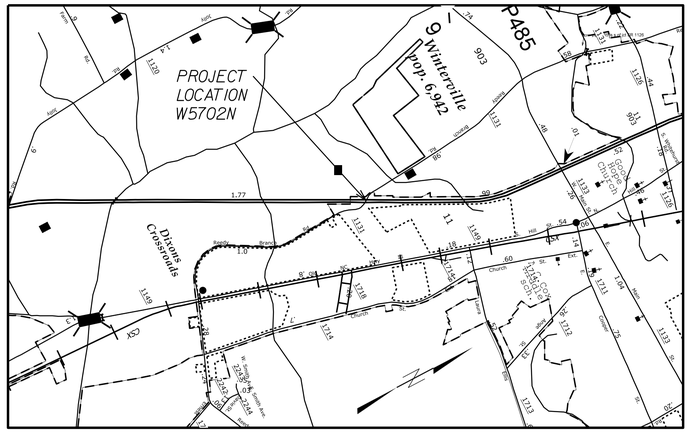
09/08/99

TIP PROJECT: W5702N

CONTRACT: DB00478



See Sheet 1A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

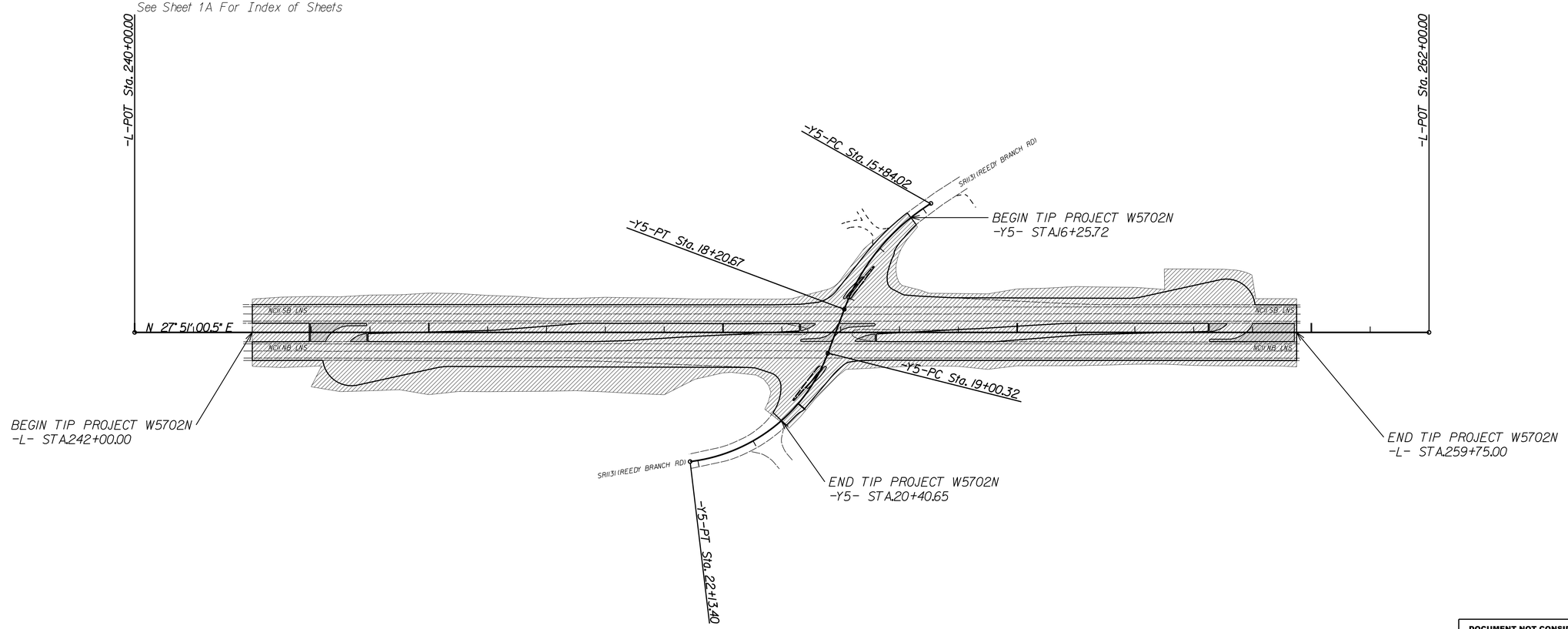
PITT COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W5702N	1	28

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44848.1.14	HSIP-0011(041)	PE
44848.2.14	HSIP-0011(041)	UTILITY
44848.3.14	HSIP-0011(041)	CONST

LOCATION: NC11 AT SR1131 (REEDY BRANCH ROAD)
"MOST SOUTHERN INTERSECTION"

TYPE OF WORK: CROSSOVER REVISIONS
CONSTRUCTION OF SUPER STREET DESIGN



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GRAPHIC SCALES

100 50 0 100 200
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

PROJECT LENGTH

TIP PROJECT W5702N LENGTH = 0.336 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
1037 WH SMITH BLVD., GREENVILLE NC, 27834

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 2018

LETTING DATE:
JULY 2019

JEFFREY D. CABANISS, PE
PROJECT ENGINEER

RICH GODLEY
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS

DocuSigned by: Jeffrey D. Cabaniss
F53805B9C4F54DD...
SIGNATURE: 4/4/2019 P.E.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS

DocuSigned by: Jeffrey D. Cabaniss
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SIGNATURE: 4/4/2019 P.E.

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W5702N	1A

INDEX OF SHEETS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

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

GRADING AND SURFACING OR RESURFACING AND WIDENING:

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

GRADING:

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

SIDE ROADS:

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

UTILITIES:

OWNERS:
GREENVILLE UTILITIES COMMISSION
CENTURYLINK
SUDDENLINK COMMUNICATION
CONTENTNEA MBD
CONTERRA ULTRA BROADBAND
TOWN OF WINTERVILLE

2018 ROADWAY ENGLISH STANDARD DRAWINGS

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

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

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
W5702N	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

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

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

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

RIGHT OF WAY & PROJECT CONTROL:

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

ROADS AND RELATED FEATURES:

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

VEGETATION:

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

EXISTING STRUCTURES:

MAJOR:

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

MINOR:

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

UTILITIES:

POWER:

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

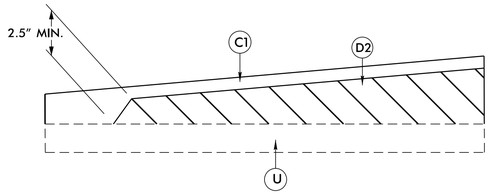
MISCELLANEOUS:

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

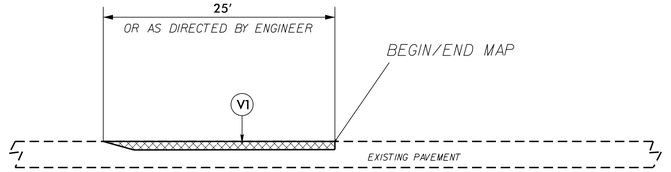
6/2/99

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4.0" IN DEPTH
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	INCIDENTAL MILLING.

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

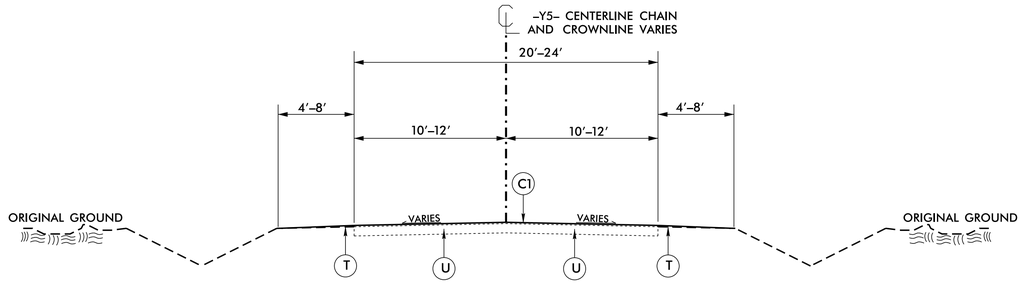


WEDGING DETAIL
NOT TO SCALE



MILLING DETAIL I
BEGIN/END MAP TIE INS

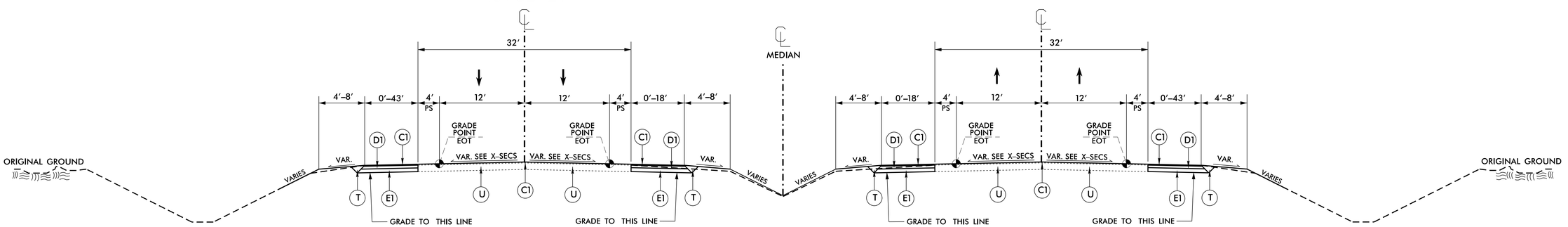
NOTE:
MILLING SHALL BE PREFORMED AT MAIN LINE TIE INS AND Y-LINE TIE INS AS DIRECTED BY THE ENGINEER,IN ACCORDANCE WITH THIS DETAIL.



USE TYPICAL SECTION #1
-Y5- STA.16+25.72 - STA.20+40.65

NCII SB LN

NCII NB LN



USE TYPICAL SECTION #2
-L- STA.242+00.00 - STA.259+75.00

*** DRAWING NOT TO SCALE ***

PROJECT REFERENCE NO.	SHEET NO.
W5702N	2

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 034398 ENGINEER JEFFREY D. CABANISS
4/4/2019

PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 034398 ENGINEER JEFFREY D. CABANISS
4/4/2019

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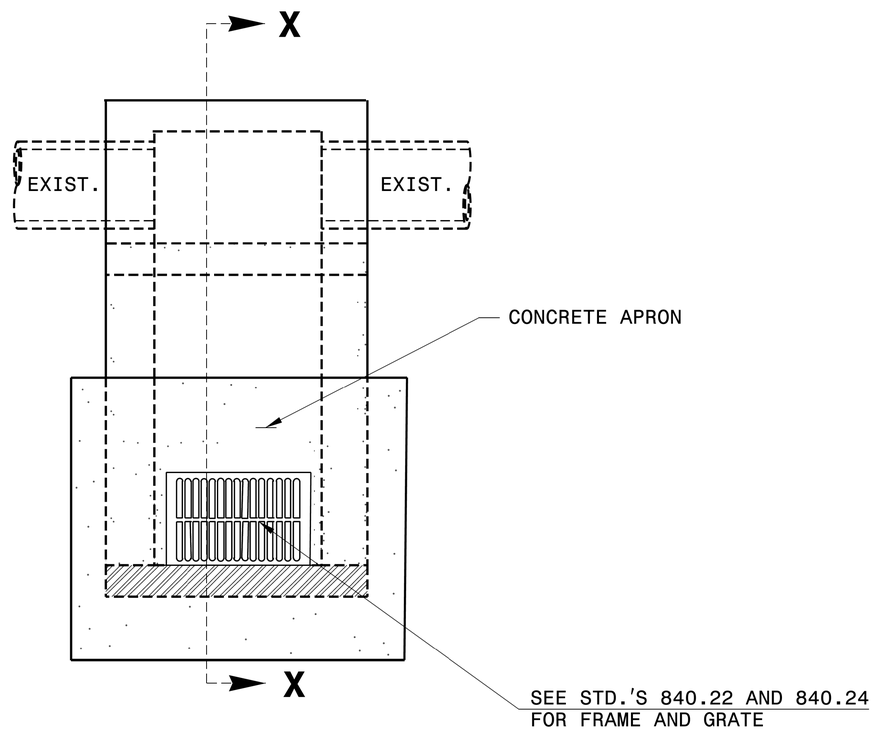
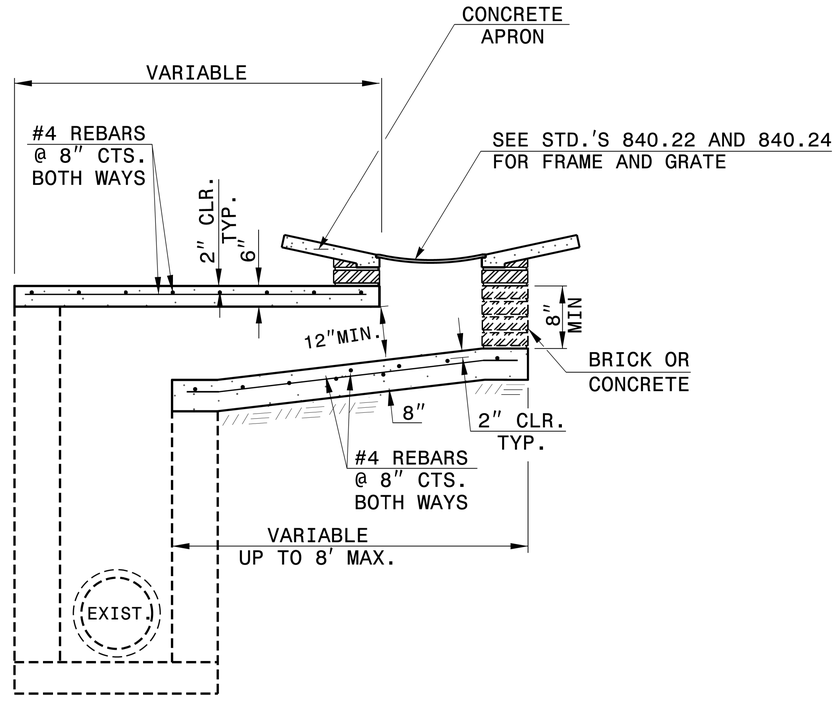
REVISIONS



PLAN



SECTION X-X

NOTES:

MORTAR JOINTS ½" TO ¼" THICK.

USE CLASS "B" CONCRETE THROUGHOUT.

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

CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

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

PROPOSED OFFSET DROP INLET

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

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PROJECT REFERENCE NO.	SHEET NO.
W5702N	3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

SECT	QUANTITY	UNIT	ITEM DESCRIPTION
800	1	LS	MOBILIZATION
801	1	LS	CONSTRUCTION SURVEYING
226	1	LS	GRADING
300	70	TON	FOUNDATION CONDITIONING MATERIAL,MINOR STRUCTURES
300	210	SY	FOUNDATION CONDITIONING GEOTEXTILE
310	462	LF	24" RCP,CLASS III
310	160	LF	30" RCP,CLASS III
545	10	TON	INCIDENTAL STONE BASE
607	520	SY	INCIDENTAL MILLING
610	1,250	TON	ASPHALT CONCRETE BASE COURSE,TYPE B25.0C
610	750	TON	ASPHALT CONCRETE INTERMEDIATE COURSE,TYPE I19.0C
610	1,670	TON	ASPHALT CONCRETE SURFACE COURSE,TYPE S9.5B
620	190	TON	ASPHALT BINDER FOR PLANT MIX
840	2	EA	FRAME W/ GRATE STD.840.24
852	740	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
858	2	EA	ADJUSTMENT OF DROP INLETS
SP	128	SF	WORK ZONE ADVANCE/GENERAL WARNING SIGNING
SP	1	LS	TEMPORARY TRAFFIC CONTROL
1205	9,045	LF	THERMOPLASTIC PAVEMENT MARKING LINES (6",90MILS)
1205	2,378	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12",90MILS)
1205	32	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24",90MILS)
1205	10	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90MILS)
1205	18	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90MILS)
1205	1,450	LF	PAINT PAVEMENT MARKING LINES (4")
1205	100	LF	REMOVAL OF PAINT PAVEMENT MARKING LINES (4")
1253	180	EA	SNOWPLOWABLE PAVEMENT MARKERS
1605	512	LF	TEMPORARY SILT FENCE
1610	15	TON	STONE FOR EROSION CONTROL,CLASS B
1610	10	TON	SEDIMENT CONTROL STONE
1615	2	ACRE	TEMPORARY MULCHING
1620	100	LB	SEED FOR TEMPORARY SEEDING
1620	.50	TON	FERTILIZER FOR TEMPORARY SEEDING
1631	225	SY	MATTING FOR EROSION CONTROL
1632	30	LF	1/4" HARDWARE CLOTH
SP	150	LF	COIR FIBER WATTLE
1660	2	ACRE	SEEDING AND MULCHING
1661	100	LB	SEED FOR REPAIR SEEDING
1661	.50	TON	FERTILIZER FOR REPAIR SEEDING
SP	4	EA	RESPONSE FOR EROSION CONTROL
SP	1	EA	CONCRETE WASHOUT STRUCTURE

5/28/99

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COMPUTED BY: RG DATE:
CHECKED BY: DATE:

PROJECT REFERENCE NO.	SHEET NO.
W5702N	3A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

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

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
-L-245+49.9; 5.4'	RT	1		58.60															
-L-243+80.2; 82.4'	RT	2			52.5	52.2	0.19%												
-L-252+39.8; 91.9'	LT	3			56.20	55.40	0.54%												
-L-251+32.29; 88.4'	RT	4			55.16	54.48	0.46%												
-L-258+30.4; 76.7'	LT	5			58.0	57.7	0.19%												
-L-253+25.58; 6.8'	RT	6		61.00															

STATION	C.S. PIPE SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS III) SIZE 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) SIZE 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) CU. YDS. R.C.P.	C.S.P.
-L-245+49.9; 5.4'																												
-L-243+80.2; 82.4'												160'																
-L-252+39.8; 91.9'											150'																	
-L-251+32.29; 88.4'											152'																	
-L-258+30.4; 76.7'											160'																	
-L-253+25.58; 6.8'																												
											462'	160'																

STATION	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0' THRU 5.0')	LIN. FT. A (5.0' THRU 10.0')	LIN. FT. B (10.0' AND ABOVE)	T.B.J.B. STD. 840.34	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET (840.15)	DROP INLET FRAME AND GRATES (840.16)	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	M.H. FRAME & COVER STD. 840.54	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
-L-245+49.9; 5.4'														1						REFER TO PSH 2A
-L-243+80.2; 82.4'																				DRAINAGE PIPE UNDER BULB OUT
-L-252+39.8; 91.9'																				REPLACE
-L-251+32.29; 88.4'																				REPLACE
-L-258+30.4; 76.7'																				DRAINAGE PIPE UNDER BULB OUT
-L-253+25.58; 6.8'														1						REFER TO PSH 2A
														2						

ABBREVIATIONS

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

SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	BOX CULVERT EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
–L– 242+50.00 – 251+29.97	558	0	0	2145	1587	0
–L– 252+50.00 – 259+50.00	99	0	0	1265	1166	0
SUB TOTAL	657	0	0	3410	2753	0
SAY	660	0	0	3600	2940	0

PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
–L–	250+82.91 – 251+29.97	LT	8
TOTAL			8
SAY			10

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

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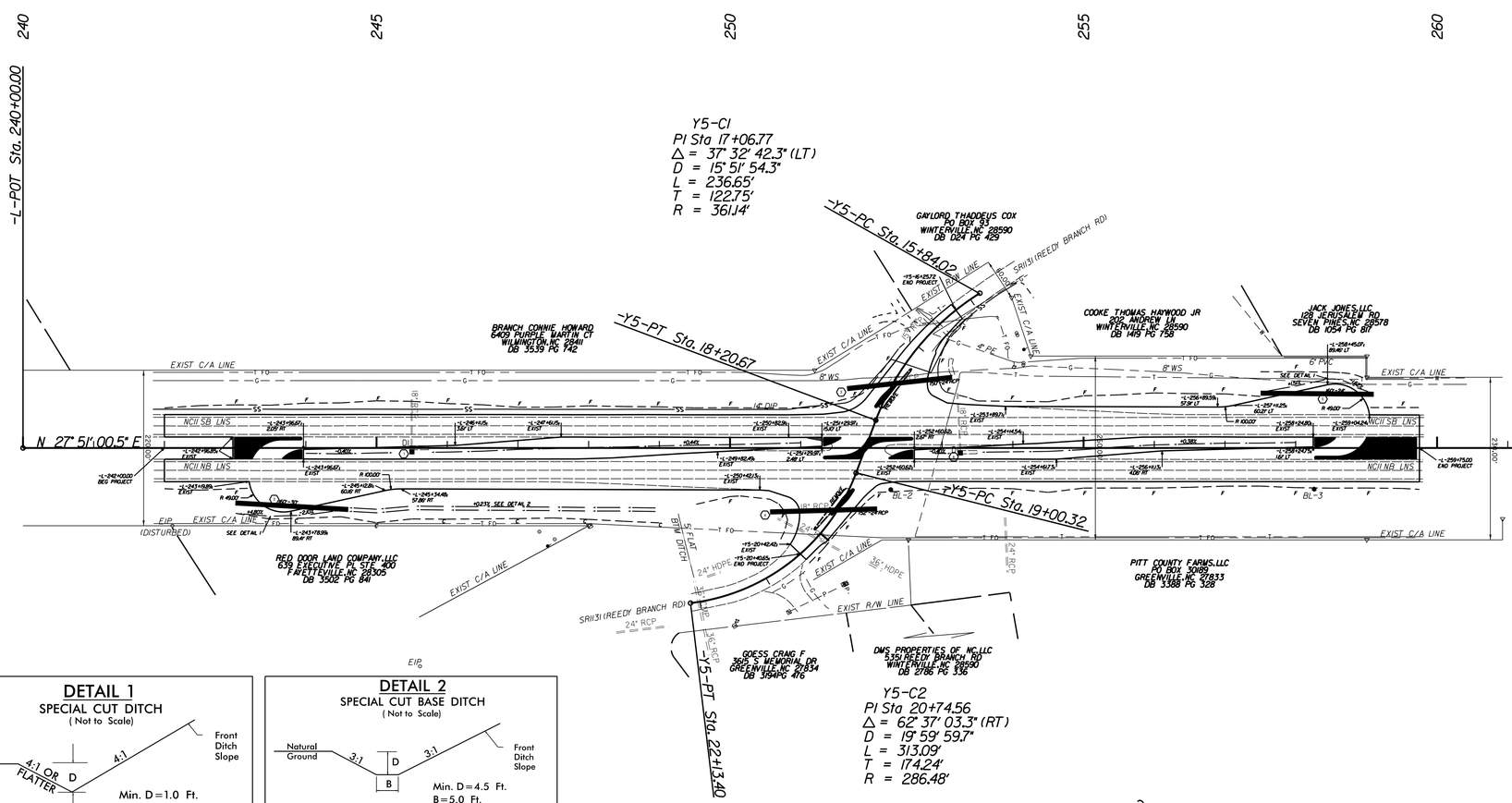
PROJECT REFERENCE NO.	SHEET NO.
W5702N	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 034398 JEFFREY D. CABANISS — 4/4/2019

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 034398 JEFFREY D. CABANISS — 4/4/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

C/A LINES SHOWN PER STATE PROJECT 6.2210019 AS PREPARED IN THE OFFICE OF STATE HIGHWAY COMMISION NOVEMBER 1968



Y5-C2
PI Sta 20+74.56
Δ = 62° 37' 03.3" (RT)
D = 19° 59' 59.7"
L = 313.09'
T = 174.24'
R = 286.48'

DETAIL 1
SPECIAL CUT DITCH
(Not to Scale)

FROM –L– STA.243+00.00 TO STA.244+50.00 RT
BULB OUT LOCATION
FROM –L– STA.257+50.00 TO STA.259+10.00 LT
BULB OUT LOCATION

DETAIL 2
SPECIAL CUT BASE DITCH
(Not to Scale)

FROM –L– STA.244+60 TO STA.249+00.00 RT

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY GPS "BL-2"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 645993.216(ft) EASTING: 2472031.414 (ft)
ELEVATION: 60.794 (ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999885469
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM GPS "BL-2" TO -L-STA. 240+00.00 IS 1,228.79 (ft)

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

ALIGNMENT & CONTROL NOTES

BL–1 (STAMPED DISC)	N 644,878.4570 E 2,471,383.5510	ELEVATION = 55.69'
BL–2 (STAMPED DISC)	N 645,993.2160 E 2,472,031.4140	ELEVATION = 60.79'
BL–3 (STAMPED DISC)	N 646,522.9810 E 2,472,310.4940	ELEVATION = 62.65'
BL–4 (NCGS MONUMENT "CONCRETE 1979")	N 648853.1940 E 2,473407.5480	ELEVATION = 66.15'
–L– POT 240+00.00	N 644,935.5680 E 2,471,405.8638	
–L– POT 262+00.00	N 646,880.7474 E 2,472,433.6172	
–Y5– PC 15+84.02	N 646,234.5062 E 2,471,844.4714	
–Y5– PT 18+20.67	N 646,020.2938 E 2,471,934.7028	
–Y5– PC 19+00.32	N 645,960.7504 E 2,471,987.5950	
–Y5– PT 22+13.40	N 645,667.8149 E 2,472,040.8607	

REVISIONS

8/17/99

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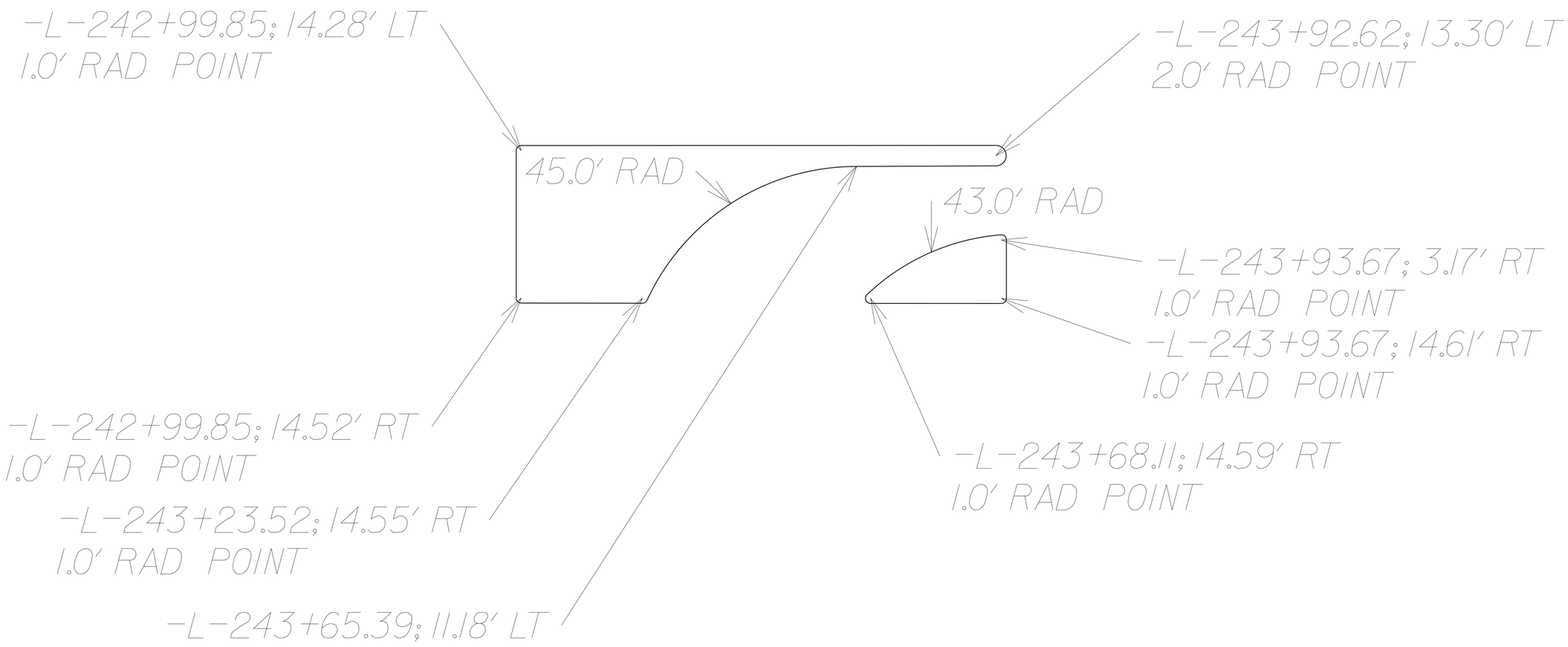
PROJECT REFERENCE NO.	SHEET NO.
W5702N	5

8/17/99

REVISIONS

MONOLITHIC CONCRETE ISLAND LAYOUT



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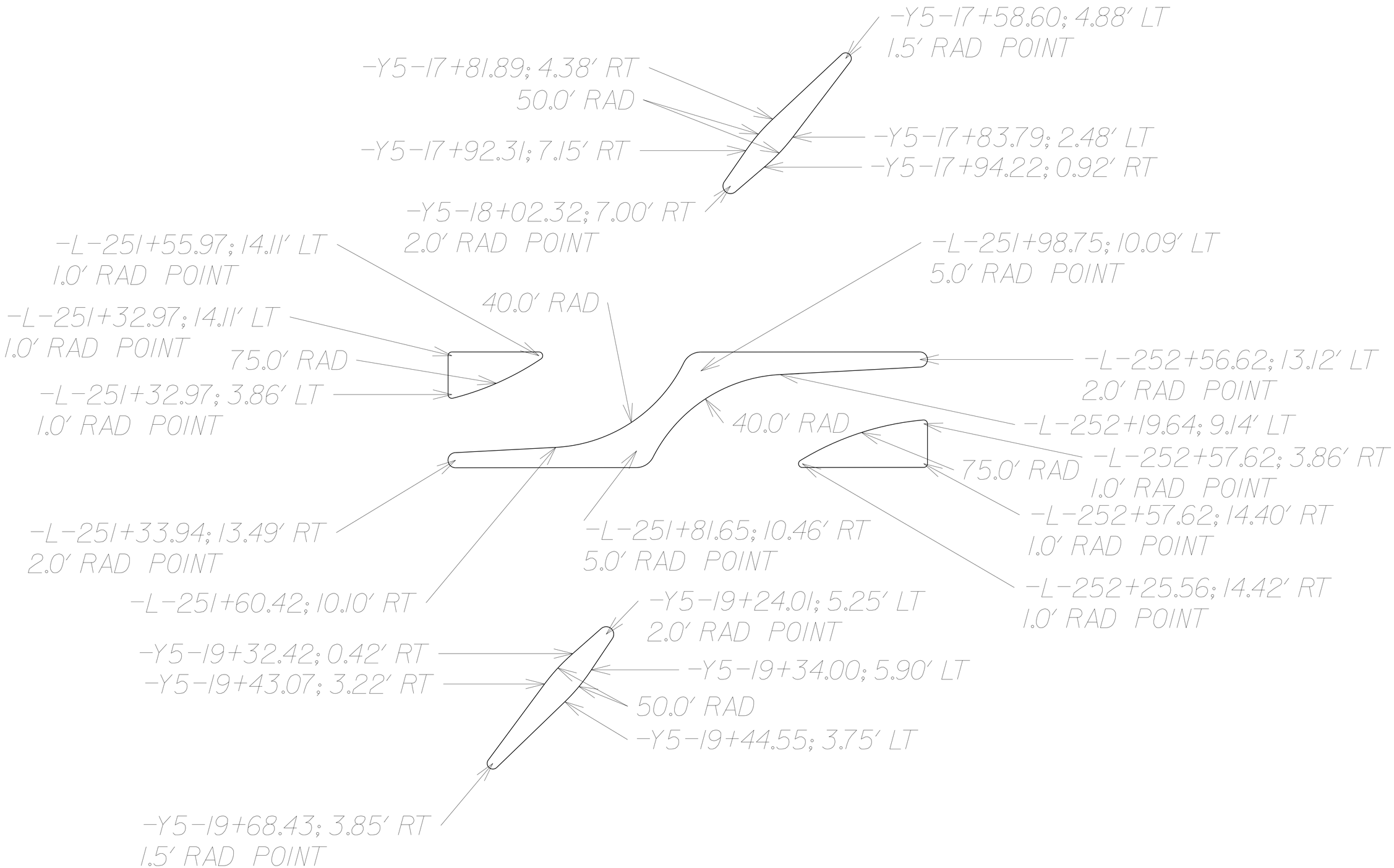
PROJECT REFERENCE NO.	SHEET NO.
W5702N	6

MONOLITHIC CONCRETE ISLAND LAYOUT



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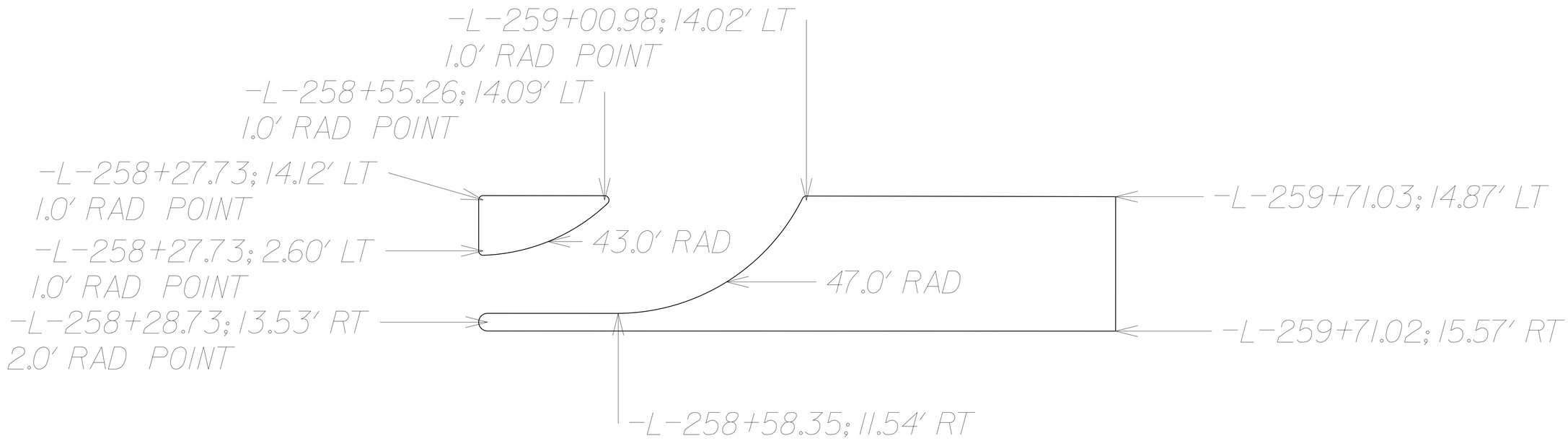
8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W5702N	7

MONOLITHIC CONCRETE ISLAND LAYOUT



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REVISIONS

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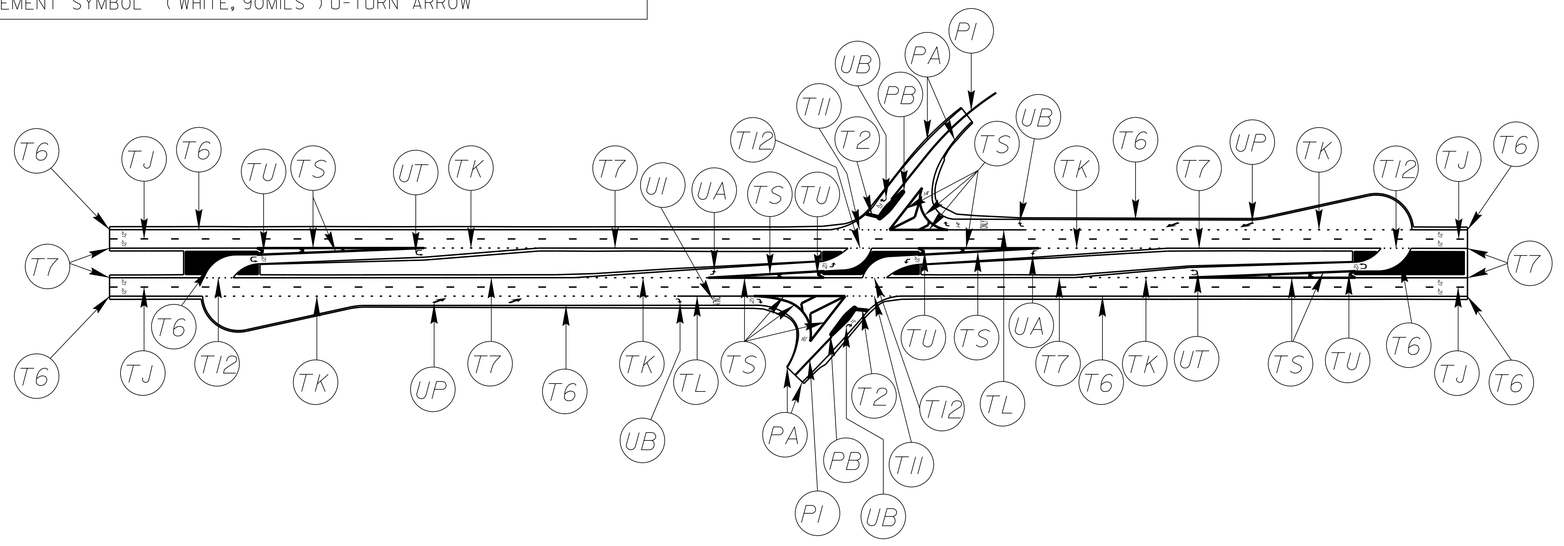
PROJECT REFERENCE NO.	SHEET NO.
W5702N	PMP1

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES AND SYMBOLS

PA - PAINT PAVEMENT MARKING (4" WHITE) SOLID EDGE LINE
PB - PAINT PAVEMENT MARKING (4" YELLOW) SOLID EDGE LINE
PI - PAINT PAVEMENT MARKING (4" YELLOW) SOLID DOUBLE LINE

TJ - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) 10'-30'/SP SKIP LINE
TK - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) 3'-9'/SP MINI SKIP LINE
TL - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) SOLID LANE LINE
TS - THERMOPLASTIC PAVEMENT MARKING (12" WHITE, 90MILS) SOLID GORE LINE
TU - THERMOPLASTIC PAVEMENT MARKING (12" WHITE, 90MILS) DIAGONAL LINE
T2 - THERMOPLASTIC PAVEMENT MARKING (24" WHITE, 90MILS) STOP BAR
T6 - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) SOLID EDGE LINE
T7 - THERMOPLASTIC PAVEMENT MARKING (6" YELLOW, 90MILS) SOLID EDGE LINE
TII - THERMOPLASTIC PAVEMENT MARKING (6" WHITE, 90MILS) 2'-6'/SP MINI SKIP LINE
TI2 - THERMOPLASTIC PAVEMENT MARKING (6" YELLOW, 90MILS) 2'-6'/SP MINI SKIP LINE
UA - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) LEFT ARROW
UB - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) RIGHT ARROW
UI - THERMOPLASTIC PAVEMENT MARKING CHARACTER (WHITE, 90MILS)
UP - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) MERGE ARROW
UT - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) U-TURN ARROW



NOTE

MARKINGS LINES ALONG -L- (NCII) ARE THERMOPLASTIC 6" WIDTHS

MARKING LINES ALONG -Y5- (SRII31) ARE PAINT 4" WIDTHS INCLUDING EDGE LINES AROUND RADIUS WHICH WILL TIE TO THE THERMOPLASTIC 6" ALONG -L- (NCII)

NOTE

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

FINAL SIGNAGE WILL BE PREFORMED BY NCDOT TRAFFIC SERVICES
CONTACT JEFFREY DUNNING AT 252-439-2950 FOR COORDINATION
PROVIDE A MINIMUM 2 WEEK NOTICE

REVISIONS

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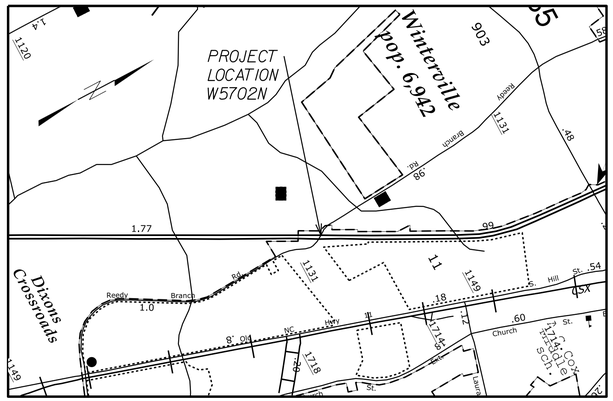
TIP PROJECT: W702N

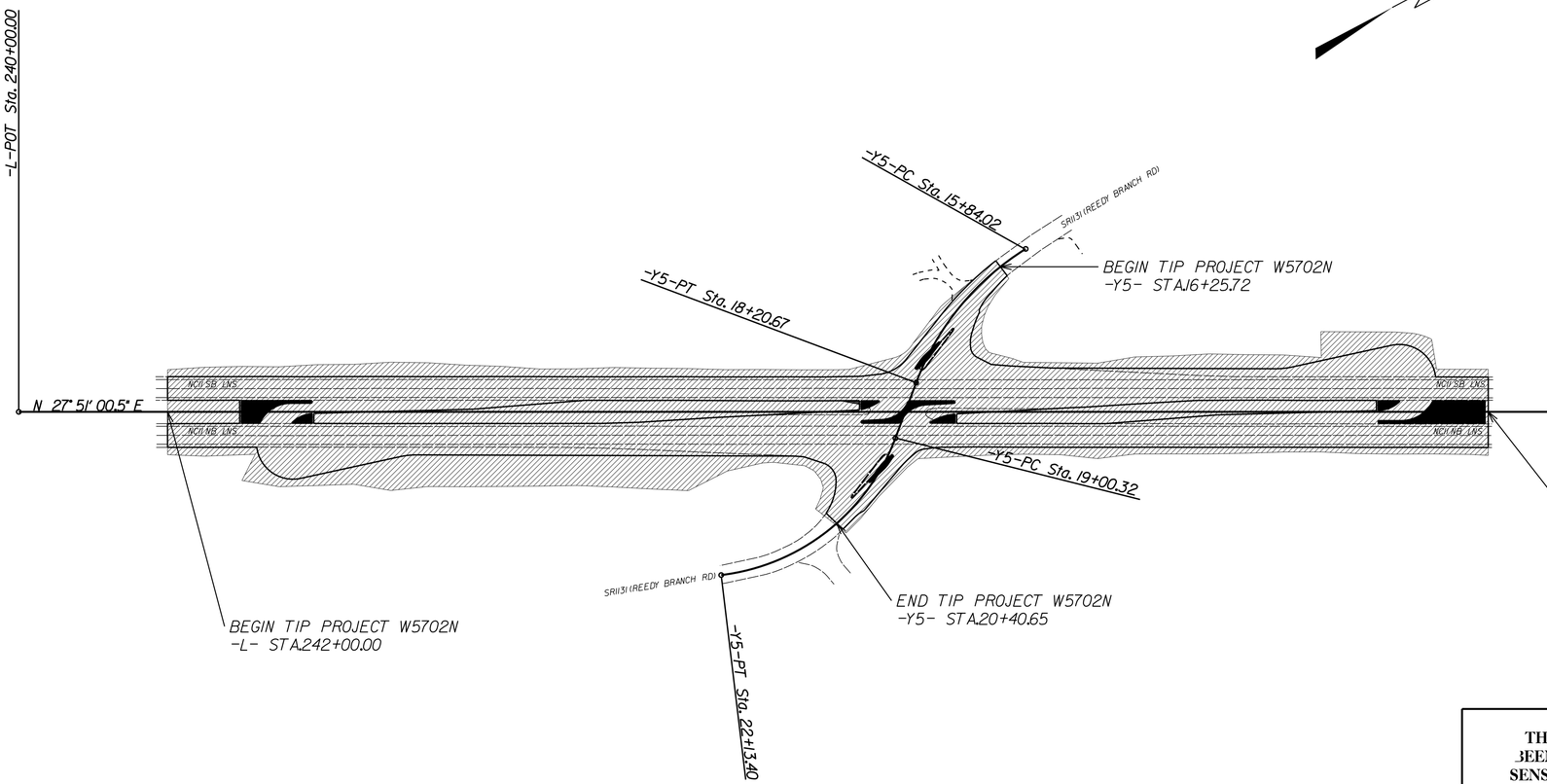


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W5702N	EC1	3

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44848.1.14	HSIP-0011(041)	PE
44848.2.14	HSIP-0011(041)	UTILITY
44848.3.14	HSIP-0011(041)	CONST



EROSION AND SEDIMENT CONTROL MEASURES

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

GRAPHIC SCALES

100 50 0 100 200
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 27834

2018 STANDARD SPECIFICATIONS

DESIGNED BY:

RICH GODLEY ***3559***

NAME *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

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

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

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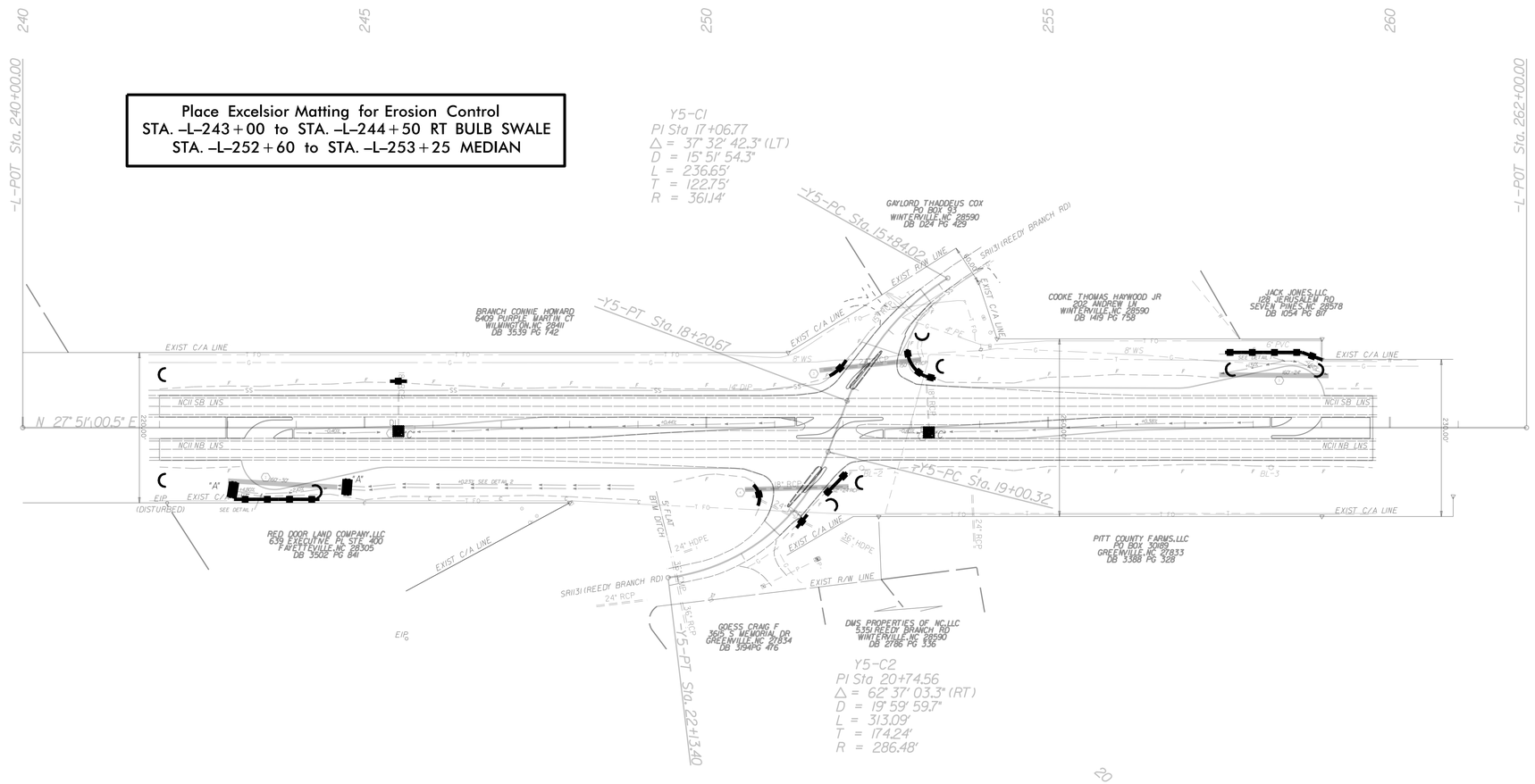
PROJECT REFERENCE NO.	SHEET NO.
W5702N	EC2

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	
1635.01	Temporary Rock Silt Check , Type "A"	
1632.03	Rock Inlet Sediment Trap , Type "C"	
	Coir Fiber Wattle	

REVISIONS 8/17/99

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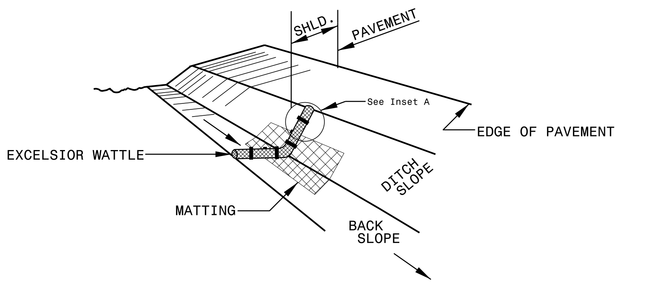
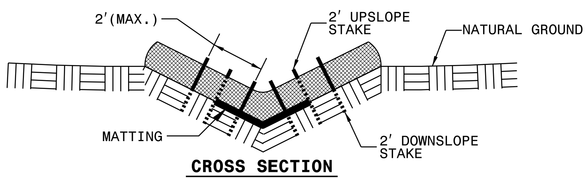
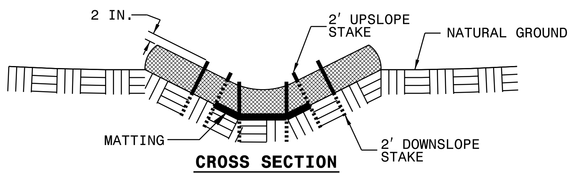
WATTLE DETAIL



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.

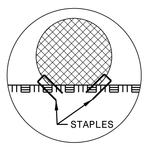
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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

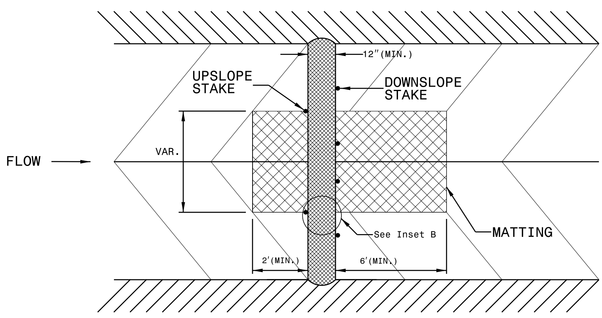
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

INSET A

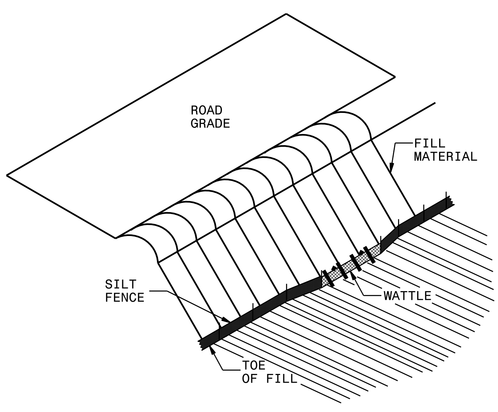


INSET B

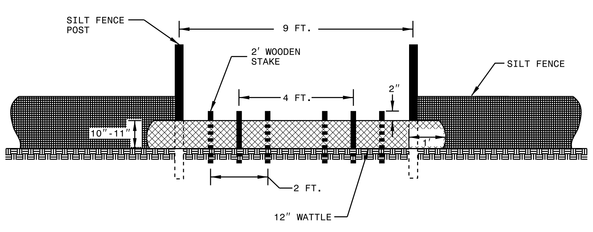


TOP VIEW

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

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

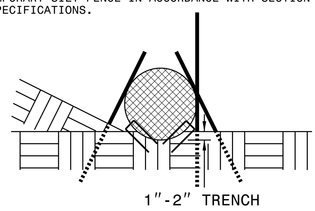
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

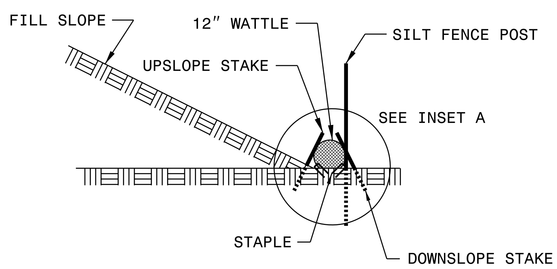
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A



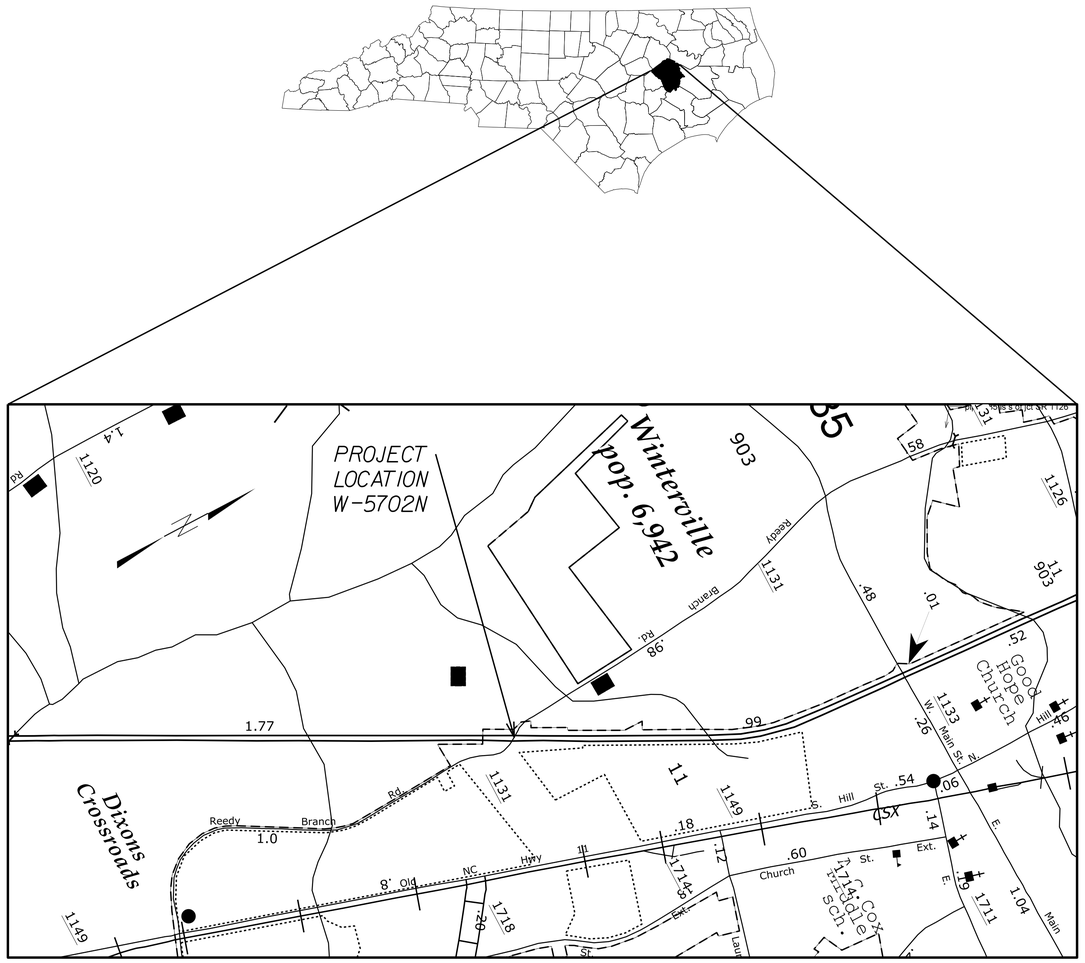


SIDE VIEW

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

PITT COUNTY



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET WITH VICINITY MAP & INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND.
TMP-2	PROJECT NOTES, DETOUR AND PLANS.

ROADWAY 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
1101.03 (SHT. 1 OF 9)	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES (TYPE III)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT.
- EXIST. PVMT.
- WORK AREA

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- DRUM

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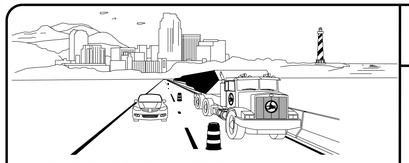

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1037 WH SMITH BLVD, GREENVILLE, NC 27834

JEFFREY D.CABANISS, PE	*TRAFFIC ENGINEER*
JEFFREY D.CABANISS, PE	*TRAFFIC CONTROL PROJECT ENGINEER*
RICH GODLEY	*TRAFFIC CONTROL PROJECT DESIGN ENGINEER*
RICH GODLEY	*TRAFFIC CONTROL DESIGN ENGINEER*

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

DocuSigned by: Jeffrey D. Cabaniss
APPROVED: 4/4/2019
DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS

SHEET NO.
TMP-1

W-5702N

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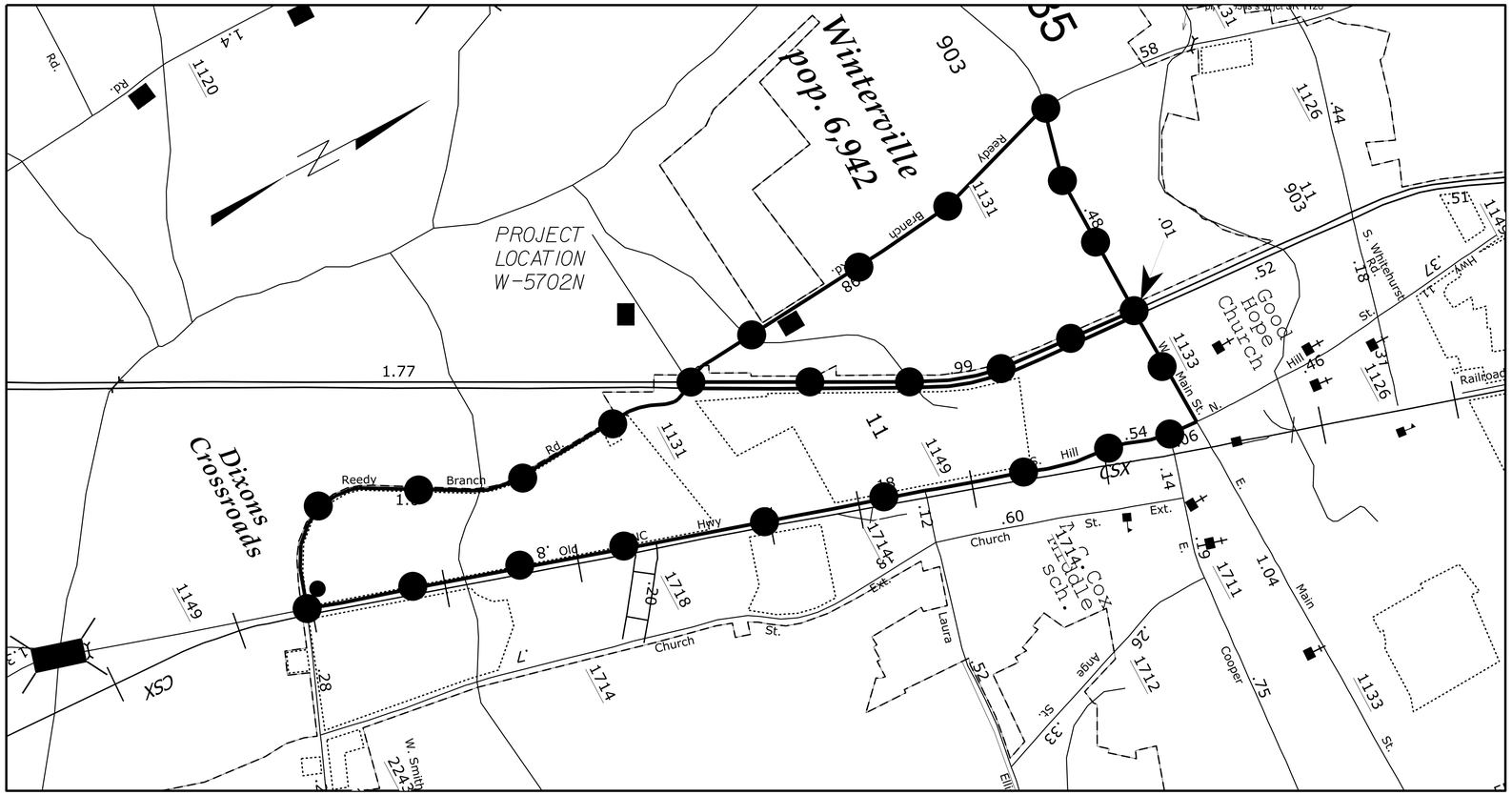
PROJ. REFERENCE NO.	SHEET NO.
W5702N	TMP-2



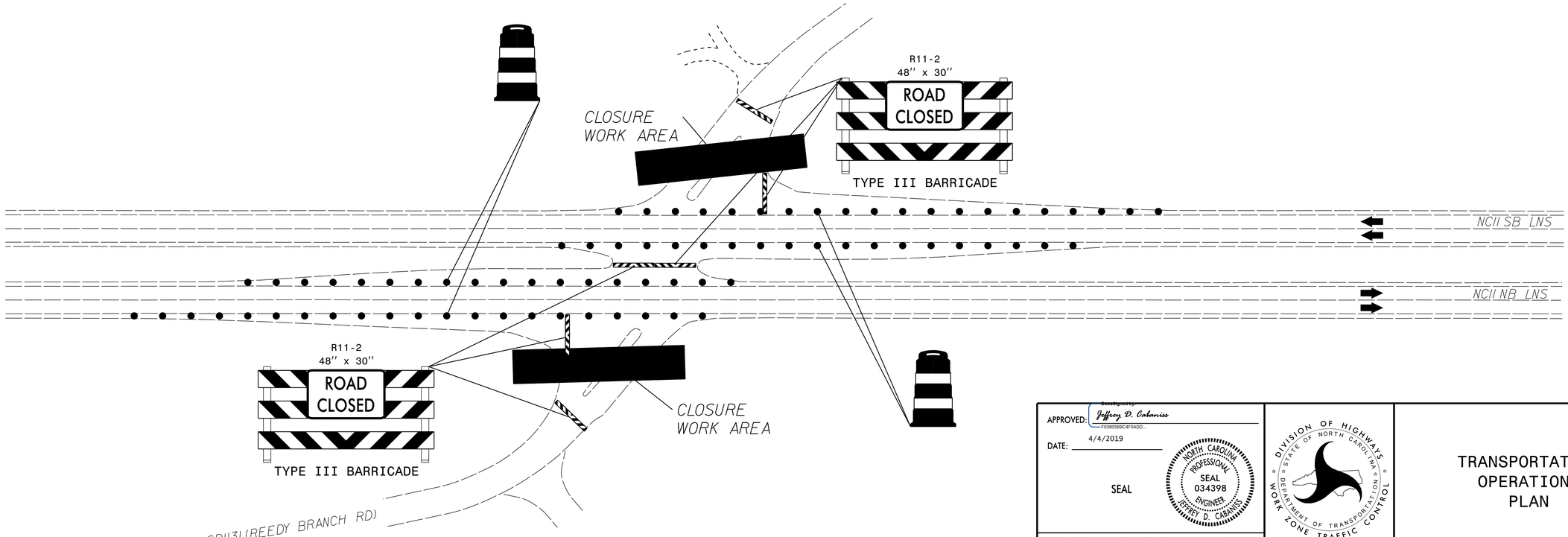
GENERAL NOTES

IMPLEMENT TRAFFIC CONTROL IN ACCORDANCE WITH THE ROADWAY STANDARD DRAWINGS LISTED ON TMP-1.

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.

STATE FORCES WILL INSTALL AND MAINTAIN THE PROJECT DETOUR

CALL JEFFREY DUNNING AT 252-439-2950 FOR COORDINATION.
PROVIDE A 2 WEEK MININMUM NOTICE.



APPROVED: Jeffrey D. Cabaniss
F03805B9C4F54DD...

DATE: 4/4/2019

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D CABANISS

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

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5/9/06

PROJECT REFERENCE NO.	SHEET NO.
W5702N	X1A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS–SECTION SUMMARY

IN CUBIC YARDS

LOCATION (–L–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
242 + 50.00	0		0
242 + 96.85	2		30
243 + 00.00	0		9
243 + 19.89	1		101
243 + 50.00	4		169
243 + 78.99	9		173
243 + 96.67	6		101
244 + 00.00	1		19
244 + 50.00	14		273
245 + 00.00	56		218
245 + 12.81	21		39
245 + 34.48	21		55
245 + 50.00	13		37
246 + 00.00	54		116
246 + 11.15	12		24
246 + 50.00	43		80
247 + 00.00	58		99
247 + 50.00	48		105
247 + 61.15	8		25
248 + 00.00	24		84
248 + 50.00	58		108
249 + 00.00	66		111
249 + 50.00	27		83
249 + 82.49	1		28
250 + 00.00	1		11
250 + 42.13	2		20
250 + 50.00	0		3
250 + 82.91	2		12

LOCATION (–L–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
251 + 00.00	2		5
251 + 29.97	4		7
252 + 50.00	0		0
252 + 60.62	1		4
253 + 00.00	3		21
253 + 50.00	3		35
253 + 89.71	1		25
254 + 00.00	0		5
254 + 14.54	0		7
254 + 50.00	0		17
254 + 61.73	0		6
255 + 00.00	4		24
255 + 50.00	6		44
256 + 00.00	8		55
256 + 11.13	3		15
256 + 50.00	9		51
256 + 89.59	9		47
257 + 00.00	3		12
257 + 11.25	3		15
257 + 50.00	10		119
258 + 00.00	12		232
258 + 24.75	5		114
258 + 45.07	4		96
258 + 50.00	1		24
259 + 00.00	11		246
259 + 04.24	0		12
259 + 50.00	3		39
259 + 75.00	0		0

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

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

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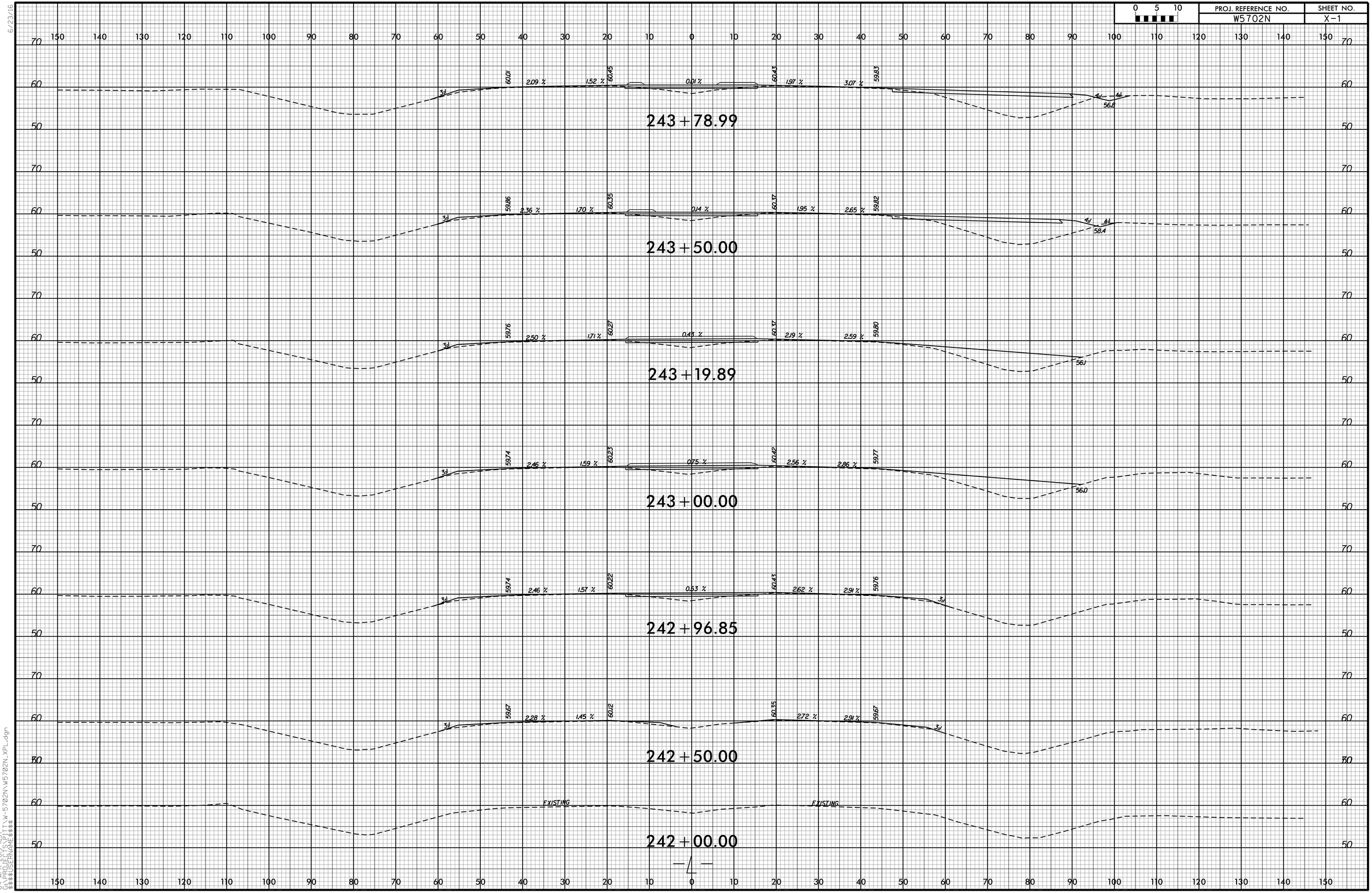
	W5702N	X-1



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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
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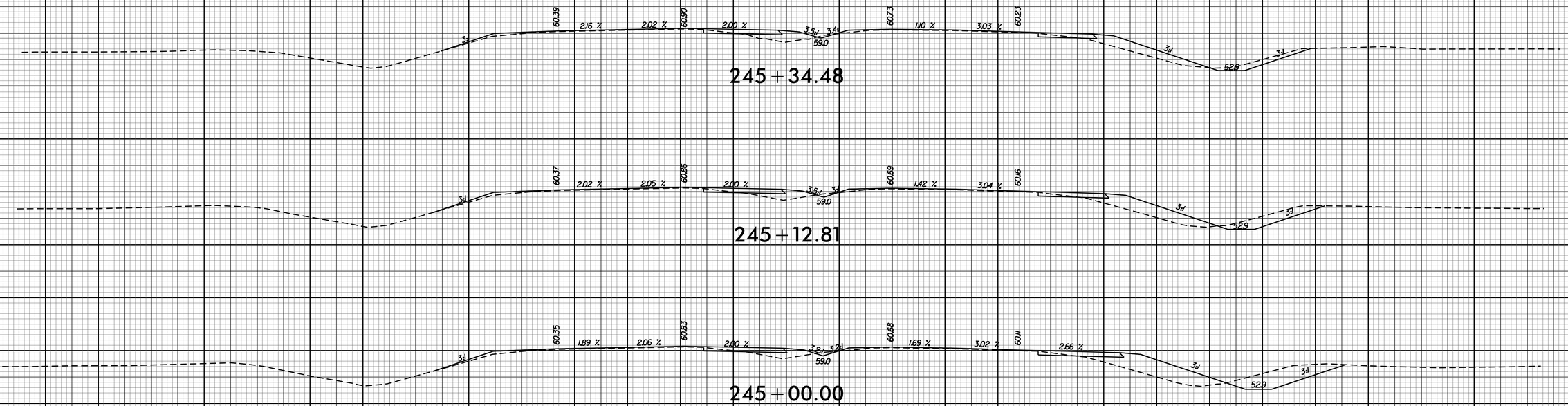

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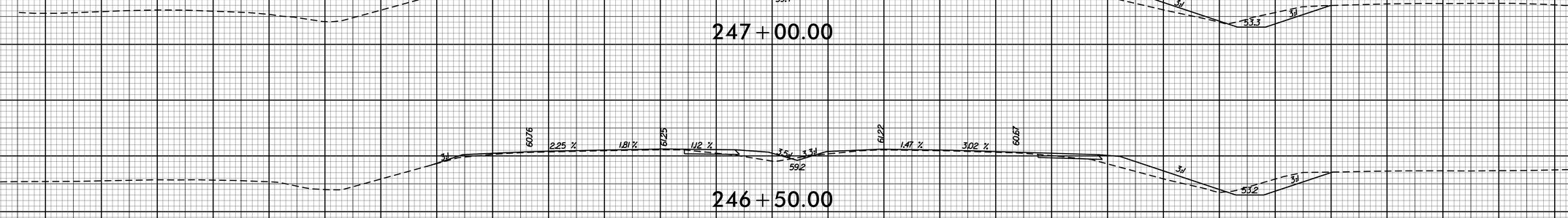
70 60 50

247+50.00



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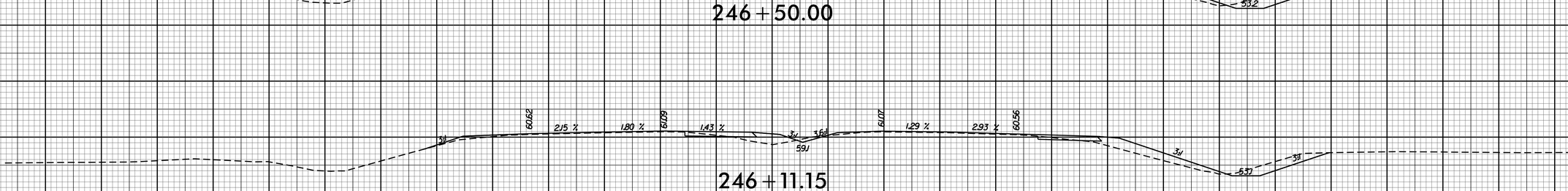
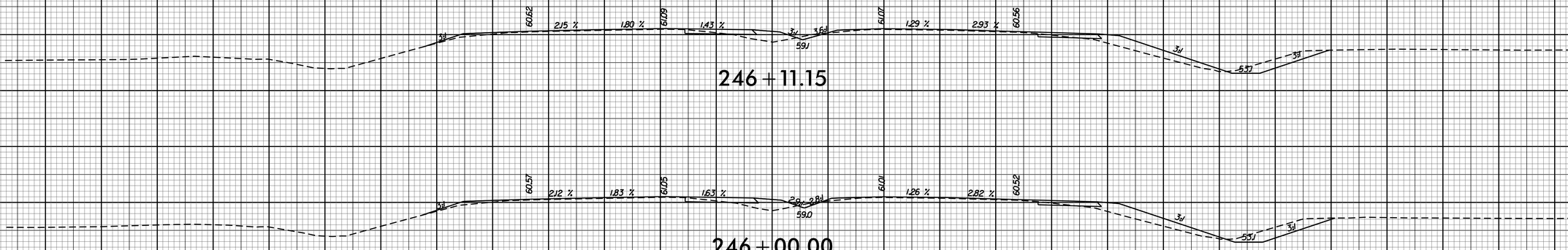
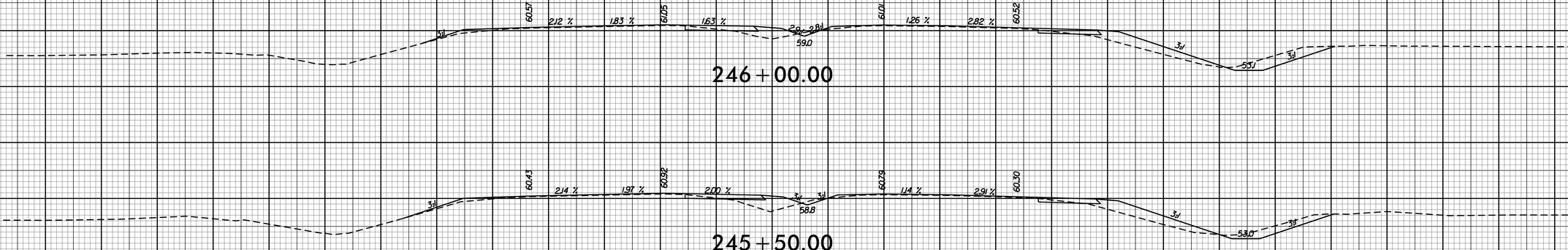


246+50.00



246+11.15



246+00.00

245+50.00

6/23/16

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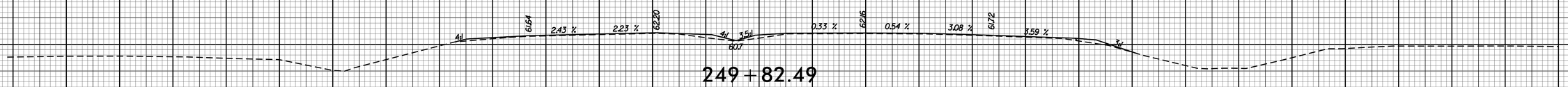
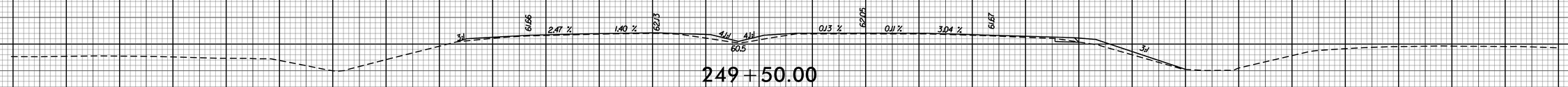
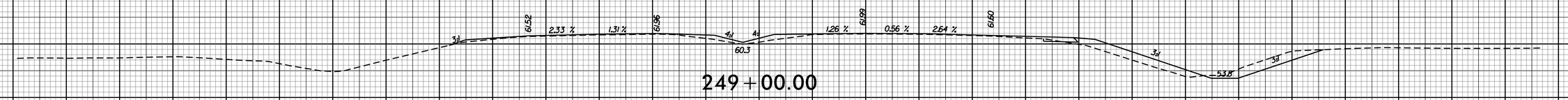
70 60 50



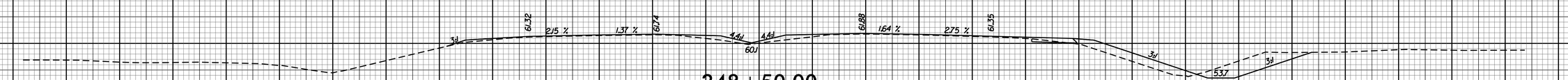
249+82.49



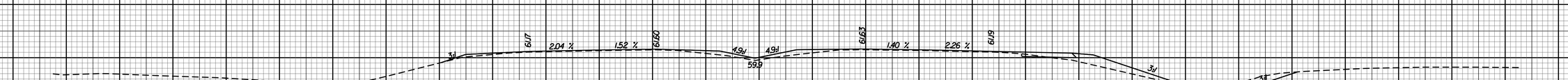
249+50.00



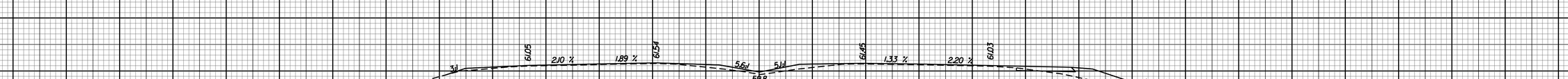
249+00.00



248+50.00



248+00.00



247+61.15

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
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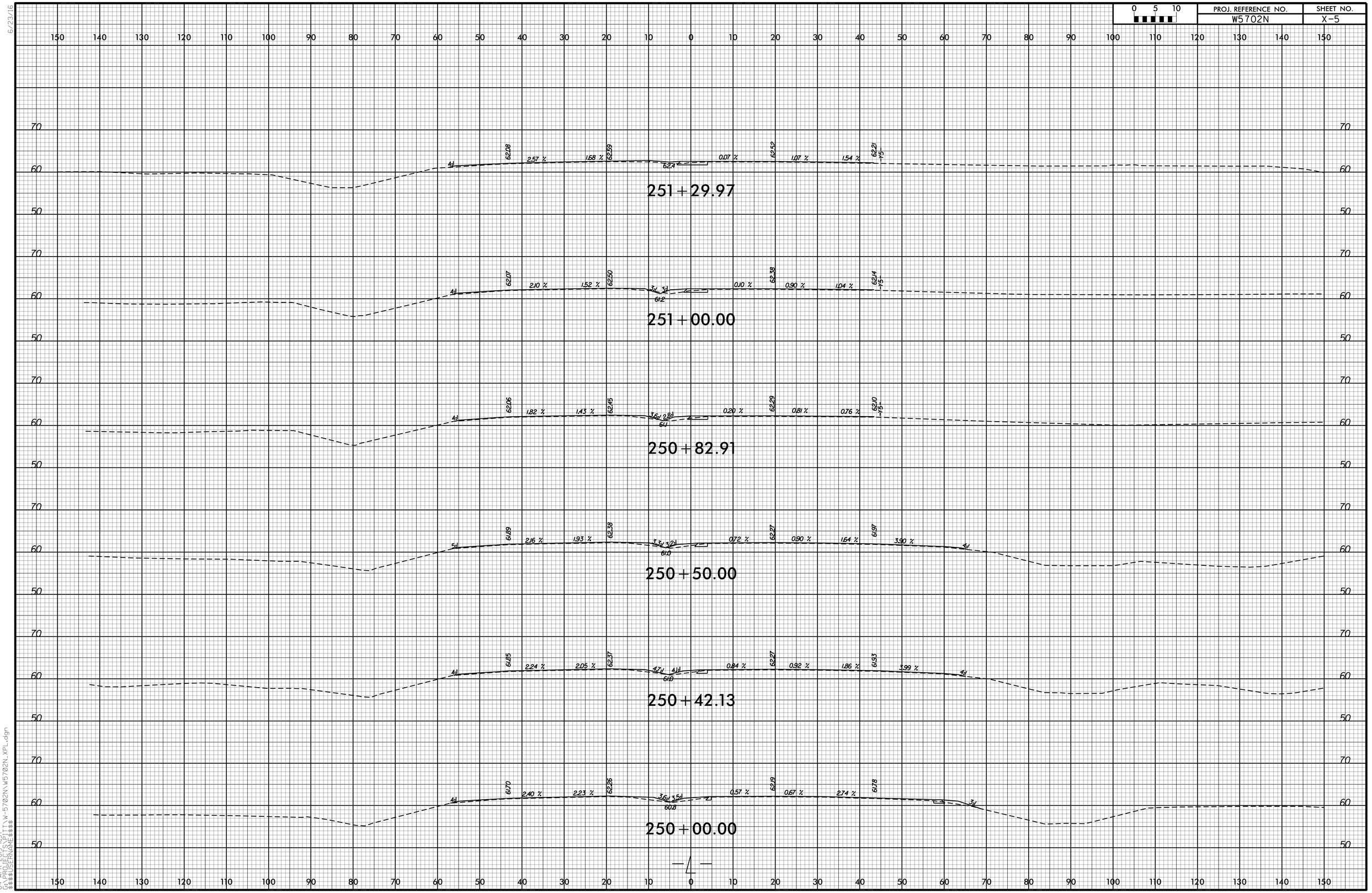

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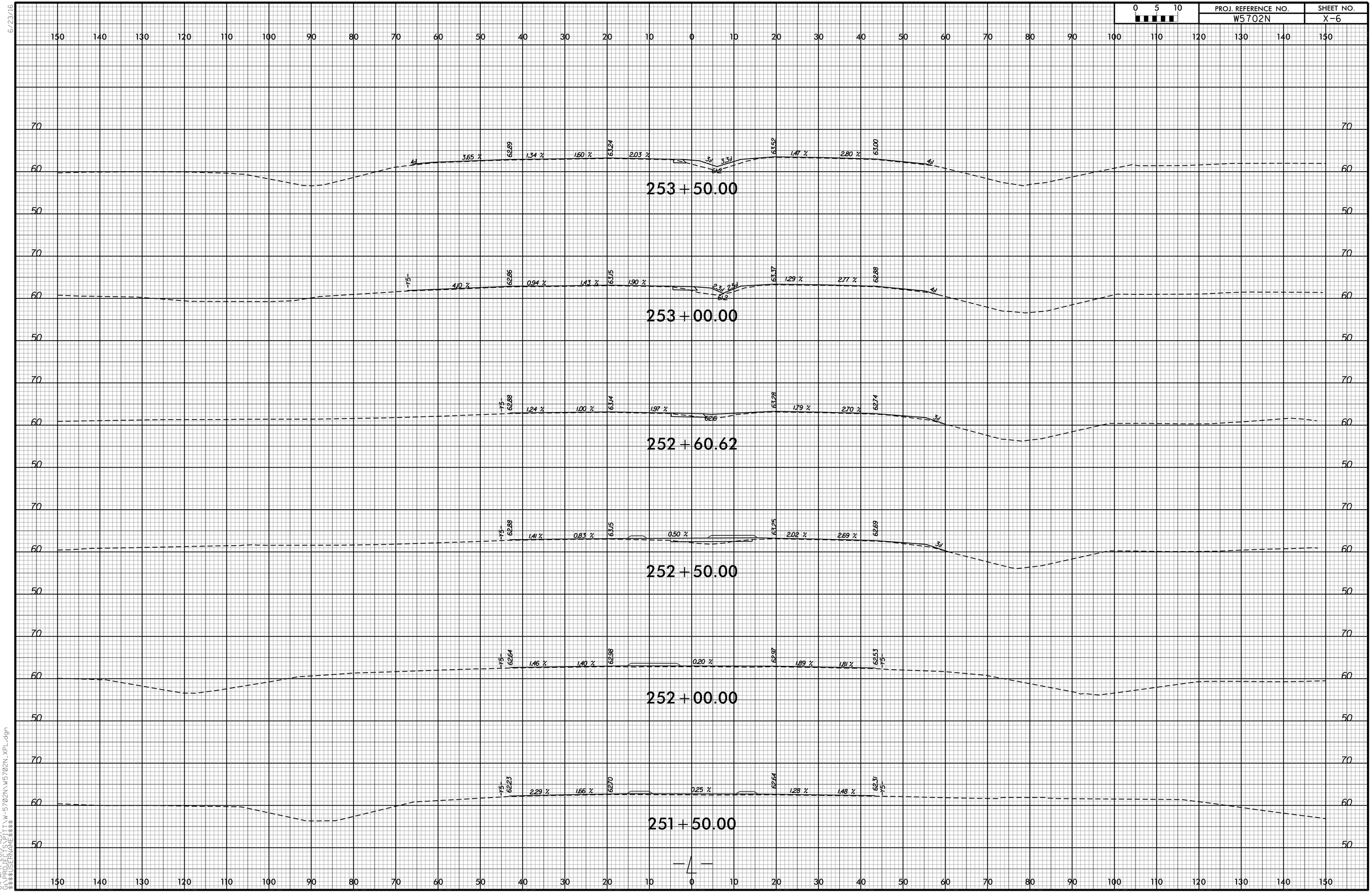

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W5702N	X-7

255+00.00

3:1 2.84 % 6.39 1.79 % 1.41 % 6.378 0.22 % 3.5% 3:1 6.18 2.00 % 6.388 1.54 % 2.32 % 6.42 4:1

254+61.73

3:1 3.18 % 6.527 1.56 % 1.54 % 6.364 0.46 % 3.6% 4.9% 6.16 6.373 1.59 % 2.03 % 6.30 4:1

254+50.00

3:1 3.44 % 6.24 1.39 % 1.64 % 6.361 0.62 % 4:1 4.1% 6.16 6.371 1.63 % 2.09 % 6.26 4:1

254+14.54

4:1 3.51 % 6.312 1.26 % 1.81 % 6.350 1.28 % 4.1% 4.3% 6.14 6.366 1.68 % 2.34 % 6.317 4:1

254+00.00

4:1 3.31 % 6.305 1.36 % 1.96 % 6.345 1.60 % 4.1% 4.2% 6.14 6.364 1.88 % 2.46 % 6.314 4:1

253+89.71

4:1 3.19 % 6.300 1.43 % 2.01 % 6.341 1.81 % 4:1 4:1 6.14 6.364 1.67 % 2.55 % 6.313 4:1

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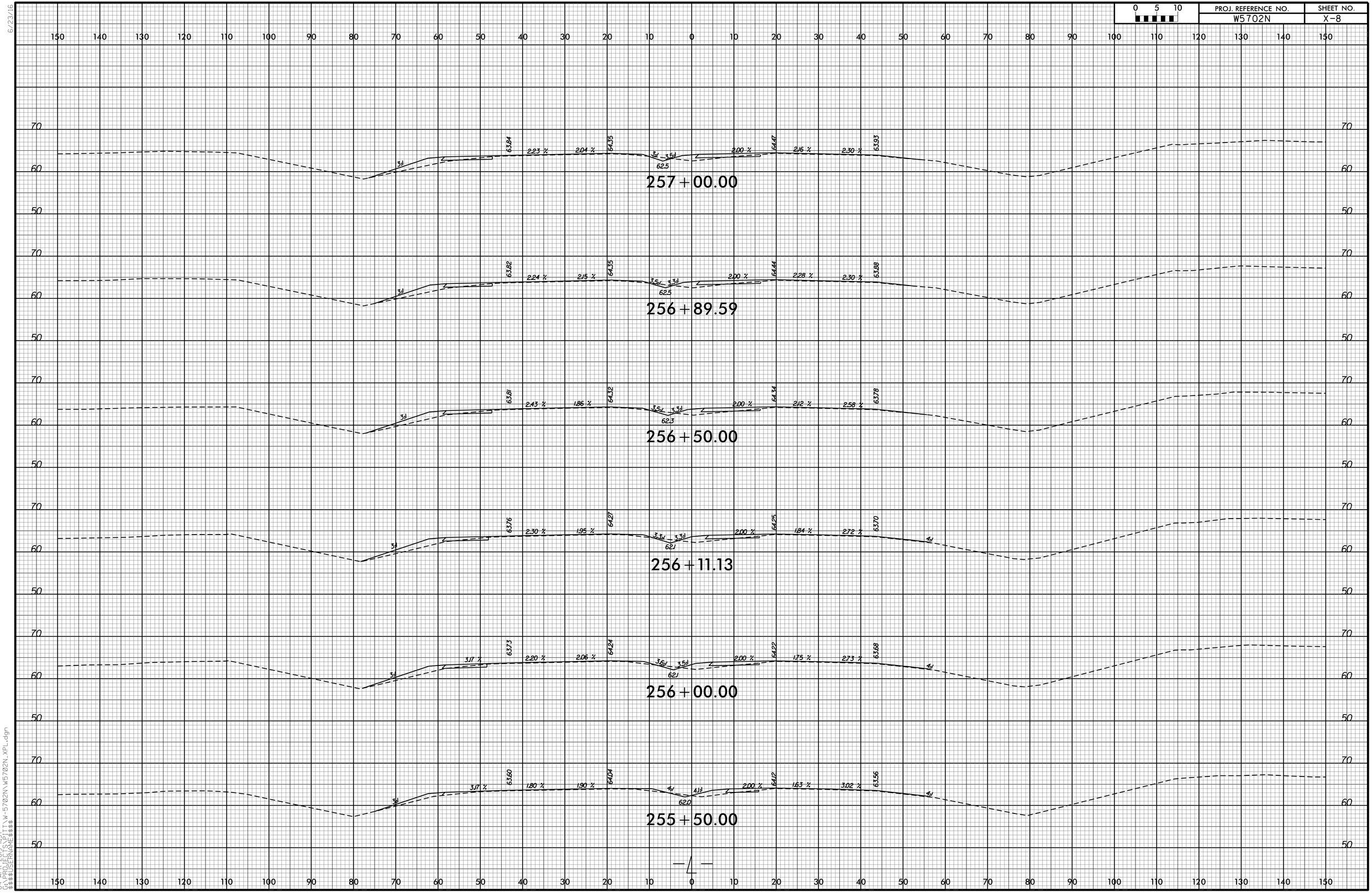
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W5702N	X-8



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PROJ. REFERENCE NO.	SHEET NO.
W5702N	X-9

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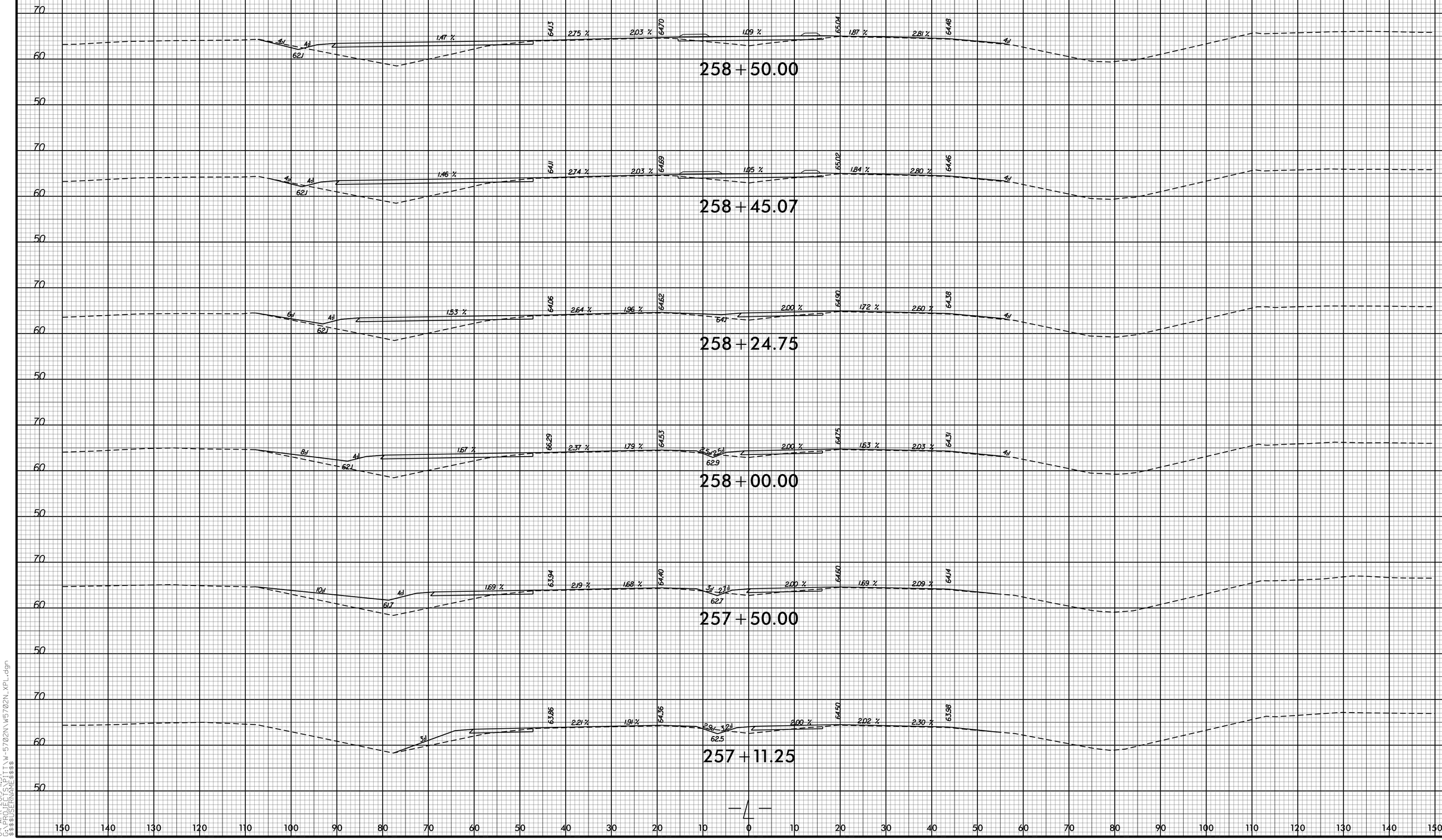
70 60 50



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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W5702N	X-10

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

70 60 50

EXISTING EXISTING

259+75.00

70 60 50

6451 277 % 2.09 % 6510 0.33 % 6521 1.95 % 2.11 % 6471

3d 4d

259+50.00

70 60 50

6432 2.73 % 2.07 % 6490 0.96 % 6520 2.00 % 2.43 % 6486

3d 4d

259+04.24

70 60 50

18d 62.0 4d 1.71 % 6430 2.74 % 2.06 % 6488 1.01 % 6520 2.02 % 2.51 % 6465

4d

259+00.00

70 60 50

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

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