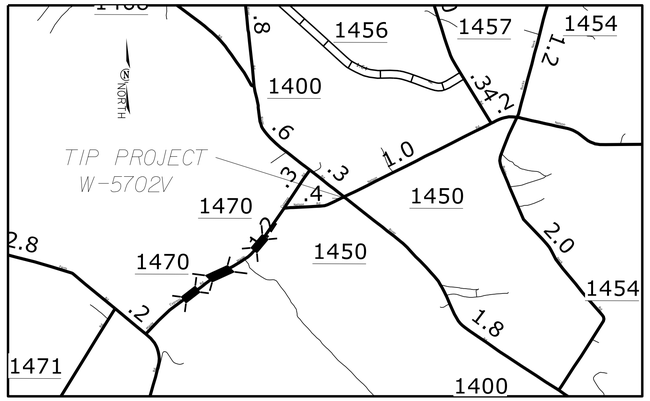
09/08/99

TIP PROJECT: W-5702V

CONTRACT: DB00427



VICINITY MAP
See Sheet 1A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

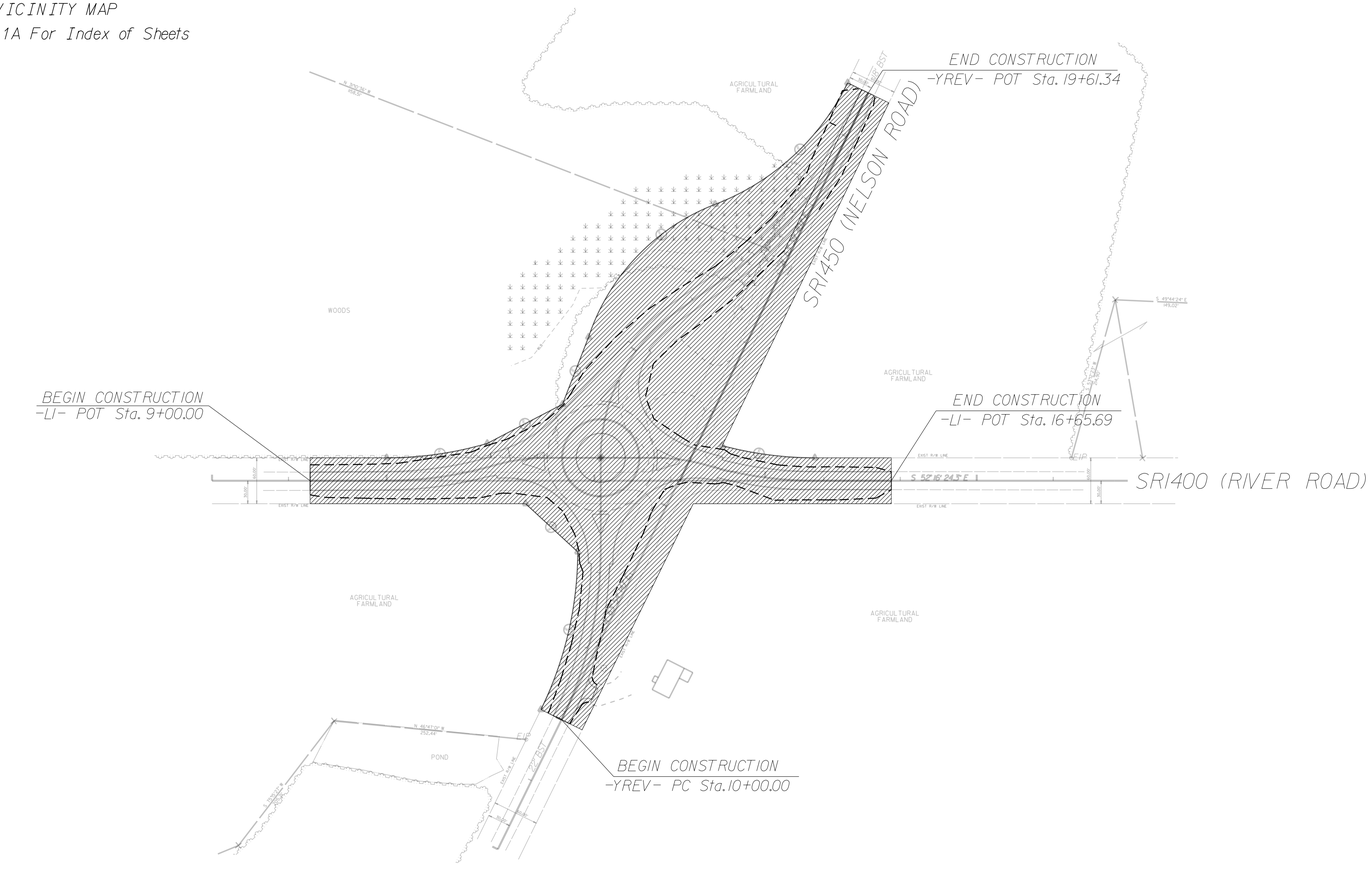
CRAVEN COUNTY

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

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44848.1.22	1400014	PE
44848.2.22	1400014	ROW/UTILITY
44848.3.22	1400014	CONST

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD) AT SR 1450 (NELSON ROAD) NEAR VANCEBORO

TYPE OF WORK: CONSTRUCT RAB ON NEW LOCATION GRADING,PAVING AND DRAINAGE



NC GRID
NAD 83/NSRS 2007

WORK AREA

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

GRAPHIC SCALES

50 25 0 50 100
PLANS

10 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 1400 = 2017
ADT 2100 = 2032
K = %
D = %
T = % *
V = 45 MPH
* TTST = 3% DUAL 3%
FUNC CLASS = LOCAL
SUB REGIONAL TIER

PROJECT LENGTH

TIP PROJECT W-5702V LENGTH = 0.126 MI

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 2020

LETTING DATE:
APRIL 2023

HEATHER C. LANE, P.E.
PROJECT ENGINEER

LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DocuSigned by: Heather C. Lane 03/20/2023 P.E.
SIGNATURE:

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DocuSigned by: Heather C. Lane 03/20/2023 P.E.
SIGNATURE:

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

19-MAR-2023 19:15
G:\PROJECTS\CRAVEN\W-5702V\W5702V_PSH.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	1A

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
RW-01 - RW-04	SURVEY CONTROL SHEETS
2A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B	ROADWAY DETAILS
3B	ROADWAY SUMMARIES
3P	PARCEL INDEX SHEET
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-7	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
P1	PERMIT DRAWING
EC-1 THRU EC-3	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UC-1 THRU UC-4	UTILITIES CONSTRUCTION PLANS
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-5	CROSS-SECTIONS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

GRADE LINE:
GRADING AND SURFACING:

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

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.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SUBSURFACE PLANS:

SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:
ELECTRIC: DUKE ENGERY
COMMUNICATIONS: CENTURYLINK
WATER: CRAVEN COUNTY WATER AND SEWER

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

RIGHT-OF-WAY MARKERS:

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

EFF. 01-16-2018
REV.

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, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 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

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	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
- 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*)
- U/G Water Line LOS C (S.U.E*)
- U/G Water Line LOS D (S.U.E*)
- 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:

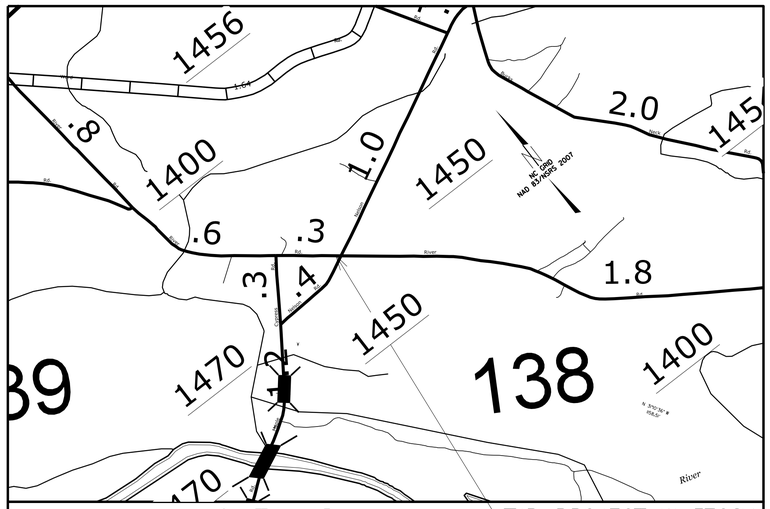
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

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.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702V	RW01	6

TIP PROJECT: W-5702V



VICINITY MAP TIP PROJECT W-5702V

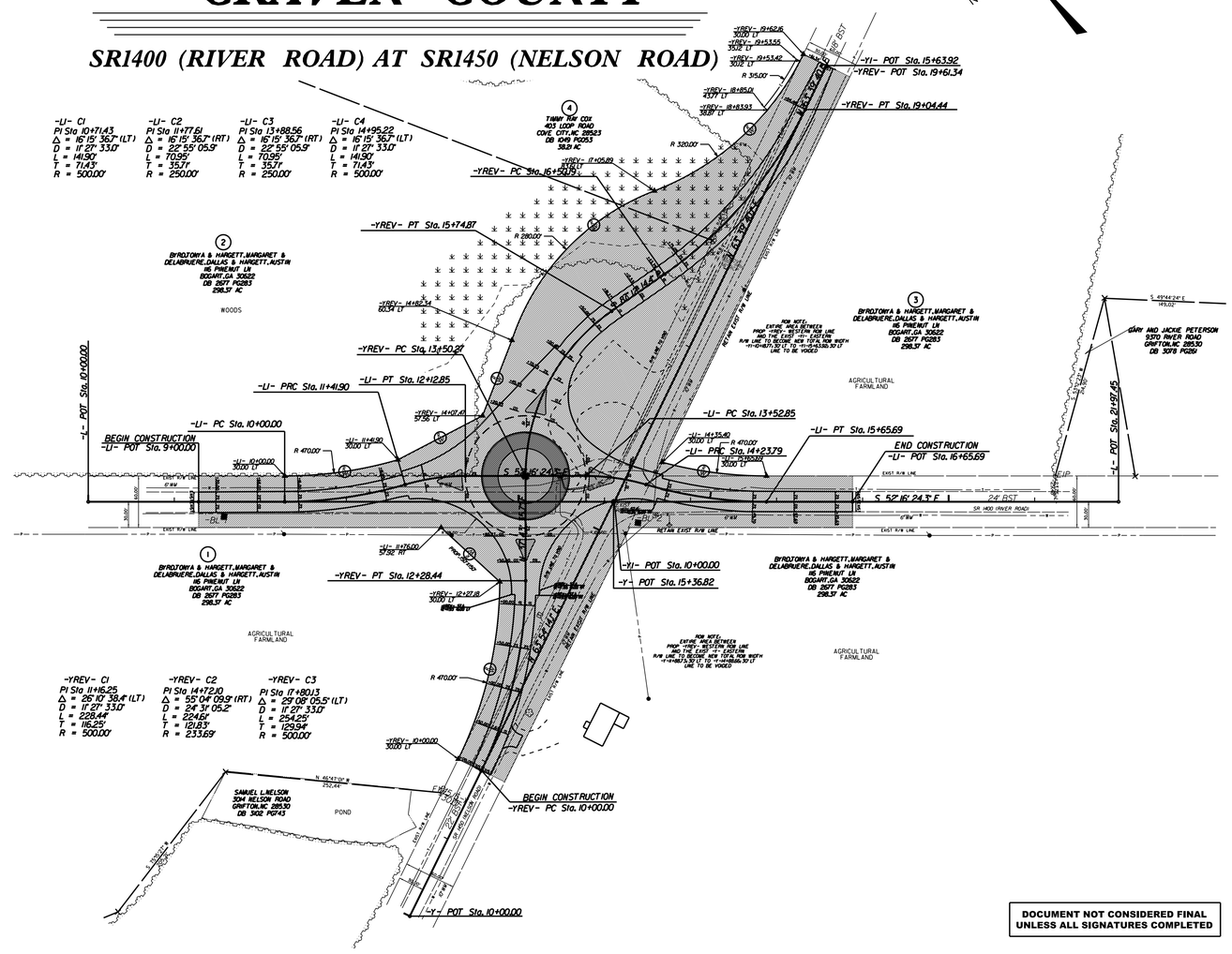
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

CRAVEN COUNTY

SR1400 (RIVER ROAD) AT SR1450 (NELSON ROAD)

NC GRID
NAD 83/NSRS 2007



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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-2"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 575,487.9750(ft) EASTING: 2,510,465.0890(ft)
ELEVATION: 18.596(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.999878137
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"-BL-2" TO -L1- STATION 9+00.00 IS
N 49^32'01" W 511.28(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:
APRIL 2021

LETTING DATE:
APRIL 2023

PROFESSIONAL LAND SURVEYOR

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

DocuSigned by:
SIGNATURE: 5B1B2E20902472... Date: 03/20/2023

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

09/08/99

19-MAR-2023 19:15
G:\PROJECTS\CRAVEN\W-5702V\W5702V_PSH_rw01.dgn
$$$$USERNAME$$$$

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

SURVEY CONTROL SHEET W-5702V

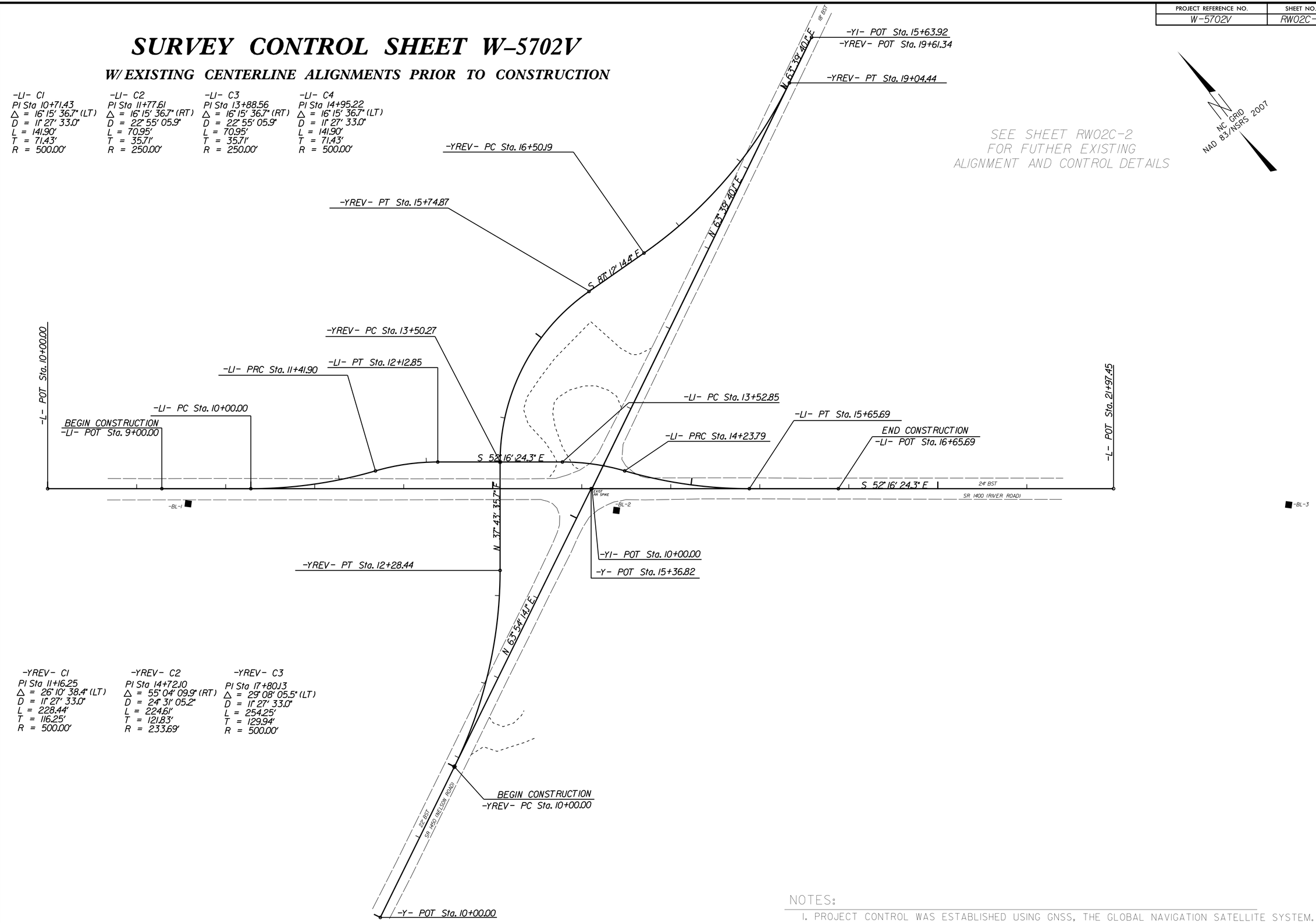
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

-L1- C1
PI Sta 10+71.43
△ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'

-L1- C2
PI Sta 11+77.61
△ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

-L1- C3
PI Sta 13+88.56
△ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

-L1- C4
PI Sta 14+95.22
△ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'



-YREV- C1
PI Sta 11+16.25
△ = 26° 10' 38.4" (LT)
D = 11° 27' 33.0"
L = 228.44'
T = 116.25'
R = 500.00'

-YREV- C2
PI Sta 14+72.10
△ = 55° 04' 09.9" (RT)
D = 24° 31' 05.2"
L = 224.61'
T = 121.83'
R = 233.69'

-YREV- C3
PI Sta 17+80.13
△ = 29° 08' 05.5" (LT)
D = 11° 27' 33.0"
L = 254.25'
T = 129.94'
R = 500.00'

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 13:16
S:\TPD\TIP\STPDEN\W-5702V\W5702V_PSH_rw02c-1.dgn
$$$$USERNAME$$$$

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

SURVEY CONTROL SHEET W-5702V

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE

BL

POINT	DESC.	NORTH	EAST	ELEVATION	BL STATION	OFFSET
1	BL-1	575788.2930	2510089.1640	17.45	5+00.00	0.00
2	BL-2	575487.9750	2510465.0890	18.60	9+81.16	0.00
3	BL-3	575030.8680	2511066.2580	18.05	17+36.37	0.00

EXISITNG ALIGNMENT DESCRIPTION

L

POINT	N	E	BEARING	DIST
POT	575898.289	2509974.652		
LINE			S 52°16'24.3" E	1197.45
POT	575165.578	2510921.761		

Y

POINT	N	E	BEARING	DIST
POT	575288.543	2509975.460		
LINE			N 63°54'14.1" E	536.82
POT	575524.679	2510457.557		

Y1

POINT	N	E	BEARING	DIST
POT	575524.099	2510458.333		
LINE			N 63°39'40.1" E	563.92
POT	575774.300	2510963.712		

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 19:16
C:\WORK\CAD\DRAWEN\W-5702V\W5702V_PSH_rw02c-2.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	RW02D-1

PROPOSED ALIGNMENT CONTROL SHEET W-5702V

L1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575819.794	2510076.116							
LINE			S 52°16′24.3" E	100.00					
PC	575758.605	2510155.210							
CURVE			S 60°24′12.6" E	141.42	16°15′36.7"(LT)	11°27′33.0"	141.90	71.43	500.00
PCC	575688.758	2510278.179							
CURVE			S 60°24′12.6" E	70.71	16°15′36.7"(RT)	22°55′05.9"	70.95	35.71	250.00
PT	575653.835	2510339.664							
LINE			S 52°16′24.3" E	140.00					
PC	575568.170	2510450.395							
CURVE			S 44°08′35.9" E	70.71	16°15′36.7"(RT)	22°55′05.9"	70.95	35.71	250.00
PCC	575517.428	2510499.642							
CURVE			S 44°08′35.9" E	141.42	16°15′36.7"(LT)	11°27′33.0"	141.90	71.43	500.00
PT	575415.944	2510598.136							
LINE			S 52°16′24.3" E	100.00					
POT	575354.754	2510677.230							

YREV

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	575371.562	2510144.953							
CURVE			N 50°48′54.9" E	226.46	26°10′38.4"(LT)	11°27′33.0"	228.44	116.25	500.00
PT	575514.644	2510320.484							
LINE			N 37°43′35.7" E	127.04					
PC	575615.124	2510398.218							
CURVE			N 65°15′40.7" E	206.82	55°04′09.9"(RT)	25°36′51.1"	215.00	116.62	223.69
PT	575701.672	2510586.053							
LINE			S 87°12′14.4" E	80.53					
PC	575697.744	2510666.491							
CURVE			N 78°13′42.9" E	251.52	29°08′05.5"(LT)	11°27′33.0"	254.25	129.94	500.00
PT	575749.056	2510912.721							
LINE			N 63°39′40.1" E	56.90					
POT	575774.300	2510963.712							

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 19:16
C:\WORKSPACE\DRAWEN\W-5702V\W5702V_PSH_rw02d-1.dgn
$$$$USERNAME$$$$

RIGHT OF WAY CONTROL SHEET W-5702V

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

PROJECT PROFESSIONAL LAND SURVEYOR

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

DocuSigned by: 0A8B13E20902472...

03/20/2023

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).

DocuSigned by: 0A8B13E20902472...

Witness my original signature, registration number and seal this 4th day of March, 2022.

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

Professional Land Surveyor PLS # Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L1	10+00.00	-30.00	575782.3328	2510173.5663
L1	11+41.90	-30.00	575716.6772	2510289.1576
L1	14+35.40	-30.00	575526.3158	2510530.4262
L1	15+65.69	-30.00	575439.6720	2510616.4925
L1	11+76.00	57.92	575623.6397	2510280.6381

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
YREV	10+00.00	-30.00	575398.5041	2510131.7565
YREV	12+27.18	-30.00	575532.0631	2510296.0282
YREV	14+07.47	-57.56	575696.9629	2510398.3150
YREV	14+82.34	-60.34	575745.5247	2510479.0223
YREV	17+05.89	-83.61	575781.5273	2510716.2496
YREV	19+62.16	-30.00	575801.1853	2510950.4013

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 19:16
C:\PROJECTS\W-5702V\DEN\W-5702V\W5702V_PSH_rw03e-1.dgn
$$$$USERNAME$$$$

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

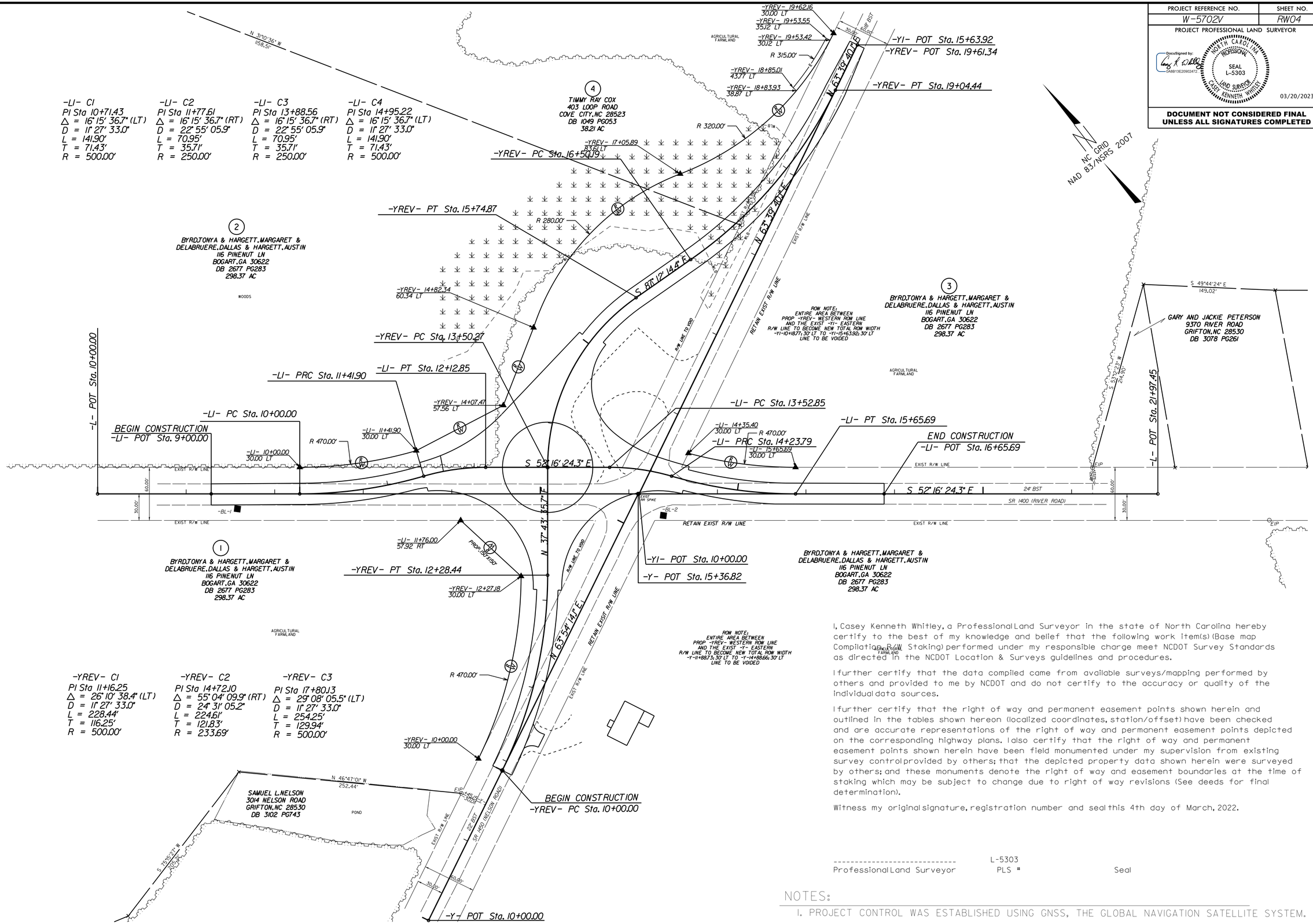
PROJECT PROFESSIONAL LAND SURVEYOR

DocuSigned by: Casey K. Whitley
DA8B13E209024F7...

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

03/20/2023

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 4th day of March, 2022.

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

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 13:16
C:\SELECTDOT\CHAVEN\W-5702V\W5702V_PSH_rw04.dgn
$$$$USERNAME$$$$

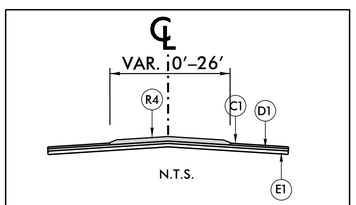
PROJECT REFERENCE NO.	SHEET NO.
W-5702V	2A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE — DocuSigned by: Heather C. Lane — 03/20/2023

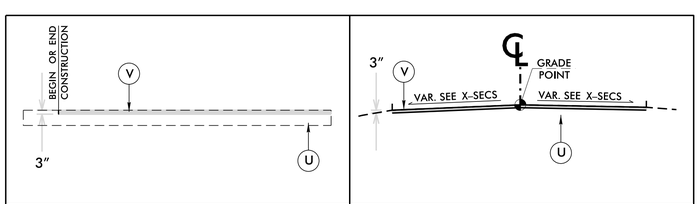
PAVEMENT SCHEDULE

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE. TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J1	PROP. 8" AGGREGATE BASE COURSE.
R1	PROP. 1'-6" CONCRETE CURB AND GUTTER.
R2	PROP. 12" CONCRETE TRUCK APRON.
R3	PROP. 4" CONCRETE APRON.
R4	PROP. 5" CONCRETE MONOLITHIC ISLAND (KEYED IN).
T	EARTH MATERIAL.
U	EXISTING PAVEMENT
V	MILLING ASPHALT PAVEMENT 0" - 3" DEPTH

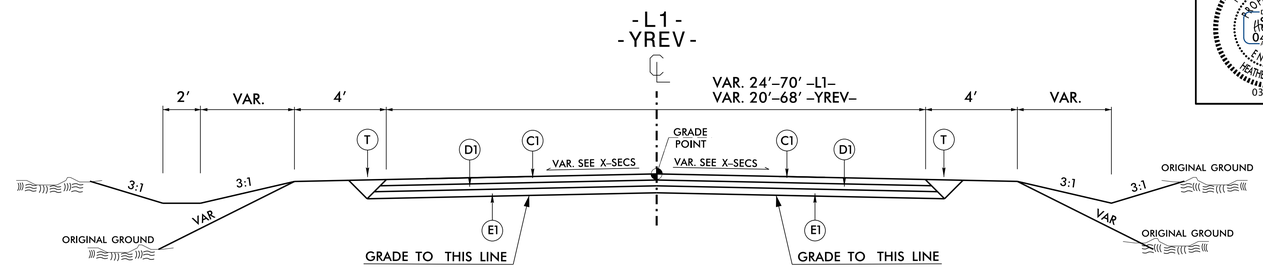
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



MONOLITHIC ISLAND DETAIL
USE WITH TYPICAL SECTION #1

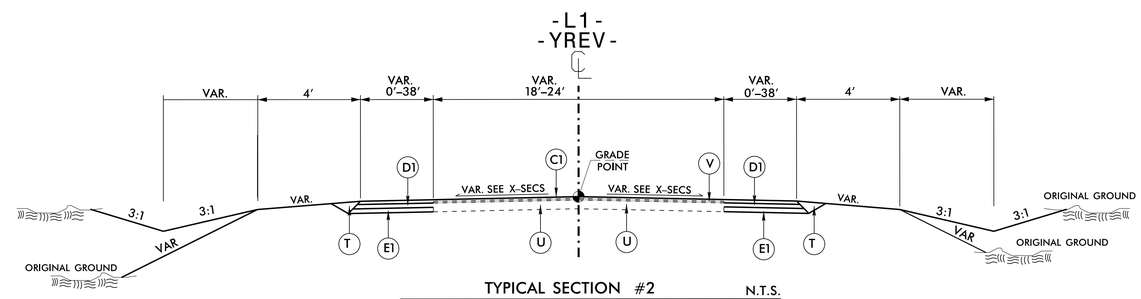


MILLING DETAIL
USE WITH TYPICAL SECTION #2



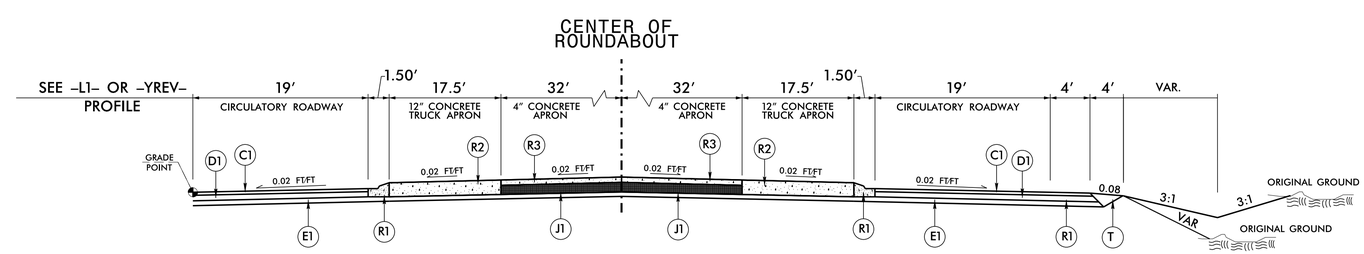
TYPICAL SECTION #1 N.T.S.

-L1- 9+00.00 - 12+12.85
-YREV- 11+50.00 - 12+80.27
-YREV- 14+20.53 - 17+62.12



TYPICAL SECTION #2 N.T.S.

-L1- 13+52.85 - 16+65.69
-YREV- 10+00.00 - 11+50.00
-YREV- 18+64.59 - 19+61.34



TYPICAL SECTION #3 N.T.S.
ROUND-A-BOUT DETAIL

-L1- 12+82.85
-YREV- 13+50.27

19-MAR-2023 19:16
G:\TPB\CONSTRAWEN\W-5702V\W5702V_PSH2A.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

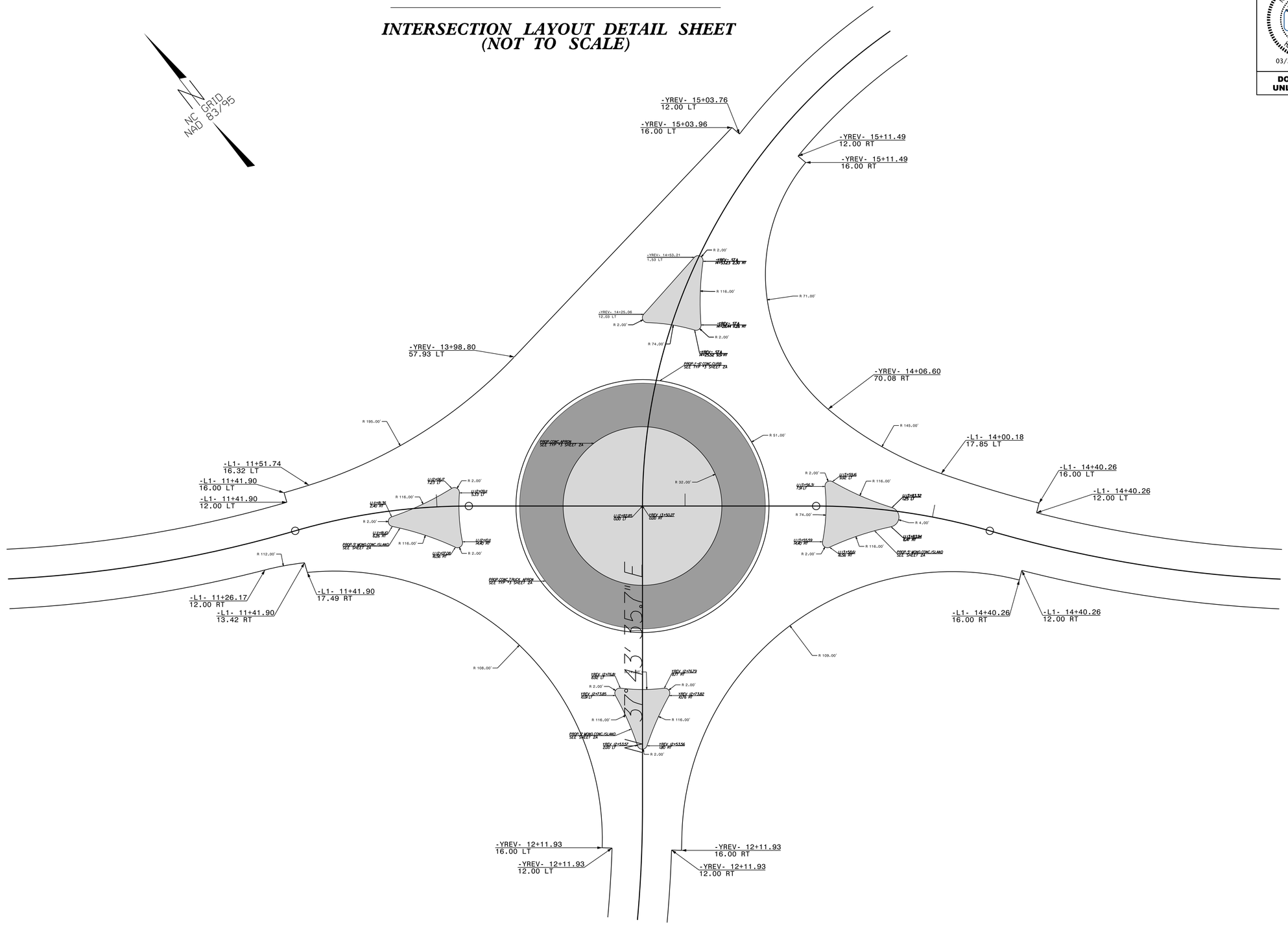
ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE — Digitally signed by: A1154E95940746B — 03/20/2023

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE — Digitally signed by: A1154E95940746B — 03/20/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INTERSECTION LAYOUT DETAIL SHEET
(NOT TO SCALE)



REVISIONS

8/17/99

19-MAR-2023 13:16
S:\STRUCTURES\DRAINAGE\W-5702V\W5702V_PSH2B.dgn
$$$$USERNAME$$$$

COMPUTED BY: RG DATE:
CHECKED BY: DATE:

PROJECT REFERENCE NO.	SHEET NO.
W5702V	3B

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 / SIZE / THICKNESS OR GAUGE | LOCATION (LT,RT, OR CL) | 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" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE 12" | 15" | 18" | 24" | 36" | 42" | 48" | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE (CLASS IV) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DOT SUPPLIED 95" X 67" CAAP WHEADWALLS | *** 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) R.C.P. | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | QUANTITIES FOR DRAINAGE STRUCTURES LIN. FT. A 5.0' THRU 10.0' | QUANTITIES FOR DRAINAGE STRUCTURES LIN. FT. B 10.0' AND ABOVE | * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') | T.B.J.B. STD. 840.34 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE F | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE 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 |
|---|---|---

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL NUMBER	SHEET NUMBER	PROPERTY OWNER NAMES
1	4	BYRD, TONYA & HARGETT, MARGARET & DELABRUERE, DALLAS & HARGETT AUSTIN
2	4	BYRD, TONYA & HARGETT, MARGARET & DELABRUERE, DALLAS & HARGETT AUSTIN
3	4	BYRD, TONYA & HARGETT, MARGARET & DELABRUERE, DALLAS & HARGETT AUSTIN
4	4	TIMMY RAY COX

5/28/99
19-MAR-2023 19:16
C:\WMOS\CHAVEN\W-5702V\W5702V_PSH3P.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
03/20/2023	03/20/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-LI- CI
PI Sta 10+71.43
△ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'

-LI- C2
PI Sta 11+77.61
△ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

-LI- C3
PI Sta 13+88.56
△ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

-LI- C4
PI Sta 14+95.22
△ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'

-YREV- C1
PI Sta 11+16.25
△ = 26° 10' 38.4" (LT)
D = 11° 27' 33.0"
L = 228.44'
T = 116.25'
R = 500.00'

-YREV- C2
PI Sta 14+72.10
△ = 55° 04' 09.9" (RT)
D = 24° 31' 05.2"
L = 224.61'
T = 121.83'
R = 233.69'

-YREV- C3
PI Sta 17+80.13
△ = 29° 08' 05.5" (LT)
D = 11° 27' 33.0"
L = 254.25'
T = 129.94'
R = 500.00'

4
TIMMY RAY COX
403 LOOP ROAD
COVE CITY, NC 28523
DB 1049 PG053
38.21 AC

2
BYRD, TONYA & HARGETT, MARGARET &
DELABRUERE, DALLAS & HARGETT, AUSTIN
116 PINENUT LN
BOGART, GA 30622
DB 2677 PG283
298.37 AC

3
BYRD, TONYA & HARGETT, MARGARET &
DELABRUERE, DALLAS & HARGETT, AUSTIN
116 PINENUT LN
BOGART, GA 30622
DB 2677 PG283
298.37 AC

1
BYRD, TONYA & HARGETT, MARGARET &
DELABRUERE, DALLAS & HARGETT, AUSTIN
116 PINENUT LN
BOGART, GA 30622
DB 2677 PG283
298.37 AC

SAMUEL L. NELSON
3014 NELSON ROAD
GRIFTON, NC 28530
DB 3102 PG743

GARY AND JACKIE PETERSON
9370 RIVER ROAD
GRIFTON, NC 28530
DB 3078 PG261

ROW NOTE:
ENTIRE AREA BETWEEN
PROP -YREV- WESTERN ROW LINE
AND THE EXIST -Y1- EASTERN
R/W LINE TO BECOME NEW TOTAL ROW WIDTH
-Y1-10+18.73; 30' LT TO -Y1-15+63.92; 30' LT
LINE TO BE VOIDED

ROW NOTE:
ENTIRE AREA BETWEEN
PROP -YREV- WESTERN ROW LINE
AND THE EXIST -Y- EASTERN
R/W LINE TO BECOME NEW TOTAL ROW WIDTH
-Y-11+88.73; 30' LT TO -Y-14+88.66; 30' LT
LINE TO BE VOIDED

NC GRID
NAD 83/NSRS 2007

-L- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-LI- POT Sta. 9+00.00
-LI- PC Sta. 10+00.00
-LI- PRC Sta. 11+41.90
-LI- PT Sta. 12+12.85
-YREV- PC Sta. 13+50.27
-YREV- PT Sta. 15+74.87
-YREV- PC Sta. 16+50.19
-YREV- PT Sta. 12+28.44
-LI- PC Sta. 13+52.85
-LI- PT Sta. 15+65.69
-LI- PRC Sta. 14+23.79
END CONSTRUCTION
-LI- POT Sta. 16+65.69
-Y1- POT Sta. 15+63.92
-YREV- POT Sta. 19+61.34
-YREV- PT Sta. 19+04.44
-Y1- POT Sta. 10+00.00
-Y- POT Sta. 15+36.82
BEGIN CONSTRUCTION
-YREV- PC Sta. 10+00.00
-Y- POT Sta. 10+00.00
-L- POT Sta. 21+97.45
PROPOSED WATER MAIN -LI- 11+76.00
SEE UC PLANS
S 52°16' 24.3" E
N 63° 39' 40" E
N 65° 54' 14.1" E
SR 1400 (RIVER ROAD)
SR 1456 (NELSON ROAD)
24' BST
22' BST
GRADE TO DRAIN
AGRICULTURAL FARMLAND
RETAIN EXIST R/W LINE
EXIST R/W LINE
ABANDON 8" UTILITY PIPE
R 470.00'
R 320.00'
R 280.00'
N 31°10'36" W
1158.31'
N 46°47'01" W
252.44'
S 15°09'27" W
205.41'
S 49°44'24" E
149.02'
S 53°23'23" W
24.90'
POND

DETAIL 1
SPECIAL CUT BASE DITCH
(Not to Scale)

Natural Ground — 3:1 — D — B — 3:1 or Flatter — Front Ditch Slope
Min. D = 1'
B = 2'

FROM STA. TO STA.
-YREV- LT 14+50.00 - 16+00.00
-YREV- LT 19+00.00 - 19+84.55
-YREV- RT 14+50.00 - 17+00.00

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)

Natural Ground — 4:1 — D — B — 4:1 — Natural Ground
Min. D = 2'
B = 4'

FROM STA. TO STA.
-Y1- CL 12+95.95 - 13+19.31

DETAIL 3
CUT DITCH
(Not to Scale)

Natural Ground — 3:1 — D — 3:1 or Flatter — Front Ditch Slope
Min. D = 1'

FROM STA. TO STA.
-YREV- RT 14+20.27 - 14+50.00
-YREV- LT 10+50.00 - 12+80.27
-L1- LT 10+50.00 - 11+41.90
-L1- LT 13+52.85 - 13+84.85
-L1- LT 14+40.26 - 14+65.70

REVISIONS

8/17/99

20-MAR-2023 08:40
R:\Roadway\Proj\W-5702V\W5702V_psh4.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	5

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE
03/20/2023

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE
03/20/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-LI-

PI = 10+56.00
EL = 18.62'
VC = 200'

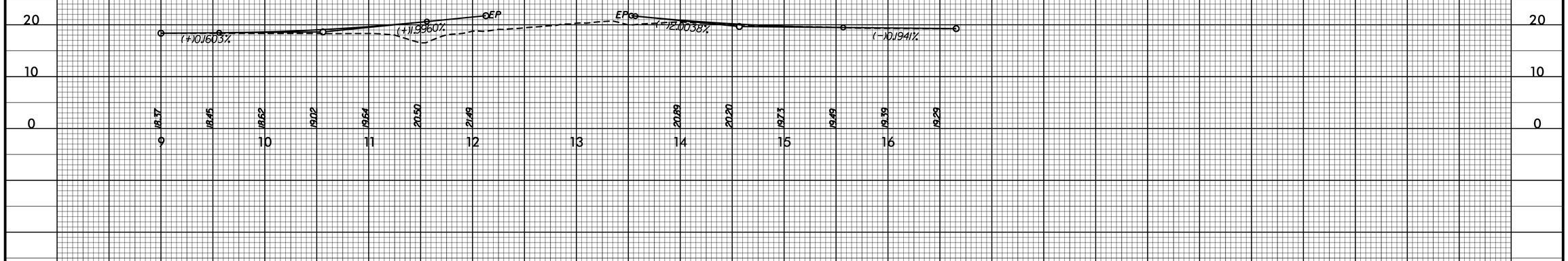
PI = 14+56.85
EL = 19.67'
VC = 200'

BEGIN GRADE -LI-
STA.9+00 ELEV.18.37

PI = 12+12.85
EL = 21.75'

PI = 13+52.85
EL = 21.75'

END GRADE -LI- STA.
16+65.69 ELEV.19.26



-YREV-

BEGIN GRADE -YREV- STATION
10+00 ELEVATION 21.26

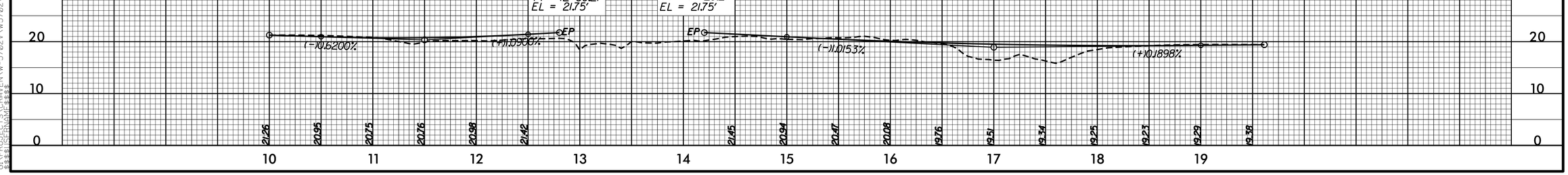
PI = 11+50.00
EL = 20.33'
VC = 200'

PI = 12+80.27
EL = 21.75'

PI = 14+20.27
EL = 21.75'

PI = 17+00.00
EL = 18.91'
VC = 400'

END GRADE -YREV- STATION
19+61.34 ELEVATION 19.45

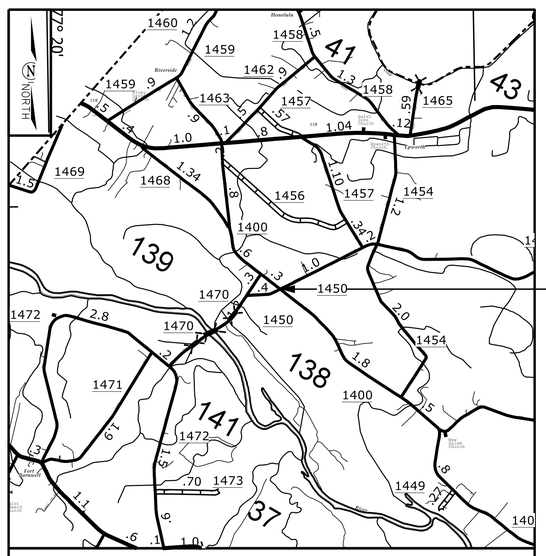


19-MAR-2023 19:16
C:\APPLICATIONS\RAVEN\W-5702V\W5702V_psh5.dgn
$$$$USERNAME$$$$

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CRAVEN COUNTY



VICINITY MAP

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD)
AT SR 1450 (NELSON ROAD)
NEAR VANCEBORO
TYPE OF WORK: CONSTRUCT RAB ON NEW LOCATION
GRADING,PAVING AND DRAINAGE

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	PROJECT PHASING
TMP-3	PHASE I DETOUR
TMP-4	PHASE I
TMP-5	PHASE II
TMP-6	PHASE III
TMP-7	PHASE IV

SHEET NO.
TMP-1

W-5702V

TIP PROJECT:

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

PLANS PREPARED BY:

NCDOT DIV2 DDC UNIT

1037 W.H. SMITH BLVD.
GREENVILLE, NC 27858

NCDOT CONTACTS:

HEATHER C. LANE P.E.
PROJECT ENGINEER

LANG JONES
PROJECT DESIGN ENGINEER

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: DocuSigned by: Heather C. Lane A154EE9594D7468...

DATE: 03/20/2023

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP1.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-1A

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- PAVEMENT REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM — SKINNY DRUM — TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

APPROVED: Heather C. Lane (DocuSigned by: A1154E959407468)

DATE: 03/20/2023

SEAL

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

ROADWAY STANDARD DRAWINGS & LEGEND

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP1A.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP -1B

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 STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
RIVER ROAD	N/A	N/A
NELSON ROAD	N/A	N/A

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 BARRIER

K) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

L) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

M) INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH OR HIGHER	30 FT

TRAFFIC CONTROL DEVICES

N) 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.

O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS

P) INSTALL TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
RIVER ROAD	THEROMPLASTIC	NONE
NELSON ROAD	THEROMPLASTIC	NONE

Q) 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.

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

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

MISCELLANEOUS

T) 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.

LOCAL NOTES

LOCAL NOTES:

1) **EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.**
2) **NOTIFY THE FIRE DEPT, E.M.S., AND CRAVEN COUNTY SCHOOL BOARD 30 DAYS PRIOR TO ROAD CLOSURE.**
3) **LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES WILL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.**

APPROVED: Heather C. Lane DATE: 03/20/2023

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)

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMPIB.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-2

PROJECT PHASING

PHASE I

STEP 1: - ERECT WORK ZONE ADVANCED WARNING SIGNS USING DETAIL DRAWINGS FOR WORK ZONE SIGNS USING ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 3 OF 3.

STEP 2: - PUT OFFSITE DETOUR IN PLACE (SEE SHEET TMP-3)

STEP 3: - INSTALL EROSION CONTROL PER PLANS. (SEE EC SHEETS)

STEP 4: - REMOVE EXISTING ASPHALT -L1- STATION 9+00.00 TO 13+52.79. (SEE SHEET TMP-4)

STEP 5: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, INSTALL WATER MAIN RELOCATION. (SEE UC SHEETS)

STEP 6: - COMPLETE CLEARING AND GRUBBING, UNDERCUT AND EARTHWORK AS SHOWN. (SEE SHEET TMP-4)

STEP 7: - INSTALL STRUCTURE #1. (SEE SHEET 4)

STEP 8: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, PLACE ALL B25.0C (AND I19.0C NEXT TO EXISTING TRAVELWAYS ONLY) TO AVOID DROPOFFS. (SEE SHEET TMP4)

PHASE II

STEP 1: - PLACE 1′-6″ CONCRETE CURB AND GUTTER (SEE SHEET TMP-5)

STEP 2: - PLACE THE REMAINING I19.0C (SEE SHEET TMP-5)

STEP 3: - POUR THE CONCRETE TRUCK APRON.(SEE SHEET TMP-5)

STEP 4: - PLACE AGGREGATE BASE COURSE INSIDE OF CONCRETE TRUCK APRON. (SEE SHEET TMP-5)

STEP 5: - POUR THE 4″ CONCRETE COVER. (SEE SHEET TMP-5)

STEP 6: - BRING EXISTING SHOULDERS UP TO GRADE WHERE POSSIBLE TO AVOID DROPOFFS.

PHASE III

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE FIRST LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-6)
-YREV- 12+19.11 - 17+21.40
-L1- 9+00.00 - 14+40.00

STEP 2: - PLACE THE PROPOSED 5″ MONOLITHIC CONCRETE ISLANDS. (SEE PSH-2B)

STEP 3: - TIE IN PAVEMENT AS NEEDED TO MAINTAIN TRAFFIC IN DETOUR. (SEE SHEET TMP-6)

STEP 4: - MILL THE PROPOSED TIE IN AS SHOWN. (SEE SHEET TMP-6)

STEP 5: - COMPLETE THE FIRST LAYER OF S9.5B SURFACE COURSE. (SEE SHEET TMP-6)

PHASE IV

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE THE FINAL LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-7)

STEP 2: - COMPLETE SIGNING. (SEE SIGNING PLANS)

STEP 3: - COMPLETE PAVEMENT MARKING. (SEE PAVEMENT MARKING PLANS)

STEP 4: - REMOVE DETOUR AND PUT TRAFFIC IN THE FINAL PATTERN.

STEP 5: - REMOVE EXISTING ASPHALT. (SEE SHEET TMP-7)

STEP 6: - COMPLETE STRUCTURE #2. (SEE SHEET TMP-7)

STEP 7: - COMPLETE EARTHWORK, GRADING AND EROSION CONTROL.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Heather C. Lane DATE: 03/20/2023

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASING

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP2.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-4

PHASE I

STEP 1: - ERECT WORK ZONE ADVANCED WARNING SIGNS USING DETAIL DRAWINGS FOR WORK ZONE SIGNS USING ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 3 OF 3.

STEP 2: - PUT OFFSITE DETOUR IN PLACE (SEE SHEET TMP-3)

STEP 3: - INSTALL EROSION CONTROL PER PLANS. (SEE EC SHEETS)

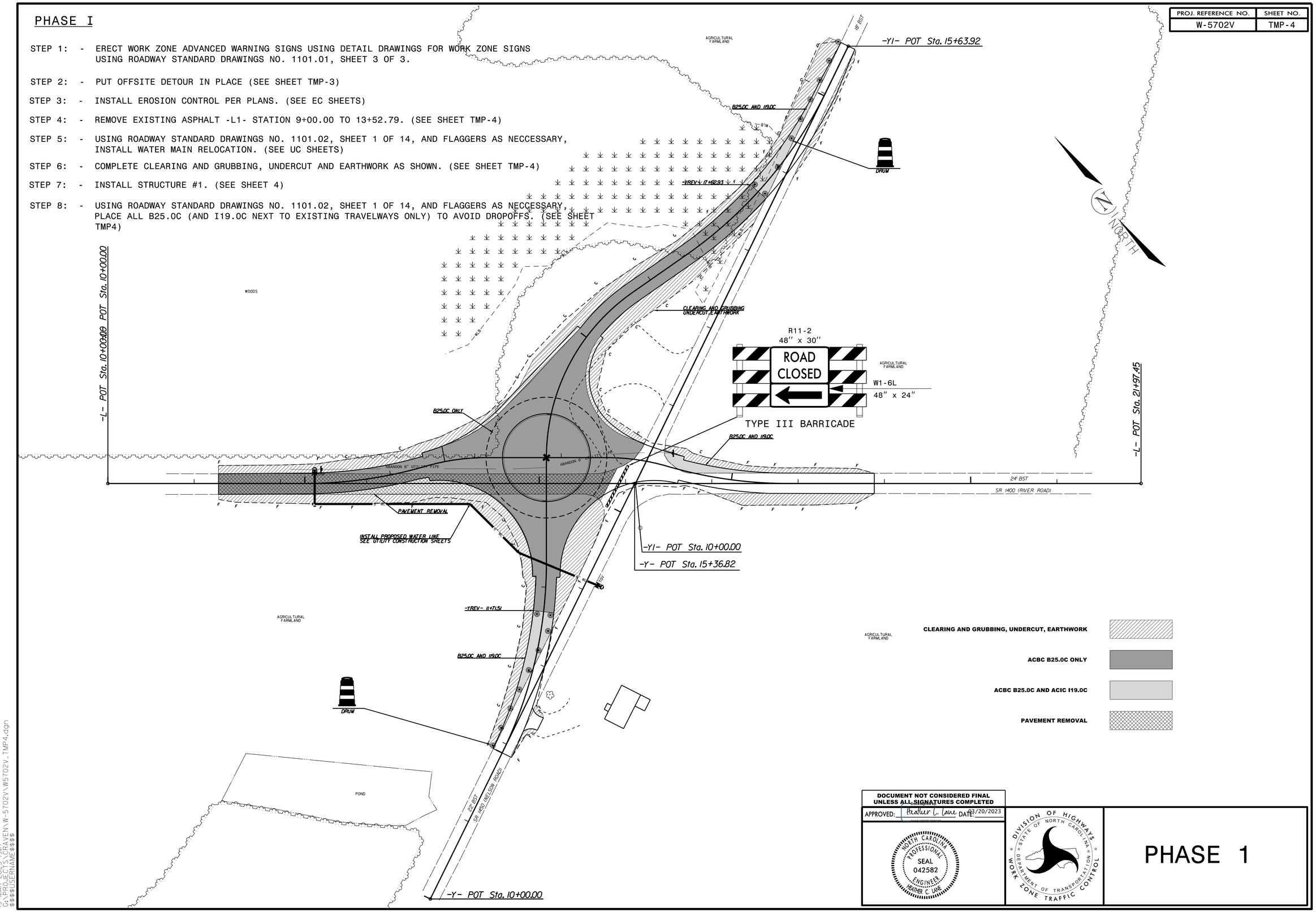
STEP 4: - REMOVE EXISTING ASPHALT -L1- STATION 9+00.00 TO 13+52.79. (SEE SHEET TMP-4)

STEP 5: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, INSTALL WATER MAIN RELOCATION. (SEE UC SHEETS)

STEP 6: - COMPLETE CLEARING AND GRUBBING, UNDERCUT AND EARTHWORK AS SHOWN. (SEE SHEET TMP-4)

STEP 7: - INSTALL STRUCTURE #1. (SEE SHEET 4)

STEP 8: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, PLACE ALL B25.0C (AND I19.0C NEXT TO EXISTING TRAVELWAYS ONLY) TO AVOID DROPOFFS. (SEE SHEET TMP4)



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Heather C. Lane DATE: 12/20/2023

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

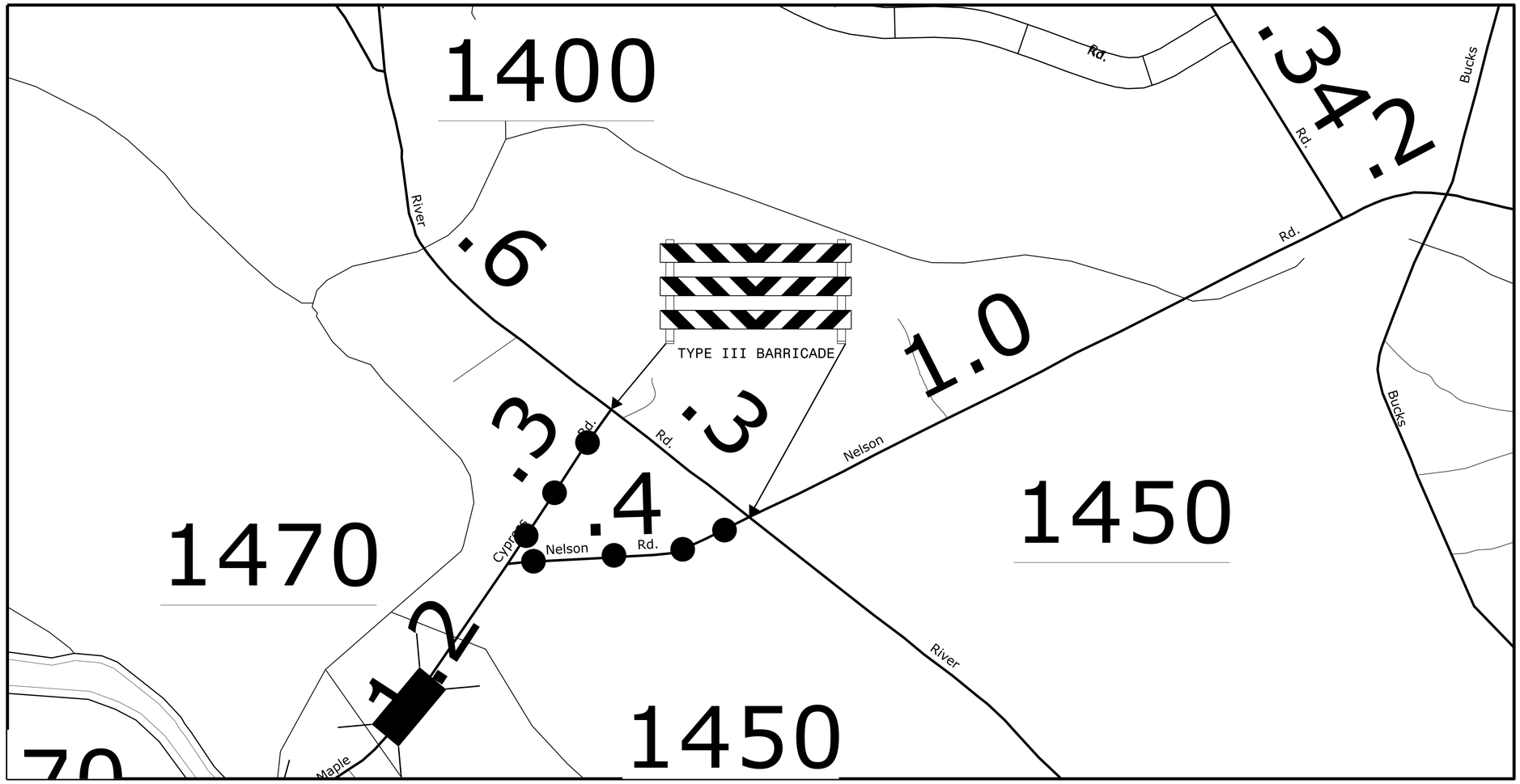
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE 1

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP4.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-3

PHASE 1 DETOUR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Heather C. Lane DATE: 03/20/2023

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASE 1 DETOUR

19-MAR-2023 19:18
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP3.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-5

PHASE II

STEP 1: - PLACE 1'-6" CONCRETE CURB AND GUTTER (SEE SHEET TMP-5)

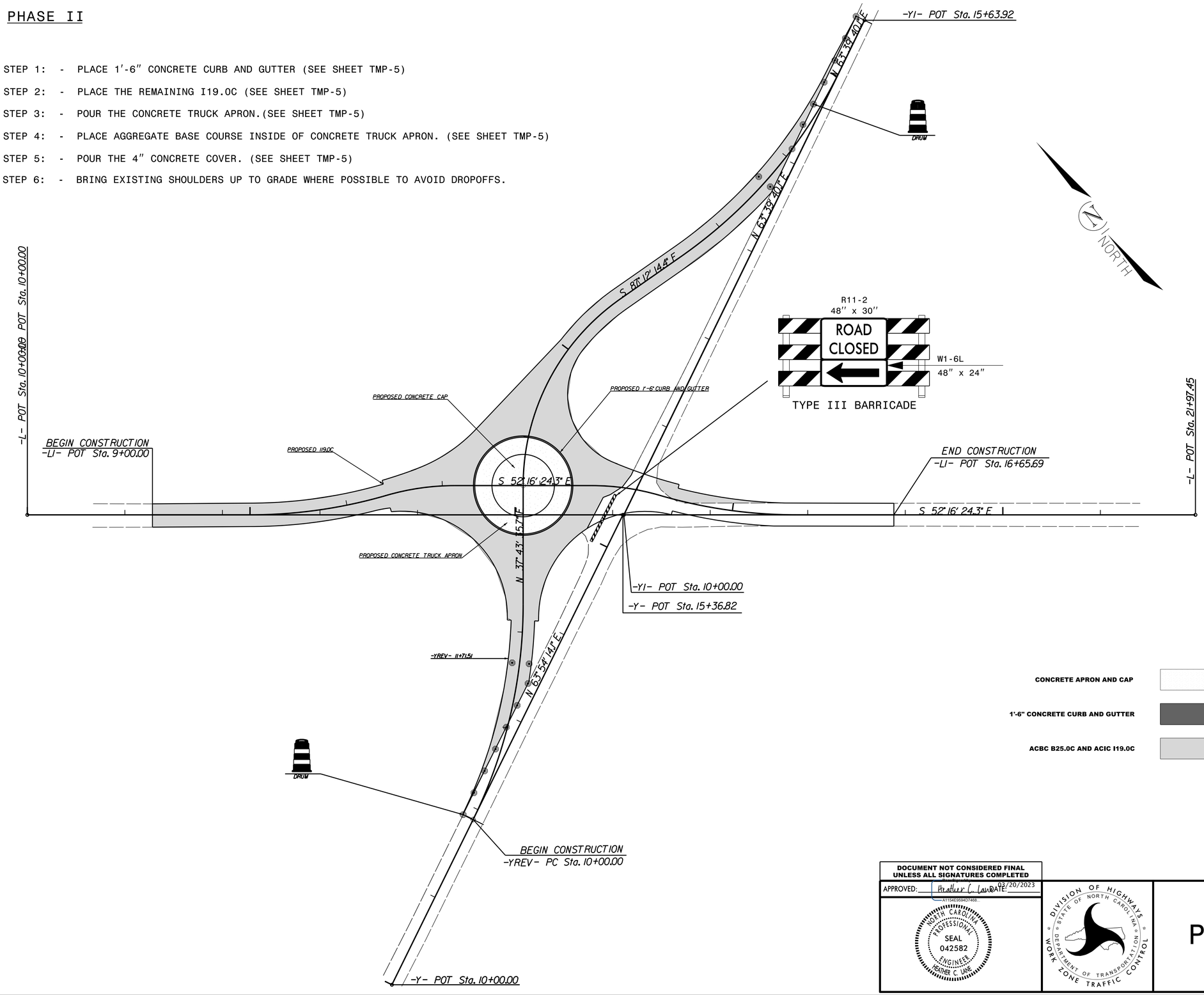
STEP 2: - PLACE THE REMAINING I19.0C (SEE SHEET TMP-5)

STEP 3: - POUR THE CONCRETE TRUCK APRON.(SEE SHEET TMP-5)

STEP 4: - PLACE AGGREGATE BASE COURSE INSIDE OF CONCRETE TRUCK APRON. (SEE SHEET TMP-5)

STEP 5: - POUR THE 4" CONCRETE COVER. (SEE SHEET TMP-5)

STEP 6: - BRING EXISTING SHOULDERS UP TO GRADE WHERE POSSIBLE TO AVOID DROPOFFS.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Heather C. Lane DATE: 03/20/2023

A31154E9984027468...

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASE II

19-MAR-2023 9:18
C:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP5.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-6

PHASE III

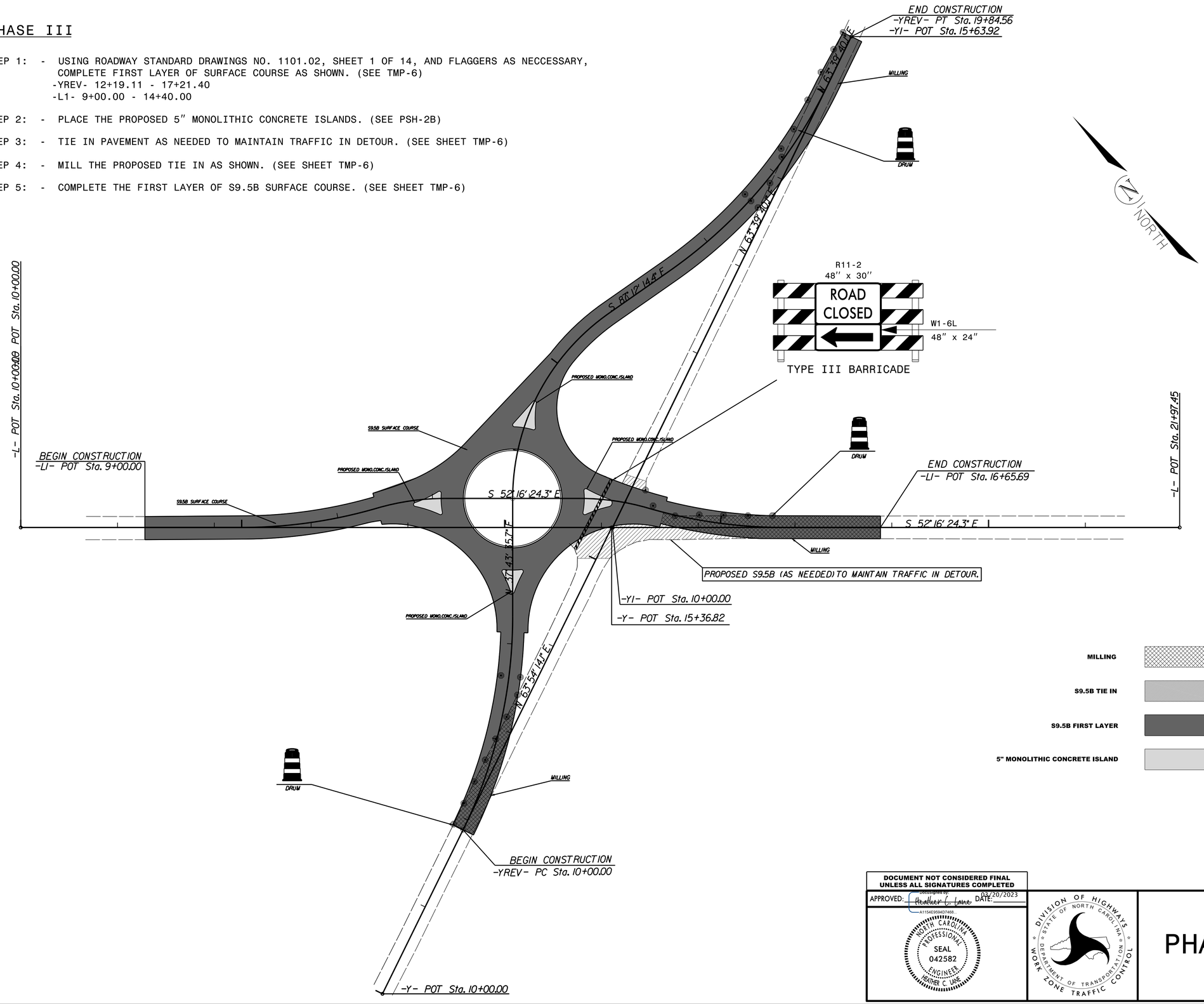
STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE FIRST LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-6)
-YREV- 12+19.11 - 17+21.40
-L1- 9+00.00 - 14+40.00

STEP 2: - PLACE THE PROPOSED 5" MONOLITHIC CONCRETE ISLANDS. (SEE PSH-2B)

STEP 3: - TIE IN PAVEMENT AS NEEDED TO MAINTAIN TRAFFIC IN DETOUR. (SEE SHEET TMP-6)

STEP 4: - MILL THE PROPOSED TIE IN AS SHOWN. (SEE SHEET TMP-6)

STEP 5: - COMPLETE THE FIRST LAYER OF S9.5B SURFACE COURSE. (SEE SHEET TMP-6)



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Heather C. Lane (Heather C. Lane) DATE: 03/20/2023

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASE III

19-MAR-2023 9:18
C:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP6.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-7

PHASE IV

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE THE FINAL LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-7)

STEP 2: - COMPLETE SIGNING. (SEE SIGNING PLANS)

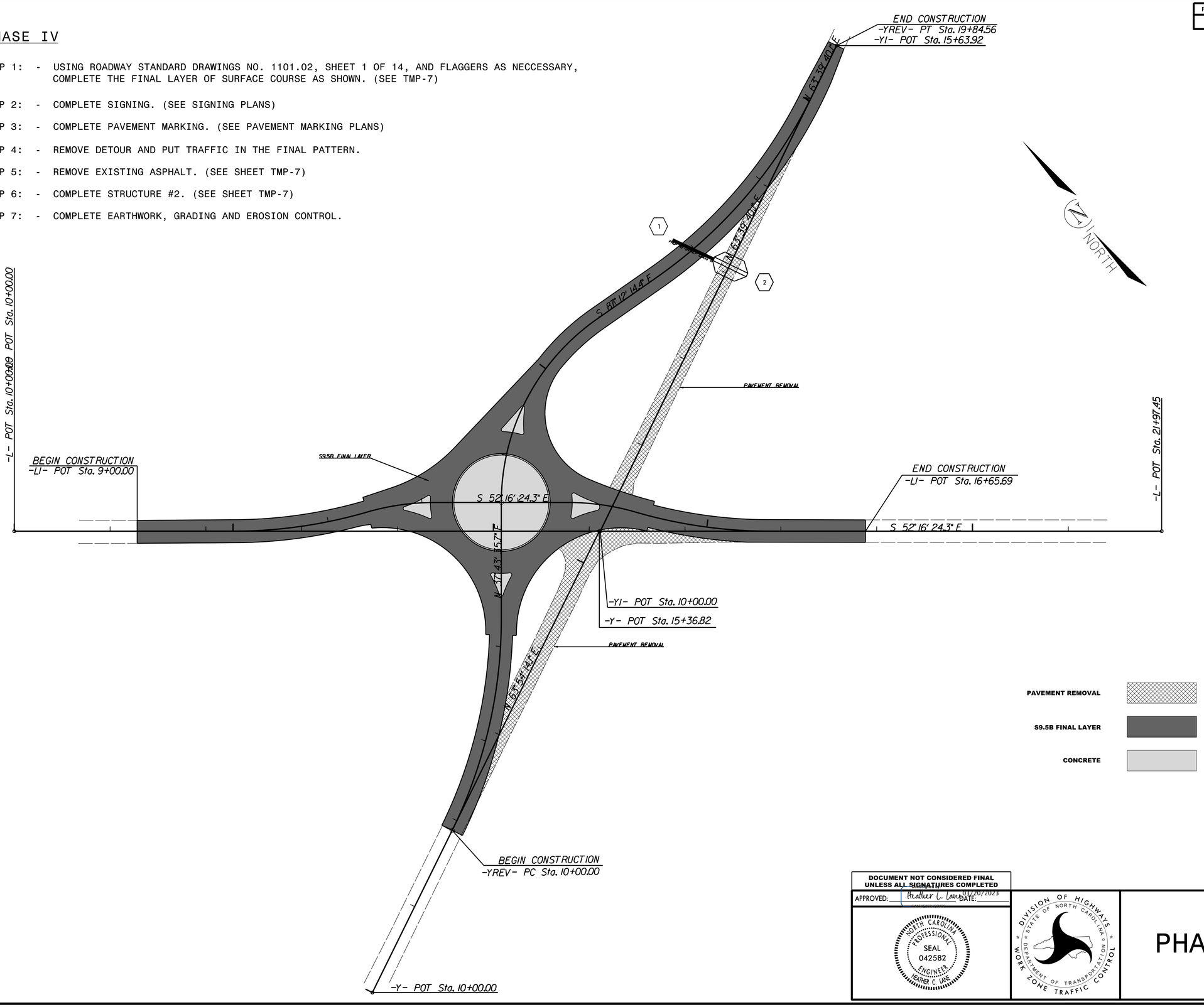
STEP 3: - COMPLETE PAVEMENT MARKING. (SEE PAVEMENT MARKING PLANS)

STEP 4: - REMOVE DETOUR AND PUT TRAFFIC IN THE FINAL PATTERN.

STEP 5: - REMOVE EXISTING ASPHALT. (SEE SHEET TMP-7)

STEP 6: - COMPLETE STRUCTURE #2. (SEE SHEET TMP-7)

STEP 7: - COMPLETE EARTHWORK, GRADING AND EROSION CONTROL.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Heather C. Lane DATE: 03/20/2023

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASE IV

19-MAR-2023 19:18
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP7.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	PMP1

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042582 HEATHER C. LANE
03/20/2023

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042582 HEATHER C. LANE
03/20/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN
CRAVEN COUNTY

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD)
AT SR 1450 (NELSON ROAD)
NEAR VANCEBORO

2018 ROADWAY ENGLISH STANDARD DRAWING

EFF. 01-16-2018
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" - PROJECT SERVICES UNIT N. C. Department of Transportation - Raleigh, N. C. Dated January, 2018 are applicable to this project and by reference hereby are CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE & MULTI LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS

GENERAL NOTES

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

A) INSTALL THERMOPLASTIC PAVEMENT MARKINGS ON THE FINAL SURFACE FOR ALL ROADWAYS.
B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

INDEX OF SHEETS

SHEET #	DESCRIPTION
PM-1	PAVEMENT MARKING PLAN TITLE SHEET
PM-2	PAVEMENT MARKING DETAIL AND SCHEDULE

REVISIONS

8/17/99

19-MAR-2023 19:18
S:\TPB\CS\W5702V\DEN\W-5702V_psh_pmp1.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	PMP2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE 03/20/2023

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

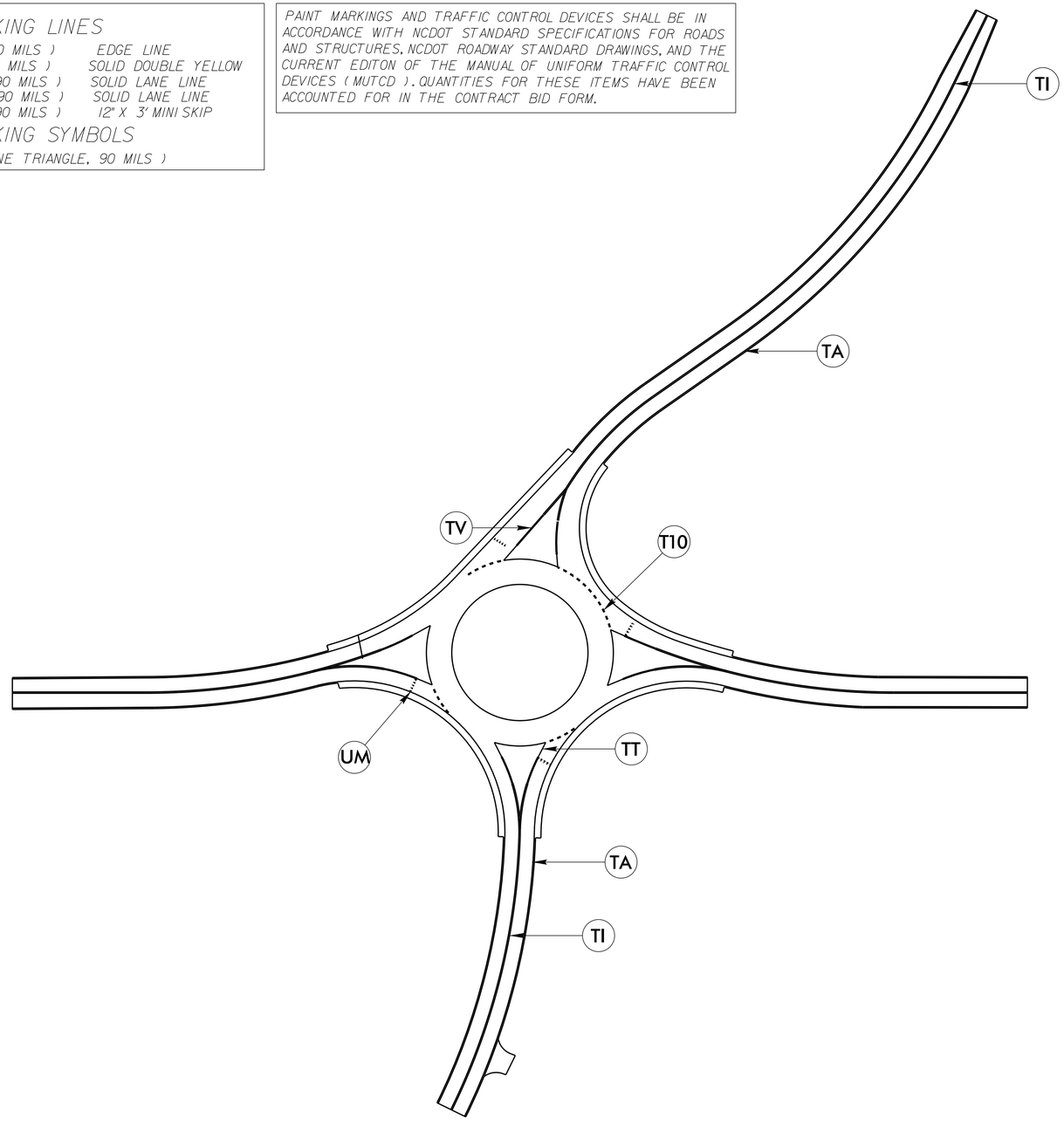
TA - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGE LINE
TI - THERMOPLASTIC (4" YELLOW, 90 MILS)	SOLID DOUBLE YELLOW
TT - THERMOPLASTIC (12" WHITE, 90 MILS)	SOLID LANE LINE
TV - THERMOPLASTIC (12" YELLOW, 90 MILS)	SOLID LANE LINE
T10 - THERMOPLASTIC (12" WHITE, 90 MILS)	12" X 3' MINI SKIP

PAVEMENT MARKING SYMBOLS

UM - THERMOPLASTIC (12" YIELD LINE TRIANGLE, 90 MILS)

NOTES

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

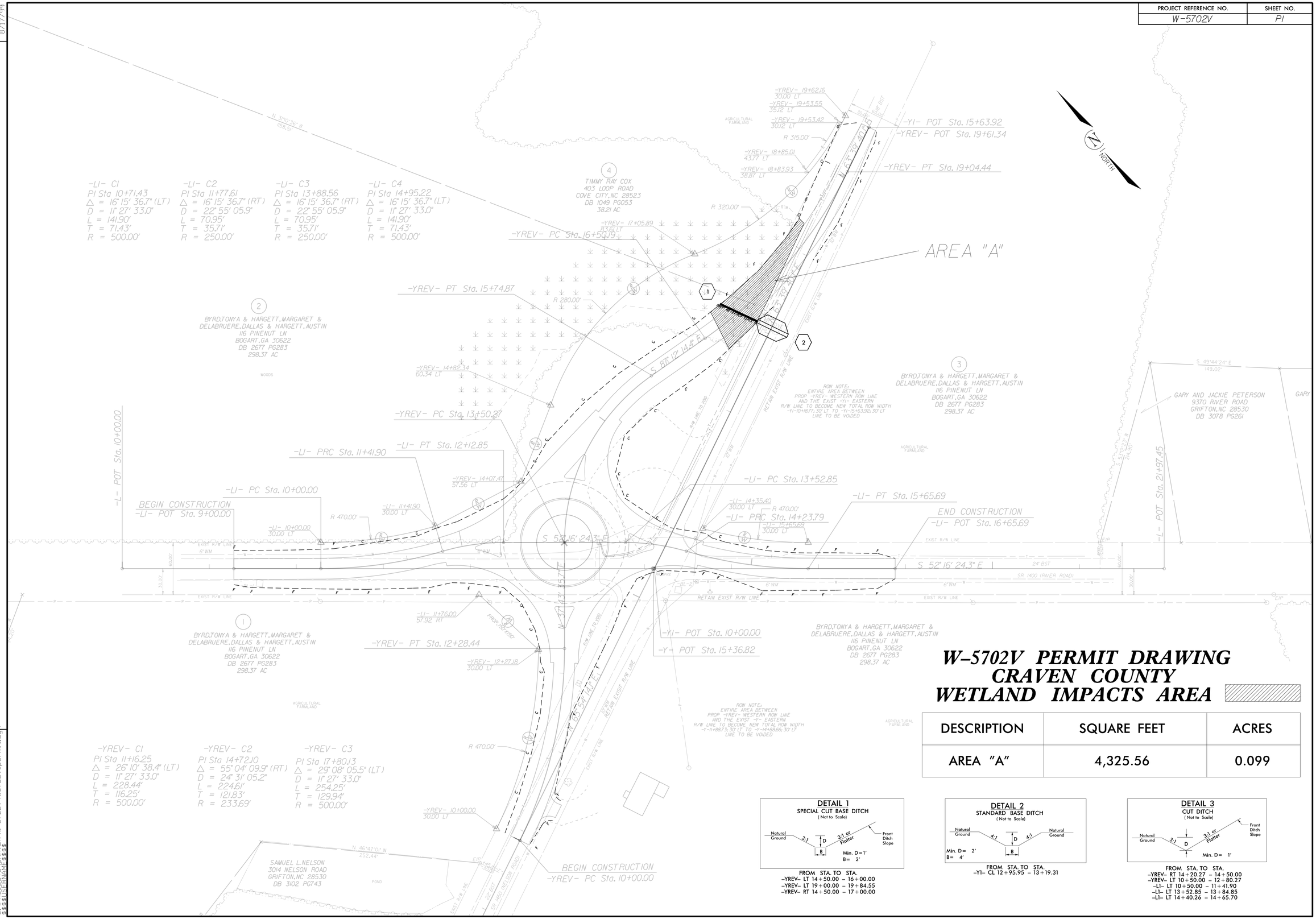


REVISIONS

8/17/99

19-MAR-2023 19:18
C:\SDI\CONNECT\ENV\W-5702V\W5702V_psh_pmp2.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	P1



W-5702V PERMIT DRAWING
CRAVEN COUNTY
WETLAND IMPACTS AREA

DESCRIPTION	SQUARE FEET	ACRES
AREA "A"	4,325.56	0.099

DETAIL 1
SPECIAL CUT BASE DITCH
(Not to Scale)

FROM STA. TO STA.
-YREV- LT 14+50.00 – 16+00.00
-YREV- LT 19+00.00 – 19+84.55
-YREV- RT 14+50.00 – 17+00.00

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)

FROM STA. TO STA.
-Y1- CL 12+95.95 – 13+19.31

DETAIL 3
CUT DITCH
(Not to Scale)

FROM STA. TO STA.
-YREV- RT 14+20.27 – 14+50.00
-YREV- LT 10+50.00 – 12+80.27
-L1- LT 10+50.00 – 11+41.90
-L1- LT 13+52.85 – 13+84.85
-L1- LT 14+40.26 – 14+65.70

REVISIONS

8/17/99

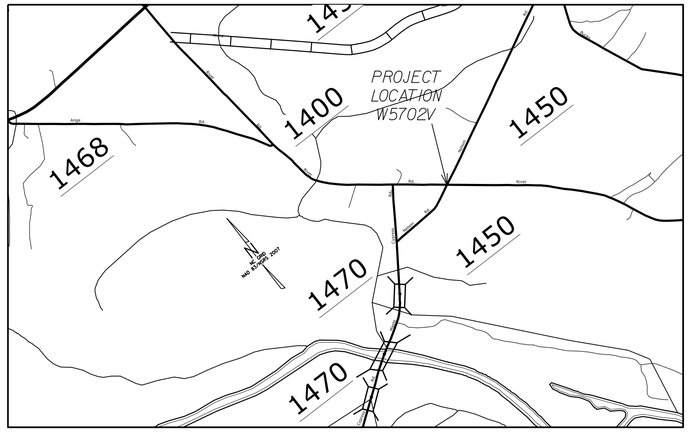
19-MAR-2023 13:18
C:\SIGNERNAME\SS\W-5702V\W5702V_permit.dgn
$$$$USERNAME$$$$

09/08/99

TIP PROJECT: W5702V

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W5702V	EC1	2

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44848.1.22	1400014	PE
44848.2.22	1400014	RW
44848.3.22	1400014	CONST

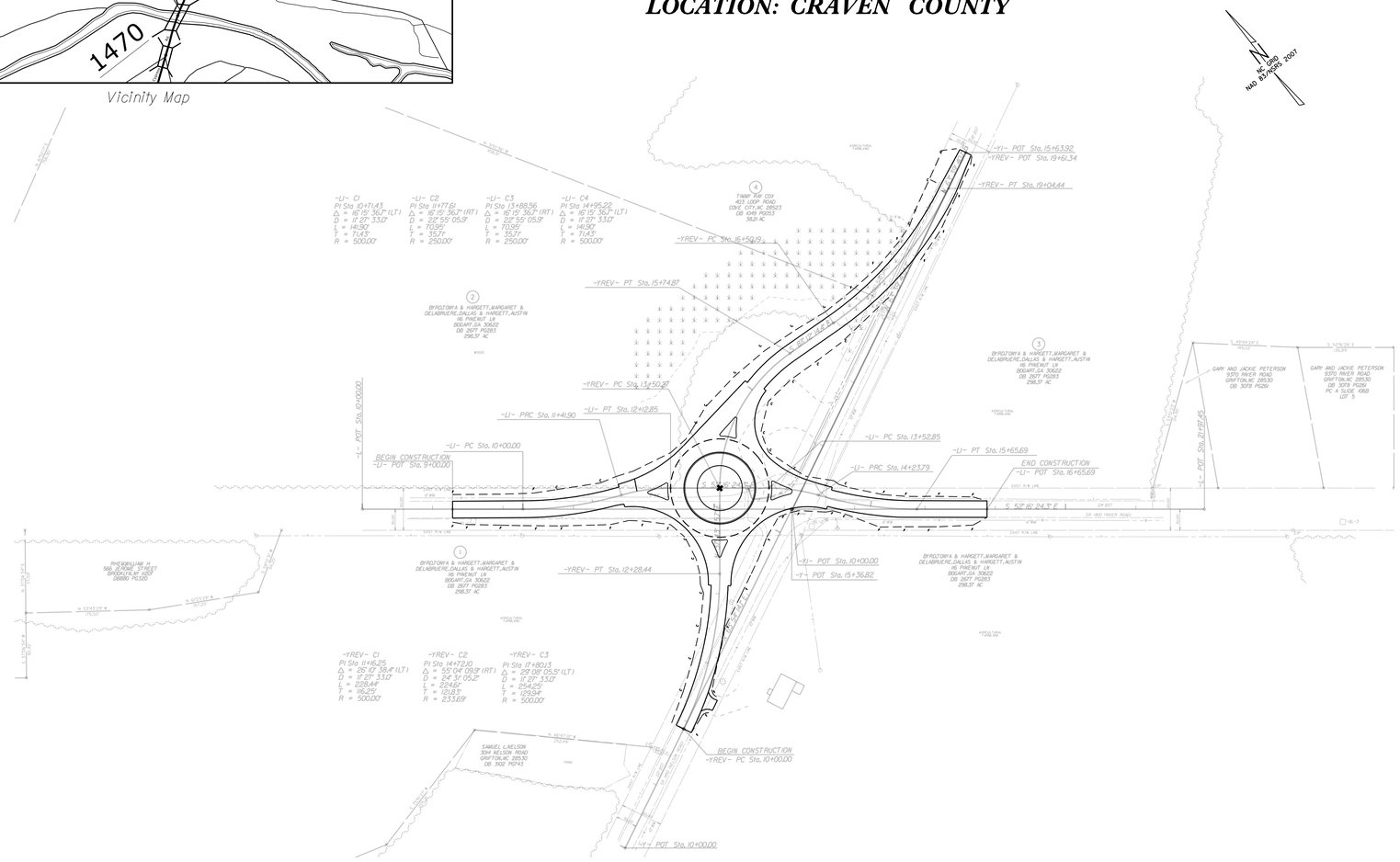


Vicinity Map

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LOCATION: CRAVEN COUNTY



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

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.

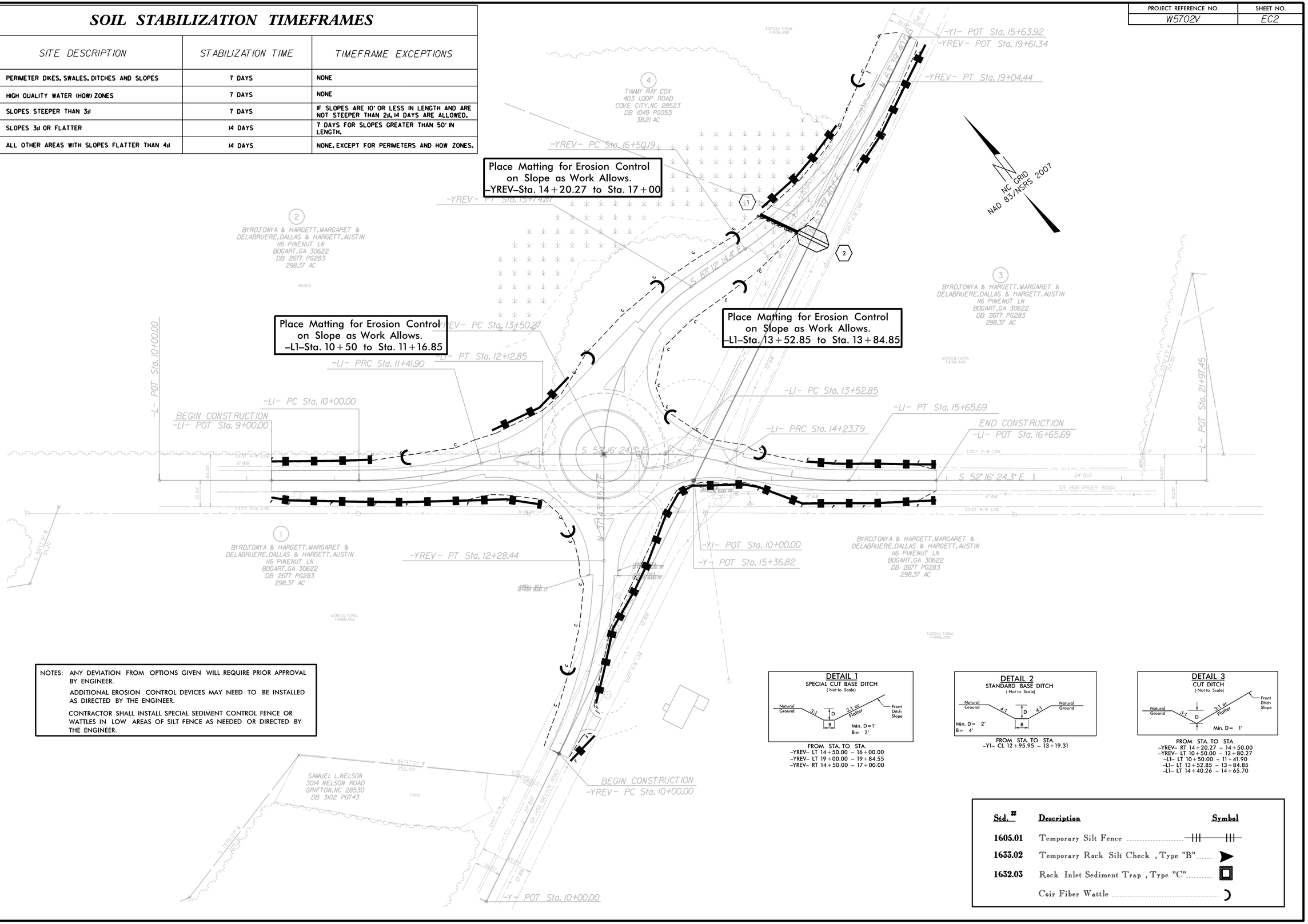
1604.01	Railroad Erosion Control Detail
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1607.01	Gravel Construction Entrance
1622.01	Temporary Berms and Slope Drains
1630.01	Riser Basin
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin
1630.05	Temporary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

19-MAR-2023 19:19
G:\PROJECTS\CRAVEN\W-5702V\W5702V_psh_ec1.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W5702V	EC2

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.



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.

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1633.02	Temporary Rock Silt Check, Type "B"	
1632.03	Rock Inlet Sediment Trap, Type "C"	
	Coir Fiber Wattle	

REVISIONS 8/17/99

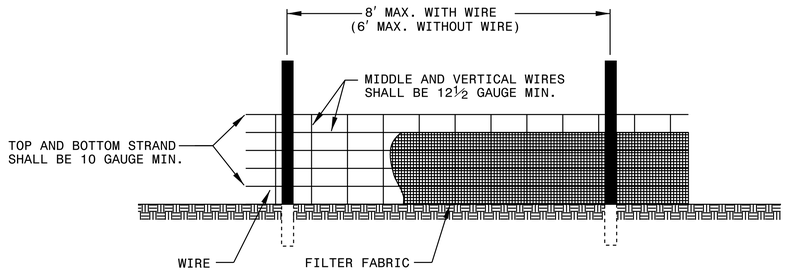
13-MAR-2023 13:19
G:\PROJECTS\CRAVEN\W-5702V\W5702V_psh_ec2.dgn
$$$$USERNAME$$$$

8/17/99

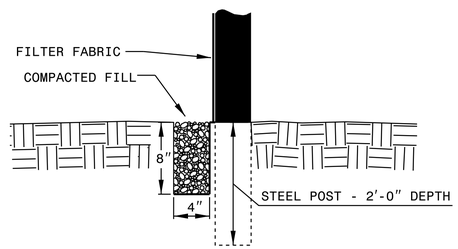
REVISIONS

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

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE



NOTES
USE WIRE A MINIMUM OF 32″ IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12″ STAY SPACING.
USE FILTER FABRIC A MINIMUM OF 36″ IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
PROVIDE 5′-0″ STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



EXTENSION OF FABRIC AND WIRE INTO TRENCH

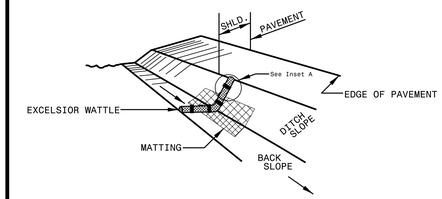
SHEET 1 OF 1
1605.01

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

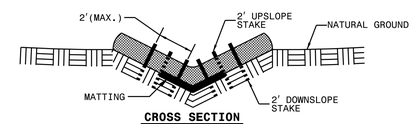
ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01

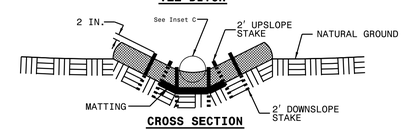
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

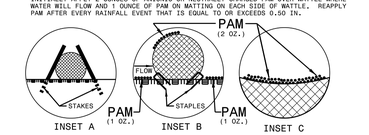
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

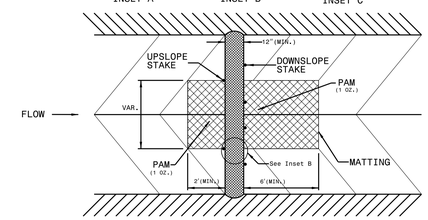
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

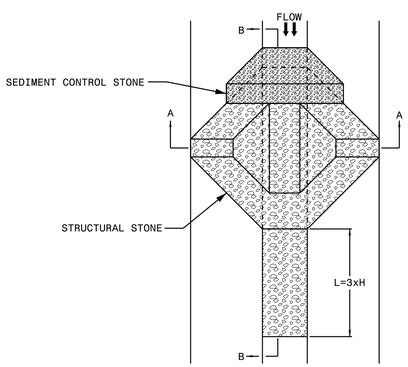




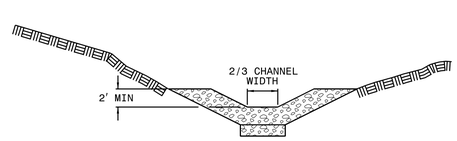
TOP VIEW

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

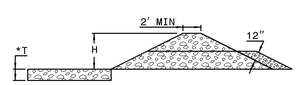
ENGLISH STANDARD DRAWING FOR
TEMPORARY ROCK SILT CHECK TYPE 'A'



PLAN



SECTION A-A



SECTION B-B
*T = 12″ MIN., 18″ MAX.

NOTE
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.

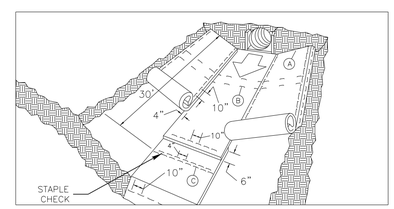
SHEET 1 OF 1
1633.01

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

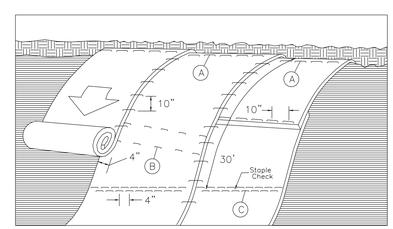
ENGLISH STANDARD DRAWING FOR
TEMPORARY ROCK SILT CHECK TYPE 'A'

SHEET 1 OF 1
1633.01

MATTING INSTALLATION DETAIL



MATTING IN DITCHES



MATTING ON SLOPES

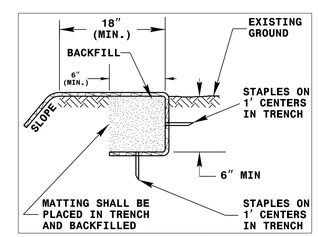


DIAGRAM (A)

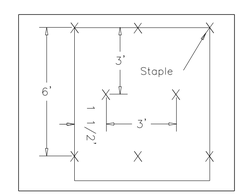


DIAGRAM (B)

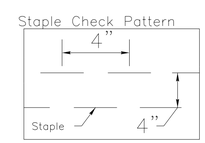


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

19-MAR-2023 13:19
S:\STD\STANDARDS\DWGS\W-5702V\W5702V_psh_ec3_.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	SIGN-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE
Digitally signed by Heather C. Lane
03/20/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SIGNING PLAN
CRAVEN COUNTY

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD) AT SR 1450 (NELSON ROAD) NEAR VANCEBORO

GENERAL NOTES

1. SIGNS SHALL BE FURNISHED BY THE STATE.
2. CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ADCTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
3. WHEN NOT STATIONED ON THE PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
4. THE BACKGROUND FOR TYPE 'E' AND 'F' SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

2018 ROADWAY ENGLISH STANDARD DRAWING

EFF. 01-16-2018
REV.

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

STD. NO.	TITLE
904.1	ORIENTATION OF GROUND MOUNTED SIGNS
904.5	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL POSTS
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

INDEX OF SHEETS

SHEET #	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE 'E' SIGNS
SIGN-3	SIGNING PLAN SHEET

SUMMARY OF QUANTITIES

ITEM NUMBER		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NUMBER	SECT. NUMBER			
4102000000	904	SIGN ERECTION, TYPE E	32	EA
4155000000	907	STOCKPILE SIGN D, E OR F	6	EA

REVISIONS

8/17/99

19-MAR-2023 19:19
S:\STIPEGAME\SIGN\W-5702V\W5702V_SIGN1.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	SIGN2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

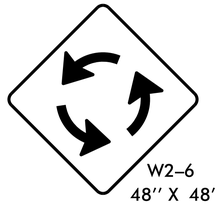
NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DocuSigned by: Heather C. Lane 4115A5B9A9D4A0A...

03/20/2023

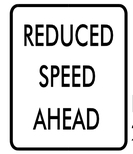
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

401 QUANTITY REQUIRED = 4



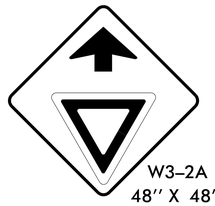
W2-6
48'' X 48''

406 QUANTITY REQUIRED = 4



R2-5 A
24'' X 30''

402 QUANTITY REQUIRED = 4

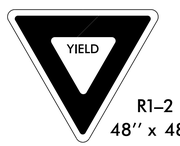


W3-2A
48'' X 48''

407 QUANTITY REQUIRED = 4

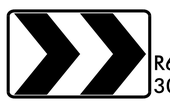
R2-1
24'' X 30''

403 QUANTITY REQUIRED = 8



R1-2
48'' x 48'' x 48''

404 QUANTITY REQUIRED = 4



R6-4
30'' X 24''

405 QUANTITY REQUIRED = 4

R2-1
24'' X 30''

TYPE E SIGNS

REVISIONS

8/17/99

19-MAR-2023 19:18
C:\PROJECTS\PENDENN\W-5702V\W5702V_SIGN2.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	SIGN3
R/W SHEET NO.	

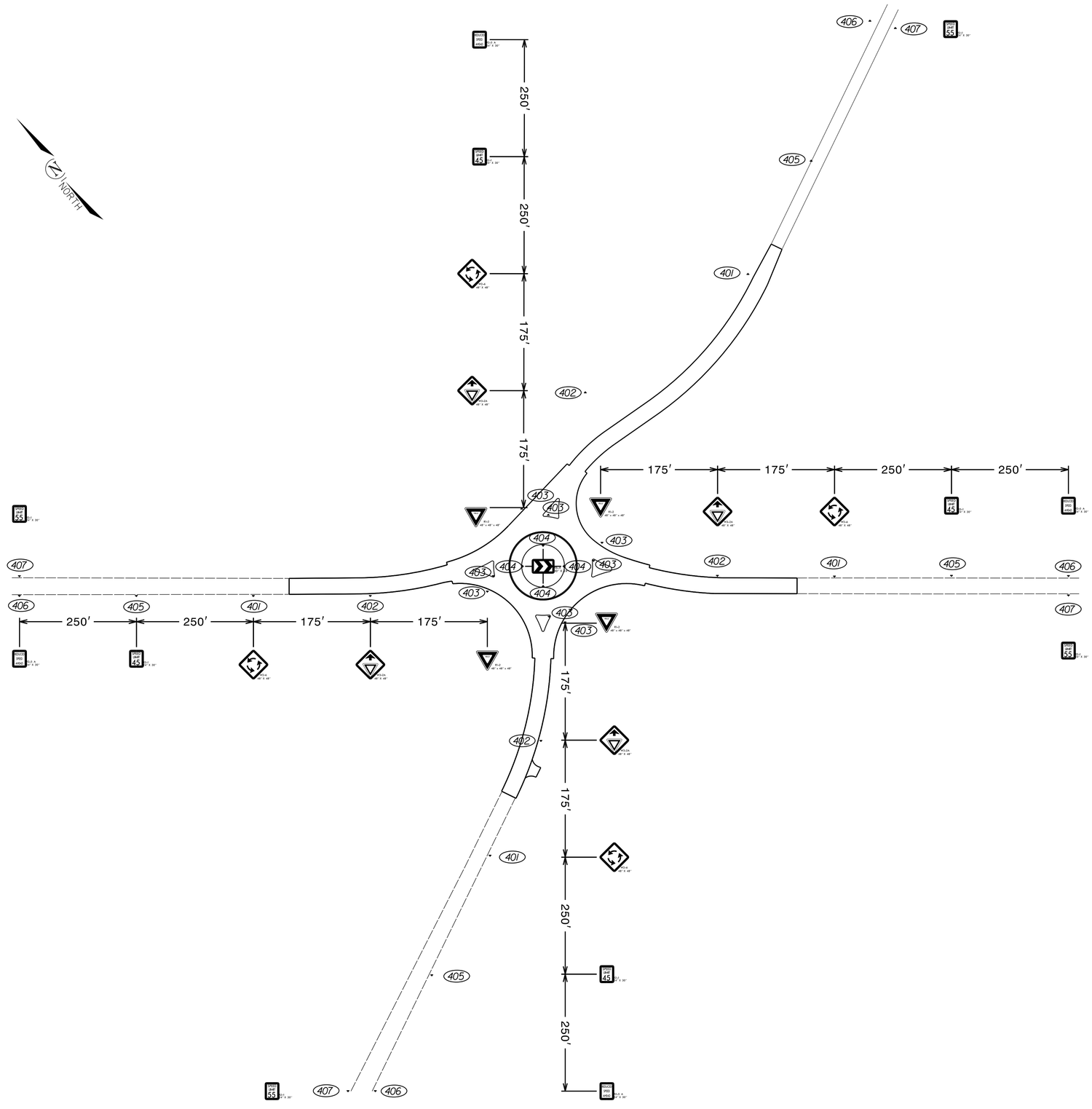
ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

Docusigned by: Heather C. Lane
A1784E9B9D0F4A9...

03/20/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



TYPE E SIGNS
NOT TO SCALE

REVISIONS

8/17/99

19-MAR-2023 13:19
S:\STD\TEAMS\TRAFFENG\W-5702V\W5702V_SIGN3.dgn
$$$$USERNAME$$$$

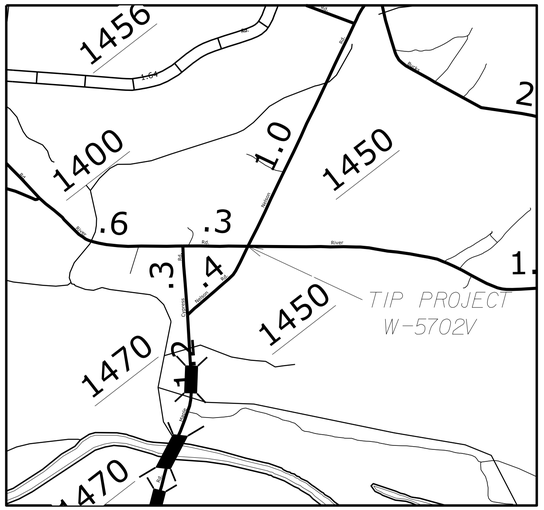
09/08/99

TIP PROJECT: W-5702V

T.I.P. NO.	SHEET NO.
W-5702V	UC-1

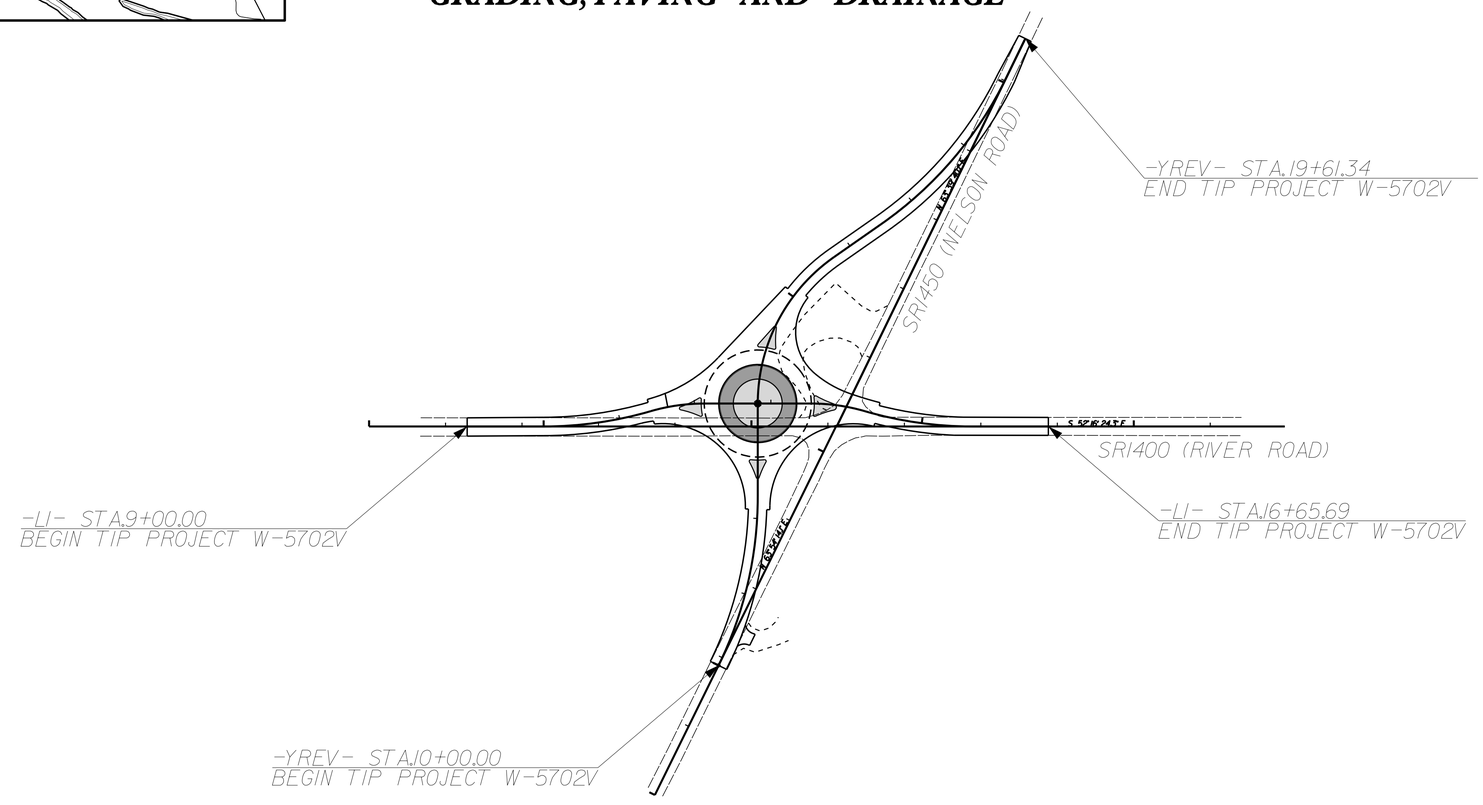
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

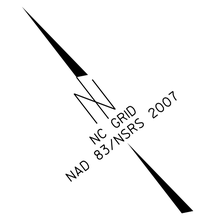
UTILITY CONSTRUCTION PLANS
CRAVEN COUNTY



LOCATION: INTERSECTION OF SR1400 (RIVER ROAD) AT SR1450 (NELSON ROAD)

TYPE OF WORK: CONSTRUCT RAB ON NEW LOCATION GRADING, PAVING AND DRAINAGE





NOTE: -YREV- ALIGNMENT REVISION NORTH OF UTILITY WORK

NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE REVISIONS.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

HON F. YEUNG, P.E.

ON 10/18/22

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES, DETAILS, QUANTITIES
UC-4	UTILITY CONSTRUCTION SHEET

WATER OWNER ON PROJECT

CRAVEN COUNTY WATER

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 2022

LETTING DATE: APRIL 2023

HEATHER C. LANE, P.E.
PROJECT ENGINEER

RICH GODLEY
PROJECT DESIGN ENGINEER

UTILITY ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DocuSigned by: Heather C. Lane
SIGNATURE

P.E. 03/20/2023
03/20/2023

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

19-MAR-2023 19:19
G:\PROJECTS\CRAVEN\W-5702V\W5702V_PSH_ucl.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	UC2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

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

PROPOSED SEWER SYMBOLS

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

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Telephone Pedestal — TEL PED
- Utility Line by Others (Type as Shown) — PROP O/H POW LINES
- Trenchless Installation — 12" TL INSTALL
- Encasement by Open Cut — 24" ENCAS BY OC
- Encasement — 24" ENCASEMENT
- Thrust Block
- Air Release Valve — AR
- Utility Vault — UV
- Concrete Pier — CP
- Steel Pier — SP
- Plan Note — NOTE
- Pay Item Note — PAY ITEM

EXISTING UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Utility Pole
- Utility Pole with Base
- H-Frame Pole
- Power Transmission Line Tower
- Water Manhole
- Power Manhole
- Telephone Manhole
- Sanitary Sewer Manhole
- Hand Hole for Cable
- Power Transformer
- Telephone Pedestal
- CATV Pedestal
- Gas Valve
- Gas Meter
- Located Miscellaneous Utility Object
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.
- *Underground Power Line
- *Underground Telephone Cable
- *Underground Telephone Conduit
- *Underground Fiber Optics Telephone Cable
- *Underground TV Cable
- *Underground Fiber Optics TV Cable
- *Underground Gas Pipeline
- Aboveground Gas Pipeline — A/G Gas
- *Underground Water Line
- Aboveground Water Line — A/G Water
- *Underground Gravity Sanitary Sewer Line — SS
- Aboveground Gravity Sanitary Sewer Line — A/G Sanitary Sewer
- *Underground SS Forced Main Line
- Underground Unknown Utility Line
- SUE Test Hole
- Water Meter
- Water Valve
- Fire Hydrant
- Sanitary Sewer Cleanout

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

REVISIONS

8/17/99

19-MAR-2023 19:20
C:\WORKAREA\PWIDEN\W-5702V\W5702V_PSH_uc2.dgn
$$$$USERNAME$$$$

UTILITY CONSTRUCTION

GENERAL NOTES:

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

2. THE EXISTING UTILITY BELONGS TO CRAVEN COUNTY WATER AND SEWER.

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

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

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

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

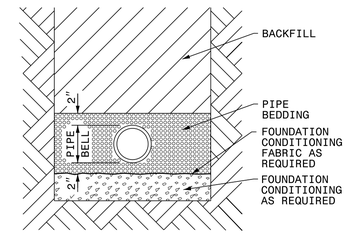
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

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

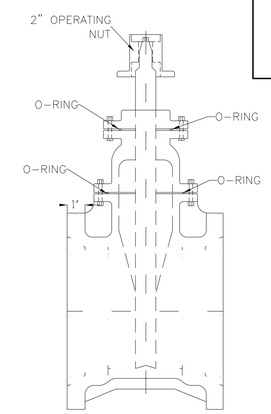
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

SECTION	QUANTITY	UNIT	ITEM DESCRIPTION
300	10	TONS	FOUNDATION CONDITIONING MATERIAL,MINOR STRUCTURES
300	30	SY	FOUNDATION CONDITIONING GEOTEXTILE
1510	460	LF	6" WATER LINE (C900)
1510	1,000	LB	DUCTILE IRON WATER PIPE FITTINGS
1515	3	EA	6" VALVE (GATE)
1530	460	LF	ABANDON 6" UTILITY PIPE
1540	70	LF	10" ENCASEMENT PIPE (STEEL)
1605	150	LF	TEMPORARY SILT FENCE
SP	60	LF	COIR FIBER WATTLE

TRENCH DETAIL

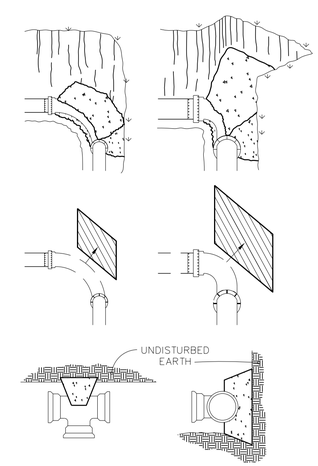


PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING ALONG CASINGS, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



TYPICAL RESILIENT MECHANCIAL JOINT GATE VALVE DETAIL

NTS



MINIMUM CONCRETE BLOCKING (C.Y.) *			
NOMINAL PIPE DIAMETER INCHES	TEES & DEAD ENDS	90° BEND	45° BEND
4	1/3	1/3	1/3
6	1/3	1/3	1/3
8	1/3	1/2	1/3
10	2/3	3/4	1/2
12	3/4	1.0	2/3
14	1.0	1 1/2	3/4
16	1 1/3	2.0	1.0
18	1 2/3	2 1/3	1 1/3
20	2.0	3.0	1 2/3
24	3.0	4 1/3	2 1/3

NOTES:

1) FITTING SHALL BE WRAPPED WITH A MINIMUM 4 MIL PLASTIC.
2) NO CONCRETE SHALL COVER BOLTS OR GLANDS.

* CONCRETE SHALL BE 3000 P.S.I. MIX.

STANDARD REACTION BLOCKING

NTS

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	UC3
R/W SHEET NO.	

UTILITY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE 03/20/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTE: -YREV- ALIGNMENT REVISION NORTH OF UTILITY WORK

NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE REVISIONS.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

HON F. YEUNG, P.E.

ON 10/18/22

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.

REVISIONS

8/17/99

19-MAR-2023 13:20
C:\SDC_WORK\CRAVEN\W-5702V\W5702V_PSH_uc3.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	UC4
R/W SHEET NO.	

UTILITY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER HON F. YEUNG 041513 03/07/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTE: -YREV- ALIGNMENT REVISION NORTH OF UTILITY WORK

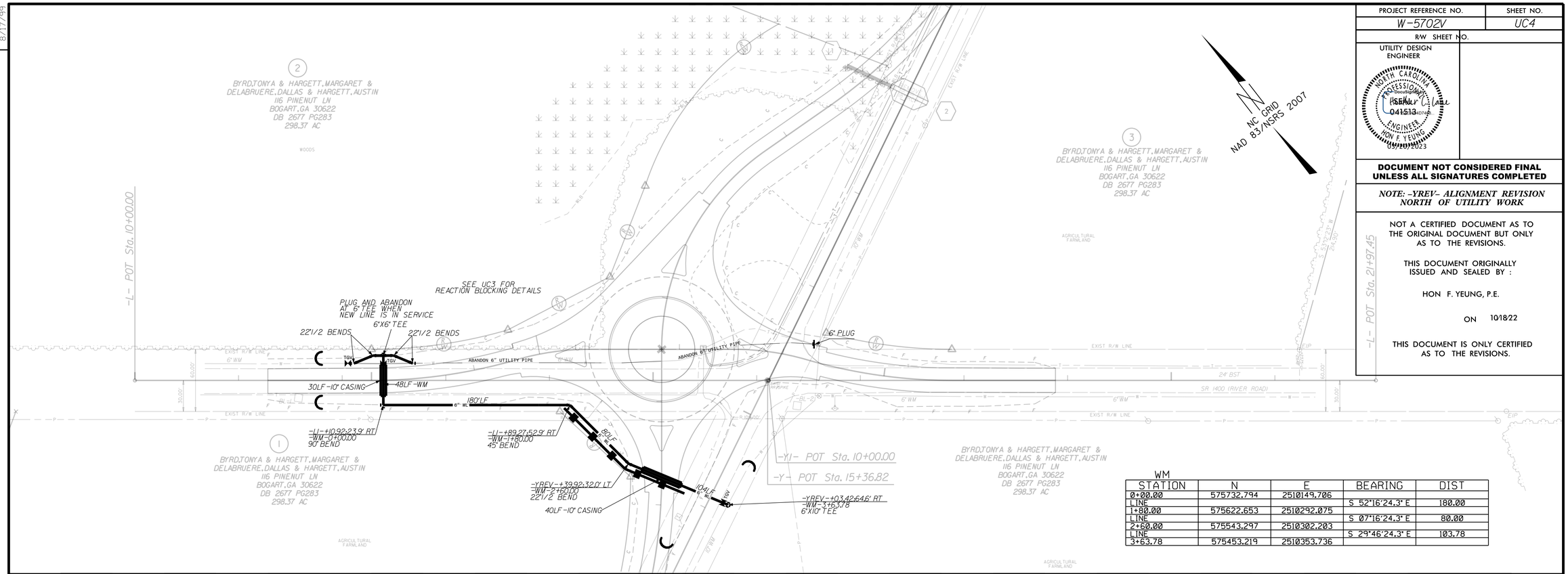
NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE REVISIONS.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

HON F. YEUNG, P.E.

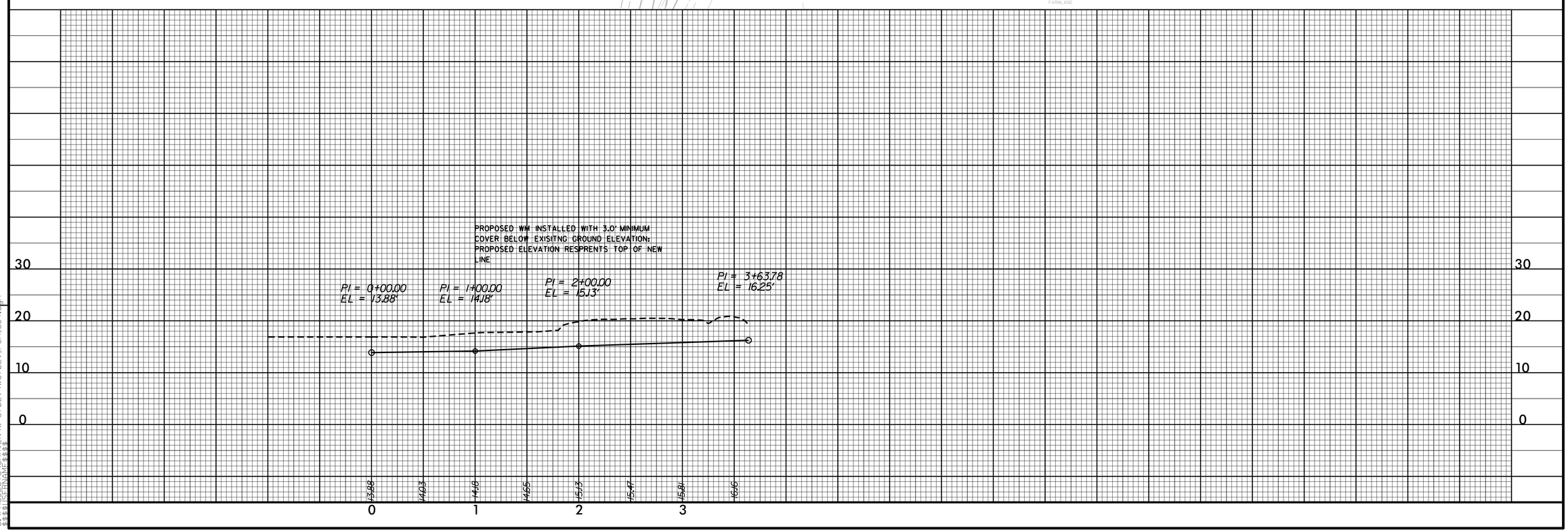
ON 10/18/22

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.



WM

STATION	N	E	BEARING	DIST
0+00.00	575732.794	2510149.706		
LINE			S 52°16'24.3" E	180.00
1+80.00	575622.653	2510292.075		
LINE			S 07°16'24.3" E	80.00
2+60.00	575543.297	2510302.203		
LINE			S 29°46'24.3" E	103.78
3+63.78	575453.219	2510353.736		



REVISIONS

8/17/99

19-MAR-2023 19:20
C:\WORKSPACE\HEN\W-5702V\W5702V_PSH_uc4.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W5702V	X-1A

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".

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS-SECTION SUMMARY

IN CUBIC YARDS

LOCATION (-L1-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
9+00.00	0	0	0
9+20.00	18	0	2
9+68.00	39	0	11
9+84.00	11	0	7
10+00.00	9	0	10
10+16.00	7	0	13
10+50.00	11	0	37
11+00.00	8	0	79
11+16.85	1	0	36
11+41.90	1	0	75
11+64.85	0	0	99
12+12.85	0	0	333
12+47.85	3	0	309
12+82.85	3	0	332
13+17.85	0	0	292
13+52.85	12	0	143
13+68.85	14	0	18
13+84.85	12	0	6
14+00.85	4	0	2
14+40.26	14	0	3
14+48.85	6	0	0
14+65.70	8	0	1
15+15.70	11	0	10
15+49.70	2	0	13
15+69.69	1	0	8
15+81.69	0	0	5
15+97.69	0	0	7
16+45.69	0	0	12

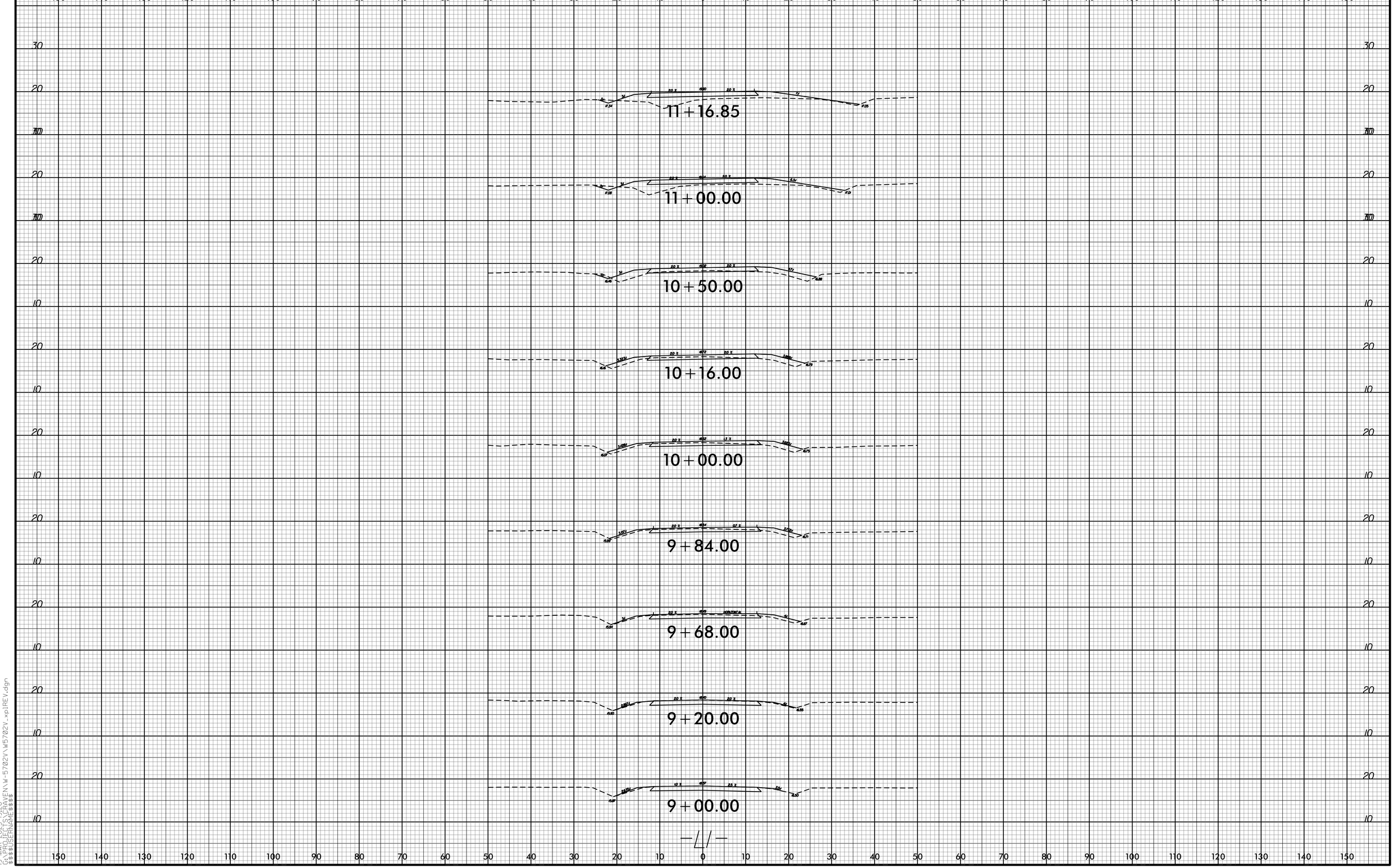
LOCATION (-YREV-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
10+00.00	0	0	0
10+50.00	4	0	6
11+00.00	11	0	6
11+50.00	19	0	3
12+00.00	18	0	23
12+11.93	3	0	11
12+28.44	5	0	17
12+50.00	7	0	26
12+80.27	5	0	56
14+20.53	0	0	0
14+50.00	32	0	26
15+00.00	60	0	13
15+50.00	87	0	5
16+00.00	113	0	0
16+50.00	79	0	6
17+00.00	24	0	106
17+50.00	0	0	153
18+00.00	1	0	85
18+50.00	6	0	46
19+00.00	15	0	21
19+50.00	24	0	10
19+61.34	3	0	1

LOCATION (-Y1-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
12+95.95	0	0	0
13+05.63	16	0	0
13+09.63	12	0	0
13+19.31	16	0	0

Rev. 3/6/01
19-MAR-2023 19:20
C:\WORKAREA\ENV\w-5702V\W5702V_PSHX1A.dgn
$$$$USERNAME$$$$

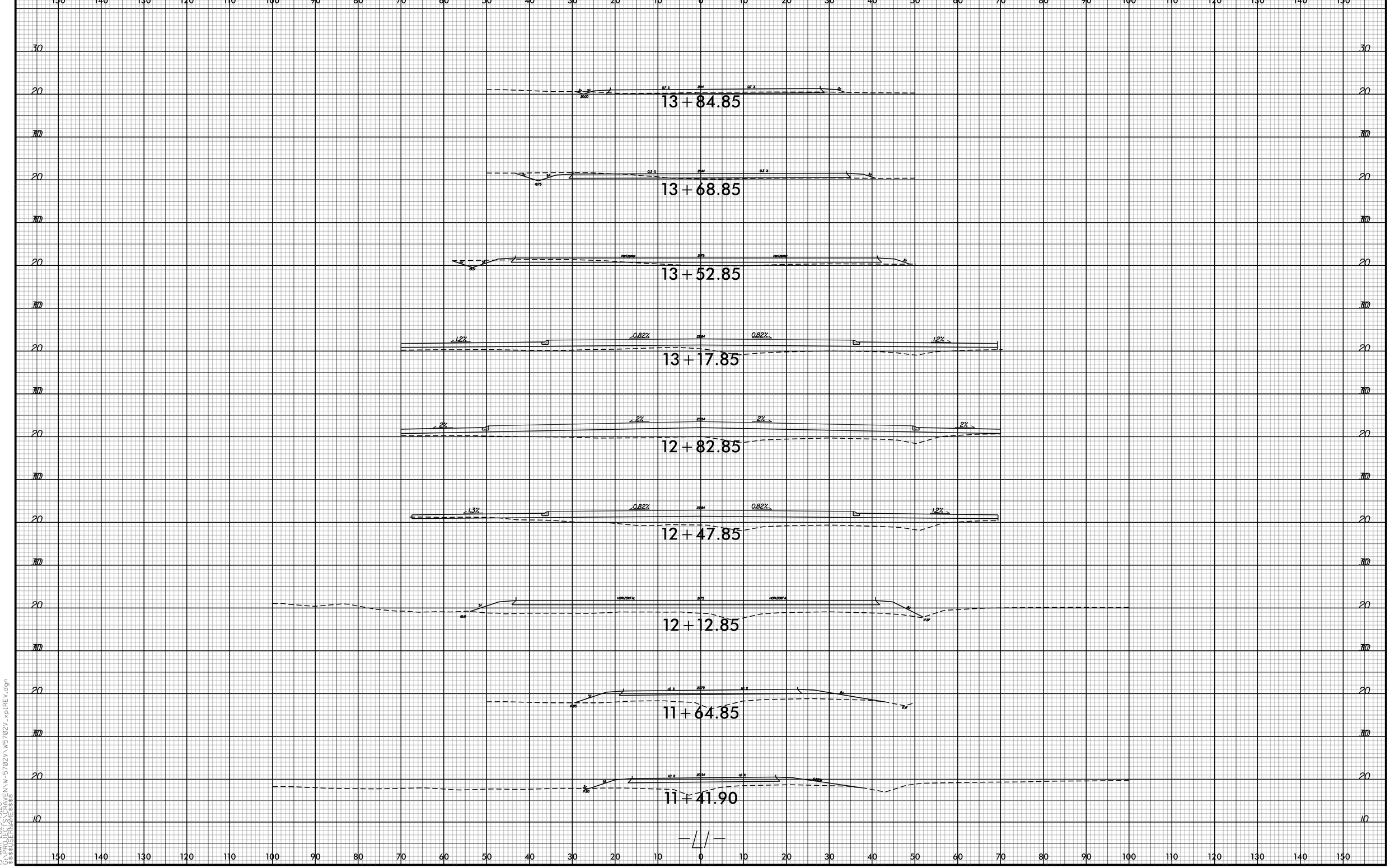
6/23/16

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



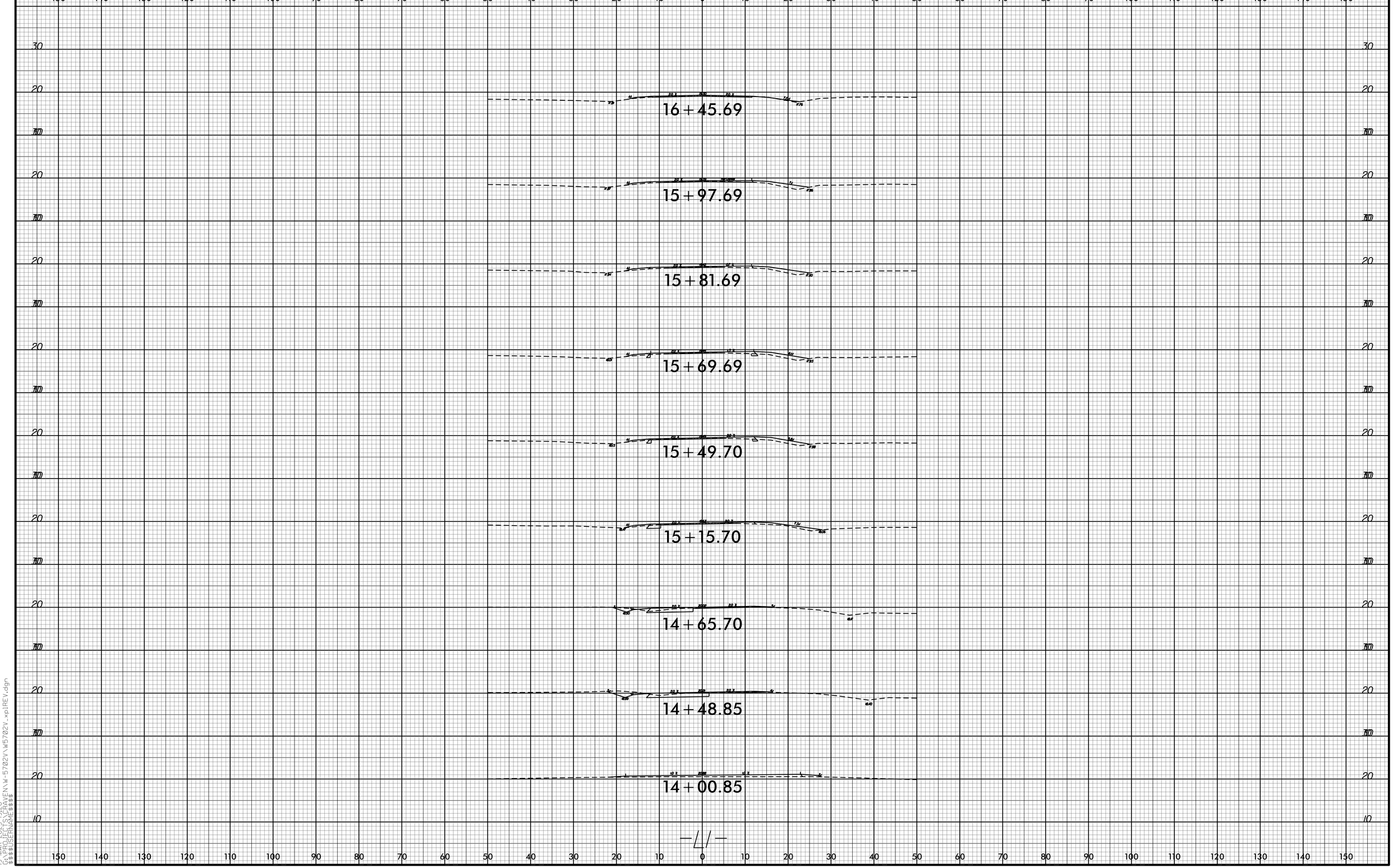
19-MAR-2023 9:20
C:\PROJECTS\OPEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	X-2



6/23/16
19-MAR-2023 9:20
C:\PROJECTS\W5702V\DESIGN\W-5702V-xp1REV.dgn
$$$$USERNAME$$$$

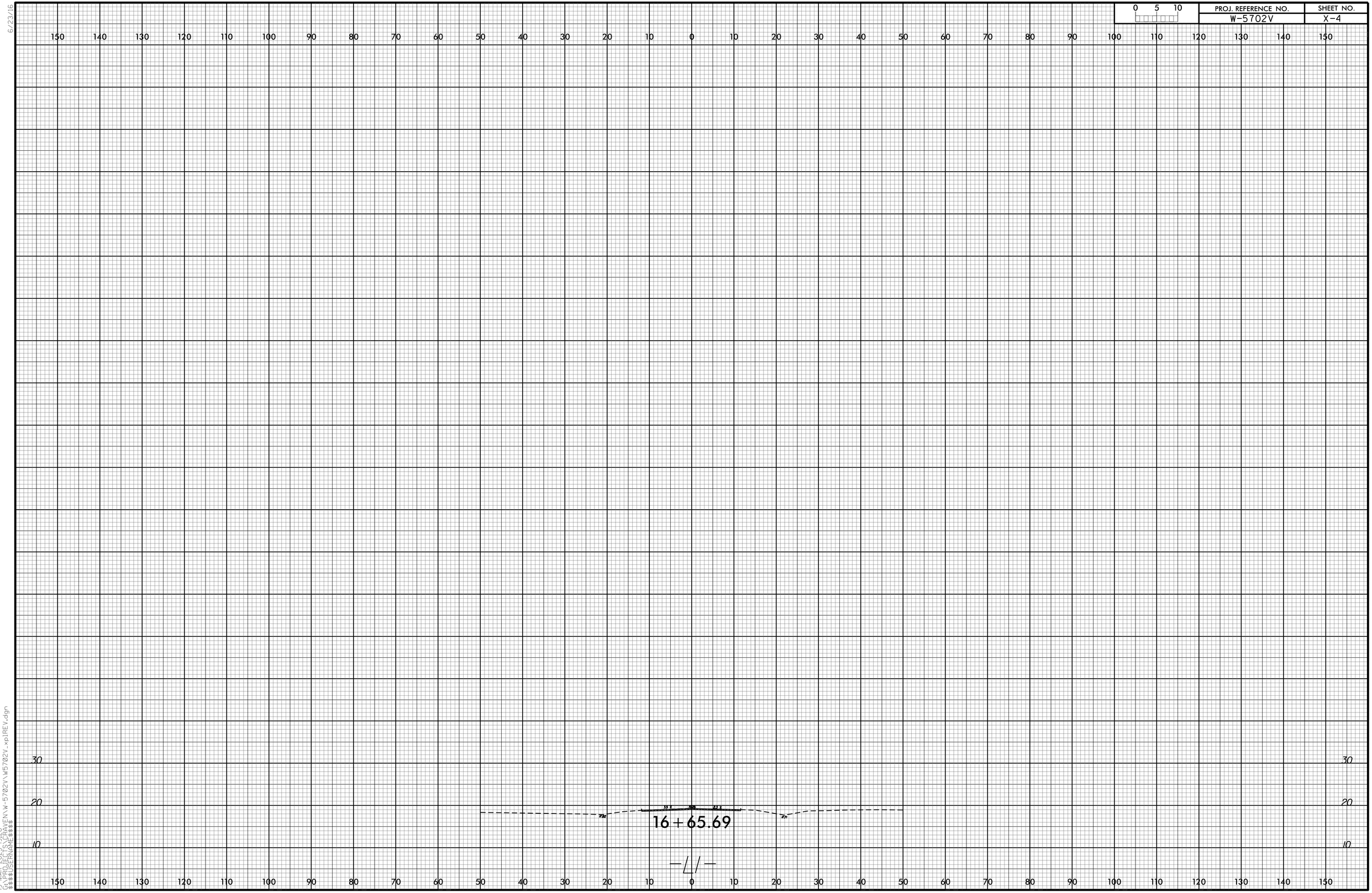
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702V	X-3



6/23/16
19-MAR-2023 9:20
C:\PROPOSAL\GEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

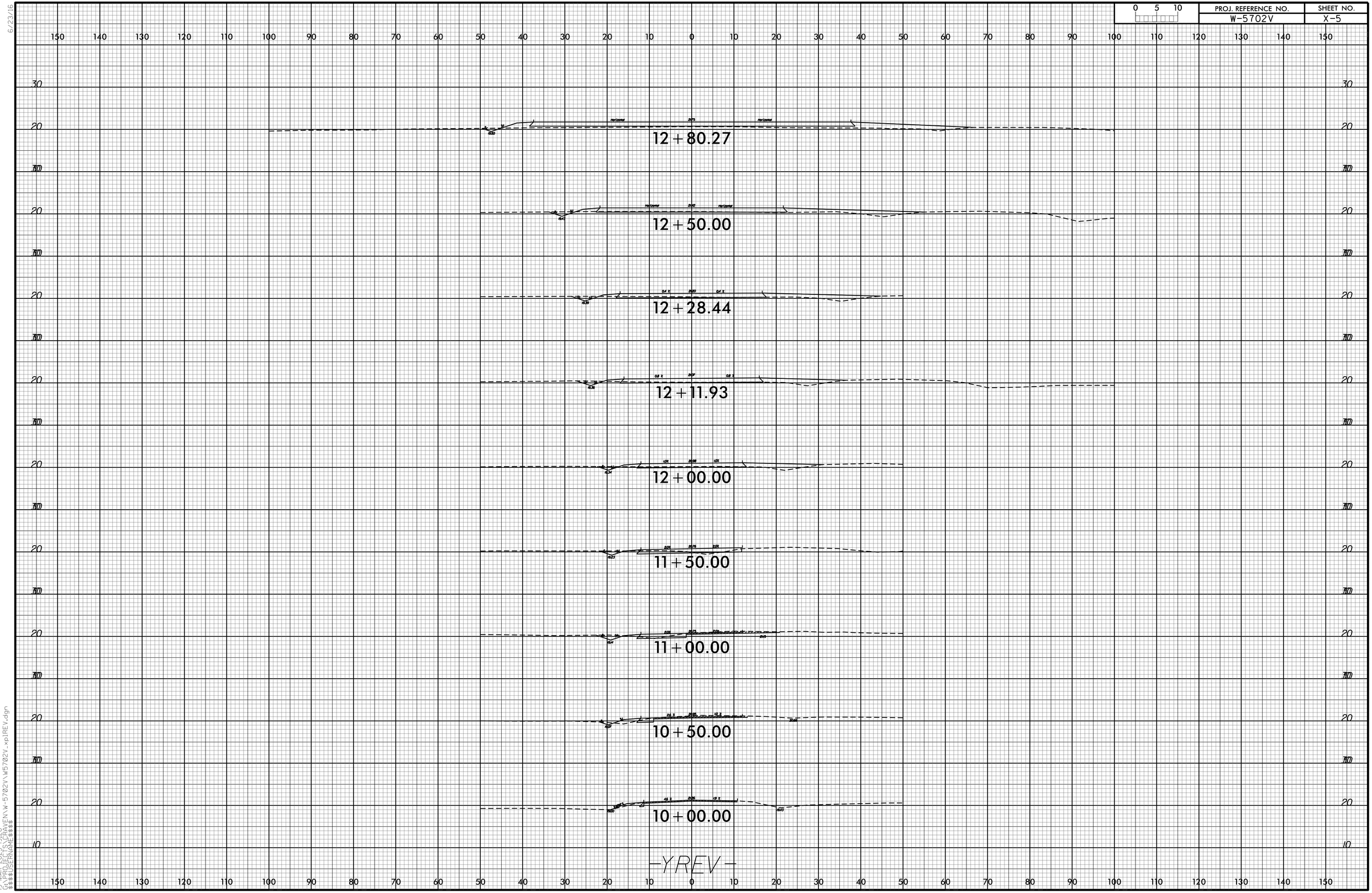
6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702V	X-4



19-MAR-2023 9:20
C:\PROJECTS\CADD\EN\W-5702V\W5702V_xp1REV.dgn
$$$$USERNAME$$$$

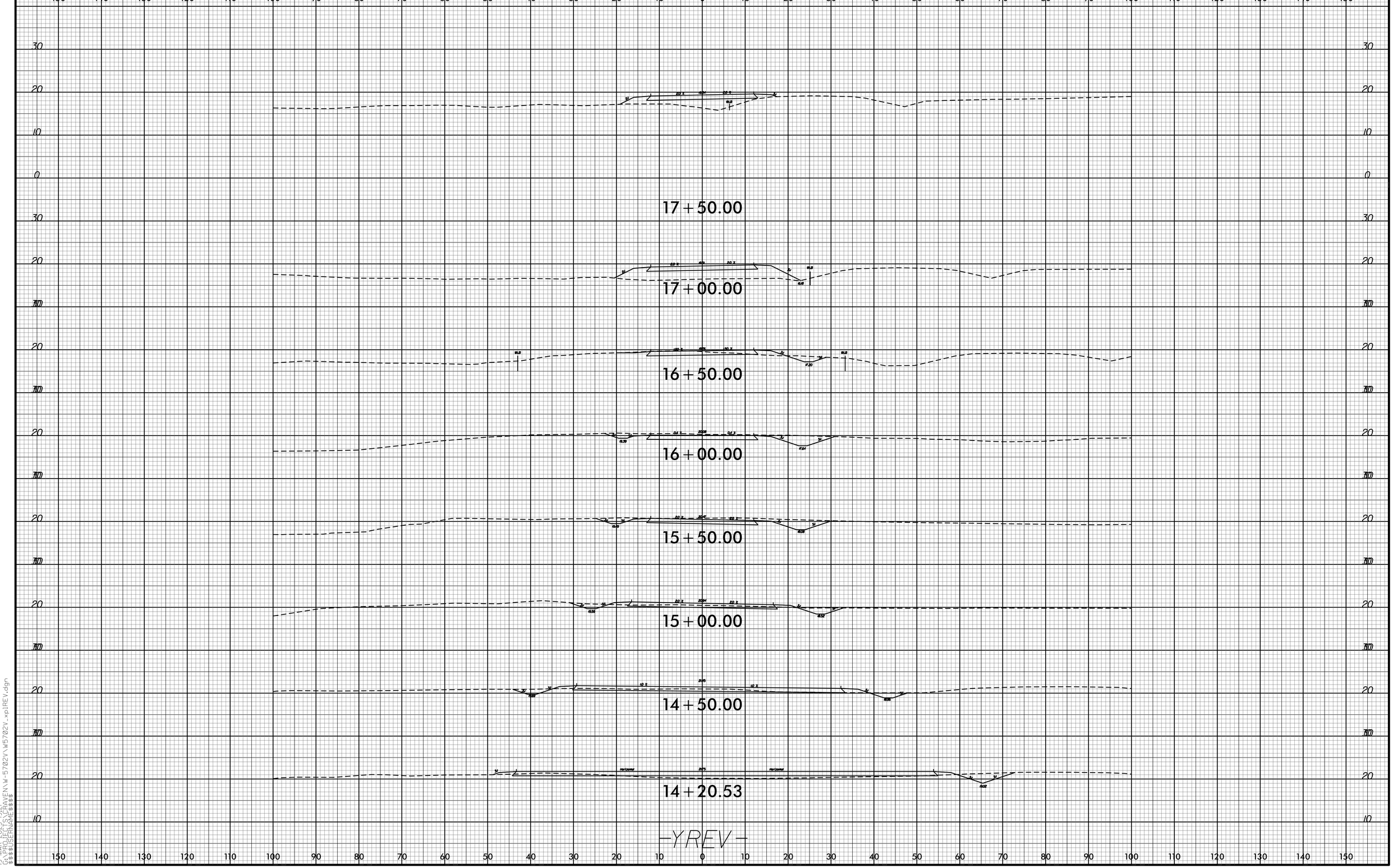
PROJ. REFERENCE NO.	SHEET NO.
W-5702V	X-5



6/23/16

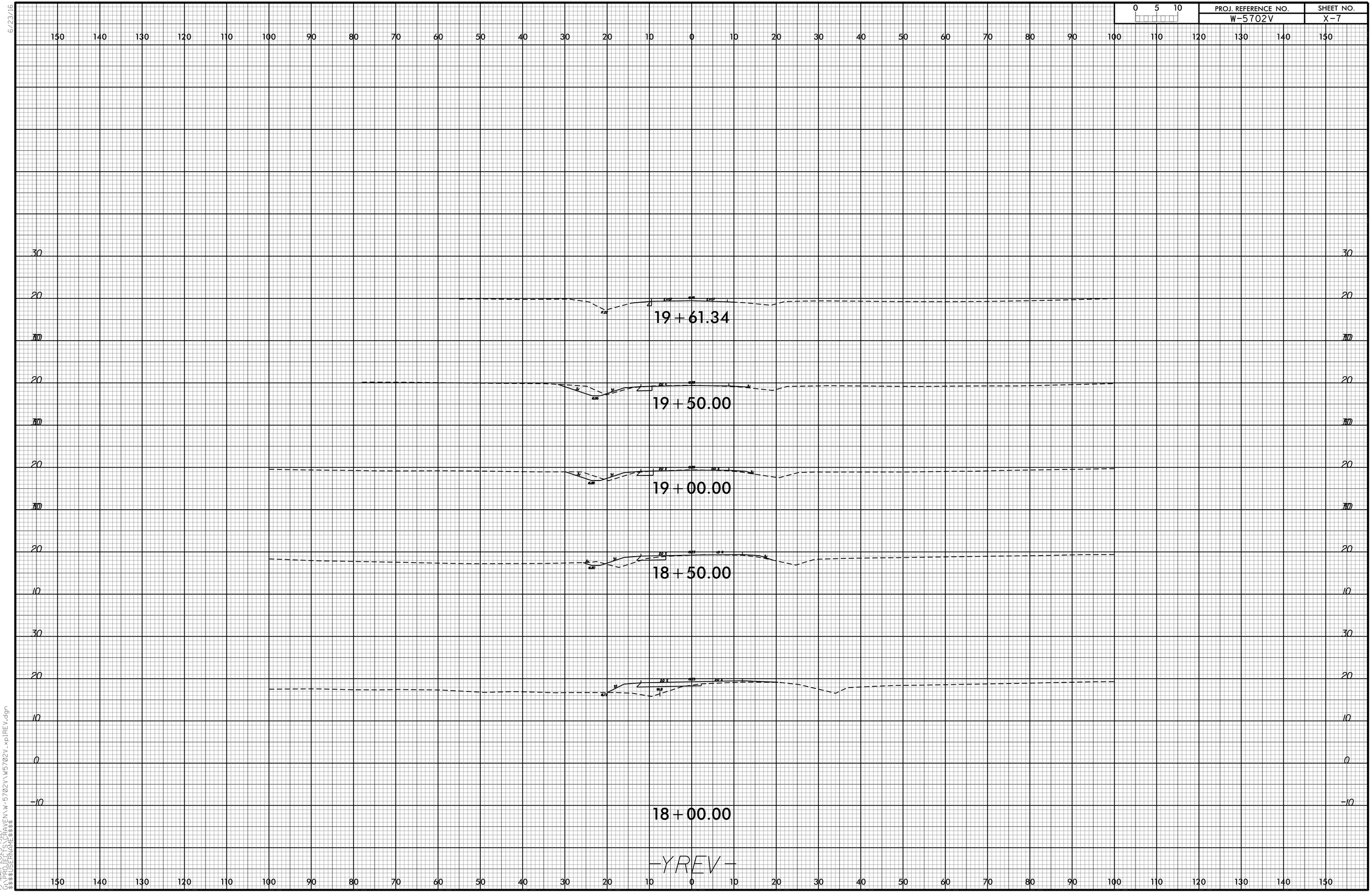
19-MAR-2023 9:20
C:\PROGRAMDATA\BENTLEY\ENV\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702V	X-6



6/23/16
19-MAR-2023 9:21
C:\PROJECTS\RAVEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	X-7



6/23/16

19-MAR-2023 9:21
C:\PROJECTS\RAVEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

09/08/99

TIP PROJECT: W-5702V

CONTRACT: DB00427

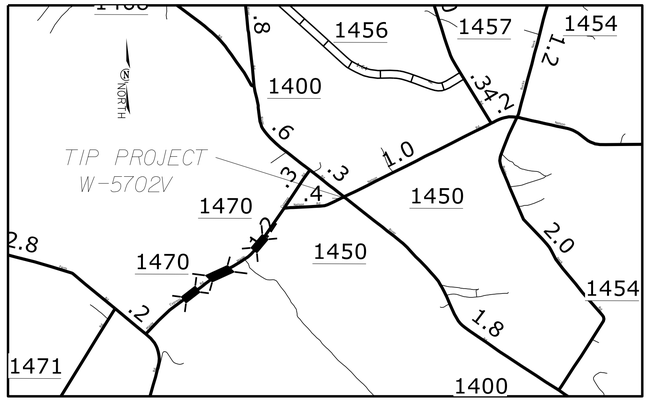
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702V	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44848.1.22	1400014	PE
44848.2.22	1400014	ROW/UTILITY
44848.3.22	1400014	CONST

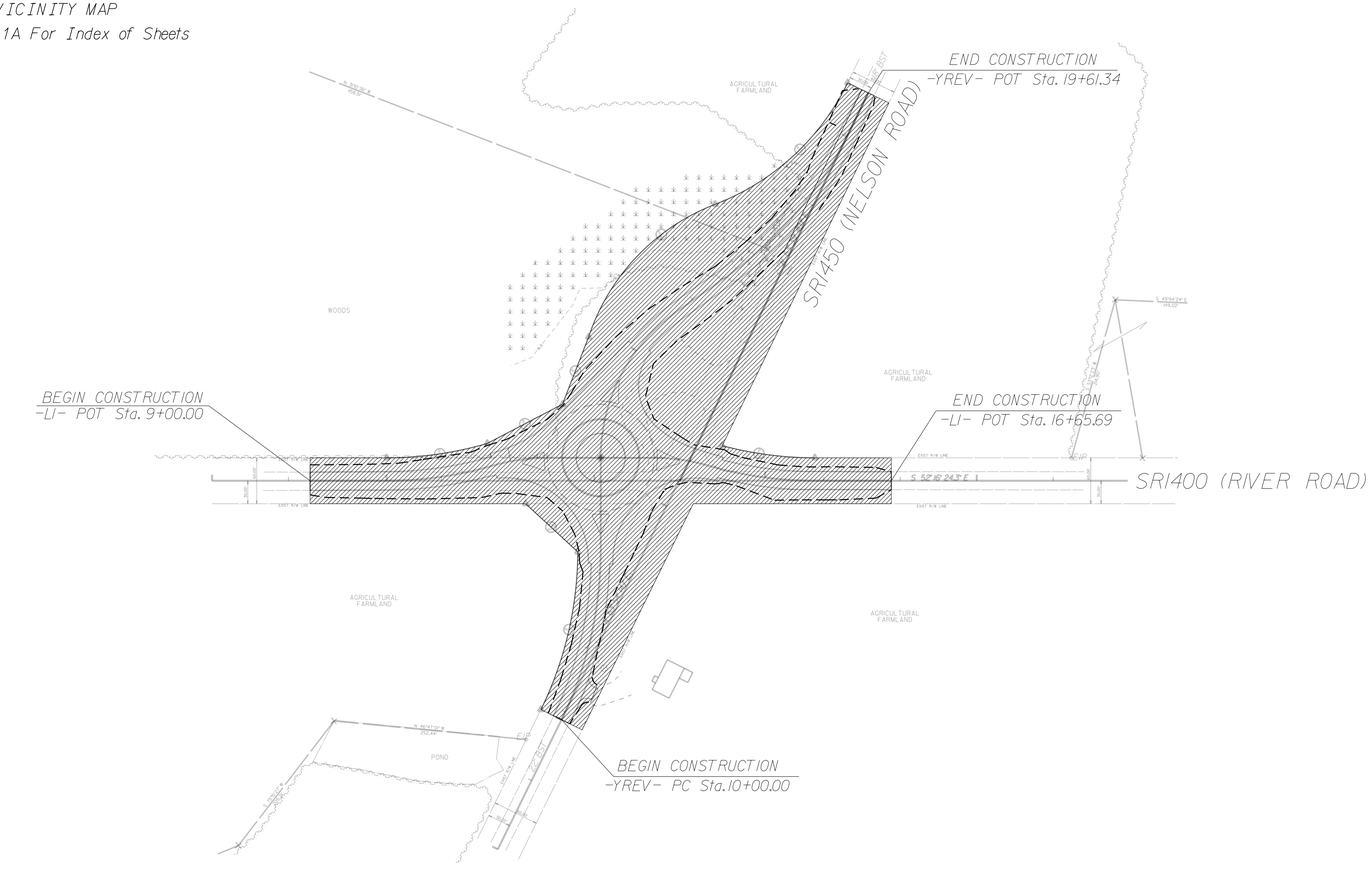
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

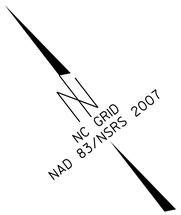
CRAVEN COUNTY

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD)
AT SR 1450 (NELSON ROAD)
NEAR VANCEBORO
TYPE OF WORK: CONSTRUCT RAB ON NEW LOCATION
GRADING,PAVING AND DRAINAGE



VICINITY MAP
See Sheet 1A For Index of Sheets





WORK AREA

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

GRAPHIC SCALES

50 25 0 50 100
PLANS

10 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 1400 = 2017
ADT 2100 = 2032
K = %
D = %
T = % *
V = 45 MPH
* TTST = 3% DUAL 3%
FUNC CLASS = LOCAL
SUB REGIONAL TIER

PROJECT LENGTH

TIP PROJECT W-5702V LENGTH = 0.126 MI

Prepared in the Office of:

DIVISION OF HIGHWAYS

1037 WH SMITH BLVD., GREENVILLE, NC 27835

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 2020

LETTING DATE:
APRIL 2023

HEATHER C. LANE, P.E.
PROJECT ENGINEER

LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

P.E.

SIGNATURE:

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

P.E.

SIGNATURE:

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

19-MAR-2023 19:15
G:\PROJECTS\CRAVEN\W-5702V\W5702V_PSH.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	1A

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
RW-01 - RW-04	SURVEY CONTROL SHEETS
2A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B	ROADWAY DETAILS
3B	ROADWAY SUMMARIES
3P	PARCEL INDEX SHEET
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-7	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
P1	PERMIT DRAWING
EC-1 THRU EC-3	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UC-1 THRU UC-4	UTILITIES CONSTRUCTION PLANS
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-5	CROSS-SECTIONS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

GRADE LINE:
GRADING AND SURFACING:

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

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.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SUBSURFACE PLANS:

SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:
ELECTRIC: DUKE ENGERY
COMMUNICATIONS: CENTURYLINK
WATER: CRAVEN COUNTY WATER AND SEWER

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

RIGHT-OF-WAY MARKERS:

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

EFF. 01-16-2018
REV.

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, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 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

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	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
- 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*)
- U/G Water Line LOS C (S.U.E*)
- U/G Water Line LOS D (S.U.E*)
- 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-5702V

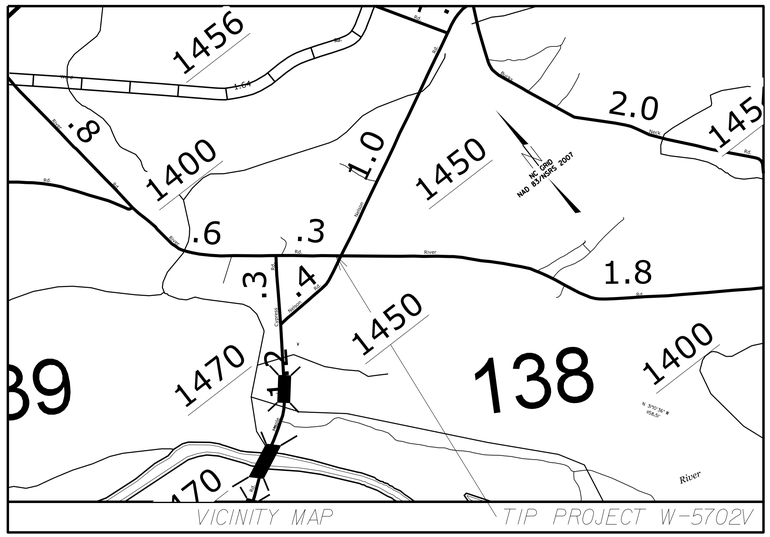
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702V	RW01	6

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

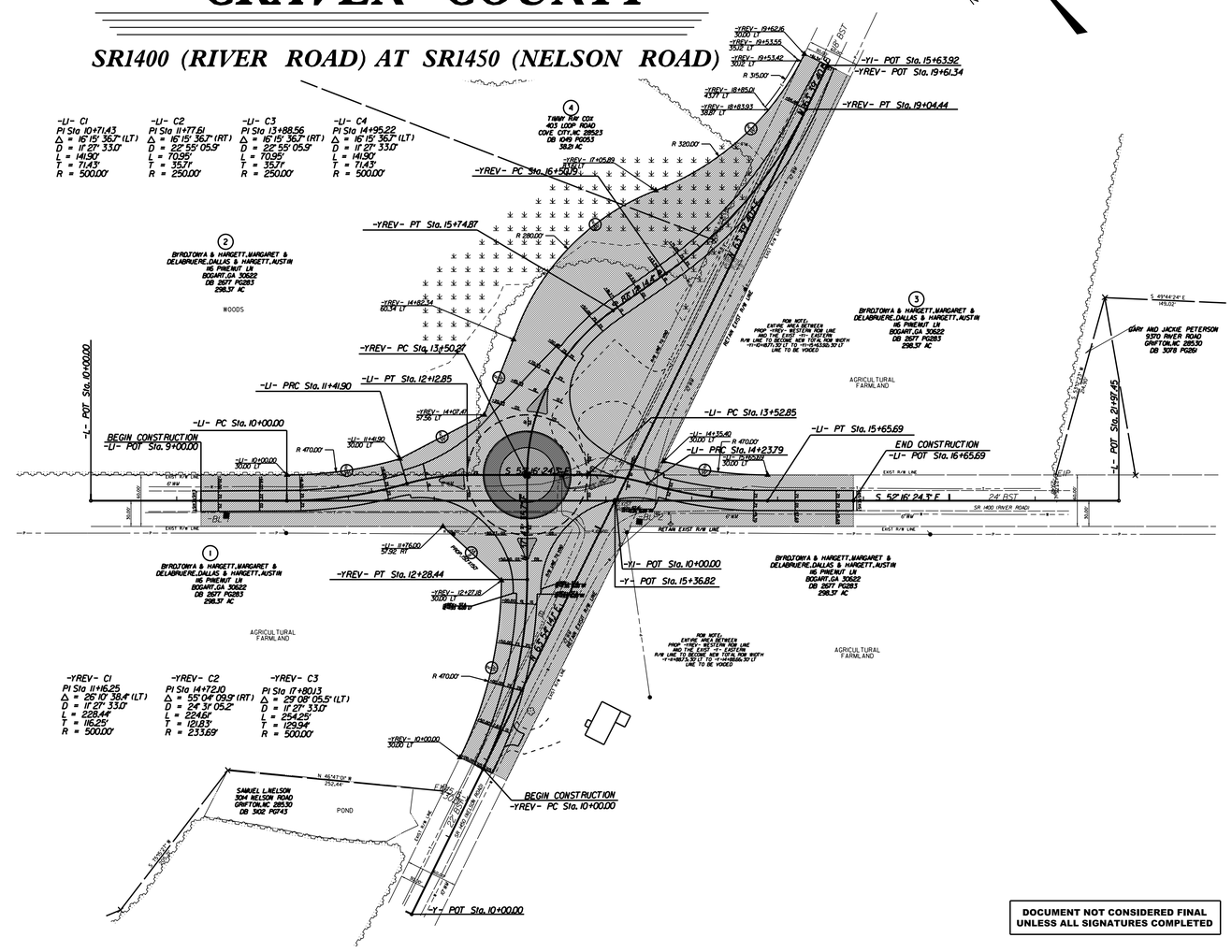
SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

CRAVEN COUNTY

SR1400 (RIVER ROAD) AT SR1450 (NELSON ROAD)



VICINITY MAP TIP PROJECT W-5702V



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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-2"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 575,487.9750(ft) EASTING: 2,510,465.0890(ft)
ELEVATION: 18.596(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.999878137
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"-BL-2" TO -L1- STATION 9+00.00 IS
N 49^32'01" W 511.28(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:
APRIL 2021

LETTING DATE:
APRIL 2023

PROFESSIONAL LAND SURVEYOR

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

SIGNATURE: Date:

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

19-MAR-2023 19:15
G:\PROJECTS\CRAVEN\W-5702V\W5702V_PSH_rw01.dgn
$$$$USERNAME$$$$

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

SURVEY CONTROL SHEET W-5702V

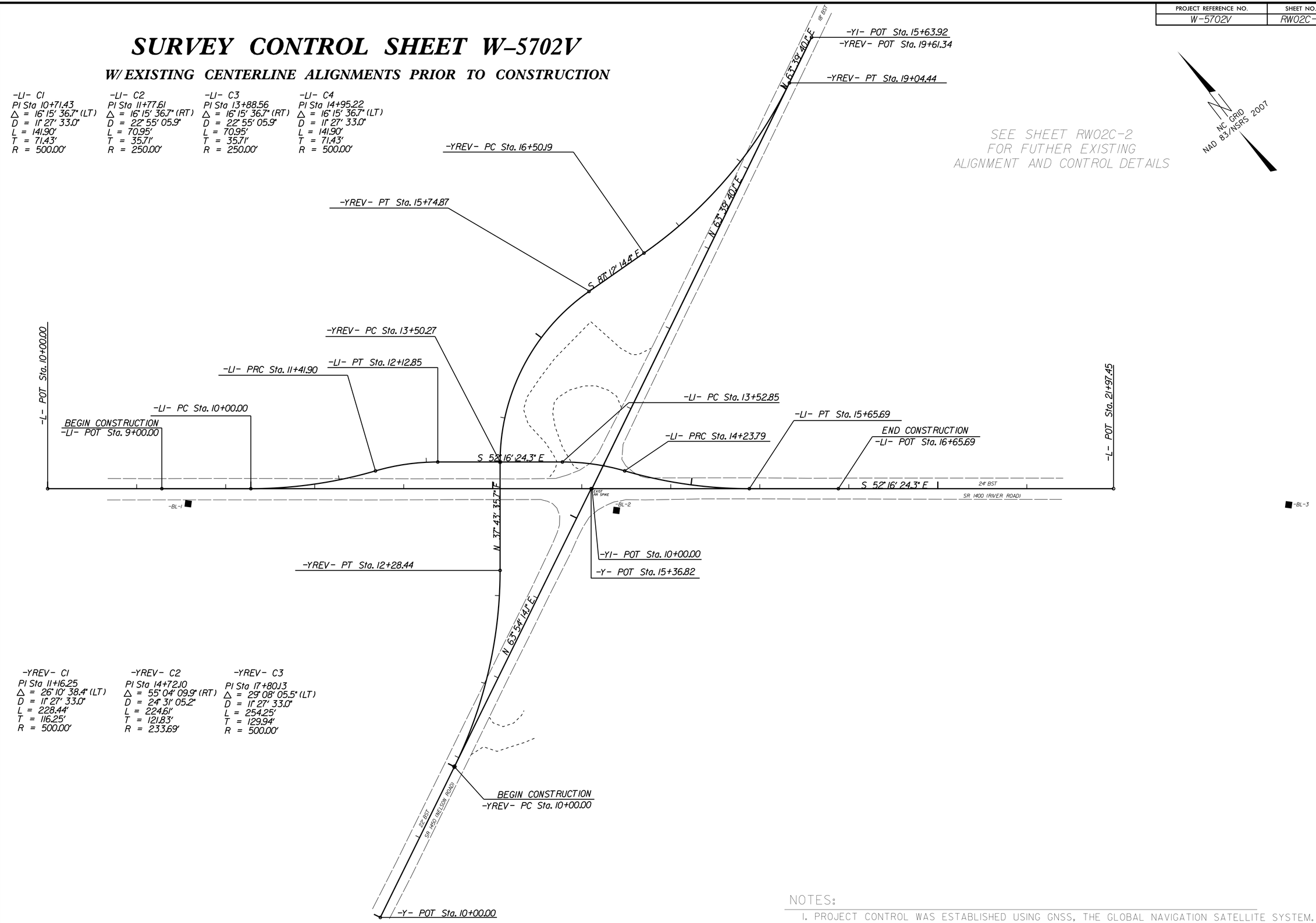
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

-L1- C1
PI Sta 10+71.43
△ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'

-L1- C2
PI Sta 11+77.61
△ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

-L1- C3
PI Sta 13+88.56
△ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

-L1- C4
PI Sta 14+95.22
△ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'



-YREV- C1
PI Sta 11+16.25
△ = 26° 10' 38.4" (LT)
D = 11° 27' 33.0"
L = 228.44'
T = 116.25'
R = 500.00'

-YREV- C2
PI Sta 14+72.10
△ = 55° 04' 09.9" (RT)
D = 24° 31' 05.2"
L = 224.61'
T = 121.83'
R = 233.69'

-YREV- C3
PI Sta 17+80.13
△ = 29° 08' 05.5" (LT)
D = 11° 27' 33.0"
L = 254.25'
T = 129.94'
R = 500.00'

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 13:16
S:\TPD\TIP\STPDEN\W-5702V\W5702V_PSH_rw02c-1.dgn
$$$$USERNAME$$$$

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

SURVEY CONTROL SHEET W-5702V

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE

BL

POINT	DESC.	NORTH	EAST	ELEVATION	BL STATION	OFFSET
1	BL-1	575788.2930	2510089.1640	17.45	5+00.00	0.00
2	BL-2	575487.9750	2510465.0890	18.60	9+81.16	0.00
3	BL-3	575030.8680	2511066.2580	18.05	17+36.37	0.00

EXISITNG ALIGNMENT DESCRIPTION

L

POINT	N	E	BEARING	DIST
POT	575898.289	2509974.652		
LINE			S 52°16'24.3" E	1197.45
POT	575165.578	2510921.761		

Y

POINT	N	E	BEARING	DIST
POT	575288.543	2509975.460		
LINE			N 63°54'14.1" E	536.82
POT	575524.679	2510457.557		

Y1

POINT	N	E	BEARING	DIST
POT	575524.099	2510458.333		
LINE			N 63°39'40.1" E	563.92
POT	575774.300	2510963.712		

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 19:16
C:\WORK\CAD\DRAWEN\W-5702V\W5702V_PSH_rw02c-2.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	RW02D-1

PROPOSED ALIGNMENT CONTROL SHEET W-5702V

L1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	575819.794	2510076.116							
LINE			S 52°16′24.3" E	100.00					
PC	575758.605	2510155.210							
CURVE			S 60°24′12.6" E	141.42	16°15′36.7"(LT)	11°27′33.0"	141.90	71.43	500.00
PCC	575688.758	2510278.179							
CURVE			S 60°24′12.6" E	70.71	16°15′36.7"(RT)	22°55′05.9"	70.95	35.71	250.00
PT	575653.835	2510339.664							
LINE			S 52°16′24.3" E	140.00					
PC	575568.170	2510450.395							
CURVE			S 44°08′35.9" E	70.71	16°15′36.7"(RT)	22°55′05.9"	70.95	35.71	250.00
PCC	575517.428	2510499.642							
CURVE			S 44°08′35.9" E	141.42	16°15′36.7"(LT)	11°27′33.0"	141.90	71.43	500.00
PT	575415.944	2510598.136							
LINE			S 52°16′24.3" E	100.00					
POT	575354.754	2510677.230							

YREV

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	575371.562	2510144.953							
CURVE			N 50°48′54.9" E	226.46	26°10′38.4"(LT)	11°27′33.0"	228.44	116.25	500.00
PT	575514.644	2510320.484							
LINE			N 37°43′35.7" E	127.04					
PC	575615.124	2510398.218							
CURVE			N 65°15′40.7" E	206.82	55°04′09.9"(RT)	25°36′51.1"	215.00	116.62	223.69
PT	575701.672	2510586.053							
LINE			S 87°12′14.4" E	80.53					
PC	575697.744	2510666.491							
CURVE			N 78°13′42.9" E	251.52	29°08′05.5"(LT)	11°27′33.0"	254.25	129.94	500.00
PT	575749.056	2510912.721							
LINE			N 63°39′40.1" E	56.90					
POT	575774.300	2510963.712							

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 19:16
C:\WORKSPACE\DRAWEN\W-5702V\W5702V_PSH_rw02d-1.dgn
$$$$USERNAME$$$$

RIGHT OF WAY CONTROL SHEET W-5702V

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

PROJECT PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-5303 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 4th day of March, 2022.

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

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L1	10+00.00	-30.00	575782.3328	2510173.5663
L1	11+41.90	-30.00	575716.6772	2510289.1576
L1	14+35.40	-30.00	575526.3158	2510530.4262
L1	15+65.69	-30.00	575439.6720	2510616.4925
L1	11+76.00	57.92	575623.6397	2510280.6381

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
YREV	10+00.00	-30.00	575398.5041	2510131.7565
YREV	12+27.18	-30.00	575532.0631	2510296.0282
YREV	14+07.47	-57.56	575696.9629	2510398.3150
YREV	14+82.34	-60.34	575745.5247	2510479.0223
YREV	17+05.89	-83.61	575781.5273	2510716.2496
YREV	19+62.16	-30.00	575801.1853	2510950.4013

NOTES:

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

REVISIONS

8/17/99

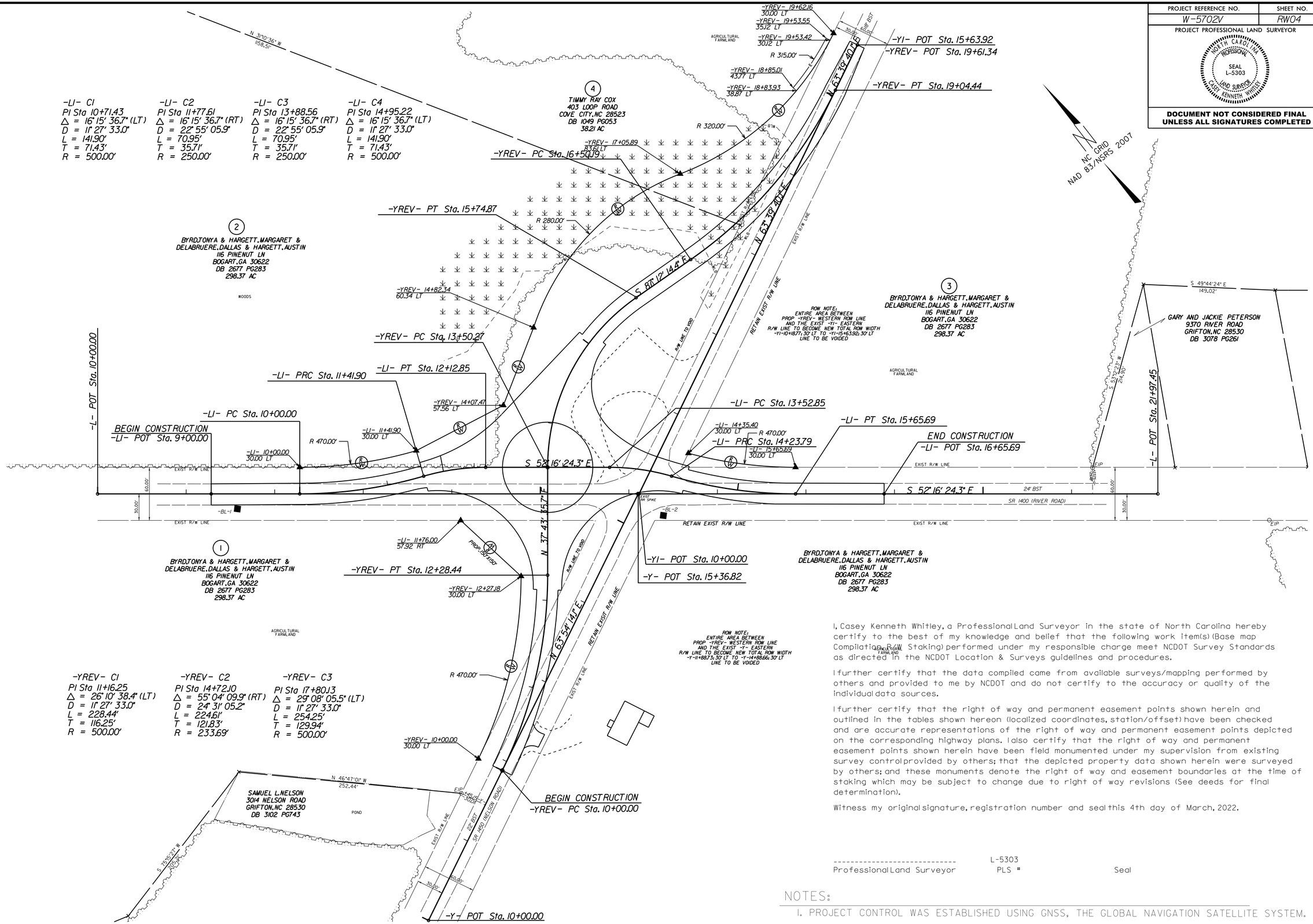
19-MAR-2023 19:16
C:\PROJECTS\W-5702V\DEN\W-5702V\W5702V_PSH_rw03e-1.dgn
$$$$USERNAME$$$$

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

PROJECT PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-5303 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) (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 4th day of March, 2022.

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

Professional Land Surveyor PLS # Seal

NOTES:

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

REVISIONS

8/17/99

19-MAR-2023 13:16
C:\SELECTDOT\CONNECT\WORKSPACES\RALEIGH\W-5702V\W5702V_PSH_rw04.dgn
$$$$USERNAME$$$$

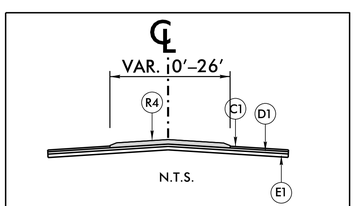
PROJECT REFERENCE NO.	SHEET NO.
W-5702V	2A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

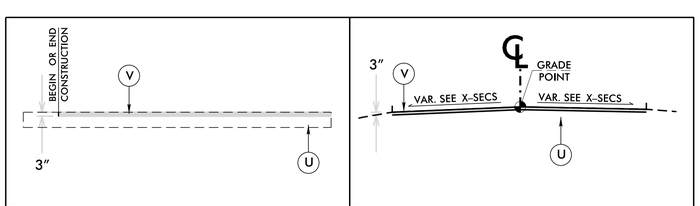
PAVEMENT SCHEDULE

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE. TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J1	PROP. 8" AGGREGATE BASE COURSE.
R1	PROP. 1'-6" CONCRETE CURB AND GUTTER.
R2	PROP. 12" CONCRETE TRUCK APRON.
R3	PROP. 4" CONCRETE APRON.
R4	PROP. 5" CONCRETE MONOLITHIC ISLAND (KEYED IN).
T	EARTH MATERIAL.
U	EXISTING PAVEMENT
V	MILLING ASPHALT PAVEMENT 0" - 3" DEPTH

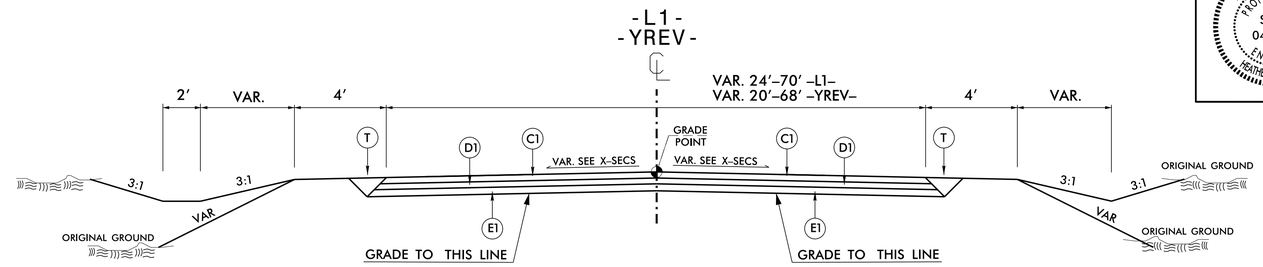
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



MONOLITHIC ISLAND DETAIL
USE WITH TYPICAL SECTION #1

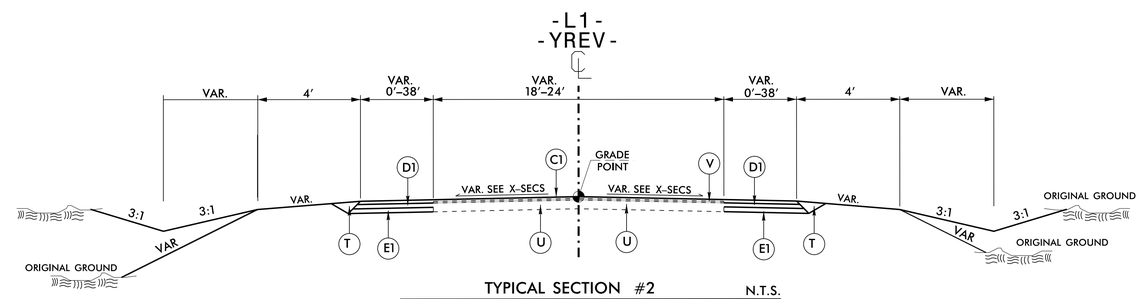


MILLING DETAIL
USE WITH TYPICAL SECTION #2



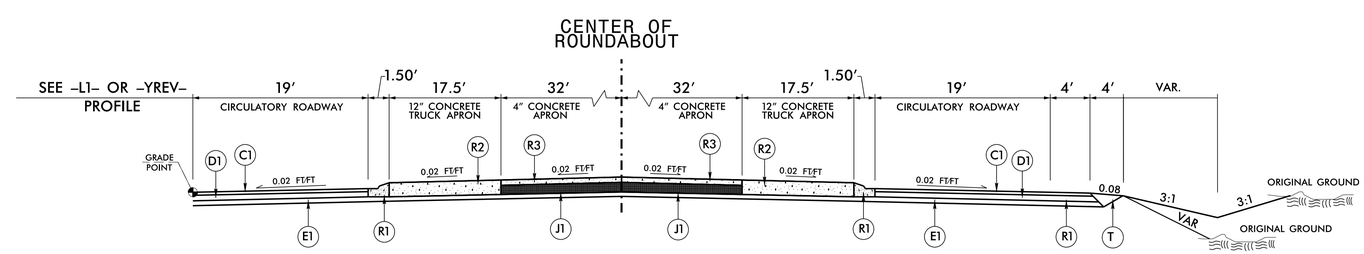
TYPICAL SECTION #1 N.T.S.

-L1- 9+00.00 - 12+12.85
-YREV- 11+50.00 - 12+80.27
-YREV- 14+20.53 - 17+62.12



TYPICAL SECTION #2 N.T.S.

-L1- 13+52.85 - 16+65.69
-YREV- 10+00.00 - 11+50.00
-YREV- 18+64.59 - 19+61.34



TYPICAL SECTION #3 N.T.S.
ROUND-A-BOUT DETAIL

-L1- 12+82.85
-YREV- 13+50.27

6/2/99
19-MAR-2023 19:16
R:\Roadway\Proj\W5702V_PSH2A.dgn
$$$$USERNAME$$$$

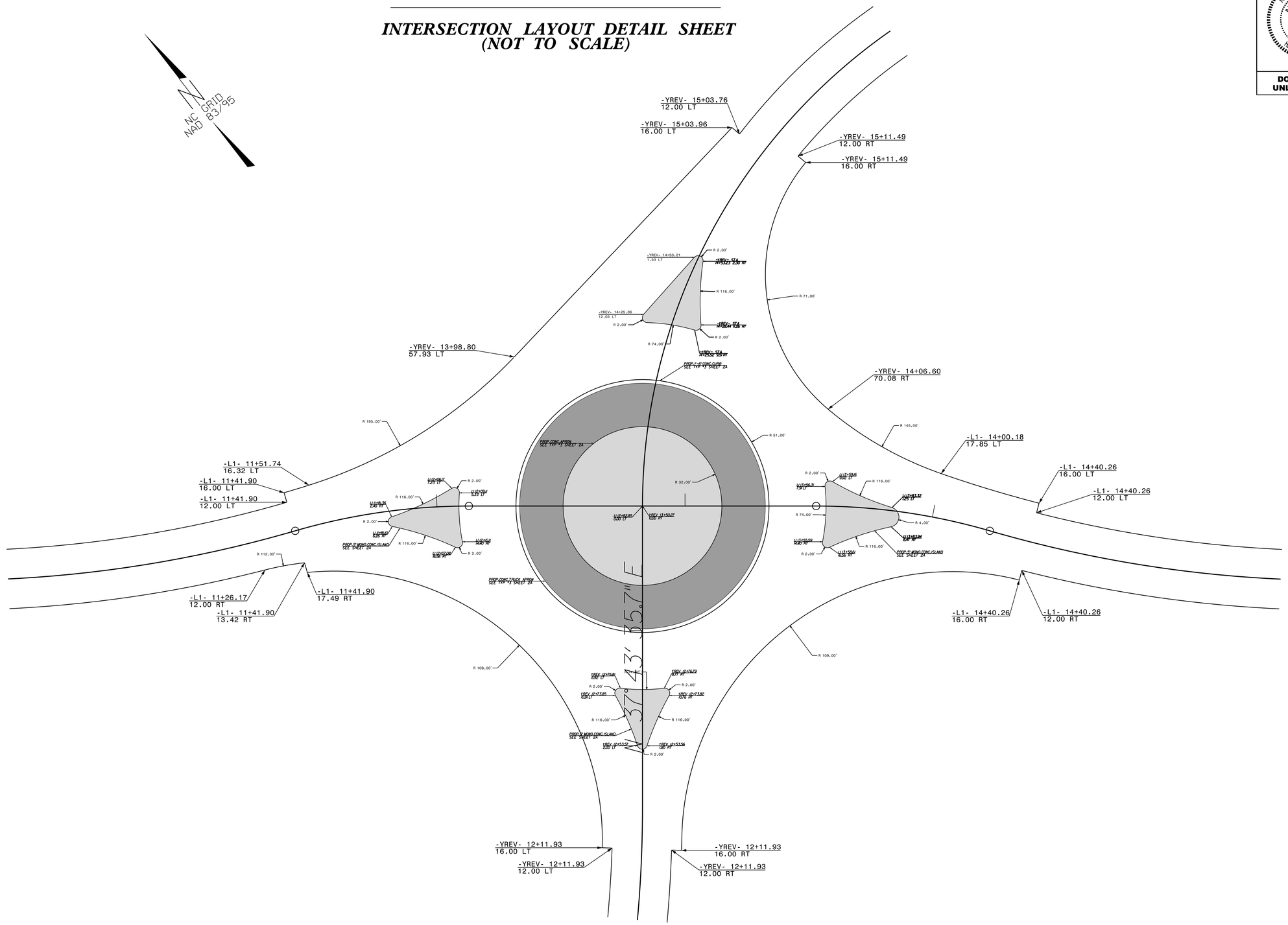
PROJECT REFERENCE NO.	SHEET NO.
W-5702V	2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INTERSECTION LAYOUT DETAIL SHEET
(NOT TO SCALE)



REVISIONS

8/17/99

19-MAR-2023 13:16
S:\STRUCTURES\PROJECT\W-5702V\W5702V_PSH2B.dgn
$$$$USERNAME$$$$

COMPUTED BY: RG DATE:
CHECKED BY: DATE:

PROJECT REFERENCE NO.	SHEET NO.
W5702V	3B

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 / SIZE / THICKNESS OR GAUGE | LOCATION (LT,RT, OR CL) | 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" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE 12" | 15" | 18" | 24" | 36" | 42" | 48" | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE (CLASS IV) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DOT SUPPLIED 95" X 67" CAAP WHEADWALLS | *** 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) R.C.P. | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | QUANTITIES FOR DRAINAGE STRUCTURES LIN. FT. A 5.0' THRU 10.0' | QUANTITIES FOR DRAINAGE STRUCTURES LIN. FT. B 10.0' AND ABOVE | * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') | T.B.J.B. STD. 840.34 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE F | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE 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 |
|---|---|---

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL NUMBER	SHEET NUMBER	PROPERTY OWNER NAMES
1	4	BYRD, TONYA & HARGETT, MARGARET & DELABRUERE, DALLAS & HARGETT AUSTIN
2	4	BYRD, TONYA & HARGETT, MARGARET & DELABRUERE, DALLAS & HARGETT AUSTIN
3	4	BYRD, TONYA & HARGETT, MARGARET & DELABRUERE, DALLAS & HARGETT AUSTIN
4	4	TIMMY RAY COX

5/28/99
19-MAR-2023 19:16
C:\WMOS\CHAVEN\W-5702V\W5702V_PSH3P.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99

-LI- C1
PI Sta 10+71.43
Δ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'

-LI- C2
PI Sta 11+77.61
Δ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

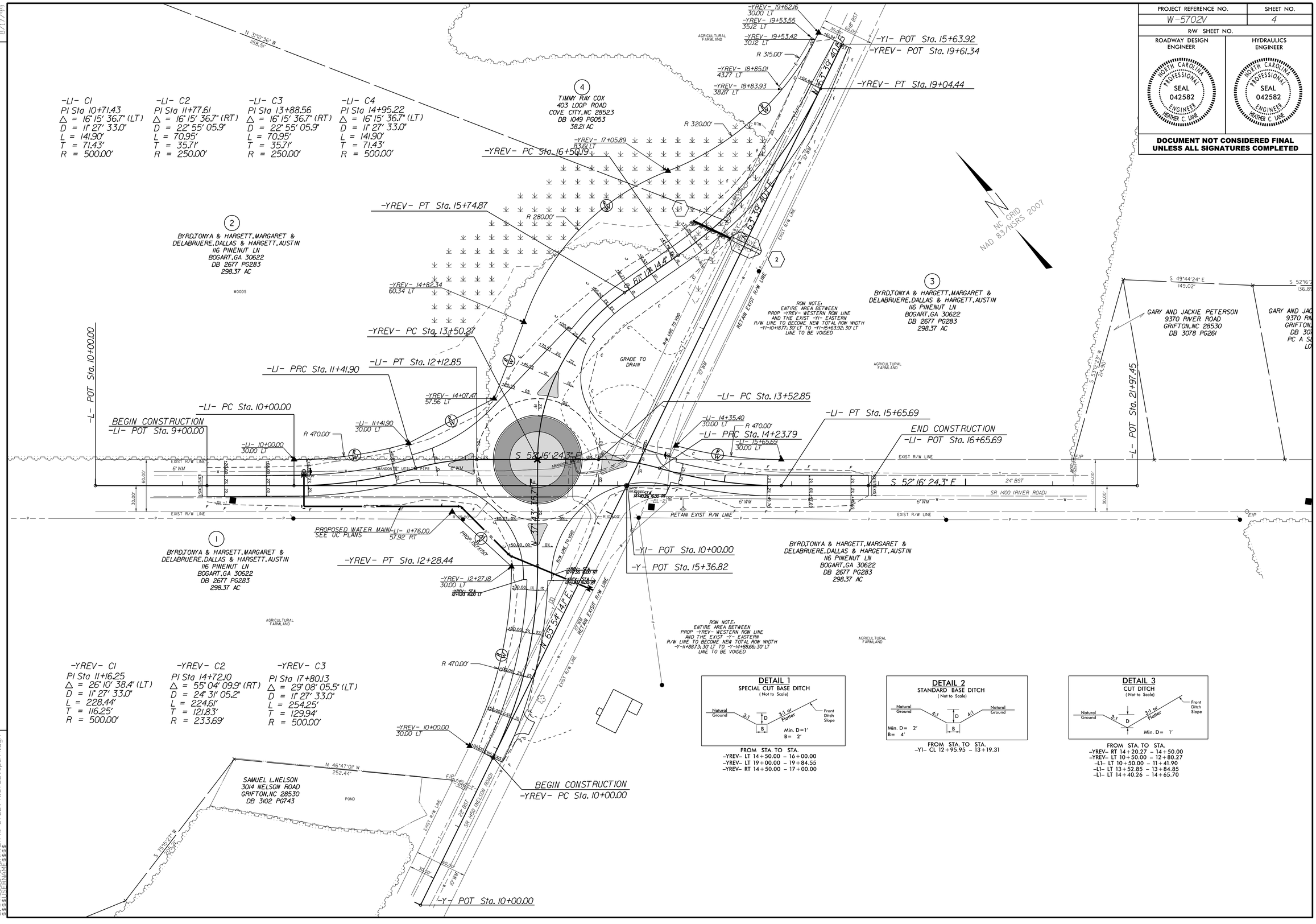
-LI- C3
PI Sta 13+88.56
Δ = 16° 15' 36.7" (RT)
D = 22° 55' 05.9"
L = 70.95'
T = 35.71'
R = 250.00'

-LI- C4
PI Sta 14+95.22
Δ = 16° 15' 36.7" (LT)
D = 11° 27' 33.0"
L = 141.90'
T = 71.43'
R = 500.00'

-YREV- C1
PI Sta 11+16.25
Δ = 26° 10' 38.4" (LT)
D = 11° 27' 33.0"
L = 228.44'
T = 116.25'
R = 500.00'

-YREV- C2
PI Sta 14+72.10
Δ = 55° 04' 09.9" (RT)
D = 24° 31' 05.2"
L = 224.61'
T = 121.83'
R = 233.69'

-YREV- C3
PI Sta 17+80.13
Δ = 29° 08' 05.5" (LT)
D = 11° 27' 33.0"
L = 254.25'
T = 129.94'
R = 500.00'



DETAIL 1
SPECIAL CUT BASE DITCH
(Not to Scale)

FROM STA. TO STA.
-YREV- LT 14+50.00 – 16+00.00
-YREV- LT 19+00.00 – 19+84.55
-YREV- RT 14+50.00 – 17+00.00

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)

FROM STA. TO STA.
-Y1- CL 12+95.95 – 13+19.31

DETAIL 3
CUT DITCH
(Not to Scale)

FROM STA. TO STA.
-YREV- RT 14+20.27 – 14+50.00
-YREV- LT 10+50.00 – 12+80.27
-L1- LT 10+50.00 – 11+41.90
-L1- LT 13+52.85 – 13+84.85
-L1- LT 14+40.26 – 14+65.70

20-MAR-2023 08:40
R:\Roadway\Proj\W5702V_NW\W-5702V\W5702V_psh4.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	5

ROADWAY DESIGN ENGINEER

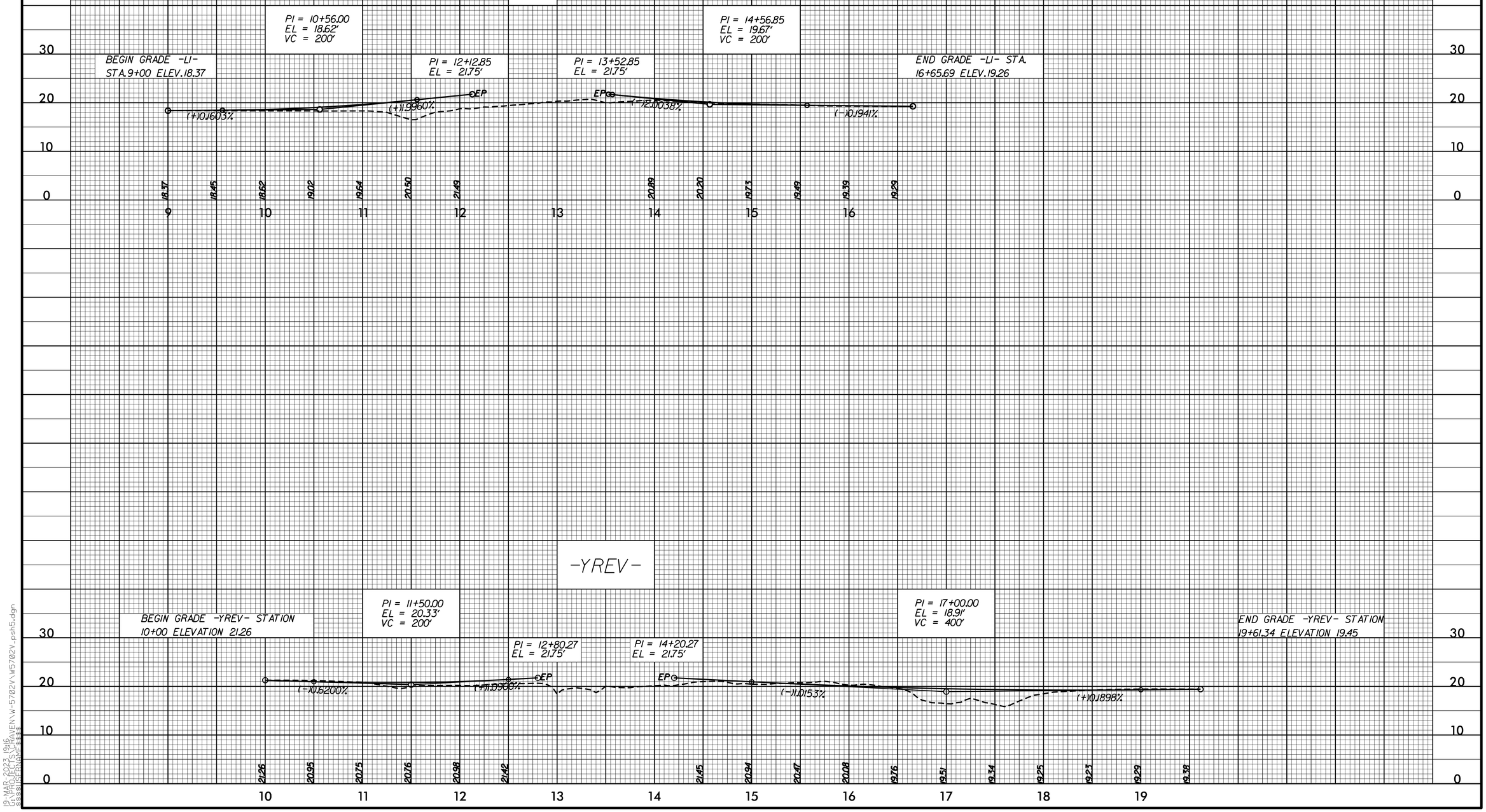
NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-LI-



-YREV-

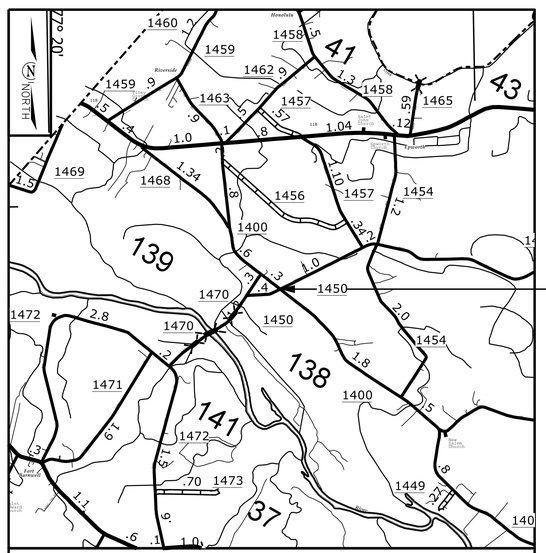
5/14/99

19-MAR-2023 19:16
C:\WMOdot\Projects\RAVEN\W-5702V\W5702V_psh5.dgn
$$$$USER$$$$

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CRAVEN COUNTY



VICINITY MAP

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD)
AT SR 1450 (NELSON ROAD)
NEAR VANCEBORO
TYPE OF WORK: CONSTRUCT RAB ON NEW LOCATION
GRADING,PAVING AND DRAINAGE

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	PROJECT PHASING
TMP-3	PHASE I DETOUR
TMP-4	PHASE I
TMP-5	PHASE II
TMP-6	PHASE III
TMP-7	PHASE IV

SHEET NO.
TMP-1

W-5702V

TIP PROJECT:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED:

DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

PLANS PREPARED BY:

NCDOT DIV2 DDC UNIT

1037 W.H. SMITH BLVD.
GREENVILLE, NC 27858

NCDOT CONTACTS:

HEATHER C. LANE P.E.
PROJECT ENGINEER

LANG JONES
PROJECT DESIGN ENGINEER

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

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP1.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-1A

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- PAVEMENT REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM — SKINNY DRUM — TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

APPROVED: _____

DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LINE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

ROADWAY STANDARD DRAWINGS & LEGEND

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP1A.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP -1B

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 STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
RIVER ROAD	N/A	N/A
NELSON ROAD	N/A	N/A

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 BARRIER

K) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

L) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

M) INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH OR HIGHER	30 FT

TRAFFIC CONTROL DEVICES

N) 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.

O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS

P) INSTALL TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
RIVER ROAD	THEROMPLASTIC	NONE
NELSON ROAD	THEROMPLASTIC	NONE

Q) 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.

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

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

MISCELLANEOUS

T) 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.

LOCAL NOTES

LOCAL NOTES:

1) **EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.**
2) **NOTIFY THE FIRE DEPT, E.M.S., AND CRAVEN COUNTY SCHOOL BOARD 30 DAYS PRIOR TO ROAD CLOSURE.**
3) **LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES WILL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.**

APPROVED:_____ DATE:_____

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)

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMPIB.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-2

PROJECT PHASING

PHASE I

STEP 1: - ERECT WORK ZONE ADVANCED WARNING SIGNS USING DETAIL DRAWINGS FOR WORK ZONE SIGNS USING ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 3 OF 3.

STEP 2: - PUT OFFSITE DETOUR IN PLACE (SEE SHEET TMP-3)

STEP 3: - INSTALL EROSION CONTROL PER PLANS. (SEE EC SHEETS)

STEP 4: - REMOVE EXISTING ASPHALT -L1- STATION 9+00.00 TO 13+52.79. (SEE SHEET TMP-4)

STEP 5: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, INSTALL WATER MAIN RELOCATION. (SEE UC SHEETS)

STEP 6: - COMPLETE CLEARING AND GRUBBING, UNDERCUT AND EARTHWORK AS SHOWN. (SEE SHEET TMP-4)

STEP 7: - INSTALL STRUCTURE #1. (SEE SHEET 4)

STEP 8: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, PLACE ALL B25.0C (AND I19.0C NEXT TO EXISTING TRAVELWAYS ONLY) TO AVOID DROPOFFS. (SEE SHEET TMP4)

PHASE II

STEP 1: - PLACE 1′-6″ CONCRETE CURB AND GUTTER (SEE SHEET TMP-5)

STEP 2: - PLACE THE REMAINING I19.0C (SEE SHEET TMP-5)

STEP 3: - POUR THE CONCRETE TRUCK APRON.(SEE SHEET TMP-5)

STEP 4: - PLACE AGGREGATE BASE COURSE INSIDE OF CONCRETE TRUCK APRON. (SEE SHEET TMP-5)

STEP 5: - POUR THE 4″ CONCRETE COVER. (SEE SHEET TMP-5)

STEP 6: - BRING EXISTING SHOULDERS UP TO GRADE WHERE POSSIBLE TO AVOID DROPOFFS.

PHASE III

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE FIRST LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-6)
-YREV- 12+19.11 - 17+21.40
-L1- 9+00.00 - 14+40.00

STEP 2: - PLACE THE PROPOSED 5″ MONOLITHIC CONCRETE ISLANDS. (SEE PSH-2B)

STEP 3: - TIE IN PAVEMENT AS NEEDED TO MAINTAIN TRAFFIC IN DETOUR. (SEE SHEET TMP-6)

STEP 4: - MILL THE PROPOSED TIE IN AS SHOWN. (SEE SHEET TMP-6)

STEP 5: - COMPLETE THE FIRST LAYER OF S9.5B SURFACE COURSE. (SEE SHEET TMP-6)

PHASE IV

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE THE FINAL LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-7)

STEP 2: - COMPLETE SIGNING. (SEE SIGNING PLANS)

STEP 3: - COMPLETE PAVEMENT MARKING. (SEE PAVEMENT MARKING PLANS)

STEP 4: - REMOVE DETOUR AND PUT TRAFFIC IN THE FINAL PATTERN.

STEP 5: - REMOVE EXISTING ASPHALT. (SEE SHEET TMP-7)

STEP 6: - COMPLETE STRUCTURE #2. (SEE SHEET TMP-7)

STEP 7: - COMPLETE EARTHWORK, GRADING AND EROSION CONTROL.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASING

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP2.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-4

PHASE I

STEP 1: - ERECT WORK ZONE ADVANCED WARNING SIGNS USING DETAIL DRAWINGS FOR WORK ZONE SIGNS USING ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 3 OF 3.

STEP 2: - PUT OFFSITE DETOUR IN PLACE (SEE SHEET TMP-3)

STEP 3: - INSTALL EROSION CONTROL PER PLANS. (SEE EC SHEETS)

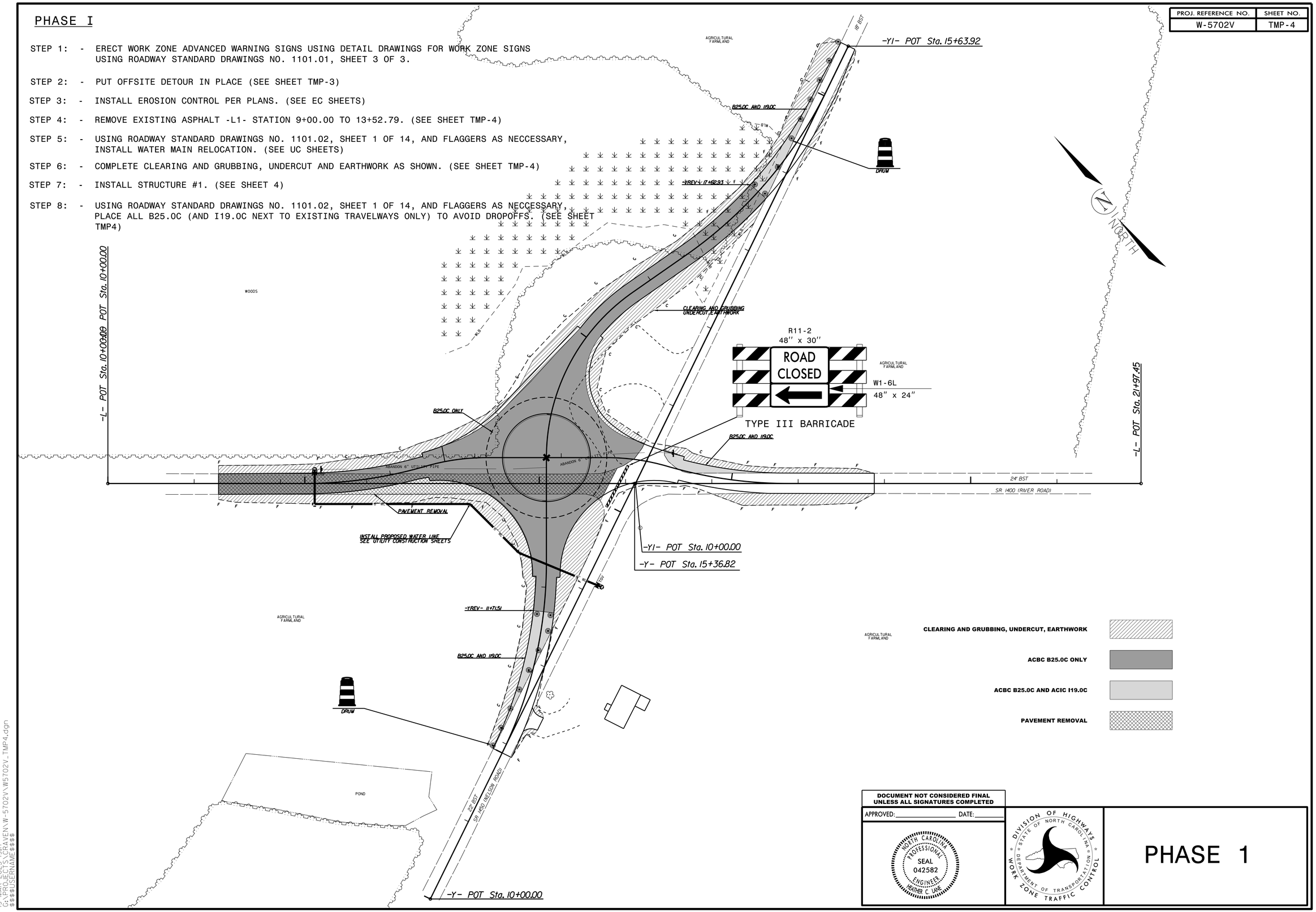
STEP 4: - REMOVE EXISTING ASPHALT -L1- STATION 9+00.00 TO 13+52.79. (SEE SHEET TMP-4)

STEP 5: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, INSTALL WATER MAIN RELOCATION. (SEE UC SHEETS)

STEP 6: - COMPLETE CLEARING AND GRUBBING, UNDERCUT AND EARTHWORK AS SHOWN. (SEE SHEET TMP-4)

STEP 7: - INSTALL STRUCTURE #1. (SEE SHEET 4)

STEP 8: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, PLACE ALL B25.0C (AND I19.0C NEXT TO EXISTING TRAVELWAYS ONLY) TO AVOID DROPOFFS. (SEE SHEET TMP4)



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LUKE

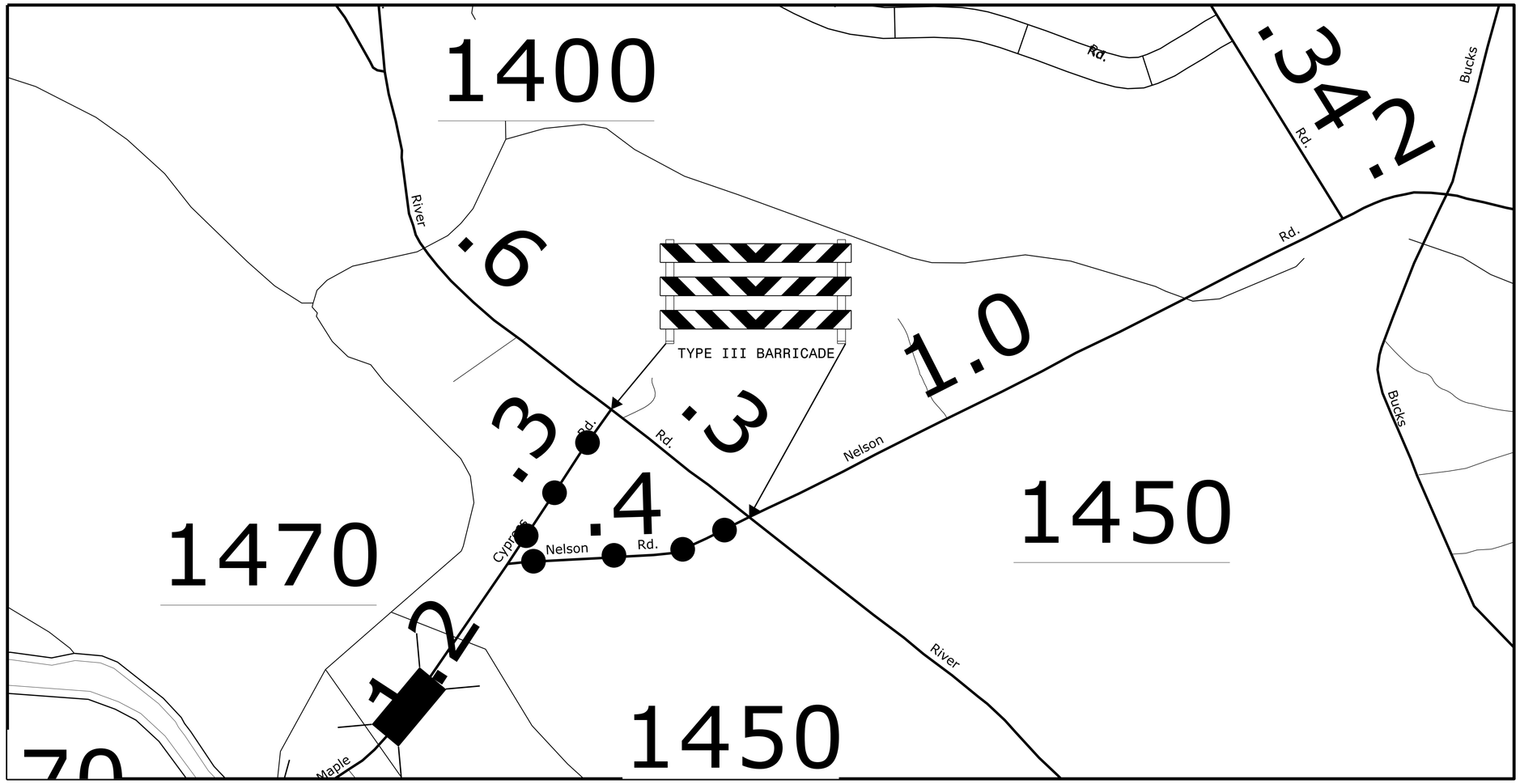
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE 1

19-MAR-2023 19:17
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP4.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-3

PHASE 1 DETOUR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASE 1 DETOUR

19-MAR-2023 19:18
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP3.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-5

PHASE II

STEP 1: - PLACE 1'-6" CONCRETE CURB AND GUTTER (SEE SHEET TMP-5)

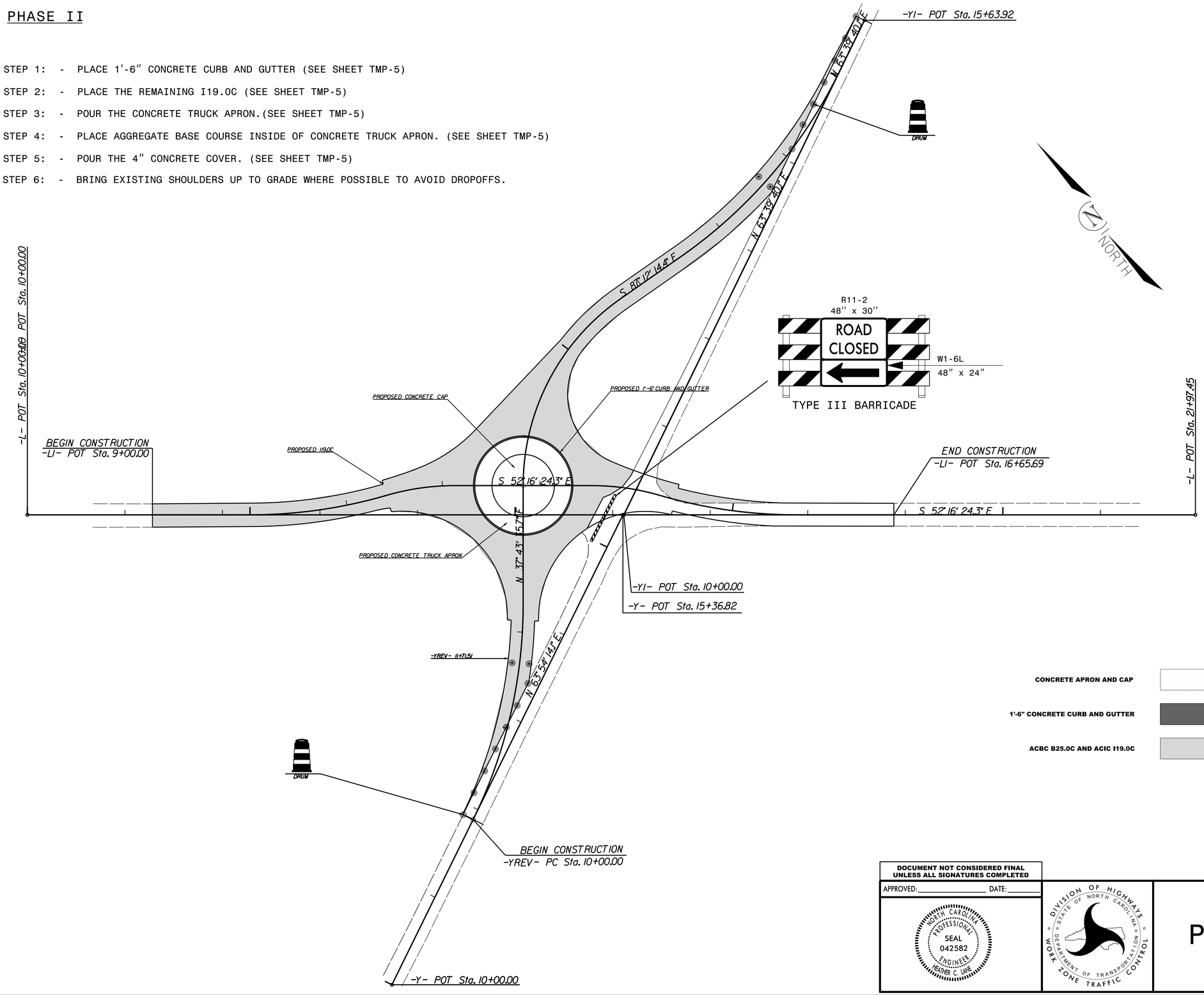
STEP 2: - PLACE THE REMAINING I19.0C (SEE SHEET TMP-5)

STEP 3: - POUR THE CONCRETE TRUCK APRON.(SEE SHEET TMP-5)

STEP 4: - PLACE AGGREGATE BASE COURSE INSIDE OF CONCRETE TRUCK APRON. (SEE SHEET TMP-5)

STEP 5: - POUR THE 4" CONCRETE COVER. (SEE SHEET TMP-5)

STEP 6: - BRING EXISTING SHOULDERS UP TO GRADE WHERE POSSIBLE TO AVOID DROPOFFS.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASE II

19-MAR-2023 9:18
C:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP5.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-6

PHASE III

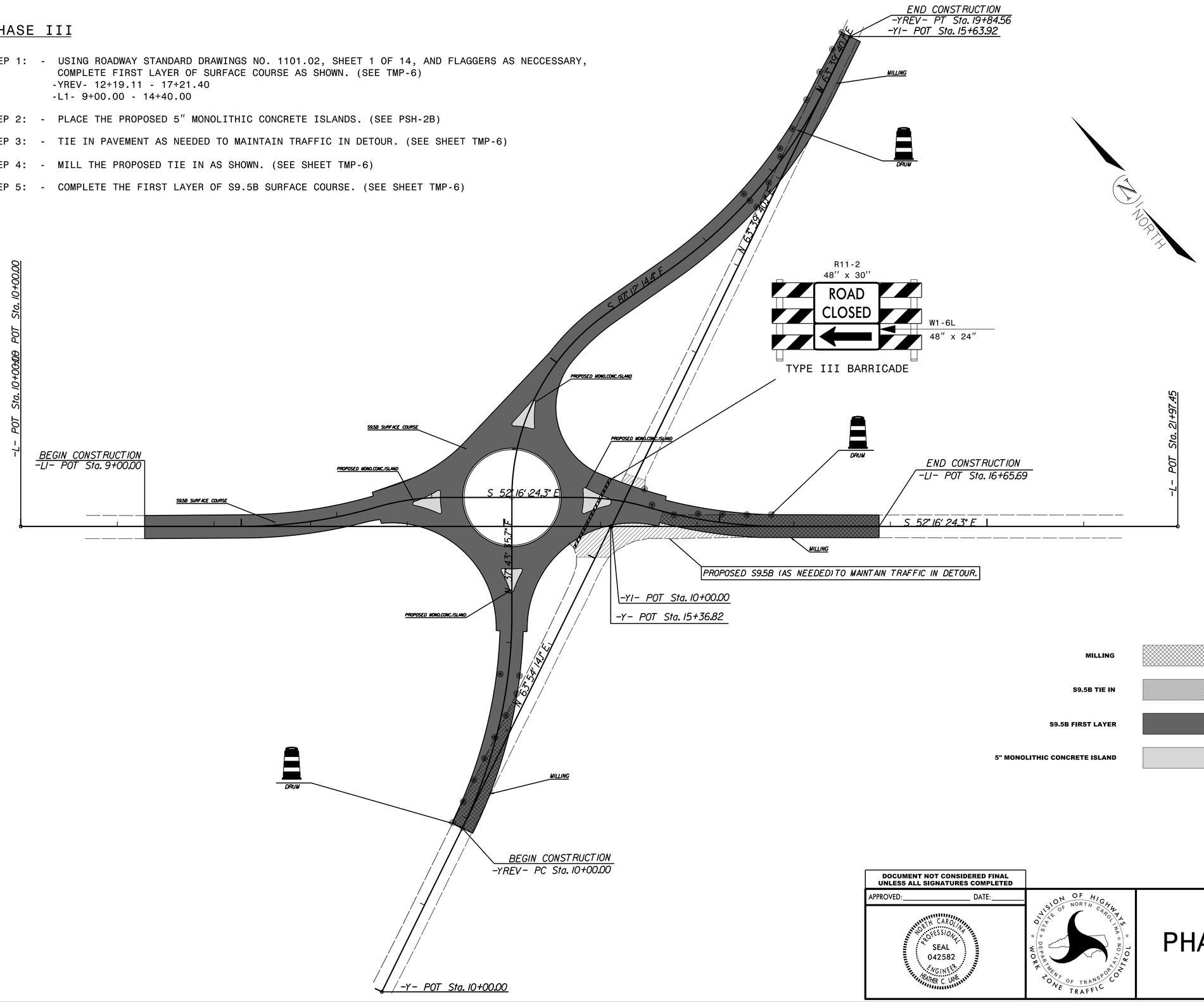
STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE FIRST LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-6)
-YREV- 12+19.11 - 17+21.40
-L1- 9+00.00 - 14+40.00

STEP 2: - PLACE THE PROPOSED 5" MONOLITHIC CONCRETE ISLANDS. (SEE PSH-2B)

STEP 3: - TIE IN PAVEMENT AS NEEDED TO MAINTAIN TRAFFIC IN DETOUR. (SEE SHEET TMP-6)

STEP 4: - MILL THE PROPOSED TIE IN AS SHOWN. (SEE SHEET TMP-6)

STEP 5: - COMPLETE THE FIRST LAYER OF S9.5B SURFACE COURSE. (SEE SHEET TMP-6)



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

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

PHASE III

19-MAR-2023 9:18
C:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP6.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	TMP-7

PHASE IV

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECCESSARY, COMPLETE THE FINAL LAYER OF SURFACE COURSE AS SHOWN. (SEE TMP-7)

STEP 2: - COMPLETE SIGNING. (SEE SIGNING PLANS)

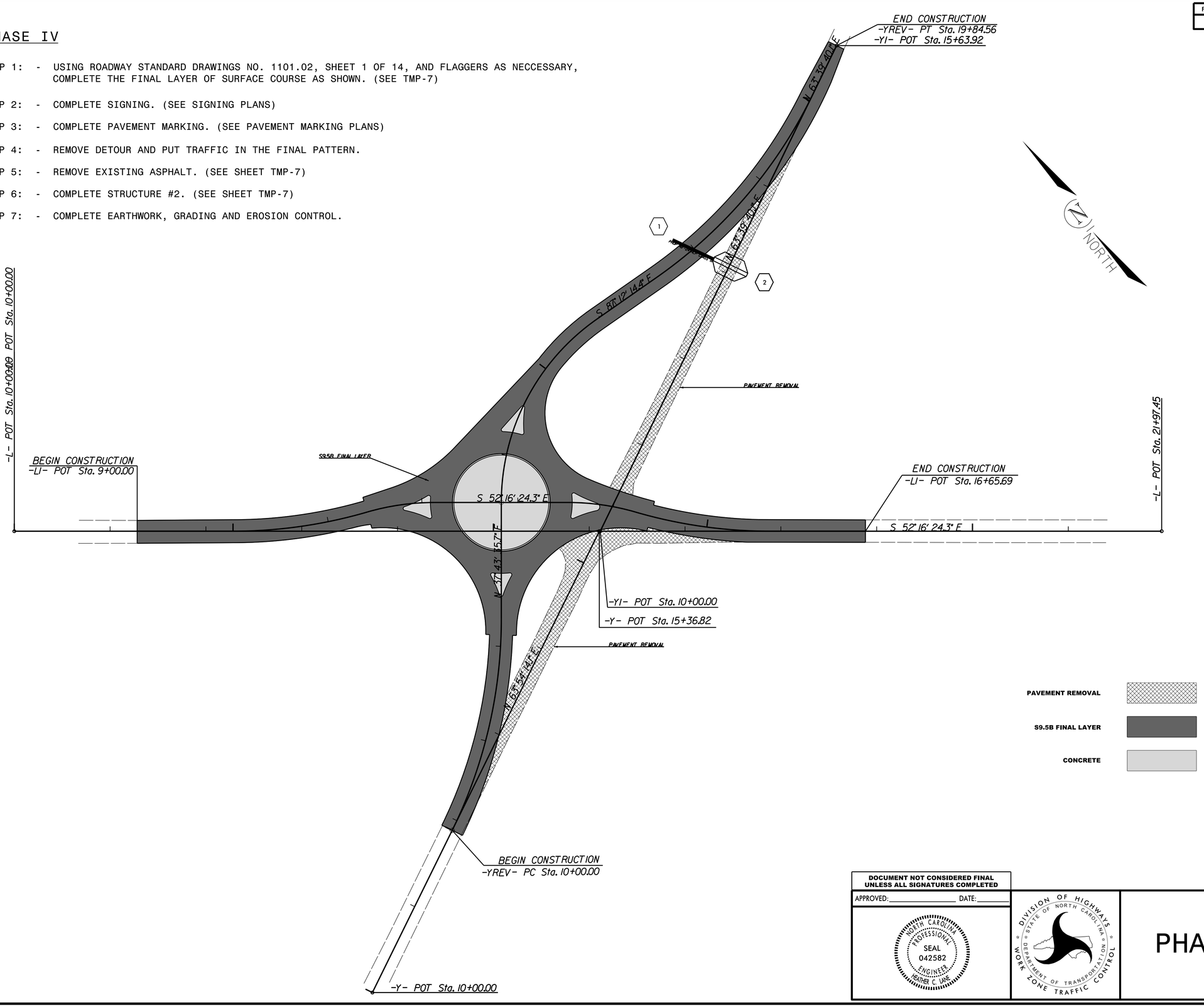
STEP 3: - COMPLETE PAVEMENT MARKING. (SEE PAVEMENT MARKING PLANS)

STEP 4: - REMOVE DETOUR AND PUT TRAFFIC IN THE FINAL PATTERN.

STEP 5: - REMOVE EXISTING ASPHALT. (SEE SHEET TMP-7)

STEP 6: - COMPLETE STRUCTURE #2. (SEE SHEET TMP-7)

STEP 7: - COMPLETE EARTHWORK, GRADING AND EROSION CONTROL.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C LANE

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

PHASE IV

19-MAR-2023 19:18
G:\PROJECTS\CRAVEN\W-5702V\W5702V_TMP7.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	PMP1

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN
CRAVEN COUNTY

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD)
AT SR 1450 (NELSON ROAD)
NEAR VANCEBORO

2018 ROADWAY ENGLISH STANDARD DRAWING

EFF. 01-16-2018
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" - PROJECT SERVICES UNIT N. C. Department of Transportation - Raleigh, N. C. Dated January, 2018 are applicable to this project and by reference hereby are CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE & MULTI LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS

GENERAL NOTES

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

A) INSTALL THERMOPLASTIC PAVEMENT MARKINGS ON THE FINAL SURFACE FOR ALL ROADWAYS.
B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

INDEX OF SHEETS

SHEET #	DESCRIPTION
PM-1	PAVEMENT MARKING PLAN TITLE SHEET
PM-2	PAVEMENT MARKING DETAIL AND SCHEDULE

REVISIONS

8/17/99

19-MAR-2023 19:18
S:\TPB\PROJECTS\W-5702V\EN\W-5702V_psh_pmp1.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	PMP2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

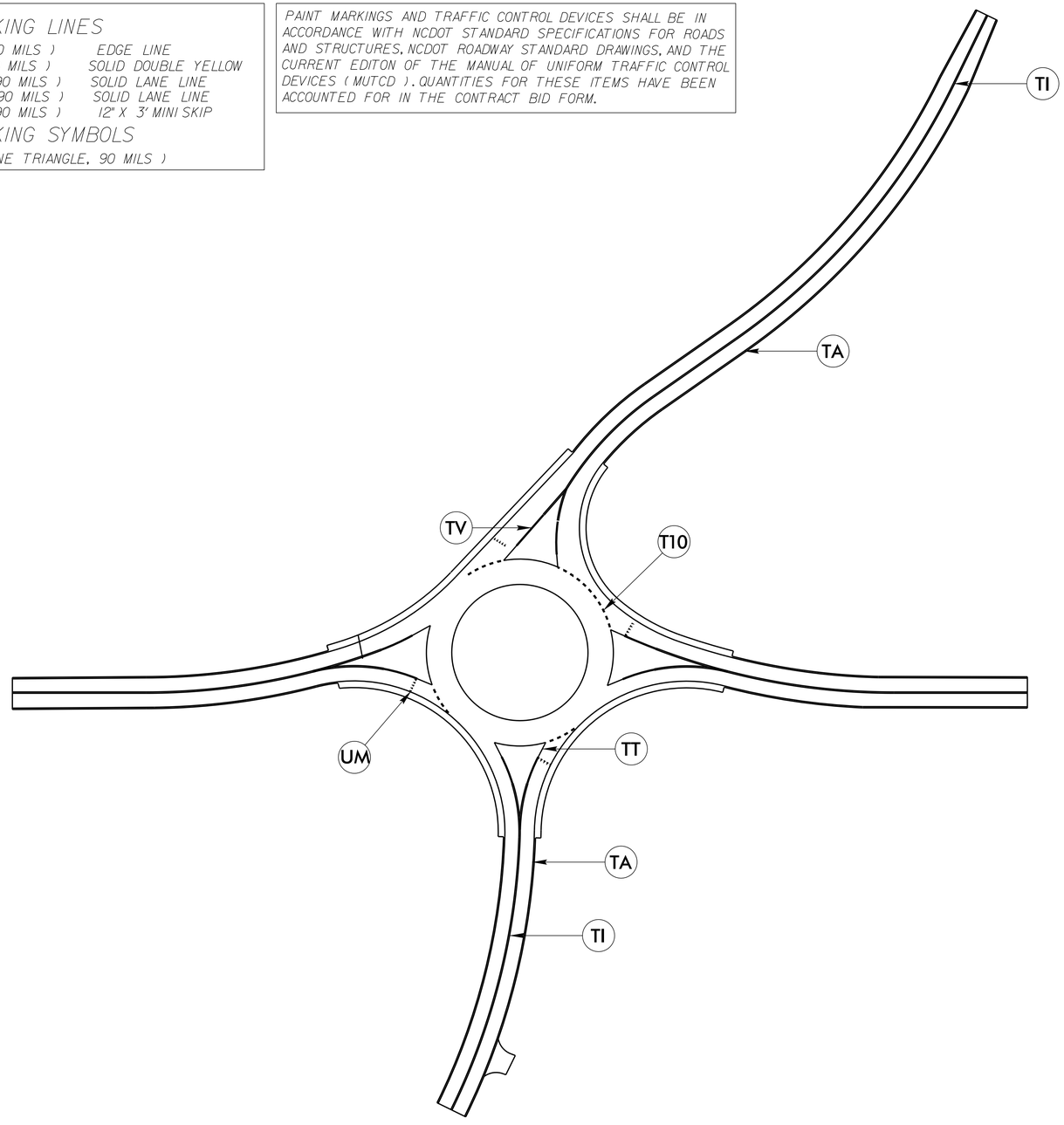
TA - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGE LINE
TI - THERMOPLASTIC (4" YELLOW, 90 MILS)	SOLID DOUBLE YELLOW
TT - THERMOPLASTIC (12" WHITE, 90 MILS)	SOLID LANE LINE
TV - THERMOPLASTIC (12" YELLOW, 90 MILS)	SOLID LANE LINE
T10 - THERMOPLASTIC (12" WHITE, 90 MILS)	12" X 3' MINI SKIP

PAVEMENT MARKING SYMBOLS

UM - THERMOPLASTIC (12" YIELD LINE TRIANGLE, 90 MILS)

NOTES

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

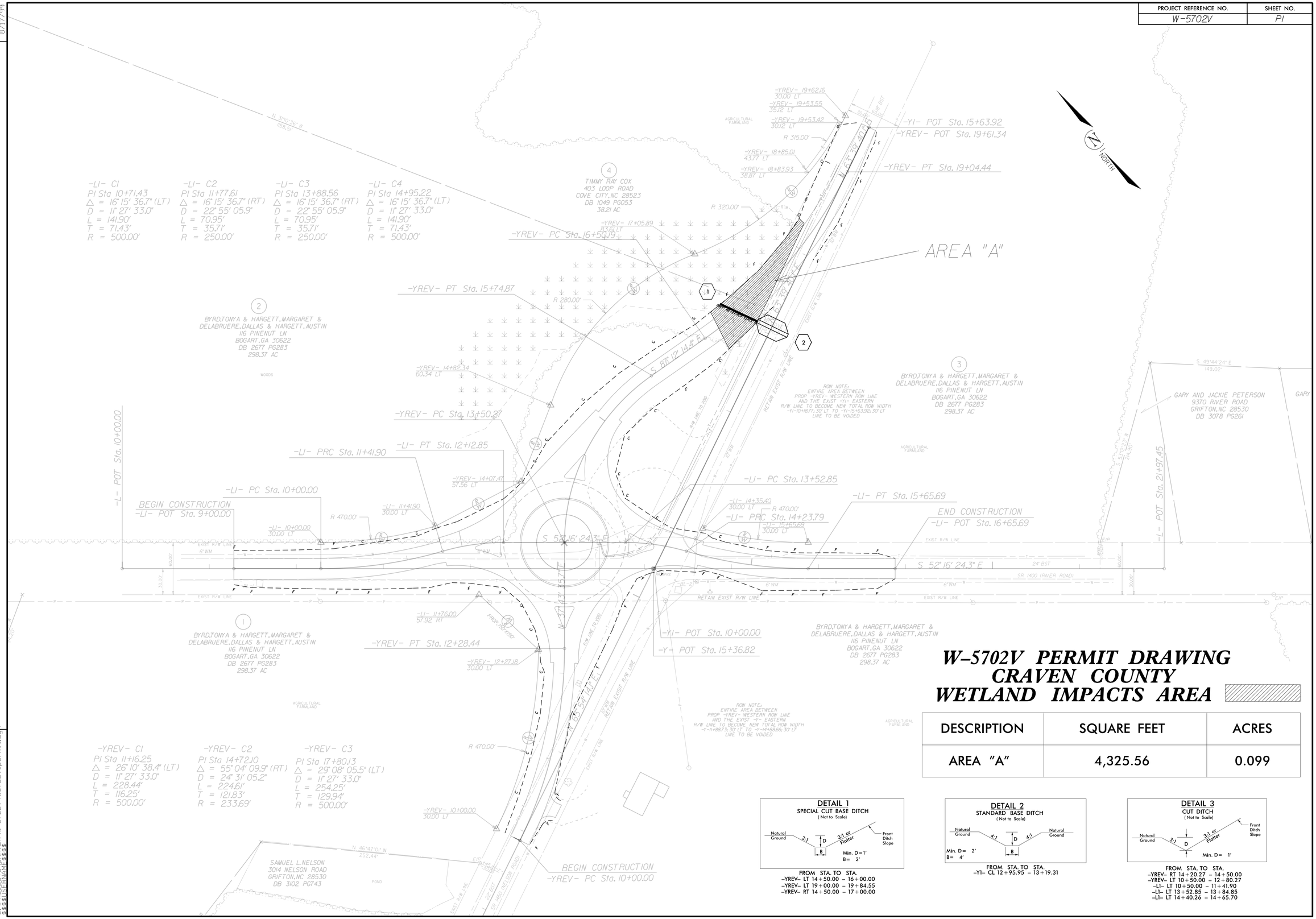


REVISIONS

8/17/99

19-MAR-2023 13:18
C:\PROJECTS\DIVEN\W-5702V\W5702V_psh_pmp2.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	P1



W-5702V PERMIT DRAWING
CRAVEN COUNTY
WETLAND IMPACTS AREA

DESCRIPTION	SQUARE FEET	ACRES
AREA "A"	4,325.56	0.099

DETAIL 1
SPECIAL CUT BASE DITCH
(Not to Scale)

FROM STA. TO STA.
-YREV- LT 14+50.00 – 16+00.00
-YREV- LT 19+00.00 – 19+84.55
-YREV- RT 14+50.00 – 17+00.00

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)

FROM STA. TO STA.
-Y1- CL 12+95.95 – 13+19.31

DETAIL 3
CUT DITCH
(Not to Scale)

FROM STA. TO STA.
-YREV- RT 14+20.27 – 14+50.00
-YREV- LT 10+50.00 – 12+80.27
-L1- LT 10+50.00 – 11+41.90
-L1- LT 13+52.85 – 13+84.85
-L1- LT 14+40.26 – 14+65.70

REVISIONS

8/17/99

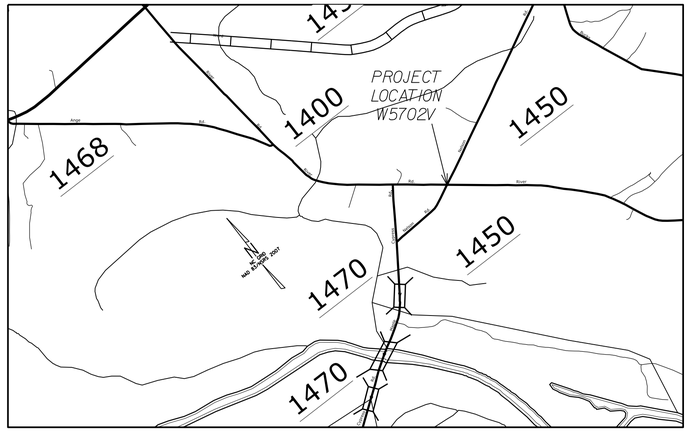
19-MAR-2023 13:18
C:\SIGNERNAME\SS\W-5702V\W5702V_permit.dgn
$$$$USERNAME$$$$

09/08/99

TIP PROJECT: W5702V

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W5702V	EC1	2

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44848.1.22	1400014	PE
44848.2.22	1400014	RW
44848.3.22	1400014	CONST

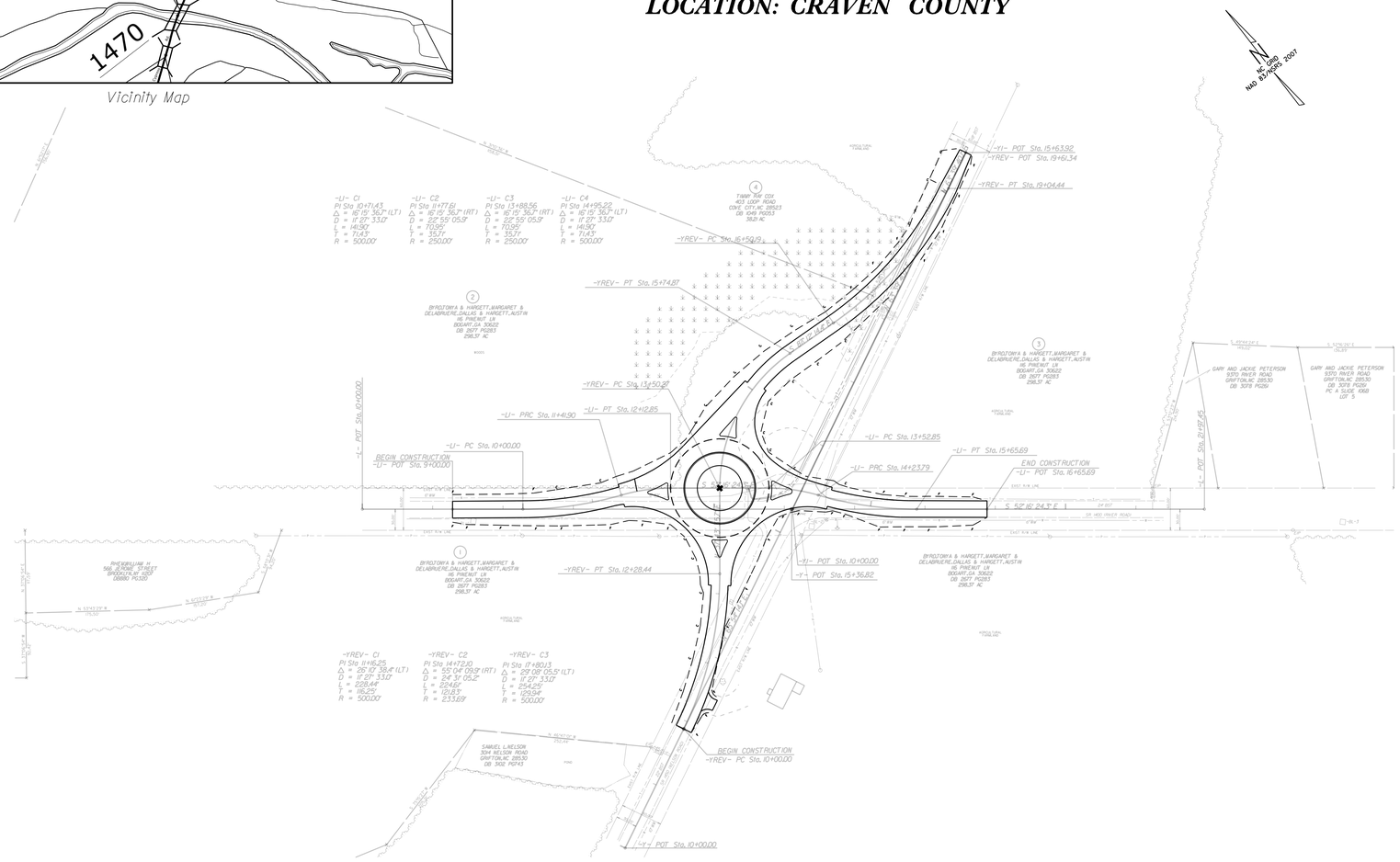


Vicinity Map

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LOCATION: CRAVEN COUNTY



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

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.

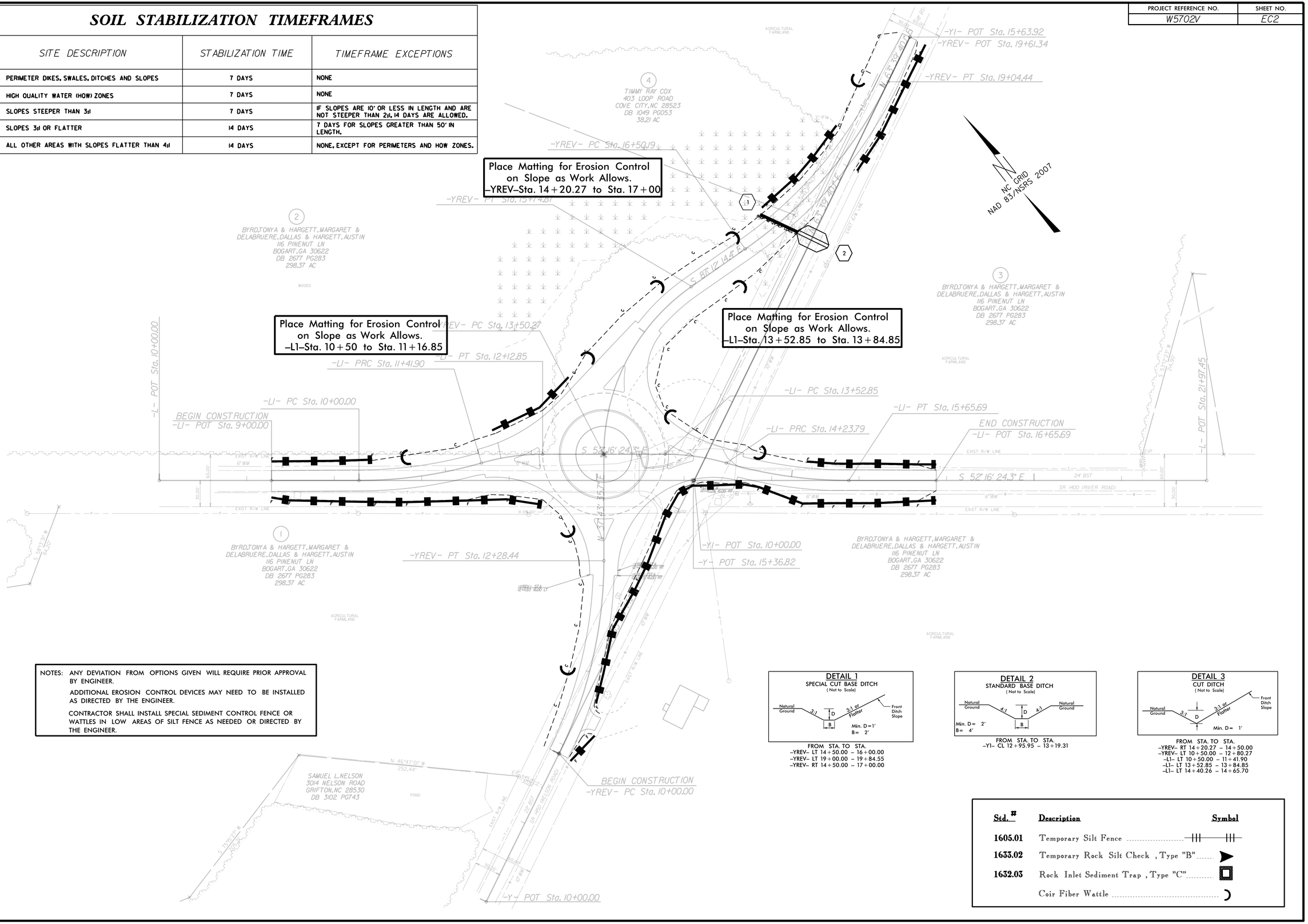
1604.01	Railroad Erosion Control Detail
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1607.01	Gravel Construction Entrance
1622.01	Temporary Berms and Slope Drains
1630.01	Riser Basin
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin
1630.05	Temporary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

19-MAR-2023 19:19
G:\PROJECTS\CRAVEN\W-5702V\W5702V_psh_ec1.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W5702V	EC2

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.



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.

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1633.02	Temporary Rock Silt Check, Type "B"	
1632.03	Rock Inlet Sediment Trap, Type "C"	
	Coir Fiber Wattle	

REVISIONS 8/17/99

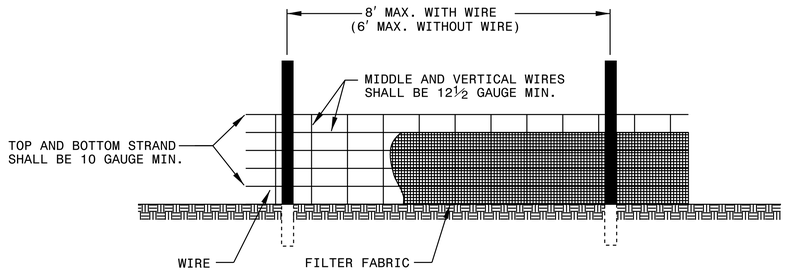
13-MAR-2023 13:19
G:\PROJECTS\CRAVEN\W-5702V\W5702V_psh_ec2.dgn
$$$$USERNAME$$$$

8/17/99

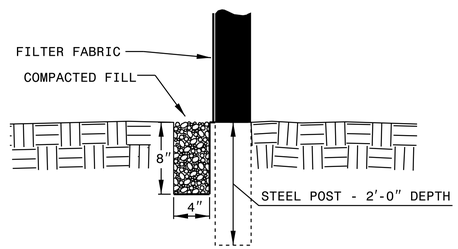
REVISIONS

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

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE



NOTES
USE WIRE A MINIMUM OF 32″ IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12″ STAY SPACING.
USE FILTER FABRIC A MINIMUM OF 36″ IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
PROVIDE 5′-0″ STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



EXTENSION OF FABRIC AND WIRE INTO TRENCH

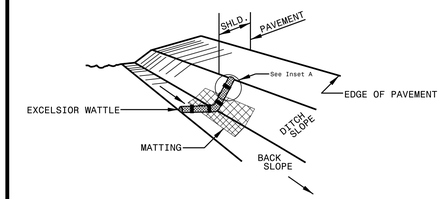
SHEET 1 OF 1
1605.01

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

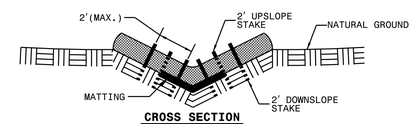
ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01

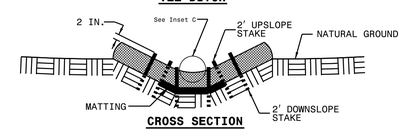
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

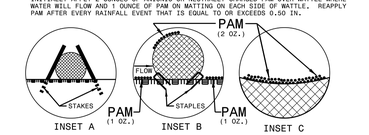
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

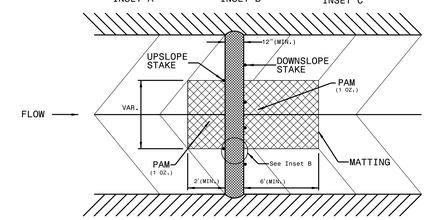
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

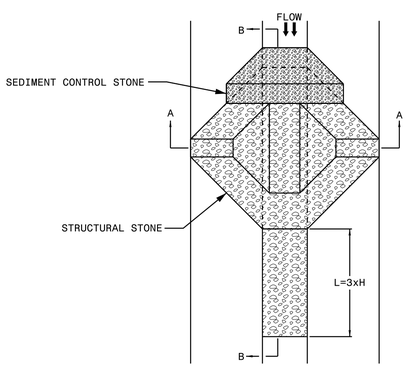




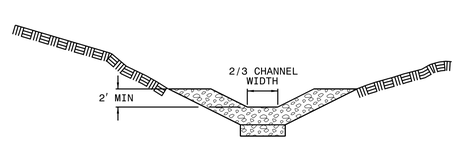
TOP VIEW

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

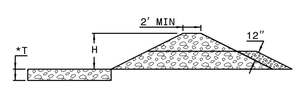
ENGLISH STANDARD DRAWING FOR
TEMPORARY ROCK SILT CHECK TYPE 'A'



PLAN



SECTION A-A



SECTION B-B
*T = 12″ MIN., 18″ MAX.

NOTE
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.

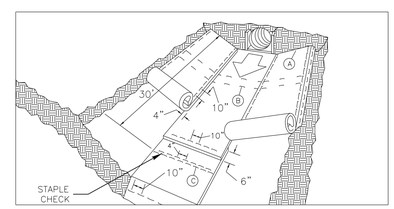
SHEET 1 OF 1
1633.01

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

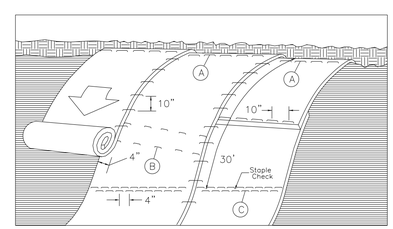
ENGLISH STANDARD DRAWING FOR
TEMPORARY ROCK SILT CHECK TYPE 'A'

SHEET 1 OF 1
1633.01

MATTING INSTALLATION DETAIL



MATTING IN DITCHES



MATTING ON SLOPES

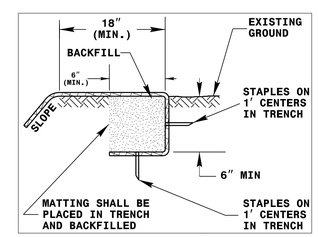


DIAGRAM (A)

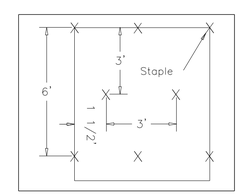


DIAGRAM (B)

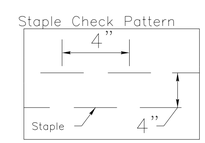


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

19-MAR-2023 13:19
S:\STD\STANDARDS\DWGS\W-5702V\W5702V_psh_ec3_.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	SIGN-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SIGNING PLAN
CRAVEN COUNTY

LOCATION: INTERSECTION OF SR 1400 (RIVER ROAD) AT SR 1450 (NELSON ROAD) NEAR VANCEBORO

GENERAL NOTES

1. SIGNS SHALL BE FURNISHED BY THE STATE.
2. CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ADCTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
3. WHEN NOT STATIONED ON THE PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
4. THE BACKGROUND FOR TYPE 'E' AND 'F' SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

2018 ROADWAY ENGLISH STANDARD DRAWING

EFF. 01-16-2018
REV.

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

STD. NO.	TITLE
904.1	ORIENTATION OF GROUND MOUNTED SIGNS
904.5	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL POSTS
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

INDEX OF SHEETS

SHEET #	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE 'E' SIGNS
SIGN-3	SIGNING PLAN SHEET

SUMMARY OF QUANTITIES

ITEM NUMBER		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NUMBER	SECT. NUMBER			
4102000000	904	SIGN ERECTION, TYPE E	32	EA
4155000000	907	STOCKPILE SIGN D, E OR F	6	EA

REVISIONS

8/17/99

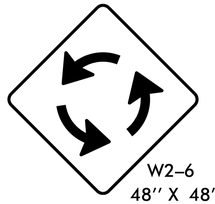
19-MAR-2023 19:19
C:\USERS\CLANE\DOCUMENTS\W-5702V\W5702V_SIGN1.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	SIGN2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

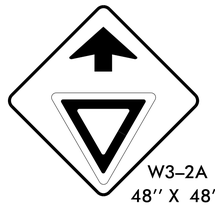
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

401 QUANTITY REQUIRED = 4



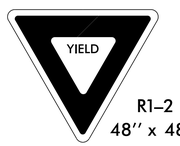
W2-6
48'' X 48''

402 QUANTITY REQUIRED = 4



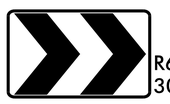
W3-2A
48'' X 48''

403 QUANTITY REQUIRED = 8



R1-2
48'' x 48'' x 48"

404 QUANTITY REQUIRED = 4

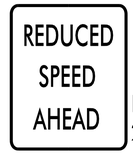


R6-4
30'' X 24''

405 QUANTITY REQUIRED = 4

R2-1
24'' X 30''

406 QUANTITY REQUIRED = 4



R2-5 A
24'' X 30''

407 QUANTITY REQUIRED = 4

R2-1
24'' X 30''

TYPE E SIGNS

REVISIONS

8/17/99

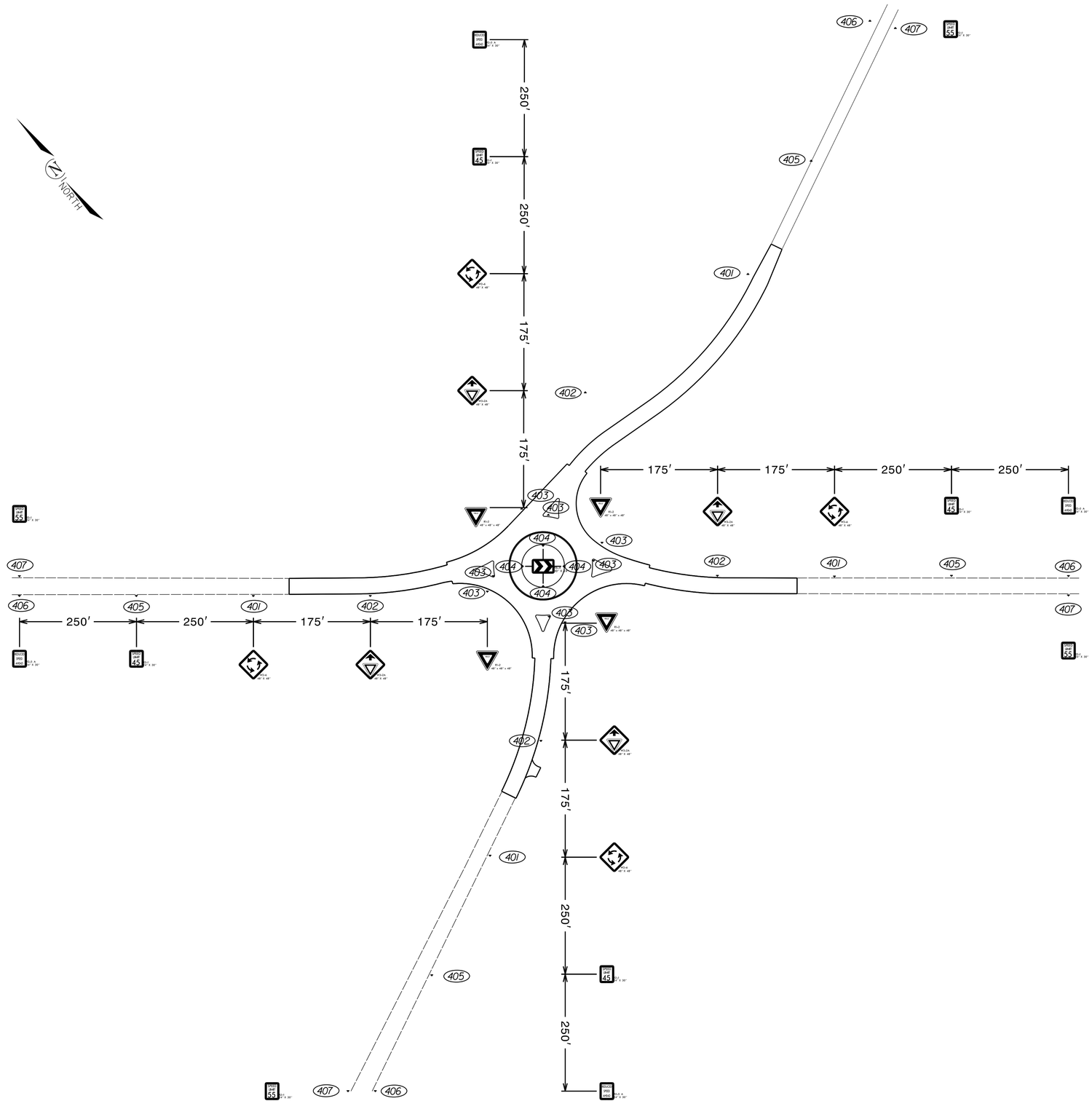
19-MAR-2023 13:18
C:\PROJECTS\TEMP\W-5702V\W5702V_SIGN2.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	SIGN3
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



TYPE E SIGNS
NOT TO SCALE

REVISIONS

8/17/99

19-MAR-2023 13:19
S:\STD\TEC\SIGNEN\W-5702V\W5702V_SIGN3.dgn
$$$$USERNAME$$$$

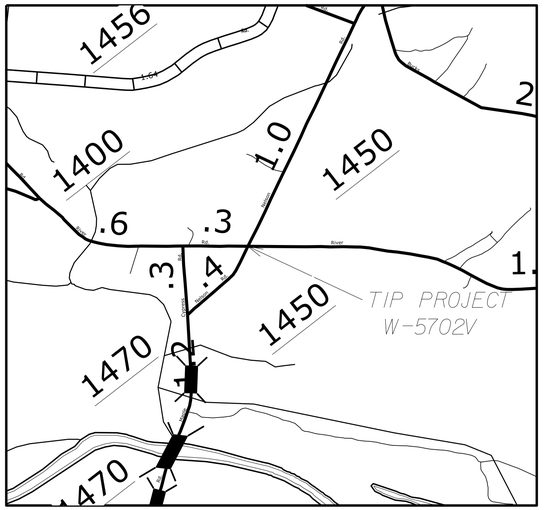
09/08/99

TIP PROJECT: W-5702V

T.I.P. NO.	SHEET NO.
W-5702V	UC-1

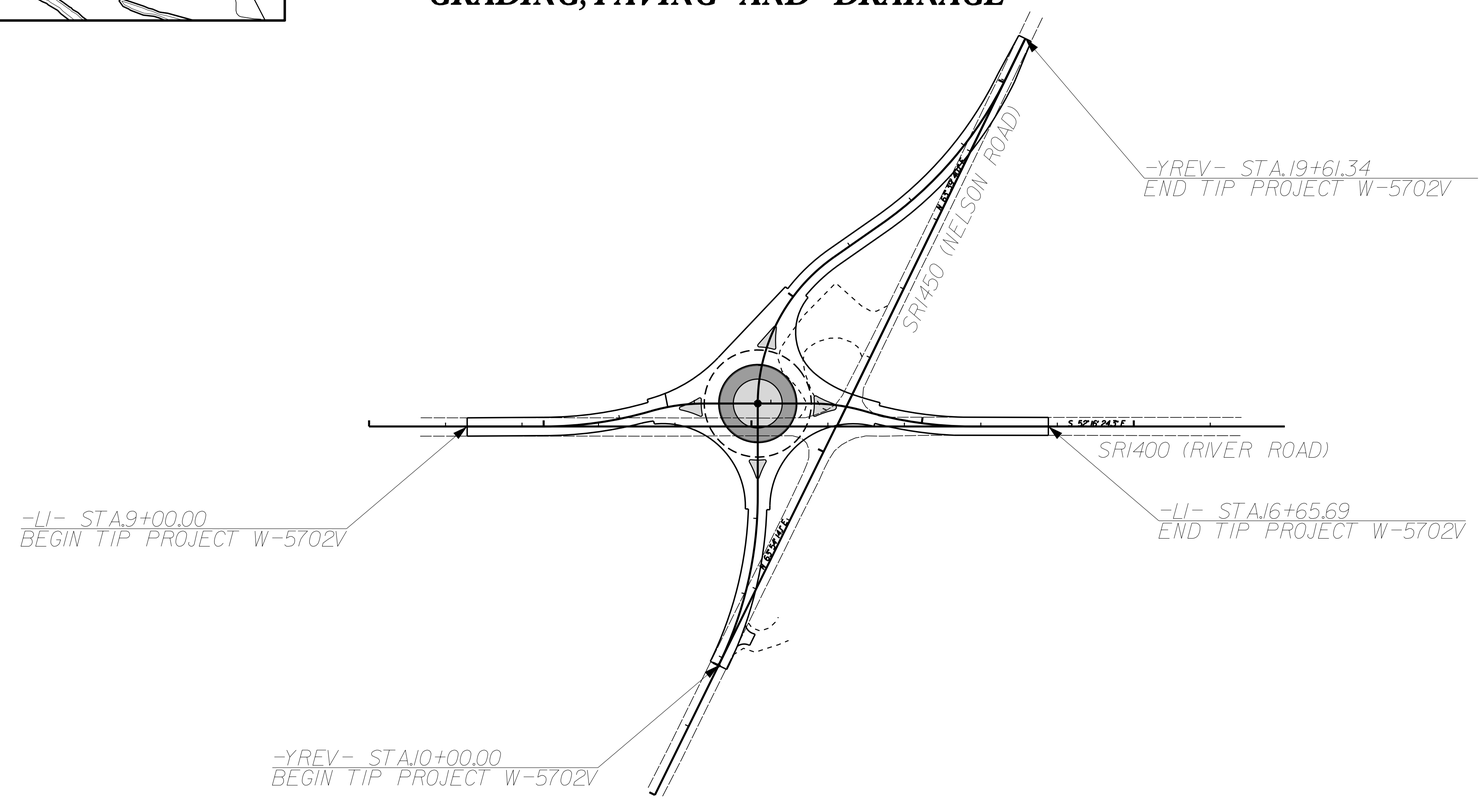
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

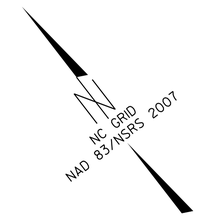
UTILITY CONSTRUCTION PLANS
CRAVEN COUNTY



LOCATION: INTERSECTION OF SR1400 (RIVER ROAD) AT SR1450 (NELSON ROAD)

TYPE OF WORK: CONSTRUCT RAB ON NEW LOCATION GRADING, PAVING AND DRAINAGE





NOTE: -YREV- ALIGNMENT REVISION NORTH OF UTILITY WORK

NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE REVISIONS.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

HON F. YEUNG, P.E.

ON 10/18/22

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES, DETAILS, QUANTITIES
UC-4	UTILITY CONSTRUCTION SHEET

WATER OWNER ON PROJECT

CRAVEN COUNTY WATER

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 2022

LETTING DATE: APRIL 2023

HEATHER C. LANE, P.E.
PROJECT ENGINEER

RICH GODLEY
PROJECT DESIGN ENGINEER

UTILITY ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

P.E.

SIGNATURE:

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION

19-MAR-2023 19:19
G:\PROJECTS\CRAVEN\W-5702V\W5702V_PSH_ucl.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	UC2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

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

PROPOSED SEWER SYMBOLS

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

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Telephone Pedestal — TEL PED
- Utility Line by Others (Type as Shown) — PROP O/H POW LINES
- Trenchless Installation — 12" TL INSTALL
- Encasement by Open Cut — 24" ENCAS BY OC
- Encasement — 24" ENCASEMENT
- Thrust Block
- Air Release Valve — AR
- Utility Vault — UV
- Concrete Pier — CP
- Steel Pier — SP
- Plan Note — NOTE
- Pay Item Note — PAY ITEM

EXISTING UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Utility Pole
- Utility Pole with Base
- H-Frame Pole
- Power Transmission Line Tower
- Water Manhole
- Power Manhole
- Telephone Manhole
- Sanitary Sewer Manhole
- Hand Hole for Cable
- Power Transformer
- Telephone Pedestal
- CATV Pedestal
- Gas Valve
- Gas Meter
- Located Miscellaneous Utility Object
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.
- *Underground Power Line
- *Underground Telephone Cable
- *Underground Telephone Conduit
- *Underground Fiber Optics Telephone Cable
- *Underground TV Cable
- *Underground Fiber Optics TV Cable
- *Underground Gas Pipeline
- Aboveground Gas Pipeline — A/G Gas
- *Underground Water Line
- Aboveground Water Line — A/G Water
- *Underground Gravity Sanitary Sewer Line — SS
- Aboveground Gravity Sanitary Sewer Line — A/G Sanitary Sewer
- *Underground SS Forced Main Line
- Underground Unknown Utility Line
- SUE Test Hole
- Water Meter
- Water Valve
- Fire Hydrant
- Sanitary Sewer Cleanout

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

REVISIONS

8/17/99

19-MAR-2023 19:20
C:\WORKAREA\PWIDEN\W-5702V\W5702V_PSH_uc2.dgn
$$$$USERNAME$$$$

UTILITY CONSTRUCTION

GENERAL NOTES:

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

2. THE EXISTING UTILITY BELONGS TO CRAVEN COUNTY WATER AND SEWER.

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

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

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

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

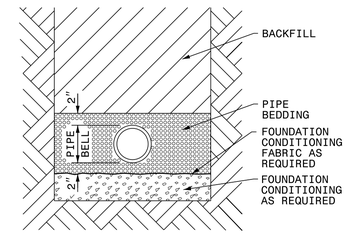
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

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

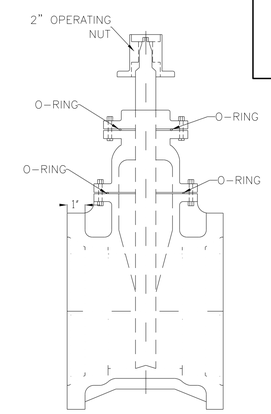
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

SECTION	QUANTITY	UNIT	ITEM DESCRIPTION
300	10	TONS	FOUNDATION CONDITIONING MATERIAL,MINOR STRUCTURES
300	30	SY	FOUNDATION CONDITIONING GEOTEXTILE
1510	460	LF	6" WATER LINE (C900)
1510	1,000	LB	DUCTILE IRON WATER PIPE FITTINGS
1515	3	EA	6" VALVE (GATE)
1530	460	LF	ABANDON 6" UTILITY PIPE
1540	70	LF	10" ENCASEMENT PIPE (STEEL)
1605	150	LF	TEMPORARY SILT FENCE
SP	60	LF	COIR FIBER WATTLE

TRENCH DETAIL

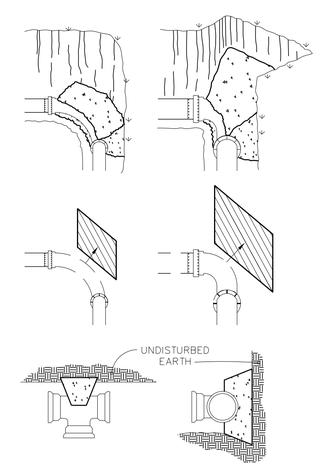


PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING ALONG CASINGS, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



TYPICAL RESILIENT MECHANCIAL JOINT GATE VALVE DETAIL

NTS



MINIMUM CONCRETE BLOCKING (C.Y.) *			
NOMINAL PIPE DIAMETER INCHES	TEES & DEAD ENDS	90° BEND	45° BEND
4	1/3	1/3	1/3
6	1/3	1/3	1/3
8	1/3	1/2	1/3
10	2/3	3/4	1/2
12	3/4	1.0	2/3
14	1.0	1 1/2	3/4
16	1 1/3	2.0	1.0
18	1 2/3	2 1/3	1 1/3
20	2.0	3.0	1 2/3
24	3.0	4 1/3	2 1/3

NOTES:

1) FITTING SHALL BE WRAPPED WITH A MINIMUM 4 MIL PLASTIC.
2) NO CONCRETE SHALL COVER BOLTS OR GLANDS.

* CONCRETE SHALL BE 3000 P.S.I. MIX.

STANDARD REACTION BLOCKING

NTS

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	UC3
R/W SHEET NO.	

UTILITY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042582 ENGINEER HEATHER C. LANE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTE: -YREV- ALIGNMENT REVISION NORTH OF UTILITY WORK

NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE REVISIONS.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

HON F. YEUNG, P.E.

ON 10/18/22

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.

8/17/99

REVISIONS

19-MAR-2023 19:20
C:\SDC_WORK\CRAVEN\W-5702V\W5702V_PSH_uc3.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5702V	UC4
R/W SHEET NO.	

UTILITY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 041513 ENGINEER HON F. YEUNG

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTE: -YREV- ALIGNMENT REVISION NORTH OF UTILITY WORK

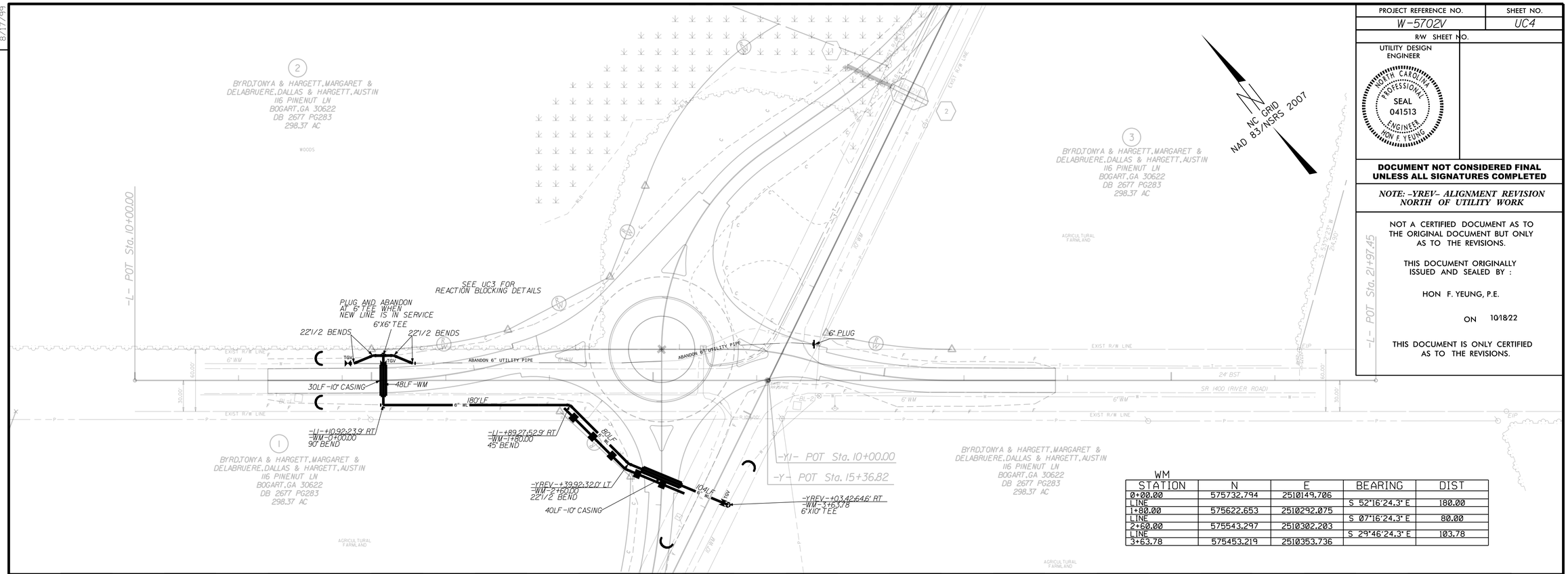
NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE REVISIONS.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

HON F. YEUNG, P.E.

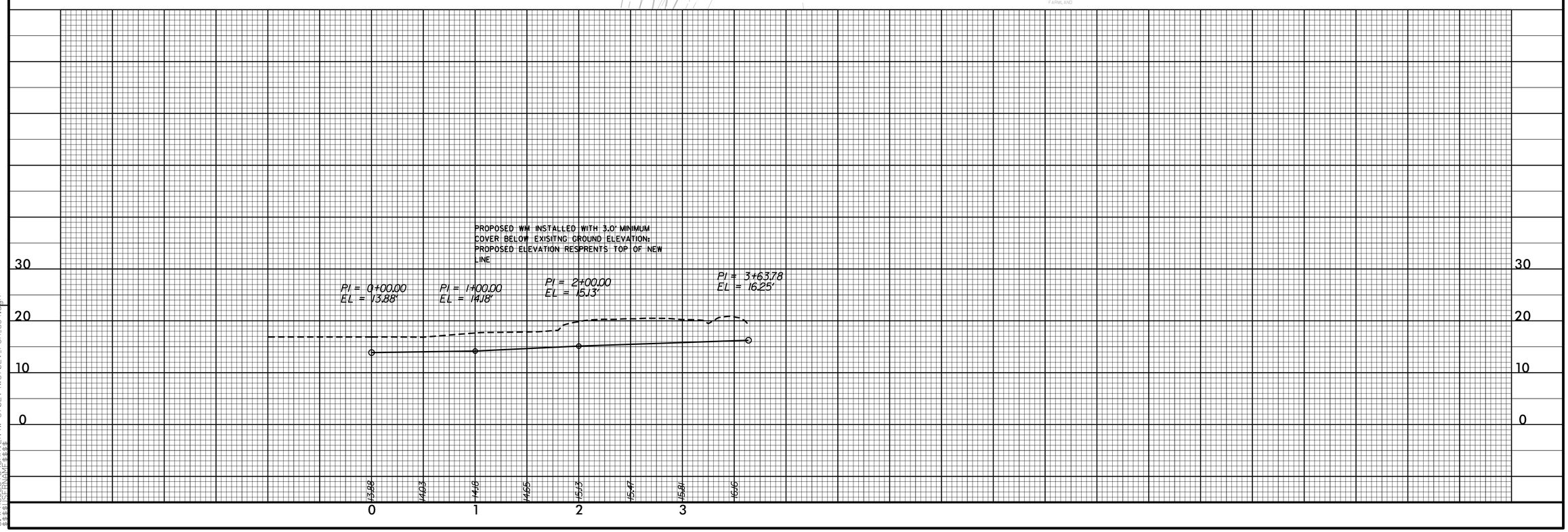
ON 10/18/22

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.



WM

STATION	N	E	BEARING	DIST
0+00.00	575732.794	2510149.706		
LINE			S 52°16'24.3" E	180.00
1+80.00	575622.653	2510292.075		
LINE			S 07°16'24.3" E	80.00
2+60.00	575543.297	2510302.203		
LINE			S 29°46'24.3" E	103.78
3+63.78	575453.219	2510353.736		



REVISIONS

8/17/99

19-MAR-2023 19:20
C:\WORKSPACE\HEN\W-5702V\W5702V_PSH_uc4.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W5702V	X-1A

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".

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS-SECTION SUMMARY

IN CUBIC YARDS

LOCATION (-L1-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
9+00.00	0	0	0
9+20.00	18	0	2
9+68.00	39	0	11
9+84.00	11	0	7
10+00.00	9	0	10
10+16.00	7	0	13
10+50.00	11	0	37
11+00.00	8	0	79
11+16.85	1	0	36
11+41.90	1	0	75
11+64.85	0	0	99
12+12.85	0	0	333
12+47.85	3	0	309
12+82.85	3	0	332
13+17.85	0	0	292
13+52.85	12	0	143
13+68.85	14	0	18
13+84.85	12	0	6
14+00.85	4	0	2
14+40.26	14	0	3
14+48.85	6	0	0
14+65.70	8	0	1
15+15.70	11	0	10
15+49.70	2	0	13
15+69.69	1	0	8
15+81.69	0	0	5
15+97.69	0	0	7
16+45.69	0	0	12

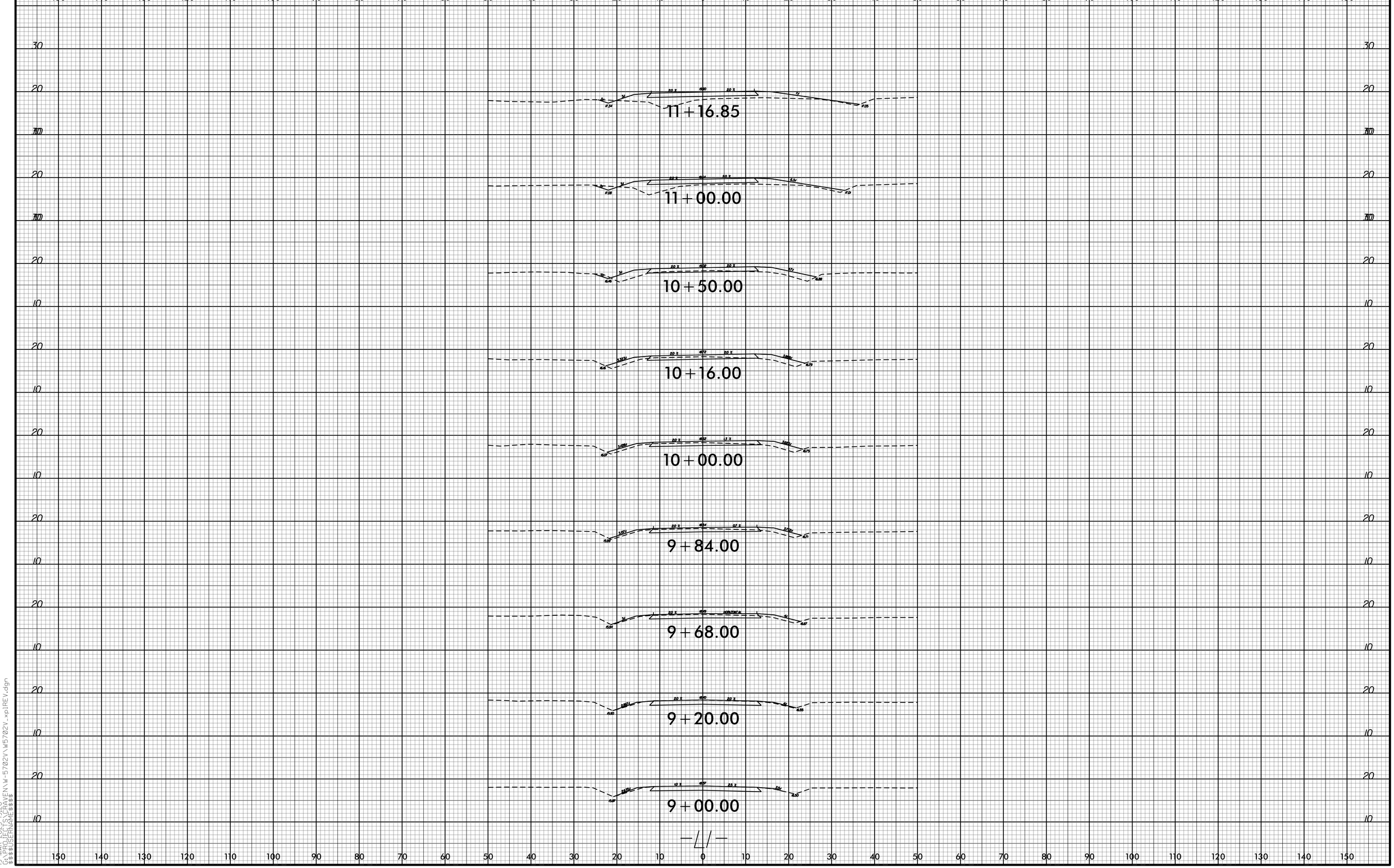
LOCATION (-YREV-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
10+00.00	0	0	0
10+50.00	4	0	6
11+00.00	11	0	6
11+50.00	19	0	3
12+00.00	18	0	23
12+11.93	3	0	11
12+28.44	5	0	17
12+50.00	7	0	26
12+80.27	5	0	56
14+20.53	0	0	0
14+50.00	32	0	26
15+00.00	60	0	13
15+50.00	87	0	5
16+00.00	113	0	0
16+50.00	79	0	6
17+00.00	24	0	106
17+50.00	0	0	153
18+00.00	1	0	85
18+50.00	6	0	46
19+00.00	15	0	21
19+50.00	24	0	10
19+61.34	3	0	1

LOCATION (-Y1-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
12+95.95	0	0	0
13+05.63	16	0	0
13+09.63	12	0	0
13+19.31	16	0	0

Rev. 3/6/01
19-MAR-2023 19:20
C:\WORKAREA\ENV\w-5702V\W5702V_PSHX1A.dgn
$$$$USERNAME$$$$

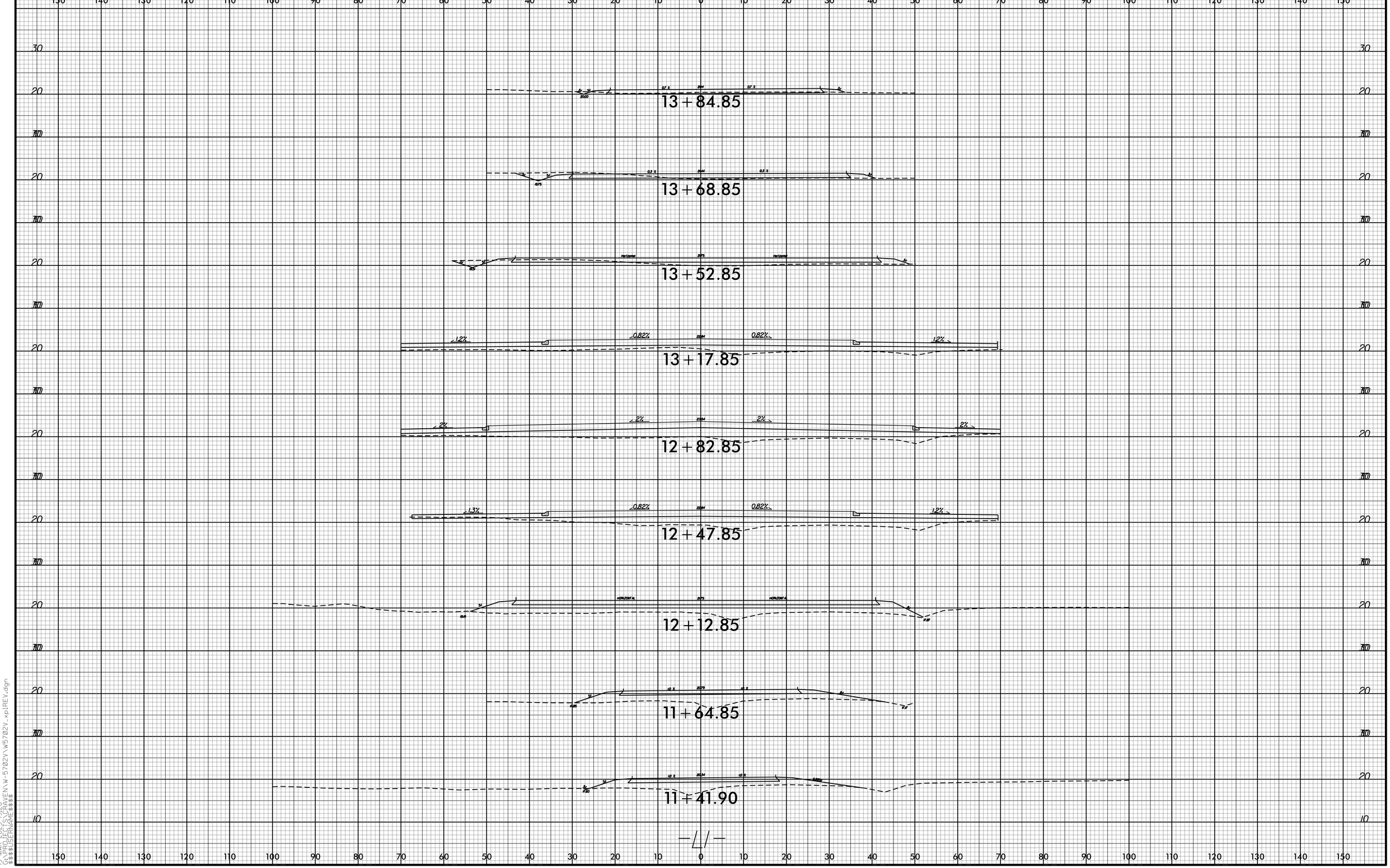
6/23/16

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



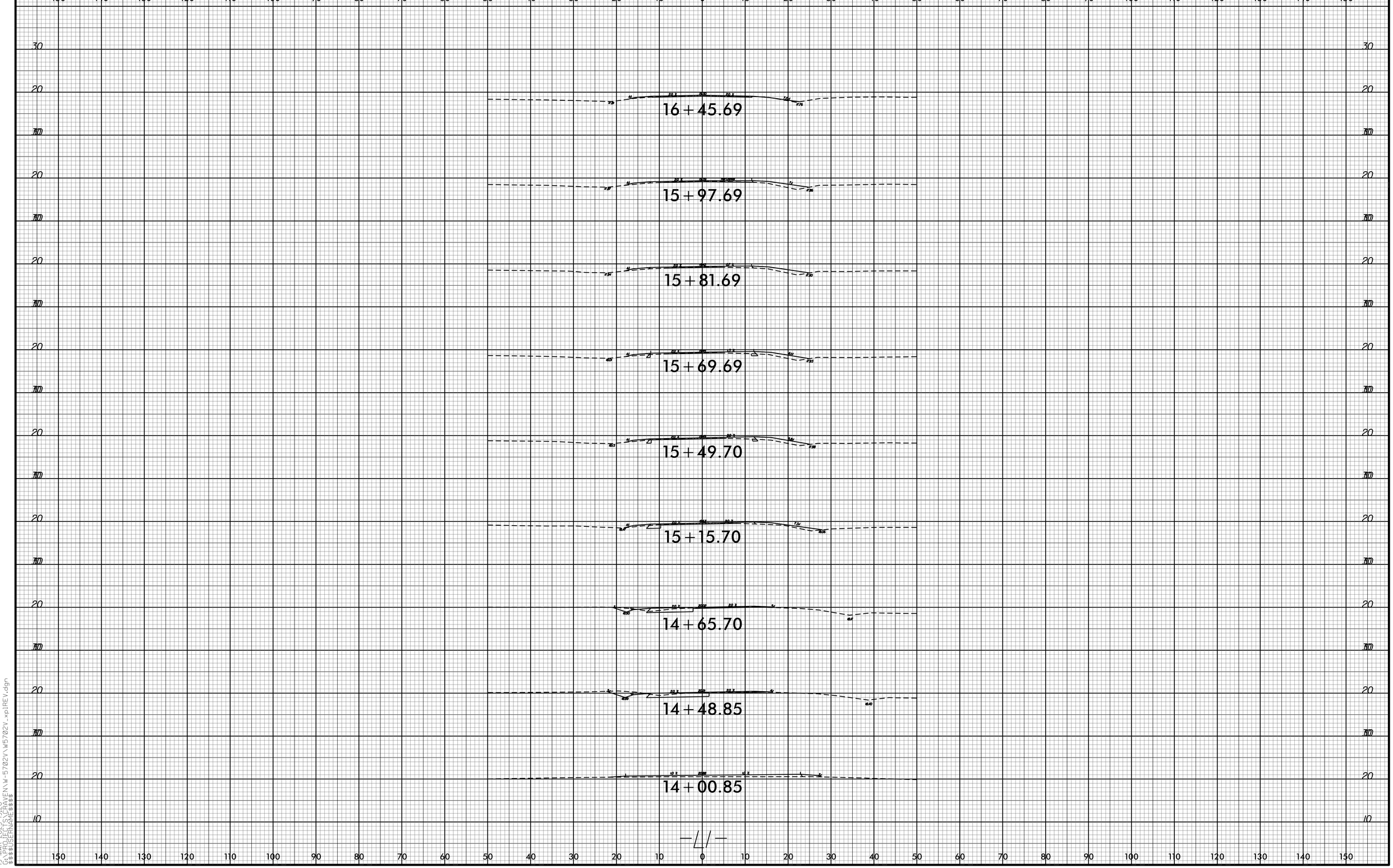
19-MAR-2023 9:20
C:\PROJECTS\OPEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	X-2



6/23/16
19-MAR-2023 9:20
C:\PROJECTS\W5702V\DESIGN\W-5702V-xp1REV.dgn
$$$$USERNAME$$$$

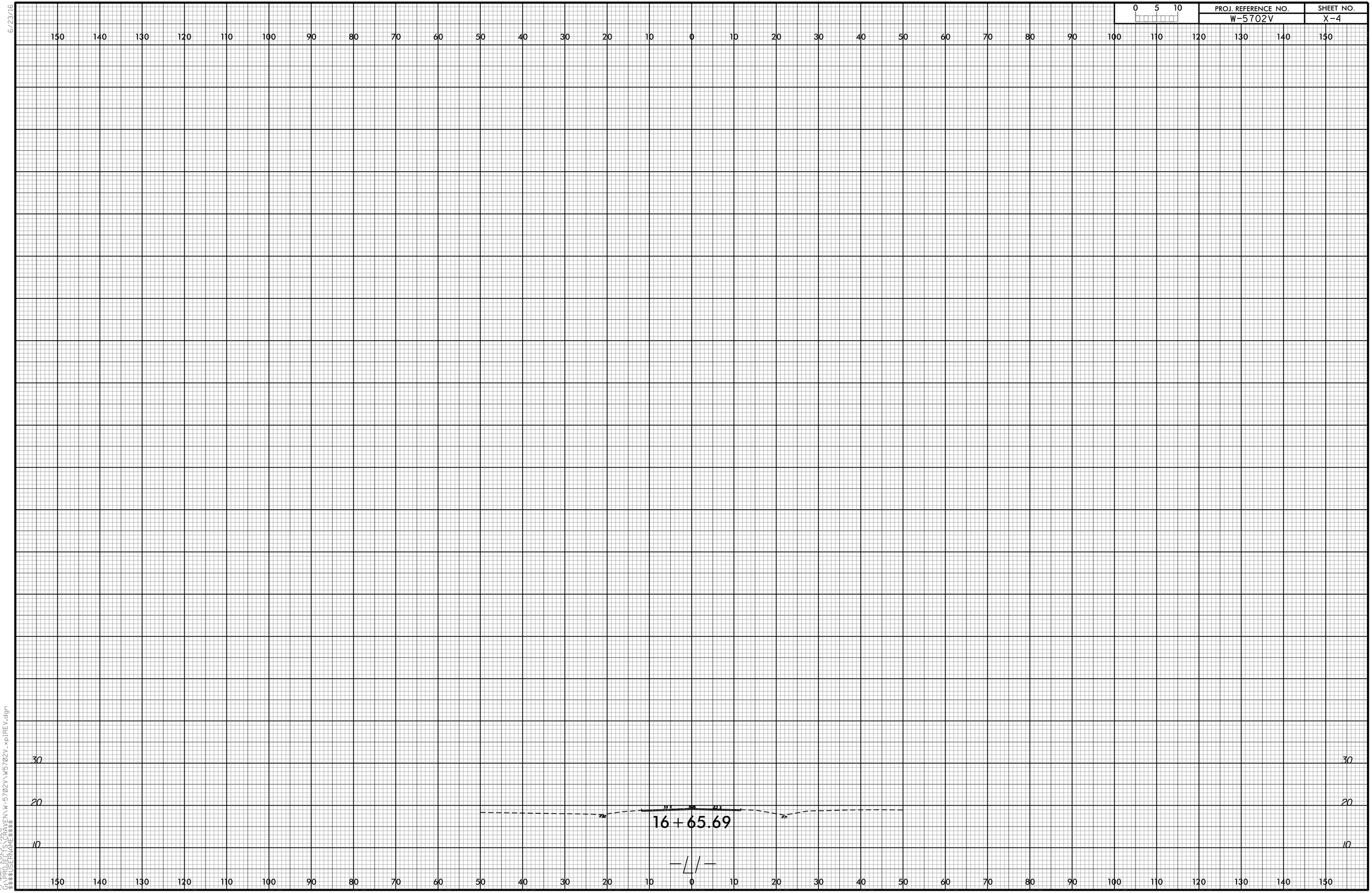
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702V	X-3



6/23/16
19-MAR-2023 9:20
C:\PROPOSAL\GEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

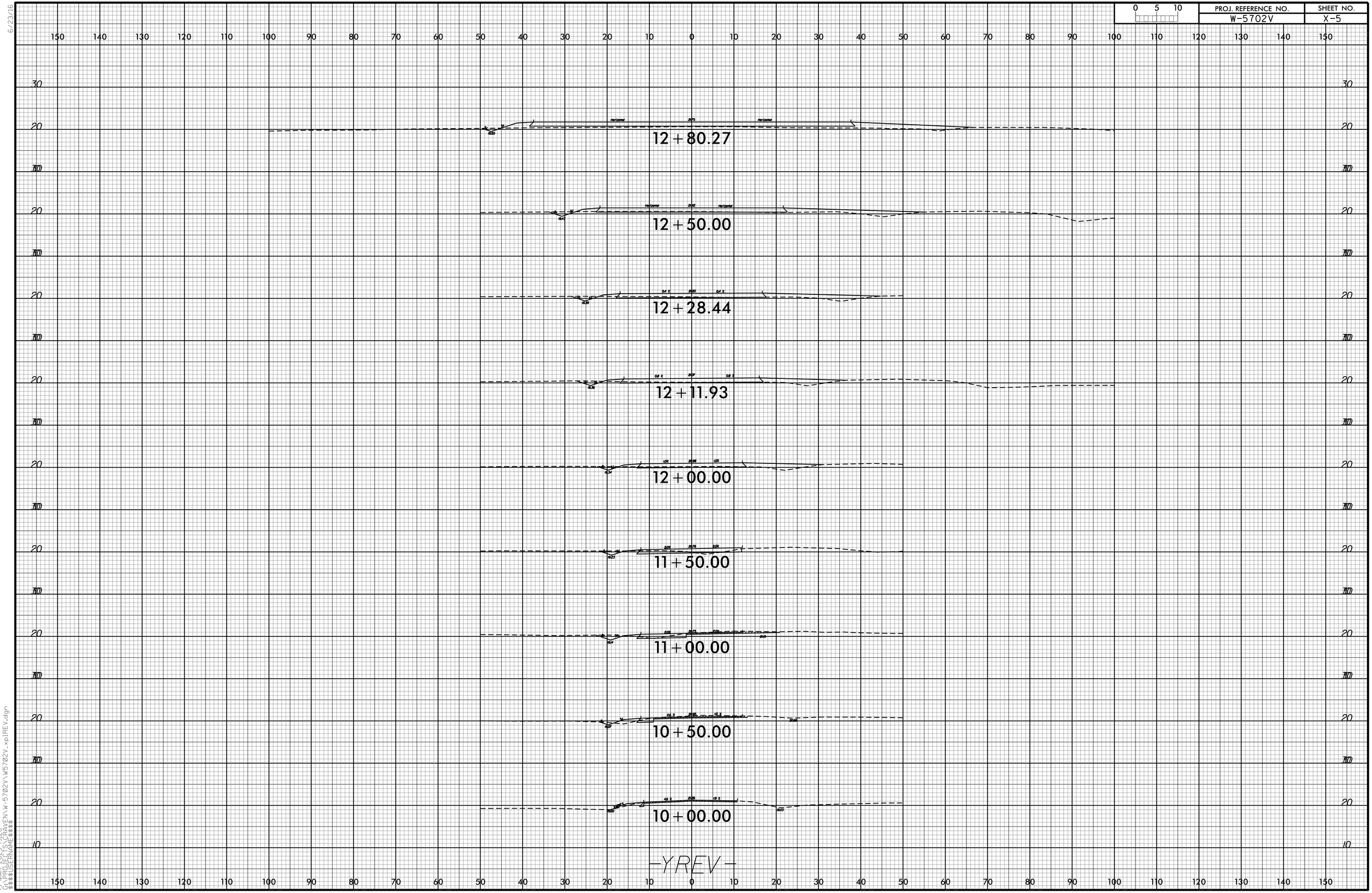
6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702V	X-4



19-MAR-2023 9:20
C:\PROJECTS\CADD\EN\W-5702V\W5702V_xp1REV.dgn
$$$$USERNAME$$$$

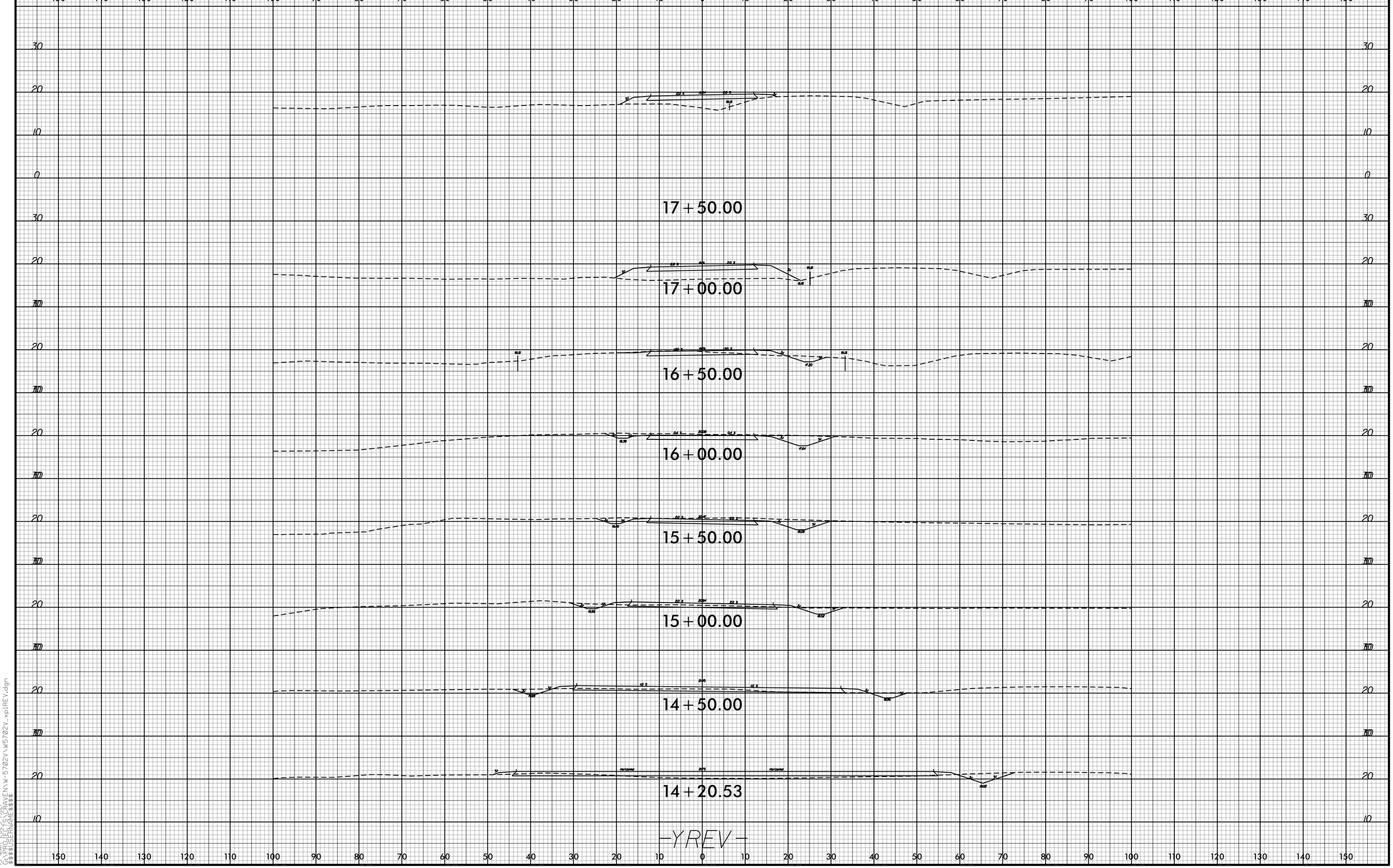
PROJ. REFERENCE NO.	SHEET NO.
W-5702V	X-5



6/23/16

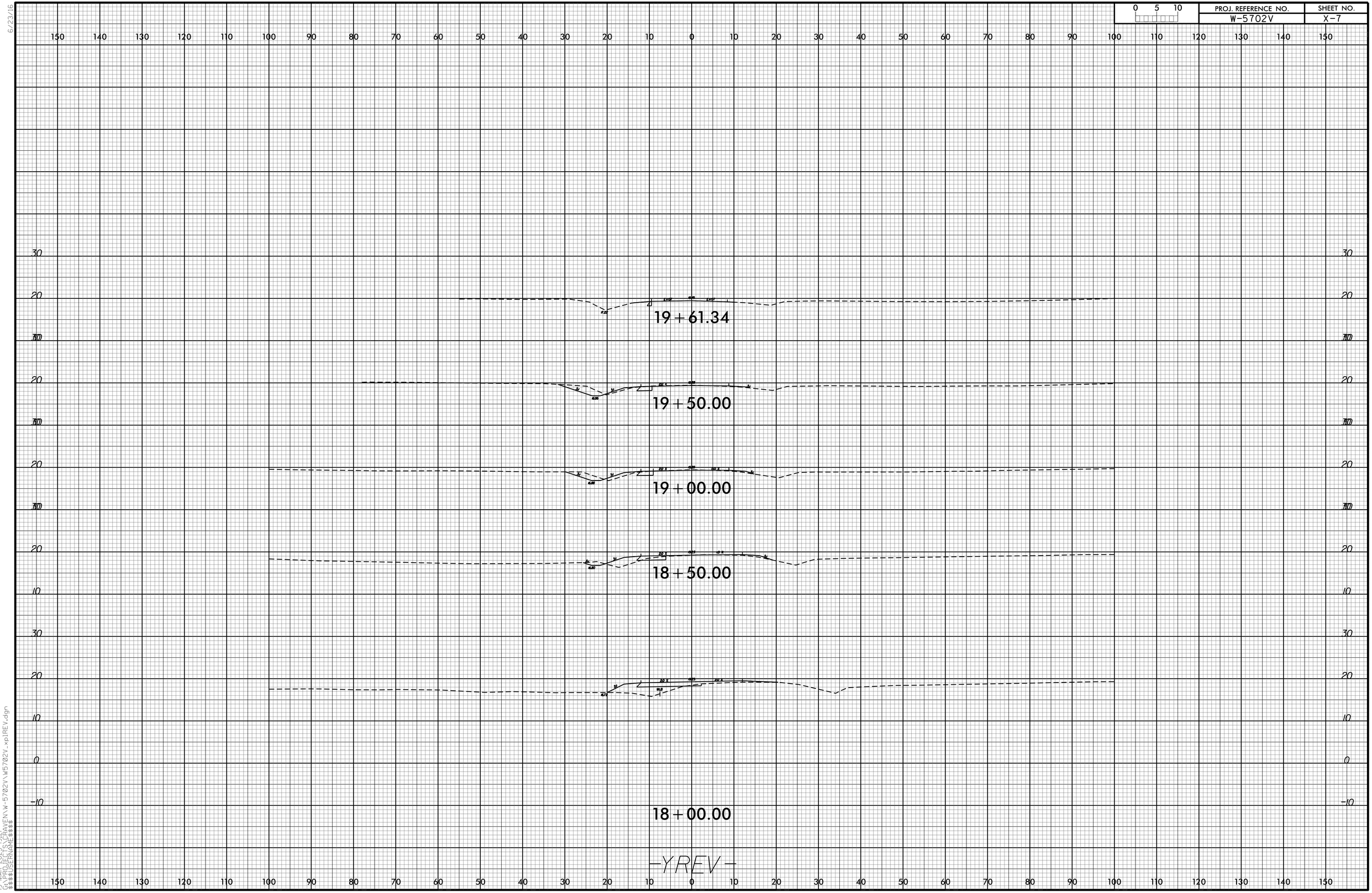
19-MAR-2023 9:20
C:\PROGRAMDATA\BENTLEY\ENV\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5702V	X-6



6/23/16
19-MAR-2023 9:21
C:\PROJECTS\RAVEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5702V	X-7



6/23/16

19-MAR-2023 9:21
C:\PROJECTS\RAVEN\W-5702V\W5702V-xp1REV.dgn
$$$$USERNAME$$$$