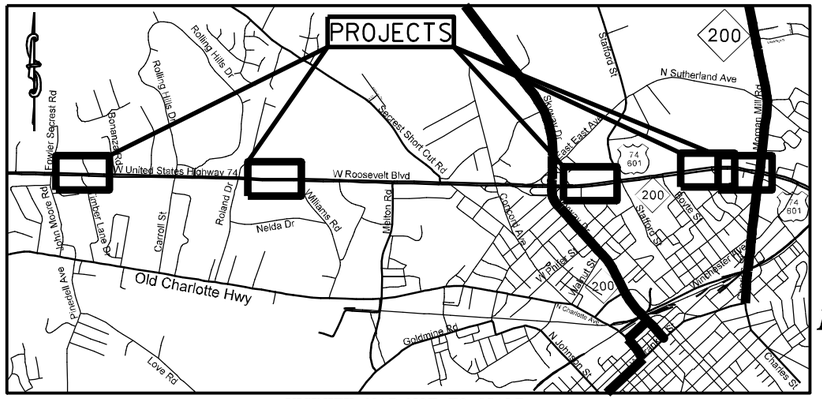
TIP:W-5210L

PROJECT: 45340.3.12



VICINITY MAP NOT TO SCALE

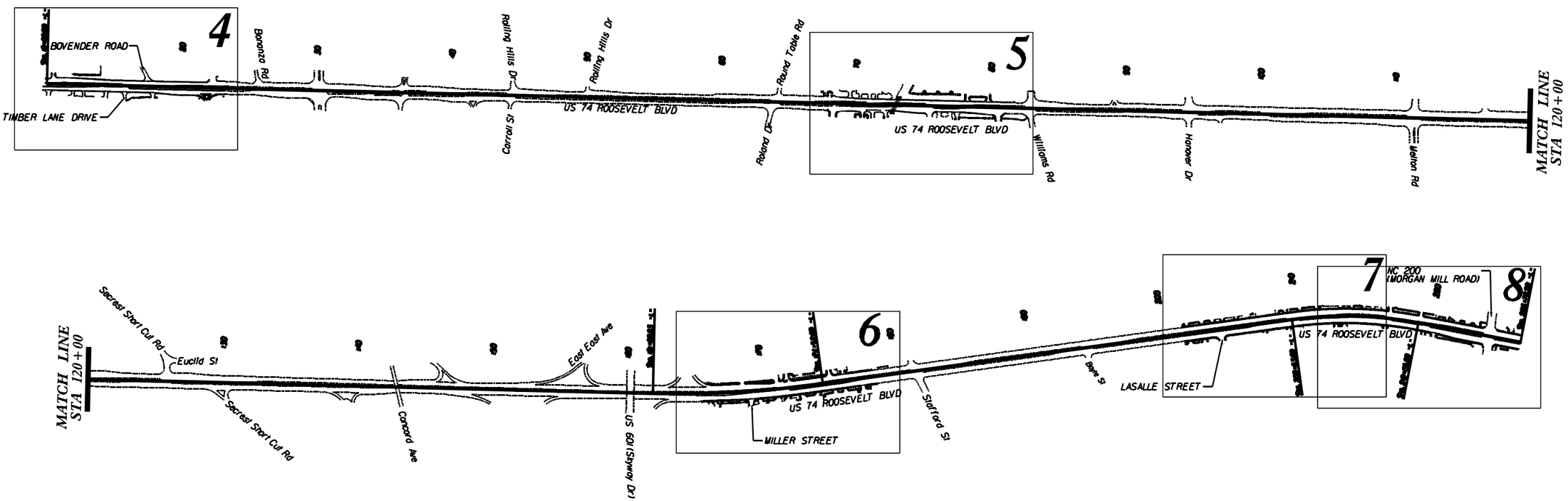
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
UNION COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45340.1.FS12	HSIP-0074(157)	P.E.
45340.2.12	HSIP-0074(157)	R/W
45340.3.12	HSIP-0074(157)	CONST.

LOCATION: US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS BETWEEN FOWLER SECREST ROAD (SR-1510) AND NC 200 (MORGAN MILL ROAD)

TYPE OF WORK: GRADING, PAVING, MILLING, DRAINAGE, CONCRETE MONOLITHIC ISLANDS, AND THERMOPLASTIC PAVEMENT MARKINGS,



GRAPHIC SCALES

0 50 100 PLANS

0 50 100 PROFILE (HORIZONTAL)

0 5 10 PROFILE (VERTICAL)

DESIGN DATA

ADT _____ = _____

ADT _____ = _____

DHV = ___ %

D = ___ %

T = ___ %

V = ___ MPH

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 45340.3.12 = 4.11 MILES

TOTAL LENGTH OF STATE PROJECT 45340.3.12 = 4.11 MILES

Prepared in the Office of:

DIVISION OF HIGHWAYS

DIVISION TEN

DIVISION DESIGN / CONSTRUCT UNIT

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: _____

LETTING DATE: May 25, 2016

RANDY BOWERS
PROJECT ENGINEER

DONALD HARWARD
PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

DocuSigned by:
Randy Bowers
52A4A66079864B2...
4/29/2016

APPROVED BY:
DDC ENGINEER — DATE

$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

12/05/11

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
- Property Corner
- Property Monument
- Parcel/Sequence Number
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary
- Proposed Wetland Boundary
- Existing Endangered Animal Boundary
- Existing Endangered Plant Boundary
- 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
- Well
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

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

RAILROADS:

- Standard Gauge
- RR Signal Milepost
- 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
- Proposed Right of Way Line with Iron Pin and Cap Marker
- Proposed Right of Way Line with Concrete or Granite R/W Marker
- Proposed Control of Access Line with Concrete C/A Marker
- Existing Control of Access
- Proposed Control of Access
- Existing Easement Line
- Proposed Temporary Construction Easement
- Proposed Temporary Drainage Easement
- Proposed Permanent Drainage Easement
- Proposed Permanent Drainage / Utility Easement
- Proposed Permanent Utility Easement
- Proposed Temporary Utility Easement
- Proposed Aerial Utility Easement
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut
- Proposed Slope Stakes Fill
- Proposed Curb Ramp
- 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

EXISTING STRUCTURES:

MAJOR:

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

MINOR:

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

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line
- Designated U/G Power Line (S.U.E.*)

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole
- Telephone Booth
- Telephone Pedestal
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole
- Recorded U/G Telephone Cable
- Designated U/G Telephone Cable (S.U.E.*)
- Recorded U/G Telephone Conduit
- Designated U/G Telephone Conduit (S.U.E.*)
- Recorded U/G Fiber Optics Cable
- Designated U/G Fiber Optics Cable (S.U.E.*)

WATER:

- Water Manhole
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line
- Designated U/G Water Line (S.U.E.*)
- Above Ground Water Line

TV:

- TV Satellite Dish
- TV Pedestal
- TV Tower
- U/G TV Cable Hand Hole
- Recorded U/G TV Cable
- Designated U/G TV Cable (S.U.E.*)
- Recorded U/G Fiber Optic Cable
- Designated U/G Fiber Optic Cable (S.U.E.*)

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line
- Designated U/G Gas Line (S.U.E.*)
- Above Ground Gas Line

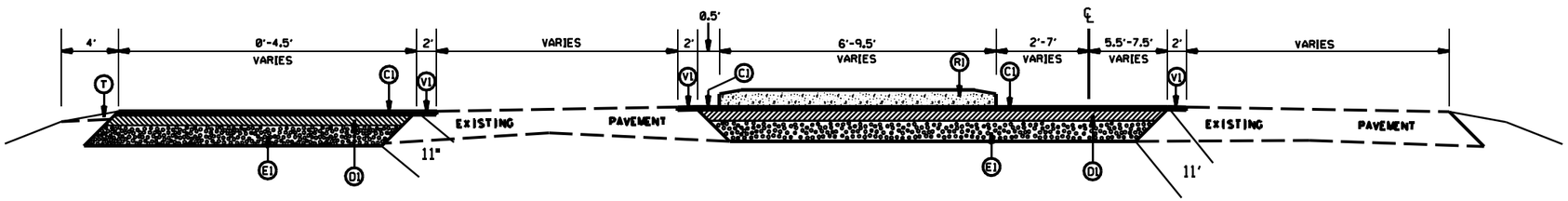
SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line
- Above Ground Sanitary Sewer
- Recorded SS Forced Main Line
- Designated SS Forced Main Line (S.U.E.*)

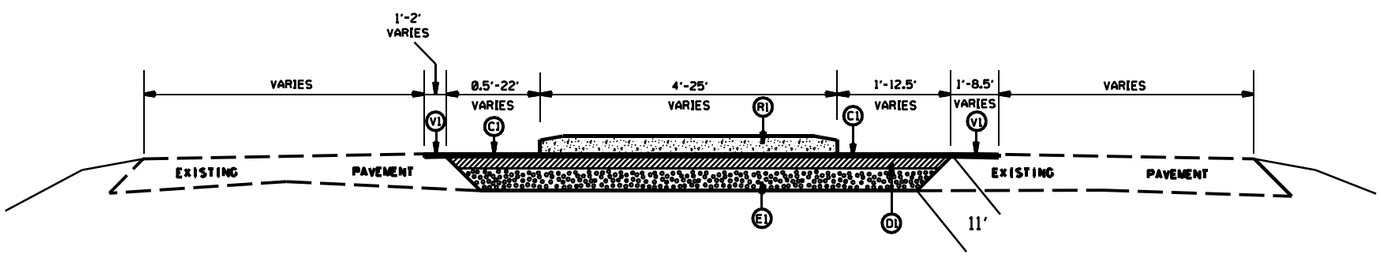
MISCELLANEOUS:

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

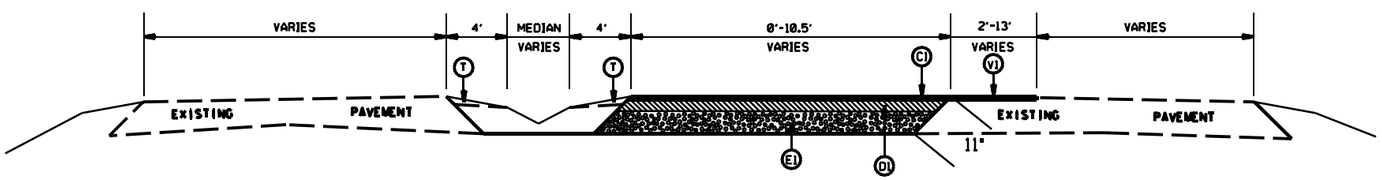
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3J2	2	
F.A. PROJECT NO.			



TYPICAL SECTION NO.3
STA 14+43.00 TO 14+86.00 -L-
STA 73+94.00 TO 74+47.00 -L-



TYPICAL SECTION NO.2
STA 14+03.00 TO 14+43.00 -L-
STA 73+48.00 TO 73+94.00 -L-
STA 203+71.87 TO 204+26.91 -L-
STA 204+76.87 TO 207+22.25 -L-



TYPICAL SECTION NO.1
STA 12+26.94 TO 14+03.00 -L-
STA 71+38.00 TO 73+48.00 -L-

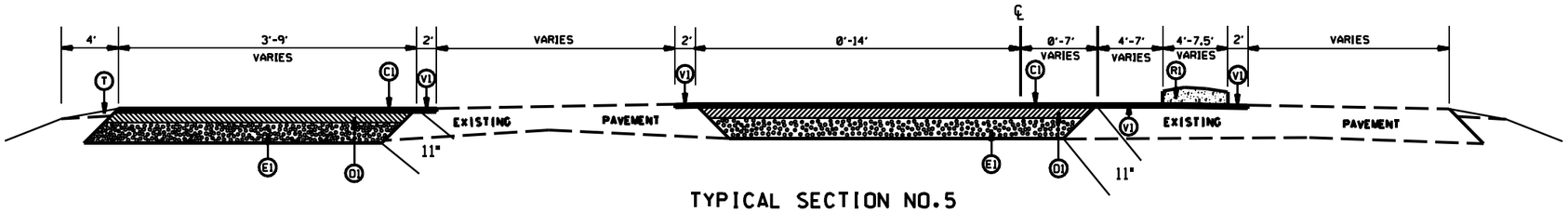
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

		REVISIONS	
SCALE	-NA-		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

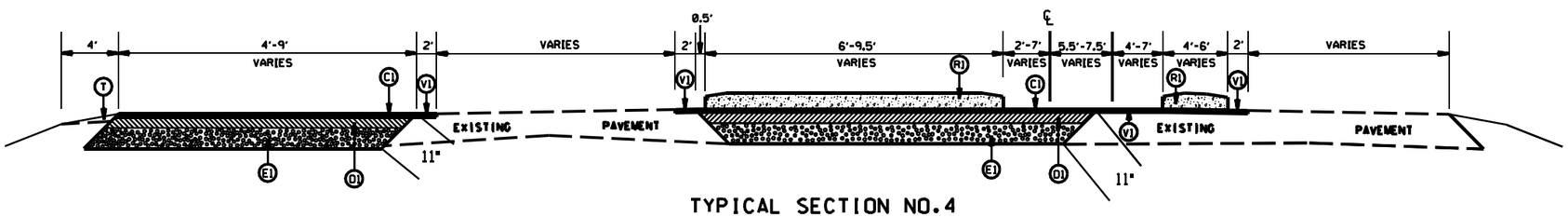
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2A	
F.A. PROJECT NO.			



TYPICAL SECTION NO.5
STA 15+43.00 TO 15+64.80 -L-
STA 74+94.00 TO 75+22.12 -L-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

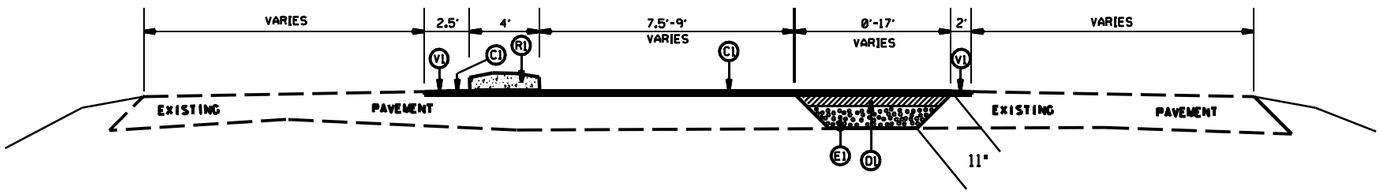


TYPICAL SECTION NO.4
STA 14+86.00 TO 15+43.00 -L-
STA 74+47.00 TO 74+94.00 -L-

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

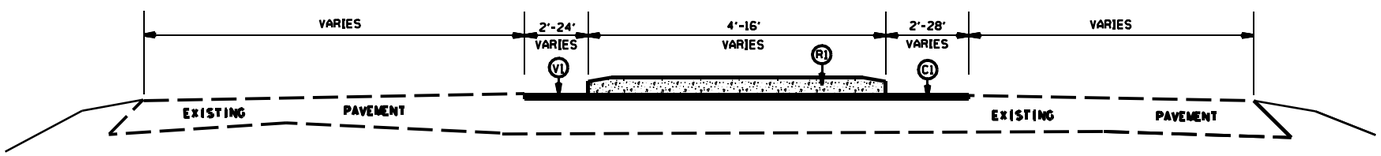
		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2B	
F.A. PROJECT NO.			



TYPICAL SECTION NO.8

STA 16+09.60 TO 16+16.00 -L-



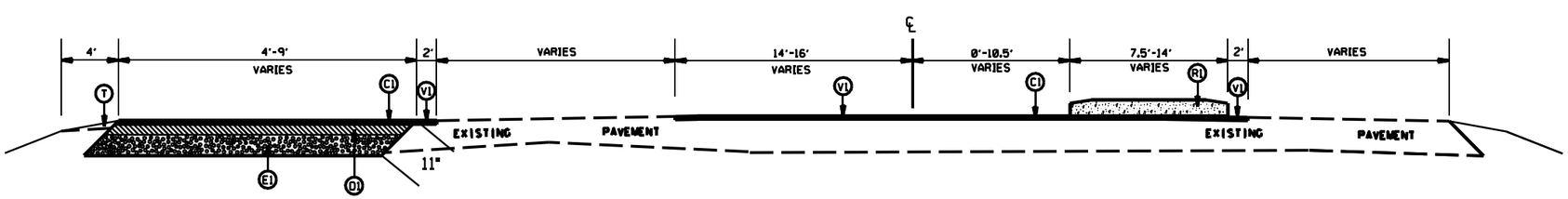
TYPICAL SECTION NO.7

STA 15+72.29 TO 16+09.60 -L-

STA 75+27.24 TO 75+67.00 -L-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH



TYPICAL SECTION NO.6

STA 15+64.80 TO 15+72.29 -L-

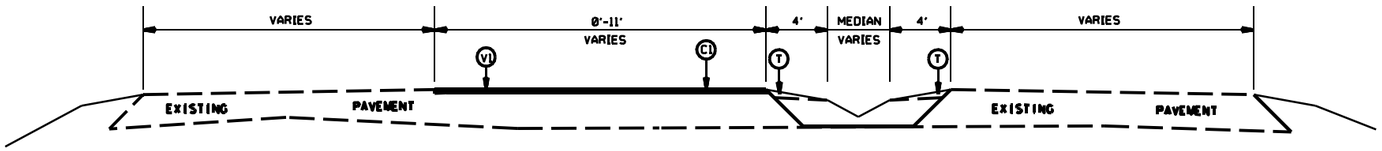
STA 75+22.12 TO 75+27.24 -L-

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

SCALE	N/A
DATE	5/15
DWG. BY	DLS
DESIGN BY	JDH
APPROVED	RWB

REVISIONS

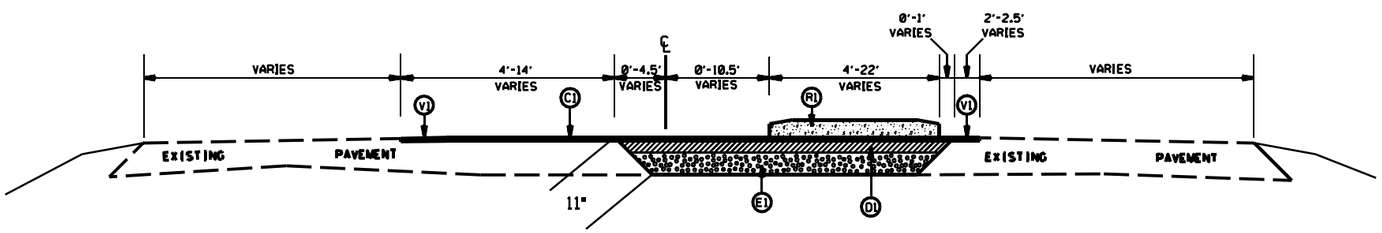
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2C	
F.A. PROJECT NO.			



TYPICAL SECTION NO.11

STA 18+91.00 TO 20+60.41 -L-

STA 210+56.00 TO 213+12.72 -L-

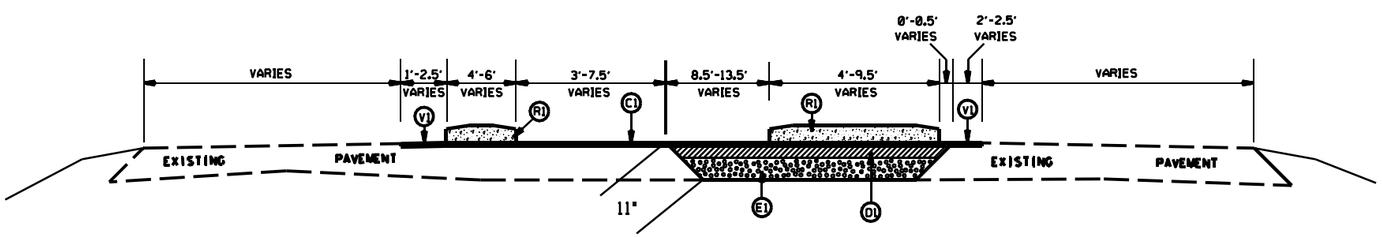


TYPICAL SECTION NO.10

STA 16+81.98 TO 18+91.00 -L-

STA 76+17.00 TO 77+19.00 -L-

STA 207+22.25 TO 209+23.85 -L-



TYPICAL SECTION NO.9

STA 16+16.00 TO 16+81.98 -L-

STA 75+74.03 TO 76+17.00 -L-

STA 172+49.00 TO 172+99.00 -L-

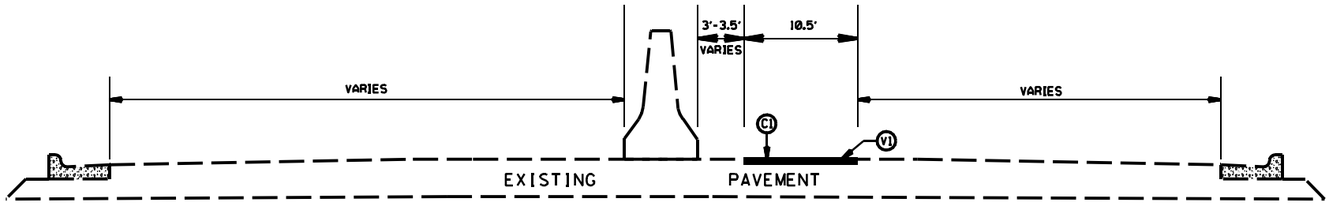
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

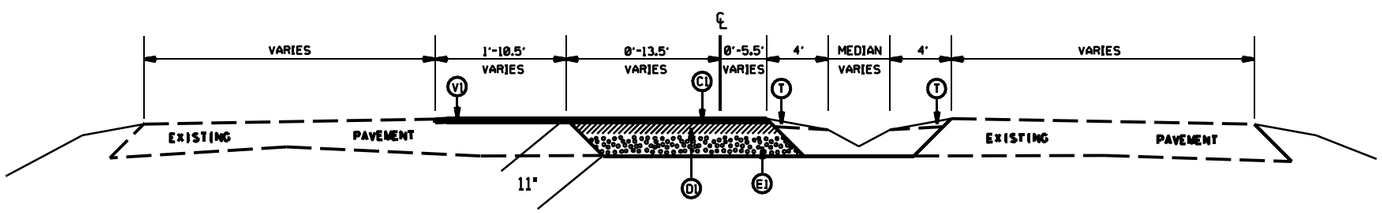
		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	20	
F.A. PROJECT NO.			



TYPICAL SECTION NO.14

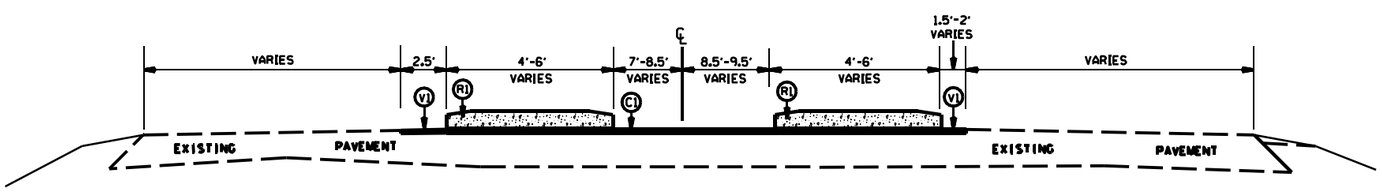
STA 167+51.00 TO 168+18.00 -L-



TYPICAL SECTION NO.13

STA 77+19.00 TO 79+09.00 -L-

STA 174+10.00 TO 175+99.95 -L-



TYPICAL SECTION NO.12

STA 75+67.00 TO 75+74.03 -L-

STA 209+50.00 TO 210+00.00 -L-

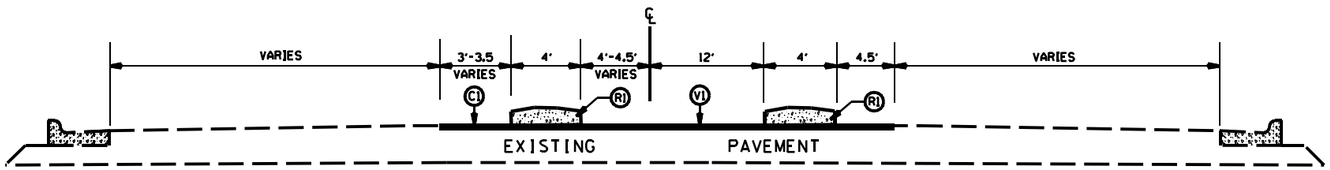
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

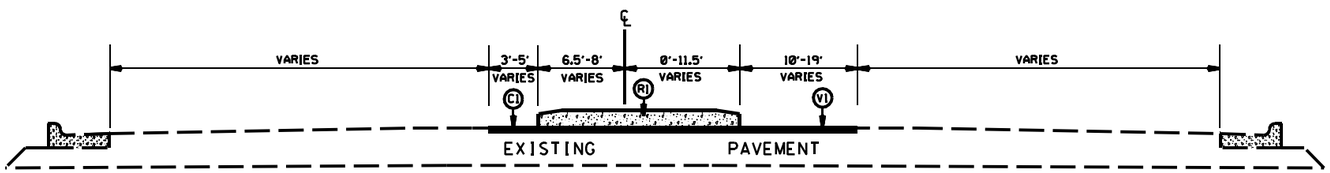
		REVISIONS
SCALE	N/A	
DATE	5/15	
DWG. BY	DLS	
DESIGN BY	JDH	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2E	
F.A. PROJECT NO.			



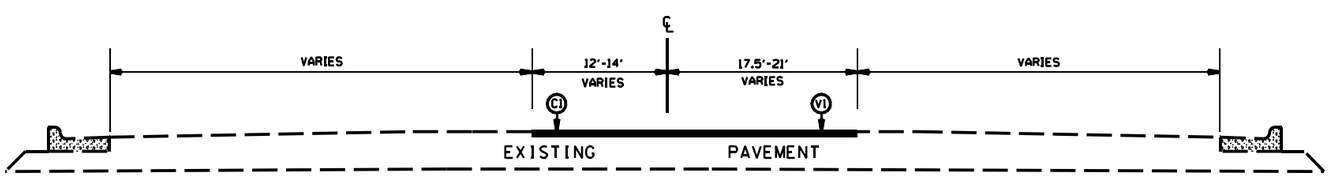
TYPICAL SECTION NO.17

STA 171+19.00 TO 171+69.00 -L-



TYPICAL SECTION NO.16

STA 168+39.00 TO 171+19.00 -L-



TYPICAL SECTION NO.15

STA 168+18.00 TO 168+39.00 -L-

STA 223+84.79 TO 223+88.00 -L-

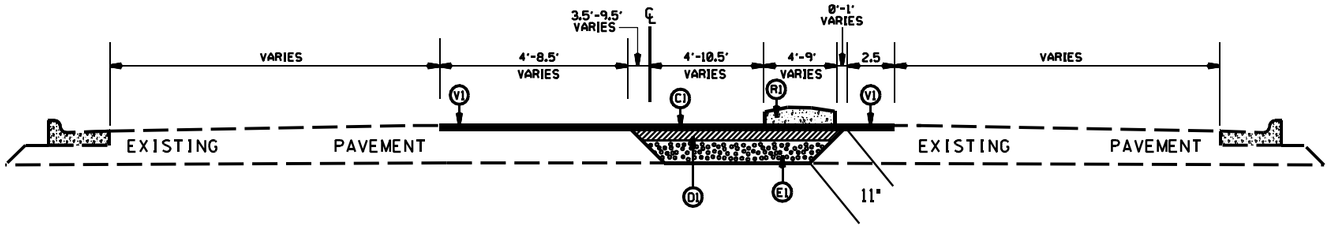
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

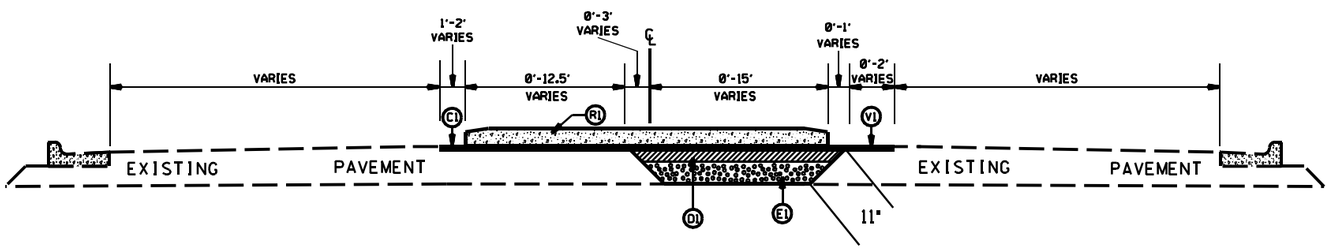
		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2F	
F.A. PROJECT NO.			



TYPICAL SECTION NO.20

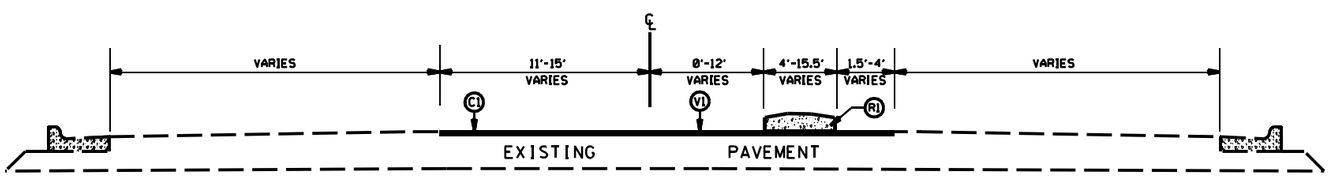
STA 172+99.00 TO 174+10.00 -L-



TYPICAL SECTION NO.19

STA 172+03.00 TO 172+49.00 -L-

STA 210+18.90 TO 210+56.00 -L-



TYPICAL SECTION NO.18

STA 171+69.00 TO 172+03.00 -L-

STA 210+00.00 TO 210+18.90 -L-

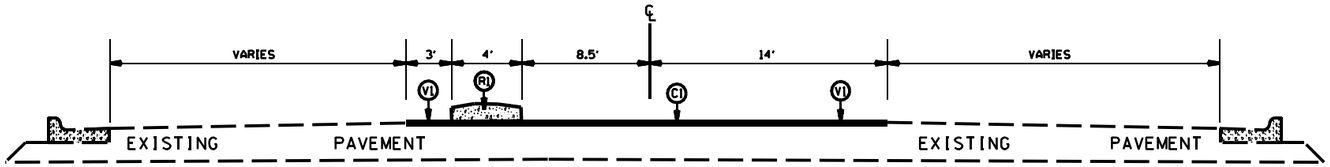
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

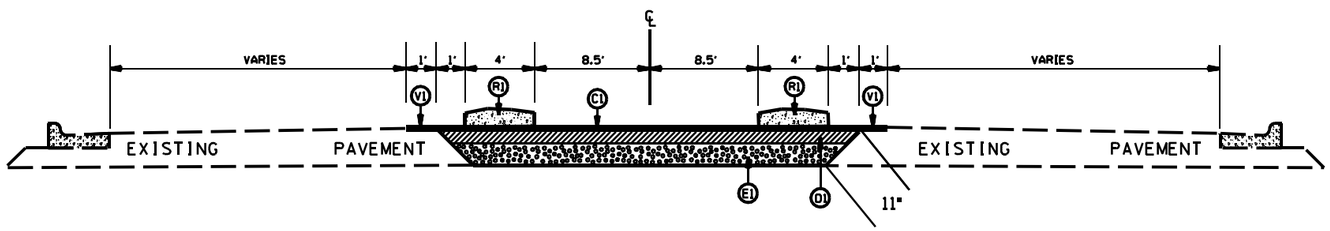
		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2G	
F.A. PROJECT NO.			



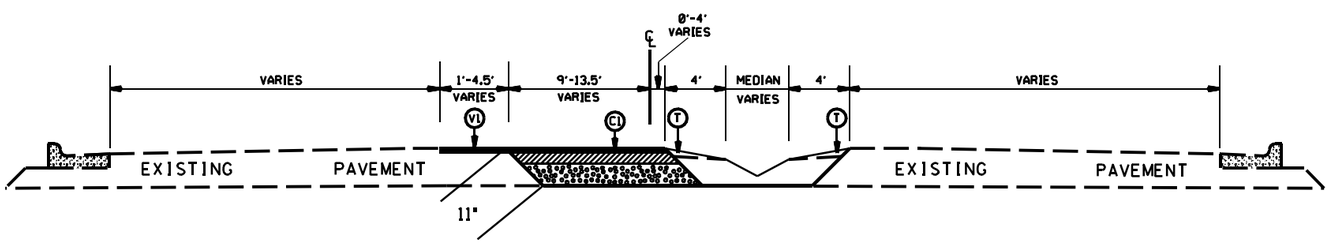
TYPICAL SECTION NO.23

STA 209+23.85 TO 209+50.00 -L-



TYPICAL SECTION NO.22

STA 204+26.91 TO 204+76.87 -L-



TYPICAL SECTION NO.21

STA 174+10.00 TO 175+99.95 -L-

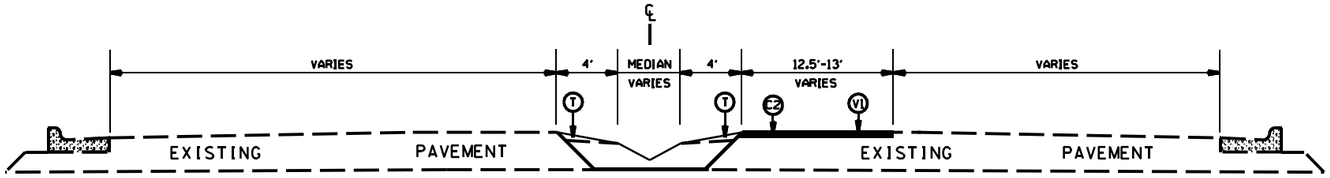
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

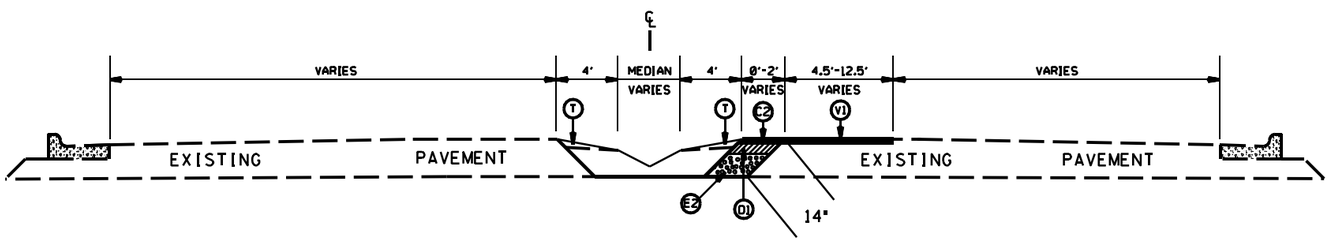
		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2H	
F.A. PROJECT NO.			



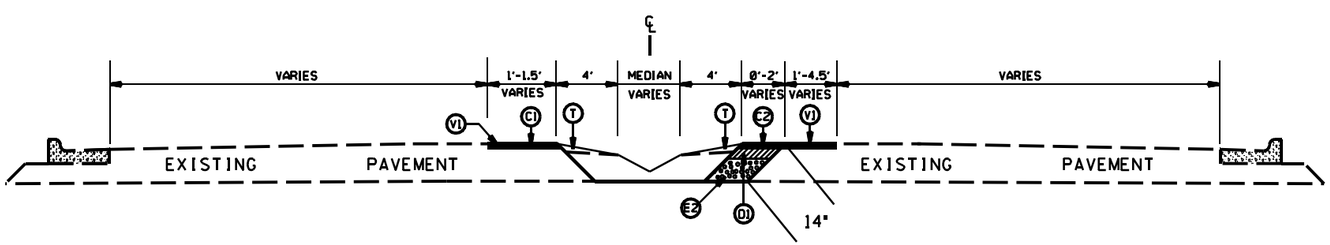
TYPICAL SECTION NO.26

STA 216+51.00 TO 216+99.52 -L-



TYPICAL SECTION NO.25

STA 213+90.00 TO 216+51.00 -L-



TYPICAL SECTION NO.24

STA 213+12.72 TO 213+90.00 -L-

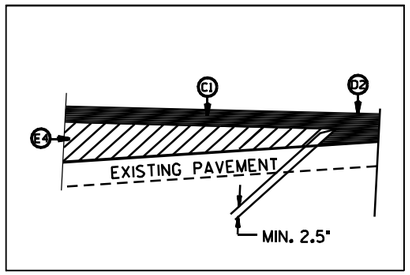
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5' MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

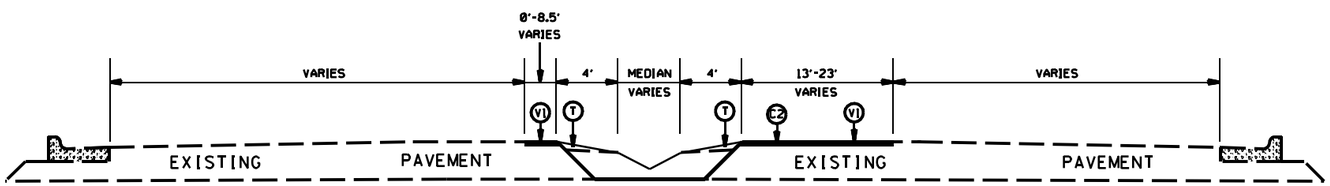
US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	21	
F.A. PROJECT NO.			

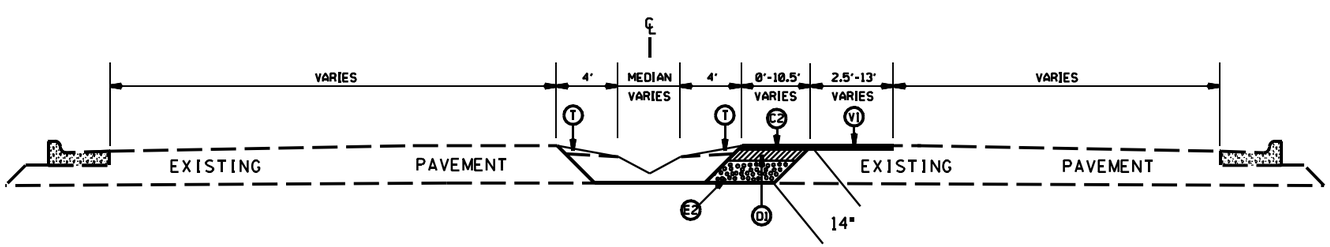


WEDGING DETAIL



TYPICAL SECTION NO.28

STA 218+93.52 TO 223+84.79 -L-



TYPICAL SECTION NO.27

STA 216+99.52 TO 218+93.52 -L-

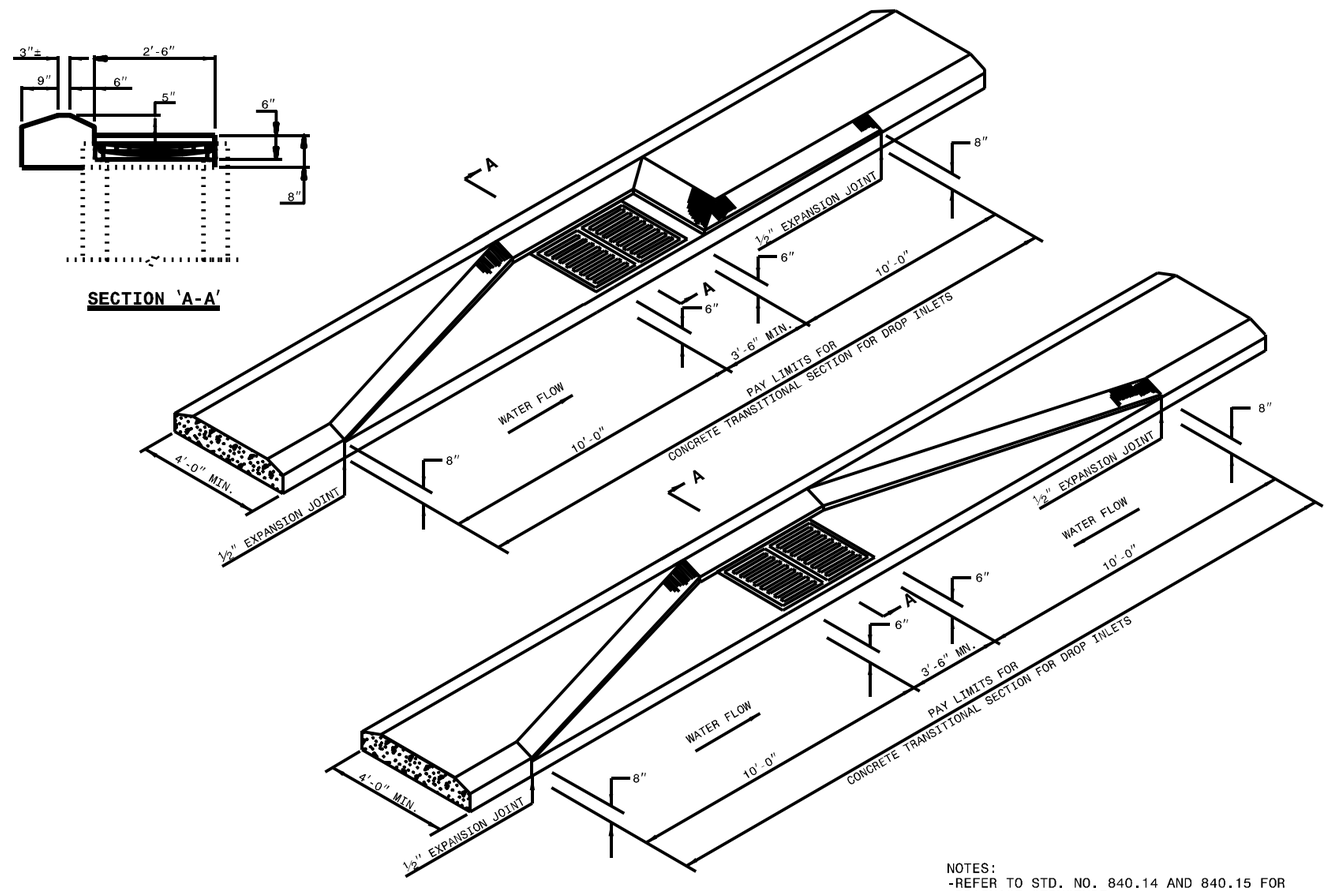
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP. APPROX. 4 " ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E4	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
R1	PROP. 5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2J	
F.A. PROJECT NO.			



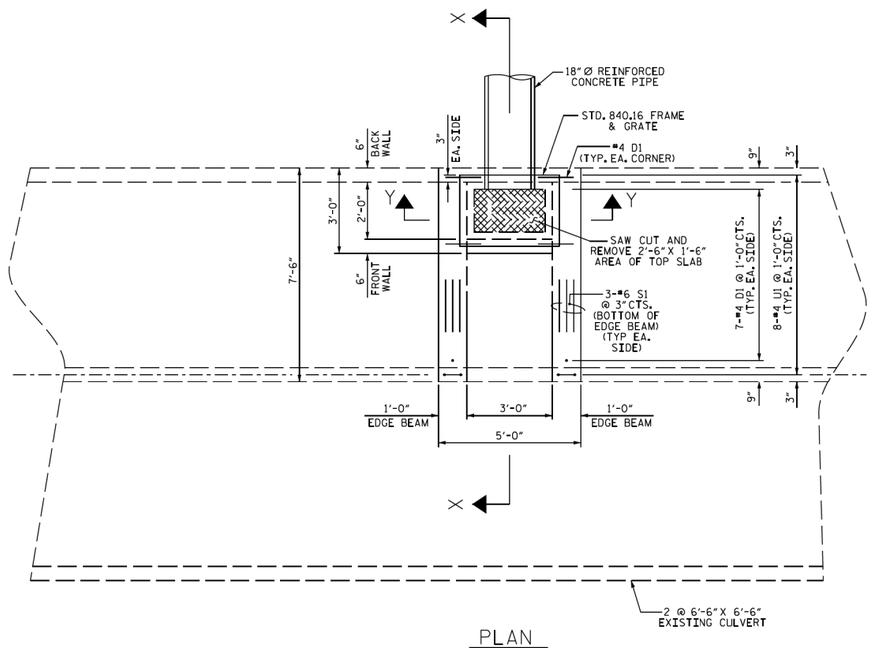
NOTES:
-REFER TO STD. NO. 840.14 AND 840.15 FOR DRAINAGE STRUCTURE.
-REFER TO STD. NO. 840.16 FOR GRATE AND FRAME.

METHOD FOR PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS

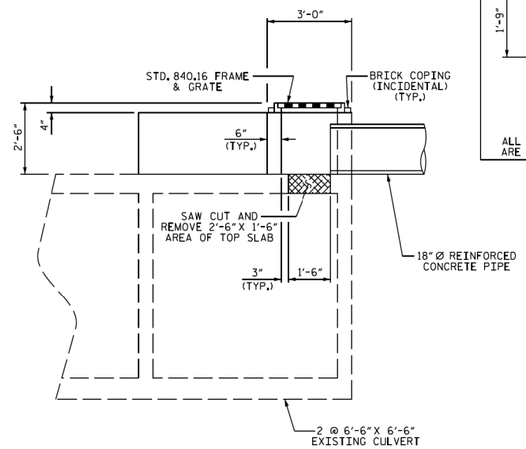
US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

		REVISIONS	
SCALE	N/A		
DATE	5/15		
DWG. BY	DLS		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	2K	
F.A. PROJECT NO.			



PLAN



SECTION X-X

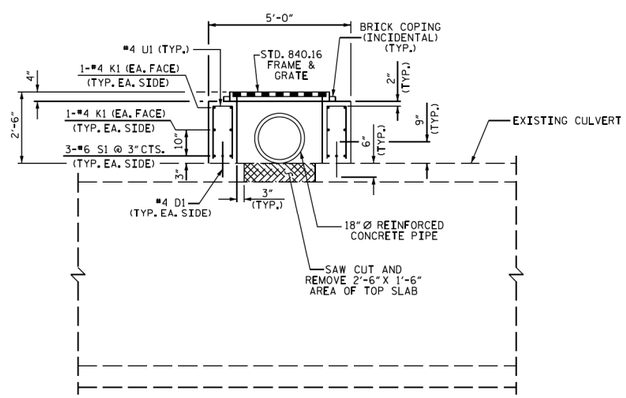
BAR TYPE	BILL OF MATERIAL				
	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
8" 1'-9" 1	D1	26	#4	STR	1'-3"	22
	K1	8	#4	STR	7'-2"	38
	S1	6	#6	STR	7'-2"	65
	U1	16	#4	1	4'-2"	45
ALL DIMENSIONS ARE OUT TO OUT	REINFORCING STEEL					170 LBS.
	CLASS A CONCRETE EDGE BEAMS, FRONT & BACK WALL					1.4 C.Y.

NOTES:

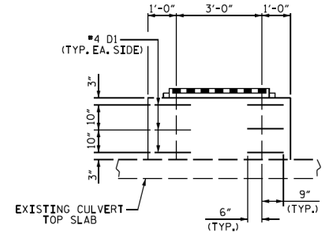
THE CONTRACTOR SHALL USE ADHESIVELY ANCHORED DOWELS. NO FIELD TESTING IS REQUIRED. FOR ADHESIVELY ANCHORED DOWELS, SEE STANDARD SPECIFICATIONS.

REINFORCING STEEL THAT IS EXPOSED IN THE TOP SLAB AFTER THE PARTIAL REMOVAL SHALL BE PAINTED WITH EPOXY.

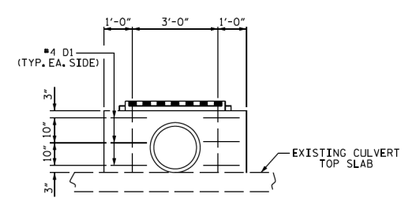
SEE ROADWAY STANDARDS FOR FRAME AND GRATE DETAILS.



SECTION Y-Y



FRONT WALL ELEVATION



BACK WALL ELEVATION

PROJECT NO. -

UNION COUNTY

STATION: -

SHEET 1 OF 1

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

MODIFIED CONCRETE DROP INLET

NORTH CAROLINA PROFESSIONAL SEAL 031583 ENGINEER KRISHNA P. PRASAD

DocuSigned by: Krishna P. Sedai
EA6F794150BF4B7...
1/21/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			
2			4			

DRAWN BY :	K. P. SEDAI DATE : 1/15/16
CHECKED BY :	D. A. DAVENPORT DATE : 1/19/16
DESIGN ENGINEER OF RECORD:	K. P. SEDAI DATE : 1/19/16

\$\$\$\$\$\$SYSTIME\$\$\$\$\$
\$DGN\$
\$\$\$\$USERNAME\$\$\$\$

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS

SCALE	N/A
DATE	5/15
DWG. BY	DLS
DESIGN BY	JDH
APPROVED	RWB

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

REVISIONS	

COMPUTED BY: TBL DATE: 11/15
CHECKED BY: JDH DATE: 11/15

PROJECT REFERENCE NO.	SHEET NO.
45340.3.2	3

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".

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 | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | C.S. PIPE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | CU. YDS. C.S.P. | QUANTITIES FOR PAYMENT OF 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 | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | TRAFFIC BEARING J.B. STD. 840.34 | TRAFFIC BEARING GRATED D.I. STD. 840.35 | RAISE EXISTING GRATE | M.H. FRAME & COVER STD. 840.54 | OFFSET CATCH BASIN | REINF. CONC. PIPE END SECTIONS STD. 310.02 | REMOVE EXISTING DRAINAGE STRUCTURE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

COMPUTED BY: TBL DATE: 11/15
CHECKED BY: JDH DATE: 11/15

PROJECT REFERENCE NO.	SHEET NO.
45340.3.2	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".

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 | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | C.S. PIPE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | CU. YDS. C.S.P. | QUANTITIES FOR REMOVAL OF 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 | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | TRAFFIC BEARING J.B. STD. 840.34 | TRAFFIC BEARING GRATED D.I. STD. 840.35 | RAISE EXISTING GRATE | M.H. FRAME & COVER STD. 840.54 | OFFSET CATCH BASIN | REINF. CONC. PIPE END SECTIONS STD. 310.02 | REMOVE EXISTING DRAINAGE STRUCTURE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

COMPUTED BY: TBL DATE: 11/15
CHECKED BY: JDH DATE: 11/15

PROJECT REFERENCE NO.	SHEET NO.
45340.3.2	38

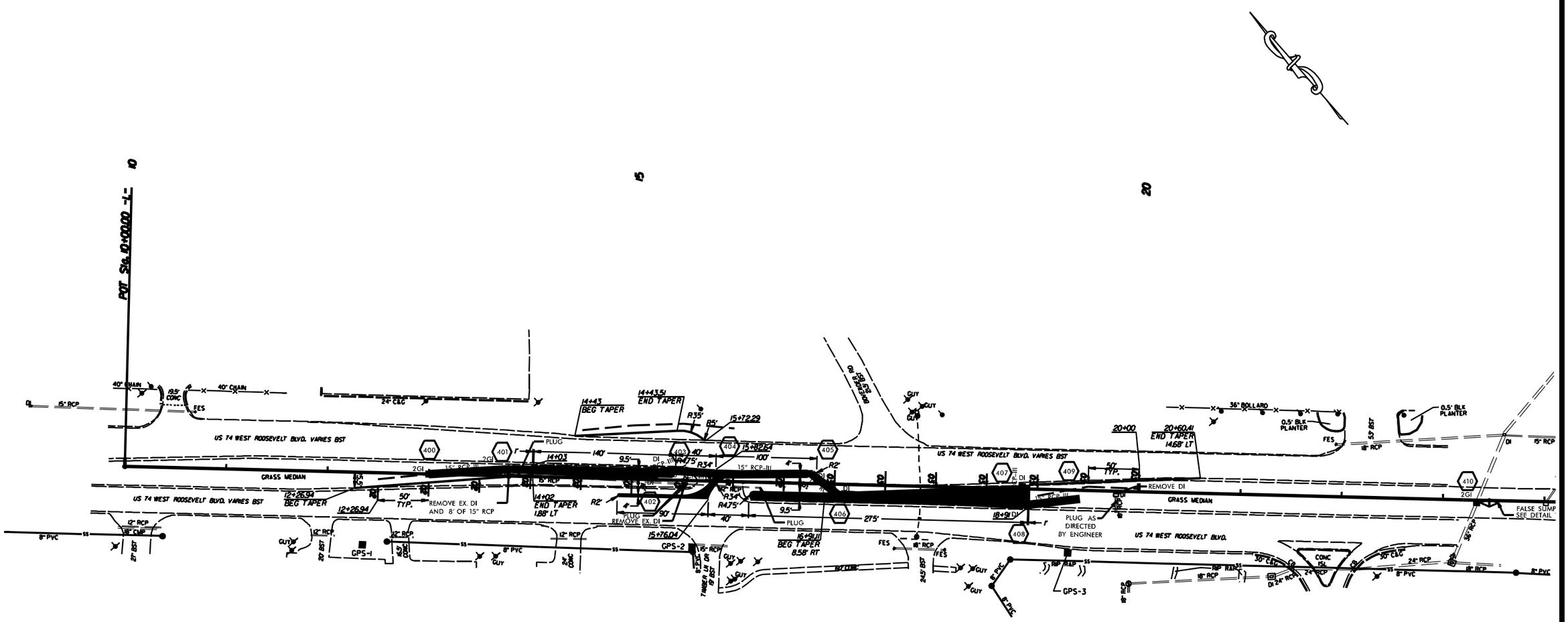
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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".

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

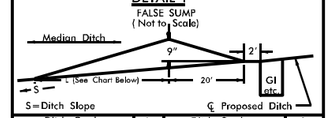
| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | C.S. PIPE 12" | 15" | 18" | 24" | | 30" | | 36" | | 42" | | 48" | CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | C.S.P. | QUANTITIES FOR APPROACH STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0') | LIN. *FT. A 5.0' THRU 10.0' | B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | TRAFFIC BEARING J.B. STD. 840.34 | TRAFFIC BEARING GRATED D.I. STD. 840.35 | RAISE EXISTING GRATE | M.H. FRAME & COVER STD. 840.54 | OFFSET CATCH BASIN | REINF. CONC. PIPE END SECTIONS STD. 310.02 | REMOVE EXISTING DRAINAGE STRUCTURE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	4	
F.A. PROJECT NO.			



DETAIL 1

FALSE SUMP
(Not to Scale)



S=Ditch Slope

℄ Proposed Ditch

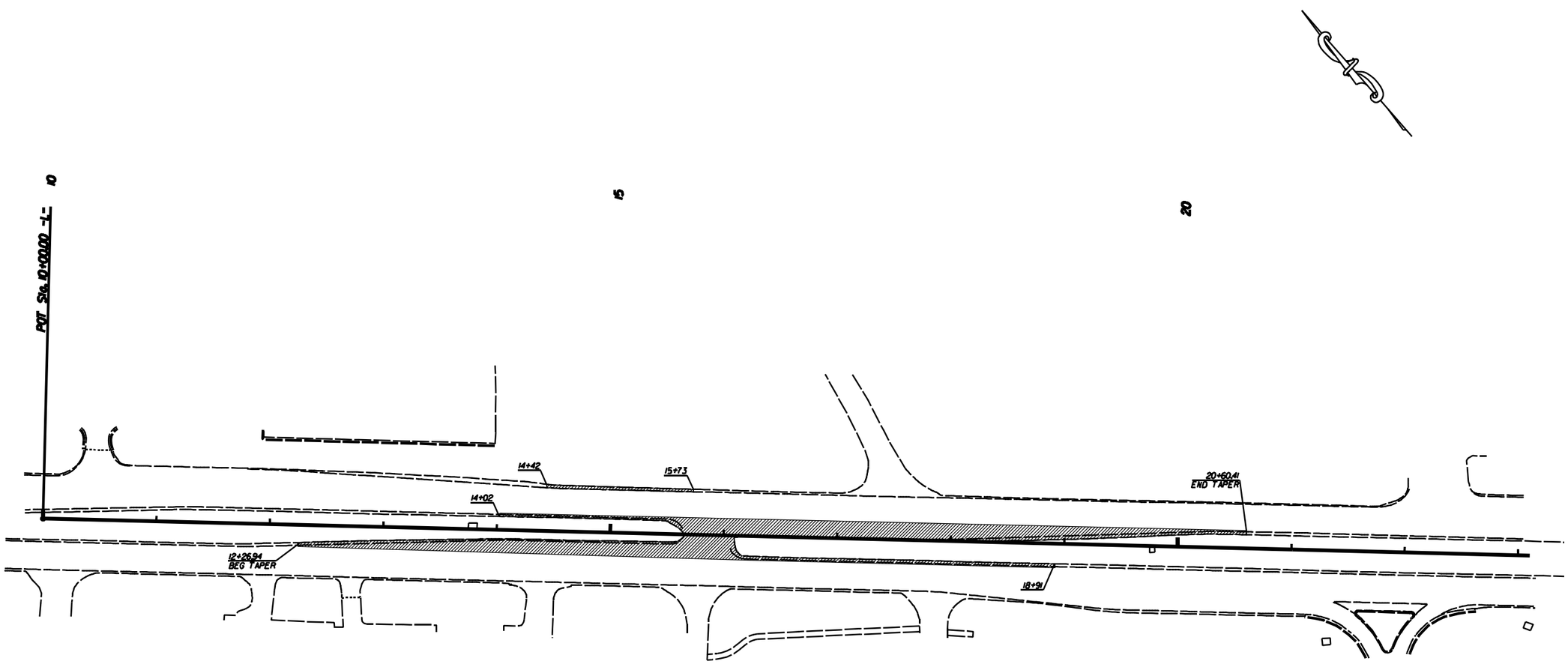
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

AT STA. 23+33 -L- MED.

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS IN UNION COUNTY

		REVISIONS	
SCALE	r=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	4A	
F.A. PROJECT NO.			



NOTES:

MILL PAVED SHOULDER INCLUDING EDGE LINE 1.5" IN DEPTH

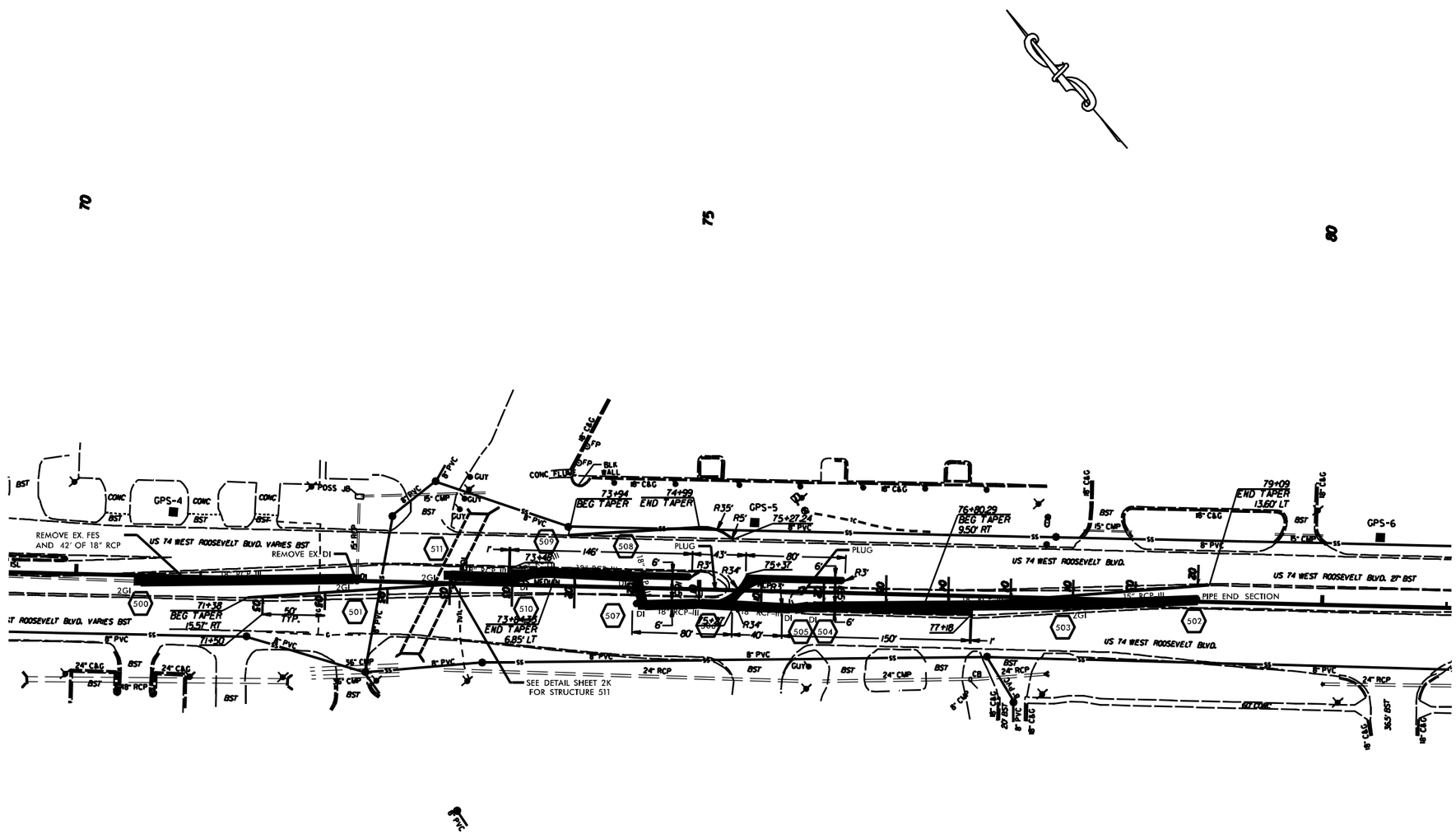
PAVEMENT MILLING

PAVEMENT REMOVAL

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

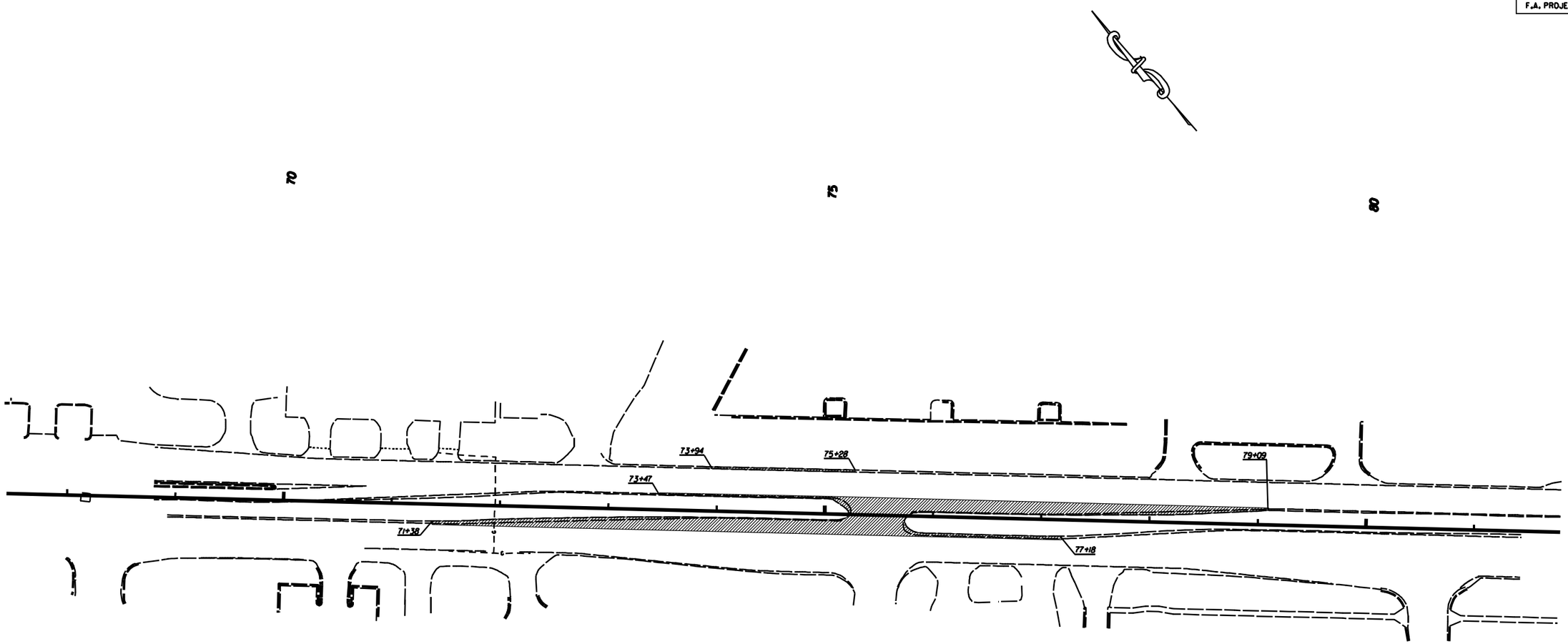
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	5	
F.A. PROJECT NO.			



US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	5A	
F.A. PROJECT NO.			



NOTES:

MILL PAVED SHOULDER INCLUDING EDGE LINE 1.5" IN DEPTH

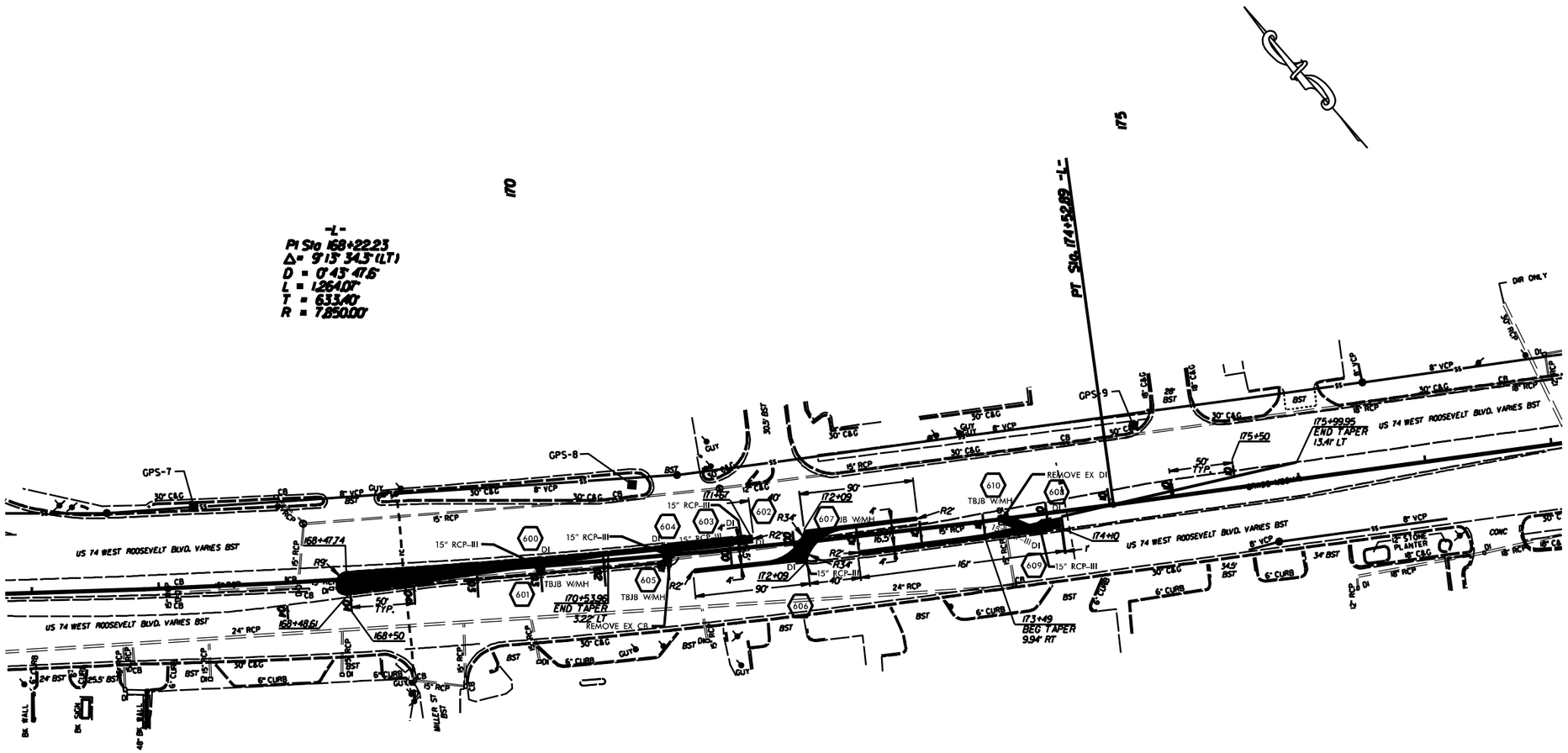
PAVEMENT MILLING

PAVEMENT REMOVAL

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

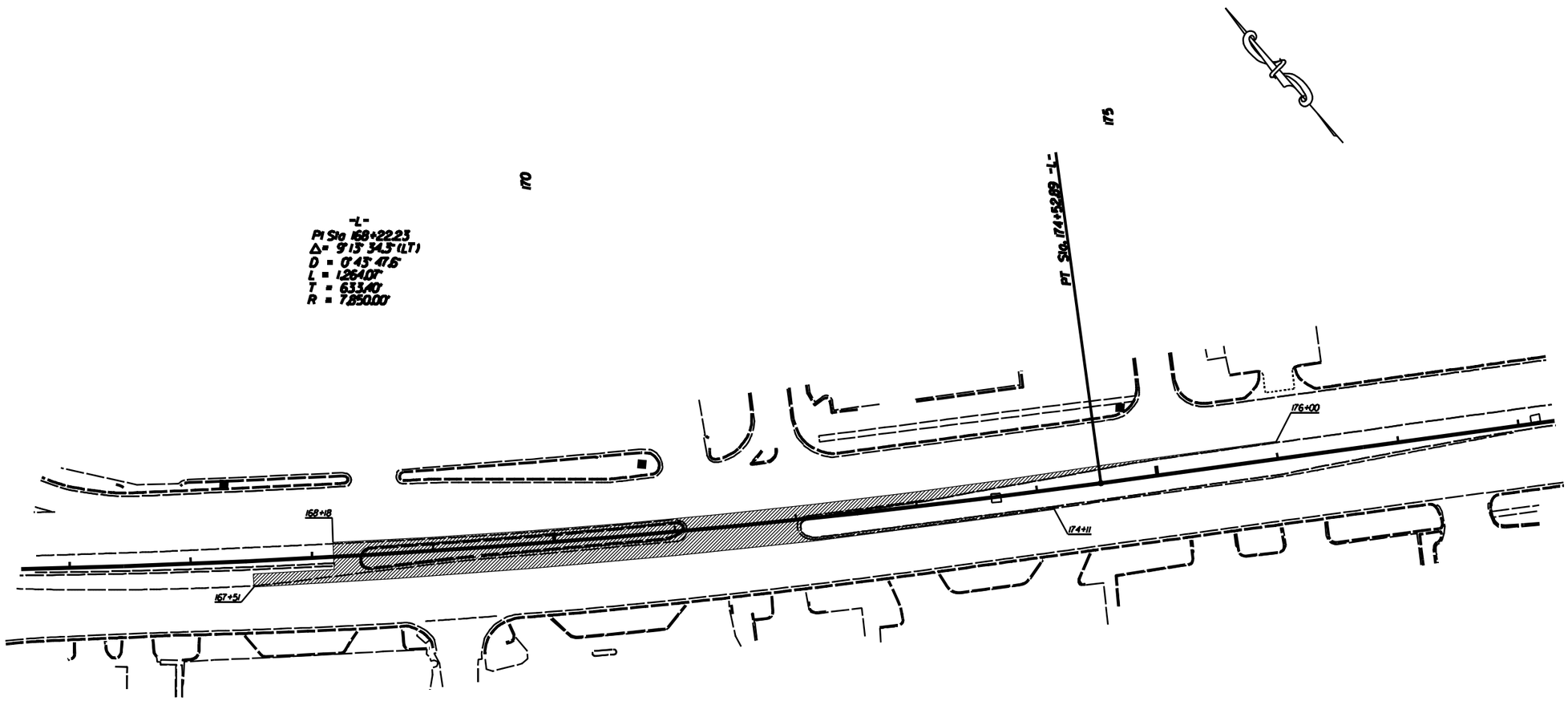
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	6	
F.A. PROJECT NO.			



US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	6A	
F.A. PROJECT NO.			



NOTES:

MILL PAVED SHOULDER INCLUDING EDGE LINE 1.5" IN DEPTH

PAVEMENT MILLING

PAVEMENT REMOVAL

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

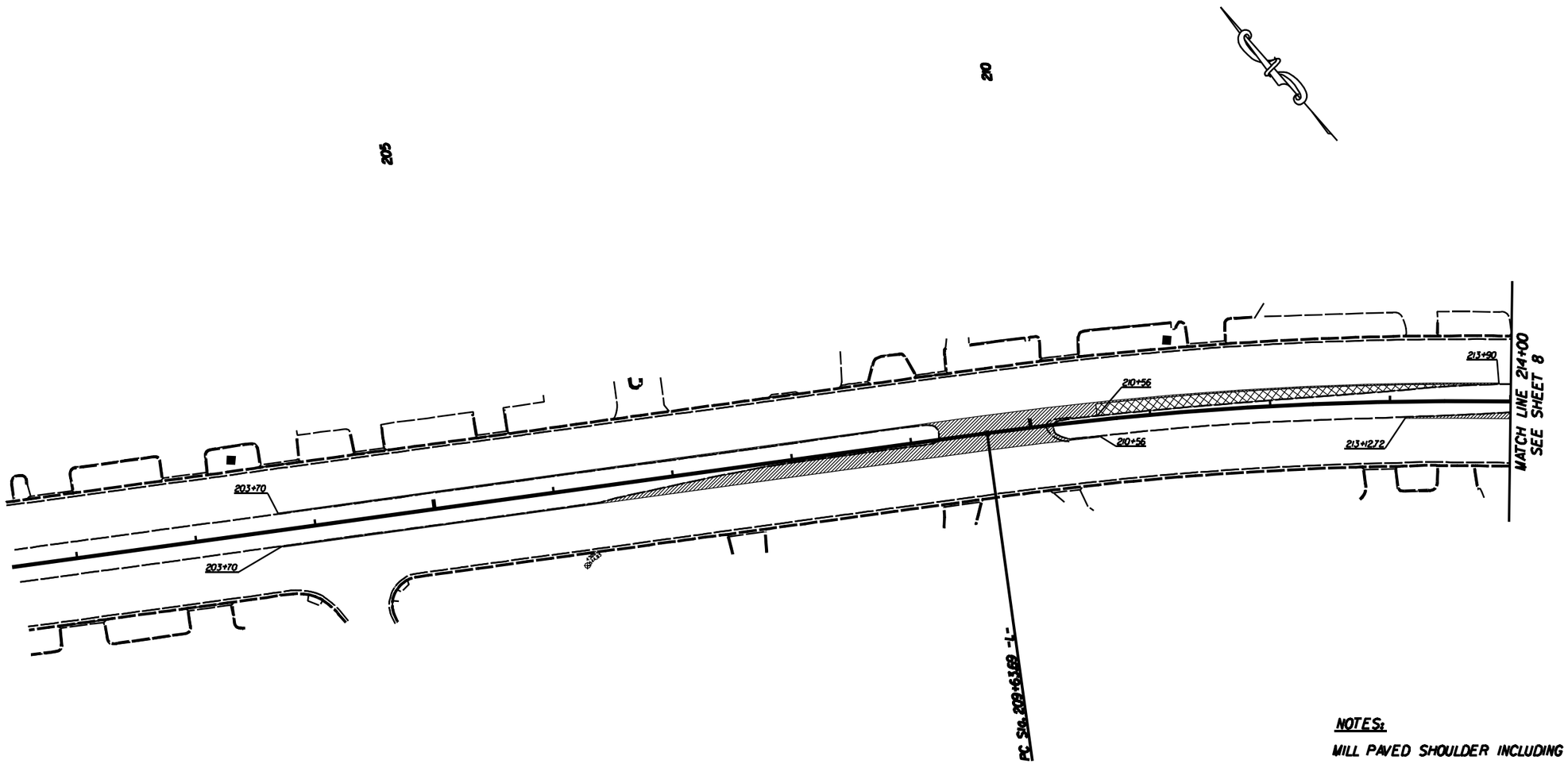
		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	7	
F.A. PROJECT NO.			

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	7A	
F.A. PROJECT NO.			



NOTES:

MILL PAVED SHOULDER INCLUDING EDGE LINE 1.5" IN DEPTH

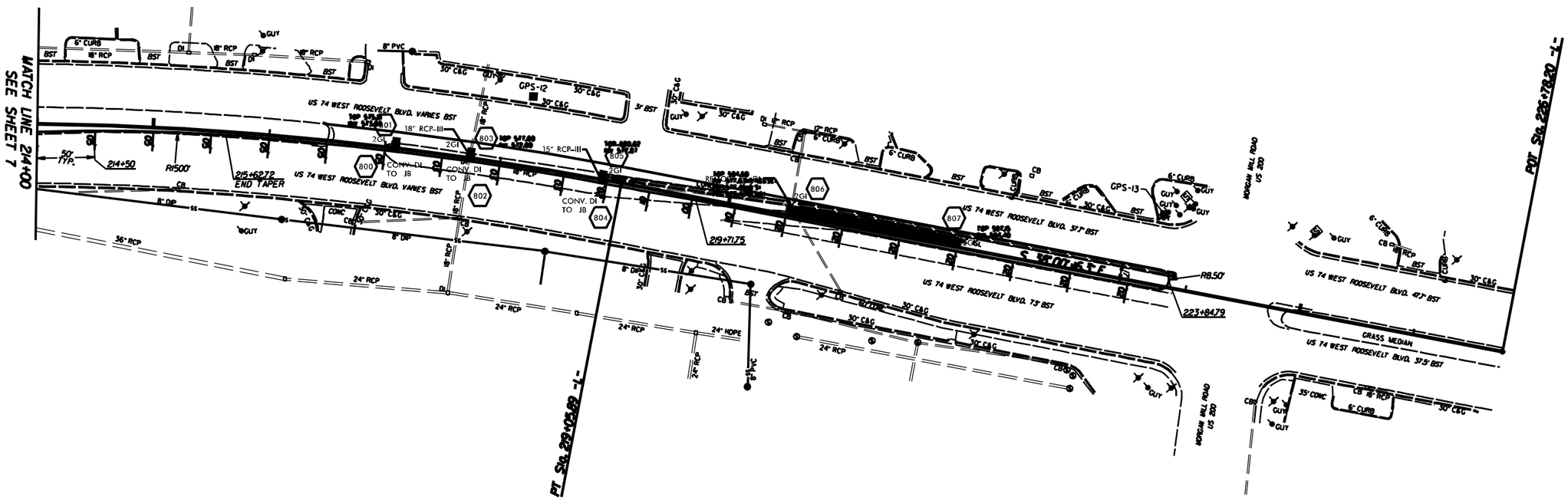
PAVEMENT MILLING

PAVEMENT REMOVAL

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

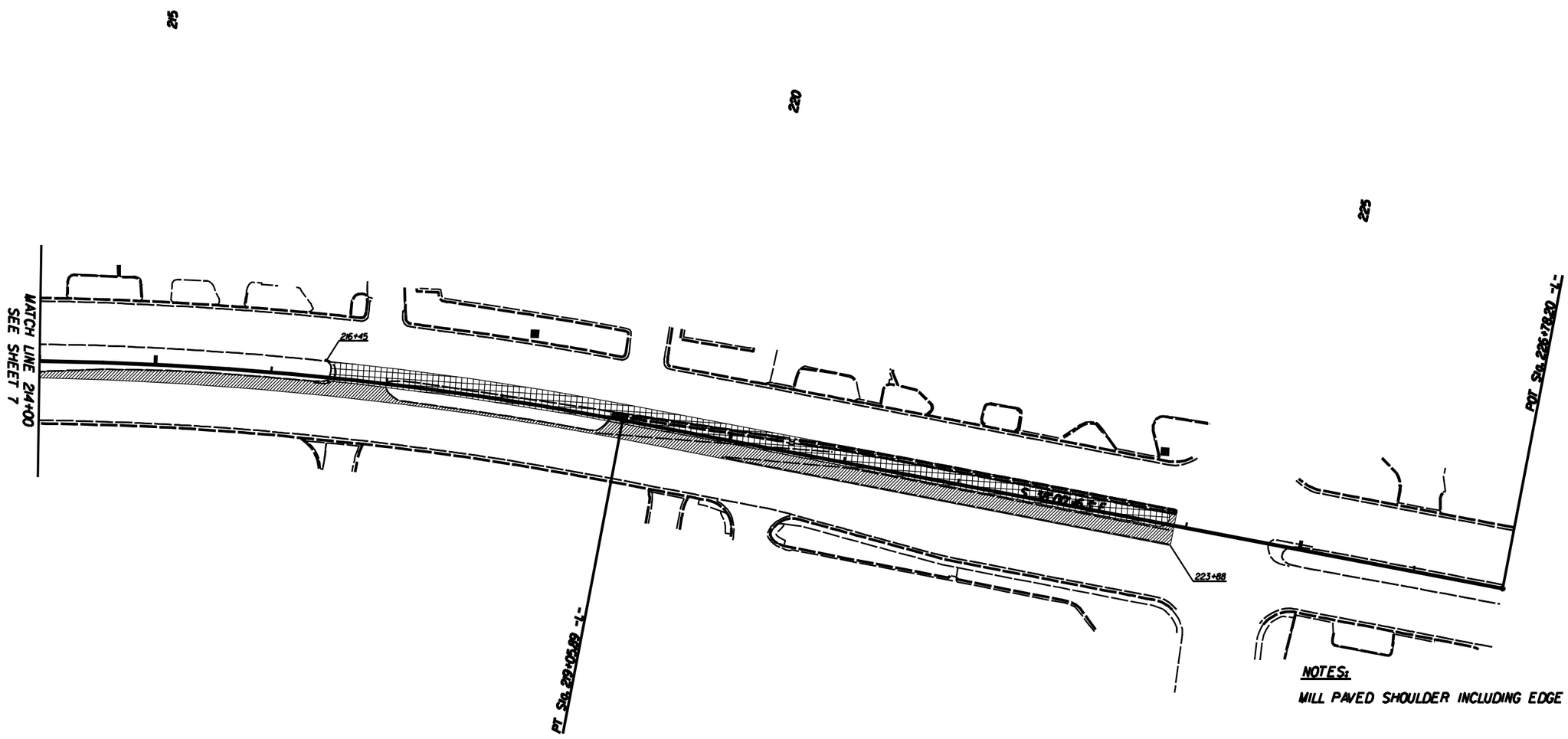
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	8	
F.A. PROJECT NO.			



US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	03/2015		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.1/2	8A	
F.A. PROJECT NO.			



NOTES:

MILL PAVED SHOULDER INCLUDING EDGE LINE 1.5" IN DEPTH

PAVEMENT MILLING

PAVEMENT REMOVAL

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

SCALE	1"=50'	
DATE	03/2015	
DWG. BY	TBL	
DESIGN BY	JDH	
APPROVED	RWB	

REVISIONS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	EC-1	

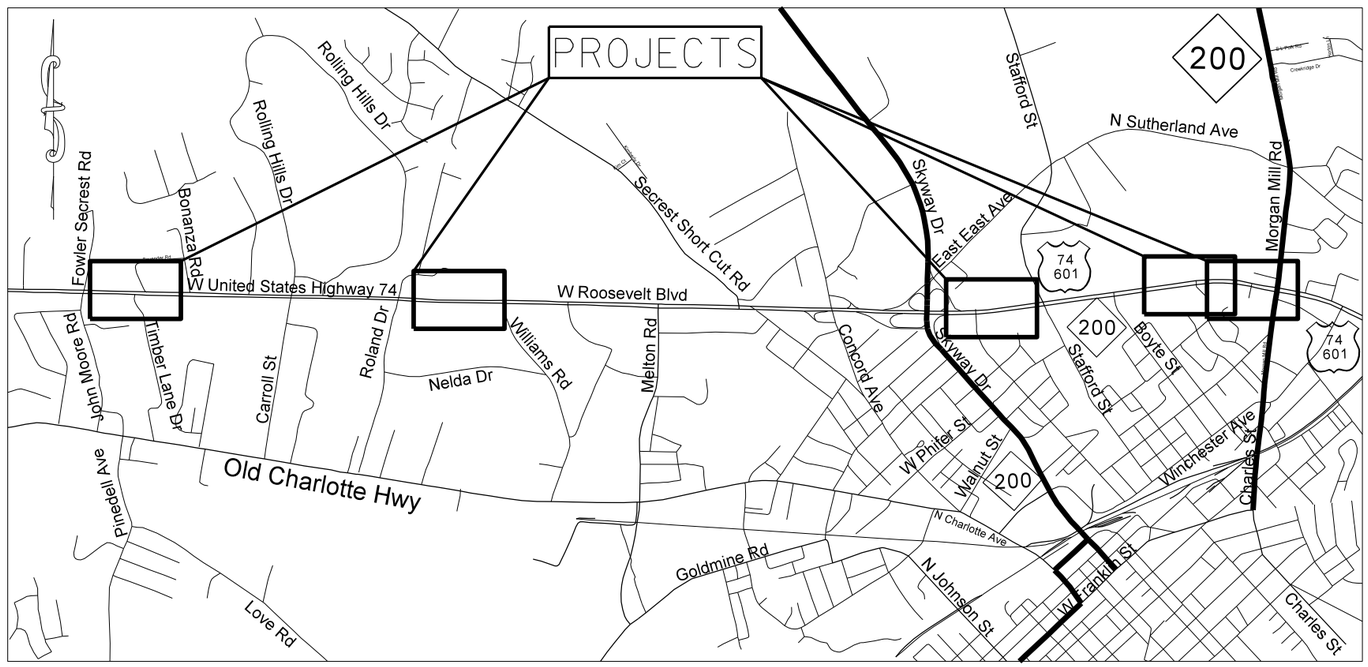
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45340.1.FS12	HSIP-0074(157)	P.E.
45340.2.12	HSIP-0074(157)	R/W
45340.3.12	HSIP-0074(157)	CONST.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

UNION COUNTY

Description: US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS BETWEEN FOWLER SECREST ROAD AND NC 200 (MORGAN MILL)



VICINITY MAP NOT TO SCALE

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Silt Basin Type A	
1630.02	Silt Basin Type B	
SP	Wrapped 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	
1636.01	Rock Silt Screen	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A OR A
1632.02	Type B	B OR B
1632.03	Type C	C OR C
SP	Wattle	
SP	Wattle With Pam	

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

PROJECT: W-5210L

GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

P.E.
ROADSIDE ENVIRONMENTAL ENGINEER

Prepared In the Office of:

DDC UNIT DIVISION 10

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

2006 STANDARD SPECIFICATIONS

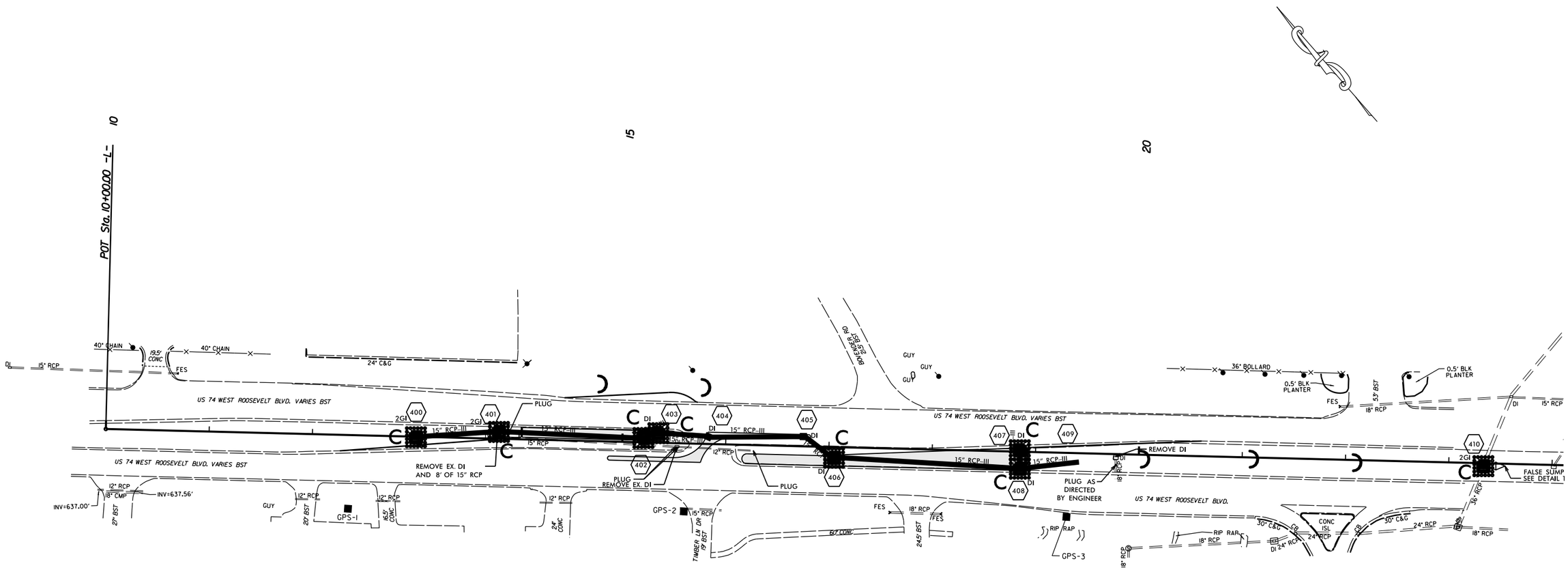
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 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	1630.06	Special Stilling Basin
1605.01	Temporary Silt Fence	1632.01	Rock Inlet Sediment Trap Type A
1606.01	Special Sediment Control Fence	1632.02	Rock Inlet Sediment Trap Type B
1607.01	Gravel Construction Entrance	1632.03	Rock Inlet Sediment Trap Type C
1622.01	Temporary Berms and Slope Drains	1633.01	Temporary Rock Silt Check Type A
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		

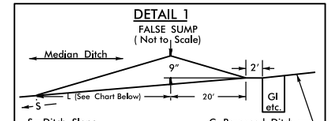
08-MAR-2006 15:00
pw:\\pwad01\projects\U5210\U5210_sheets\U5210_sheets.pw
User: DIBOIFRAD29HBZ
$$$$ USER: DIBOIFRAD29HBZ
$$$$ DATE: 08-MAR-2006
$$$$ FILE: U5210_sheets.pw
$$$$ PROJECT: U5210
$$$$ PROJECT: U5210
$$$$ PROJECT: U5210

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	EC-2	
F.A. PROJECT NO.			



DETAIL 1

FALSE SUMP
(Not to Scale)



S=Ditch Slope ℄ Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

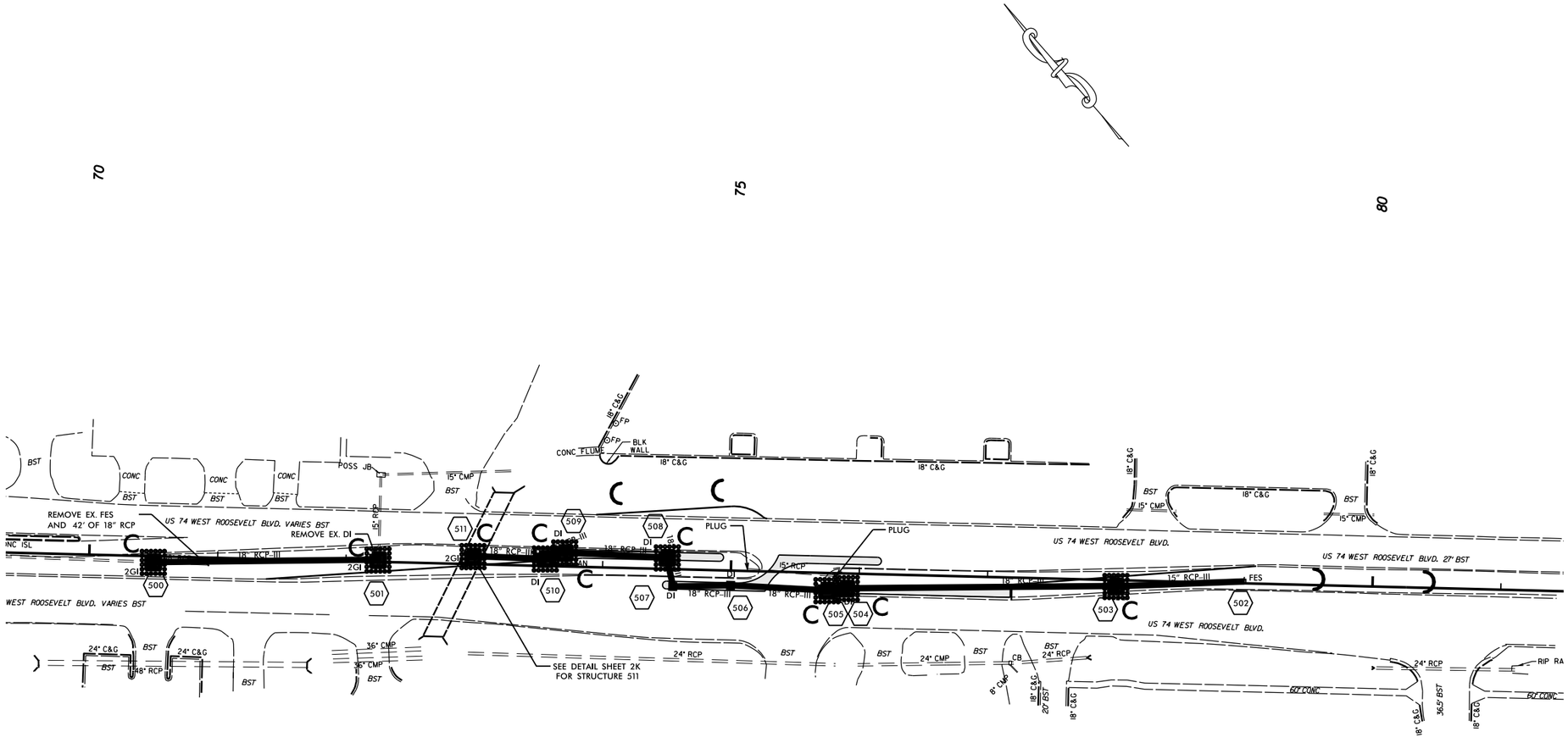
AT STA. 23+33 -L- MED.

EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS IN UNION COUNTY

			REVISIONS	
SCALE	1"=50'			
DATE	FEB 2016			
DWG. BY	TBL			
DESIGN BY	DJH			
APPROVED	RWB			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	EC-3	
F.A. PROJECT NO.			

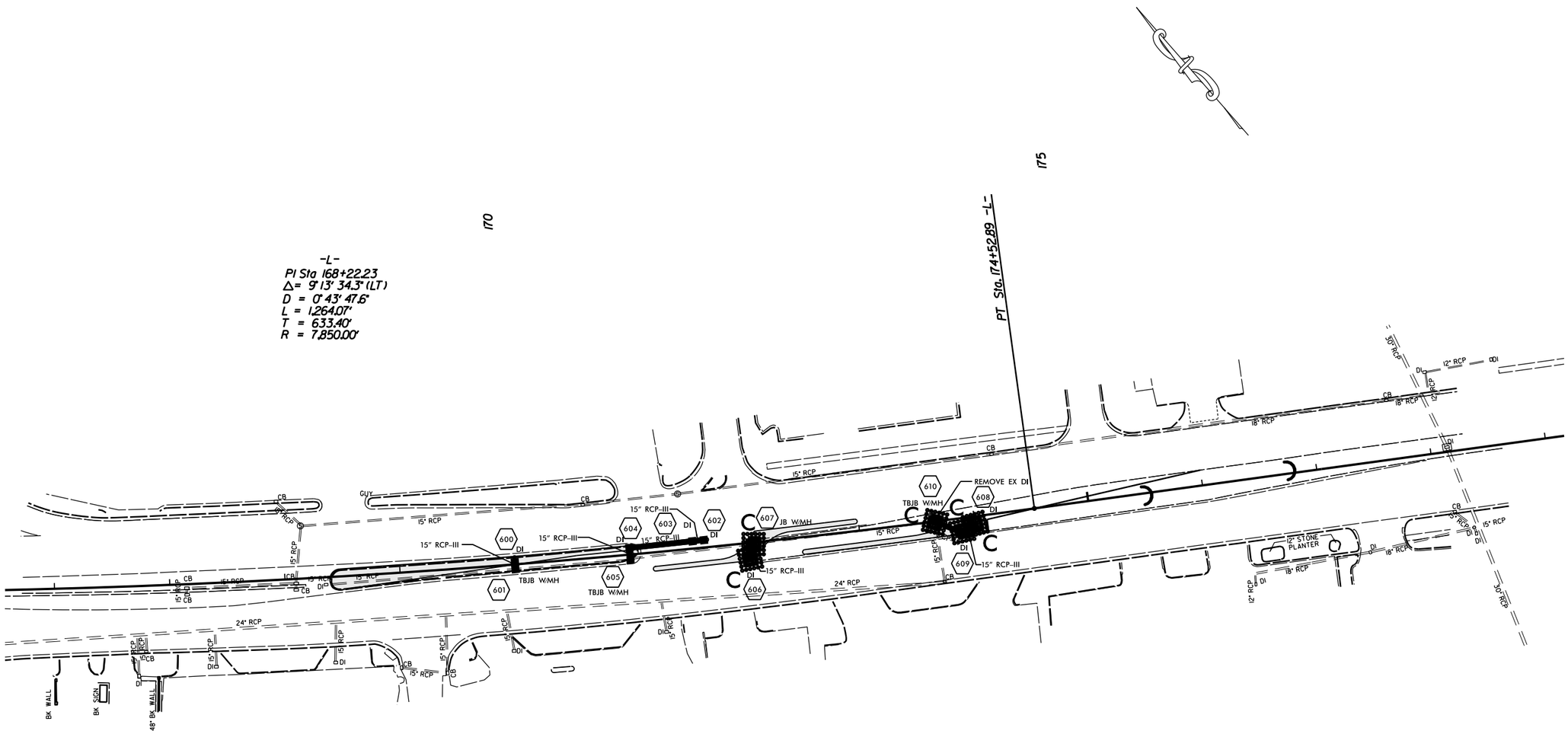


EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS IN UNION COUNTY

			REVISIONS	
SCALE	1"=50'			
DATE	FEB 2016			
DWG. BY	TBL			
DESIGN BY	JDH			
APPROVED	RWB			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	EC-4	
F.A. PROJECT NO.			

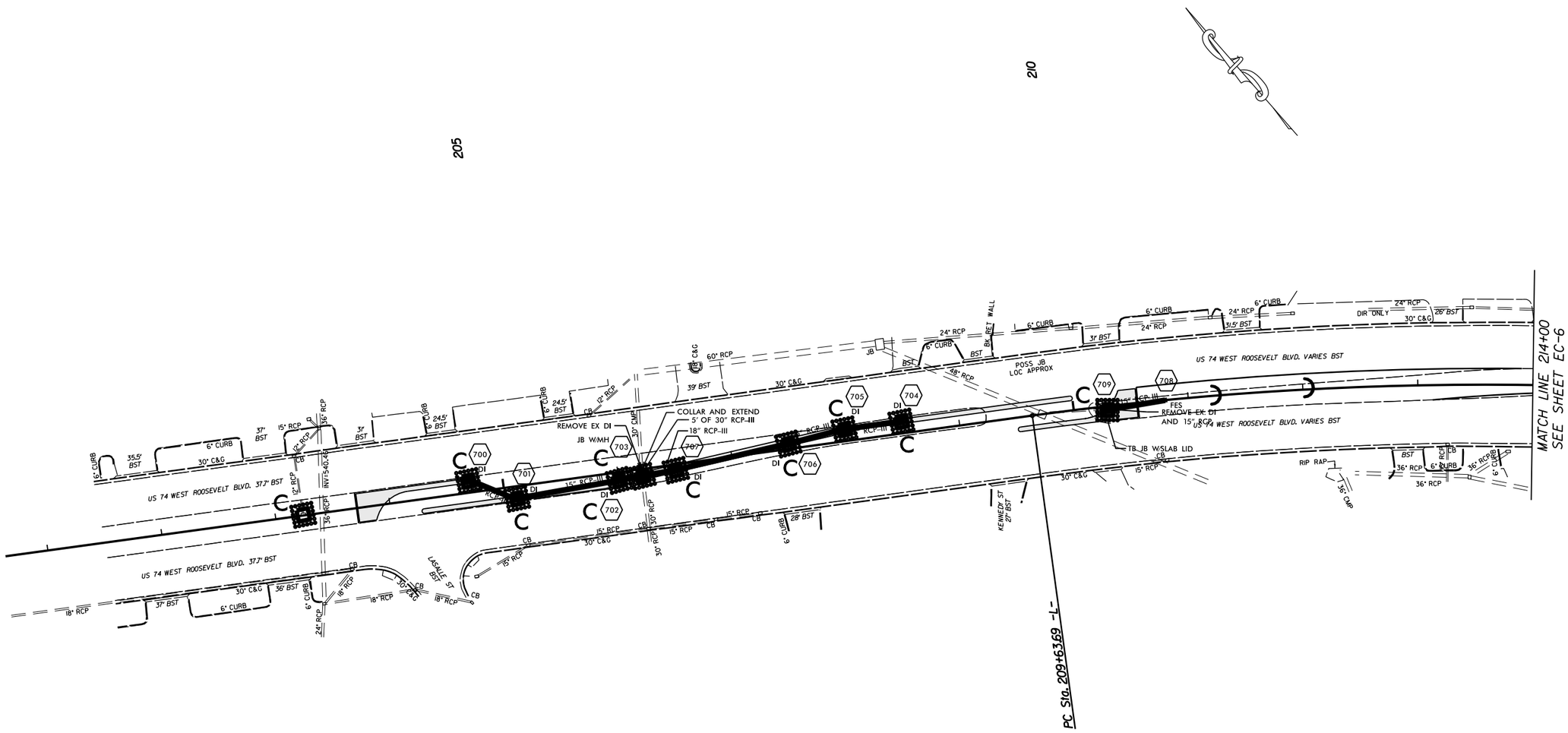


EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

SCALE	1"=50'		REVISIONS
DATE	FEB 2016		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	EC-5	
F.A. PROJECT NO.			

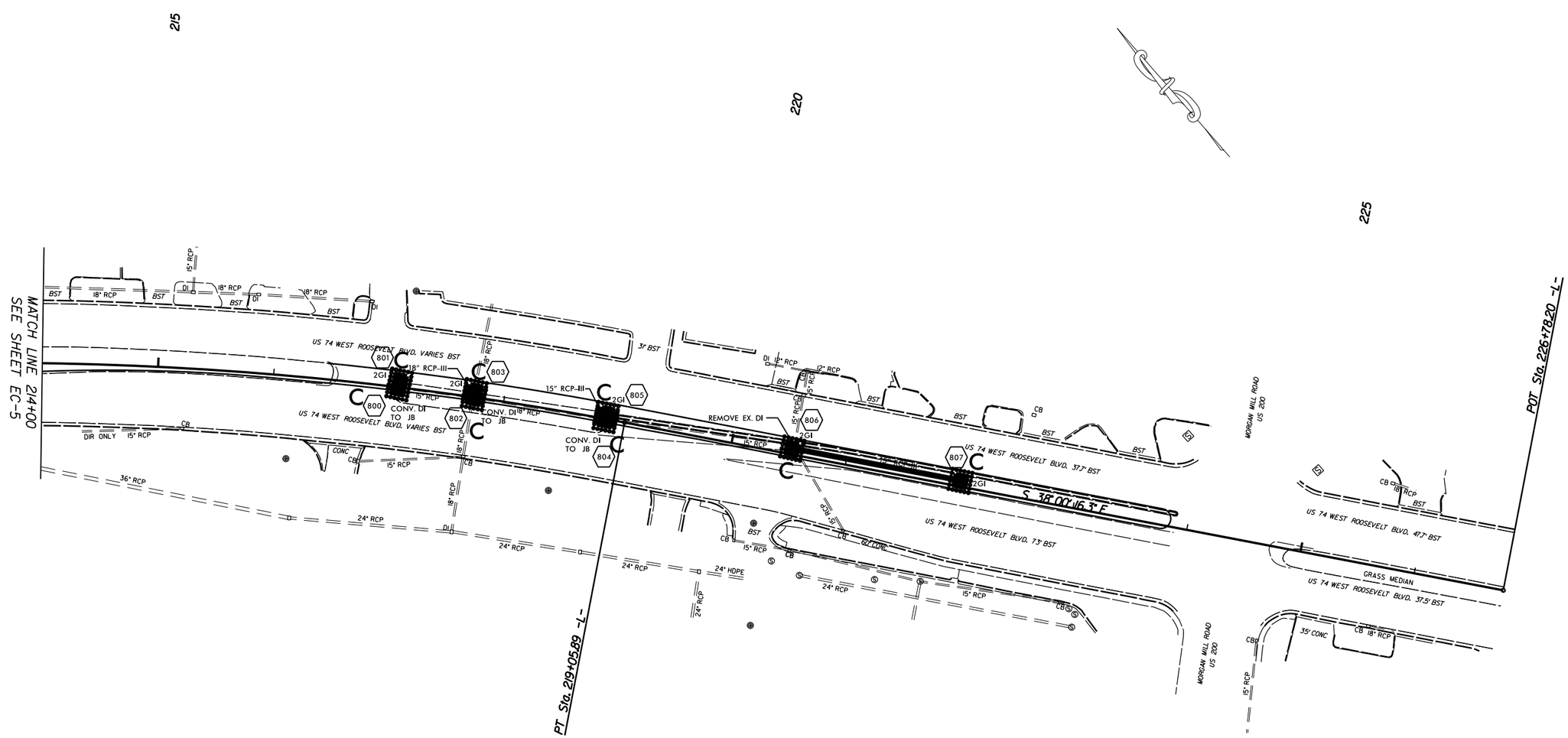


EROSION CONTROL MEASURES MAY BE CHANGED.
IN FIELD AS DIRECTED BY THE ENGINEER.

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

		REVISIONS	
SCALE	1"=50'		
DATE	FEB 2016		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	EC-6	
F.A. PROJECT NO.			



EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS IN UNION COUNTY

SCALE	1"=50'		REVISIONS
DATE	FEB 2016		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	PMP-1	
F.A. PROJECT NO.			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

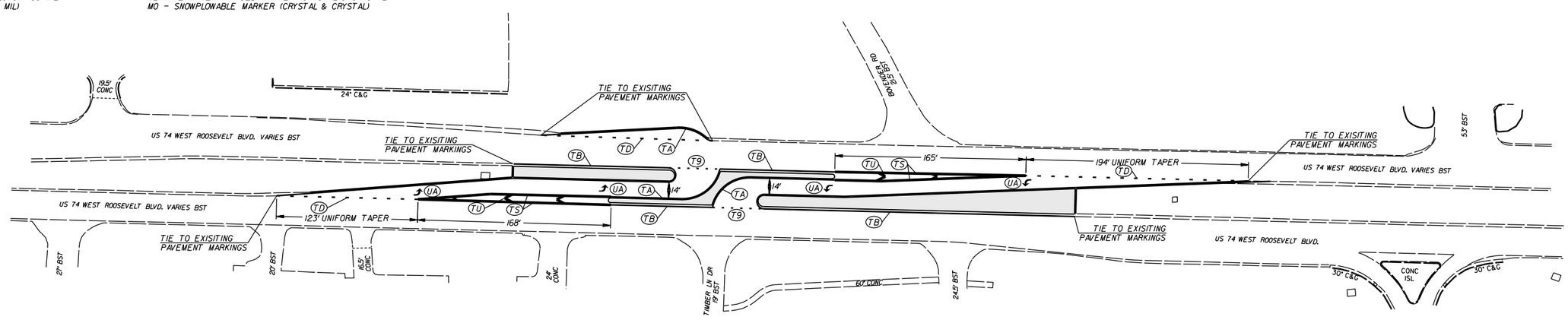
TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT.YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT.WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT.YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
TQ - WHITE CROSSWALK LINE (8",120 MIL)
TR - WHITE SOLID LANE LINE (8",120 MIL)
TS - WHITE GORELINE (12",90 MIL)
TT - WHITE SOLID LANE LINE (12",120 MIL)
TU - WHITE DIAGONAL (12",90 MIL)
TV - YELLOW DIAGONAL (12",90 MIL)
T1 - WHITE LINE,RR X (16",120 MIL)
T2 - WHITE STOPBAR (24",120 MIL)
T3 - WHITE CROSSWALK LINE (24",120 MIL)
T4 - WHITE RUMBLE STRIP (4",240 MIL)
T5 - YELLOW RUMBLE STRIP (4",240 MIL)
T6 - WHITE EDGELINE (6",90 MIL)
T7 - YELLOW EDGELINE (6",90 MIL)
T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
T9 - 2FT.-6FT./SP YELLOW MINISKIP (4",120 MIL)
T10 - 3FT.-3FT./SP WHITE MINISKIP (12",120 MIL)
T11 - 2FT.-6FT./SP WHITE MINISKIP (6",120 MIL)
T12 - 2FT.-6FT./SP YELLOW MINISKIP (6",120 MIL)
T13 - 3FT.-9FT./SP WHITE MINISKIP (8",120 MIL)
T14 - 3FT.-9FT./SP WHITE MINISKIP (12",120 MIL)
T15 - YELLOW SINGLE CENTER (6",120 MIL)
T16 - YELLOW DOUBLE CENTER (6",120 MIL)
T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

PAVEMENT MARKING SYMBOLS

UA -LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)
UD - COMBO.LEFT/STRAIGHT ARROW (90 MIL)
UE - COMBO.RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO.LEFT/RIGHT ARROW (90 MIL)
UG - COMBO.LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR.(120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)
UL - BICYCLE CHAR.(120 MIL)
UM - 12"YIELD LINE TRIANGLE (90 MIL)
UN - 24"YIELD LINE TRIANGLE (90 MIL)
UO - BICYCLE LEFT ARROW (90 MIL)
UP - MERGE ARROW (90 MIL)
UQ - RAMP ARROW SYMBOL (90 MIL)
UR - SHARROW (90 MIL)
US - BICYCLE LOOP DETECTOR (90 MIL)
UT - U-TURN ARROW (90 MIL)
UU - FISH-HOOK STRAIGHT ARROW (90 MIL)
UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)
UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)
UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)
UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)
WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
MC - PERMANENT RAISED MARKER (YELLOW & RED)
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

SCALE	1"=50'		REVISIONS
DATE	FEB 2016		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	PMP-2	
F.A. PROJECT NO.			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT.YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT.WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT.YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
TQ - WHITE CROSSWALK LINE (8",120 MIL)
TR - WHITE SOLID LANE LINE (8",120 MIL)
TS - WHITE GORELINE (12",90 MIL)
TT - WHITE SOLID LANE LINE (12",120 MIL)
TU - WHITE DIAGONAL (12",90 MIL)
TV - YELLOW DIAGONAL (12",90 MIL)
T1 - WHITE LINE, RR X (16",120 MIL)
T2 - WHITE STOPBAR (24",120 MIL)
T3 - WHITE CROSSWALK LINE (24",120 MIL)
T4 - WHITE RUMBLE STRIP (4",240 MIL)
T5 - YELLOW RUMBLE STRIP (4",240 MIL)
T6 - WHITE EDGELINE (6",90 MIL)
T7 - YELLOW EDGELINE (6",90 MIL)
T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
T9 - 2FT.-6FT./SP YELLOW MINISKIP (4",120 MIL)
T10 - 3FT.-3FT./SP WHITE MINISKIP (12",120 MIL)
T11 - 2FT.-6FT./SP WHITE MINISKIP (6",120 MIL)
T12 - 2FT.-6FT./SP YELLOW MINISKIP (6",120 MIL)
T13 - 3FT.-9FT./SP WHITE MINISKIP (8",120 MIL)
T14 - 3FT.-9FT./SP WHITE MINISKIP (12",120 MIL)
T15 - YELLOW SINGLE CENTER (6",120 MIL)
T16 - YELLOW DOUBLE CENTER (6",120 MIL)
T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

PAVEMENT MARKING SYMBOLS

UA -LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)
UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)
UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO. LEFT/RIGHT ARROW (90 MIL)
UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR. (120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)
UL - BICYCLE CHAR. (120 MIL)
UM - 12" YIELD LINE TRIANGLE (90 MIL)
UN - 24" YIELD LINE TRIANGLE (90 MIL)
UO - BICYCLE LEFT ARROW (90 MIL)
UP - MERGE ARROW (90 MIL)
UQ - RAMP ARROW SYMBOL (90 MIL)
UR - SHARROW (90 MIL)
US - BICYCLE LOOP DETECTOR (90 MIL)
UT - U-TURN ARROW (90 MIL)
UU - FISH-HOOK STRAIGHT ARROW (90 MIL)
UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)
UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)
UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)
UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)
WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
MC - PERMANENT RAISED MARKER (YELLOW & RED)
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
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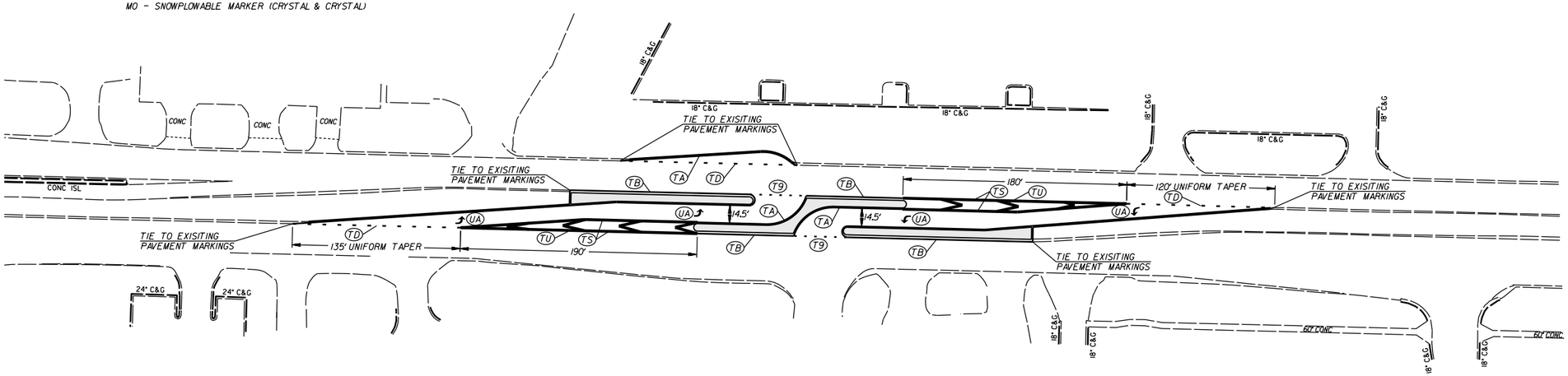
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS IN UNION COUNTY

SCALE	1"=50'	REVISIONS
DATE	FEB 2016	
DWG. BY	TBL	
DESIGN BY	JDH	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3J2	PMP-3	
F.A. PROJECT NO.			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT.YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
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TJ - 10FT.WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT.YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
TQ - WHITE CROSSWALK LINE (8",120 MIL)
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TV - YELLOW DIAGONAL (12",90 MIL)
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T3 - WHITE CROSSWALK LINE (24",120 MIL)
T4 - WHITE RUMBLE STRIP (4",240 MIL)
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T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
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T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

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UA -LEFT TURN ARROW (90 MIL)
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UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR.(120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
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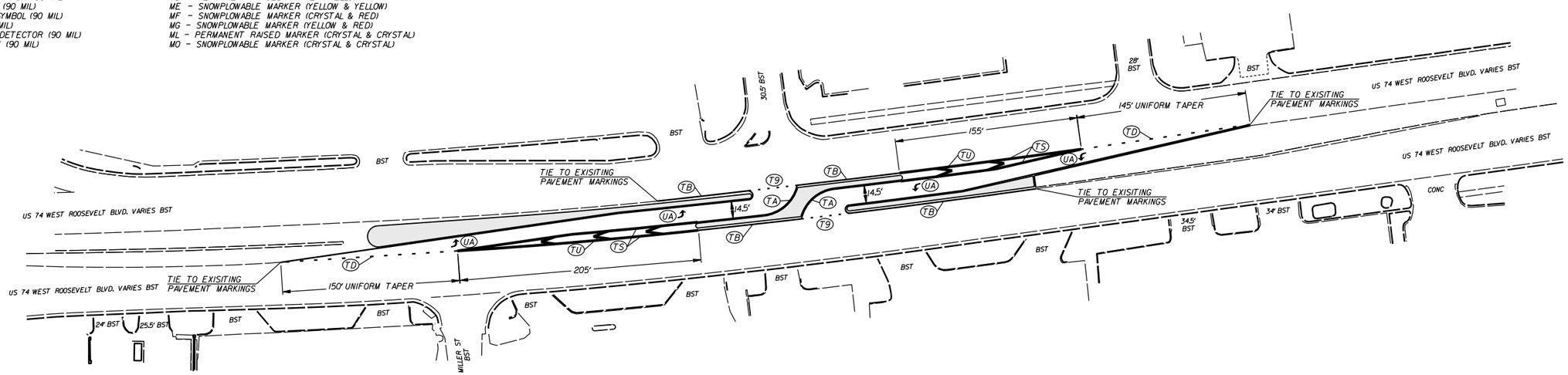

US 74 LEFTOVERS AND DIRECTIONAL CROSSOVERS IN UNION COUNTY

SCALE	1"=50'	
DATE	FEB 2016	
DWG. BY	TBL	
DESIGN BY	JDH	
APPROVED	RWB	

REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	PMP-4	
F.A. PROJECT NO.			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
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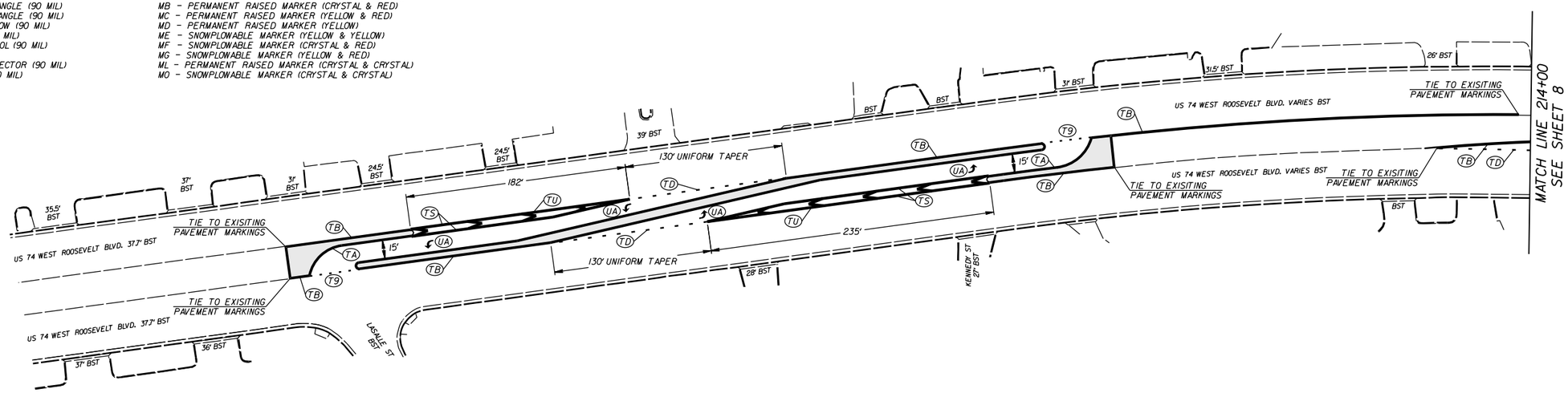

US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

SCALE	1"=50'		REVISIONS
DATE	FEB 2016		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.12	PMP-5	
F.A. PROJECT NO.			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
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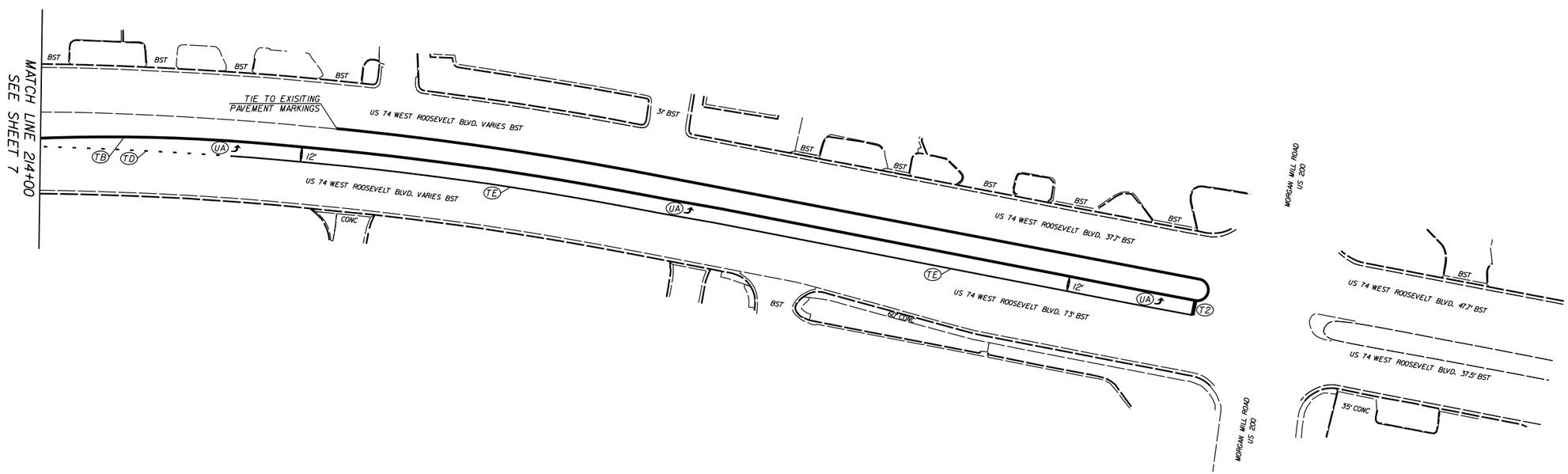
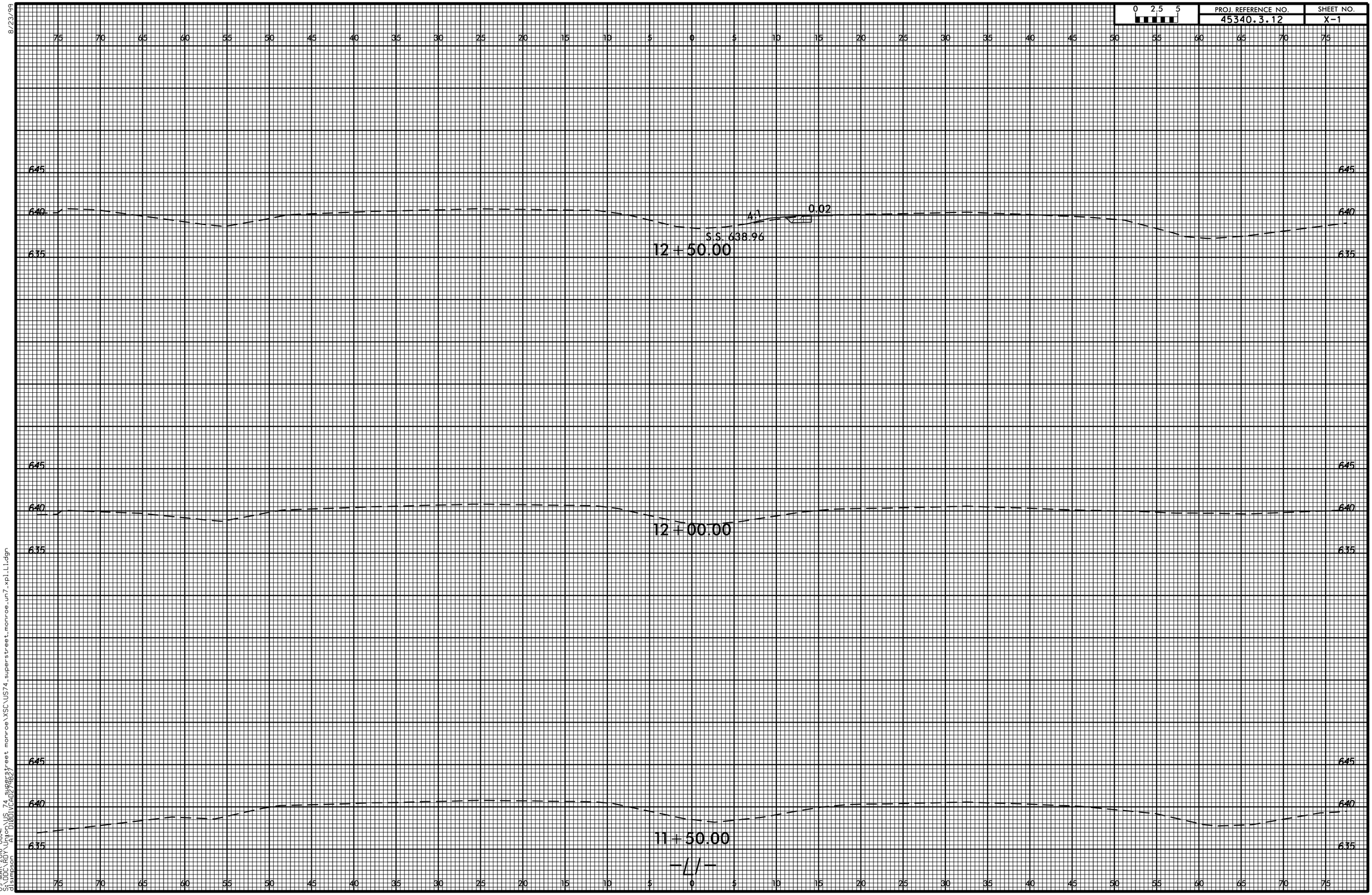


US 74 LEFTOVERS AND
DIRECTIONAL CROSSOVERS
IN UNION COUNTY

SCALE	1"=50'		REVISIONS
DATE	FEB 2016		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	RWB		



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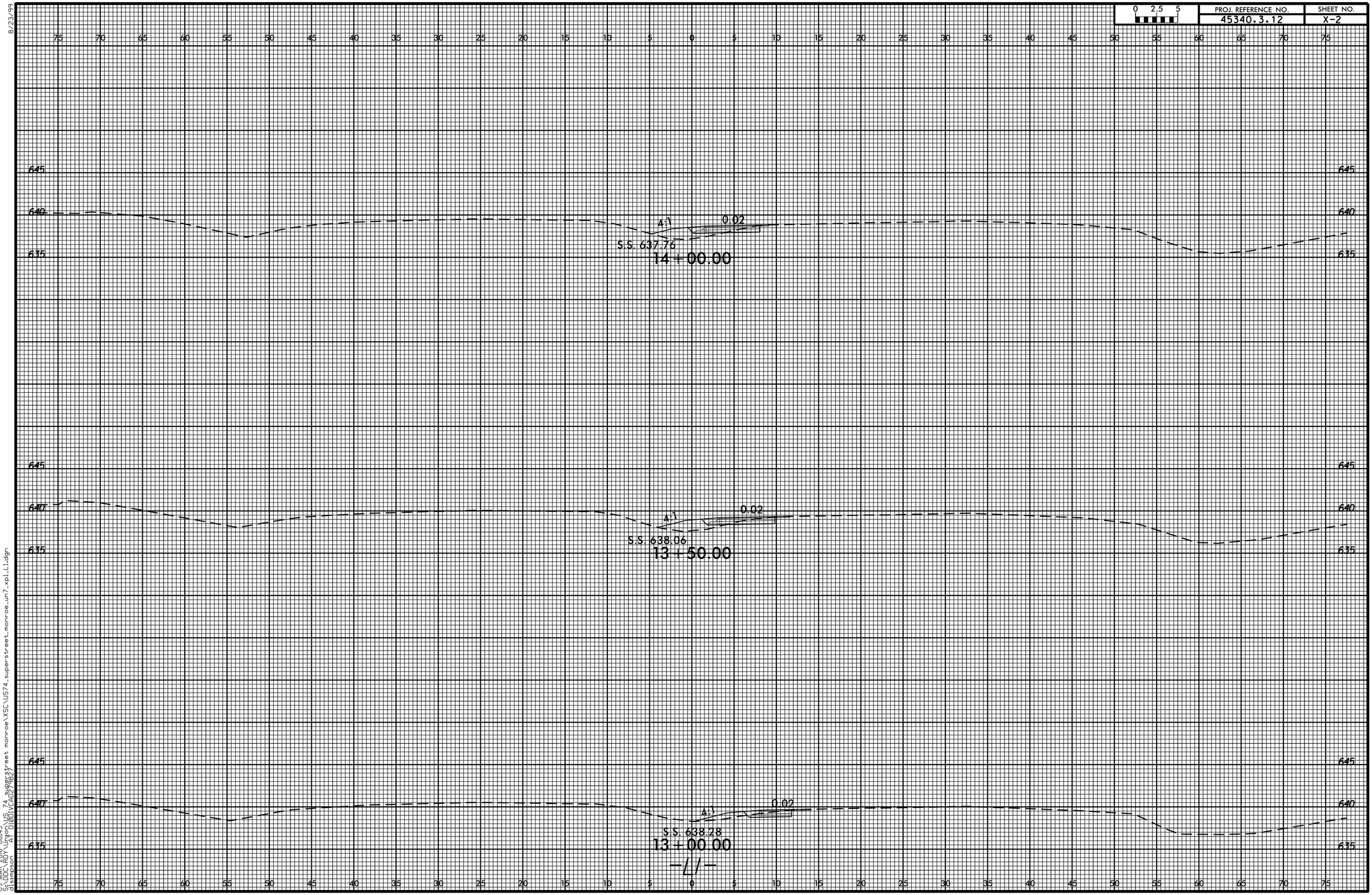

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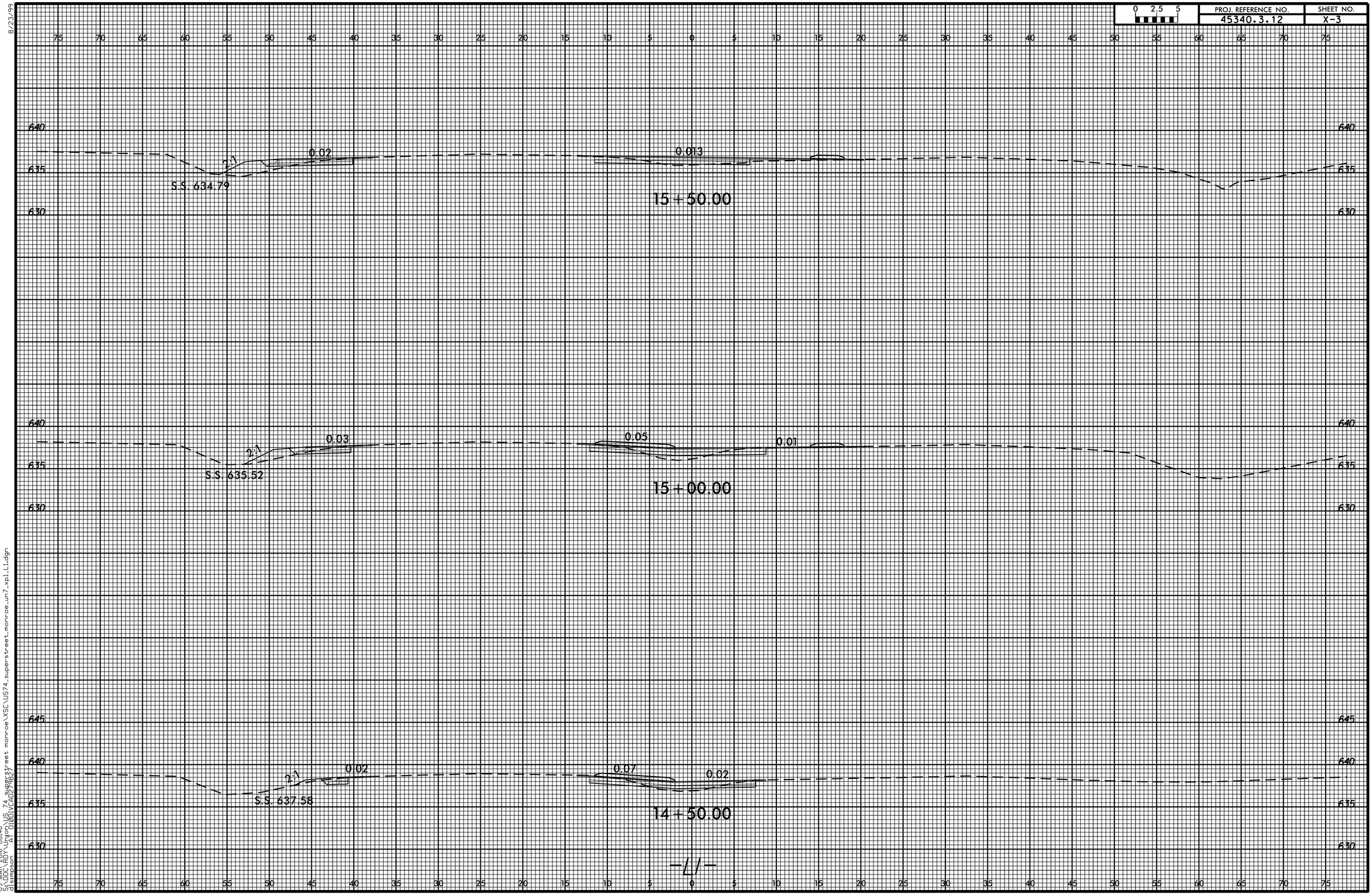

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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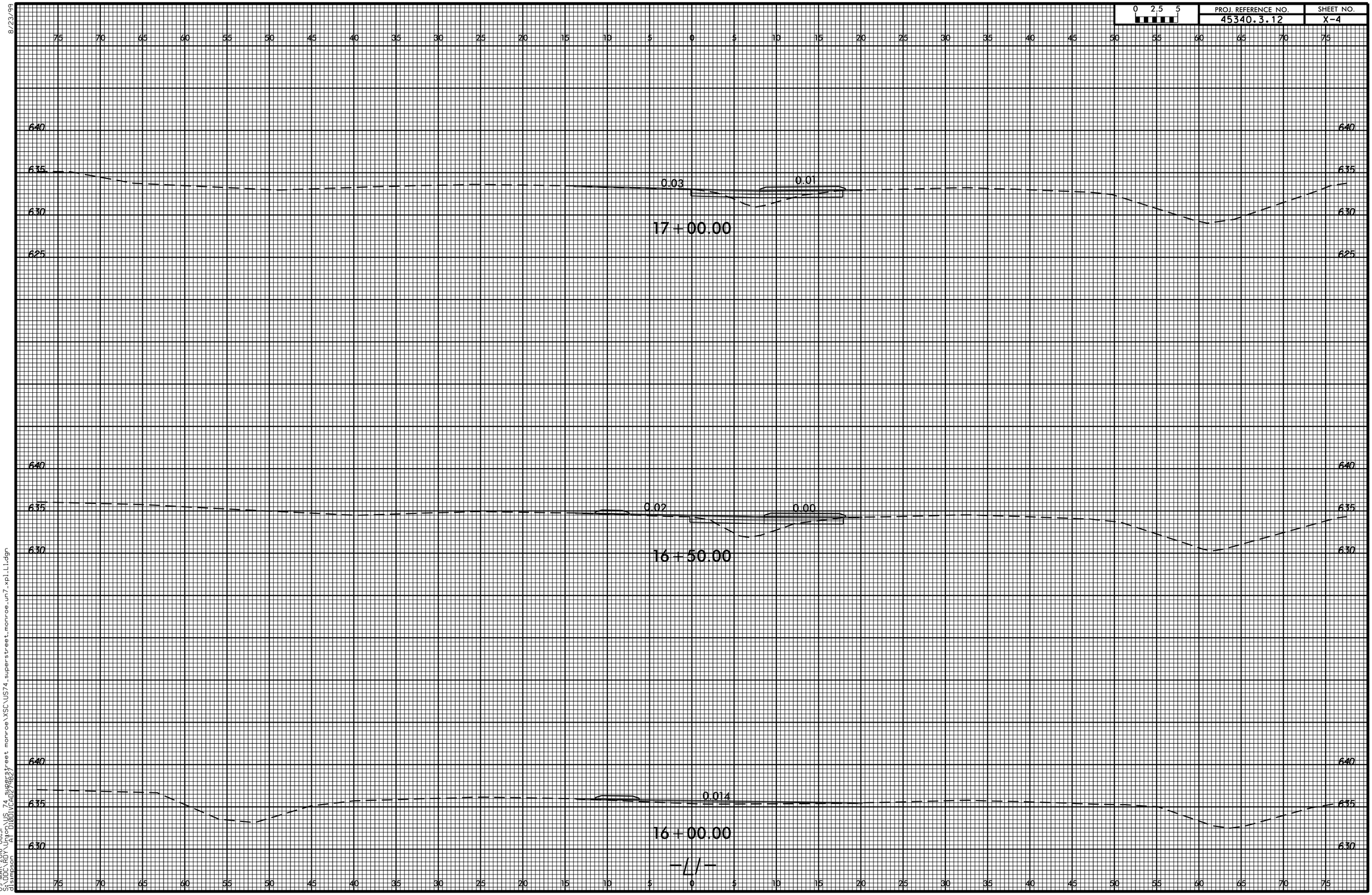

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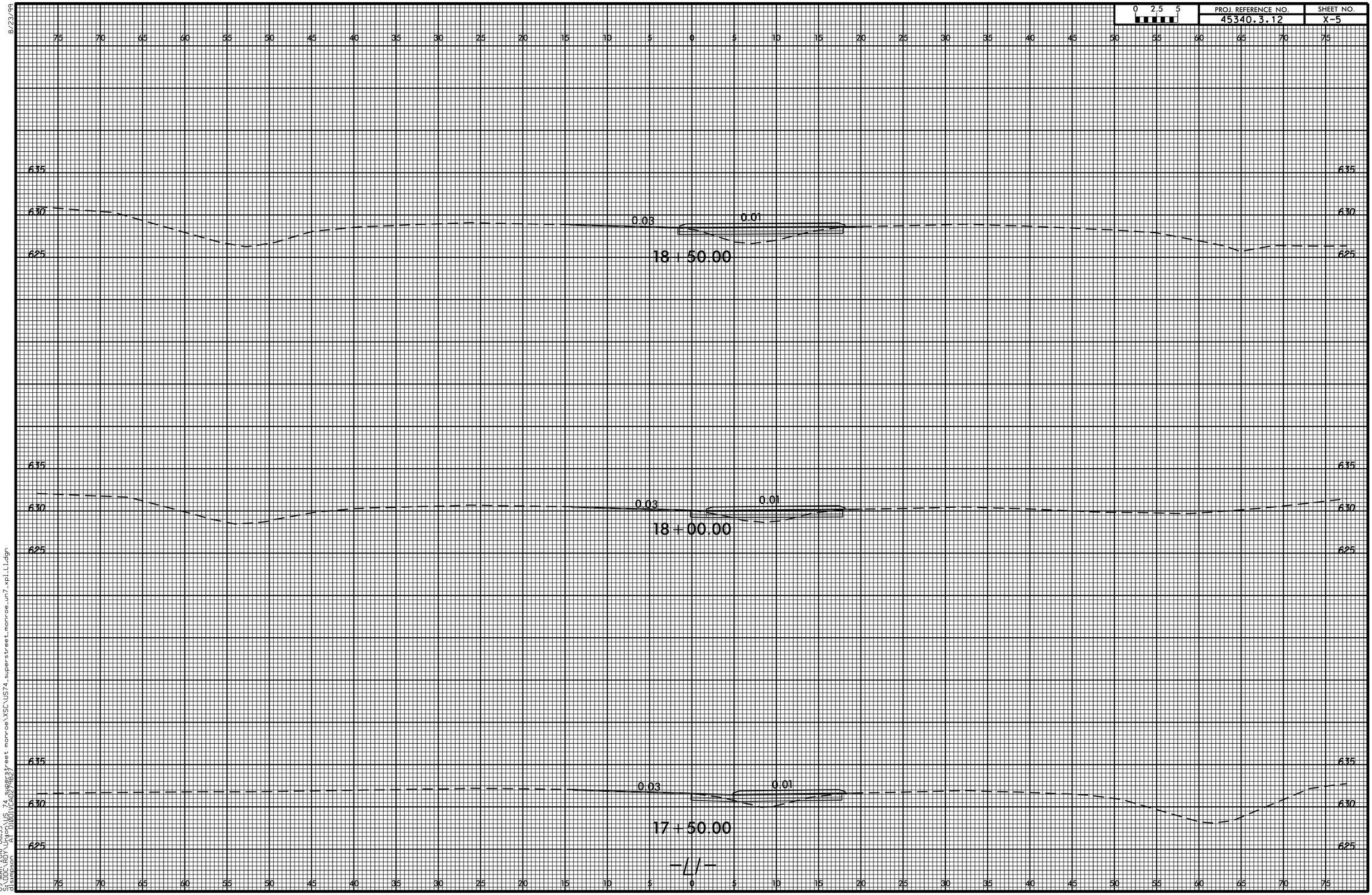
	45340.3.12	X-5



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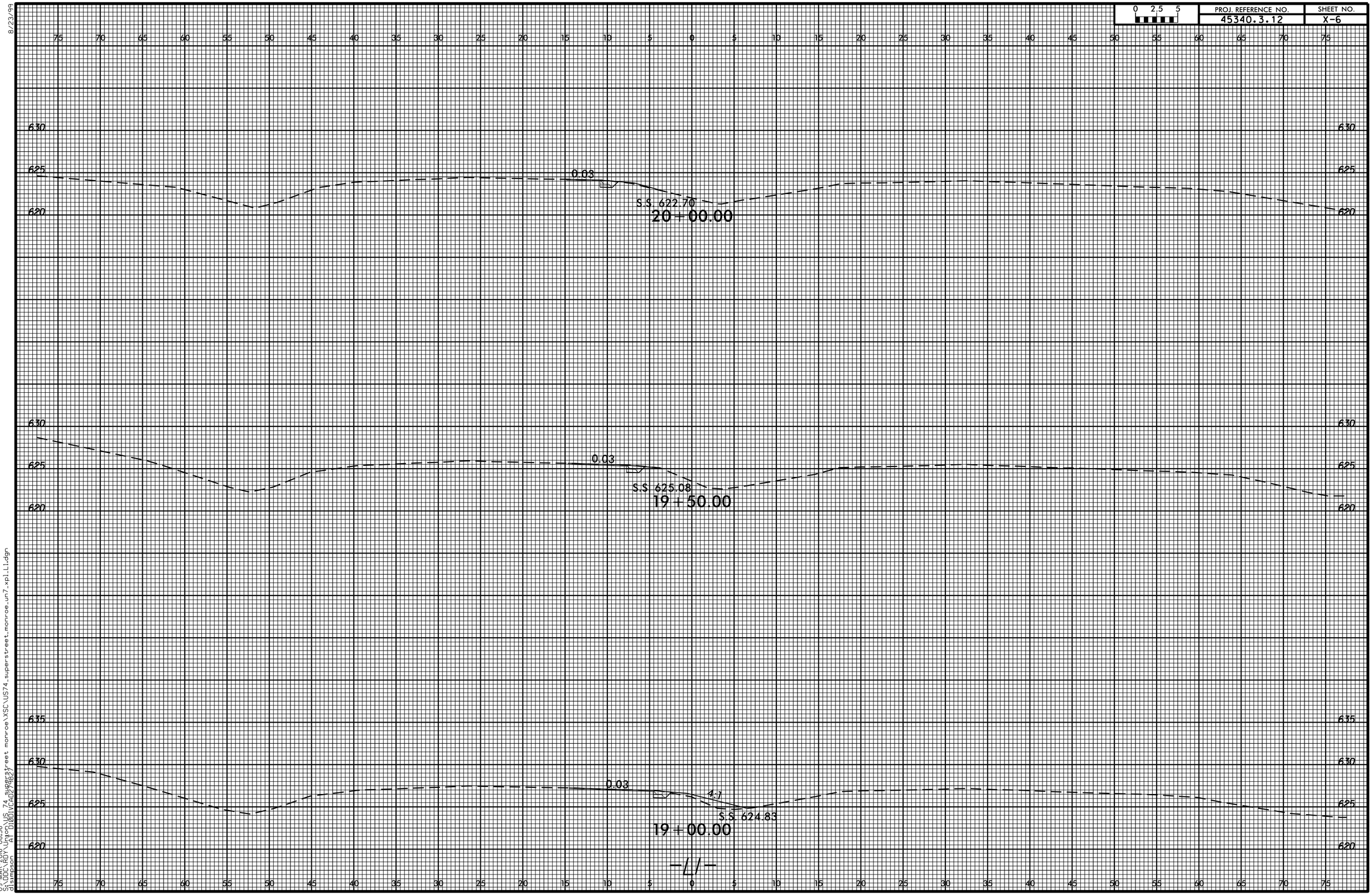

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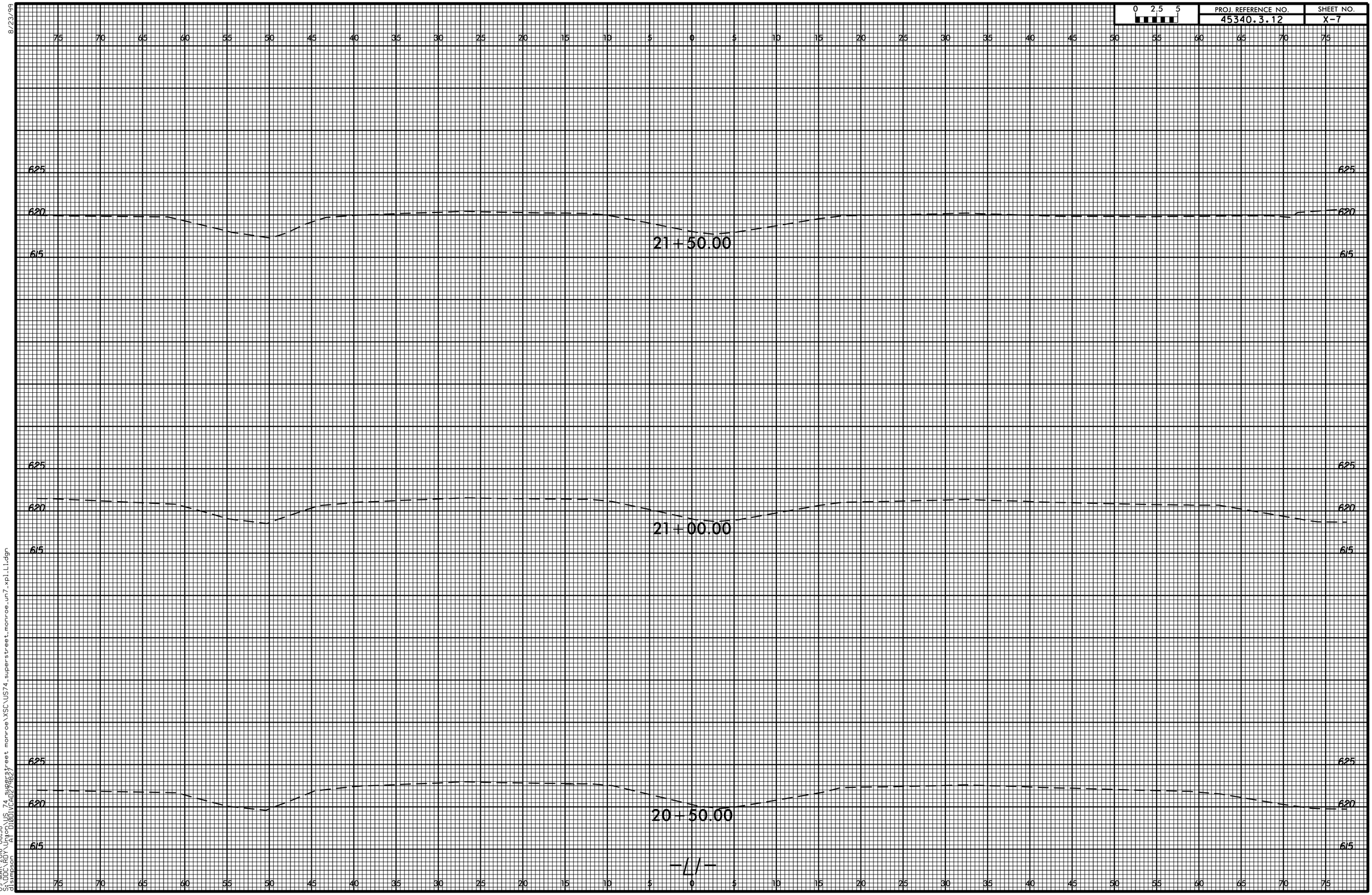

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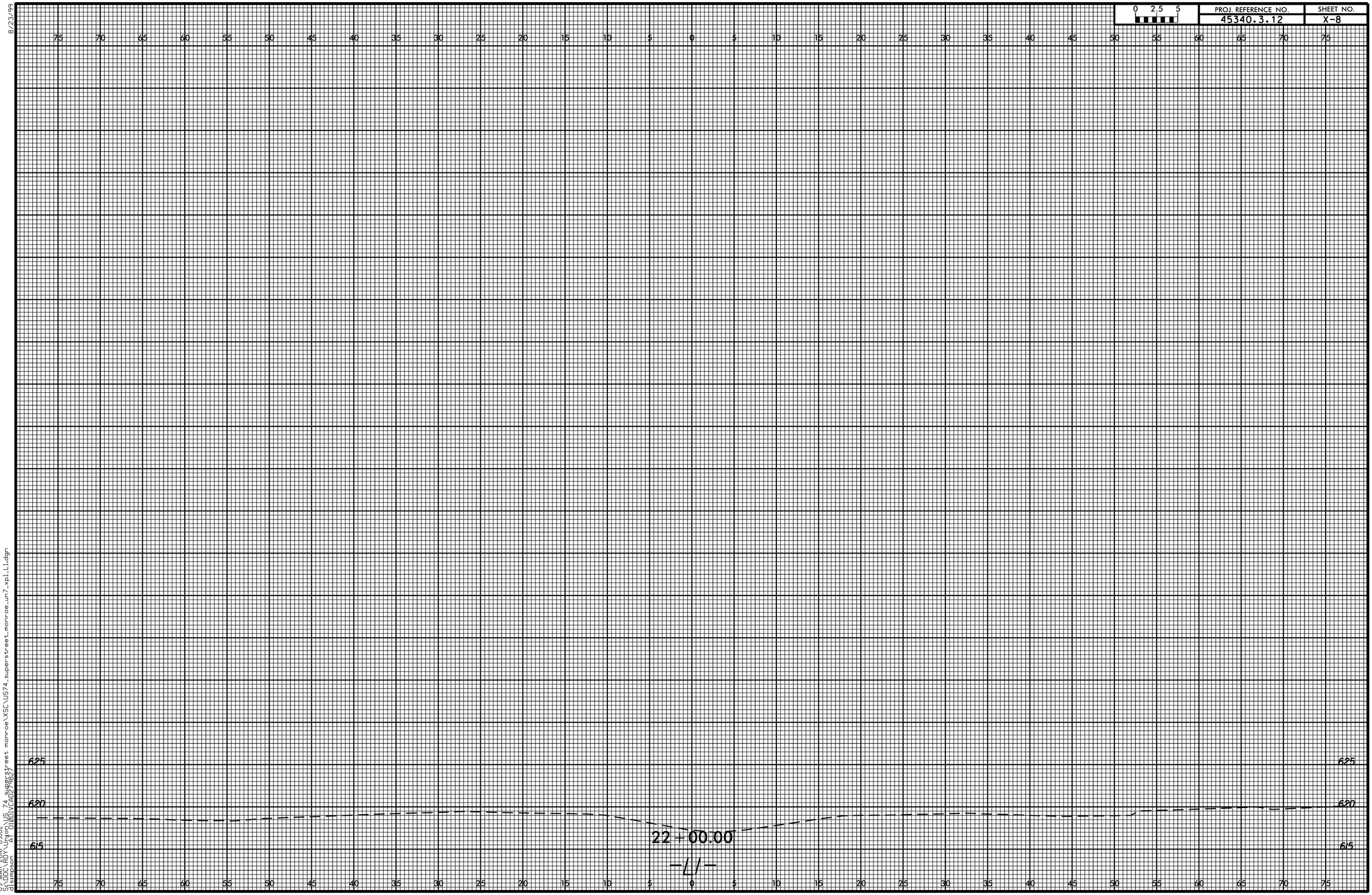

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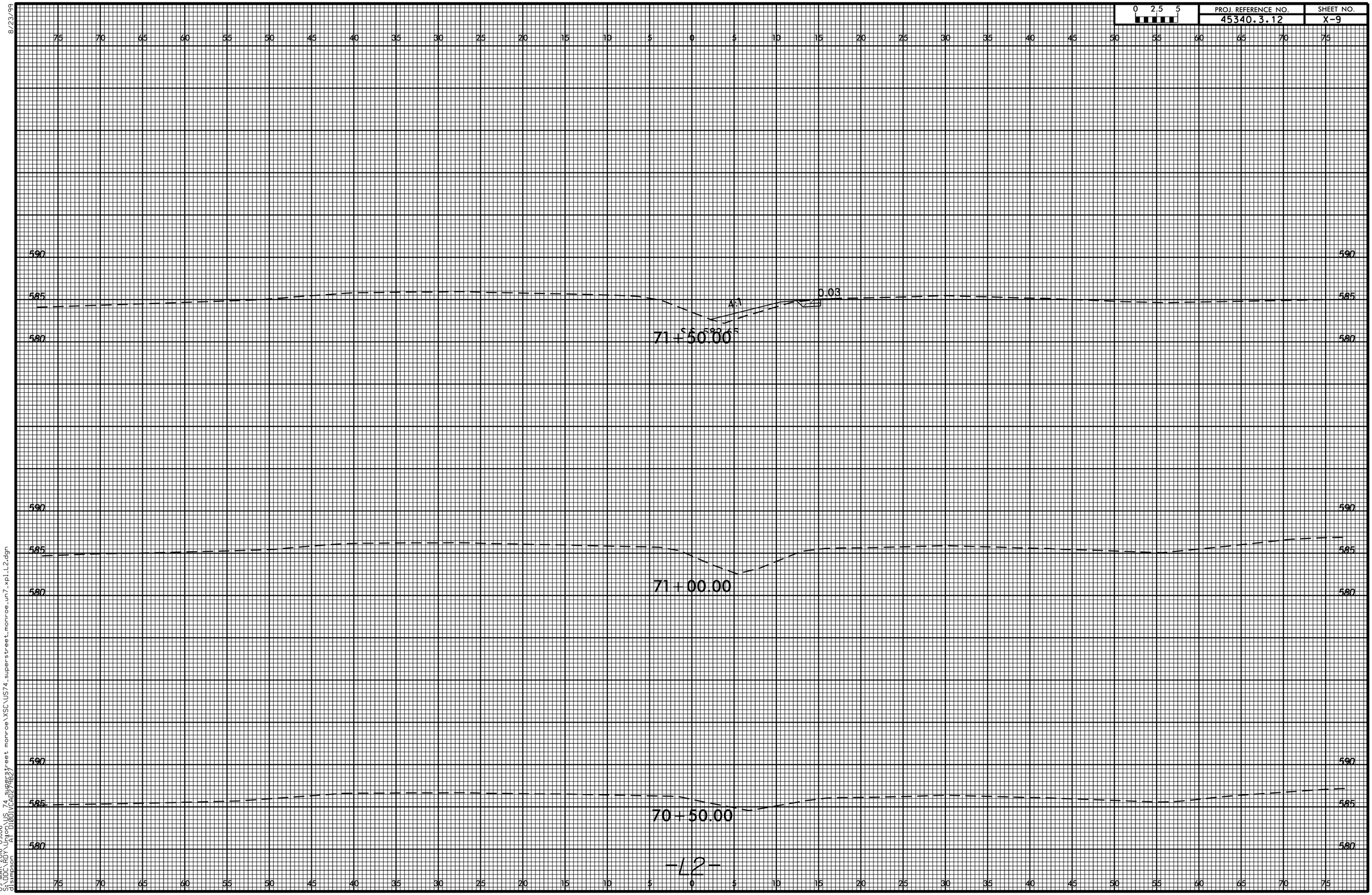

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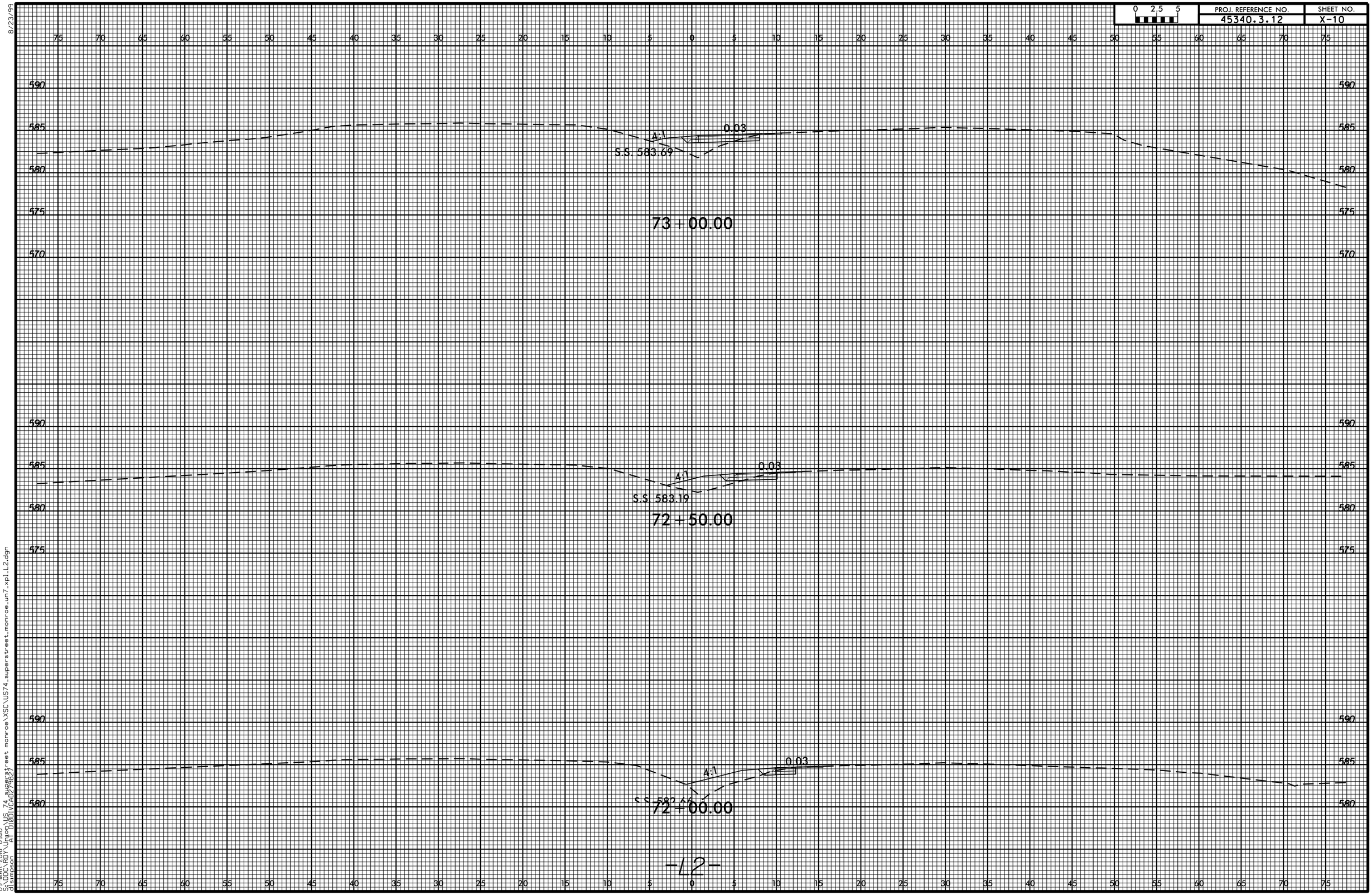

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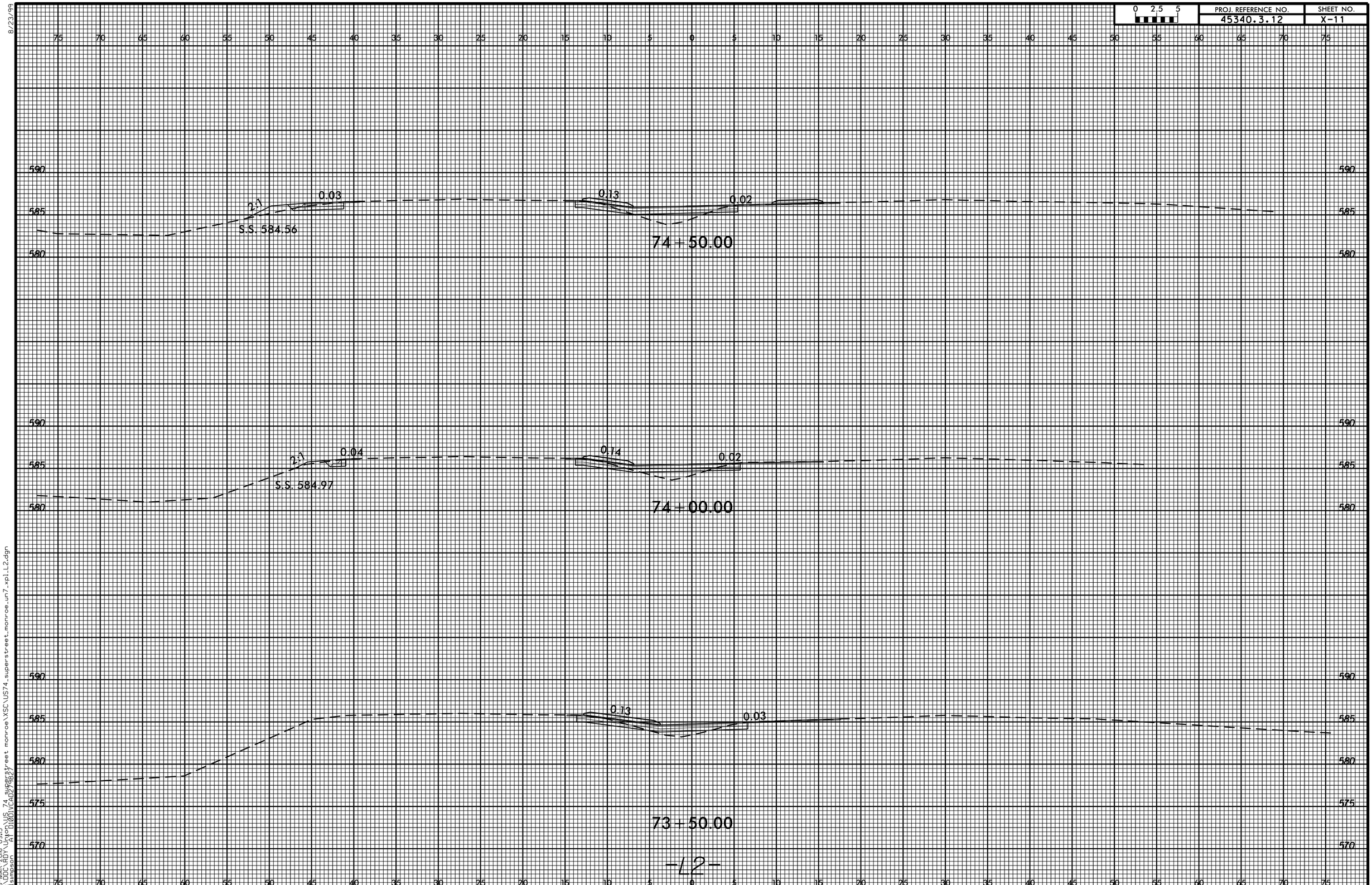

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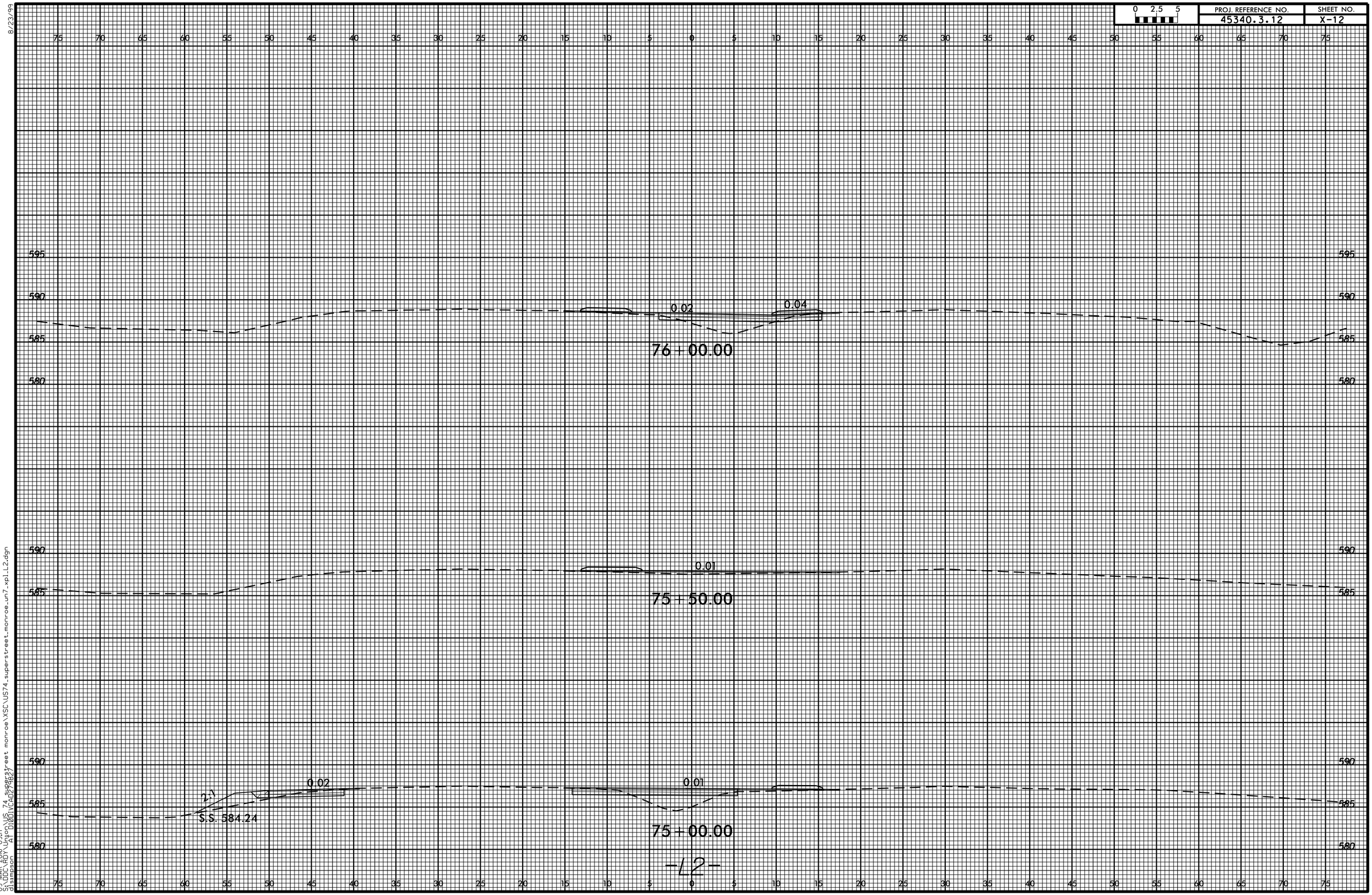

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8/23/99

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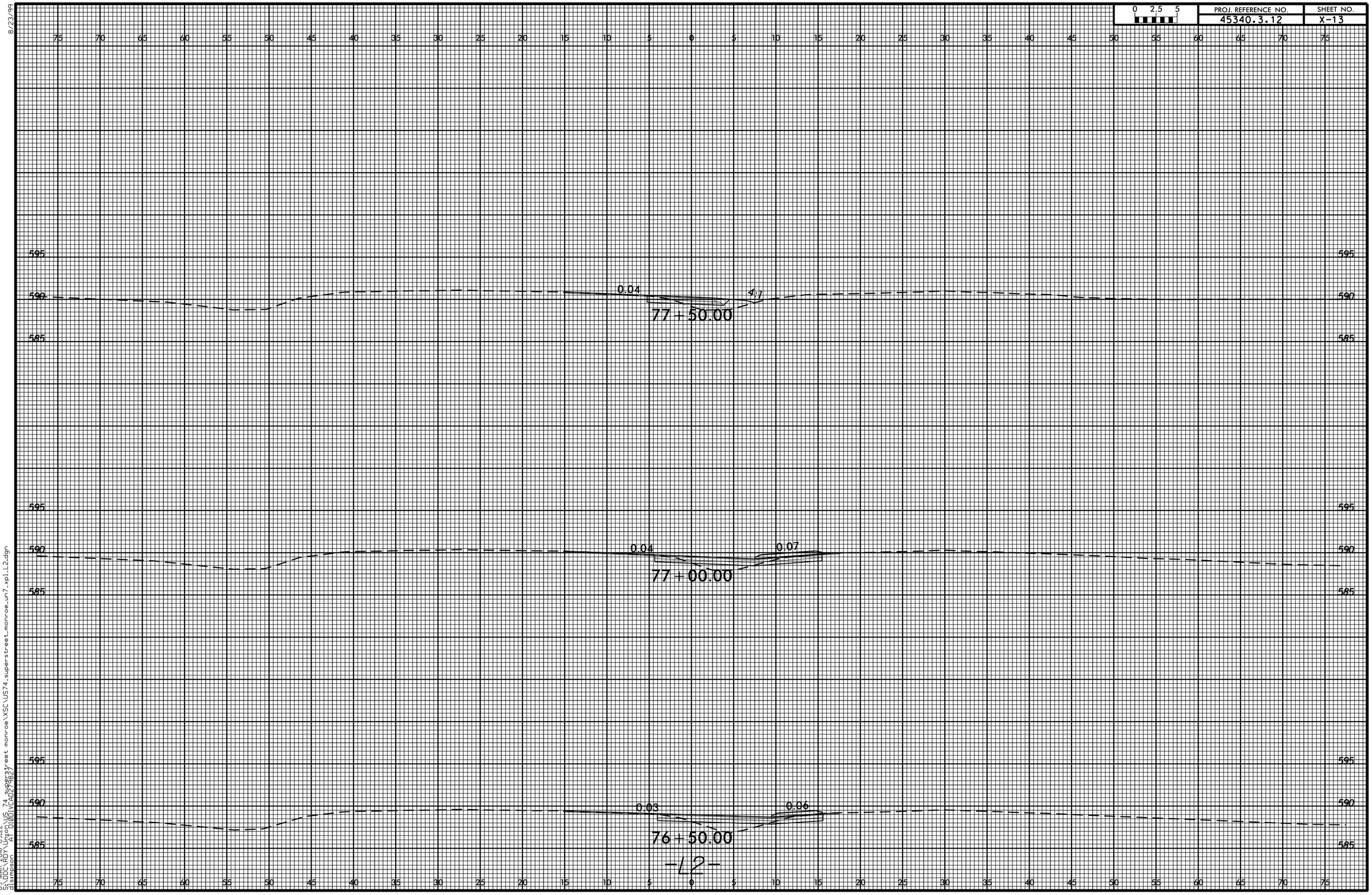

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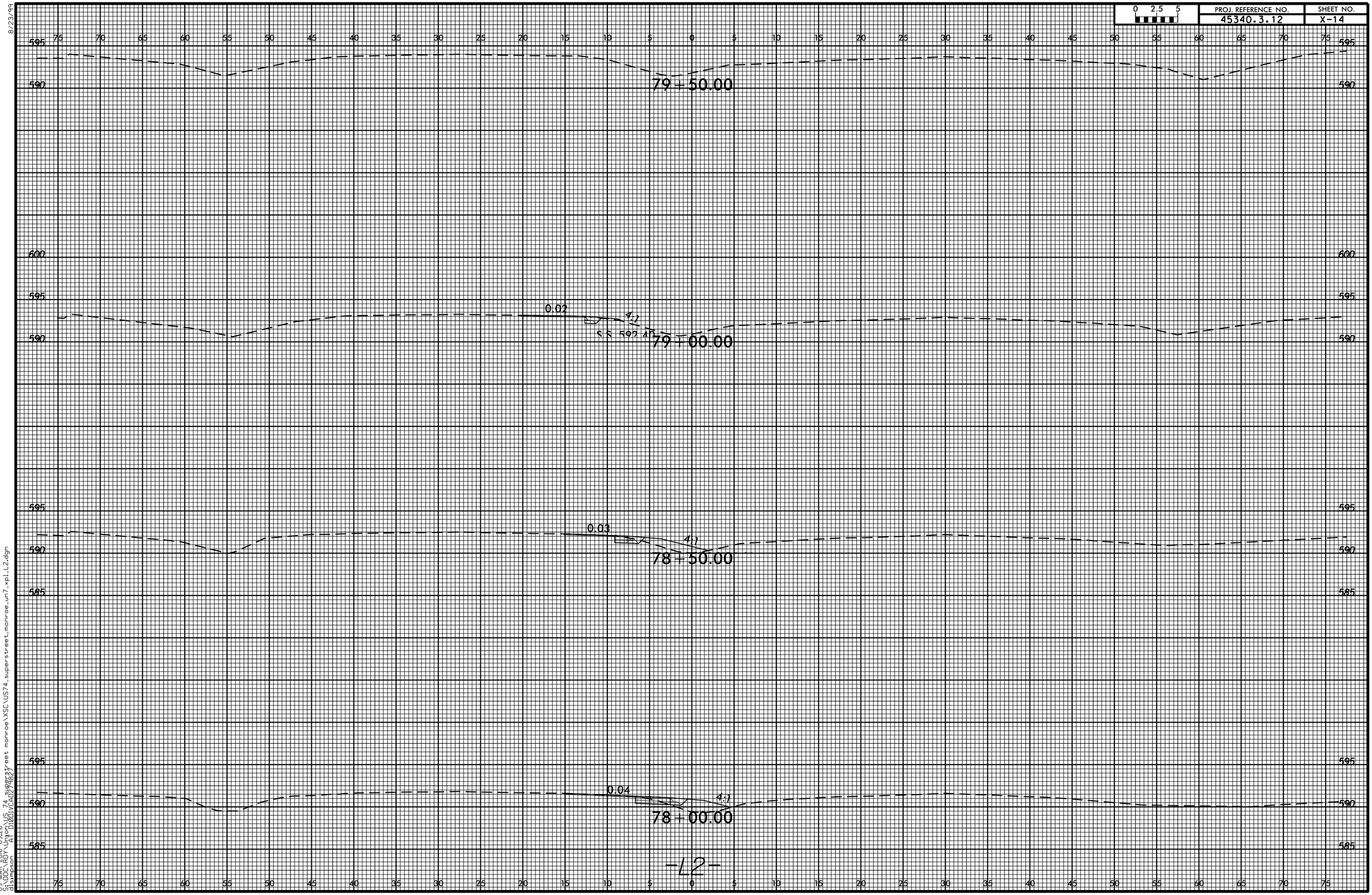

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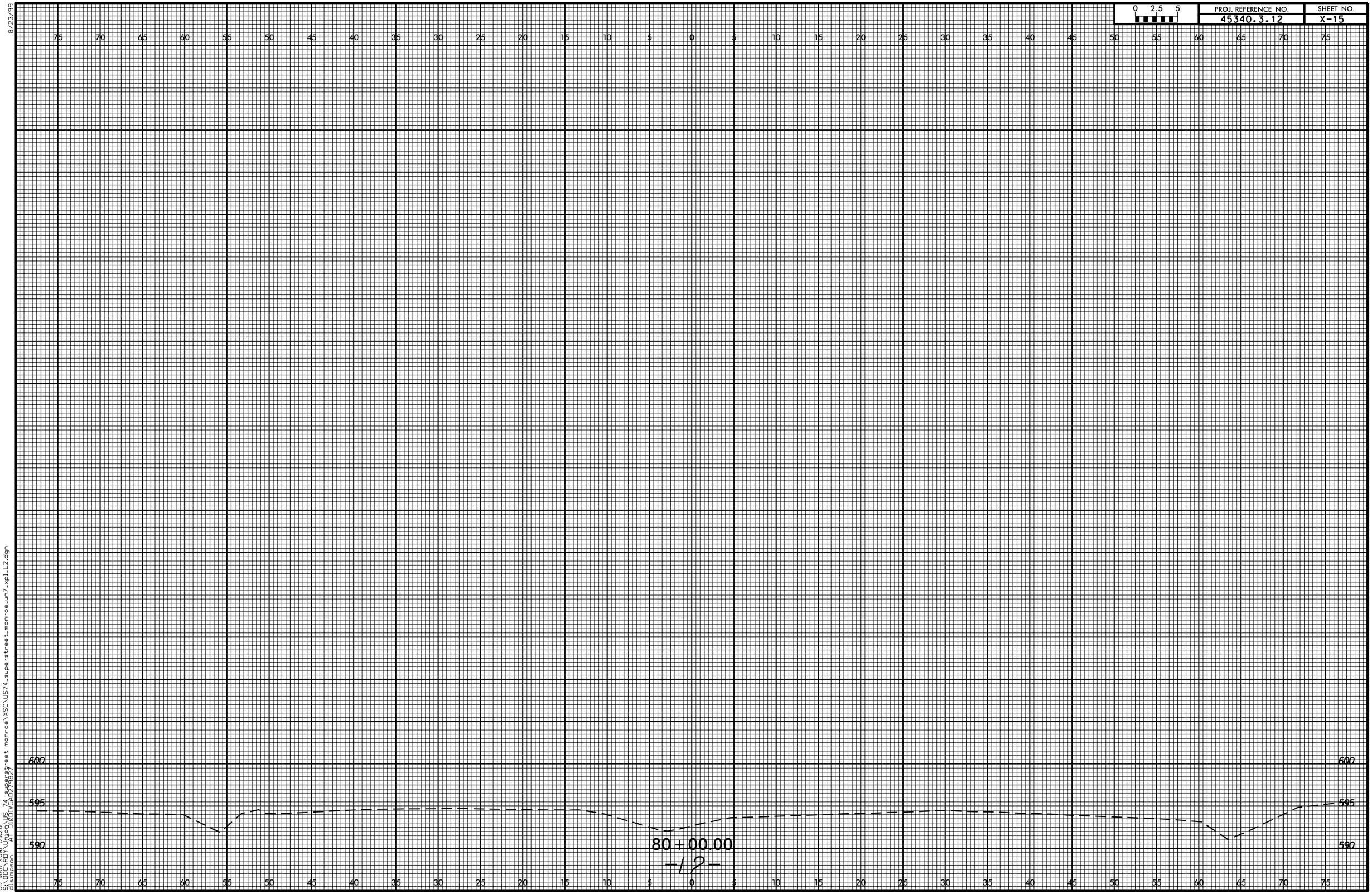

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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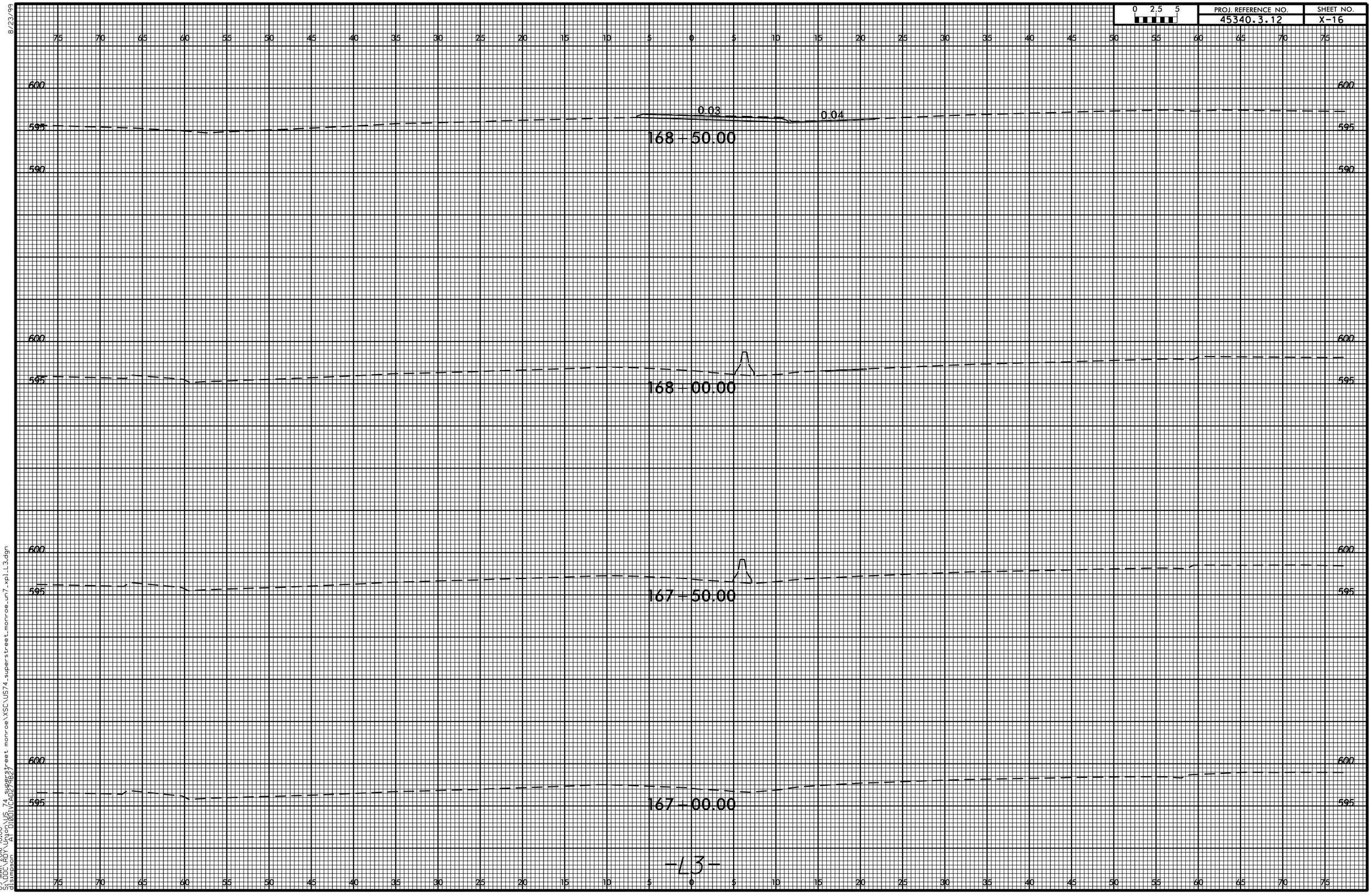

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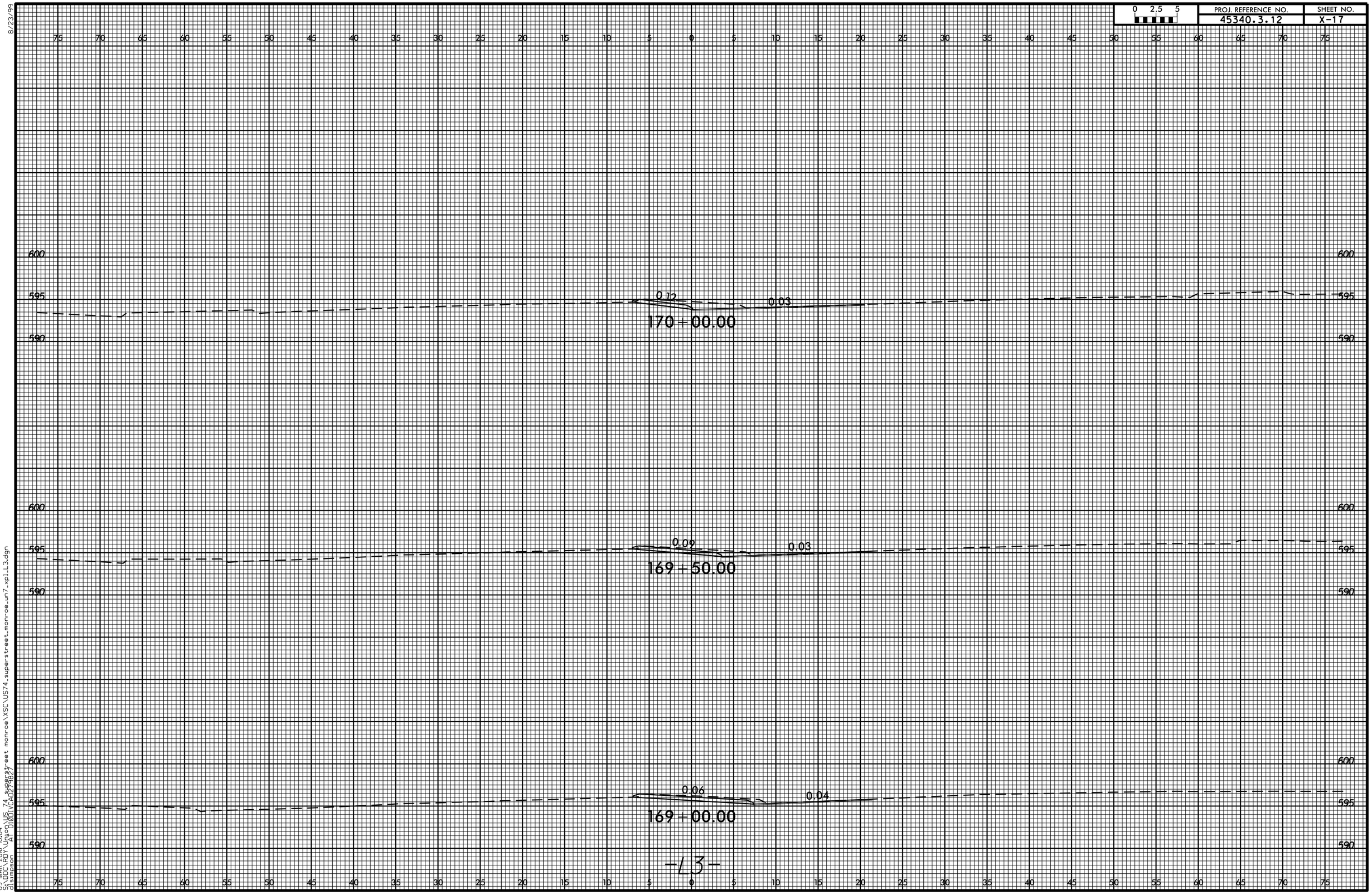

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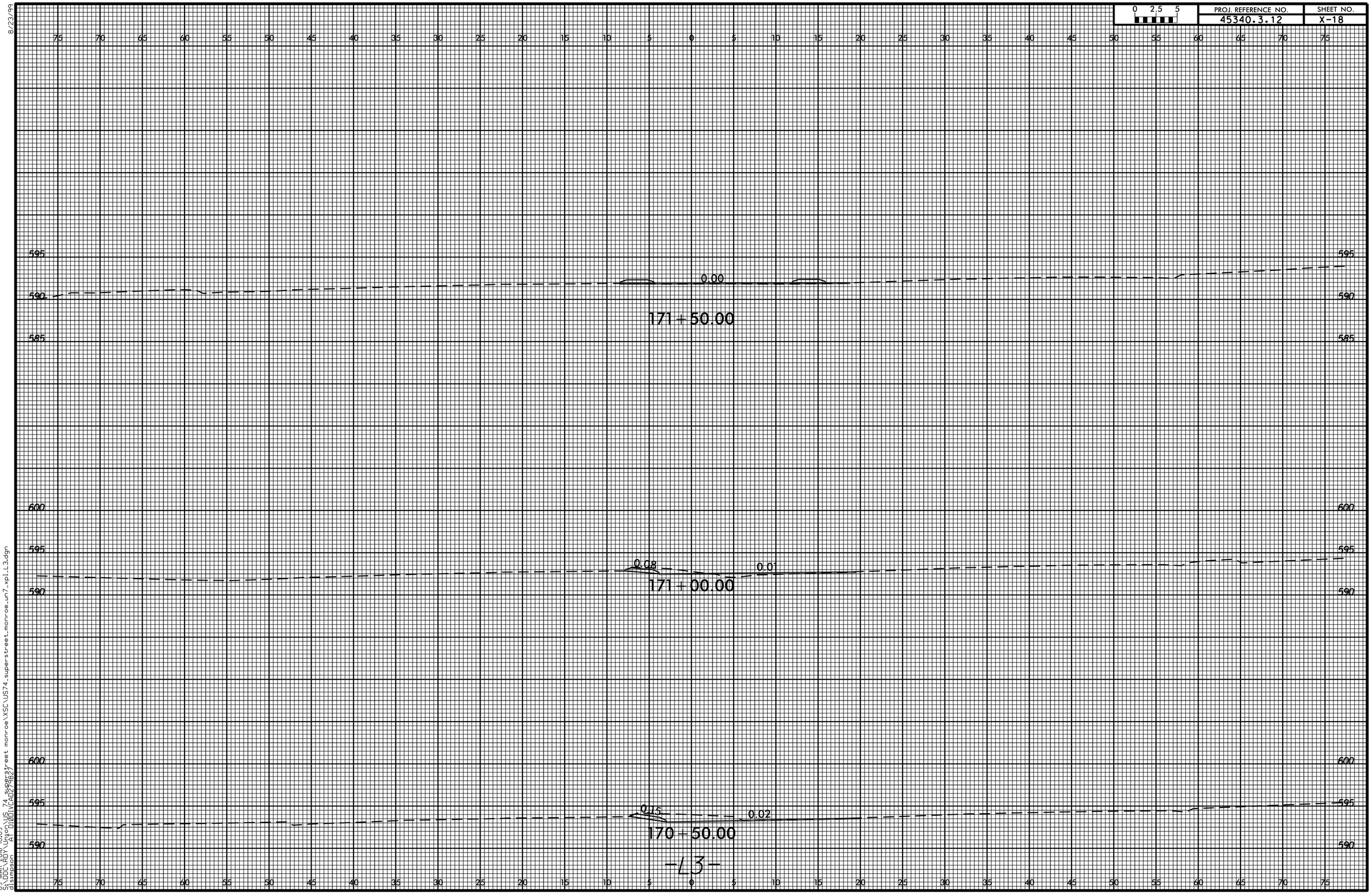

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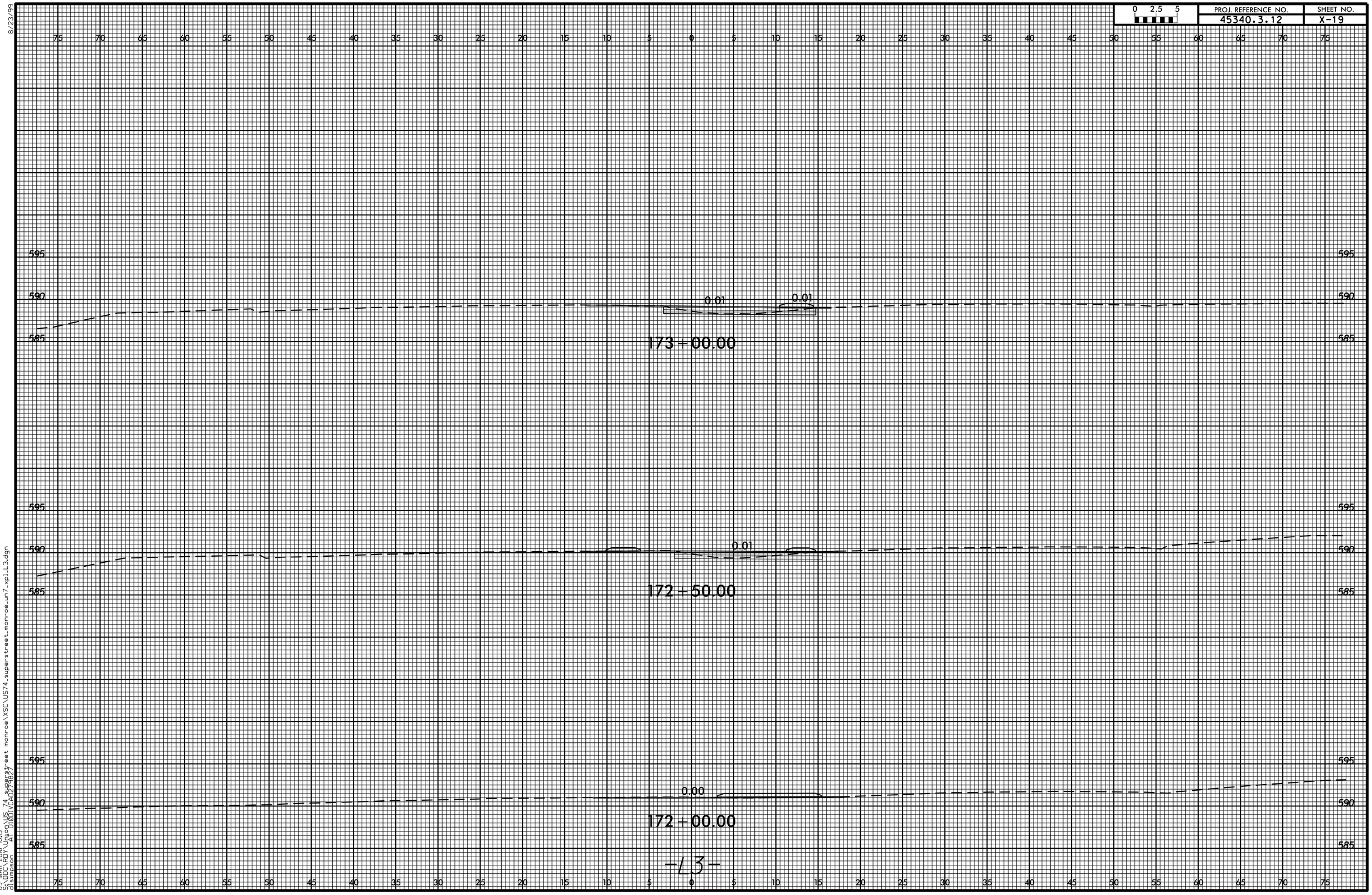

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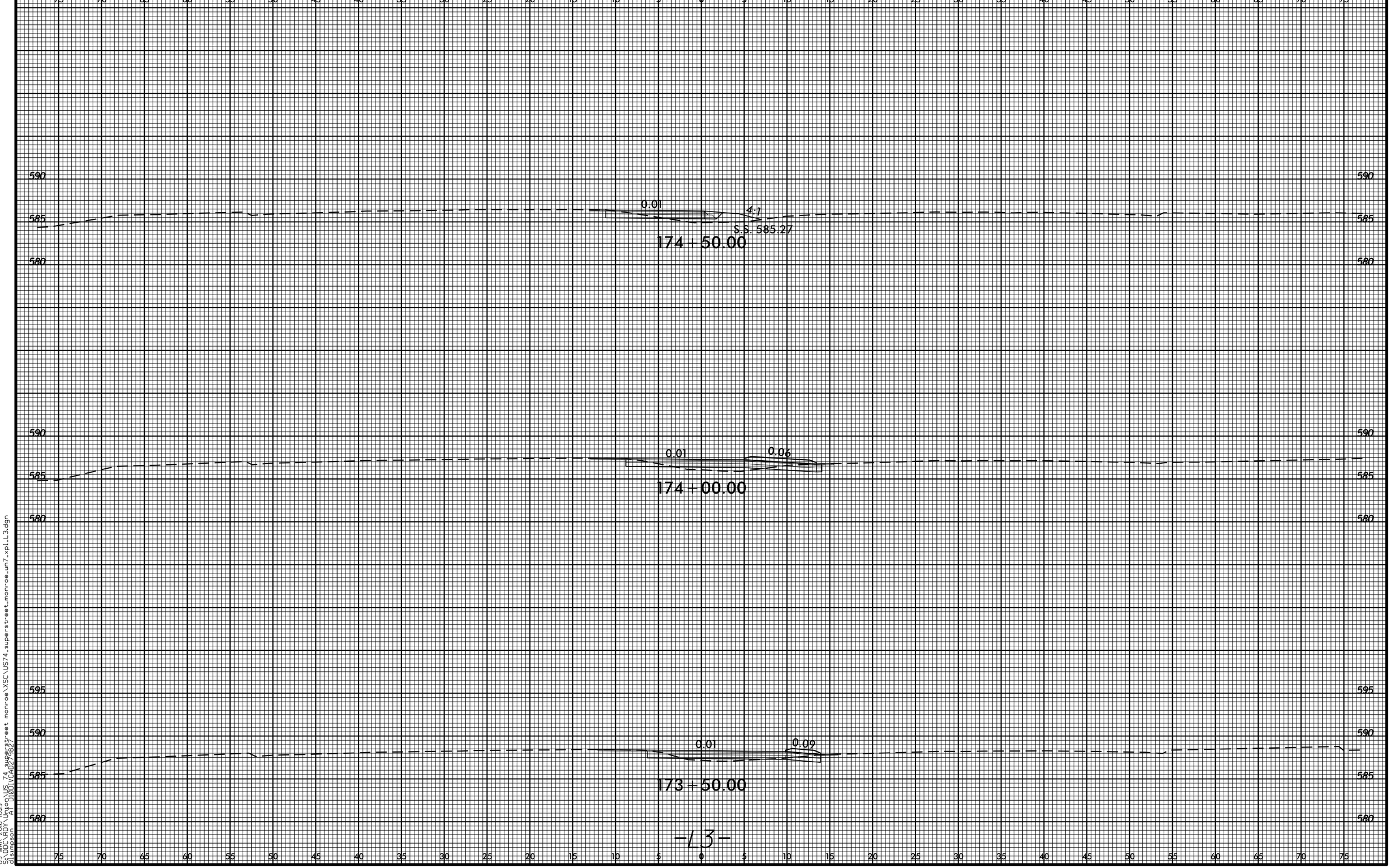

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8/23/99

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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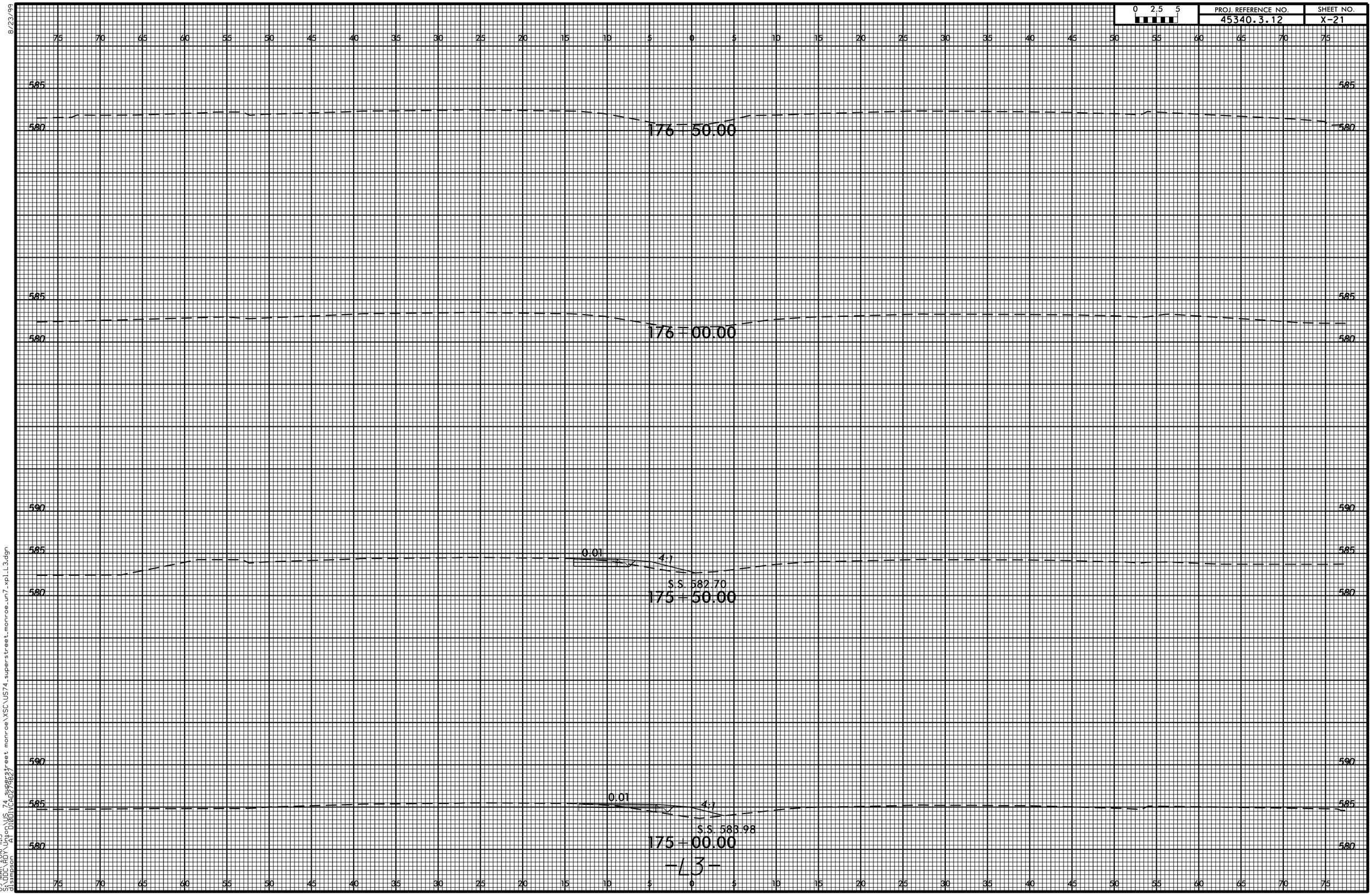

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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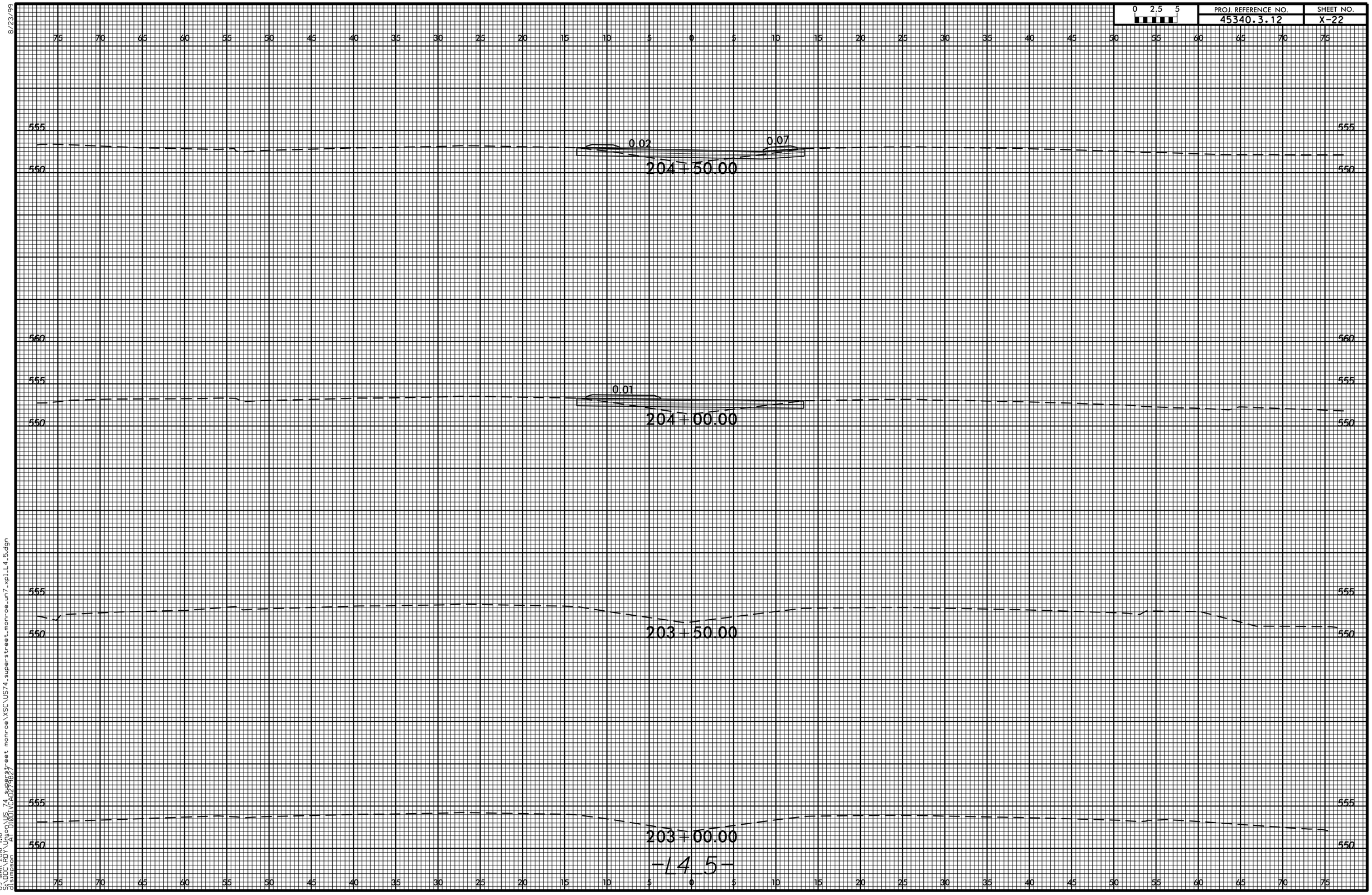

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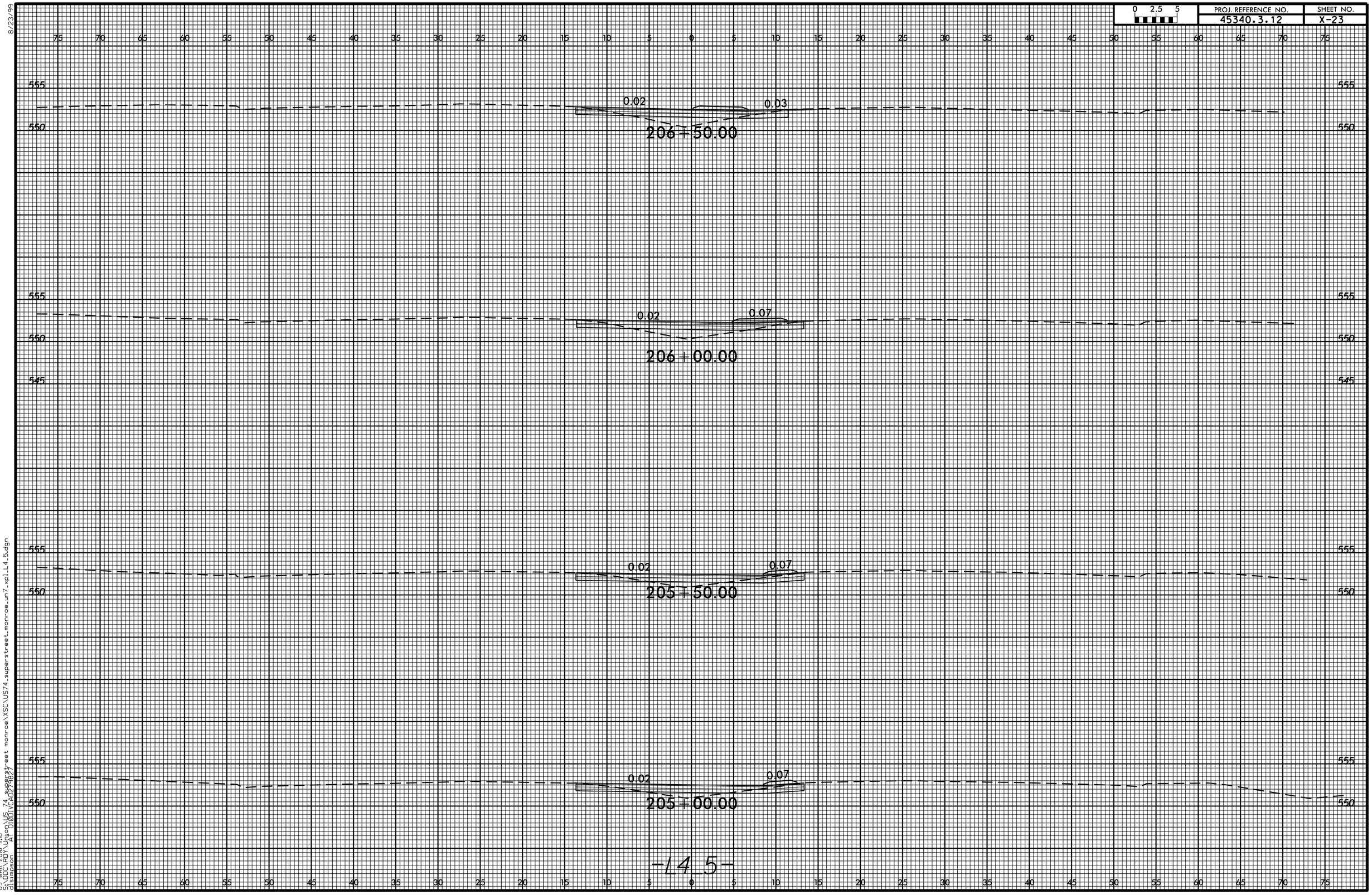

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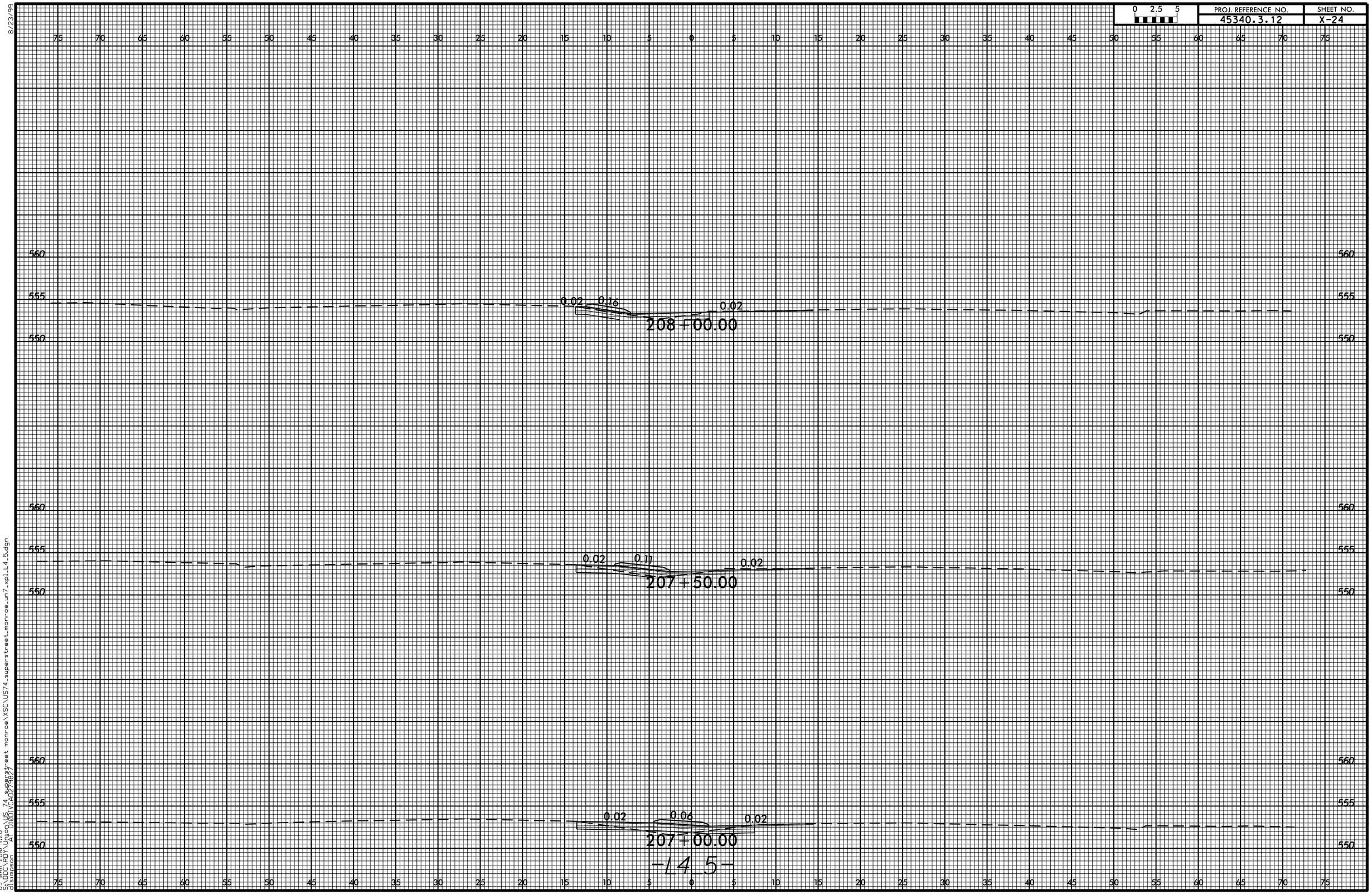

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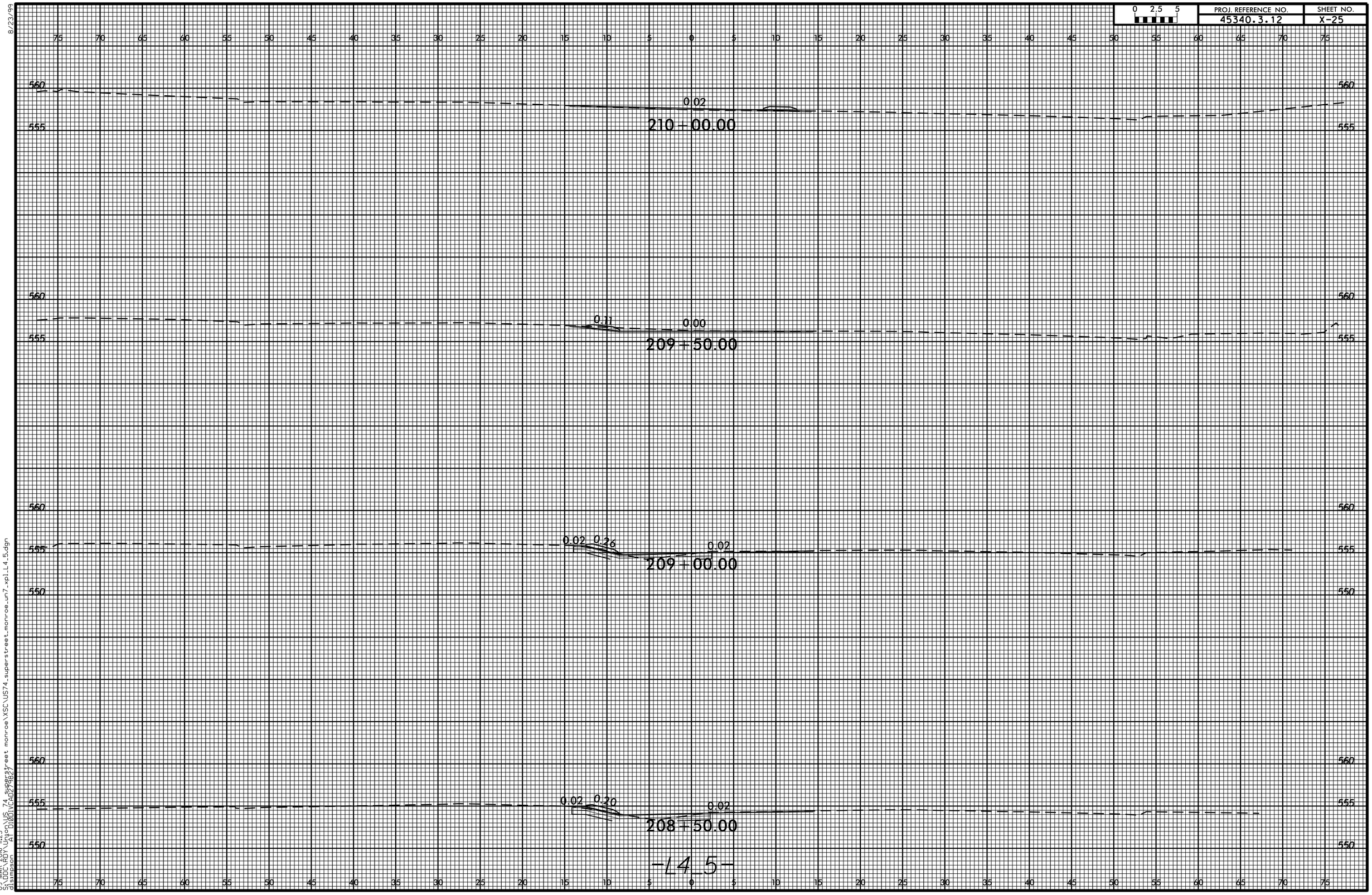

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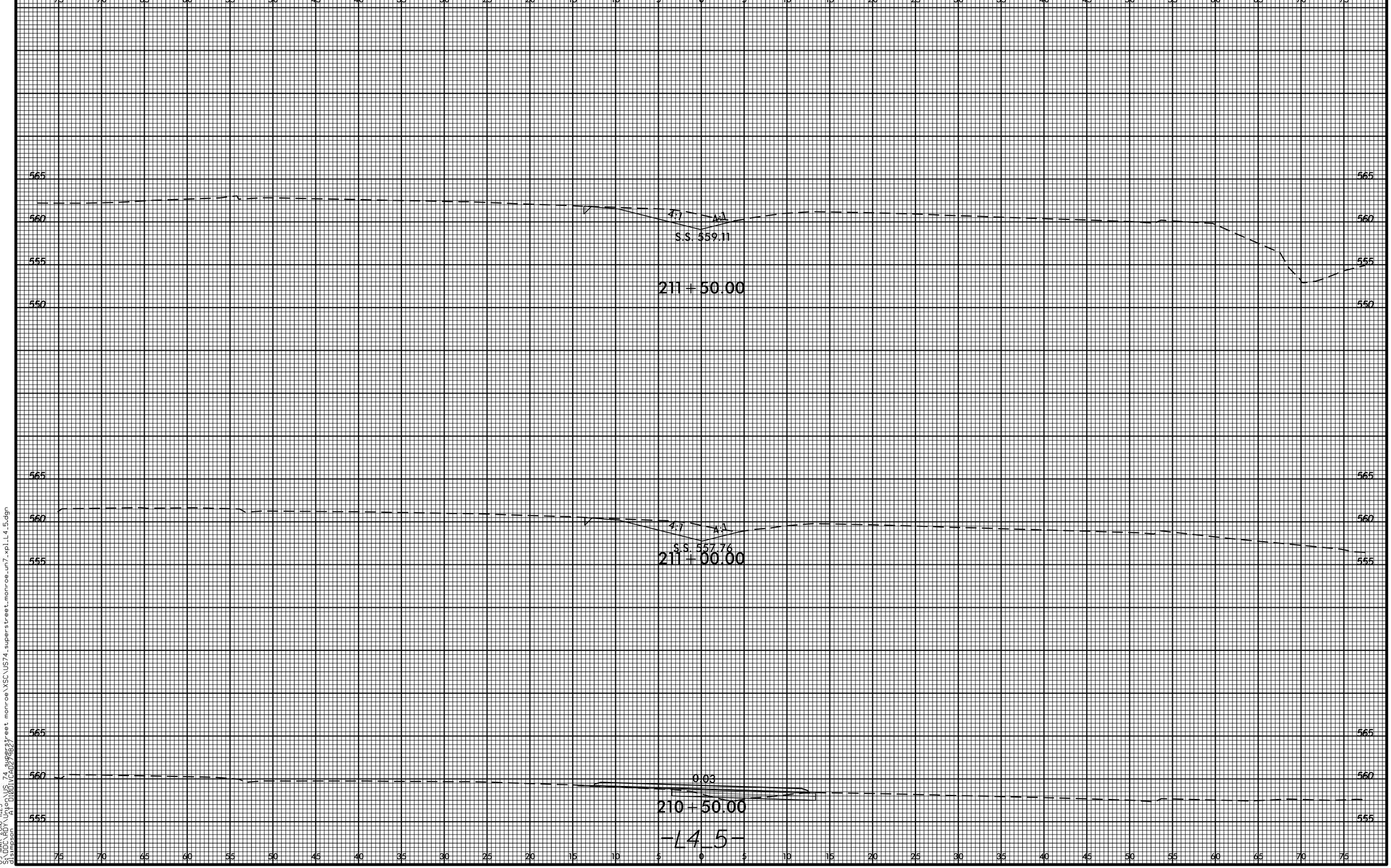

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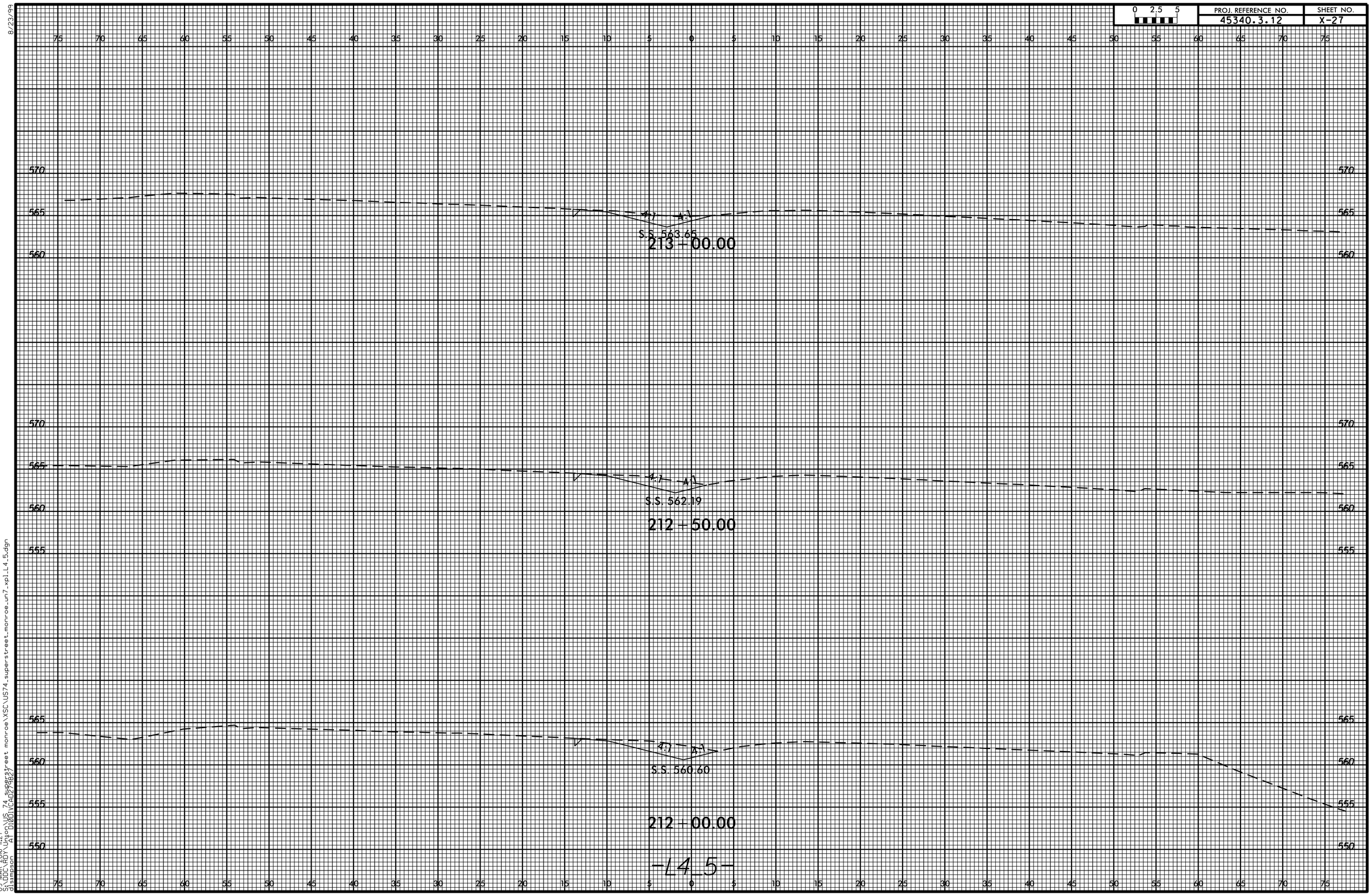

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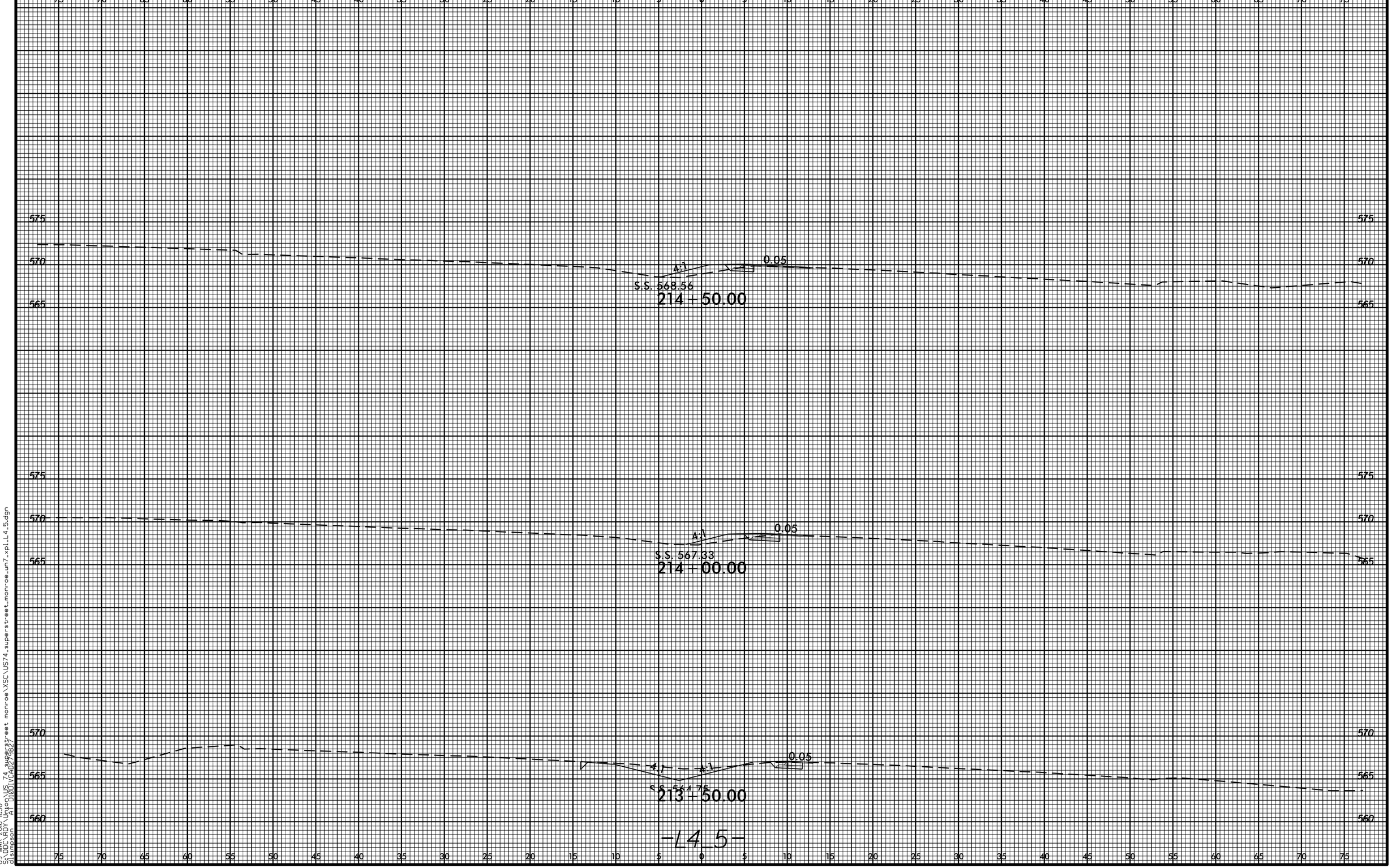

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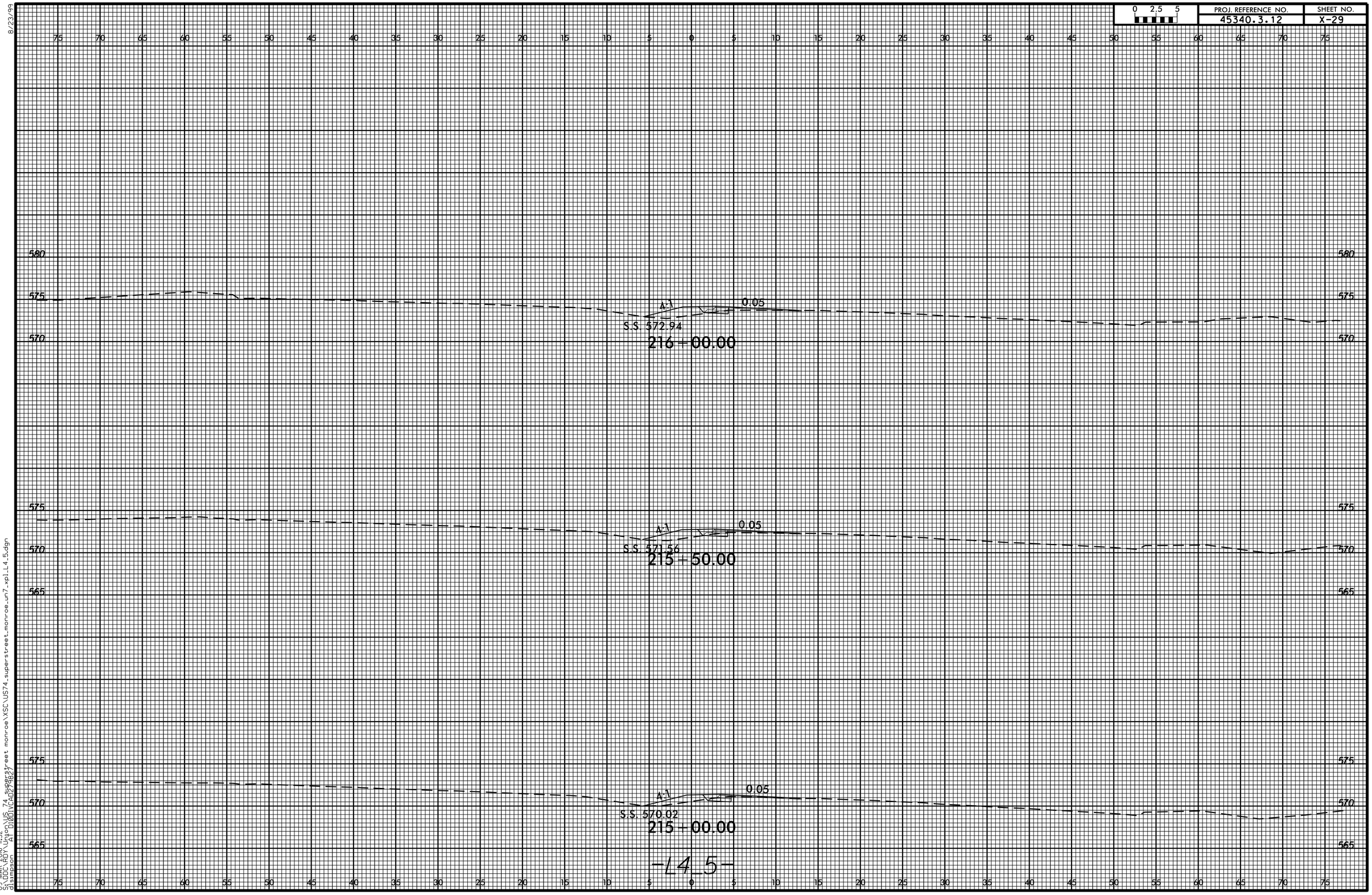

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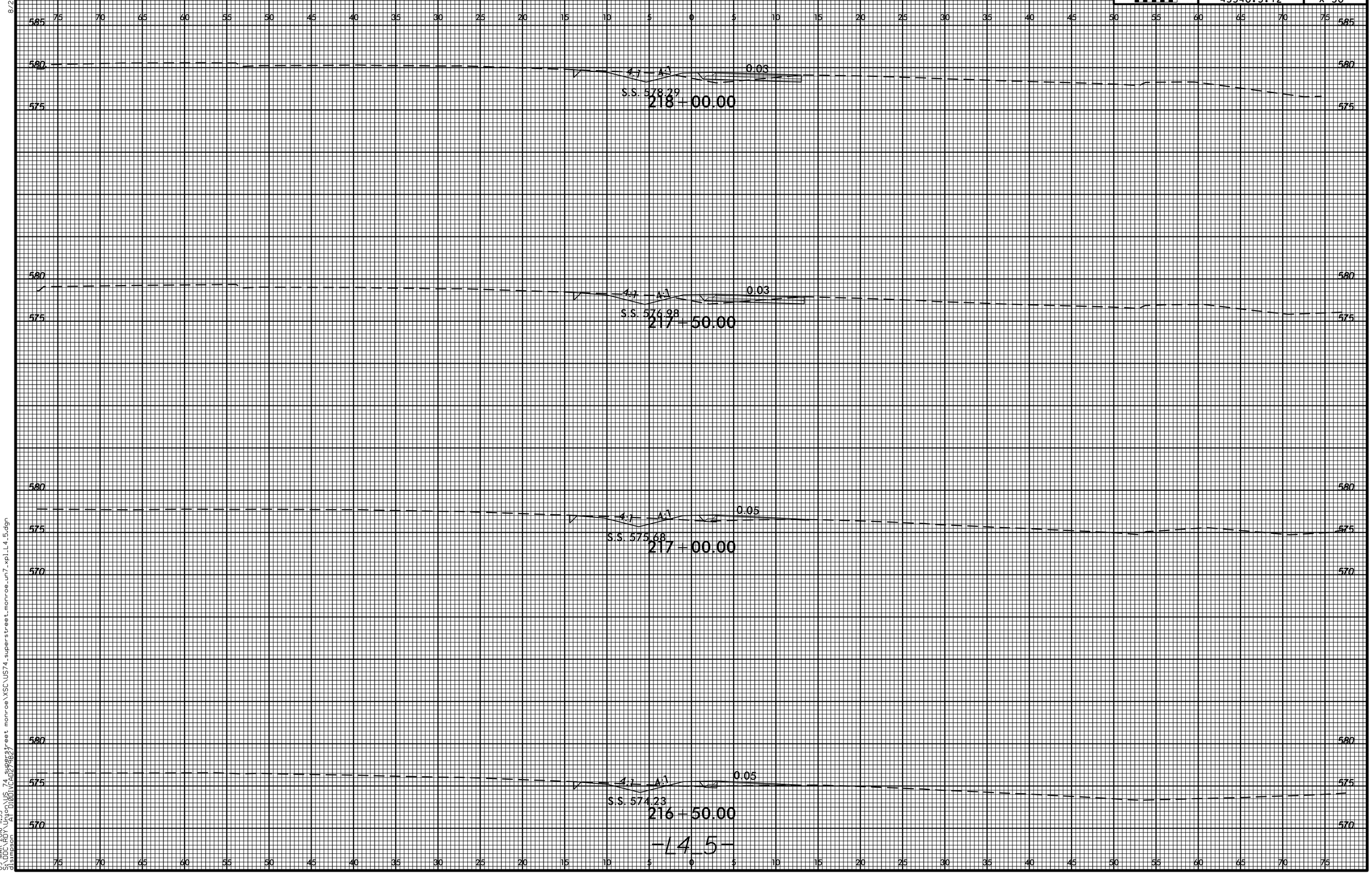

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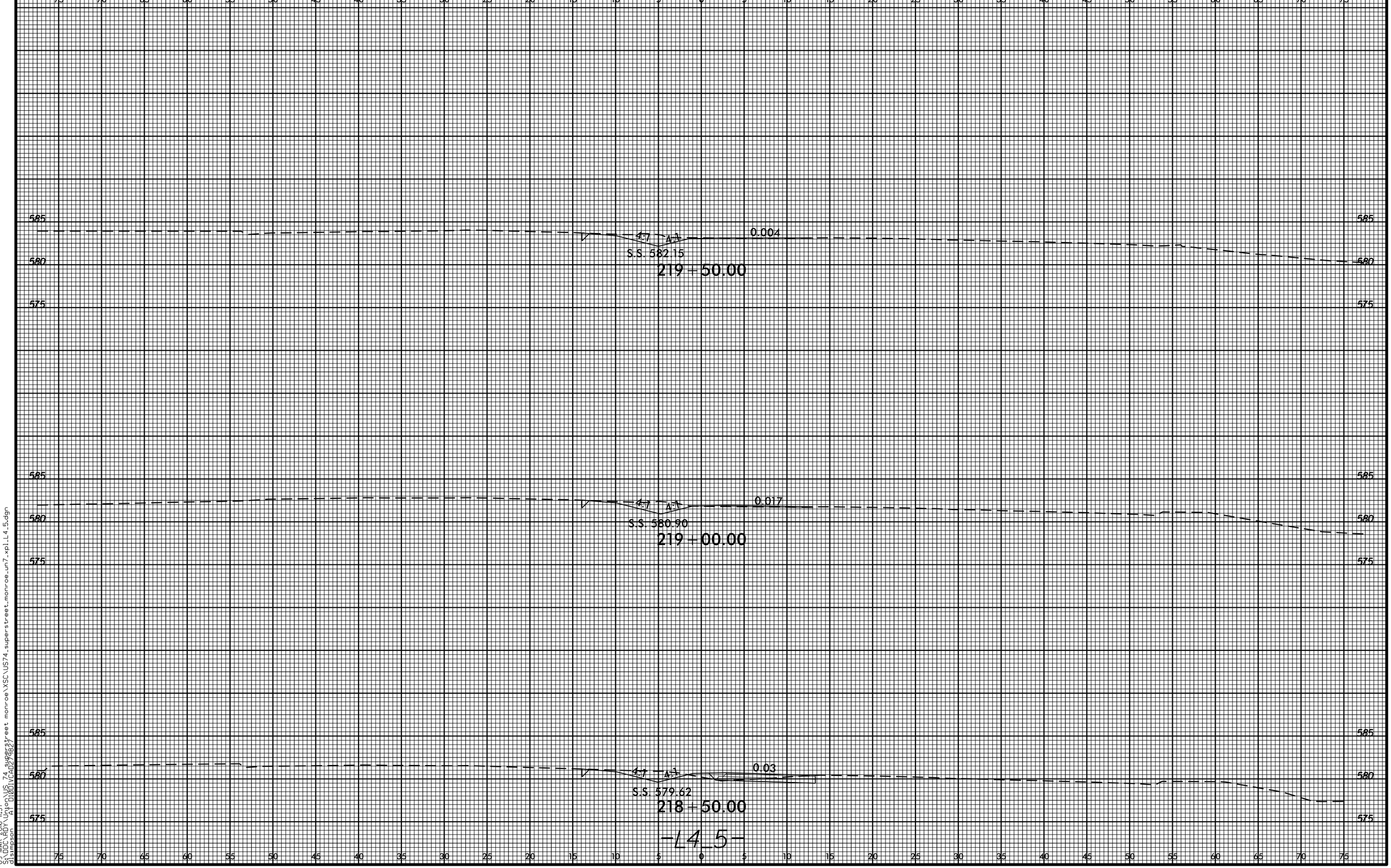

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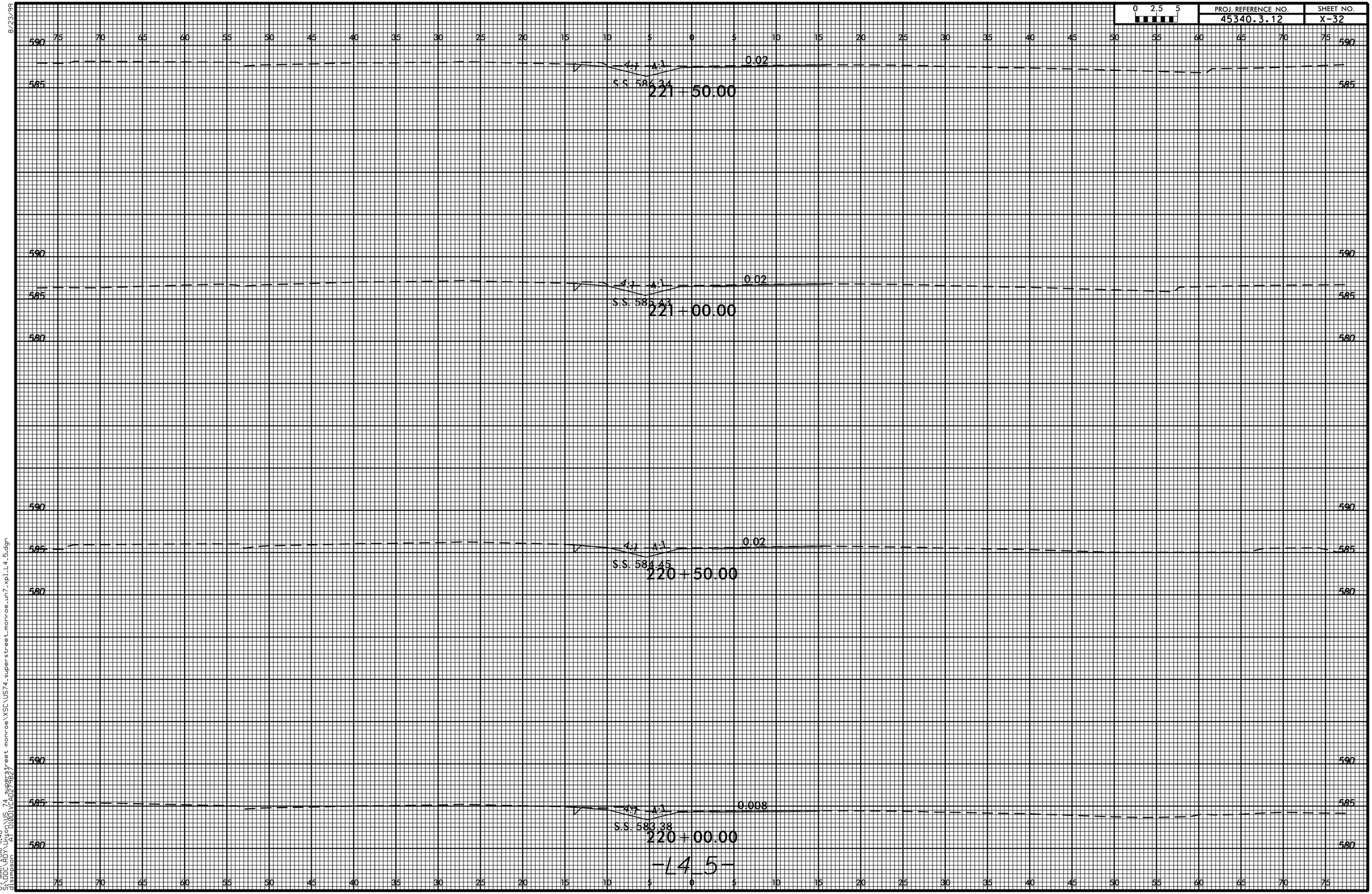

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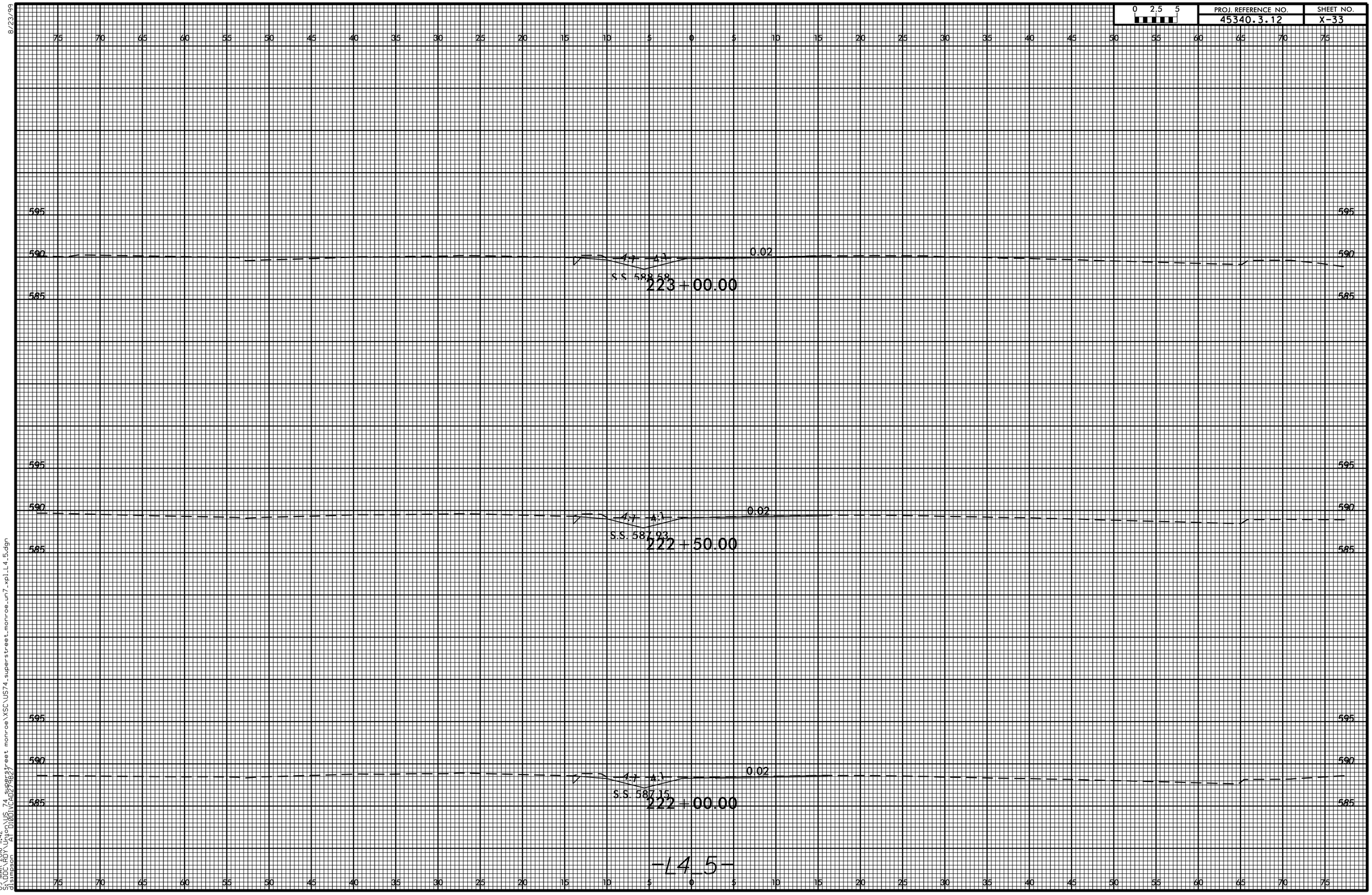

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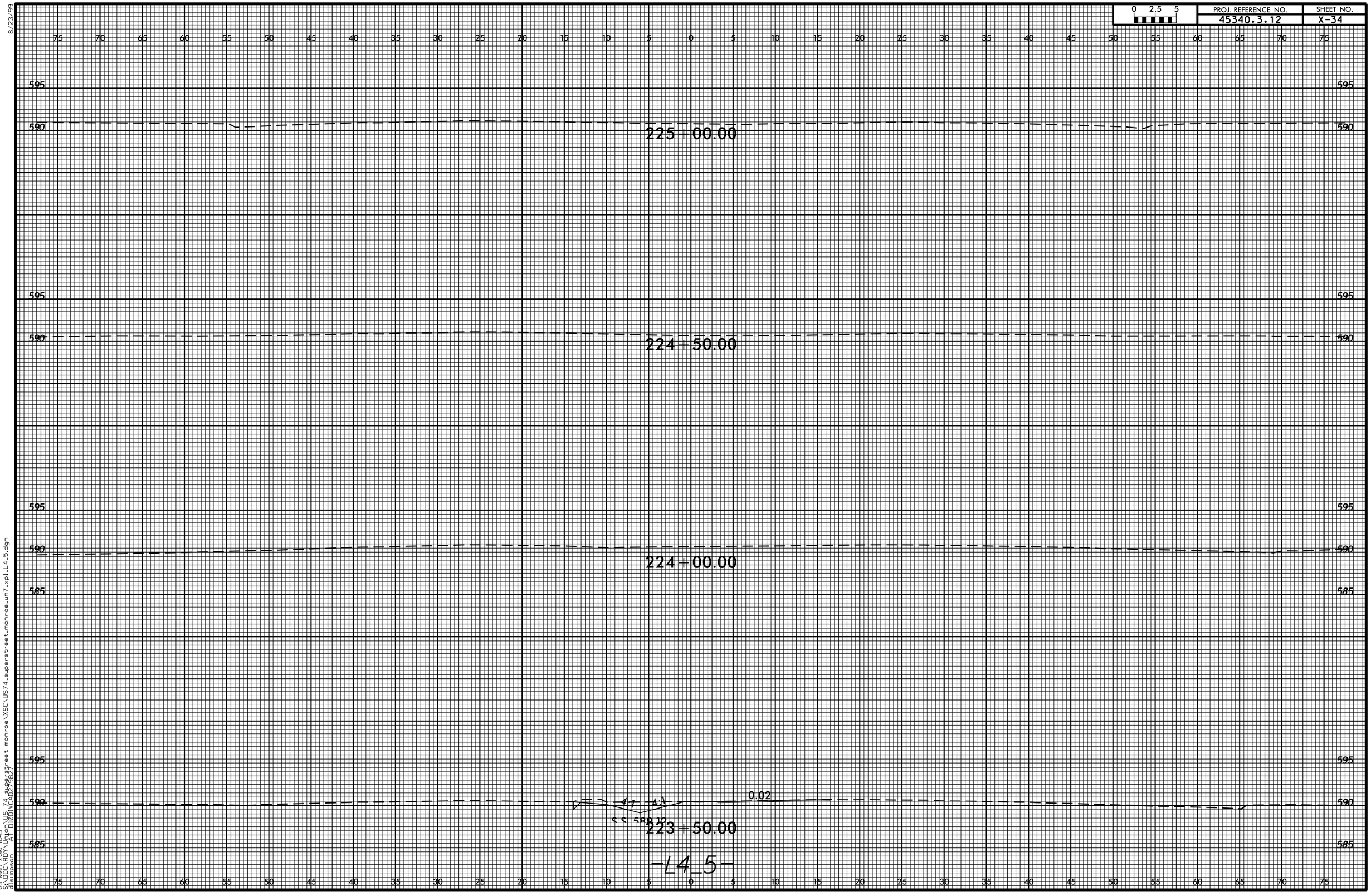

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