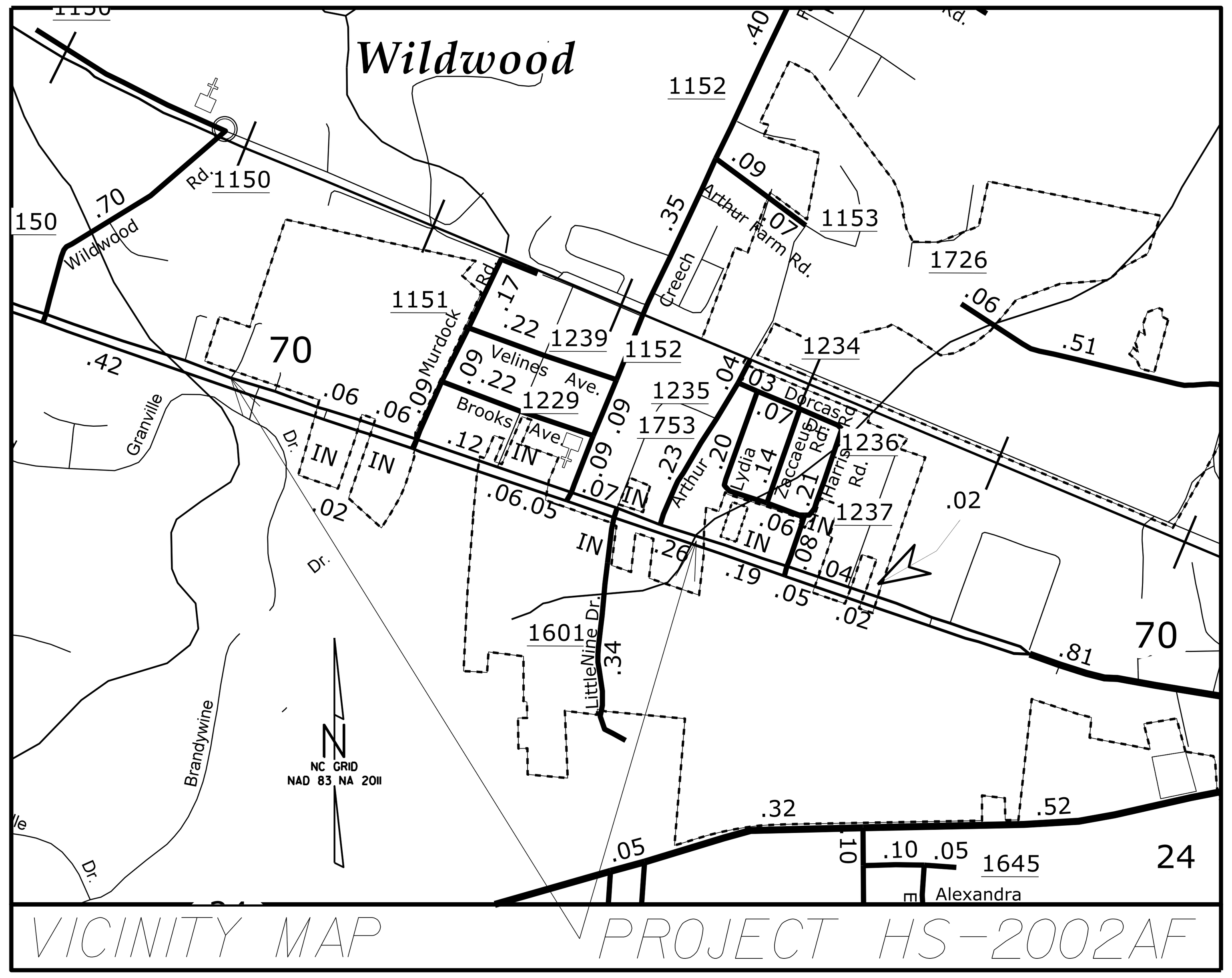
CONTRACT: DB00606

TIP PROJECT: HS-2002AF



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CARTERET COUNTY

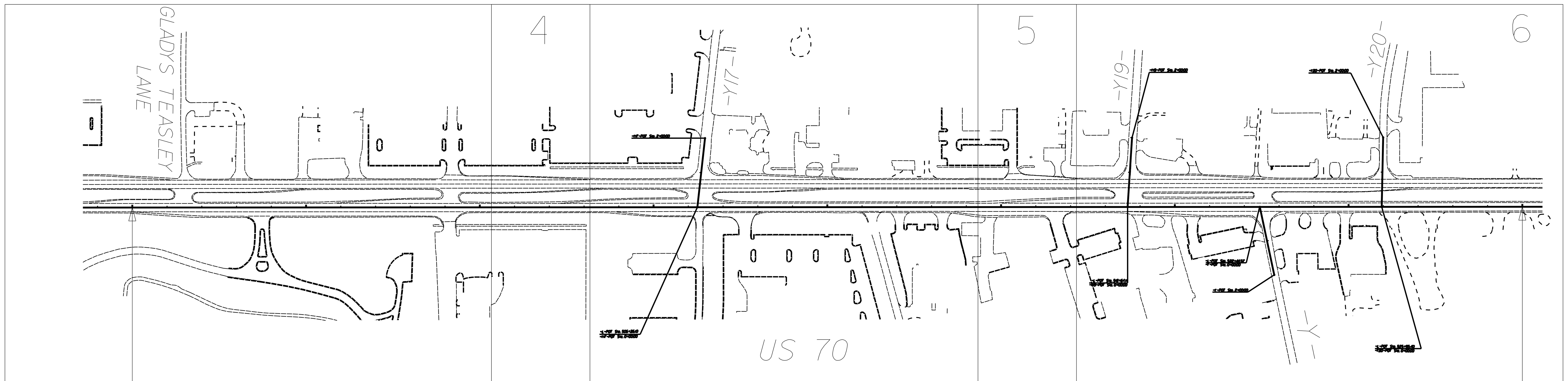
LOCATION: ***US 70 BETWEEN GLADYS TEASLEY LANE AND SR 1753 (ARTHUR FARM ROAD) NEAR WILDWOOD***

TYPE OF WORK: ***CONSTRUCT REDUCED CONFLICT INTERSECTION INCLUDING THE MODIFICATION OF FIVE (5) FULL MOVEMENT MEDIAN OPENINGS***

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2002AF	1	39

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49300.1.35	4930007	PE
49300.2.19	4930007	UTILITY
49300.3.35	4930007	CONST.

NC GRID
NAD 83 NA 2011



-L-STA.490+00.00
BEGIN PROJECT
HS-2002AF

-L-STA.530+00.00
END PROJECT
HS-2002AF

See Sheet 1A For Index of Sheets

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

DESIGN DATA

ADT 2024 = 31,137
ADT 2054 = 31,781
K = 10 %
D = 60 %
T = 3% % *
V = 50 MPH
* TTST =1% DUAL 2%
FUNC CLASS = MAJOR COLLECTOR SUBREGIONAL TIER

PROJECT LENGTH

PROJECT HS-2002AF LENGTH = 0.757 MI

Prepared In the Office of:

DIVISION OF HIGHWAYS

1037 WH SMITH BLVD., GREENVILLE, NC 27835

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
JUNE 2025

HEATHER C. LANE, PE
PROJECT ENGINEER

RICH GODLEY
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

DocuSigned by:
Heather C. Lane
A1154E9594D7468...
04/02/2025 P.E.
SIGNATURE:

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

ROADWAY DESIGN ENGINEER

DocuSigned by:
Heather C. Lane
A1154E9594D7468...
04/02/2025 P.E.
SIGNATURE:

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	1A

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1 THRU 2B-6	CONCRETE ISLAND LAYOUT DETAILS
3A	DRAINAGE AND EARTHWORK SUMMARIES
4 THRU 6	PLAN AND PROFILE SHEET
RW02C	SURVEY CONTROL SHEET
TMP-1B	TRAFFIC OPERATIONS PLAN
PMP-1 THRU PMP-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-6	EROSION CONTROL PLANS
UO-1 THRU UO-	UTILITIES BY OTHERS PLANS
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-7	CROSS-SECTIONS

GENERAL NOTES:

2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
REVISED:

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

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

SIDE ROADS:

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

SUBSURFACE 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:

BRIGHTSPEED (FORMALLY CENTURYLINK)
CAROLINA WATER SERVICES
CHARTER COMMUNICATIONS
DUKE ENGERY PROGRESS
MCNC
MOREHEAD CITY
NCDOT
PIEDMONT NATURAL GAS
SEGRA
SPIRIT

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

EFF. 01-16-2024
REV.

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:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
852.01	Concrete Islands

8/17/99

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12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

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

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

- Secondary Horiz and Vert Control Point
- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Exist Permanent Easment 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 — RW
- New Right of Way Line with Pin and Cap — RW
- New Right of Way Line with Concrete or Granite R/W Marker — RW
- New Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- New Control of Access — CA
- Existing Easement Line — E
- New Temporary Construction Easement — E
- New Temporary Drainage Easement — TDE
- New Permanent Drainage Easement — PDE
- New Permanent Drainage / Utility Easement — DUE
- New Permanent Utility Easement — PUE
- New Temporary Utility Easement — TUE
- New Aerial Utility Easement — AUE

ROADS AND RELATED FEATURES:

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

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H–Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

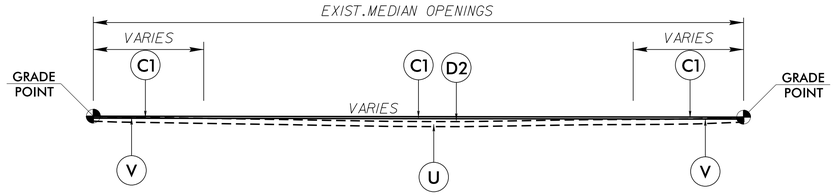
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- 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.

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	PROP. MILLING 0" TO 1.5"

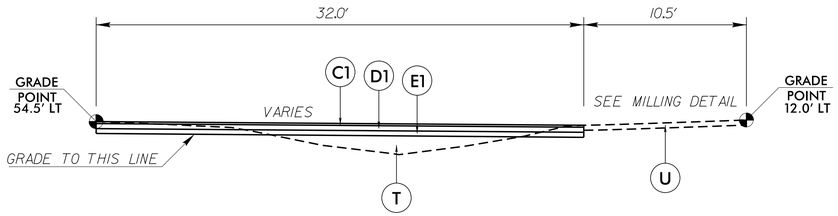
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



MILLING DETAIL

NOTE:
MILLING SHALL BE PREFORMED IN MEDIAN OPENINGS TO SUPPORT A FLUSH FINAL SURFACE TIE IN TO GRADE POINT LOCATIONS

-L-STA. 490+78.89 - STA. 491+93.40
-L-STA. 505+79.87 - STA. 506+87.26
-L-STA. 518+17.47 - STA. 519+47.77
-L-STA. 521+89.04 - STA. 523+07.42



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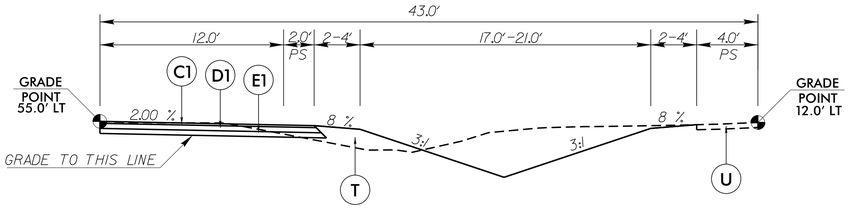
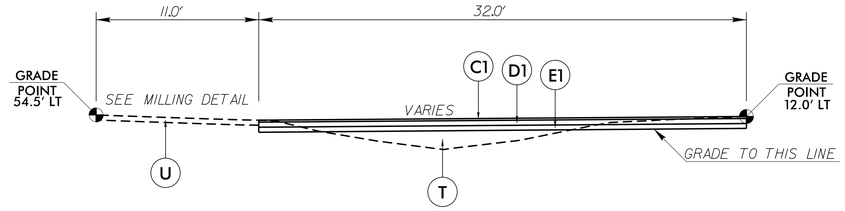
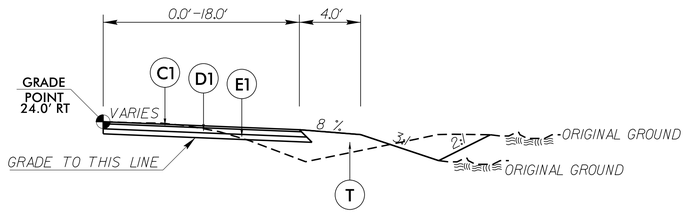


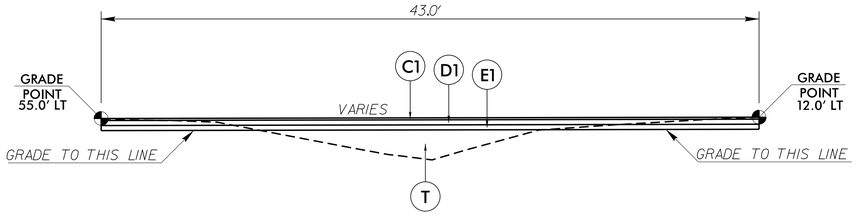
USE TYPICAL SECTION #4
-L-STA. 497+08.80 - STA. 499+50.00 MEDIAN



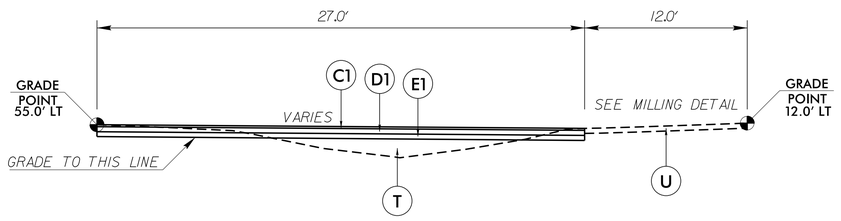
USE TYPICAL SECTION #2
-L-STA. 491+71.19 - STA. 491+93.40 MEDIAN



USE TYPICAL SECTION #5
-L-STA. 491+63.46 - STA. 492+17.83 BULB OUT
-L-STA. 496+50.38 - STA. 497+53.22 BULB OUT



USE TYPICAL SECTION #3
-L-STA. 496+10.37 - STA. 497+08.80 MEDIAN



USE TYPICAL SECTION #6
-L-STA. 505+79.87 - STA. 505+99.61 MEDIAN

DRAWING NOT TO SCALE
SEE X-SECTIONS

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2A-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE
02/25/2025

PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE
02/25/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99

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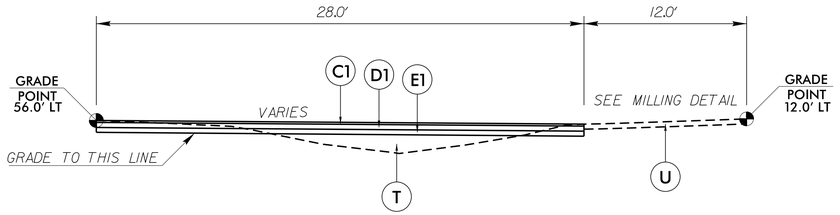
$$USERNAME$$

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	PROP. MILLING 0" TO 1.5"

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



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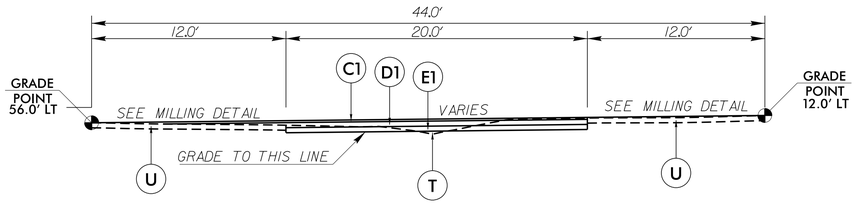

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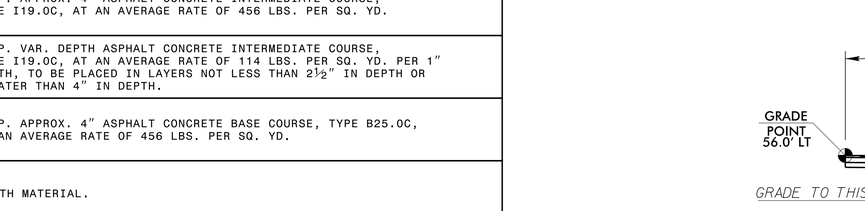

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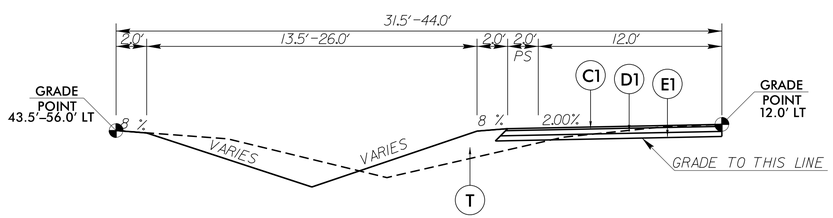
-L-STA.521+89.04 - STA.522+28.72 MEDIAN
-L-STA.522+79.00 - STA.523+07.42 MEDIAN



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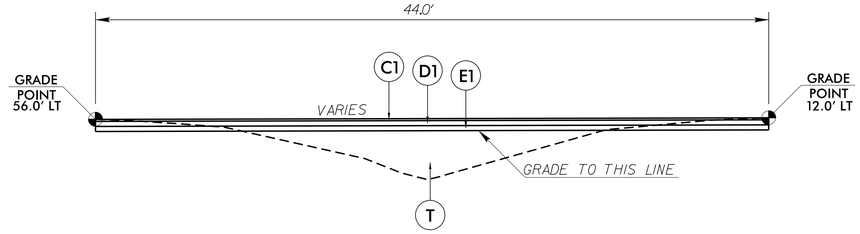

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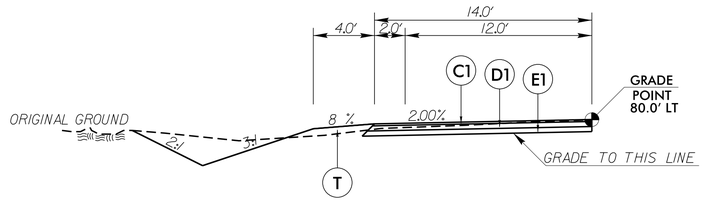
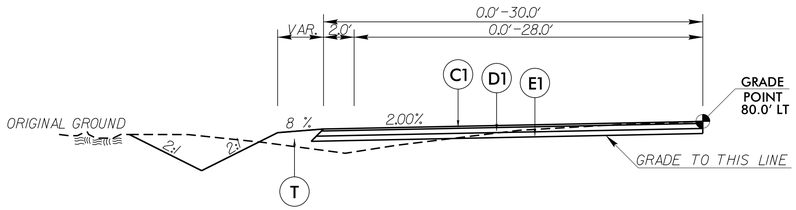
-L-STA.528+11.49 - STA.529+10.02 MEDIAN



USE TYPICAL SECTION #12
-L-STA.526+58.39 - STA.527+40.03 RT TL



USE TYPICAL SECTION #13
-L-STA.527+40.03 - STA.528+81.19 BULB OUT

DRAWING NOT TO SCALE
SEE X-SECTIONS

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2A-2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LINE
Digitally signed by: HEATHER C. LINE
02/25/2025

PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LINE
Digitally signed by: HEATHER C. LINE
02/25/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS 8/17/99

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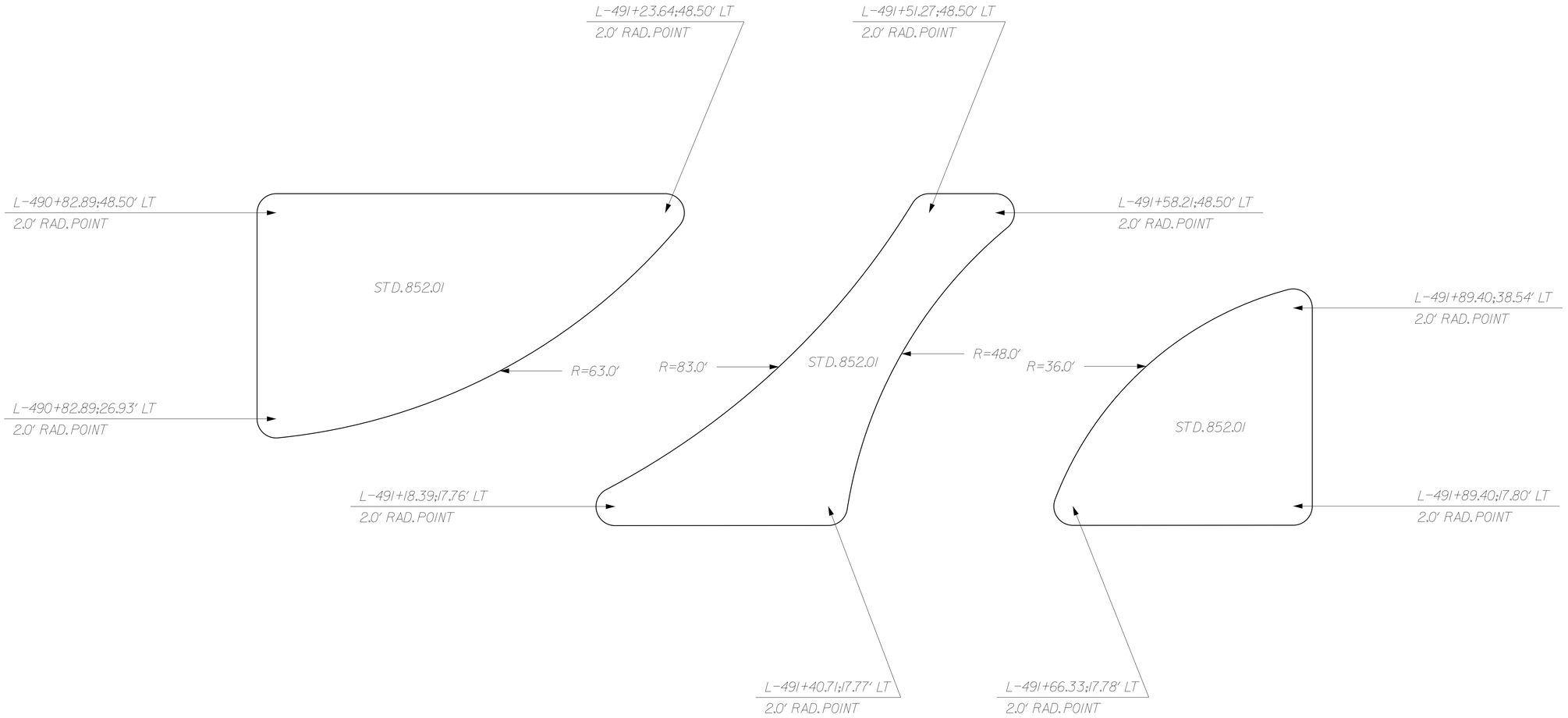
PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2B-1

CONCRETE ISLAND LAYOUT DETAIL
US 70 AT GLADYS TEASLEY LANE



DRAWING NOT TO SCALE

REVISIONS

8/17/99

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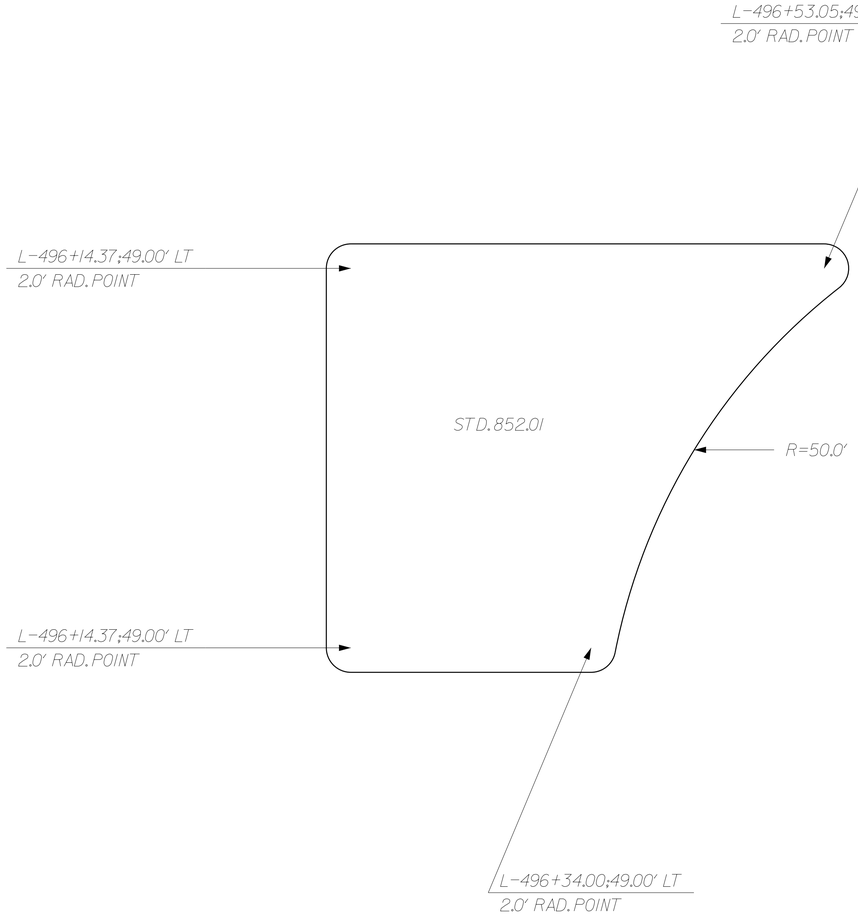
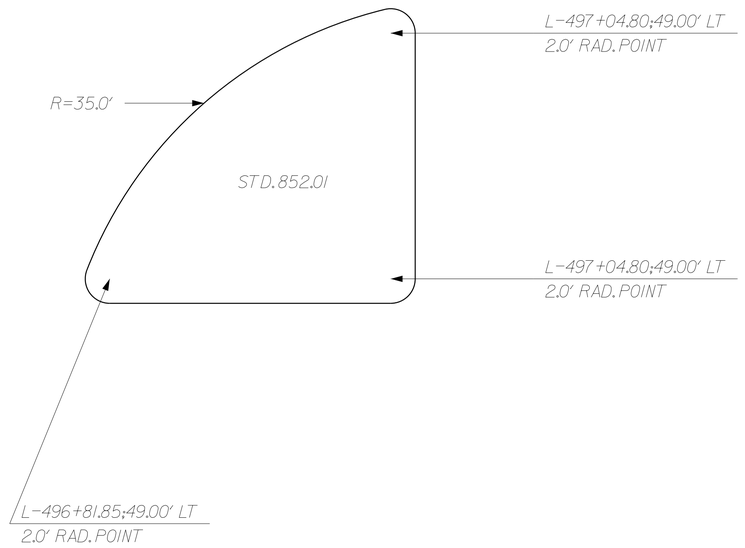
PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2B-2

CONCRETE ISLAND LAYOUT DETAIL
US 70 WESTERN NEW LOCATION
MEDIAN CROSSOVER





DRAWING NOT TO SCALE

REVISIONS

8/17/99

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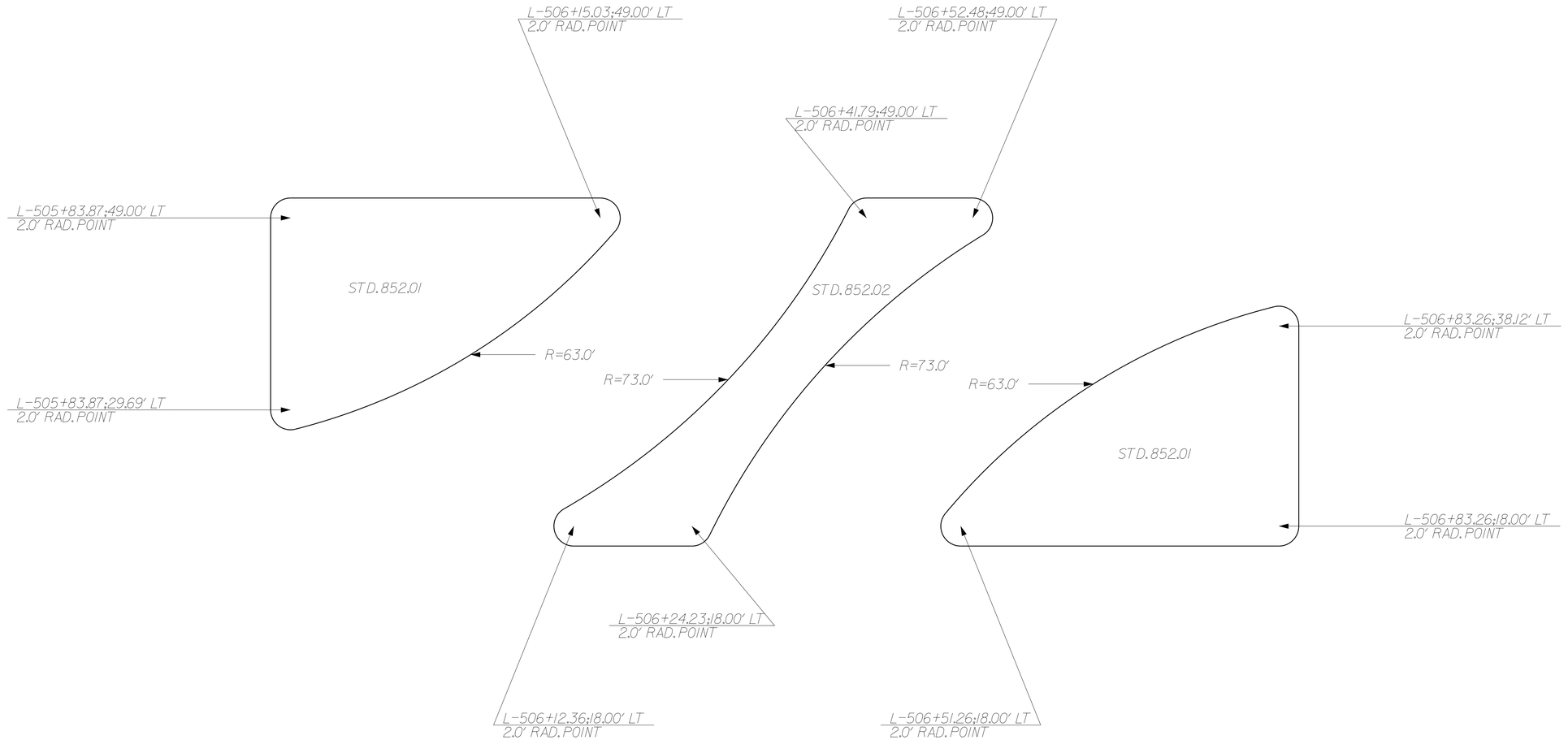
PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2B-3

CONCRETE ISLAND LAYOUT DETAIL
US 70 AT -Y17- SR1151 (OLD MURDOCH ROAD)

NOTE: TWO (2) STANDARDS USED
AT THIS LOCATION



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REVISIONS

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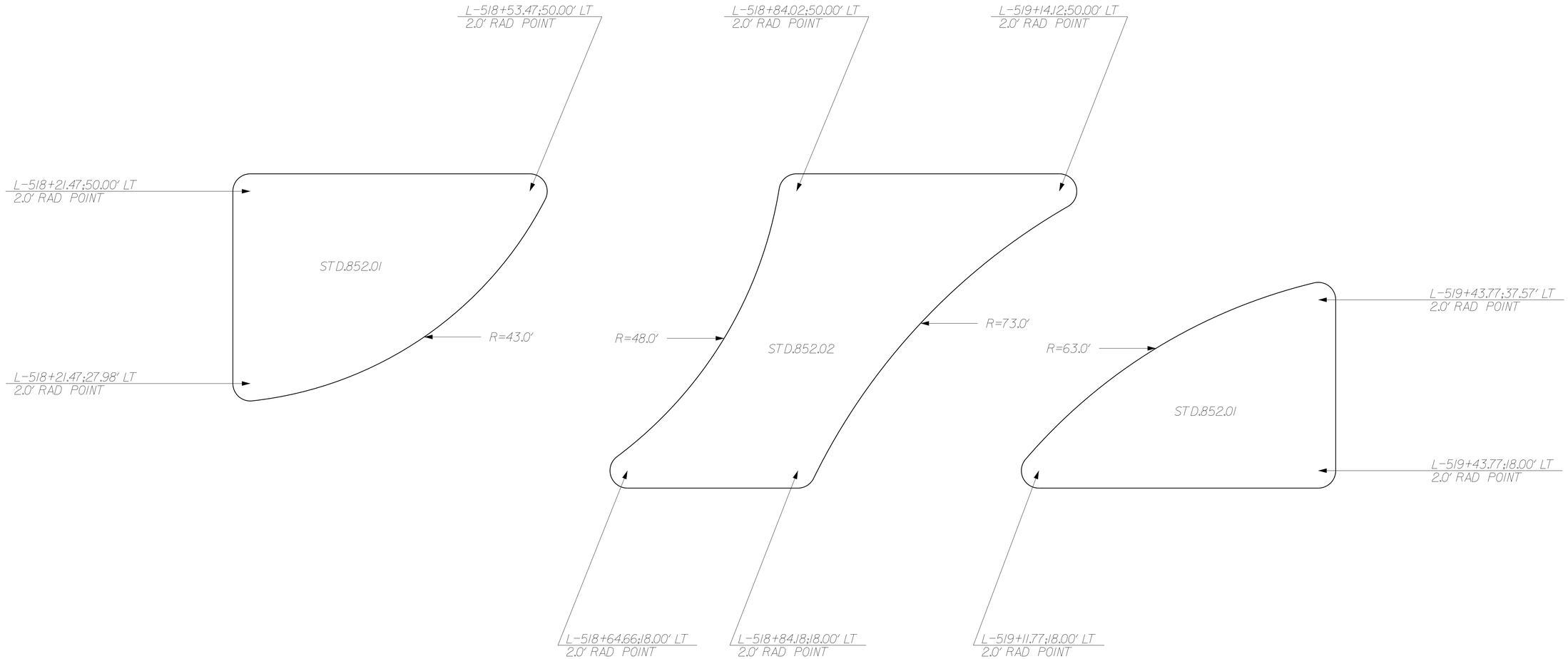
PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2B-4

CONCRETE ISLAND LAYOUT DETAIL
US 70 AT -Y19- SR1152 (OLD AIRPORT ROAD)

NOTE: TWO (2) STANDARDS USED AT THIS LOCATION



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REVISIONS

8/17/99

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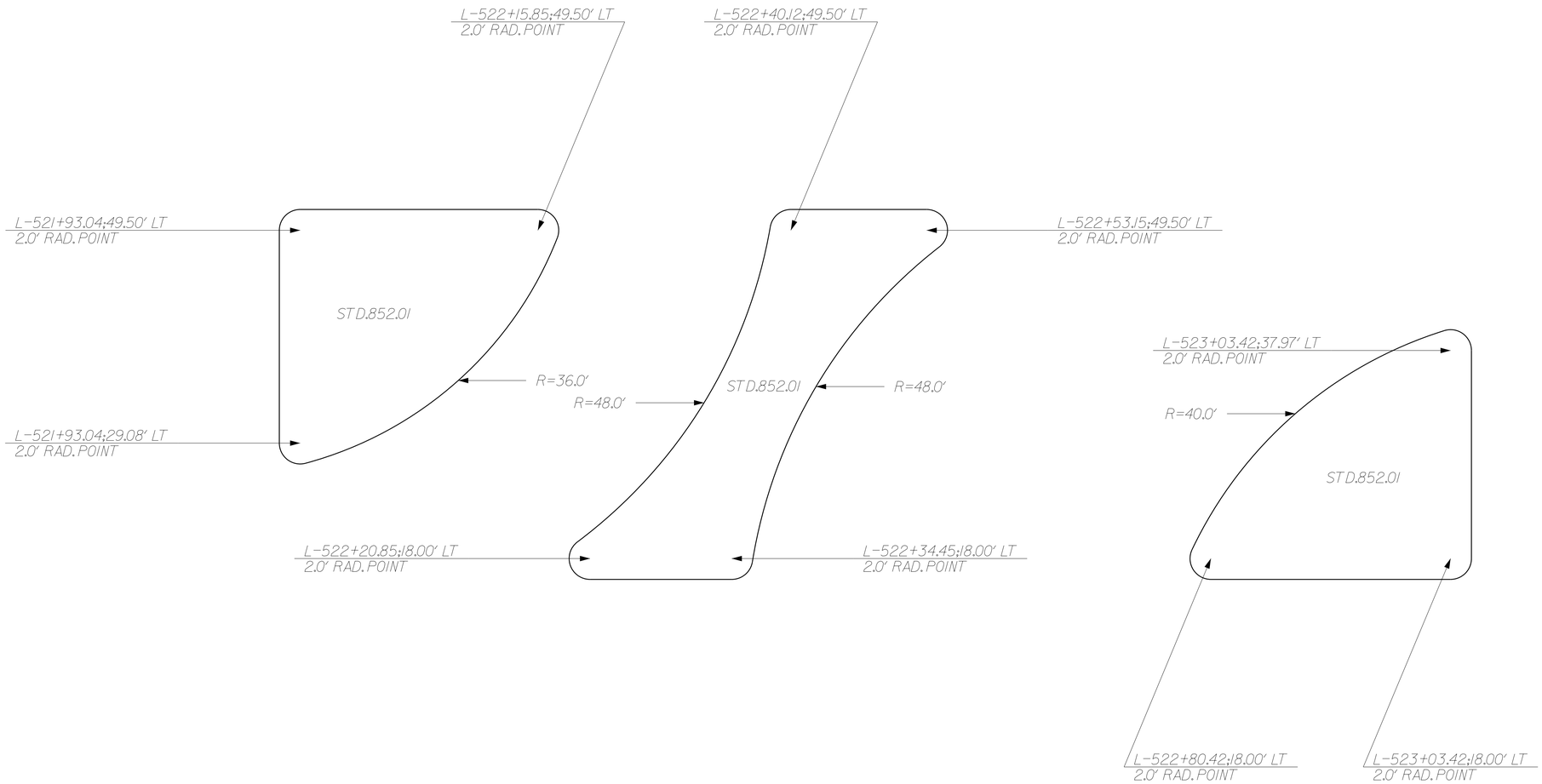
PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2B-5

CONCRETE ISLAND LAYOUT DETAIL
US 70 AT -Y- SR1601 (LITTLE NINE ROAD)



DRAWING NOT TO SCALE

REVISIONS

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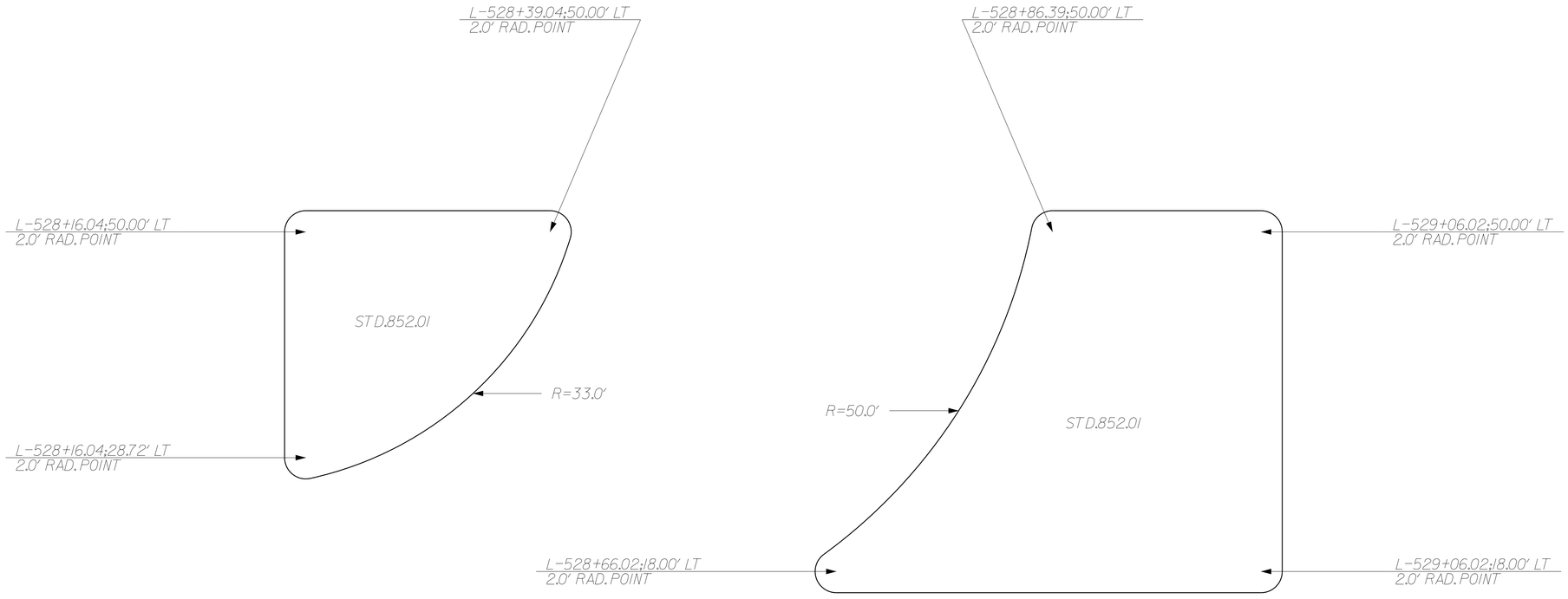
PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	2B-6

CONCRETE ISLAND LAYOUT DETAIL
US 70 EASTERN NEW LOCATION
MEDIAN CROSSOVER



DRAWING NOT TO SCALE

REVISIONS

8/17/99

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$$$$DEFAULT$$$$

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COMPUTED BY: RGG DATE: 8/5/24 rev. 4/2/25
CHECKED BY: DATE:

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	3A

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300–5".

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR MEDIAN)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"
–L–496+60	M	1			13.6′	14.0′									
–L–499+19	M														
–L–509+15	M														
–L–522+44	M	2			13.3′	13.1′									
–L–523+10	M	3		16.0′											
–L–523+18	M	4			12.4′	12.4′									
–L–523+12	M	5			12.4′	12.4′									
–L–528+60	M	6			11.9′	11.6′									
TOTAL															

STATION	CLASS III R.C. PIPE (UNLESS OTHERWISE NOTED) 12"	15"	18"	24"	30"	36"	42"	48"						CLASS IV R.C. PIPE (UNLESS OTHERWISE NOTED) 12"	15"	18"	24"	30"	36"	42"	48"
–L–496+60																116′					
–L–499+19																					
–L–509+15																					
–L–522+44															128′						
–L–523+10																					
–L–523+18			12′																		
–L–523+12			2.5′																		
–L–528+60																120′					
TOTAL			14.5′												128′	236′					

STATION	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	
–L–496+60													
–L–499+19													
–L–509+15													
–L–522+44													
–L–523+10													
–L–523+18													
–L–523+12													
–L–528+60													
TOTAL													

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32								CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
–L–496+60																						
–L–499+19																					72′	MEDIAN PIPE REMOVAL
–L–509+15																					20′	MEDIAN PIPE REMOVAL
–L–522+44																						
–L–523+10					1				1													G.D.I. (N.S.)
–L–523+18																						
–L–523+12																			0.45			COLLAR AND EXTEND
–L–528+60																						
TOTAL					1				1										0.45		92′	

ABBREVIATIONS

- 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

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNCLASSIFIED STR. EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
–L– 490+78.89 – 492+00.00	49	0	0	67	18	0
–L– 495+00.00 – 502+00.00	507	0	0	255	0	252
–L– 505+79.87 – 506+87.26	33	0	0	14	0	19
–L– 518+17.47 – 519+47.77	55	0	0	1	0	54
–L– 521+89.04 – 529+10.02	599	0	0	583	0	16
CONTINGENCY		0	100			
SUB TOTAL	1243	0	100	920	18	341
SAY	1243	0	100	920	0	323

LUMP SUM EARTHWORK SUMMARY

SECT.NO.	QUANTITY	UNIT	ITEM DESCRIPTION
200	1.6 AC	LS	CLEARING AND GRUBBING...ACRE(S)
500	2,500 SY	LS	FINE GRADING

MILLING SUMMARY
IN SQUARE YARDS

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
–L–	490+78 – 491+93	MEDIAN OPENING	136.25
–L–	505+79 – 506+87	MEDIAN OPENING	154.35
–L–	518+17 – 519+47	MEDIAN OPENING	242.10
–L–	521+89 – 523+07	MEDIAN OPENING	210.18
TOTAL			742.88
SAY			745

PAVEMENT REMOVAL SUMMARY
IN SQUARE YARDS

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
–L–	490+78 – 491+23	MEDIAN	40.72
–L–	491+71 – 491+93	MEDIAN	30.00
–L–	495+52 – 499+50	MEDIAN	632.49
–L–	496+50 – 497+53	RT /OUTSIDE EB LN	43.78
–L–	505+45 – 505+99	MEDIAN	44.86
–L–	506+68 – 507+59	MEDIAN	53.00
–L–	517+55 – 518+28	MEDIAN	32.22
–L–	519+05 – 519+47	MEDIAN	41.13
–L–	521+89 – 522+28	MEDIAN	34.93
–L–	522+79 – 529+10	LT /INSIDE EB LN	284.37
–L–	528+11 – 529+10	LT /INSIDE WB LN	30.43
–L–	526+43 – 528+81	LT /OUTSIDE WB LN	137.54
TOTAL			1405.47
SAY			1410

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing and Removal of Existing Asphalt Pavement will be paid for at the contract Lump Sum price for "Grading".

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

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PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LINE

Electronically signed by: HEATHER C. LINE

02/25/2025

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LINE

Electronically signed by: HEATHER C. LINE

02/25/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99

N 7°17'30" W 242.62'

N 1°14'28" W 33.29'

S 18°27'12" W 41.26'

EIP

S 18°39'26" W 349.91'

N 18°27'30" E 339.06'

N 18°38'31" E 125.71'

S 71°23'22" E 271.73'

S 71°23'22" E 250.01'

N 18°39'33" W 299.68'

S 18°38'27" W 300.25'

490

495

500

REEL RUT LLC
DB 1788 PG 30
MB 18 PG 24

SEGRAVE PROPERTY HOLDINGS LLC
DB 1550 PG 305

SOUTH BANKS COMMUNITY CHURCH
DB 1478 PG 38

TYSON & HINES INVESTMENTS, LLC
DB 1649 PG 339
PB 29 PG 851

TYSON & HINES INVESTMENTS LLC
DB 1211 PG 78

BRANDYWINE OWNERS ASSOCIATION
DB 1252 PG 148
MB 30 PG 620

KURTIS PROPERTY MANAGEMENT, LLC
DB 1780 PG 413

KURTIS PROPERTY MANAGEMENT LLC
DB 938 PG 88

HTR BUS
WD DK
IS F BUS
IS BK/MTL BUS
IS BLK BUS
MTL
CONC
BK WALL
BK BLDG
FLAG POLE
36" WHITE OAK
TIMBER FOOTBRIDGE 6' (PNG)
POND
GRAVEL
BST
BST PARKING
LT/ BASE
EXIST. R/W LINE
EXISTING R/W
NC GRID NAD 83 NA 2011
US 70 W (VAR.BST)
US 70 E (VAR.BST)
S 71° 20' 58" E
-L-
MATCHLINE L-STA 502+50.00 SEE PSH 5
BEGIN PROJECT HS-2002AF L-490+00.00
GRASS
CONC.
INV=12.32'
POSSIBLE UG
INV=11.95'
INV=4.84'
INV=4.43'
TOP=14.97' INV=10.32'
TOP=14.27' INV=5.40'
TOP=17.66' INV=8.55'
TOP=15.66' INV=9.65'
8" RCP
18" RCP
24" RCP
18" HDPE
10" PVC
2" CMP
2" PLAS (NCDOT)
(6" PLAS TC(S))
R 46.00'
R 50.00'
R 242.00'
L-490+00.00 BEGIN PROJECT HS-2002AF
L-478.89 54.5' LT
L-478.89 120' LT
L-493.40 54.5' LT
L-493.40 120' LT
L-463.46 EXIST.
L-417.83 EXIST.
L-408.74 32.1' RT
L+10.37 55.0' LT
L+10.37 120' & 160' LT
L+51.87 16.0' LT
L+50.38 24.0' RT
L+50.47 EXIST.
L+08.80 41.0' LT
L+08.80 120' & 160' LT
L+01.35 39.3' RT
L+53.22 24.0' RT
L+53.22 EXIST.
L+50.00 55.0' LT
L+50.00 41.0' LT
L+50.00 160' LT
+0.325%
+0.050%
R-2757 BY-185 BL3-85
N 34°25'32" E 2.88'
N 24°02'57" E 31.88'
N 18°56'05" E 59.99'
N 14°21'23" E 34.74'
N 23°24'47" E 25.22'
N 17°28'02" E 42.44'
S 15°48'12" W 24.25'
S 18°44'50" W 397.32'
S 16°39'33" W 164.99'
PROP. ASPHALT REMOVAL
PROP. MILLING
PROP. CONC. ISLAND
PROP. BST

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PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 049582 ENGINEER HEATHER C. LANE

SEALed by: Heather C. Lane

02/25/2025

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 049582 ENGINEER HEATHER C. LANE

SEALed by: Heather C. Lane

02/25/2025

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8/17/99

REVISIONS

N 71°23'38" W 104.98'

2S BLK BUS

CONC.

LT/ BASE

TGW LLC
DB 1425 PG 134
MB 30 PG 445

-Y17-P0T Sta. 2+00.00

HADNOT FARM INVESTMENTS LLC
DB 1410 PG 309

MAX MURPHY
DB 1054 PG 190
MB 2 PG 137

ABAND DSD

EXISTING R/W

NON W.P.

VO CONC. DR.

SR 1151 (OLD HUBERT BLVD)

PROJECT B-2009
BK 256 PG 453

PROJECT B-2009
BK 270 PG 481

N 24°59'01.9" E

S 24°42'58" W 199.82'

S 24°16'27" W 181.29'

S 71°16'55" E 164.87'

S 71°16'55" E 82.09'

N 71°16'55" W 164.15'

S 71°16'55" E 82.08'

S 71°16'55" E 82.08'

S 71°16'55" E 30.08'

N 22°51'45" E 200.79'

N 22°51'45" E 38.32'

S 22°53'06" W 203.10'

S 22°53'06" W 200.06'

CHRIS CAPOCCIA
DB 1656 PG 438

S 71°16'55" E 159.03'

S 71°16'55" E 65.97'

S 71°16'55" E 85.23'

N 22°54'05" E 180.12'

CHAANINE VENTURES, LLC
DB 1668 PG 34
MB 2 PG 137

IS ABAND BUS

TOP=16.65'
INV=14.53'
INV=13.19'
INV=13.13'

MTL B

SAMER HAMAD
DB 1196 PG 435
PB 2 PG 137

ISBLK B

GARY GOODING
DB 1498 PG 70
MB 2 PG 137

ISMTL BUS

TOWN OF MOREHEAD CITY
DB 1789 PG 136
MB 2 PG 137

BM#5
STA 81+01
288' LT
ELEV. 19.11'

EMILY GUTHRIE
DB 1769 PG 61
MB 2 PG 137

S 23°37'52" W 180.79'

S 23°14'53" W 180.63'

N 22°54'45" E 180.49'

DB 1782 PG 273

DB 1782 PG 273

TOP=15.32'
INV=5.89'

TOP=16.06'
INV=5.31'

TOP=15.96'
INV=13.66'

TOP=16.75'
INV=13.19'
INV=13.22'

TOP=16.48'
INV=14.86'
INV=14.83'
INV=14.87'

INV=12.9'

INV=13.89

INV=12.2'
INV=11.47'
INV=11.23'

INV=11.68'

RETENTION POND

24" C&G

BST

DI

SS

TC

FO

EOI

EIP

EXIST. R/W LINE

12" D.I.P

18" RCP

24" RCP

36" RCP

10" D.I.P

8" D.I.P

GRASS

CONC.

L-479.81
510' & 550' LT

L-+45.83
510' LT

L-+87.26
550' LT

L-+79.87
1210' LT

L-+87.26
1210' & 1660' LT

L-+59.42
1660' LT

REMOVE
18" RCP

-L- S 71°20'58.1" E

US 70 W (VAR.BST)

US 70 E (VAR.BST)

2UTL

7UTL

(CL)

TOP=17.91'
INV=7.72'

TOP=18.29'
INV=6.91'

TOP=17.42'
INV=7.50'

12" HDPE

12" PLAS (NCDOT)

18" RCP

15" RCP

36" RCP

24" C&G

6" PLAS (PNC)
INV=11.63'

TOP=16.55'
INV=11.65'
INV=11.54'
INV=12.30'

TOP=16.55'
INV=12.55'
INV=13.16'

ACPI 6.55(MC)

28' PAVED

EXIST. R/W LINE

JOLIN INC
DB 1459 PG 481

ISF BUS

WAS VENTURES II LLC
DB 1690 PG 140
MB 29 PG 224

ISMTL/BLK BUS

ISF BUS

B & B VENTURES OF WHC INC
DB 1292 PG 117

S 64°30'45" W 238.60'

S 70°44'22" E 211.87'

N 19°38'21" E 44.07'

N 22°54'05" E 301.02'

S 68°52'42" W 30.00'

S 68°52'42" W 30.00'

R=1196.00'

R=275.00'

2.5% R/W

10' EP

2' BST DR

STATE OF NORTH CAROLINA
DB 508 PG 127

ELIZAETH HENRY
DB 702 PG 130

KURTIS PROPERTY MANAGEMENT LLC
DB 939 PG 88

BST PARKING

CONC

IS BK BUS

IS BLK BUS

MTL

-L-P0T Sta. 506+26.10

-Y17-P0T Sta. 0+00.00

PROP.ASPHALT REMOVAL

PROP.MILLING

PROP.CONC.ISLAND

PROP.BST

MATCHLINE
L-STA502+50.00
SEE PSH 4

MATCHLINE
L-STA516+50.00
SEE PSH 6

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PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	6
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE
02/25/2025

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE
02/25/2025

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REVISIONS 8/17/99

*MAINLINE -L- STA 516+50.00
SEE PSH 5

-Y19-POT Sta. 2+00.00

-Y20-POT Sta. 2+00.00

NC GRID NAD 83 NA 2011

WILDWOOD FREEWILL BAPTIST CHURCH NO DB

SAMER HAMAD DB 1196 PG 435 PB 2 PG 137 ISMTL BUS

LONNIE P. HENDERSON DB 822 PG 740 ISF BUS

IS BLK D

BLK BUILDING

ELMA H. HENDERSON DB 822 PG 739 ISBKD

HENBRO LLC DB 850 PG 267 PB 101 PG 433 ISMTL/BK BUS

TIME LAND DEVELOPMENT DB 782 PG 265 ISMTL BUS

GUY LAMPE DB 1706 PG 344 PB 34 PG 180 ISMTL BUS

ENC DEVELOPMENT LLC DB 1777 PG 253

WILDWOOD FIRE DEPARTMENT, INC DB 391 PG 390 BST

COASTAL GYM PROPERTIES, LLC DB 1432 PG 304 PB 31 PG 151 ISMTL/BLK BUS

ISF FIRE DEPT

ISMTL BUS

SUNDANCE FARMS INC DB 1170 PG 135 PB 29 PG 93

-L-POT Sta. 518+64.11
-X19-POT Sta. 0+00.00

-L-POT Sta. 522+44.57
-Y-POT Sta. 0+00.00

-Y-POT Sta. 2+00.00

HARRELL ACQUISITIONS, LLC DB 1170 PG 135 PB 18 PG 97

ISBK BUS

METAL CANOPY

ALVIN D. EASTON DB 1407 PG 414 PB 18 PG 97

ISBLK BUS

ALVIN D. EASTON DB 1407 PG 414 PB 18 PG 97

MMT MANAGEMENT, LLC DB 1787 PG 170 PB 29 PG 93

M TIMES THREE, LLC DB 1569 PG 107

THE CARTERET COUNTY ALCOHOLIC BEVERAGE CONTROL BOARD DB 1811 PG 291

COASTAL JC PROPERTIES, LLC DB 1694 PG 281

-L-POT Sta. 525+95.40
-Y20-POT Sta. 0+00.00

PROP. ASPHALT REMOVAL

PROP. CONC. ISLAND

PROP. MILLING

PROP. BST

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PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	RW02C

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

–BASELINE– FROM TIP PROJECT R–5727

POINT	DESC.	NORTH	EAST	ELEVATION	BY STATION	OFFSET
50	R-5727 BY-50	371331.5710	2648443.7040	19.79	5+00.00	0.00
800	NCGS BENNETT	370995.8800	2648842.5200	17.01	10+21.29	0.00
GPS1	NCDOT GPS1	370302.6500	2650078.9000	10.31	24+38.75	0.00
51	R-5727 BY-51	369717.1230	2650663.6670	10.22	32+66.28	0.00
120	R-5727 BY-120	369405.2530	2651218.2710	13.56	39+02.55	0.00
52	R-5727 BY-52	369331.9550	2651819.9320	15.24	45+08.66	0.00
53	R-5727 BY-53	368979.8660	2652474.7630	12.95	52+52.15	0.00
185	R-5727 BY-185	368807.4400	2653202.3840	13.04	59+99.92	0.00
81	R-5727 BY-81	368556.1170	2653930.2000	17.35	67+69.91	0.00
193	R-5727 BY-193	368232.6970	2654633.5580	17.65	75+44.06	0.00
82	R-5727 BY-82	368003.1310	2655352.8130	16.15	82+99.06	0.00
83	R-5727 BY-83	367694.6720	2656278.0600	16.01	92+74.37	0.00
84	R5727 BY-84	367504.3280	2656847.0780	14.44	98+74.38	0.00

–BENCHMARK– FROM TIP PROJECT R–5727

```
*****************************************
BM5       ELEVATION = 19.11
N 368338      E 2655252
BY STATION 81+01.00 289 LEFT
BENCH TIE IN 36" PINE
*****************************************

*****************************************
BM10      ELEVATION = 15.51
N 367973      E 2656058
BY STATION 89+78.00 194 LEFT
BENCH TIE IN BASE OF 12" MAPLE TREE
*****************************************
```

–ALIGNMENTS– NCDOT PROJECT REFERENCES: 8.12009

L

POINT	N	E	BEARING	DIST
POT	369222.988	2651824.732		
LINE			S 71°20'58.1" E	5832.20
POT	367357.879	2657350.665		

Y

POINT	N	E	BEARING	DIST
POT	367759.359	2656161.163		
LINE			S 06°42'20.5" W	200.00
POT	367560.727	2656137.810		

Y17

POINT	N	E	BEARING	DIST
POT	368276.938	2654627.682		
LINE			N 24°59'01.9" E	200.00
POT	368458.223	2654712.155		

Y19

POINT	N	E	BEARING	DIST
POT	367881.029	2655800.680		
LINE			N 22°21'01.9" E	200.00
POT	368066.003	2655876.735		

Y20

POINT	N	E	BEARING	DIST
POT	367647.166	2656493.568		
LINE			N 19°51'01.9" E	200.00
POT	367835.282	2656561.482		

–FROM TIP PROJECT R–5727–

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "P-50"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 370883.43(ft) EASTING: 2654990.75(ft)
ELEVATION: 11.38'(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999915918
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"P-50" TO -L- STATION 476+67.80 IS
S 62°19'30" W 3,575.02'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTES:

1. ADDITIONAL PROJECT CONTROL CAN BE FOUND FROM TIP PROJECT R-5727.

8/17/99

REVISIONS

13-JAN-2025 14:19
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$$USERNAME$$

8/17/99

REVISIONS

GENERAL NOTES / LOCAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US70	MONDAY THRU FRIDAY 6:00 AM TO 8:00 AM 4:00 PM TO 6:00 PM

B) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

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

D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

F) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

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

TRAFFIC PATTERN ALTERATIONS

H) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

I) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

K) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

L) PORTABLE CHANGEABLE MESSAGE SIGN WILL BE MEASURED AND PAID AS THE MAXIMUM NUMBER OF PORTABLE CHANGEABLE MESSAGE SIGNS ACCEPTABLY PLACED AND IN OPERATION, AT ANY ONE TIME DURING THE LIFE OF THE PROJECT. AS DIRECTED BY THE ENGINEER.

PAVEMENT MARKINGS

M) INSTALL PAVEMENT MARKINGS ON FINAL LAYER OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING
US70	THERMOPLASTIC (6″)

N) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

P) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

Q) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 100 FT AND 200 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

COORDNATION WITH THE DEPARTMENT

R) FINAL SIGNAGE WILL BE PERFORMED BY NCDOT TRAFFIC SERVICES PROVIDE A THIRTY (30) DAY NOTICE TO THE DEPARTMENT PRIOR TO FINAL SIGNAGE REQUEST.

PHASING

STEP 1) USING RSD (ROADWAY STANDARD DRAWING) 1101.01, INSTALL ALL ADVANCE WARNING SIGNING ON ENTIRE PROJECT. IF CONSTRUCTION DOES NOT BEGIN WITHIN THREE DAYS OF SIGN INSTALLATION, REMOVE OR COVER THE ADVANCE WARNING SIGNING WITH AN APPROVED MATERIAL AT THE DISCRETION OF THE ENGINEER.

STEP 2) USING RSD (ROADWAY STANDARD DRAWING) 1101.02, CONSTRUCT: ALL PROPOSED DRAINAGE, NEW LOCATION-BULBOUTS, U-TURN LN'S AND RT TL UP TO THE EXISTING EDGE AND ELEVATION.

STEP 3) USING RSD (ROADWAY STANDARD DRAWING) 1101.02, CONSTRUCT: ASPHALT WIDENING IN THE EXISTING MEDIAN OPENINGS UP TO THE EXISTING EDGE AND ELEVATION.

STEP 4) USING RSD (ROADWAY STANDARD DRAWING) 1101.02, CONSTRUCT: ALL CONCRETE ISLANDS AND PLACE FINAL PAVEMENTS MARKINGS ON ENTIRE PROJECT.

STEP 5) INSTALL FINAL SIGNAGE, REMOVE ALL TRANSPORTATION MANAGEMENT DEVICES AND SIGNING. PLACE TRAFFIC INTO FINAL PATTERN.

LOCAL NOTES

LOCAL NOTES:

1) **EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.**
2) **NOTIFY THE FIRE DEPARTMENTS, E.M.S., AND CARTERET COUNTY SCHOOL BOARD THIRTY (30) DAYS PRIOR TO START OF PROPOSED WORK.**
3) **LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES WILL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.**

APPROVED: DocuSigned by: Heather C. Lane DATE: 04/02/2025

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

(MANAGEMENT STRATEGIES & GENERAL NOTES)

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USER:CLANE
PSELNAME:psh

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	PMP-1

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 MULTI-LANE ROADWAYS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS INSTALLATION SPACING

NC GRID
NAD 83 NA 2011

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:

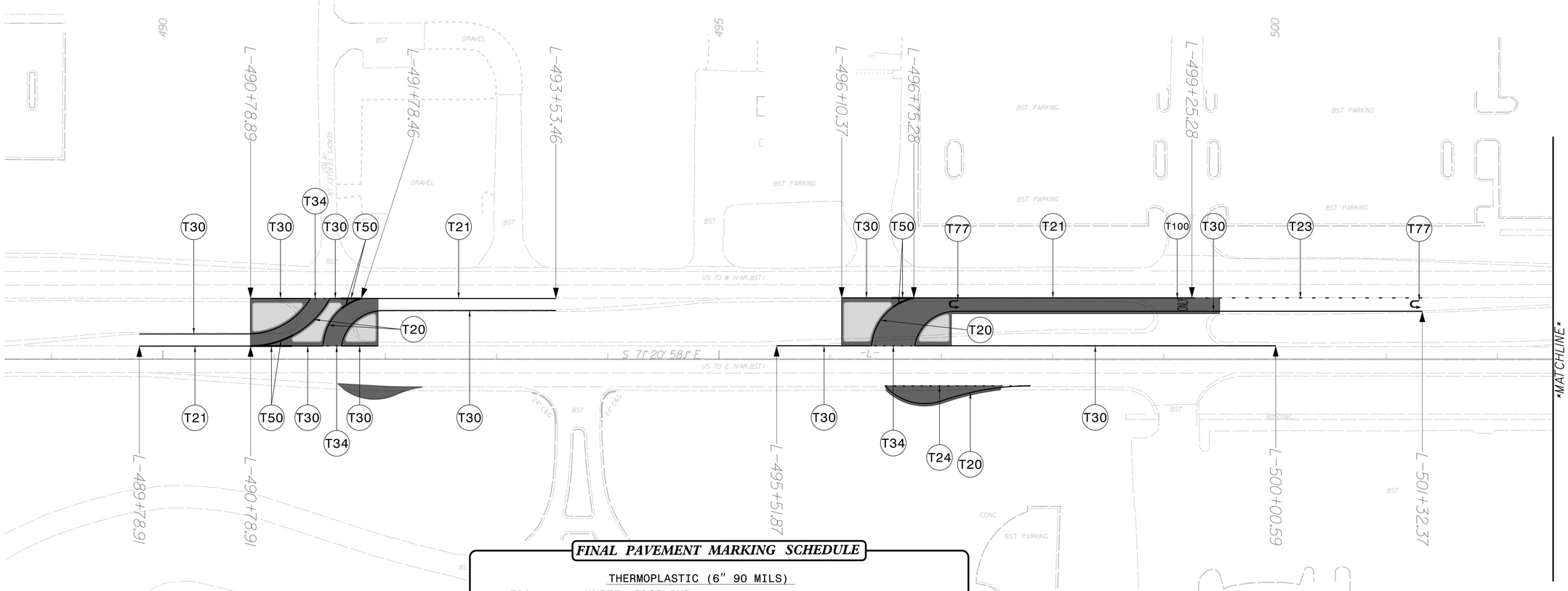
ROAD NAME	MARKING
US70	THERMOPLASTIC

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

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

D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

E) FINAL SIGNAGE WILL BE PERFORMED BY NCDOT TRAFFIC SERVICES PROVIDE A THIRTY (30) DAY NOTICE TO THE DEPARTMENT PRIOR TO SIGNAGE REQUEST.



PROP.CONC.ISLAND

PROP.BST

FINAL PAVEMENT MARKING SCHEDULE

THERMOPLASTIC (6″ 90 MILS)

T20	WHITE EDGELINE
T21	WHITE LANELINE
T23	3 FT. - 9 FT. / SP WHITE MINISKIP
T24	2 FT. - 6 FT. / SP WHITE MINISKIP
T30	YELLOW EDGELINE
T33	YELLOW DOUBLE CENTER
T34	2 FT. - 6 FT. / SP YELLOW MINISKIP

THERMOPLASTIC (12″ 90 MILS)

T50	WHITE GORELINE

THERMOPLASTIC (24″ 90 MILS)

T61	WHITE STOP BAR

THERMOPLASTIC PAVEMENT MARKING SYMBOLS/CHARACTERS(90 MILS)

T71	RIGHT TURN ARROW
T77	U-TURN ARROW
T100	ALPHANUMERIC CHARACTER (ONLY)

REVISIONS 8/17/99

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cstephenson
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PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	PMP-2

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:

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1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS INSTALLATION SPACING

GENERAL NOTES

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ROAD NAME	MARKING
US70	THERMOPLASTIC

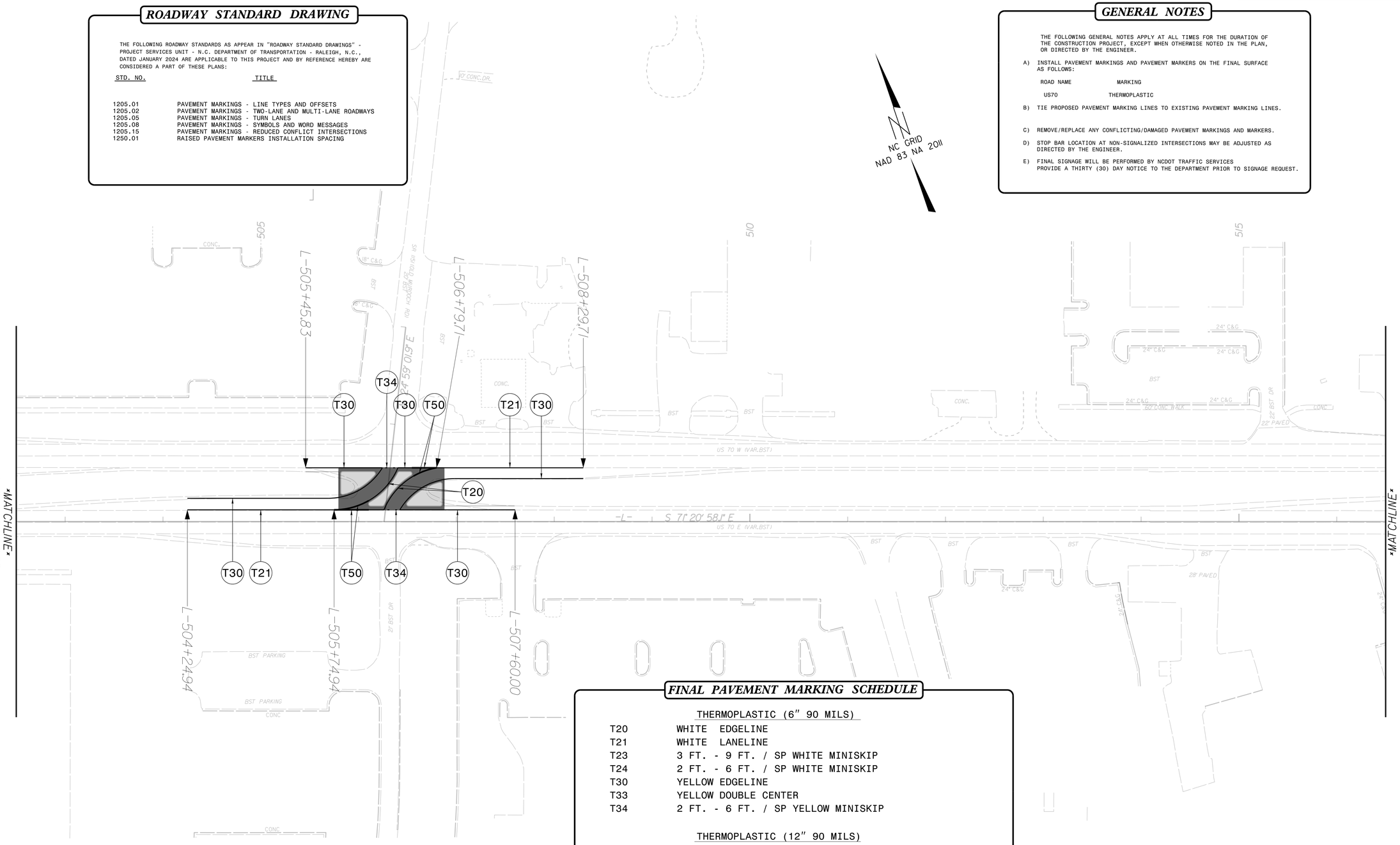
B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

E) FINAL SIGNAGE WILL BE PERFORMED BY NCDOT TRAFFIC SERVICES PROVIDE A THIRTY (30) DAY NOTICE TO THE DEPARTMENT PRIOR TO SIGNAGE REQUEST.

NC GRID
NAD 83 NA 2011



PROP.CONC.ISLAND

PROP.BST

FINAL PAVEMENT MARKING SCHEDULE

	THERMOPLASTIC (6" 90 MILS)
T20	WHITE EDGELINE
T21	WHITE LANELINE
T23	3 FT. - 9 FT. / SP WHITE MINISKIP
T24	2 FT. - 6 FT. / SP WHITE MINISKIP
T30	YELLOW EDGELINE
T33	YELLOW DOUBLE CENTER
T34	2 FT. - 6 FT. / SP YELLOW MINISKIP
	THERMOPLASTIC (12" 90 MILS)
T50	WHITE GORELINE
	THERMOPLASTIC (24" 90 MILS)
T61	WHITE STOP BAR
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS/CHARACTERS(90 MILS)
T71	RIGHT TURN ARROW
T77	U-TURN ARROW
T100	ALPHANUMERIC CHARACTER (ONLY)

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	PMP-3

8/17/99

REVISIONS

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:

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1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS INSTALLATION SPACING

NC GRID
NAD 83 NA 2011

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US70	THERMOPLASTIC

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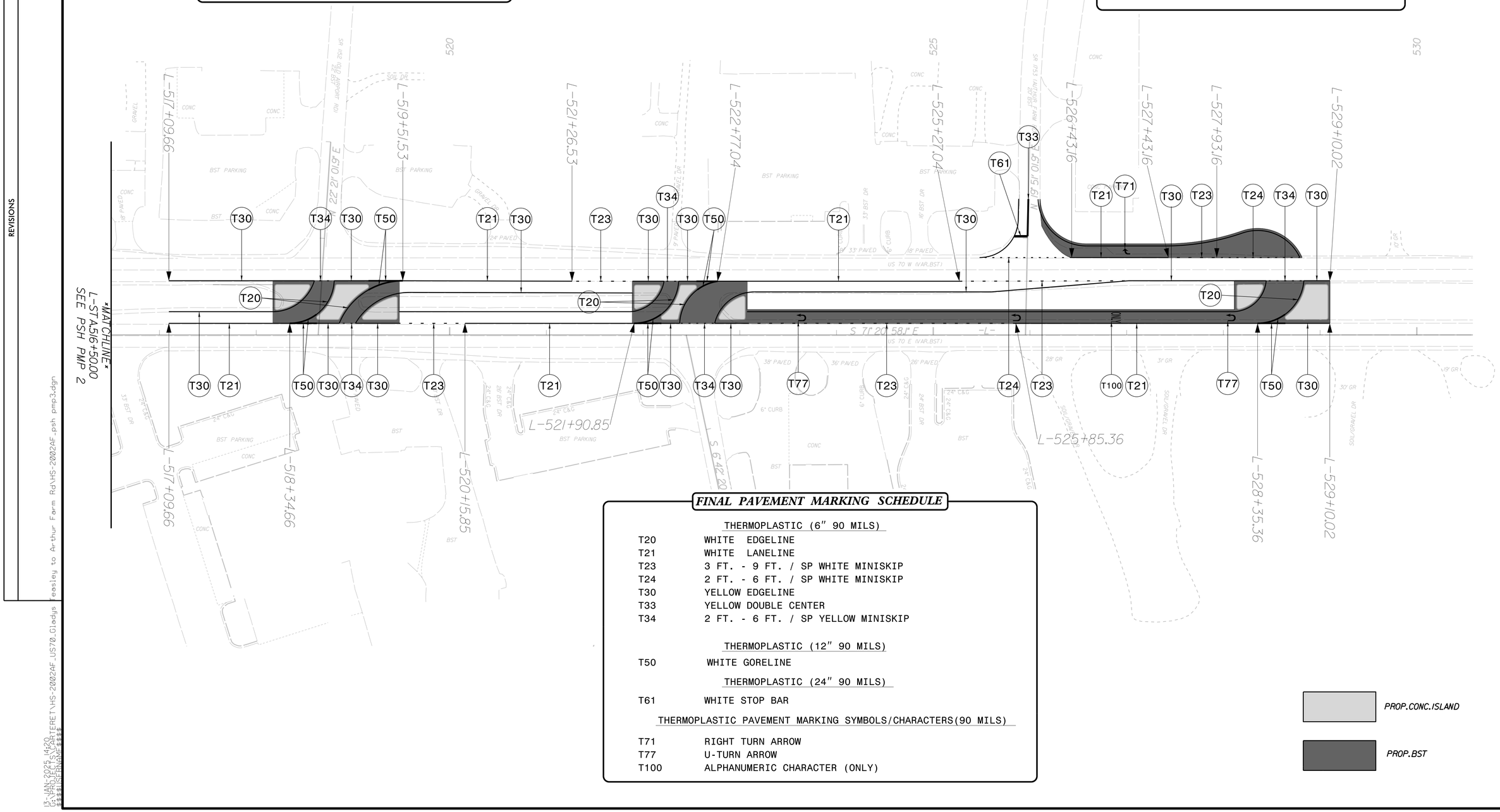
E) FINAL SIGNAGE WILL BE PERFORMED BY NCDOT TRAFFIC SERVICES PROVIDE A THIRTY (30) DAY NOTICE TO THE DEPARTMENT PRIOR TO SIGNAGE REQUEST.



FINAL PAVEMENT MARKING SCHEDULE

THERMOPLASTIC (6" 90 MILS)

T20	WHITE EDGELINE
T21	WHITE LANELINE
T23	3 FT. - 9 FT. / SP WHITE MINISKIP
T24	2 FT. - 6 FT. / SP WHITE MINISKIP
T30	YELLOW EDGELINE
T33	YELLOW DOUBLE CENTER
T34	2 FT. - 6 FT. / SP YELLOW MINISKIP

THERMOPLASTIC (12" 90 MILS)

T50	WHITE GORELINE

THERMOPLASTIC (24" 90 MILS)

T61	WHITE STOP BAR

THERMOPLASTIC PAVEMENT MARKING SYMBOLS/CHARACTERS(90 MILS)

T71	RIGHT TURN ARROW
T77	U-TURN ARROW
T100	ALPHANUMERIC CHARACTER (ONLY)

PROP.CONC.ISLAND

PROP.BST

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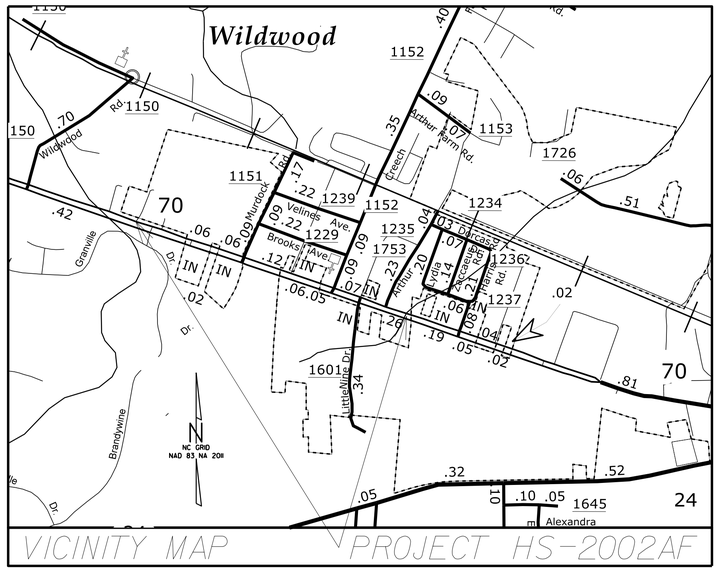
TIP PROJECT: HS-2002AF



VICINITY MAP PROJECT HS-2002AF

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2002AF	EC-1	7

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49300.1.35	4930007	PE
49300.2.19	4930007	UTILITY
49300.3.35	4930007	CONST.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CARTERET COUNTY

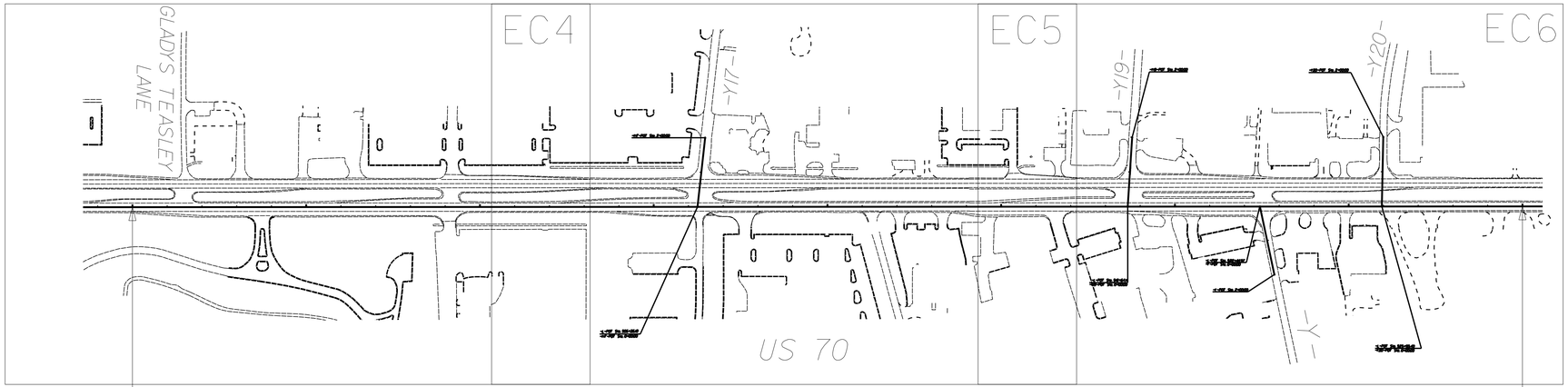
THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

NC GRID
NAD 83 NA 2011

LOCATION: ***US 70 BETWEEN GLADYS TEASLEY LANE AND SR 1753 (ARTHUR FARM ROAD) NEAR WILDWOOD***

TYPE OF WORK: ***CONSTRUCT REDUCED CONFLICT INTERSECTION INCLUDING THE MODIFICATION OF FIVE (5) FULL MOVEMENT MEDIAN OPENINGS***



GRAPHIC SCALE

50 25 0 50 100

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2024 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:

DIVISION OF HIGHWAYS

1037 WH SMITH BLVD.
GREENVILLE, NC 27835

2024 STANDARD SPECIFICATIONS

Designed by:

RICH GODLEY ***3559***

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.

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	EC-2

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

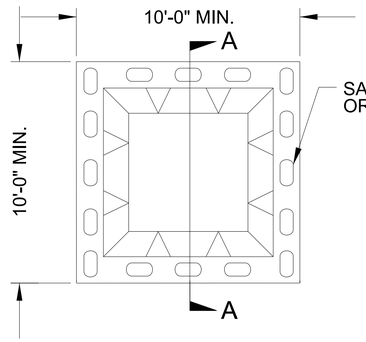
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

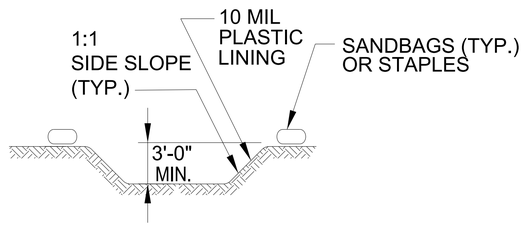
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	EW EW EW
1636.03	Coir Fiber Wattle Barrier	CFW CFW CFW

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	EC-2A

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A

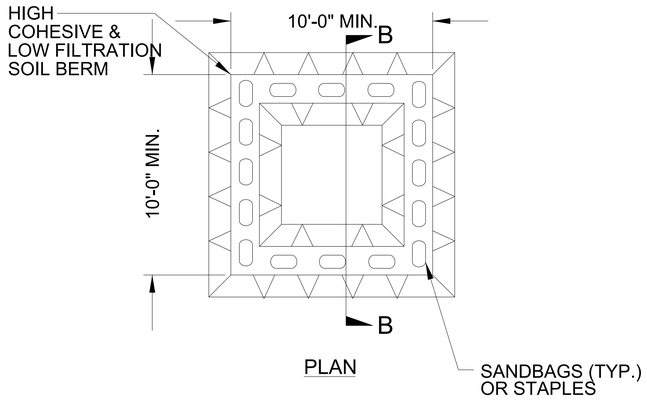
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

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.

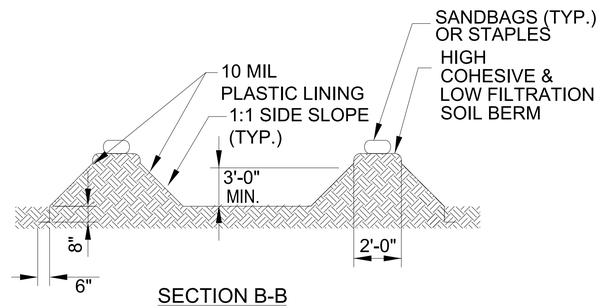
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



PLAN



SECTION B-B

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 CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	EC-3

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	EC-4
PLAN SHEET NO.	4

REVISIONS 8/17/99

N 71°17'30" W
242.62'

EIP

N 18°27'12" W
41.26'

N 1°14'28" W
33.29'

S 18°39'26" W
369.91'

490

N 18°42'50" E
39.06'

R=2757
BY=185
BL3=85

GRASS

GRASS

REEL RUT LLC
DB 1788 PG 30
MB 18 PG 24

POND

EXIST R/W LINE

8" RCP

DI 18" RCP

GRAVEL

BST

HTR BUS

WD DK

GRAVEL

GLADYS FEASLEY LN

24" RCP

FES

24" RCP

FES

18" RCP

FES

SEGRAVE PROPERTY HOLDINGS LLC
DB 1550 PG 305

N 18°18'31" E
125.17'

495

IS F BUS

SOUTH BANKS COMMUNITY CHURCH
DB 1478 PG 38

BST PARKING

BST

EIP

BST

18" RCP

FES

18" HDPE

S 71°23'22" E
271.73'

S 71°23'22" E
250.01'

IS BK/MTL BUS

500

IS BK/MTL BUS

N 18°39'31" W
295.76'

BST PARKING

TYSON & HINES
INVESTMENTS, LLC
DB 1649 PG 339
PB 29 PG 851

BST PARKING

BST

EIP

18" HDPE

S 18°38'27" W
295.68'

BST PARKING

TYSON & HINES INVESTMENTS LLC
DB 1211 PG 78

NC GRID
NAD 83 NA 2011

US 70 W (VAR.BST)

R=2757
BY=185
BL3=85

GRASS

GRASS

CONC

INV=12.45'

+0.325%

F

F

REMOVE

GRASS

GRASS

+0.325%

S 71°20'58" E

-L-

US 70 E (VAR.BST)

F

F

F

POSSIBLE JB

24" CMP

INV=11.95'

BST

+0.500%

C

C

TIMBER
FOOTBRIDGE

18" RCP

INV=15.15'

BST

EIP

EXIST. R/W LINE

BRANDYWINE OWNERS ASSOCIATION
DB 1252 PG 148
MB 30 PG 620

EXISTING R/W

BK WALL

FLAG POLE

BK WALL

BK BLDG

KURTIS PROPERTY
MANAGEMENT, LLC
DB 1780 PG 413

IS F BUS

CONC

BST PARKING

KURTIS PROPERTY MANAGEMENT LLC
DB 938 PG 88

BST

36" WROUGHT IRON

BST

EXISTING R/W

N 38°53'37" E
3.88'

N 14°02'57" E
53.99'

N 14°29'23" E
34.41'

EIP

N 22°54'41" E
29.22'

S 15°48'02" W
44.25'

S 18°44'50" W
397.32'

IS BLK BUS

MTL

MATCHLINE
L-STA 502+50.00
SEE PSH EC 5

PROP. ASPHALT REMOVAL

PROP. CONC. ISLAND

PROP. MILLING

PROP. BST

13-JAN-2025 14:22
C:\USERS\JTEFERT\HS-2002AF_US70_Gladys Feasley to Arthur Farm Rd\HS-2002AF_psh ec4.dgn
$$USCENAME$$

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	EC-5
R/W SHEET NO.	5

8/17/99

REVISIONS

MATCHLINE
L-STA502+50.00
SEE PSH EC 4

MATCHLINE
L-STA516+50.00
SEE PSH EC 6

NC GRID
NAD 83 NA 2011

N 71°23'38" W
104.98'

25 BLK BUS

CONC.

TGW LLC
DB 1425 PG 134
MB 30 PG 445

-Y17-POT Sta. 2+00.00

MAX MURPHY
DB 1054 PG 197
MB 2 PG 137

ISFD ABAND

EXISTING R/W

NON-MON

VC CONC. DRK

HADNOT FARM INVESTMENTS LLC
DB 1410 PG 309

S 7°16'55" E 164.87'

EIP

S 7°16'55" E 82.09'

N 7°16'55" W 164.15'

S 24°16'27" W 180.27'

N 24°59'01.9" E

PROJECT R/W PER DB 2256 PG 253

GARY GOODING
DB 1498 PG 70
MB 2 PG 137

ISMTL BUS

S 23°37'52" W 180.79'

TOWN OF MOREHEAD CITY
DB 1789 PG 136
MB 2 PG 137

S 7°16'55" E 82.08'

BM=5
BY STA 81+01
288' LT
ELEV.=19.11'

S 23°43'53" W 180.83'

EMILY GUTHRIE
DB 1769 PG 61
MB 2 PG 137

S 7°16'55" E 30.08'

N 22°51'45" E 180.45'

DB 1782 PG 273

N 22°51'45" E 200.79'

N 22°51'45" E 38.12'

S 22°53'06" W 200.06'

CHRIS CAPOCCIA
DB 1656 PG 438

S 22°53'06" W 200.10'

S 7°16'55" E 155.03'

CHAANINE VENTURES, LLC
DB 1668 PG 34
MB 2 PG 137

IS ABAND BUS

TOP=16.65'
INV=14.57'
INV=13.19'
INV=13.13'

TOP=16.75'
INV=13.33'
INV=13.42'

24" C&G

TOP=15.96'
INV=13.66'

RETENTION POND

S 7°16'55" E 65.37'

MTL B

SAMER HAMAD
DB 1196 PG 435
PB 2 PG 137

N 22°54'05" E 180.12'

INV=13.89'

INV=12.74'

INV=11.43'

INV=11.23'

INV=11.13'

INV=11.08'

ISBLK

18" RCP

24" C&G

28' PAVED

10' CONC. HW

EXIST. R/W LINE

CONC.

DI

BST

GRASS

US 70 W (VAR.BST)

US 70 E (VAR.BST)

-L- S 71°20'58" E

REMOVE

EIP

18" RCP

24" RCP

18" HDPE

BST-82

BST-757
BL14-93

KURTIS PROPERTY MANAGEMENT LLC
DB 938 PG 88

STATE OF NORTH CAROLINA
DB 508 PG 127

BST PARKING

IS BK BUS

N 18°38'20" E 44.0'

MTL

ELIZAETH HENRY
DB 702 PG 130

IS BLK BUS

21' BST DR

N 18°38'20" E 180.00'

R=196.00'

"B & B VENTURES OF MHC INC
DB 1292 PG 117

S 24°43'45" W 304.22'

S 24°43'45" W 88.56'

WAS VENTURES II LLC
DB 1690 PG 140
MB 29 PG 224

ISMTL/BLK BUS

S 70°44'22" E 211.87'

JOLIN INC
DB 1459 PG 481

ISF BUS

TOP=15.95'

TOP=16.02'
INV=11.05'
INV=11.54'
INV=12.30'

N 41°10'01" W 83.26'

-L-POT Sta. 506+26.10
-Y17-POT Sta. 0+00.00

PROP. ASPHALT REMOVAL

PROP. CONC. ISLAND

PROP. MILLING

PROP. BST

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	EC-6
PLAN SHEET NO.	6

8/17/99

REVISIONS

MATCHLINE
L-STA 516+50.00
SEE PSH EC 5

NC GRID
NAD 83 NA 2011

-Y19-POT Sta. 2+00.00

-Y20-POT Sta. 2+00.00

WILDWOOD FREEWILL BAPTIST CHURCH
NO DB

SAMER HAMAD
DB 1196 PG 435
PB 2 PG 137
ISMTL BUS

LONNIE P. HENDERSON
DB 822 PG 740
ISF BUS

ELMA H. HENDERSON
DB 822 PG 739
ISBKD

BLK BUILDING

HENBRO LLC
DB 850 PG 267
PB 101 PG 433
ISMTL/BK BUS

TIME LAND DEVELOPMENT
DB 782 PG 265
ISMTL BUS

GUY LAMPE
DB 1706 PG 344
PB 34 PG 180
ISMTL BUS

ENC DEVELOPMENT LLC
DB 1777 PG 253

RETENTION POND

BM#10
BY STA 89+78
194' LT
ELEV. 15.51'

N 22°21'01.9" E

S 71°16'55" E 150.88'

S 71°07'07" E 102.77'

S 67°06'38" E 80.78'

N 67°44'29" W 164.90'

S 67°44'29" E 141.30'

N 19°51'01.9" E

S 71°24'28" E 97.00'

N 18°40'56" E 150.44'

S 18°30'13" W 279.10'

N 04°27'03" E 201.52'

S 22°40'05" W 179.87'

N 14°38'03" E 78.63'

S 22°40'03" W 220.05'

N 22°40'03" E 207.96'

-L- S 71°20'58" E

S 6°42'20.5" W

-L-POT Sta. 518+64.11
-Y19-POT Sta. 0+00.00

-L-POT Sta. 522+44.57
-Y-POT Sta. 0+00.00

-Y-POT Sta. 2+00.00

-L-POT Sta. 525+95.40
-Y20-POT Sta. 0+00.00

-0.233%

REMOVE

COASTAL GYM PROPERTIES, LLC
DB 1432 PG 304
PB 31 PG 151
ISMTL/BLK BUS

WILDWOOD FIRE DEPARTMENT, INC
DB 391 PG 390
BST

ISF FIRE DEPT

SUNDANCE FARMS INC
DB 1170 PG 135
PB 29 PG 93

ISMTL BUS

MMT MANAGEMENT, LLC
DB 1787 PG 170
PB 29 PG 93

HARRELL ACQUISITIONS, LLC
DB 1170 PG 135
PB 18 PG 97

ISBK BUS

METAL CANOPY

ALVIN D. EASTON
DB 1407 PG 414
PB 18 PG 97

ISBLK BUS

ALVIN D. EASTON
DB 1407 PG 414
PB 18 PG 97

M TIMES THREE, LLC
DB 1569 PG 107

THE CARTERET COUNTY ALCOHOLIC BEVERAGE CONTROL BOARD
DB 1811 PG 291

COASTAL JC PROPERTIES, LLC
DB 1694 PG 281

PROP. ASPHALT REMOVAL

PROP. MILLING

PROP. CONC. ISLAND

PROP. BST

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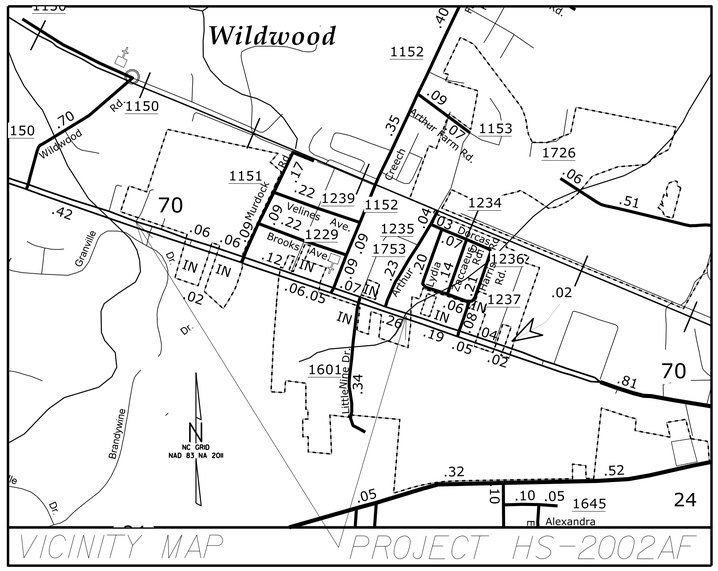
09/08/99

TIP PROJECT: HS-2002AF



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
CARTERET COUNTY

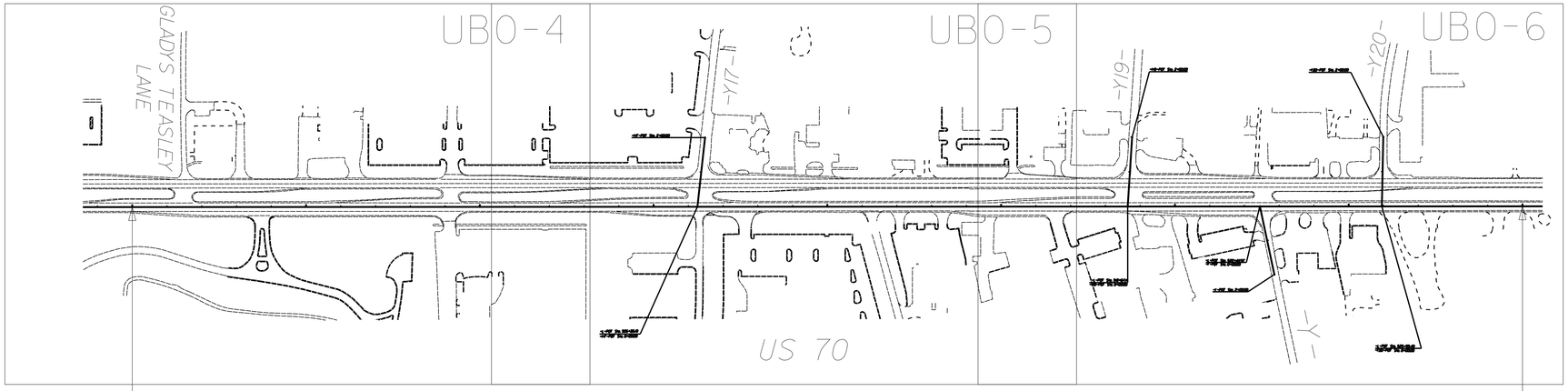
T.I.P. NO.	SHEET NO.
HS-2002AF	UBO-1

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

LOCATION: *US 70 BETWEEN GLADYS TEASLEY LANE AND SR 1753 (ARTHUR FARM ROAD) NEAR WILDWOOD*

TYPE OF WORK: *CONSTRUCT REDUCED CONFLICT INTERSECTION INCLUDING THE MODIFICATION OF FIVE (5) FULL MOVEMENT MEDIAN OPENINGS*

NC GRID
NAD 83 NA 2011



GRAPHIC SCALES

50 25 0 50 100
PLANS

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2 THRU UO-4	UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS

(A) CAROLINA WATER SERVICE - WATER
(B) PIEDMONT NATURAL GAS - GAS

PREPARED IN THE OFFICE OF:

DIVISION OF HIGHWAYS
1037 WH SMITH BLVD., GREENVILLE, NC 27835

RICH GODLEY	PROJECT DESIGN ENGINEER
CHAD MILLS	PROJECT UTILITY COORDINATOR
DAVID KRAMER	PROJECT UTILITY ENGINEER

DIVISION OF HIGHWAYS
DIVISION 02
2815 ROUSE ROAD EXTENSION
KINSTON, NC 28504

CHAD MILLS	DIVISION CONTACT #1
DAVID KRAMER	DIVISION CONTACT #2

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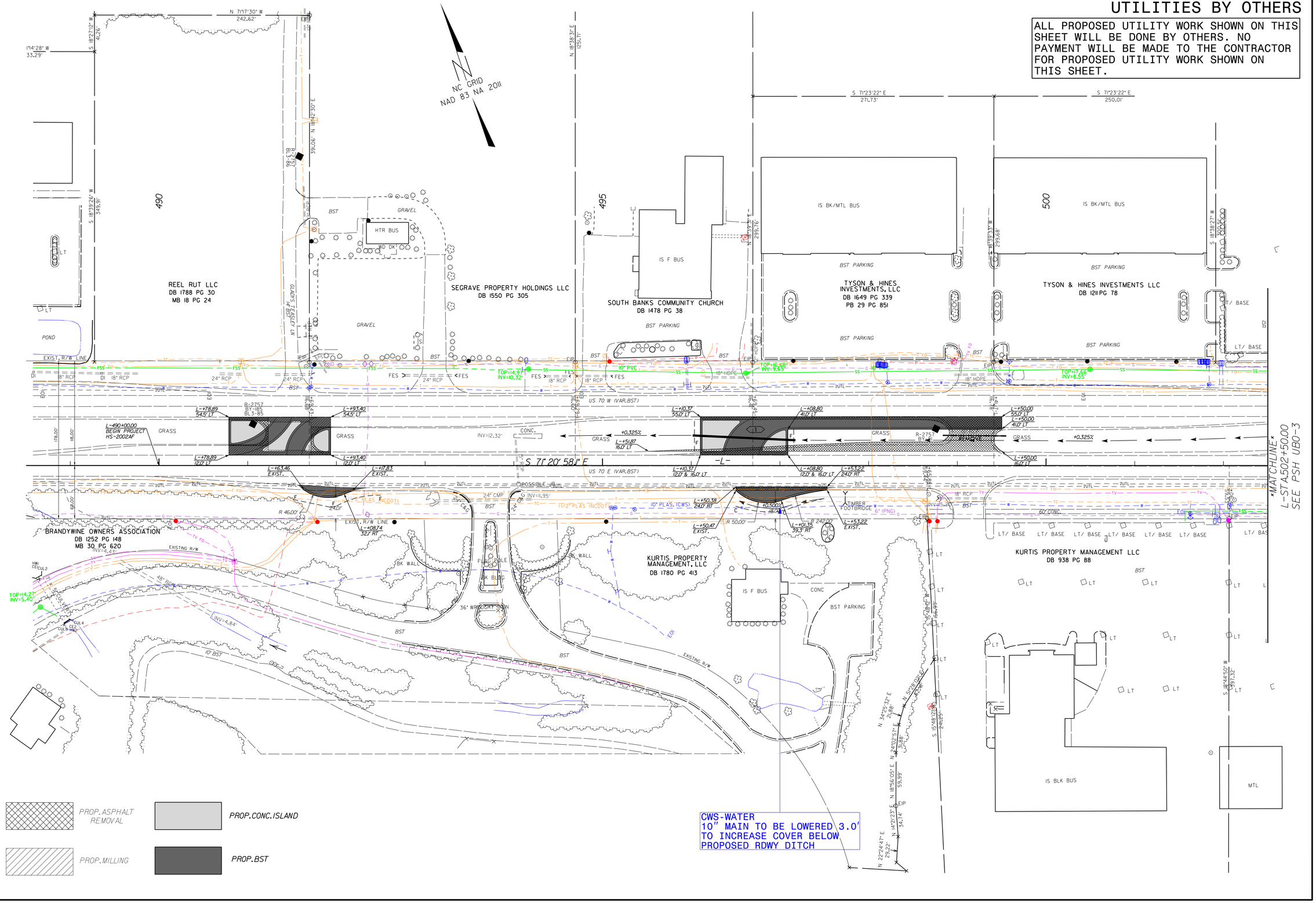
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	UBO-2

UTILITIES BY OTHERS

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.



REVISIONS

8/17/99

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	UBO-3

UTILITIES BY OTHERS

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.

8/17/99

REVISIONS

MATCHLINE
L-STA502+50.00
SEE PSH UBO-2

MATCHLINE
L-STA516+50.00
SEE PSH UBO-4

N 7°23'38" W
104.98'

2S BLK BUS

CONC.

LT/ BASE

TGW LLC
DB 1425 PG 134
MB 30 PG 445

-Y17-POT Sta. 2+00.00

HADNOT FARM INVESTMENTS LLC
DB 1410 PG 309

MAX MURPHY
DB 1054 PG 190
MB 2 PG 137

JSD ABAND

EXISTING R/W

NC GRID
NAD 83 NA 2011

N 24°59'01.9" E

-L-POT Sta. 506+26.10
-Y17-POT Sta. 0+00.00

PROP. ASPHALT REMOVAL
PROP. MILLING
PROP. CONC. ISLAND
PROP. BST

GARY GOODING
DB 1498 PG 70
MB 2 PG 137
ISMTL BUS

TOWN OF MOREHEAD CITY
DB 1789 PG 136
MB 2 PG 137

EMILY GUTHRIE
DB 1769 PG 61
MB 2 PG 137

BM#5
BY STA 81+01
288' LT
ELEV. 19.11'

DB 1782 PG 273

CHRIS CAPOCCIA
DB 1656 PG 438

CHAANINE VENTURES, LLC
DB 1668 PG 34
MB 2 PG 137
IS ABAND BUS

SAMER HAMAD
DB 1196 PG 435
PB 2 PG 137

MTL B

ISBLK B

RETENTION POND

REMOVE
18" RCP

US 70 W (VAR.BST)

-L- S 71°20'58.1" E

US 70 E (VAR.BST)

STATE OF NORTH CAROLINA
DB 508 PG 127

KURTIS PROPERTY MANAGEMENT LLC
DB 939 PG 88

ELIZAETH HENRY
DB 702 PG 130

B & B VENTURES OF MHC INC
DB 1292 PG 117

WAS VENTURES II LLC
DB 1690 PG 140
MB 29 PG 224

JOLIN INC
DB 1459 PG 481

ISF BUS

ISMTL/BLK BUS

IS BK BUS

IS BLK BUS

MTL

BST PARKING

CONC

GRASS

EXIST. R/W LINE

28' PAVED

24" C&G

18" RCP

12" D.I.P

8" D.I.P

Q7-JAN-2025 07:56
J:\ROADWAY\PROJECTS\HS-2002AF_US70_Gladys Teasley to Arthur Farm Rd\HS-2002AF_psh ubo3.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	UB0-4

UTILITIES BY OTHERS

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.

REVISIONS 8/17/99

MATCHLINE L-STA 516+50.00 SEE PSH UB0-3

-Y19-POT Sta. 2+00.00

-Y20-POT Sta. 2+00.00

NC GRID NAD 83 NA 2011

WILDWOOD FREEWILL BAPTIST CHURCH NO DB

SAMER HAMAD DB 1196 PG 435 PB 2 PG 137 ISMTL BUS

LONNIE P. HENDERSON DB 822 PG 740 ISF BUS

IS BLK D

BLK BUILDING

ELMA H. HENDERSON DB 822 PG 739 ISBKD

BM#10 BY STA 89+78 194' LT ELEV. 15.51'

HENBRO LLC DB 850 PG 267 PB 101 PG 433 ISMTL/BK BUS

TIME LAND DEVELOPMENT DB 782 PG 265 ISMTL BUS

GUY LAMPE DB 1706 PG 344 PB 34 PG 180 ISMTL BUS

ENC DEVELOPMENT LLC DB 1777 PG 253

WILDWOOD FIRE DEPARTMENT, INC DB 391PG 390 BST

ISF FIRE DEPT

ISMTL BUS

COASTAL GYM PROPERTIES, LLC DB 1432 PG 304 PB 31PG 151 ISMTL/BLK BUS

-L-POT Sta. 518+64.11
-X19-POT Sta. 0+00.00

SUNDANCE FARMS INC DB 1170 PG 135 PB 29 PG 93

-Y-POT Sta. 2+00.00

-L-POT Sta. 522+44.57
-Y-POT Sta. 0+00.00

ISMTL/BLK BUS

HARRELL ACQUISITIONS, LLC DB 1170 PG 135 PB 18 PG 97

ISBK BUS

METAL CANOPY

ALVIN D. EASTON DB 1407 PG 414 PB 18 PG 97

ISBLK BUS

ALVIN D. EASTON DB 1407 PG 414 PB 18 PG 97

MMT MANAGEMENT, LLC DB 1787 PG 170 PB 29 PG 93

M TIMES THREE, LLC DB 1569 PG 107

THE CARTERET COUNTY ALCOHOLIC BEVERAGE CONTROL BOARD DB 1811PG 291

COASTAL JC PROPERTIES, LLC DB 1694 PG 281

-L-POT Sta. 525+95.40
-Y20-POT Sta. 0+00.00

L-530+00.00 END PROJECT HS-2002AF

PNG-GAS
6" MAIN IS 3.7' DEEP
FACILITY TO BE CUT
BACK 75 LF EAST AND WEST
ALONG MAIN TO LOWER FACILITY
TO INCREASE DEPTH TO 5.0'

PROP.ASPHALT REMOVAL

PROP.CONC.ISLAND

PROP.MILLING

PROP.BST

07-JAN-2025 08:01
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PROJECT REFERENCE NO.	SHEET NO.
HS-2002AF	X1A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION (–L–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
490 + 78.89	0		0
491 + 00.00	6		9
491 + 93.40	40		54
492 + 00.00	3		4
495 + 00.00	0		0
495 + 50.00	9		0
496 + 00.00	22		0
496 + 10.37	5		5
496 + 50.00	17		36
497 + 00.00	33		54
497 + 08.80	8		11
497 + 50.00	46		33
498 + 00.00	63		17
498 + 50.00	62		13
499 + 00.00	73		6
499 + 50.00	71		0
500 + 00.00	40		7
500 + 50.00	21		15
501 + 00.00	18		19
501 + 50.00	12		21
502 + 00.00	7		18

LOCATION (–L–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
505 + 79.87	0		0
506 + 87.26	33		14
518 + 17.47	0		0
519 + 47.77	55		1
521 + 89.04	0		0
522 + 00.00	1		4
523 + 00.00	18		55
523 + 07.72	2		6
523 + 50.00	22		21
524 + 00.00	36		14
524 + 50.00	35		17
525 + 00.00	34		18
525 + 50.00	34		20
526 + 00.00	34		26
526 + 50.00	68		31
527 + 00.00	95		31
527 + 50.00	79		33
528 + 00.00	62		75
528 + 11.49	12		24
528 + 50.00	35		84
529 + 00.00	28		106
529 + 10.02	4		18

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading and Clearing and Grubbing will be paid for at the contract Lump Sum price for "Grading".

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	HS-2002AF	X-1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

20 10 0

EXIST. 8 % 4.1 13.4 4.1 8 % EXIST.

495+00.00

EXIST. 13.3 EXIST.

494+50.00

EXIST. EXIST.

492+50.00

EXIST. 13.83 EXIST. EXIST. 13.51 5.88 % 8 % 3.1

492+00.00

EXIST. 13.79 1.27 % 14.19 EXIST. EXIST. 13.48 6.40 % 8 % 3.1

491+93.40

EXIST. 13.88 0.14 % 13.82 EXIST.

491+50.00

EXIST. 13.42 13.42 0.01 % 13.41 EXIST.

491+00.00

EXIST. 13.19 0.80 % 12.94 13.28 EXIST.

490+78.89

EXIST. EXIST.

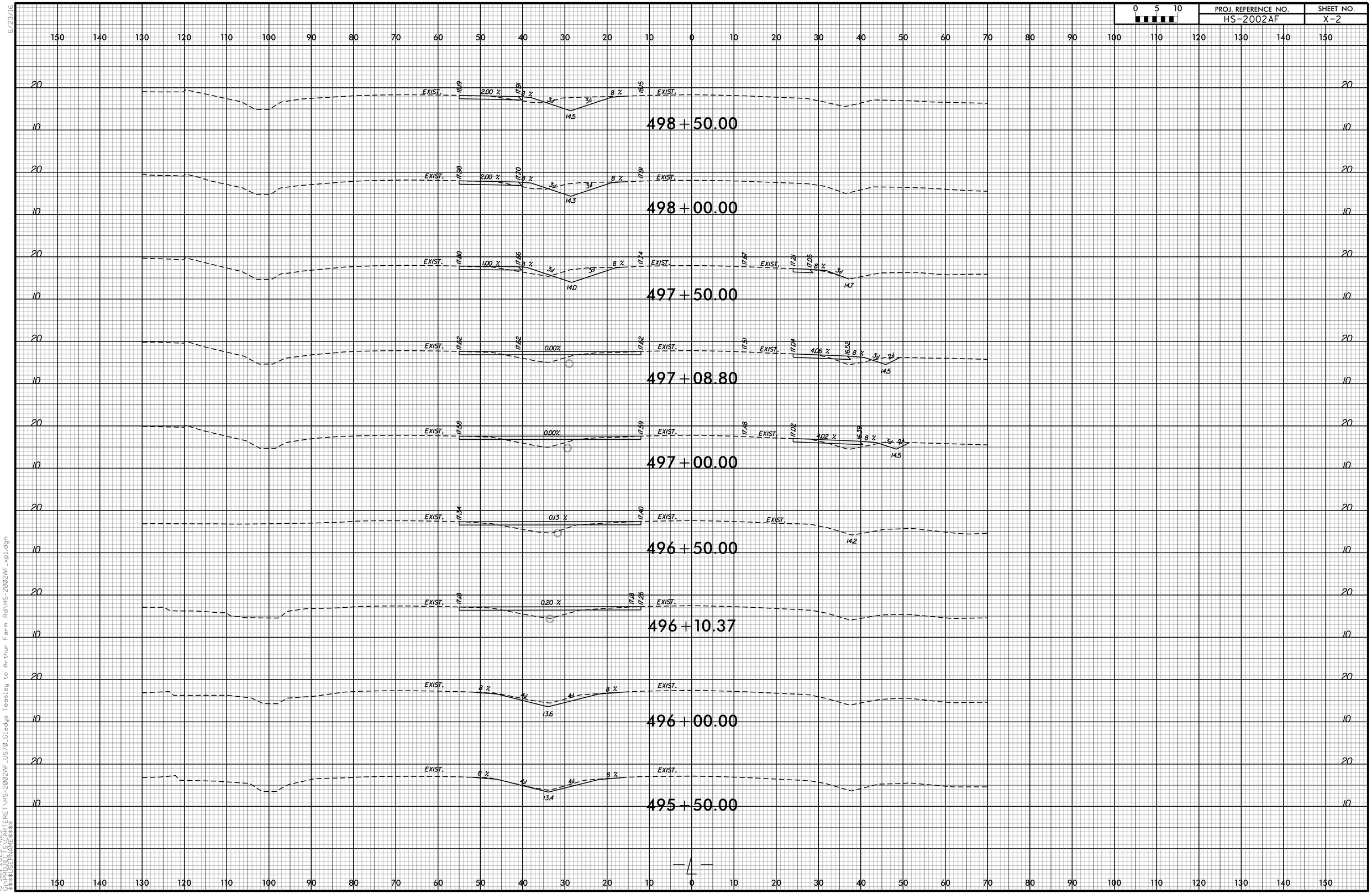
490+50.00

13-JAN-2025 14:25
$$$$USERNAME$$$$
$$$$USERNAME$$$$

13-JAN-2025 14:25
$$$$USERNAME$$$$
$$$$USERNAME$$$$

C:\USERS\TIERET\HS-2002AF_US70_Gladys Teasley to Arthur Farm Rd\HS-2002AF_xpl.dgn

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	HS-2002AF	X-2



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	HS-2002AF	X-3

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

30 20 10

EXIST. EXIST.

505+50.00

EXIST. EXIST.

502+50.00

EXIST. 8 % 3:1 4:1 8 % EXIST.

15.9

502+00.00

EXIST. 8 % 3:1 3:1 8 % EXIST.

15.7

501+50.00

EXIST. 8 % 3:1 3:1 8 % EXIST.

15.7

501+00.00

EXIST. 8 % 3:1 3:1 8 % EXIST.

15.5

500+50.00

EXIST. 8 % 3:1 3:1 8 % EXIST.

15.3

500+00.00

EXIST. 8 % 3:1 3:1 8 % EXIST.

15.1

499+50.00

EXIST. 18.61 2.84 % 18.22 8 % 3:1 3:1 8 % 18.35 EXIST.

15.0

499+00.00

EXIST. 18.35 2.00 % 18.07 8 % 3:1 3:1 8 % 18.23 EXIST.

14.7

30 20 10

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	HS-2002AF	X-4

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

30 20 10

EXIST. 16.46 1.25 % 17.03 EXIST.

519+00.00

EXIST. 16.42 1.40 % 17.03 EXIST.

518+50.00

EXIST. 16.41 1.48 % 17.06 EXIST.

518+17.47

EXIST. EXIST.

518+00.00

EXIST. EXIST.

507+00.00

EXIST. 16.24 0.40 % 16.41 EXIST.

506+87.26

EXIST. 16.33 0.47 % 16.53 EXIST.

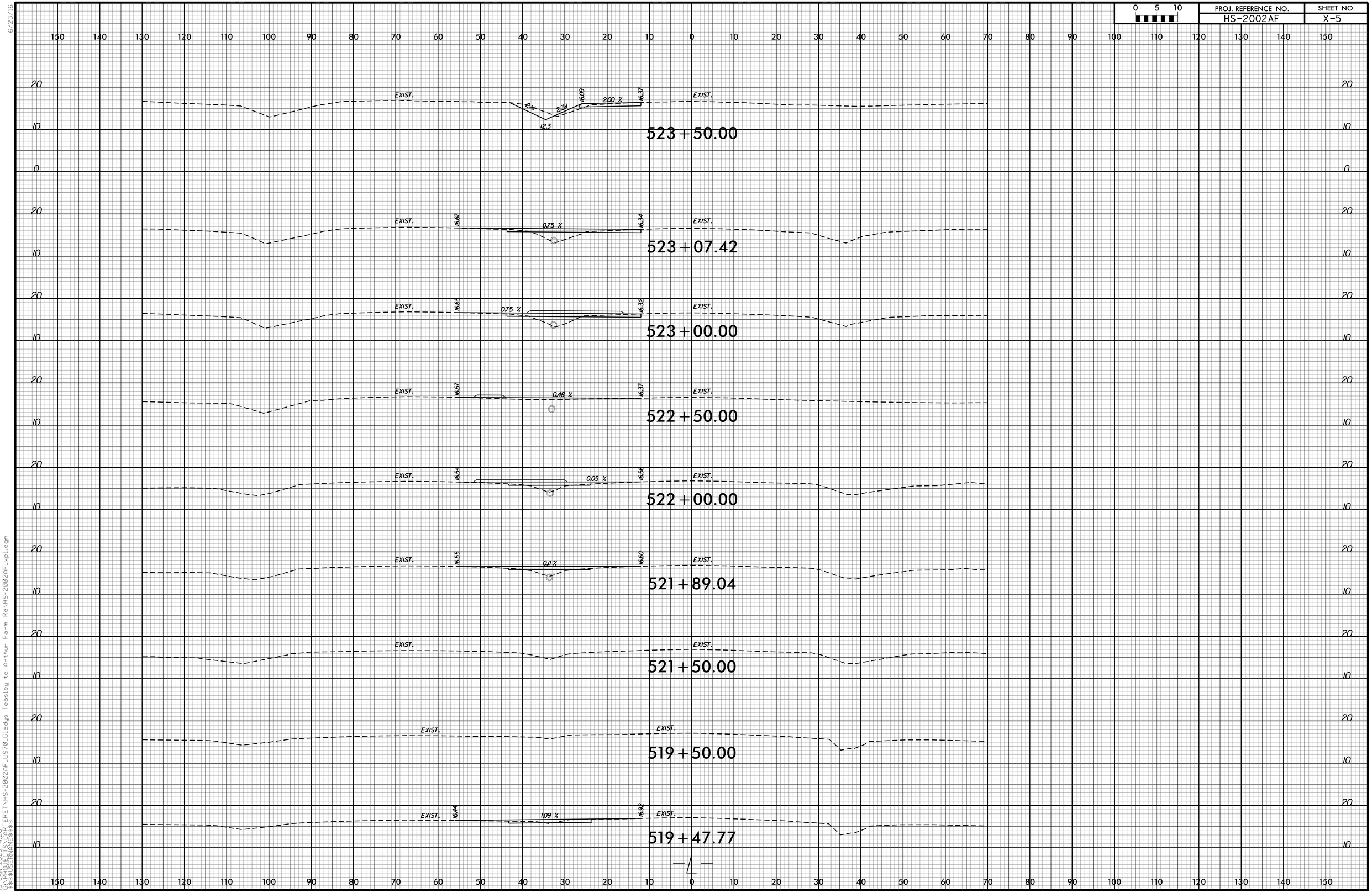
506+50.00

EXIST. 16.43 0.19 % 16.52 EXIST.

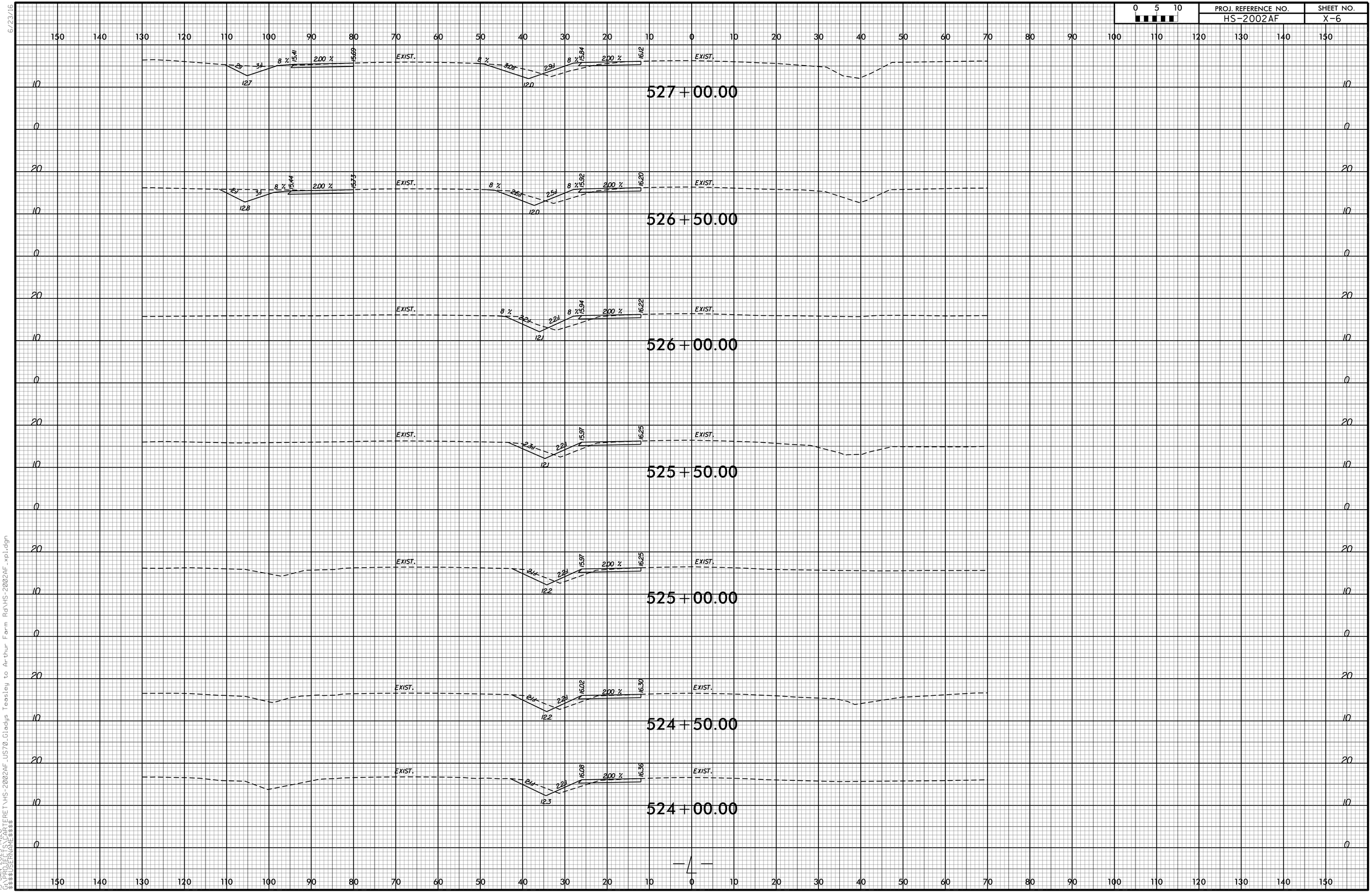
506+00.00

EXIST. 16.47 0.13 % 16.51 16.53 EXIST.

505+79.87



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	HS-2002AF	X-6



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	HS-2002AF	X-7

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

20 10 0

EXIST. 15.62 0.23 % 15.72 EXIST.
9.4
529+50.00

EXIST. 15.64 0.18 % 15.72 EXIST.
12.1
529+10.02

EXIST. 15.64 0.18 % 15.72 EXIST.
12.2
529+00.00

EXIST. 15.66 0.18 % 15.74 EXIST.
4H 2H 8 % 15.09 2.00 % 15.64
12.3
528+50.00

EXIST. 15.63 0.56 % 15.68 EXIST.
3H 2H 8 % 15.12 2.00 % 15.62
12.4
528+11.49

EXIST. 15.62 2.00 % 15.90 EXIST.
3H 3H 8 % 15.15 2.00 % 15.58
12.5 11.9
528+00.00

EXIST. 8 % 3H 3.0H 8 % 15.71 2.00 % 15.99 EXIST.
4H 3H 8 % 15.33 2.00 % 15.62
12.5 11.9
527+50.00