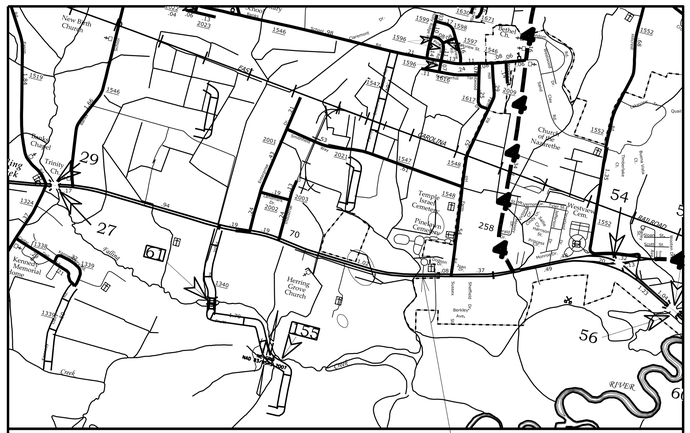
09/08/99

TIP PROJECT: W-5702S

CONTRACT: DB00542



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

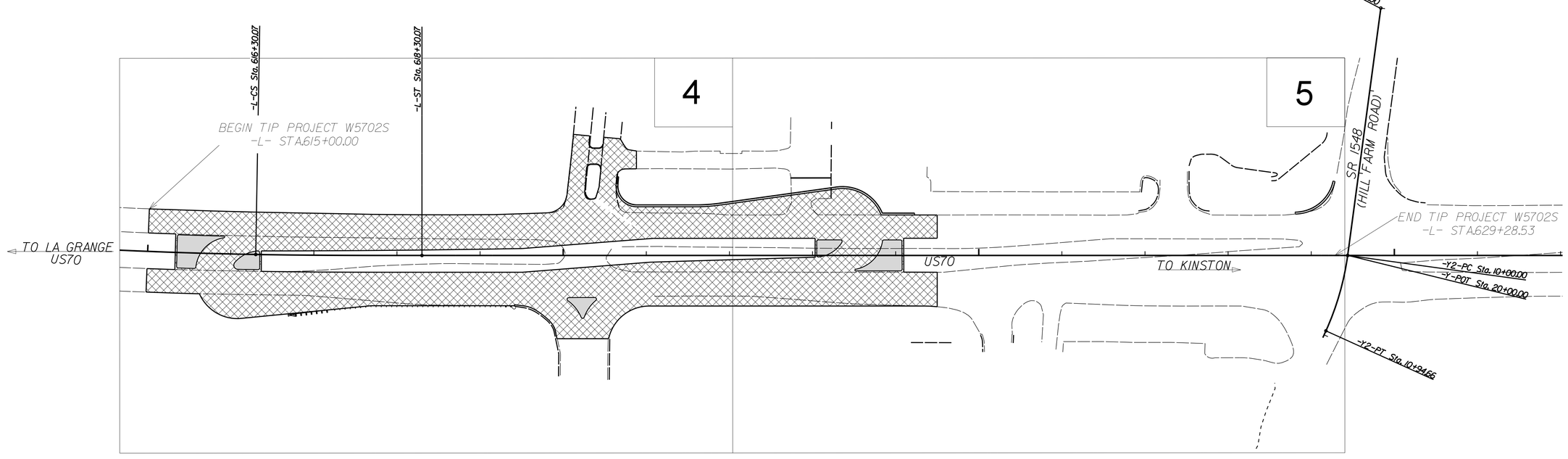
LENOIR COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702S	1	31

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44848.1.19	HSIP-0070(229)	PE
44848.2.19	HSIP-0070(229)	RW/UTILITY
44848.3.19	HSIP-0070(229)	CONST

LOCATION: US 70 AT ENTRANCES OF PINELAWN CEMETERY AND LOWES HOME IMPROVEMENT

TYPE OF WORK: CONSTRUCTION OF REDUCED CONFLICT INTERSECTION



See Sheet 1A For Index of Sheets

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

PROJECT LENGTH

TIP PROJECT W5702S LENGTH = 0.270 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
1037 WH SMITH BLVD., GREENVILLE NC, 27835

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: DECEMBER 2019

LETTING DATE: NOVEMBER 2022

HON F. YEUNG, PE
PROJECT ENGINEER

RICH GODLEY
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F. YEUNG
DocuSigned by: Hon Yeung 7FF5500D111C84DC...
SIGNATURE: *P.E.* 10/05/2022

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F. YEUNG
DocuSigned by: Hon Yeung 7FF5500D111C84DC...
SIGNATURE: *P.E.* 10/05/2022

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

05-OCT-2022 14:39
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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W5702S	1A

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
RW01THRU RW07	RIGHT OF WAY & CONTROL PLANSHEETS
2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2A	DRAINAGE DETAILS
2B1 THRU 2B2	CONCRETE ISLAND LAYOUT PLANSHEETS
3A	SUMMARY OF EARTHWORK
4-5	PLANSHEETS
PMP1	PAVEMENT MARKING PLAN SHEET
EC-1 THRU EC-3	EROSION CONTROL PLANS
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-6	CROSS-SECTIONS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

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

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.

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE 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.

SIDE ROADS:

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

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

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

UTILITIES:

OWNERS:
CITY OF KINSTON
PIEDMONT NATURAL GAS
DUKE ENERGY
CENTURY LINK
SUDDENLINK

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.2	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
DIVISION 3 - PIPE CULVERTS	
300.01	METHOD OF PIPE INSTALLATION
DIVISION 5 - SUBGRADE, BASES AND SHOULDRES	
560.01	METHOD OF SHOULDER CONSTRUCTION- HIGH SIDE OF SUPERELEVATED CURVE-METHOD I
DIVISION 8 - INCIDENTALS	
840.24	FRAMES AND NARROW SLOT SAG GRATES
846.01	CONCRETE CURB, GUTTER AND CURB AND GUTTER
850.01	CONCRETE PAVED DITCHES
852.01	CONCRETE ISLANDS
862.01	GUARDRAIL PLACEMENT
862.02	GUARDRAIL INSTALLATION
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	LINE TYPES OFFSETS
1205.02	DIVIDED AND UNDIVIDED ROADWAYS
1205.05	TURN LANES
1205.08	SYMBOLS AND WORD MESSAGES
1250.01	PAVEMENT MARKER SPACING
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
DIVISION 16 - EROSION CONTROL	
1605.01	TEMPORARY SILT FENCE
1631.01	MATTING INSTALLATION
1632.03	ROCK INLET SEDIMENT TRAPE TYPE C
1633.01	TEMPORARY ROCK SILT CHECK TYPE A

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
W5702S	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 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 — 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.

09/08/99

TIP PROJECT: W-5702S

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702S	RW01	7

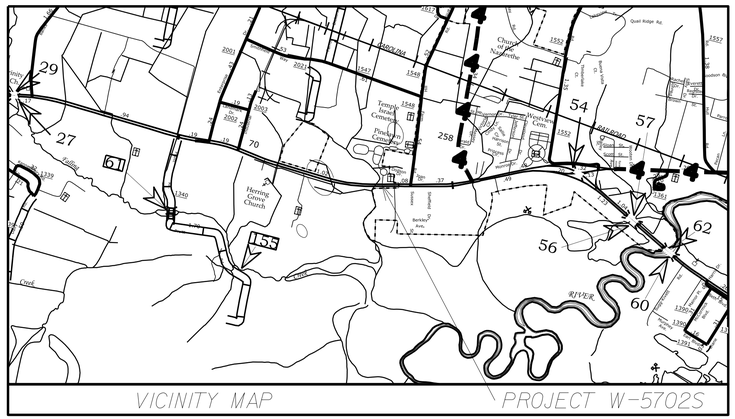
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

LENOIR COUNTY

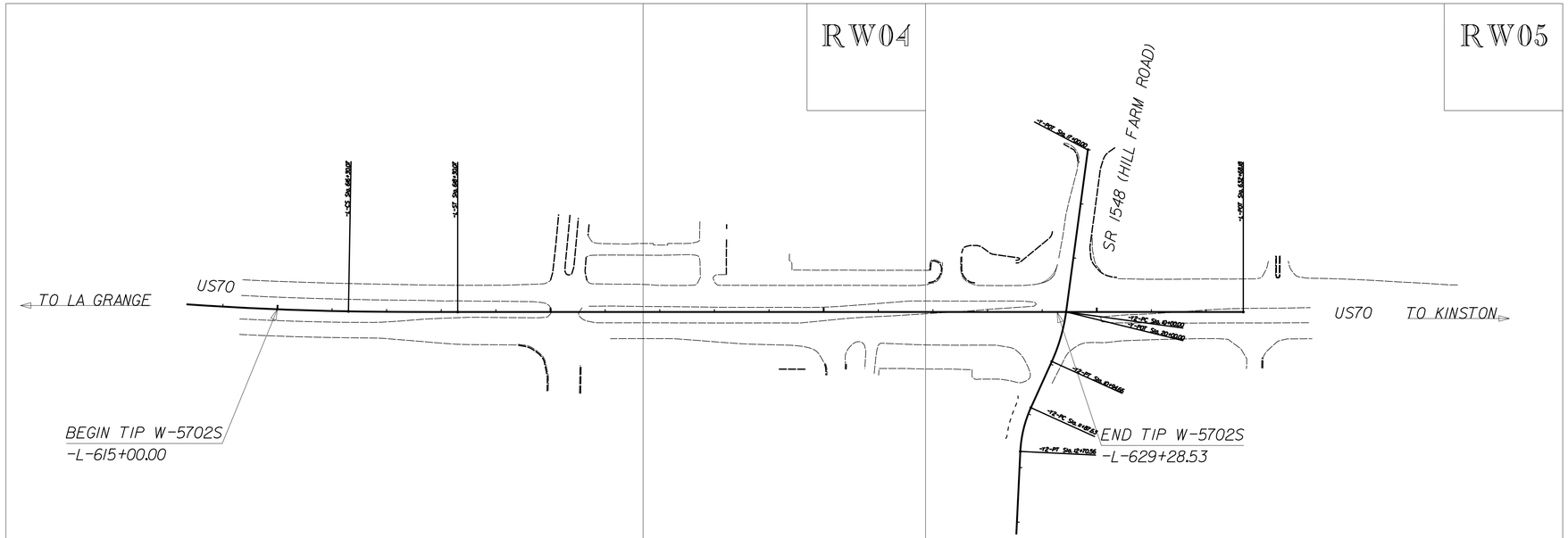
LOCATION: US 70 AT ENTRANCES OF PINELAWN CEMETERY AND LOWES HOME IMPROVEMNT

TYPE OF WORK: CONSTRUCTION OF REDUCED CONFLICT INTERSECTION



VICINITY MAP PROJECT W-5702S

NC GRID
NAD 83/NSRS 2007



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GRAPHIC SCALES

50 25 0 50 100

PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "-BL-3" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 552,658.155(ft) EASTING: 2,403,031.715(ft) ELEVATION: 43.825(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999872605
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "-BL-3" TO -L- STATION 581+01.25 IS S 87^05'51" W 4,338.75(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

DIVISION OF HIGHWAYS

1037 WH SMITH BLVD., GREENVILLE, NC 27835

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
DECEMBER 2019

LETTING DATE:
NOVEMBER 2022

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-5303 LAND SURVEYOR CASEY KENNETH WHITLEY

DocuSigned by: Casey Whitley
08/18/2022
SIGNATURE: ***Date:***

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

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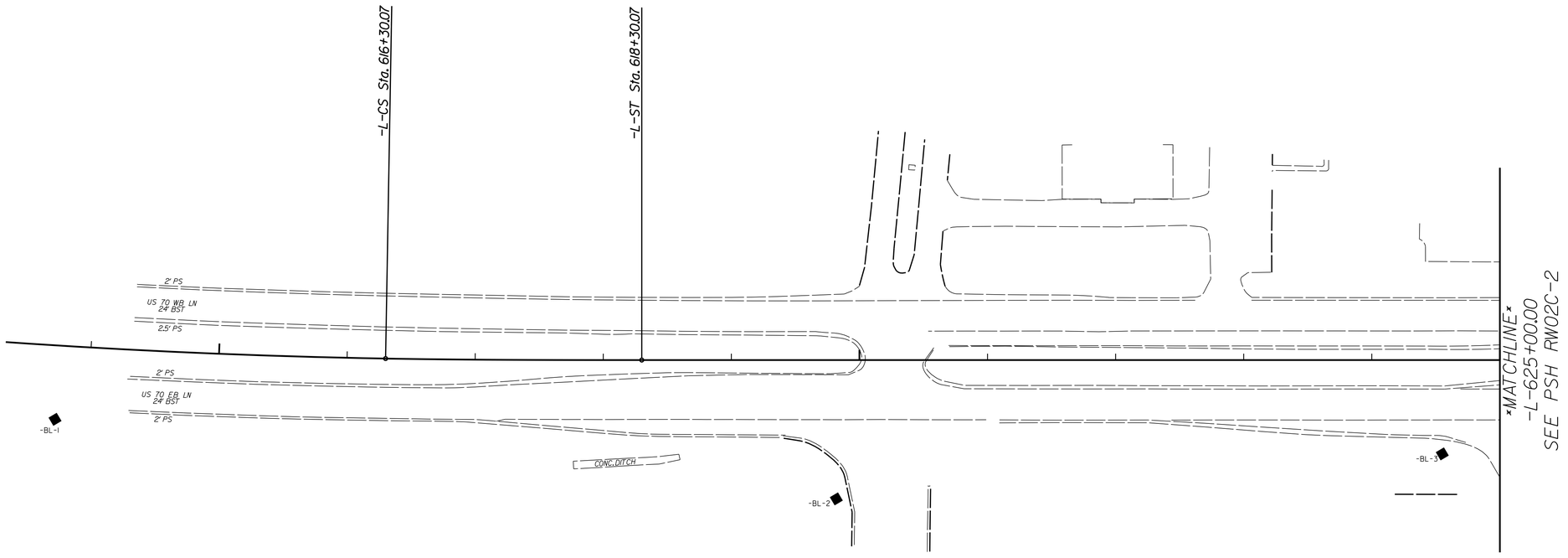
PROJECT REFERENCE NO.	SHEET NO.
W-5702S	RW02C-1

SURVEY CONTROL SHEET W-5702S

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

NC GRID
NAD 83/NSRS 2007

SEE SHEET RW02C-3
FOR FUTHER
ALIGNMENT AND CONTROL DETAILS



NOTES:

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

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
W-5702S	RW02C-2

SURVEY CONTROL SHEET W-5702S

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

NC GRID
NAD 83/NSRS 2007

SEE SHEET RW02C-3
FOR FUTHER
ALIGNMENT AND CONTROL DETAILS

-Y-POT Sta. 17+00.00

SR1548 (HALL FARM ROAD)
CONC.ISLAND

-CP-55

-L-POT Sta. 632+68.18

MATCHLINE -L-625+00.00

SEE PSH RW02C-1

US 70 WB LN
24 BST

US 70 EB LN
24 BST

-Y2-PC Sta. 10+00.00

-Y-POT Sta. 20+00.00

-BL-4

-Y2-PT Sta. 10+94.66

-Y2-PC Sta. 11+87.63

-Y2-PT Sta. 12+70.56

NOTES:

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

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
W-5702S	RW02C-3

SURVEY CONTROL SHEET W-5702S

BASELINE

BL

POINT	DESC.	NORTH	EAST	ELEVATION
1	-BL-1	552415.4400	2401975.8920	44.85
2	-BL-2	552506.7290	2402582.1610	42.91
3	-BL-3	552658.1550	2403031.7150	43.83
4	-BL-4	552844.9470	2403693.7540	44.88

"ADDITIONAL CONTROL"
CP #55
N 552965.7770 E 2403525.7880
ELEV=44.07'

EXISTING ALIGNMENT DESCRIPTIONS

L

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	552438.454	2398698.533											
LINE			S 88°07'27.9" E	1904.06									
TS	552376.136	2400601.575											
SPIRAL			S 88°27'27.9" E	200.00						01°00'00.0"(LT)	200.00	133.34	66.67
SC	552370.753	2400801.500											
CURVE			N 83°45'06.4" E	1421.09	14°14'51.3"(LT)	01°00'00.0"	1424.76	716.07	5729.58				
CS	552525.419	2402214.148											
SPIRAL			N 75°57'40.8" E	200.00						01°00'00.0"(LT)	200.00	133.34	66.67
ST	552573.934	2402408.172											
LINE			N 75°37'40.8" E	1438.11									
POT	552930.897	2403801.279											

Y

POINT	N	E	BEARING	DIST
POT	553148.322	2403451.926		
LINE			S 06°43'47.9" E	300.00
POT	552850.389	2403487.083		

Y2

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	552850.389	2403487.083							
CURVE			S 01°43'25.8" W	94.33	16°31'06.7"(RT)	17°27'00.6"	94.66	47.66	328.34
PT	552756.098	2403484.245							
LINE			S 09°58'59.1" W	92.97					
PC	552664.534	2403468.128							
CURVE			S 00°48'55.5" E	82.44	21°35'49.1"(LT)	26°02'36.7"	82.93	41.96	220.00
PT	552582.106	2403469.301							
LINE			S 11°36'50.0" E	328.33					
POT	552260.495	2403535.400							

NOTES:

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

REVISIONS

8/17/99

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8/17/99

REVISIONS

RIGHT OF WAY CONTROL SHEET W-5702S

PROJECT REFERENCE NO.	SHEET NO.
W-5702S	RW03E-1

PROJECT PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL DocuSigned by: Casey Whitley L-5303 10247 LAND SURVEYOR CASEY KENNETH WHITLEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Casey Kenneth Whitley, 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) (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 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 20th day of June, 2022.

---------- L-5303

Professional Land Surveyor PLS # Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	621+07.34	-75.00	552715.4099	2402658.1505
L	621+07.34	-65.00	552705.7229	2402660.6326
L	622+00.00	-75.00	552738.4090	2402747.9081
L	622+57.34	-90.00	552767.1730	2402799.7329
L	622+57.34	-85.00	552762.3295	2402800.9740
L	624+22.34	-90.00	552808.1287	2402959.5692
L	624+22.34	-65.00	552783.9111	2402965.7746

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	622+57.34	-105.00	552781.7036	2402796.0097
L	623+46.57	-105.00	552803.8522	2402882.4483
L	623+46.57	-90.00	552789.3216	2402886.1716

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	18+32.05	-35.00	553021.2797	2403502.1606
Y	18+32.05	-61.27	553024.3584	2403528.2488
Y	18+52.97	-61.27	553003.5889	2403530.6998
Y	18+52.97	-35.00	553000.5102	2403504.6116

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8/17/99

REVISIONS

I, Casey Kenneth Whitley, 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 20th day of June, 2022.

Professional Land Surveyor — L-5303 PLS # — Seal

PROJECT REFERENCE NO.	SHEET NO.
W-5702S	RW04

PROJECT PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-5303 LAND SURVEYOR CASEY KENNETH WHITLEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NC GRID
NAD 83/NSRS 2007

615

620

-L-CS Sta. 616+30.07

-L-ST Sta. 618+30.07

-L-
PIs Sta 616+96.74
Θs = 1° 00' 00.0"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

BLIZZARD JOHN DOUGLAS JR
HIGHWAY 70 WEST
PO BOX 6059
KINSTON,NC 28504
DB 938 PG 553
27.24 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
WB 22 PG 91
23.45 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
WB 22 PG 91
0.68 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
0.95 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
WB 22 PG 91
0.95 AC

EXISTING R/W LINE

2' PS
US 70 WB LN
24' BST
2.5' PS
2' PS
US 70 EB LN
24' BST
2' PS

CONC.DITCH

-BL-1
-BL-2
-BL-3

WARREN MARY H HEIRS
110 ASBURY ROAD
GREENVILLE,NC 27858
DB "UNKNOWN" PG "UNKNOWN"
140.21 AC

ARCP WY KINSTON NC LLC
2325 E CAMELBACK RD,SUITE 1100
PHOENIX AZ,85016
DB 1719 PG 311
1.59 AC

CHICK FIL A INC
5200 BUFFINGTON RD
ATLANTA GA,30349
DB 1609 PG 477
0.93 AC

BEST LOCATIONS LLC
170 WIND CHIME CT
RALEIGH NC,27615
DB 1345 PG 576
1.27 AC

MATCHLINE
-L-625+00.00
SEE PSH RW05

NOTES:

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

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$$$$USERNAME$$$$

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-5702S	RW05

PROJECT PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-5303 CASEY KENNETH WHITLEY LAND SURVEYOR

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Casey Kenneth Whitley, 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 20th day of June, 2022.

---------- L-5303
Professional Land Surveyor PLS # Seal

NC GRID
NAD 83/NSRS 2007

-Y-POT Sta. 17+00.00

S 16° 43' 47.8" E

630

70.00' RT

SR1548 (HALL FARM RD) CONC.ISLAND

+32.05 -Y- 35.00' LT

+32.05 -Y- 61.21' LT

+52.91 -Y- 61.21' LT

+52.97 -Y- 35.00' LT

FDE

FDE

FDE

-CP-55

EXISTING R/W LINE

EXISTING R/W LINE

EXISTING R/W LINE

2

CORRAL GROUP OF KINSTON
PO BOX 1908
ROCKY MOUNT, NC 27804
DB 1076 PG 292
1.91 AC

MURPHY OIL USA INC
PO BOX 7300
EL DORADO, AR 71730
DB 1351 PG 171
0.85 AC

3

R C G 2 LCC
PO BOX 7865
ROCKY MOUNT, NC 27804
DB 1113 PG 435
0.96 AC

-L- 632+68.18

+06.71 -L- 70.00' LT

2" PS

US 70 WB LN 24 BST

60.00'

N 75° 37' 40.8" E

-Y2-PC Sta. 10+00.00

-Y-POT Sta. 20+00.00

60.00'

10

-BL-4

+68.18 -Y- 35.00' LT

+58.82 -Y- 35.00' LT

+49.46 -Y- 35.00' LT

US 70 EB LN 24 BST

ECM

EIP

EIP

EXISTING R/W LINE

MATCHLINE -L- 625+00.00 SEE PSH RW04

POOLE WALTER REALTY INC
4206 W VERNON AVE
KINSTON, NC 28504
DB 1007 PG 706
1.85 AC

EXISTING R/W LINE

60.00'

N 59° 59' 39.6" W

-Y2-PT Sta. 10+94.66

MCDONALDS USA LLC
2500 WOOTEN AVE
WILSON, NC 27893
DB 1204 PG 539
0.92 AC

EXISTING R/W LINE

-Y2-PC Sta. 11+87.63

-Y2-PT Sta. 12+70.56

-Y2-C1
PI Sta 10+47.66
Δ = 16° 31' 06.7" (RT)
D = 17° 27' 00.6"
L = 94.66'
T = 47.66'
R = 328.34'

-Y2-C2
PI Sta 12+29.59
Δ = 21° 35' 49.1" (LT)
D = 26° 02' 36.7"
L = 82.93'
T = 41.96'
R = 220.00'

NOTES:

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

04-AUG-2022 10:22
C:\DGN\ROADWAY\W-5702S US70_LOWES\W5702S_PSH RW05.dgn
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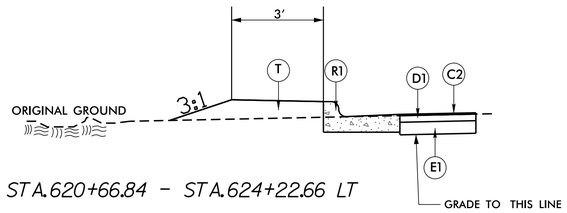
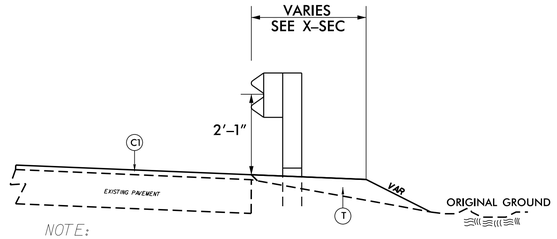
C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 3.0″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE PLACED IN TWO LAYERS OF 1.5″ IN DEPTH
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROP. 2.5′ CONCRETE CURB AND GUTTER
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

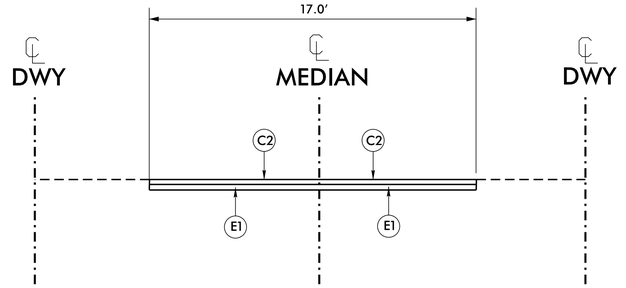
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



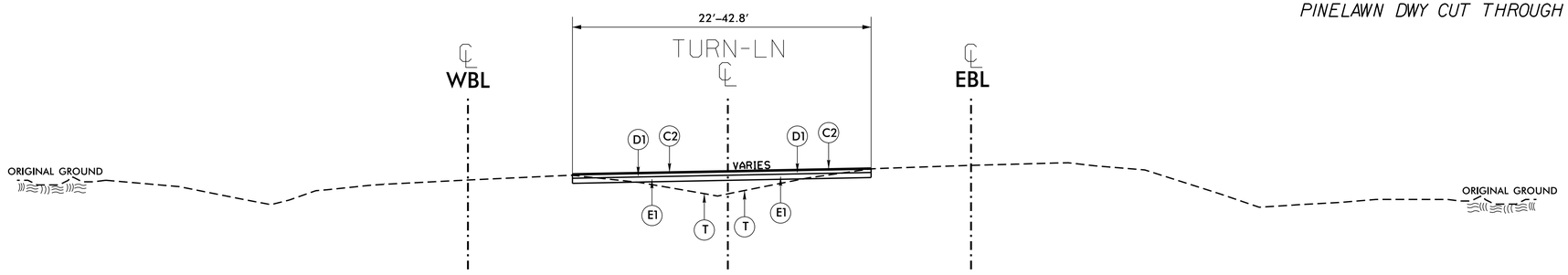
-L- STA.620+66.84 - STA.624+22.66 LT



NOTE:
FACE OF STEEL BEAM GUARDRAIL FLUSH WITH EOP (ALL LOCATIONS)
SEE PSH3A FOR SHOULDER WIDTH



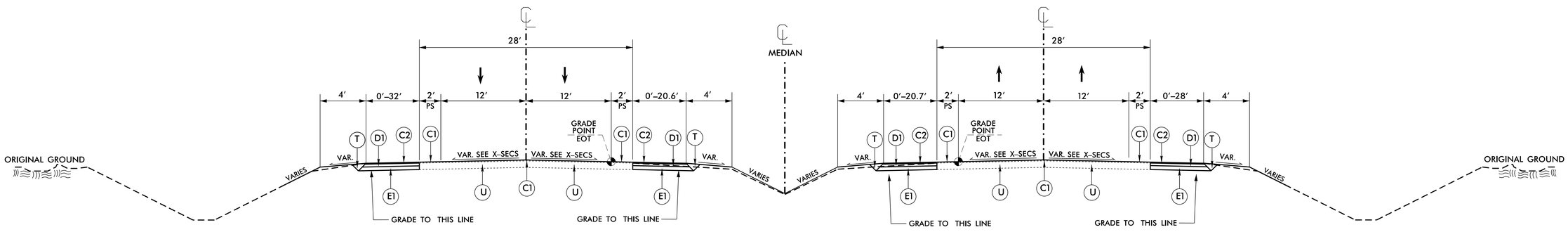
USE TYPICAL SECTION *3
PINELAWN DWY CUT THROUGH ACCESS



USE TYPICAL SECTION *1
-L- STA.615+33.27 - STA.616+36.77
-L- STA.623+03.12 - STA.624+09.74

US70 WB LN

US70 EB LN



USE TYPICAL SECTION *2
-L- STA.615+00.00 - STA.624+50.00

DRAWING NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
W5702S	2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F YEUNG
10/05/2022

PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F YEUNG
10/05/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS 8/17/99

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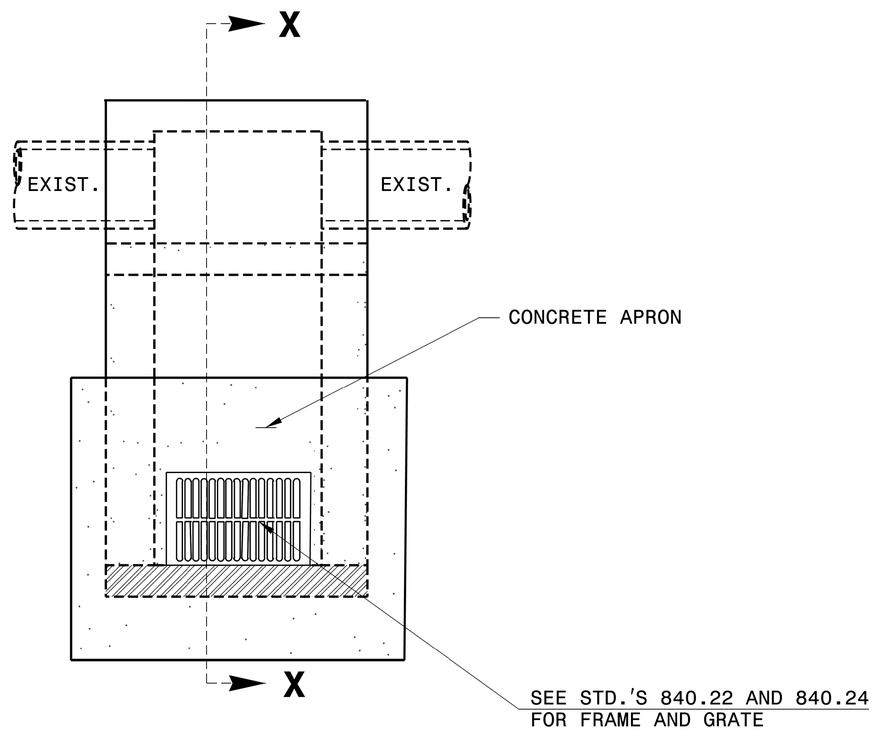
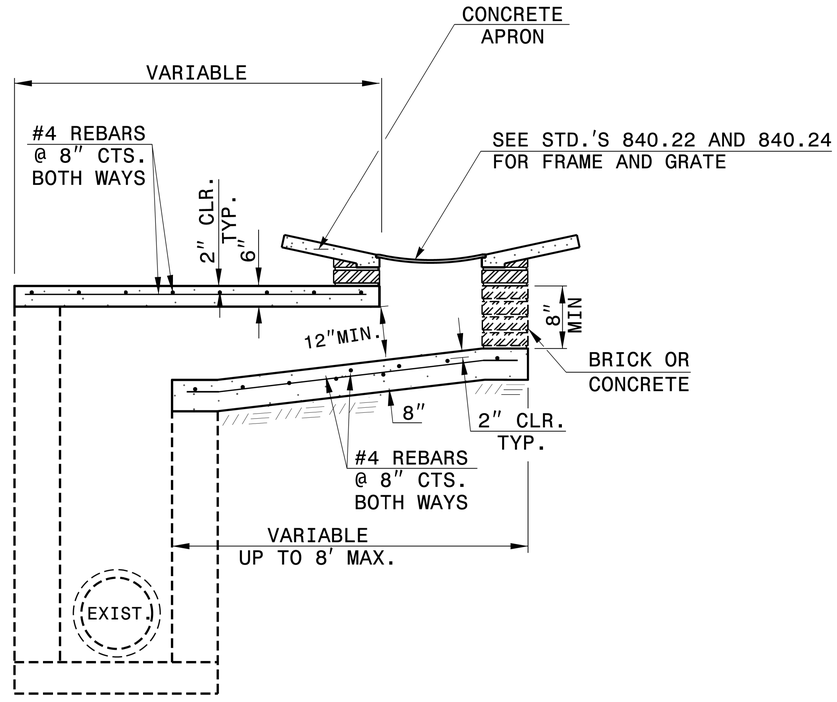
PROJECT REFERENCE NO.	SHEET NO.
W5702S	2A

8/17/99

REVISIONS



PLAN



SECTION X-X

NOTES:

MORTAR JOINTS ½" TO ¼" THICK.

USE CLASS "B" CONCRETE THROUGHOUT.

USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.

CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

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

PROPOSED OFFSET DROP INLET

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: rnbritt DATE: 4/13/15
CHECKED BY: _____ DATE: _____
FILE SPEC.: nbritt/english/hydro/840d06 offset boxes.dgn

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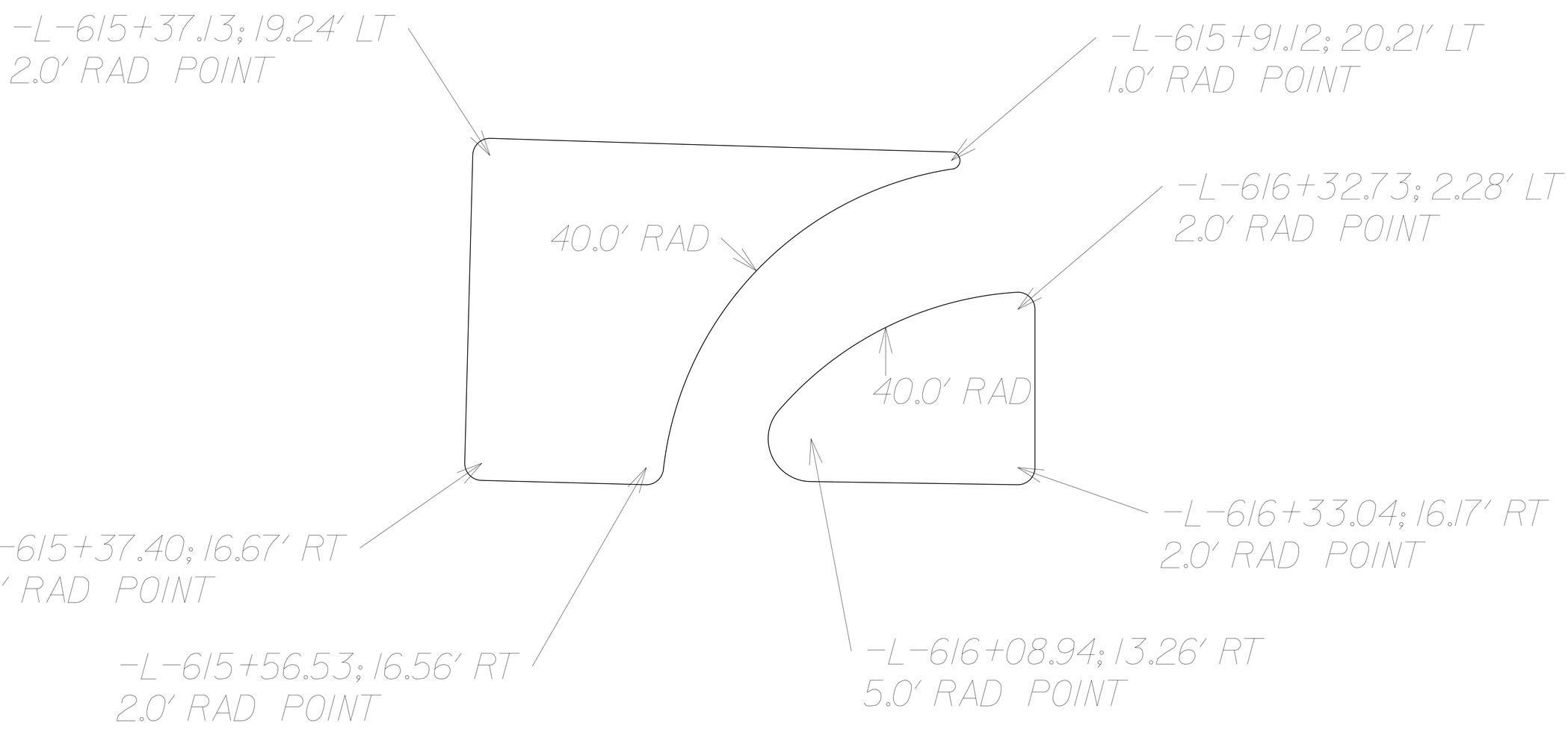
PROJECT REFERENCE NO.	SHEET NO.
W5702S	2B1

MONOLITHIC CONCRETE ISLAND LAYOUT



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8/17/99

REVISIONS

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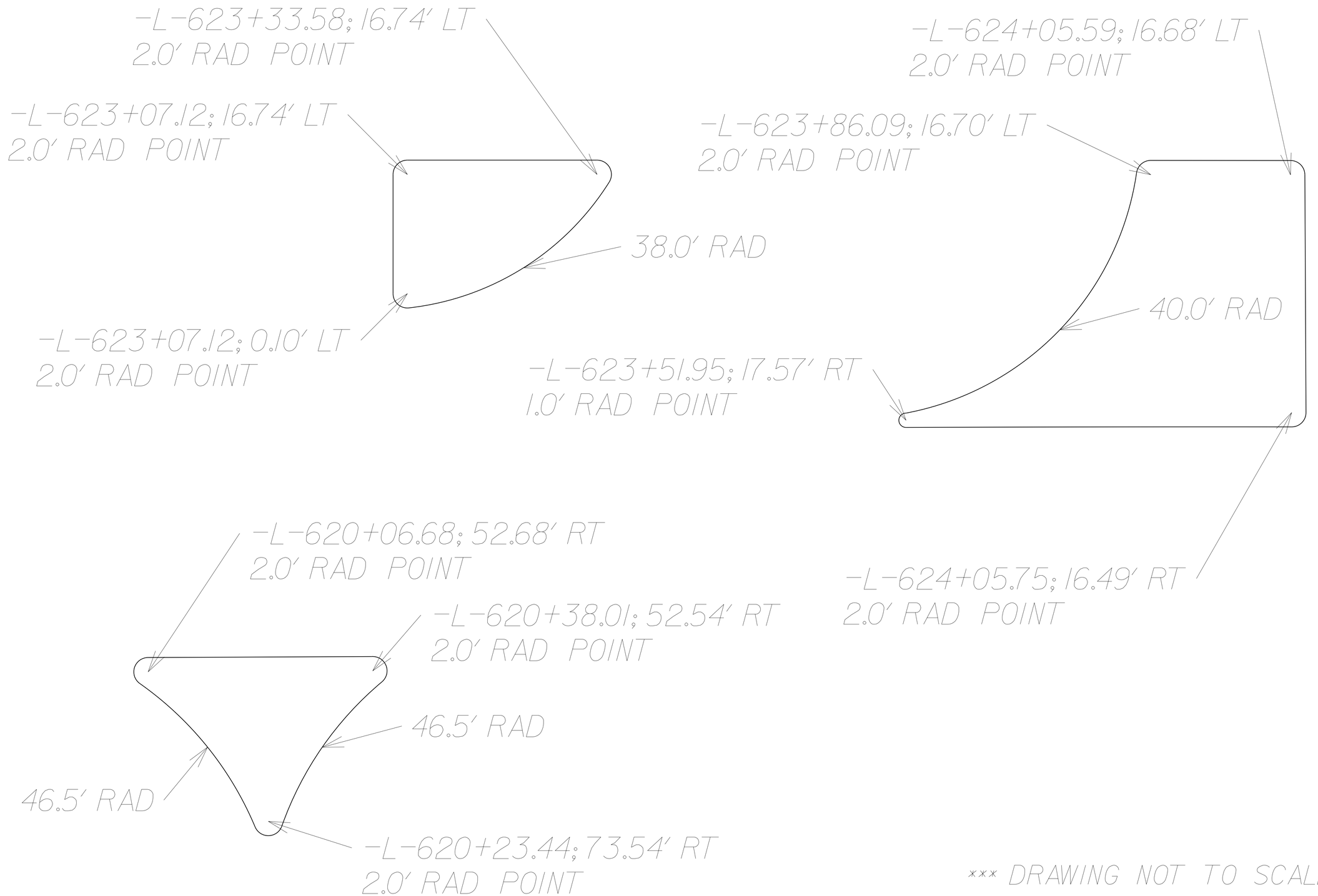
PROJECT REFERENCE NO.	SHEET NO.
W5702S	2B2

MONOLITHIC CONCRETE ISLAND LAYOUT



*** DRAWING NOT TO SCALE ***

REVISIONS

8/17/99

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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W5702S	3A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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".

SUB–REGIONAL & REGIONAL LIST OF PIPES, ENDWALLS, ETC.

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE	DRAINAGE PIPE THICKNESS OR GAUGE	C.S. PIPE SIZE	C.S. PIPE THICKNESS OR GAUGE	R.C. PIPE (CLASS III) SIZE	R.C. PIPE (CLASS IV) SIZE	DOT SUPPLIED 95" X 67" CAAP W/HEADWALLS	** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	*** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. 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')	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A (5.0' THRU 10.0')	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. B (10.0' AND ABOVE)	T.B.J.B. STD. 840.34	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION CATCH BASIN	CONCRETE TRANSITIONAL SECTION DROP INLET (840.15)	DROP INLET FRAME AND GRATES (840.16)	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	M.H. FRAME & COVER STD. 840.54	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-618+09.02	RT	1		40.5																																ADJUST DI SEE SHEET 2A
-L-621+40.34	RT	2		43.4																																CONVERT DI TO JUNCTION BOX W/MH
-L-621+45.83	LT	3		41.2																	1														
-L-621+69.30	LT	4	5	42.1	37.28	37.44						8'												1												CONVERT DI TO CB
-L-621+69.25	LT		5	42.2																	1														
-L-622+52.94	LT	4	8	42.6	37.28	39.65							166'								1														
-L-623+36.57	LT	8	7	43.0	39.65	39.89						12'									1				1										
-L-623+16.13	LT	7	6	42.2	39.89	40.00						37'									1														
-L-623+76.41	LT	8			39.65	39.81							80'																						
-L-624+28.47	RT	9		41.5																	1														
-Y-18+42.05	LT	10			41.00	41.48						24'																								
-L-618+40	RT	11		38.4																																ADJUST DI
-L-624+26	RT	12			41.13	41.00						80'																						0.3990			
												164'	248'								6			1	1						7		1		0.3990		244'	

SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	BOX CULVERT EXCAVATION	UNDERCUT	EMBT + %	SHOULDER BORROW	WASTE
–L– 615+00.00 – 626+00.00	978	0	0	1916	0	938
–L– 616+00.00 – 619+50.00					114	
–L– 620+88.60 – 623+82.46					106	
SUB TOTAL	978	0	0	1,916	220	938
SAY	980	0	0	1,920	220	720

PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
–L–	616+37.10 – 623+03.12	CL	730
–L–	622+74.00 – 623+21.86	LT	78
–L–	624+09.70 – 626+57.81	CL	232
TOTAL			1040
SAY			1040

NOTE:

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

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

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVED	LENGTH DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W APPROACH END	W TRAILING END	ANCHORS CAT–1	ANCHORS TL–3	IMPACT ATTENUATOR TYPE 350 PERMITTED NO.	IMPACT ATTENUATOR TYPE 350 PERMITTED G	IMPACT ATTENUATOR TYPE 350 PERMITTED NG	REMARKS
–L–	616+69.84		RT				616+69.84		4.0'	6.0'	50'–0"		1.0'			1				
–L–	617+19.14	619+31.06	RT	212.5'	0'	0'			4.0'	6.0'										
–L–		619+40.93	RT					619+40.93	4.0'	6.0'					1					
TOTAL				212.5'					4.0'	6.0'	50'–0"				1	1				

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

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PROJECT REFERENCE NO.	SHEET NO.
W-5702S	4
R/W SHEET NO.	RW04

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F YEUNG
10/05/2022

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F YEUNG
10/05/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

REVISIONS

-L- 620+47.51
133.87' LT
-L- 620+31.66
134.81' LT
5.0' RAD TO BC
8'X12' CURB
5.0' RAD TO BC
-L- 620+36.63
129.32' LT
-L- 620+42.53
129.32' LT

-L- 620+33.73
109.32' LT
-L- 620+39.79
109.32' LT
5.0' RAD TO BC
8'X12' CURB
5.0' RAD TO BC
-L- 620+44.77
103.87' LT
-L- 620+28.75
104.81' LT

615

620

-L-CS Sta. 616+30.07

-L-ST Sta. 618+30.07

-L-
PIs Sta 616+96.74
Θs = 1°00' 00.0"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

NC GRID
NAD 83/NSRS 2007

BLIZZARD JOHN DOUGLAS JR
HIGHWAY 70 WEST
PO BOX 6069
KINSTON,NC 28504
DB 938 PG 553
27.24 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
MB 22 PG 91
23.45 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
MB 22 PG 91
0.68 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
MB 22 PG 91
0.95 AC

STONEMOR NORTH CAROLINA LLC
3600 HORIZON BLVD.,SUITE 100
TREVOSE PA,19053
DB 1458 PG 293
MB 22 PG 91
0.95 AC

WARREN MARY H HEIRS
110 ASBURY ROAD
GREENVILLE,NC 27858
DB "UNKNOWN" PG "UNKNOWN"
140.21 AC

ARCP WY KINSTON NC LLC
2325 E CAMELBACK RD,SUITE 1100
PHOENIX AZ,85016
DB 1719 PG 311
1.59 AC

CHICK FIL A INC
5200 BUFFINGTON RD
ATLANTA GA,30349
DB 1609 PG 477
0.93 AC

BEST LOCATIONS LLC
170 WIND CHIME CT
RALEIGH NC,27615
DB 1345 PG 576
1.27 AC

-L- 620+88.14 EXIST
-L- 620+12.53 EXIST
-L- 620+68.70 EXIST
-L- 620+04.87 EXIST
-L- 620+66.84 94.62' LT
BEG 2'-6" C&G
-L- 620+88.60 58.54' LT
-L- 621+08.41 n20.56' LT
-L- 621+60.00 58.54' LT ANCHOR
CALCULATED SS INV=33.39'
-L- 621+87.79 60.45' LT
-L- 622+73.60 92.77' LT
BEG.8'X12' CURB
-L- 623+21.82 92.81' LT
END 8'X12' CURB
-L- 624+22.66 51.14' LT
END 2'-6" C&G
-L- 624+50.00
-L- 624+50.00 EXIST
-L- 624+35.24 EXIST
-L- 624+09.83 EXIST
-L- 623+26.56 79.65' LT
-L- 623+82.46 EXIST
CALCULATED SS INV=34.41'
-L- 623+03.12 20.63' LT
-L- 624+09.65 20.67' LT
-L- 623+03.12 2.10' RT
-L- 621+04.54 8.31' RT
-L- 621+03.50 60.79' RT
-L- 619+50.93 8.32' LT
-L- 619+50.93 20.20' RT
-L- 619+41.29 EXIST
-L- 619+92.47 EXIST
-L- 617+68.66 60.50' RT
-L- 616+11 86.77 40' RT
-L- 616+36.70 4.40' LT
-L- 616+37.10 EXIST
-L- 615+33.09 EXIST
-L- 615+33.44 EXIST
-L- 615+63.70 EXIST
-L- 615+00.00 EXIST
-L- 620+54.67 EXIST
-L- 619+80.79 EXIST

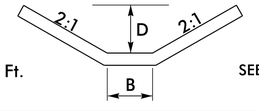
MATCHLINE -L- 625+00.00
SEE PSH 5

EIP

S 75°37'41" W 65.00'
S 75°37'41" W 150.00'
N 75°37'41" E 150.00'
S 14°22'19" W 50.00'
N 14°22'19" W 65.00'
S 14°22'19" W 290.13'
S 14°22'19" E 65.00'

ISFB
SEE DET.W-1 FOR SIGN & REPLACE CONC.PAD & DYDD
RECONSTRUCT EXIST DI
PROP.GUARDRAIL
PROP.GREU TL-3 AP
PROP.GRNJ CAT-1
CONC.COLLAR
ANCHOR
SIGN
SIGNS
EXISTING R/W LINE
O/H PWR
SS
SS GRAVITY TOP=40.68' INV=32.48'
SS GRAVITY TOP=41.78' INV=29.28'
SS GRAVITY TOP=42.77' INV=34.75'
SS GRAVITY TOP=39.30' INV=27.30'
ASPHALT CURB
MONUMENT
REMOVE
ADJ DI
Conv. DI TO CB
Conv. DI TO I JB W/MH
RECONSTRUCT DI
10.0' RAD TO EOP
25.0' RAD TO EOP
50.0' RAD TO EOP
202.0' RAD TO EOP
15" RCP
18" RCP
24" RCP
-0.4%
+0.2%
-2.9%
+20.76%
US 70 WB LN 24' BST
US 70 EB LN 24' BST
2' PS
2.5' PS
-BL-1
-BL-2
-BL-3
BZ 1
BZ 2

DETAIL 1
4" CONCRETE PAVED DITCH
(Not to Scale)



Min. D = 1.0 Ft.
B = 2 Ft.

SEE STD DRAWING 850.01 BASE DITCH

FROM -L- STA. 617+77.61 TO -L- STA. 618+59.40 RT

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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-5702S	5
R/W SHEET NO.	RW05

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F YEUNG

10/05/2022

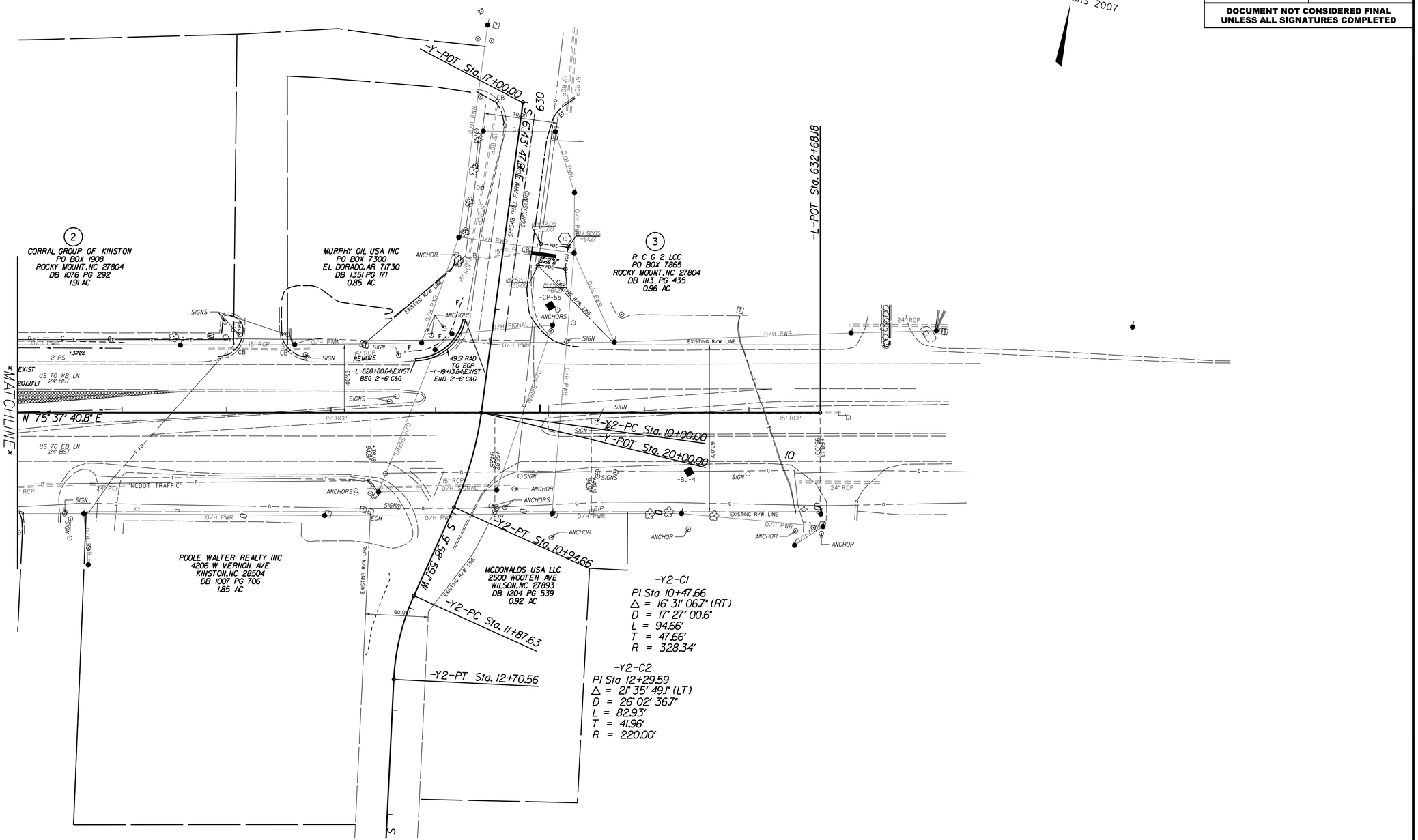
HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F YEUNG

10/05/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NC GRID
NAD 83/NSRS 2007



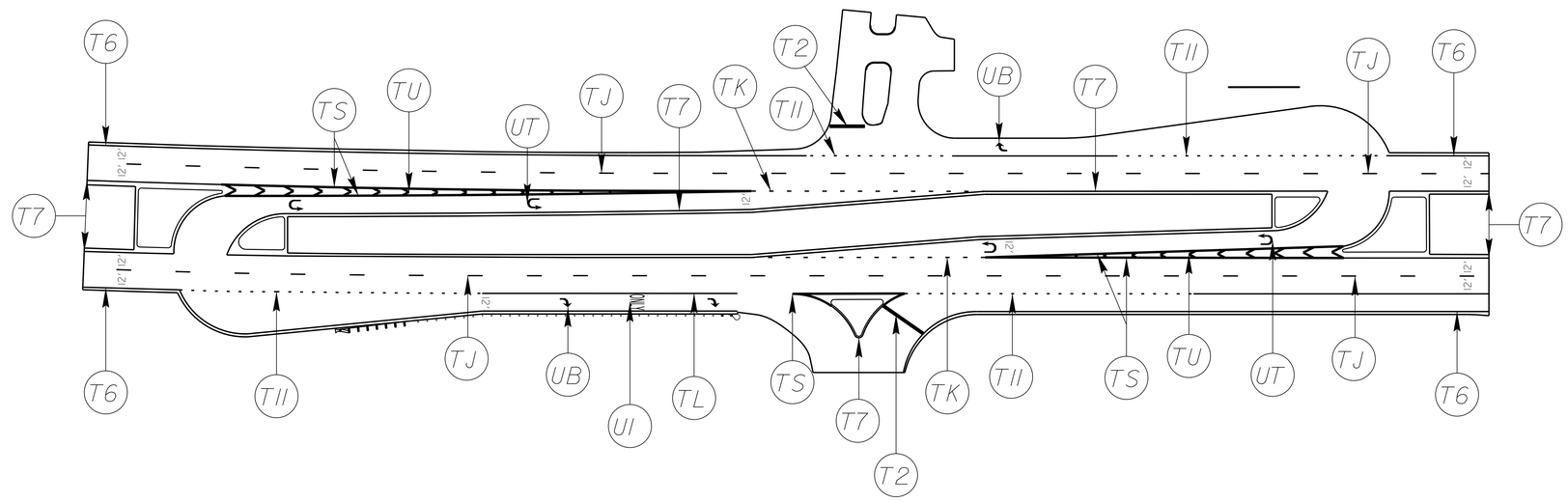
PROJECT REFERENCE NO.	SHEET NO.
W5702S	PMP1

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES AND SYMBOLS

TJ - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) 10'-30'/SP SKIP LINE
TK - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) 3'-9'/SP MINI SKIP LINE
TL - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) SOLID LANE LINE
TS - THERMOPLASTIC PAVEMENT MARKING (12" WHITE, 90MILS) SOLID GORE LINE
TU - THERMOPLASTIC PAVEMENT MARKING (12" WHITE, 90MILS) DIAGONAL LINE
T2 - THERMOPLASTIC PAVEMENT MARKING (24" WHITE, 90MILS) STOP BAR
T6 - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) SOLID EDGE LINE
T7 - THERMOPLASTIC PAVEMENT MARKING (6" YELLOW, 90MILS) SOLID EDGE LINE
TII - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) 2'-6'/SP MINI SKIP LINE
UB - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) RIGHT ARROW
UI - THERMOPLASTIC PAVEMENT MARKING CHARACTER (WHITE, 90MILS)
UT - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) U-TURN ARROW

NC GRID
NAD 83/NSRS 2007



NOTE

PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). QUANTITIES FOR THESE ITEMS HAVE BEEN ACCOUNTED FOR IN THE CONTRACT BID FORM.

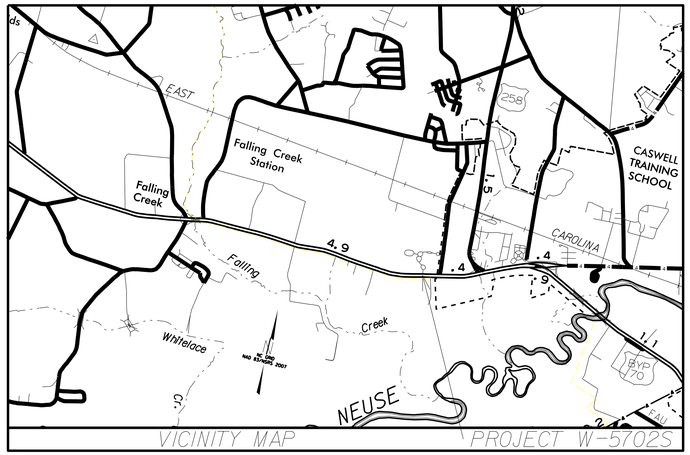
FINAL SIGNAGE WILL BE PREFORMED BY NCDOT TRAFFIC SERVICES
PROVIDE A MINIMUM 2 WEEK NOTICE

8/17/99

REVISIONS

09/08/99

TIP PROJECT: W5702S



VICINITY MAP PROJECT W-5702S

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

NC GRID
NAD 83/NSRS 2007

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W5702S	EC1	6

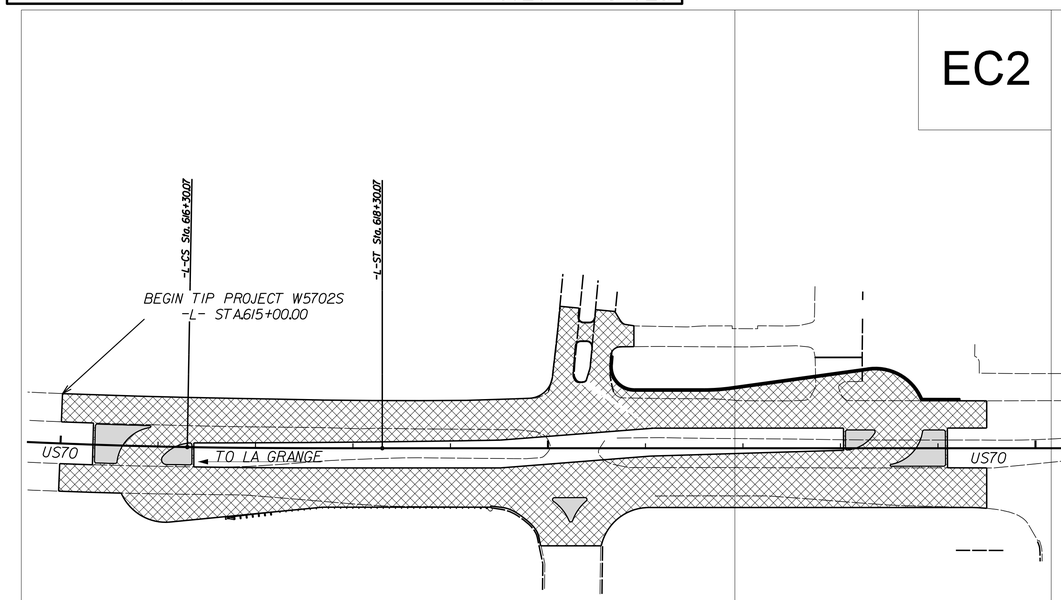
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44848.1.19	HSIP-0070(229)	PE
44848.2.19	HSIP-0070(229)	RW
44848.3.19	HSIP-0070(229)	CONST

LOCATION: US 70 AT ENTRANCES OF PINELAWN CEMETERY AND LOWES HOME IMPROVEMENT

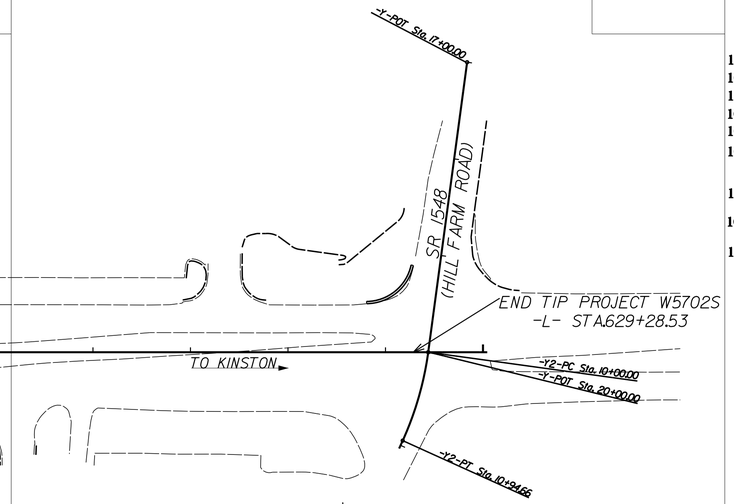
TYPE OF WORK: CONSTRUCTION OF REDUCED CONFLICT INTERSECTION

LENOIR COUNTY

EC2



EC3



EROSION AND SEDIMENT CONTROL MEASURES

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALES

50 25 0 50 100
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 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

2018 STANDARD SPECIFICATIONS

DESIGNED BY:

TIMOTHY PINKHAM 3510

NAME *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

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PROJECT REFERENCE NO.	SHEET NO.
W5702S	EC-1A

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 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

REVISIONS

8/17/99

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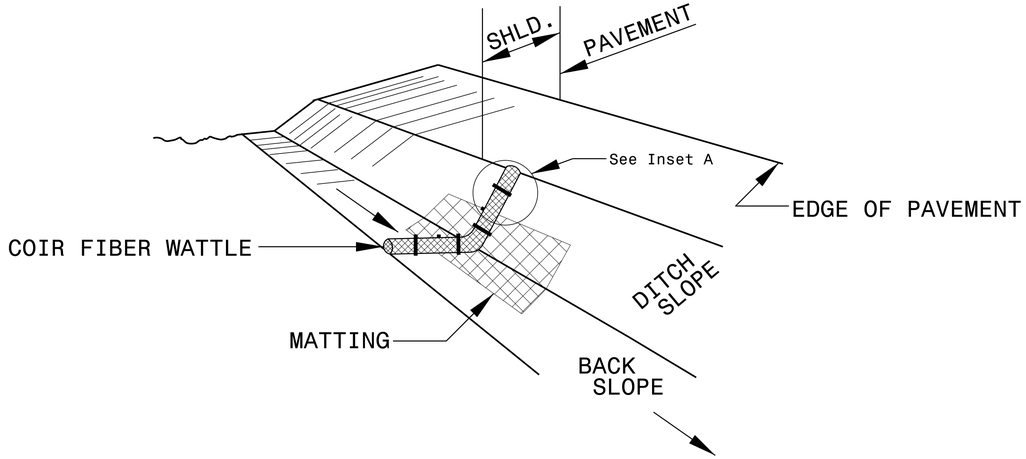
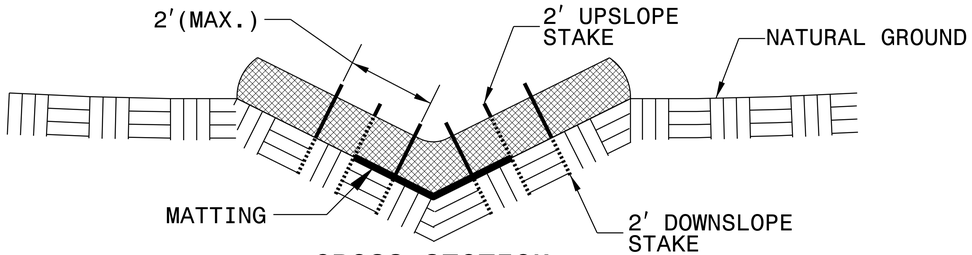
PROJECT REFERENCE NO.	SHEET NO.
W5702S	EC-1B

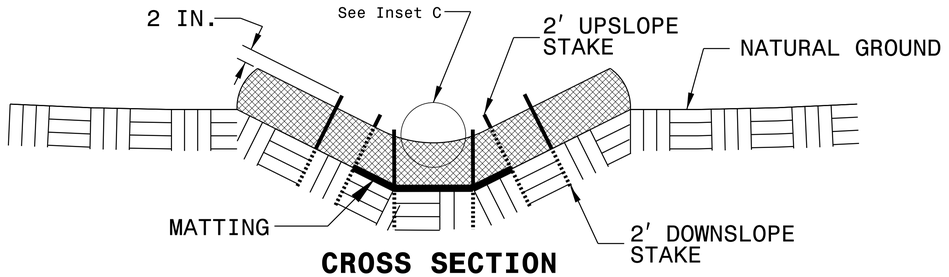
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

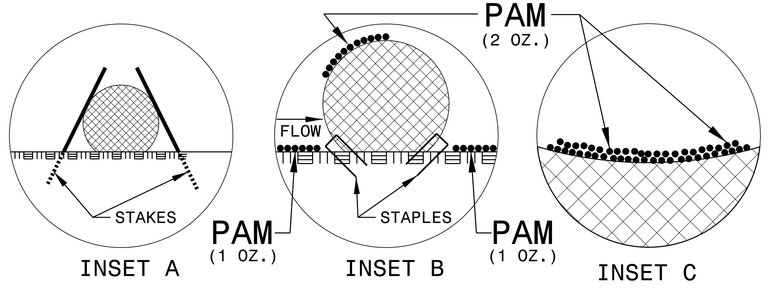
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

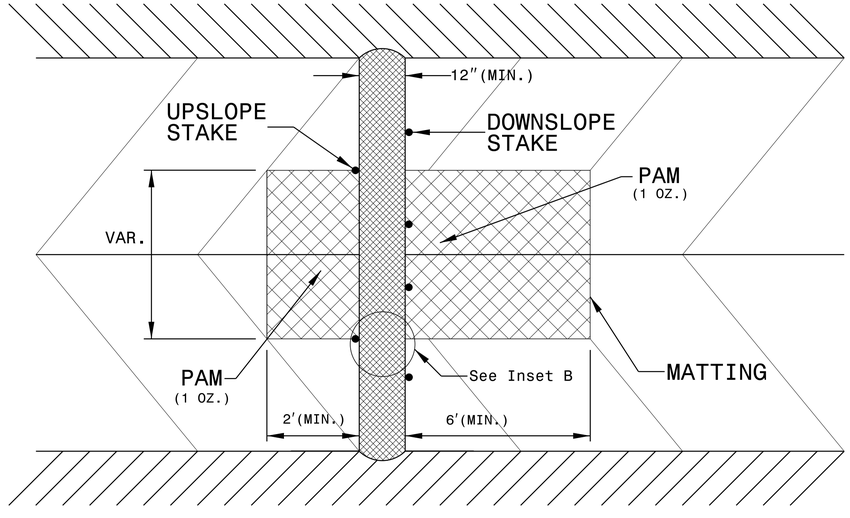
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
W5702S	EC-1C

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	616+00.00	617+00.00	RT	130
				SUBTOTAL	130
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					
				TOTAL	130
				SAY	150

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
W5702S	EC2

REVISIONS 8/17/99

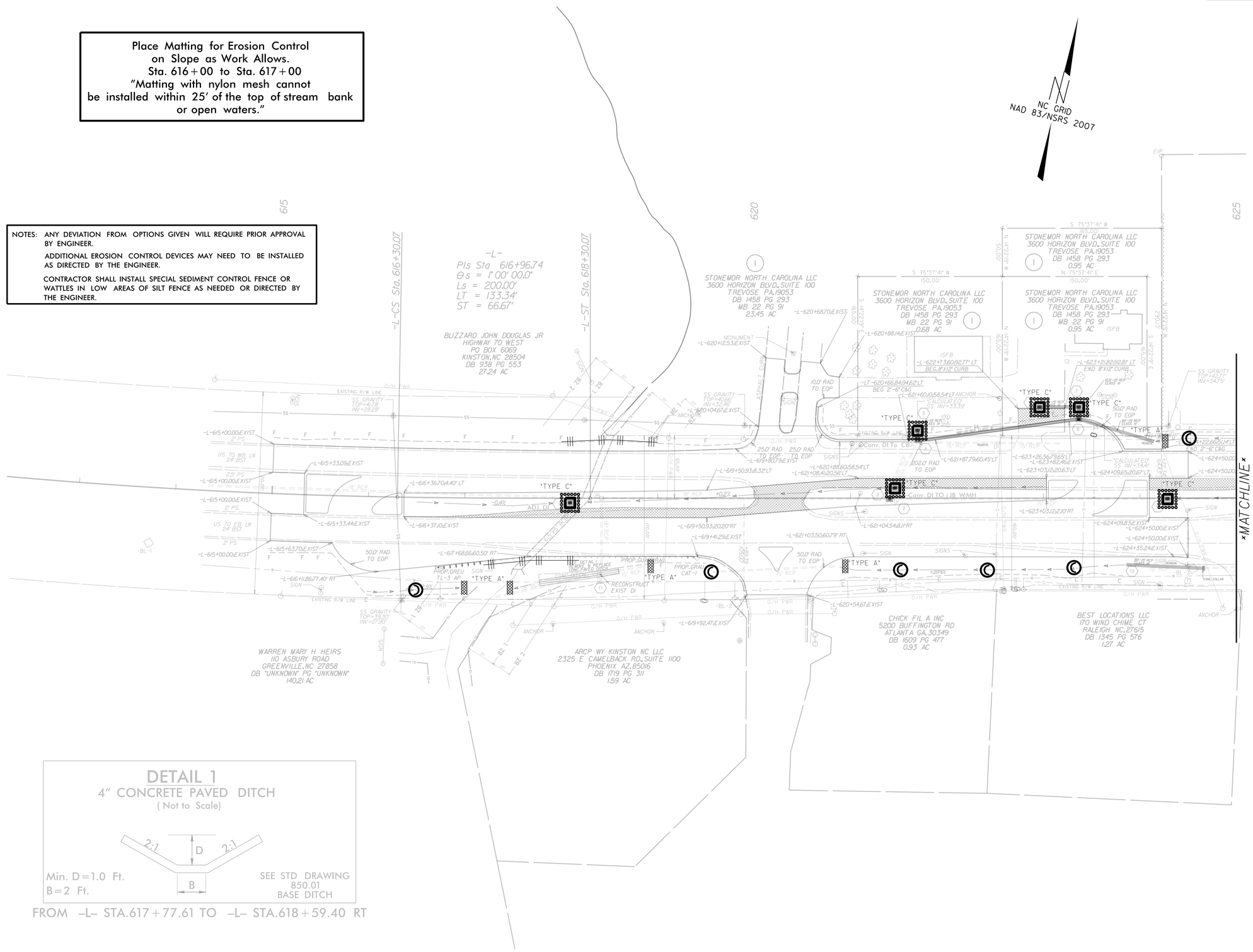
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 616+00 to Sta. 617+00
"Matting with nylon mesh cannot
be installed within 25' of the top of stream bank
or open waters."

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

NC GRID
NAD 83/NSRS 2007



DETAIL 1
4" CONCRETE PAVED DITCH
(Not to Scale)

Min. D=1.0 Ft.
B=2 Ft.

SEE STD DRAWING
850.01
BASE DITCH

FROM -L- STA.617+77.61 TO -L- STA.618+59.40 RT

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PROJECT REFERENCE NO.	SHEET NO.
W5702S	EC3

NC GRID
NAD 83/NSRS 2007

-Y-POT Sta. 17+00.00

S 6° 43' 47.9" E

630

625

-L-POT Sta. 632+68.18

2
CORRAL GROUP OF KINSTON
PO BOX 1908
ROCKY MOUNT, NC 27804
DB 1076 PG 292
1.91 AC

MURPHY OIL USA INC
PO BOX 7300
EL DORADO, AR 71730
DB 1351 PG 171
0.85 AC

3
R C G 2 LCC
PO BOX 7865
ROCKY MOUNT, NC 27804
DB 1113 PG 435
0.96 AC

SPRUCE PINE FARM RD
CONCRD ROAD

-L- 628+80.64 EXIST
BEG 2'-6" C&G

49.5' RAD
TO EOP

-Y- 19+13.84 EXIST
END 2'-6" C&G

-CP-55

-BL-4

-Y2-PC Sta. 10+00.00

-Y-POT Sta. 20+00.00

-Y2-PT Sta. 10+94.66

-Y2-C1
PI Sta 10+47.66
Δ = 16° 31' 06.7" (RT)
D = 17° 27' 00.6"
L = 94.66'
T = 47.66'
R = 328.34'

-Y2-PC Sta. 11+87.63

-Y2-PT Sta. 12+70.56

-Y2-C2
PI Sta 12+29.59
Δ = 21° 35' 49.1" (LT)
D = 26° 02' 36.7"
L = 82.93'
T = 41.96'
R = 220.00'

S 9° 58' 59" W

S 11° 36' 50.8" E

N 75° 37' 40.8" E

MATCHLINE -L- 925+00.00 SEE EC2

POOLE WALTER REALTY INC
4206 W VERNON AVE
KINSTON, NC 28504
DB 1007 PG 706
1.85 AC

MCDONALDS USA LLC
2500 WOOTEN AVE
WILSON, NC 27893
DB 1204 PG 539
0.92 AC

US TO WB LN 24 BST

US TO EB LN 24 BST

NCDOT TRAFFIC

EXISTING R/W LINE

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

REVISIONS

8/17/99

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PROJ. REFERENCE NO.	SHEET NO.
W5702S	X-1A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS–SECTION SUMMARY

IN CUBIC YARDS

LOCATION (–L–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT	SHOULDER BORROW
615+00.00	0	0	0	0
615+33.27	4	0	37	0
615+50.00	4	0	30	0
615+63.70	3	0	24	0
616+00.00	14	0	144	0
616+11.86	7	0	74	2
616+36.77	15	0	153	4
616+50.00	9	0	71	4
617+00.00	54	0	226	19
617+50.00	85	0	281	18
617+68.66	41	0	107	7
618+00.00	64	0	88	11
618+50.00	73	0	39	18
619+00.00	63	0	14	18
619+50.00	62	0	3	30
620+00.00	42	0	6	0
620+50.00	24	0	10	0
620+88.60	29	0	40	0

LOCATION (–L–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT	SHOULDER BORROW
621+00.00	11	0	23	4
621+03.50	3	0	8	1
621+04.54	1	0	2	0
621+50.00	48	0	106	17
621+60.10	14	0	22	4
621+87.79	35	0	56	11
622+00.00	13	0	25	5
622+50.00	55	0	96	18
623+00.00	48	0	82	24
623+26.56	29	0	36	9
623+50.00	28	0	23	4
623+82.46	26	0	32	5
624+00.00	9	0	19	0
624+22.66	12	0	13	0
624+50.00	16	0	6	0
625+00.00	18	0	9	0
625+50.00	10	0	7	0
626+00.00	9	0	4	0

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

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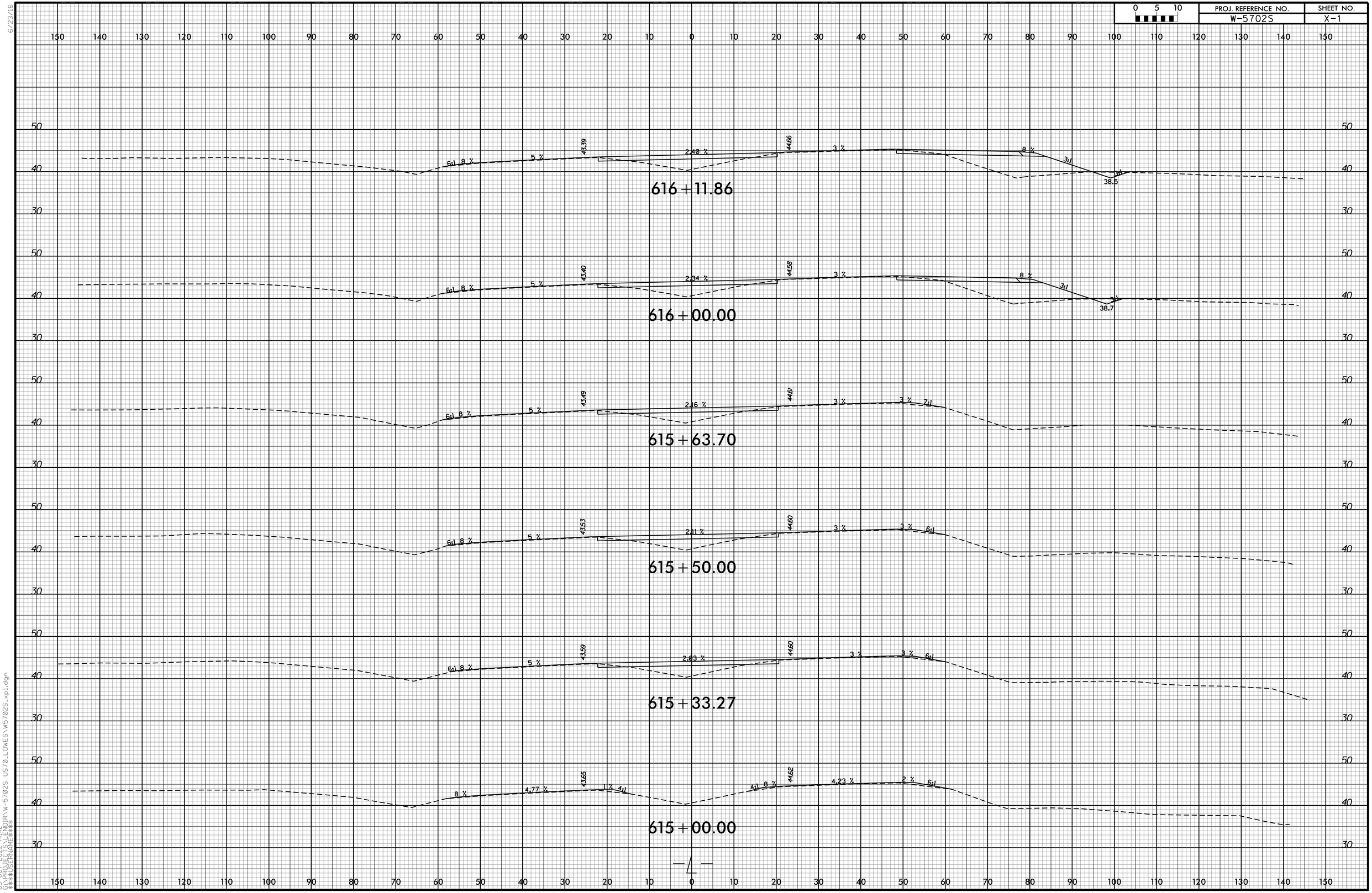
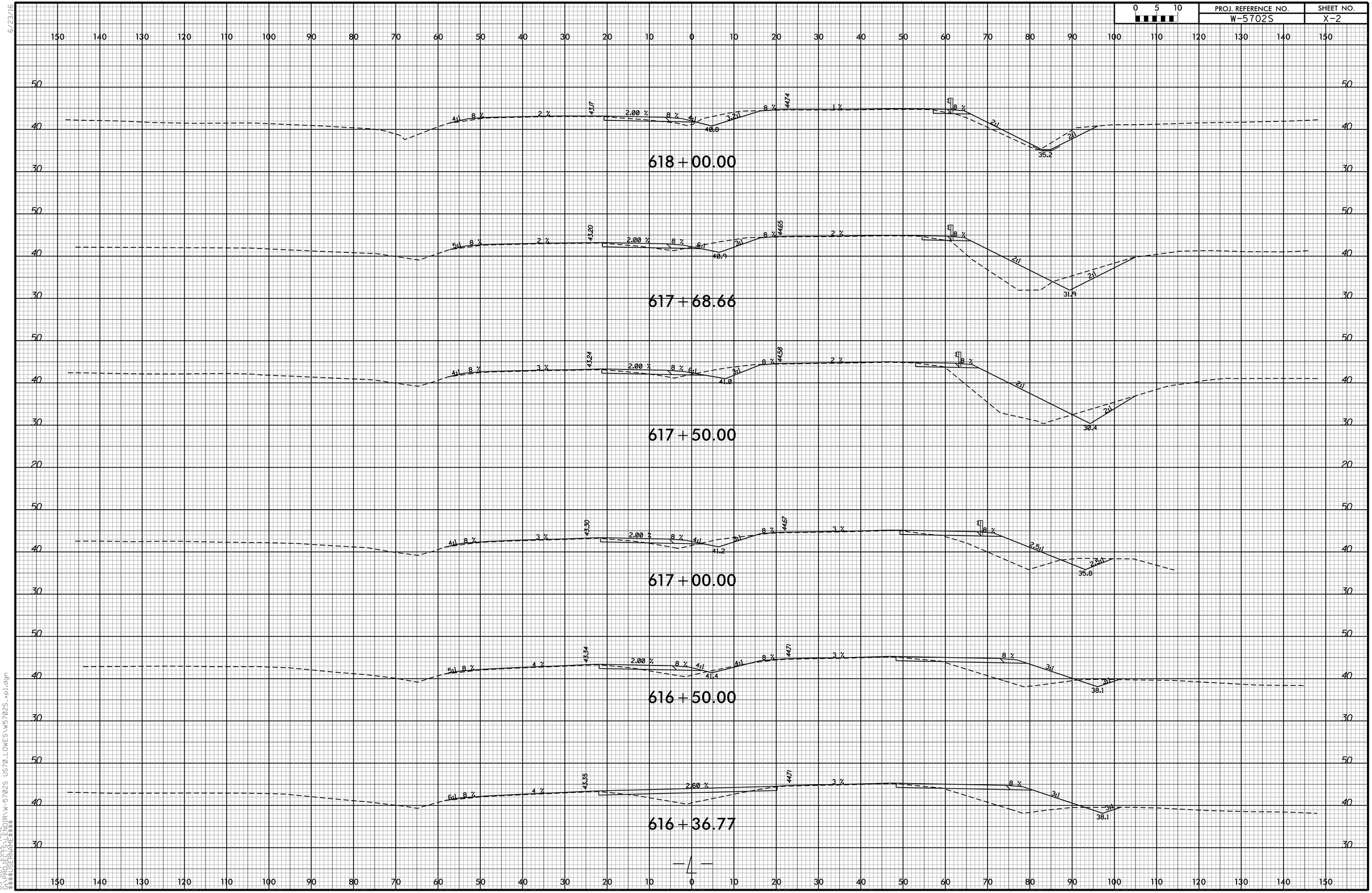
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702S	X-1



6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702S	X-2



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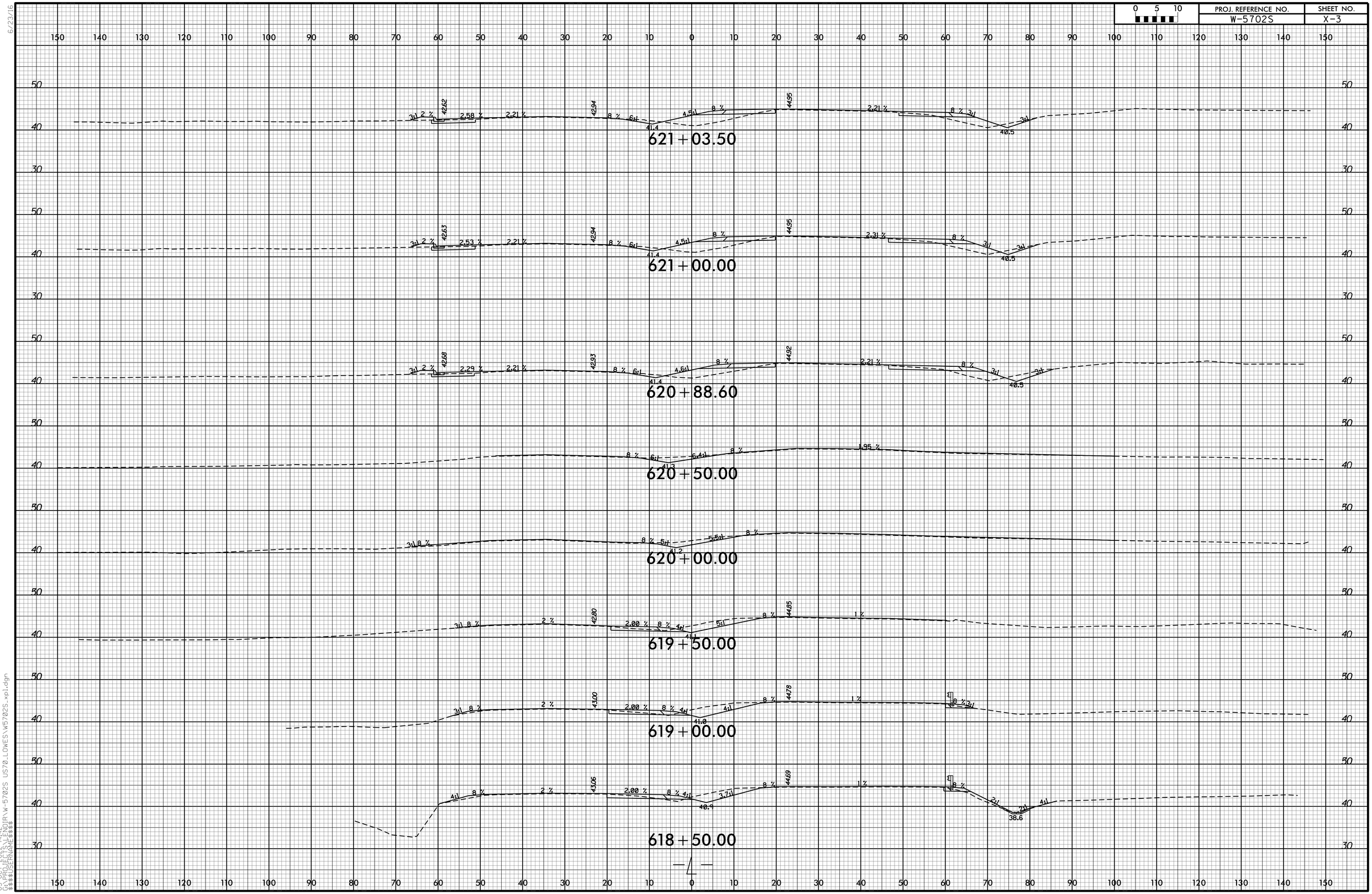

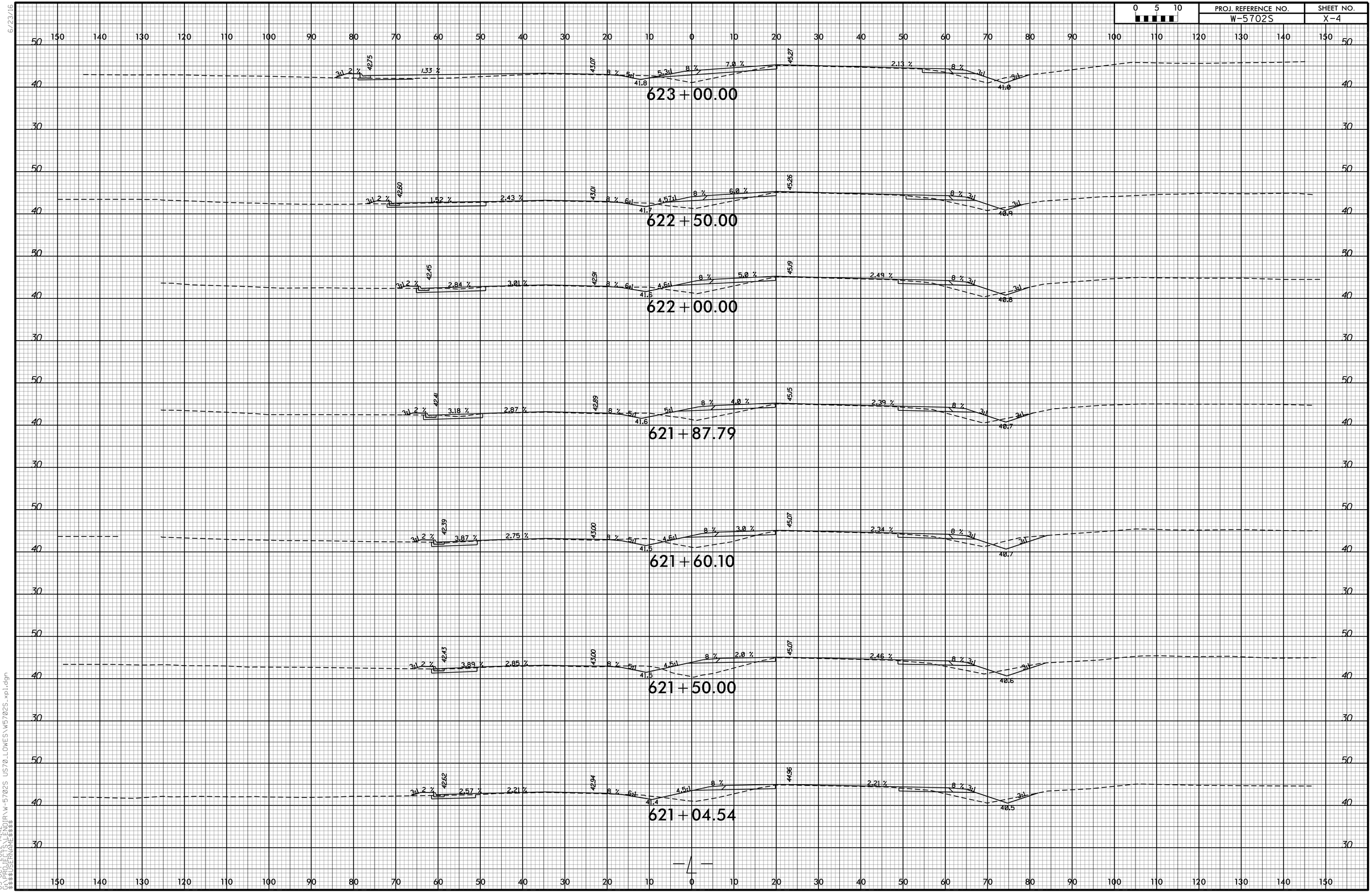

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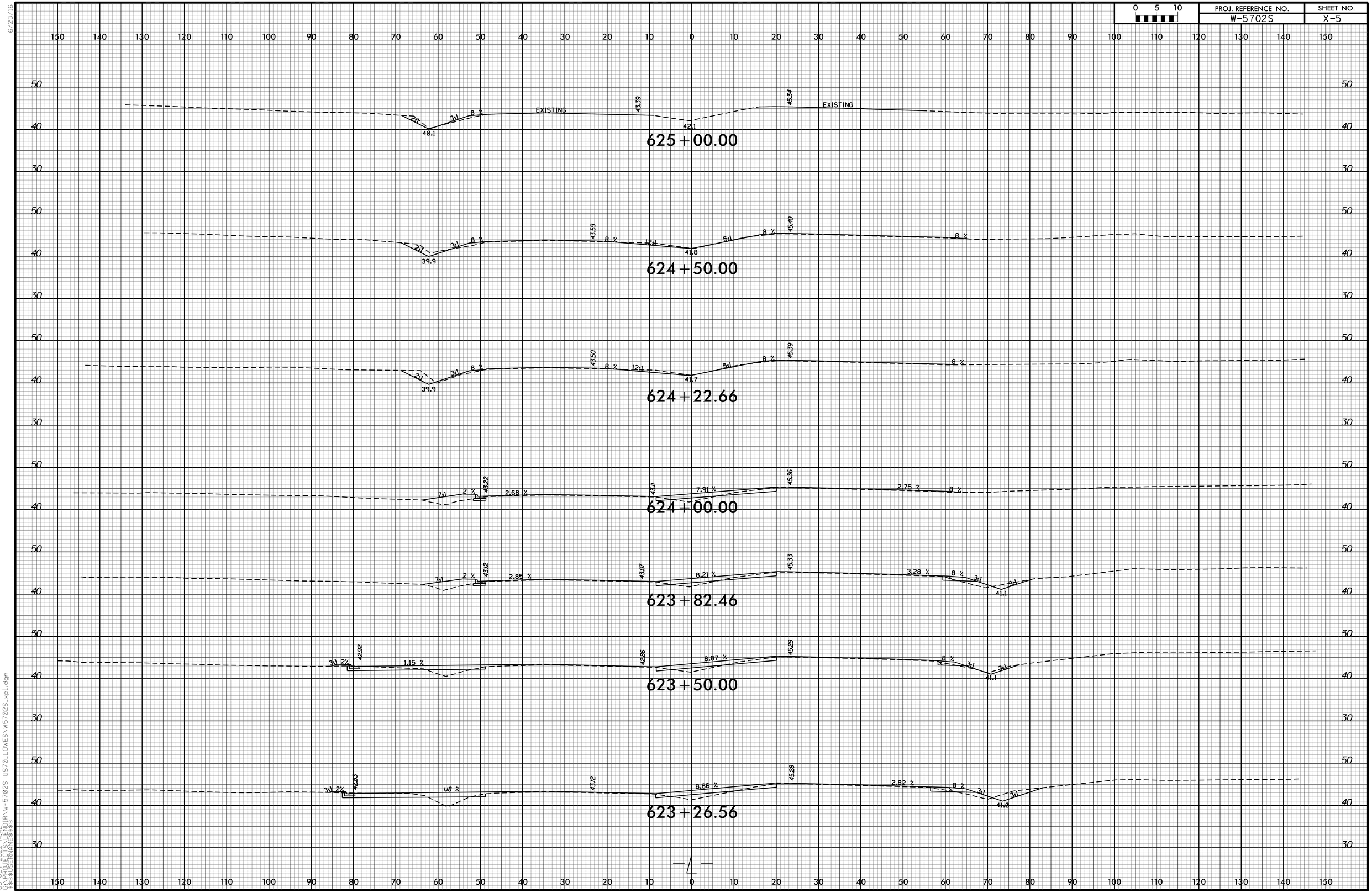

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
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626+00.00

625+50.00