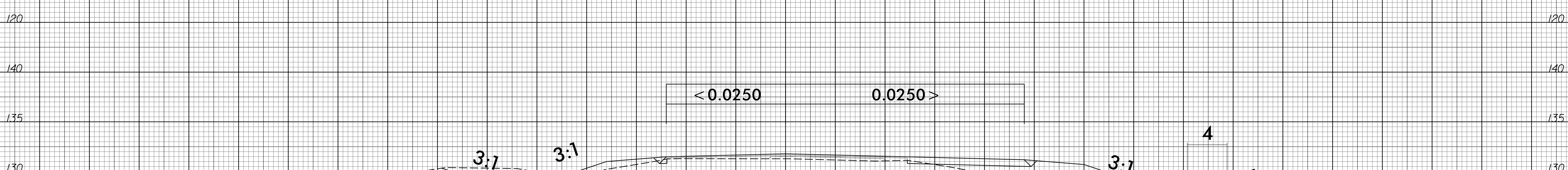
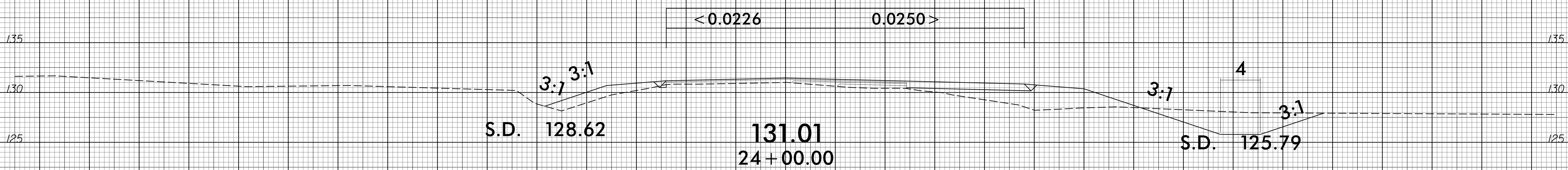
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 140



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 140

