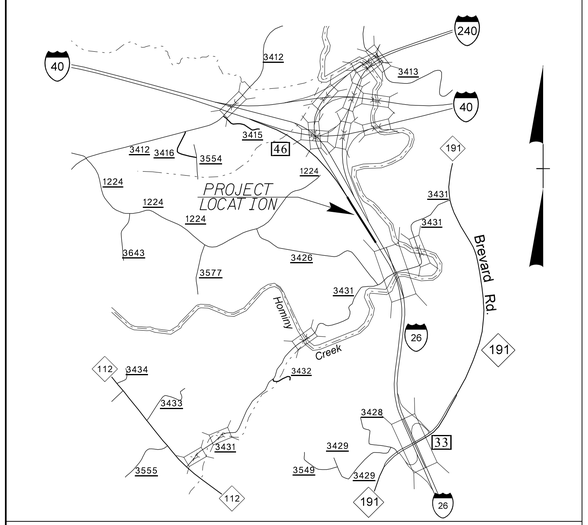
09/08/99

CONTRACT: DM00227 WBS: 44861.3.11 TIP: W-5713K

See Sheet 1-A For Index of Sheets



VICINTY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

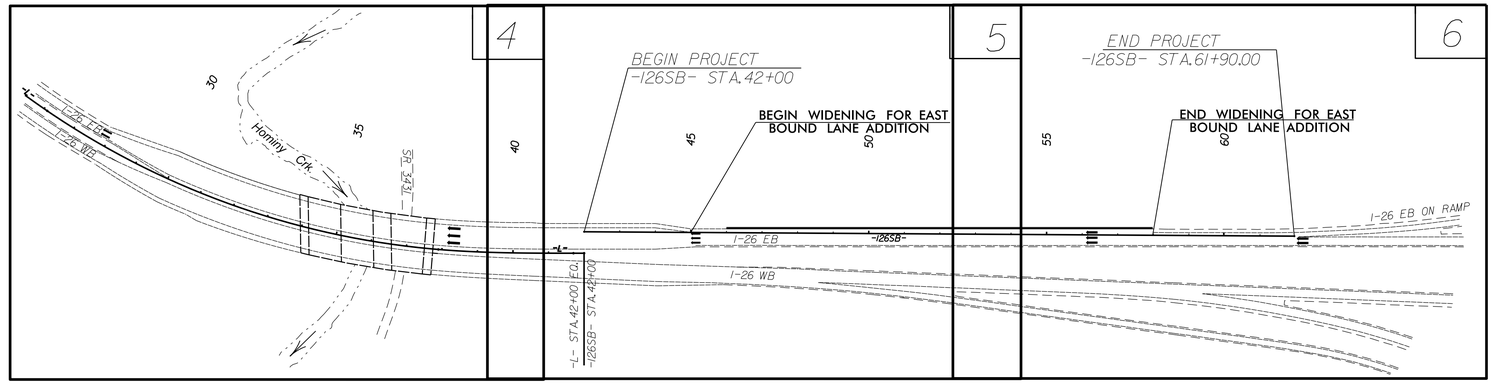
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5713K	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44861.1.11	HSIP-0026(011)	P.E.
44861.3.11	HSIP-0026(011)	CONST

LOCATION: I-26 EAST BOUND LANE AT INTERSECTION OF I-26 AND I-40

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND PAVEMENT MARKINGS

NC GRID NAD 83



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 =
K = ___ %
D = ___ %
T = ___ % *
V = ___ MPH
* TTST = __ DUAL __
FUNC CLASS =
_____
_____ TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT = 0.377 MILES

TOTAL LENGTH TIP PROJECT = 0.377 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
55 ORANGE STREET, ASHEVILLE, NC 28801

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
JULY 19, 2017

COLE HOOD, PE
PROJECT ENGINEER

BRENDAN W. MERITHEW, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
SIGNATURE: P.E.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	1-A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DURWOOD C. HOOD

DocuSigned by: Durwood C. Hood
E465E789441F401...

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1–A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1–B	CONVENTIONAL SYMBOLS
1–C	SURVEY CONTROL SHEET
2–2A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3–3A	SUMMARY OF DRAINAGE QUANTITIES SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, AND ASPHALT PAVEMENT REMOVAL SUMMARY
4 THRU 6	PLAN SHEET
7 THRU 8	PROFILE SHEET
TMP–1 THRU TMP–4	TRAFFIC MANAGEMENT PLANS
PMP–1 THRU PMP–4	PAVEMENT MARKING PLANS
EC–1 THRU EC–6	EROSION CONTROL PLANS
X–1 THRU X–51	CROSS–SECTIONS

LIST OF STANDARDS

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	
200.02	Method of Clearing – Method II
225.01	Guide for Grading Subgrade – Interstate and Freeway
225.05	Method of Obtaining Superelevation – Divided Highways
225.09	Guide for Shoulder and Ditch Transition at Grade Separations
240.01	Guide for Berm Ditch Construction
DIVISION 3 – PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 4 – MAJOR STRUCTURES	
DIVISION 5 – SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction – High Side of Superelevated Curve – Method I
560.02	Method of Shoulder Construction – High Side of Superelevated Curve – Method II
DIVISION 6 – ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
665.01	Asphalt Shoulders – Milled Rumble Strips
DIVISION 8 – INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin – 12" thru 54" Pipe
840.02	Concrete Catch Basin – 12" thru 54" Pipe
840.03	Frame, Grates and Hood – for Use on Standard Catch Basin
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
846.02	Drop Inlet Installation in Expressway Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
850.10	Guide for Berm Drainage Outlet – 15" and 18" Pipe
854.02	Double Faced Concrete Barrier – Types 'T', 'T1' and 'T2'
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail – B–77 and B–83 Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets

GENERAL NOTES

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.

THE REMOVAL OF THE EXISTING FOUNDATIONS FOR THE STREET LIGHTS AND SIGNS WILL BE INCIDENTAL TO THE GRADING ON THIS PROJECT.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 AND NO. 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

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

BERM DITCHES:

BERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 240.01 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

UNDERDRAINS:

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON TE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE Progress Energy – Power
AT&T – Telephone, City of Asheville – Water, Metropolitan Sewerage District (MSD) – Sewer
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

SIGNS:

THE RELOCATION OF THE SIGNS AND STREET LIGHTS WILL BE ACCOMPLISHED BY OTHERS.

MAINTENANCE OF THE PROJECT:

THE MAINTENANCE OF THE PROJECT INCLUDING THE ROADWAY AND INSIDE SHOULDER WITHIN THE PROJECT LIMITS WILL BE THE RESPONSEBILITY OF THE CONTRACTOR FOR THE DURATION OF THE PROJECT.

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04/06/15

PROJECT REFERENCE NO.	SHEET NO.
W-5713K	1-B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

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

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

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

RIGHT OF WAY:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

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

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W-5713K	1-C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DARWOOD C. HOOD

DocuSigned by: Darwood C Hood
E465E789441F401...

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE NAD83 STATE PLANE COORDINATES FOR THE NCDOT GPS MONUMENT "CALVARY"WITH A NORTHING OF 684834.0870, EASTING OF 934095.9080 THE AVERAGE COMBINED FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 0.9997841.ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES. THE VERTICAL DATUMIS BASED ON NCDOT MONUMENT "GPS I-4401-6" (ELEV. 2073.54') (NAVD 88).

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEGINNING CHAIN –I26SB– DESCRIPTION

BL–7 N 673962.0854 E 927352.3417 ELE.2063.67

Course from 7 to 8 N 21^ 09' 48.55" E Dist 1046.92

BL–8 N 674938.3957 E 926974.3715 ELE.2039.72

Ending chain BL description

CENTERLINE COORDINATE LIST

PROJECT TIP NO. : W–5713K
FILE LOCATION /NAME :
DATE :

DISCLAIMER: THIS COORDINATE LIST IS PROVIDED FOR TH INTERESTED CONTRACTORS AND IS INTENDED FOR USE DURING THE PROJECT BIDDING PROCESS ONLY. COORDINATES ARE LOCALIZED TO THIS PARTICULAR PROJECT AND ANY CONVERSION TO STATE GRID COORDINATES OR OTHER FORMATS WILL BE THE "RESPONSEBILITY OF THE RECIPIENT. WHILE EVERY EFFORT HAS BEEN MADE TO PROVIDE UP–TO–DATE, ACCURATE" "INFORMATION, NCDOT MAKES NO EXPRESS GUARANTEE AS TO THE VALIDITY OR POTENTIAL FOR REVISION OF THIS" INFORMATION PRIOR TO PROJECT LETTING.

POINT #	CHAIN	STATION	NORTHING (Y)	EASTING (X)
501	126SB	Sta 42+00.00	N 673,312.6215	E 927,705.8816
502	126SB	Sta 42+50.00	N 673,355.2199	E 927,679.7019
503	126SB	Sta 43+00.00	N 673,397.8183	E 927,653.5222
504	126SB	Sta 43+50.00	N 673,440.4166	E 927,627.3425
505	126SB	Sta 44+00.00	N 673,483.0150	E 927,601.1628
506	126SB	Sta 44+50.00	N 673,525.6134	E 927,574.9831
507	126SB	Sta 45+00.00	N 673,568.2118	E 927,548.8034
508	126SB	Sta 45+50.00	N 673,610.8102	E 927,522.6237
509	126SB	Sta 46+00.00	N 673,653.4086	E 927,496.4439
510	126SB	Sta 46+50.00	N 673,696.0070	E 927,470.2642
511	126SB	Sta 47+00.00	N 673,738.6054	E 927,444.0845
512	126SB	Sta 47+50.00	N 673,781.2037	E 927,417.9048
513	126SB	Sta 48+00.00	N 673,823.8021	E 927,391.7251
514	126SB	Sta 48+50.00	N 673,866.4005	E 927,365.5454
515	126SB	Sta 49+00.00	N 673,908.9989	E 927,339.3657
516	126SB	Sta 49+50.00	N 673,951.5973	E 927,313.1860
517	126SB	Sta 50+00.00	N 673,994.1957	E 927,287.0062
518	126SB	Sta 50+50.00	N 674,036.7941	E 927,260.8265
519	126SB	Sta 51+00.00	N 674,079.3925	E 927,234.6468
520	126SB	Sta 51+50.00	N 674,121.9908	E 927,208.4671
521	126SB	Sta 52+00.00	N 674,164.5892	E 927,182.2874
522	126SB	Sta 52+50.00	N 674,207.1876	E 927,156.1077
523	126SB	Sta 53+00.00	N 674,249.7860	E 927,129.9280
524	126SB	Sta 53+50.00	N 674,292.3844	E 927,103.7483
525	126SB	Sta 54+00.00	N 674,334.9828	E 927,077.5685
526	126SB	Sta 54+50.00	N 674,377.5812	E 927,051.3888
527	126SB	Sta 55+00.00	N 674,420.1796	E 927,025.2091
528	126SB	Sta 55+50.00	N 674,462.7779	E 926,999.0294
529	126SB	Sta 56+00.00	N 674,505.3763	E 926,972.8497
530	126SB	Sta 56+50.00	N 674,547.9747	E 926,946.6700
531	126SB	Sta 57+00.00	N 674,590.5731	E 926,920.4903
532	126SB	Sta 57+50.00	N 674,633.1715	E 926,894.3106
533	126SB	Sta 58+00.00	N 674,675.7699	E 926,868.1308
534	126SB	Sta 58+50.00	N 674,718.3683	E 926,841.9511
535	126SB	Sta 59+00.00	N 674,760.9667	E 926,815.7714
536	126SB	Sta 59+50.00	N 674,803.5651	E 926,789.5917
537	126SB	Sta 60+00.00	N 674,846.1634	E 926,763.4120
538	126SB	Sta 60+50.00	N 674,888.7618	E 926,737.2323
539	126SB	Sta 61+00.00	N 674,931.3602	E 926,711.0526
540	126SB	Sta 61+50.00	N 674,973.9586	E 926,684.8729

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DARWOOD C. HOOD

DocuSigned by: Darwood C. Hood
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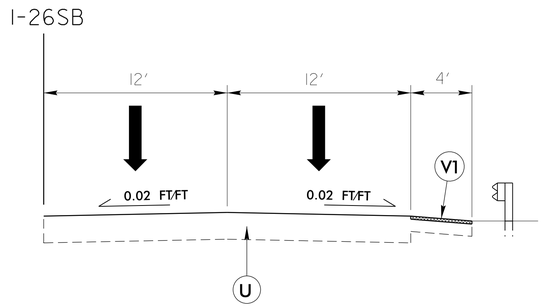
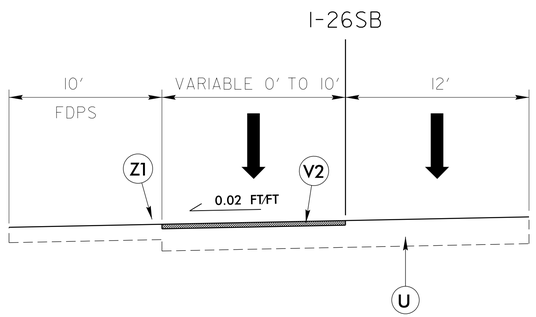


TYPICAL SECTION NO. 1

FROM STA. 40+00 -L- TO STA. 62+00 -L-



TYPICAL SECTION NO. 2

FROM STA. 53+95 -L- TO STA. 58+07 -L-

PAVEMENT SCHEDULE

B1	PROP. APPROX. 0.5" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0D, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 14" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
R2	4' EXPRESSWAY GUTTER
T	PROPOSED SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT, 2" DEPTH
V2	VARIABLE DEPTH MILLING
Z1	MILLED RUMBLE STRIPS

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	2A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DURWOOD C. HOOD

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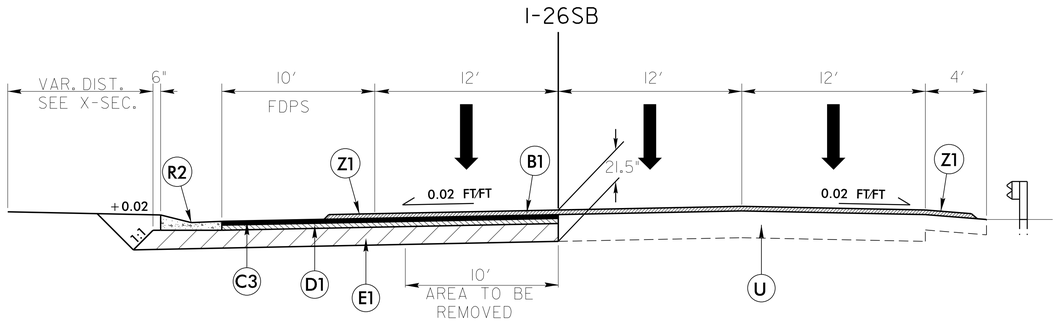
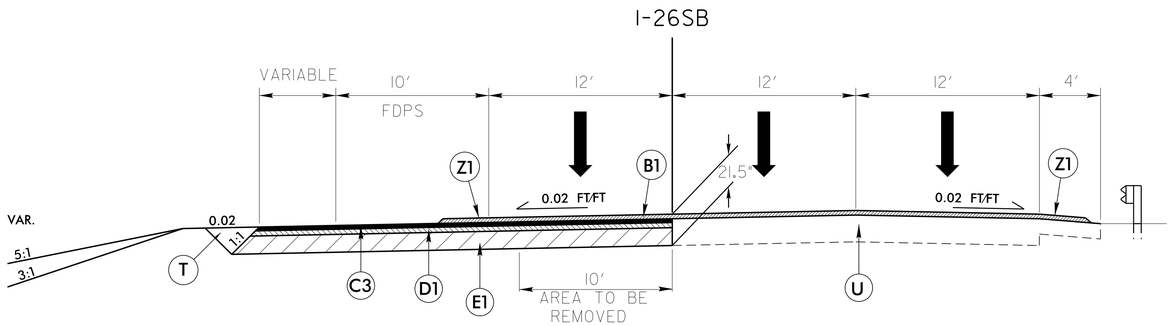


TYPICAL SECTION NO. 3

FROM STA. 46+00 -L- TO STA. 58+00 -L-



TYPICAL SECTION NO. 4

FROM STA. 45+00 -L- TO STA. 46+00 -L-

NOTES:
THE OPEN GRADE FRICTION COURSE EXTENDS 3' ONTO BOTH SHOULDERS.

PAVEMENT SCHEDULE

B1	PROP. APPROX. 0.5" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0D, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 14" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
R2	4' EXPRESSWAY GUTTER
T	PROPOSED SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT, 2" DEPTH
V2	VARIABLE DEPTH MILLING
Z1	MILLED RUMBLE STRIPS

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	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".

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

| STATION | LOCATION (LT,RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE 12" | 15" | 18" | 24" | 36" | 42" | 48" | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE (CLASS IV) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | *** 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) R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0') | 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 | CONCRETE TRANSITIONAL SECTION CATCH BASIN | DROP INLET | FRAME WITH GRATE STD. 846.02 | D.I. INSTALLATION IN SHLDR. BERM GUTTER STD. 846.04 | | | | | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	EMBT+%	BORROW	WASTE	UNDERCUT
SUMMARY 45+00 – 58+00					
LEFT SIDE OF –I26SB–	3383	325		3058	
SUMMARIES TOTAL	3383	325		3058	
LOSS DUE TO CLEARING AND GRUBBING	1616				
PROJECT GRAND TOTAL	1767				

MILLING OF EXISTING ASPHALT

LOCATION	LT /RT	DEPTH	SQUARE YARDS
53+29.30 TO 58+07.00 –I26SB–	LT	3"	410.18
40+00 TO 62+00 –I26SB–	RT	2"	977.77
	TOTAL		1387.95
	SAY		1405.00

REMOVAL OF EXISTING ASPHALT PAVEMENT

LOCATION	LT /RT	SQUARE YARDS
45+00 TO 58+07 –I26SB–	LT	1506.89
	TOTAL	1506.89
	SAY	1525.00

PIPE REMOVAL

LOCATION	LT /RT	PIPE REMOVAL LENGTH (FEET)
44+78 –I26SB–	LT	24'
46+03 –I26SB–	LT	34'
53+21 –I26SB–	LT	7'
44+98 to 58+09 –I26SB–	LT	1311'
PROJECT TOTAL		1376'

SHOULDER DRAIN OUTLET PIPE

LOCATION	LT /RT	PIPE SIZE /TYPE	PIPE LENGTH (FEET)
44+98 –I26SB–	LT	4" HDPE	25'
58+09 –I26SB–	LT	4" HDPE	30'
PROJECT TOTAL			55'

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DURWOOD C. HOOD

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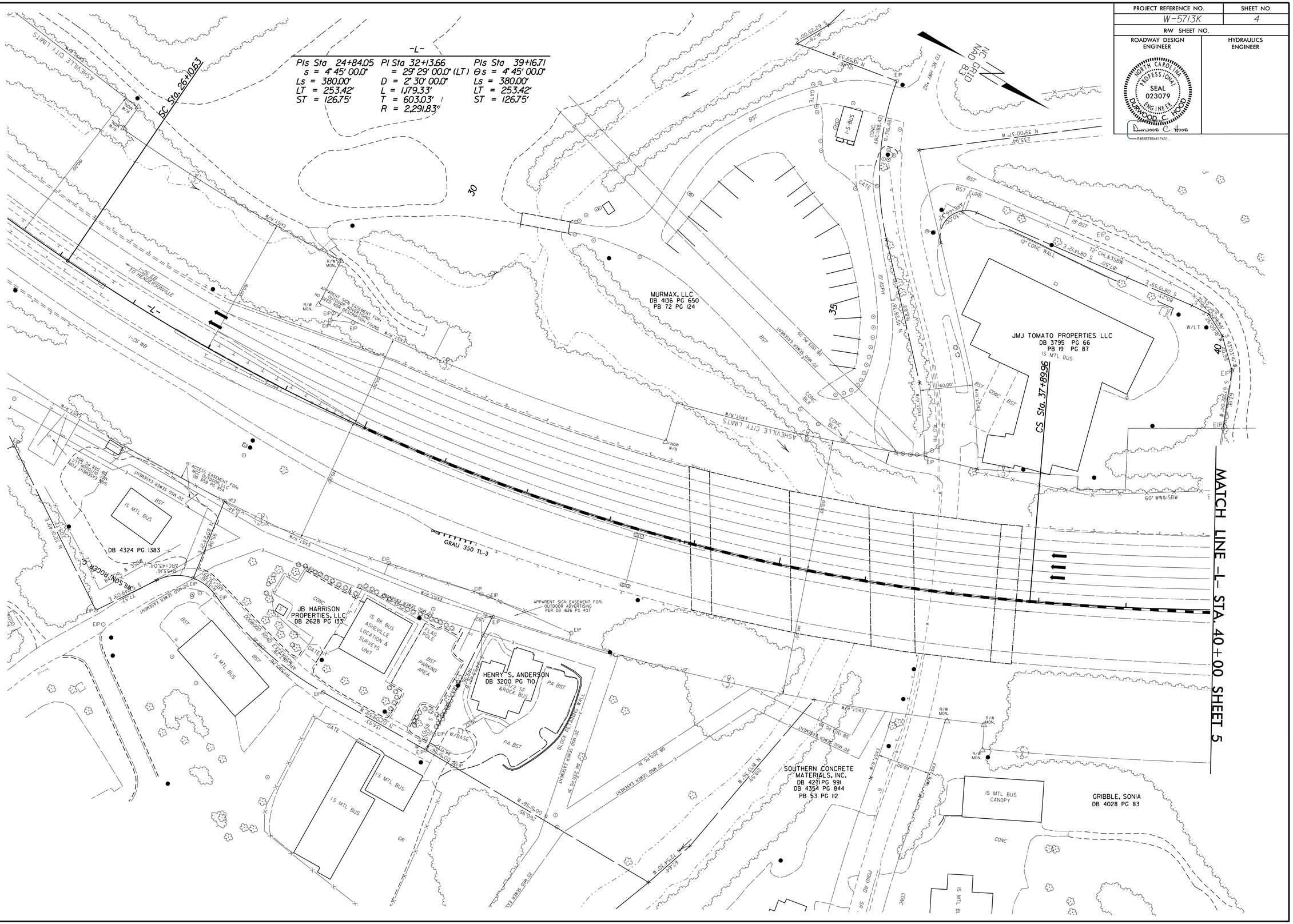

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DURWOOD C. HOOD

Durwood C. Hood

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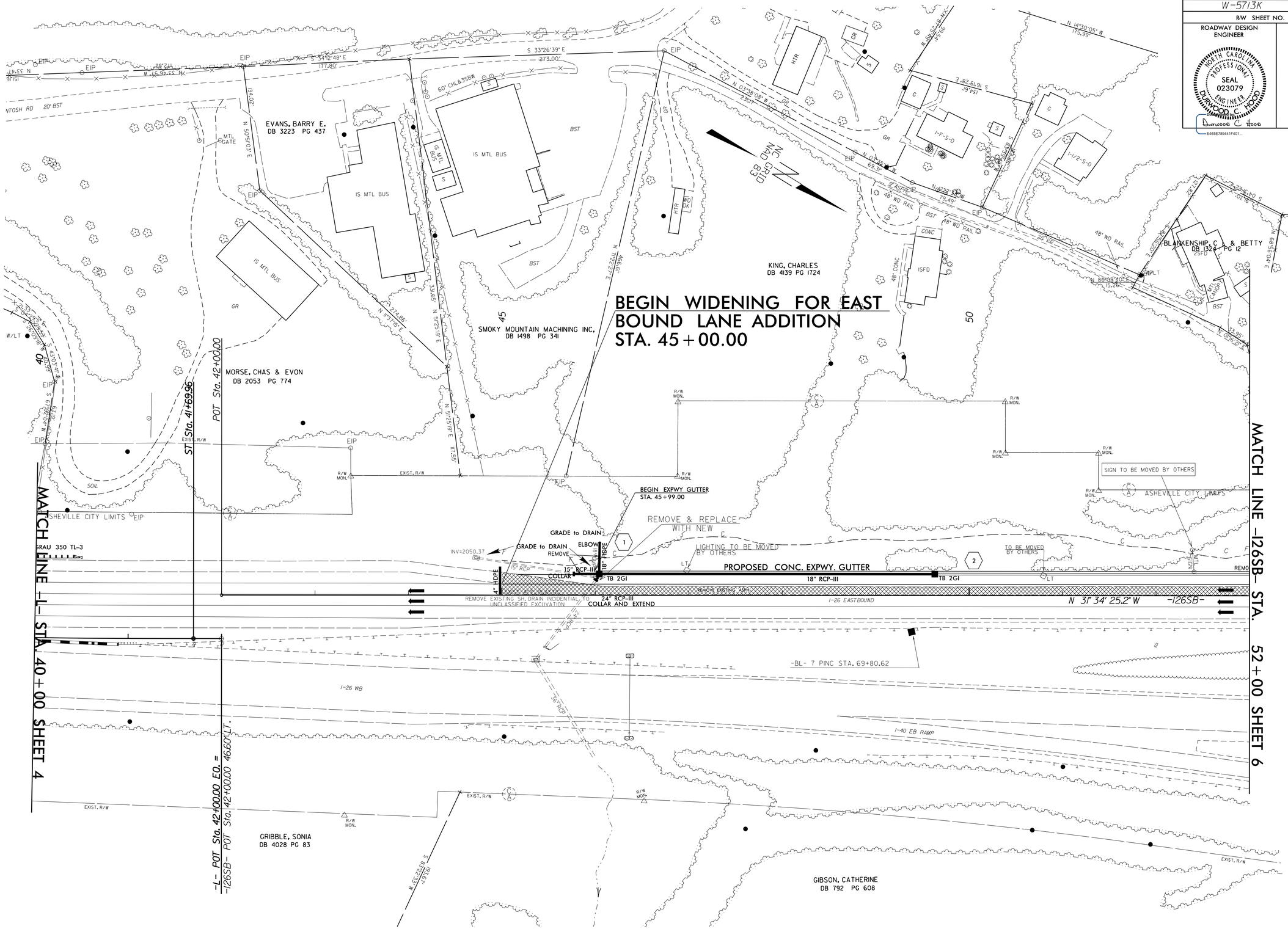

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DURWOOD C. HOOD

DURWOOD C. HOOD
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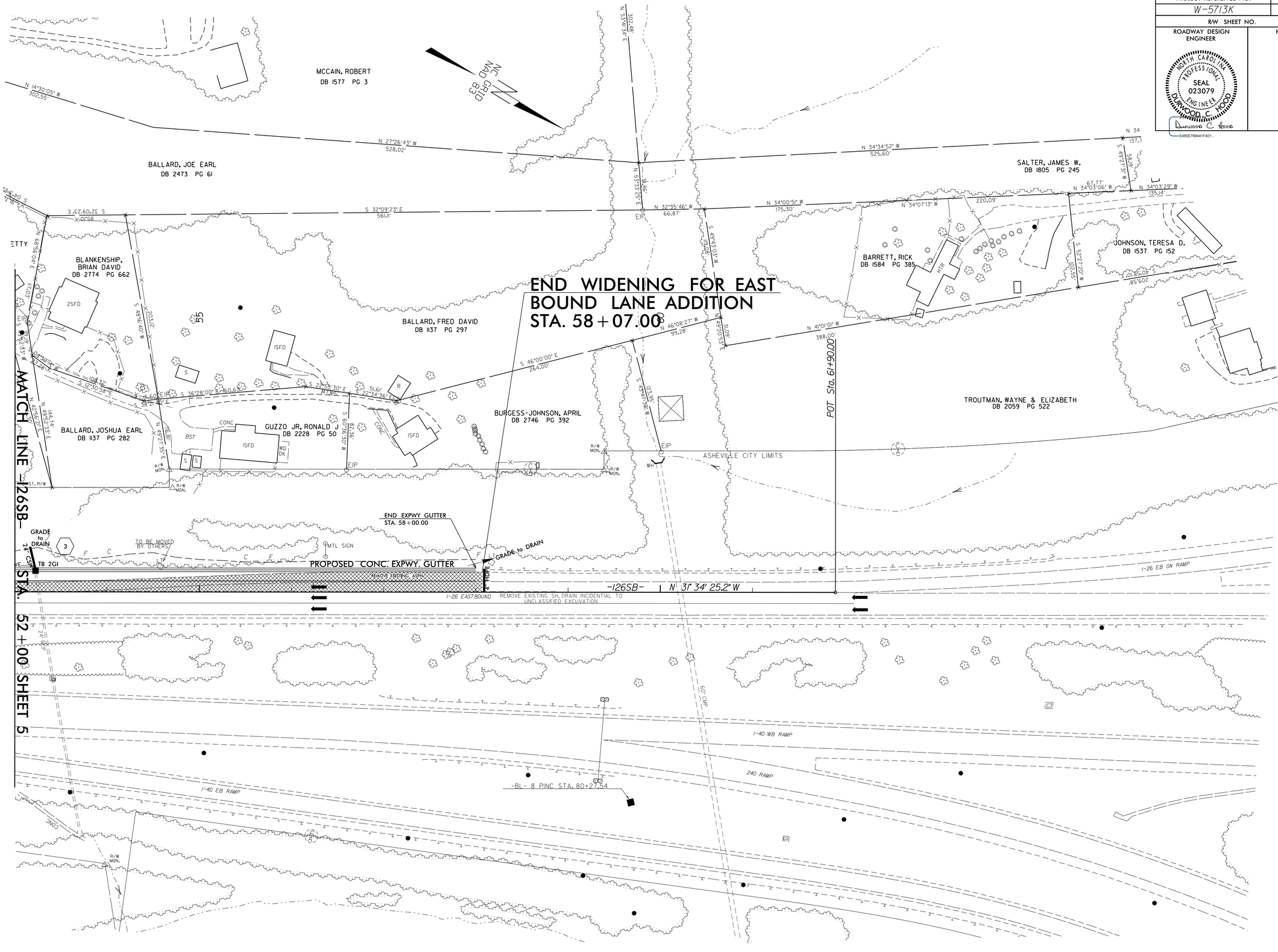

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DURWOOD C. HOOD

Durwood C. Hood

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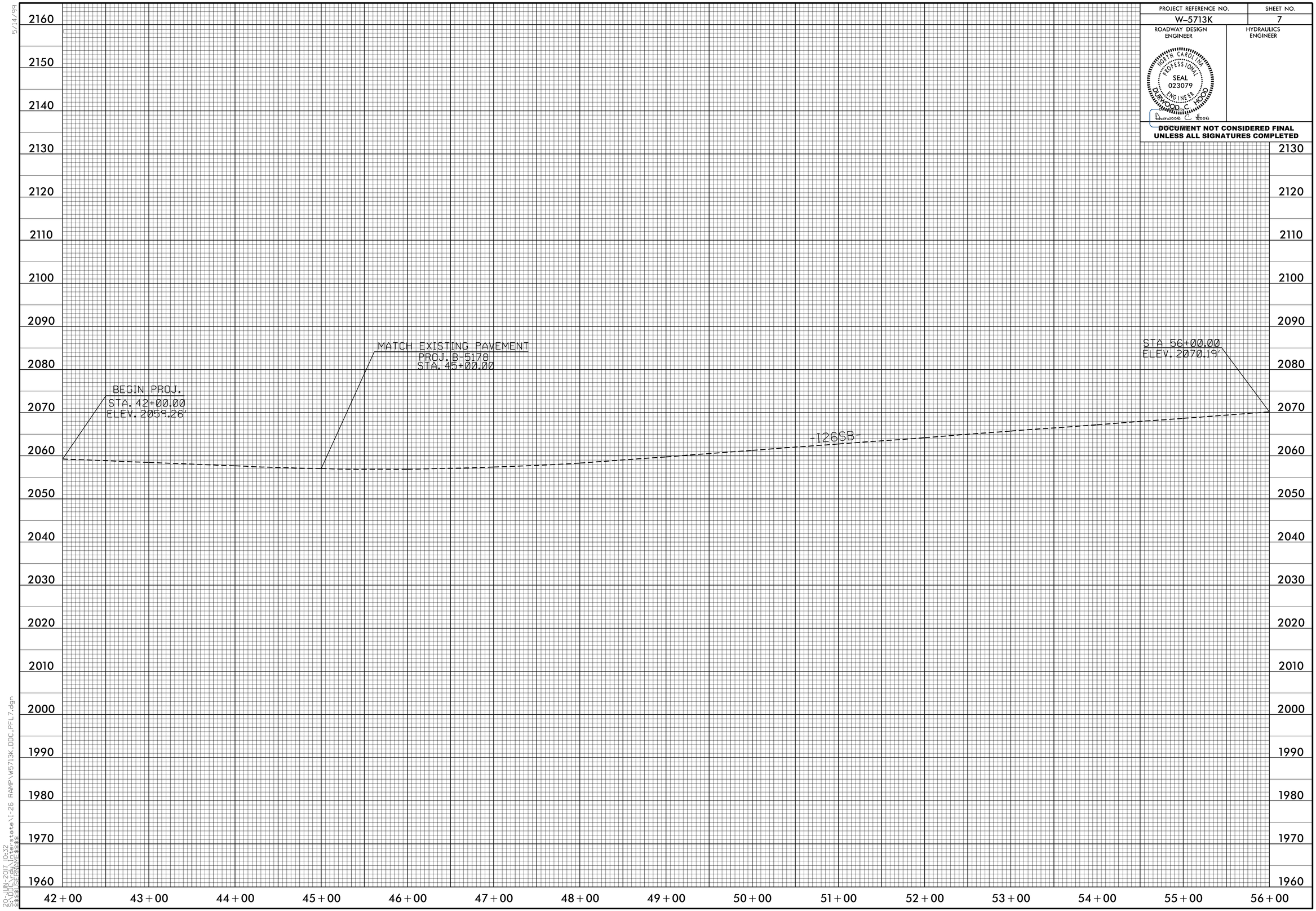

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PROJECT REFERENCE NO.	SHEET NO.
W-5713K	8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 023079 ENGINEER DURWOOD C. HOOD

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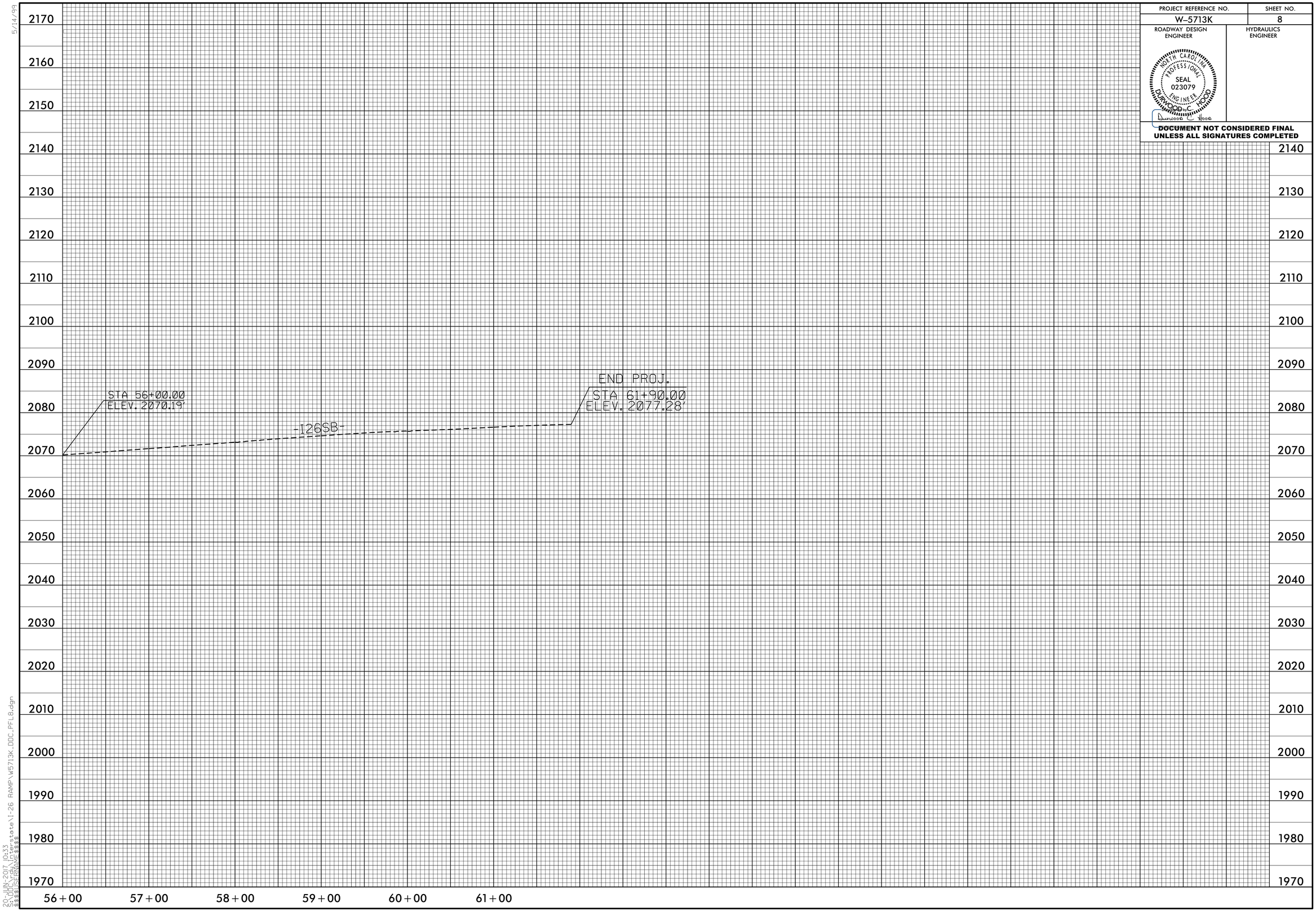

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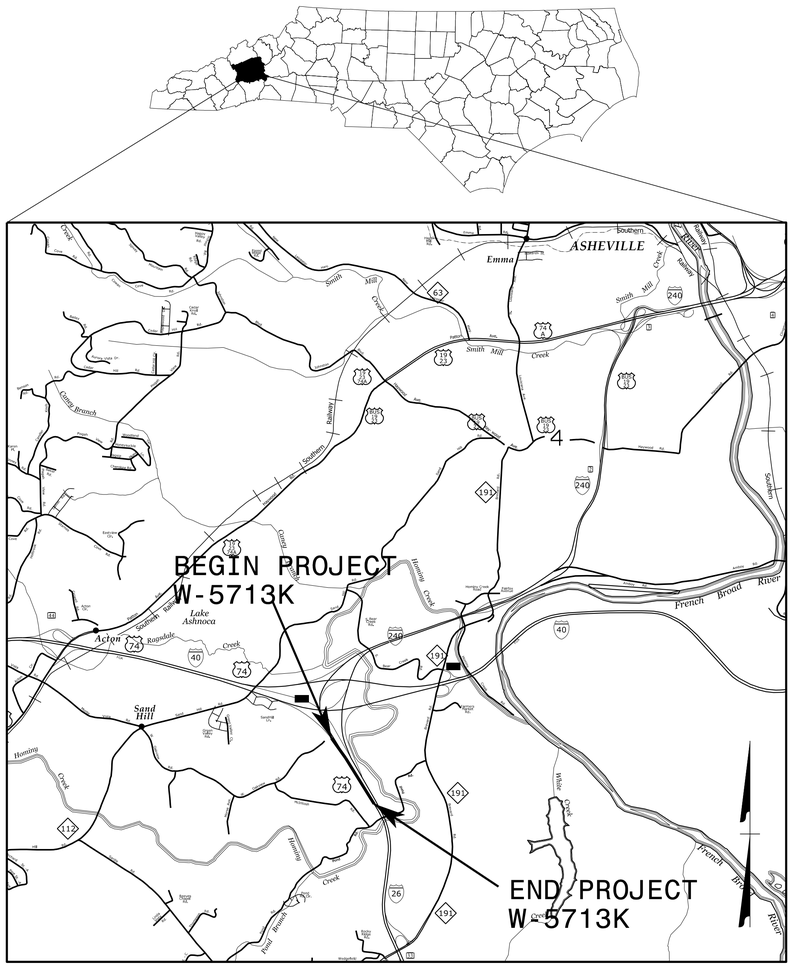
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BUNCOMBE COUNTY



I-26 EB LANE ADDITION - FROM I-40 EB ON RAMP TO SR 3431 (POND ROAD)

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	GENERAL NOTES
TMP-2	PHASING
TMP-3	TRAFFIC CONTROL DETAIL I
TMP-4	TRAFFIC CONTROL DETAIL II

SHEET NO.
TMP-1

W-5713K

TIP PROJECT:

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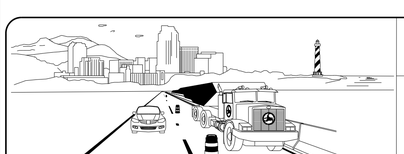

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 814-5000 FAX: (919) 771-2745

J. E. HUMMER, Phd, PE — STATE TRAFFIC MANAGEMENT ENGINEER
D. A. PARKER, PE — TRAFFIC CONTROL PROJECT ENGINEER
R. M. GARRETT — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
K. E. DAIS — TRAFFIC CONTROL DESIGN ENGINEER

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

APPROVED: DocuSigned by: Don A. Parker 4DD4828626184 1D...

DATE: 5/12/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043251 ENGINEER DON A. PARKER

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PROJ. REFERENCE NO.	SHEET NO.
W-5713K	TMP-1A

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING

LEGEND

GENERAL

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

SIGNALS

EXISTING
PROPOSED
TEMPORARY

PAVEMENT MARKINGS

EXISTING LINES
TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

PORTABLE SIGN
STATIONARY SIGN
STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

CRYSTAL/CRYSTAL
CRYSTAL/RED
YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

6" PAINT

P6 - WHITE EDGELINE
P7 - YELLOW EDGELINE
PJ - WHITE 10' SKIP
PK - WHITE 3'-9' MINISKIP

PAINT SYMBOLS

QP - MERGE ARROW

APPROVED: DocuSigned by: Don A. Parker 4DD4828626184 1D...

DATE: 5/12/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043251 ENGINEER DON A. PARKER

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

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ROADWAY STANDARD DRAWINGS & LEGEND

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PROJ. REFERENCE NO.	SHEET NO.
W-5713K	TMP-1B

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES, OR OTHERWISE IMPEDE TRAFFIC FLOW, AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-26 (MAINLINE & RAMPS)	6:00 A.M. - 7:00 P.M.
I-40 (MAINLINE & RAMPS)	(MONDAY-SUNDAY)

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
I-26 (MAINLINE & RAMPS)
I-40 (MAINLINE & RAMPS)

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

7. FOR THANKSGIVING, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY AND 7:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-26 (MAINLINE & RAMPS)	ANYTIME
I-40 (MAINLINE & RAMPS)	

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

E) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

   BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

   BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

   BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC BARRIER

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

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

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

   INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC. INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

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

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

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

TRAFFIC CONTROL DEVICES

Q) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

R) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

S) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
I-26 (MAINLINE & RAMPS)	PAINT	NONE

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

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

MISCELLANEOUS

V) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AS DIRECTED BY THE ENGINEER.

APPROVED: DocuSigned by: Don A. Parker 4DD4828626184 1D...

DATE: 5/16/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043251 ENGINEER DON A. PARKER

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

GENERAL NOTES

5/16/2017
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PHASING

STEP 1: USING RSD 1101.02, SHEET 1 OF 3, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON I-26 EB AND RAMP.

NOTE: AS DIRECTED BY THE ENGINEER, CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE B-5178 CONTRACTOR TO ENSURE ADVANCE WARNING SIGNS DO NOT CONFLICT OR OVERLAP. THIS MAY REQUIRE PARTIAL INSTALLATION OF THE ROADWAY STANDARD DRAWING, RELOCATION OF EXISTING SIGNS AND/OR TAKING POSSESSION OF AND MAINTAINING EXISTING B-5178 ADVANCE WARNING SIGNS UPON COMPLETION OF B-5178.

NOTE: END THE MERGE TAPER OF TEMPORARY LANE CLOSURES IN ADVANCE OF THE I-40 WB EXIT RAMP ONTO I-26 EB.

NOTE: USE ADDITIONAL CMS ON I-40 EB FOR ADVANCE WARNING DURING USE OF 1101.02, SHEET 9. (SEE TMP-4)

STEP 2: USING RSD 1101.02, SHEETS 4 & 9:

A) COMPLETE MEDIAN SHOULDER STRENGTHENING.
B) REVISE PAVEMENT MARKINGS PER TMP-3 AND TMP-4.
C) INSTALL PORTABLE CONCRETE BARRIER (PCB) AND TEMPORARY CRASH CUSHION PER TMP-3 AND TMP-4.

STEP 3: BEHIND PCB AND USING RSD. 1101.02, SHEETS 4 & 9, AS NECESSARY, COMPLETE PROPOSED WIDENING CONSTRUCTION, UP TO THE EXISTING TRAVEL EDGE.

STEP 4: USING RSD. 1101.02, SHEETS 4 & 9, REMOVE PCB AND KEEP NEWLY CONSTRUCTED LANE CLOSED WITH DRUMS. PLACE TEMPORARY PAVEMENT MARKINGS IN THE FINAL PATTERN, UNLESS DIRECTED OTHERWISE BY THE ENGINEER, AND OPEN TRAVEL LANE TO TRAFFIC.

STEP 5: USING RSD 1101.02, SHEETS 4 & 9, COMPLETE CONSTRUCTION, FINAL PAVEMENT MARKINGS AND MARKERS.

STEP 6: REMOVE ALL TRAFFIC CONTROL DEVICES.

APPROVED: DocuSigned by: Don A. Parker 4DD4828626184 1D...

DATE: 5/12/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043251 ENGINEER DON A. PARKER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

PHASING

5/12/2017
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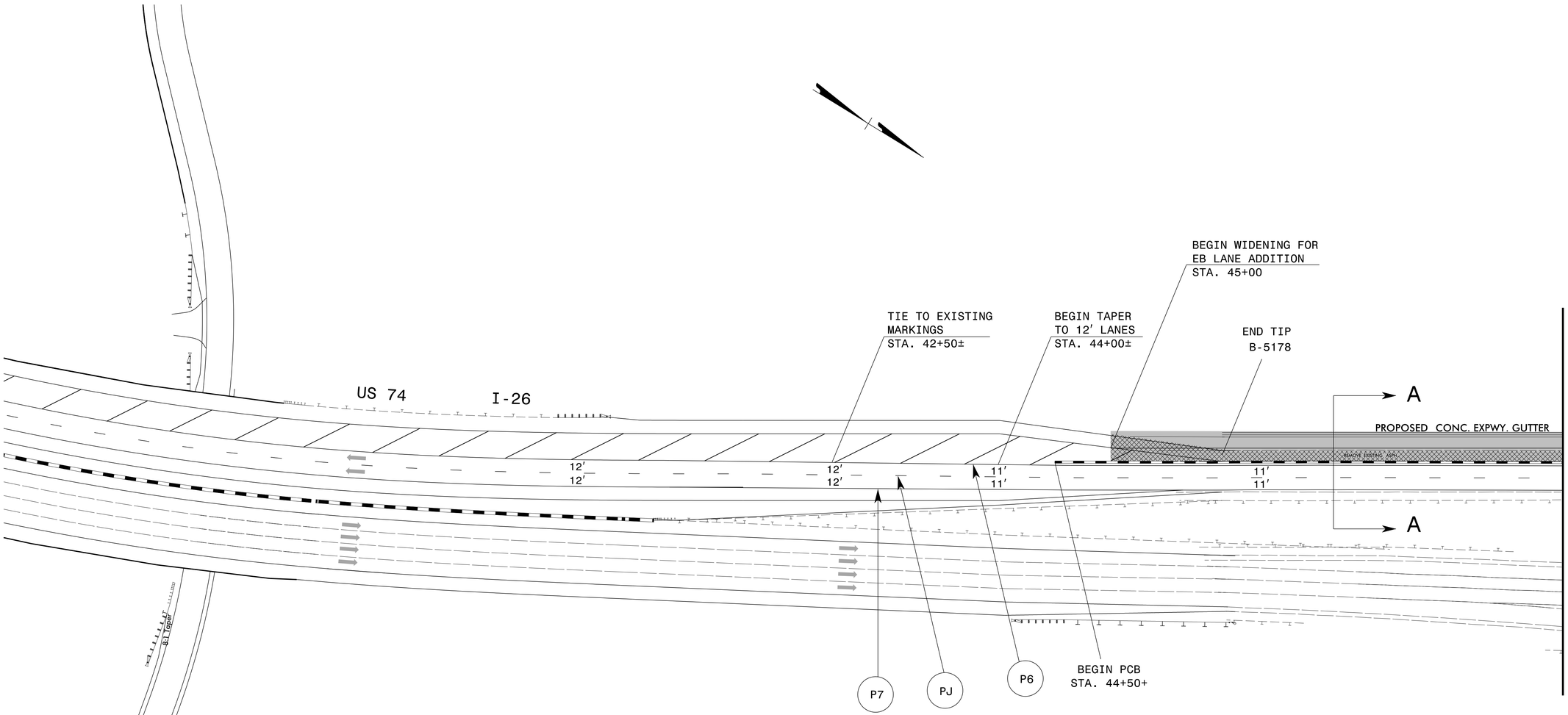
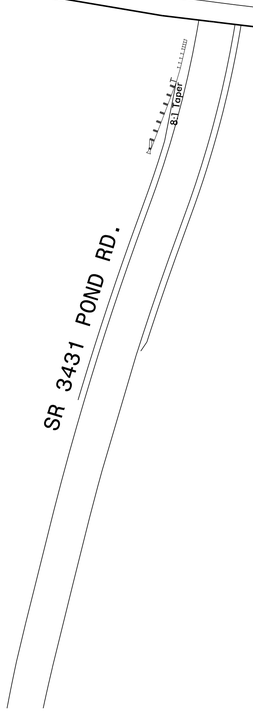
User:kedais

PROJ. REFERENCE NO.	SHEET NO.
W-5713K	TMP-3





SECTION A-A
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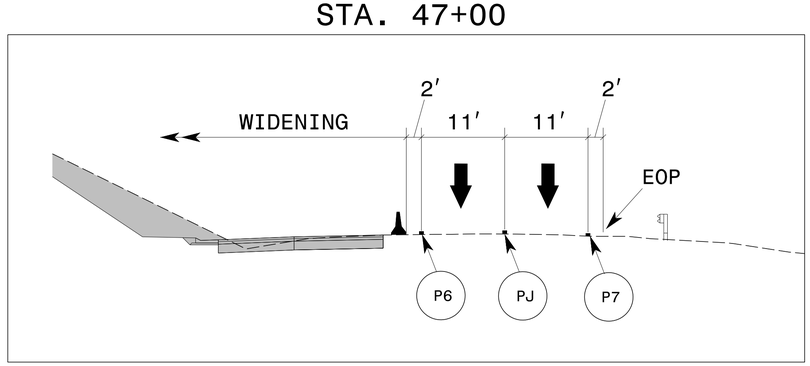

APPROVED: DocuSigned by: Don A. Parker 4DD4828626184 1D...

DATE: 5/12/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043251 ENGINEER DON A. PARKER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

TRAFFIC CONTROL DETAIL I

5/12/2017
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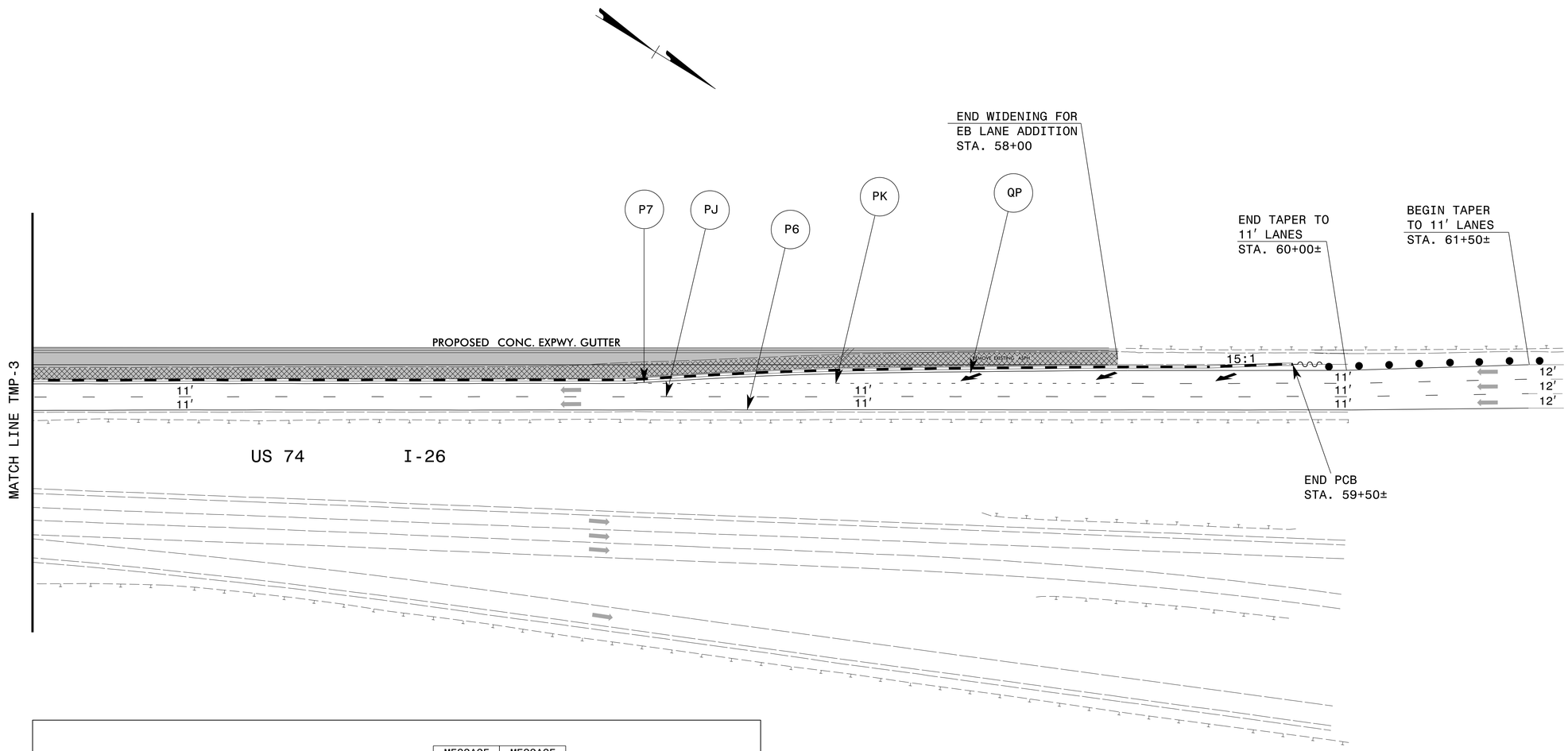

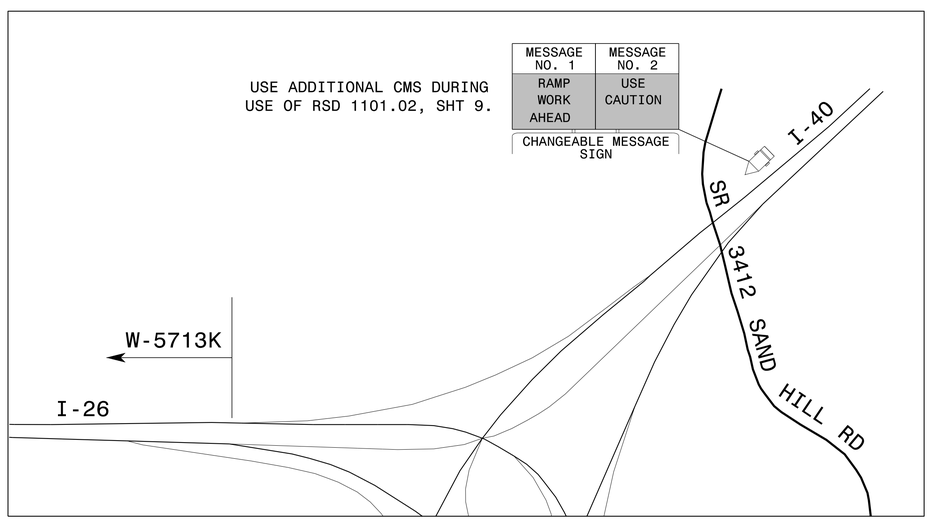

APPROVED: DocuSigned by: Don A. Parker 4DD48286261841D...

DATE: 5/12/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043251 ENGINEER DON A. PARKER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

TRAFFIC CONTROL
DETAIL II

5/12/2017
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User:kedais

T.I.P.: W-5713K

CONTRACT:

TIP NO.	SHEET NO.
W-5713K	PMP-1

APPROVED: Docusigned by: Renee B. Roach B3C8C6F7CF4640D...

DATE: 6/6/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 024921 ENGINEER RENEE B. ROACH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

BUNCOMBE COUNTY

LOCATION: I-26EB FROM THE I-40EB ON-RAMP TO A POINT JUST NORTH OF SR 3431 SAFETY IMPROVEMENTS

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

PAVEMENT MARKING SCHEDULE

MATERIAL	SYMBOL	DESCRIPTION
PAVEMENT MARKING		
PAINT (12")		
	PU	WHITE DIAGONAL
	PV	YELLOW DIAGONAL
PAINT (6")		
	P6	WHITE EDGELINE
	PK	3 FT.-9 FT./SP WHITE MINISKIP
POLYUREA (6") Highly Reflective Media		
	V6	WHITE EDGELINE
	V7	YELLOW EDGELINE
	VJ	10 FT. WHITE SKIP
PAINT MARKING SYMBOL		
	QP	MERGE ARROW
SNOWPLOWABLE RAISED PAVEMENT MARKERS		
	MF	CRYSTAL & RED

GENERAL NOTES

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

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
I-26 EAST BOUND	POLYUREA WITH HIGHLY REFLECTIVE MEDIA AND PAINT	SNOW PLOWABLE MARKERS

B) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME OF THE FIRST.

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

D) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

E) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING PAINT AND POLYUREA PAVEMENT MARKING MATERIAL.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2-4	PAVEMENT MARKING DETAIL

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

KELVIN JORDAN — SIGNING & DELINEATION REGIONAL ENGINEER

DERRICK BEARD — SIGNING & DELINEATION PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

06/06/17
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User:dbeard

TIP NO.	SHEET NO.
W-5713K	PMP-2

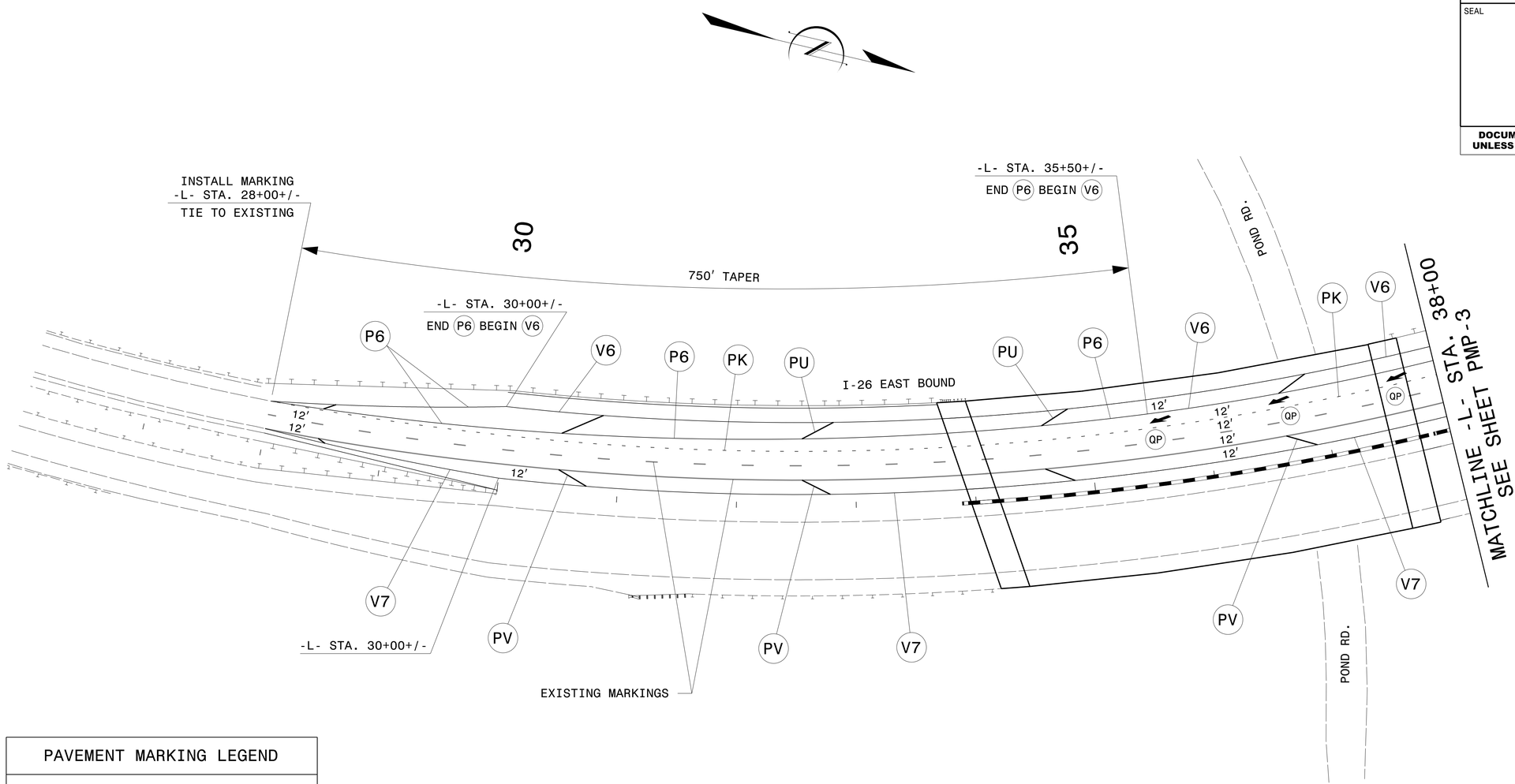
APPROVED: Renee B. Roach (DocuSigned by: B3C8C6F7CF4640D...)

DATE: 6/6/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 024921 ENGINEER RENEE B. ROACH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PAVEMENT MARKING LEGEND

PAINT

- P6 WHITE EDGELINE (6")
- PK 3FT.-9FT./SP WHITE MINISKIP (6")
- PU WHITE DIAGONAL (12")
- PV YELLOW DIAGONAL (12")
- QP MERGE ARROW

POLYUREA

- V6 WHITE EDGELINE (6")
- V7 YELLOW EDGELINE (6")
- VJ 10 FT. WHITE SKIP (6")

PAVEMENT MARKING DETAIL

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User:dhbeard

TIP NO.	SHEET NO.
W-5713K	PMP-3

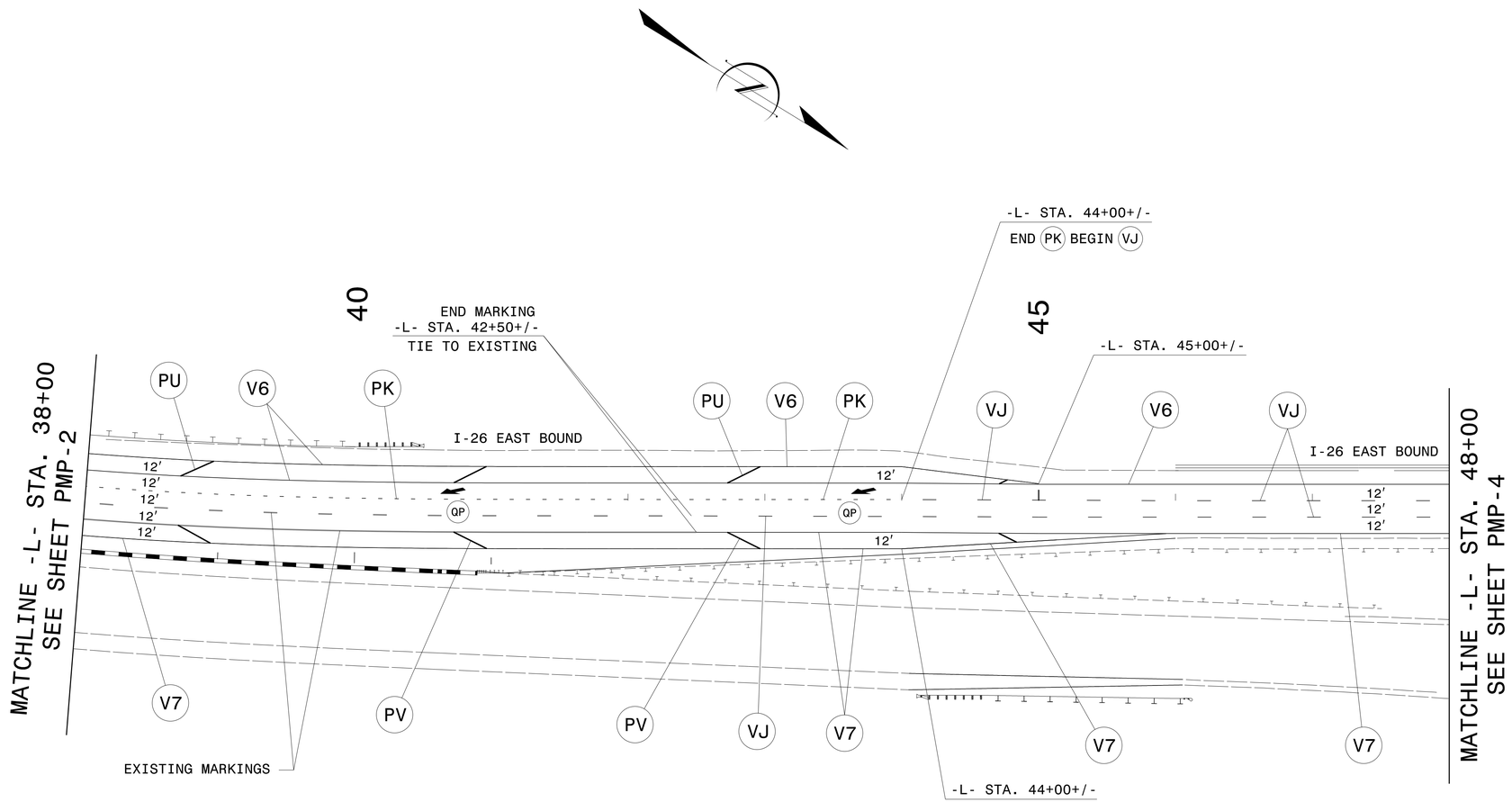
APPROVED: Renee B. Roach (DocuSigned by: B3C8C6F7CF4640D...)

DATE: 6/6/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 024921 ENGINEER RENEE B. ROACH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PAVEMENT MARKING LEGEND

PAINT

- (P6) WHITE EDGELINE (6″)
- (PK) 3FT.-9FT./SP WHITE MINISKIP (6″)
- (PU) WHITE DIAGONAL (12″)
- (PV) YELLOW DIAGONAL (12″)
- (QP) MERGE ARROW

POLYUREA

- (V6) WHITE EDGELINE (6″)
- (V7) YELLOW EDGELINE (6″)
- (VJ) 10 FT. WHITE SKIP (6″)

PAVEMENT MARKING DETAIL

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TIP NO.	SHEET NO.
W-5713K	PMP-4

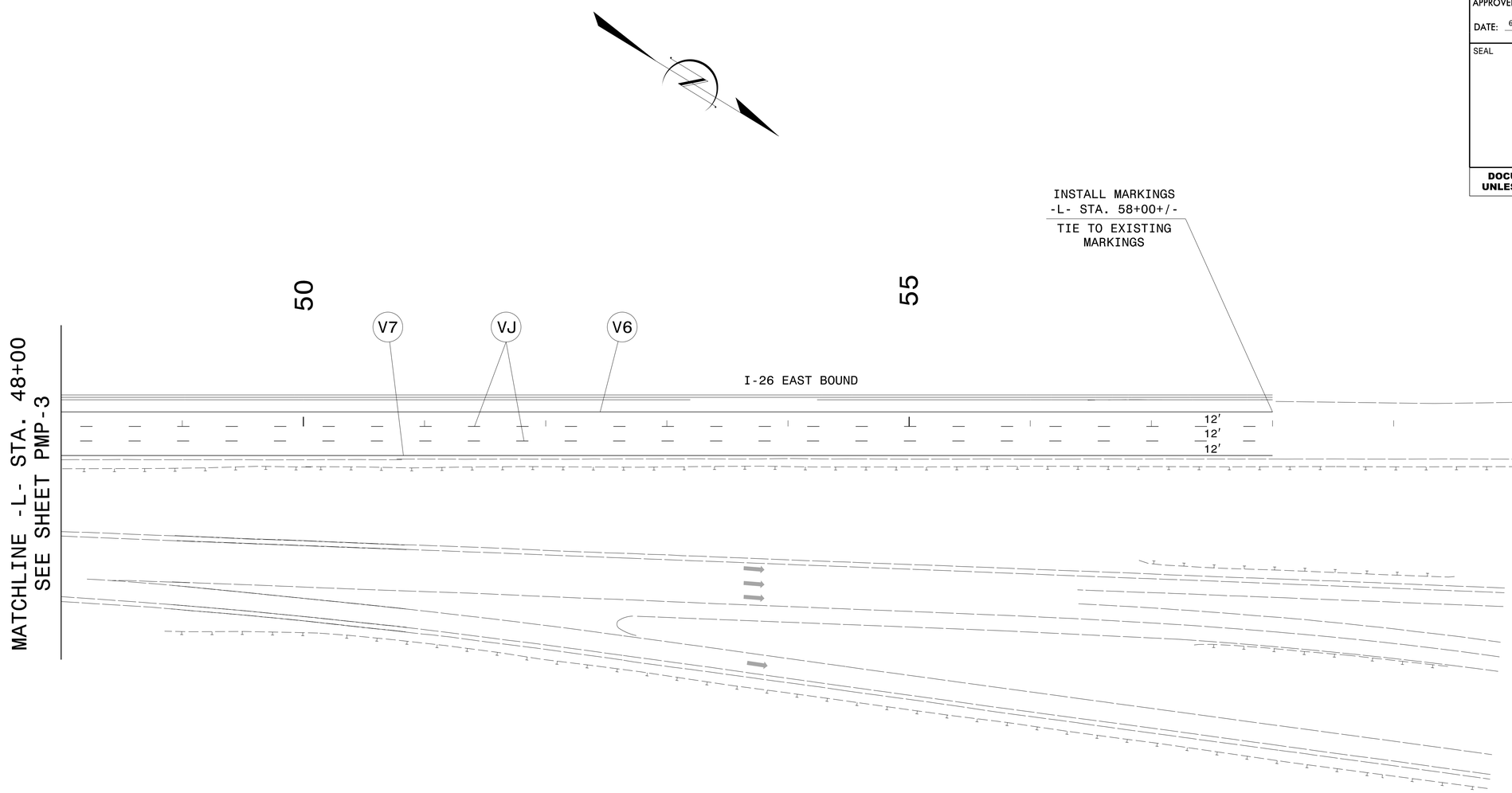
APPROVED: Renee B. Roach (DocuSigned by: B3C8C6F7CF4640D...)

DATE: 6/6/2017

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 024921 ENGINEER RENEE B. ROACH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PAVEMENT MARKING LEGEND

PAINT

- (P6) WHITE EDGELINE (6")
- (PK) 3FT.-9FT./SP WHITE MINISKIP (6")
- (PU) WHITE DIAGONAL (12")
- (PV) YELLOW DIAGONAL (12")
- (QP) MERGE ARROW

POLYUREA

- (V6) WHITE EDGELINE (6")
- (V7) YELLOW EDGELINE (6")
- (VJ) 10 FT. WHITE SKIP (6")

PAVEMENT MARKING DETAIL

06/06/17
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TIP PROJECT: W-5713K

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5713K	EC-1	

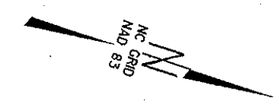
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

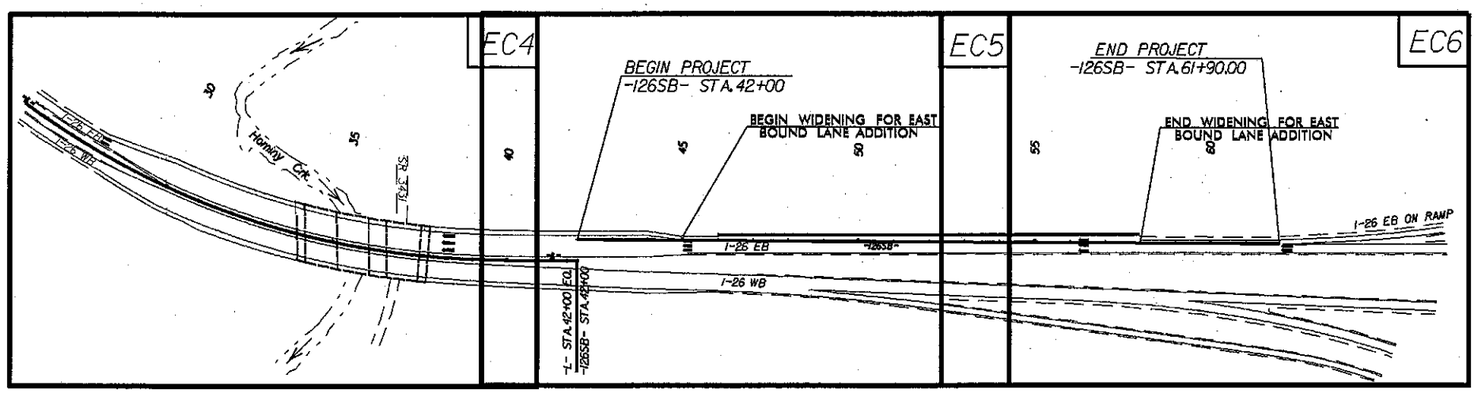
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

BUNCOMBE COUNTY

LOCATION: I-26 EAST BOUND LANE AT INTERSECTION OF I-26 AND I-40





EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
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	BW CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

GRAPHIC SCALE

25 0 50
PLANS

25 0 50
PROFILE (HORIZONTAL)

5 0 10
PROFILE (VERTICAL)

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.

Prepared in the Office of:

DDC UNIT

55 Orange St.
Asheville, NC 28801

2012 STANDARD SPECIFICATIONS

Designed by:

NAME *LEVEL III CERTIFICATION NO.* 3787

Roadway Standard Drawings

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

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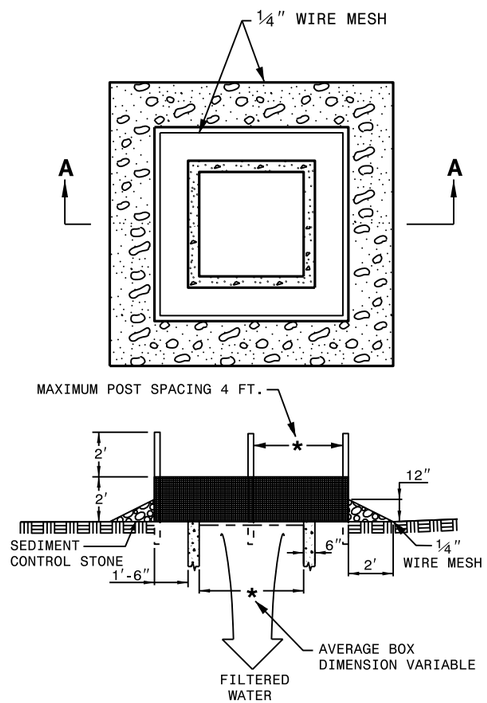
8/17/99

ROCK INLET SEDIMENT TRAP TYPE 'C'

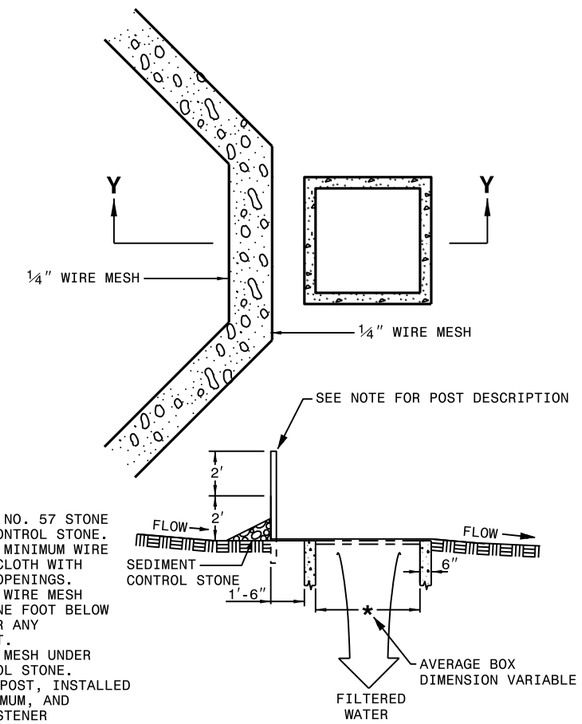
Std. 1632.03



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'.



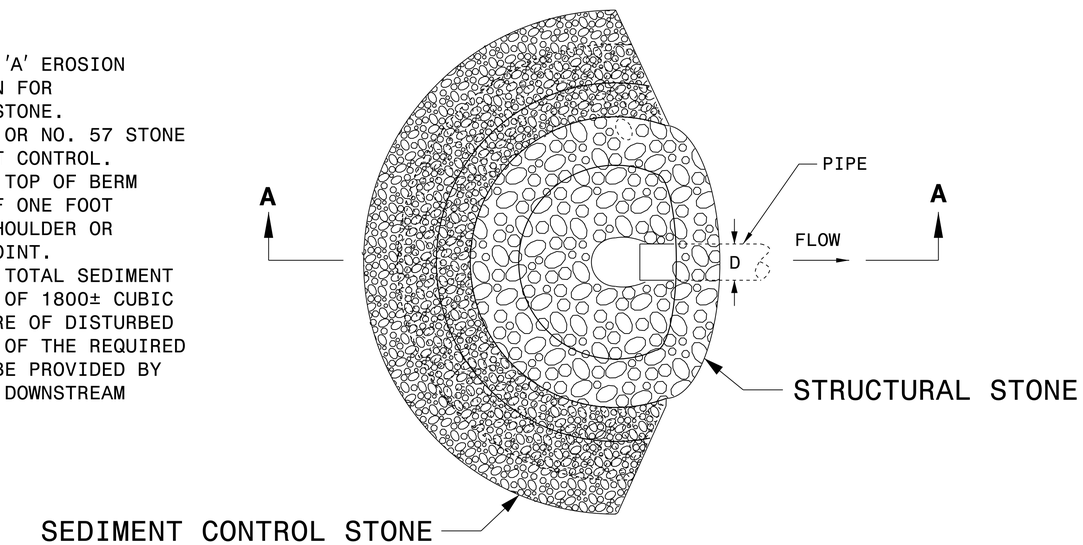
SECTION Y-Y

SINGLE-DIRECTIONAL FLOW

ROCK PIPE INLET SEDIMENT TRAP TYPE 'B'

Std. 1635.02

NOTE:
USE CLASS 'A' EROSION CONTROL STON FOR STRUCTURAL STONE.
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.
CONSTRUCT TOP OF BERM A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR DIVERSION POINT.
PROVIDE A TOTAL SEDIMENT TRAP VOLUME OF 1800± CUBIC FEET PER ACRE OF DISTURBED AREA. SOME OF THE REQUIRED VOLUME MAY BE PROVIDED BY OTHER UP OR DOWNSTREAM CONTROLS.



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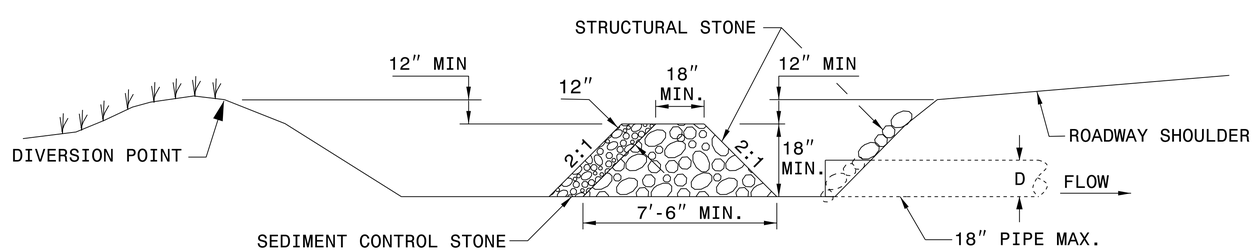

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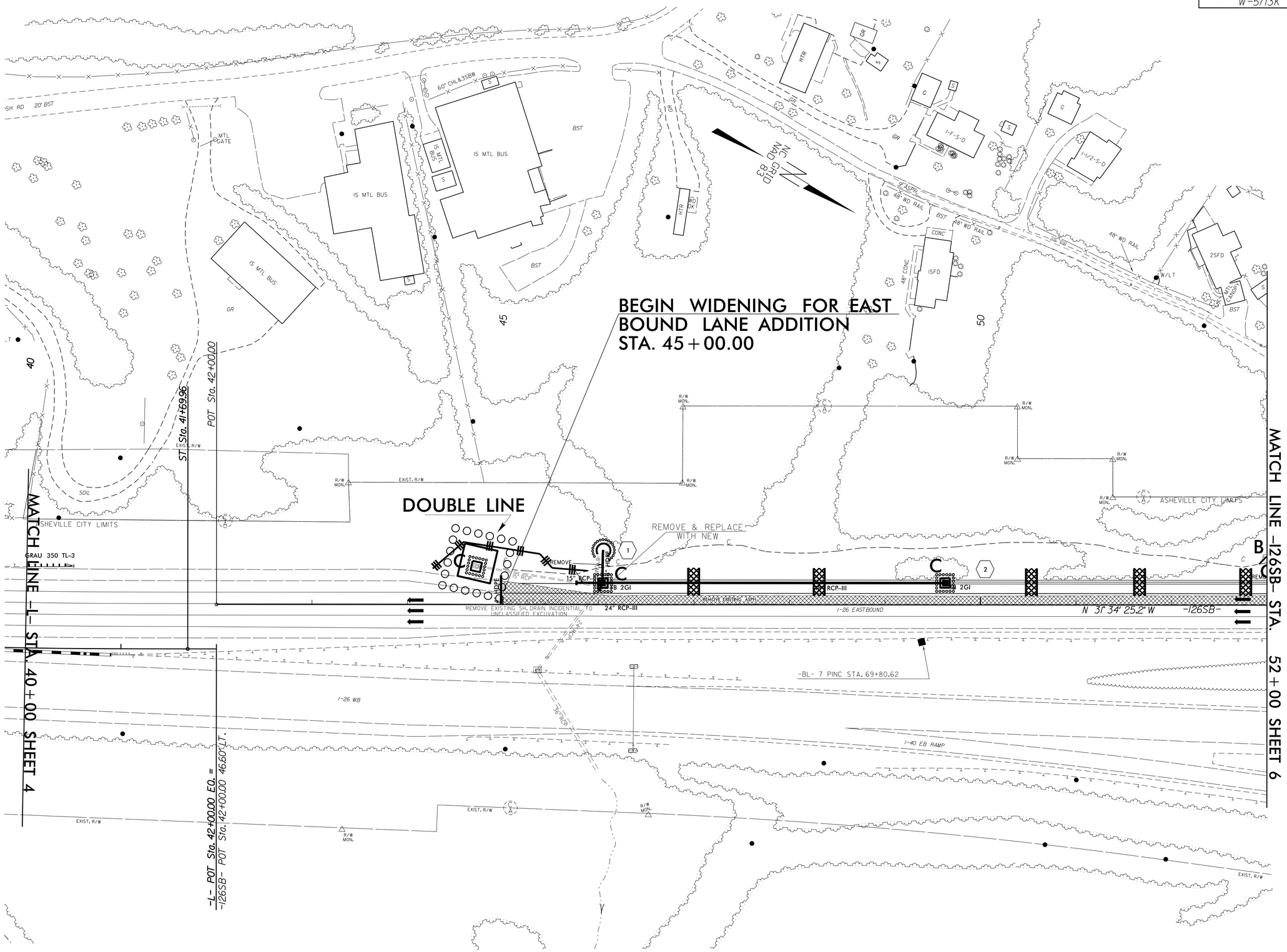

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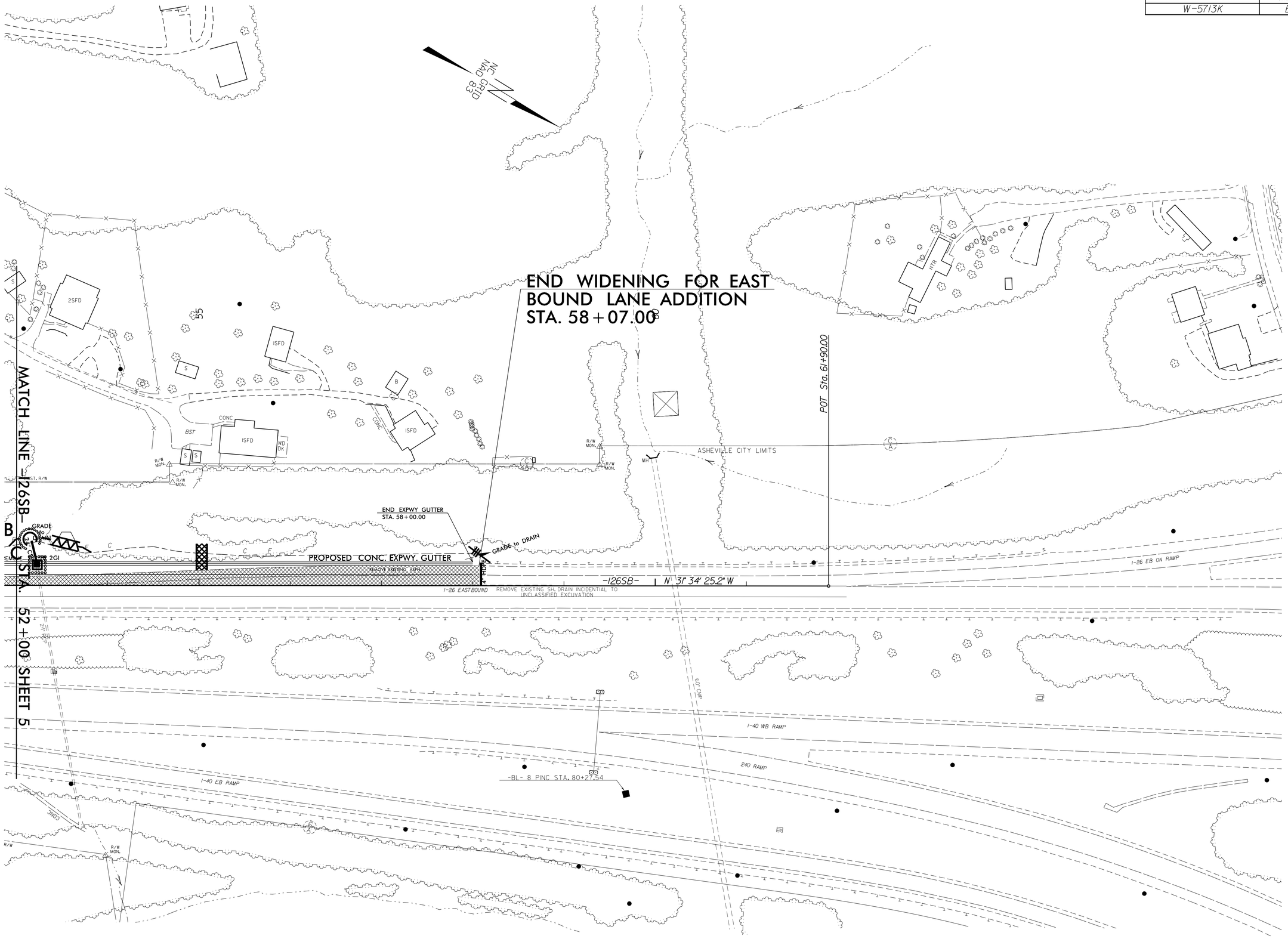

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6/23/16

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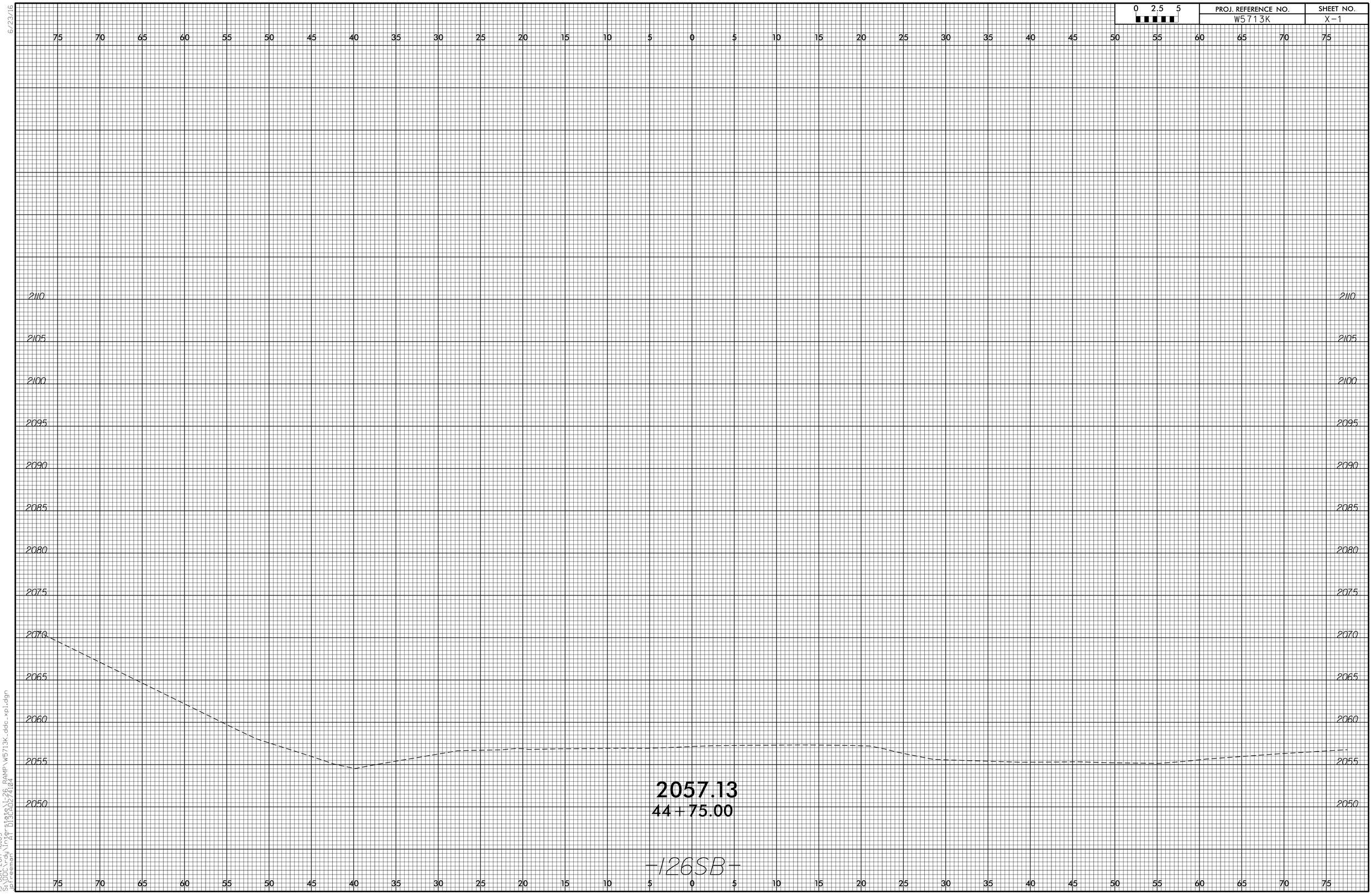

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6/23/16

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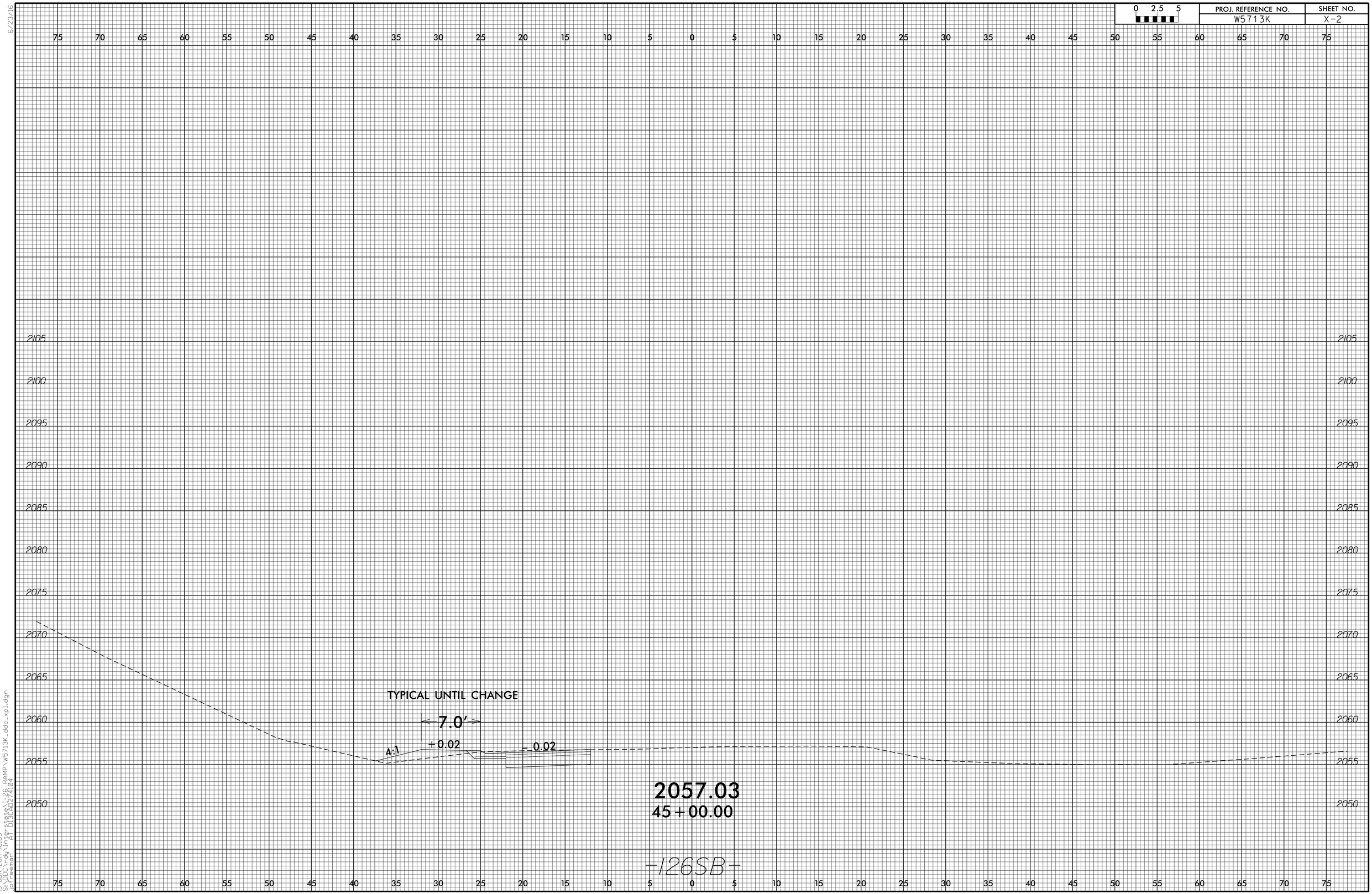

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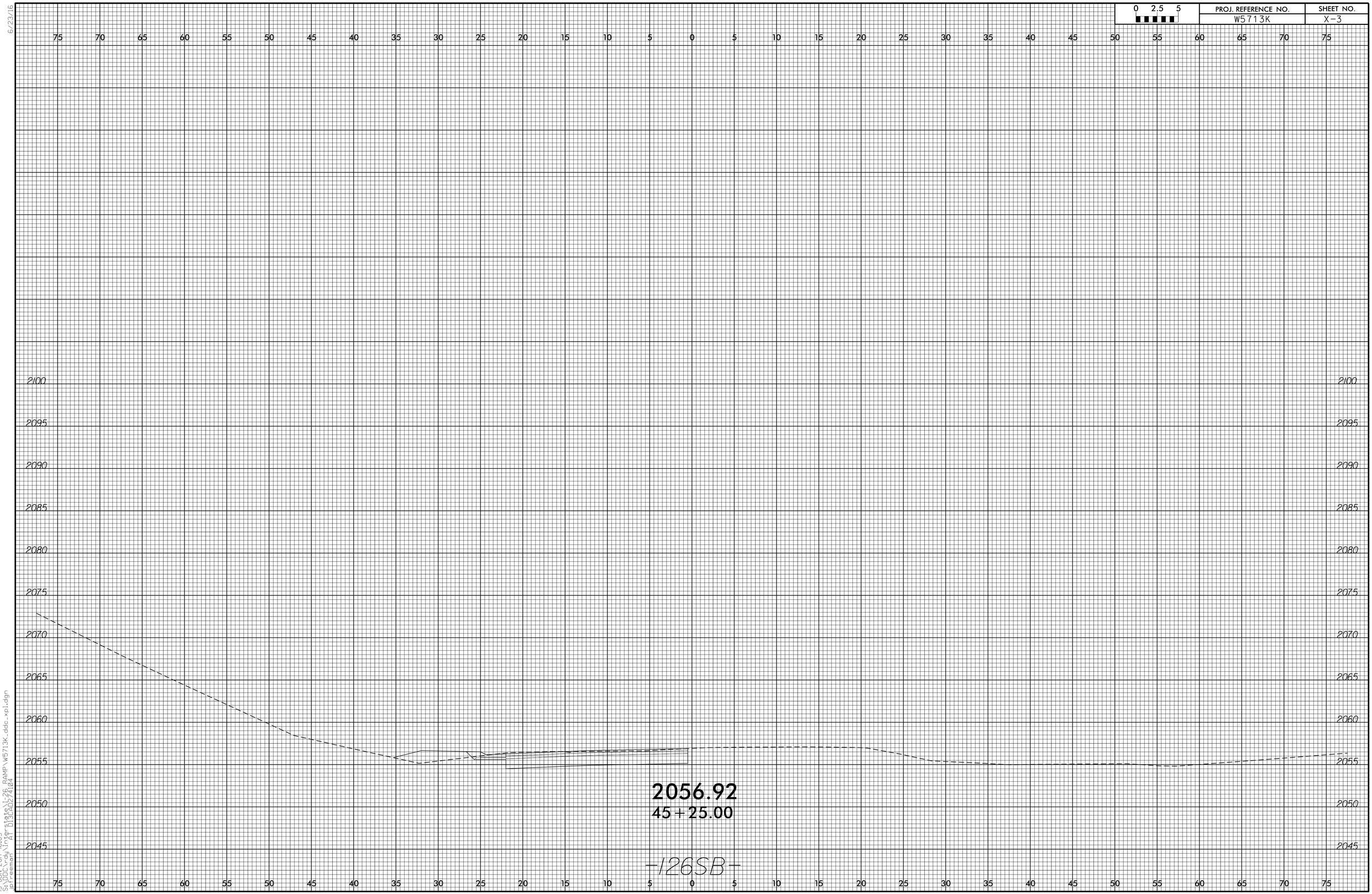

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6/23/16

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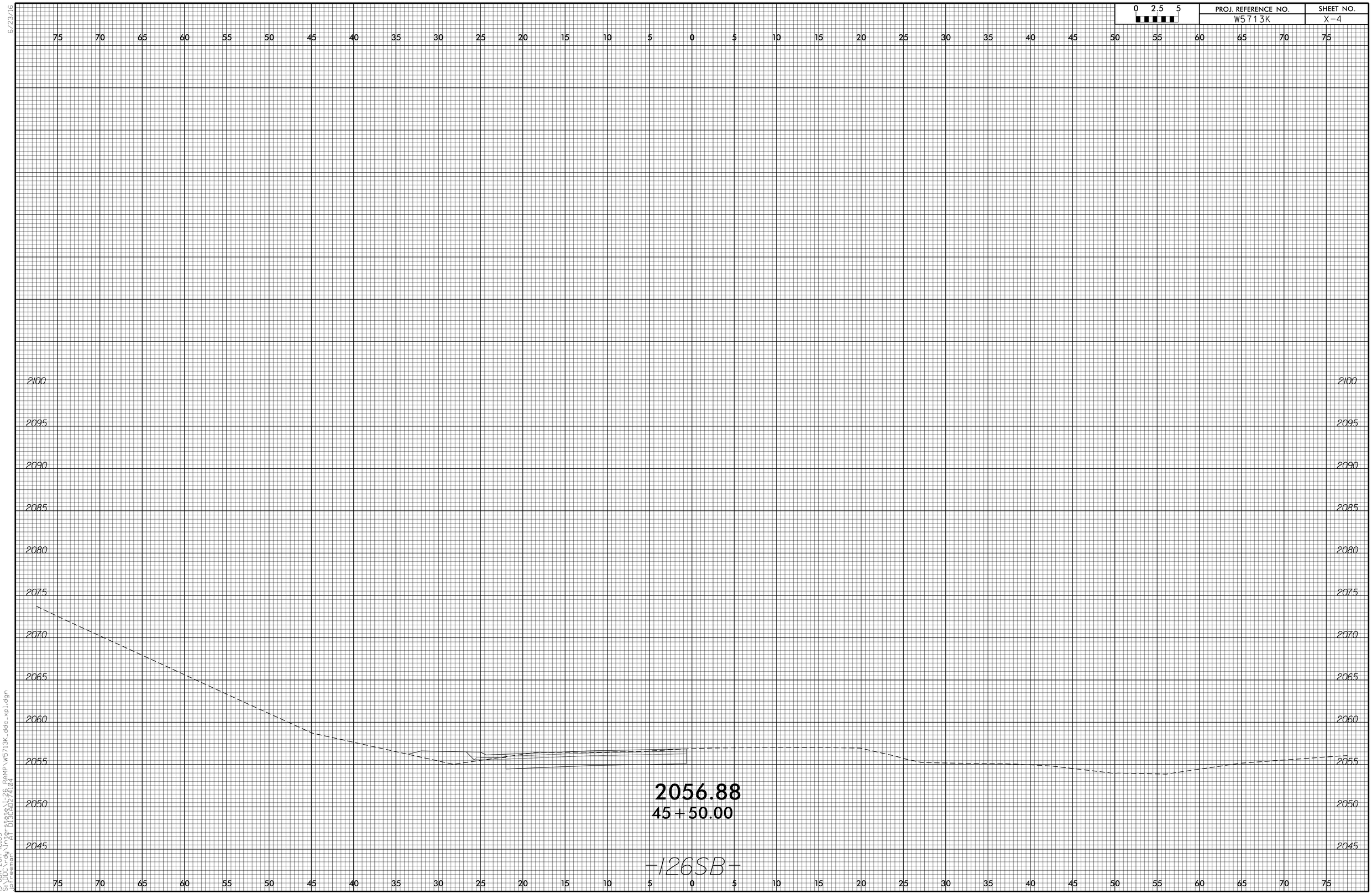

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6/23/16

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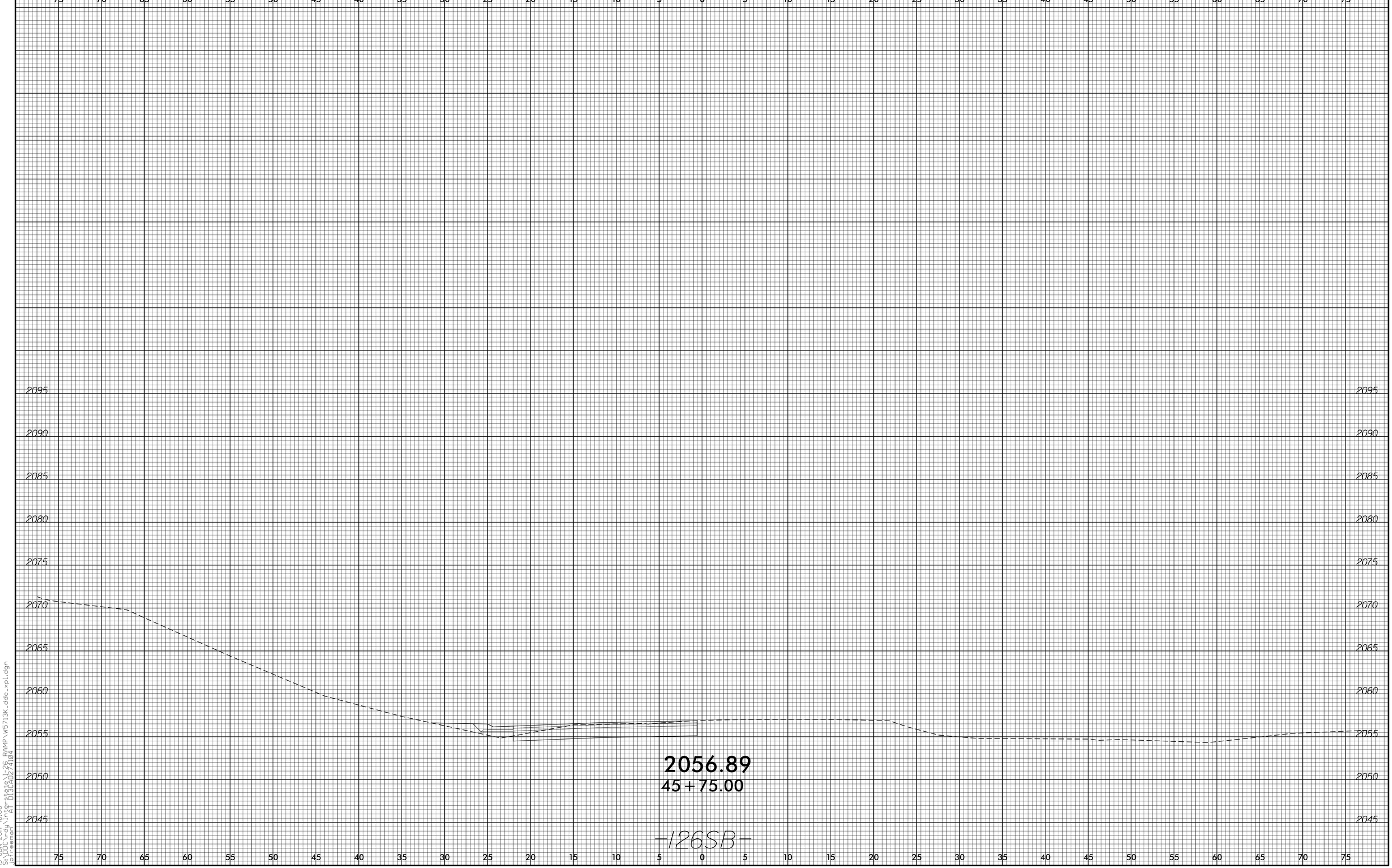

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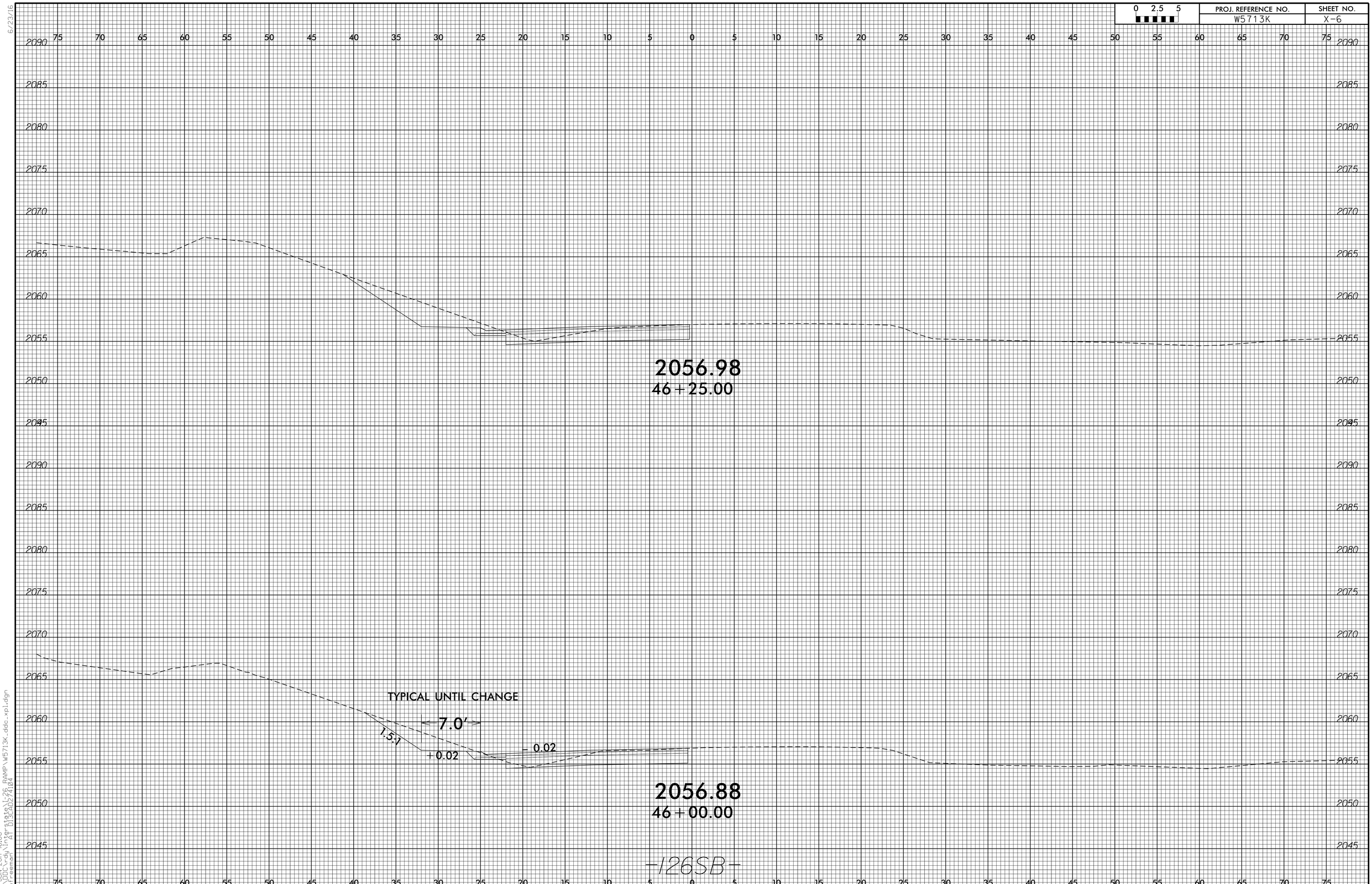

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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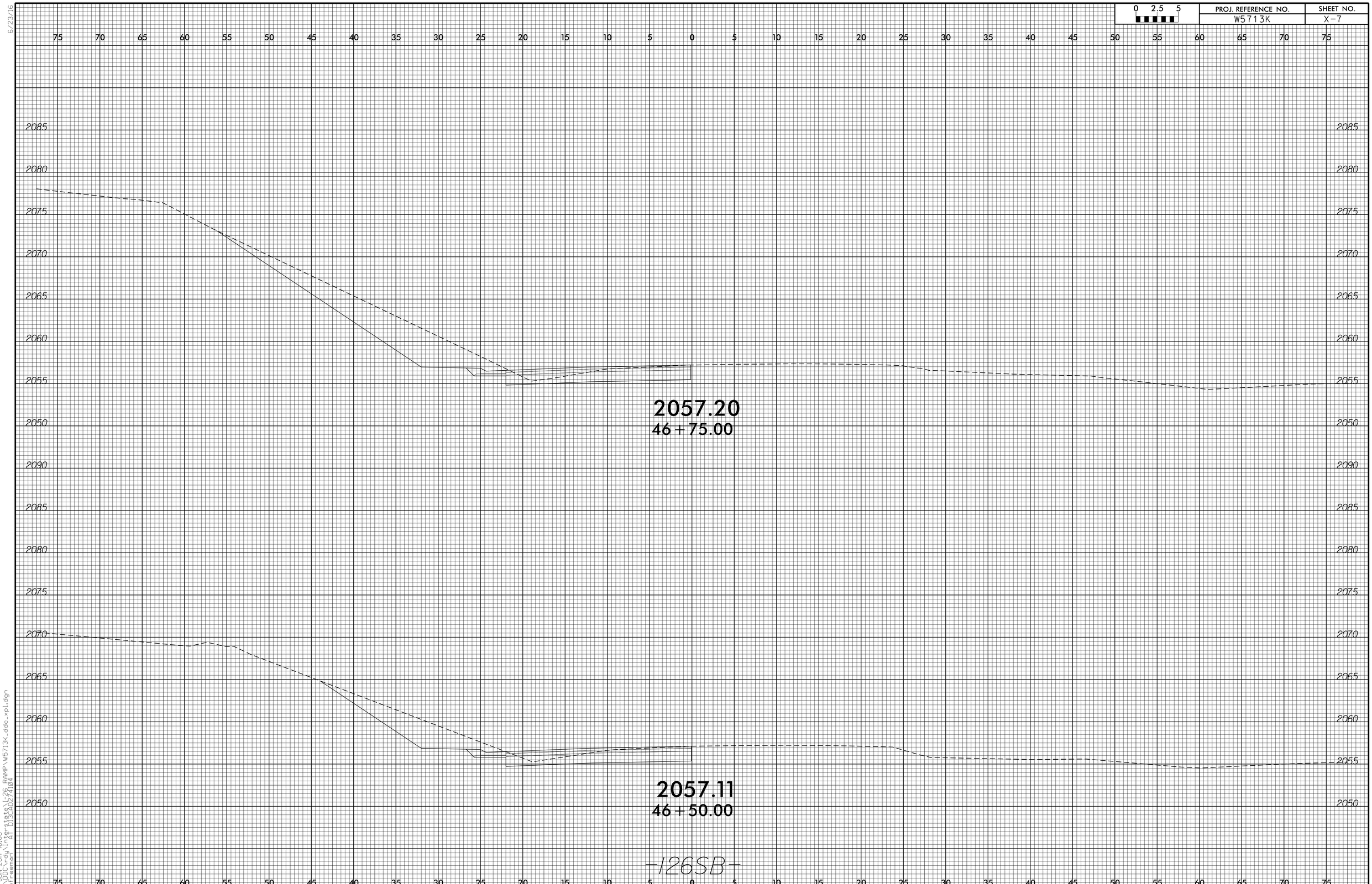

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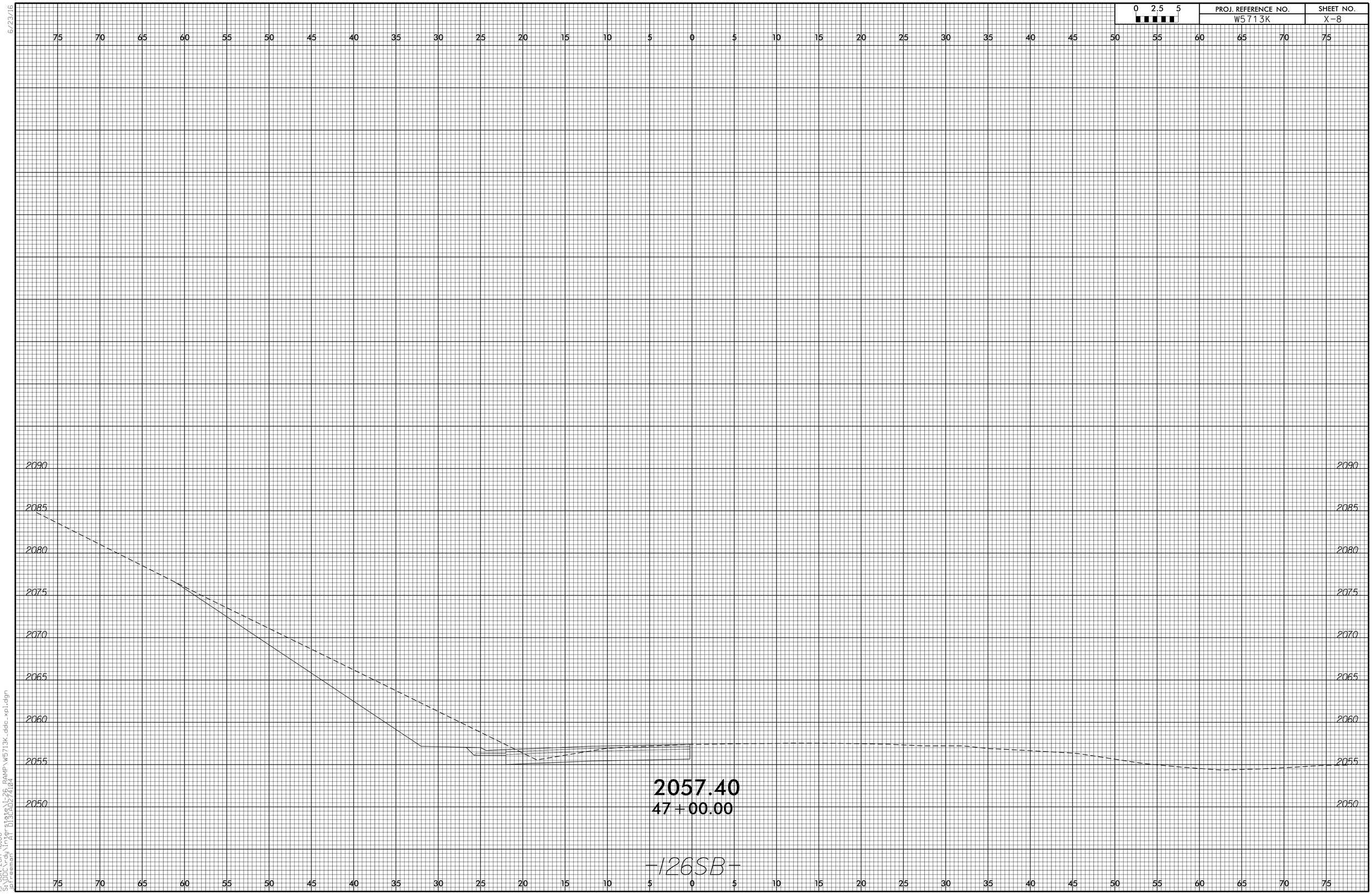

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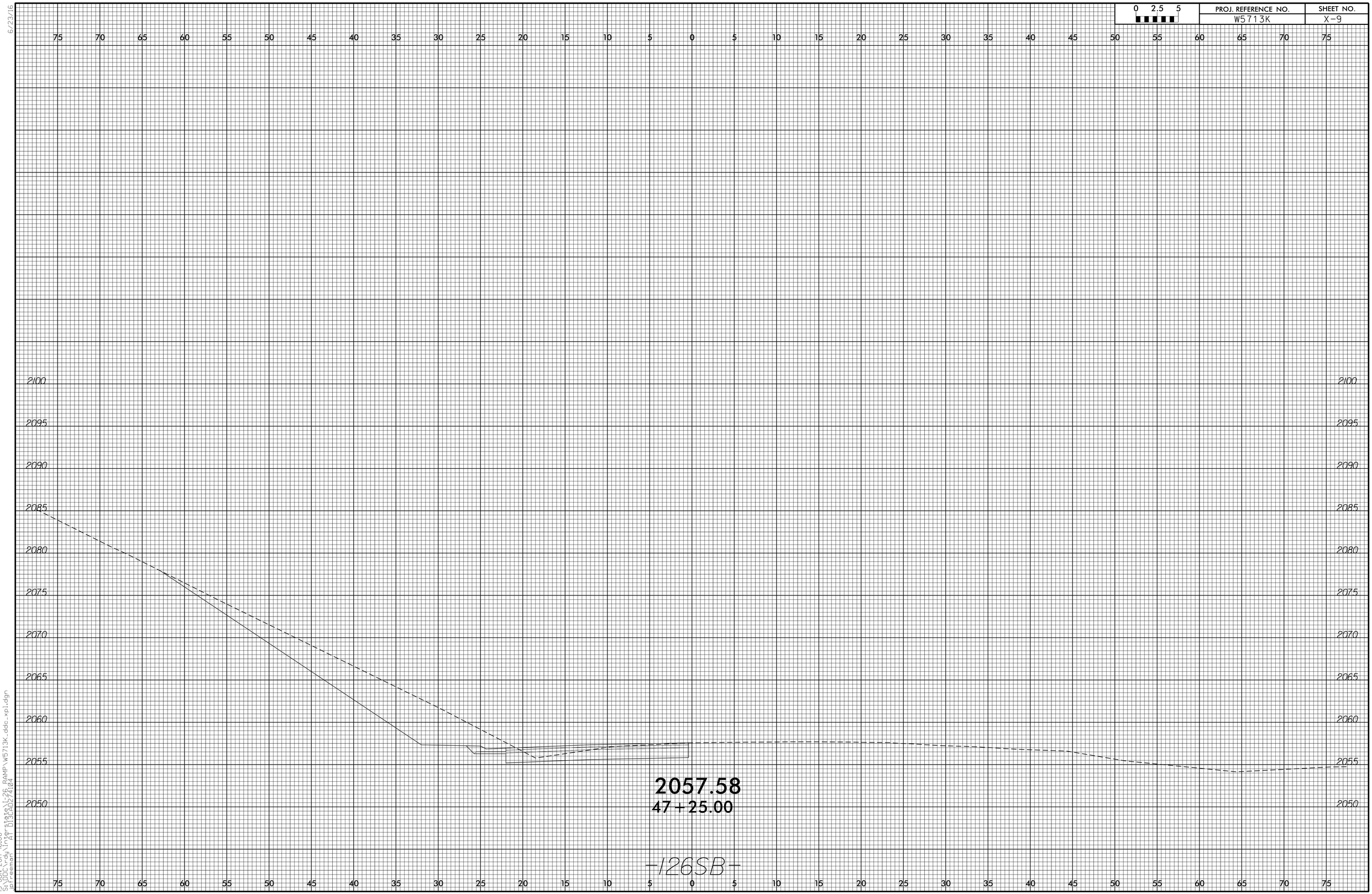

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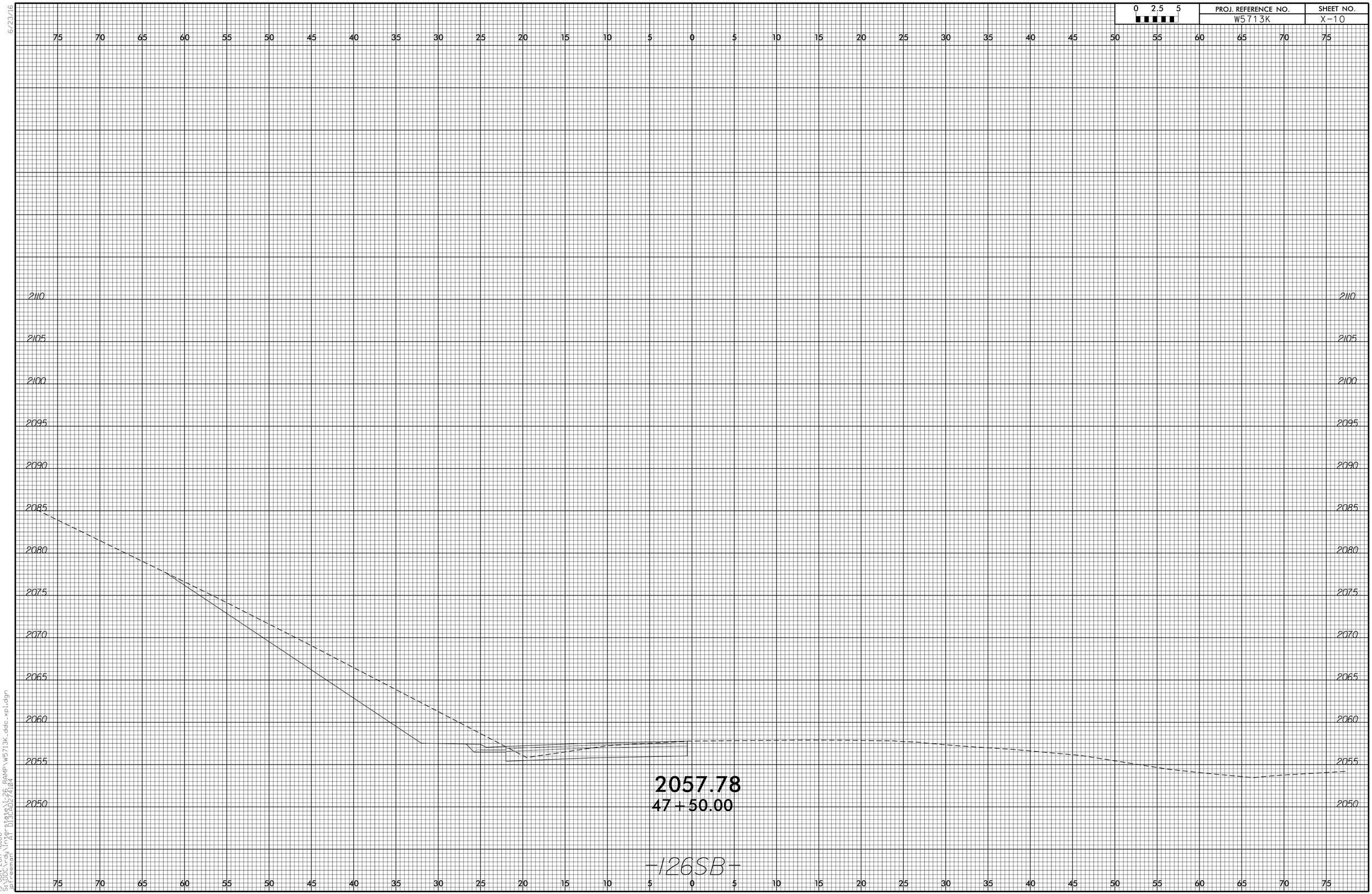

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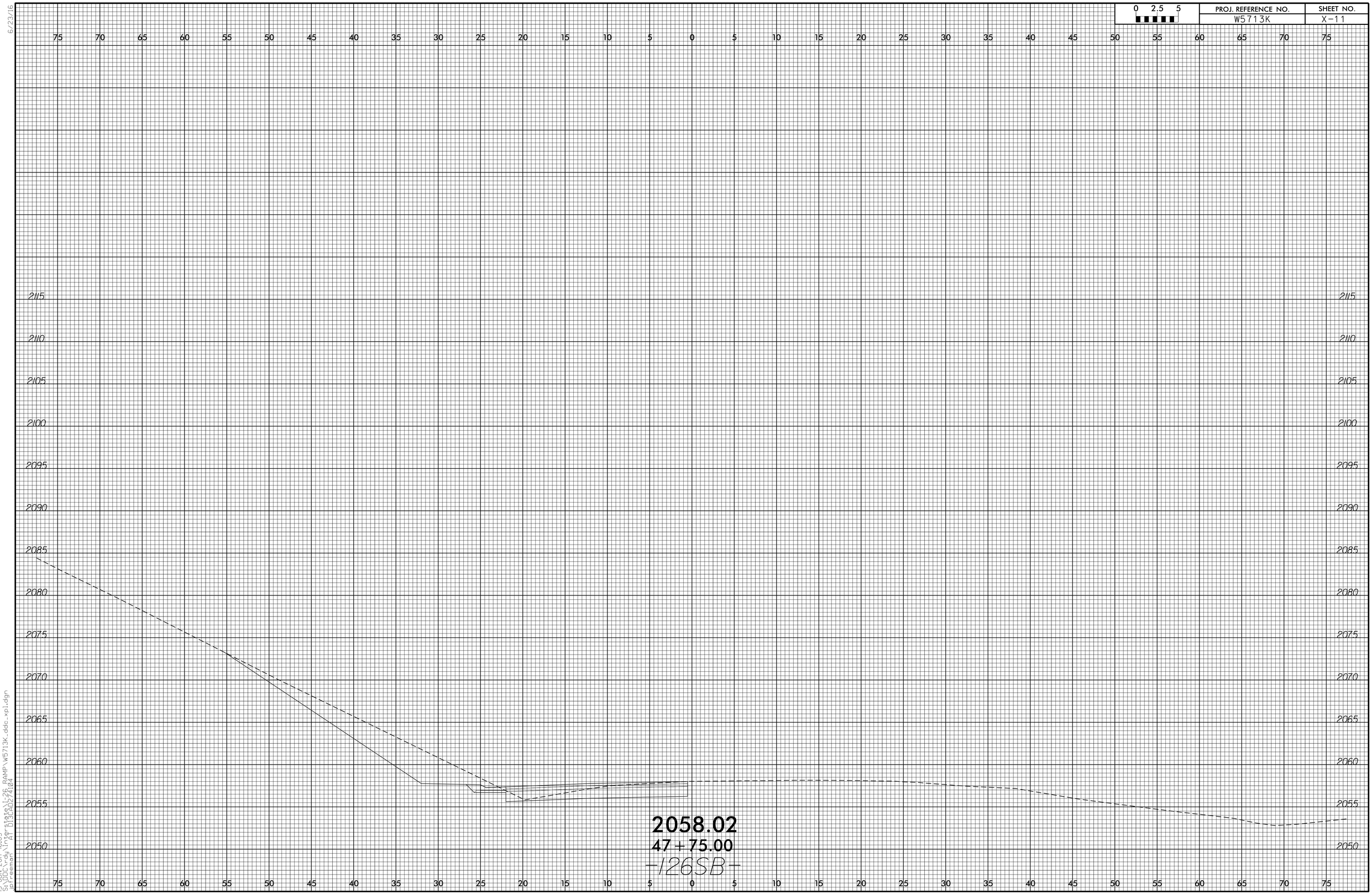

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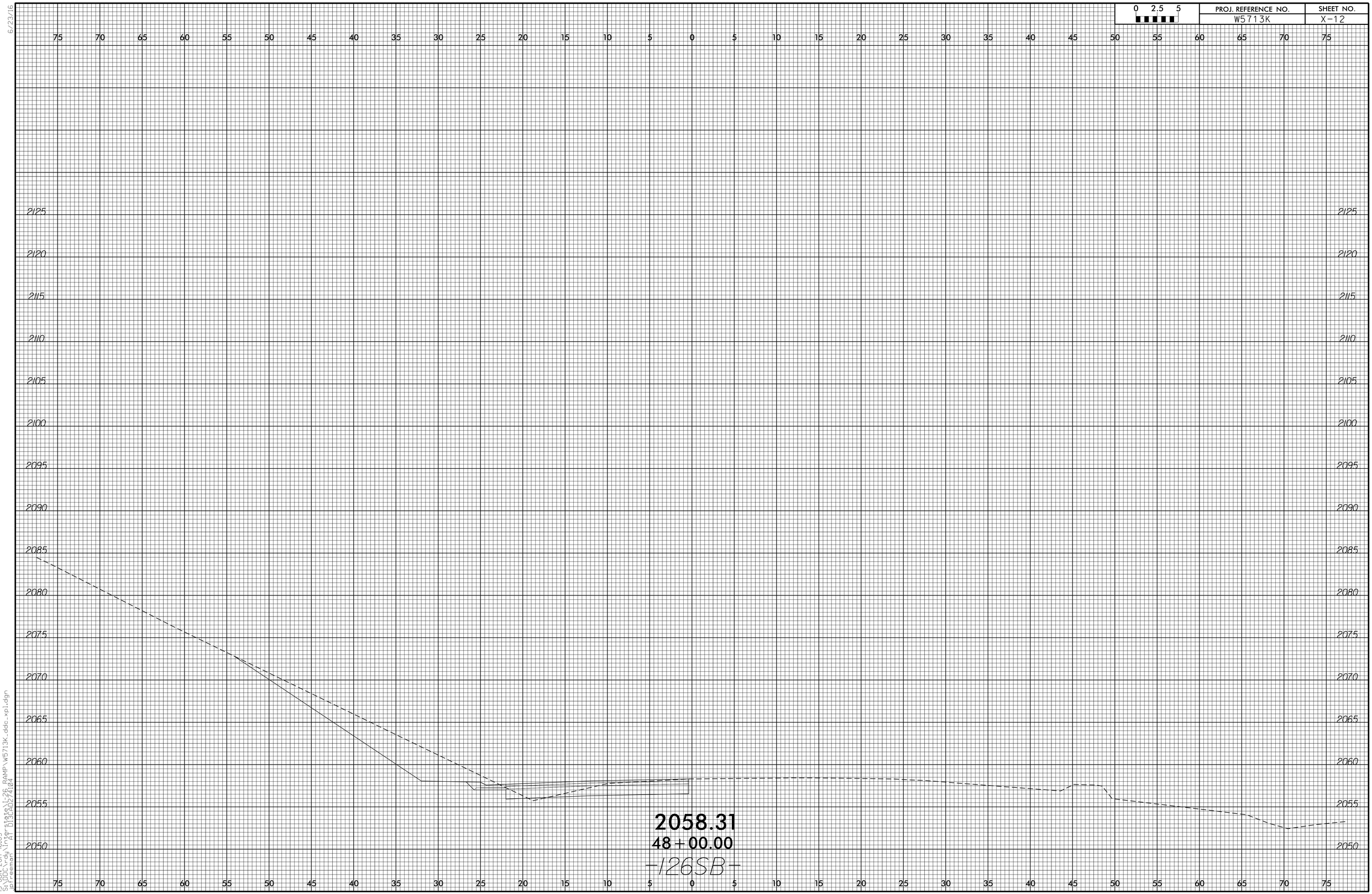

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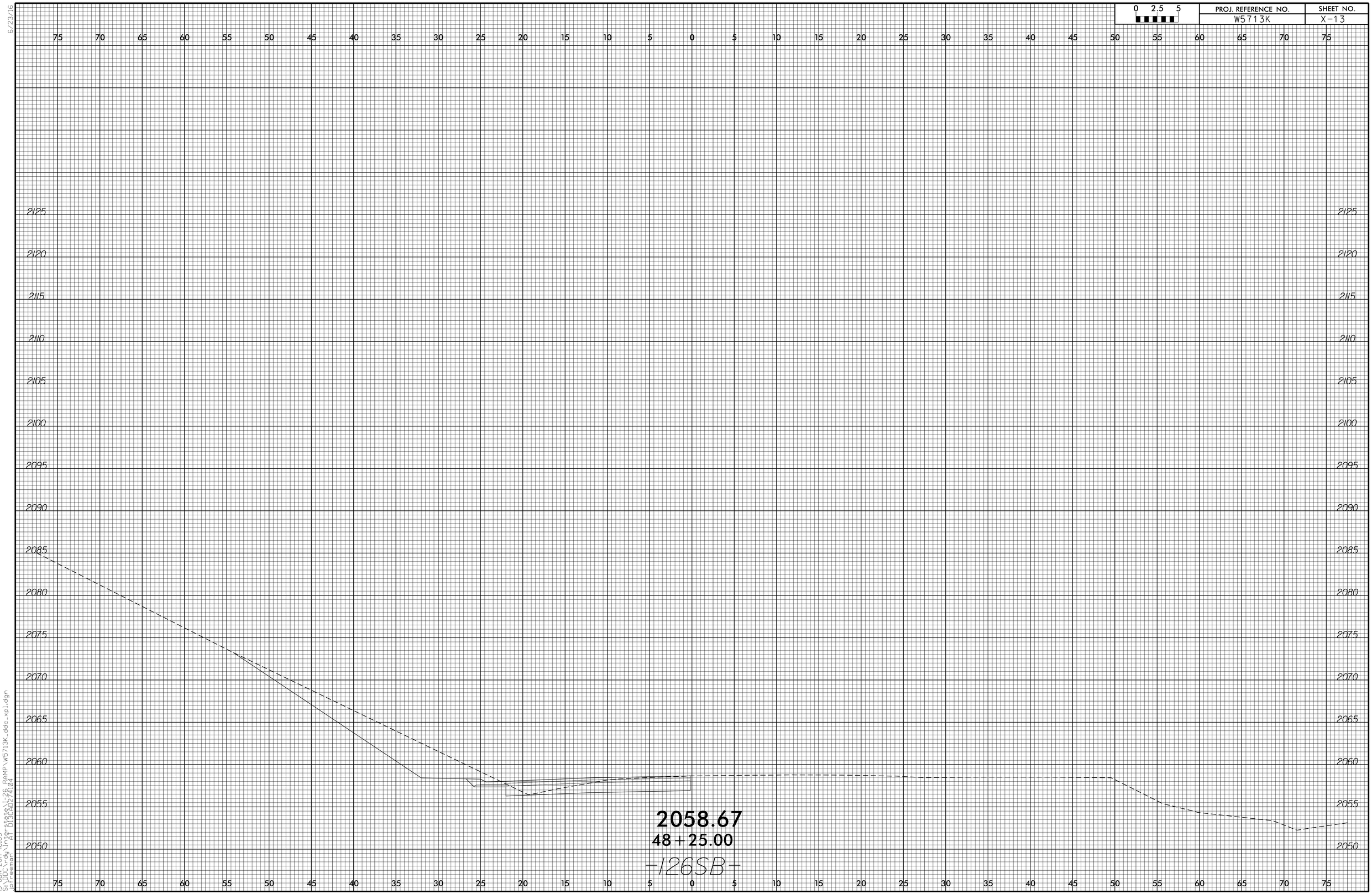

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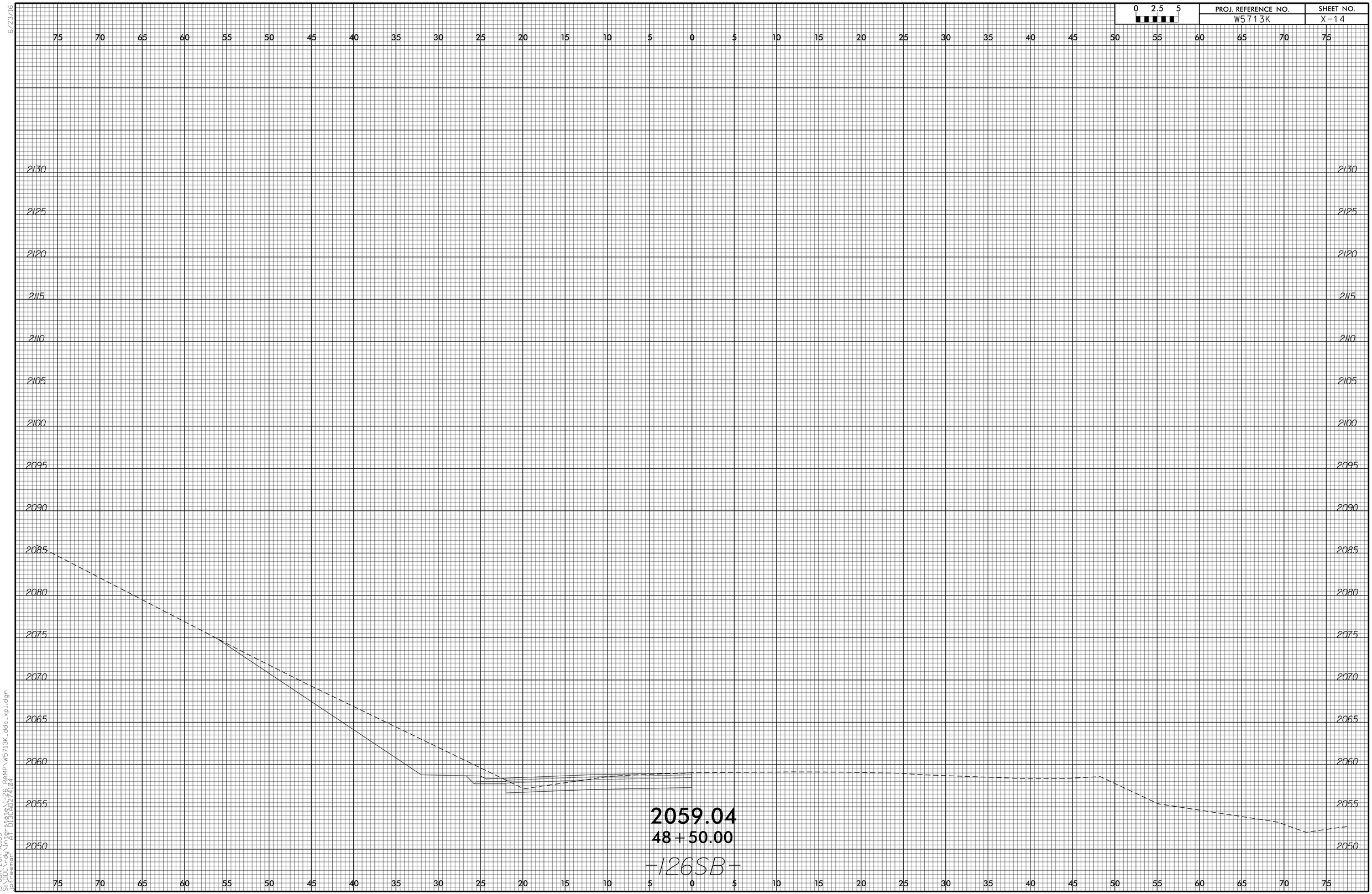

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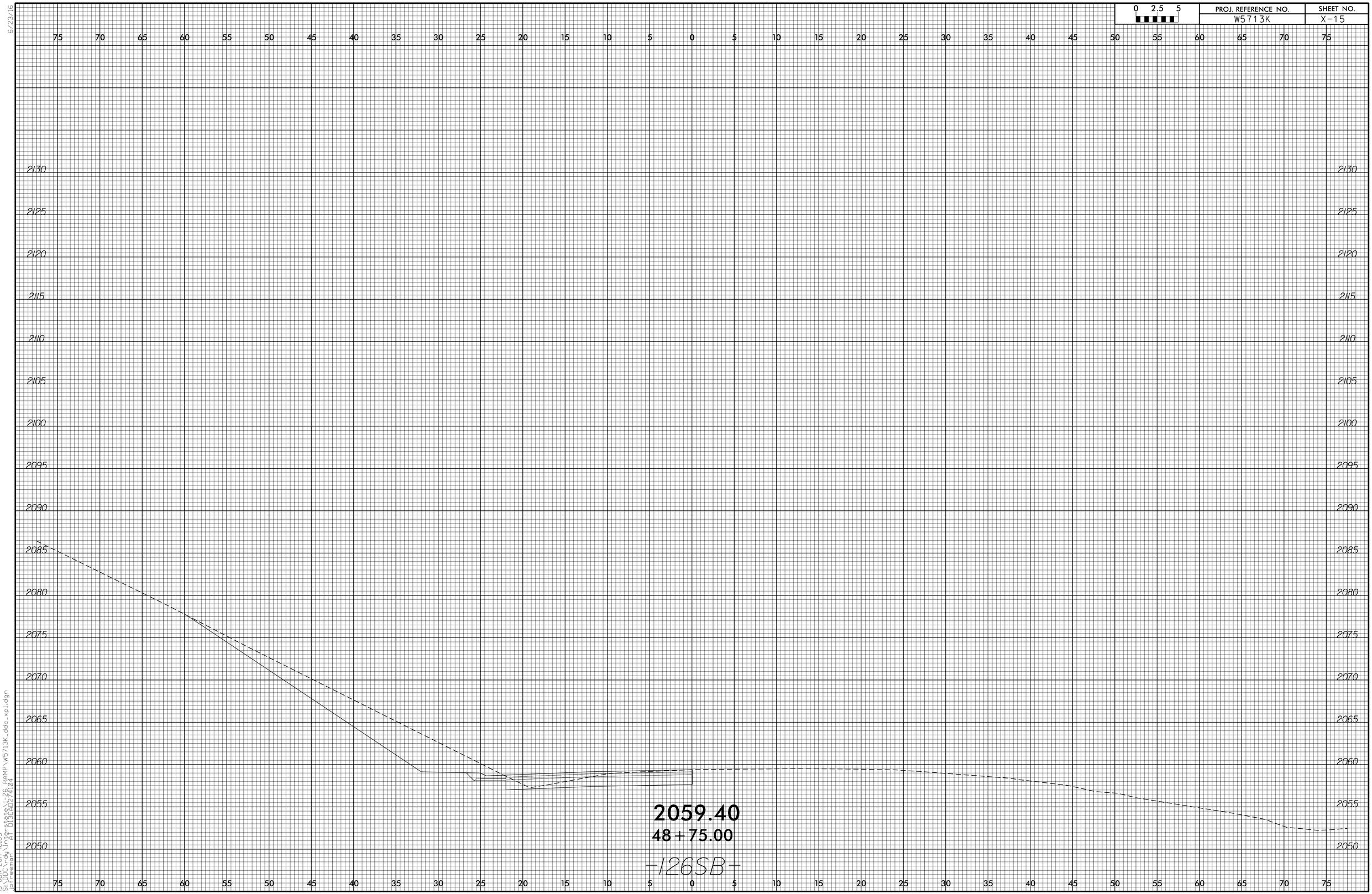

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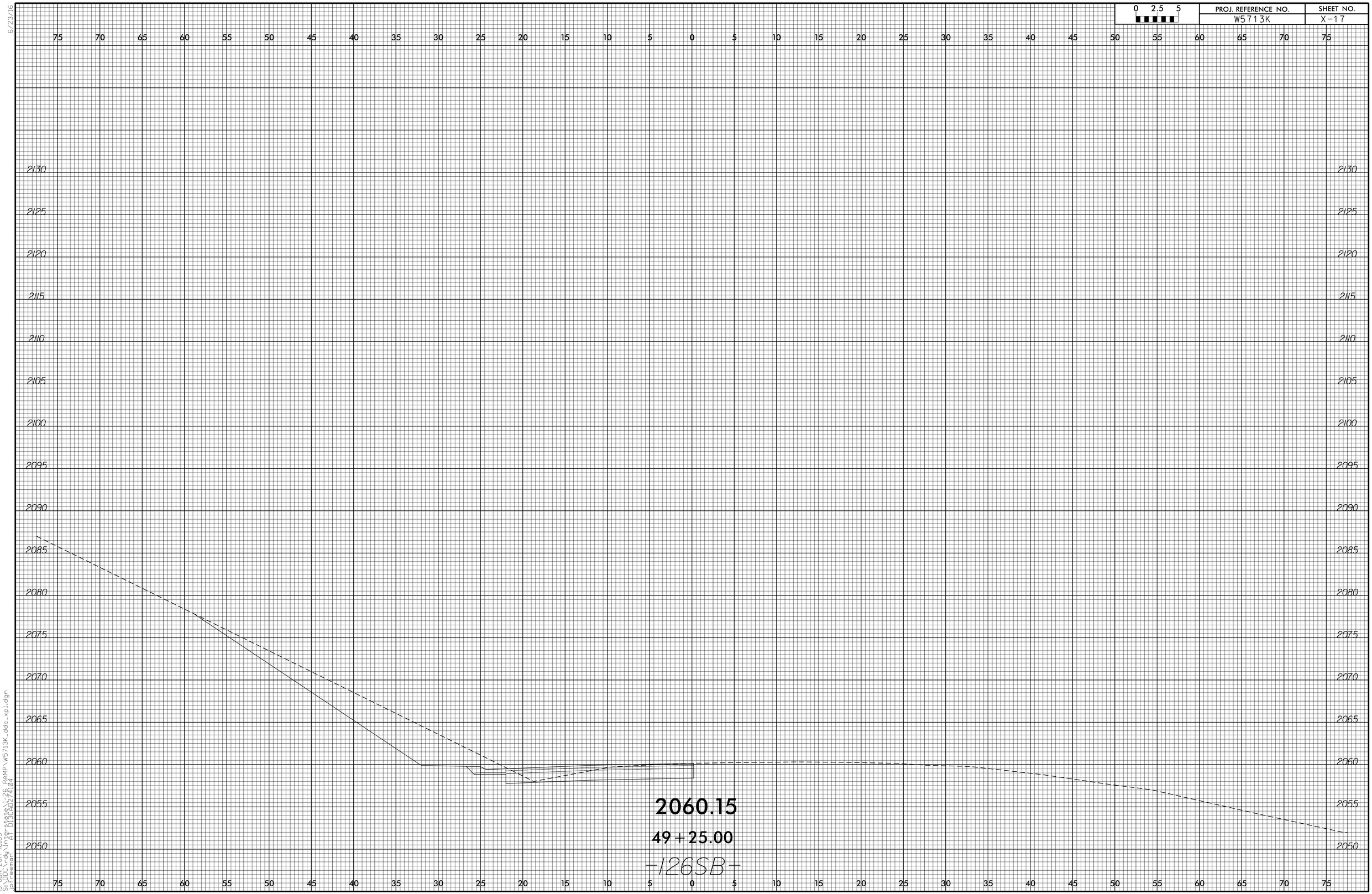

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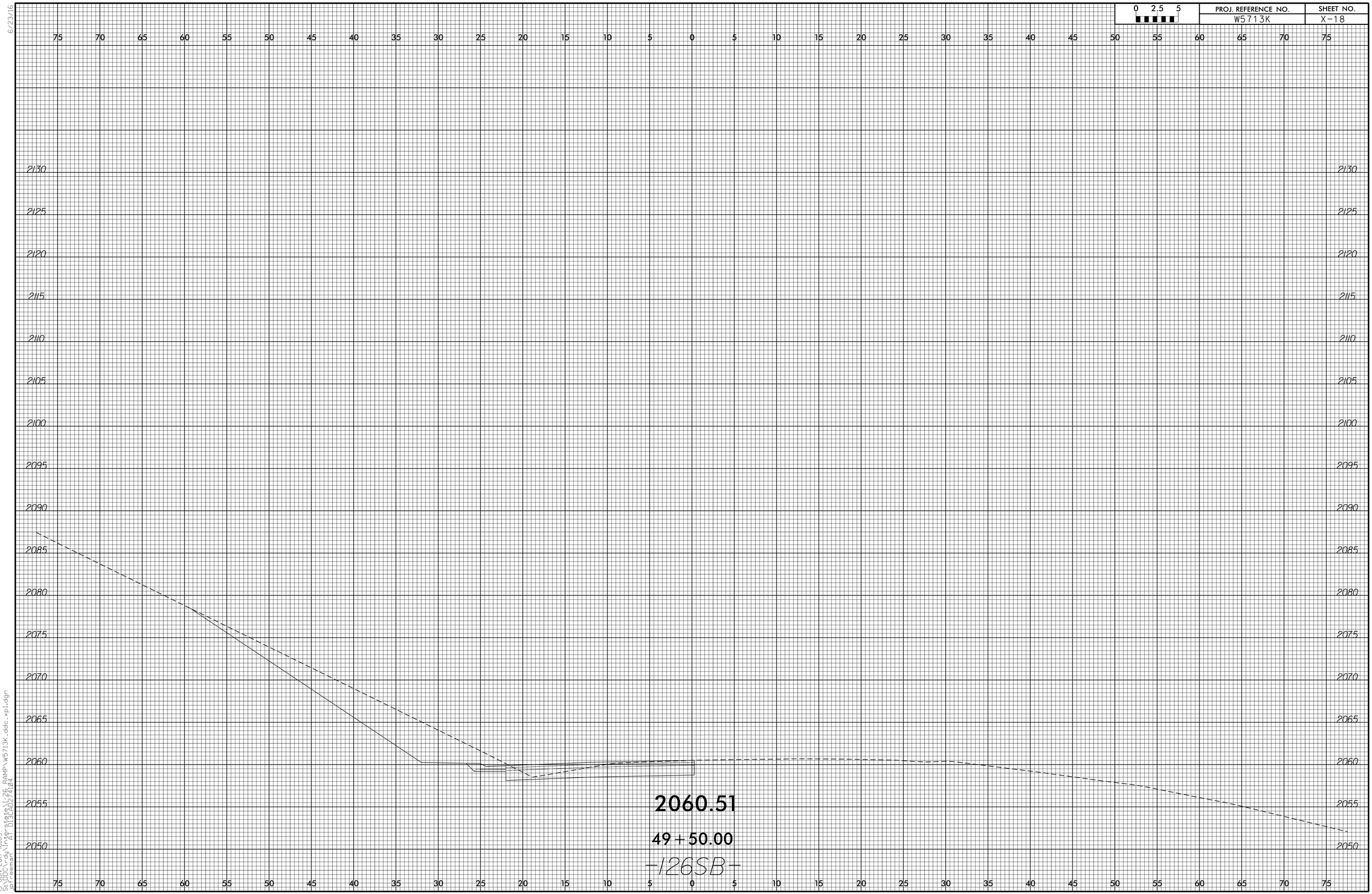

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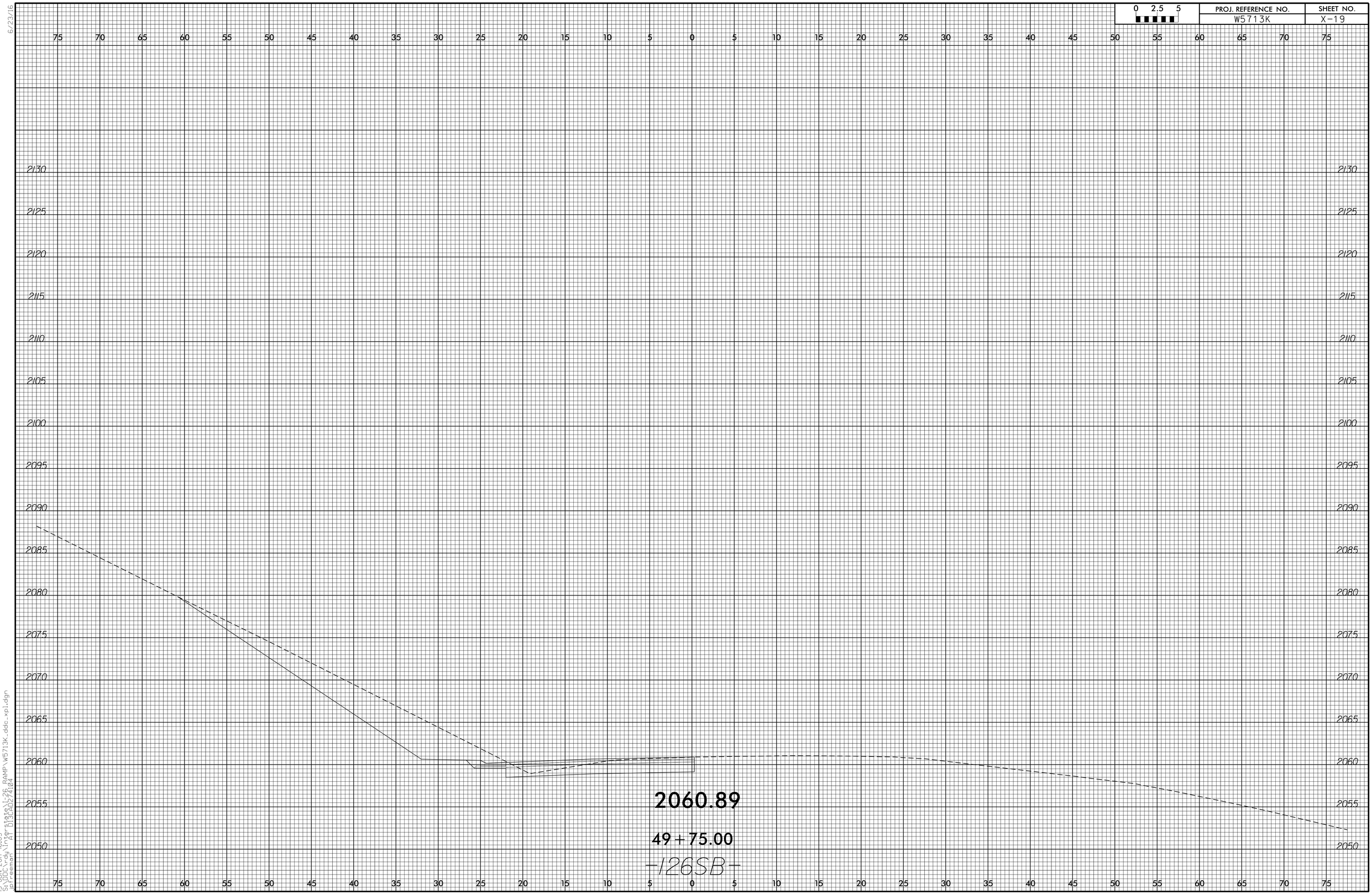

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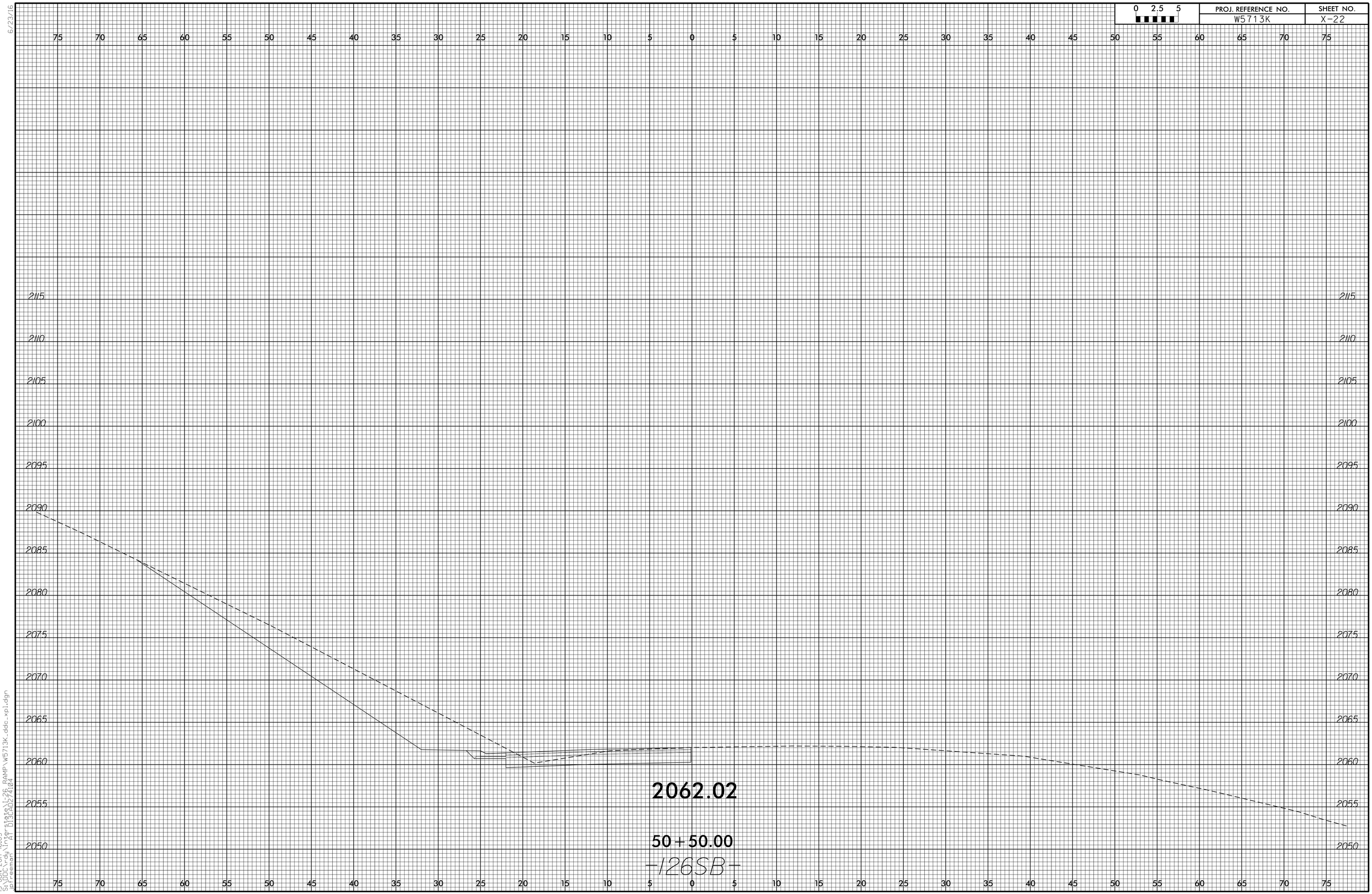

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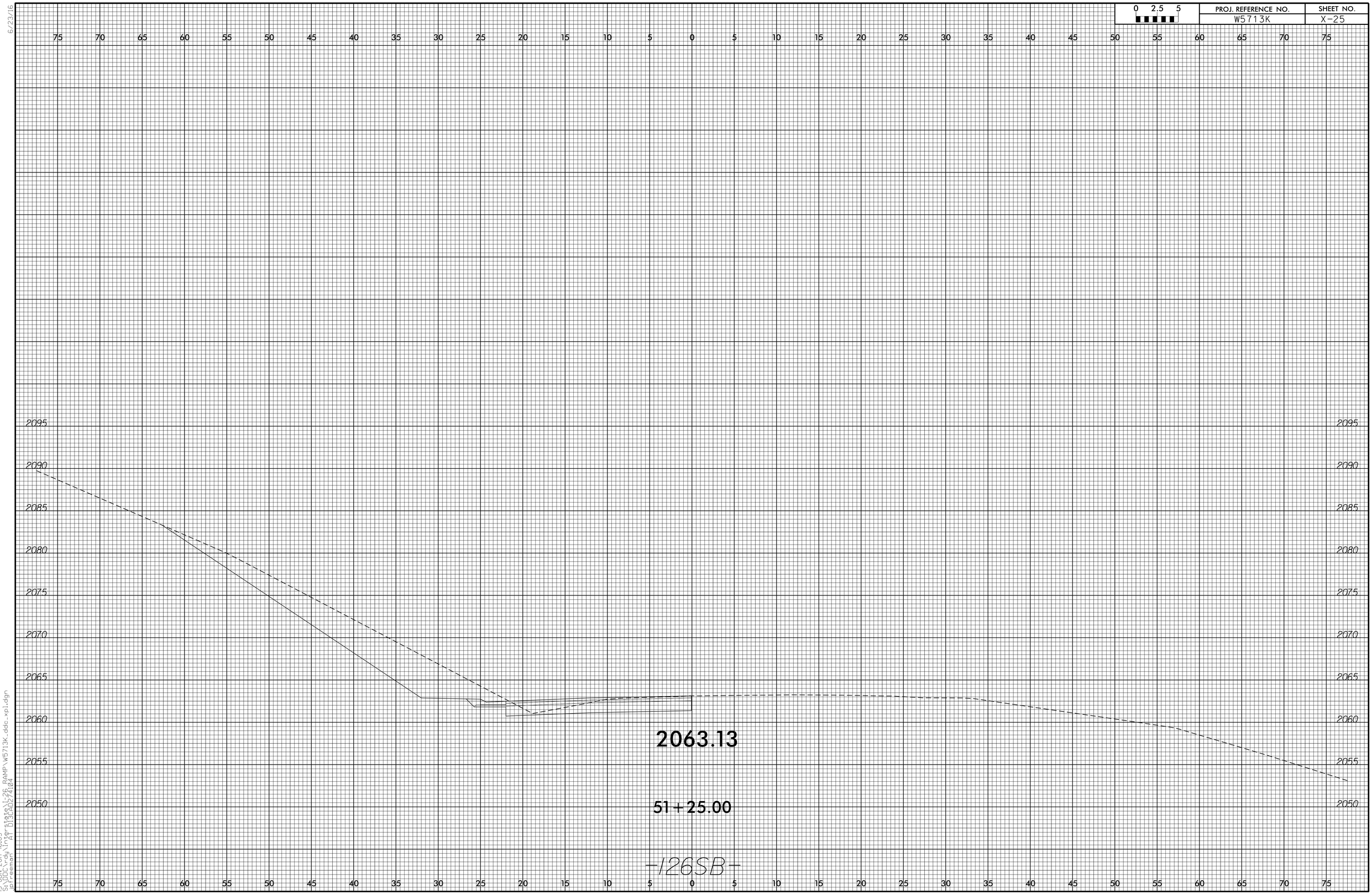

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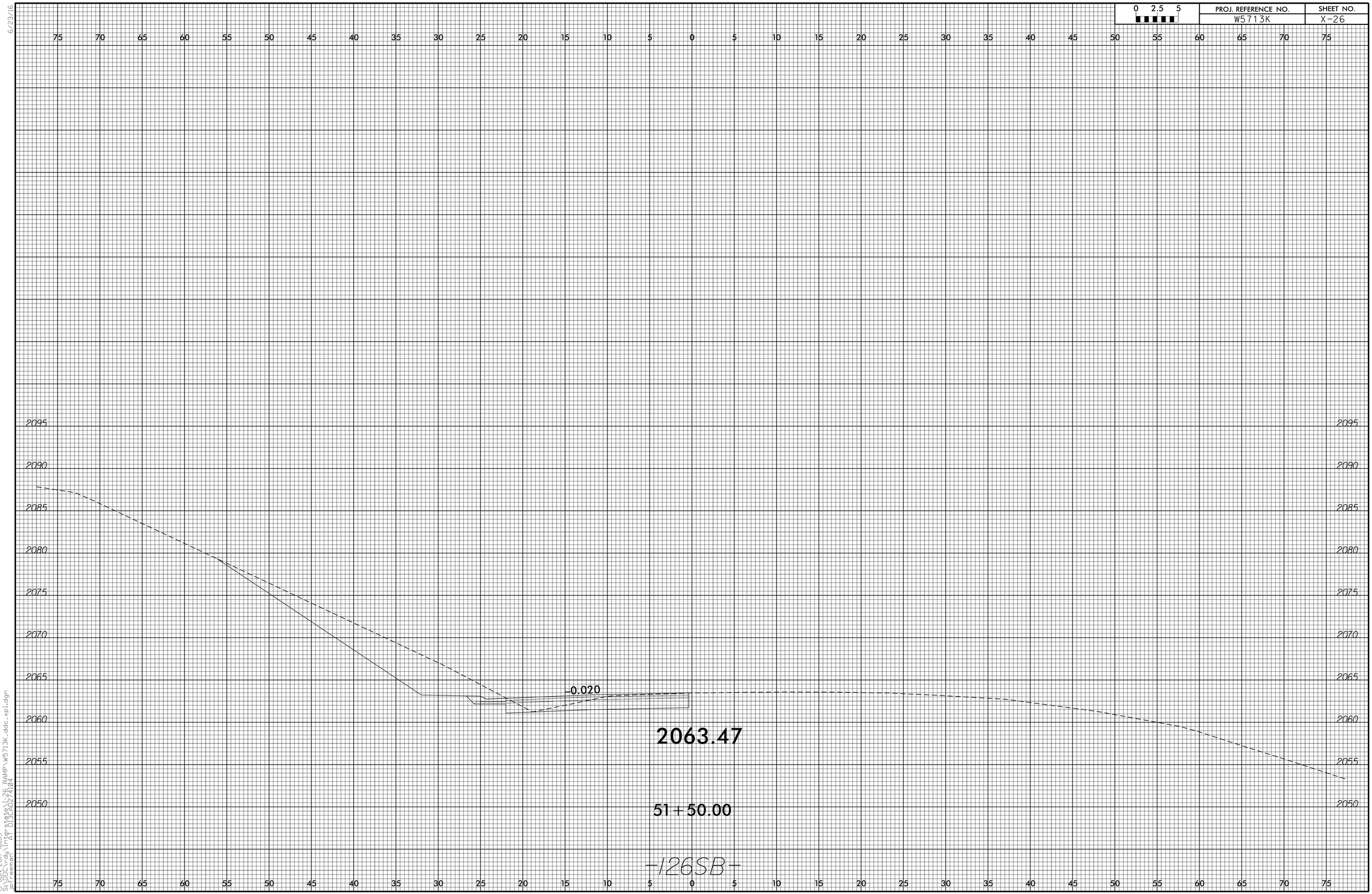

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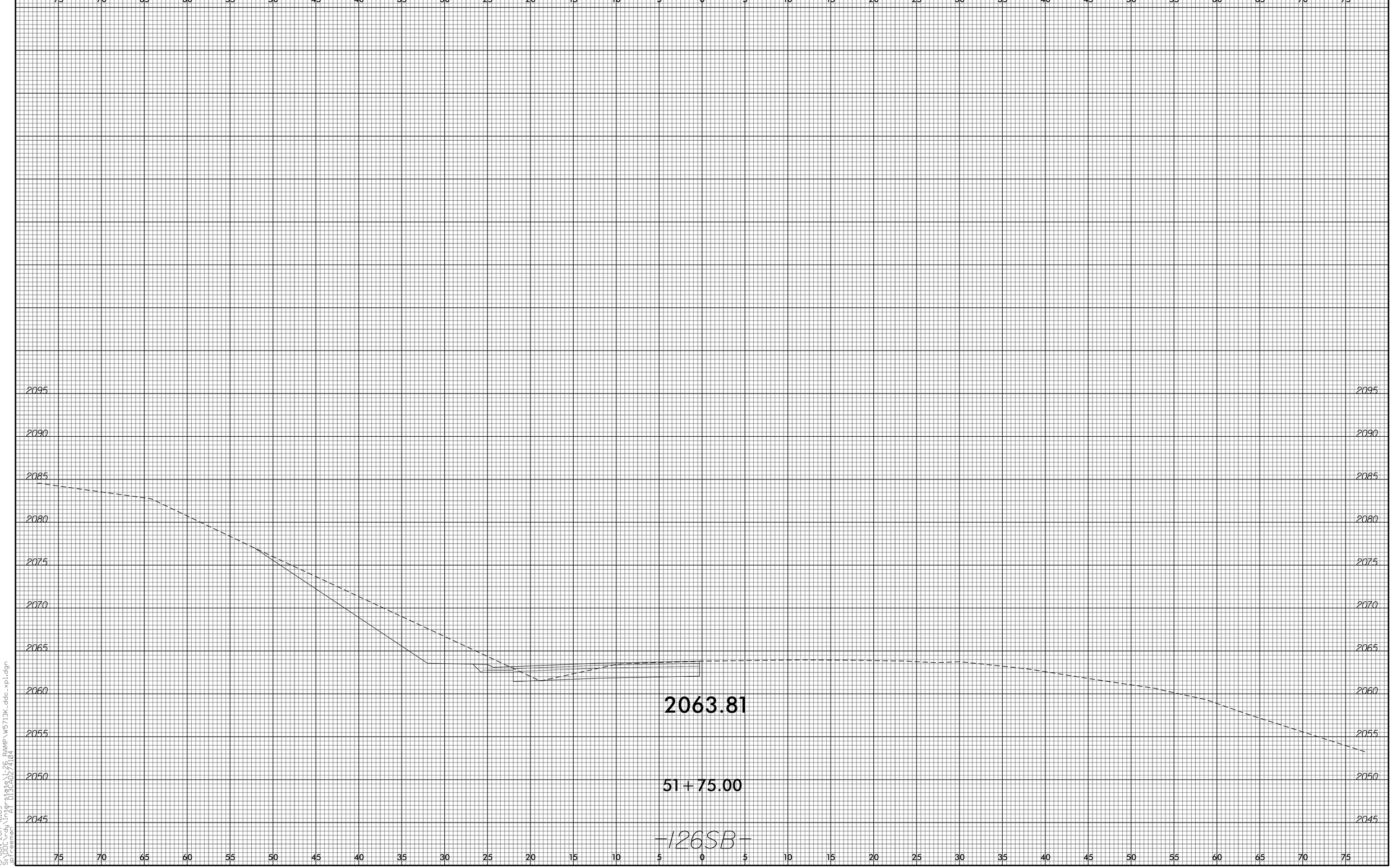

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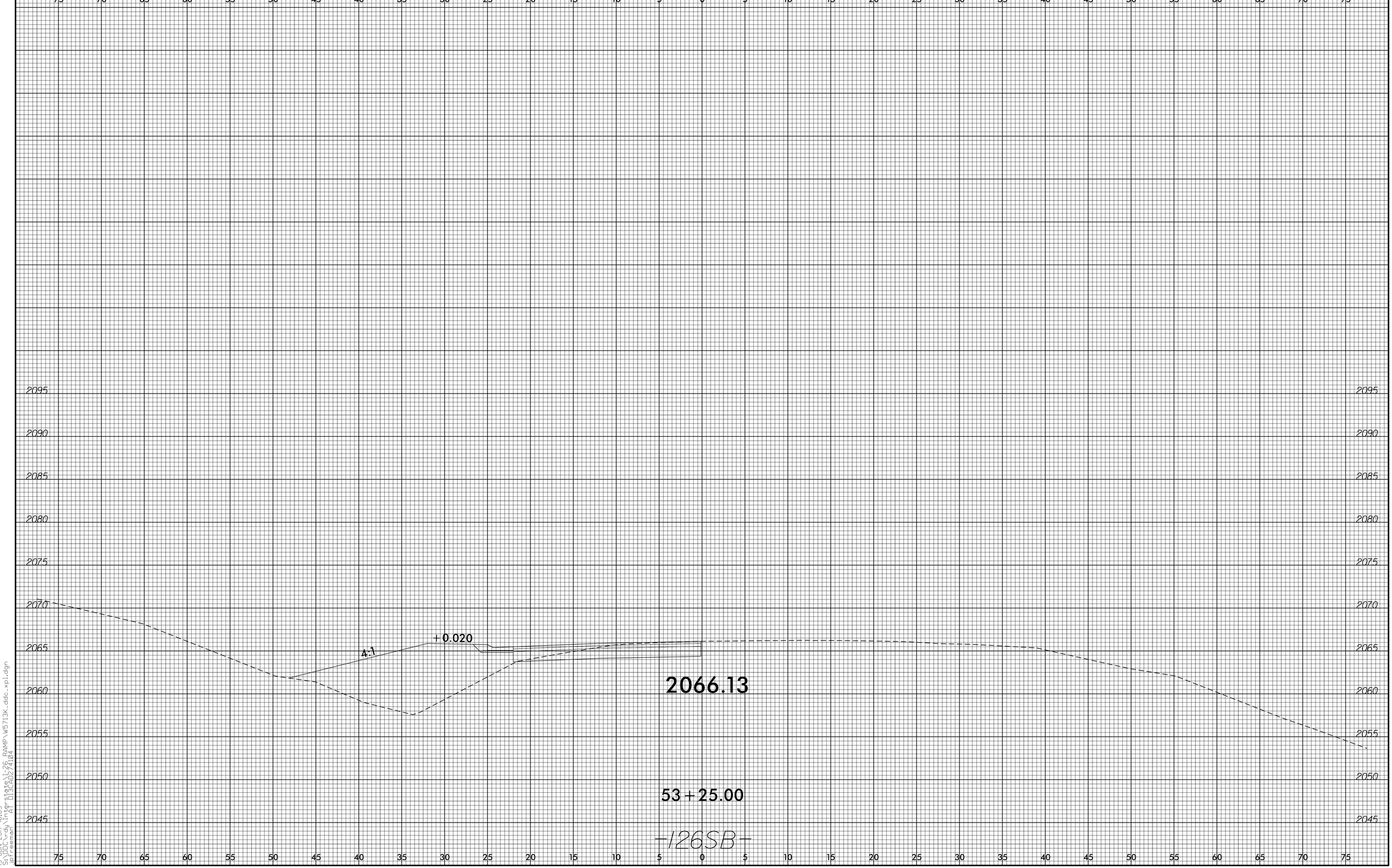

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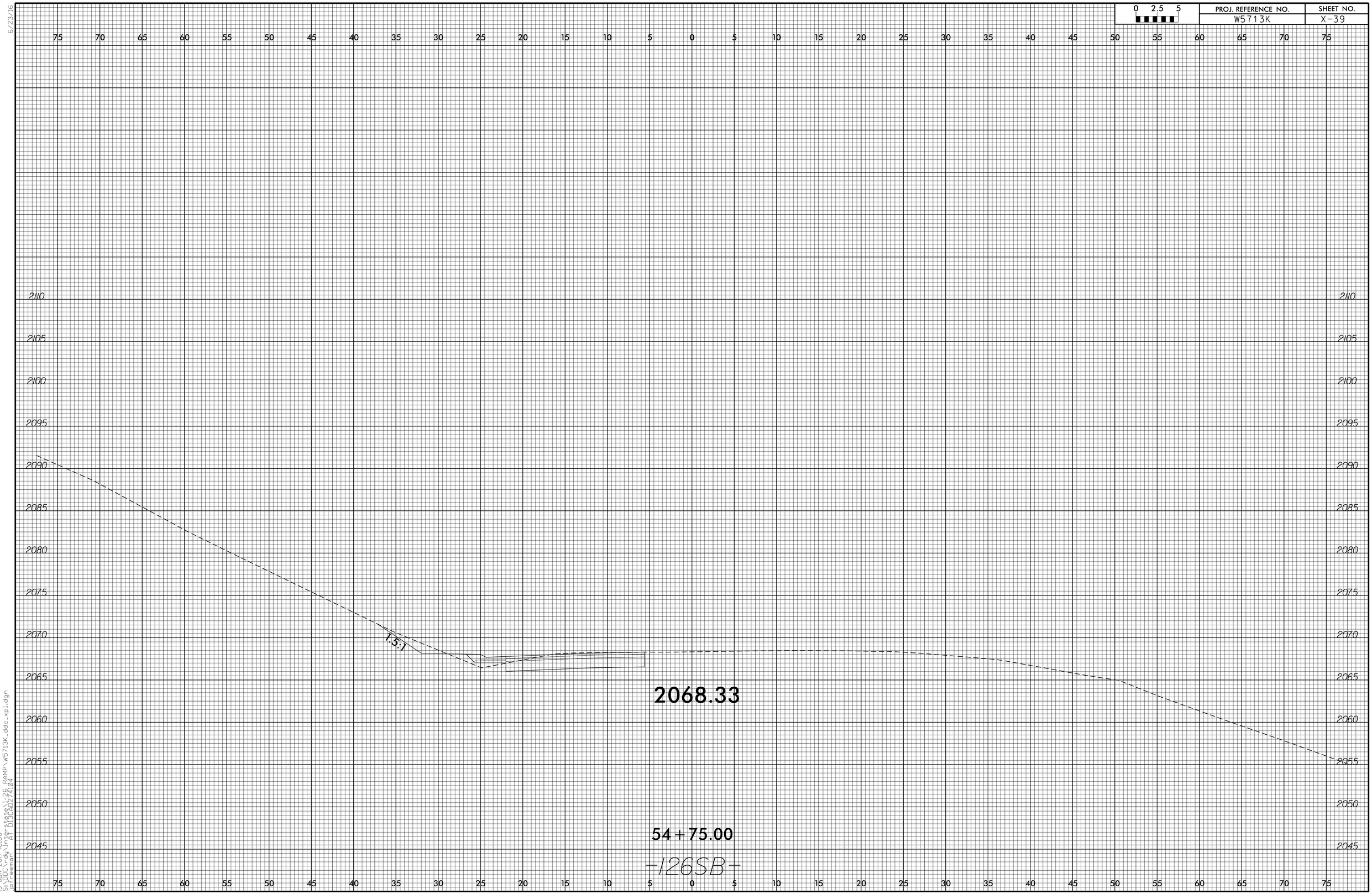

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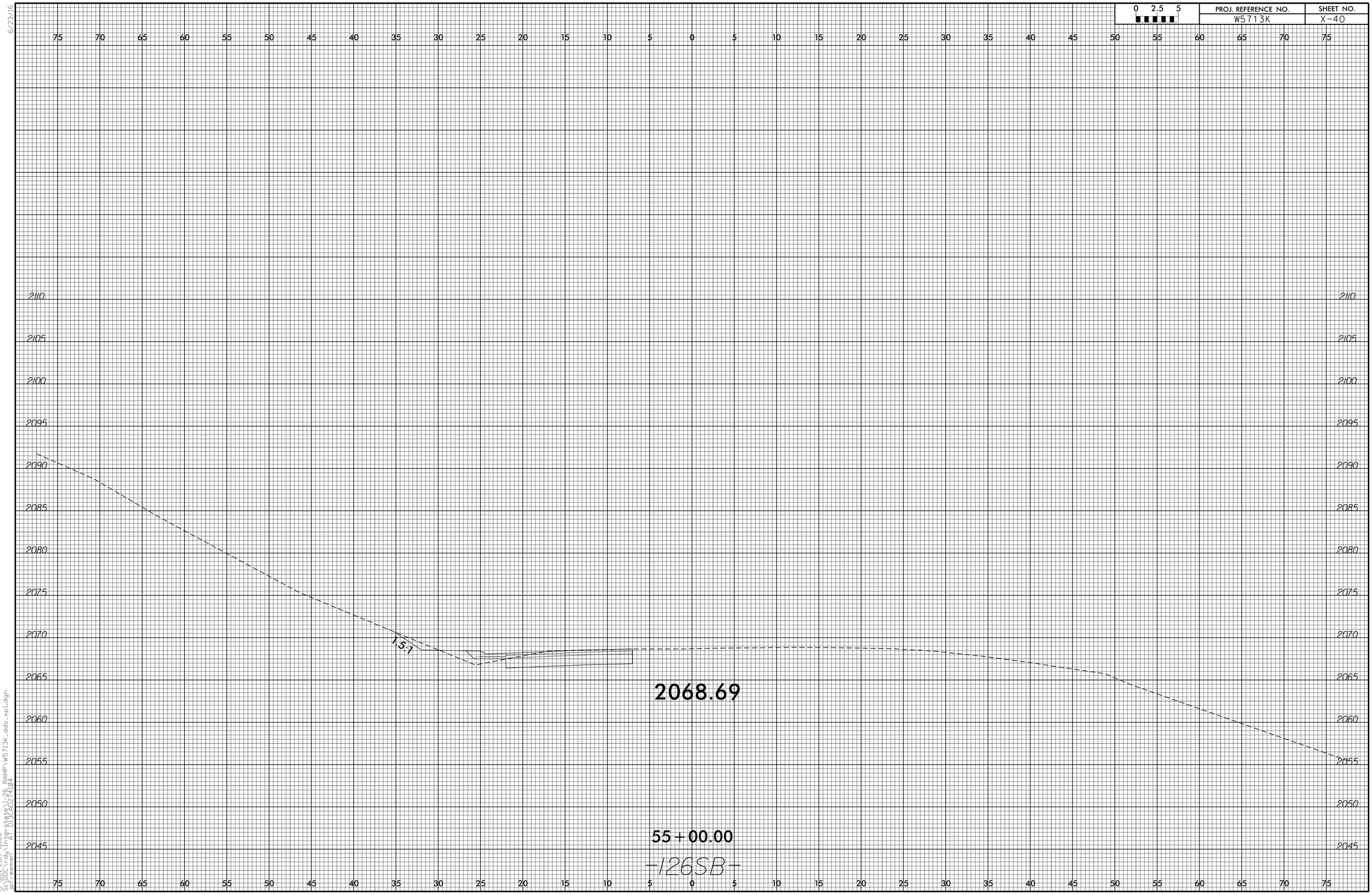

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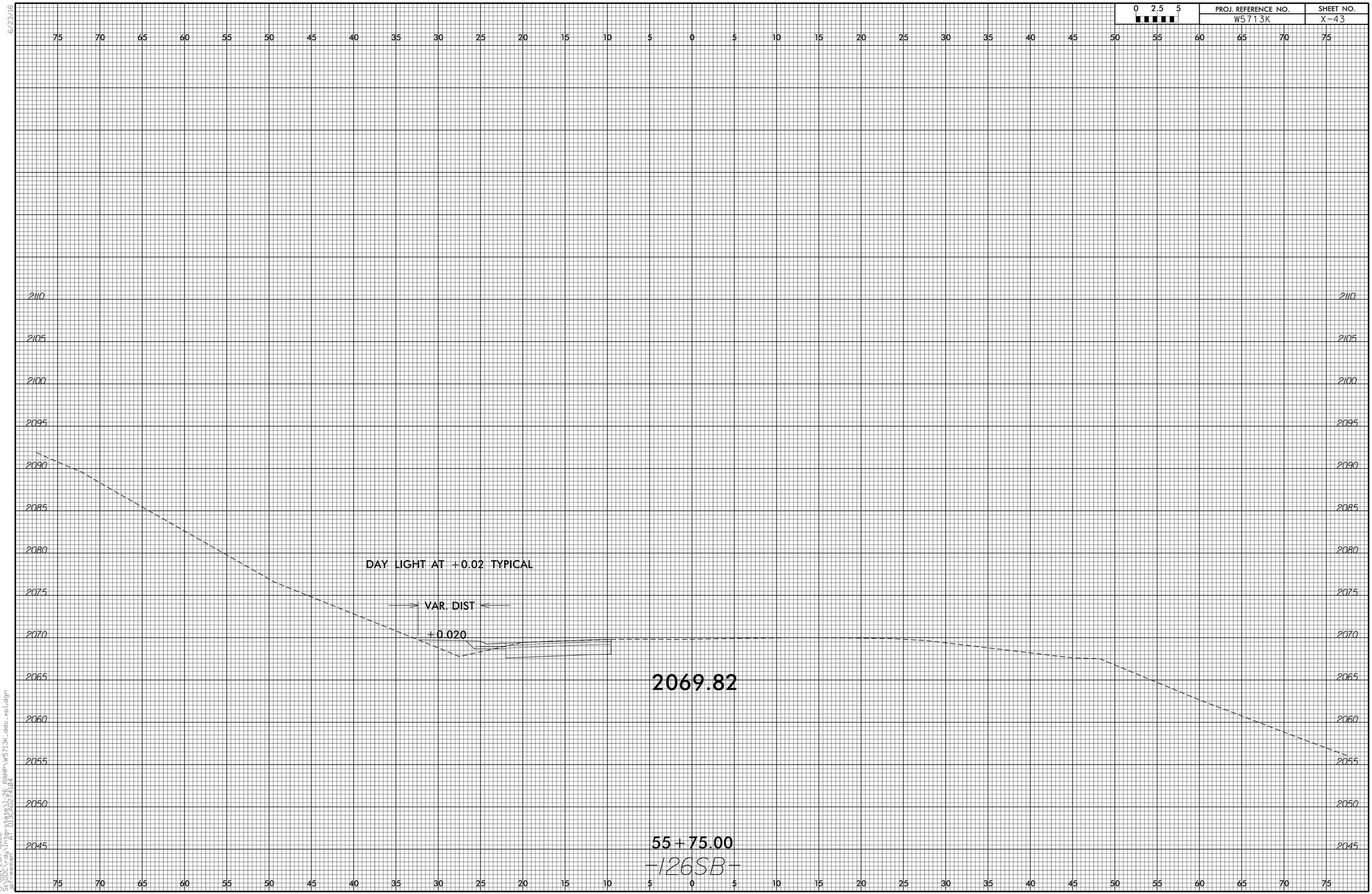

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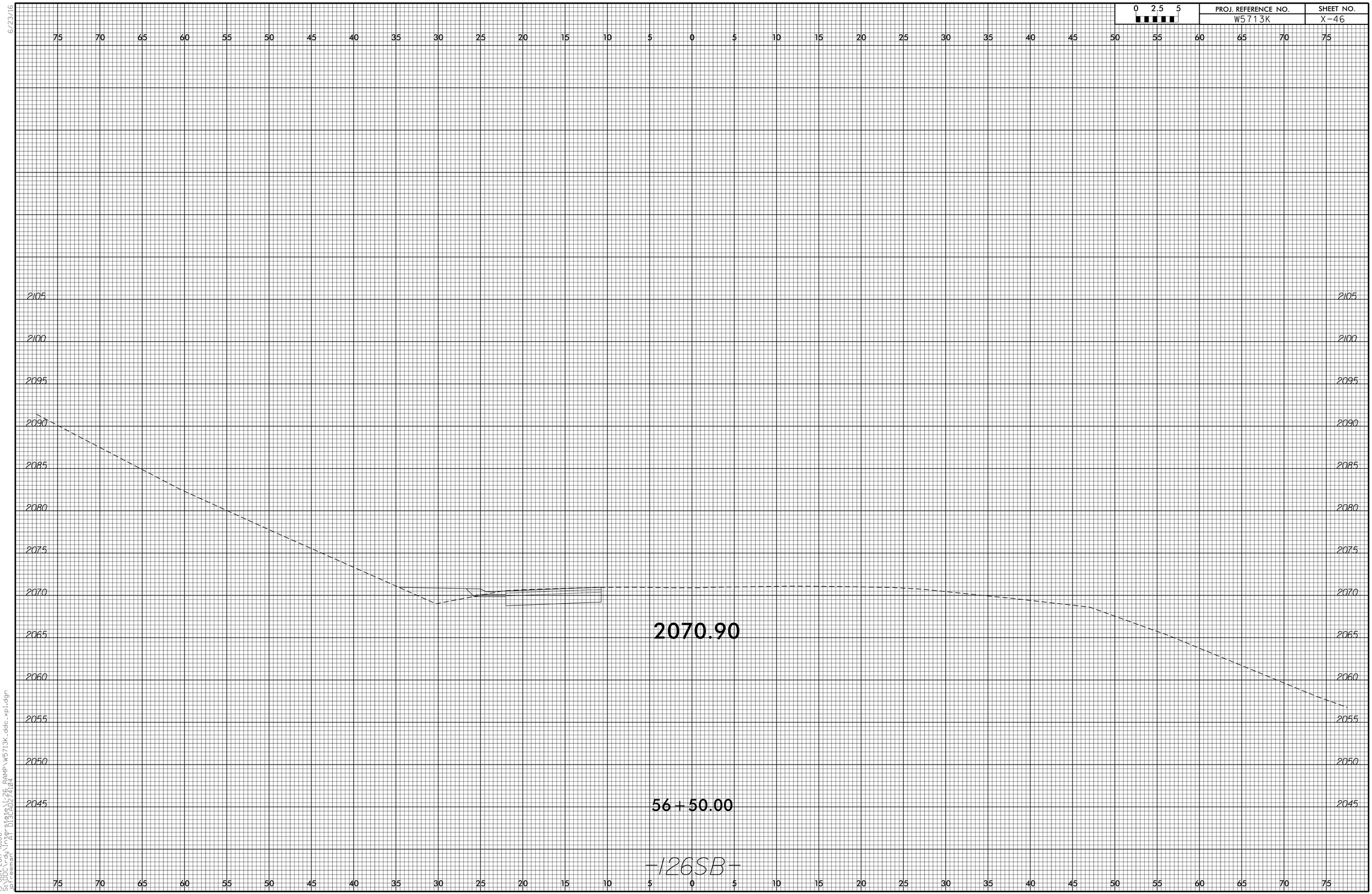

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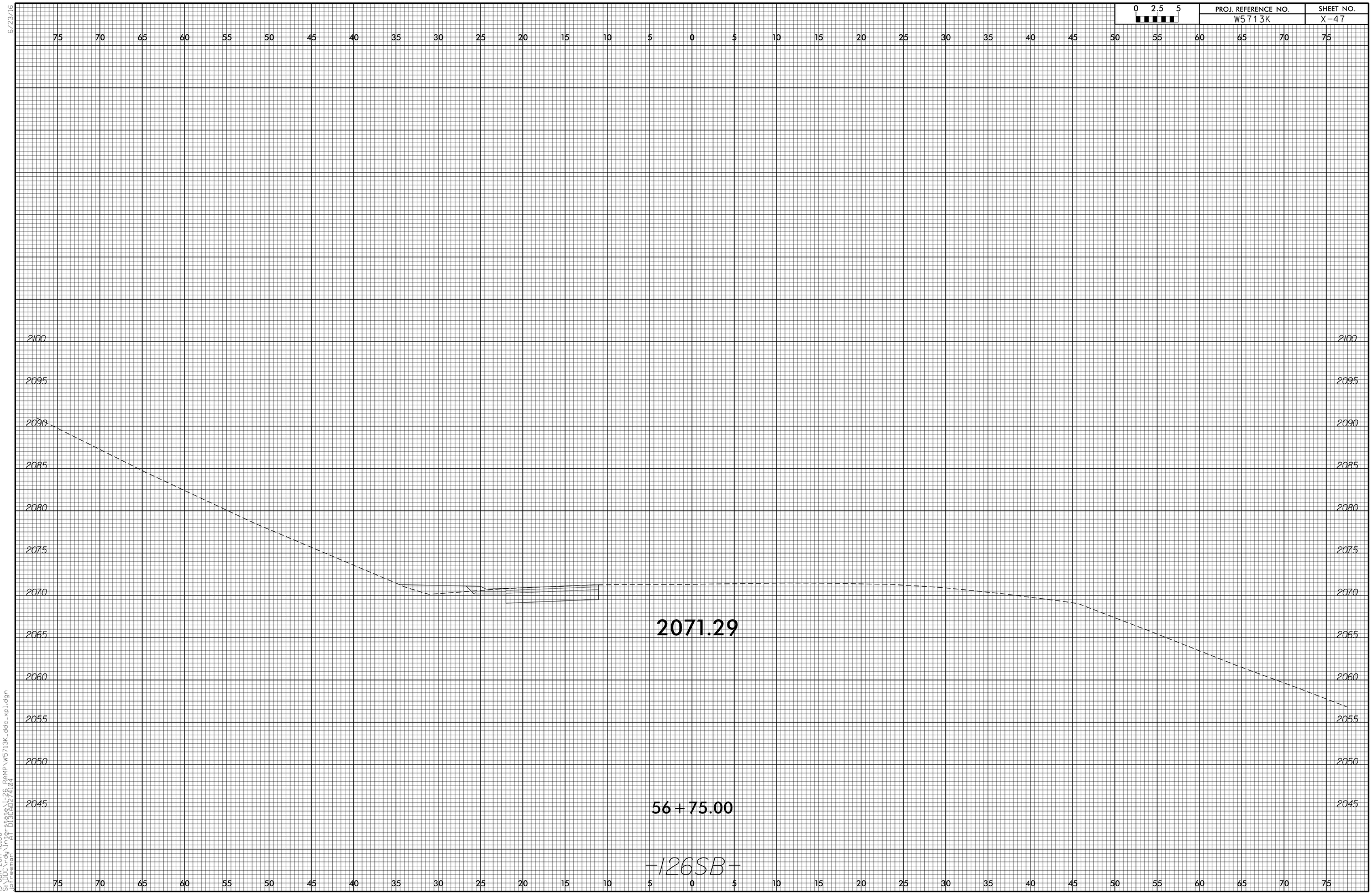

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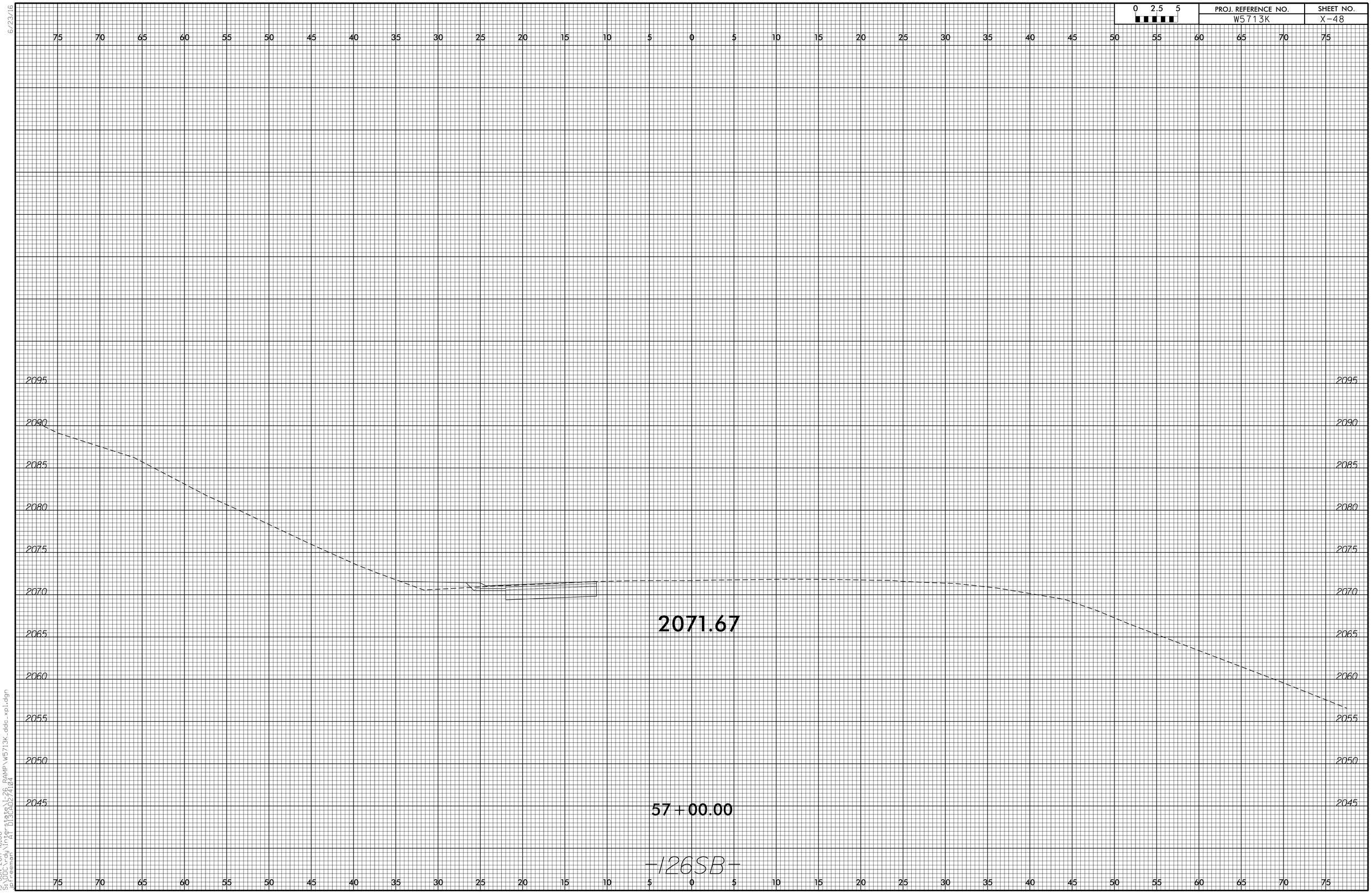

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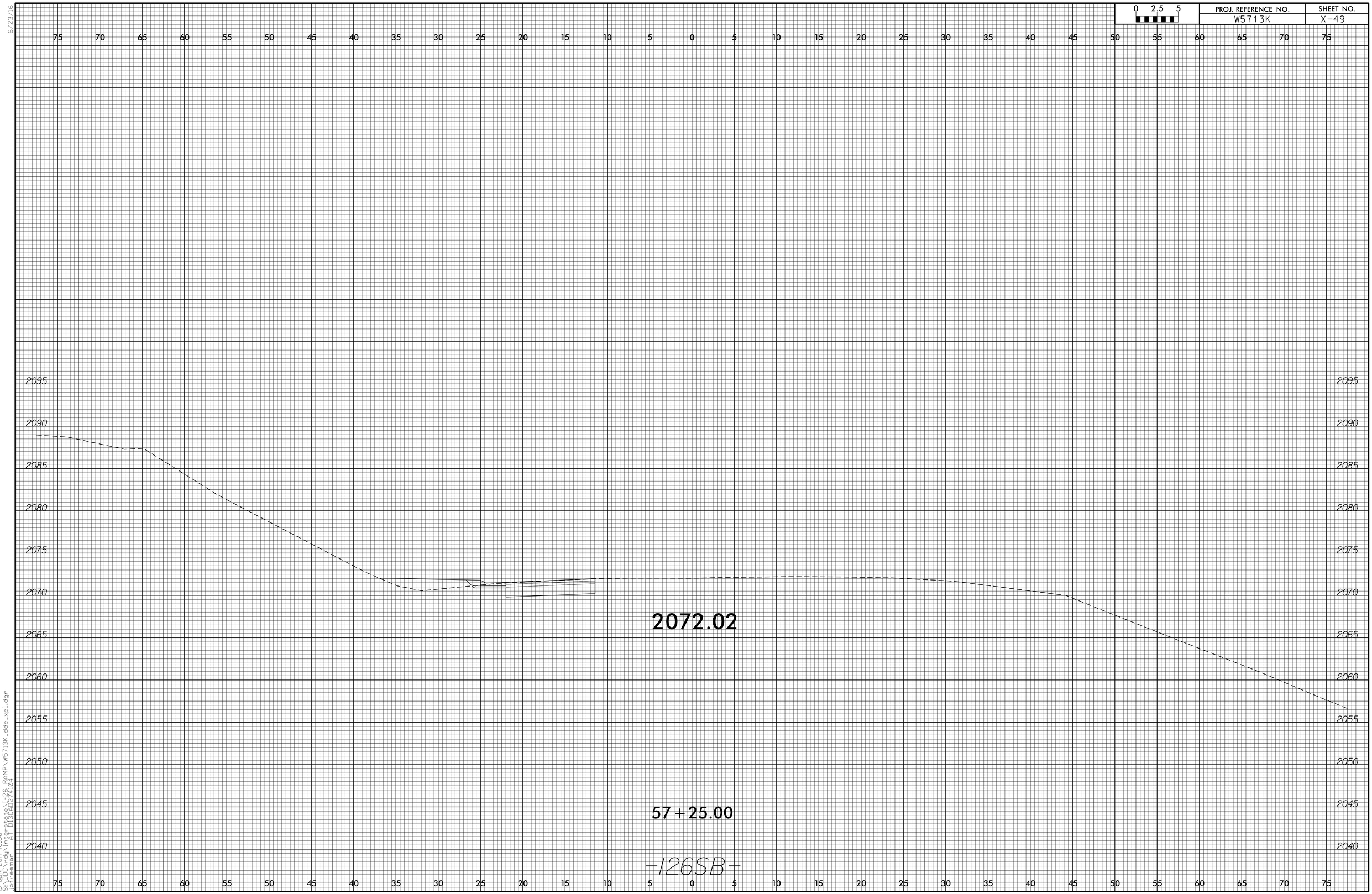

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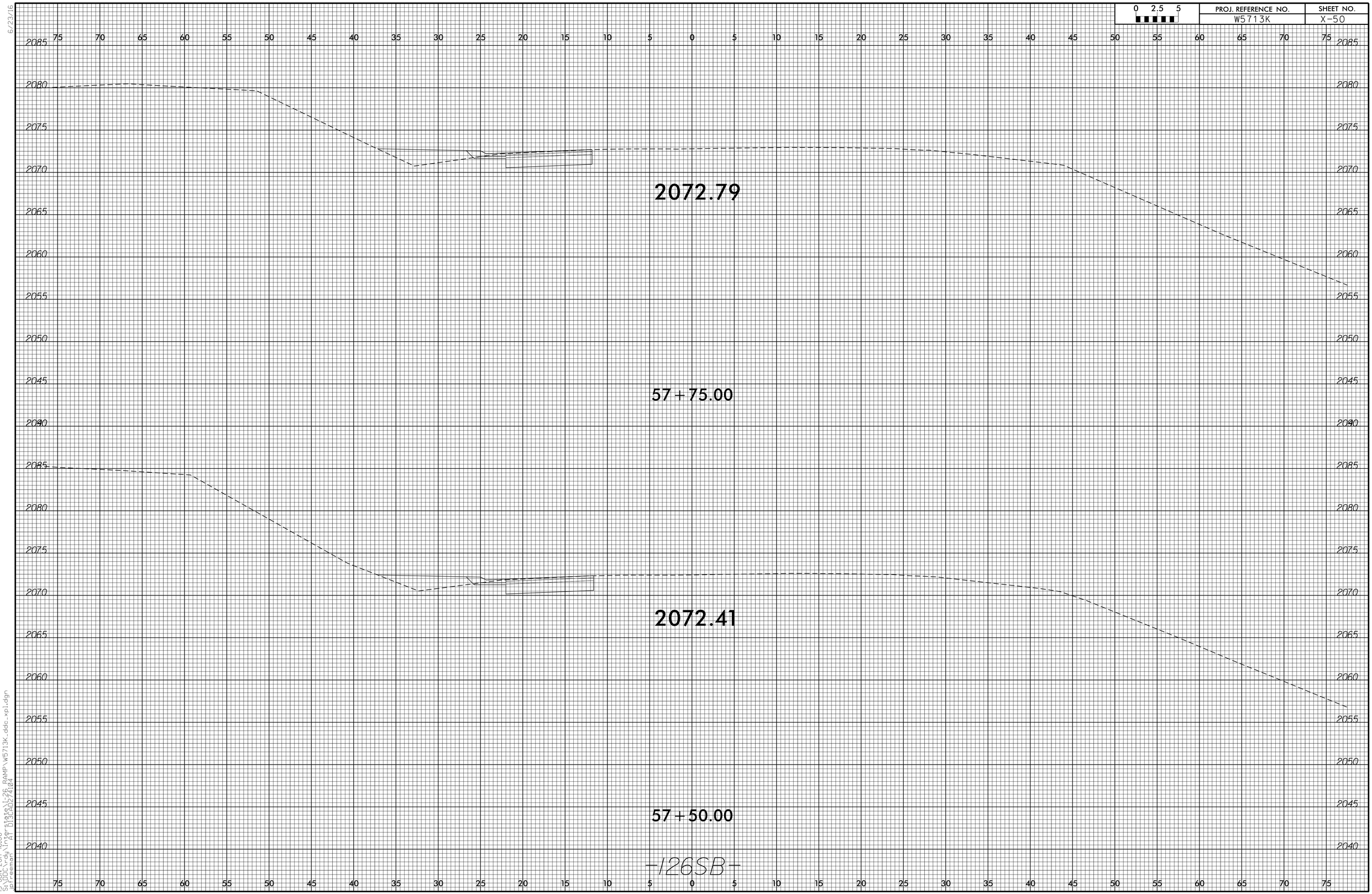

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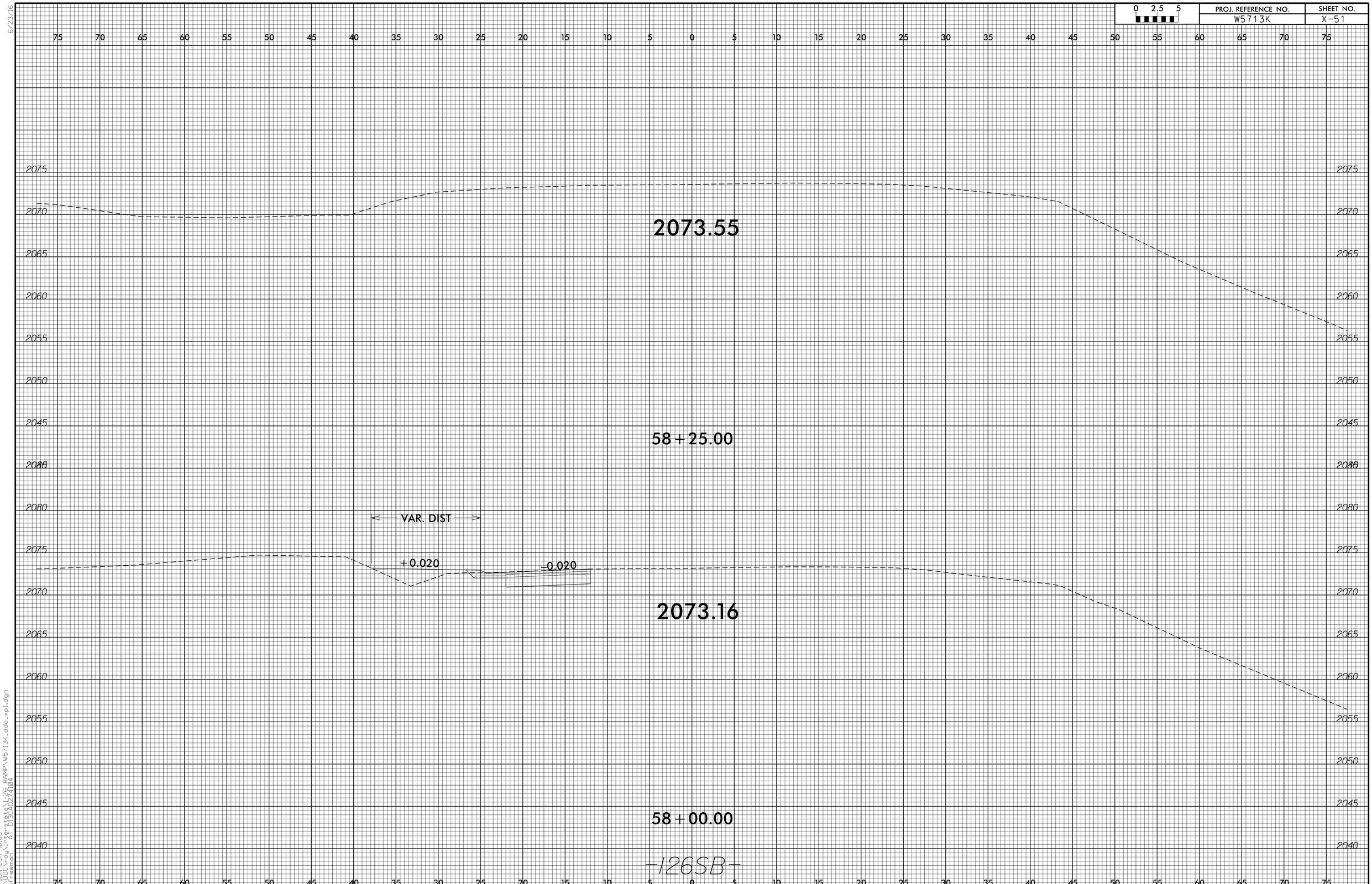

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