



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

August 11, 2014

U.S. Army Corps of Engineers
Wilmington District Office
69 Darlington Avenue
Wilmington, NC 28403

ATTN: Ms. Liz Hair
NCDOT Division 8 Project Coordinator

SUBJECT: **Application for Section 404 Nationwide Permit Number 23 and Section 401 Water Quality Certification** for the replacement of Bridge No. 136 over US 29-70/I-85 Business on SR 1619 (Prospect Street), Randolph County, North Carolina. Federal Aid Project No. BRZ-1619(5), TIP No. B-5114.

Debit \$240.00 from WBS Element No. 42252.1.1

Please find enclosed the Pre-Construction Notification (PCN), NCEEP acceptance letter, Preliminary Jurisdictional Determination (JD), Stormwater Management Plan, permit drawings, and roadway design plans for the subject project. A Categorical Exclusion (CE) was completed for this project in June 2013.

The proposed let date for this project is June 16, 2015, with a let review date of April 28, 2015. However, the let date may advance as additional funds become available.

A copy of this permit application will be posted on the NCDOT Website at <https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx>, under *Quick Links > Permit Applications*. A copy of the CE is also available at the above website address under *Quick Links > Environmental Documents*. Thank you for your assistance with this project. If you have any questions or need additional information, please contact Greg Price at either gwprice@ncdot.gov or (919) 707-6148.

Sincerely,

for

Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit

cc: NCDOT Permit Application Standard Distribution List

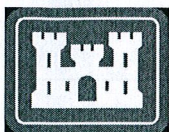
MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
NATURAL ENVIRONMENT SECTION
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6100

FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

PHYSICAL ADDRESS:
Century Center - Building B
1020 Birch Ridge Dr
Raleigh, NC 27610-4328



Office Use Only:
Corps action ID no. _____
DWQ project no. _____
Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:

☒ Section 404 Permit ☐ Section 10 Permit

1b. Specify Nationwide Permit (NWP) number: 23 or General Permit (GP) number:

1c. Has the NWP or GP number been verified by the Corps?

☐ Yes ☒ No

1d. Type(s) of approval sought from the DWQ (check all that apply):

☒ 401 Water Quality Certification – Regular ☐ Non-404 Jurisdictional General Permit
☐ 401 Water Quality Certification – Express ☐ Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?

For the record only for DWQ 401 Certification:

☐ Yes ☒ No

For the record only for Corps Permit:

☐ Yes ☒ No

1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.

☒ Yes ☐ No

1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.

☐ Yes ☒ No

1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?

☐ Yes ☒ No

2. Project Information

2a. Name of project:

Replacement of Bridge No. 136 on SR 1619 over US-29-70/I-85 Business

2b. County:

Randolph

2c. Nearest municipality / town:

High Point

2d. Subdivision name:

not applicable

2e. NCDOT only, T.I.P. or state project no:

B-5114

3. Owner Information

3a. Name(s) on Recorded Deed:

North Carolina Department of Transportation

3b. Deed Book and Page No.

not applicable

3c. Responsible Party (for LLC if applicable):

not applicable

3d. Street address:

1598 Mail Service Center

3e. City, state, zip:

Raleigh, NC 27699-1598

3f. Telephone no.:

(919) 707-6148

3g. Fax no.:

(919) 212-5785

3h. Email address:

gwprice@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	☐ Agent ☐ Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.915777 Longitude: - 80.030289 (DD.DDDDDD) (-DD.DDDDDD)
1c. Property size:	6.0 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	UT to Uwharrie River
2b. Water Quality Classification of nearest receiving water:	WS-III
2c. River basin:	Yadkin
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Land use in the project vicinity is primarily industrial and commercial.	
3b. List the total estimated acreage of all existing wetlands on the property:	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 220 linear feet	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 4-span 241-foot bridge with a 280-foot bridge, providing a 48-foot clear deck width, on/near the existing bridge location with an offsite detour. The associated interchange will also be improved. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: 2 intermittent streams	☒ Yes ☐ No ☐ Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	☒ Preliminary ☐ Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Jens Geratz and Matthew DeWitt	Agency/Consultant Company: PBS&J (now Atkins) Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. March 1, 2010.	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes ☒ No ☐ Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	☐ Yes ☒ No
6b. If yes, explain.	

C. Proposed Impacts Inventory**1. Impacts Summary**

1a. Which sections were completed below for your project (check all that apply):

- ☐ Wetlands ☒ Streams - tributaries ☐ Buffers
☐ Open Waters ☐ Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
☐ P ☐ T	I		☐ Yes ☐ No	☐ Corps ☐ DWQ	
☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
2g. Total wetland impacts					

2h. Comments:

3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 ☒ P ☒ T	Fill	UT to Uwharrie River	☐ PER ☒ INT	☒ Corps ☐ DWQ		53 P 10 T
Site 2 ☒ P ☐ T	Fill	UT to Uwharrie River	☐ PER ☒ INT	☒ Corps ☐ DWQ		113 P
Site 3 ☒ P ☒ T	Fill	UT to Uwharrie River	☐ PER ☒ INT	☒ Corps ☐ DWQ		36 P 8 T
☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
3h. Total stream and tributary impacts						202 Perm 18 Temp

3i. Comments:

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 ☐ P ☐ T				
O2 ☐ P ☐ T				
O3 ☐ P ☐ T				
O4 ☐ P ☐ T				
4f. Total open water impacts				

4g. Comments:

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								

5g. Comments:

5h. Is a dam high hazard permit required?	☐ Yes ☐ No If yes, permit ID no:
5i. Expected pond surface area (acres):	
5j. Size of pond watershed (acres):	
5k. Method of construction:	

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			☐ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	☐ Other: Jordan
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
☐ P ☐ T			☐ Yes ☐ No		
☐ P ☐ T			☐ Yes ☐ No		
☐ P ☐ T			☐ Yes ☐ No		
6h. Total buffer impacts					
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. An offsite detour will be used. It was determined that a box culvert was the right option because of the impacts to wetlands, relocating transmission lines and towers and the cost associated with these impacts compared to a bridge option. Also please see the attached Stormwater Management Plans.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT will use Best Management Practices for Bridge Demolition and Removal as well as Best Management Practices for the Protection of Surface Waters.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☒ Yes ☐ No If no, explain:	
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☒ Corps	
2c. If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☒ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	☒ Yes	
4b. Stream mitigation requested:	202 linear feet at 1:1 ratio = 202 linear feet	
4c. If using stream mitigation, stream temperature:	☒ warm ☐ cool ☐ cold	
4d. Buffer mitigation requested (DWQ only):		
4e. Riparian wetland mitigation requested:		
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?

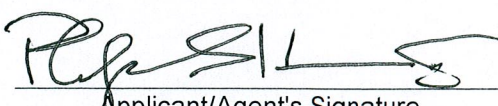
☐ Yes☒ No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.

Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).				
6h. Comments:				

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	☐ Yes ☒ No
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments:	☐ Yes ☐ No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	☒ Yes ☐ No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	☐ Certified Local Government ☐ DWQ Stormwater Program ☒ DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	☐ Coastal counties ☐ HWQ ☐ ORW ☐ Session Law 2006-246 ☐ Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No N/A
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☒ Yes ☐ No
5b. Have all of the 401 Unit submittal requirements been met?	☒ Yes ☐ No

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	☒ Yes ☐ No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	☒ Yes ☐ No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments:	☒ Yes ☐ No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes ☒ No
2b. Is this an after-the-fact permit application?	☐ Yes ☒ No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes ☒ No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	☒ Yes	☐ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☒ Yes	☐ No
5c. If yes, indicate the USFWS Field Office you have contacted.	☒ Raleigh ☐ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NC Natural Heritage Program data, USFWS website, NCDOT field surveys		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☐ Yes	☒ No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	☐ Yes	☒ No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	☒ Yes	☐ No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
 Richard W. Hancock, P.E. Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	8/11/2014 Date



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Michael Ellison, Director
Ecosystem Enhancement Program

John E. Skvarla, III
Secretary

August 8, 2014

Mr. Richard W. Hancock, P.E.
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Mr. Hancock:

Subject: EEP Mitigation Acceptance Letter:

B-5114, Replace Bridge Number 138 over US 29 / 70 / I-85 Business on SR 1619, Randolph County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory stream mitigation for the subject project. Based on the information supplied by you on July 31, 2014, the impacts are located in CU 03040103 of the Yadkin River basin in the Central Piedmont (CP) Eco-Region, and are as follows:

Yadkin 03040103 CP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	202.0	0	0	0	0	0

*Some of the stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

This impact and associated mitigation need were under projected by the NCDOT in the 2014 impact data. EEP will commit to implement sufficient compensatory stream mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the N.C. Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

James B. Stanfill
EEP Asset Management Supervisor

cc: Ms. Liz Hair, USACE – Wilmington Regulatory Field Office
Mr. David Wainwright, NCDWQ – Raleigh Office
Ms. Linda Fitzpatrick, NCDOT – PDEA
File: B-5114

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):** March 1, 2010
- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:**
Jim Hauser, Ph.D., NCDOT – NEU, 1598 Mail Service Center, Raleigh,
NC 27699-1598
- C. DISTRICT OFFICE, FILE NAME, AND NUMBER:** SAW-2009-00575
(NCDOT/B-5114/BR 136/Div 8)
- D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:** B-5114
Replace Bridge No 136 over US 29/US 70/I-85 BUS on SR 1619

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough Randolph City: High Point
Center coordinates of site (lat/long in degree decimal format):
Lat 35.916172 ° N, Long. -80.029625 ° W Universal Transverse Mercator:
Name of nearest waterbody Uwharrie River

Identify (estimate) amount of waters in the review area.

Non-wetland waters: 380 linear feet: 3-6 width (ft) and/or ____ acres.

Cowardin Class: Riverine

Stream Flow: 290 feet perennial, 90 feet intermittent

Wetlands 0 acre

Cowardin Class: --

Name of any water bodies on the site that have been identified as Section 10 waters.

Tidal N/A

Non-Tidal N/A

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

- ☒ Office (Desk) Determination Date March 1, 2010
☒ Field Determination Date(s) by Richard Spencer

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply

- checked items should be included in case file and, where checked and requested, appropriately reference sources below)

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant NCDOT

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

☐ Office concurs with data sheets/delineation report.

☐ Office does not concur with data sheets/delineation report

☐ Data sheets prepared by the Corps:

☐ Corps navigable waters' study

☐ U S Geological Survey Hydrologic Atlas 03040103

☐ USGS NHD data.

☐ USGS 8 and 12 digit HUC maps

☒ U S Geological Survey map(s) Cite scale & quad name: High Point West.

☐ USDA Natural Resources Conservation Service Soil Survey Citation:

Randolph County

☐ National wetlands inventory map(s) Cite name

☐ State/Local wetland inventory map(s):

☐ FEMA/FIRM maps:

☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

☒ Photographs ☒ Aerial (Name & Date): Figure 3 (NAIP Randolph County SID_2006)

or ☒ Other (Name & Date): Figure 1 – Project Vicinity Map .

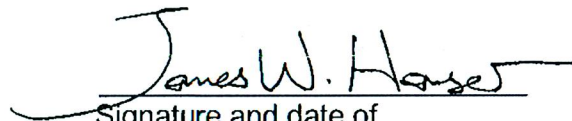
☐ Previous determination(s) File no and date of response letter: .

☐ Other information (please specify): .

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.



Signature and date of
Regulatory Project Manager
(REQUIRED)



Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS					
(Version 2; Released April 2014)							
WBS Element: 42252.1.1		TIP No.: B-5114		County(ies): Randolph		Page 1 of 1	
General Project Information							
WBS Element: 42252.1.1		TIP Number: B-5114		Project Type: Bridge Replacement		Date: 7/8/2014	
NCDOT Contact:		Ray Lovinggood, PE		Contractor / Designer:		Mike Kelly	
Address:		1020 Birch Ridge Dr. Raleigh, N.C. 27610		Address:		1020 Birch Ridge Dr. Raleigh, N.C. 27610	
Phone:		919.707.6736		Phone:		919.707.6731	
Email:		rlovinggood@ncdot.gov		Email:		mkelly@ncdot.gov	
City/Town:		High Point, NC		County(ies):		Randolph	
River Basin(s):		Yadkin-Pee Dee		CAMA County?		No	
Wetlands within Project Limits?		No					
Project Description							
Project Length (lin. miles or feet):		0.316 MI		Surrounding Land Use:		Commerical	
		Proposed Project		Existing Site			
Project Built-Up Area (ac.):		3.5 ac.		2.5 ac.			
Typical Cross Section Description:		Two 12' travel lanes w/12' center turning lane, 4' paved shoulders, expressway and shoulder berm gutter, 4' grassed shoulders and grassed side slopes.			Two 12' travel lanes w/2' to 25' grassed shoulders and grassed side slopes.		
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 12300 2035		Existing: 8300		Year: 2015	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		This project maintains shoulder section in portions of the -L- line to maintain sheet flow. Directly connected impervious areas have been avoided. Grass conveyance and shoulder treatment have been maintained to the maximum extent practicable. Energy dissipation has been provided at discharge points and outfalls. Existing eroding ditches have been stabilized with rip rap and geosynthetics.					
Waterbody Information							
Surface Water Body (1):		Uwharrie River		NCDWR Stream Index No.:		13-2-(0.5)	
NCDWR Surface Water Classification for Water Body		Primary Classification:		Water Supply III (WS-III)		None	
		Supplemental Classification:		None		None	
Other Stream Classification:		None		None		None	
Impairments:							
Threatened/Endangered Species?		No		Comments:			
Buffer Rules in Effect		N/A					
Project Includes Bridge Spanning Water Body?		No		Deck Drains Discharge Over Buffer?		N/A	
Deck Drains Discharge Over Water Body?		N/A		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)							

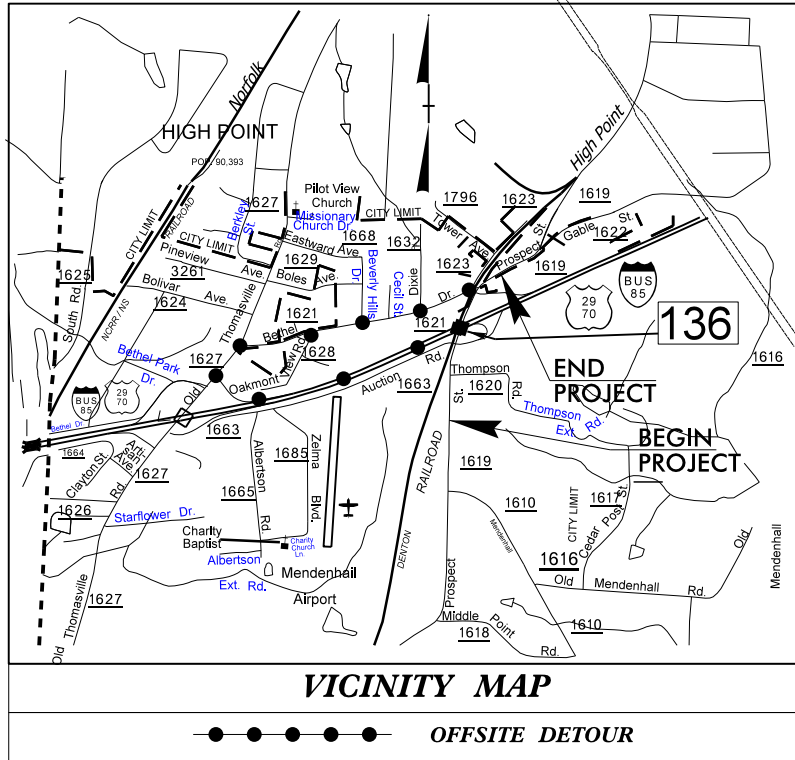
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\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

09/08/99

CONTRACT:

TIP PROJECT: B-5114

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

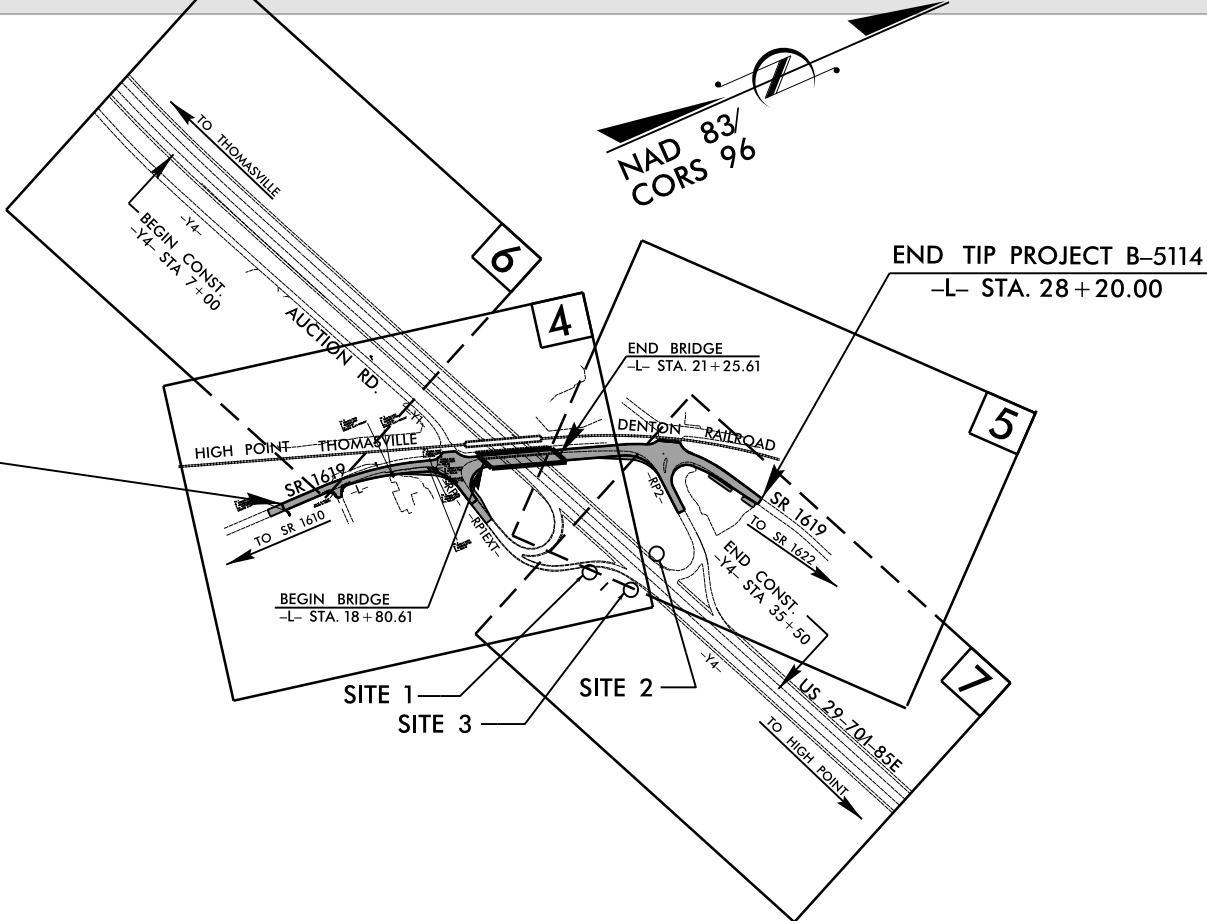


VICINITY MAP

OFFSITE DETOUR

BEGIN TIP PROJECT B-5114
-L- STA. 11 + 50.00

WETLAND AND SURFACE WATER IMPACTS PERMIT

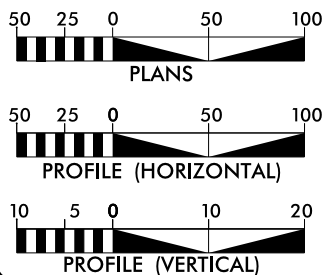


PERMIT DRAWING
SHEET 1 OF 8

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF HIGH POINT.

GRAPHIC SCALES



DESIGN DATA

ADT 2015 = 8,300
ADT 2035 = 12,300
DHV = 11 %
D = 70 %
T = 8 % *
V = 40 MPH
* TTST 3% DUAL 5%
FUNC CLASS = MINOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5114 = 0.270 MI
LENGTH STRUCTURE TIP PROJECT B-5114 = 0.046 MI
TOTAL LENGTH OF TIP PROJECT B-5114 = 0.316 MI

DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 16, 2014

LETTING DATE:
JUNE 16, 2015

JAMES A. SPEER, PE
PROJECT ENGINEER

ALLISON K. WHITE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.



MATCH LINE -Y4- 17+00.00
SEE SHEET 6

NAD 83/CORS 96

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

[illegible]

PERMIT DRAWING
SHEET 2 OF 8

**SITE 1 –
SEE DETAIL**

REMOVE FES &
8 LF OF 24" CONC PIPE.
COLLAR AND
REPLACE WITH 16 LF
OF 24" RCP-III

A rectangular block with diagonal hatching (lines from top-left to bottom-right). Inside the block, there are two 'S' symbols, one on the left and one on the right.

DENOTES IMPACTS IN
SURFACE WATER

100' 0' 100' 200' 300'

Scale: 1" = 100'

REVISIONS

7/9/2014
mkelly
R:\Hydraulics\PERMITS_Environmental\Drawings\R5114_Hyd_perm_wet_PSH04.dgn

8/17/99

\$\$\$SYTIME\$\$\$
 \$\$\$DGN\$\$\$
 \$\$\$USERNAME\$\$\$

MATCH LINE -Y4- 17+00.00
SEE SHEET 6

NAD 83/CORS 96

MATCH LINE -L- STA. 22 + 50.00 SEE SHEET 5

PERMIT SHEET 3 OF 8

**SITE 1 –
SEE DETAIL**

REMOVE FES &
8 LF OF 24" CONC PIPE.
COLLAR AND
REPLACE WITH 16 LF
OF 24" RCP-III


 DENOTES IMPACTS IN SURFACE WATER

100' 0' 100' 200' 300'

Scale: 1" = 100'

EVISIONS

7/9/2014
mkelly

17/99

8/17/99

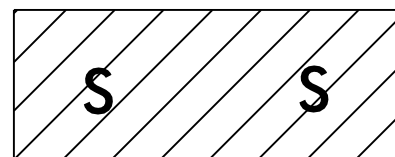
PROJECT REFERENCE NO.		SHEET NO.	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			

REMOVE FES &
OF 24" CONC PIPE.
COLLAR AND
REPLACE WITH 16 LF
OF 24" RCP-III

RONALD W. MCKAGUE
AND WIFE
JUDITH R. MCKAGUE



Scale: 1" = 30'

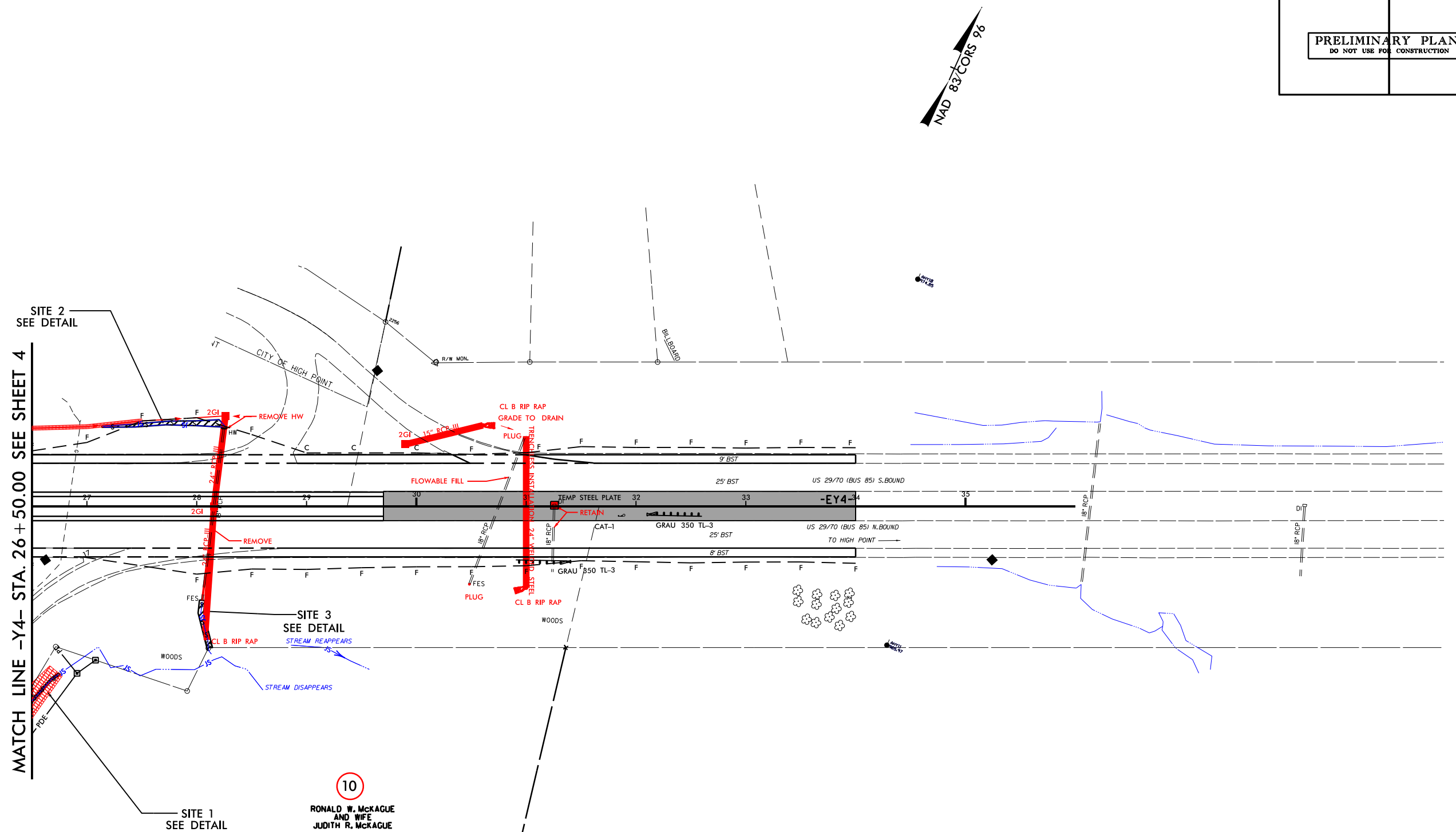


**DENOTES IMPACTS IN
SURFACE WATER**

SITE 1 DETAIL

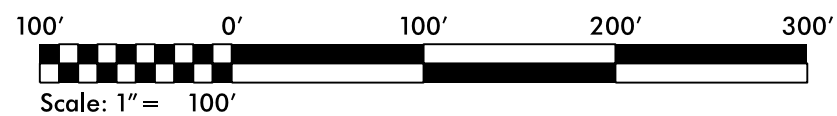
PERMIT SHEET 4 OF 8

A close-up photograph of a white road sign with black text. The sign reads "STA. 26 + 50.00" in large, bold, sans-serif capital letters. To the right of this, the word "SEE" is partially visible in the same font. The sign is mounted on a post, and the background shows a road with lane markings and some vegetation.



 DENOTES IMPACTS IN SURFACE WATER

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PERMIT DRAWING
SHEET 5 OF 8

7/9/2014
mkelly
R:\Hydraulics\PERMITS_Environmental\Drawings\B5114_Hyd_prm_wet_PSH07.dgn

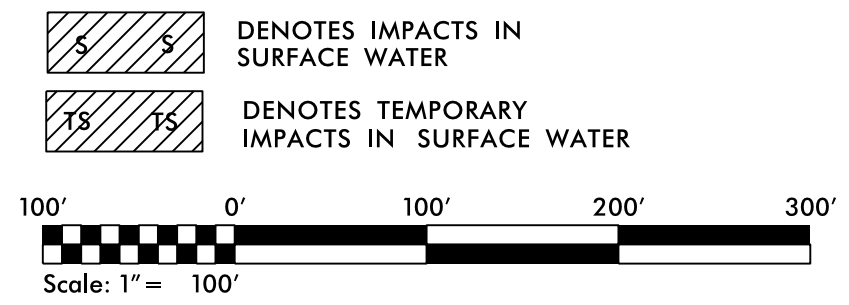
REVISIONS

8/17/99

SYTIME DGN USERNME

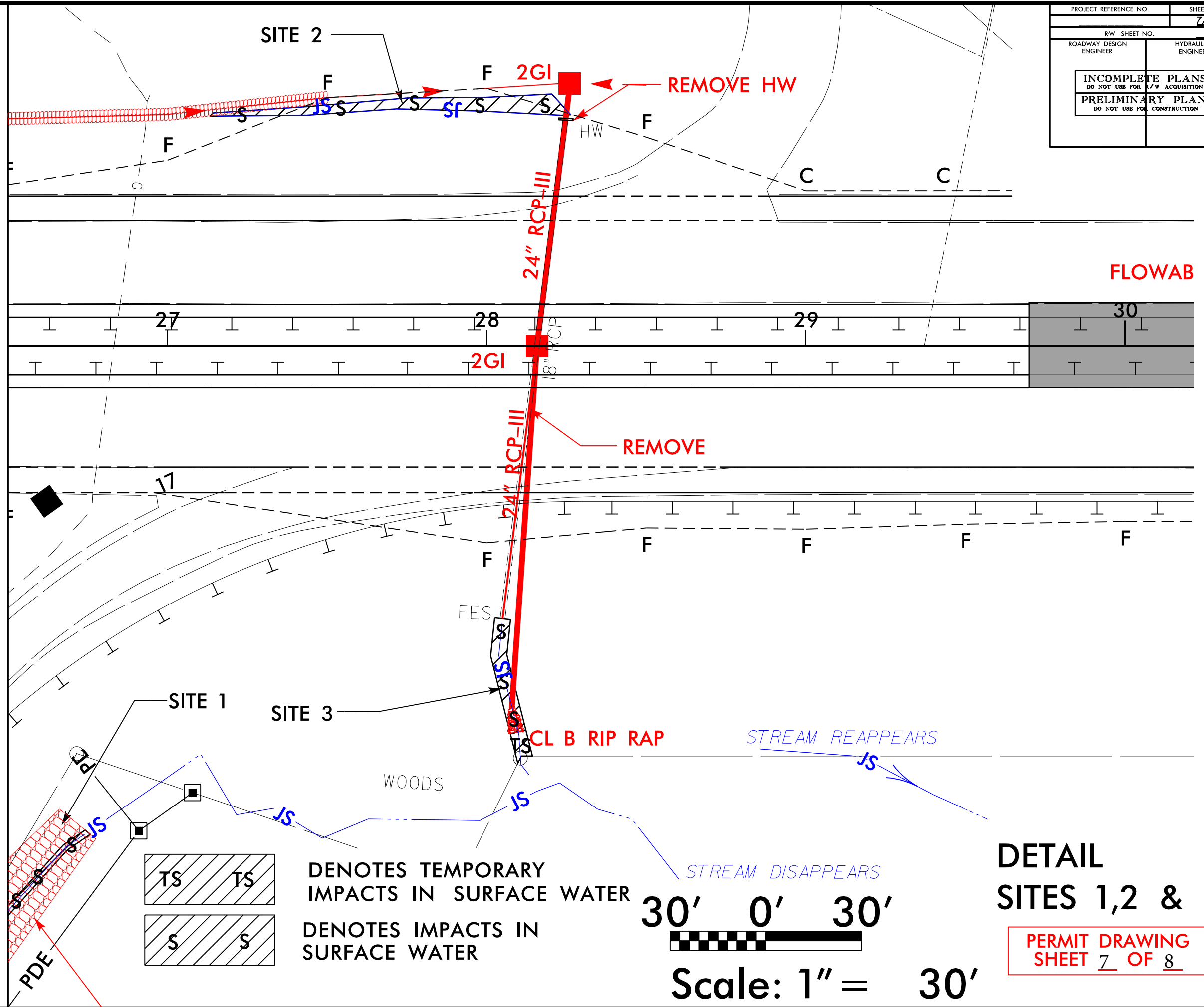
7/9/2014
mkelly
R:\Hydraulics\PERMITS_Environmental\Drawings\B5114_Hyd_prm_wet_PSH07.dgn

REVISIONS



PERMIT DRAWING
SHEET 6 OF 8

MATCH LINE -Y4- STA. 26+50.00 SEE SHEET 4

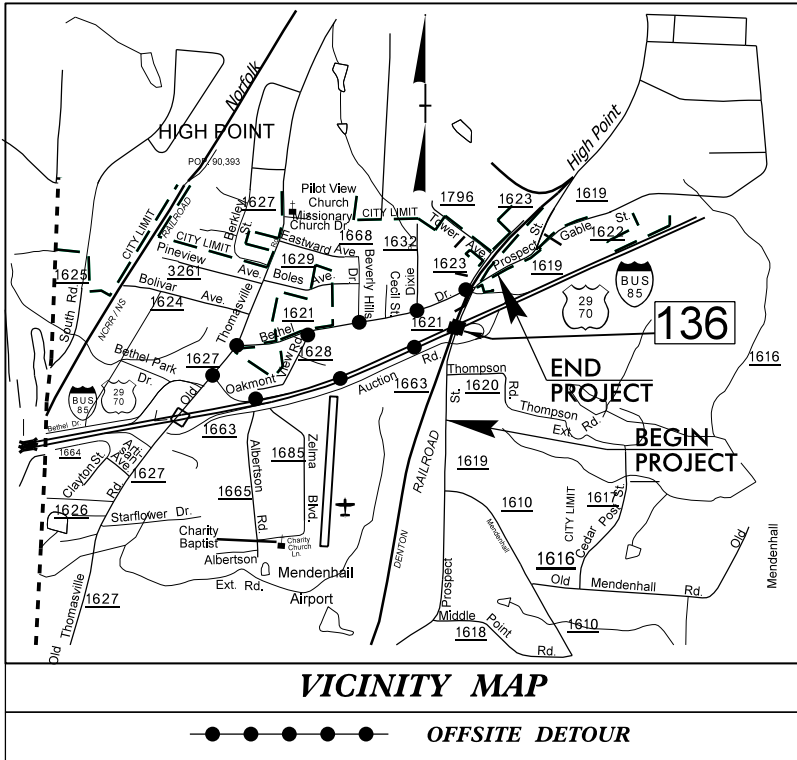


DETAIL SITES 1,2 & 3

PERMIT DRAWING
SHEET 7 OF 8

09/08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

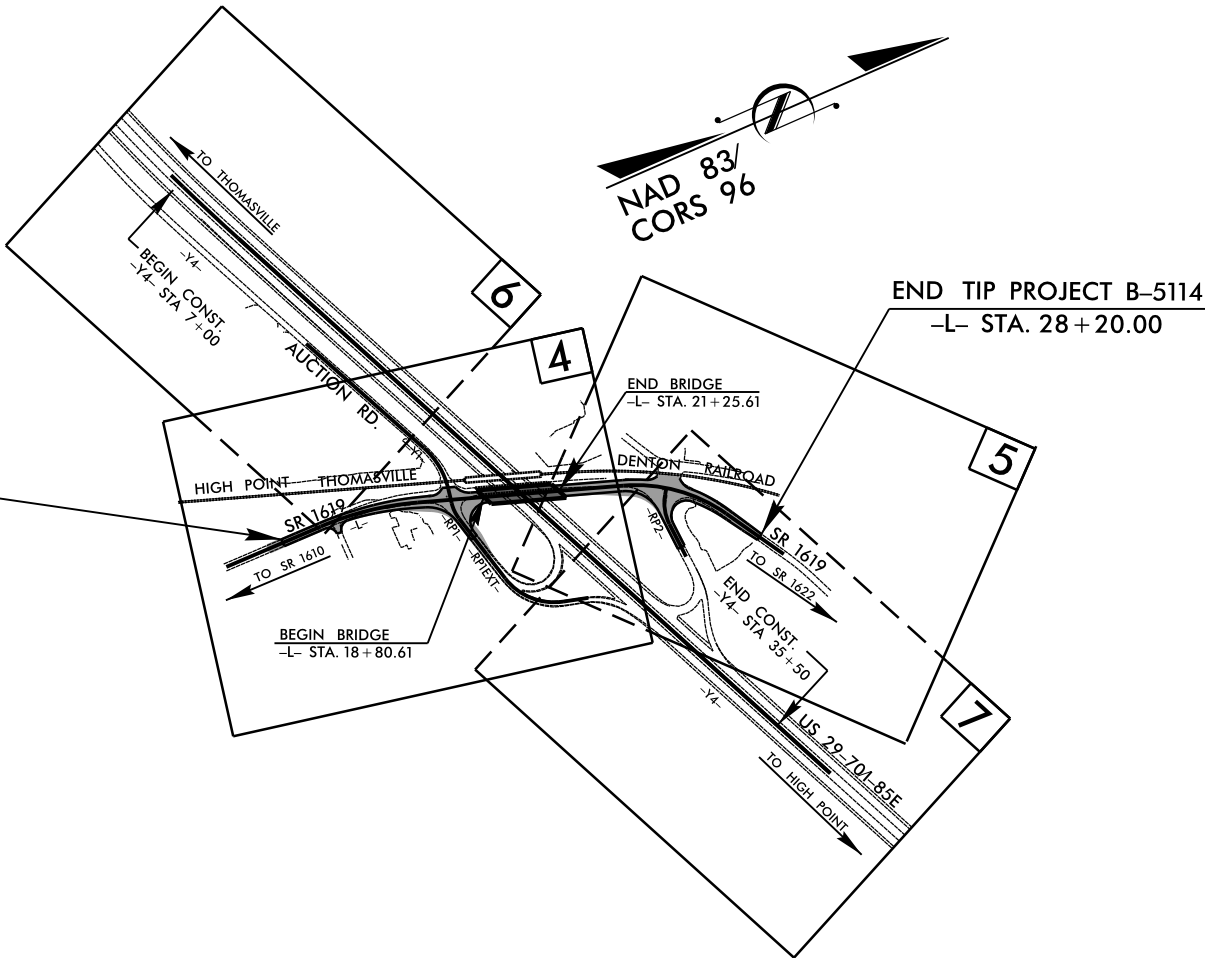


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

RANDOLPH COUNTY

**LOCATION: BRIDGE 136 OVER US 29-70I-85 BUSINESS ON
SR 1619 (PROSPECT STREET) IN HIGH POINT**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURE AND SIGNALS



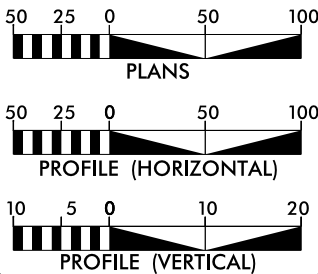
BEGIN TIP PROJECT B-5114
-L- STA. 11 + 50.00

END TIP PROJECT B-5114
-L- STA. 28 + 20.00

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF HIGH POINT.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2015 = 8,300
ADT 2035 = 12,300
DHV = 11 %
D = 70 %
T = 8 % *
V = 40 MPH
* TTST 3% DUAL 5%
FUNC CLASS=MINOR
ARTERIAL

PROJECT LENGTH

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LENGTH STRUCTURE TIP PROJECT B-5114 = 0.046 MI
TOTAL LENGTH OF TIP PROJECT B-5114 = 0.316 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 16, 2014

LETTING DATE:
JUNE 16, 2015

JAMES A. SPEER, PE
PROJECT ENGINEER

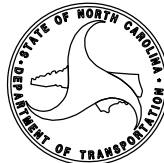
ALLISON K. WHITE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.



TIP PROJECT: B-5114

CONTRACT:

17-APR-2014 08:56
R:\Roadway\Proj\B5114_Rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	-----x-----
Property Monument	□ EDM
Parcel/Sequence Number	123
Existing Fence Line	-x-x-x-
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-----
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	○ 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	-----
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	-----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	-----
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:

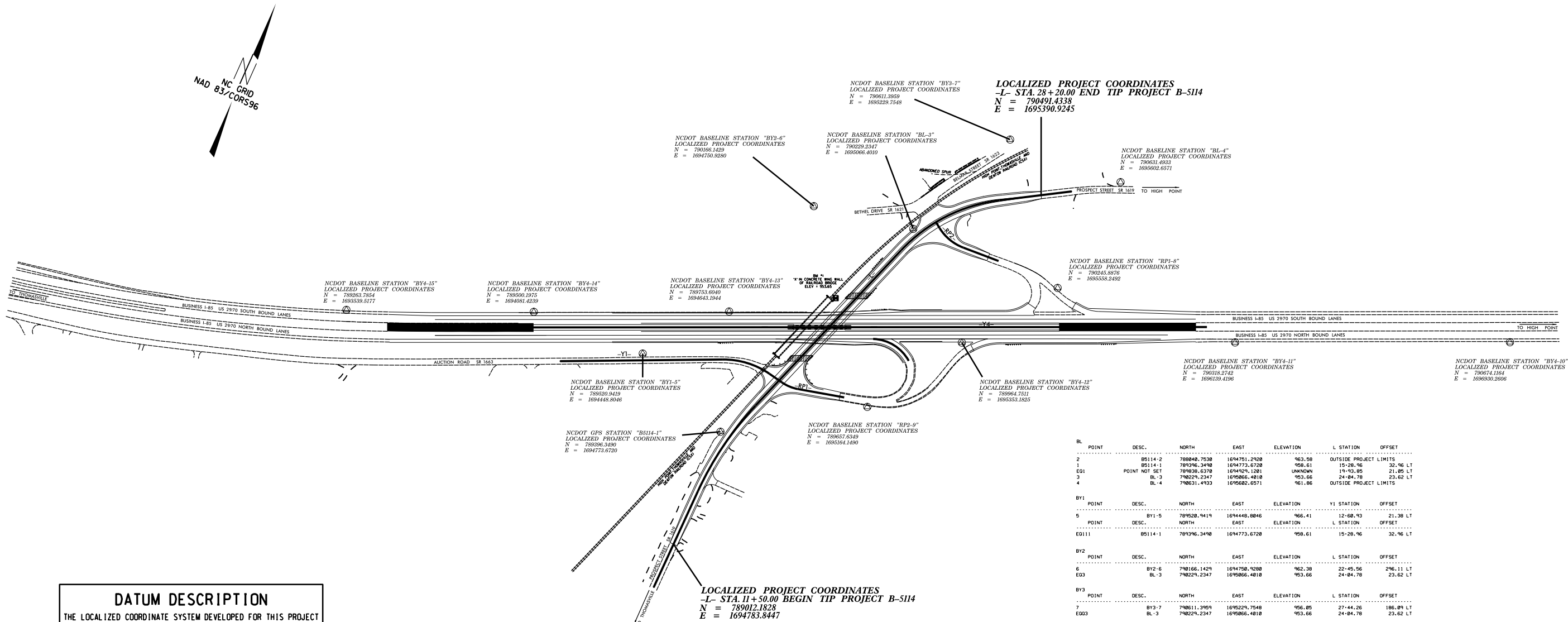
Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

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	-----
End of Information	-----

SURVEY CONTROL SHEET B-5114

PROJECT REFERENCE NO.	SHEET NO.
B-5114	1C
Location and Surveys	



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NGS FOR MONUMENT "B5114-2"

WITH NAD 83/CORS96 STATE PLANE GRID COORDINATES OF
NORTHING: 788040.753(±) EASTING: 1694751.292(±)
ELEVATION: 963.58(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989792

THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"B5114-2" TO -L- STATION 11+50.00 IS
N 01°55'09.4" E 971.975'

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

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/](https://connect.ncdot.gov/resources/location/)

THE FILES TO BE FOUND ARE AS FOLLOWS:
B5114_L5_CONTROL.TXT

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

• INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

• NCDOT GPS STATION "B5114-2"
LOCALIZED PROJECT COORDINATES
N = 788040.7530
E = 1694751.2920

	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
E01	1	POINT NOT SET	B5114-2	788040.7530	1694751.2920	963.58	OUTSIDE PROJECT LIMITS
			B5114-1	789396.3490	1694773.6720	958.61	15+28.96 32.96 LT
			BL-3	780229.2347	1695086.4010	953.66	24+84.78 23.62 LT
			BL-4	780631.4933	1695682.6571	961.86	OUTSIDE PROJECT LIMITS
BY1	POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
5	POINT	BY1-5	789520.9419	1694448.8046	966.41	12+68.93	21.38 LT
POINT		DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
ED111	B5114-1	789396.3490	1694773.6720	958.61	15+28.96	32.96 LT	
BY2	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
6	POINT	BY2-6	780166.1429	1694750.9280	962.38	22+45.56	296.11 LT
ED03		BL-3	780229.2347	1695086.4010	953.66	24+84.78	23.62 LT
BY3	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
7	POINT	BY3-7	780611.3959	1695229.7548	956.05	27+44.26	186.89 LT
ED03		BL-3	780229.2347	1695086.4010	953.66	24+84.78	23.62 LT
BY4	POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
15	POINT	BY4-15	789263.7854	1693839.5177	944.73	OUTSIDE PROJECT LIMITS	
14		BY4-14	789500.1975	1694881.4239	954.67	13+11.77	49.16 LT
13		BY4-13	789753.6848	1694643.1944	948.65	19+28.05	49.91 LT
ED11		POINT NOT SET	789038.6370	1694929.1201	UNKNOWN	22+23.78	18.21 LT
12		BY4-12	789964.7511	1695353.1825	932.31	26+62.18	48.67 RT
11		BY4-11	780318.2742	1696139.4196	927.52	OUTSIDE PROJECT LIMITS	
10	BY4-10	780674.1164	1696320.2686	928.29	OUTSIDE PROJECT LIMITS		
BRP1	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
ED003	POINT	BL-3	780229.2347	1695086.4010	953.66	24+84.78	23.62 LT
POINT		DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
8	RP1-8	780245.8876	1695558.2492	934.89	29+64.51	123.64 LT	
BRP2	POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
9	POINT	BRP2-9	789657.6349	1695164.1490	945.18	18+99.17	268.89 RT
ED012		POINT	DESC.	NORTH	EAST	ELEVATION	L STATION
11	POINT	ED012-11	789964.7511	1695353.1825	932.31	26+62.18	48.67 RT
9		RP2-9	789657.6349	1695164.1490	945.18	18+99.17	268.89 RT

BM1	ELEVATION = 953.65						
11	N 789938 E 1094932						
L STATION 28+91.00 47 LEFT							
CHASLED SQUARE IN NORTH WEST CORNER OF							
WIND WALL OF RAILROAD BRIDGE							

BM2	ELEVATION = 944.73						
789564	N 789540 E 1095340						
Y4 STATION 34+35.00							
S 85°50'8.11" W DIST 2715.44							
REBAR & CAP BYS 11							

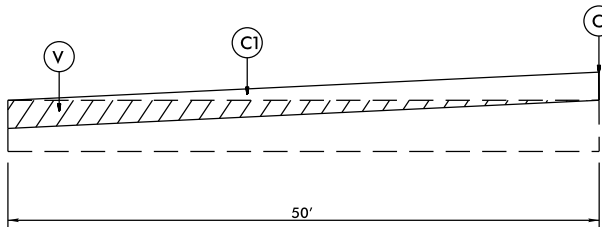
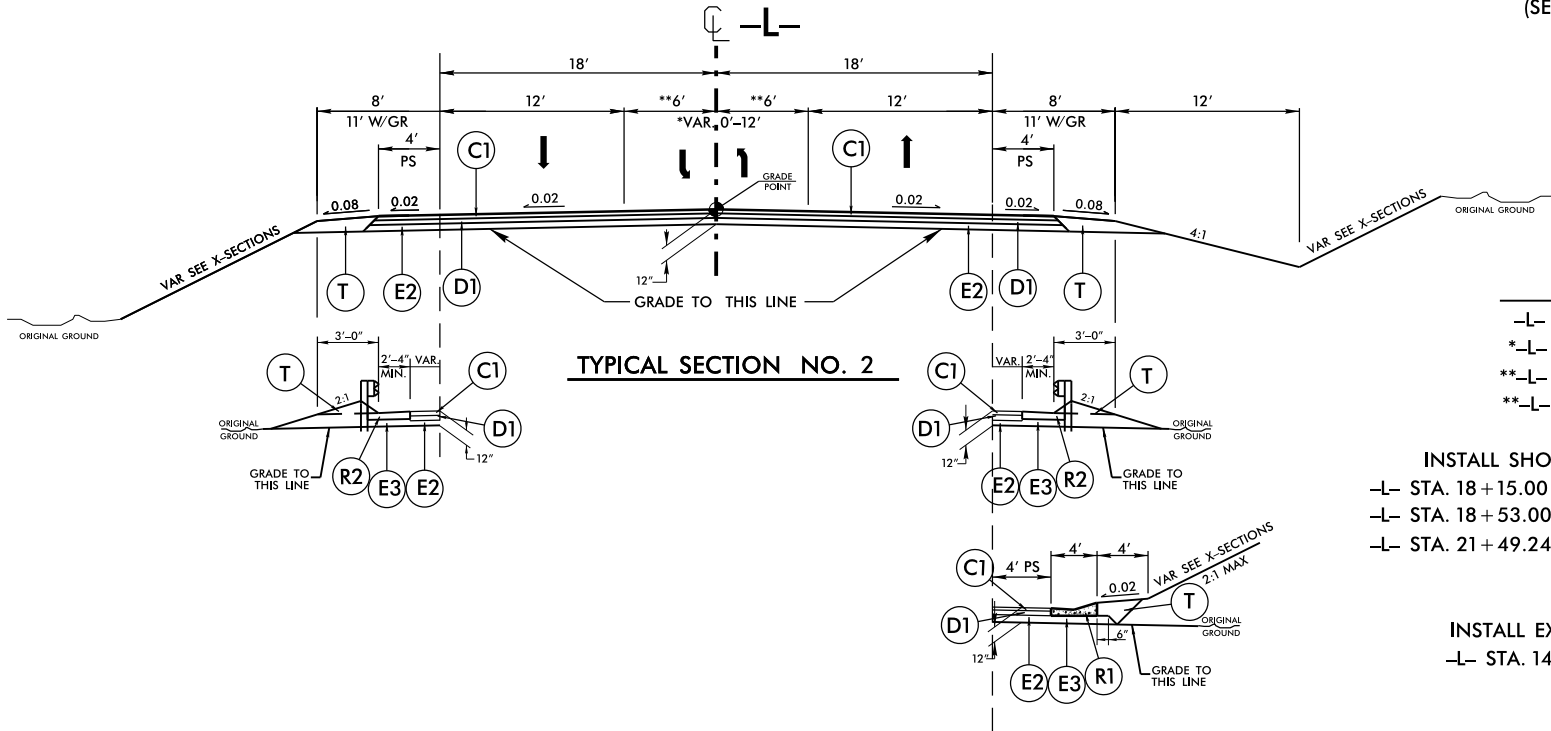
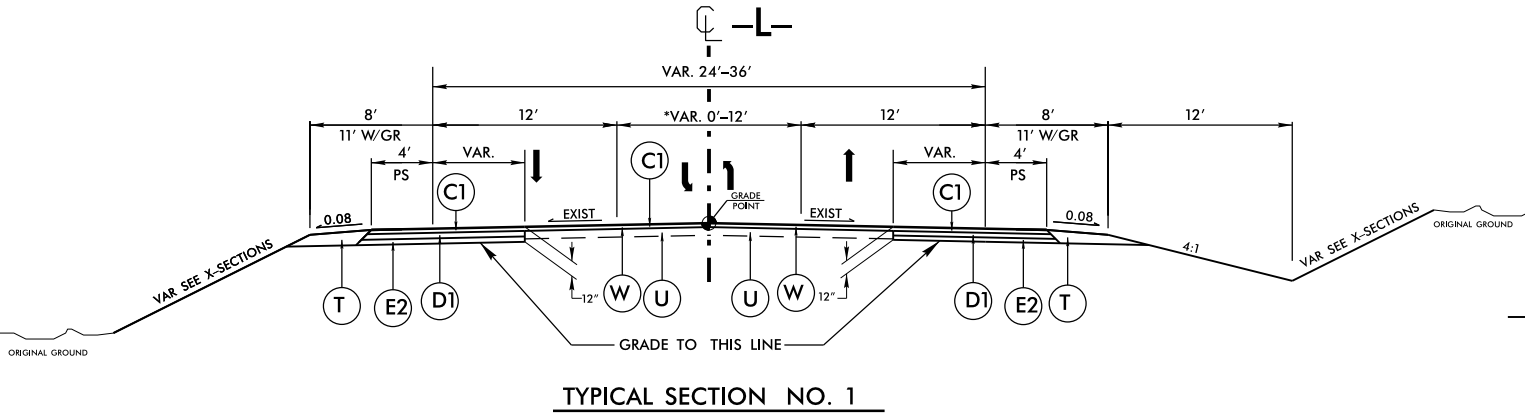
BM3	ELEVATION = 927.52						
11	N 780318 E 1096139						
Y4 STATION 34+35.00							
S 85°29'6.96" E DIST 101.26							
REBAR & CAP BYS 11							

6/2/99

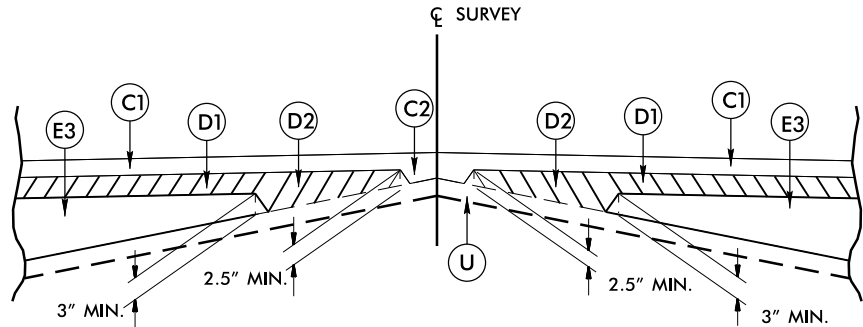
17-APR-2014 08:56
R:\Roadway\Projects\B5114_Fdy-tyr.dgn
\$\$\$\$\$SYTIME\$\$\$\$\$

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C4	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
D3	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D4	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D5	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
E4	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E5	PROP. APPROX. 8.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 484.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E6	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
J1	PROP. 8" AGGREGATE BASE COURSE
J2	PROP. VAR. DEPTH AGGREGATE BASE COURSE
R1	EXPRESSWAY GUTTER
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING EXISTING ASPHALT PAVEMENT, 0 TO 3" DEPTH
V2	MILLING EXISTING ASPHALT PAVEMENT, 1½" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET NO. 2)

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



MILLING DETAIL AND RESURFACING (-L-)



Detail Showing Method of Wedging

PROJECT REFERENCE NO.	SHEET NO.
B-5114	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

USE TYPICAL NO. 1

-L- STA. 12+00.00 TO STA. 13+27.00
*-L- STA. 25+80.00 TO STA. 27+22.00

NOTE: RESURFACE WITH C1
-L- STA. 27+22.00 TO STA. 27+70.00

NOTE: MILL (V1) AND RESURFACE WITH (C1)
-L- STA. 11+50.00 TO STA. 12+00.00
-L- STA. 27+70.00 TO STA. 28+20.00
(SEE MILLING AND RESURFACING DETAIL)

USE TYPICAL NO. 2

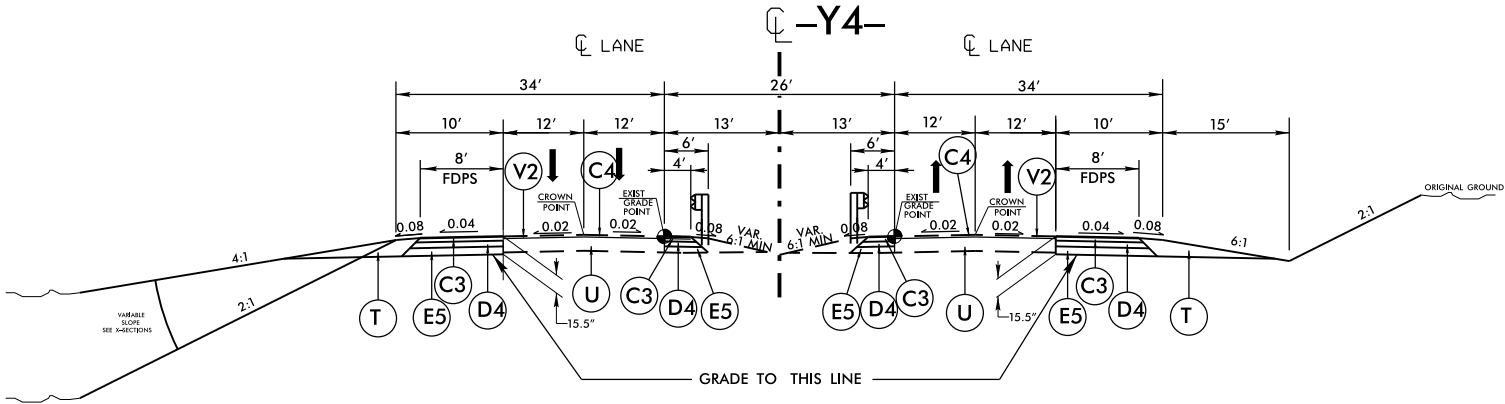
-L- STA. 13+27.00 TO STA. 14+60.00
*-L- STA. 14+60.00 TO STA. 17+00.00
**-L- STA. 17+00.00 TO STA. 18+80.61 (BEGIN BRIDGE)
**-L- STA. 21+25.61 (END BRIDGE) TO STA. 25+80.00

INSTALL SHOULDER BERM GUTTER (SBG) AS FOLLOWS.
-L- STA. 18+15.00 TO STA. 18+56.99 (BEGIN APPROACH SLAB) LT
-L- STA. 18+53.00 TO STA. 18+56.99 (BEGIN APPROACH SLAB) RT
-L- STA. 21+49.24 (END APPROACH SLAB) TO STA. 22+30.00 LT & RT

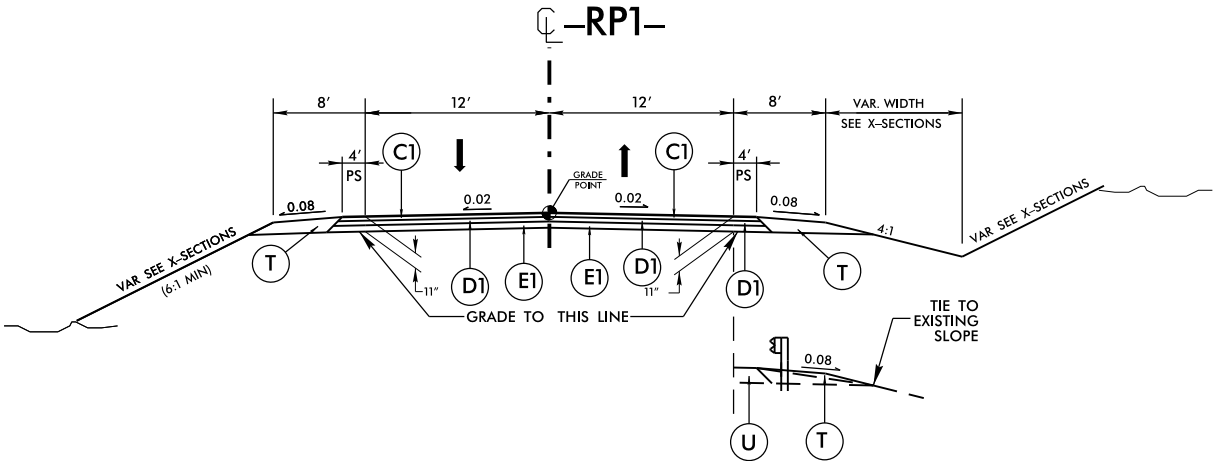
INSTALL EXPRESSWAY GUTTER (EXG) AS FOLLOWS.
-L- STA. 14+23.57 TO STA. 16+84.89 RT

C1	3" S9.5B
C2	VARIABLE DEPTH S9.5B
C3	3" S9.5C
C4	1½" S9.5C
D1	4" I19.0B
D2	VARIABLE DEPTH I19.0B
D3	2.5" I19.0C
D4	4" I19.0C
D5	VARIABLE DEPTH I19.0C
E1	4" B25.0B
E2	5" B25.0B
E3	VARIABLE DEPTH B25.0B
E4	4" B25.0C
E5	8.5" B25.0C
E6	VARIABLE DEPTH B25.0C
R1	EXPRESSWAY GUTTER
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V2	MILL EXIST. PAVEMENT 1½"
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET NO. 2)

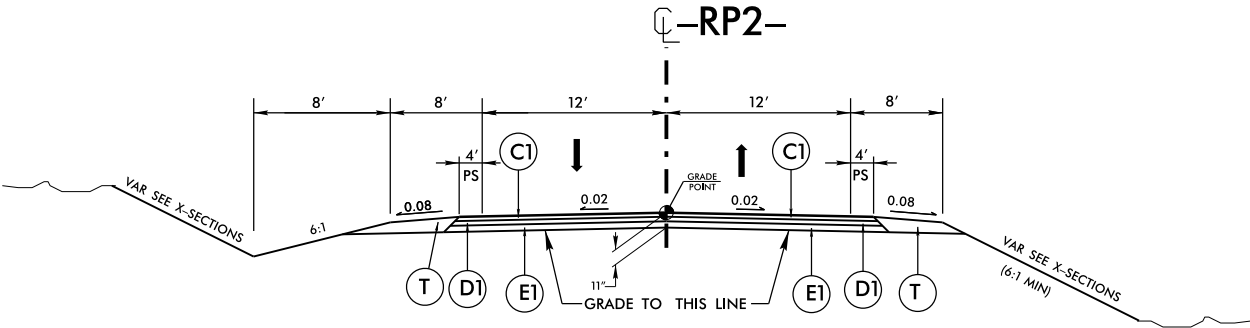
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 5

PROJECT REFERENCE NO.	SHEET NO.
B-5114	2-A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

USE TYPICAL NO. 3

–Y4– STA. 12+80.00 TO –Y4– STA. 29+70.00

- 1) REMOVE EXIST. 8' PAVED SHOULDER AND REPLACE WITH 8' WIDE STRENGTHENED PAVED SHOULDER
- 2) ADD 4' MEDIAN PAVED SHOULDERS
- 3) SEE CROSS – SECTIONS FOR PROPOSED GRADING OF MEDIAN SLOPES
- 4) MILL (V2) AND FILL (C4) THE EXISTING –Y4– LANES AFTER TRAFFIC SHIFTS AND MEDIAN CONSTRUCTION HAS BEEN COMPLETED. REFER TO TMP FOR GUIDANCE IN PHASING THE WORK.

USE TYPICAL NO. 4

–RP1– STA. 10+18.24 TO –RP1– STA. 11+46.00
RESURFACE AND WIDEN –RP1– AND –RP1EXT– STA. 11+46.00 TO 12+25.00

NOTE: INSTALL GUARDRAIL AND REPAIR EXISTING SHOULDER

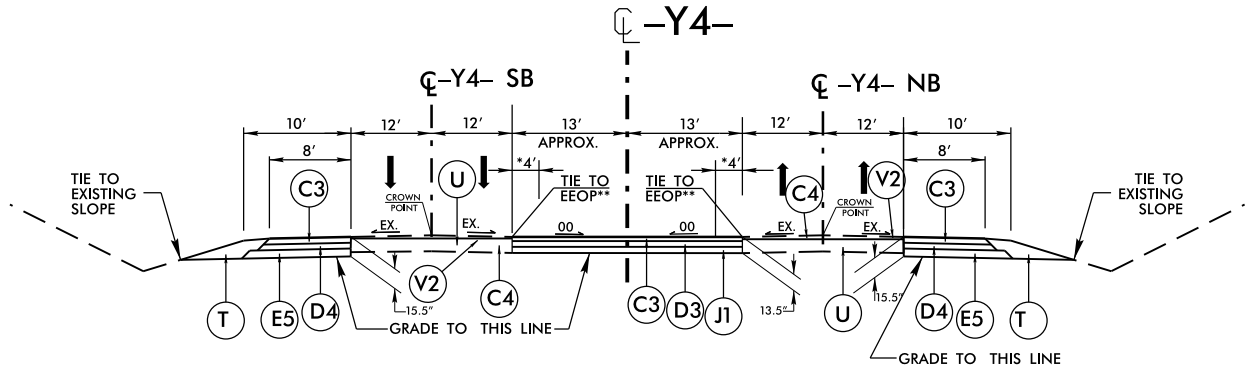
–RP1EXT– STA. 14+00.00 TO STA. 17+14.54
(SEE CROSS – SECTIONS X-20 TO X-23)

USE TYPICAL NO. 5

–RP2– STA. 10+18.00 TO –RP2– STA. 12+05.00

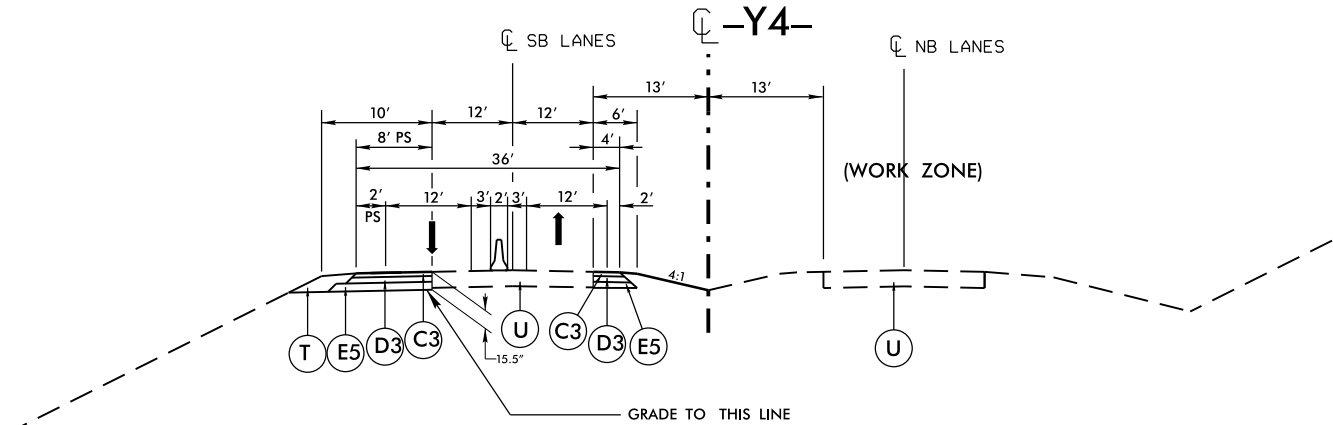
C1	3" S9.5B
C2	VARIABLE DEPTH S9.5B
C3	3" S9.5C
C4	1½" S9.5C
D1	4" I19.0B
D2	VARIABLE DEPTH I19.0B
D3	2.5" I19.0C
D4	4" I19.0C
D5	VARIABLE DEPTH I19.0C
E1	4" B25.0B
E2	5" B25.0B
E3	VARIABLE DEPTH B25.0B
E4	4" B25.0C
E5	8.5" B25.0C
E6	VARIABLE DEPTH B25.0C
J1	PROP. 8" ABC
J2	PROP. VAR. DEPTH ABC
R1	EXPRESSWAY GUTTER
R2	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V2	MILL EXIST. PAVEMENT 1½"
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET NO. 2)

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

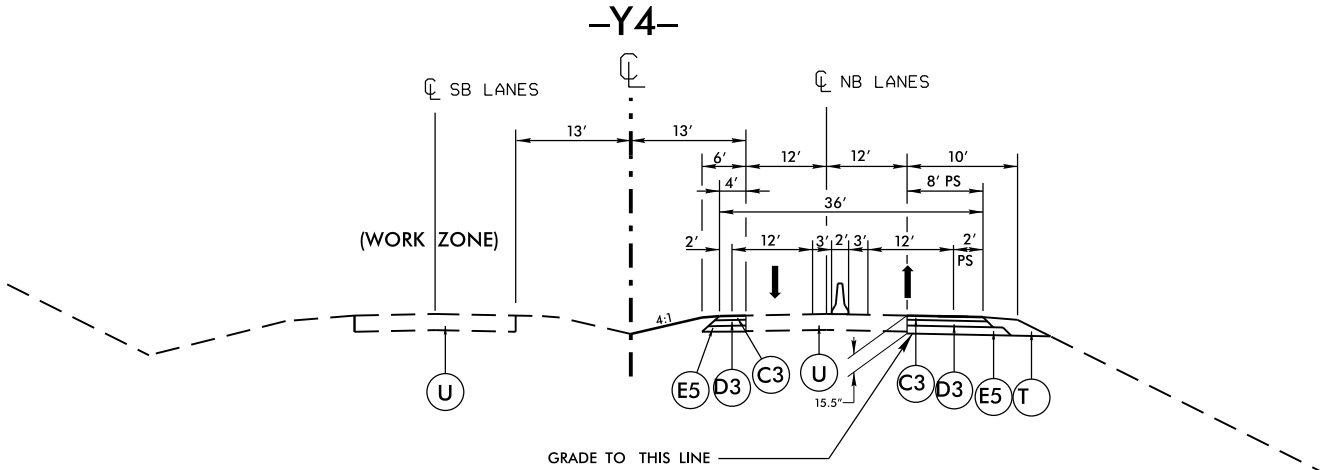


TYPICAL SECTION NO. 6
SEE PLAN SHEETS 6 AND 7

**EEOP DENOTES EXIST. EDGE OF PAVEMENT



TYPICAL SECTION NO. 7



TYPICAL SECTION NO. 7

PROJECT REFERENCE NO.	SHEET NO.
B-5114	2-B
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

USE TYPICAL NO. 6

-Y4- STA. 8+50.00 TO -Y4- STA. 12+80.00 (FOR MEDIAN CROSSOVER)
-Y4- STA. 29+70.00 TO -Y4- STA. 34+00.00 (FOR MEDIAN CROSSOVER)
(STRENGTHEN OUTSIDE PAVED SHOULDERS FOR TRAFFIC SHIFT)

* IN LOCATIONS OF TEMP MEDIAN CROSSOVERS, RETAIN 4' WIDE PAVED SHOULDERS IN THE MEDIAN WHENEVER THE TEMP MEDIAN CROSSOVERS HAVE SERVED THEIR PURPOSE AND ARE TO BE REMOVED. REGRADE MEDIAN SLOPES TO DRAIN, SEE TYPICAL SECTION 3 FOR GUIDANCE.

MILL (V2) AND FILL (C4) THE EXISTING -Y4- LANES AFTER TRAFFIC SHIFTS AND MEDIAN CONSTRUCTION HAS BEEN COMPLETED. REFER TO TMP FOR GUIDANCE IN PHASING THE WORK.

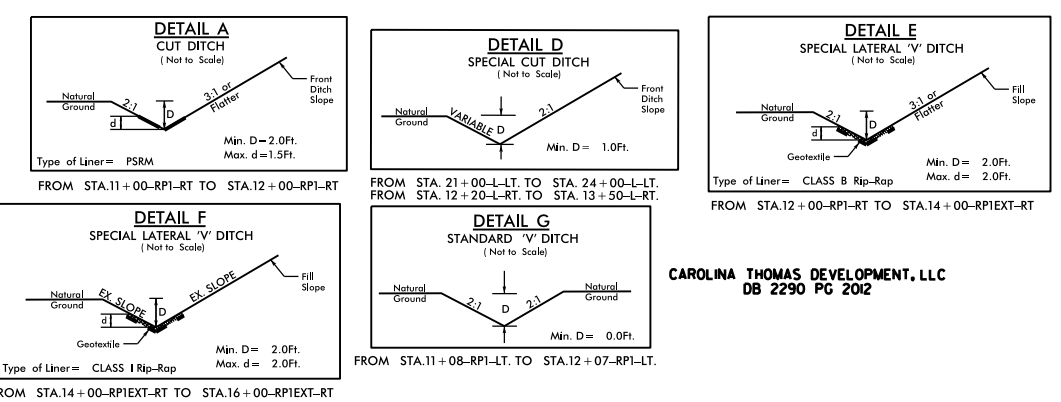
WORK ZONE AREA

SEE TRANSPORTATION MANAGEMENT PLANS FOR TRAFFIC SHIFT

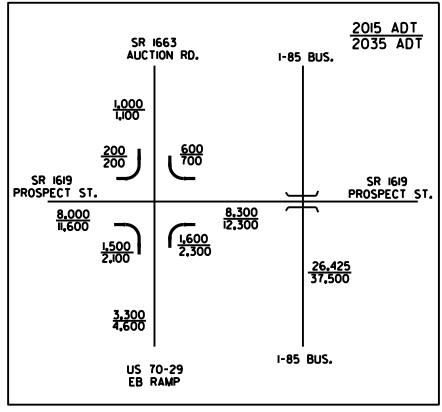
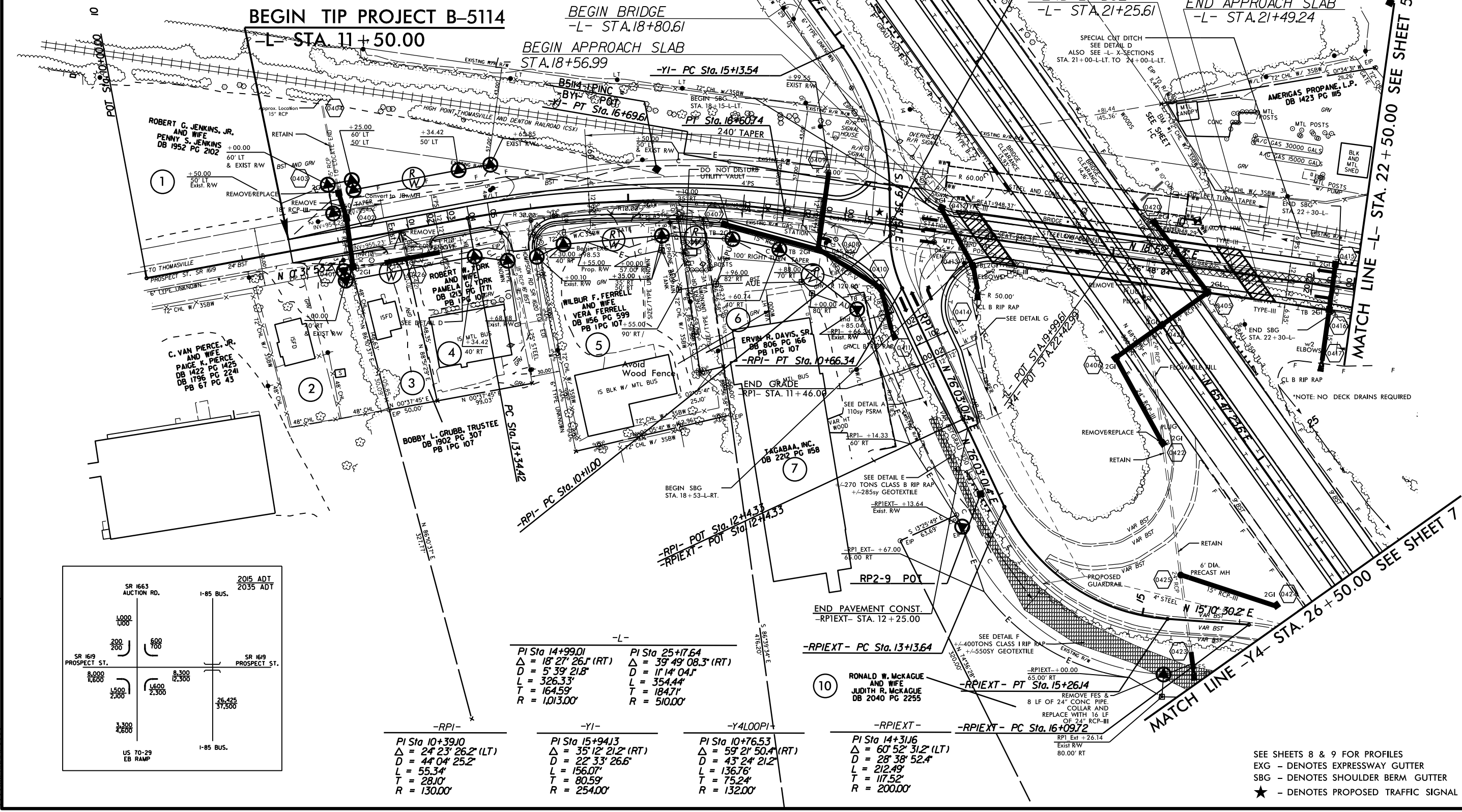
WORK ZONE AREA

SEE TRANSPORTATION MANAGEMENT PLANS FOR TRAFFIC SHIFT

SEE SHEETS 8 & 9 FOR PROFILES

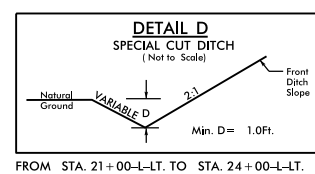


CAROLINA THOMAS DEVELOPMENT, LLC
DB 2290 PG 2012

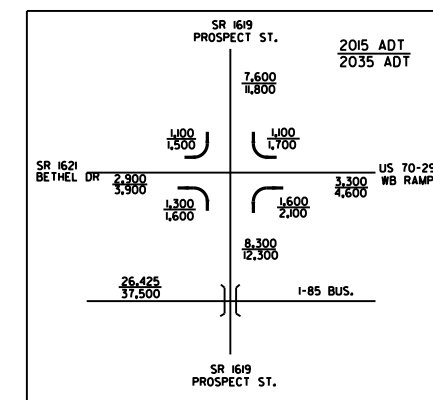
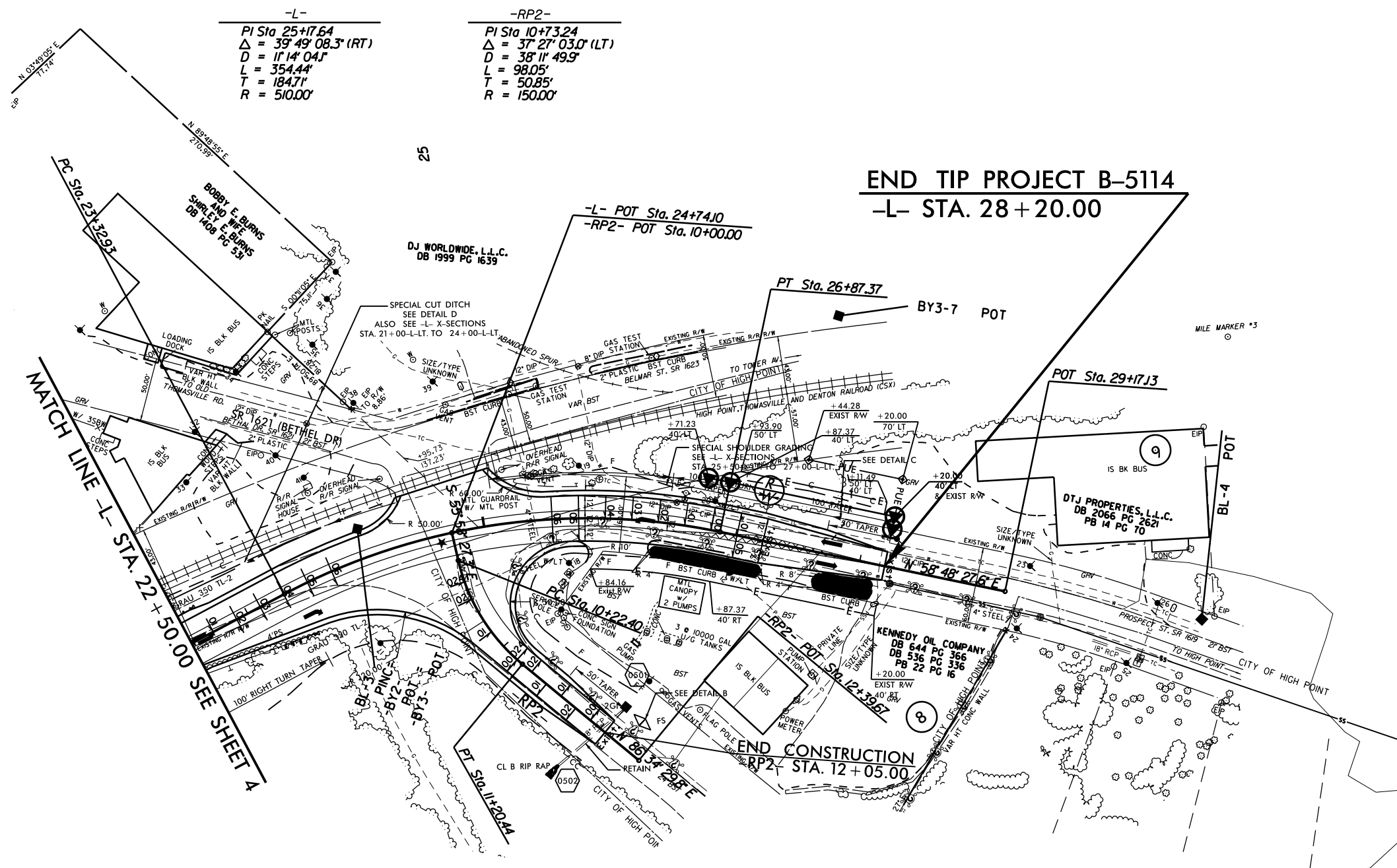


PI Sta 14+99.01	PI Sta 25+17.64	PI Sta 10+76.53
$\Delta = 18' 27' 26.1''$ (RT)	$\Delta = 39' 49' 08.3''$ (RT)	$\Delta = 59' 21' 50.4''$ (RT)
$D = 5' 39' 21.8''$	$D = 11' 14' 04.1''$	$D = 43' 24' 21.2''$
$L = 326.33'$	$L = 354.44'$	$L = 136.76'$
$T = 164.59'$	$T = 184.71'$	$T = 75.24'$
$R = 1,013.00'$	$R = 510.00'$	$R = 132.00'$

SEE SHEETS 8 & 9 FOR PROFILES
EXG - DENOTES EXPRESSWAY GUTTER
SBG - DENOTES SHOULDER BERM GUTTER
★ - DENOTES PROPOSED TRAFFIC SIGNAL

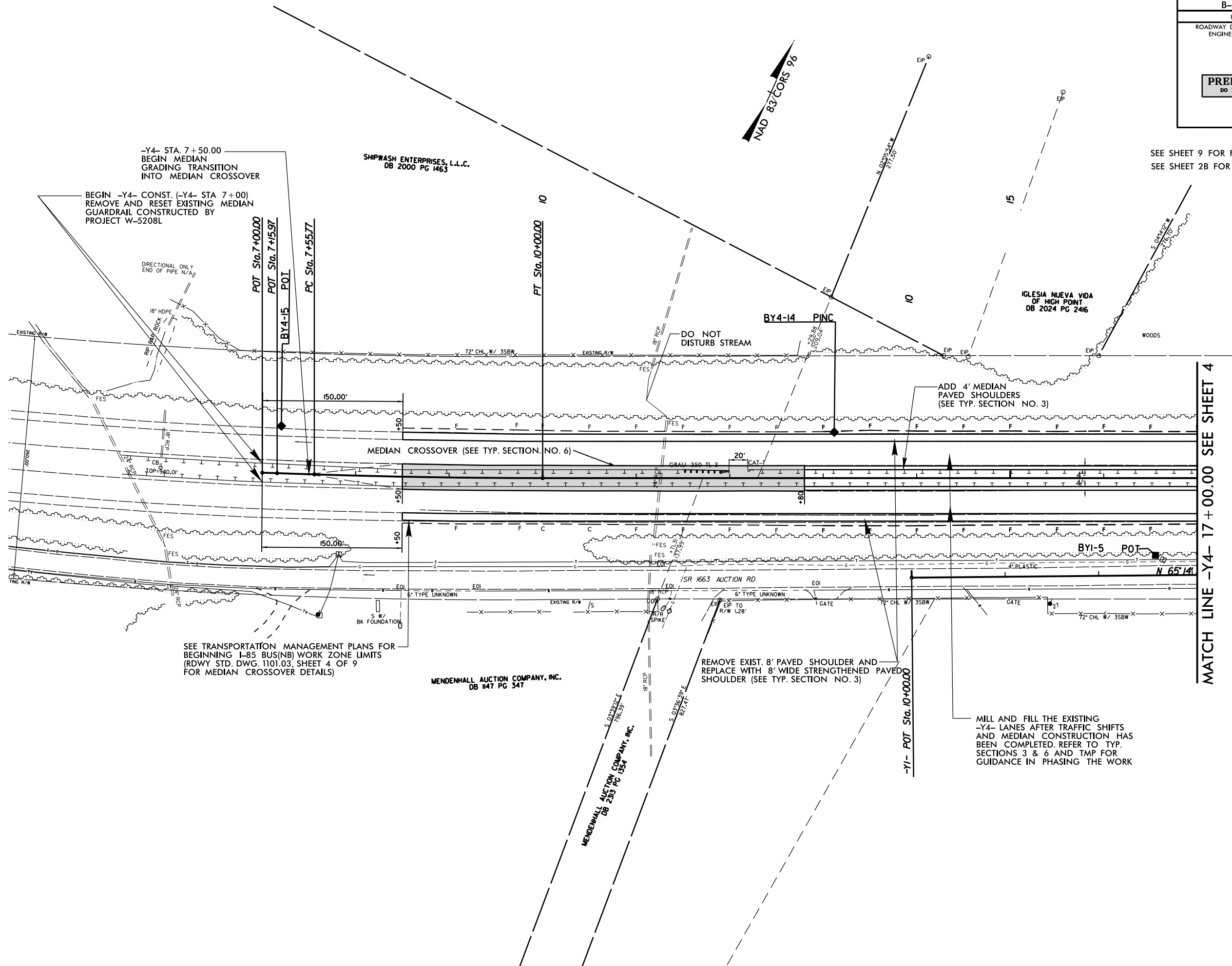


NAD 83/CORS 96



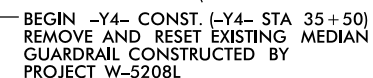
★ - DENOTES PROPOSED TRAFFIC SIGNAL

■ - DENOTES PROPOSED 5" MONOL. CONC. ISLAND (KEYED IN)



MATCH LINE -Y4- 17+00.00 SEE SHEET 4

REVISIONS



DETAIL F

TOE PROTECTION

(Not to Scale)

NATURAL GROUND

d

2:1 OR FLATTER

FILL SLOPE

GEOTEXTILE

$d = 2.0F_1$

Type of Liner = CLASS B Rip-Rap

FROM STA 26 + 50 TO STA 27 + 50-Y4-JT

DETAIL F
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground

EX. SLOPE

Geotextile

EX. SLOPE

Fill Slope

D

d

Type of Liner = CLASS I Rip-Rap

Min. D = 2.0 Ft.
Max. d = 2.0 Ft.

FROM STA 14+00-RPIEXT-RT TO STA 16+00-RPIEXT-L

10

RONALD W. MCKAGUE
AND WIFE
JUDITH R. MCKAGUE
DB 2040 PG 2255

REVISIONS

7-APR-2014 08:57
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\$\$\$\$\$SERNAME\$\$\$\$\$

5/28/99

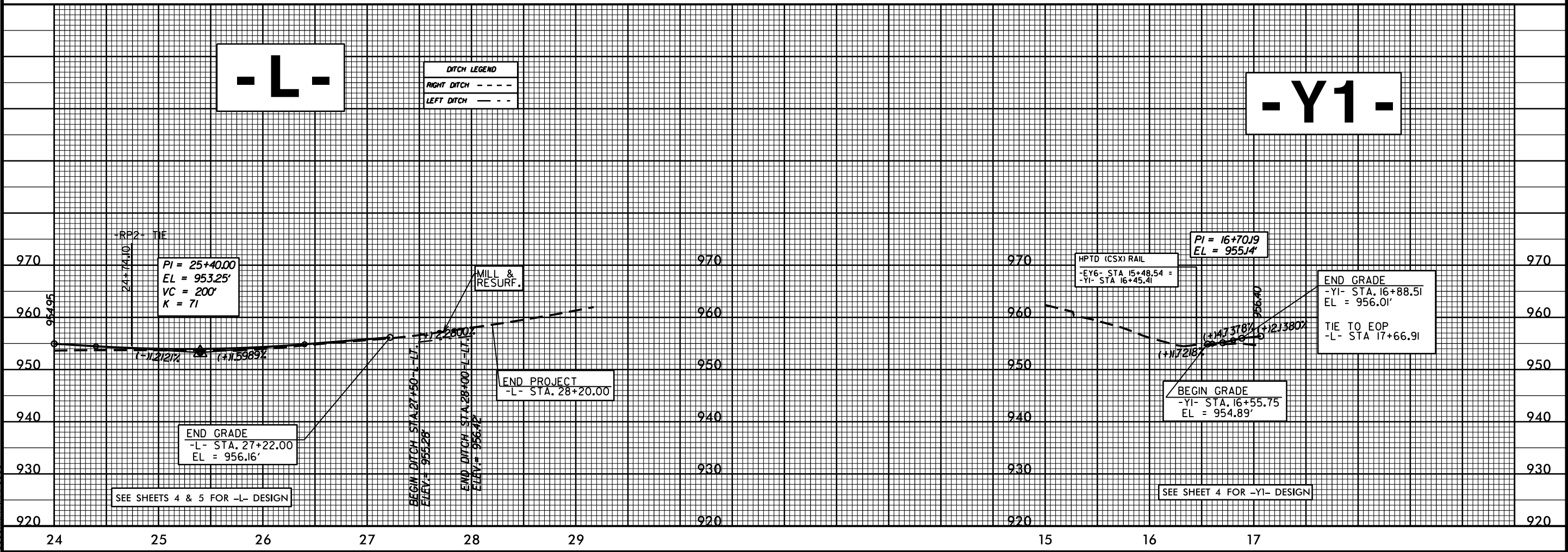
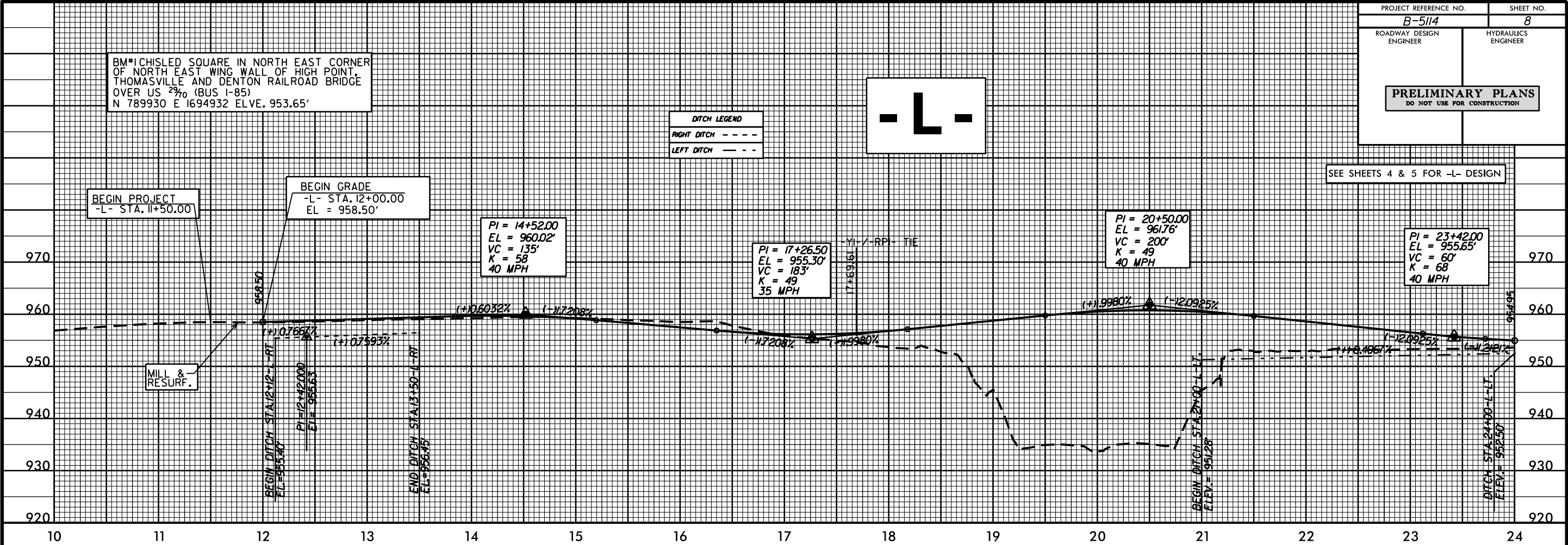
PROJECT REFERENCE NO.
B-5114

ROADWAY DESIGN
ENGINEER

SHEET NO.
8

HYDRAULICS
ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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5/28/99

PROJECT REFERENCE NO.
B-5114

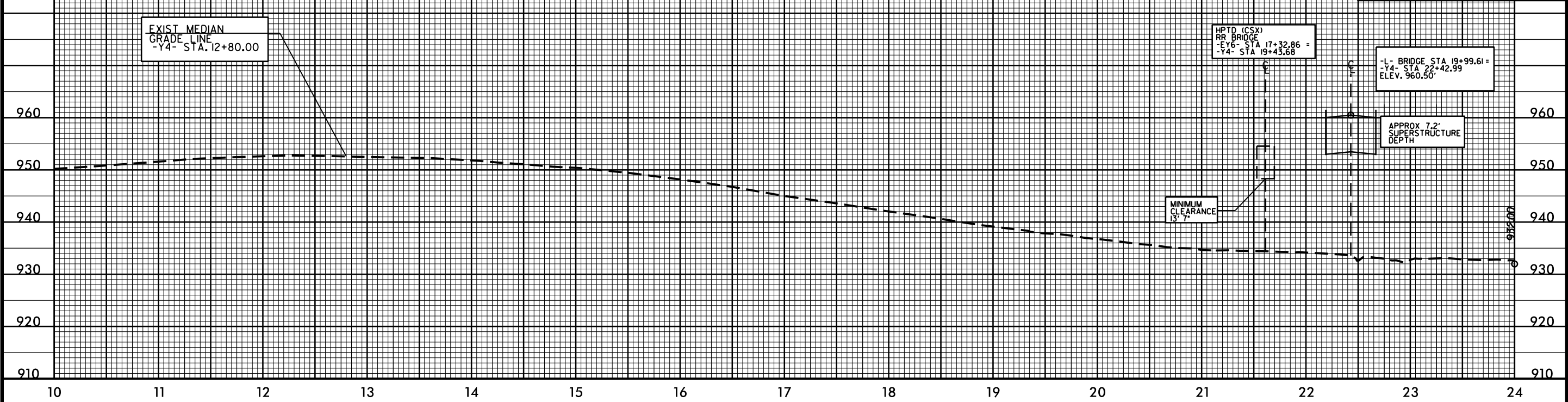
ROADWAY DESIGN
ENGINEER

SHEET NO.
9

HYDRAULICS
ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y4-

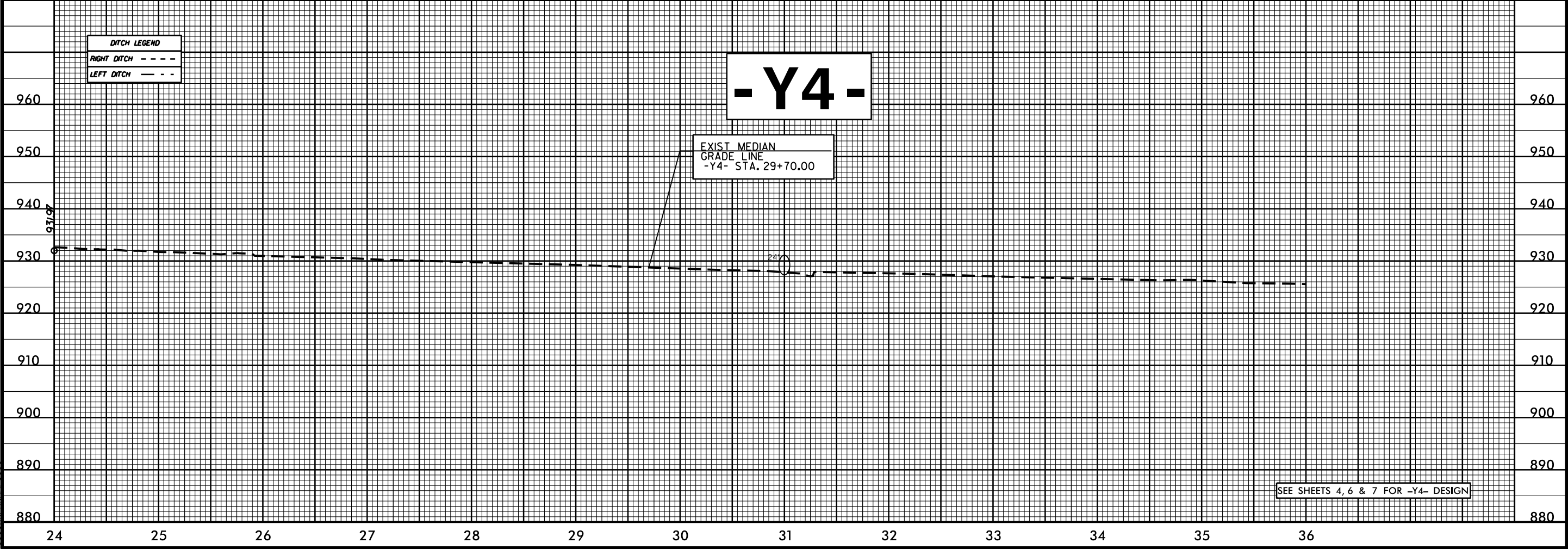


DITCH LEGEND

RIGHT DITCH - - - -

LEFT DITCH - - - -

-Y4-



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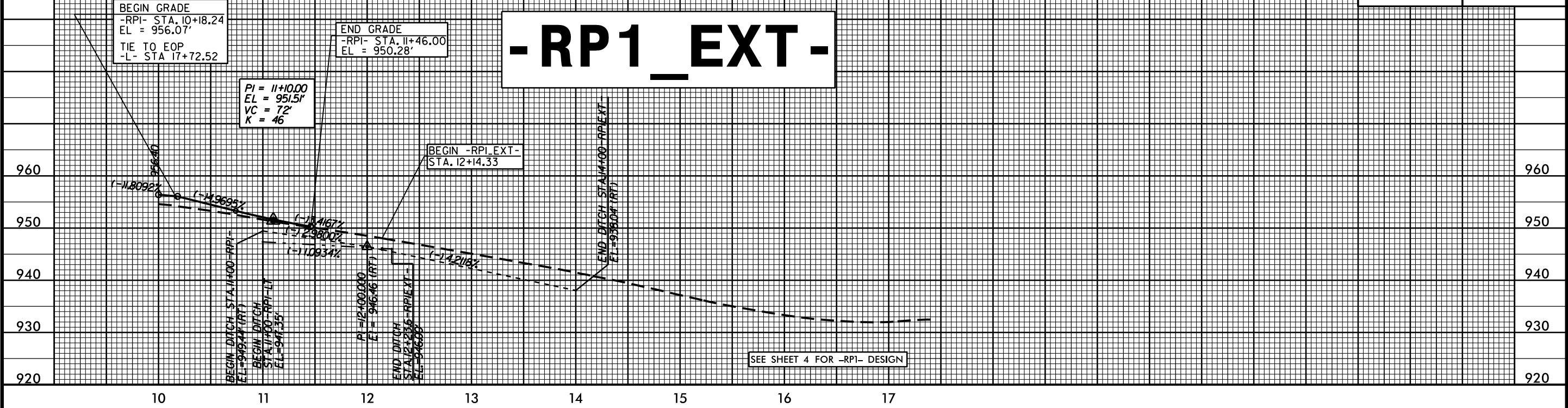
5/28/99

PROJECT REFERENCE NO. B-5114		SHEET NO. 10
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

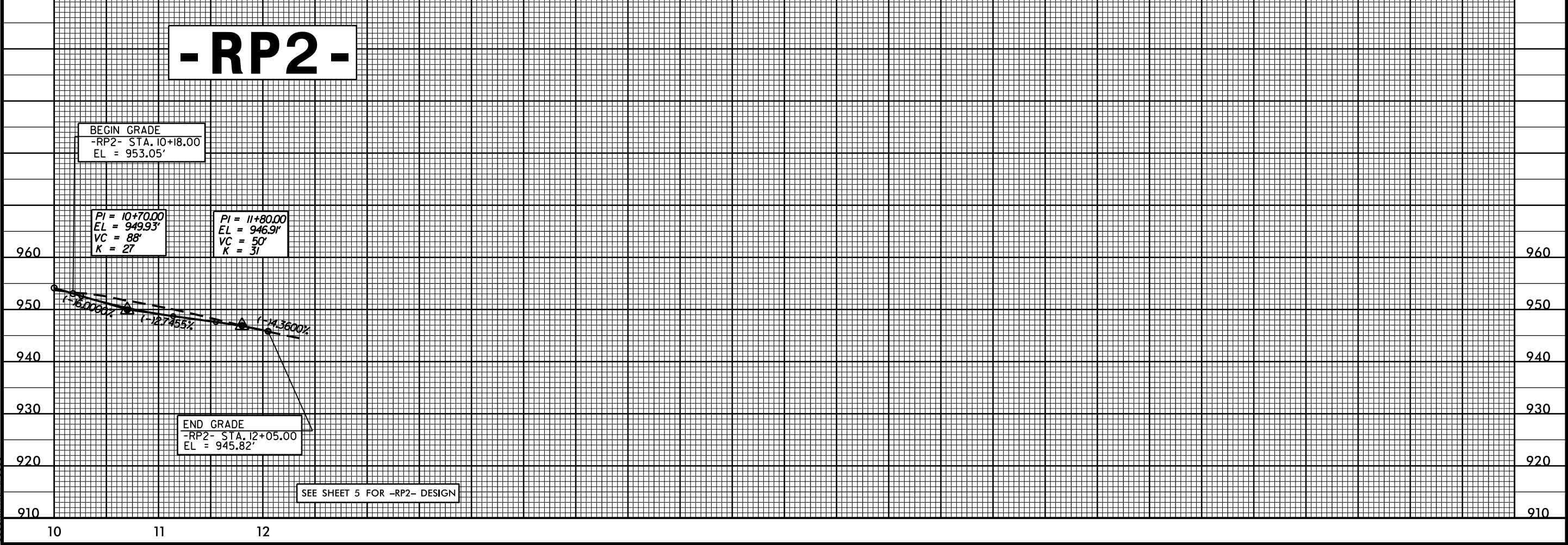
- RP1 -

DITCH LEGEND
RIGHT DITCH - - - -
LEFT DITCH - - - -

- RP1_EXT -

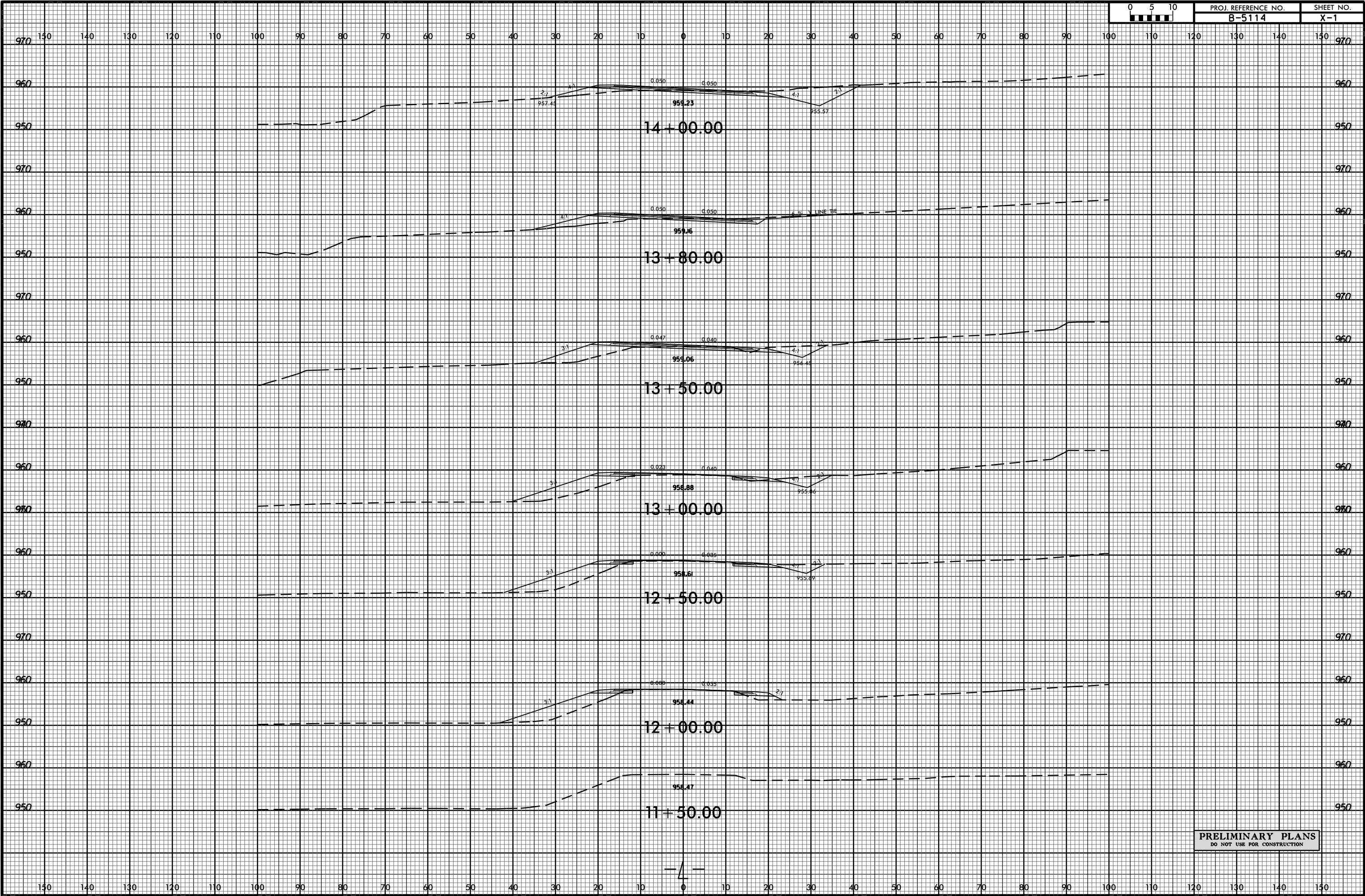


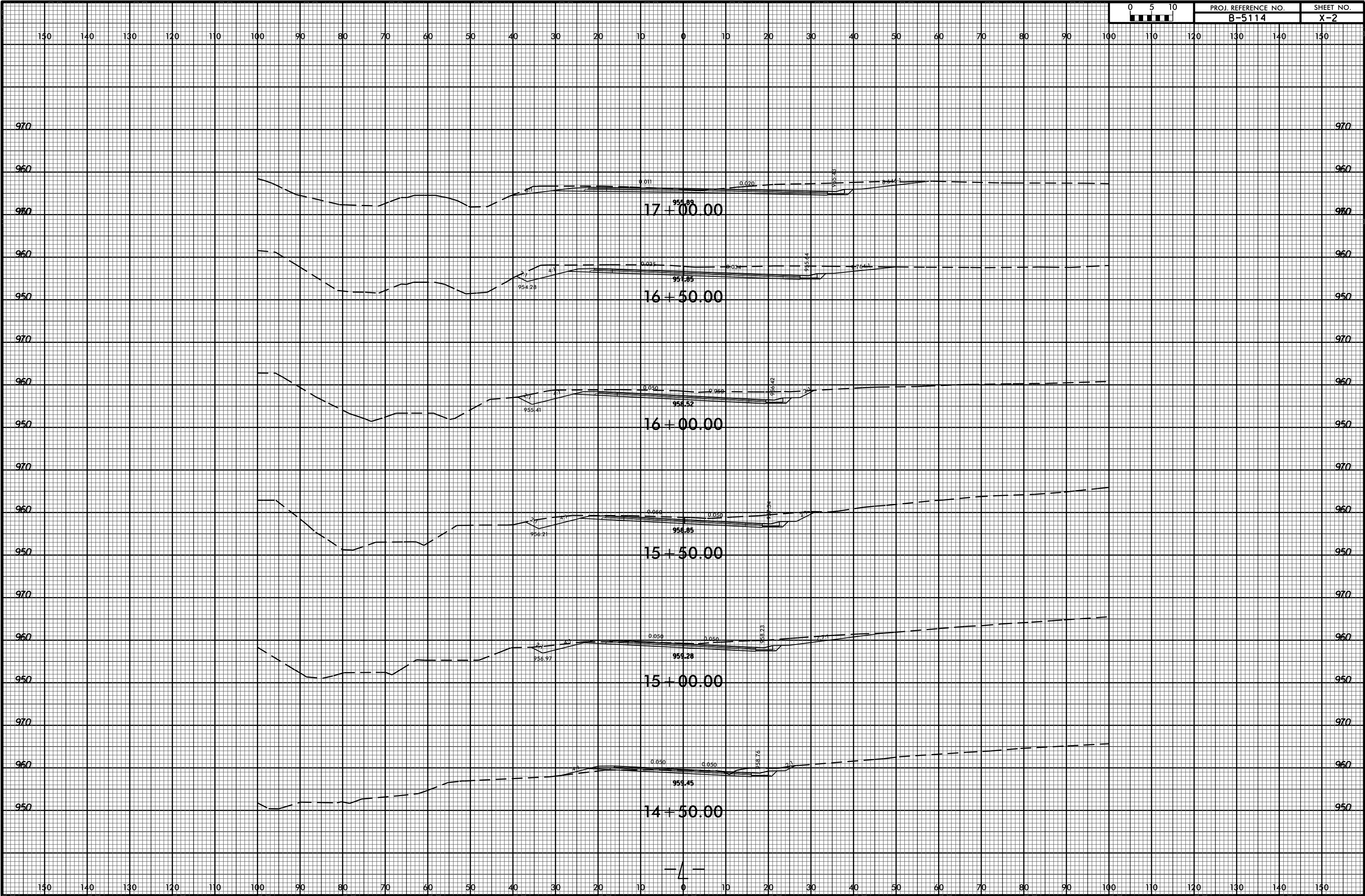
- RP2 -

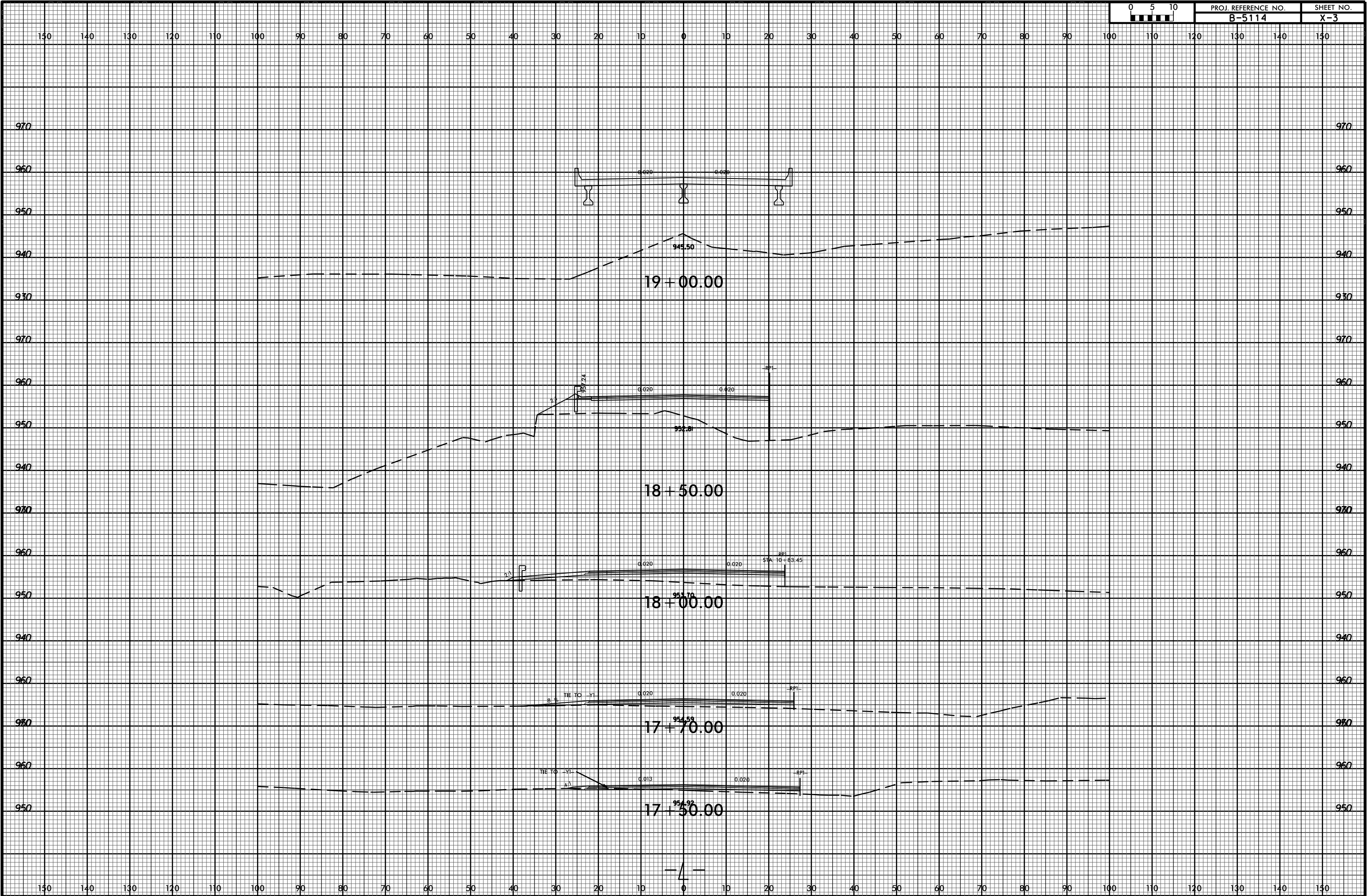


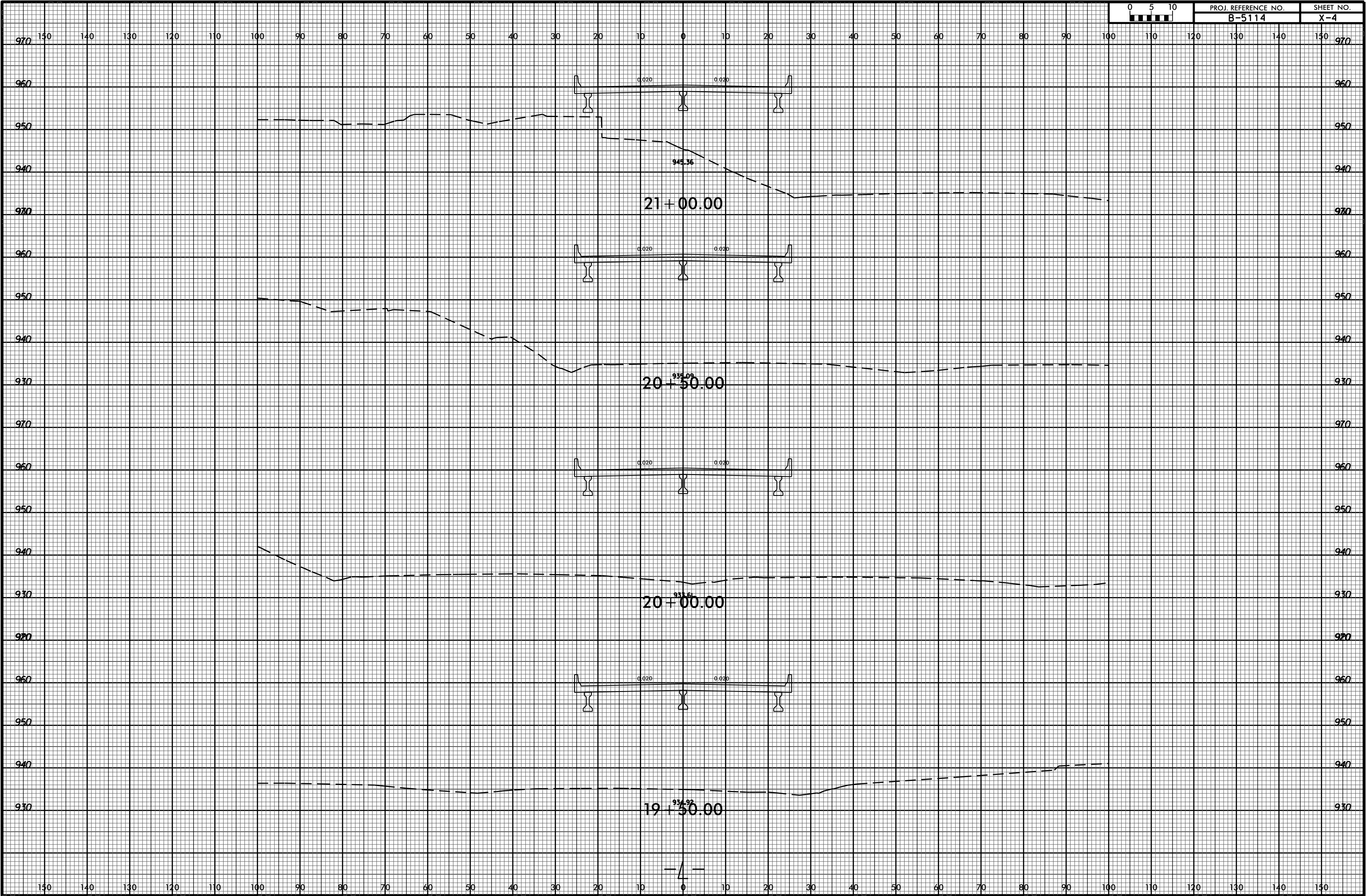
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\$\$\$\$\$ ISHAM \$\$\$\$

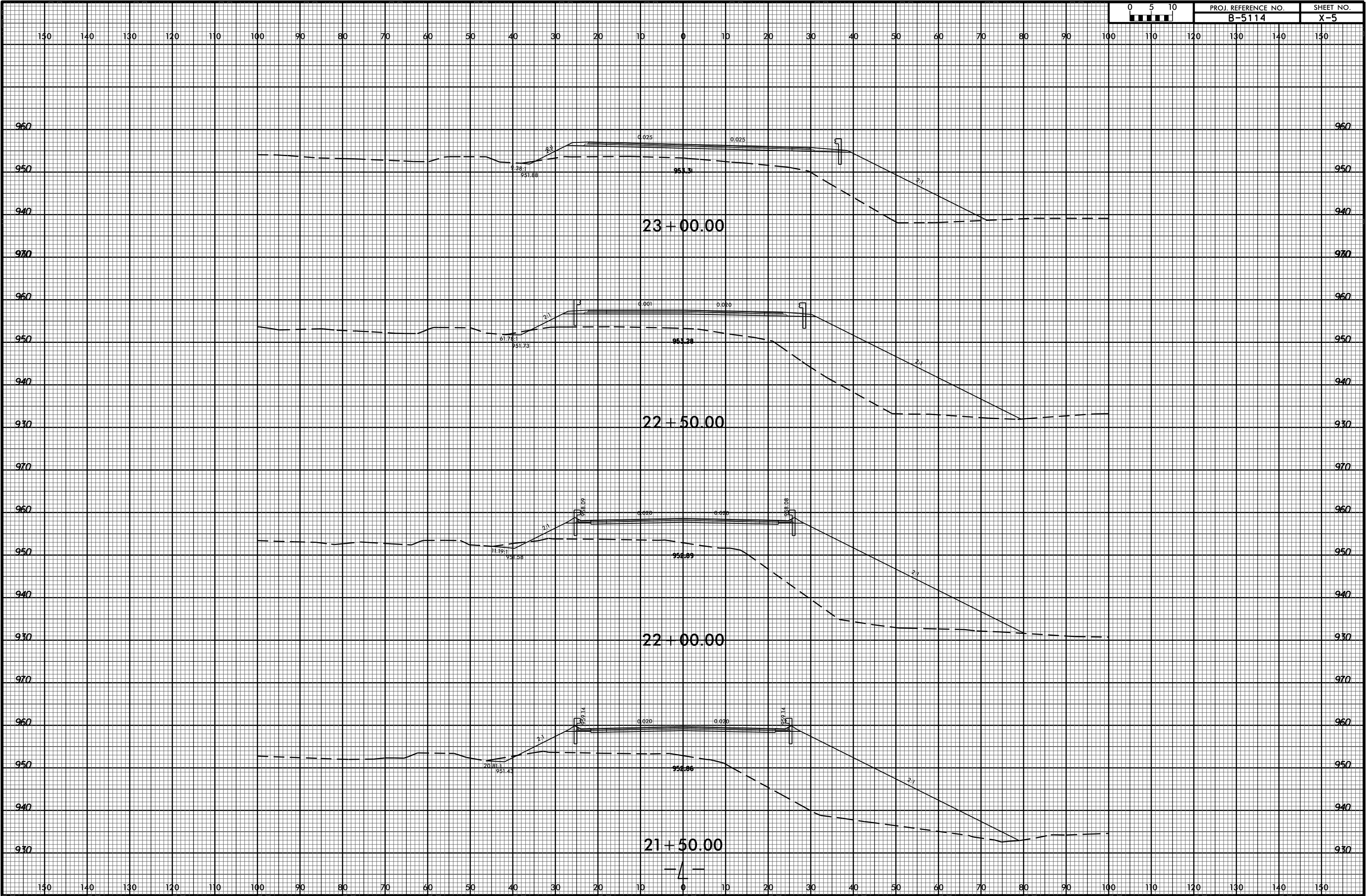
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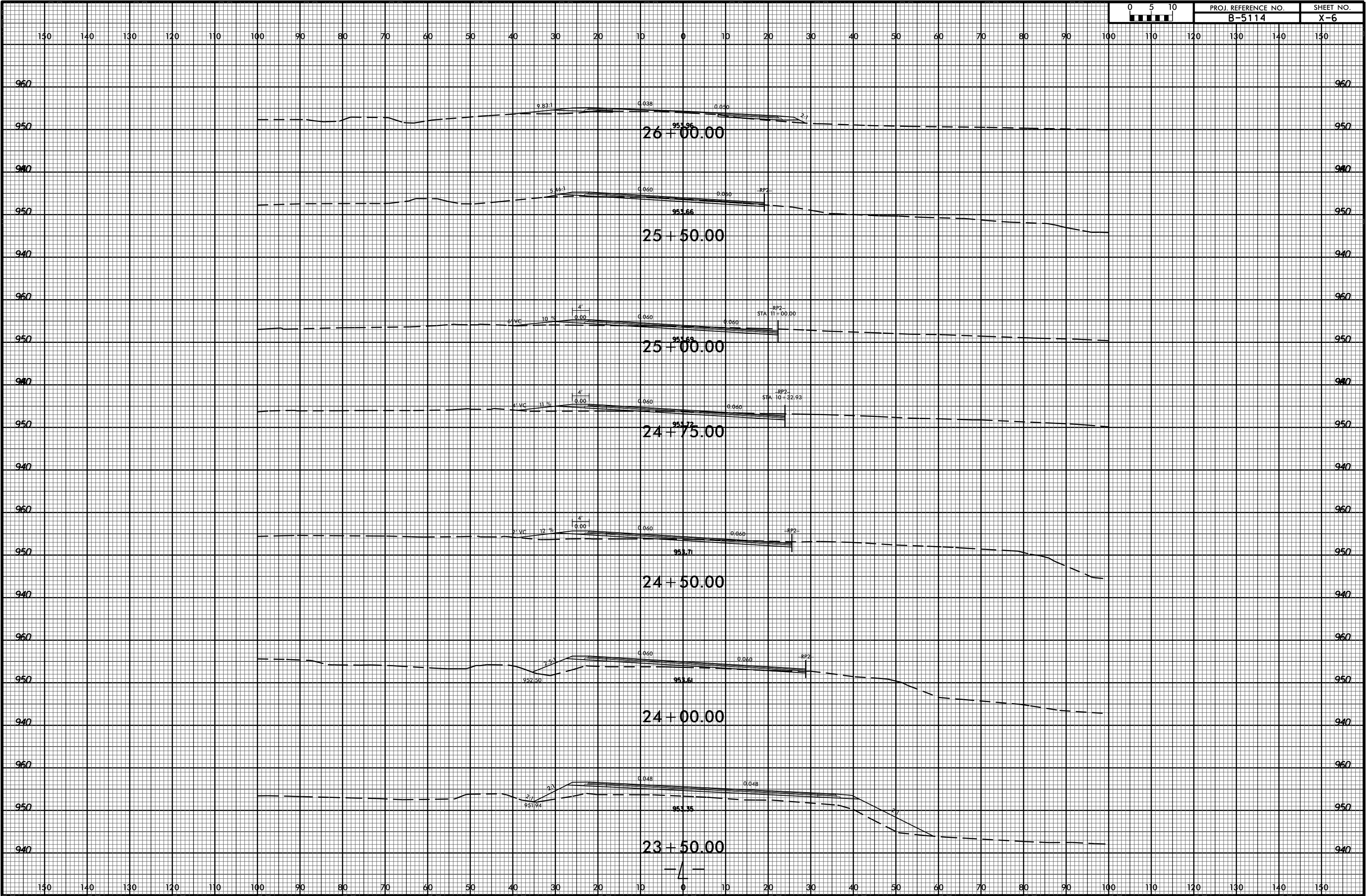


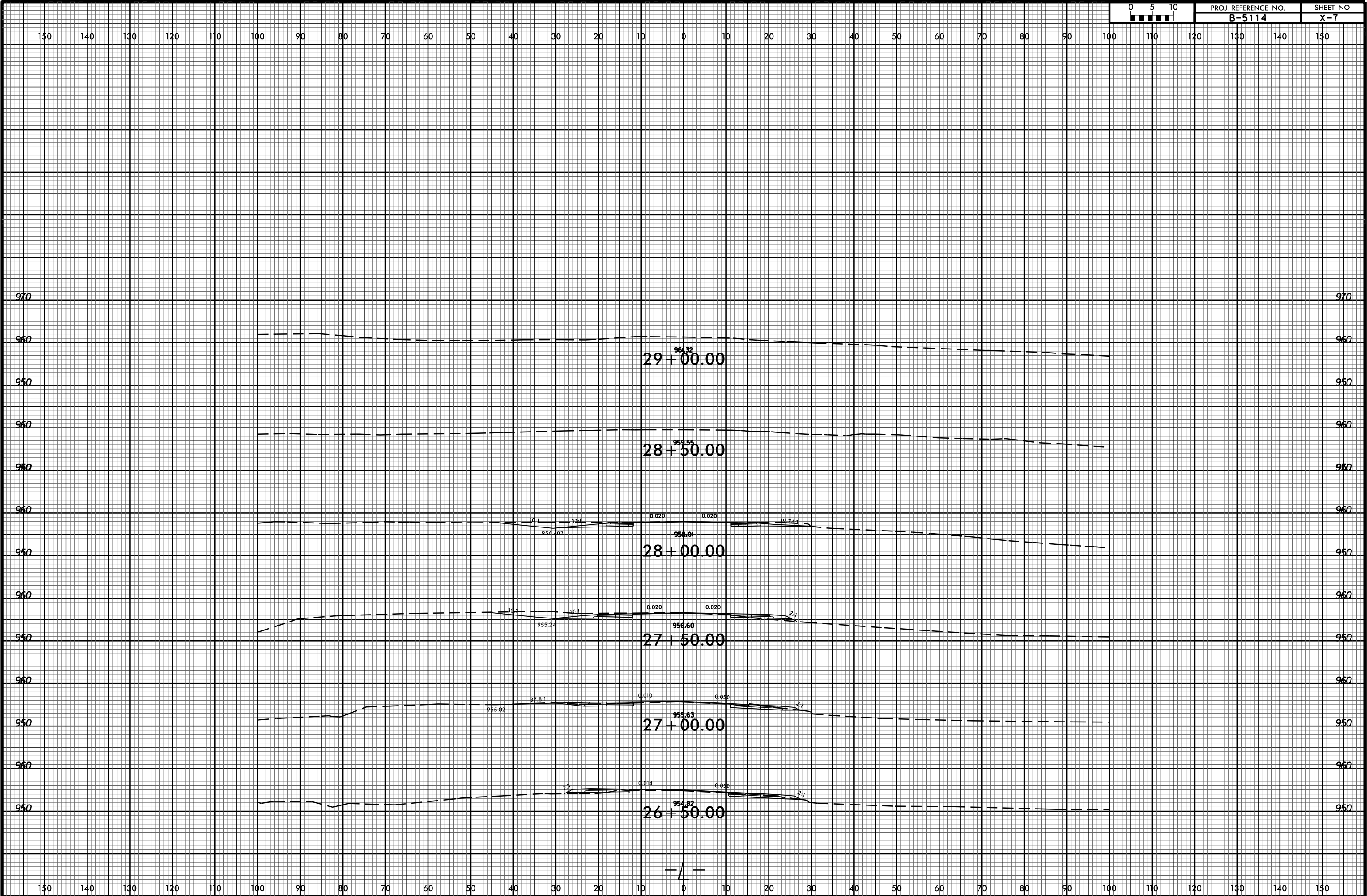


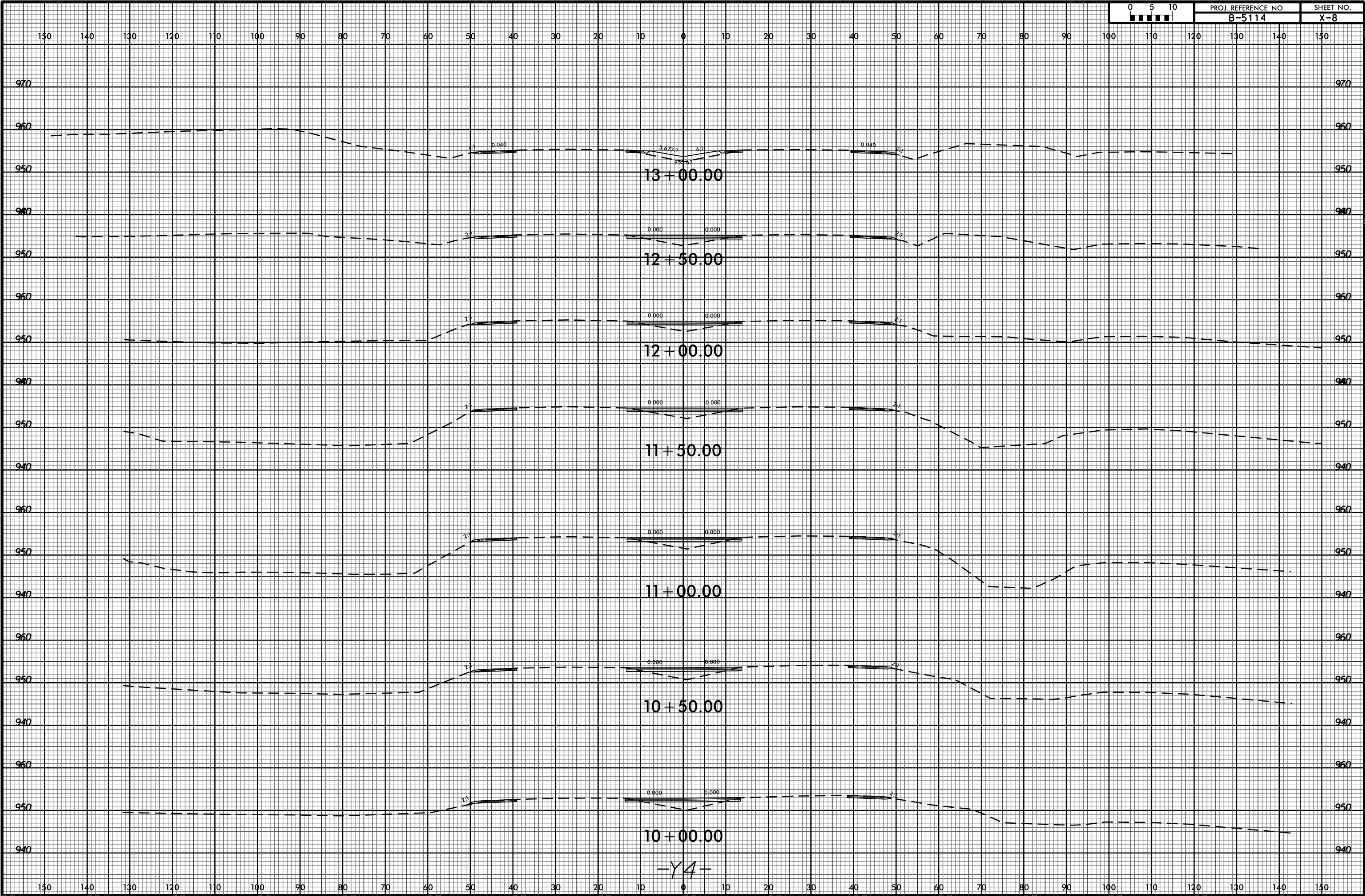


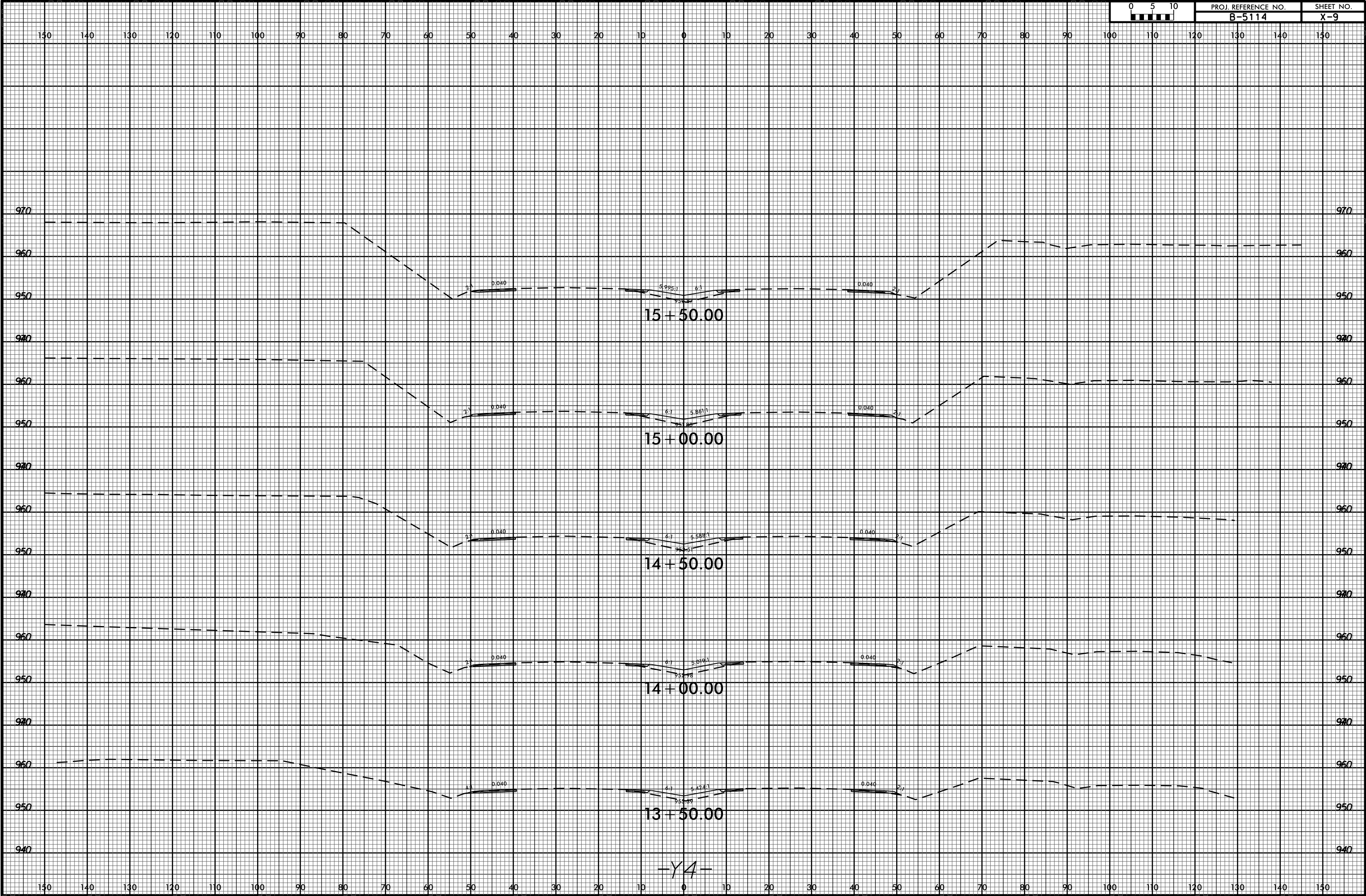


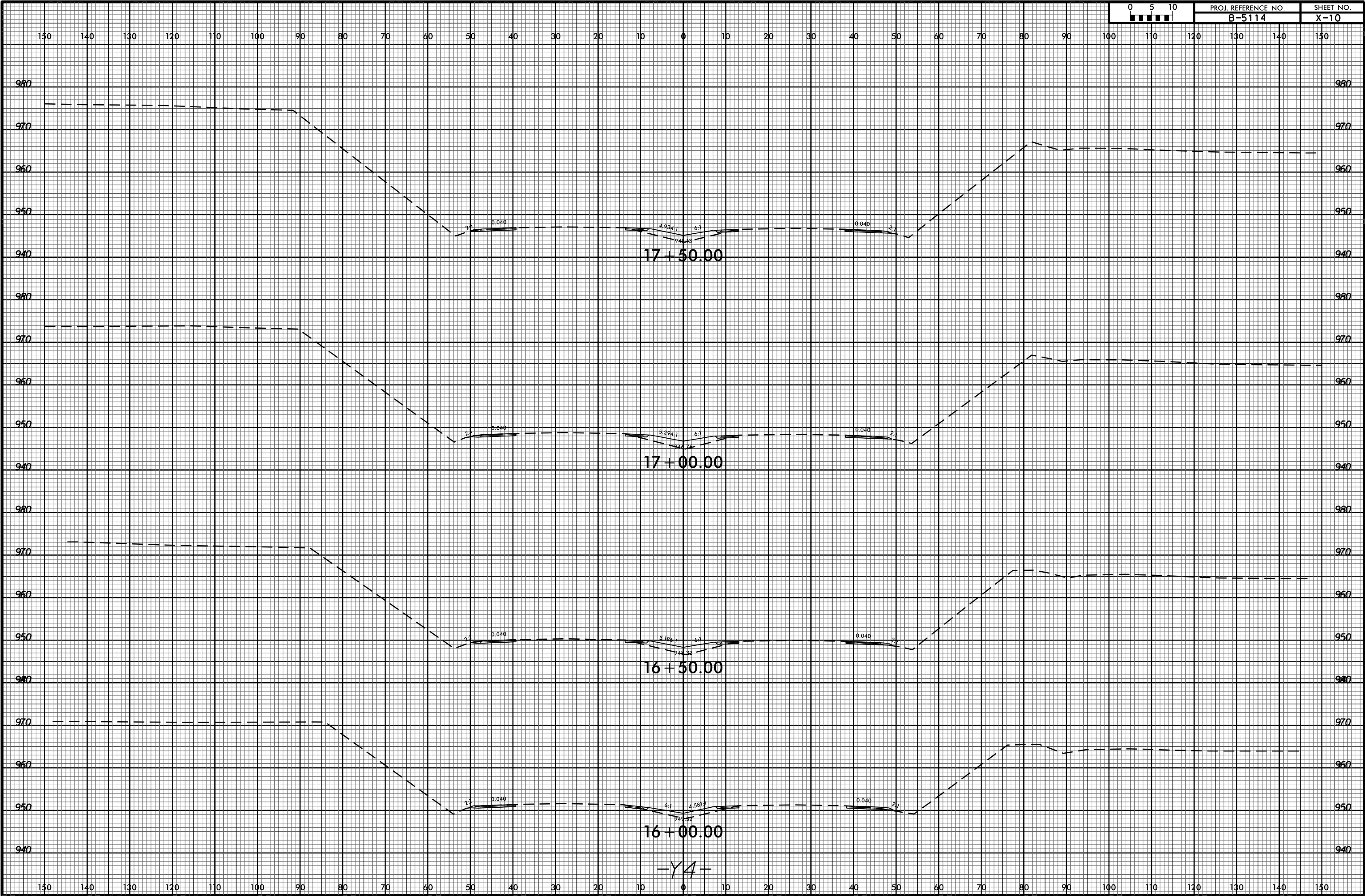
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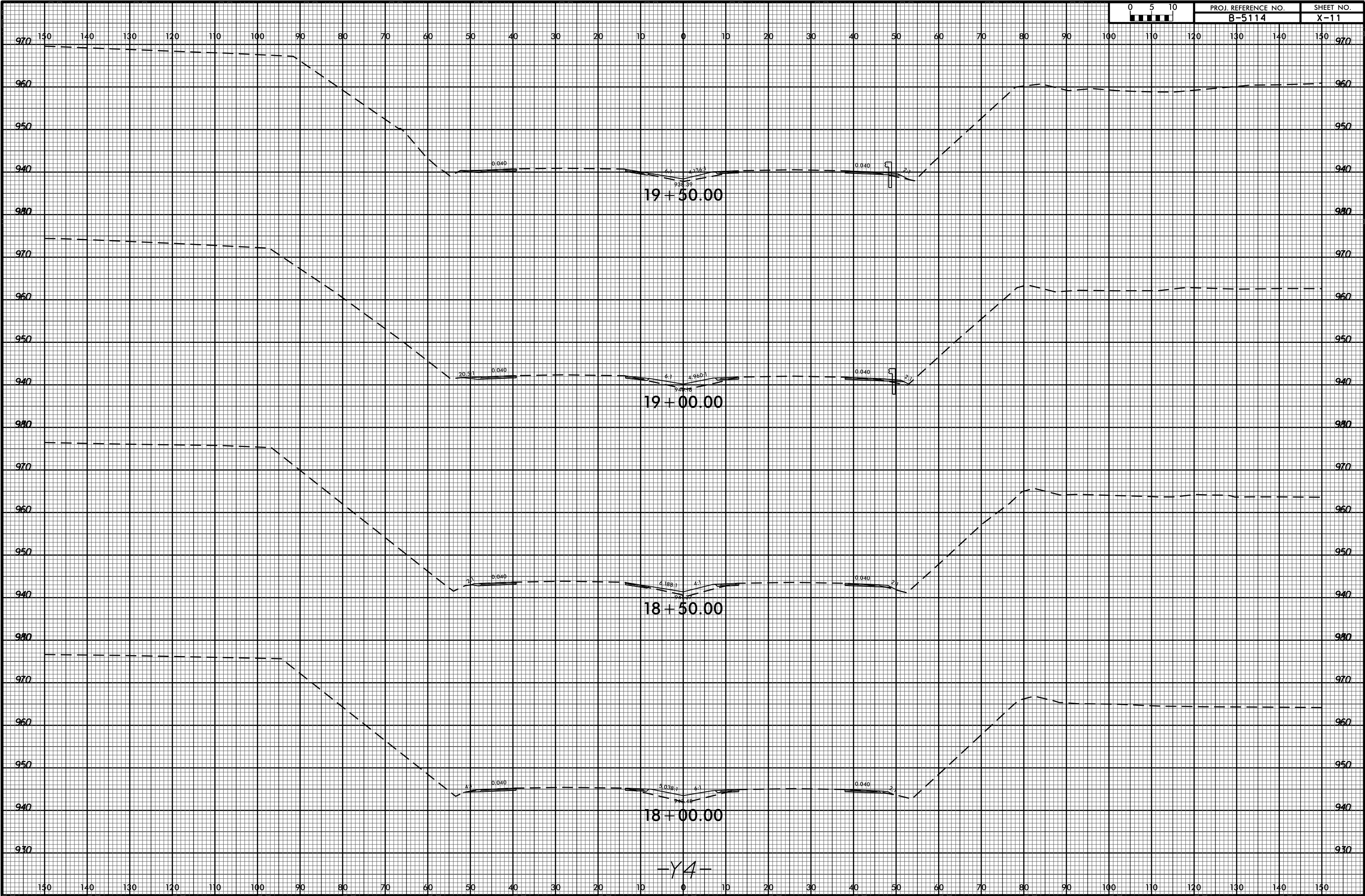


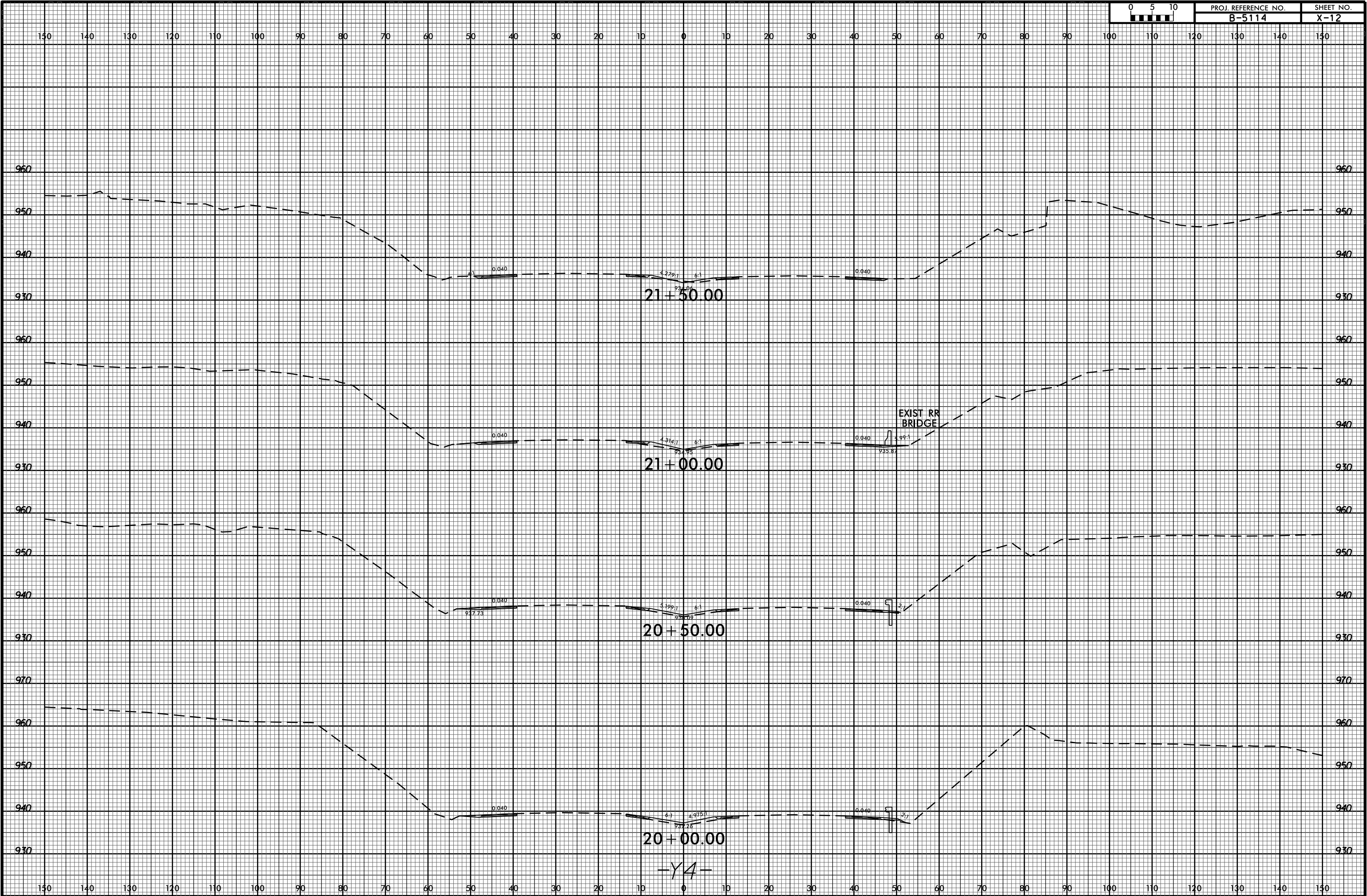


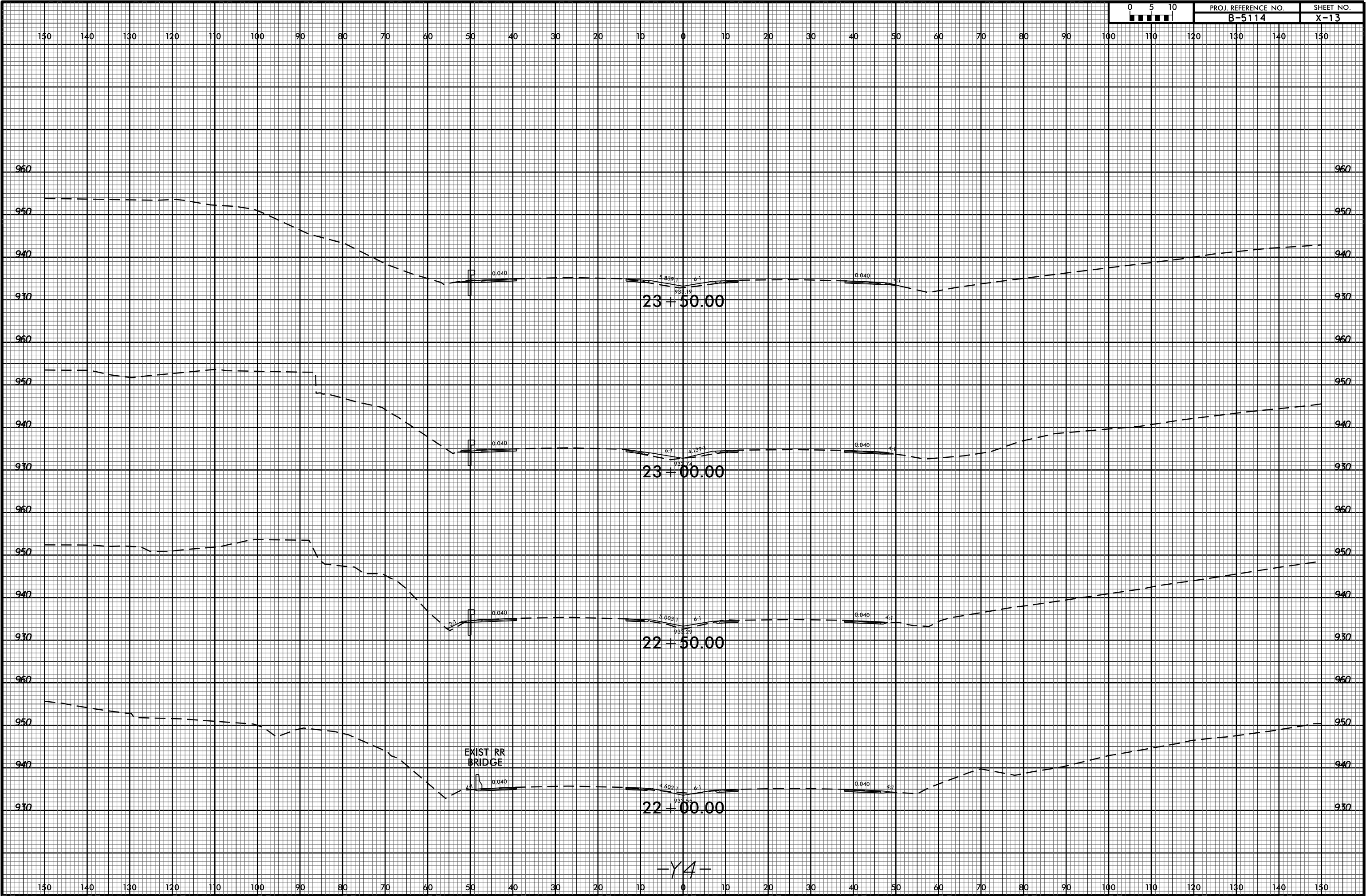


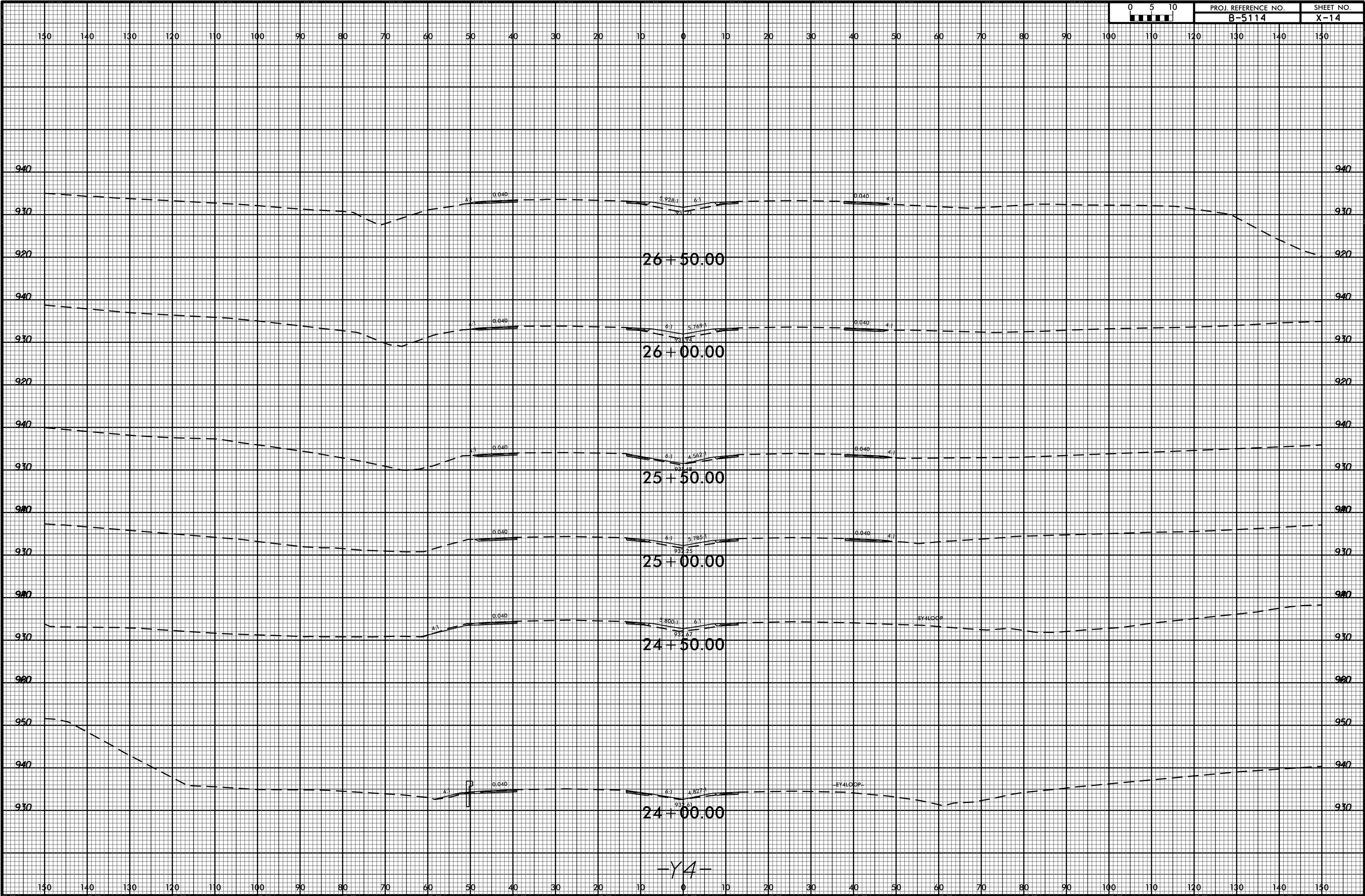




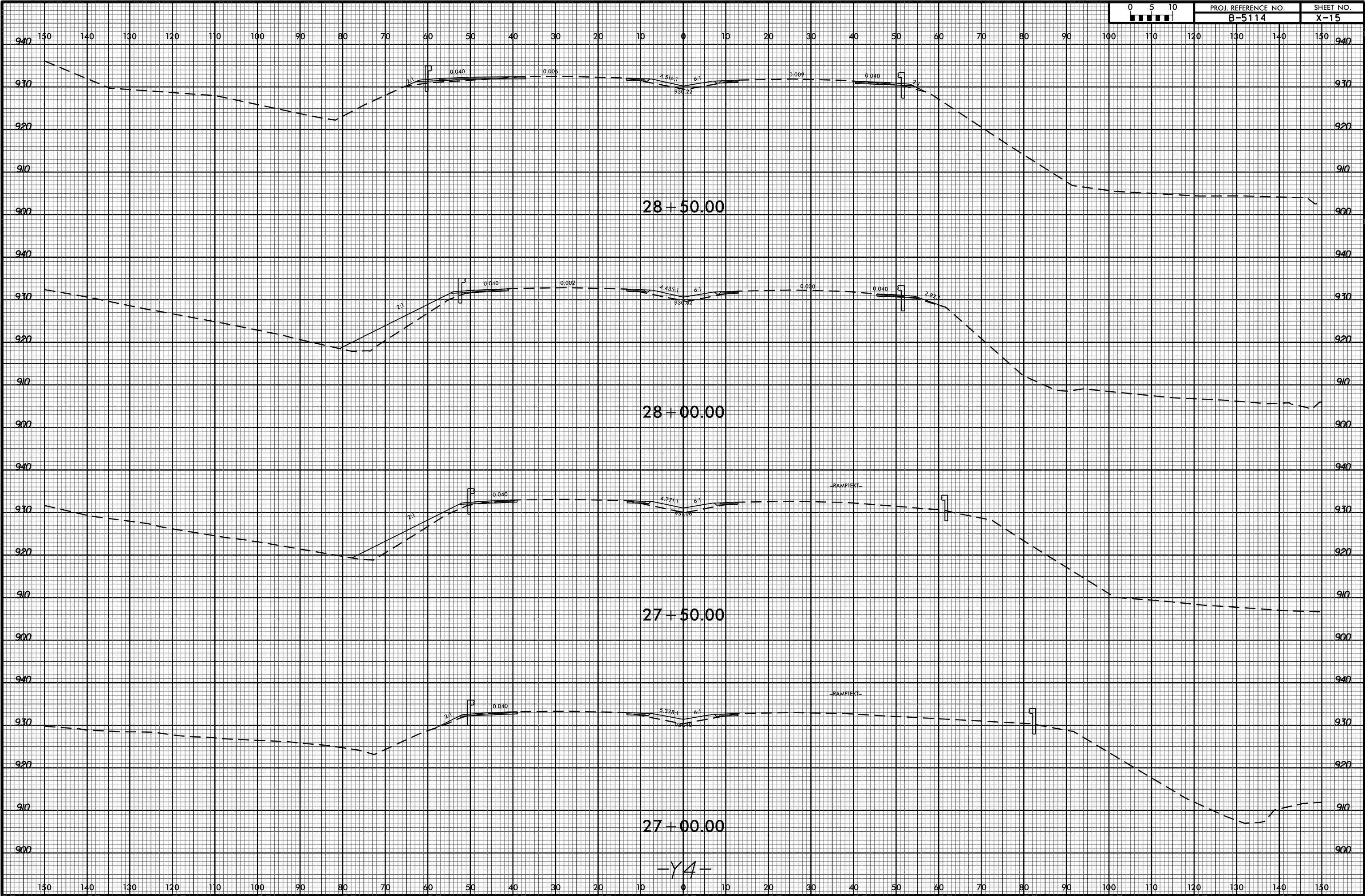




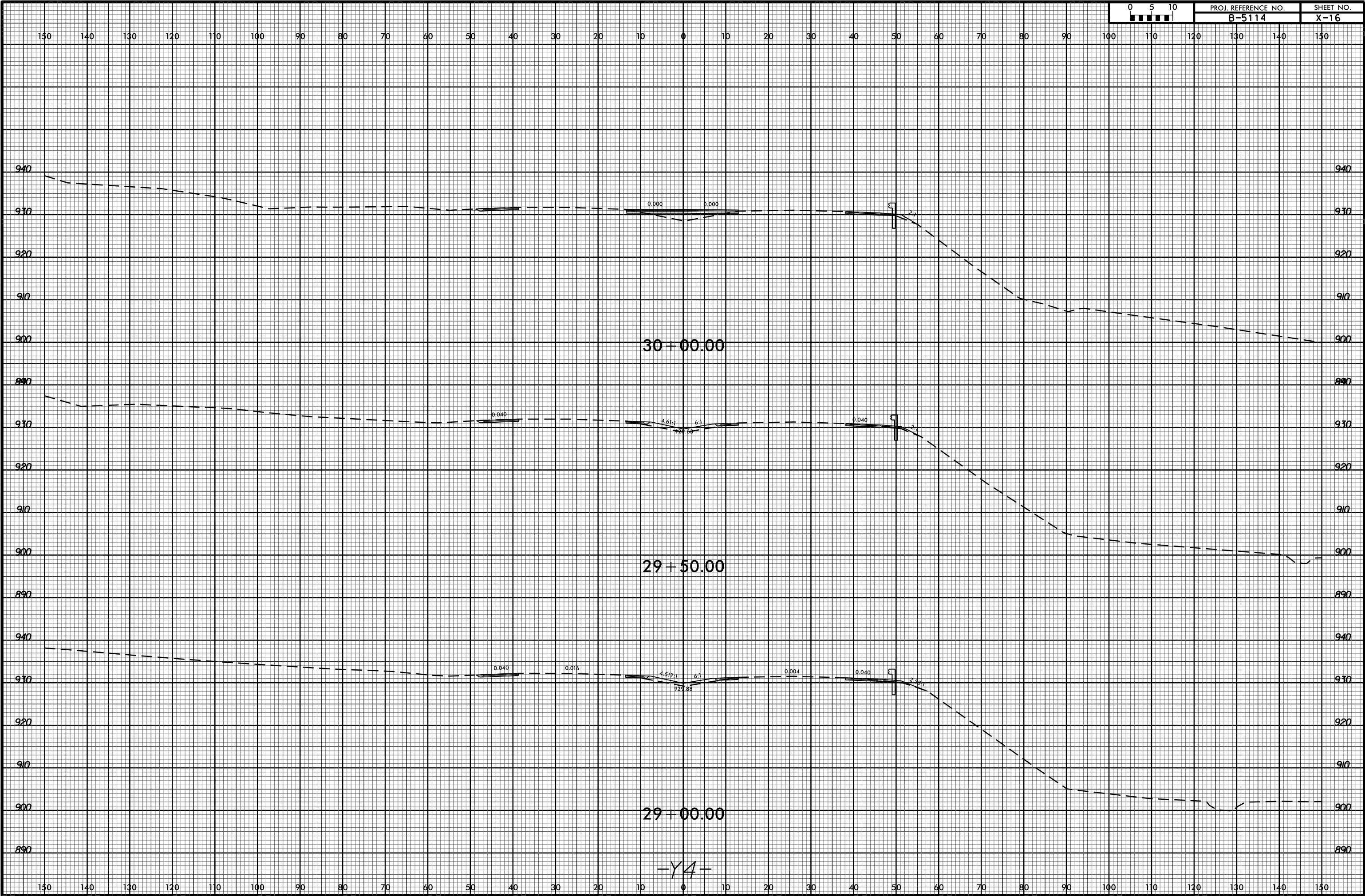




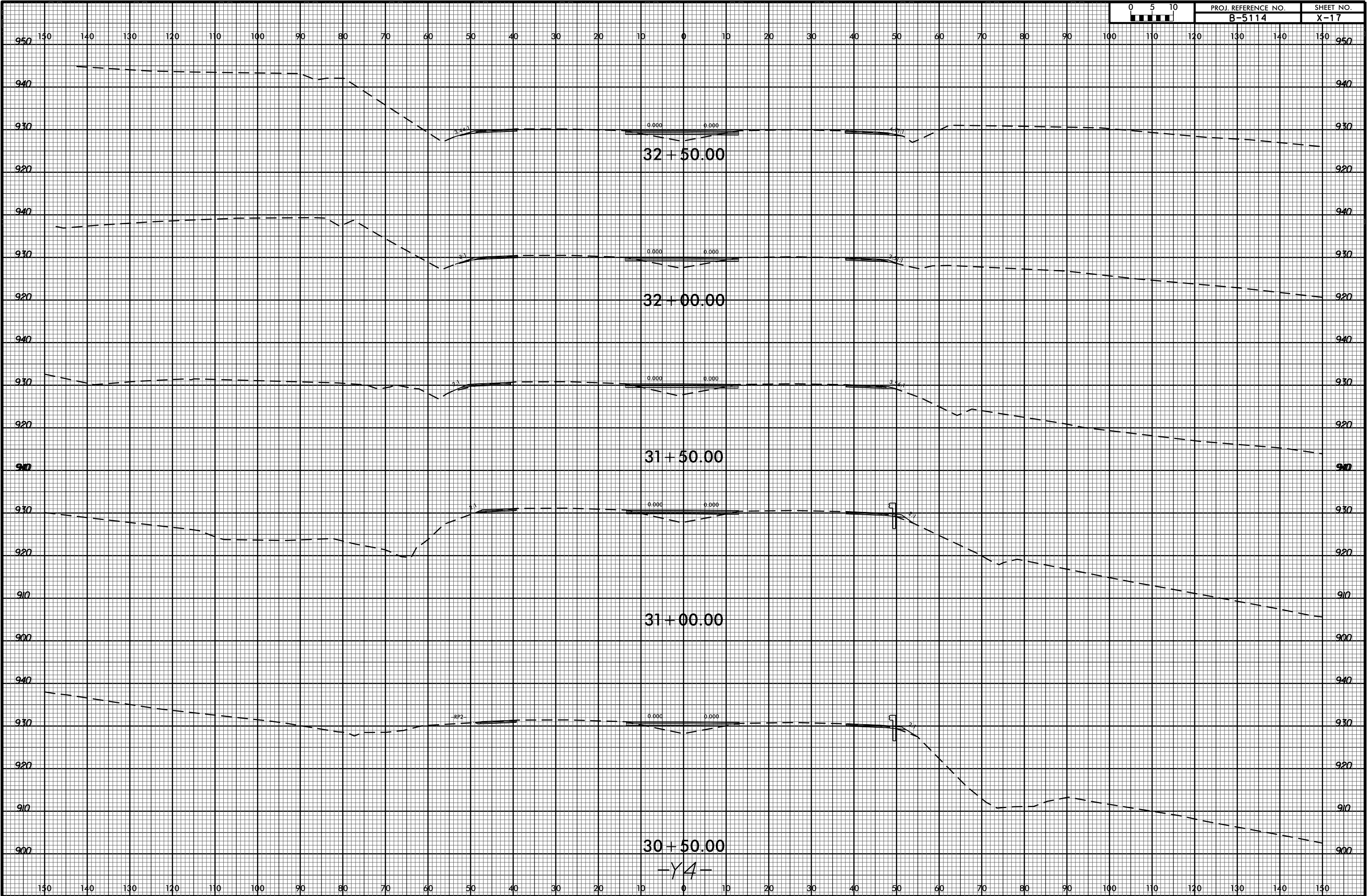
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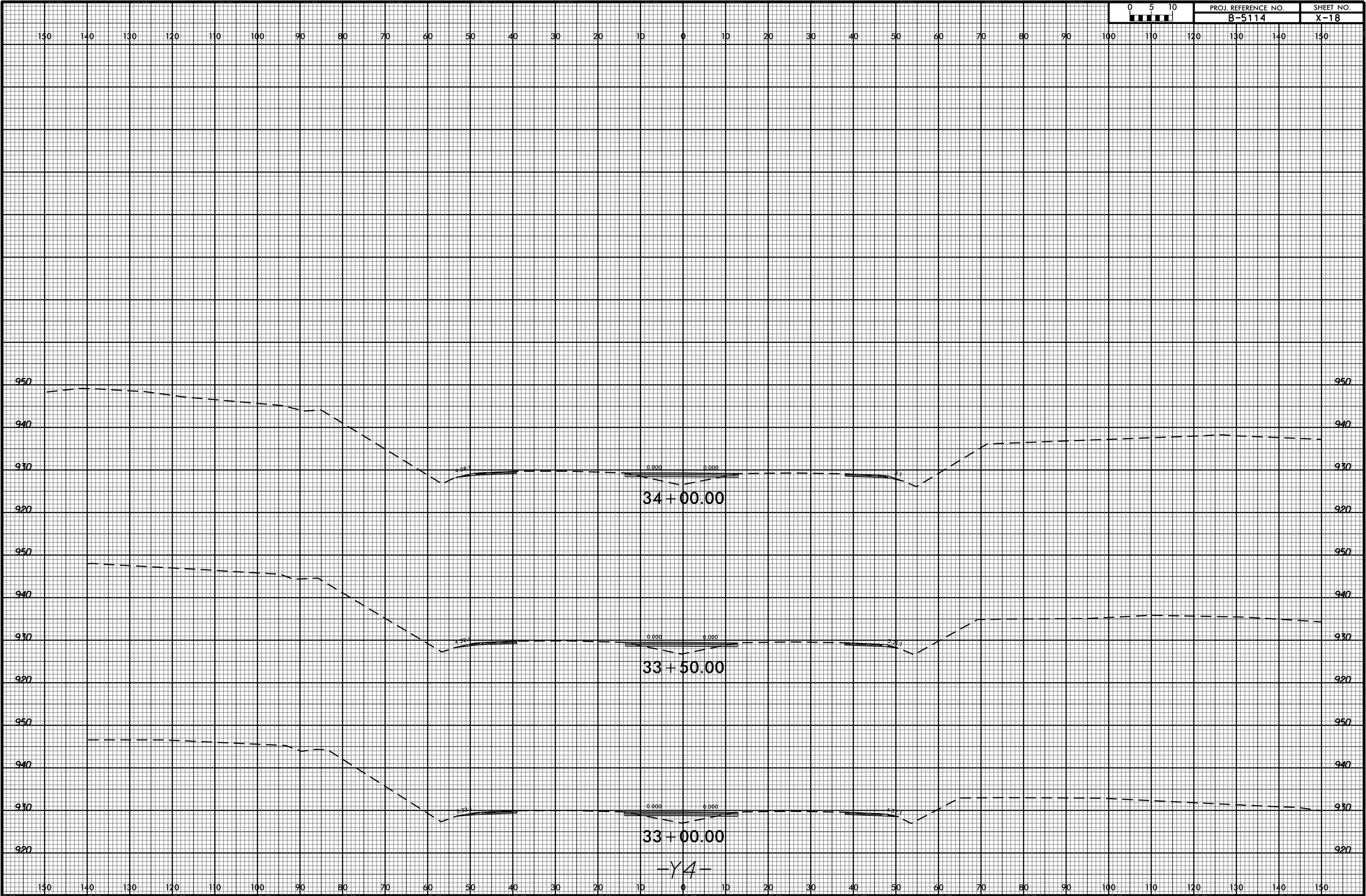


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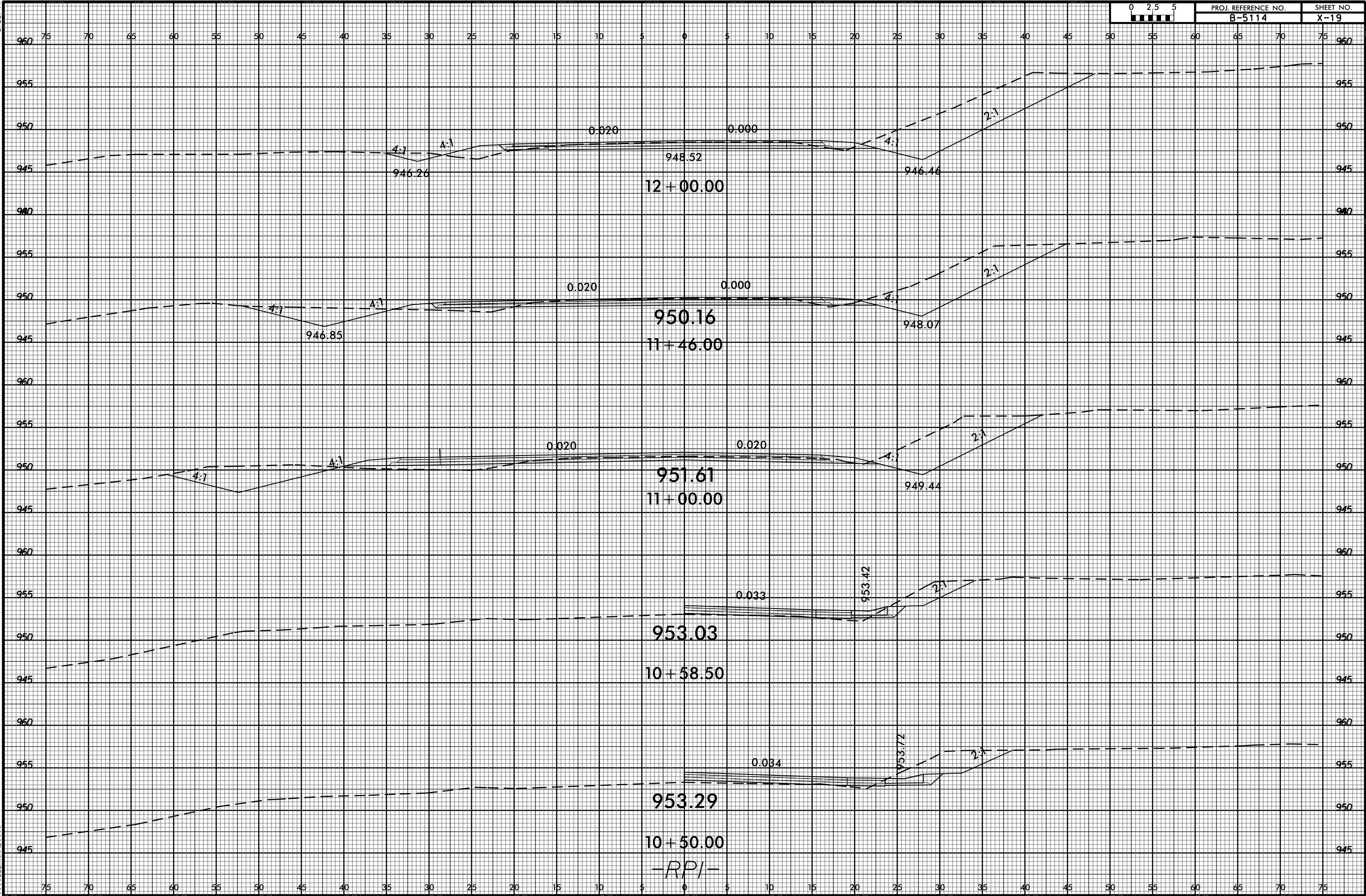


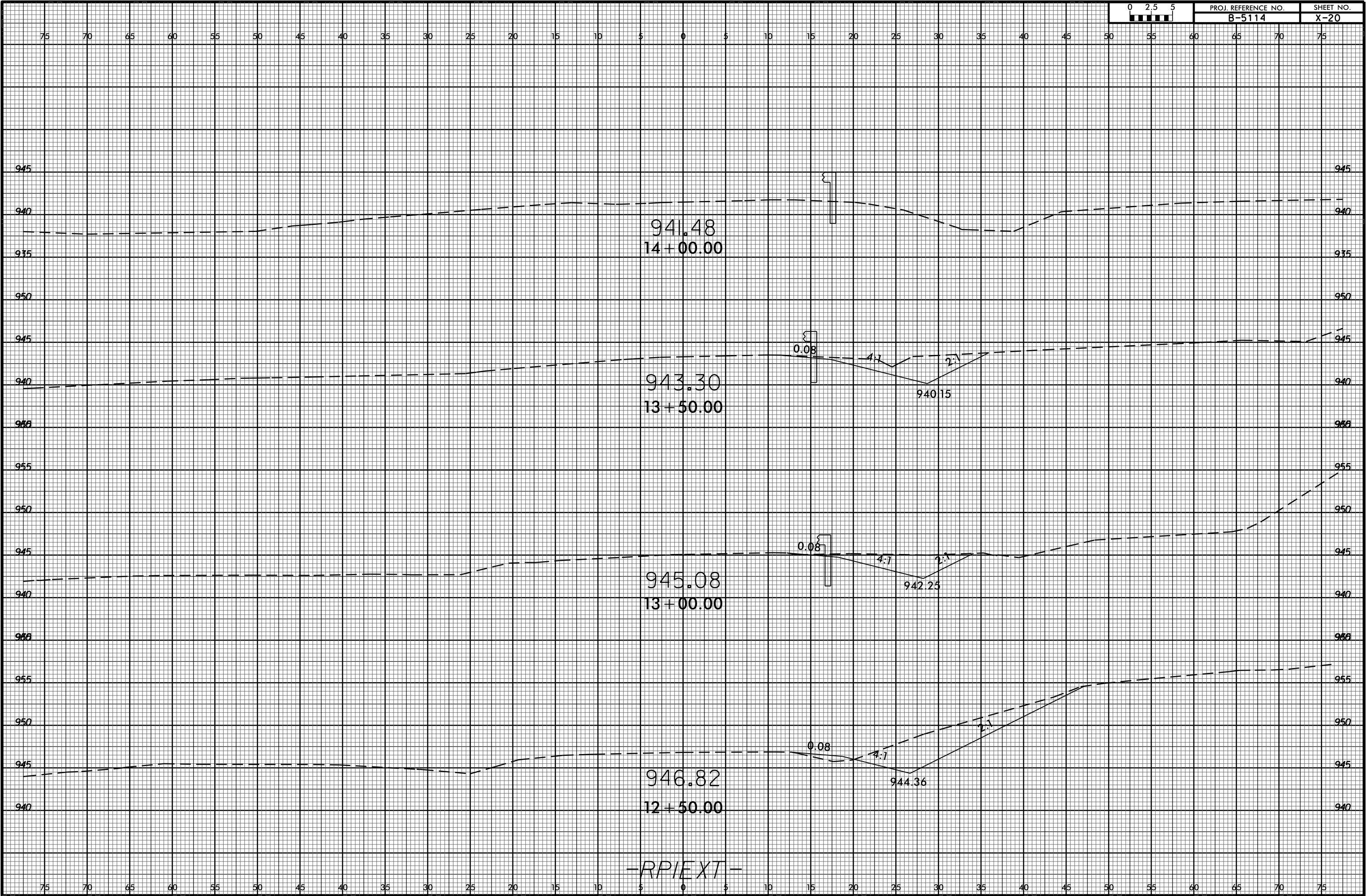
-Y4-





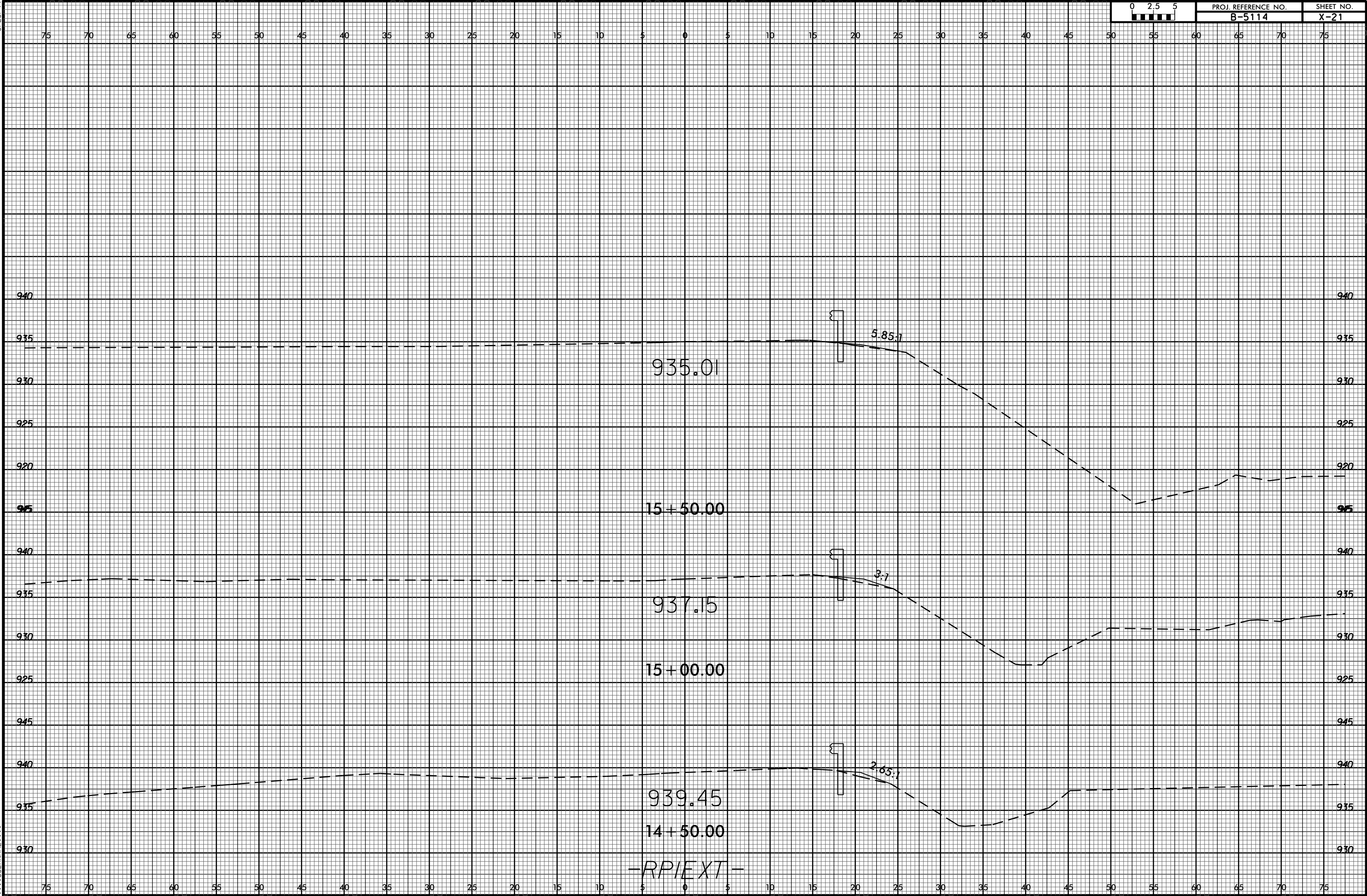
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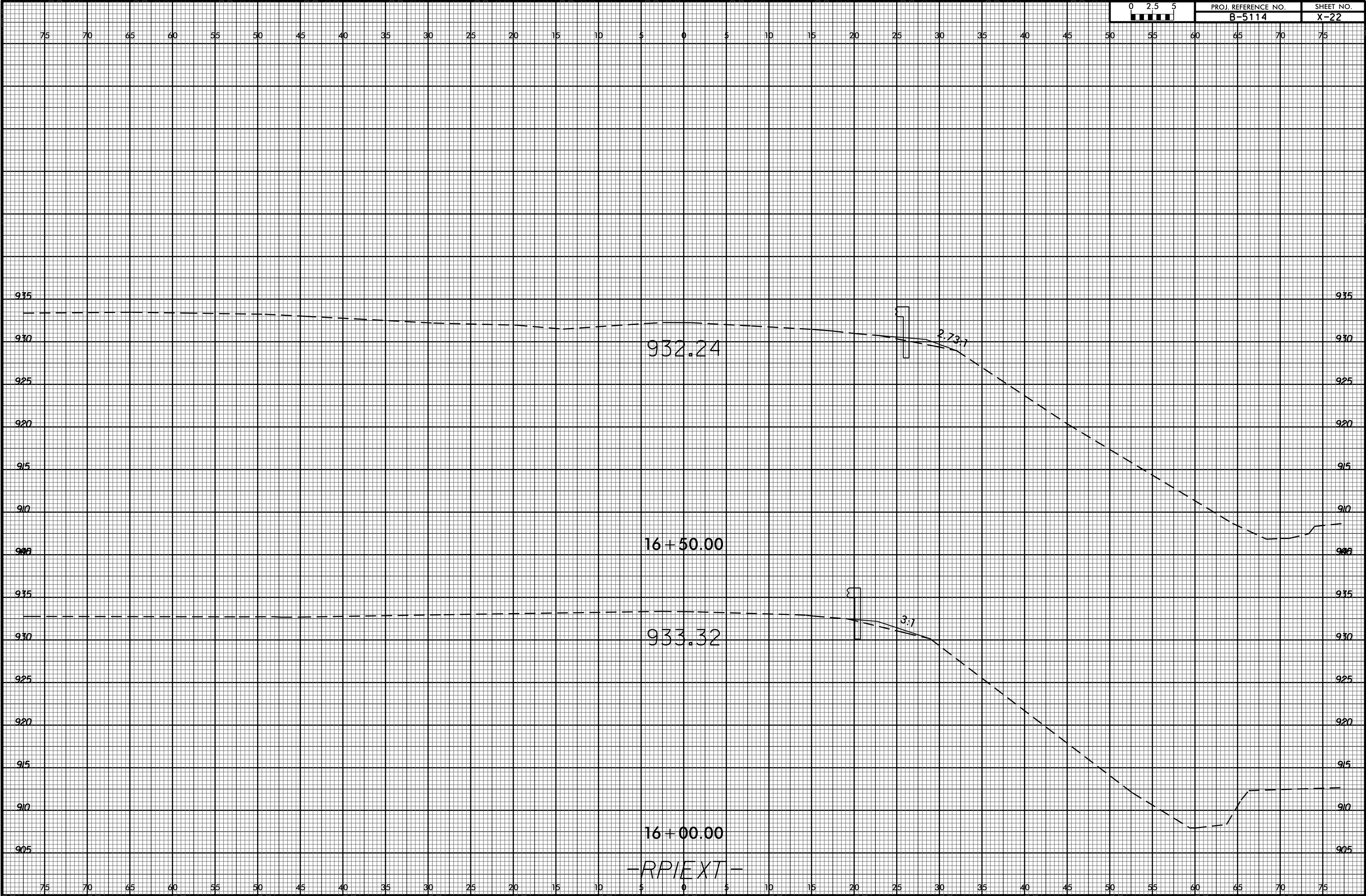


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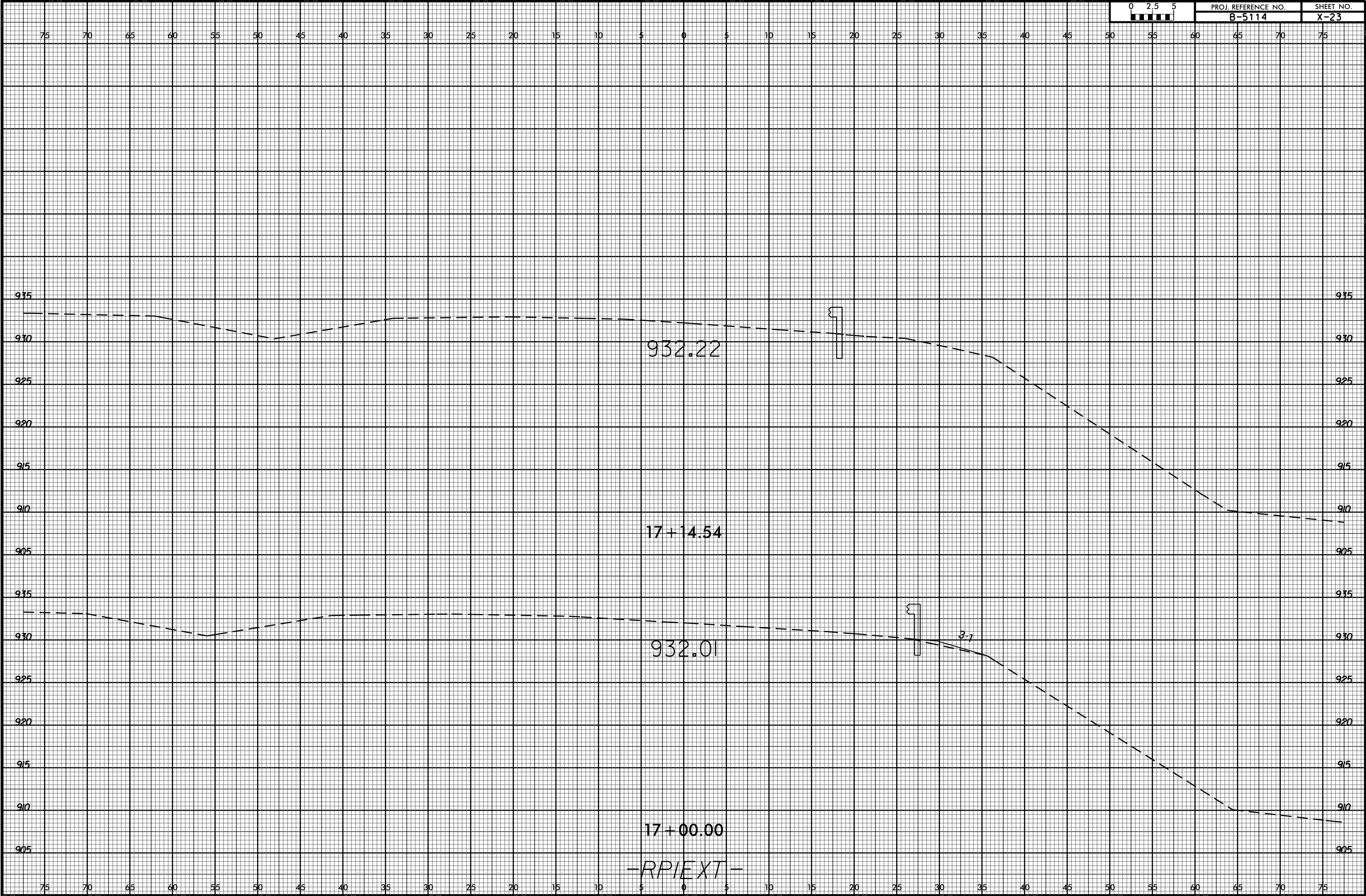
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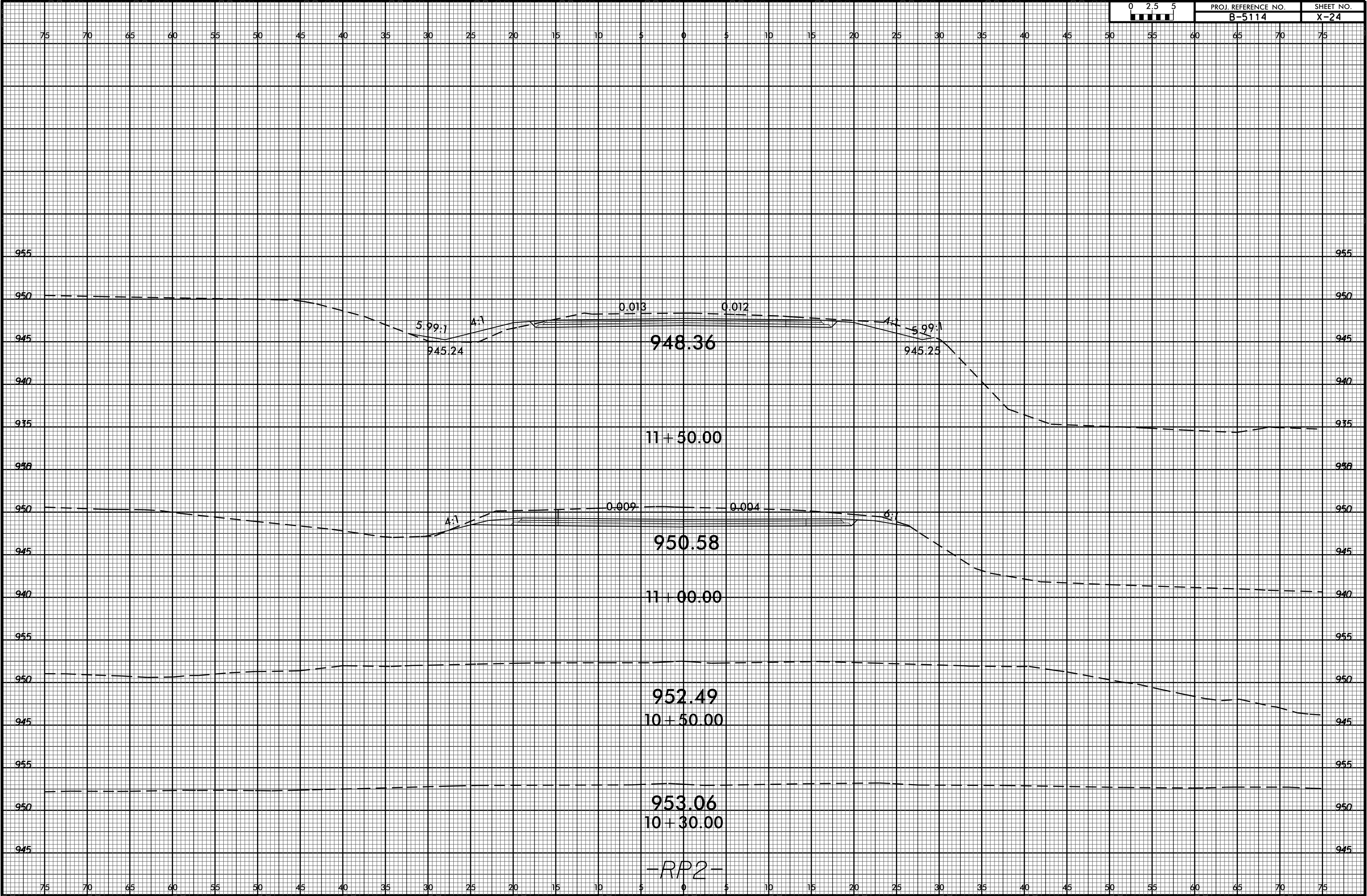
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8/23/99



8/23/99



8/23/99

