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09/08/99

NOTE: REBID FROM JUNE 2015 LETTING. REVISED SHEET 5 AND ADDED SHEET 17A.

TIP PROJECT: W-5202K

CONTRACT: DB00293

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5202K	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
45332.1.11	HSIP-0011(30)	PE
45332.3.11	HSIP-0011(30)	CONST

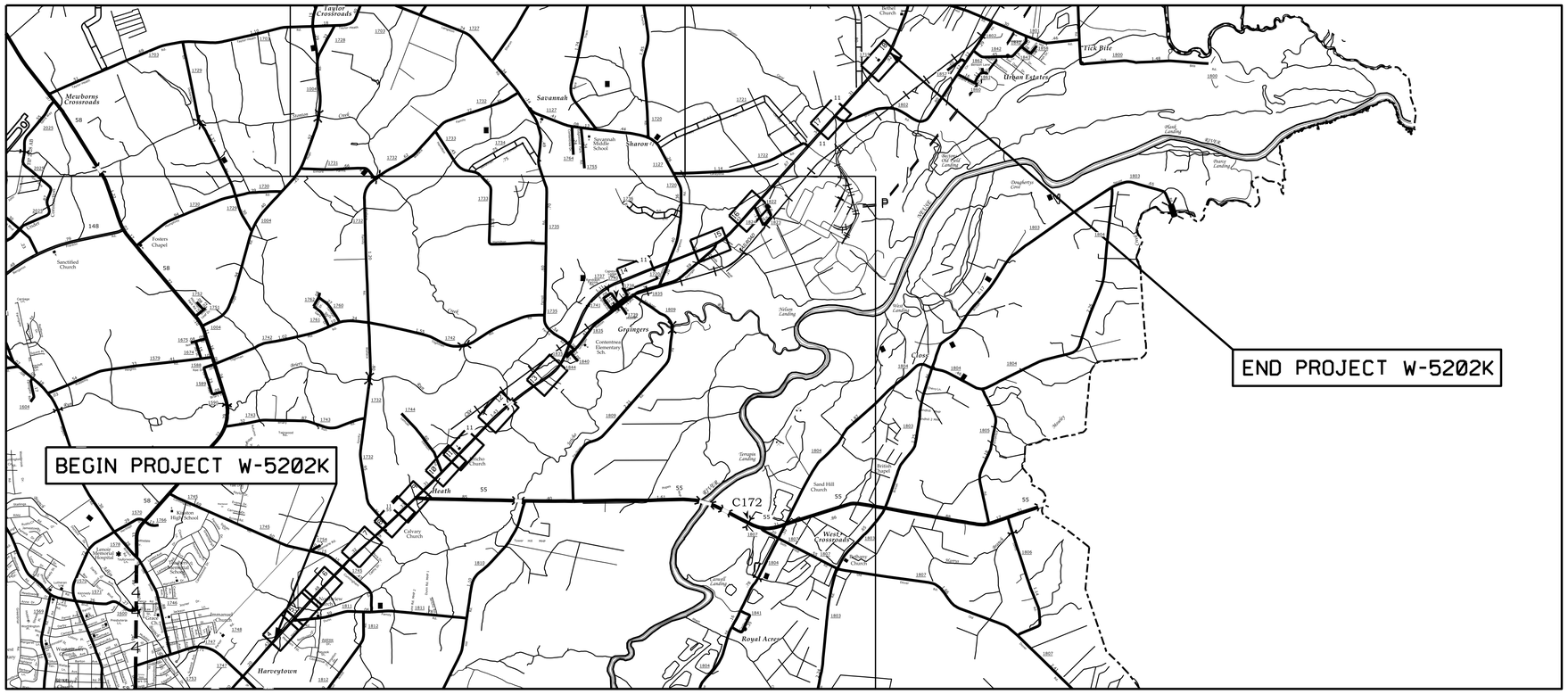
LENOIR COUNTY

NC GRID
NAD 83 NA 2011

LOCATION: NC 11 SOUTH OF MEWBORN RD TO NORTH OF ODHAM RD

TYPE OF WORK: ADD ADDITIONAL LEFT TURN LANES
WIDENING, GRADING, DRAINAGE, PAVING

See Sheet 1-A For Index of Sheets



GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT =
ADT =
DHV = %
D = %
T = % *
V = MPH
* TTST = DUAL
FUNC CLASS =

TIER

PROJECT LENGTH

TOTAL LENGTH TIP PROJECT W-5202K = 7.22 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1704 N. Greene St., Greenville, NC 27834

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
JUNE 2016

WILLIAM KINCANNON
PROJECT ENGINEER

LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 33793 ENGINEER WILLIAM C. KINCANNON

DocuSigned by: William C Kincannon
SIGNATURE: P.E. 5/24/2016 | 3:32 PM ET

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 33793 ENGINEER WILLIAM C. KINCANNON

DocuSigned by: William C Kincannon
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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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PROJECT REFERENCE NO.	SHEET NO.
W-5202K	1A

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C	STANDARD DRAWING
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF DRAINAGE QUANTITIES AND EARTHWORK
4-18	PLAN SHEET
EC1- EC17	EROSION CONTROL SHEETS
PM 1	PAVEMENT MARKINGS
X1A-X2A	CROSS-SECTION SUMMARY
X1-15	CROSS-SECTIONS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11/01/11

GRADING AND SURFACING OR RESURFACING AND WIDENING:

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

CLEARING:

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

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

2012 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, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
225.01	Guide for Grading Subgrade - Interstate and Freeway

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04/06/15

PROJECT REFERENCE NO.	SHEET NO.
W-5202K	1B

Note: Not to Scale

****S.U.E. = Subsurface Utility Engineering***

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- 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 Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

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:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

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.*) — 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

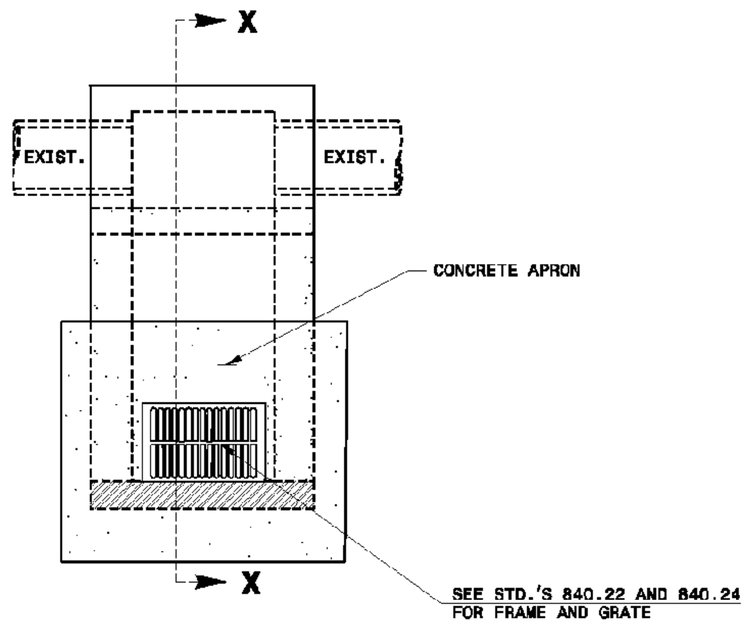
SANITARY SEWER:

- 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

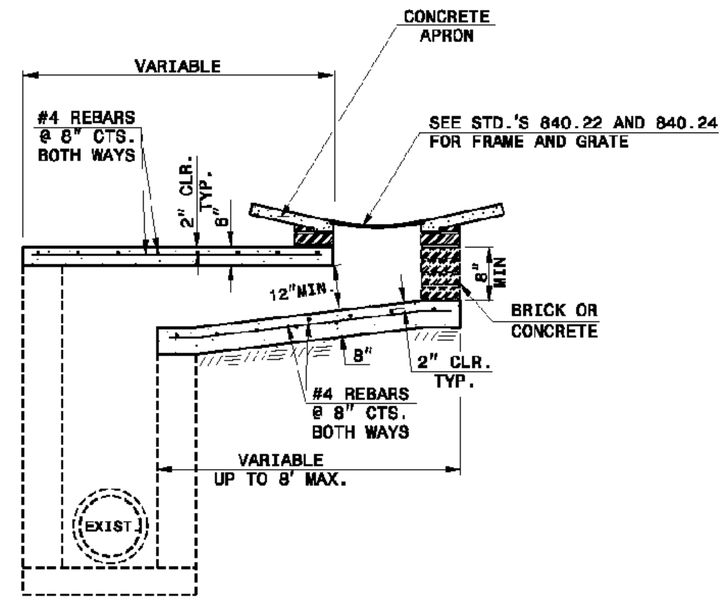
MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — 2UTL
- 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.

PROJECT REFERENCE NO.	SHEET NO.
W-5202K	1C



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

REVISIONS

8/17/99

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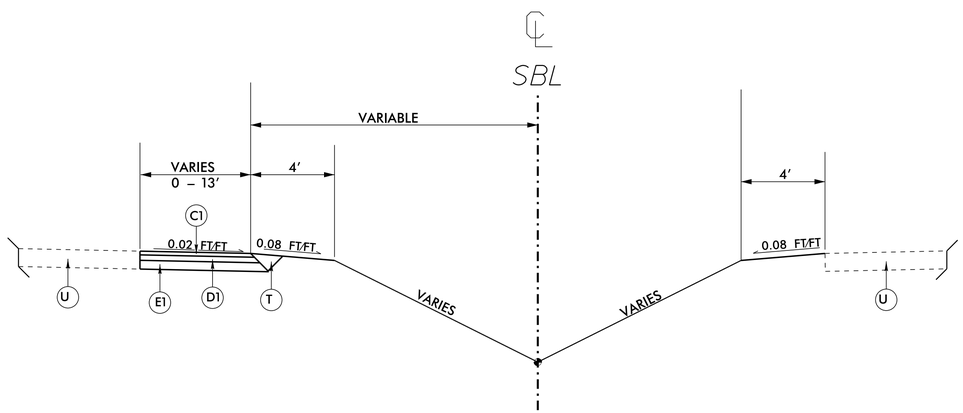
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 33793 ENGINEER WILLIAM C. KINCANNON 5/24/2016 — DocuSigned by: William C. Kincannon

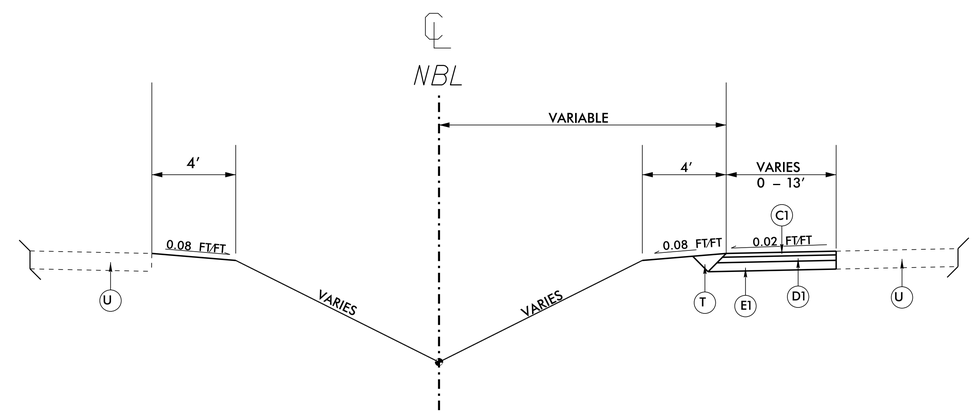
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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



USE TYPICAL SECTION #1 (NTS)

-L- STA 42+06.49 TO STA 46+06.49
-L- STA 85+51.69 TO STA 89+51.69
-L- STA 95+56.04 TO STA 99+56.04
-L- STA 119+04.83 TO STA 123+04.83
-L- STA 128+81.78 TO STA 132+81.78
-L- STA 151+50.45 TO STA 155+50.45
-L- STA 177+97.44 TO STA 181+97.44
-L- STA 244+85.02 TO STA 248+85.02
-L- STA 390+12.10 TO STA 394+12.10



USE TYPICAL SECTION #2 (NTS)

-L- STA 14+57.88 TO STA 18+57.88
-L- STA 21+86.48 TO STA 25+86.48
-L- STA 68+96.43 TO STA 72+96.43
-L- STA 90+87.52 TO STA 94+87.52
-L- STA 98+31.51 TO STA 102+31.51
-L- STA 240+19.27 TO STA 244+19.27
-L- STA 276+98.12 TO STA 280+98.12
-L- STA 300+32.16 TO STA 304+32.16
-L- STA 353+87.81 TO STA 357+87.81
-L- STA 385+43.42 TO STA 389+43.41

REVISED 05/19/2016 REMOVE NBL -L- STA 28+17.71 TO STA 32+17.71 AND SBL -L- STA 32+97.85 TO 36+97.85 EXCLUDING TWO TURNING LANES FROM PROJECT

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PROJECT REFERENCE NO.	SHEET NO.
W-5202K	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
226	100	CY	UNDERCUT EXCAVATION
300	10	TON	FOUNDATION CONDITIONING MATERIAL,MINNOR STRUCTURES
300	30	SY	FOUNDATION CONDITIONING GEOTEXTILE
310	32	LF	12" RC PIPE CULVERTS,CLASS III
310	48	LF	15" RC PIPE CULVERTS,CLASS III
610	2470	TON	ASPHALT CONCRETE BASE COURSE,TYPE B25.0B
610	1375	TON	ASPHALT CONCRETE INTERMEDIATE COURSE,TYPE I19.0B
610	690	TON	ASPHALT CONCRETE SURFACE COURSE,TYPE S9.5B
620	215	TON	ASPHALT BINDER FOR PLANT MIX,GRADE PG64-22
840	16	EA	FRAMES WTH TWO GRATES,STD.840.22
SP	16	EA	CONVERT EXISTING DI TO (OFFSET DROP INLET)
840	2	EA	MASONRY DRAINAGE STRUCTURES
840	2	EA	FRAME WITH GRATE,STD.840.16
840	3	CY	PIPE COLLARS
1105	1	LS	TEMPORARY TRAFFIC CONTROL
1205	8450	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4",90 MILS)
1205	3900	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4",120 MILS)
1205	38	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
1610	20	TON	SEDIMENT CONTROL STONE
1620	300	LB	SEED FOR TEMPORARY SEEDING
1620	1.5	TON	FERTILIZER FOR TEMPORARY SEEDING
SP	4	EA	RESPONSE FOR EROSION CONTROL
1632	800	LF	1/4" HARDWARE CLOTH
1661	50	LB	SEED FOR REPAIR SEEDING
1661	.2	TON	FERTILIZER FOR REPAIR SEEDING
1660	6	ACRE	SEEDING AND MULCHING
SP	800	LF	WATTLE
SP	25	LB	POLYACRYLAMIDE (PAM)

REVISIONS

REVISED 05-19-16 TO REMOVE THE CROSSOVER AT 32+50 AND THE TURN LANES AND CROSSOVER AT 375+00.

8/17/99

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COMPUTED BY: JW DATE:
CHECKED BY: LJ DATE:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
W-5202K	3A

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

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

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"–48" / DO NOT USE RCP, CSP, CAAP, HDPE	CORRUGATED ALUMINUM PIPE 12"–48" (.064, .064, .064, .064, .079, .109, .109)	R.C. PIPE (CLASS III) 12"	R.C. PIPE (CLASS III) 15"	R.C. PIPE (CLASS III) 18"	R.C. PIPE (CLASS III) 24"	R.C. PIPE (CLASS III) 30"	R.C. PIPE (CLASS III) 36"	R.C. PIPE (CLASS III) 42"	R.C. PIPE (CLASS IV) 12"–48"	*** R. C. PIPE (CLASS V)	*** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	*** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	ENDWALLS CU. YDS. C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION CATCH BASIN	CONCRETE TRANSITIONAL SECTION DROP INLET	SEE PSH 1C FOR STANDARD ON OFFSET DROP INLET	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.16	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	T.B.D.I. STD. 840.35	CONCRETE ENDWALL FOR SINGLE PIPE CULVERTS 15" – 48" PIPE 60 DEGREE OR 120 DEGREE SKEW STD 838d02s1	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
–L– 17+55.79	LT	1		71.85																														1	1								
–L– 25+13.00	LT	2		66.15																														1	1								
SEE REMARKS	LT	3																																									REVISED AND REMOVED
SEE REMARKS	RT	4																																									REVISED AND REMOVED
–L– 42+69.00	RT	5		68.81																														1	1								
–L– 72+75.00	LT	6		53.16																														1	1								
–L– 86+11.00	RT	7		62.97																														1	1								
–L– 88+81.00	CL	8		63.22																														1	1								
–L– 94+26.00	LT	9		64.08																														1	1								
–L– 95+94.00	RT	10		62.88																														1	1								
–L– 99+72.00	LT	11		60.55																														1	1								
–L– 101+44.00	LT	12		57.22																														1	1								
–L– 153+70.00	RT	13		37.36																														1	1								
–L– 179+15.00	RT	14		55.90																														1	1								
–L– 240+75.00	LT	15		71.73																														1	1								
–L– 303+73.00	LT	16		35.23																														1	1								
–L– 357+66.00	LT	17		29.86																														1	1								
–L– 372+75.00	CL	17A		33.50																														1	1								
–L– 119+20.27	RT	18			70.54																																						
–L– 119+50.00	RT	18A		72.26	70.60																				1											1							
–L– 119+50.00	RT	18A	18		70.60	70.54				32																																	
–L– 389+00.00	LT	19			38.30	38.20					24																																
–L– 390+28.89	LT	20			39.02																																						
–L– 390+50.00	RT	20A		40.86	39.09																				1											1							
–L– 390+50.00	RT	20A	20		39.09	39.02					24																																
TOTALS										32	48														2									16	16	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	UNDERCUT	EMBT+%	BORROW	WASTE
–L– 14+57.88 – 394+12.11	1878	0	3524	1646	0
UNDERCUT CONTINGENCY		100	120	120	100
SUB TOTAL	1878	100	3644	1766	100
SAY	1880	100	3645	1770	100

PAVEMENT REMOVAL SUMMARY
IN SQUARE YARDS

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
–L–	31+50.00 – 33+50.00	CL	400
–L–	370+00.00 – 378+00.00	CL	1022
TOTAL			1426
SAY			1430

NOTE:

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

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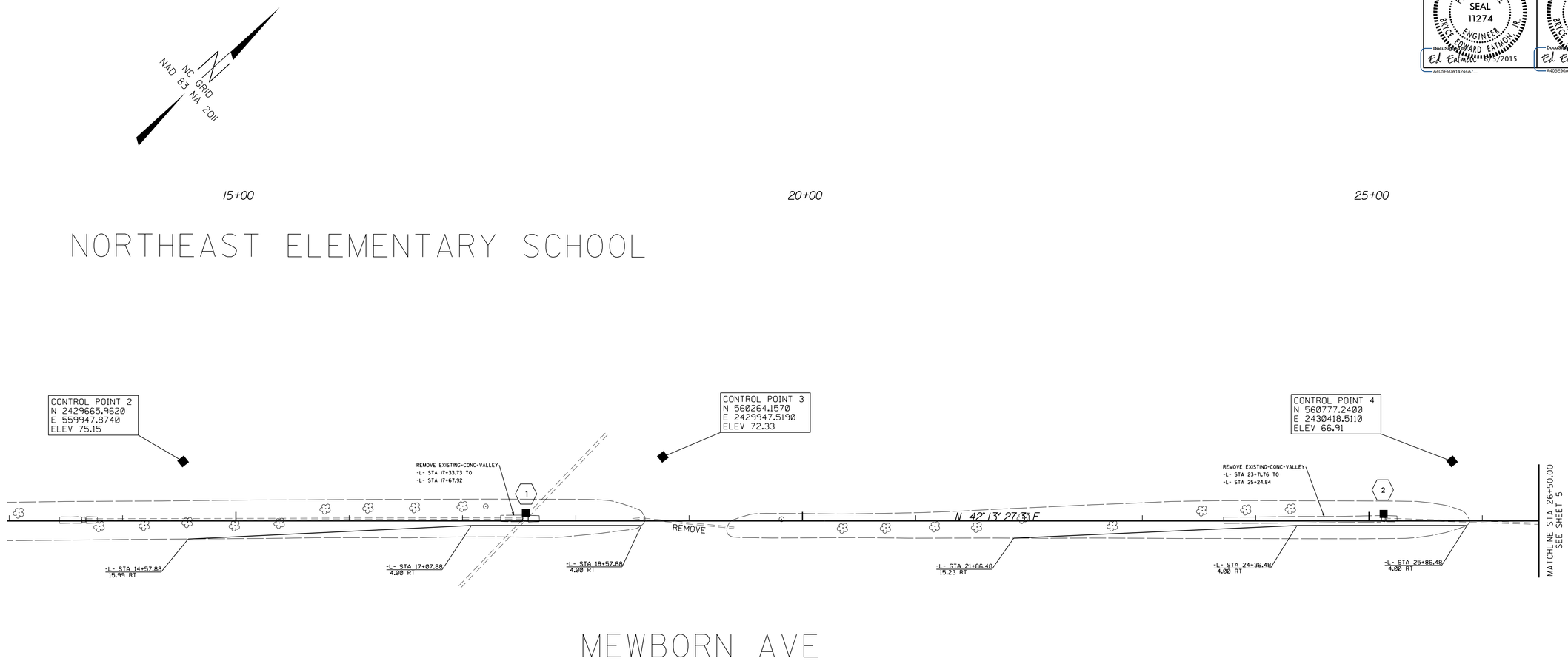
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON, III

Docusigned by: Ed Eatmon 6/5/2015 A405E90A14244A7...

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON, III

Docusigned by: Ed Eatmon 6/5/2015 A405E90A14244A7...



REVISIONS

8/17/99

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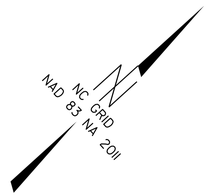
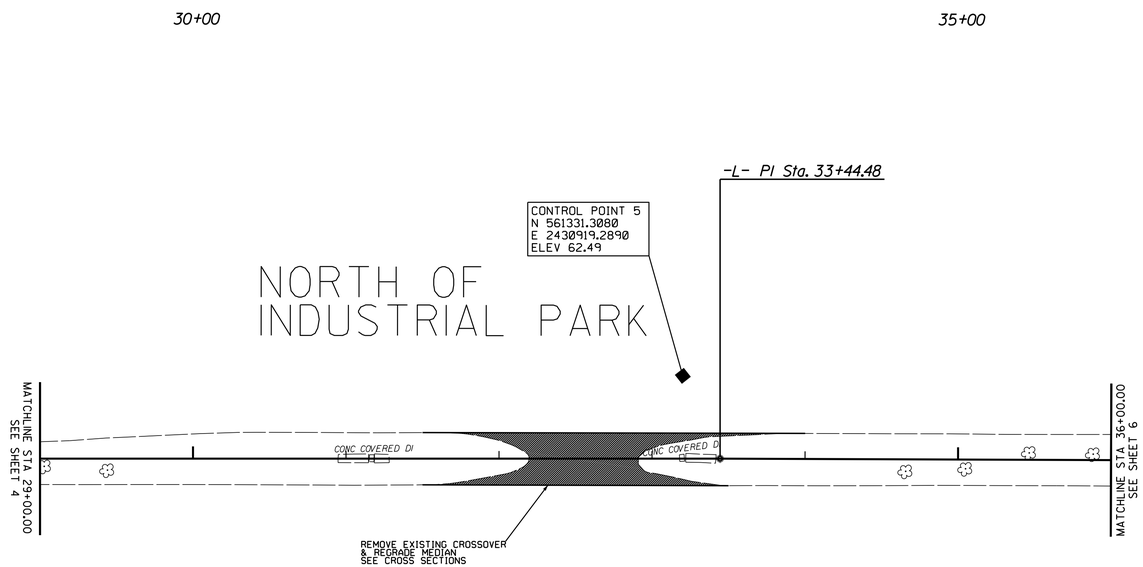
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 033793 ENGINEER WILLIAM C. KINCANNON
Docusigned by: 5/24/2016 | 3:32 PM ET

NORTH CAROLINA PROFESSIONAL SEAL 033798 ENGINEER WILLIAM C. KINCANNON
Docusigned by: 5/24/2016 | 3:32 PM ET





REVISIONS

REVISED 05-19-16 TO REMOVE THE CROSSOVER AT 32+50 AND THE TURN LANES AND CROSSOVER AT 375+00.

8/17/99

23-MAY-2016 10:14
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PROJECT REFERENCE NO.	SHEET NO.
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R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, III

DocuSigned by: Ed Eatmon 8/5/2015 A405E90A14244A7...

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, III

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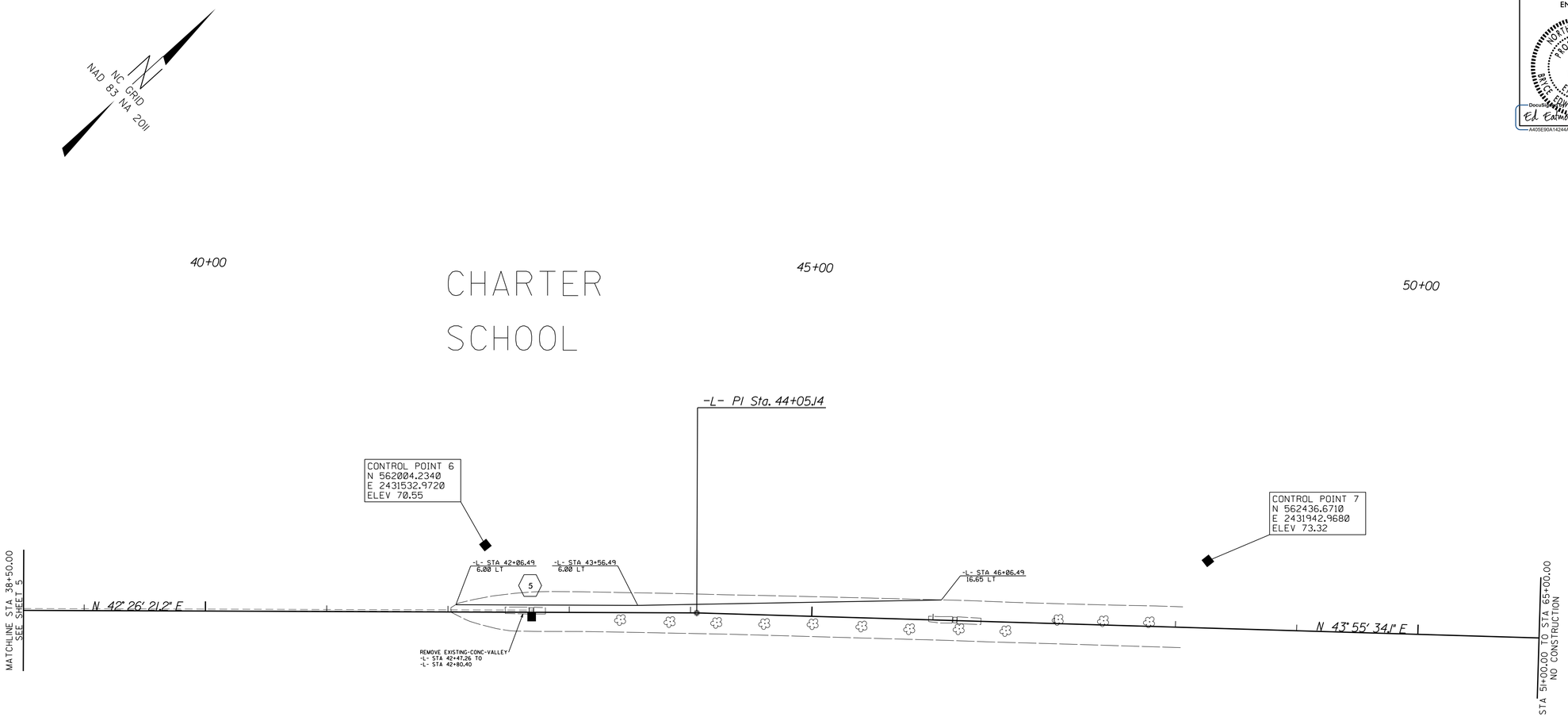

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
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R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, III

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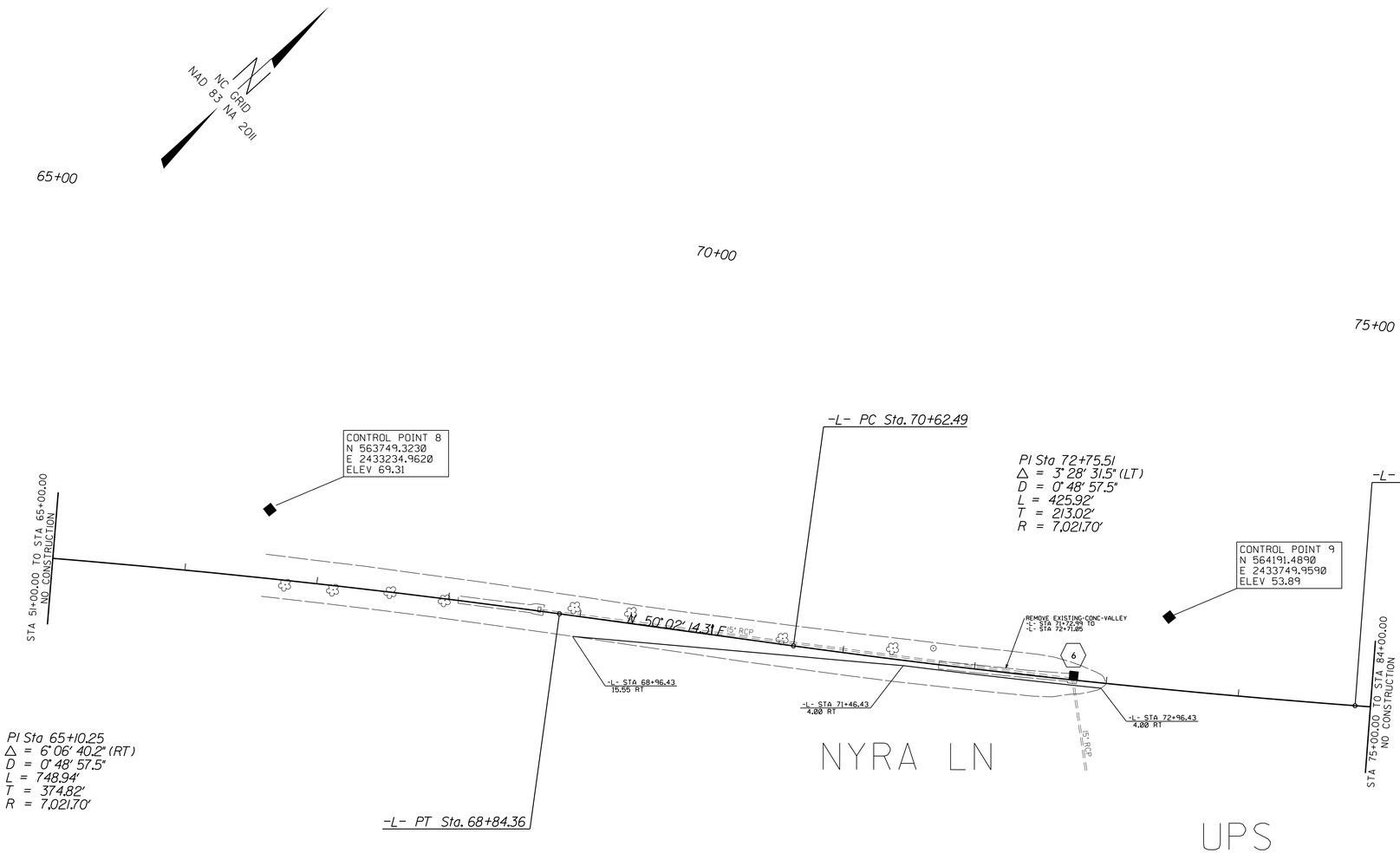

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
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R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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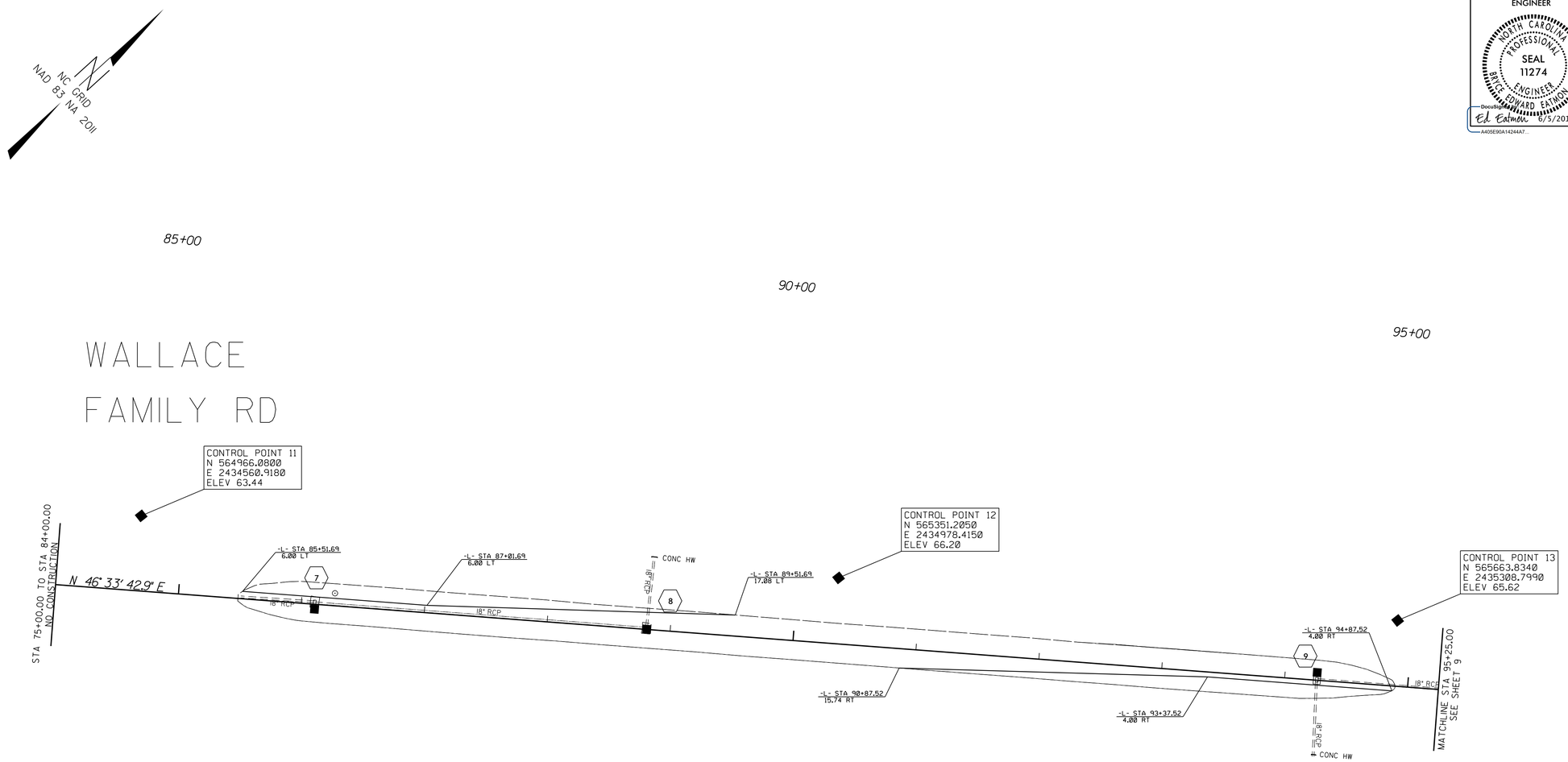

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
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R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON, III

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Ed Eatmon 6/5/2015

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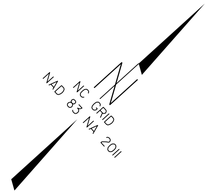
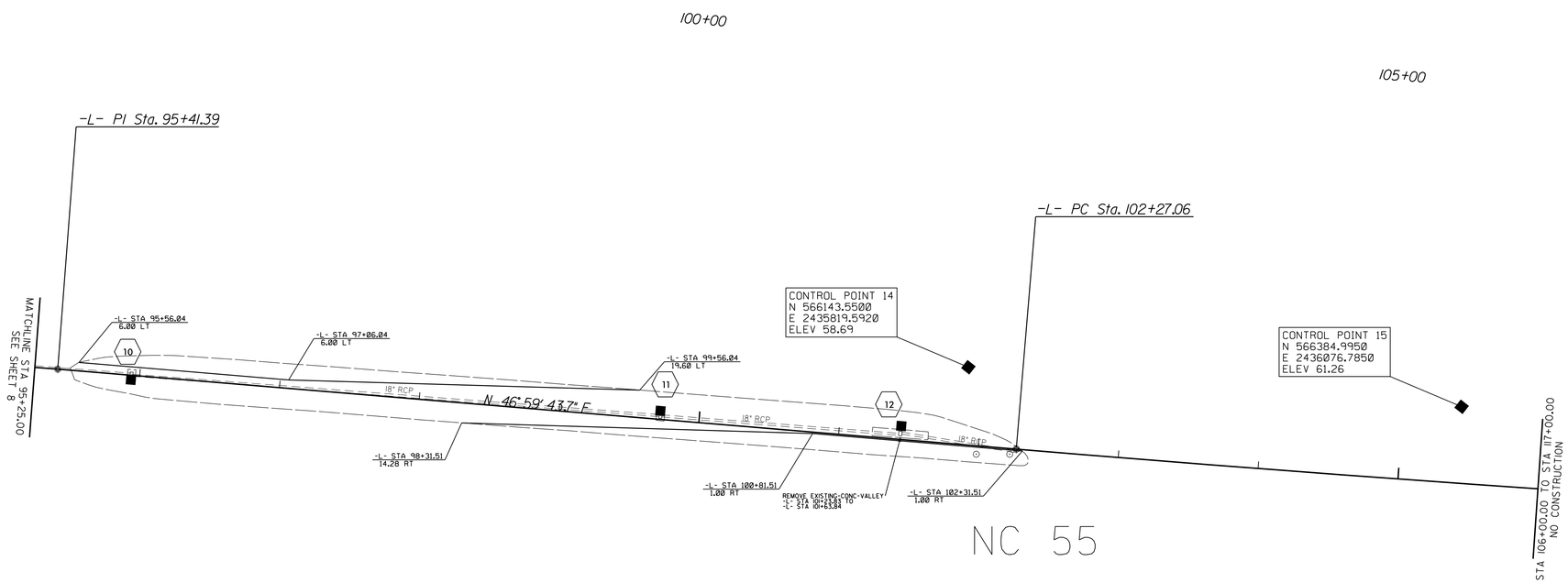
Ed Eatmon 6/5/2015





REVISIONS

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ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, JR.

DocuSigned by: Ed Eatmon 8/5/2015
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HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, JR.

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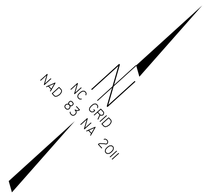

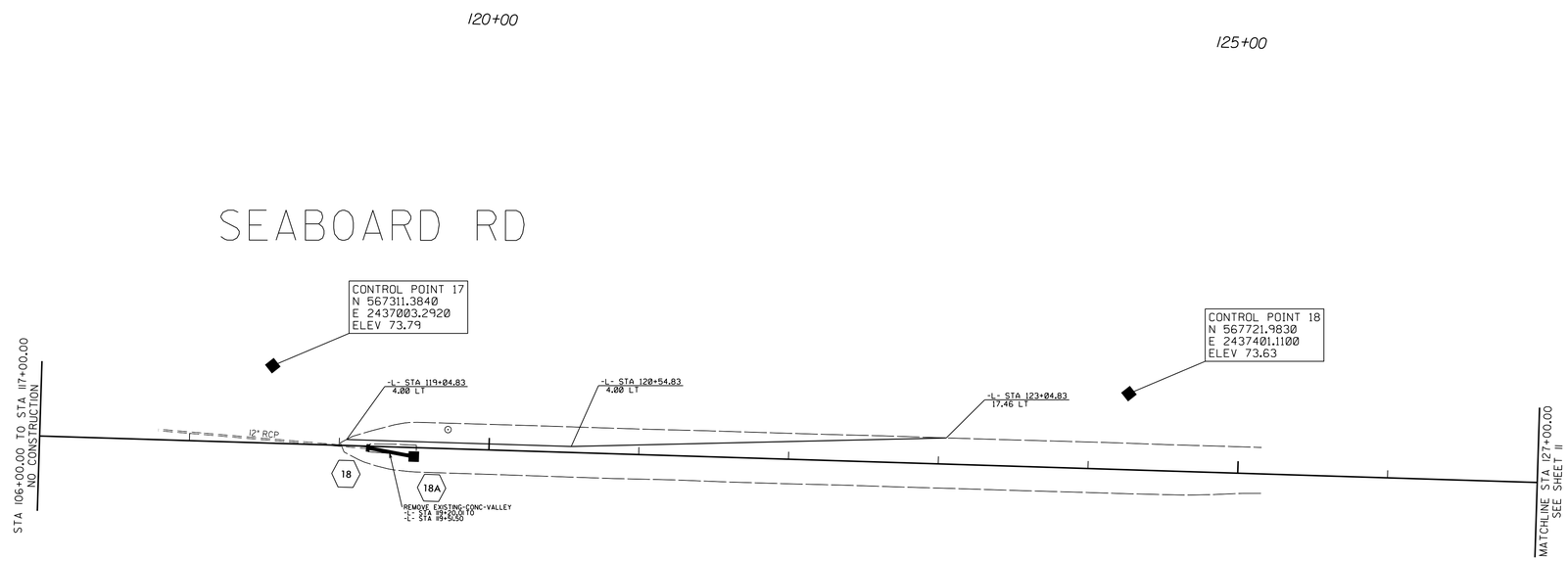

REVISIONS

8/17/99

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NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON III

Ed Eatmon 11/13/2015

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NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON III

Ed Eatmon 11/13/2015

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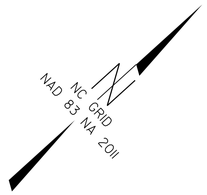
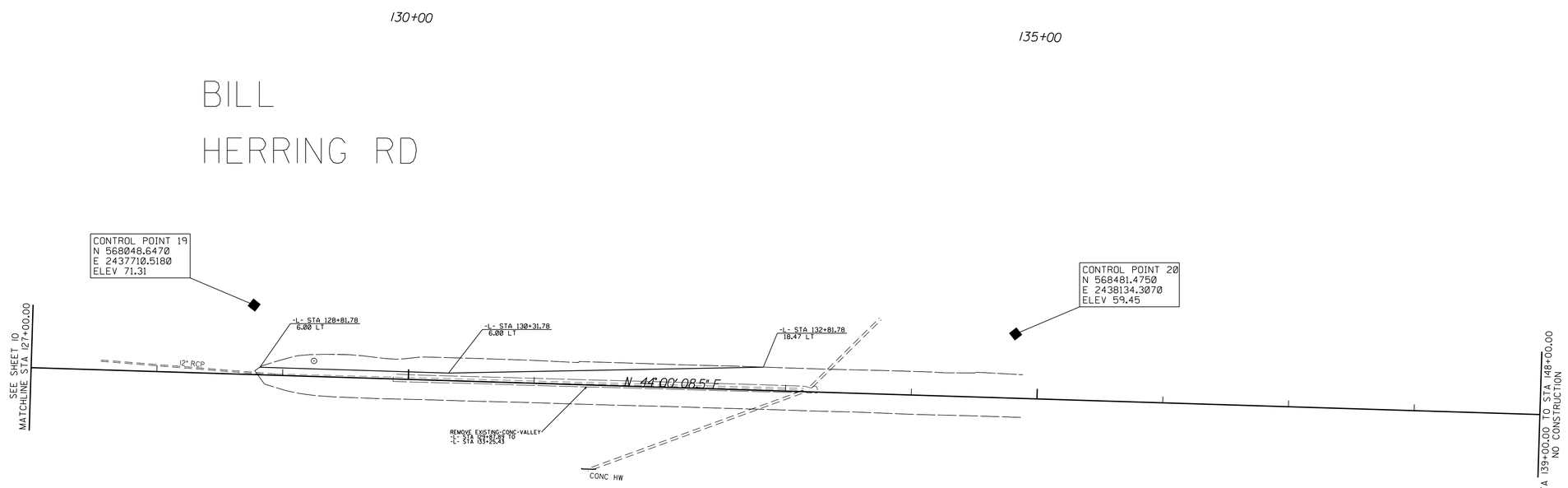
REVISIONS





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NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, JR.
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Ed Eatmon 8/5/2015

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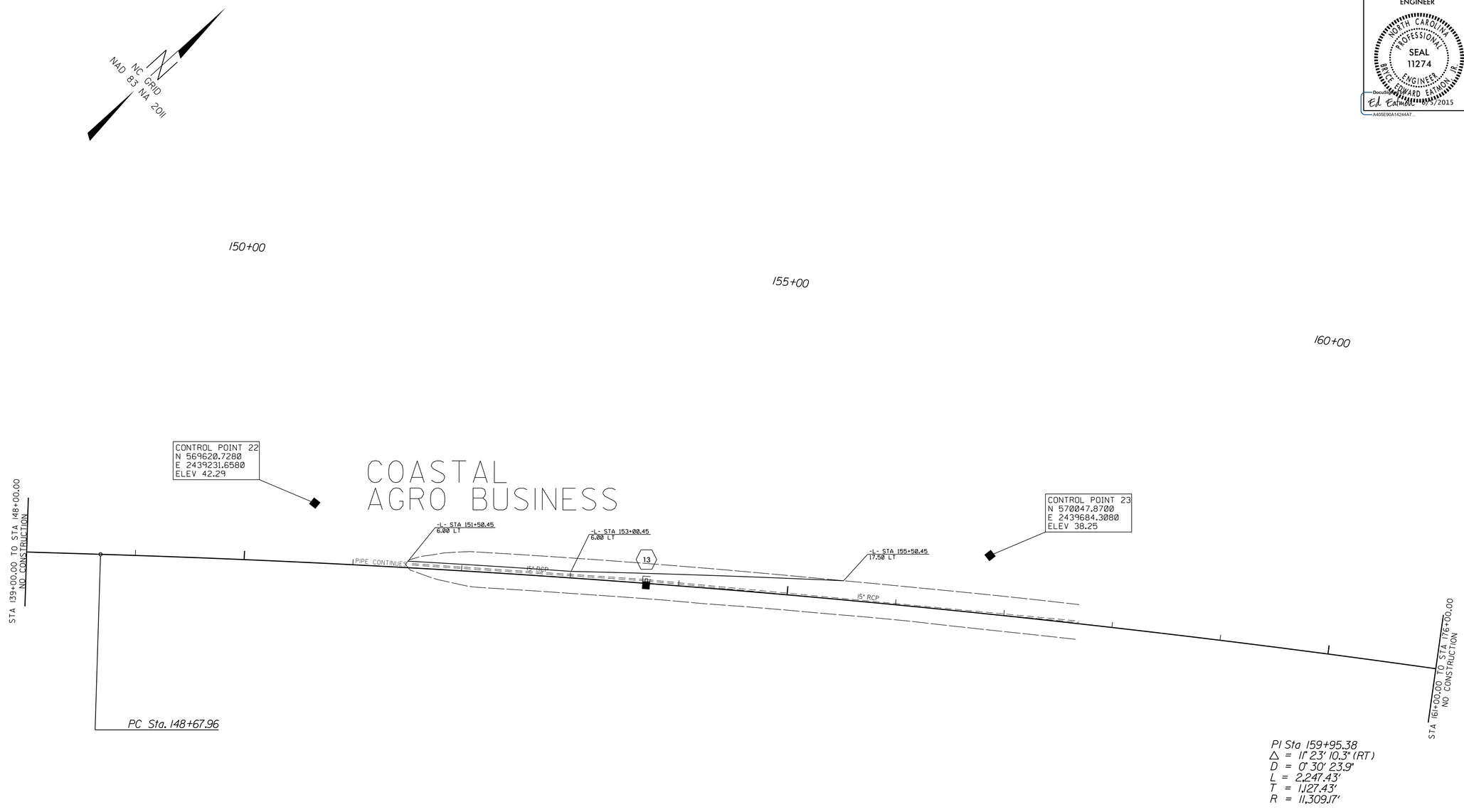
Ed Eatmon 8/5/2015



REVISIONS

8/17/99

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R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON, III

DocuSigned by: Ed Eatmon 6/3/2015 A405E90A14244A7...

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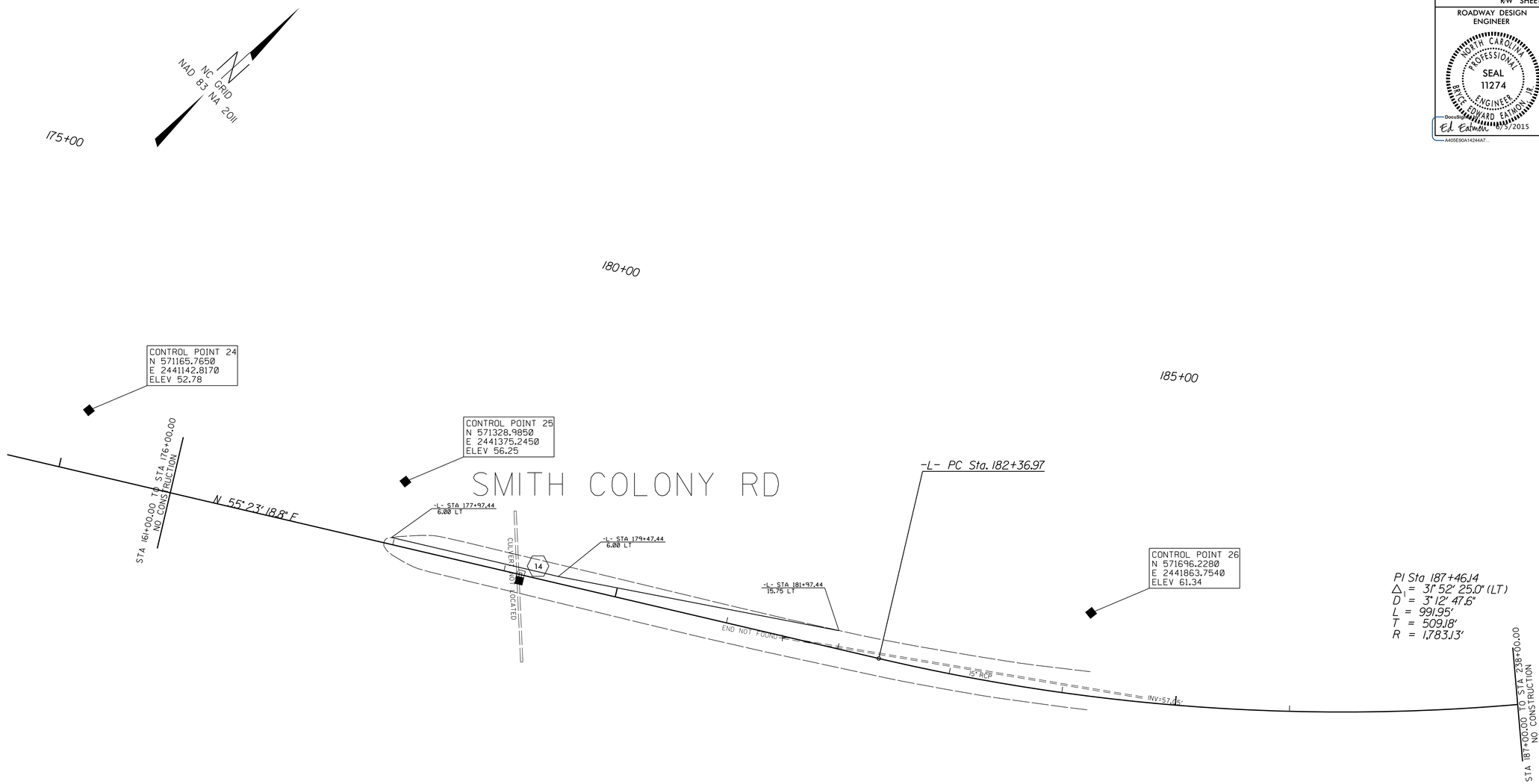

REVISIONS

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NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON, III

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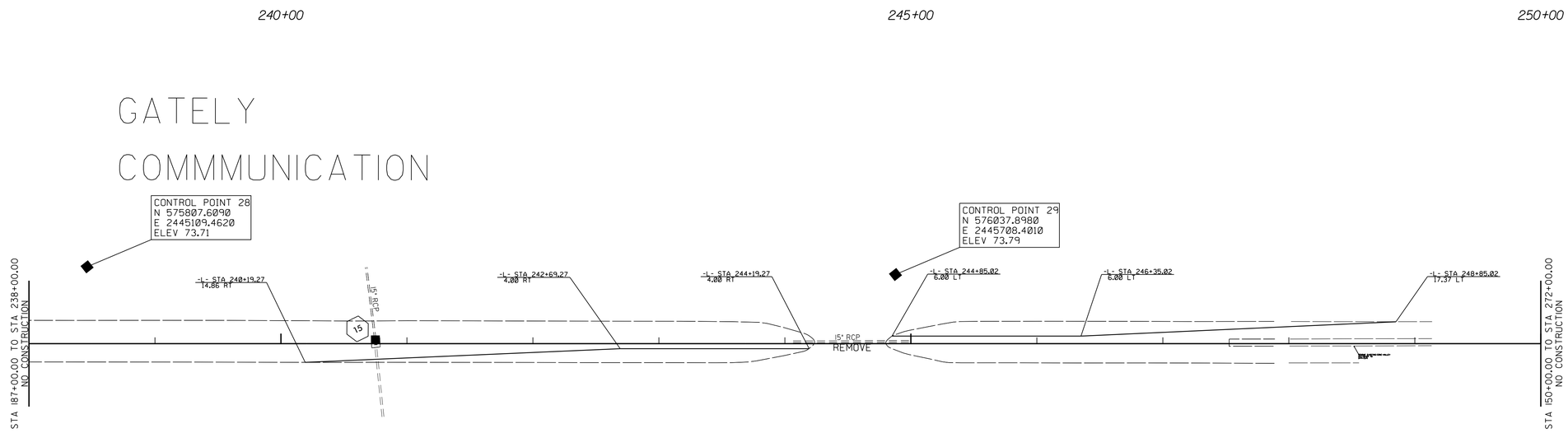

REVISIONS

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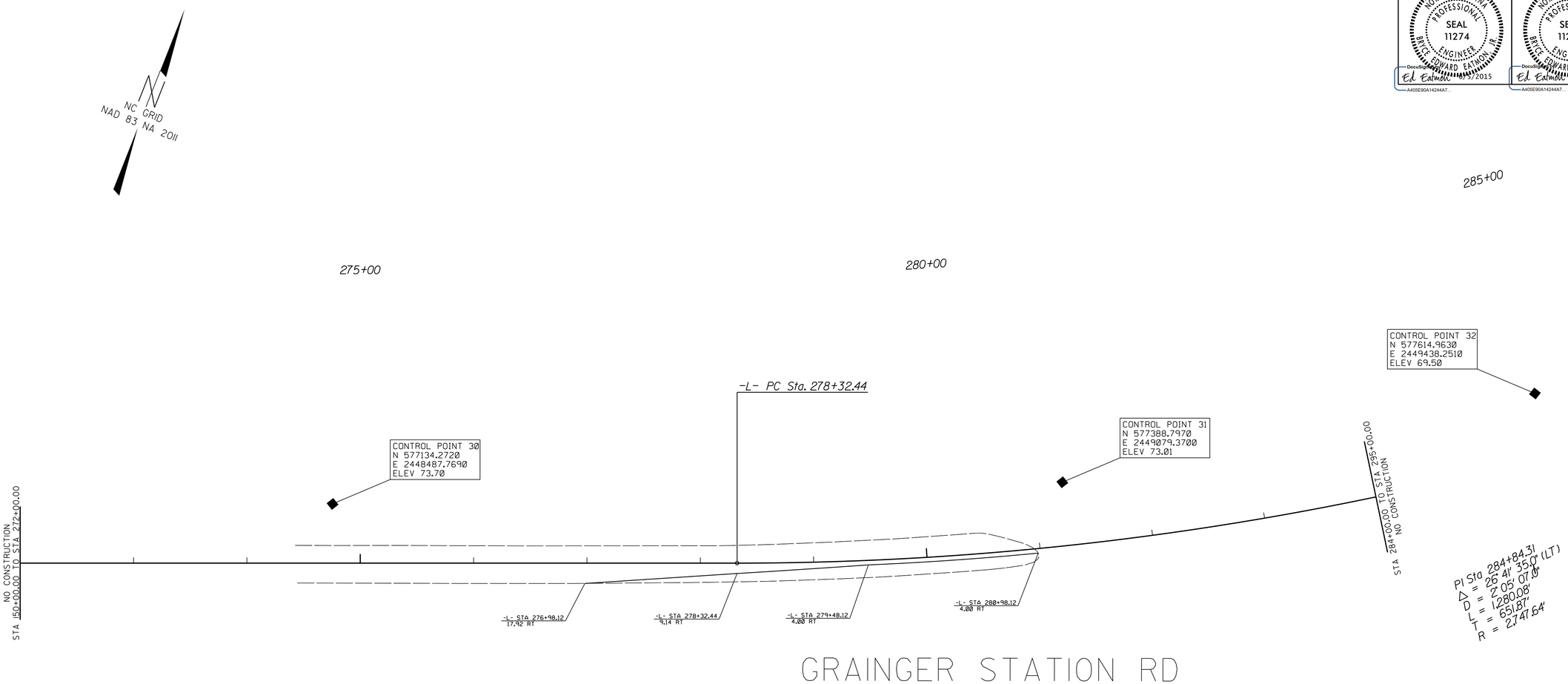

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
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NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, III

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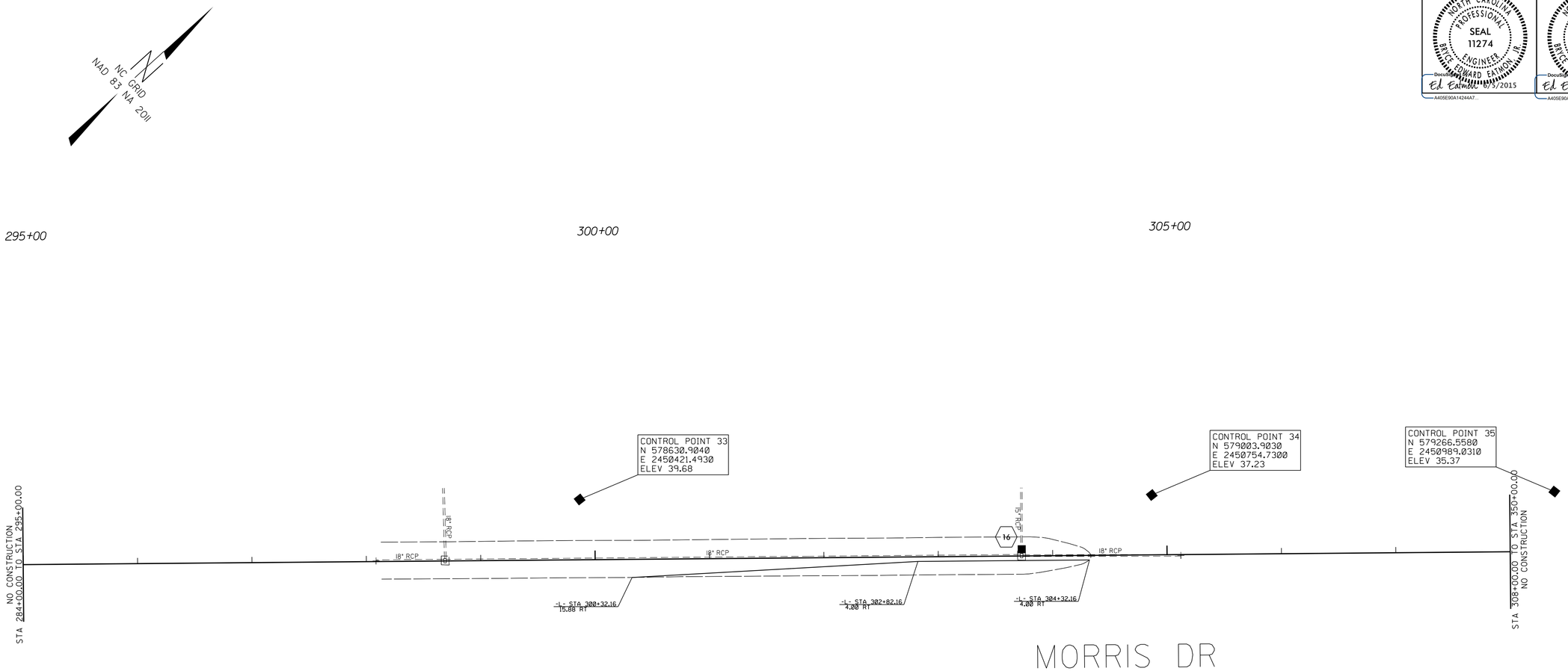

REVISIONS

8/17/99

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NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON, III

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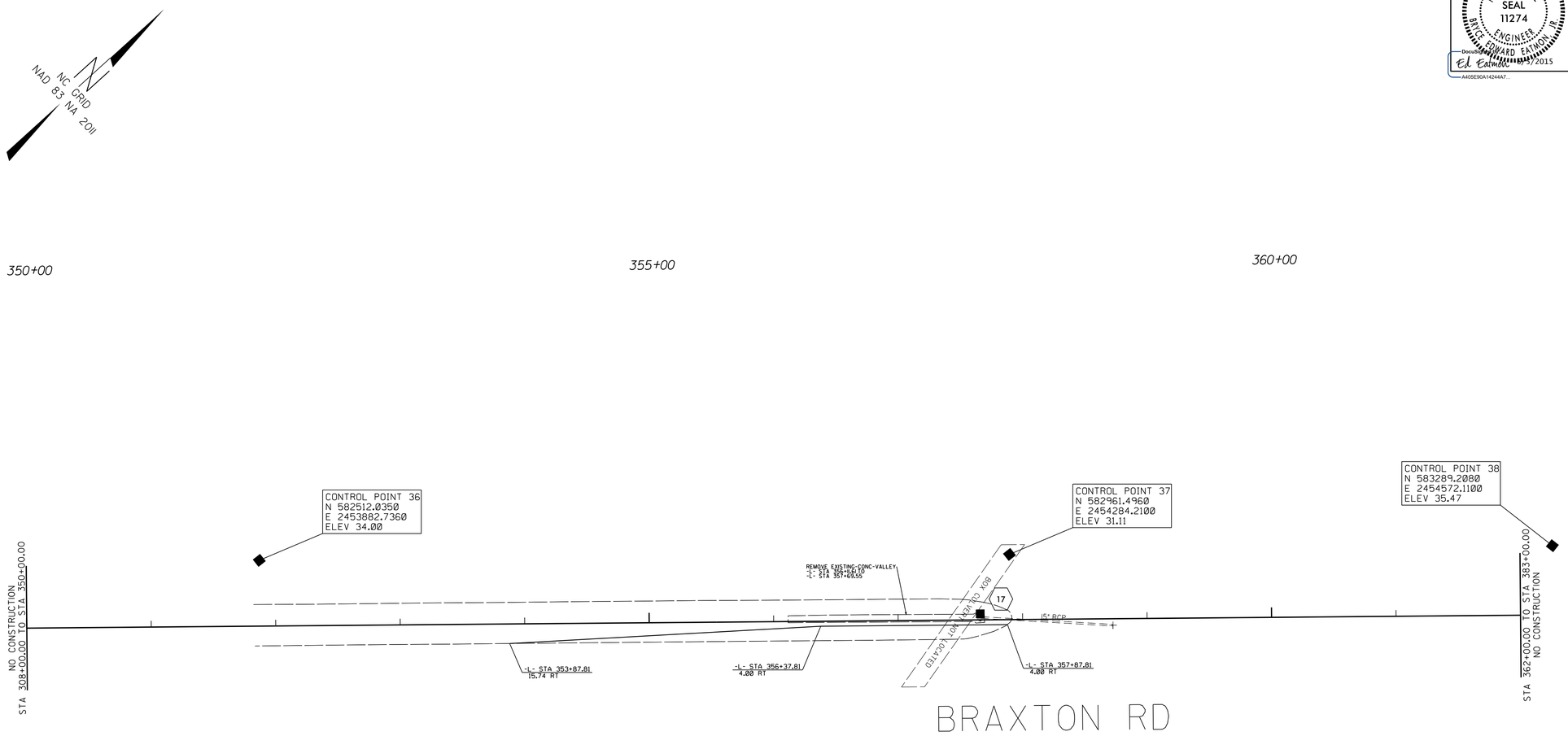

REVISIONS

8/17/99

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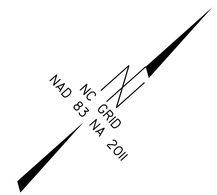
PROJECT REFERENCE NO.	SHEET NO.
W5202K	17A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

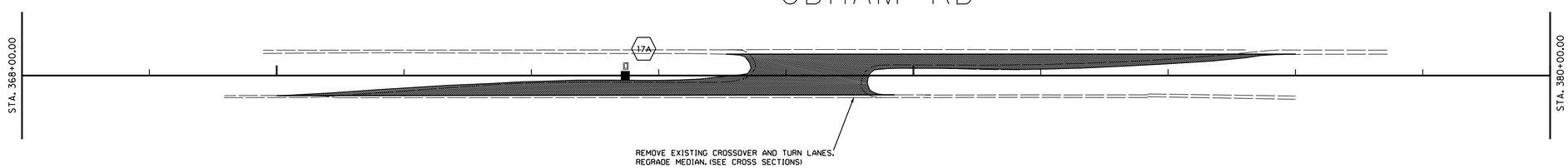
NORTH CAROLINA PROFESSIONAL SEAL 33793 ENGINEER WILLIAM C. KINCANNON
Digitally signed by William C. Kincannon
5/24/2016 | 3:32 PM ET

NORTH CAROLINA PROFESSIONAL SEAL 33793 ENGINEER WILLIAM C. KINCANNON
Digitally signed by William C. Kincannon
5/24/2016 | 3:32 PM ET



370+00 375+00 380+00

ODHAM RD



REVISIONS

REVISED 05/19/2016 REMOVE LT TURN LANE AND RT TURN LANE AT ODHAM RD

8/17/99

23-MAY-2016 10:55
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PROJECT REFERENCE NO.	SHEET NO.
W-5202K	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, III
DocuSigned by: Ed Eatmon 6/5/2015
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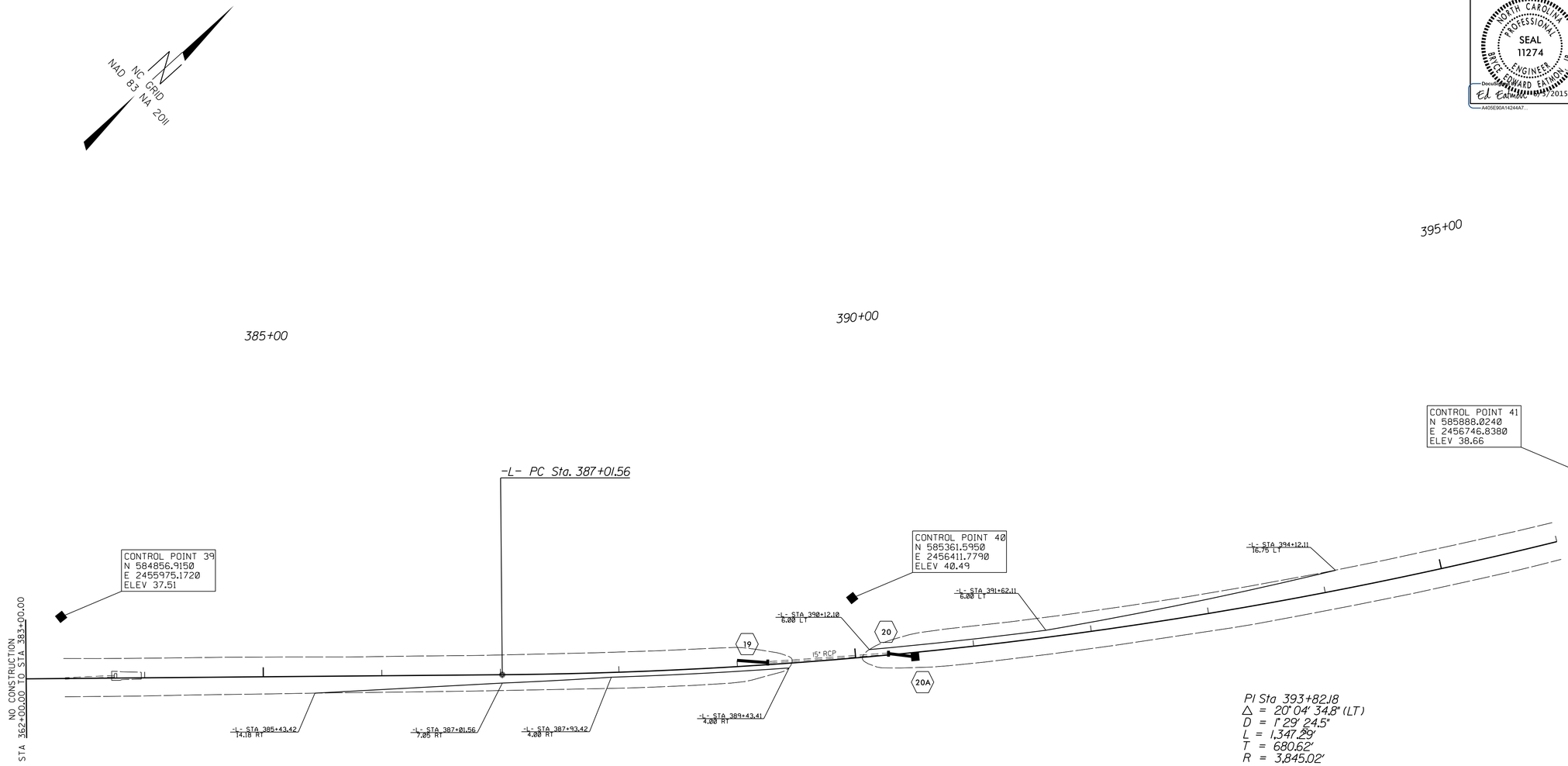

PI Sta 393+82.18
△ = 20° 04' 34.8" (LT)
D = 1° 29' 24.5"
L = 1,347.29'
T = 680.62'
R = 3,845.02'

SWEEPSTAKES

5359 NC 11 S

REVISIONS

8/17/99

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TIP PROJECT: W-5202K

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5202K	EC-1	

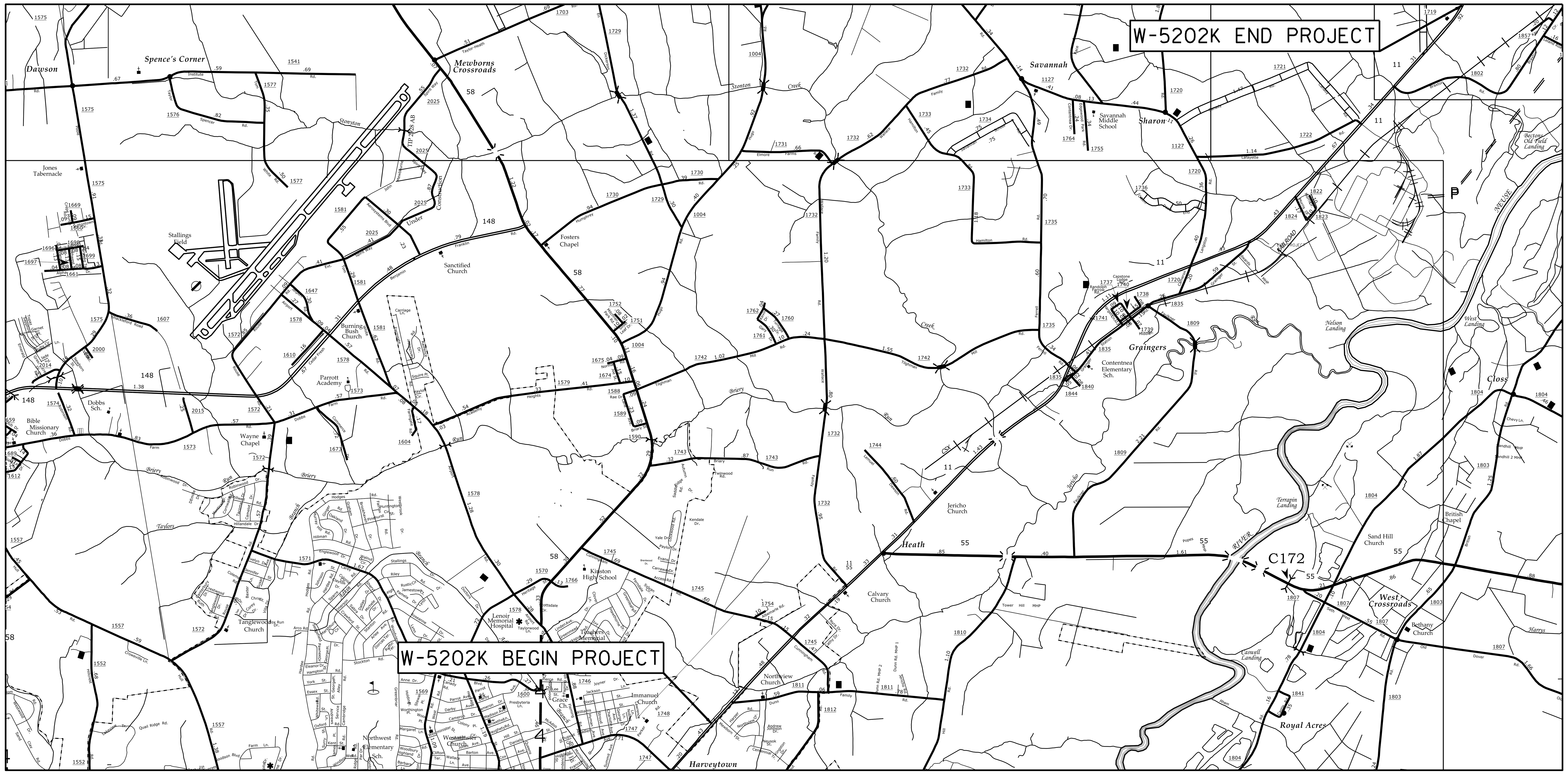
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
45332.1.11	HSIP-0011(30)	PE
45332.3.11	HSIP-0011(30)	RW

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NC GRID
NAD 83 NA 2011

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LOCATION: NC 11 SOUTH OF MEWBORN RD TO NORTH OF ODHAM RD



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	
	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.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

25 0 50

PLANS

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

2012 STANDARD SPECIFICATIONS

Prepared In the Office of:

DIVISION 2 DDC

1704 NORTH GREENE STREET
GREENVILLE, NC 27835

Timothy Pinkham
Level III
Certification #3510

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 2012 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

05-JUN-2015 08:29
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PROJECT REFERENCE NO.	SHEET NO.
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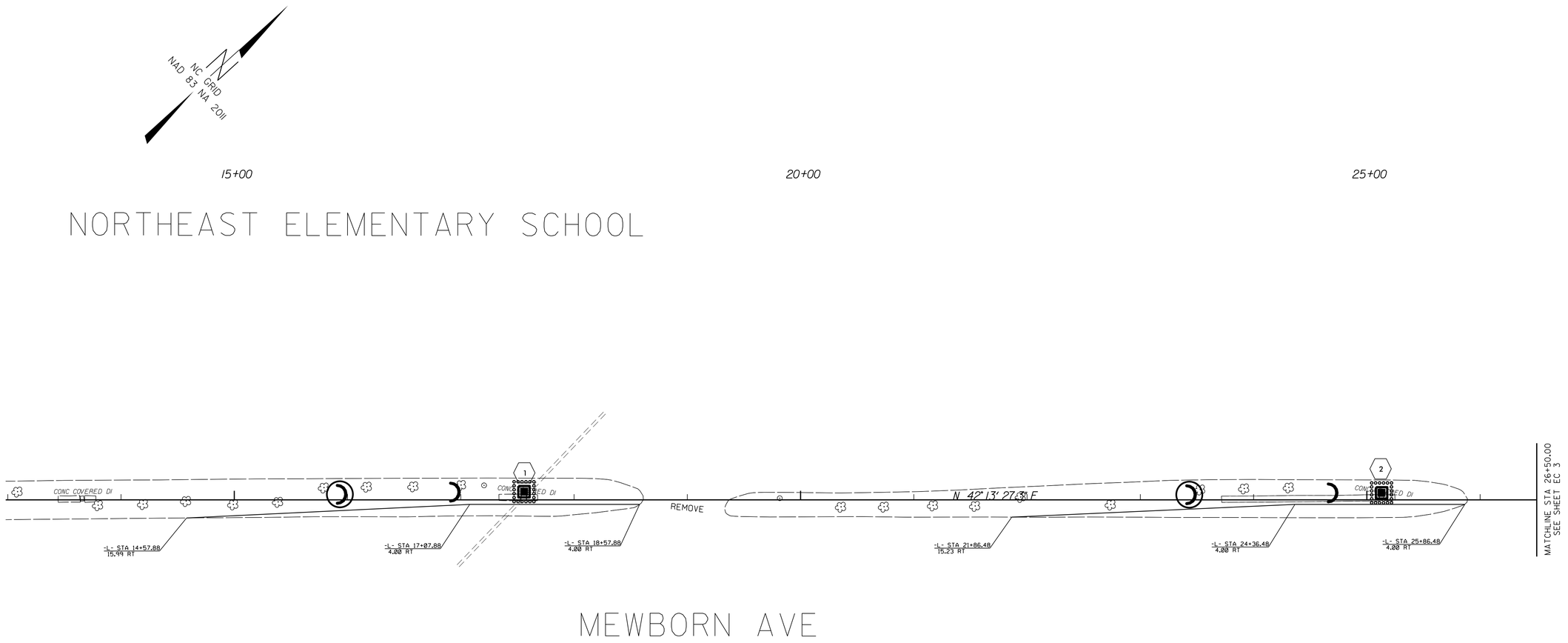

SOIL STABILIZATION TIMEFRAMES

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
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

05-JUN-2015 08:29
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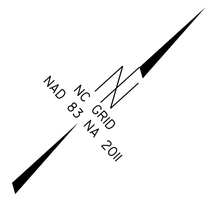
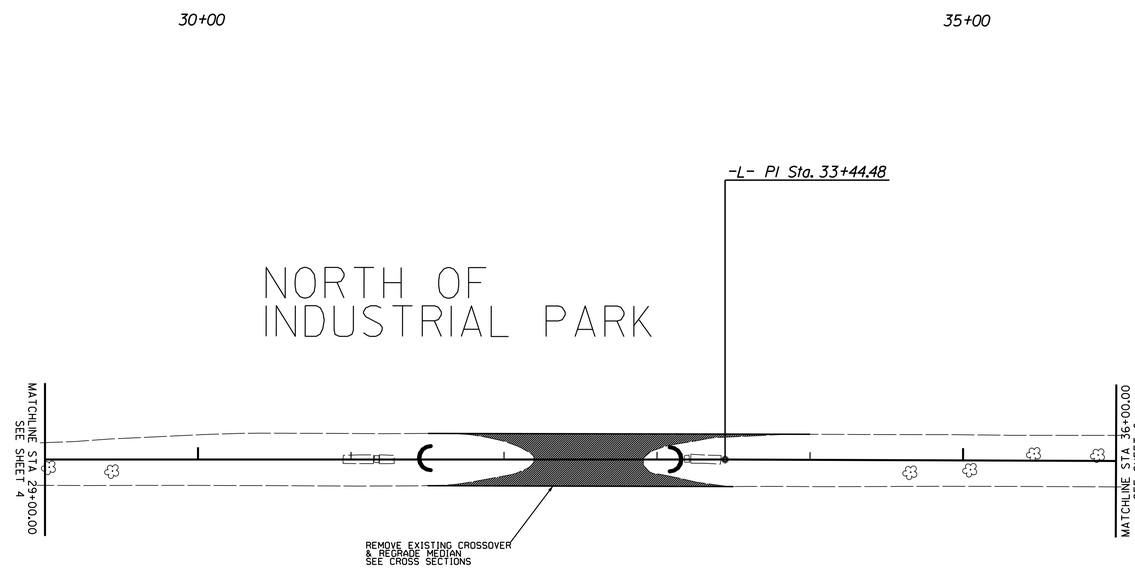
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 3





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
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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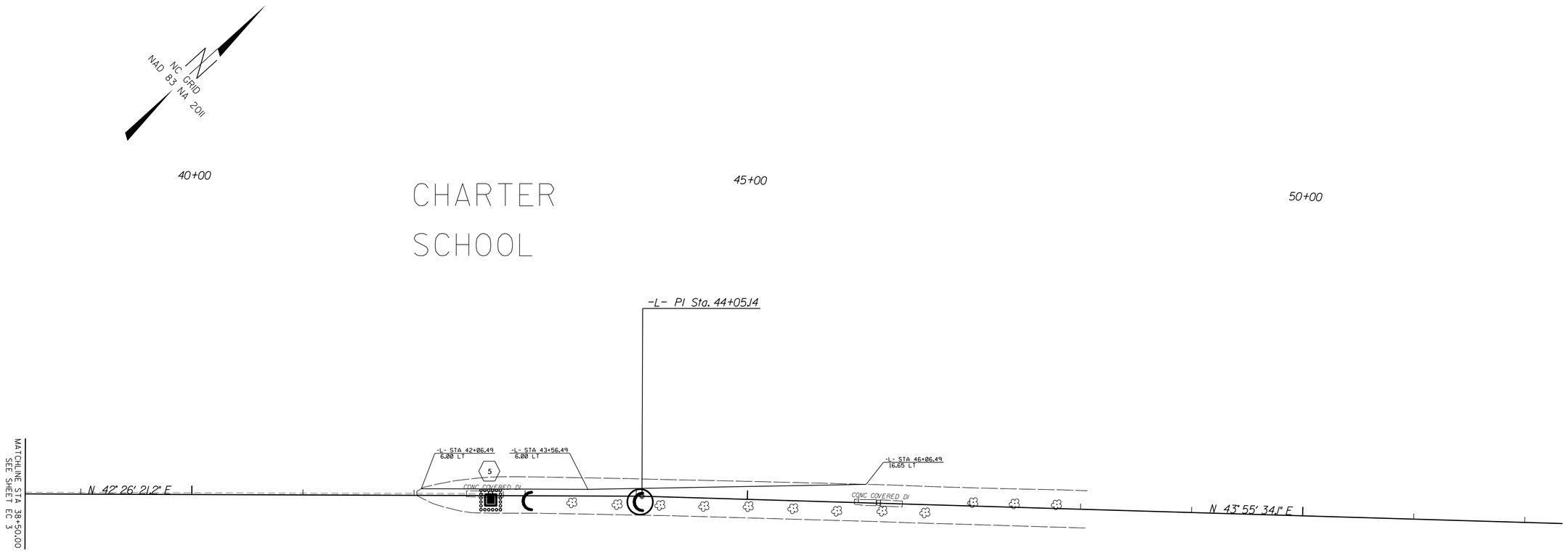
USER:TCHAPPELL

PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 4



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.

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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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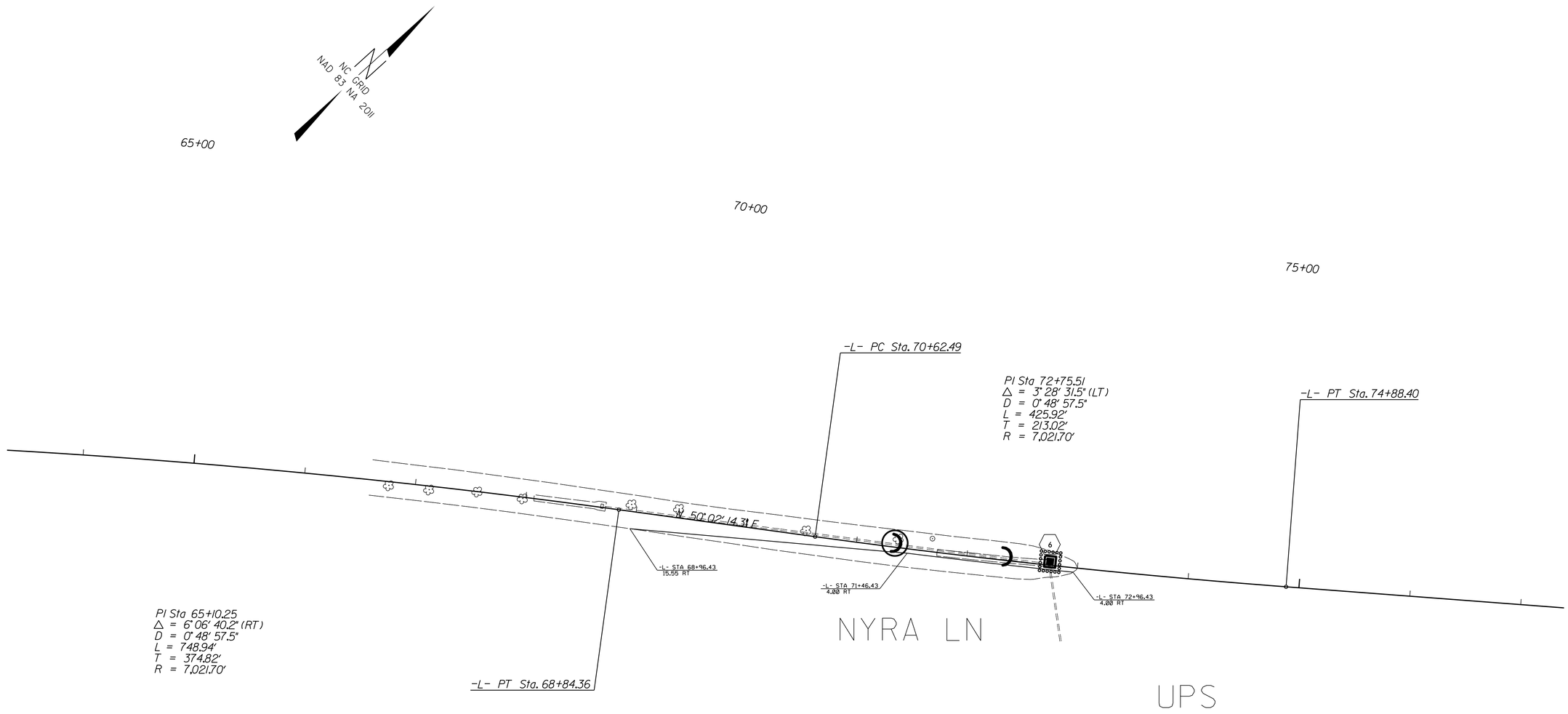
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 5



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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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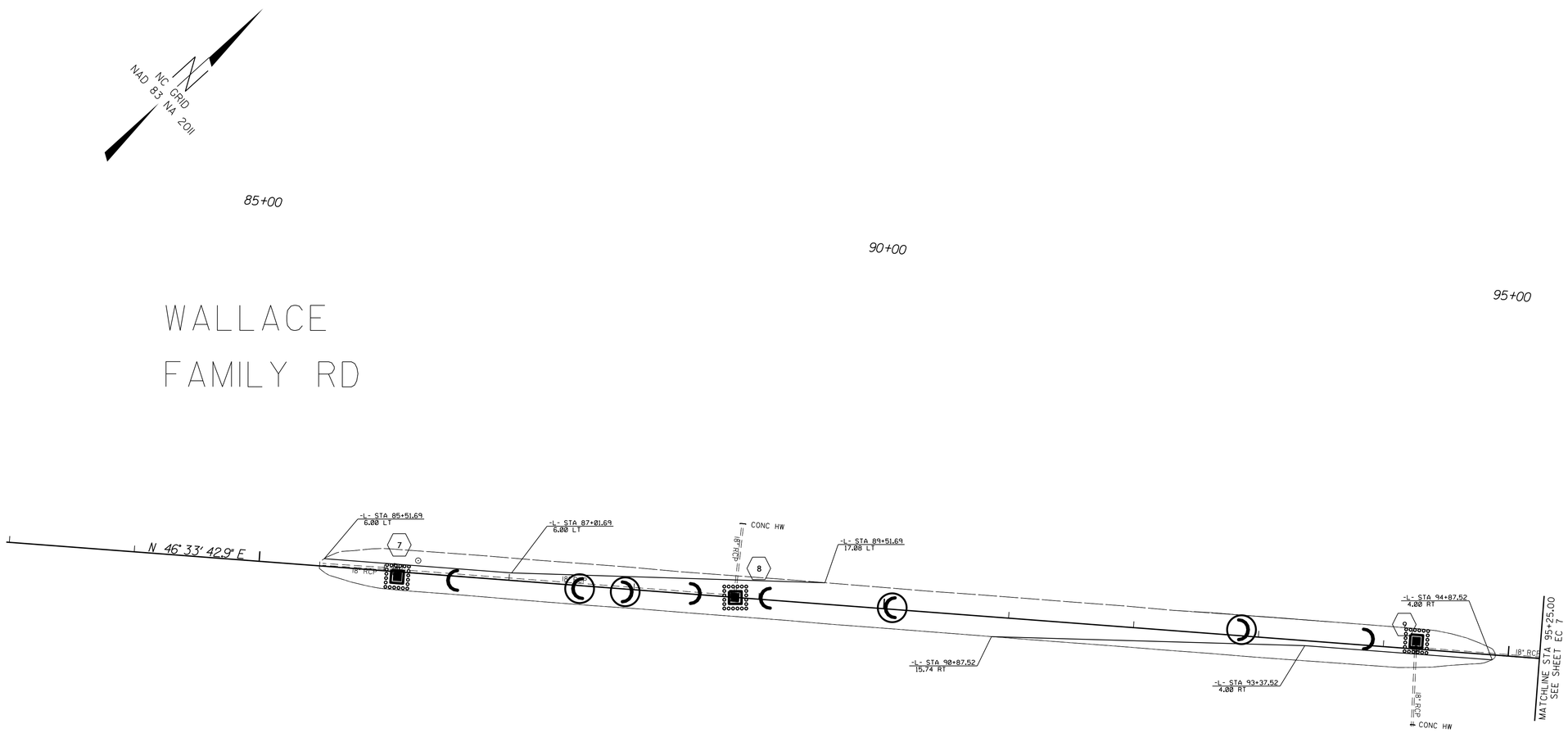
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 6



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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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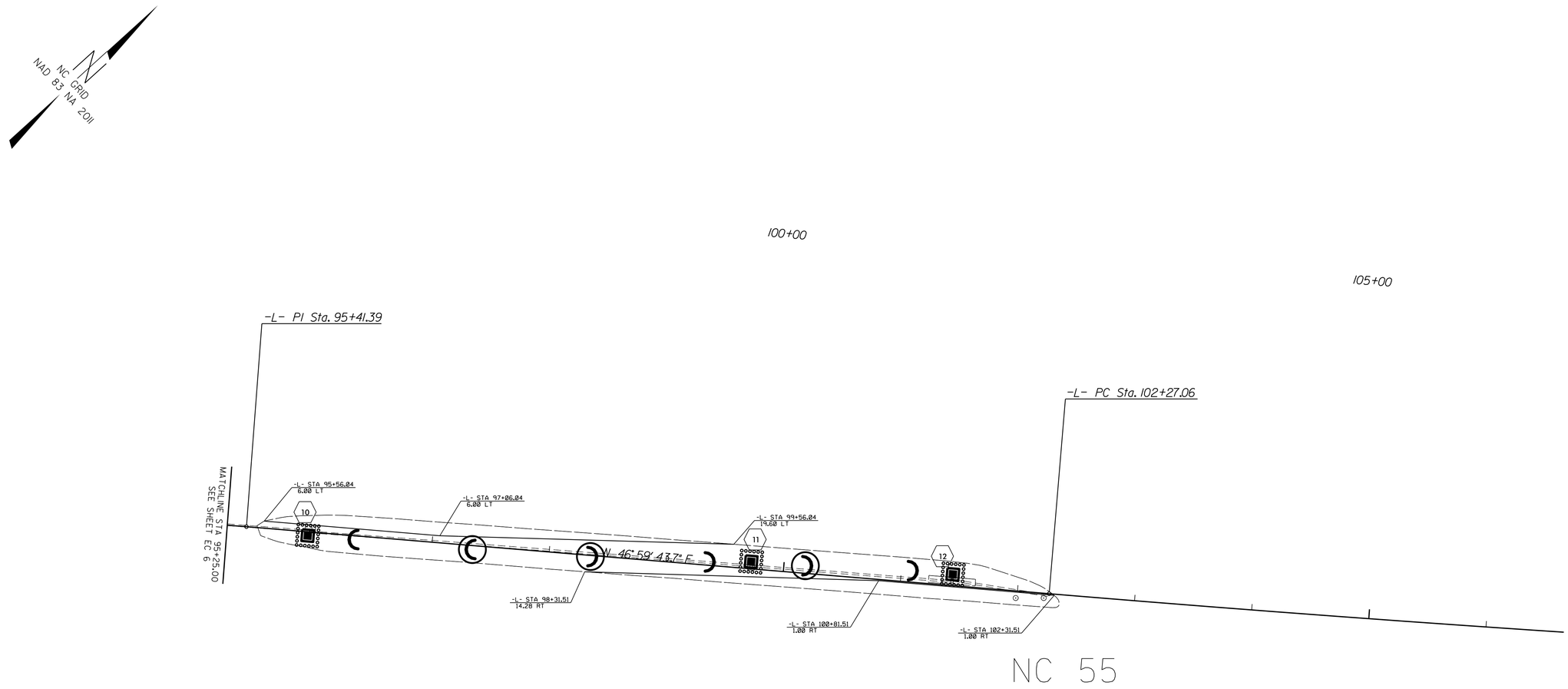
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 7



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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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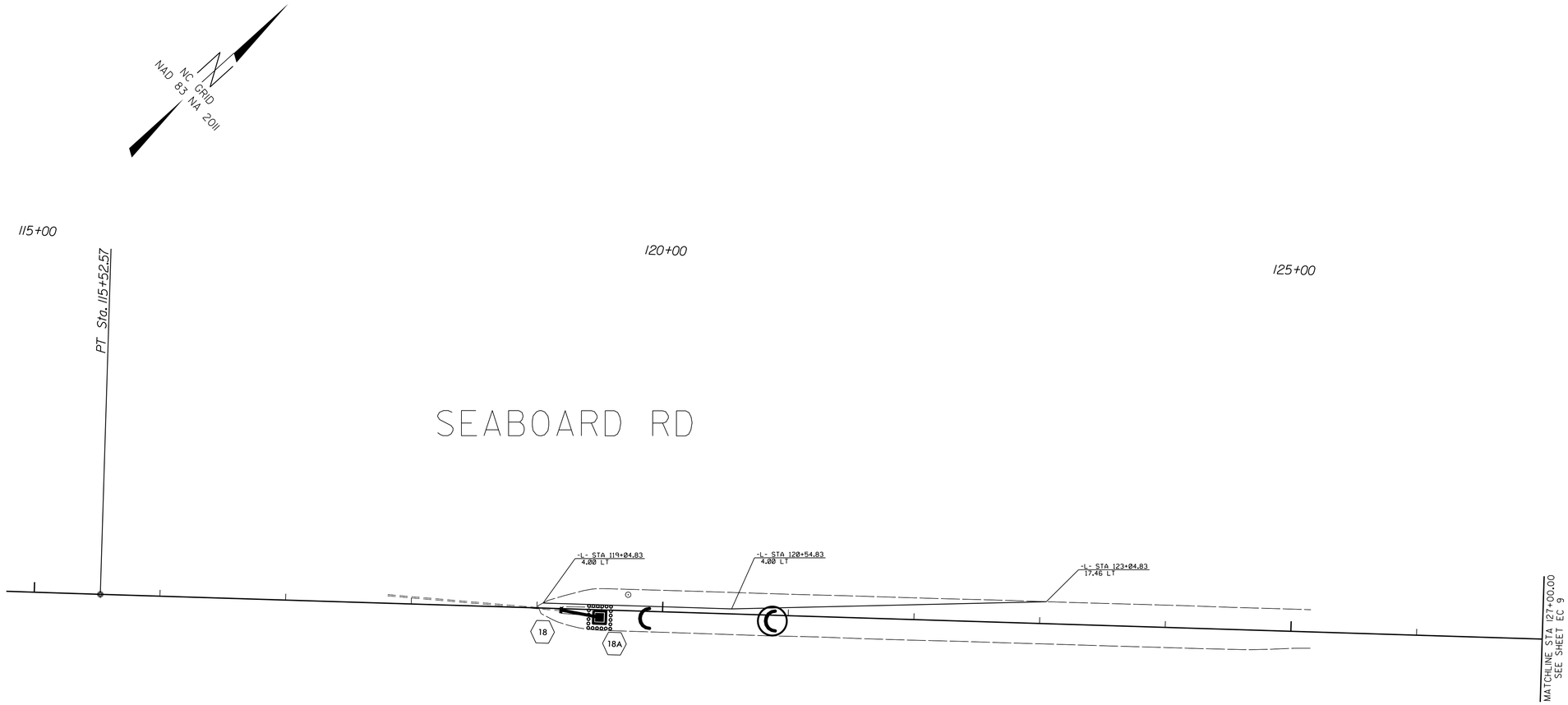
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 8



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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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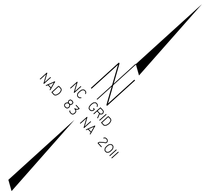
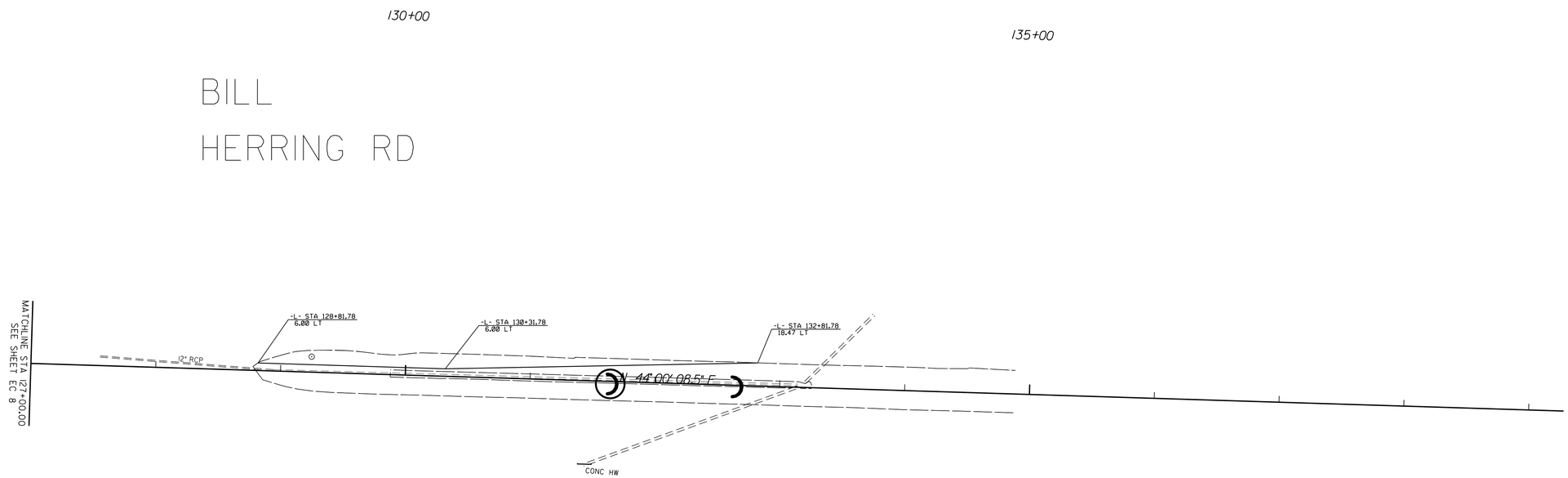
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 9





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
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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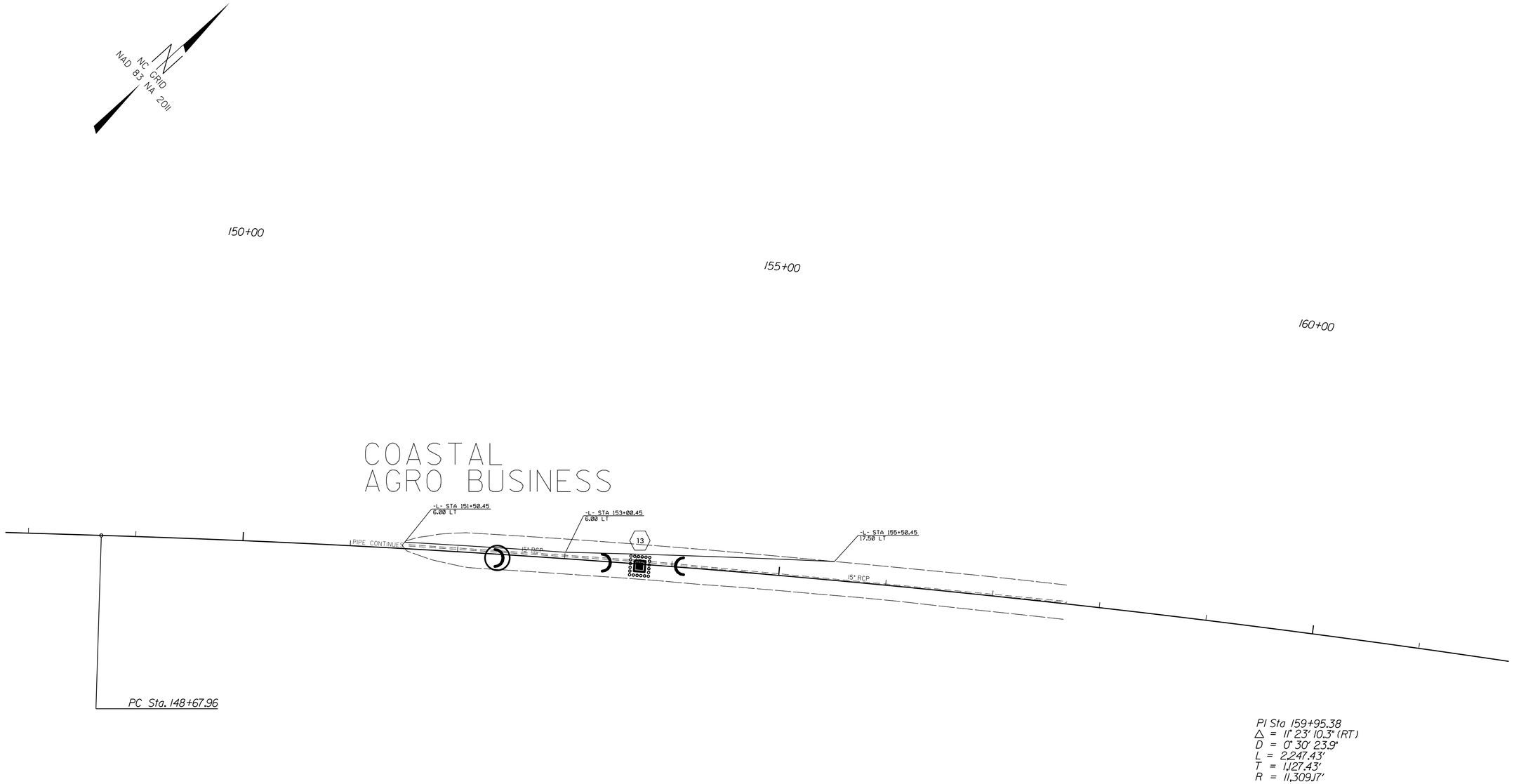
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 10



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
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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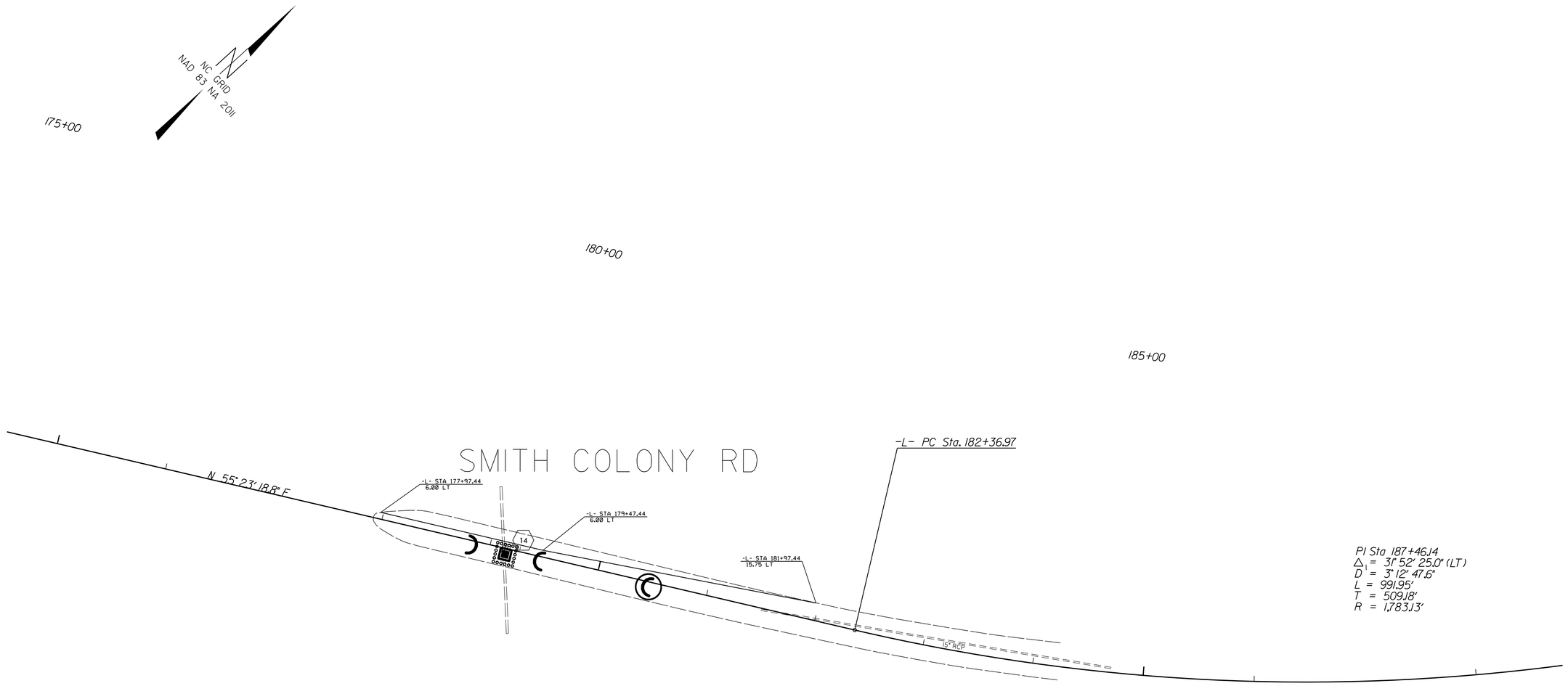
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 11



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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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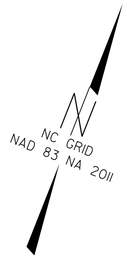
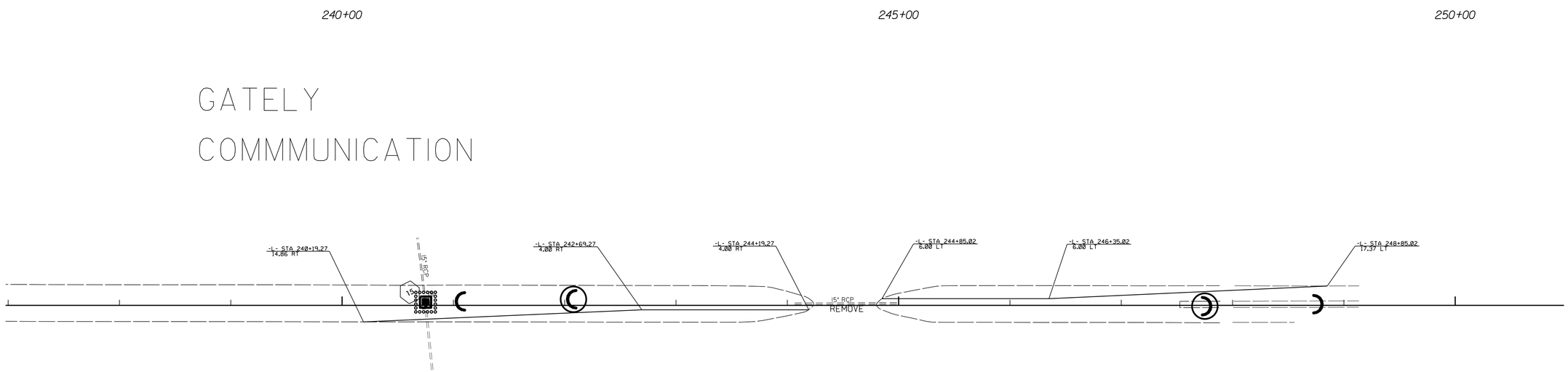
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 12





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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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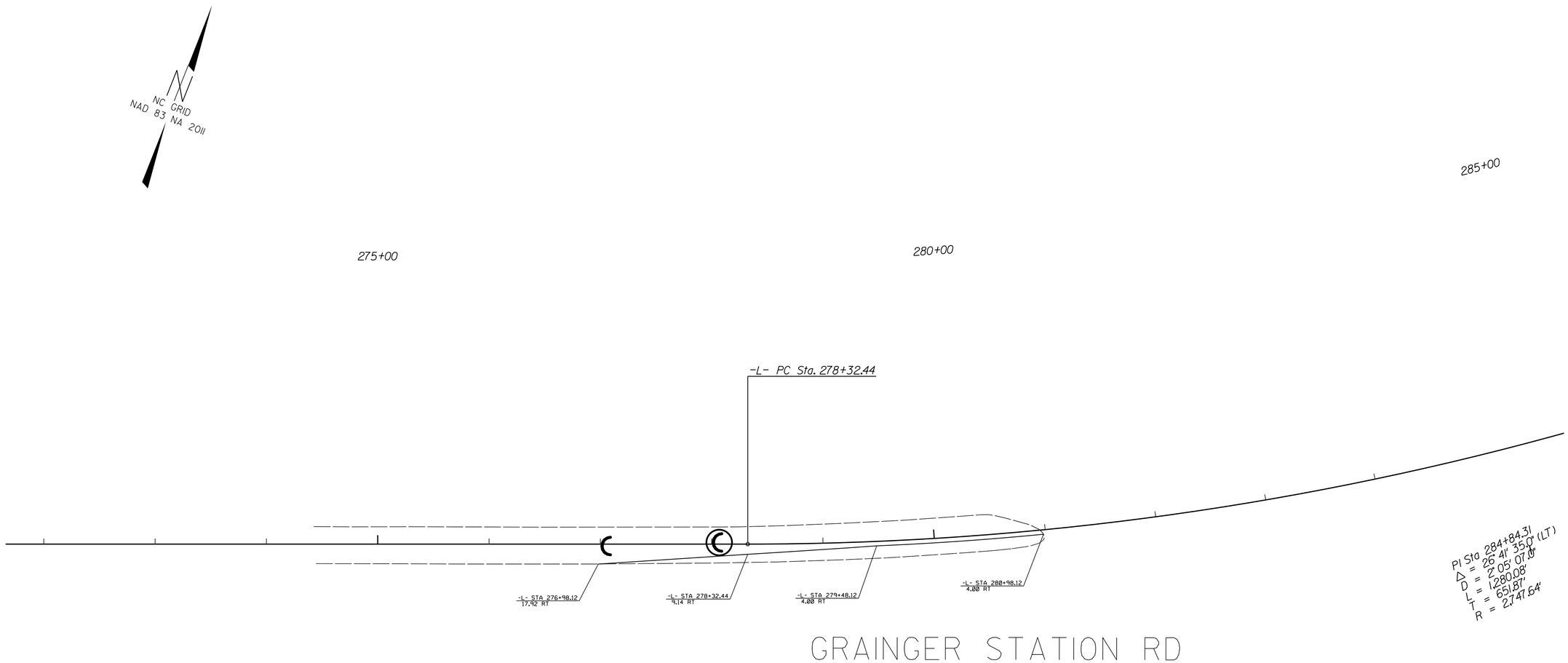
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 13



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
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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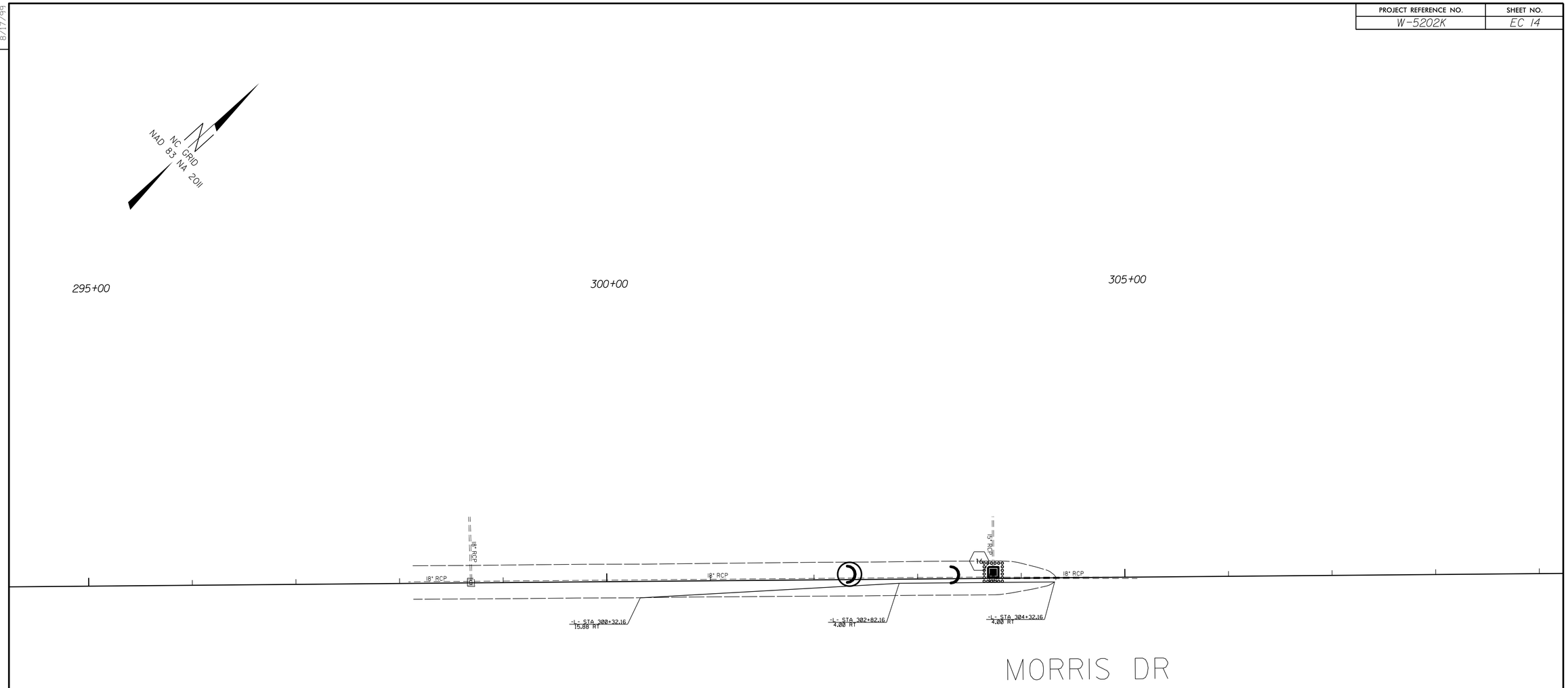
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 14



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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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r2ahill@ncdot.gov
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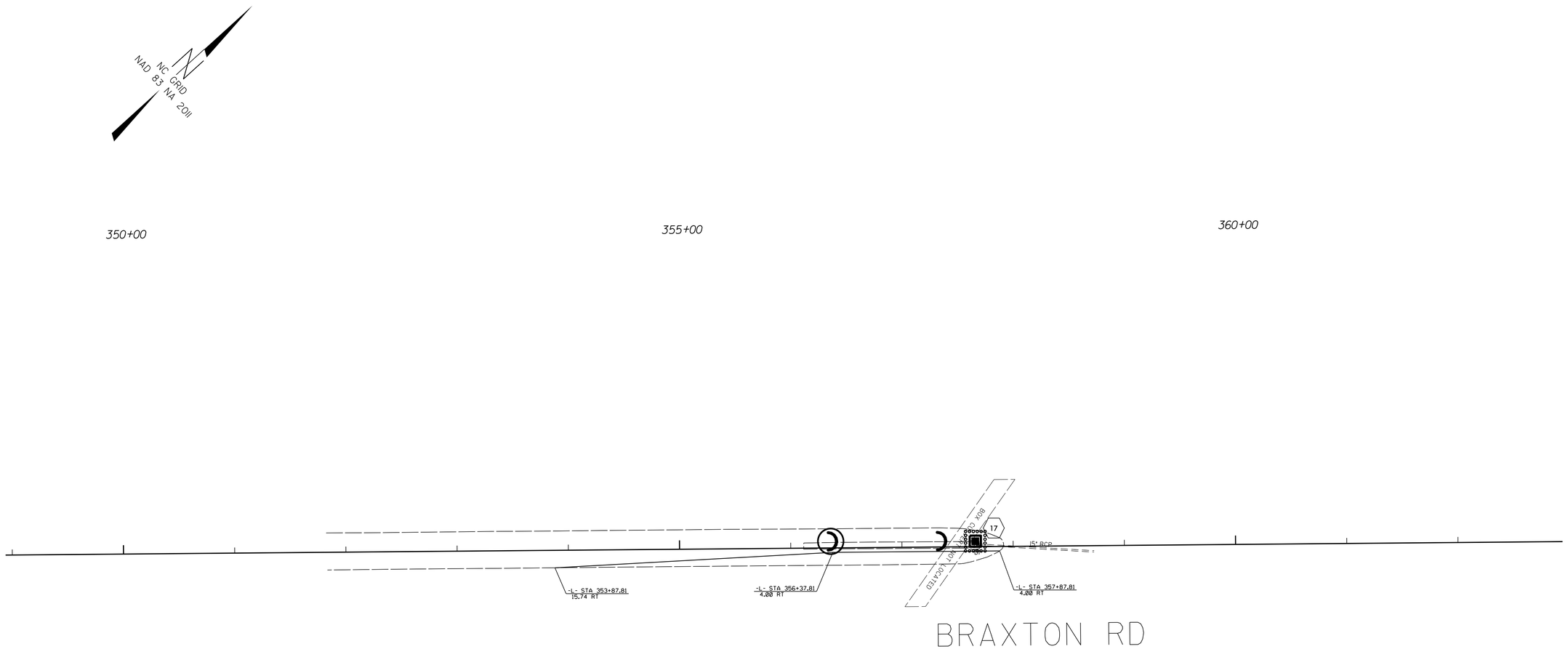
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 15



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.
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Std. #	Description	Symbol
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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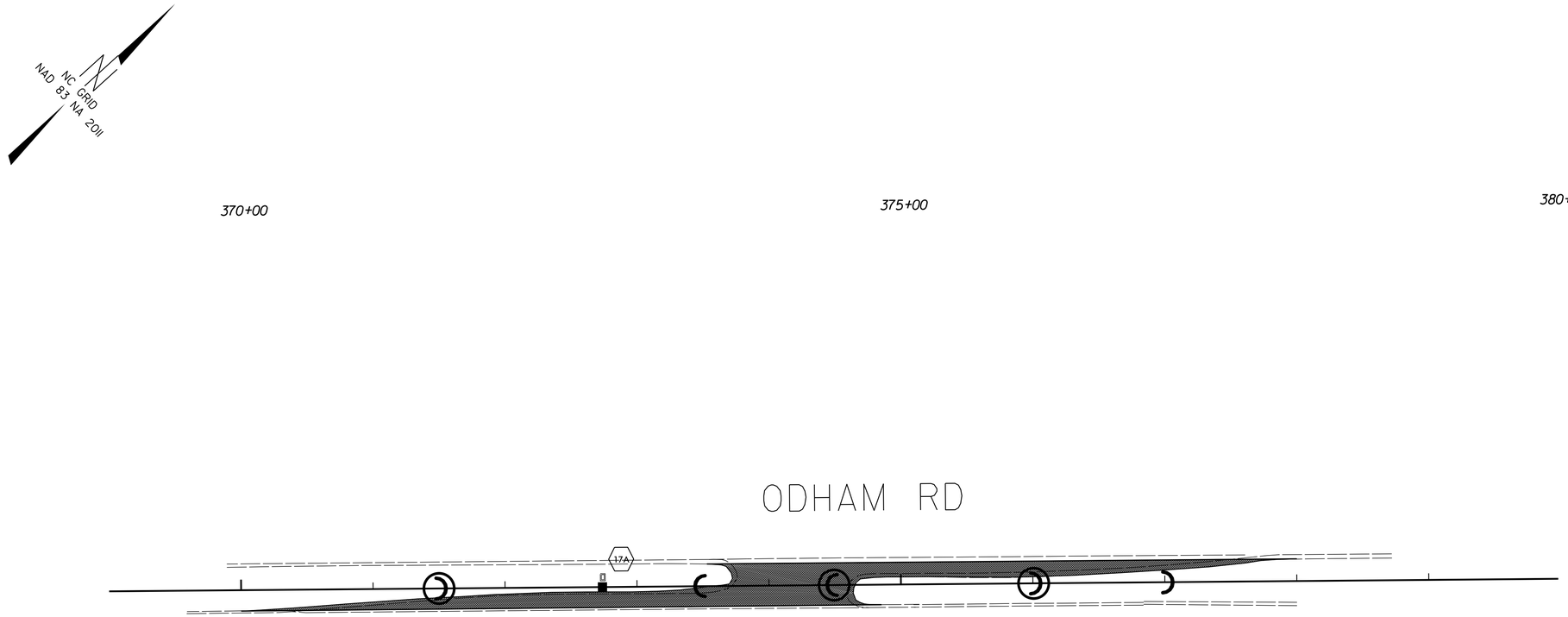
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 15A



SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
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ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

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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
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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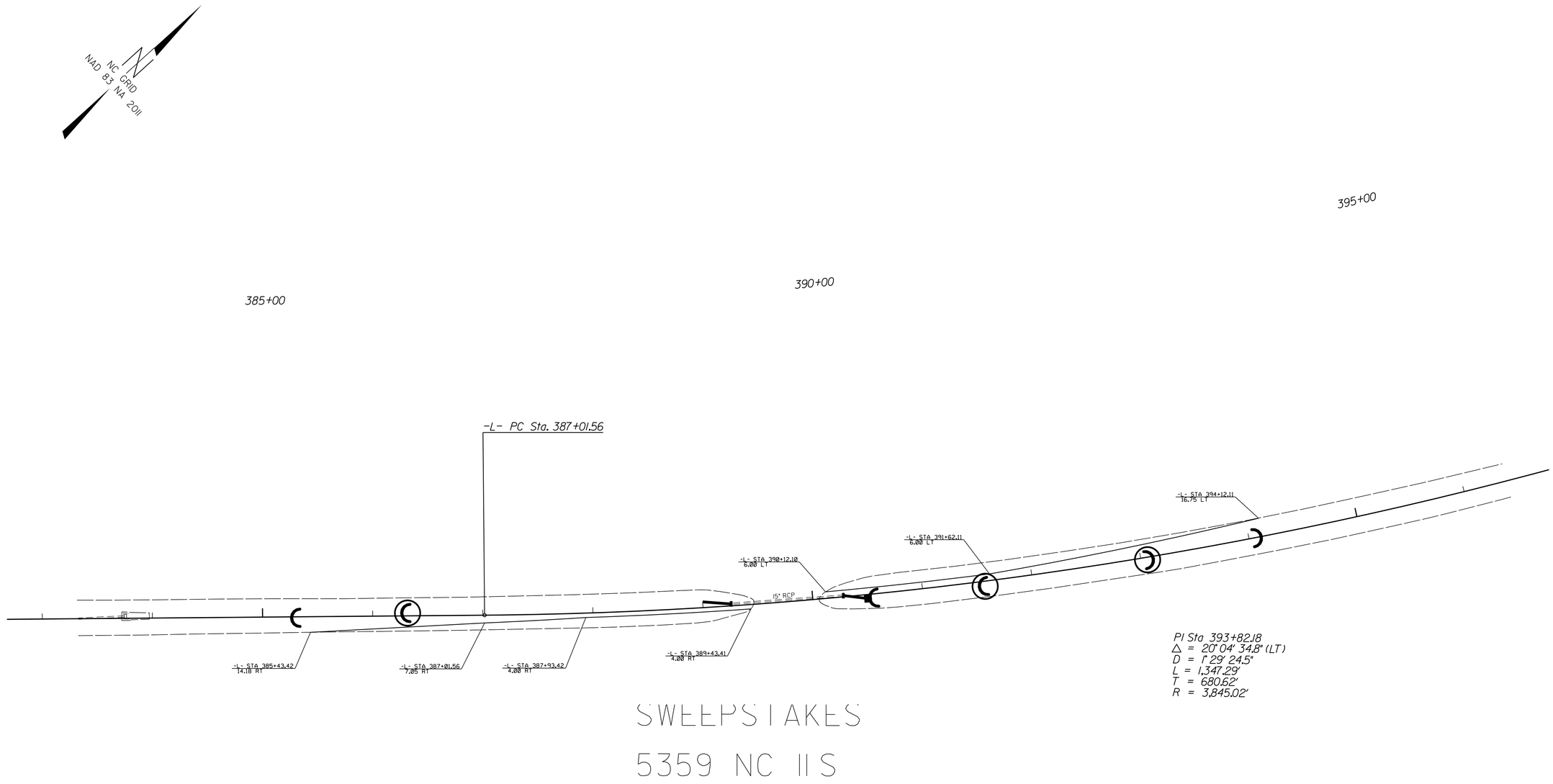
PROJECT REFERENCE NO.	SHEET NO.
W-5202K	EC 16



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 HOW 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
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle with Polyacrylamide	
SP	Wattle	

REVISIONS

8/17/99

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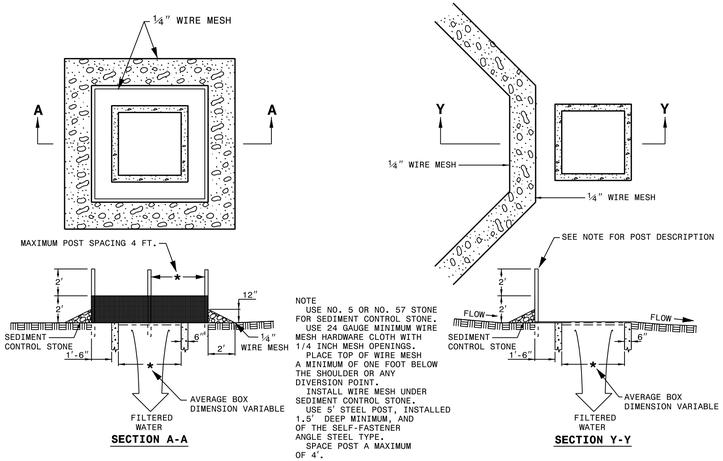
8/17/99

REVISIONS

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

ENGLISH STANDARD DRAWING FOR

ROCK INLET SEDIMENT TRAP TYPE 'C'



SECTION A-A

MULTI-DIRECTIONAL FLOW

NOTE
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
USE 24 GAUGE MINIMUM WIRE MESH HARDWARE CLOTH WITH 1/4 INCH MESH OPENINGS.
PLACE TOP OF WIRE MESH A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE.
USE 5' STEEL POST, INSTALLED 1.5' DEEP MINIMUM, AND OF THE SELF-FASTENER ANGLE STEEL TYPE.
SPACE POST A MAXIMUM OF 4'.

SECTION Y-Y

SINGLE-DIRECTIONAL FLOW

NOT TO SCALE

SHEET 1 OF 1
1632.03

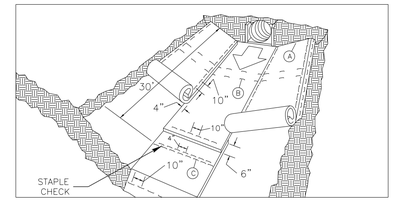
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR

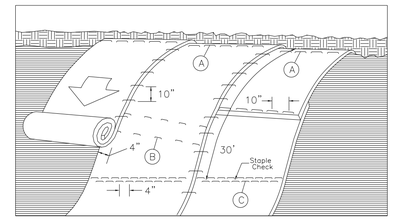
ROCK INLET SEDIMENT TRAP TYPE 'C'

SHEET 1 OF 1
1632.03

MATTING INSTALLATION DETAIL



MATTING IN DITCHES



MATTING ON SLOPES

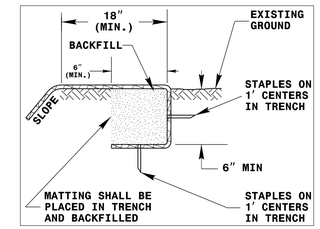
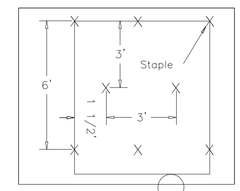


DIAGRAM (A)



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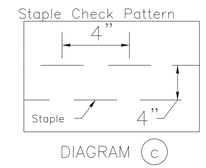


DIAGRAM (C)

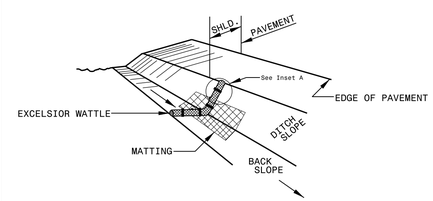
NOTES:

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

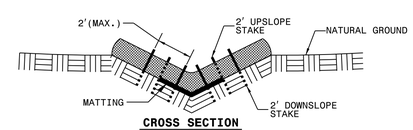
STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

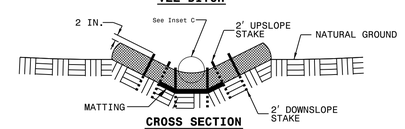
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.

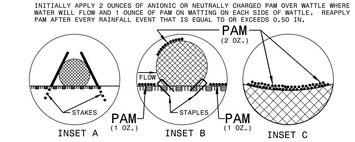
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

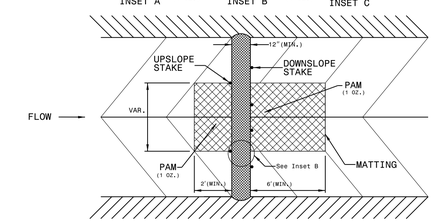
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

NOT TO SCALE

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PROJECT REFERENCE NO.	SHEET NO.
W-5202K	PM 1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, III
Ed Eatmon 6/5/2015
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NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRICE EDWARD EATMON, III
Ed Eatmon 6/5/2015
A405E90A14244A7...

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

AA - THERMOPLASTIC (4" WHITE, 90 MILS) EDGE LINE
AB - THERMOPLASTIC (4" WHITE, 120 MILS) 13' MINI SKIP
AC - THERMOPLASTIC (4" WHITE, 120 MILS) SOLID LANE LINE

PAVEMENT MARKING SYMBOLS

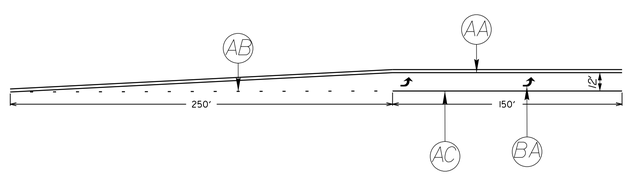
BA - THERMOPLASTIC (LEFT ARROW, 90 MILS)

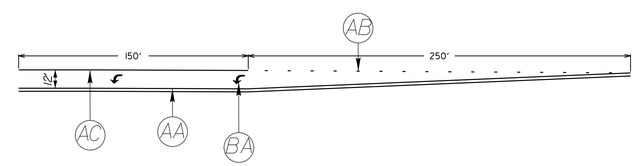
NOTE

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. ALL EDGE LINES SHALL BE 2' OFF EOP.

PAVEMENT MARKINGS ARE TYPICAL FOR EACH LEFT TURN LANE SECTION

NORTH OF INDUSTRIAL PARK





REVISIONS

8/17/99

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS-SECTION SUMMARY

IN CUBIC YARDS

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
15+00.00	1		2
15+50.00	4		11
16+00.00	8		19
16+50.00	11		25
17+00.00	9		30
17+50.00	6		53
17+55.00	0		7
18+00.00	7		42
18+50.00	9		11
22+00.00	0		0
22+50.00	4		1
23+00.00	11		6
23+50.00	14		17
24+00.00	9		31
24+50.00	8		39
25+00.00	6		55
25+13.00	1		19
25+50.00	4		36
28+50.00	0		0
29+00.00	4		22
29+50.00	5		24
30+00.00	4		31
30+50.00	5		39
31+00.00	4		59
31+17.00	1		29
31+50.00	4		42
32+00.00	12		18
32+17.71	3		0

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
33+00.00	0		0
33+20.00	1		12
33+50.00	2		32
34+00.00	5		44
34+50.00	6		35
35+00.00	5		33
35+50.00	6		29
36+00.00	7		23
36+50.00	7		16
36+97.85	2		6
42+50.00	0		0
42+69.00	2		18
43+00.00	5		25
43+50.00	14		21
44+00.00	15		14
44+50.00	12		13
45+00.00	9		13
45+50.00	7		14
46+00.00	4		22
46+06.49	0		2
69+00.00	0		0
69+50.00	4		10
70+00.00	6		20
70+50.00	7		24
71+00.00	7		40
71+50.00	10		33
72+00.00	11		20
72+50.00	9		29
72+75.00	4		16

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
86+00.00	0		0
86+11.00	1		12
86+50.00	5		39
87+00.00	7		42
87+50.00	6		43
88+00.00	5		35
88+50.00	5		31
88+81.00	2		21
89+00.00	1		11
89+50.00	3		16
89+51.69	0		0
91+00.00	0		0
91+50.00	5		5
92+00.00	8		13
92+50.00	9		19
93+00.00	9		23
93+50.00	9		27
94+00.00	8		30
94+26.00	3		20
94+50.00	3		15
94+87.52	3		6

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
95+94.00	0		0
96+00.00	1		4
96+50.00	9		32
97+00.00	12		25
97+50.00	11		25
98+00.00	11		24
98+31.51	7		15
98+50.00	4		9
99+00.00	9		26
99+50.00	8		29
99+56.04	1		4
99+72.00	2		11
100+00.00	5		17
100+50.00	10		28
101+00.00	10		31
101+44.00	10		35
101+50.00	1		5
102+00.00	8		26
102+31.51	2		3
119+50.00	0		0
120+00.00	14		39
120+50.00	16		33
121+00.00	15		33
121+50.00	16		29
122+00.00	20		20
122+50.00	18		11
123+00.00	10		6
123+04.83	0		0

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

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

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PROJ. REFERENCE NO.	SHEET NO.
W-5202K	X-2A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS-SECTION SUMMARY

IN CUBIC YARDS

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
129+00.00	0		0
129+50.00	11		39
130+00.00	14		56
130+50.00	13		61
131+00.00	11		56
131+50.00	9		46
132+00.00	7		41
132+50.00	3		39
132+81.78	1		11
152+00.00	0		0
152+50.00	11		18
153+00.00	11		25
153+50.00	8		34
153+70.00	3		17
154+00.00	6		19
154+50.00	13		12
155+00.00	12		9
178+00.00	0		0
178+50.00	5		18
179+00.00	6		45
179+15.00	1		22
179+50.00	3		53
180+00.00	7		52
180+50.00	9		34
181+00.00	7		27
181+50.00	5		23

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
240+50.00	0		0
240+75.00	1		17
241+00.00	2		18
241+50.00	8		27
242+00.00	9		28
242+50.00	10		33
243+00.00	10		34
243+50.00	10		31
244+00.00	7		35
245+00.00	0		0
245+50.00	8		19
246+00.00	14		19
246+50.00	15		16
247+00.00	13		18
247+50.00	10		20
248+00.00	7		20
248+50.00	5		17
277+00.00	0		0
277+50.00	4		16
278+00.00	6		22
278+50.00	7		25
279+00.00	6		28
279+50.00	6		30
280+00.00	6		28
280+50.00	8		21

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
300+50.00	0		0
301+00.00	4		11
301+50.00	6		15
302+00.00	8		17
302+50.00	10		18
303+00.00	13		17
303+50.00	11		23
303+73.00	3		21
304+00.00	5		20
354+00.00	0		0
354+50.00	4		8
355+00.00	6		10
355+50.00	8		14
356+00.00	8		19
356+50.00	10		19
357+00.00	11		17
357+50.00	11		17
357+66.00	3		6

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
370+00.00	0		0
370+50.00	10		1
371+00.00	27		1
371+50.00	41		1
372+00.00	52		1
372+50.00	57		0
372+75.00	27		0
373+00.00	24		1
373+50.00	53		3
374+00.00	77		0
374+50.00	89		0
375+00.00	58		2
375+50.00	34		4
376+00.00	36		3
376+50.00	35		1
377+00.00	29		2
377+50.00	21		10
378+00.00	8		8
385+50.00	0		0
386+00.00	6		12
386+50.00	11		14
387+00.00	14		18
387+50.00	15		23
388+00.00	15		28
388+50.00	14		31
389+00.00	14		26
390+50.00	0		0
391+00.00	8		34
391+50.00	5		33
392+00.00	6		24
392+50.00	6		23
393+00.00	5		24
393+50.00	5		18
394+00.00	4		14

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

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

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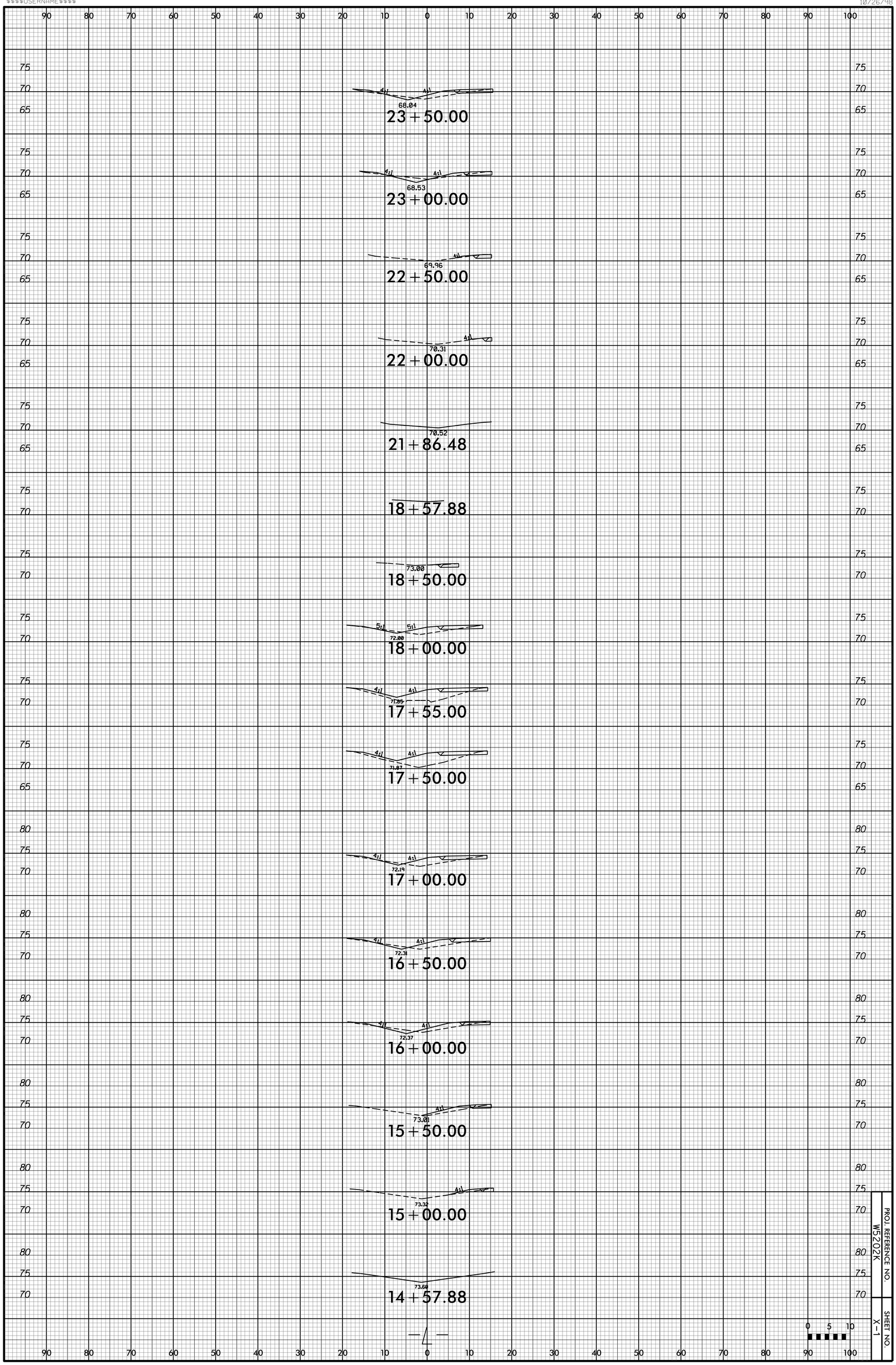
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18+50.00
73.00
18+00.00
72.00
17+55.00
71.85
17+50.00
71.97
17+00.00
72.19
16+50.00
72.31
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72.37
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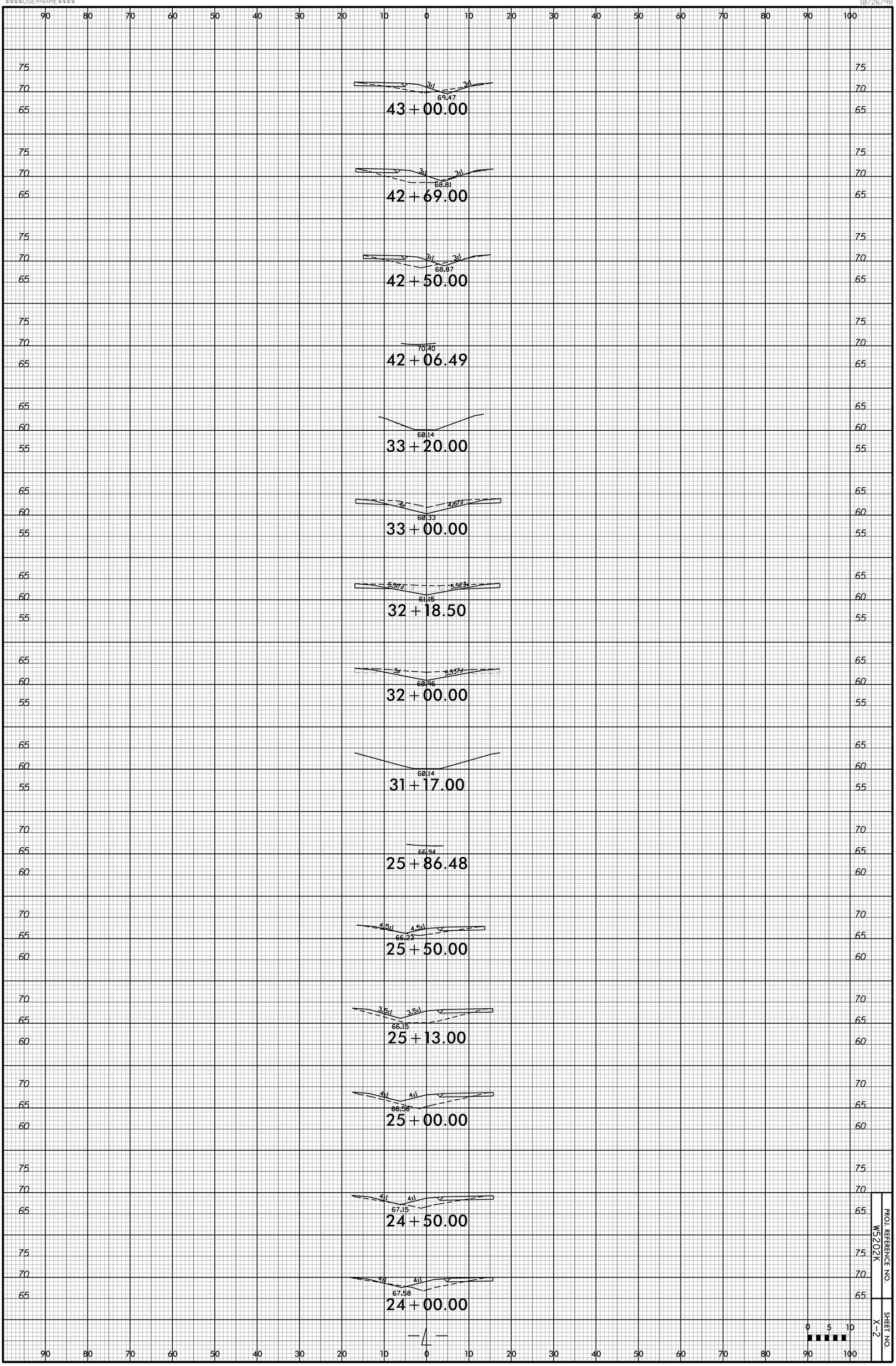
PROJ. REFERENCE NO.
W5202K
SHEET NO.
X-1



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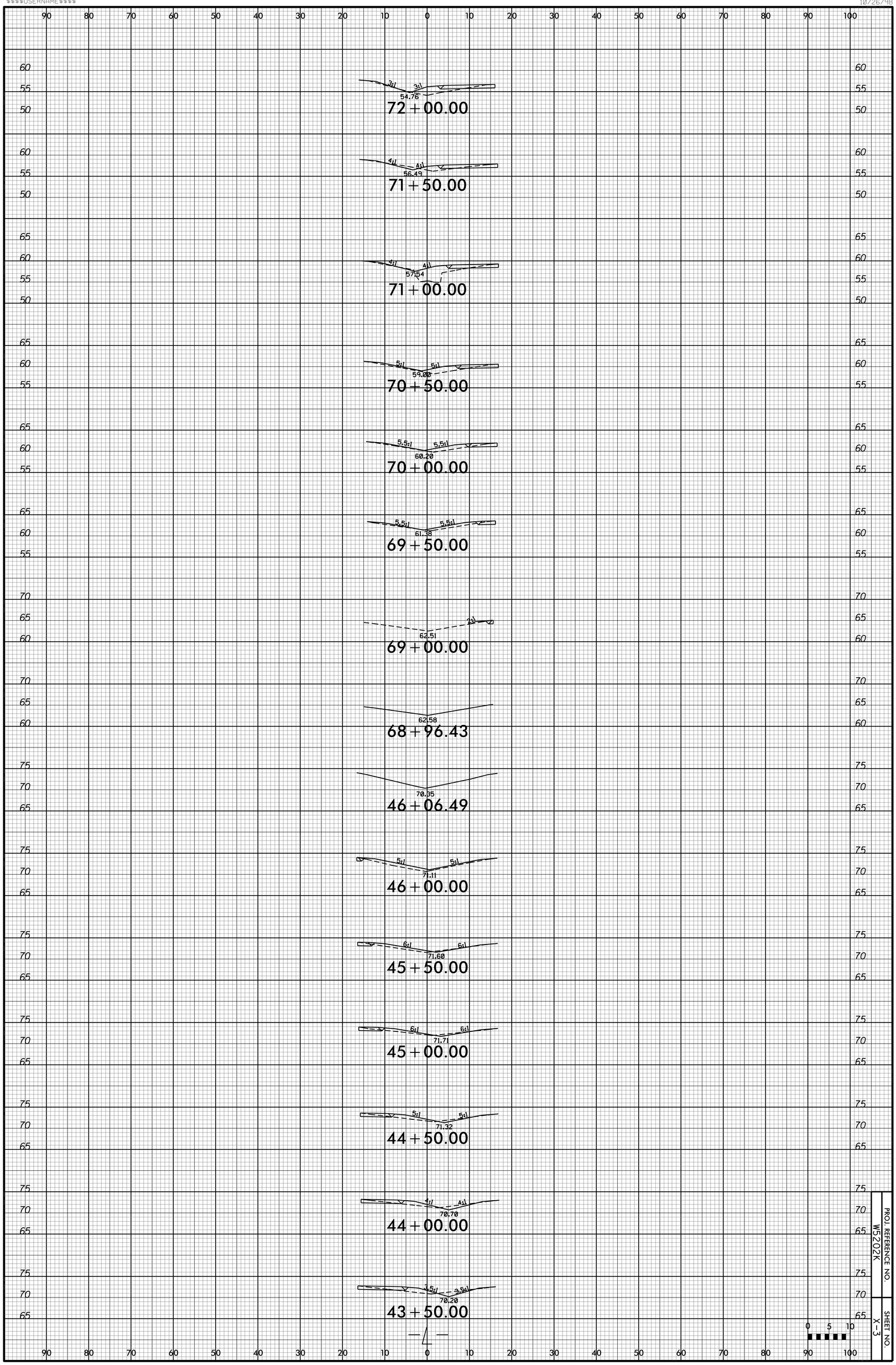

PROJ. REFERENCE NO. W5202K

SHEET NO. X-3

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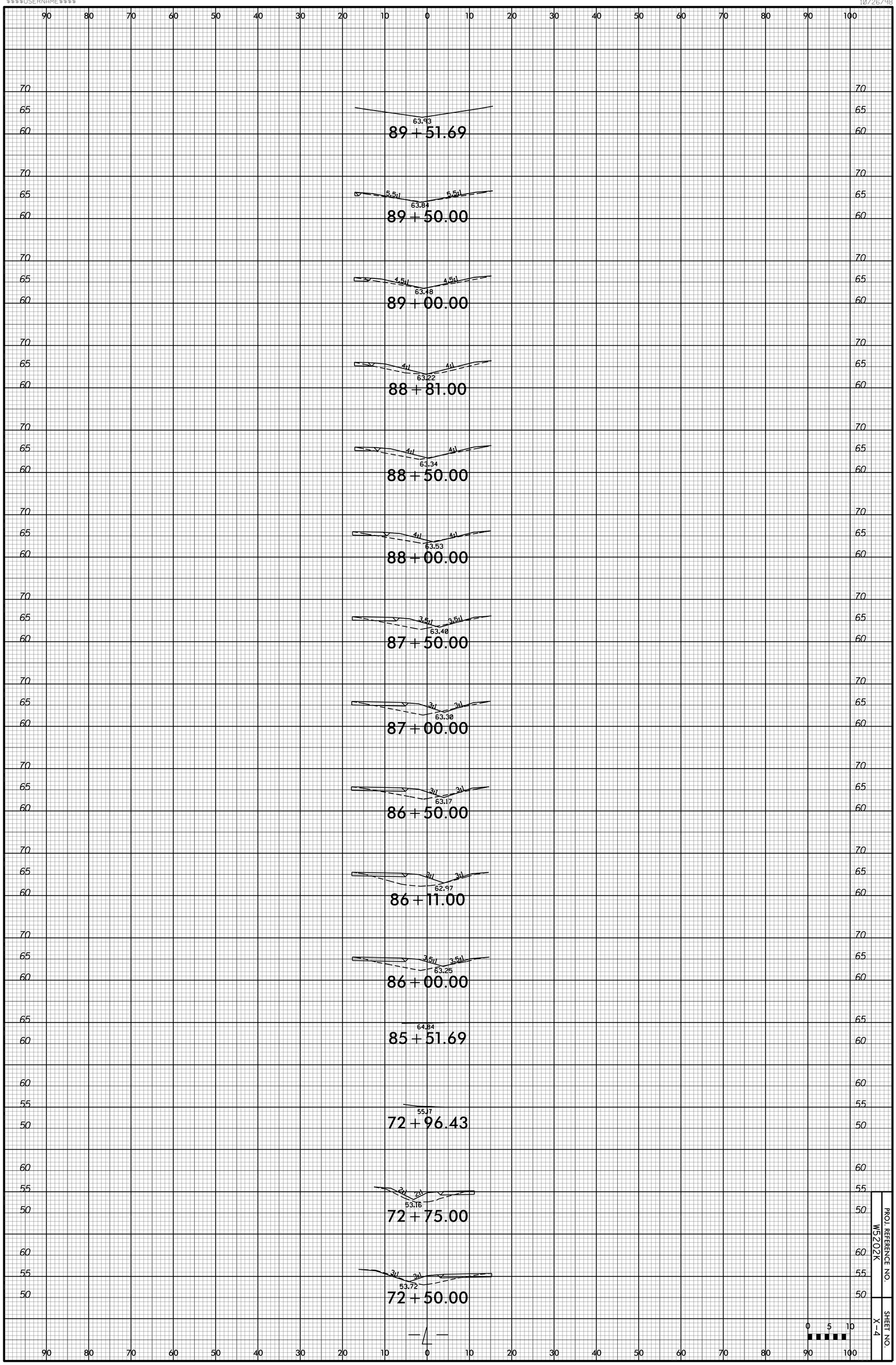

PROJ. REFERENCE NO. W5202K

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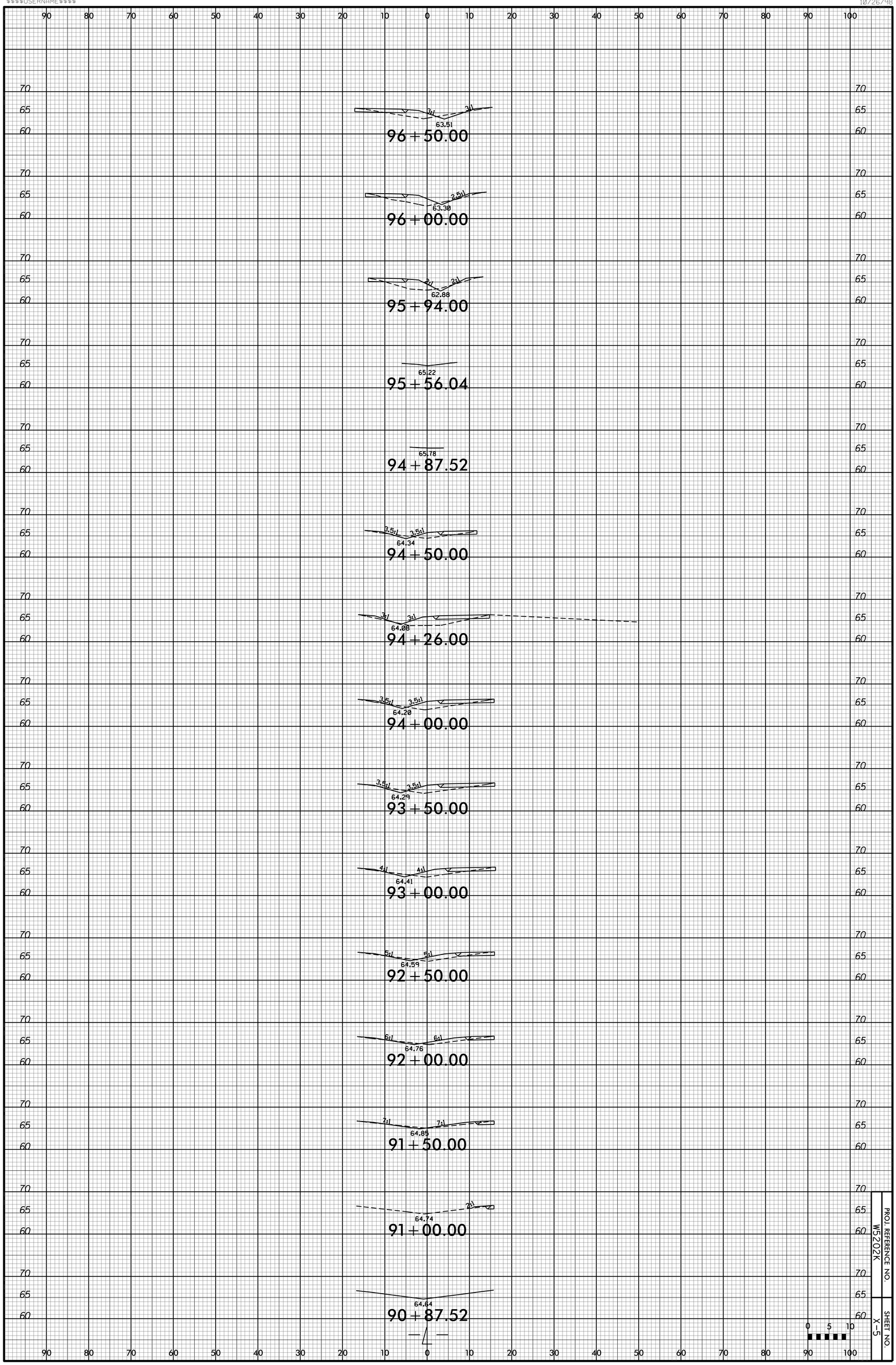

PROJ. REFERENCE NO.
W5202K

SHEET NO.
X-5

23-MAY-2016 11:51
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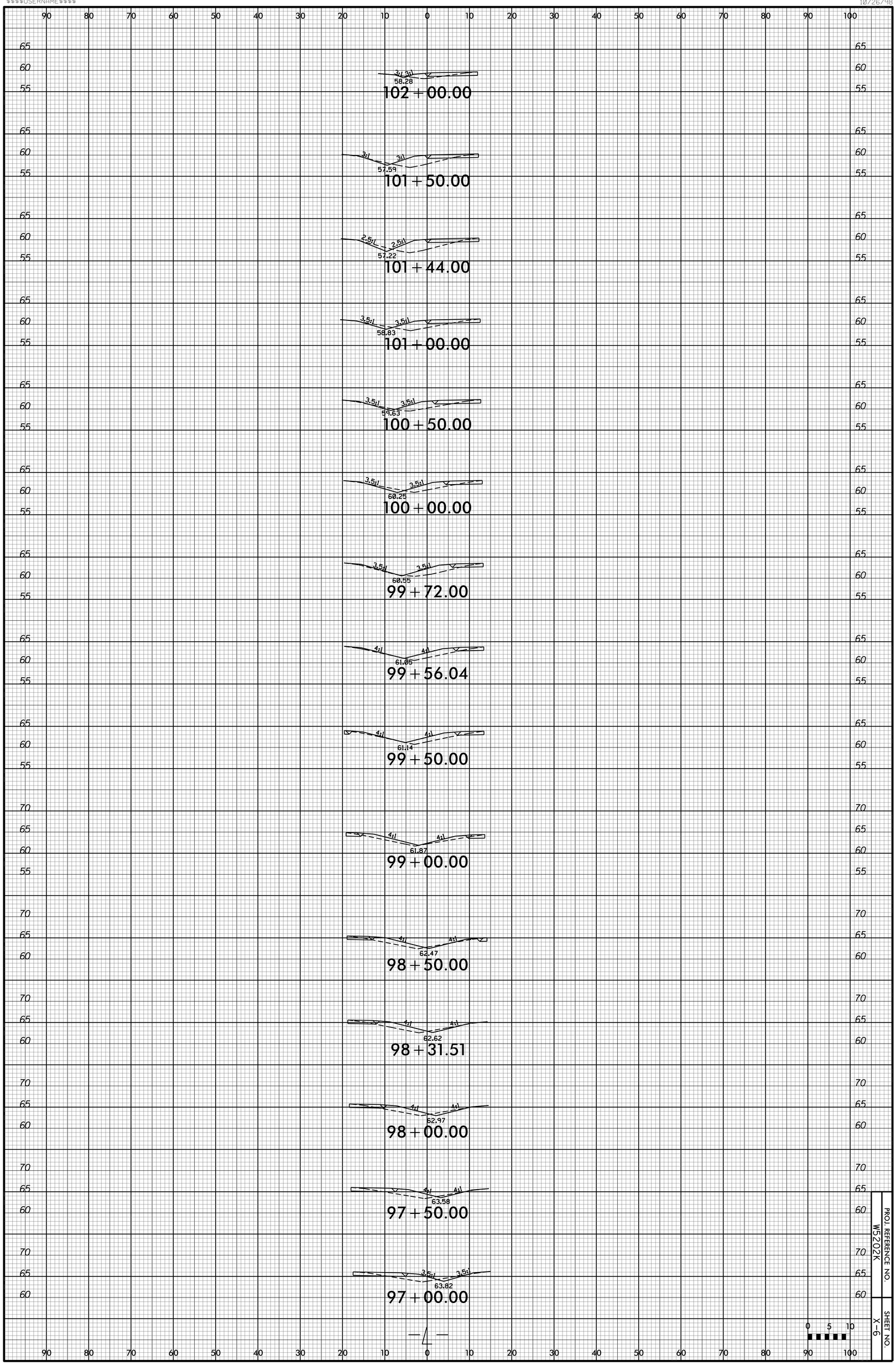
$$$$USERNAME$$$$

10/26/98



PROJ. REFERENCE NO. W5202K

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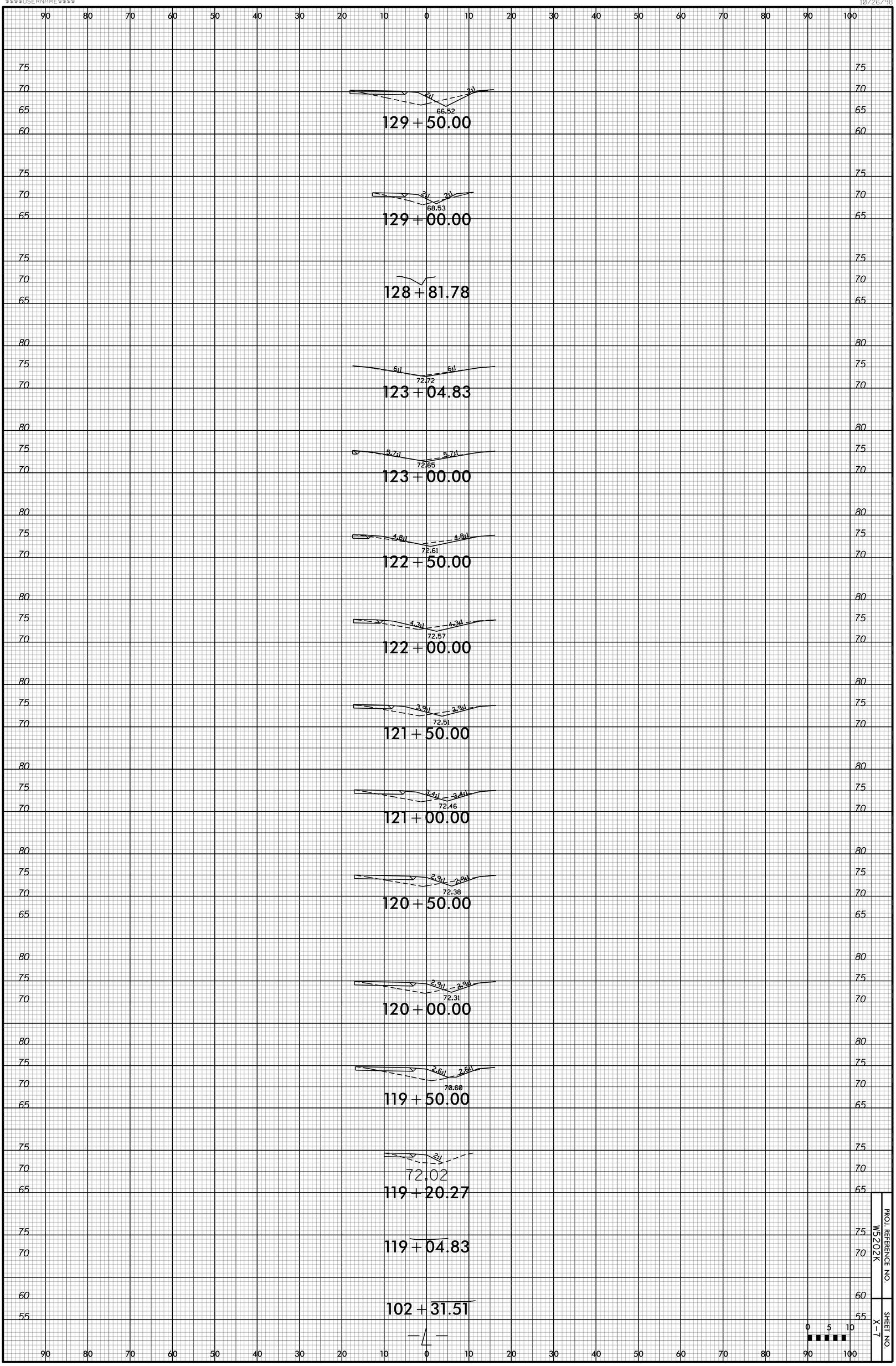

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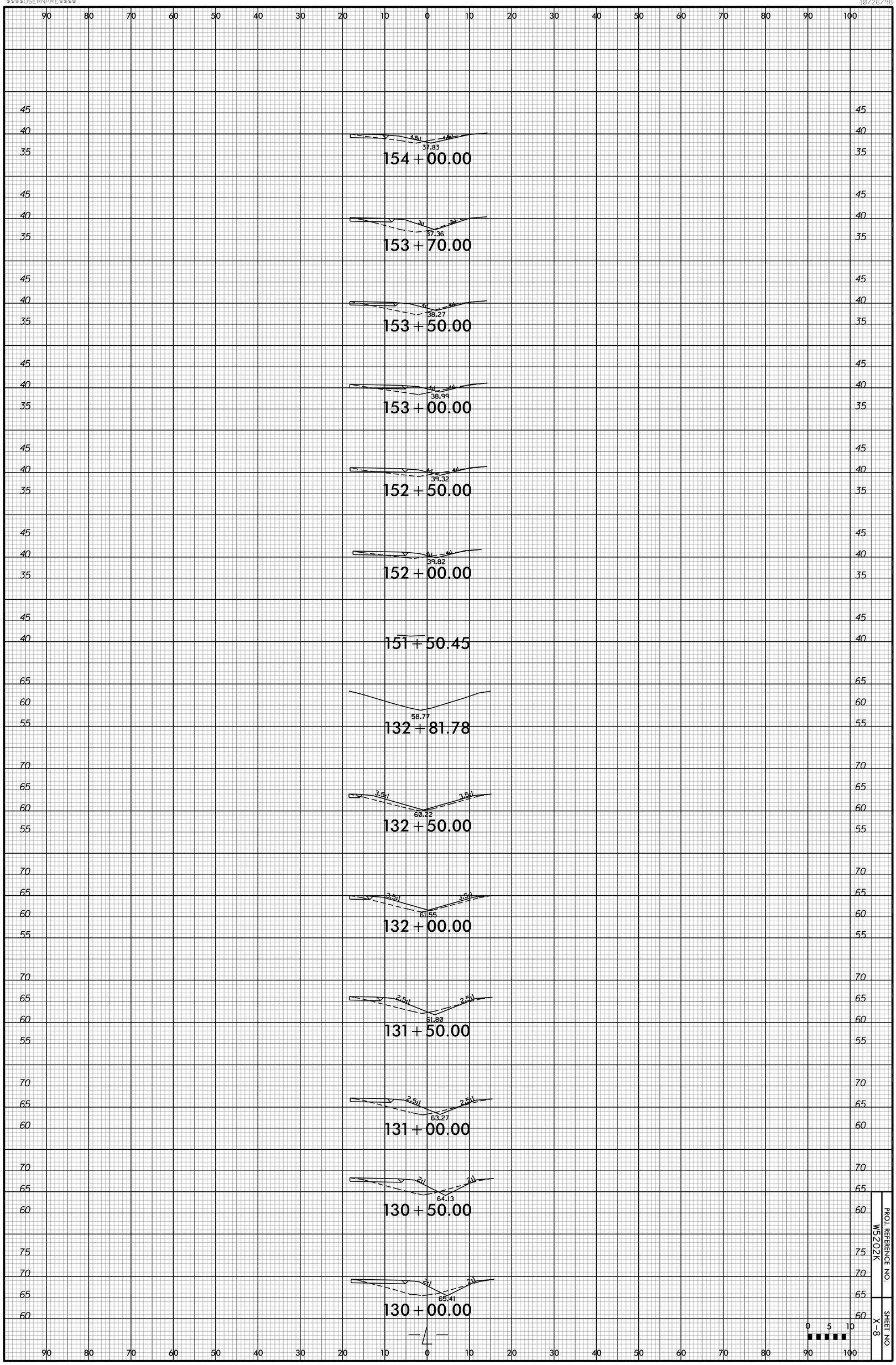

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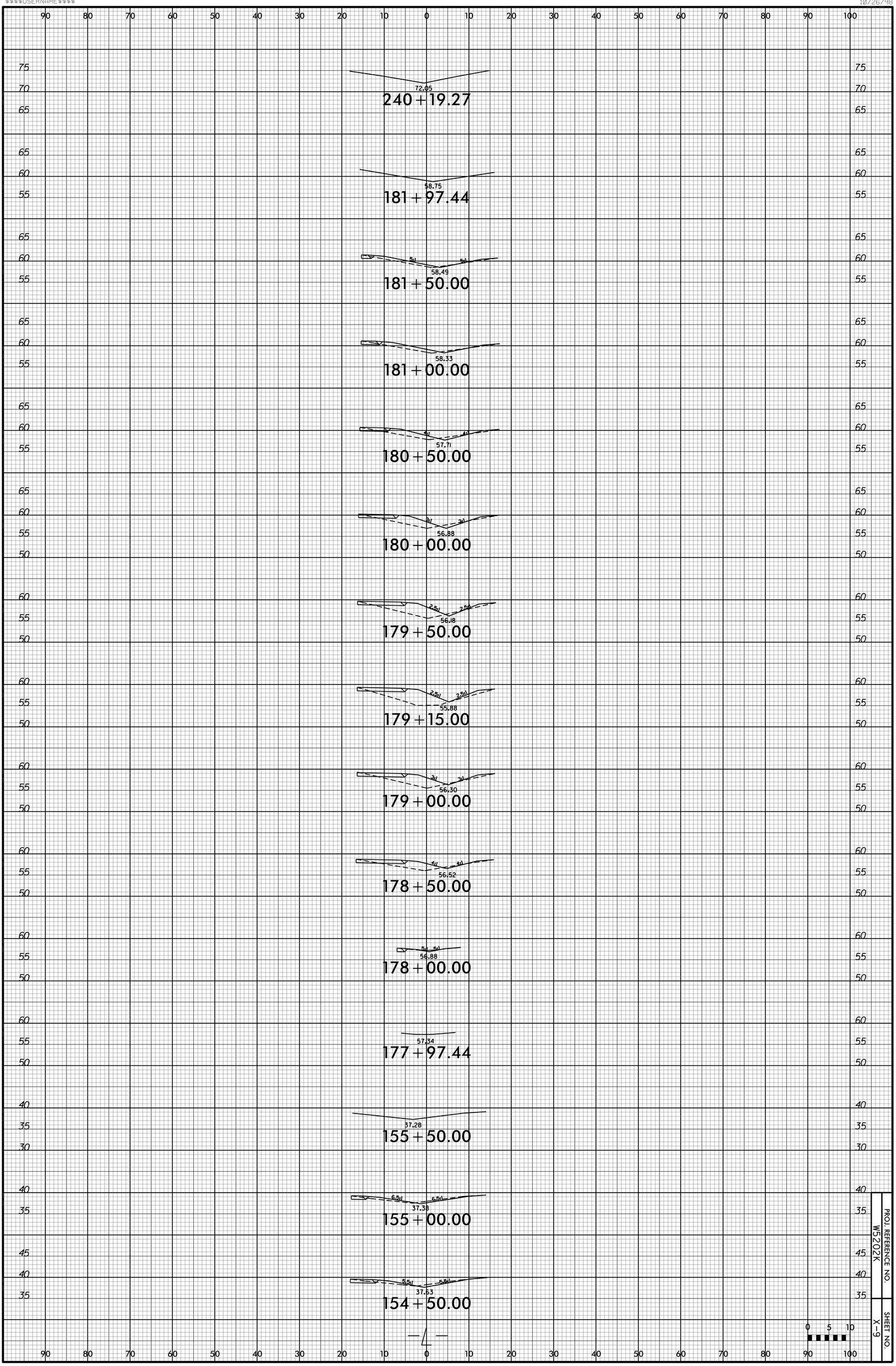

PROJ. REFERENCE NO. W5202K

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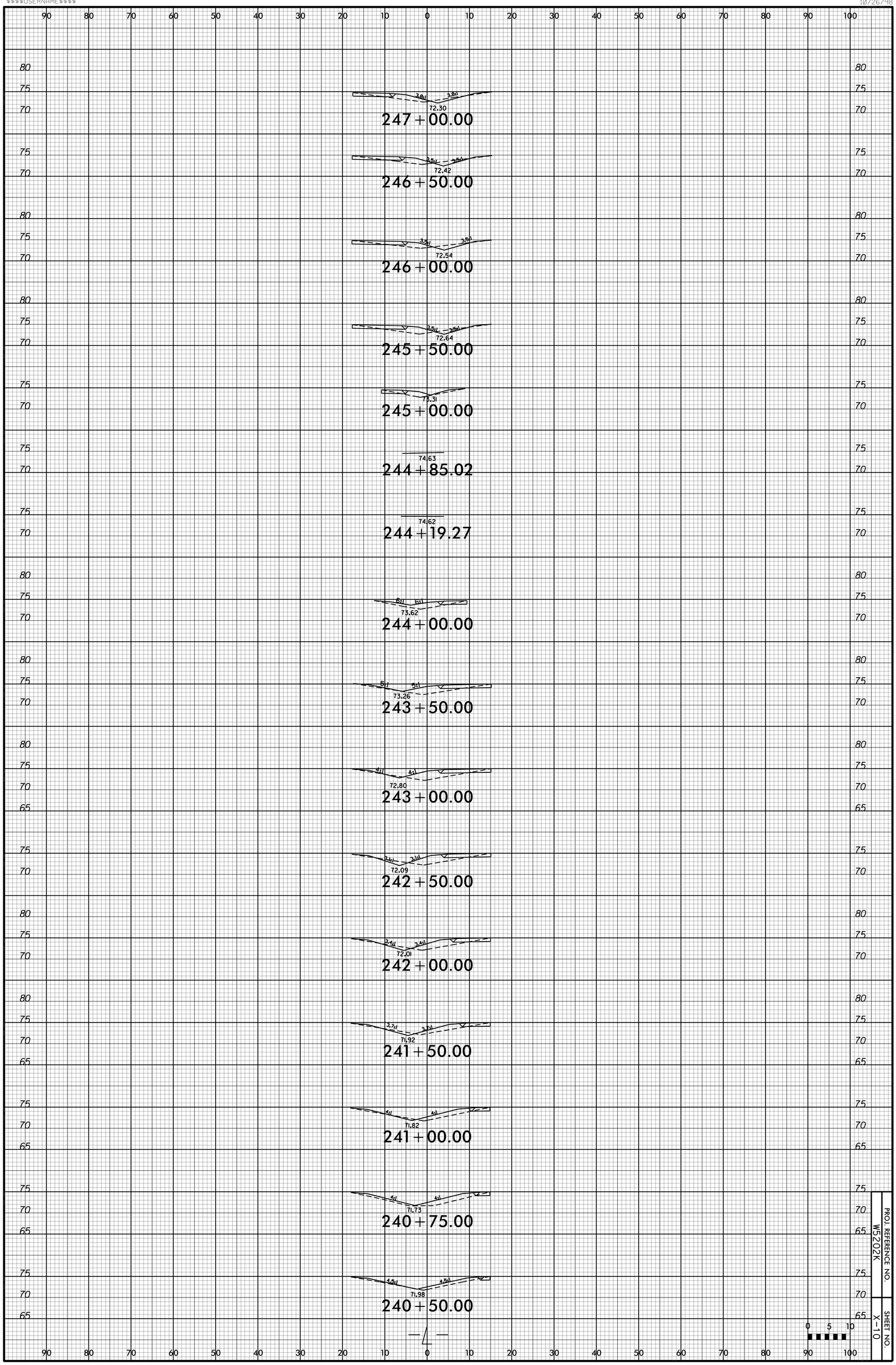

PROJ. REFERENCE NO. W5202K

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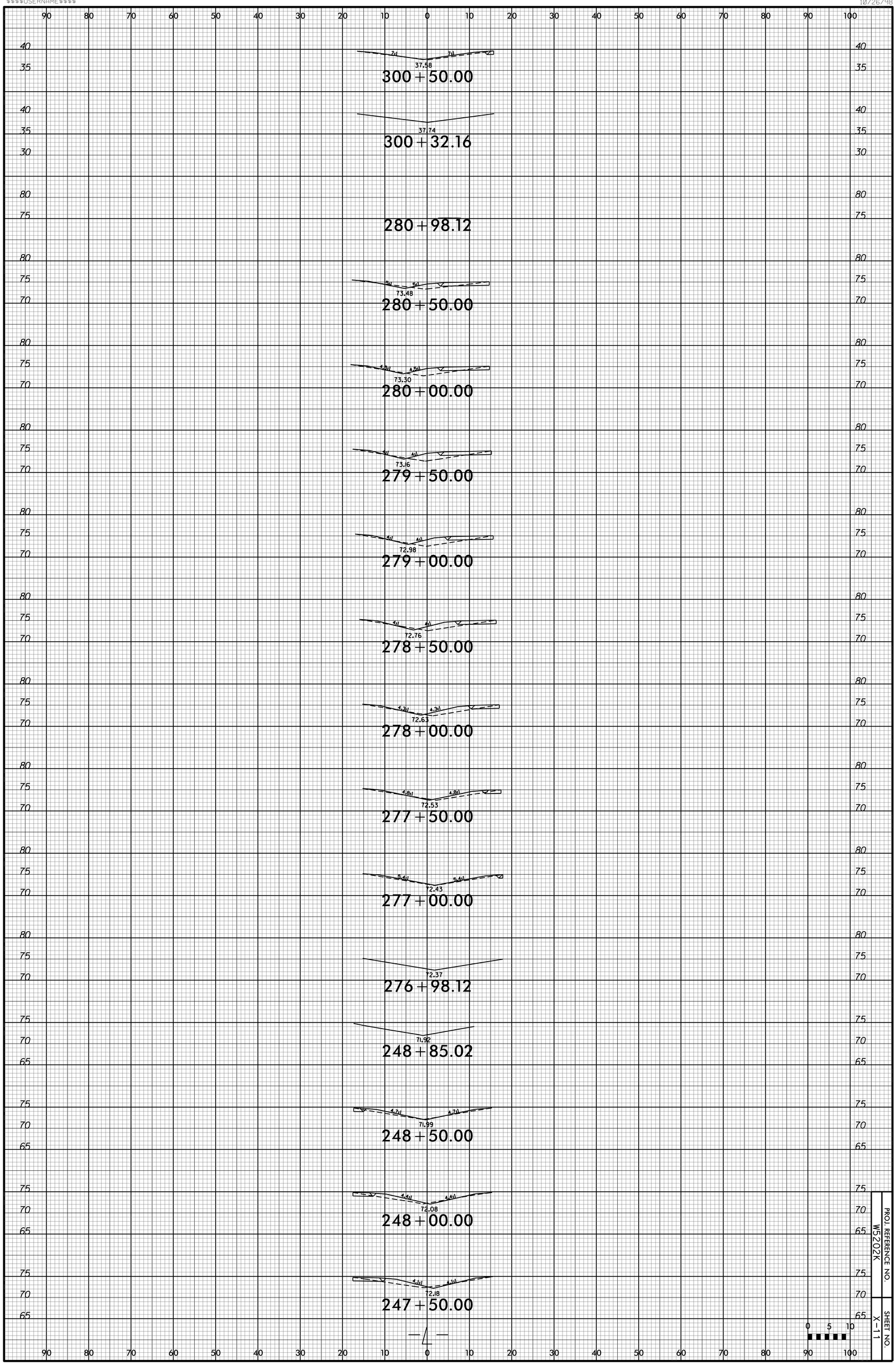

PROJ. REFERENCE NO. W5202K

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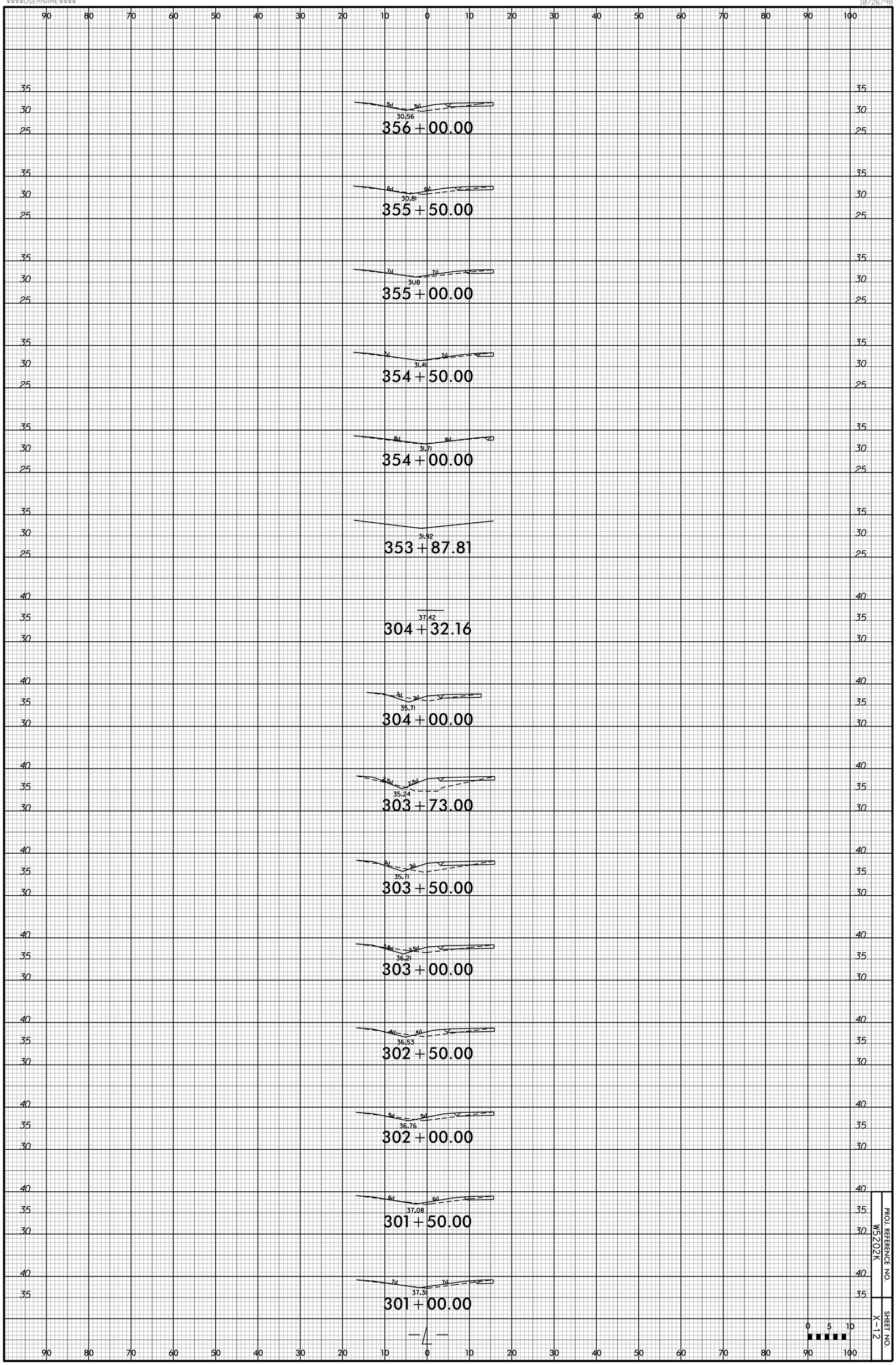

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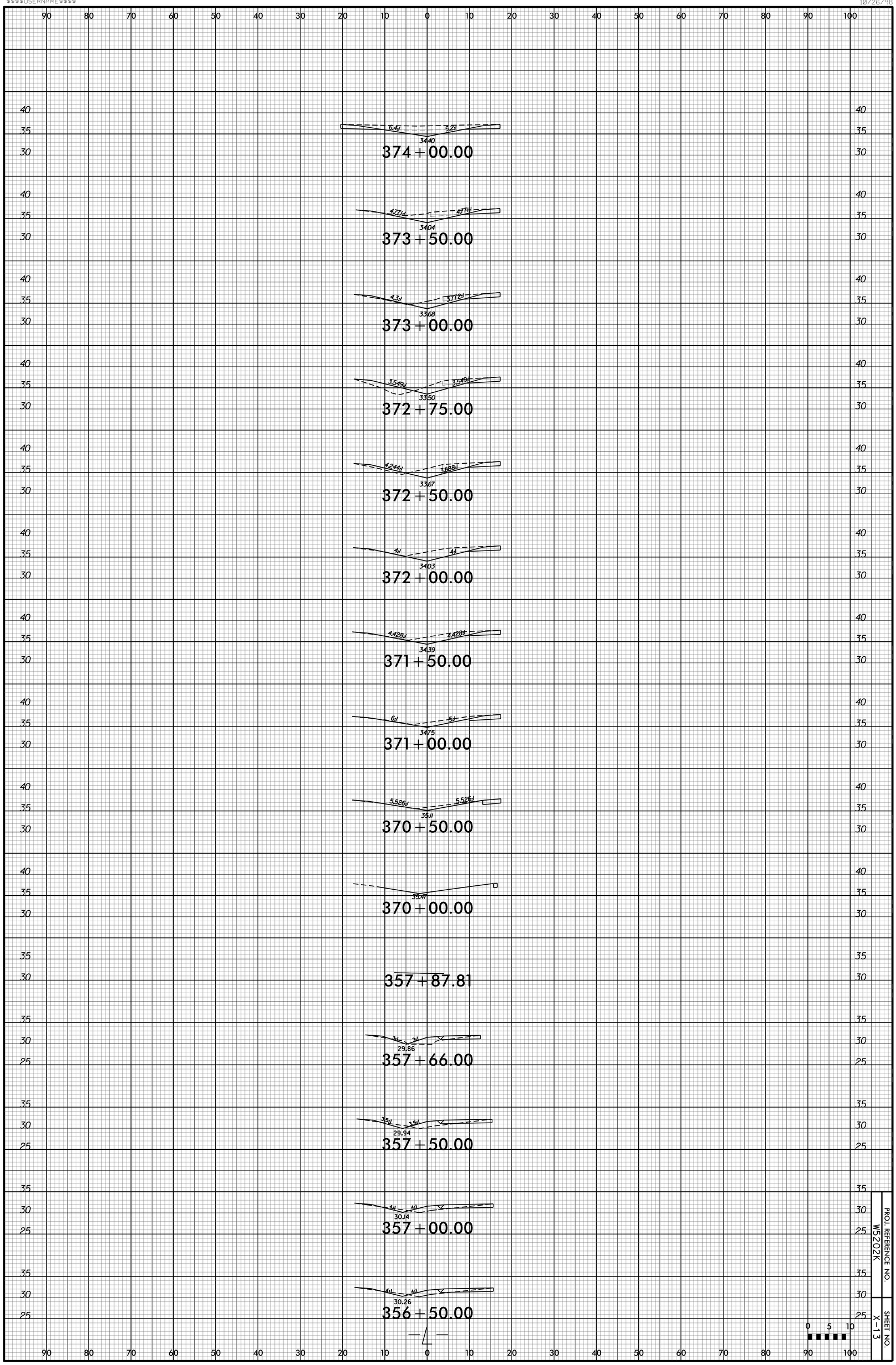
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3367
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PROJ. REFERENCE NO.
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SHEET NO.
X-13
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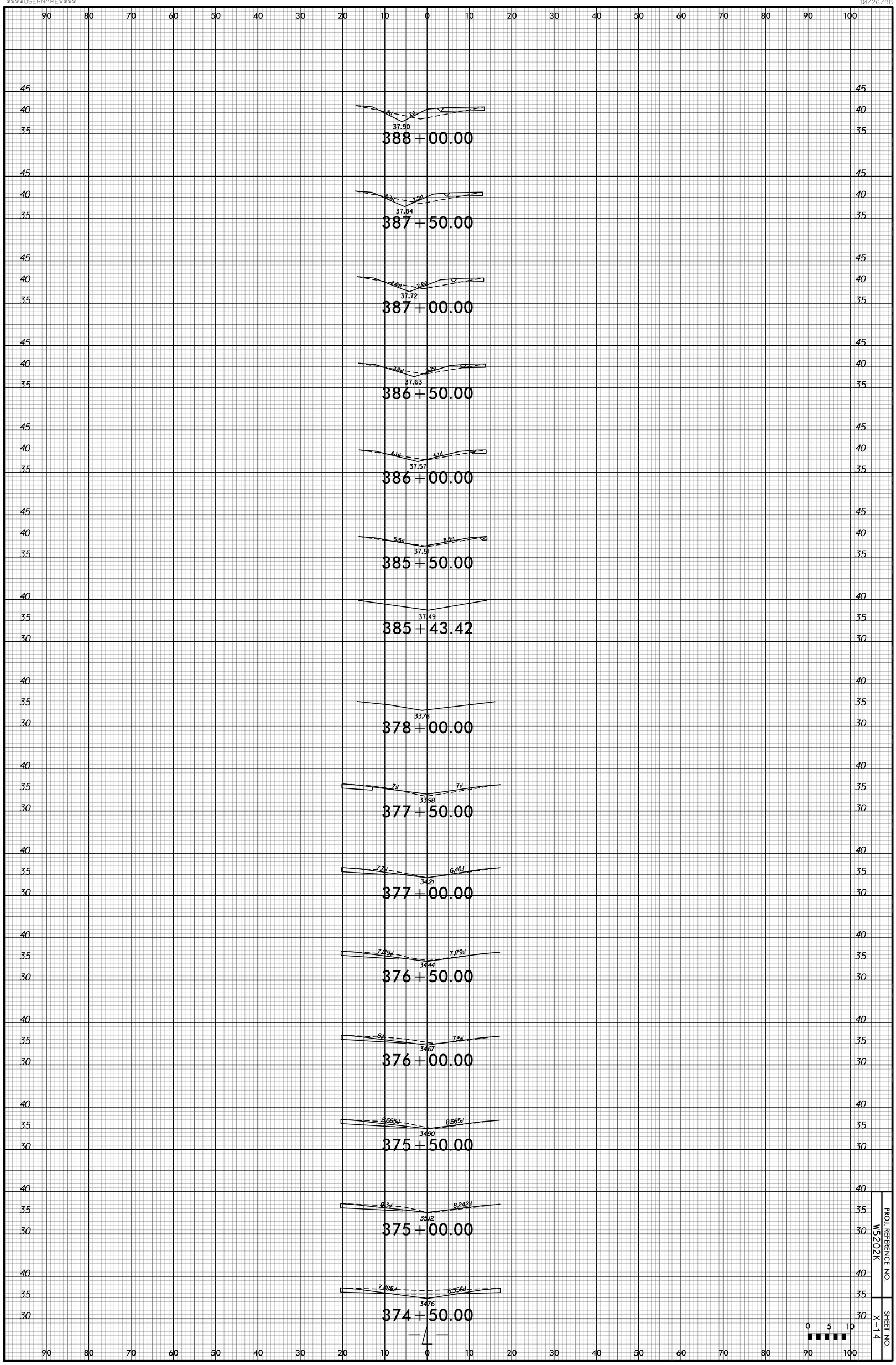
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PROJ. REFERENCE NO.
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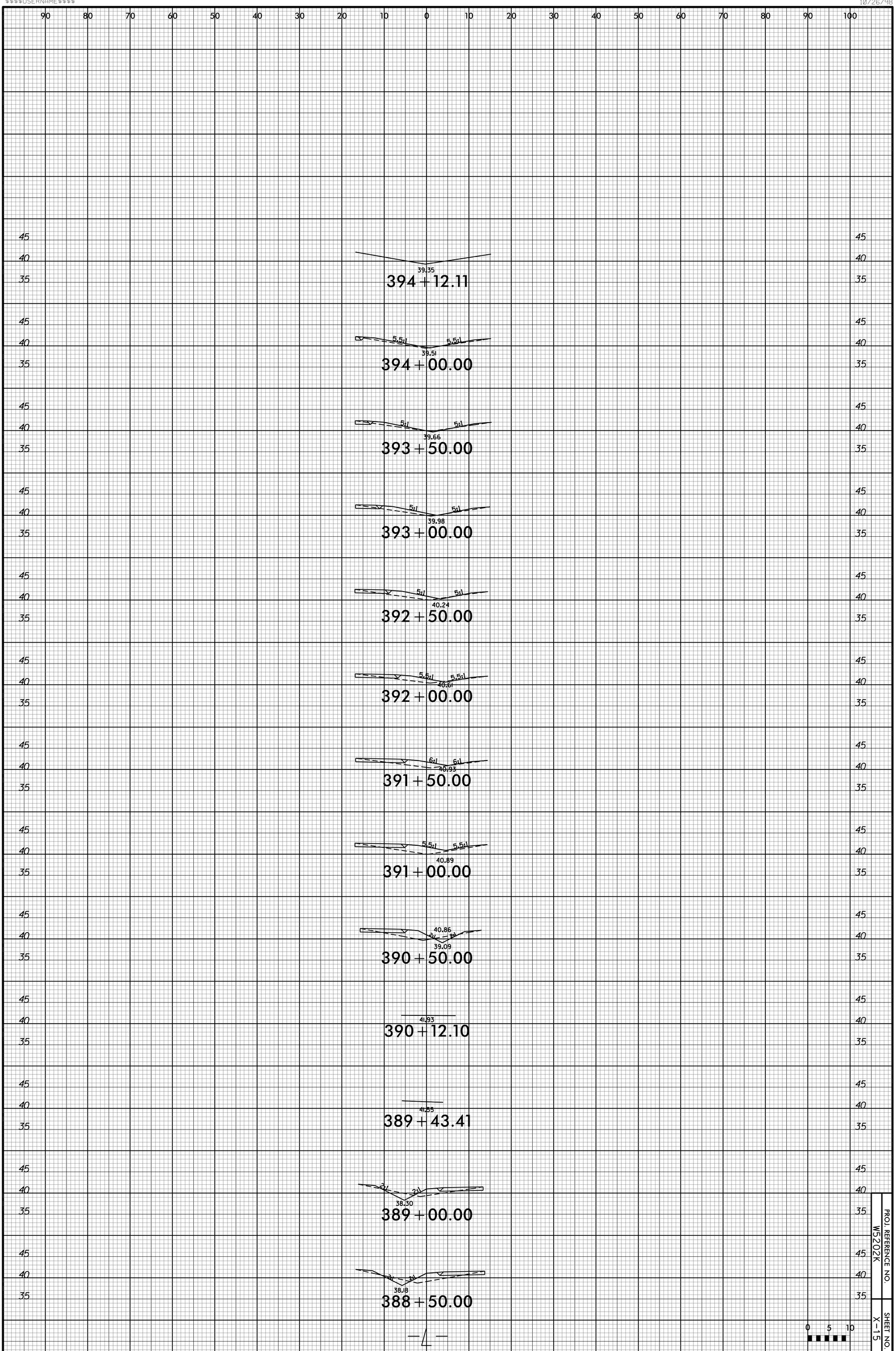
SHEET NO.
X-14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0 5 10
PROJ. REFERENCE NO.
W5202K
SHEET NO.
X-15