



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits

(along with corresponding Water Quality Certifications)

June 28, 2017 Ver 1.8

*Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.*

Below is a link to the DRAFT online help file.

<http://edocs.deq.nc.gov/WaterResources/0/doc/549884/Page1.aspx>

A. Processing Information

County (or Counties) where the project is located: *

Richmond

Is this project a public transportation project? *

☒ Yes ☐ No

Is this a NCDOT Project? *

☒ Yes ☐ No

(NCDOT only) T.I.P. or state project number:

R-2501C

WBS #

34437.2.3

(for NCDOT use only)

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

- ☒ Section 404 Permit (wetlands, streams and waters, Clean Water Act)
☐ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

1b. What type(s) of permit(s) do you wish to seek authorization? *

- ☒ Nationwide Permit (NWP)
☐ Regional General Permit (RGP)

Nationwide Permit (NWP) Number:

14 - Linear transportation

NWP Number Other:

List all NW numbers you are applying for not on the drop down list.

1c. Type(s) of approval sought from the DWR: *

check all that apply

- ☒ 401 Water Quality Certification - Regular
☐ Non-404 Jurisdictional General Permit

- ☐ 401 Water Quality Certification - Express
☐ Riparian Buffer Authorization

1d. Is this notification solely for the record because *
written approval is not required?
For the record only for DWR 401 Certification: ☐ Yes ☒ No
For the record only for Corps Permit: ☐ Yes ☒ No

1e. 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

Acceptance Letter Attachment

Click the upload button or drag and drop files here to attach document

R-2501C EEP Letter.pdf 330.3KB
FILE TYPE MUST BE PDF

1f. Is the project located in any of NC's twenty coastal counties? *
☐ Yes ☒ No

B. Applicant Information

1a. Who is the Primary Contact? *

NCDOT

1b. Primary Contact Email: *

driffey@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx
(919)707-6151

1d. Who is applying for the permit?

☒ Owner ☐ Applicant (other than owner) ☐ Agent/Consultant
(Check all that apply)

2. Owner Information

2a. Name(s) on recorded deed:

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country

2e. Telephone Number:

(xxx)xxx-xxxx

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

Widening of US 1 from 1.2 miles north of SR 1606 to south of SR 1001

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Rockingham

1d. Driving directions *

If it is a new project and can not easily be found in a GPS mapping system. Please provide directions.

Coordinates: 34.973921, -79.624365

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country

2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Latitude: *

34.973921

ex: 34.208504

Longitude: *

-79.624365

-77.796371

3. Surface Waters

3a. Name of the nearest body of water to proposed project: *

UT Chock Creek

3b. Water Resources Classification of nearest receiving water: *

WSIII

[Surface Water Lookup](#)

3c. What river basin(s) is your project located in? *

Yadkin-PeeDee

4. Project Description

4a. 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 within the vicinity is predominately residential but includes some areas of general commercial use.

4b. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)

Click the upload button or drag and drop files here to attach document

File type must be pdf

4c. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)

Click the upload button or drag and drop files here to attach document

File type must be pdf

4d. List the total estimated acreage of all existing wetlands on the property:

0.25 acres

4e. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial)

0 feet

4f. Explain the purpose of the proposed project:

To reduce congestion in downtown Rockingham by diverting through traffic and truck traffic from local streets and improve mobility on the designated US 1 Strategic Highway Corridor.

4g. Describe the overall project in detail, including the type of equipment to be used:

The project involves widening US 1 to a five-lane facility from north of Fox Road (SR 1606) to the northern terminus at Marston Road (SR 1001). The proposed project is approximately 3.6 miles long. Standard road building equipment, such as trucks, dozers, and cranes will be used.

4h. Please upload project drawings for the proposed project.

Click the upload button or drag and drop files here to attach document

R-2501C Permit Plans Package.pdf

16.92MB

File type must be pdf

5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? *

☒ Yes

☐ No

☐ Unknown

Comments:

5b. If the Corps made a jurisdictional determination, what type of determination was made? *

☐ Preliminary

☒ Approved

☐ Unknown

Corps AID Number:

Example: SAW-2017-99999

SAW-1995-00459

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known):

Jeff Benton

Agency/Consultant Company:

ESI

Other:

5d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.

August 17, 2011

5d1. Jurisdictional determination upload

Click the upload button or drag and drop files here to attach document

R-2501 USACE JD.pdf

883.65KB

File type must be PDF

6. Project History

6a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past? *

☒ Yes

☐ No

☐ Unknown

6b. If yes, please give the DWR Certification number or the Corps Action ID (exp. SAW-0000-00000).

DWR - 20141132v.1

USACE - SAW-1995-00459

Project History Upload

Click the upload button or drag and drop files here to attach document

R-2501C 401 Permit.pdf

238.3KB

R-2501C 404 NW 14 Permit.pdf

720KB

File type must be PDF

7. Future Project Plans

7a. Is this a phased project? *

☐ Yes

☒ No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with 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. Site # - Reason for impact	2b. Impact type *	2c. Type of wetland	2d. Wetland name	2e. Forested	2f. Jurisdiction type	2g. Impact area
1 - mechanized clearing Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporary (T)	Headwater Forest		Yes	Corps (404, 10) or DWR (401, other)	0.040 (acres)
1 - fill Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporary (T)	Headwater Forest		Yes	Corps (404, 10) or DWR (401, other)	0.030 (acres)
2 - mechanized clearing Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporary (T)	Headwater Forest		Yes	Corps (404, 10) or DWR (401, other)	0.100 (acres)
2 - fill Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporary (T)	Headwater Forest		Yes	Corps (404, 10) or DWR (401, other)	0.080 (acres)

2g. Temporary Wetland Impact

0.000

2g. Permanent Wetland Impact

0.250

2g. Total Wetland Impact

0.250

2h. Comments:

Impacts have not changed from the previously issued permits.

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.

** All Perennial or Intermittent streams must be verified by DWR or delegated local government.

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.

5. Pond or Lake Construction

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

6. Buffer Impacts (for DWR)

If project will impact a protected riparian buffer, then complete the chart below. Individually list all buffer impacts below.

E. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: *

Where possible shifting the alignment was incorporated to avoid water resources, crossing streams perpendicularly, or crossing the narrowest areas of wetland systems. The project involves widening an existing road. Other than no build the minimal effects to one wetland on this project is unavoidable.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: *

NCDOT Best Management Practices for Construction and Maintenance Activities and Best Management Practices for the Protection of Surface Waters will be employed.

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

2c. If yes, mitigation is required by (check all that apply):

☐ DWR ☒ Corps

2d. If yes, which mitigation option(s) will be used for this project?

☐ Mitigation bank ☒ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation

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:

(linear feet)

4c. If using stream mitigation, stream temperature:

4d. Buffer mitigation requested (DWR only):

(square feet)

4e. Riparian wetland mitigation requested:

(acres)

0.25

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

F. Stormwater Management and Diffuse Flow Plan (required by DWR)

1a. Does this project require a Stormwater Management Plan?

☒ Yes ☐ No

1b. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan:

See attached Permit Drawings

1c. What is the overall percent imperviousness of this project?

%

1d. Who will be responsible for the review of the Stormwater Management Plan? *

☐ Certified Local Government

☐ DWR 401 & Buffer Permitting Branch

☐ DEMLR Stormwater Review

☒ DWR Transportation Permitting Branch

2. Diffuse Flow Plan

2a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

☐ Yes ☒ No

If no, explain why:

Not in a buffer basin - Yadkin Pee Dee

5. DWR 401 Stormwater Review

5a. Is the Stormwater Management Plan (including BMP Supplemental Forms and Operation and Maintenance Agreements) attached?

☐ Yes ☐ No

Stormwater Management Plan Upload

Click the upload button or drag and drop files here to attach document

file type must be pdf

G. Supplementary Information

1. Environmental Documentation

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.) *

☒ Yes ☐ No

NEPA or SEPA Final Approval Letter

Click the upload button or drag and drop files here to attach document

FILE TYPE MUST BE PDF

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR 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 (DWR 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 “no,” provide a short narrative description.

Due to the minimal transportation impact resulting from this widening, 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 (DWR Requirement)

4a. Describe, in detail, the treatment methods and dispositions (non-discharge or discharge) of wastewater generated from the proposed project. If the wastewater will be treated at a treatment plant, list the capacity available at that plant.

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

5d. Is this a DOT project located within Division's 1-8? *

- ☒ Yes
☐ No

5i. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? *

NC Natural Heritage Program data, and USFWS website. NCDOT has received USFWS concurrence. National Marine Fisheries and Division of Marine Fisheries agreed with the No Effect calls for the shortnose sturgeon and Atlantic sturgeon made by NCDOT.

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? *

- ☐ Yes ☒ No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? *

NMFS County Index

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpoweb/>)

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

7c. Historic or Prehistoric Information Upload

Click the upload button or drag and drop files here to attach document

File must be PDF

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain? *

- ☒ Yes ☐ No

8b. If yes, explain how project meets FEMA requirements:

NCDOT Hydraulic Unit coordination with FEMA

8c. What source(s) did you use to make the floodplain determination? *

FEMA Maps

Miscellaneous attachments not previously requested.

Click the upload button or drag and drop files here to attach document

USFWS Concurrence.pdf

913.13KB

File must be PDF

Signature

*

☒ By checking the box and signing below, I certify that:

- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic

Transactions Act");

- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name: *

Colin Mellor

Signature

A rectangular box containing a handwritten signature in black ink that reads "Colin Mellor".



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Michael Ellison, Director
Ecosystem Enhancement Program

John E. Skvarla, III
Secretary

September 23, 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:

R-2501C, US 1 from 1.2 Miles North of SR 1606 (Fox Road) to South of SR 1001 (Marston Road), Richmond County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory riparian wetland mitigation for the subject project. Based on the information supplied by you on September 22, 2014, the impacts are located in CU 03040201 of the Yadkin River basin in the Southern Piedmont (SP) Eco-Region, and are as follows:

Yadkin 03040201 SP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.25	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 riparian wetland 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,

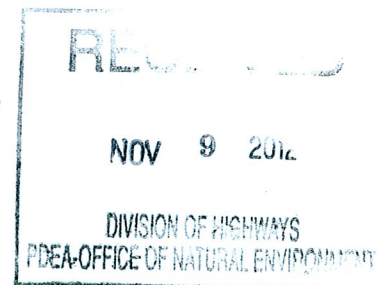
James B. Stanfill
EEP Asset Management Supervisor

cc: Ms. Liz Hair, USACE – Wilmington Regulatory Field Office
Mr. David Wainwright, NCDWQ – Raleigh Office
Ms. Linda Fitzpatrick, NCDOT – PDEA
File: R-2501C



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726



November 6, 2012

Gregory J. Thorpe, Ph.D.
North Carolina Department of Transportation
Project Development and Environmental Analysis
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Dr. Thorpe:

This letter is in response to your letter of November 1, 2012 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation (NCDOT) that the proposed US 1 Rockingham Bypass in Richmond County (TIP No. R-2501) may affect, but is not likely to adversely affect the federally endangered Michaux's sumac (*Rhus michauxii*). In addition, NCDOT has determined that the project will have no effect on the federally endangered red-cockaded woodpecker (*Picoides borealis*), rough-leaved loosestrife (*Lysimachia asperulaefolia*), Carolina heelsplitter (*Lasmigona decorata*), and shortnose sturgeon (*Acipenser brevirostrum*). These comments are provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

According to the information provided, surveys for Michaux's sumac were conducted within the project area on September 11 and 19, 2012. No specimens of Michaux's sumac were observed. However, the North Carolina Natural Heritage Program indicates the presence of the species less than one mile from the project area near the northern terminus of the project within the Sandhills Game Land. Based on the survey results and other available information, the Service concurs with your conclusion that the project may affect, but is not likely to adversely affect Michaux's sumac.

According to information provided, surveys were conducted for red-cockaded woodpeckers in 1998, 2004, 2007, 2008 and 2012. Although some potential nesting and foraging habitat occurs near the project area, no cavity trees were observed. Based on the survey data and other available information, the Service concurs with your conclusion that the project will have no effect on the red-cockaded woodpecker.

The last survey conducted for rough-leaved loosestrife occurred in 2007. No specimens of this species were observed, and there are no records within one mile of the project area. Based on current information, the Service concurs with your conclusion that the project will have no effect on rough-leaved loosestrife. However, NCDOT had committed to resurvey for this species in 2013.

The shortnose sturgeon is under the purview of the National Marine Fisheries Service. Therefore, we have no comment on this species. However, please note that the federally endangered Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) has recently been added to the list for Richmond County. This species is also under the purview of the National Marine Fisheries Service.

The Service appreciates the opportunity to review this project. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

for Gary Jordan
Pete Benjamin
Field Supervisor

Electronic copy: Ronnie Smith, USACE, Wilmington, NC
Travis Wilson, NCWRC, Creedmoor, NC
Chris Militscher, USEPA, Atlanta, GA
Felix Davila, FHWA, Raleigh, NC

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

RECEIVED

AUG 22 2011

Action Id. SAW-1995-00459

County: Richmond

U.S.G.S. Quad: Diggs, Rockingham, Hamlet

And Marston

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner/Agent: Ms. Deanna Riffey

NCDOT- PDEA

Address: 1598 Mail Service Center
Raleigh, NC 27699

Telephone No.:

Property description:

Size (acres) 4030 acres/19 miles

Nearest Waterway Falling Creek

USGS HUC 03040201

Nearest Town Rockingham and Hamlet

River Basin Pee Dee River Basin

Coordinates N 34.911444 W -79.725413

Location description: R-2501-US 1 Rockingham Bypass. The project area is located along and south of US Highway 1, between Rockingham and Hamlet, in Richmond County, North Carolina.

Indicate Which of the Following Apply:

A. Preliminary Determination

- ☐ Based on preliminary information, there may be wetlands on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).

B. Approved Determination

- ☐ There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

X There are waters of the U.S. including wetlands on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

☐ We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.

X The waters of the U.S. including wetland on your project area have been delineated and the delineation has been verified by the Corps.

☐ The waters of the U.S. including wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on September 29, 2010. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- ☐ There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR LINEAR ROADWAY PROJECTS

(Version 1.2; Released July 2012)

Project/TIP No.: R-2501 C

County(ies): Richmond

Page 1 of 2

General Project Information

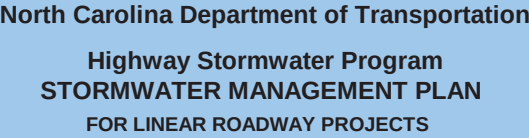
Project No.:	R-2501 C	Project Type:	Grading, Drainage, Paving, & Signing	Date:	10/31/2013
NCDOT Contact:	Charles Smith, PE	Contractor / Designer:	MA Engineering Consultants, Inc.; Roger S. Weadon, PE		
Address:	1590 Mail Service Center Raleigh, 27699-1590 1020 Birch Ridge Road, Raleigh, NC 27610 (DELIVERY)	Address:	598 East Chatham Street, Suite 137 Cary, NC 27511-6956		
	Phone:		919.707.6716		
	Email:		crsmith5@ncdot.gov		
City/Town:	None	County(ies):	Richmond		
River Basin(s):	Yadkin-Pee Dee	CAMA County?	No		
Primary Receiving Water:		NCDWQ Stream Index No.:			
NCDWQ Surface Water Classification for Primary Receiving Water	Primary:	None			
	Supplemental:	None			
Other Stream Classification:					
303(d) Impairments:					
Buffer Rules in Effect	N/A				

Project Description

Project Length (lin. Miles or feet):	3.564 miles	Surrounding Land Use:			
	Proposed Project		Existing Site		
Project Built-Upon Area (ac.)	35.00 ac.		15.00 ac.		
Typical Cross Section Description:					
Average Daily Traffic (veh/hr/day):	Design/Future: 15000	Existing:	9450		

General Project Narrative:	US 1 FROM NORTH OF SR 1606 (FOX ROAD) TO SOUTH OF SR 1001 (MARSTON ROAD) Avoidance and minimization measures: Discharge of pipes near wetland into ditches to disperse the flow and utilizing toe protection to avoid erosion/sedimentation at edge if wetland.
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References



(Version 1.2; Released July 2012)

Project/TIP No.:	R-2501 C	County(ies):	Richmond	Page	2	of	2
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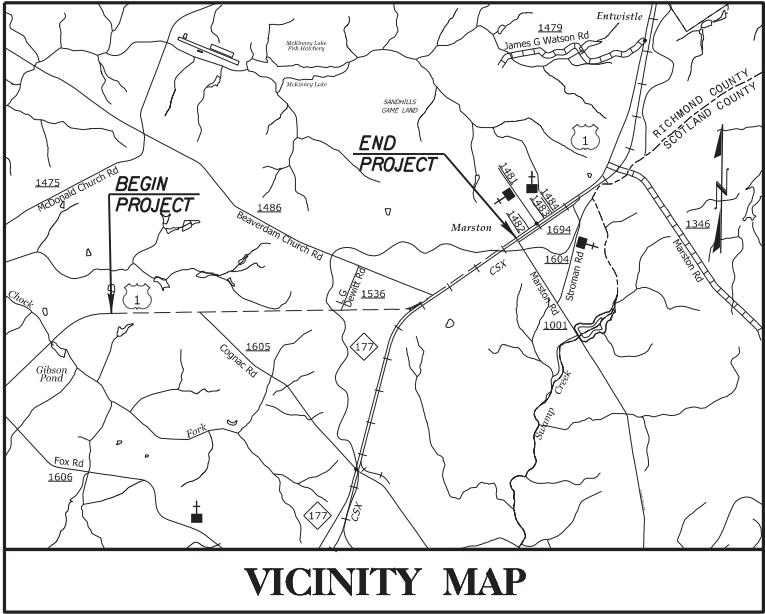
Project Environmental Summary

Surface Water Impacts

Sheet No.	Station (From / To)	Feature Impacted	Water / Wetland / Buffer Type	Receiving Surface Water Name	NRTR Map ID	NCDWQ Stream Index	NCDWQ Surface Water Classification	303(d) Impairments	Type of Impact	Existing SCM	Proposed SCM
9	1201+25	Wetland	Headwater Wetland	UT to Chock Creek				None	Fill	N/A	
	1208+60										
			</								

* List all stream and surface water impact locations regardless of jurisdiction or size.
Equalizer Pipes to be noted as a minimization of impacts.
All proposed SCMs listed must also be listed under Swales, Preformed Sour Holes and other Energy Dissipators, or Other Stormwater Control Measures.

See Sheet 1-A For Index of Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
RICHMOND COUNTY

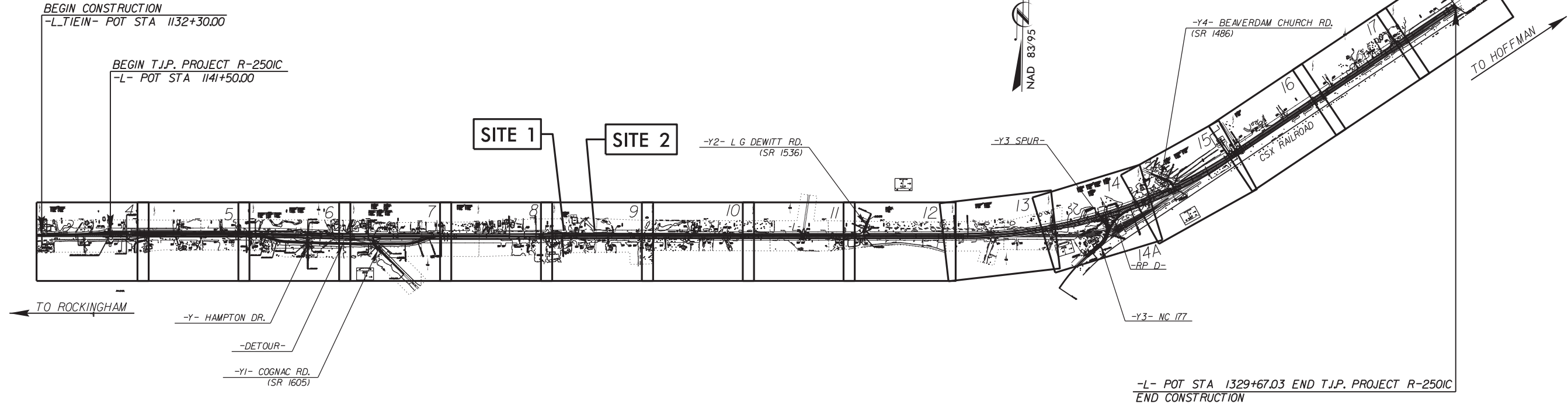
LOCATION: US 1 FROM NORTH OF SR 1606 (FOX ROAD) TO
SOUTH OF SR 1001 (MARSTON ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & SIGNING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2501C	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34437.1.1	NHF-1 (1)	PE	
34437.2.3	HPP-0001(144)	ROW	
34437.2.UFS1	NHPP-0001(144)	UTIL	

WETLAND AND SURFACE
WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 1 OF 7



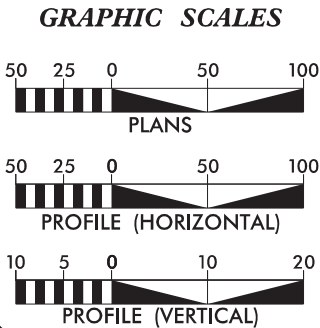
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

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

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:



DESIGN DATA	
ADT 2015	= 9450
ADT 2035	= 15,000
DHV	= 8 %
D	= 60 %
T	= 15 % *
V	= 50 / 60 MPH
FUNCTIONAL CLASSIFICATION: RURAL ARTERIAL	
TIER: STATEWIDE	
* (TTST 10% DUAL 5%)	

PROJECT LENGTH	
LENGTH OF ROADWAY T.I.P. PROJECT R-2501C =	3.564 MI.
TOTAL LENGTH OF T.I.P. PROJECT R-2501C =	
	3.564 MI.

Prepared in the Office of:

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 19, 2013

LETTING DATE:
JULY 21, 2015

ENRICO A. ROQUE, P.E.
PROJECT ENGINEER

BRIAN BLACKWELL, E.I.
PROJECT DESIGN ENGINEER

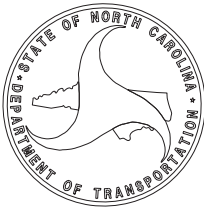
BRENDA MOORE, P.E.
NCDOT CONTACT

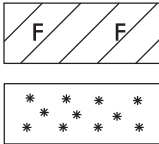
HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.





DENOTES MECHANIZED
CLEARING

PERMIT DRAWING
SHEET 2 OF 7

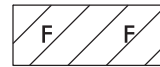
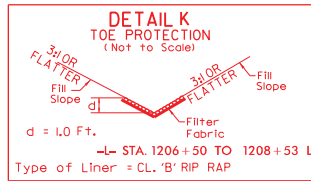
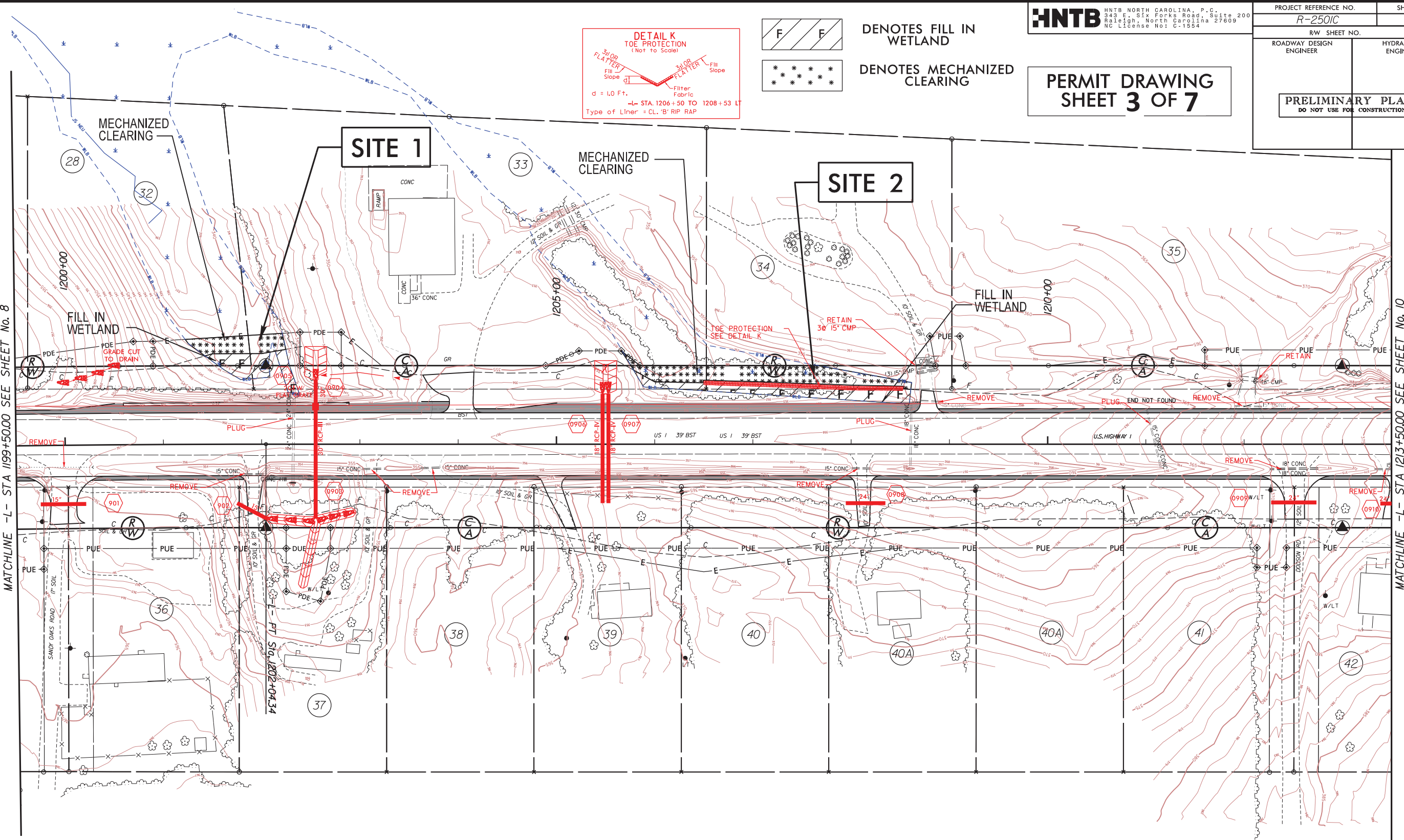
PROJECT REFERENCE NO.	SHEET NO.
<i>R-2501C</i>	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

8/17/99

7/14/2014
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REVISIONS

MATCHLINE -L- STA 1199+50.00 SEE SHEET No. 8



DENOTES FILL IN WETLAND



DENOTES MECHANIZED CLEARING

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PERMIT DRAWING
SHEET 3 OF 7

PROJECT REFERENCE NO. <i>R-2501C</i>	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

MATCHLINE -L- STA 1213+50.00 SEE SHEET No. 10

5/28/99

9:30:15 AM 5/28/99 pfl.sht.L.dgn
\$\$\$\$\$ C:\ROAD\13333\$

PIPE HYDRAULIC DATA		
DRAINAGE STRUCTURE NO.806		
DRAINAGE AREA	= 3.5	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 9.0	CFS
DESIGN HW ELEVATION	= 357.7	FT
100 YEAR DISCHARGE	= 10.2	CFS
100 YEAR HW ELEVATION	= 357.9	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 19.5	CFS
OVERTOPPING ELEVATION	= 360.7	FT

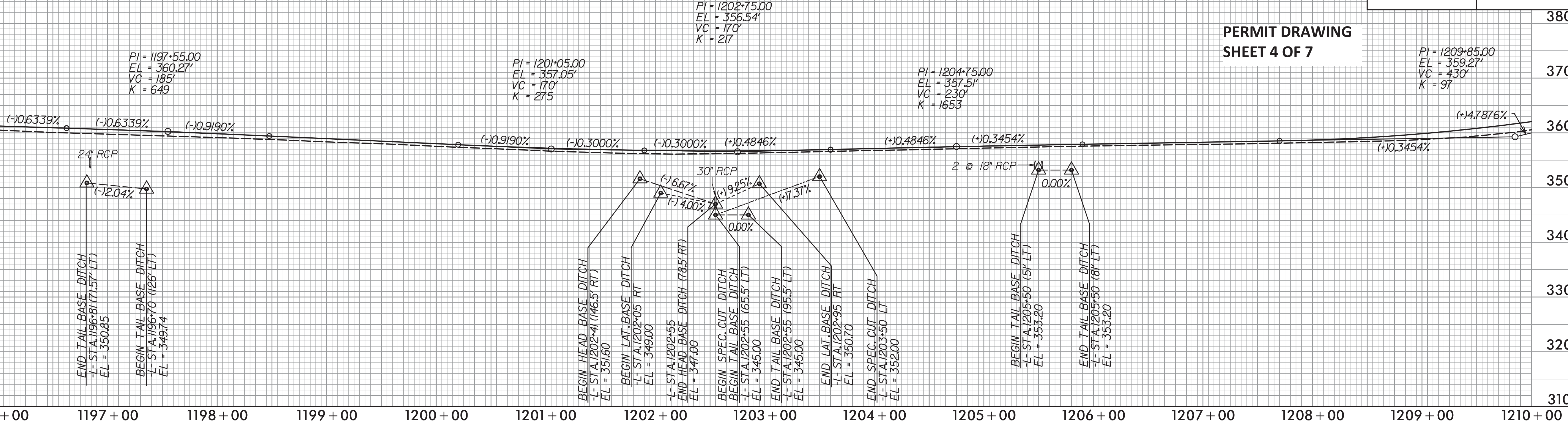
BM *6 -L- STA 1199+62.26
122.56' LEFT ELEV. 359.38'
RR-SPIKE IN BASE OF 20" PINE

PIPE HYDRAULIC DATA		
DRAINAGE STRUCTURE NO.903		
DRAINAGE AREA	= 13.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 25.9	CFS
DESIGN HW ELEVATION	= 349.7	FT
100 YEAR DISCHARGE	= 30.1	CFS
100 YEAR HW ELEVATION	= 350.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 76.5	CFS
OVERTOPPING ELEVATION	= 356.7	FT

PIPE HYDRAULIC DATA		
DRAINAGE STRUCTURE NO.906-907		
DRAINAGE AREA	= 24.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 14.0	CFS
DESIGN HW ELEVATION	= 355.2	FT
100 YEAR DISCHARGE	= 16.9	CFS
100 YEAR HW ELEVATION	= 355.6	FT
OVERTOPPING FREQUENCY	= 500+/-	YRS
OVERTOPPING DISCHARGE	= 29.0	CFS
OVERTOPPING ELEVATION	= 357.8	FT

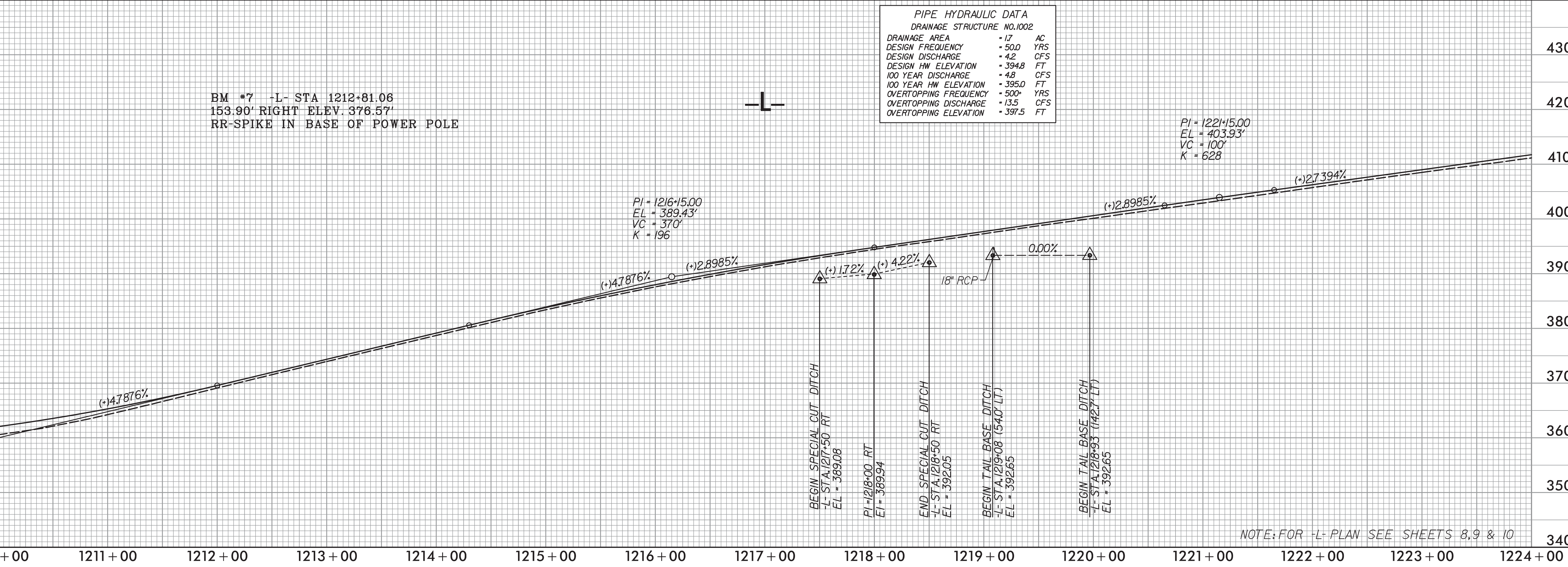
PROJECT REFERENCE NO.		SHEET NO.
R-2501C		22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

PERMIT DRAWING
SHEET 4 OF 7



PIPE HYDRAULIC DATA		
DRAINAGE STRUCTURE NO.1002		
DRAINAGE AREA	= 17	AC
DESIGN FREQUENCY	= 50.0	YRS
DESIGN DISCHARGE	= 4.2	CFS
DESIGN HW ELEVATION	= 394.8	FT
100 YEAR DISCHARGE	= 4.8	CFS
100 YEAR HW ELEVATION	= 395.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 13.5	CFS
OVERTOPPING ELEVATION	= 397.5	FT

BM *7 -L- STA 1212+81.06
153.90' RIGHT ELEV. 376.57'
RR-SPIKE IN BASE OF POWER POLE



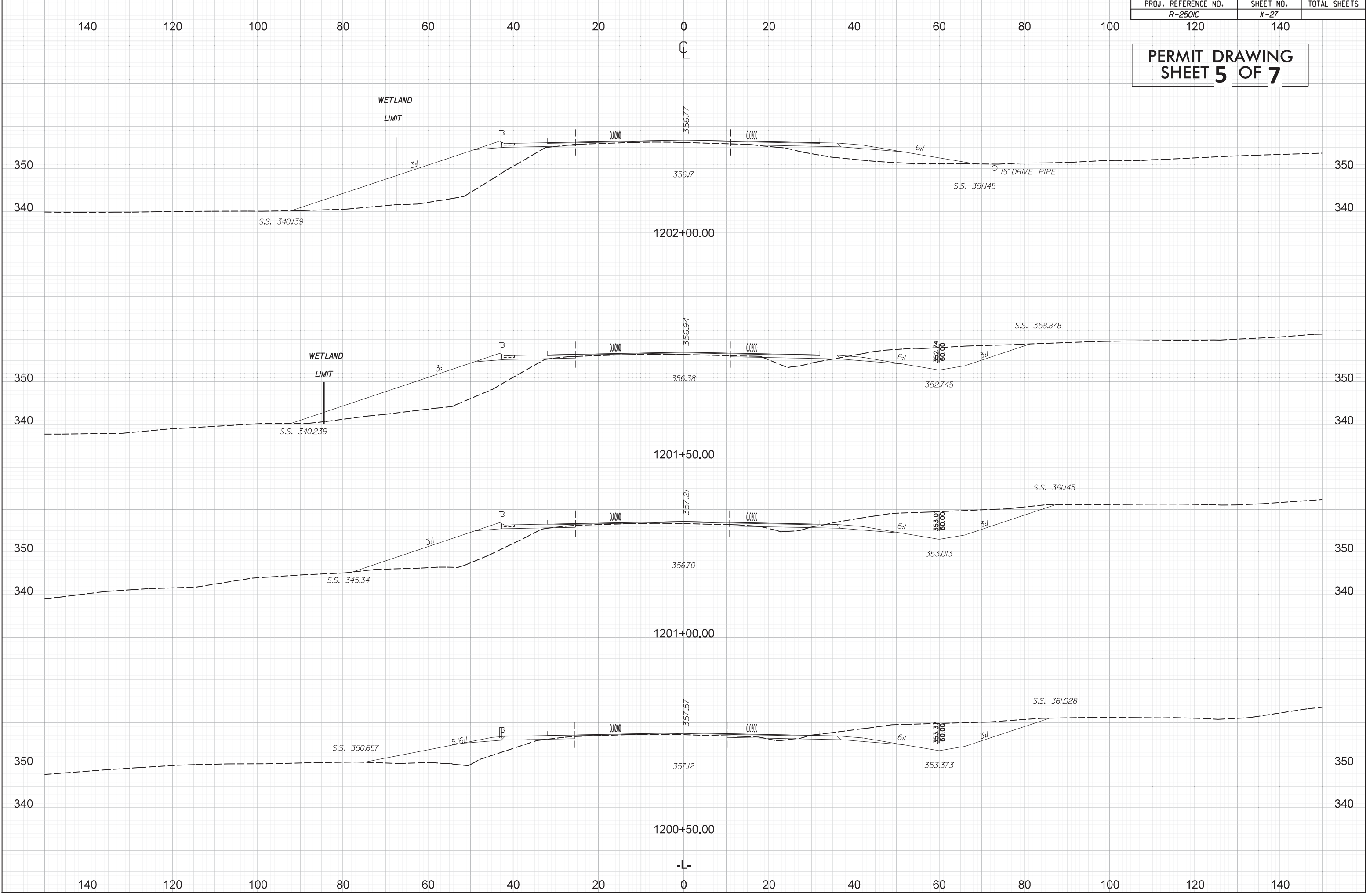
NOTE: FOR -L- PLAN SEE SHEETS 8,9 & 10

02/03/98

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PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
R-2501C	X-27	

PERMIT DRAWING
SHEET 5 OF 7

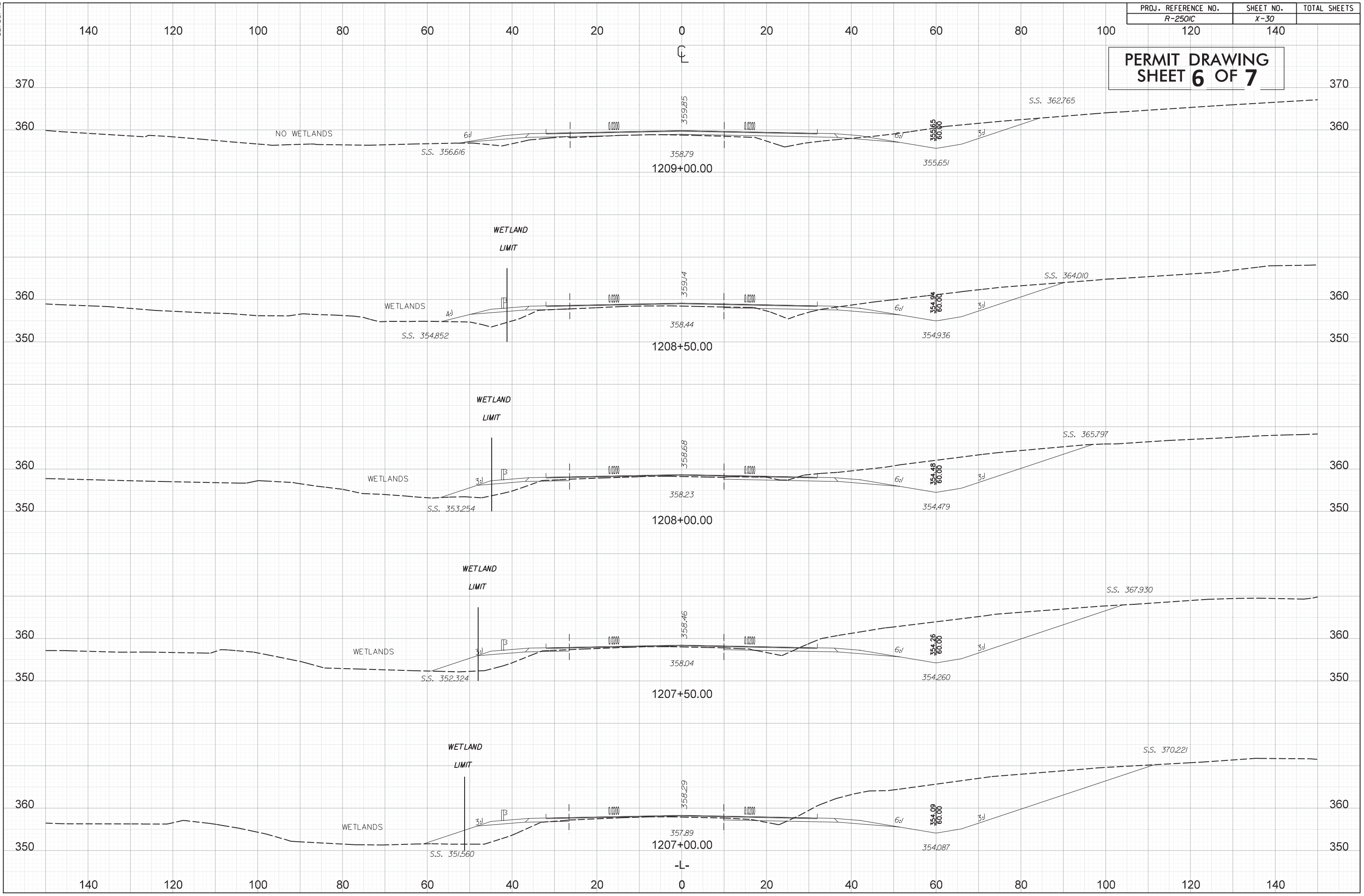


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02/03/98

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
R-2501C	X-30	

PERMIT DRAWING
SHEET 6 OF 7



WETLAND PERMIT IMPACT SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From / To)	Structure Size / Type	Permanent Fill in Wetlands (ac)	Temporary Fill in Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temporary SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temporary (ft)	Natural Stream Design (ft)
1	L 1201+26 to L 1202+39	FILL	0.03			0.04						
2	L 1205+79 to L 1208+61	FILL	0.08			0.10						
TOTALS:			0.11			0.14						

ROUNDED TOTALS ARE THE SUM OF ACTUAL IMPACTS

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

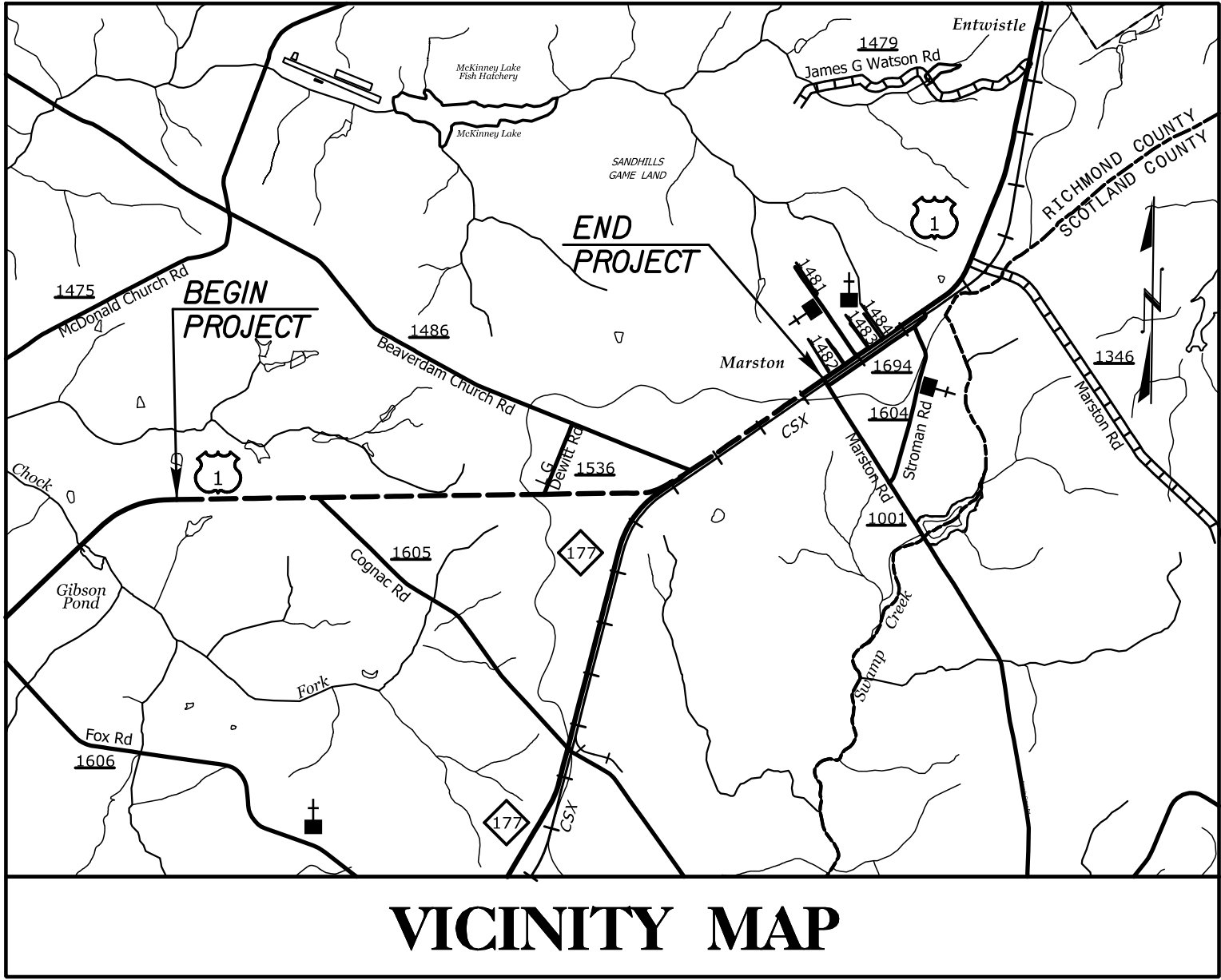
RICHMOND COUNTY
WBS 34437.1.1 R-2501C

09/08/99

TIP PROJECT: R-2501C

CONTRACT:

See Sheet 1-A For Index of Sheets



VICINITY MAP

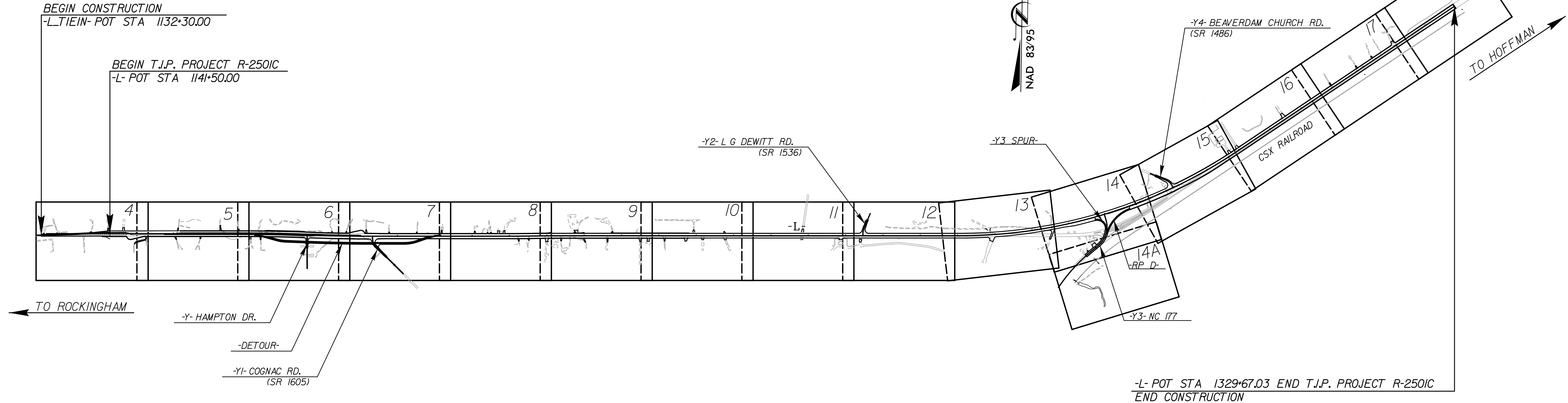
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

RICHMOND COUNTY

LOCATION: US 1 FROM NORTH OF SR 1606 (FOX ROAD) TO
SOUTH OF SR 1001 (MARSTON ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & SIGNING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2501C	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34437.1.1	NHF-1 (1)	PE	
34437.2.FS1	HPP-0001(144)	ROW	
34437.2.UFS1	NHPP-0001(144)	UTIL	



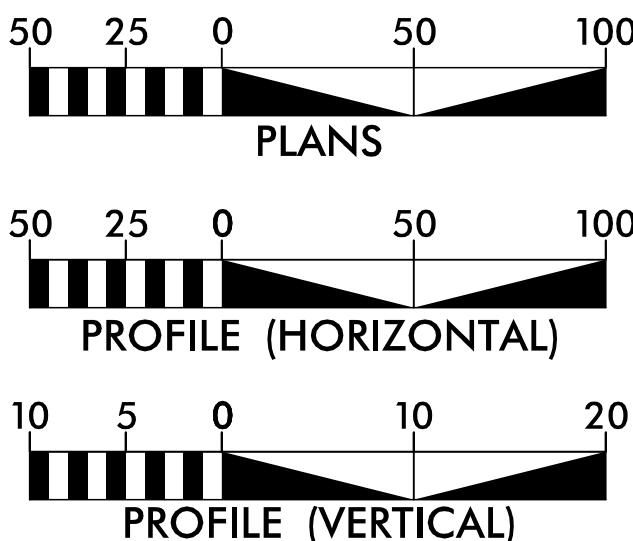
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

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

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2015 = 9450
ADT 2035 = 15,000
DHV = 8 %
D = 60 %
T = 15 % *
V = 50 MPH
60
FUNCTIONAL CLASSIFICATION: RURAL ARTERIAL
TIER: STATEWIDE
* (TTST 10% DUAL 5%)

PROJECT LENGTH

LENGTH OF ROADWAY T.I.P. PROJECT R-2501C = 3.564 MI.

TOTAL LENGTH OF T.I.P. PROJECT R-2501C = 3.564 MI.

Prepared in the Office of:

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 19, 2013

LETTING DATE:
JULY 21, 2015

ENRICO A. ROQUE, P.E.
PROJECT ENGINEER

ANTHONY THOMPSON, P.E.
PROJECT DESIGNER

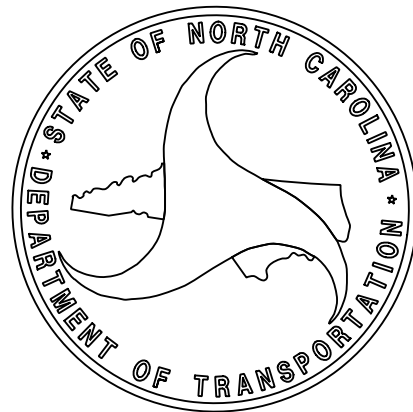
BRENDA MOORE, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.



Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Known Soil Contamination: Area or Site	
Potential Soil Contamination: Area or Site	

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY:

Baseline Control Point	
Existing Right of Way Marker	
Existing Right of Way Line	
Proposed Right of Way Line	
Proposed Right of Way Line with Iron Pin and Cap Marker	
Proposed Right of Way Line with Concrete or Granite RW Marker	
Proposed Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
Proposed Control of Access	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage / Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Proposed Permanent Easement with Iron Pin and Cap Marker	
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
Single Tree	
Single Shrub	
Hedge	
Woods Line	

VEGETATION:

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	

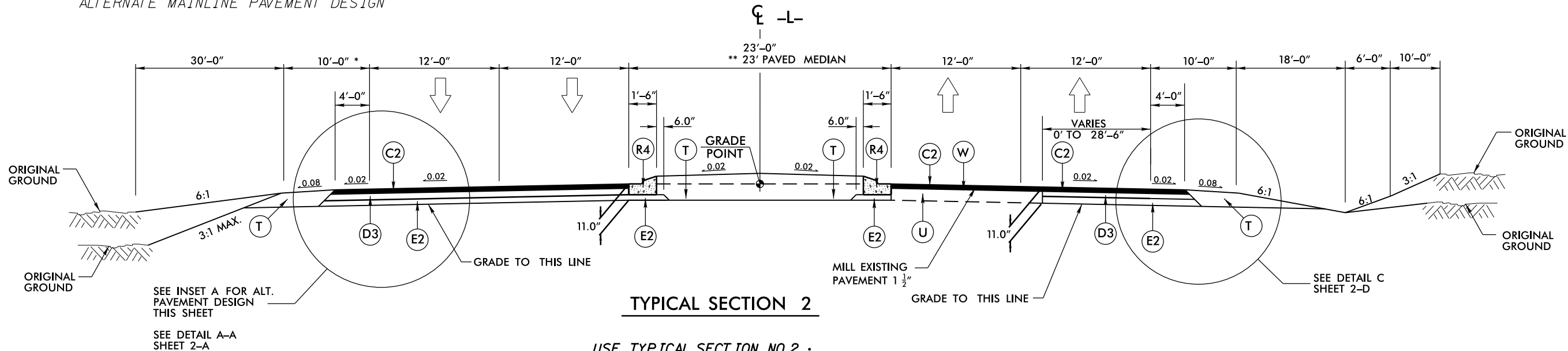
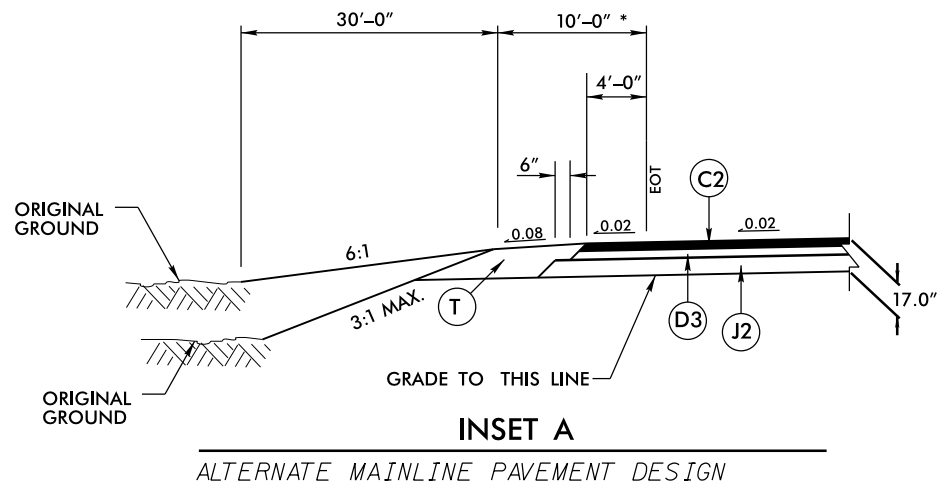
8/17/99

REVISIONS
R/W REVISION NO.1:REVISED TYPICAL SECTION NO.2 STATIONING PER BULB- OUT RELOCATION (05/05/14)

02-MAY-2014 09:29
R:\Roadway\Projects\2501c-rd\TYP.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

PRELIMINARY PAVEMENT SCHEDULE			
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	E5	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.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	J1	PROP. 8" AGGREGATE BASE COURSE
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1½" IN DEPTH OR GREATER THAN 2" IN DEPTH.	J2	PROP. 10" AGGREGATE BASE COURSE
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R1	2'-6" CONCRETE CURB AND GUTTER.
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD.	R2	5" MONOLITHIC CONCRETE ISLAND.
D3	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R3	CONCRETE EXPRESSWAY GUTTER.
D4	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 2¼" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R4	1'-6" CONCRETE CURB AND GUTTER.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R5	SHOULDER BERM GUTTER
E2	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	T	EARTH MATERIAL.
E3	PROP. APPROX. 4½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
E4	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

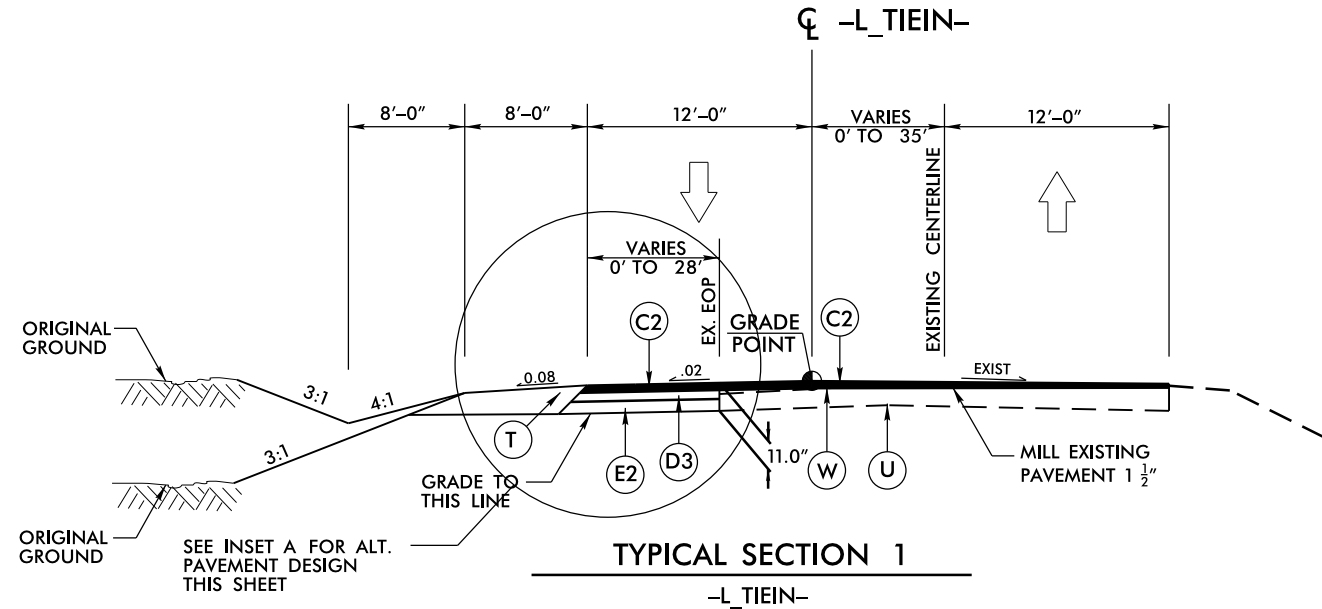
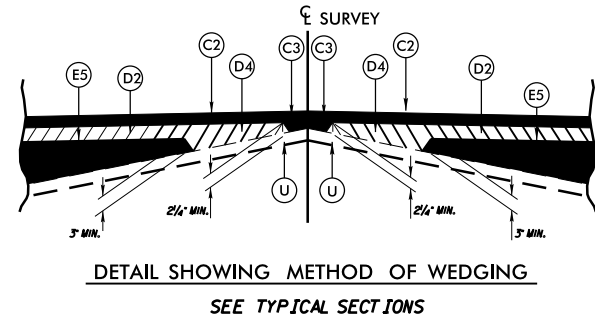
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



USE TYPICAL SECTION NO.2 :
**-L- STA 1141+50.00 TO -L- STA 1143+65 +/-
-L- STA 1143+65 +/- TO -L- STA 1167+50 +/-

HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO.		SHEET NO.	
R-2501C		2	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			



USE TYPICAL SECTION NO.1 :
-L-T IE IN- STA 1132+30.00 TO -L-T IE IN- STA 1141+50.00

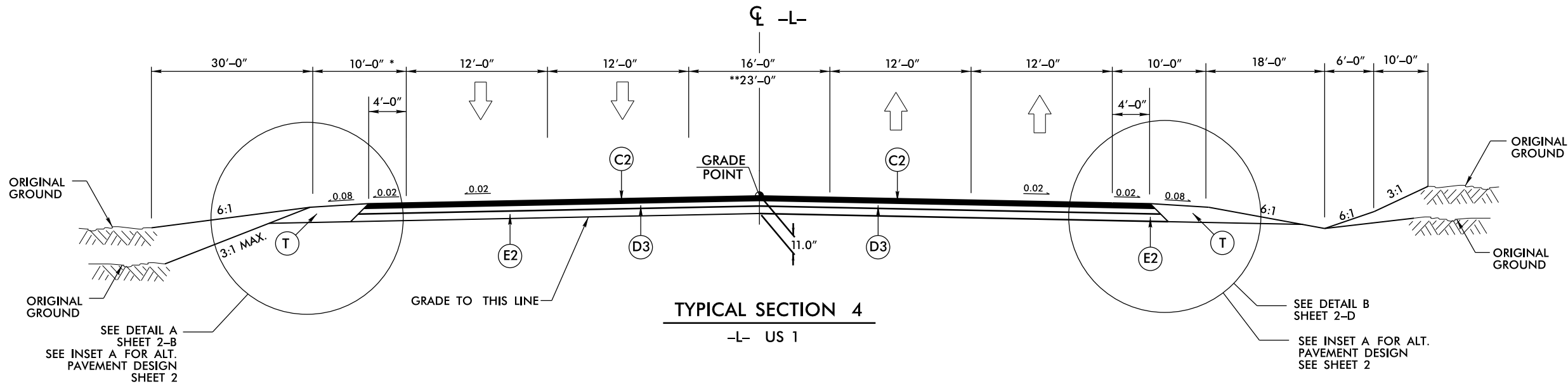
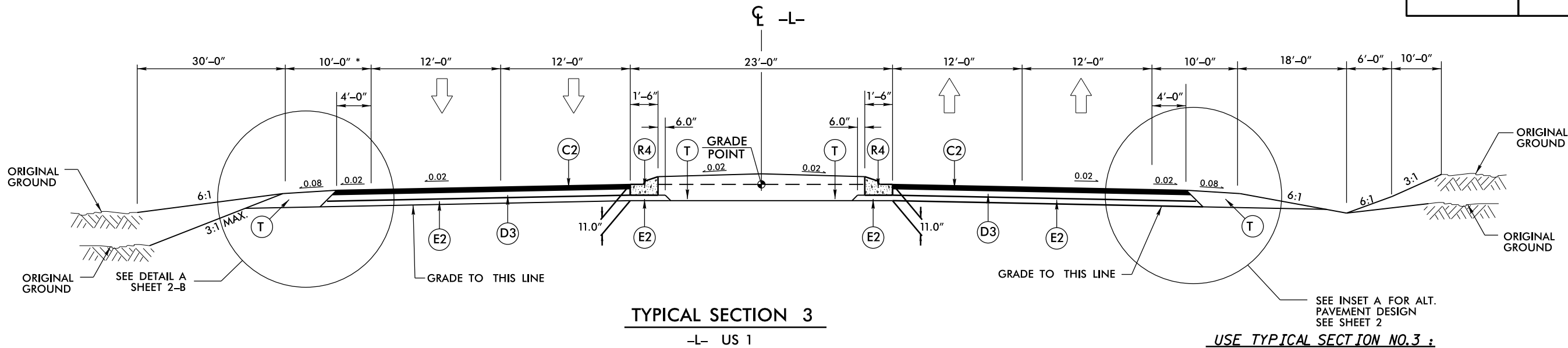
NOTE: * 1) 13'-0" WHERE GUARDRAIL IS WARRANTED
2) SEE PLANS FOR SUPERELEVATION, TURN LANES, AUXILIARY LANES, MONOLITHIC ISLAND, EXPRESSWAY GUTTER , CURB & GUTTER, & LANE TAPER LOCATIONS

8/17/99

C2	3" ACSC TYPE S9.5C
D3	4 " ACIC TYPE I19.0C
E2	4" ACBC, TYPE B25.0C
R4	1'-6" CURB AND GUTTER.
T	EARTH MATERIAL

HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO. R-2501C		SHEET NO. 2-A
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		



TRANSITION FROM TYPICAL
SECTION 9 TO TYPICAL SECTION 4 :
-L- STA 1284+28.00 TO -L- STA 1285+48.00

TRANSITION FROM TYPICAL
SECTION 4 TO TYPICAL SECTION 6:
-L- STA 1289+78.90 TO -L- STA 1292+78.90

NOTE: * 1) 13'-0" WHERE GUARDRAIL IS WARRANTED
2) SEE PLANS FOR SUPERELEVATION, TURN LANES,
AUXILIARY LANES, MONOLITHIC ISLAND, EXPRESSWAY
GUTTER , CURB & GUTTER, & LANE TAPER LOCATIONS

REVISIONS

22-JUL-2013 10:17
R:\Hondan\2501C\2501C-rdy-TYP.dgn
PLEASE REVIEW

8/17/99

REVISIONS

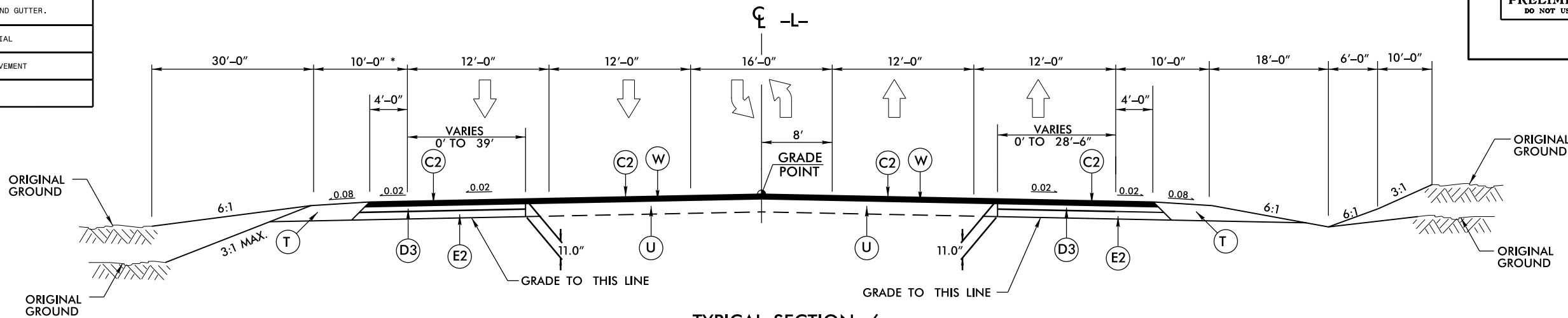
22-JUL-2013 10:20
H:\Hondan\2501c-rdy_TYP.dgn
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C2	3" ACSC TYPE S9.5C
D3	4" ACIC TYPE I19.0C
E2	4" ACBC, TYPE B25.0C
R1	2'-6" CURB AND GUTTER.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO. <i>R-2501C</i>		SHEET NO. <i>2-C</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			

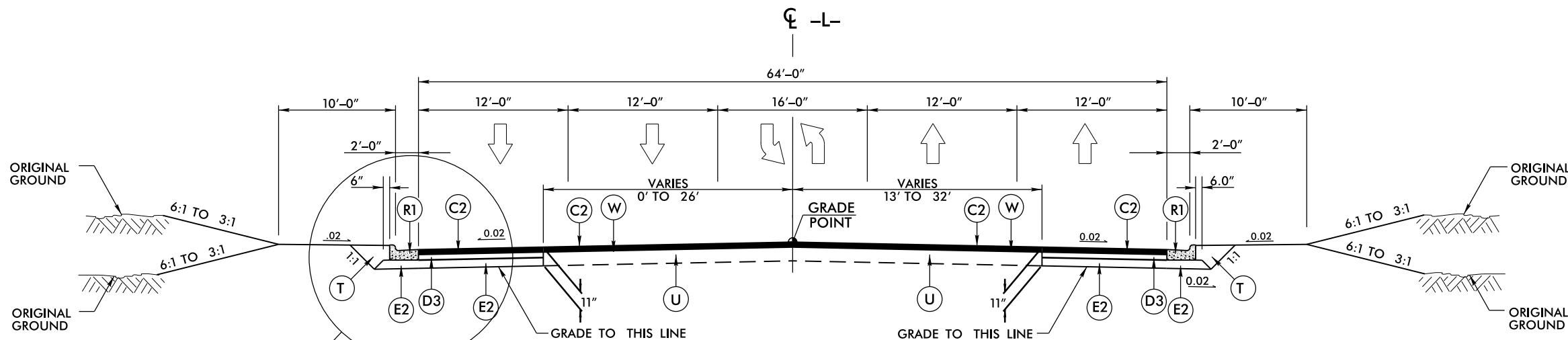


TYPICAL SECTION 6

-L- US 1

USE TYPICAL SECTION NO.6 :

-L- STA 1195+00± TO -L- STA 1219+00.00
-L- STA 1292+78.90 TO -L- STA 1329+67.03

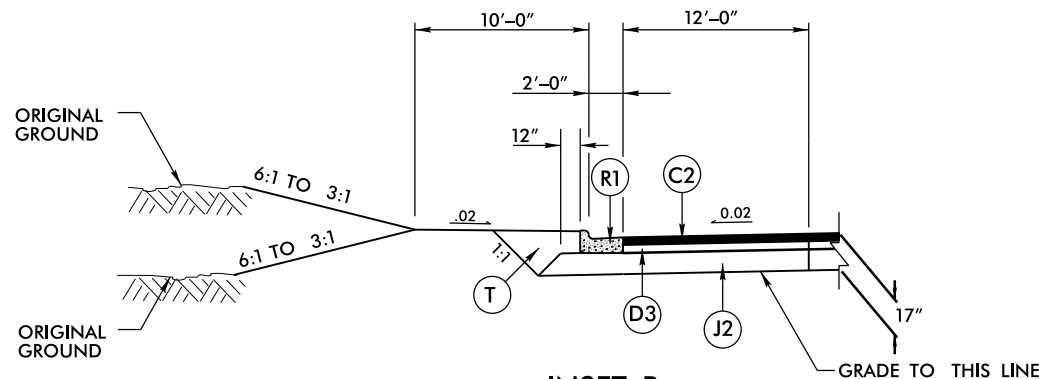


TYPICAL SECTION 7

-L- US 1

USE TYPICAL SECTION NO.7 :

-L- STA 1219+00.00 TO -L- STA 1261+00.00



INSET B

ALTERNATE MAINLINE PAVEMENT DESIGN

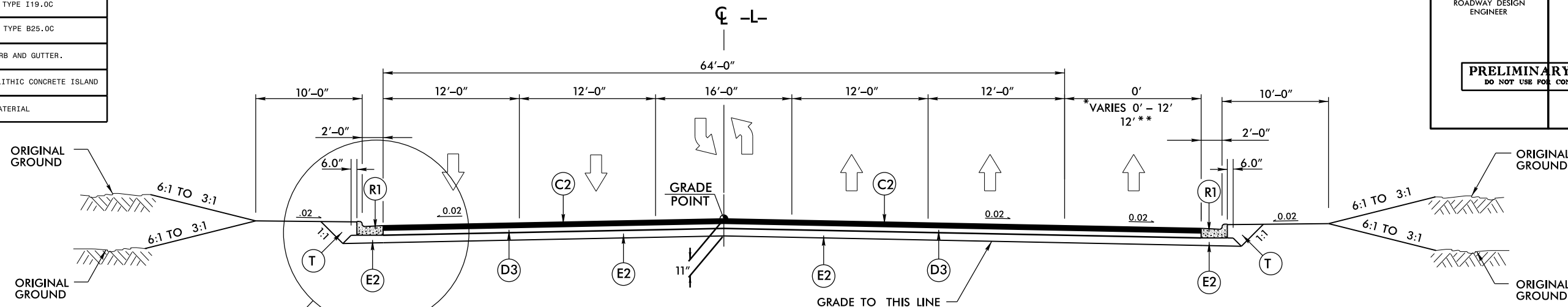
NOTE: * 1) 13'-0" WHERE GUARDRAIL IS WARRANTED
2) SEE PLANS FOR SUPERELEVATION, TURN LANES, AUXILIARY LANES, MONOLITHIC ISLAND, EXPRESSWAY GUTTER, CURB & GUTTER, & LANE TAPER LOCATIONS

8/17/99

C2	3" ACSC TYPE S9.5C
D3	4" ACIC TYPE I19.0C
E2	4" ACBC, TYPE B25.0C
R1	2'-6" CURB AND GUTTER.
R2	5" MONOLITHIC CONCRETE ISLAND
T	EARTH MATERIAL

HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO. <i>R-2501C</i>		SHEET NO. <i>2-D</i>
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		



TYPICAL SECTION 8

-L- US 1

USE TYPICAL SECTION NO.8 :

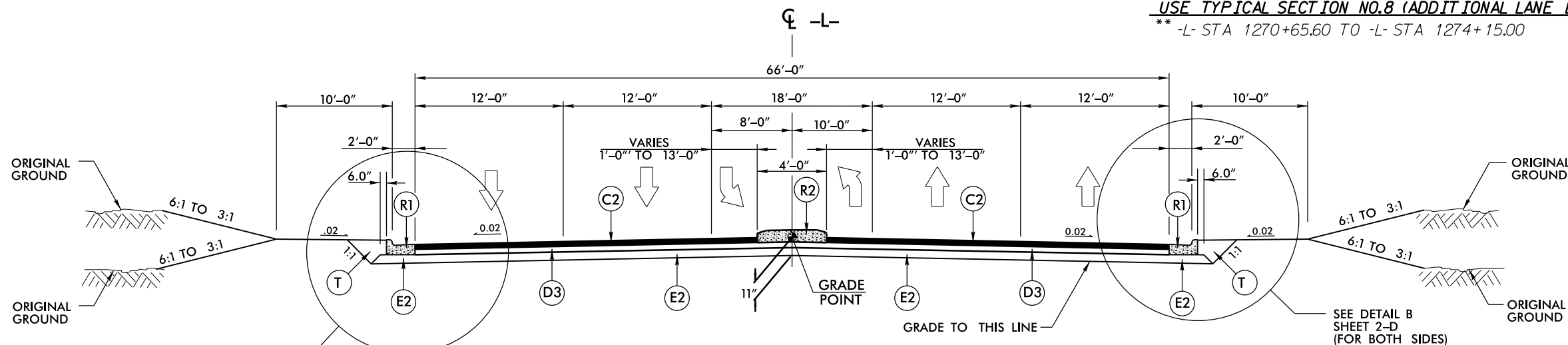
-L- STA 1261+00.00 TO -L- STA 1274+15.00

USE TYPICAL SECTION NO.8 (TAPER LOCATIONS):

* -L- STA 1269+15.60 TO -L- STA 1270+65.60

USE TYPICAL SECTION NO.8 (ADDITIONAL LANE LOCATIONS):

** -L- STA 1270+65.60 TO -L- STA 1274+15.00



TYPICAL SECTION 9

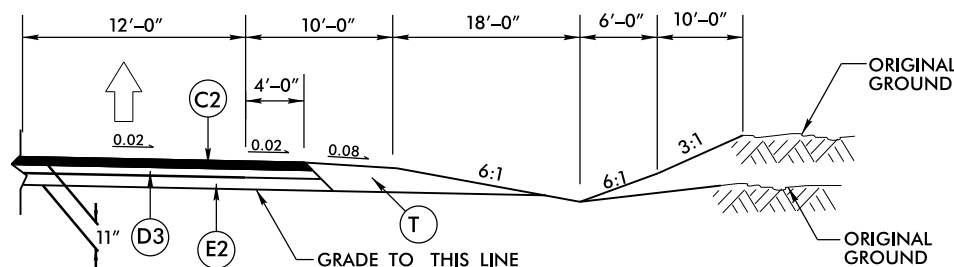
-L- US 1

USE TYPICAL SECTION NO.9 :

-L- STA 1275+35.00 TO -L- STA 1284+28.00

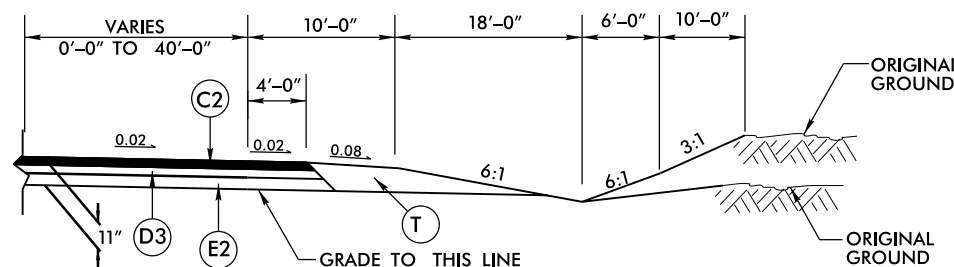
TRANSITION FROM TYPICAL SECTION 8 TO TYPICAL SECTION 9 :

-L- STA 1274+15.00 TO -L- STA 1275+35.00



DETAIL B

USE DETAIL B IN CONJUNCTION WITH
TYPICAL SECTION 4 & 9 AT THE FOLLOWING LOCATIONS:
-L- STA 1278+38.90 TO -L- STA 1284+28.00 RIGHT SIDE
-L- STA 1285+48.00 TO -L- STA 1289+78.90 RIGHT SIDE



DETAIL C

USE DETAIL C IN CONJUNCTION WITH
TYPICAL SECTION 2 AT THE FOLLOWING LOCATION:
-L- STA 1143+74.40 TO -L- STA 1146+05.00 RIGHT SIDE (BULBOUT LOCATION)

NOTE: 1) SEE PLANS FOR SUPERELEVATION, TURN LANES,
AUXILIARY LANES, MONOLITHIC ISLAND, EXPRESSWAY
GUTTER , CURB & GUTTER, & LANE TAPER LOCATIONS

REVISIONS

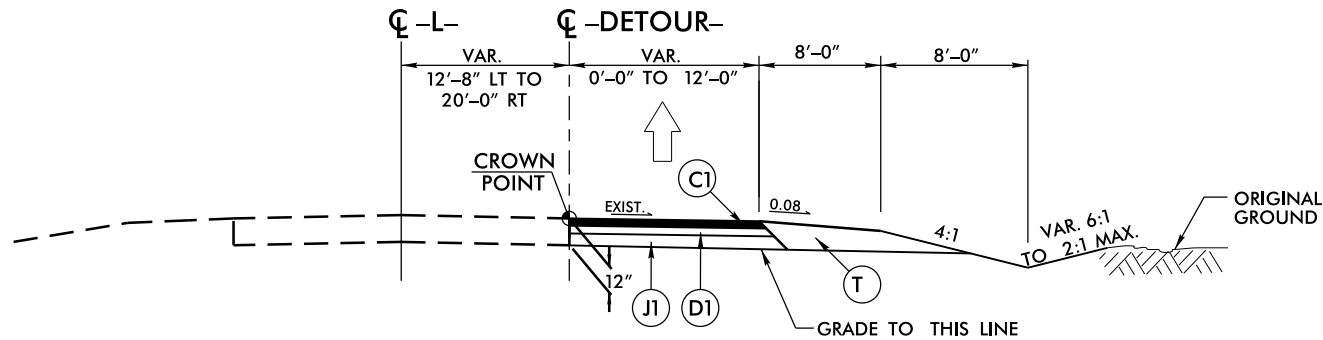
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8/17/99

C1	1½" ACSC TYPE S9.5C
C2	3" ACSC TYPE S9.5C
D1	2½" ACIC TYPE I19.0C
E4	5" ACBC, TYPE B25.0B
J1	8" ABC
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING

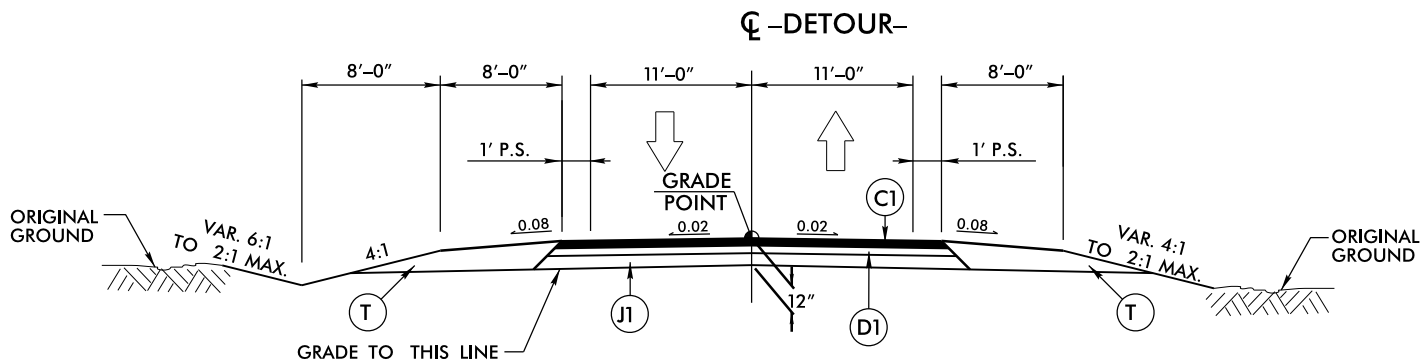
HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-2501C	2-E
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



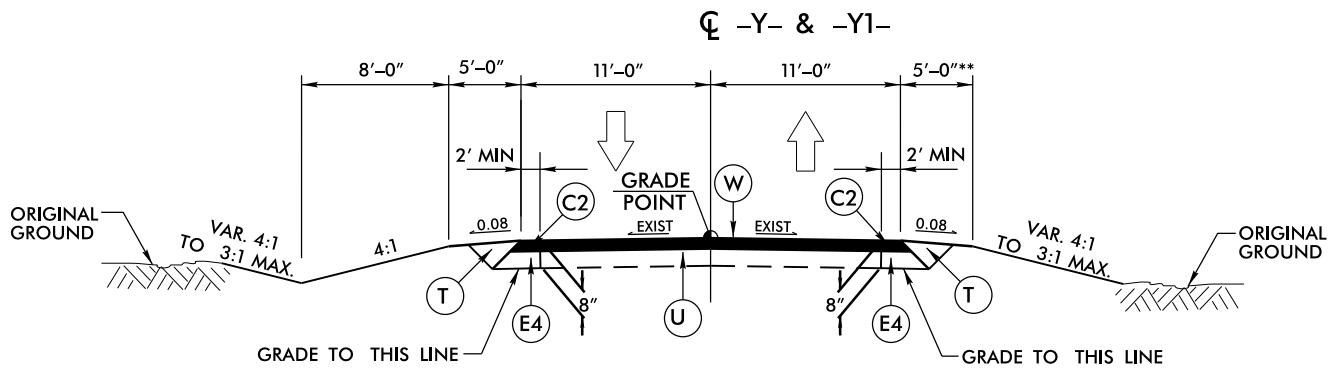
TYPICAL SECTION 10
-DETOUR-

USE TYPICAL SECTION NO. 10 :
-DETOUR- STA 10+00.00 TO -DETOUR- STA 11+50±
-DETOUR- STA 33+50± TO -DETOUR- STA 35+15.70



TYPICAL SECTION 11
-DETOUR-

USE TYPICAL SECTION NO. 11 :
-DETOUR- STA 11+50± TO -DETOUR- STA 33+50±



TYPICAL SECTION 12
-Y- HAMPTON DR.
-Y1- COGNAC RD. (SR1605)

USE TYPICAL SECTION NO. 12 :
-Y- STA 10+32.00 TO -Y- STA 11+75.00
-Y1- STA 13+00.00 TO -Y1- STA 13+50.00

NOTE: 1) SEE PLANS FOR SUPERELEVATION, TURN LANES, AUXILIARY LANES, MONOLITHIC ISLAND, EXPRESSWAY GUTTER, CURB & GUTTER, & LANE TAPER LOCATIONS

REVISIONS

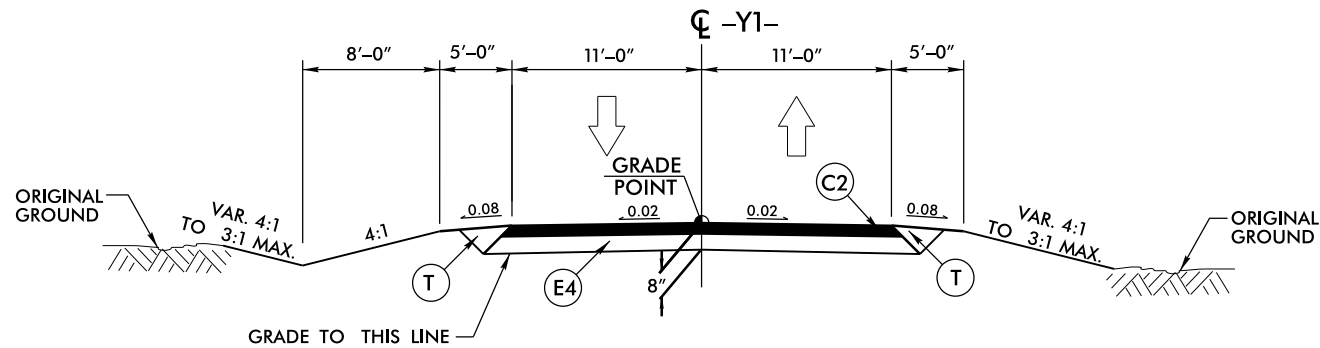
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8/17/99

REVISIONS

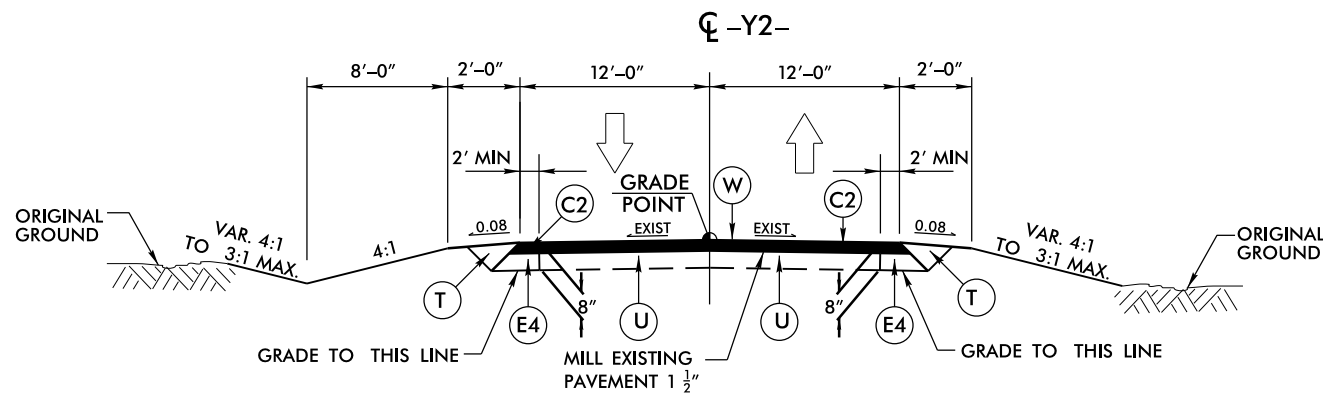
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C2	3" ACSC TYPE S9.5C
D2	4" ACIC TYPE I19.0B
E1	4" ACBC, TYPE B25.0B
E4	5" ACBC, TYPE B25.0B
R1	2'-6" CURB AND GUTTER.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING



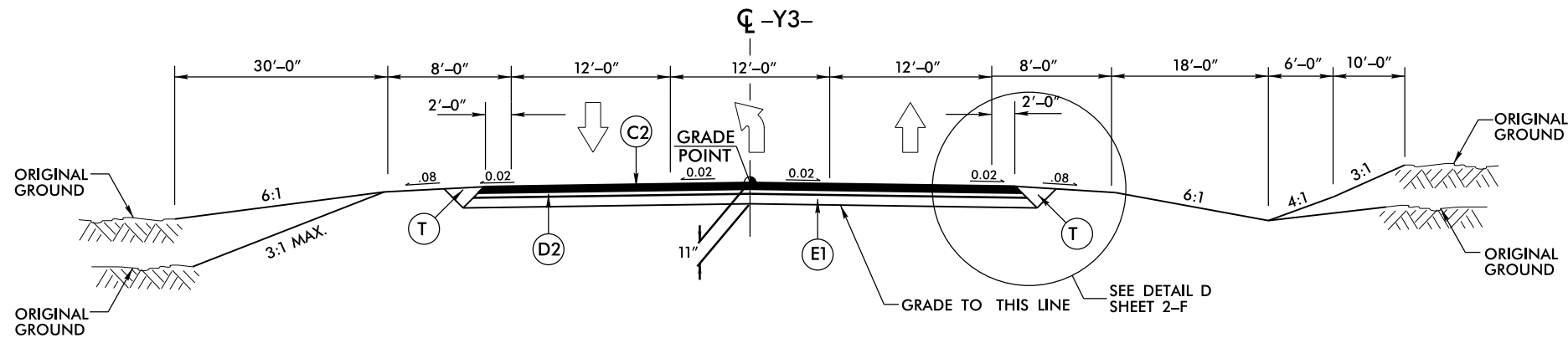
TYPICAL SECTION 13
-Y1- COGNAC RD. (SR1605)

USE TYPICAL SECTION NO. 13 :
-Y1- STA 10+35.40 TO -Y1- STA 13+00.00



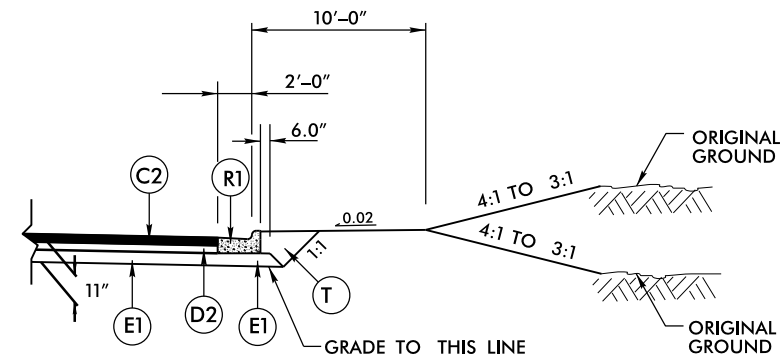
TYPICAL SECTION 14
-Y2- L G DEWITT RD (SR1536)

USE TYPICAL SECTION NO. 14 :
-Y2- STA 10+32.00 TO -Y2- STA 12+25.00



TYPICAL SECTION 15
NC 177

USE TYPICAL SECTION NO. 15 :
-Y3- STA 10+33.29 TO -Y3- STA 16+70.00



USE DETAIL D IN CONJUNCTION WITH
TYPICAL SECTION 15 AT THE FOLLOWING LOCATIONS:
-Y3- STA 10+35± TO -Y3- STA 11+77± LEFT SIDE
-Y3- STA 10+35± TO -Y3- STA 10+95± RIGHT SIDE

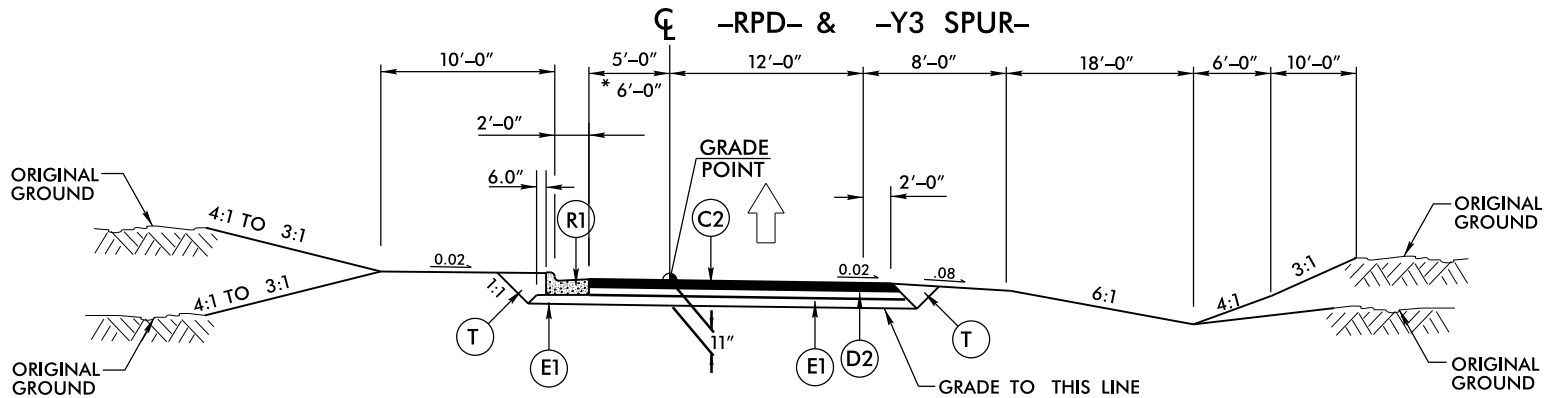
NOTE: 1) SEE PLANS FOR SUPERELEVATION, TURN LANES,
AUXILIARY LANES, MONOLITHIC ISLAND, EXPRESSWAY
GUTTER , CURB & GUTTER, & LANE TAPER LOCATIONS

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-2501C	2-F
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

8/17/99

C2	3" ACSC TYPE S9.5C
D2	4 " ACIC TYPE I19.0B
D3	4 " ACIC TYPE I19.0C
E1	4" ACBC, TYPE B25.0B
E2	4" ACBC, TYPE B25.0C
E3	4½" ACBC, TYPE B25.0B
J1	8" ABC
R1	2'-6" CURB AND GUTTER.
R5	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING



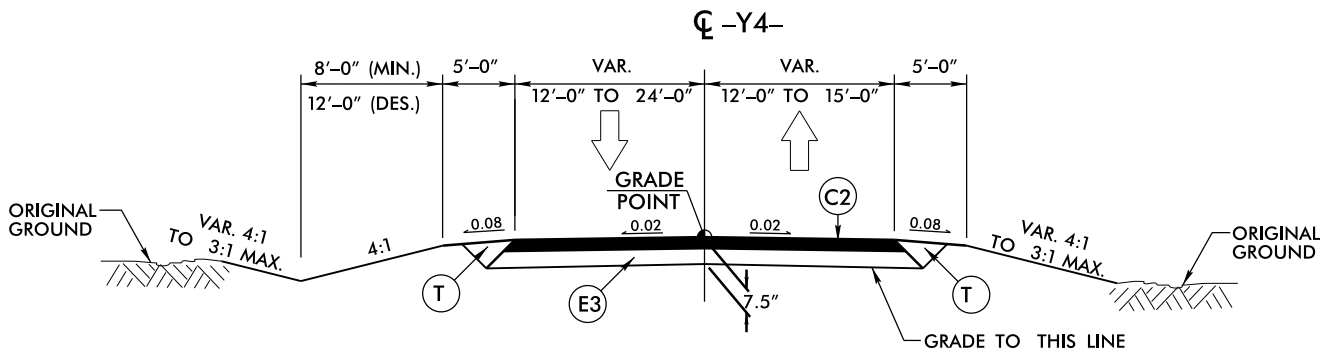
TYPICAL SECTION 16

RAMP D & Y3 SPUR

USE TYPICAL SECTION NO. 16 :

-RPD- STA 10+00.00 TO -RPD- STA 14+73.97

* -Y3 SPUR- STA 5+00.00 TO -Y3 SPUR- STA 7+39.73

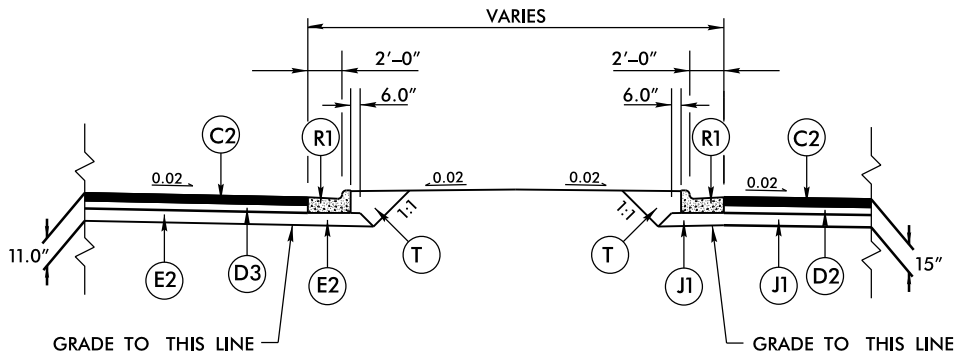


TYPICAL SECTION 17

-Y4- BEAVERDAM CHURCH RD. (SR1486)

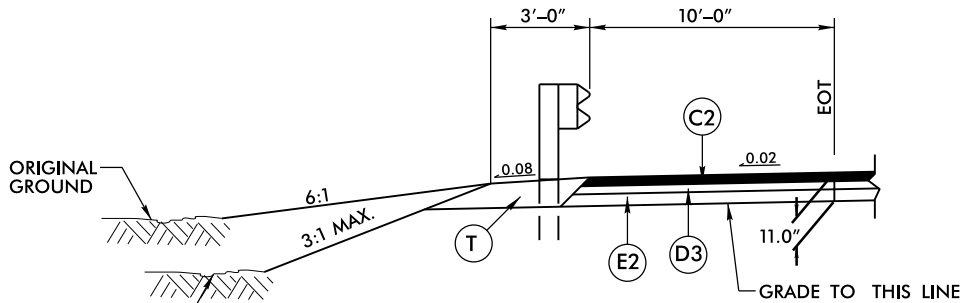
USE TYPICAL SECTION NO. 17 :

-Y4- STA 10+32.00 TO -Y4- STA 13+00.00



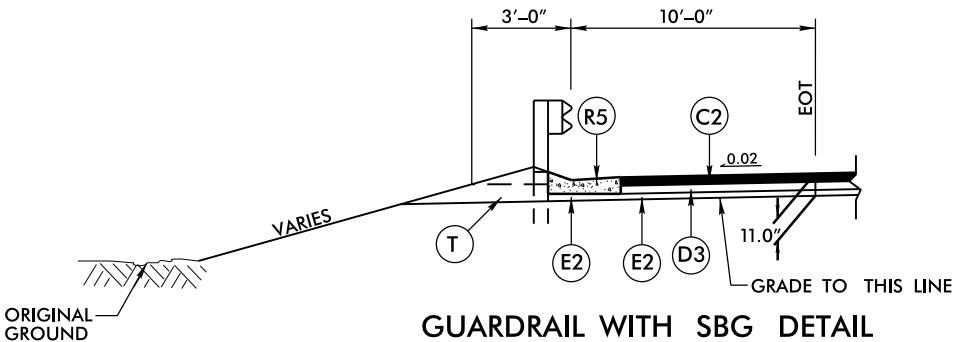
RAISED GRASS ISLAND DETAIL

USE RAISED GRASS ISLAND DETAIL IN CONJUNCTION WITH TYPICAL SECTIONS 9 & 16 AT THE RAISED GRASS ISLAND LOCATIONS LOCATED ON PLAN SHEET No. 14.



GUARDRAIL DETAIL

-L- STA. 1162+50.00 TO 1167+00.00 LT.
-L- STA. 1200+50.00 TO 1201+50.00 LT.
-L- STA. 1202+89.00 TO 1203+62.50 LT.
-L- STA. 1205+00.00 TO 1208+62.50 LT.

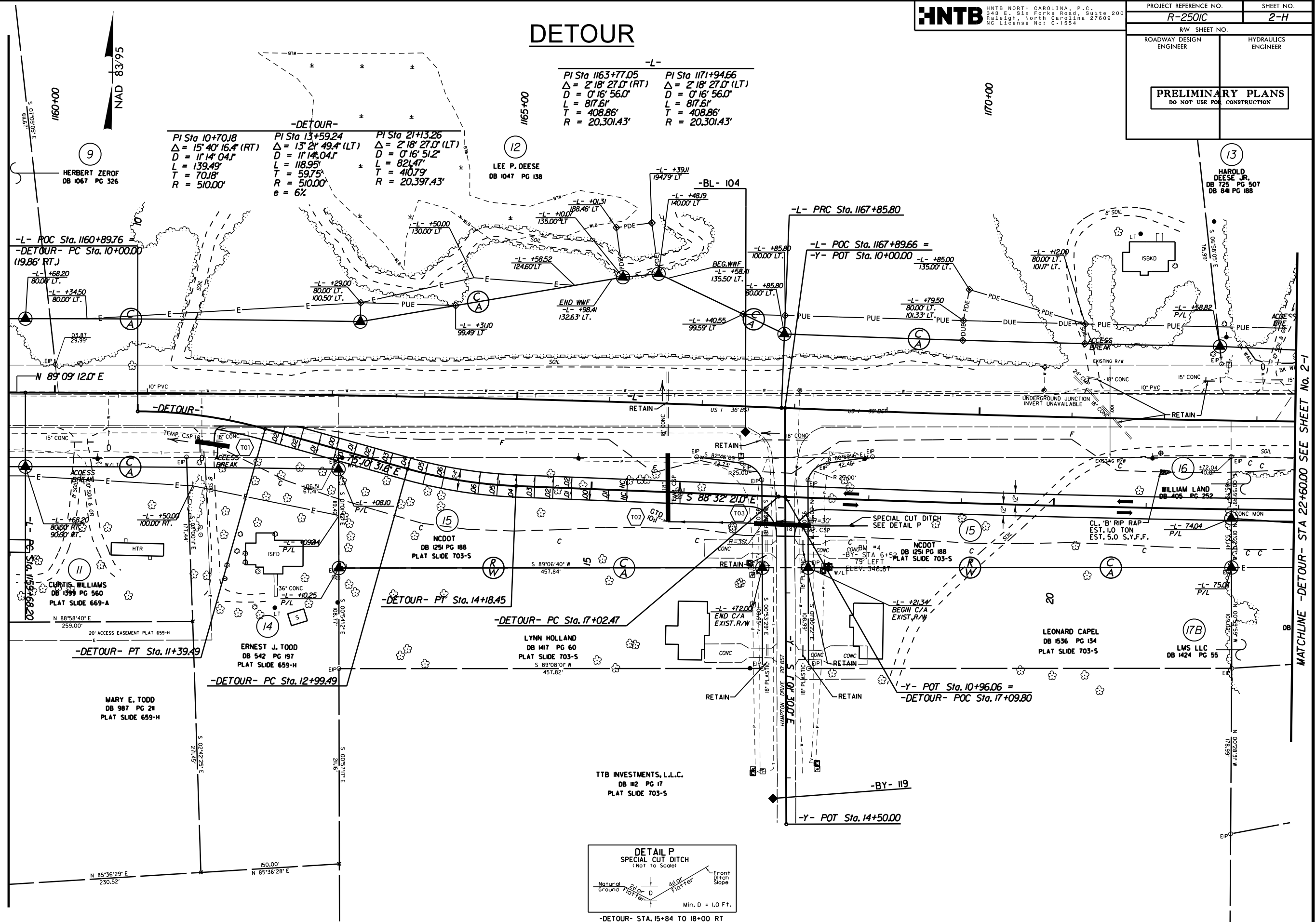


GUARDRAIL WITH SBG DETAIL

-L- STA. 1201+50.00 TO 1202+89.00 LT.

NOTE: 1) SEE PLANS FOR SUPERELEVATION, TURN LANES, AUXILIARY LANES, MONOLITHIC ISLAND, EXPRESSWAY GUTTER , CURB & GUTTER, & LANE TAPER LOCATIONS

-L-	
PI Sta 1163+77.05	PI Sta 1171+94.66
$\Delta = 2' 18'' 27.0''$ (RT)	$\Delta = 2' 18'' 27.0''$ (LT)
D = 0' 16' 56.0'	D = 0' 16' 56.0'
L = 817.61'	L = 817.61'
T = 408.86'	T = 408.86'
R = 20.301.43'	R = 20.301.43'



NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR DETOUR PROFILE SEE SHEET No.27

REVISIONS
R/W REVISION NO: REMOVED PUE'S ON LYNN HOLLAND AND LEONARD CAPEL PROPERTIES ALONG -Y--(05/05/14)

02-MAY-2014 09:34
R:\Roadway\Project\2501c-rdy_PSH2H-detour.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

-DETOUR-

-L-

PI Sta 1171+94.66
 $\Delta = 2^\circ 18' 27.0''$ (LT)
 $D = 0^\circ 16' 56.0''$
 $L = 817.61'$
 $T = 408.86'$
 $R = 20,301.43'$

-YI-

PI Sta 10+94.35
 $\Delta = 45^{\circ} 06' 42.0''$ (LT)
 $D = 38^{\circ} 11' 49.9''$
 $L = 118.10'$
 $T = 62.30'$
 $R = 150.00'$
 $e = .020$

-DETOUR-

PI Sta 21+13.26
 $\Delta = 2^\circ 18' 27.0''$ (LT)
 $D = 0^\circ 16' 51.2''$
 $L = 821.47'$
 $T = 410.79'$
 $R = 20,397.43'$

PI Sta 31+01.18
 $\Delta = 19^{\circ} 07' 20.4''$ (LT)
 $D = 11^{\circ} 14' 04.5''$
 $L = 170.21'$
 $T = 85.90'$
 $R = 510.00'$
 $E = \text{AS SHOWN}$

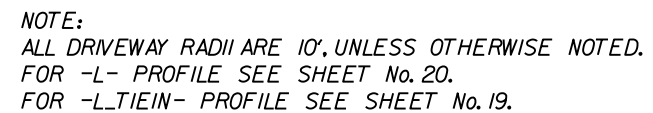
PI Sta 34+31.39
 $\Delta = 19^\circ 07' 20.4''$ (RT)
 $D = 11^\circ 14' 04.5''$
 $L = 170.21'$
 $T = 85.90'$
 $R = 510.00'$

MATCHLINE -DETOUR- STA 22+60.00 SEE SHEET No. 2-H

NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR -DETOUR- PROFILE SEE SHEET No. 27.

PARCEL INDEX SHEET

[illegible]



21-AUG-2014 07:45
R:\Roadway\Proj\2501c-rdy-PSH04.dgn

8/17/99

R/W REVISION NO.1: CORRECTED SPELLING OF PARCEL NAME TO HERBERT ZEROFF DATED 12/6/13.
R/W REVISION NO.2: UPDATED PROPERTY LINE FOR NEW PARCEL NO IIA ADDED A NEW DRIVEWAY, ACCESS BREAK AND ADDED 2-10' GATES FOR DIXIE PIPELINE. (07/18/14)
R/W REVISION NO.3: PROVIDED ACCESS BREAK BETWEEN -L- STA 1149+00 AND -L- STA 1149+60 LT. (08/21/14)

21-AUG-2014 07:54
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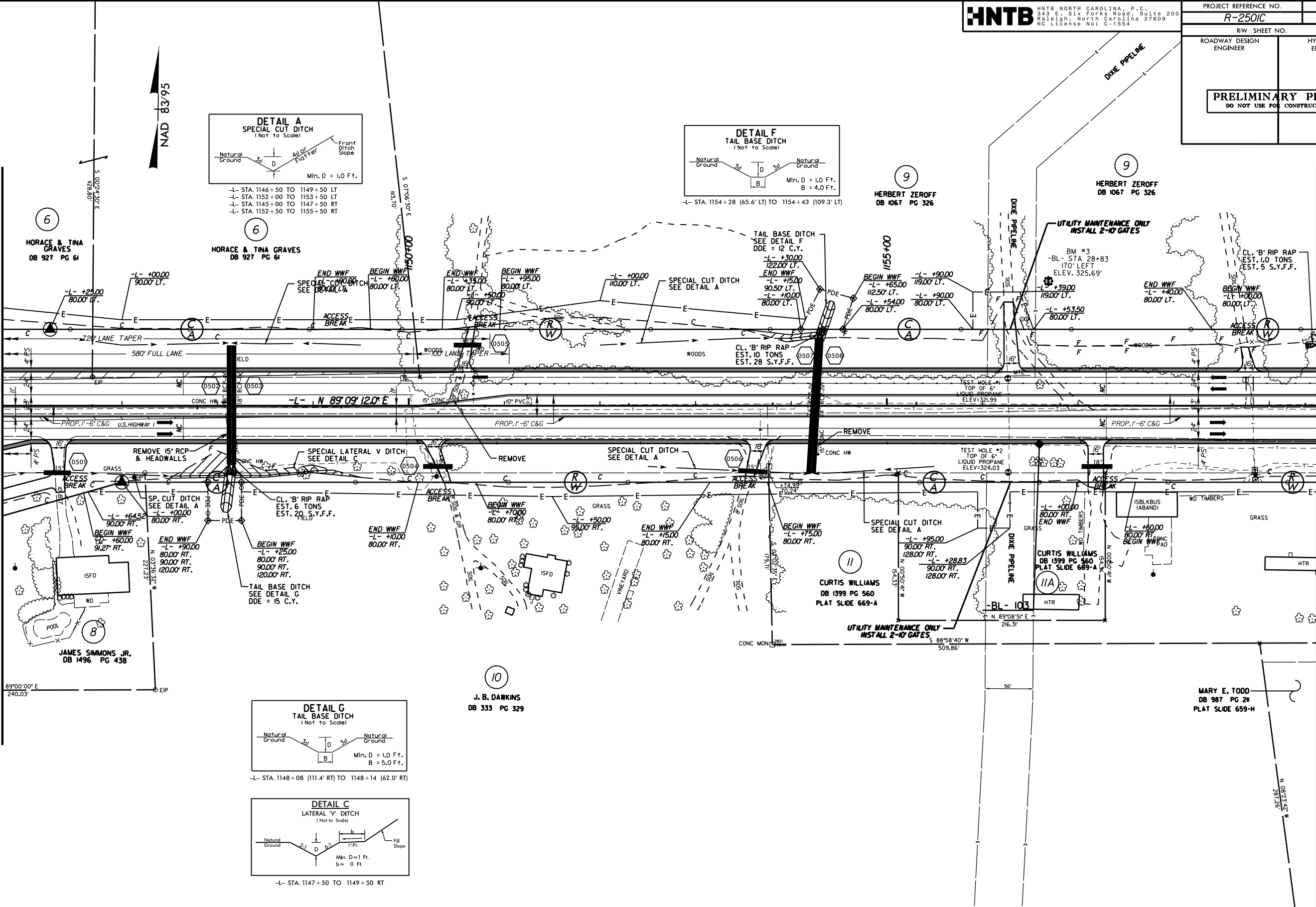
HNTB

HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO.		SHEET NO.
R-2501C		5
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

MATCHLINE -L- STA 1145+7500 SEE SHEET No. 4

MATCHLINE -L- STA 1159+5000 SEE SHEET No. 6



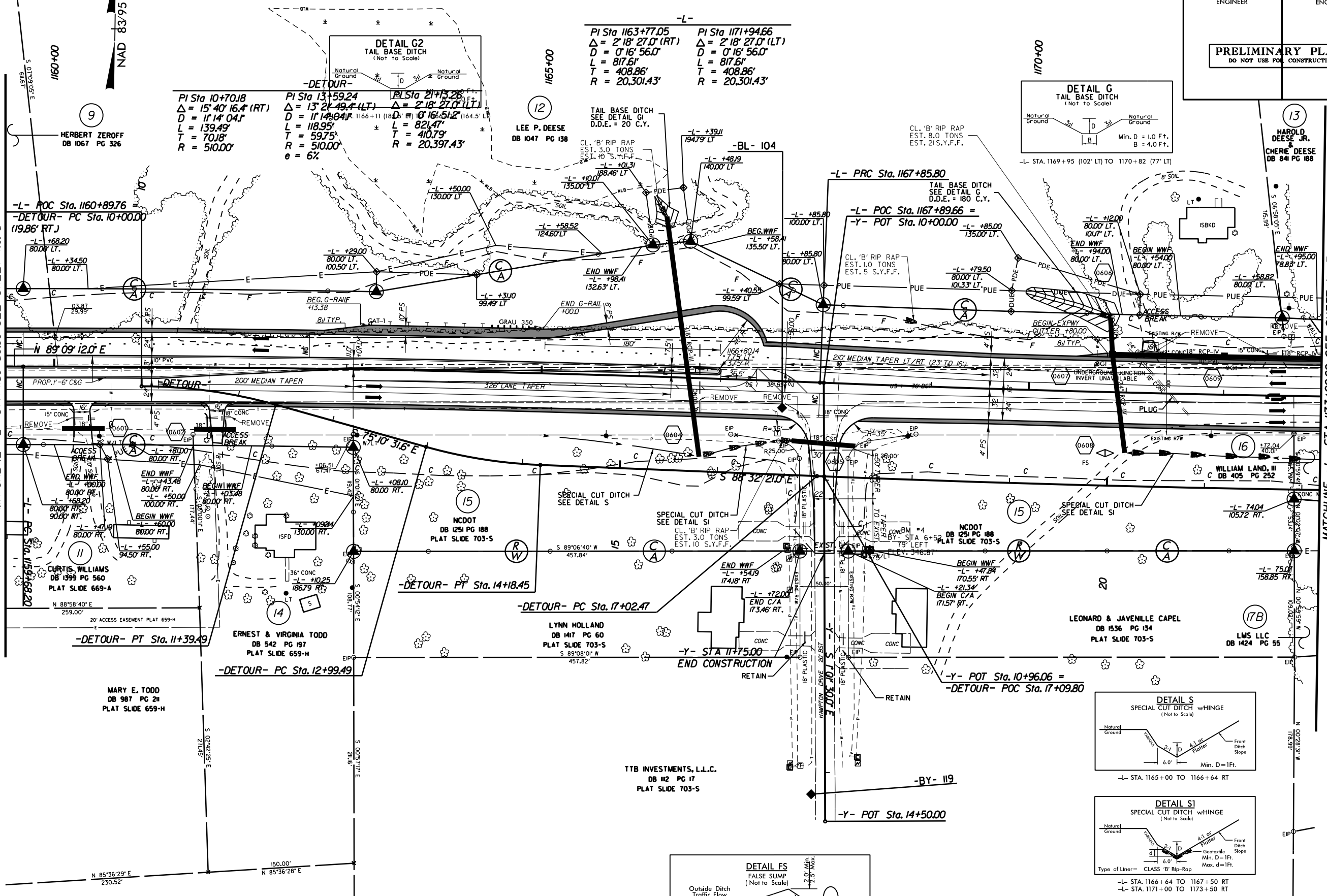
NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR -L- PROFILE SEE SHEET No. 20.
FOR -L-T/IEIN- PROFILE SEE SHEET No. 19.

8/17/99

REVISIONS
R/W REVISION NO.1 - CORRECTED SPELLING OF PARCEL NAME TO HERBERT ZEROFF AND CHANGED PARCEL NO.17 TO 17B DATED 12/6/13.
R/W REVISION NO.2 - REVISION DUE TO RELOCATION OF BULB-OUT AFFECTING PARCEL NOS.12 AND 13, REMOVED PUE'S ON LYNN HOLLAND AND LEONARD CAPEL PROPERTIES ALONG -Y-, 104/21/14)
R/W REVISION NO.3 - ADDED PUE ON PARCEL 11, 108/14/14)

MATCHLINE -L- STA 1159+50.00 SEE SHEET No. 5

MATCHLINE -L- STA 1173+00.00 SEE SHEET No. 7



NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR -L- PROFILE SEE SHEET No. 20 & 21.
FOR -Y- PROFILE SEE SHEET No. 28.
FOR DETOUR PLANS SEE SHEET No. 2-H & 2-I.

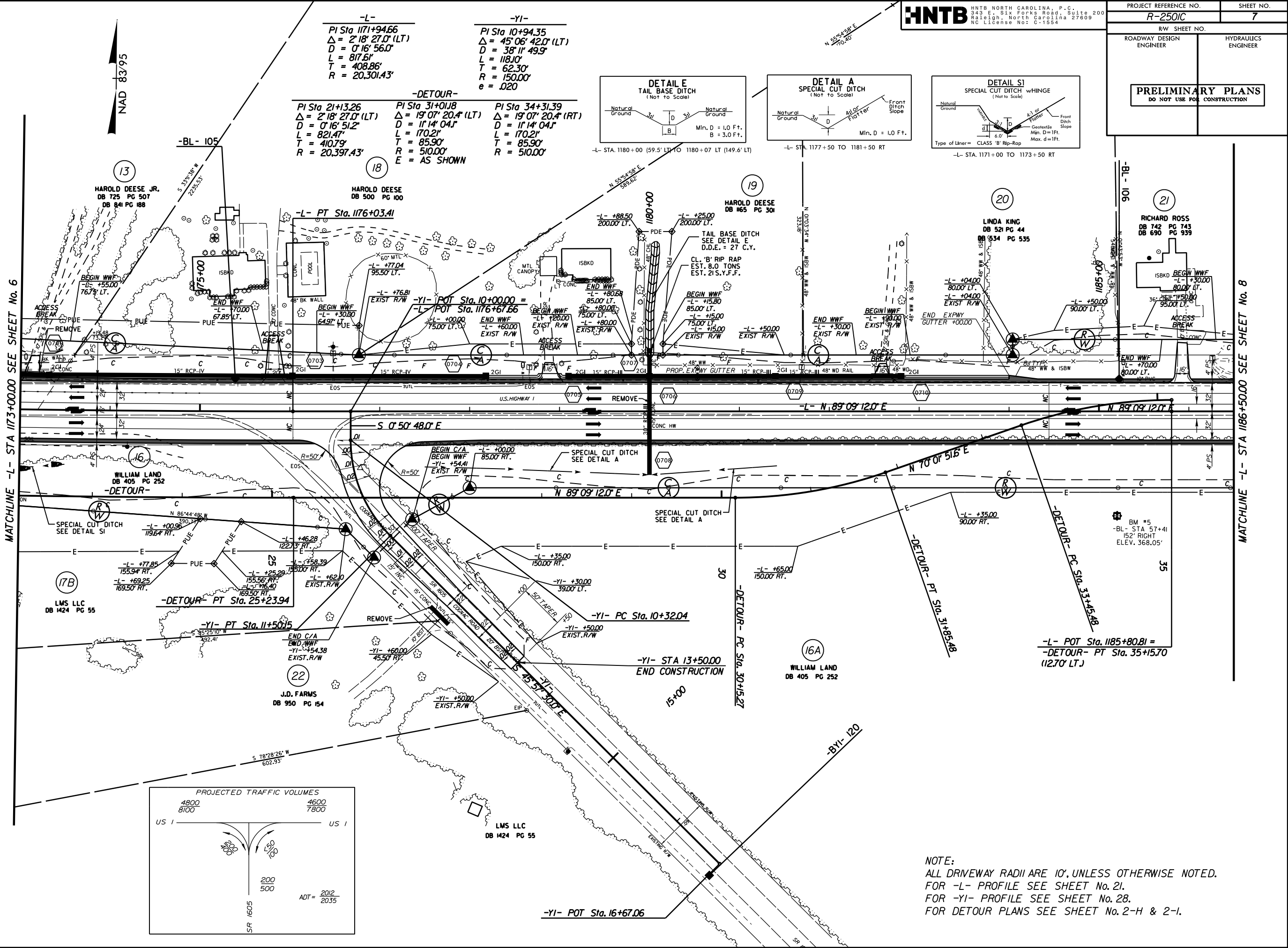
8/17/99

HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO.		SHEET NO.
R-2501C		7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

MATCHLINE -L- STA 1173+00.00 SEE SHEET No. 6

MATCHLINE -L- STA 1186+50.00 SEE SHEET No. 8



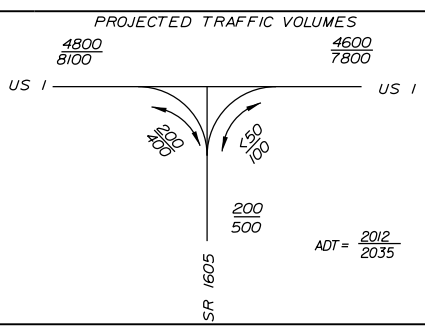
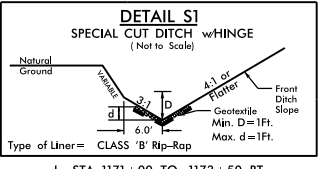
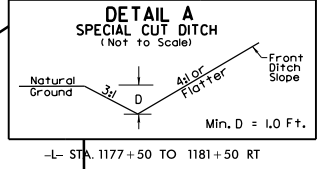
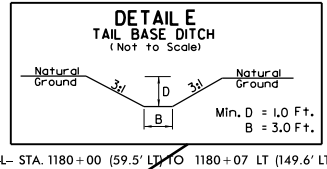
-L-
PI Sta 1171+94.66
 $\Delta = 2' 18'' 27.0''$ (LT)
D = 0' 16' 56.0"
L = 817.6'
T = 408.86'
R = 20,301.43'

-YI-
PI Sta 10+94.35
 $\Delta = 45' 06'' 42.0''$ (LT)
D = 38' 11' 49.9"
L = 118.0'
T = 62.30'
R = 150.00'
e = .020

-DETOUR-
PI Sta 21+13.26
 $\Delta = 2' 18'' 27.0''$ (LT)
D = 0' 16' 51.2"
L = 821.47'
T = 410.79'
R = 20,397.43'

PI Sta 31+01.18
 $\Delta = 19' 07'' 20.4''$ (LT)
D = 11' 14' 04.1"
L = 170.21'
T = 85.90'
R = 510.00'
E = AS SHOWN

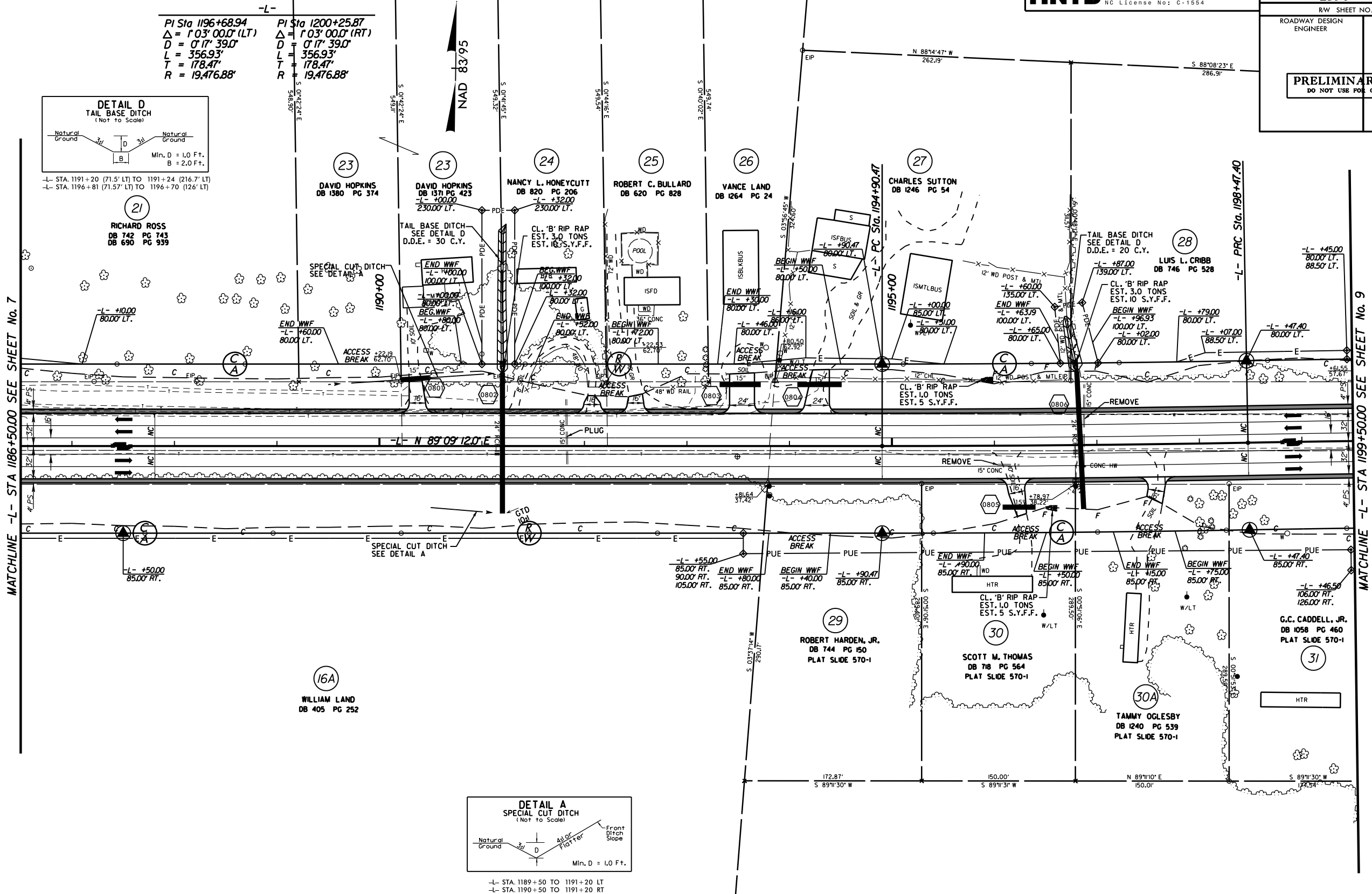
PI Sta 34+31.39
 $\Delta = 19' 07'' 20.4''$ (RT)
D = 11' 14' 04.1"
L = 170.21'
T = 85.90'
R = 510.00'



NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR -L- PROFILE SEE SHEET No. 21.
FOR -YI- PROFILE SEE SHEET No. 28.
FOR DETOUR PLANS SEE SHEET No. 2-H & 2-I.

REVISIONS
R/W REVISION NO. 1 - CHANGED PARCEL NO. 17 TO 7B DATED 12/16/13.
R/W REVISION NO. 2 - SEPARATE PARCEL NO. 16 TO TWO PARCELS NOS. 16 AND 16A DATED 3/12/14.
R/W REVISION NO. 3 - REVISION DUE TO RELOCATION OF BULB-OUT AFFECTING PARCELS NOS. 13 AND 18. (05/05/14)

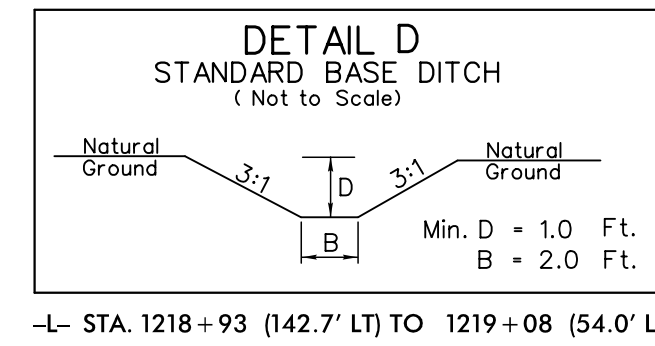
02-MAY-2014 09:48
R:\Roadway\Projects\2501c-rd\PSH07.dgn
USER:RAMESS



NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR -L- PROFILE SEE SHEET No. 21 & 22.

REVISIONS
R/W REVISION NO.1 - COMBINED PARCEL NOS. 23 AND 23A TO PARCEL NO. 23 DATED 12/6/13.
R/W REVISION NO.2 - SEPARATE PARCEL NO. 16 TO TWO PARCEL NOS. 16 AND 16A DATED 3/12/14.





3:23:39 PM
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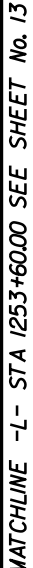
NOTE:
FOR -L- PROFILE SEE SHEET No. 23.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



PI Sta 10+64.73
 $\Delta = 22^\circ 59' 41.0''$ (RT)
 $D = 38^\circ 11' 49.9''$
 $L = 60.20'$
 $T = 30.51'$
 $R = 150.00'$

NAD 83/95



ROCKINGHAM RACEWAY PARK
DB 1446 PG 109
PLAT SLIDE 657-H

ROCKINGHAM RACEWAY PARK
DB 1446 PG 109
PLAT SLIDE 657-H

NOTE:
FOR -L- PROFILE SEE SHEET No. 23 & 24.
FOR -Y2- PROFILE SEE SHEET No. 28.

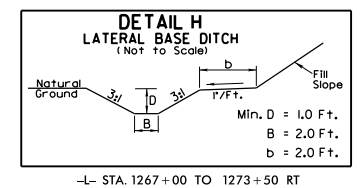
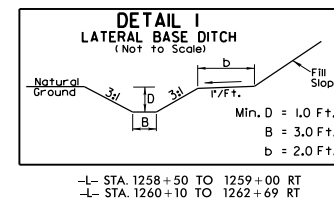
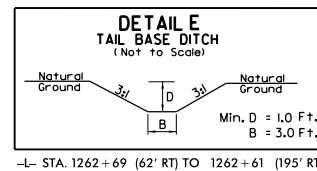
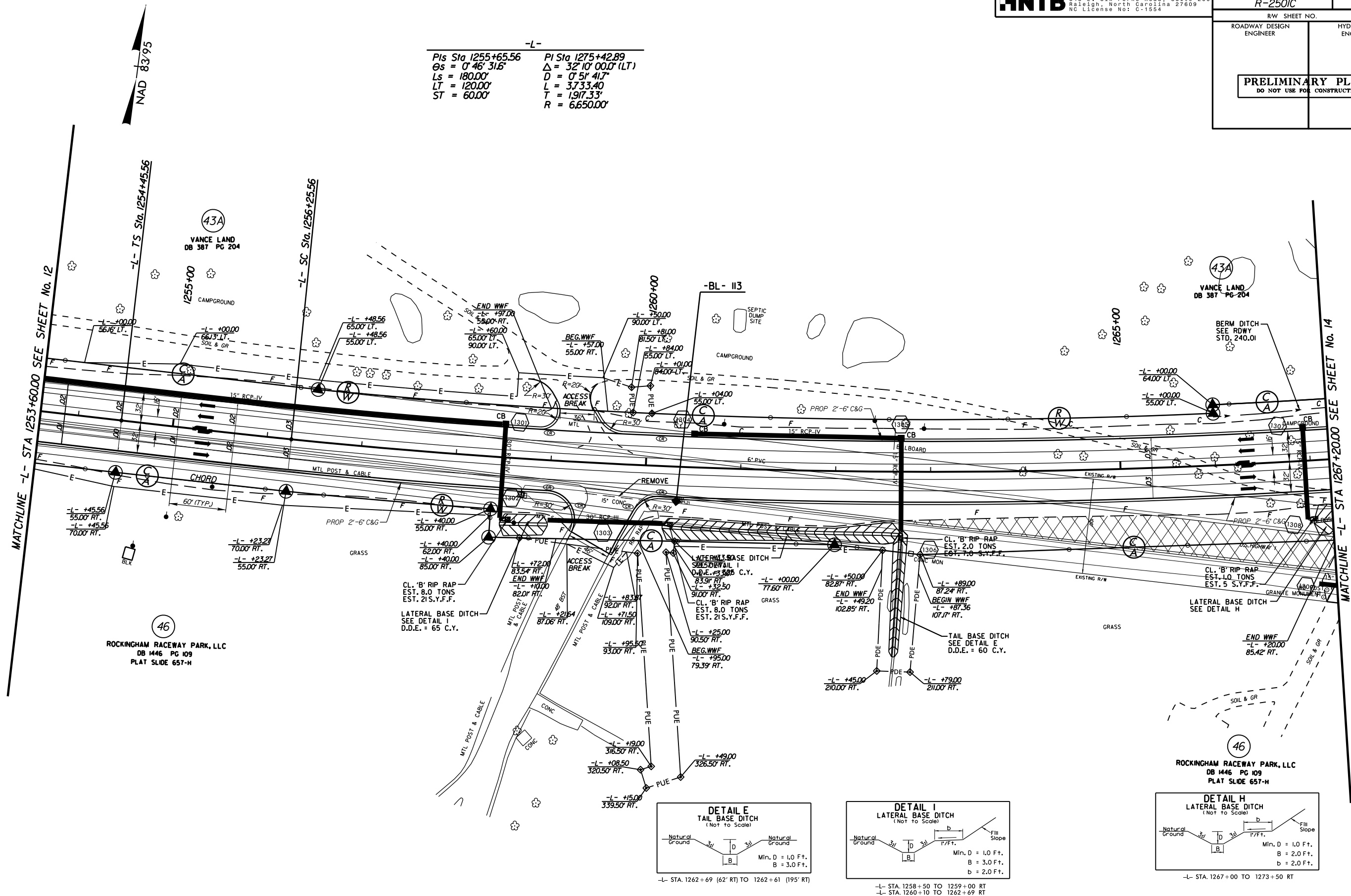
REVISIONS

R/W REVISION NO.1 - CHANGED PARCEL NO.43 TO 43A DATED 12/6/13.

20-FEB-2014 10:39
R:\Roadway\Project\2501c_rdy_PSH12.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
R-2501C	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

-L-
 PIs Sta 1255+65.56 PI Sta 1275+42.89
 $\Theta_s = 0^\circ 46' 31.6''$ $\Delta = 32^\circ 10' 00.0''$ (LT)
 Ls = 180.00' D = 0' 51' 41.7"
 LT = 120.00' L = 3733.40
 ST = 60.00' T = 1917.33'
 R = 6650.00'



NOTE:
FOR -L- PROFILE SEE SHEET No. 24.

REVISIONS
 R/W REVISION NO.1 - CHANGED PARCEL NO.43 TO 43A DATED 12/6/13
 R/W REVISION NO.2 - REVISED C/A FENCE LOCATION FOR PARCELS 46 & 63 AND RETAIN A PORTION OF EXISTING PAVEMENT TO PROVIDE ACCESS TO PARCEL 63 DATED 7/18/14.
 R/W REVISION NO.3 - REVISED PUE AND TCE ON PARCEL 43A AND ADDED PUE ON PARCEL 46 WHICH ADJUSTED TCE DATED 8/14/14.

8/17/99

14-AUG-2014 08:34
 R:\Roadway\Projects\2501c-rd\PSH13.dgn
 \$\$\$\$USERNAME\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
R-2501C	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

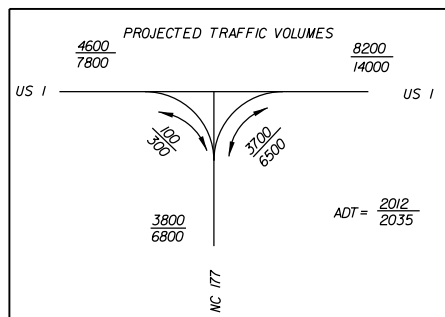
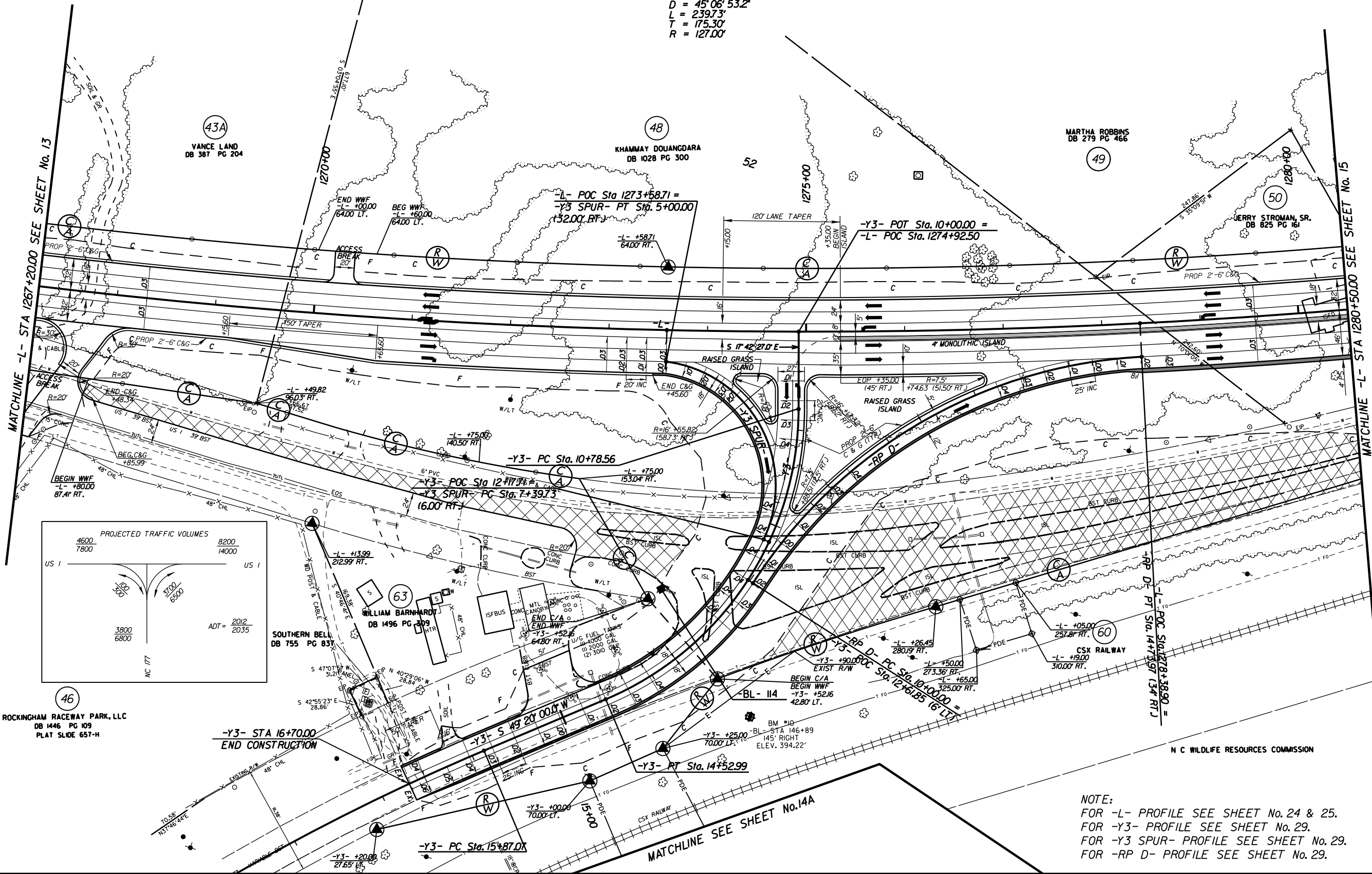
-L-
PI Sta 1275+42.89
Δ = 32° 10' 00.0" (LT)
D = 0° 51' 41.7"
L = 3733.40
T = 1917.33'
R = 6650.00'

-Y3-
PI Sta 12+90.53
Δ = 67° 02' 27.0" (RT)
D = 17° 54' 17.8"
L = 374.43'
T = 211.97'
R = 320.00'

PI Sta 19+14.34
Δ = 16° 16' 00.0" (LT)
D = 2° 30' 07.2"
L = 650.15'
T = 327.27'
R = 2290.00'

-RP D-
PI Sta 12+56.49
Δ = 54° 18' 46.9" (RT)
D = 1° 27' 33.0"
L = 473.97'
T = 256.49'
R = 500.00'

-Y3 SPUR-
PI Sta 6+75.30
Δ = 108° 09' 21.0" (RT)
D = 45° 06' 53.2"
L = 239.73'
T = 175.30'
R = 127.00'



ROCKINGHAM RACEWAY PARK, LLC
DB 1446 PG 109
PLAT SLIDE 657-H

-Y3- STA 16+70.00
END CONSTRUCTION

-Y3- PC Sta. 15+87.07

MATCHLINE SEE SHEET No. 14A

NOTE:
FOR -L- PROFILE SEE SHEET No. 24 & 25.
FOR -Y3- PROFILE SEE SHEET No. 29.
FOR -Y3 SPUR- PROFILE SEE SHEET No. 29.
FOR -RP D- PROFILE SEE SHEET No. 29.

N C WILDLIFE RESOURCES COMMISSION

REVISIONS
R/W REVISION NO. 1 - ON PARCEL 60 CHANGED TOE TO POE INSIDE RR R/W DATED 11/26/13.
R/W REVISION NO. 2 - CHANGED PARCEL NO. 43 TO 43A DATED 12/6/13.
R/W REVISION NO. 3 - ADDED 60 FT ACCESS BREAK FOR PARCEL 48 DATED 2/7/14.
R/W REVISION NO. 4 - REVISED C/A FENCE LOCATION FOR PARCELS 46 & 63 AND RETAIN A PORTION OF EXISTING PAVEMENT TO PROVIDE ACCESS TO PARCEL 63 DATED 7/18/14.

8/17/99

18-JUL-2014 14:57
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\$\$\$\$\$USERNAME\$\$\$\$\$

8/17/99

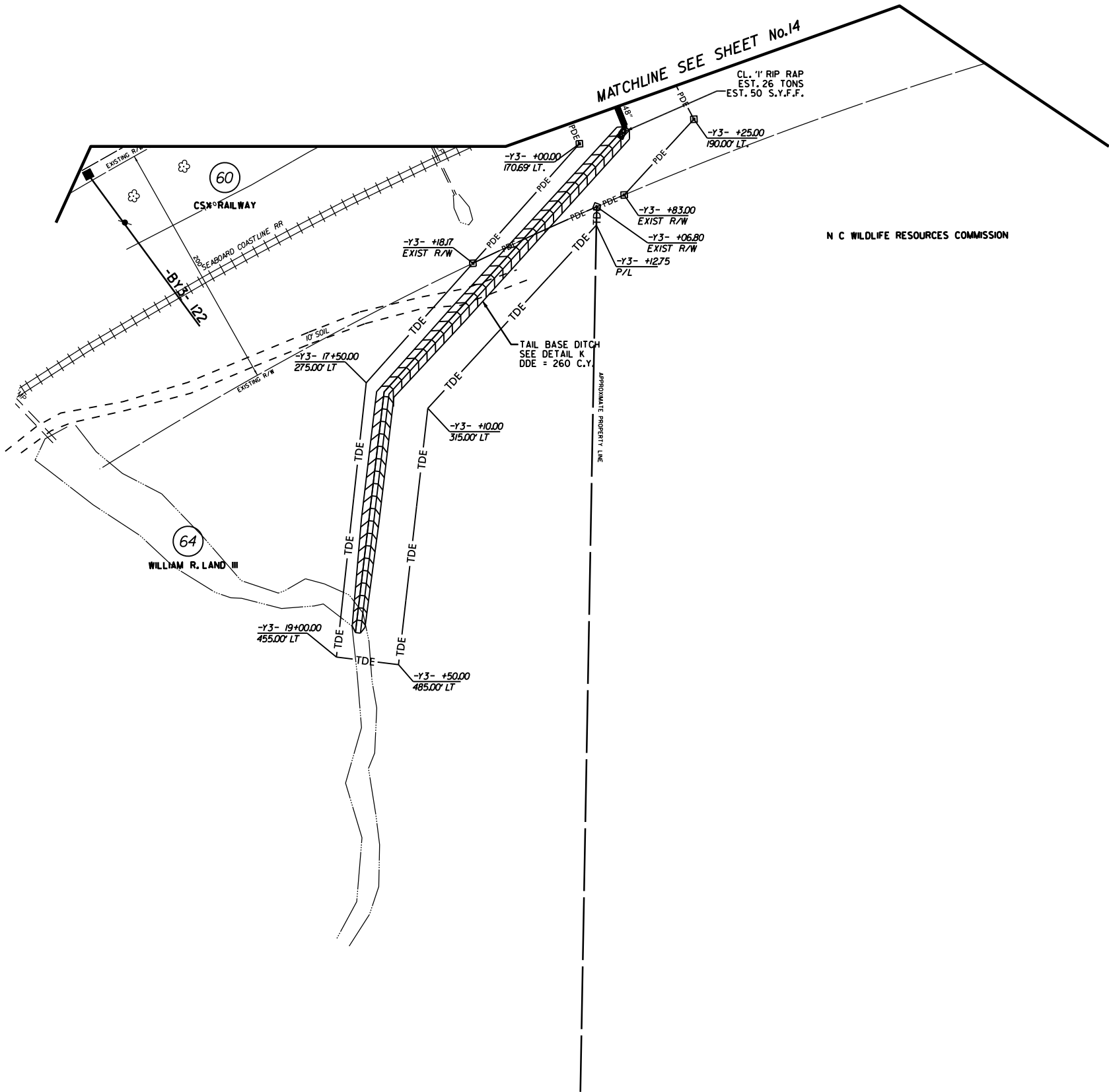
REVISIONS
R/W REVISION ON PARCEL 60, CHANGED TDE TO PDE INSIDE RR R/W DATED 11/26/13.

20-FEB-2014 11:37
R:\Roadway\Projects\2501c-rdy_PSH14A.dgn

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO.		SHEET NO.	
R-2501C		14A	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			



NOTE:
FOR DITCH PROFILE SEE SHEET No. 29.

8/17/99

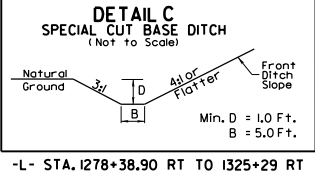
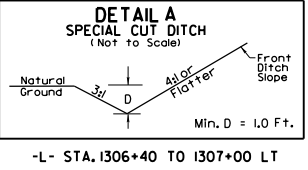
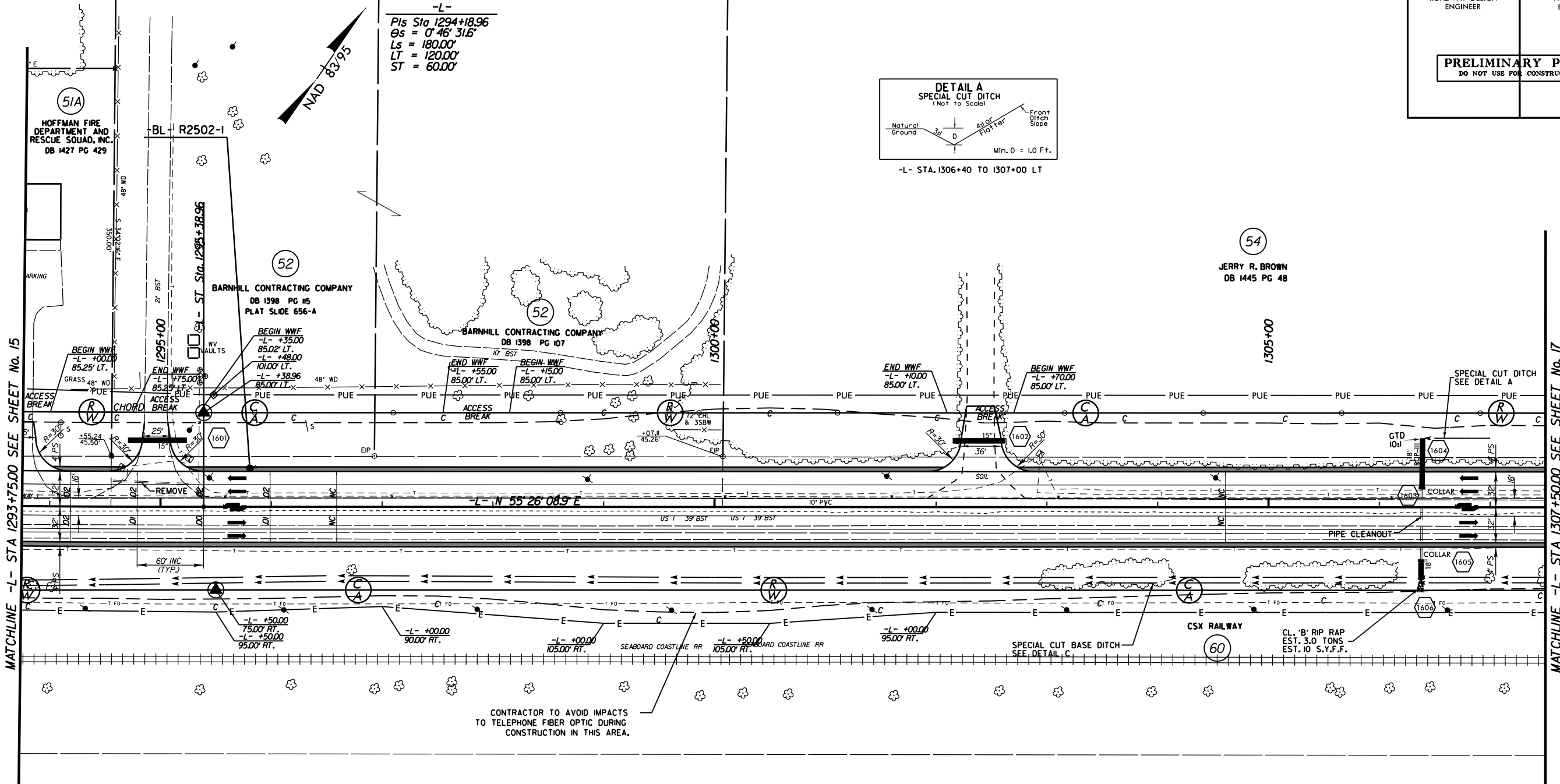
REVISIONS
R/W REVISION NO.1 - COMBINED PARCEL NOS.52 AND 53 TO PARCEL NO.52 DATED 12/6/13.

20-FEB-2014 11:50
R:\Roadway\Projects\2501c-rdy_PSH16.dgn
*****REVENUE*****

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
SALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

PROJECT REFERENCE NO.		SHEET NO.
R-2501C		16
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		



NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR -L- PROFILE SEE SHEET No. 25.

8/17/99

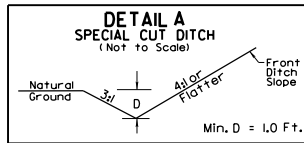
REVISIONS
R/W REVISION NO.1 - CHANGED PARCEL OWNERSHIP ON PARCEL 57 TO JEFFREY HUGH MOSS SALDADO 12/6/15.

20-FEB-2014 JJF53
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*****REVENUE*****

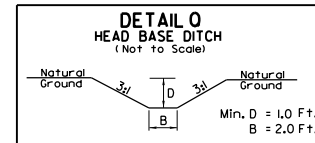
HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

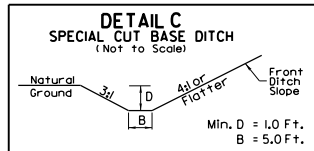
PROJECT REFERENCE NO. <i>R-2501C</i>		SHEET NO. <i>17</i>
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		



-L- STA. 1314+50 TO 1317+50 LT



-L- STA. 1315+98 (107' LT) TO 1315+89 (68' LT)



-L- STA. 1278+38.90 RT TO 1325+29 RT

MATCHLINE -L- STA 1307+50.00 SEE SHEET No. 16

MATCHLINE -L- STA 1321+00.00 SEE SHEET No. 18

CONTRACTOR TO AVOID IMPACTS
TO TELEPHONE FIBER OPTIC DURING
CONSTRUCTION IN THIS AREA.

N C WILDLIFE RESOURCES COMMISSION

AMERICAN TIMBERLAND II LLC
DB 1060 PG 422

NOTE:
ALL DRIVEWAY RADII ARE 10', UNLESS OTHERWISE NOTED.
FOR -L- PROFILE SEE SHEET No. 25 & 26.

8/17/99

REVISIONS

20-FEB-2014 JJF55
R:\Roadway\Projects\2501c-rdy_PSH18.dgn
SHEAVE

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.

R-250IC

SHEET NO.

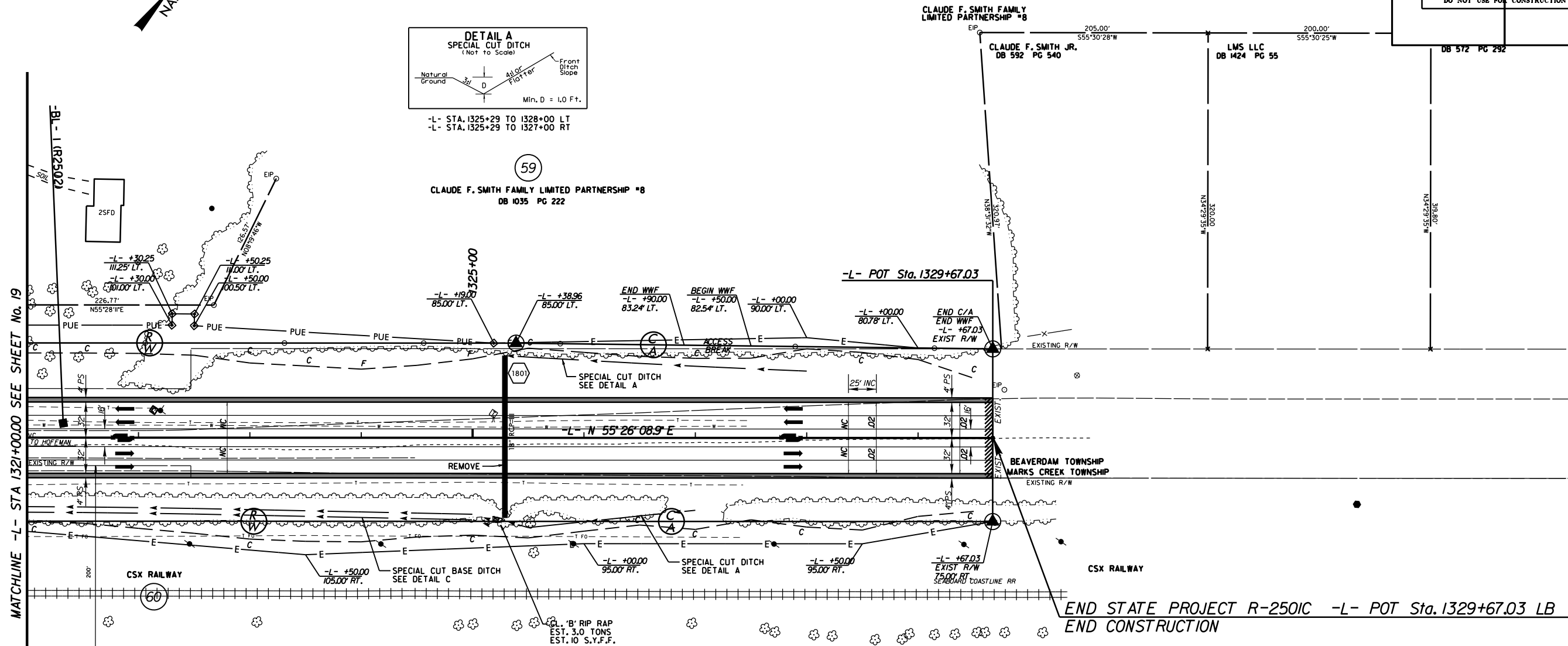
18

R/W SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

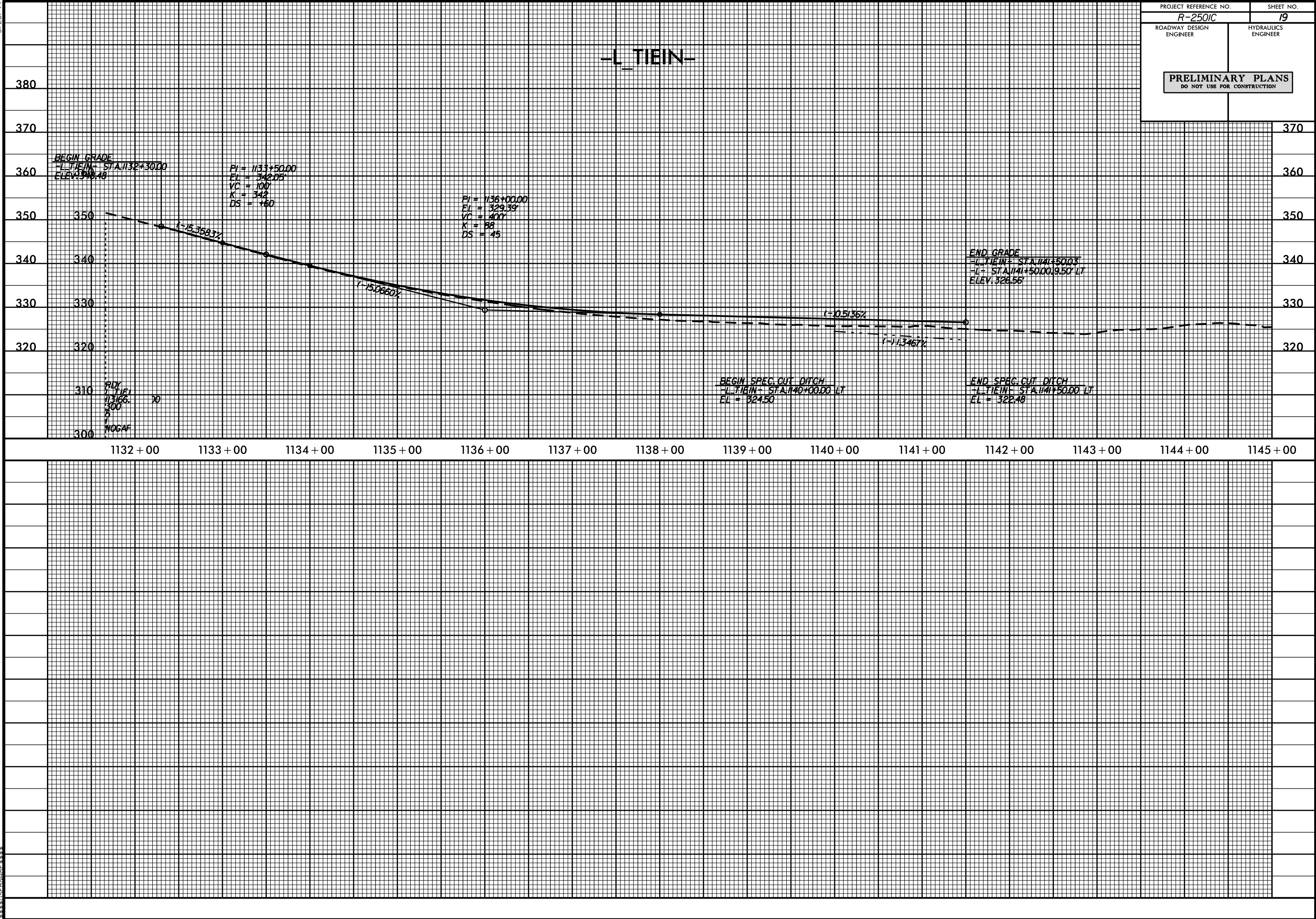
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

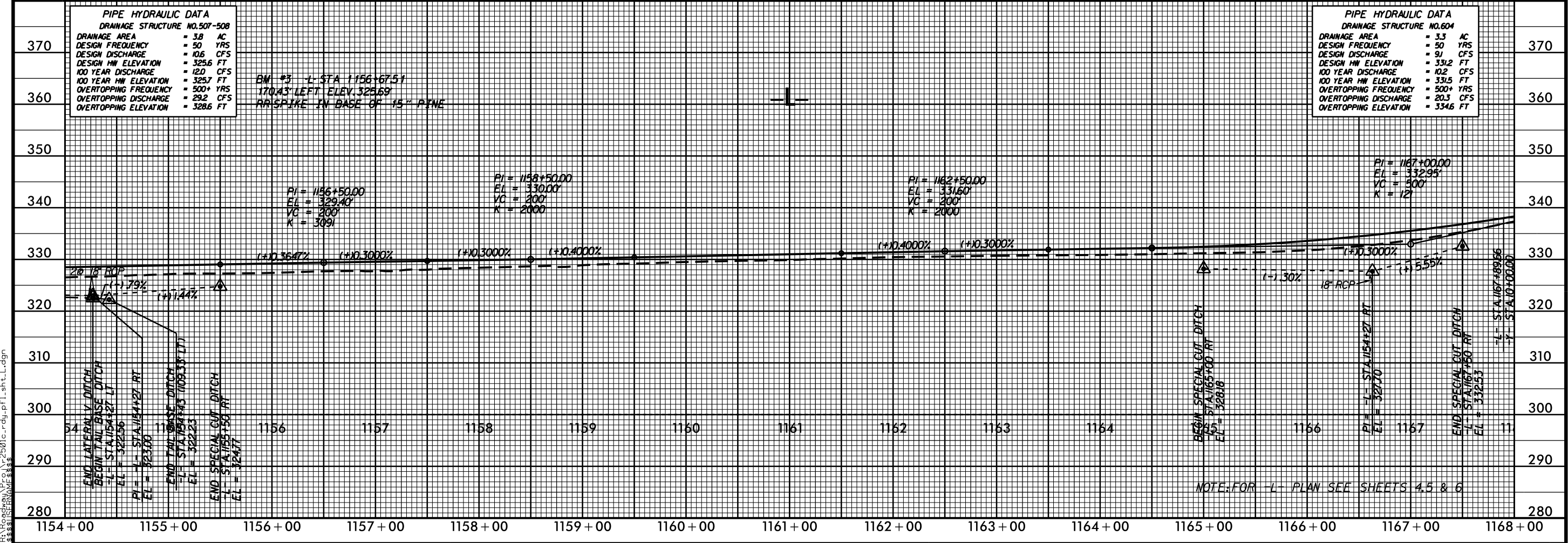
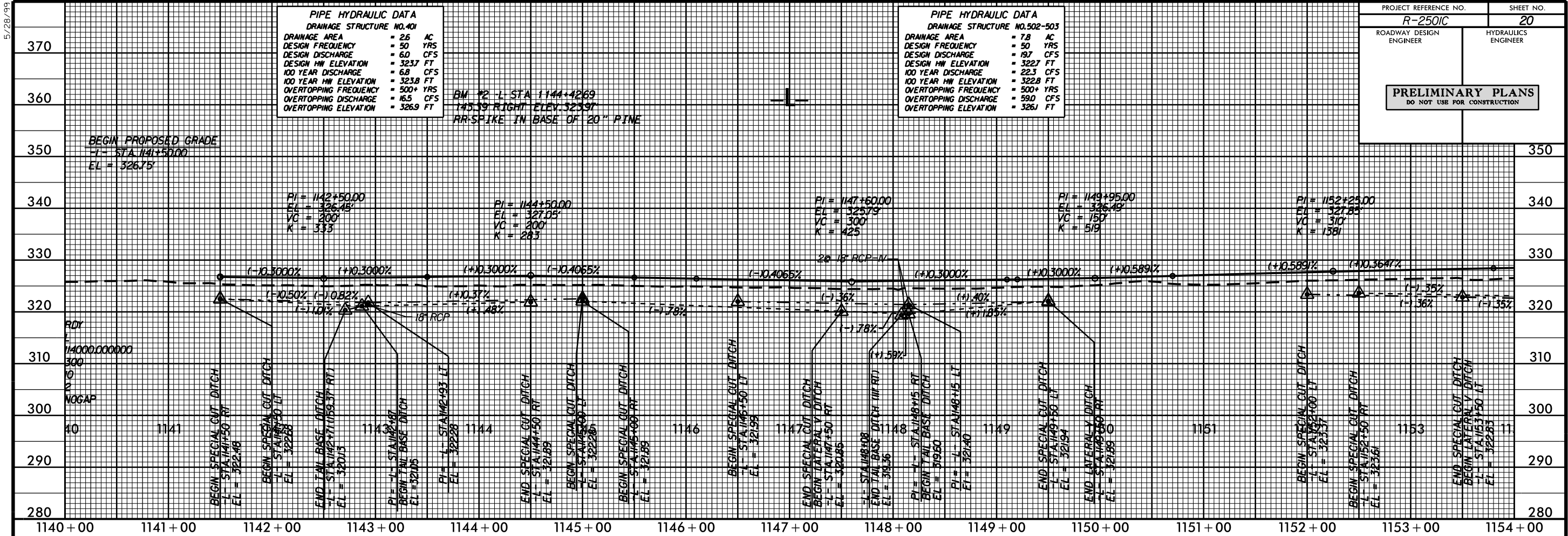


NOTE:
FOR -L- PROFILE SEE SHEET No. 26.

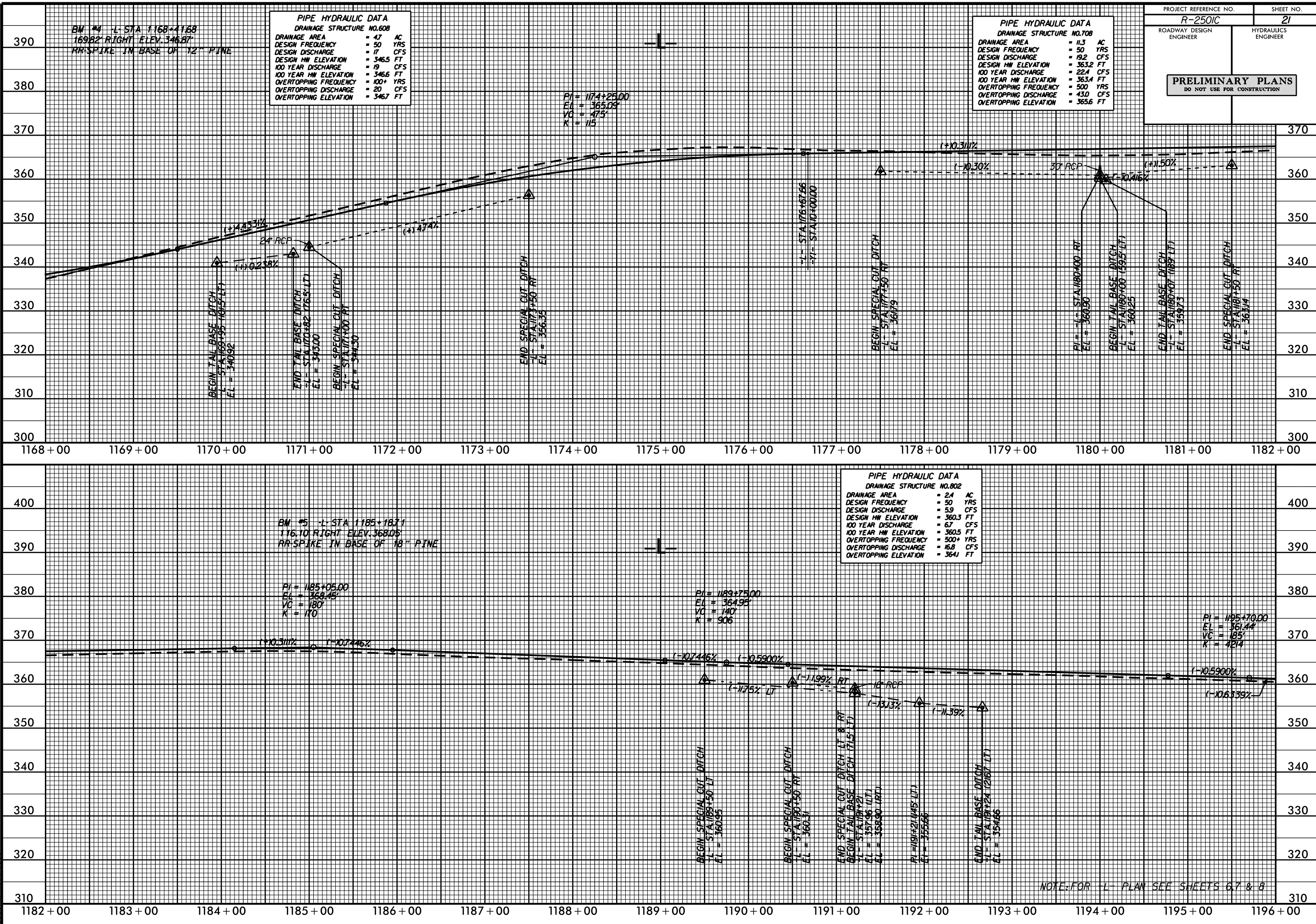
5/28/99

24-JUL-2013 11:44
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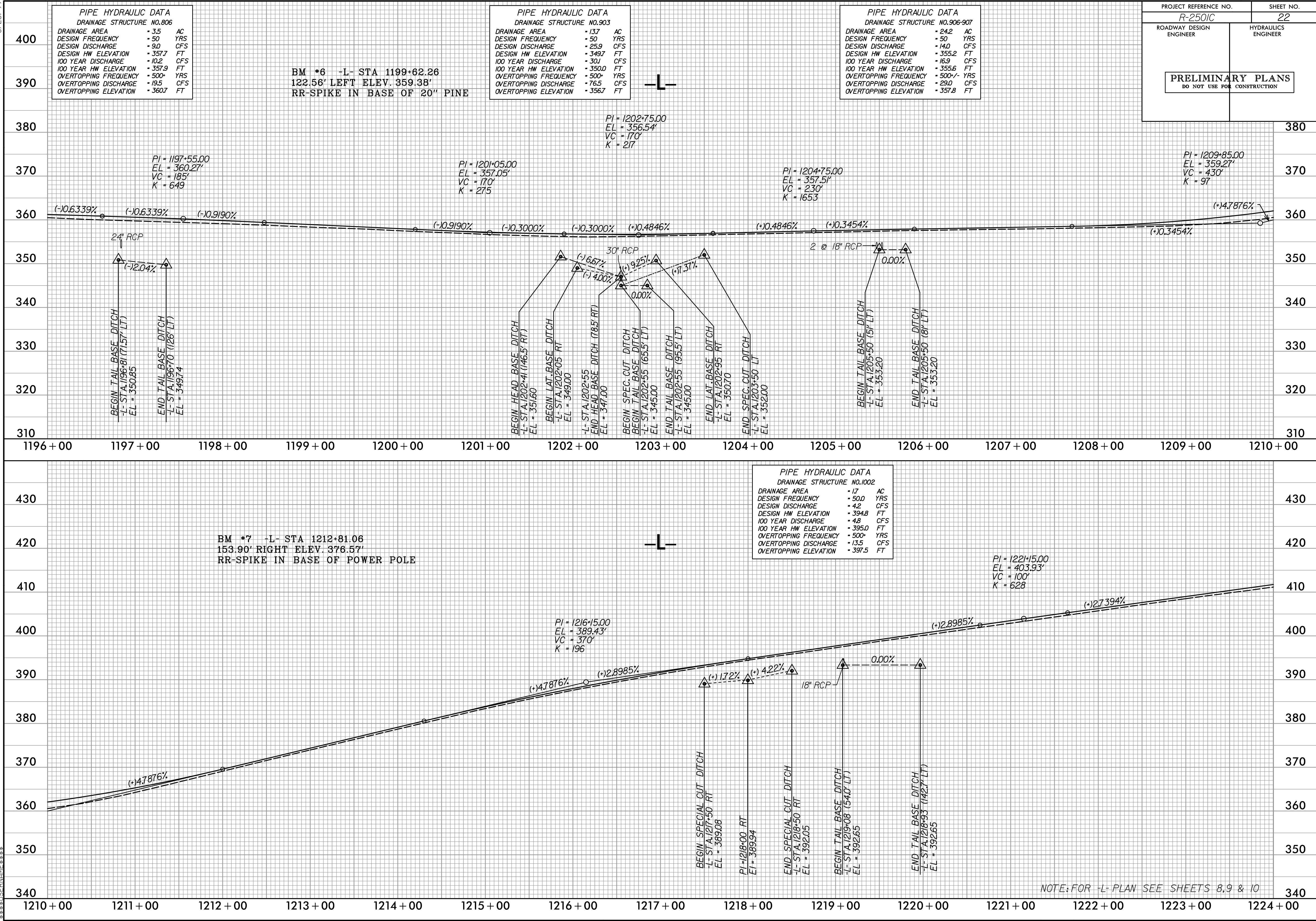


5/28/99
REVISION NO. 6 REVISED SPECIAL CUT DITCH RT -L- STA 1173+50 AND REVISED PIPE HYDRAULIC DATA FOR STRUCTURE NO. 608 (05/05/14)
02-MAY-2014 09:50
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\$\$\$\$\$



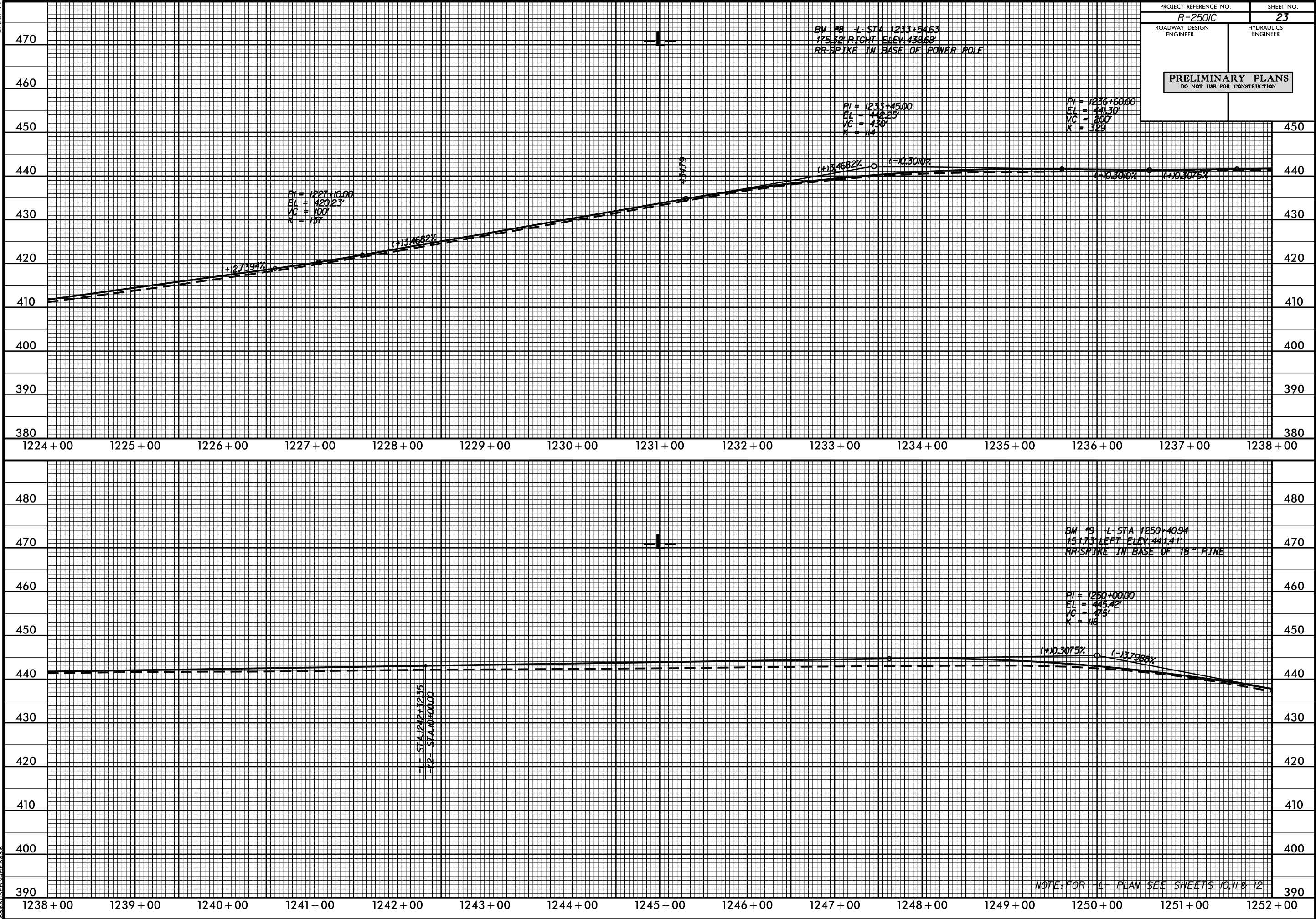
5/28/99

2:57:10 PM \\501c-rdy-plsht.L.dgn
\$\$\$\$\$CSTRAN1333\$



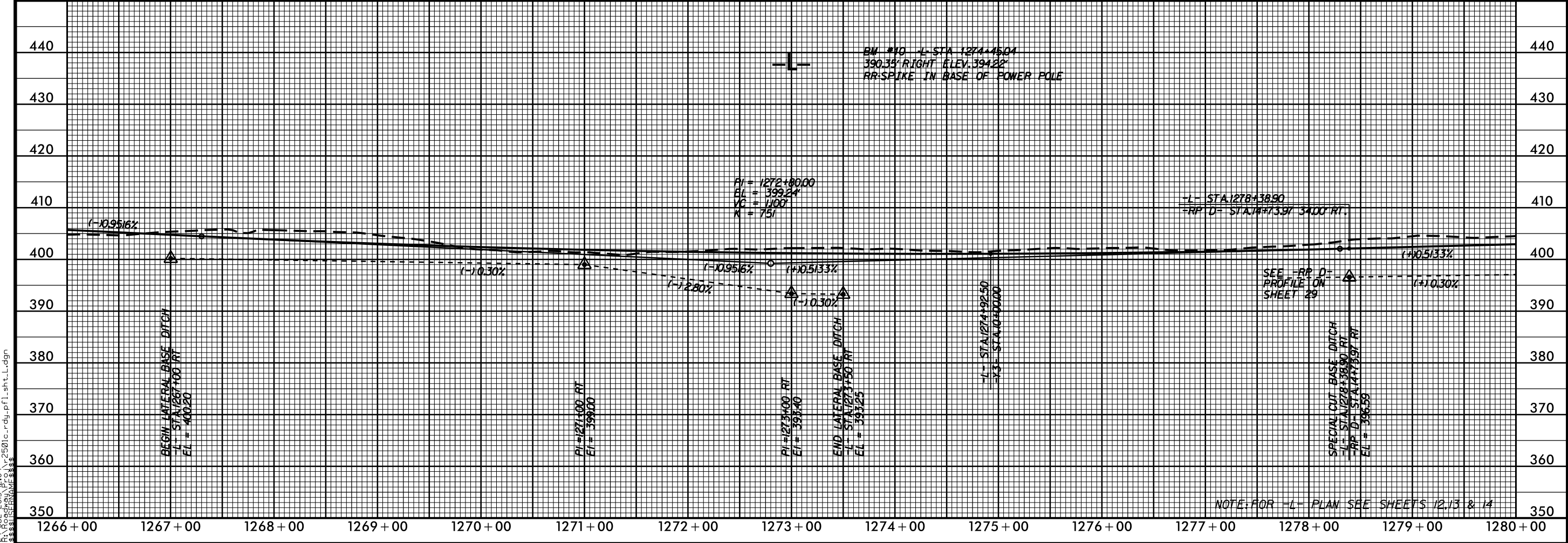
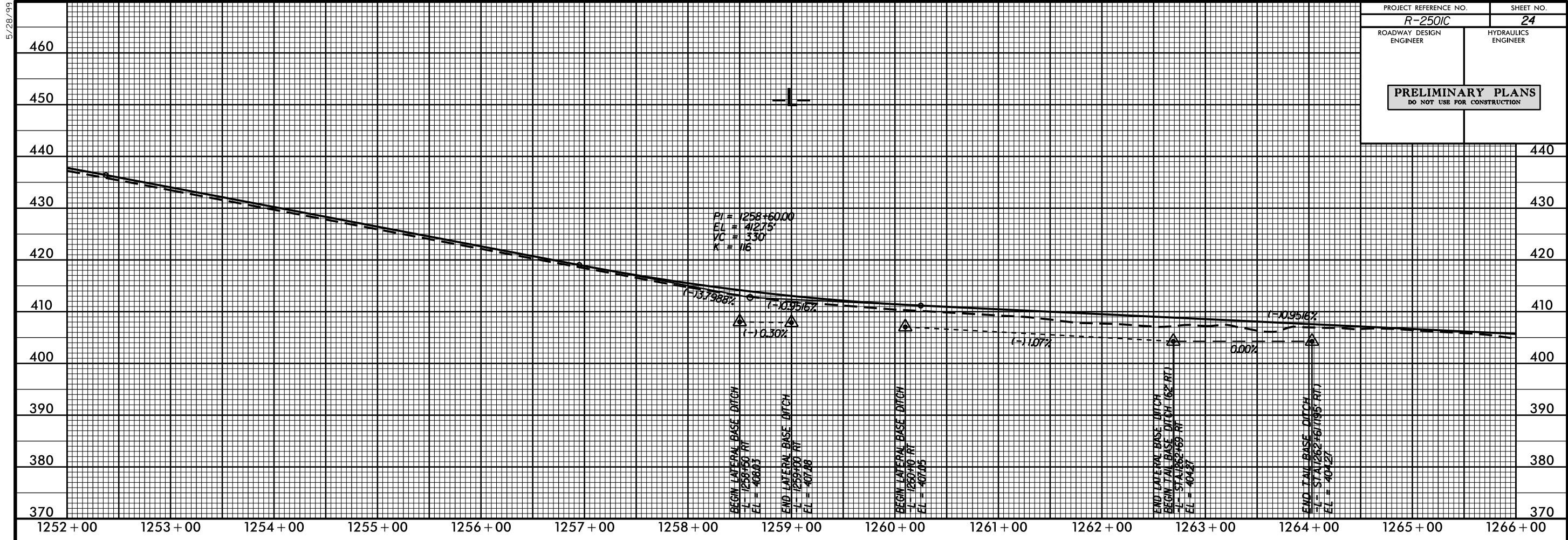
5/28/99

24-JUL-2013 11:56
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SSS:SSS

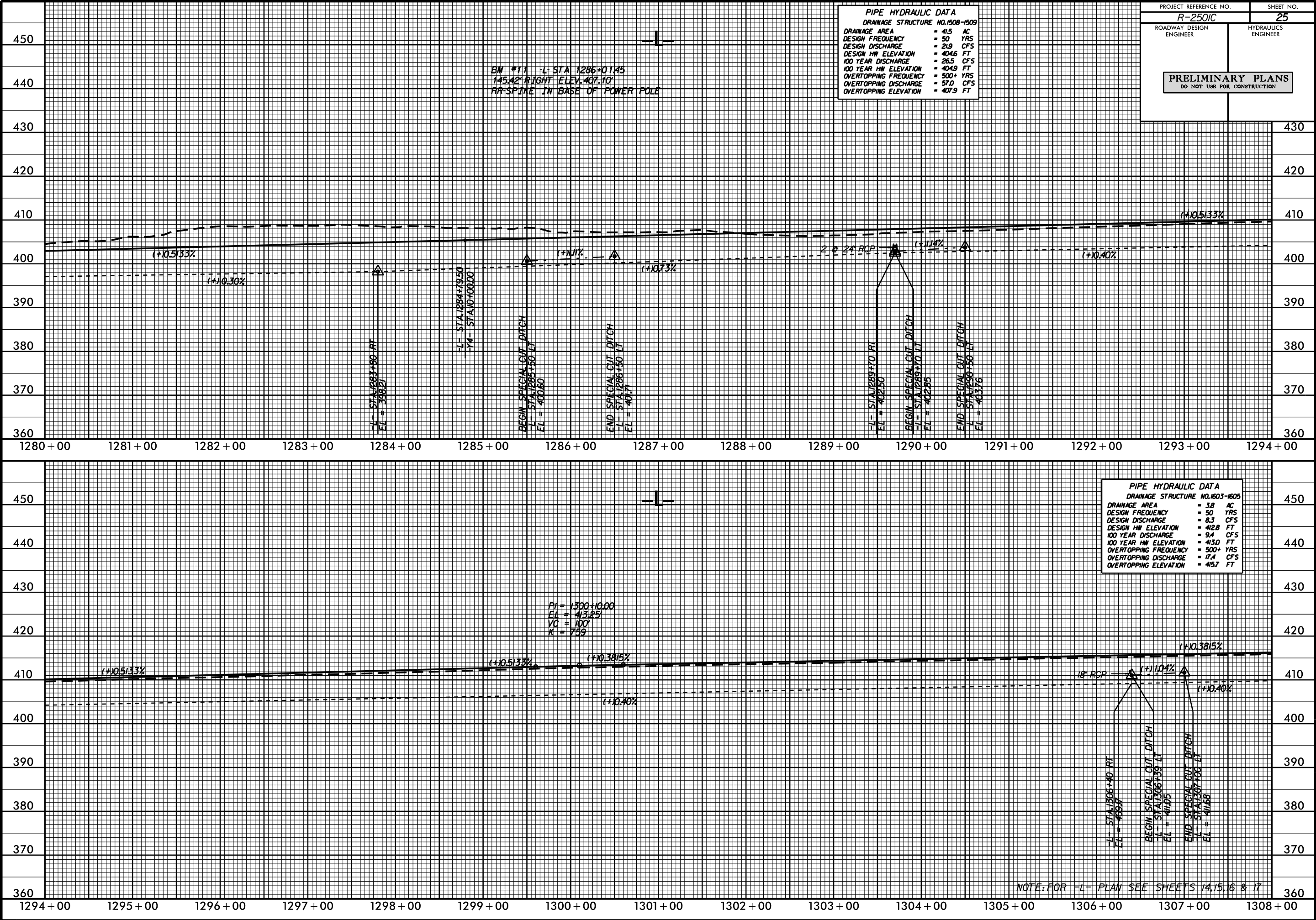


5/28/99

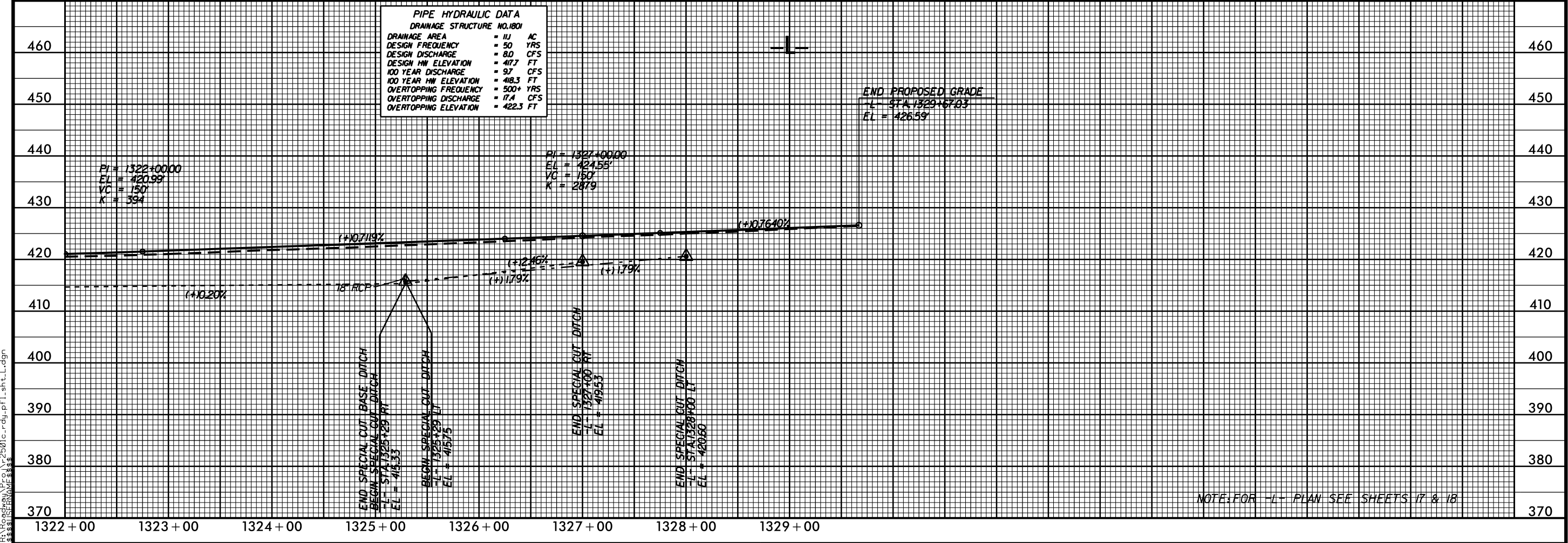
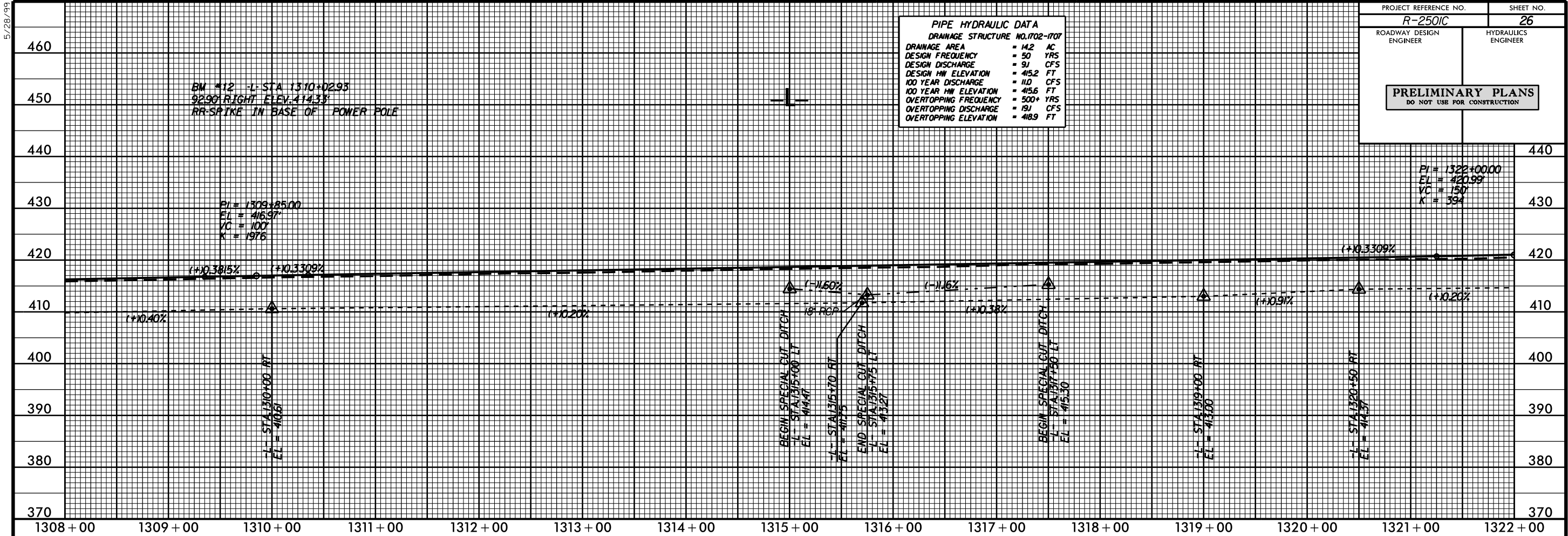
PROJECT REFERENCE NO. R-2501C		SHEET NO. 24
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		



24-JUL-2013 12:04
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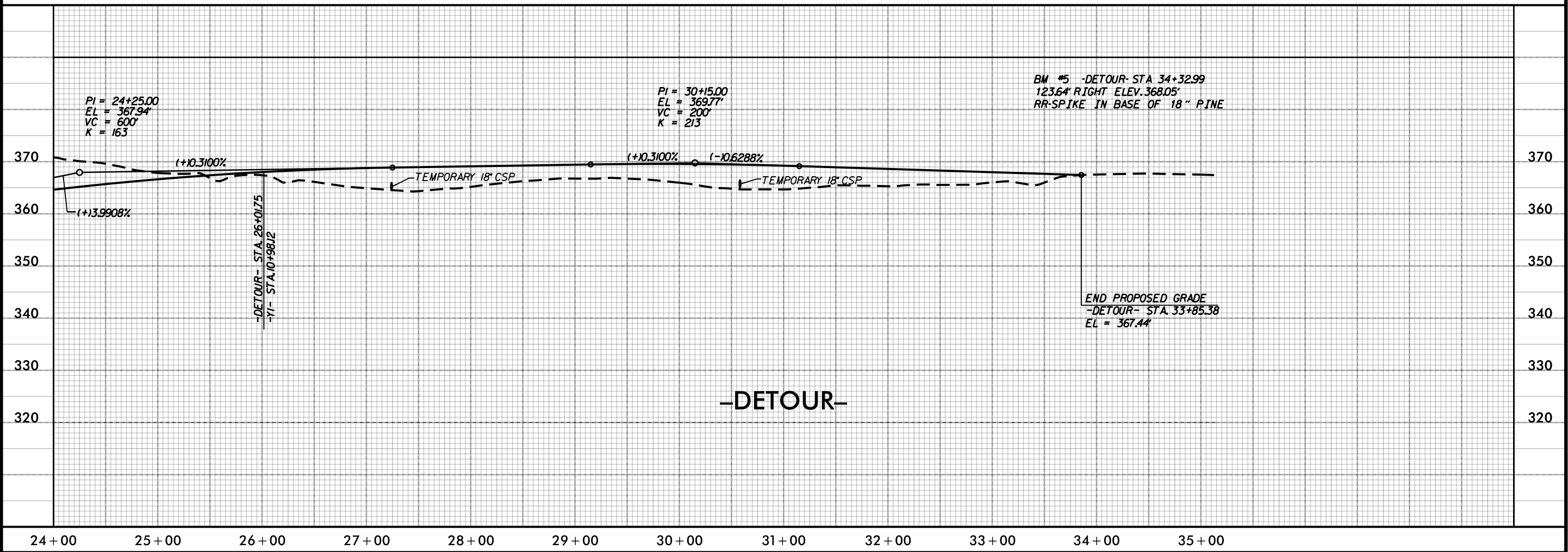
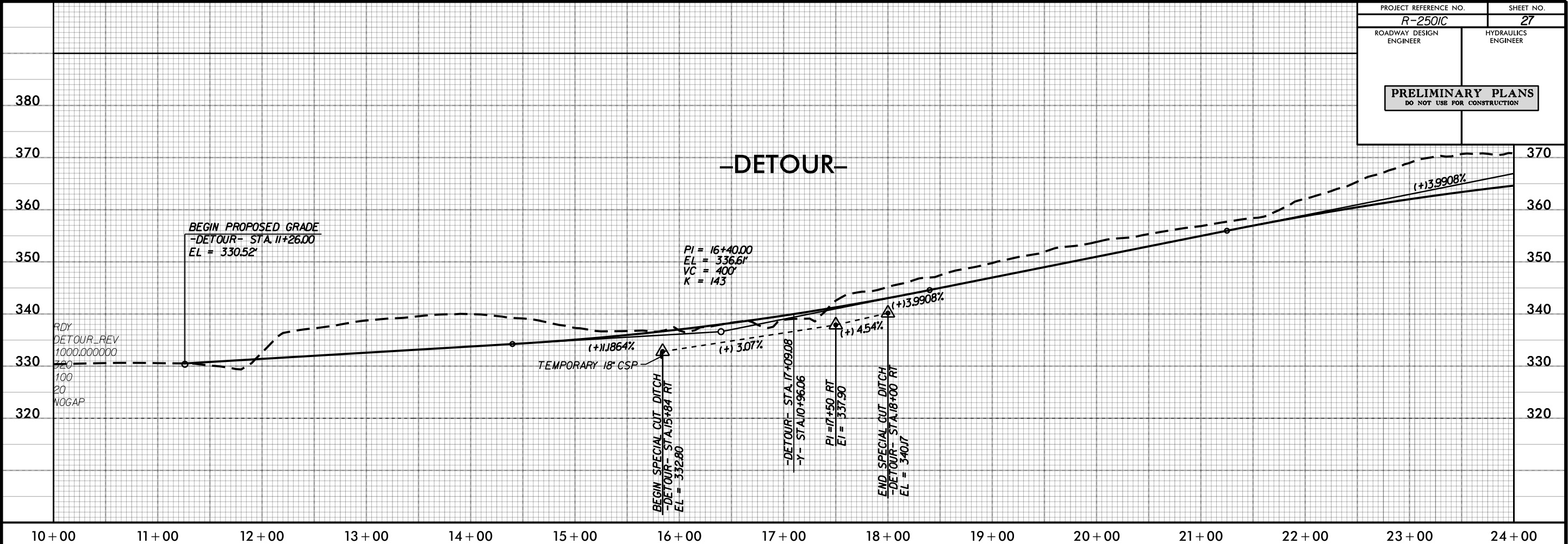
5/28/99



NOTE: FOR -L- PLAN SEE SHEETS 17 & 18

5/28/99

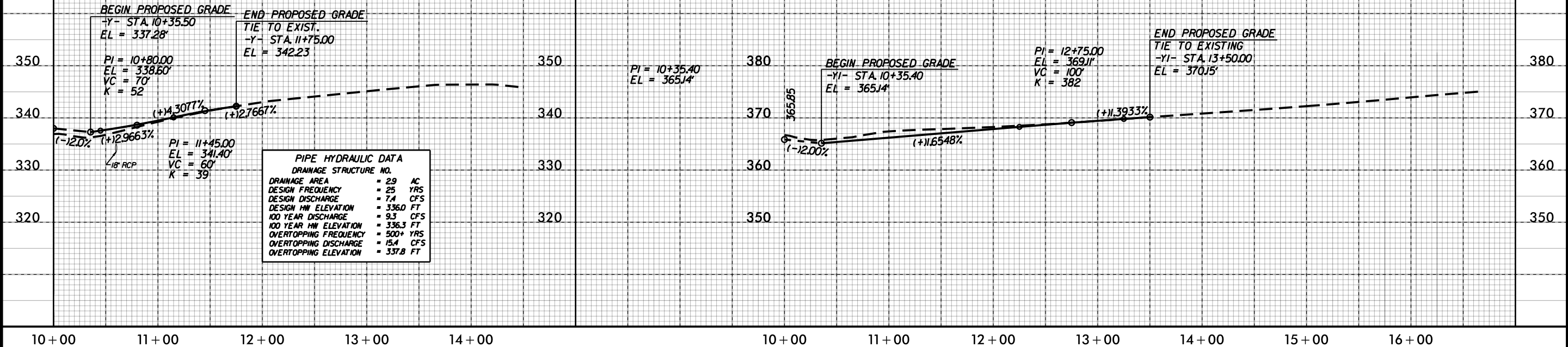
PROJECT REFERENCE NO.	SHEET NO.
R-2501C	27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



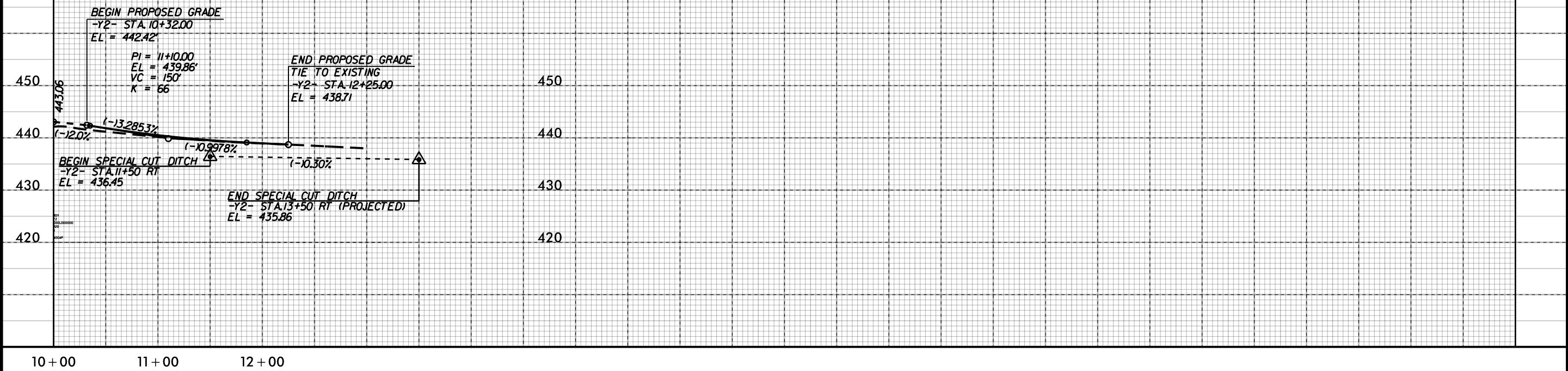
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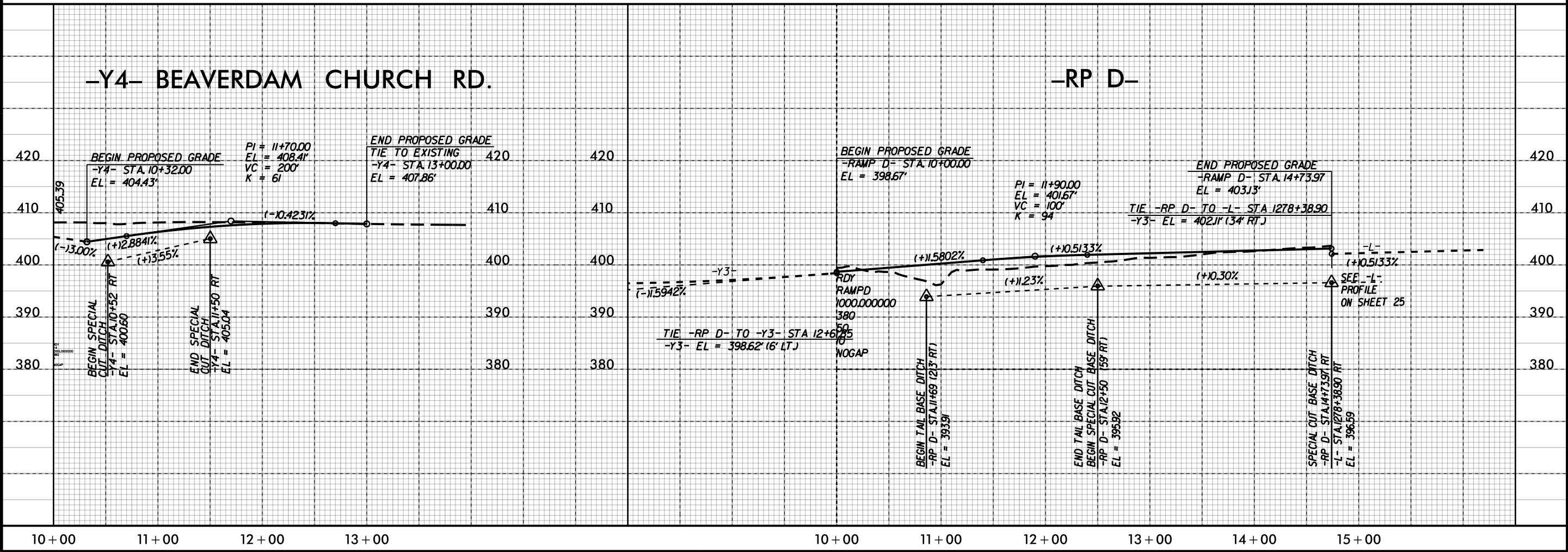
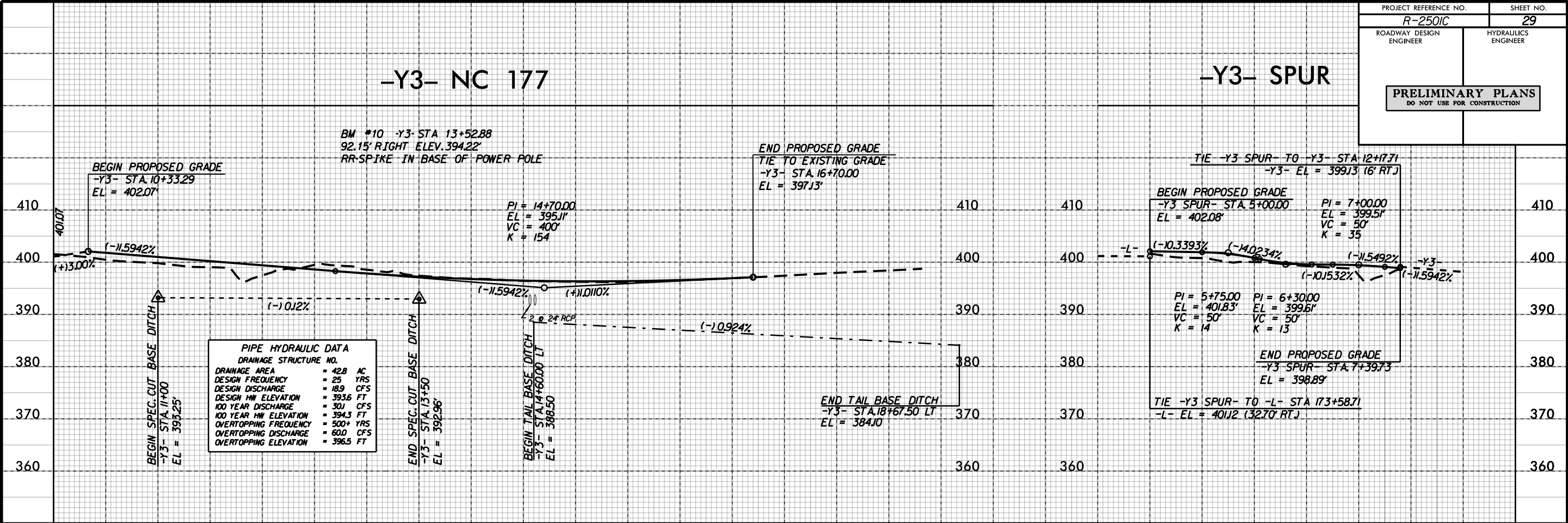
-Y- HAMPTON DR.

-Y1- COGNAC RD.



-Y2- L G DEWITT RD.





- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Wilmington, NC at (910) 796-7215 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Ronnie Smith** at **910-251-4829**.

C. Basis For Determination

This site exhibits wetland criteria as described in the 1987 Corps Wetland Delineation Manual and is adjacent to tributaries the Pee Dee River, which is a traditional navigable water of the United States. The site contains water bodies that exhibit ordinary high water marks as indicated by the absence of vegetation from the stream channel and the presence of wrack lines, sediment deposition and bed and banks. This determination is based on information provided by Environmental Services, Inc and a site visit conducted by Ronnie Smith of the U.S. Army Corps of Engineers on June 7, 2011.

D. Remarks

E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division
Attn: Ronnie Smith, Project Manager,
Wilmington Regulatory Field Office
69 Darlington Ave
Wilmington, North Carolina 28403

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **October 16, 2011**.

****It is not necessary to submit an RFA form to the District Office if you do not object to the determination in this correspondence.****

Corps Regulatory Official: Ronnie Smith

Date: **August 17, 2011**

Expiration Date: **August 17, 2016**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at <http://per2.nwp.usace.army.mil/survey.html> to complete the survey online.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: NCDOT	File Number: SAW-1995-00459	Date: August 17, 2011
Attached is:		See Section below
☐ INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A	
☐ PROFFERED PERMIT (Standard Permit or Letter of permission)	B	
☐ PERMIT DENIAL	C	
☒ APPROVED JURISDICTIONAL DETERMINATION	D	
☐ PRELIMINARY JURISDICTIONAL DETERMINATION	E	

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/CECW/Pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

Mr. Ronnie Smith
USAED-RG
69 Darlington Avenue
Wilmington, NC 28403

If you only have questions regarding the appeal process you may also contact:

Mr. Jason Steele
Administrative Appeals Review Officer
60 Forsyth Street, SW (Room 9M10)
Atlanta, GA 30303-8801
404-562-5137

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

 Signature of appellant or agent.	Date:	Telephone number:
---	-------	-------------------