



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE  
GOVERNOR

EUGENE A. CONTI, JR.  
SECRETARY

October 14, 2011

Wilmington Regulatory Field Office  
US Army Corps of Engineers  
69 Darlington Avenue  
Wilmington, North Carolina 28403

N.C. Dept. of Environment and Natural Resources  
Division of Coastal Management  
400 Commerce Avenue  
Morehead City, NC 28557

ATTN: Mr. Brad Shaver  
NCDOT Coordinator

ATTN: Mr. Stephen Lane  
NCDOT Coordinator

Dear Sirs:

**Subject: Application for a CAMA General Permit, Section 404 Nationwide Permit 12, and Section 401 Water Quality Certification** for utility work due to the proposed widening of SR 1406 (Piney Green Rd) from NC 24 to US 17, in Onslow County. Federal Aid Project No. STP-1406(4), TIP No. U-3810. Debit \$400.00 from WBS 35801.1.1.

Please find enclosed the North Carolina Division of Coastal Management Major Permit Form, Pre-Construction Notification form, and utility plans for the above referenced project. An Environmental Assessment and Finding of No Significant Impact were completed for this project on July 17, 2007 and September 30, 2008 respectively and distributed shortly thereafter. Additional copies are available upon request. The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to widen SR 1406 (Piney Green Rd) from NC 24 to US 17 in Onslow County. This application is for utility work associated with the project and is being requested in advance to allow time for utility relocations to commence prior to project letting. The proposed let date for the project is September 18, 2012 with a review date of July 31, 2012. However, the let date may advance as additional funds become available.

### Regulatory Approvals

Section 404 Permit: Application is hereby made for a USACE Section 404 Nationwide Permit 12 as required for the above-described activities.

Section 401 Water Quality Certification: We anticipate 401 General Certification number 3819 will apply to this project. All general conditions of the Water Quality Certification will be met. NCDOT is providing five copies of this application to the NCDWQ for their approval.

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

TELEPHONE: 919-707-6100  
FAX: 919-212-5785  
**WEBSITE:** [WWW.NCDOT.ORG](http://WWW.NCDOT.ORG)

**LOCATION:**  
1020 BIRCH RIDGE DRIVE  
RALEIGH NC 27610-4328

CAMA: NCDOT requests that the proposed utility work associated with this project be authorized under a Coastal Area Management Act General Permit. The adjacent riparian landowner return receipts are included with this application. The remaining construction activities will be requested via a Coastal Area Management Act Major Development Permit. Authorization to debit the \$400 Permit Application Fee from WBS Element 35801.1.1 is hereby given.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <http://www.ncdot.org/doh/preconstruct/pe/>. Thank you for your assistance with this project. If you have any questions or need additional information, please contact Chris Manley at [cdmanley@ncdot.gov](mailto:cdmanley@ncdot.gov) or (919) 707-6135.

Sincerely,

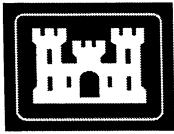
A handwritten signature in black ink, appearing to read "G. J. Thorpe".

fcv

Gregory J. Thorpe, Ph.D., Branch Manager  
Project Development and Environmental Analysis

cc:

NCDOT Permit Application Standard Distribution List



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:	<input checked="" type="checkbox"/> Section 404 Permit <input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 12                      or General Permit (GP) number:	
1c. Has the NWP or GP number been verified by the Corps?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply): <input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input type="checkbox"/> 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: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### 2. Project Information

2a. Name of project:	Widening of Piney Green Road from NC 24 to US 17.
2b. County:	Onslow
2c. Nearest municipality / town:	Jacksonville
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	U-3810

#### 3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6135
3g. Fax no.:	(919) 212-5785
3h. Email address:	cdmanley@ncdot.gov

<b>4. Applicant Information (if different from owner)</b>	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> 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:	
<b>5. Agent/Consultant Information (if applicable)</b>	
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>B. Project Information and Prior Project History</b>	
<b>1. Property Identification</b>	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 34.7750 (DD.DDDDDD) Longitude: - 77.3610 (-DD.DDDDDD)
1c. Property size:	200 acres
<b>2. Surface Waters</b>	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Northeast Creek
2b. Water Quality Classification of nearest receiving water:	C; NSW
2c. River basin:	White Oak
<b>3. Project Description</b>	
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: Commercial and residential zoning is throughout the site.	
3b. List the total estimated acreage of all existing wetlands on the property: 50	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 1,100	
3d. Explain the purpose of the proposed project: To widen Piney Green Road (SR 1406) to four lanes.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves relocation of utilities (water, sewer, electric, telephone, and cable TV) in preparation of widening Piney Green road from a two-lane to a four-lane divided facility on the existing alignment. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
<b>4. Jurisdictional Determinations</b>	
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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Norton Webster	Agency/Consultant Company: Kimley-Horn and Associates Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. March 15, 2006	
<b>5. Project History</b>	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	
<b>6. Future Project Plans</b>	
6a. Is this a phased project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6b. If yes, explain. An Individual Permit application will be submitted for the remaining work associated with this project.	

## 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)
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	fill	riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	excavation	riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
2g. Total wetland impacts					0.02 Permanent 0.02 Temporary

2h. Comments: 1.13 ac. of hand clearing for overhead powerline relocation.

### 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 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						X Perm X 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 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
<b>4f. Total open water impacts</b>				X Permanent X Temporary

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								
<b>5f. Total</b>								

5g. Comments:

5h. Is a dam high hazard permit required?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?			<input type="checkbox"/> Neuse <input type="checkbox"/> Catawba	<input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Randleman	<input type="checkbox"/> Other:
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)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					
6i. Comments:					


<b>D. Impact Justification and Mitigation</b>		
<b>1. Avoidance and Minimization</b>		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. Perpendicular crossings will be used where practicable.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Directional Bore Method will be used where practicable.		
<b>2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State</b>		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain: 0.02 ac. of permanent impacts are minimal.	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
<b>3. Complete if Using a Mitigation Bank</b>		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
<b>4. Complete if Making a Payment to In-lieu Fee Program</b>		
4a. Approval letter from in-lieu fee program is attached.	<input type="checkbox"/> Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
<b>5. Complete if Using a Permittee Responsible Mitigation Plan</b>		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

<b>6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ</b>				
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?				<input type="checkbox"/> Yes <input type="checkbox"/> 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:				

<b>E. Stormwater Management and Diffuse Flow Plan (required by DWQ)</b>	
<b>1. Diffuse Flow Plan</b>	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments: If required from 1a, see attached buffer permit drawings.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>2. Stormwater Management Plan</b>	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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:	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input type="checkbox"/> DWQ 401 Unit
<b>3. Certified Local Government Stormwater Review</b>	
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):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>4. DWQ Stormwater Program Review</b>	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input checked="" type="checkbox"/> Coastal counties <input type="checkbox"/> HWQ <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No The stormwater management plan will be submitted with the IP application.
<b>5. DWQ 401 Unit Stormwater Review</b>	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

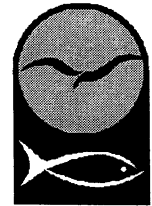
<b>F. Supplementary Information</b>	
<b>1. Environmental Documentation (DWQ Requirement)</b>	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If you answered "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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>2. Violations (DWQ Requirement)</b>	
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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
<b>3. Cumulative Impacts (DWQ Requirement)</b>	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	
<b>4. Sewage Disposal (DWQ Requirement)</b>	
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	



<b>5. Endangered Species and Designated Critical Habitat (Corps Requirement)</b>		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input checked="" type="checkbox"/> Raleigh <input type="checkbox"/> Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? Field Surveys, USFWS website, and NHP		
<b>6. Essential Fish Habitat (Corps Requirement)</b>		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS Water Body Index		
<b>7. Historic or Prehistoric Cultural Resources (Corps Requirement)</b>		
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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
<b>8. Flood Zone Designation (Corps Requirement)</b>		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> 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		
<u>Dr. Gregory J. Thorpe, Ph D</u> Applicant/Agent's Printed Name	 _____ Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	<u>10-17-11</u> Date

# APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

## 1. Primary Applicant/ Landowner Information

Business Name North Carolina Department Of Transportation		Project Name (if applicable) U-3810	
Applicant 1: First Name Gregory	MI	Last Name Thorpe	
Applicant 2: First Name	MI	Last Name	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>			
Mailing Address 1598 Mail Service Center		PO Box	City Raleigh
		State NC	
ZIP 27699 1598	Country USA	Phone No. 919 - 707 - 6135 ext.	FAX No. 919 - 212 - 5785
Street Address (if different from above) 1020 Birch Ridge Drive		City Raleigh	State NC
		ZIP 27610- 4328	
Email cdmanley@ncdot.gov			

## 2. Agent/Contractor Information

Business Name			
Agent/ Contractor 1: First Name	MI	Last Name	
Agent/ Contractor 2: First Name	MI	Last Name	
Mailing Address		PO Box	City
		State	
ZIP		Phone No. 1 - - ext.	Phone No. 2 - - ext.
FAX No.		Contractor #	
Street Address (if different from above)		City	State
		ZIP -	
Email			

&lt;Form continues on back&gt;

<b>3. Project Location</b>				
County (can be multiple) Onslow		Street Address SR 1406 (Piney Green Rd.) from US 17 to NC 24		State Rd. # SR 1406
Subdivision Name N/A		City Jacksonville	State NC	Zip -
Phone No. - - ext.		Lot No.(s) (if many, attach additional page with list) , , , ,		
a. In which NC river basin is the project located? White Oak		b. Name of body of water nearest to proposed project Northeast Creek, Poplar Creek, and Little Northeast Creek		
c. Is the water body identified in (b) above, natural or manmade? <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Manmade <input type="checkbox"/> Unknown		d. Name the closest major water body to the proposed project site. Northeast Creek		
e. Is proposed work within city limits or planning jurisdiction? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		f. If applicable, list the planning jurisdiction or city limit the proposed work falls within.		

<b>4. Site Description</b>	
a. Total length of shoreline on the tract (ft.) 2,400 (both sides combined of each creek)	b. Size of entire tract (sq.ft.) 4,526,900
c. Size of individual lot(s) N/A, (If many lot sizes, please attach additional page with a list)	d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 2.5' road bed <input type="checkbox"/> NHW or <input checked="" type="checkbox"/> NWL
e. Vegetation on tract Laurel Oak, Red Maple, Black Gum, Loblolly Pine, Sweetgum, Grasses, and early successional weeds	
f. Man-made features and uses now on tract Bridges and Roadways	
g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Residential and Commercial	
h. How does local government zone the tract? Right of Way	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
j. Is the proposed activity part of an urban waterfront redevelopment proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA  If yes, by whom? See attachment	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	

&lt;Form continues on next page&gt;

m. (i) Are there wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(ii) Are there coastal wetlands on the site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
n. Describe existing wastewater treatment facilities. N/A	
o. Describe existing drinking water supply source. N/A	
p. Describe existing storm water management or treatment systems. N/A	

**5. Activities and Impacts**

a. Will the project be for commercial, public, or private use?	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Public/Government <input type="checkbox"/> Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. To maintain public utilities	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. See attached utility narrative	
d. List all development activities you propose. See attached utility narrative	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Both
f. What is the approximate total disturbed land area resulting from the proposed project?	1.77 <input type="checkbox"/> Sq.Ft or <input checked="" type="checkbox"/> Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
h. Describe location and type of existing and proposed discharges to waters of the state. N/A	
i. Will wastewater or stormwater be discharged into a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
If yes, will this discharged water be of the same salinity as the receiving water?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
j. Is there any mitigation proposed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
If yes, attach a mitigation proposal.	

&lt;Form continues on back&gt;

**6. Additional Information**

In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.

- a. A project narrative.
- b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.
- c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.
- d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
- e. The appropriate application fee. Check or money order made payable to DENR.
- f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management.
- |         |                   |           |
|---------|-------------------|-----------|
| Name    | See attached List | Phone No. |
| Address |                   |           |
| Name    |                   | Phone No. |
| Address |                   |           |
| Name    |                   | Phone No. |
| Address |                   |           |
- g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.
- h. Signed consultant or agent authorization form, if applicable.
- i. Wetland delineation, if necessary.
- j. A signed AEC hazard notice for projects in oceanfront and inlet areas. *(Must be signed by property owner)*
- k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

**7. Certification and Permission to Enter on Land**

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.

I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date 10-17-11 Print Name Gregory J. Thayer, PhD.  
Signature E. J. Lueck for

Please indicate application attachments pertaining to your proposed project.

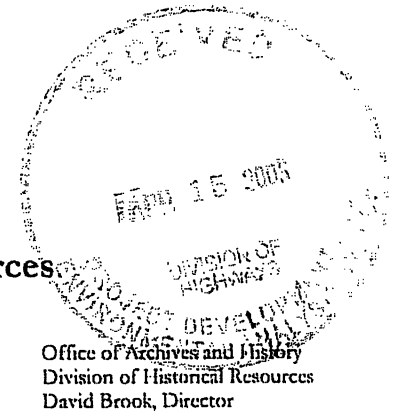
- ☐ DCM MP-2 Excavation and Fill Information ☐ DCM MP-5 Bridges and Culverts
- ☐ DCM MP-3 Upland Development
- ☐ DCM MP-4 Structures Information



North Carolina Department of Cultural Resources  
State Historic Preservation Office

Peter B. Sandbeck, Administrator

Michael F. Easley, Governor  
Lisbeth C. Evans, Secretary  
Jeffrey J. Crow, Deputy Secretary



Office of Archives and History  
Division of Historical Resources  
David Brook, Director

April 12, 2005

MEMORANDUM

TO: Gregory Thorpe, Ph.D., Director  
Project Development and Environmental Analysis Branch  
NCDOT Division of Highways

FROM: Peter B. Sandbeck *PBS for PBS*

SUBJECT: Widening From NC 24 to US 17, Jacksonville, U-3810, Onslow County, CH 05-0380

We have received notification from the State Clearinghouse and your letter of February 17, 2005, concerning the above project.

We have conducted a search of our files and are aware of no structures of historical or architectural importance located within the planning area. However, since this area has not been surveyed in eighteen years, there may be structures of which we are unaware located within the planning area.

Therefore, we request that an NC Department of Transportation architectural historian survey the Area of Potential Effect (APE) for historic/architectural resources and report the findings to us.

There are no known archaeological sites within the proposed project area. Based on our knowledge of the area, it is unlikely that any archaeological resources that may be eligible for inclusion in the National Register of Historic Places will be affected by the project. We, therefore, recommend that no archaeological investigation be conducted in connection with this project.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919/733-4763. In all future communication concerning this project, please cite the above referenced tracking number.

cc: State Clearinghouse  
Mary Pope Furr, NCDOT  
Matt Wilkerson, NCDOT

**CONCURRENCE FORM FOR PROPERTIES NOT ELIGIBLE FOR  
THE NATIONAL REGISTER OF HISTORIC PLACES**

Project Description: Improvements to SR 1406 (Piney Grove Road) from NC 24 to US 17

On May 17, 2005 representatives of the

- ☒ North Carolina Department of Transportation (NCDOT)  
☒ Federal Highway Administration (FHWA)  
☒ North Carolina State Historic Preservation Office (HPO)  
☐ Other

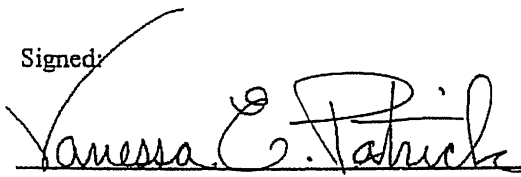
Reviewed the subject project at

- ☐ Scoping meeting  
☒ Historic architectural resources photograph review session/consultation  
☐ Other

All parties present agreed

- ☐ There are no properties over fifty years old within the project's area of potential effects.
- ☒ There are no properties less than fifty years old which are considered to meet Criteria Consideration G within the project's area of potential effects.
- ☒ There are properties over fifty years old within the project's Area of Potential Effects (APE), but based on the historical information available and the photographs of each property, the property identified as (List Attached) is considered not eligible for the National Register and no further evaluation of it is necessary. ~~1~~ - 79
- ☒ There are no National Register-listed or Study Listed properties within the project's area of potential effects
- ☒ All properties greater than 50 years of age located in the APE have been considered at this consultation, and based upon the above concurrence, all compliance for historic architecture with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.
- ☐ There are no historic properties affected by this project. (Attach any notes or documents as needed)

Signed:

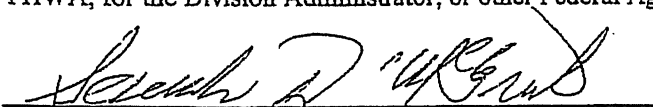
  
Representative, NCDOT

5-17-05

Date

FHWA, for the Division Administrator, or other Federal Agency

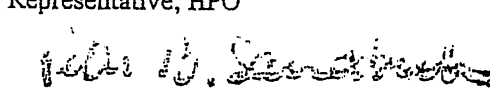
Date

  
Representative, HPO

(SDM [unclear])

5/17/05

Date

  
State Historic Preservation Officer

5/17/05

Date

## **U-3810 NEU Narrative**

### **Utility Owners:**

- **Power:** Jones-Onslow EMC – (contact: Tom Pritchard 910-353-1940)
- **Power:** Progress Energy – (contact: Warren Chadwick 910-520-9541)
- **Telephone:** Century Link (contact: Jeff Shepard 910-577-9357)
- **Water:** ONWASA (contact: Rod Butler 910-455-0722)
- **Sewer:** ONWASA (contact: Rod Butler 910-455-0722)
- **Cable TV:** Time Warner Cable (contact: Mark Bass 910-219-6615)
- **Onslow County School:** (contact: David Bullock 910-455-2211)
- **City of Jacksonville:** (contact: Wally Hansen 910-938-5330)

### **General Utility Relocation:**

All utility lines inside the project limits will be adjusted as necessary or relocated away from construction. The water lines, power, telephone and CATV will be relocated prior to the letting. The sewer line construction will be done in the NCDOT Roadway Contract.

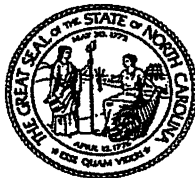
### **Existing Utilities:**

- **Power:** existing power lines run overhead on poles along both sides of Piney Green Road from US 17 to NC 24.
- **Telephone:** existing Telephone lines (fiber optic and copper cables) are underground along both sides of Piney Green Road from US 17 to NC 24.
- **Water:** existing 12” and 18” water lines runs along Piney Green Road from US 17 to Old 30 Road, 2-12” water lines runs along Piney Green Road from Old 30 Road to Barbara Avenue, and 1-8” water line from Barbara Avenue to NC 24. The water lines that service the side streets off Piney Green Road range from 6” to 12”.
- **Sewer:** existing 8” gravity sewer lines runs intermediately along the south side of Piney Green Road from US 17 to Courtland Road, a 4” force main runs along the south side of Piney Green Road from Country Club Road to Halltown Road and a 4” force main crosses Piney Green Road at White Oak High School. The 4” force main servicing White Oak High School will be relocated to the new sewer lines being designed by City of Jacksonville.
- **Cable TV:** existing cable TV is aerial and underground along Piney Green Road from US 17 to NC 24.



**Proposed Utility Relocation:**

- **Power:** Progress Energy and Jones-Onslow EMC will abandon all existing facilities in Piney Green Road and install a new power pole line on the north side of Piney Green Road from US 17 to NC 24. Service drops will be installed along the side streets.
- **Telephone:** Century Link will abandon all existing facilities and attach new telephone lines to the proposed power poles on the north side of Piney Green Road from US 17 to NC 24.
- **Cable TV:** Time Warner will abandon all existing facilities and attach new CATV lines to the proposed power poles on the north side of Piney Green Road from US 17 to NC 24.
- **Water:** ONWASA will abandon all existing water lines and install a new 24" water line on the north side of Piney Green Road from US 17 to NC 24. The existing water lines in the side streets will be connected to the proposed 24" water line.
- **Sewer:** ONWASA existing gravity sewer lines will remain in place in place, the existing 4" force main from Country Club to Halltown Road will be abandon and a new line will be installed outside the limits of the project. City of Jacksonville is designing new force mains with pump station and gravity sewer lines to be installed along the south side of Piney Green Road from Regalwood Drive to Y-44-.



North Carolina Department of Cultural Resources  
State Historic Preservation Office

Peter B. Sandbeck, Administrator

Michael F. Easley, Governor  
Lisbeth C. Evans, Secretary  
Jeffrey J. Crow, Deputy Secretary

Office of Archives and History  
Division of Historical Resources  
David Brook, Director

April 12, 2005

MEMORANDUM

TO: Gregory Thorpe, Ph.D., Director  
Project Development and Environmental Analysis Branch  
NCDOT Division of Highways

FROM: Peter B. Sandbeck *PBS for PBS*

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Matt Wilkerson, NCDOT

**CONCURRENCE FORM FOR PROPERTIES NOT ELIGIBLE FOR  
THE NATIONAL REGISTER OF HISTORIC PLACES**

*Project Description:* Improvements to SR 1406 (Piney Grove Road) from NC 24 to US 17

On May 17, 2005 representatives of the

- X North Carolina Department of Transportation (NCDOT)  
X Federal Highway Administration (FHWA)  
X North Carolina State Historic Preservation Office (HPO)  
☐ Other

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All parties present agreed

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- ☐ There are no historic properties affected by this project. (Attach any notes or documents as needed)

Signed:

*Vanessa C. Patrick*

Representative, NCDOT

*5-17-05*

Date

FHWA, for the Division Administrator, or other Federal Agency

Date

*Seamus D. [Signature]*

Representative, HPO

(SDM [Signature])

*5/17/05*

Date

*John D. [Signature]*

State Historic Preservation Officer

*5/17/05*

Date

## **U-3810 NEU Narrative**

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### **Proposed Utility Relocation:**

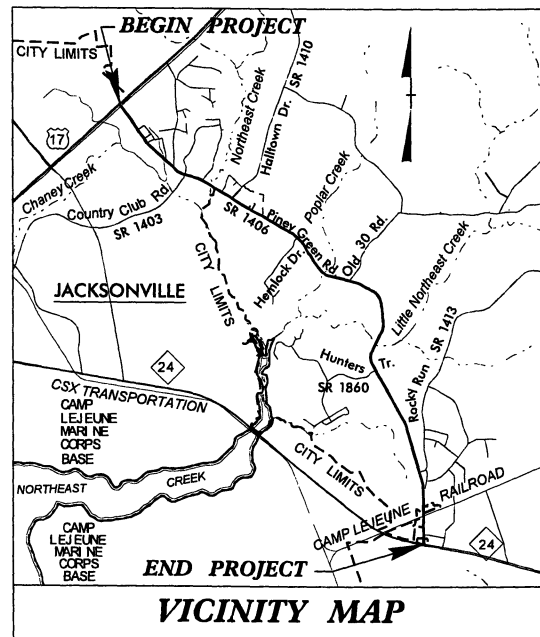
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22-JUN-2011 09:45  
R:\Utilities\Rdy\_Ut\Proj\neu plan sheets\3810\_rdy\_NEU-1.sh.dgn  
\$\$\$\$\$USERNAME\$\$\$\$\$

***TIP PROJECT: U-3810***

## **CONTRACT:**

See Sheet 1-A For Index of Sheets

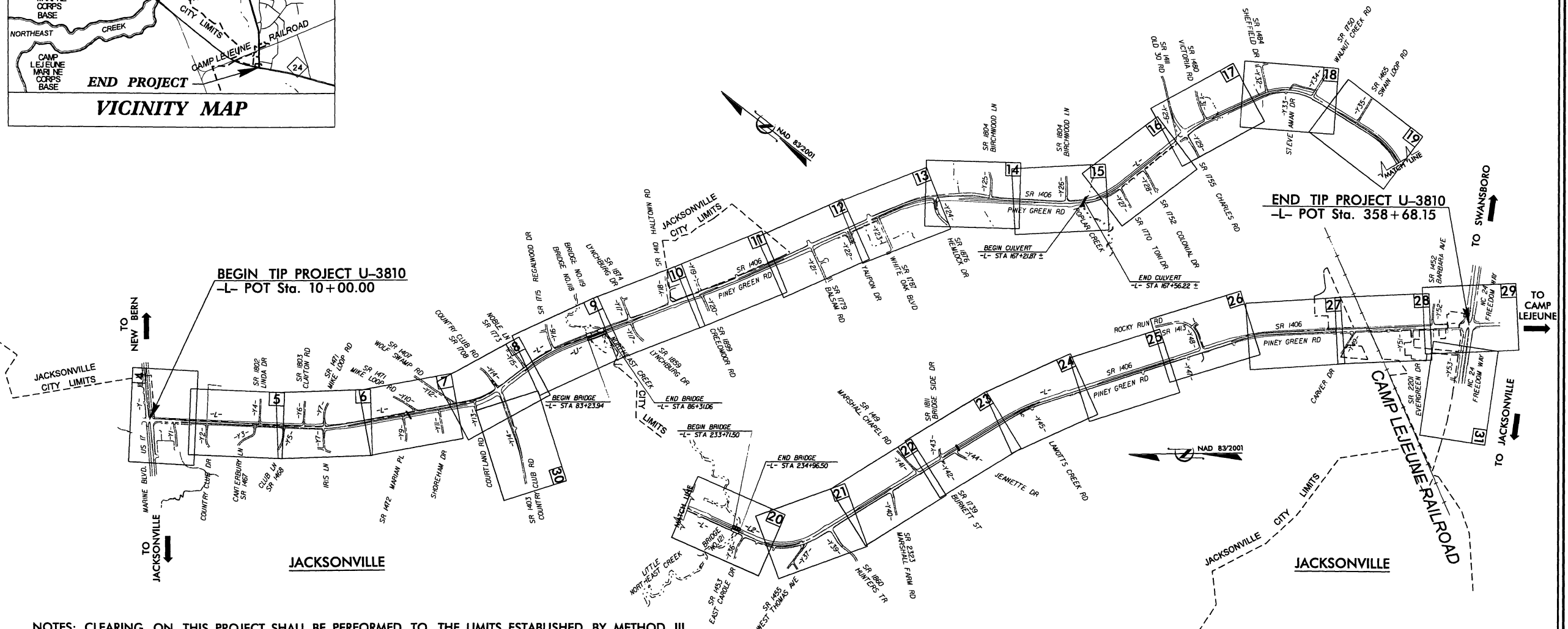


# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

**ON SLOW COUNTY**

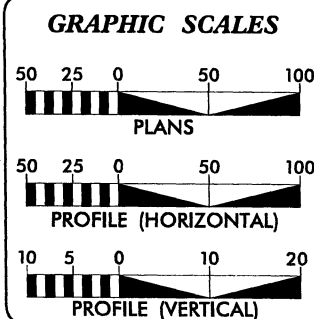
**LOCATION: SR 1406 (PINEY GREEN ROAD) FROM US 17  
(MARINE BOULEVARD) TO NC 24 (FREEDOM WAY)**

**TYPE OF WORK: NEU UTILITY RELOCATIONS (06-16-11)**

[illegible]

NOTES: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.  
PORTIONS OF THIS PROJECT ARE WITHIN THE MUNICIPAL BOUNDRIES OF JACKSONVILLE.

**PRELIMINARY PLANS**  
**DO NOT USE FOR CONSTRUCTION**



## INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
<i>1</i>	<i>TITLE SHEET</i>
<i>4 THRU 37</i>	<i>WATER AND POWER RELOCATION PLAN SHEETS</i>
<i>9 THRU 26</i>	<i>NEW SEWER LINE INSTALLATIONS</i>

### UTILITY OWNERS ON PROJECT

1. **ONWASA (Water Line Relocation)**
2. **Progress Energy (Power Line Relocation)**
2. **Jones Onslow EMC (Power Line Relocation)**
3. **Century Link (Telephone Line Relocation)**
4. **Time Warner CATV (Cable TV Relocation)**
5. **City of Jacksonville (New Sewer Line Installation)**



PREPARED IN THE OFFICE OF:  
DIVISION OF HIGHWAYS  
UTILITIES ENGINEERING  
SECTION

1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
PHONE (919) 250-4128  
FAX (919) 250-4119

<u>Roger Worthington, P.E.</u>	UTILITIES SECTION ENGINEER
<u>Corey Bousquet, P.E.</u>	UTILITIES SQUAD LEADER PROJECT ENGINEER
<u>Eric Haugaard</u>	UTILITIES PROJECT DESIGNER

DB 1231 PG 462  
1  
(NO CLAIM)

20

DB 402 PG 119  
MB 043 PG 135



-YI- POT Sta. II+09.24

PROP. 24" WL

SEE SHEET 2-H FOR DITCH DETAILS  
SEE SHEET 32 FOR -L- PROFILE  
SEE SHEET 48 FOR -Y- & -YI- PROFILES

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

INSFT

Utility Permit Drawing  
Sheet 2 of 43













PROP. 6" WL

/PROP. 24" WL

PROP. 6" WL

PROP. 8" WL

PROP. 6" WL

 = PROP. PAINT STRIPING

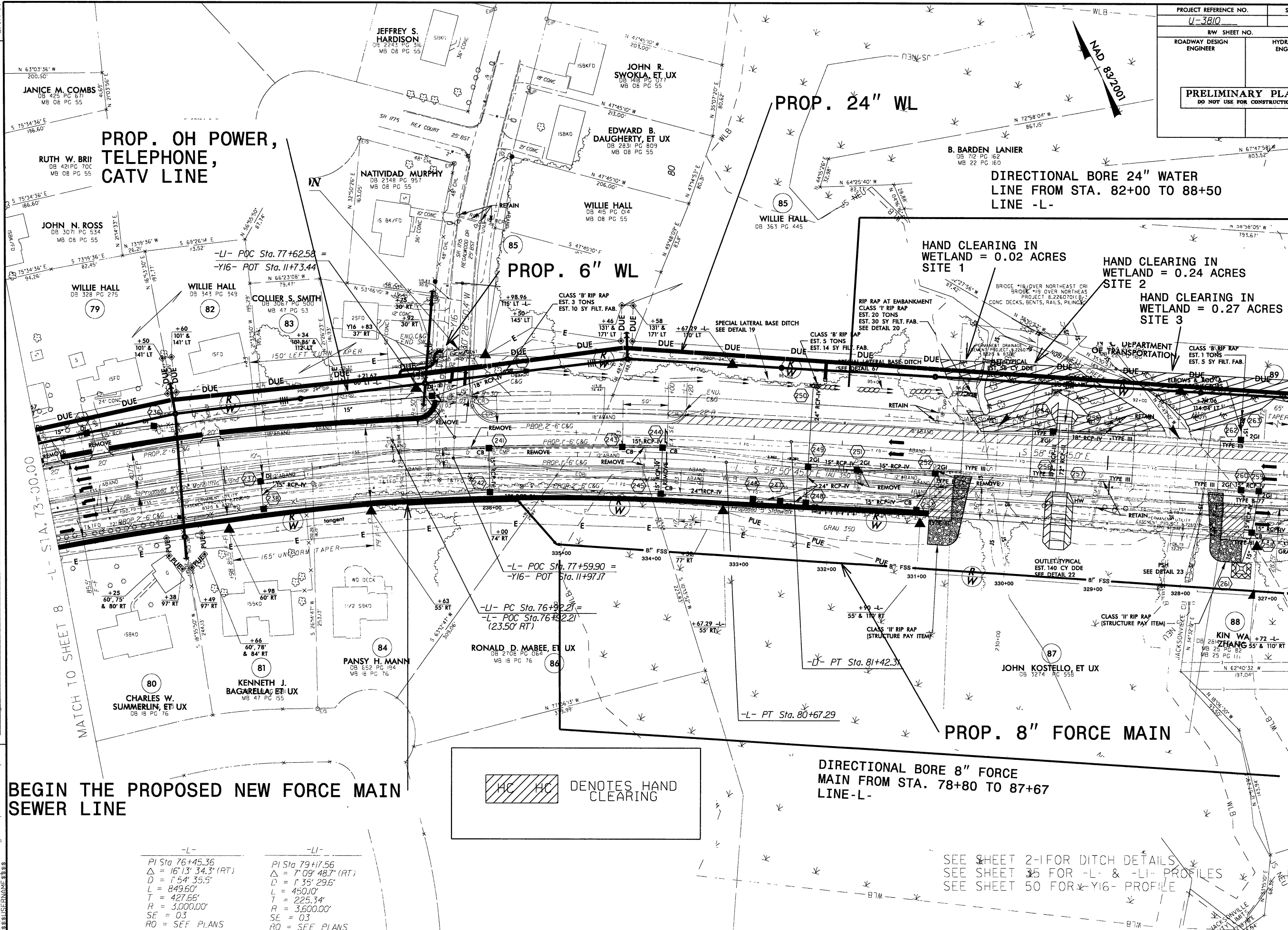
-L-

---

PI Sta 76+45.36  
 $\Delta = 16^{\circ}13'34.3''$  (RT)  
 $D = 154^{\circ}35.5''$   
 $L = 849.60'$   
 $T = 427.66'$   
 $R = 3,000.00'$   
 $SE = 03$   
 $RO = SEE PLANS$

PI Sta 15+69.58  
 $\Delta = 18^\circ 59' 25.3''$  (RT)  
 $D = 6^\circ 01' 52.1''$   
 $L = 314.87'$   
 $T = 158.89'$   
 $R = 950.00'$   
 SE = SEE PLANS

Utility Permit Drawing  
Sheet 7 of 43



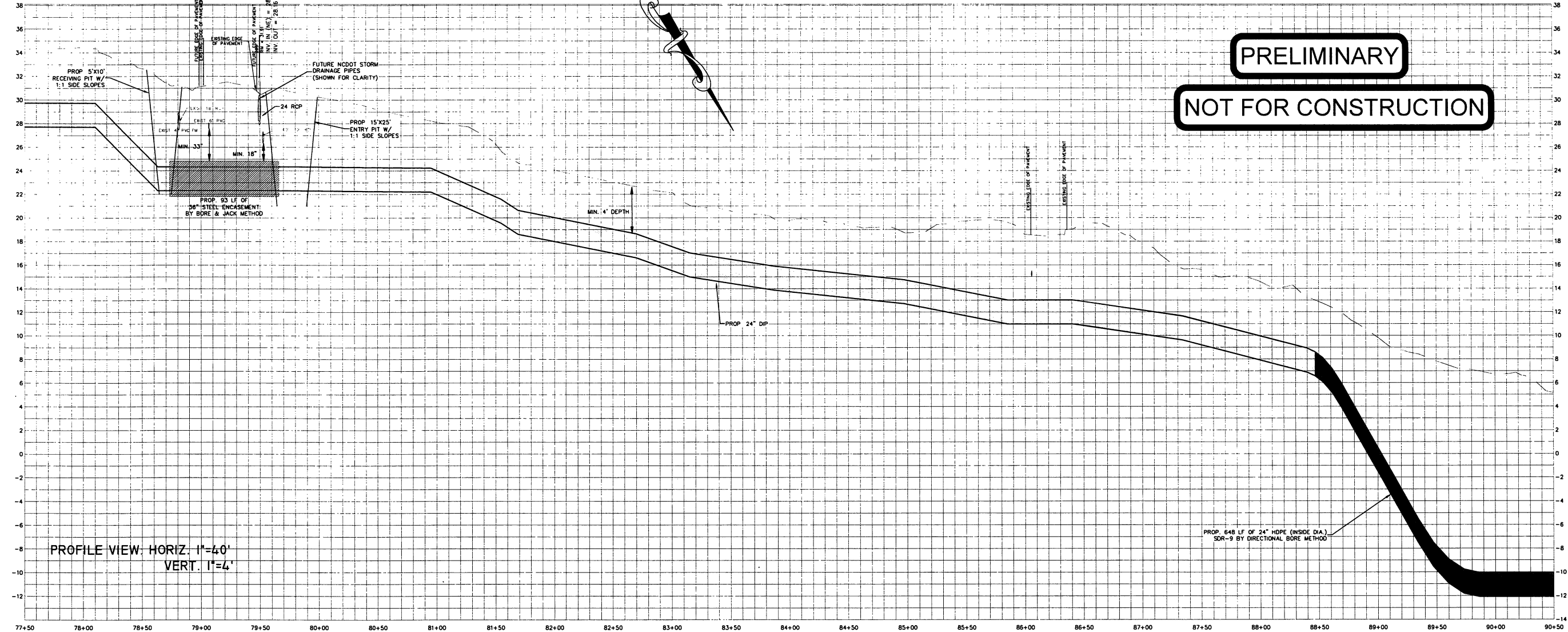
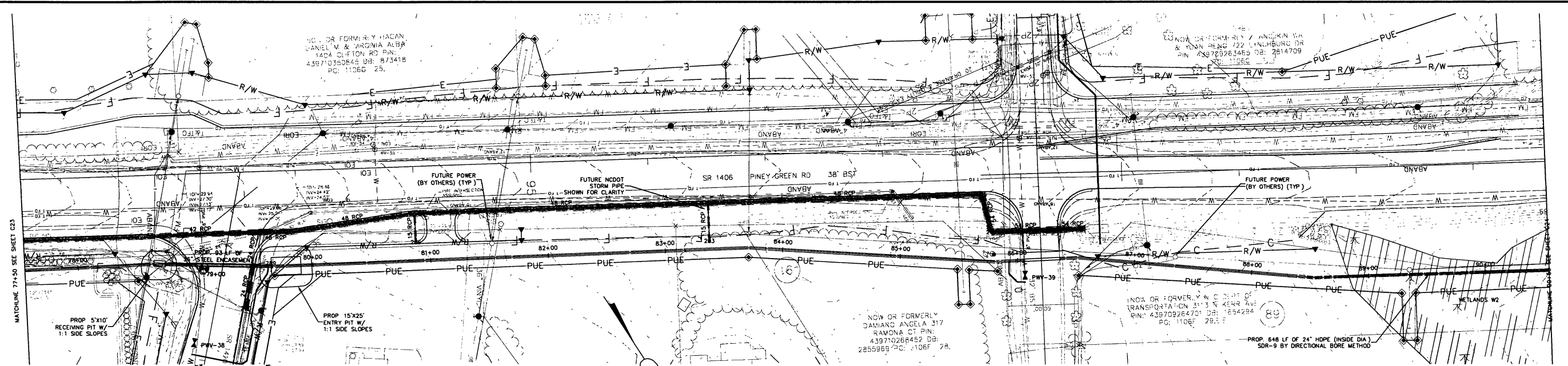
BEGIN THE PROPOSED NEW FORCE MAIN  
SEWER LINE

HC HC DENOTES HAND  
CLEARING

SEE SHEET 2-1 FOR DITCH DETAILS  
SEE SHEET 35 FOR -L- & -LI- PROFILES  
SEE SHEET 50 FOR -YI6- PROFILE

-L-	-LI-
PI Sta 76+45.36	PI Sta 79+17.56
$\Delta = 16' 13'' 34.3''$ (RT)	$\Delta = 7' 09'' 48.7''$ (RT)
$D = 1' 54'' 35.5''$	$D = 1' 35'' 29.6''$
$L = 849.60'$	$L = 450.10'$
$T = 427.66'$	$T = 225.34'$
$R = 3,000.00'$	$R = 3,600.00'$
$SE = 03$	$SE = 03$
$RO = SEE PLANS$	$RO = SEE PLANS$

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES.



**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER MWF	DRAWING SCALE 1"=40'
DRAWN BY AMH	PROJECT DATE 20090228.00 RA
APPROVED BY MWF	PROJECT NUMBER 20090228.00 RA
FILE NAME	PROJECT DATE 9/3/2010



720 CORPORATE CENTER DRIVE  
RALEIGH, NC 27607  
(919) 782-0495  
Office Locations: North Carolina  
South Carolina  
Georgia  
NC LICENSE NO. F-0374

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

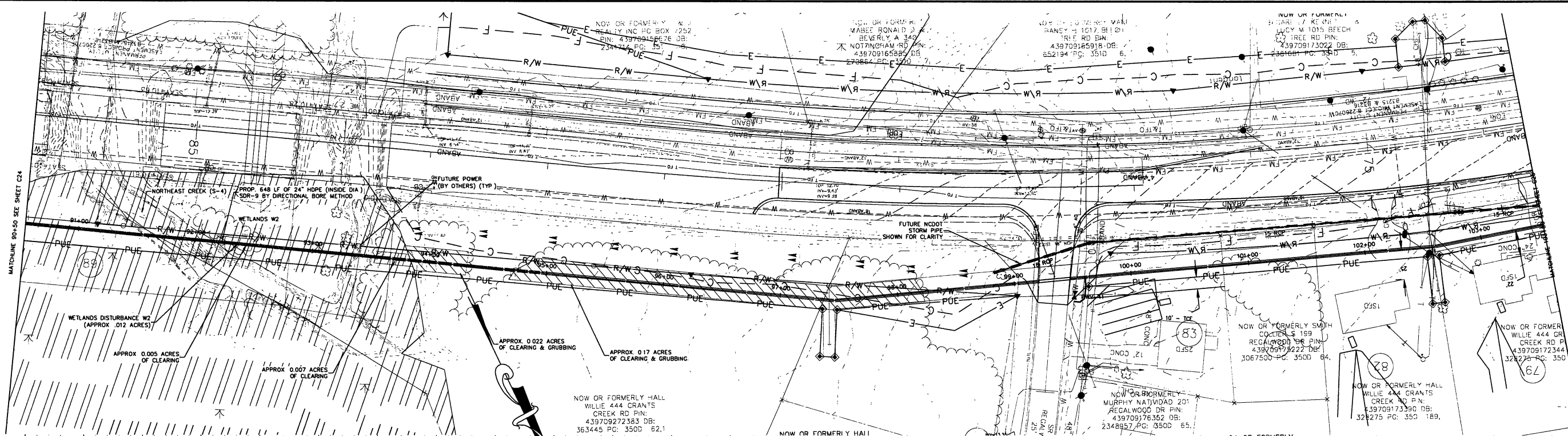
PINEY GREEN UTILITY RELOCATION  
FOR THE  
ONSLW WATER AND SEWER AUTHORITY  
ONSLW COUNTY, NC

ALIGNMENT B  
77+50.00 TO 90+50.00

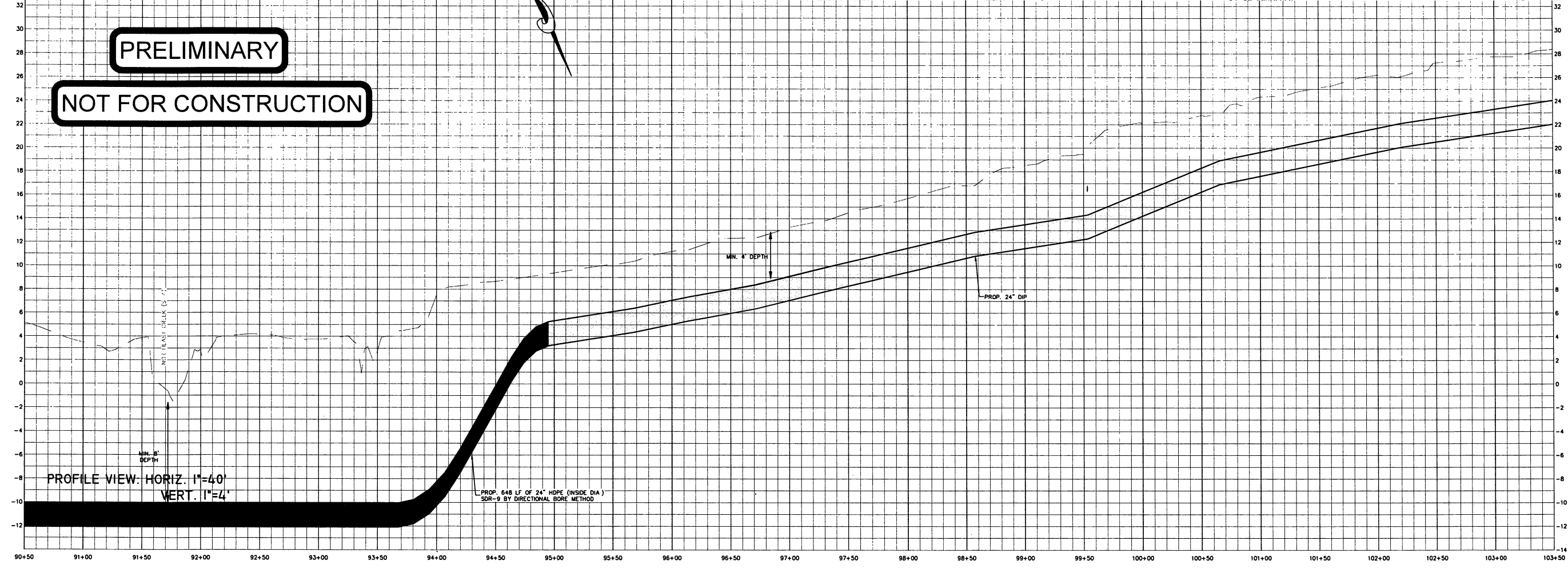
C23  
36



CONSTRUCTION OF THIS DRAWING IS BASED ON THE INFORMATION PROVIDED BY THE CLIENT. THE ENGINEER HAS CONDUCTED A VISUAL INSPECTION OF THE SITE AND HAS FOUND NO EVIDENCE OF ANY OBSTACLES OR HAZARDS THAT WOULD AFFECT THE CONSTRUCTION OF THE PROJECT. THE ENGINEER HAS ALSO CONDUCTED A VISUAL INSPECTION OF THE EXISTING UTILITY RECORDS AND HAS FOUND NO EVIDENCE OF ANY OBSTACLES OR HAZARDS THAT WOULD AFFECT THE CONSTRUCTION OF THE PROJECT.



**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



REV. NO.	DESCRIPTION	DATE

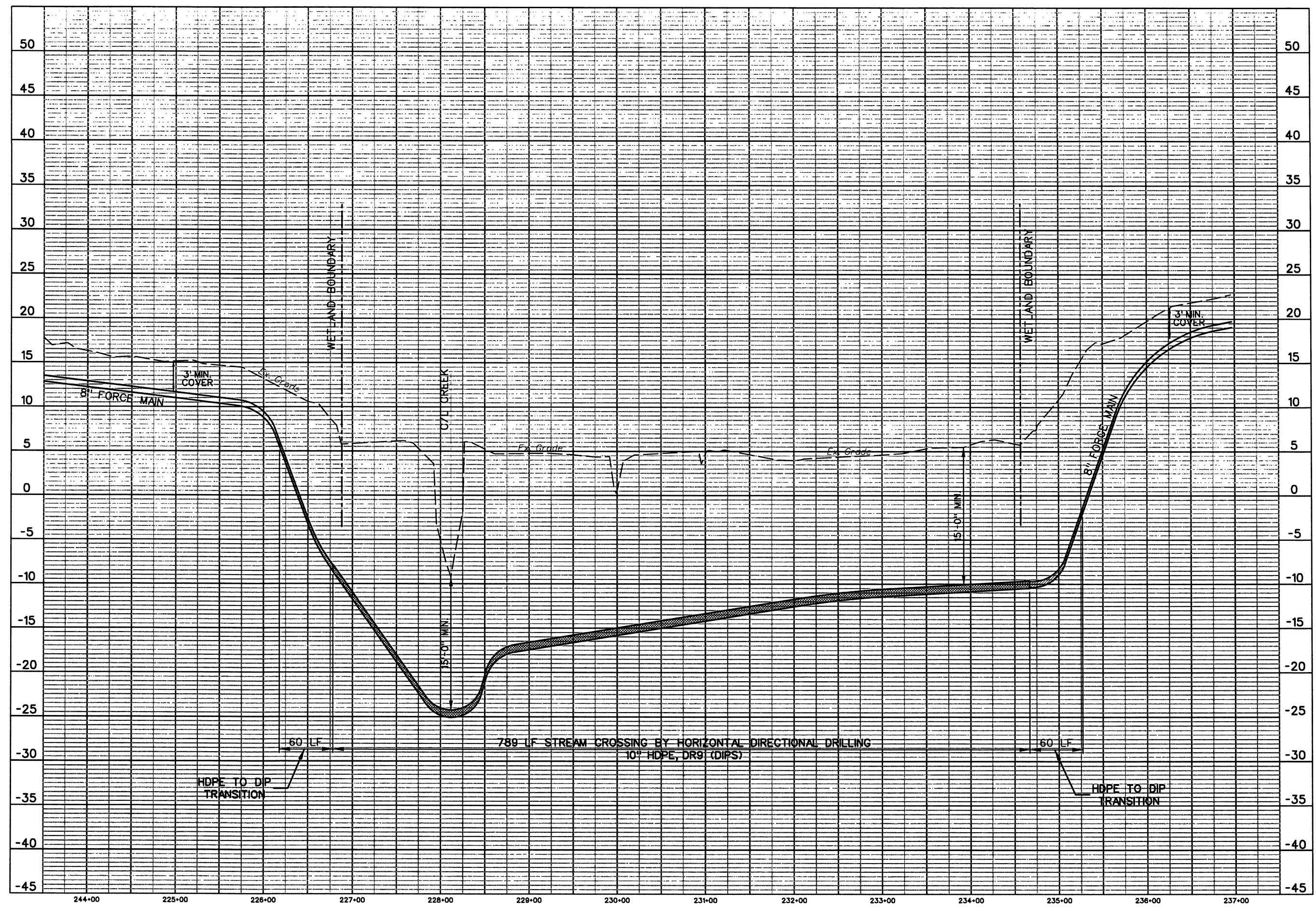
PROJECT MANAGER MWF	DRAWING SCALE 1"=40'	720 CORPORATE CENTER DRIVE RALEIGH, NC 27607 (919) 782-0495	RELEASED FOR DATE
DESIGNED BY AMH	PROJECT DATE	Office Locations: North Carolina South Carolina Georgia	APPROVALS
APPROVED BY MWF	PROJECT NUMBER 20090228.00.RA	NC LICENSE NO. F-0374	BIDDING
FILE NAME	PLT DATE 9/3/2010		CONSTRUCTION
			RECORD DWG.

PINEY GREEN UTILITY RELOCATION  
FOR THE  
ONSLOW WATER AND SEWER AUTHORITY  
ONSLOW COUNTY, NC

ALIGNMENT B  
90+50.00 TO 103+50.00

C24  
36

Sheet 1 Trench  
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Keith  
Print2PDFx.plt  
100.0000' / IN



REVISIONS	

75

YEARS

THE WOOTEN COMPANY

ENGINEERING | PLANNING | ARCHITECTURE

120 North Boylan Avenue Raleigh, NC 27605-4273

919.228.0337 fax 919.834.3589

Licenses: Professional Engineer License Number: F-1015

ONCLOW COUNTY

ONCLOW WATER & SEWER AUTHORITY

NORTH CAROLINA

PINEY GREEN SEWER - PHASE 3

TRENCHLESS INSTALLATION NO. 1

DESIGNED BY: JEO

DRAWN BY: TK

CHECKED BY: MDS

PROJECT NO.: 2896-N

DATE: MAY 2011

SCALE: HOR. 1" = 100'  
VER. 1" = 10'

PRELIMINARY

DO NOT USE FOR CONSTRUCTION

SHEET NO.

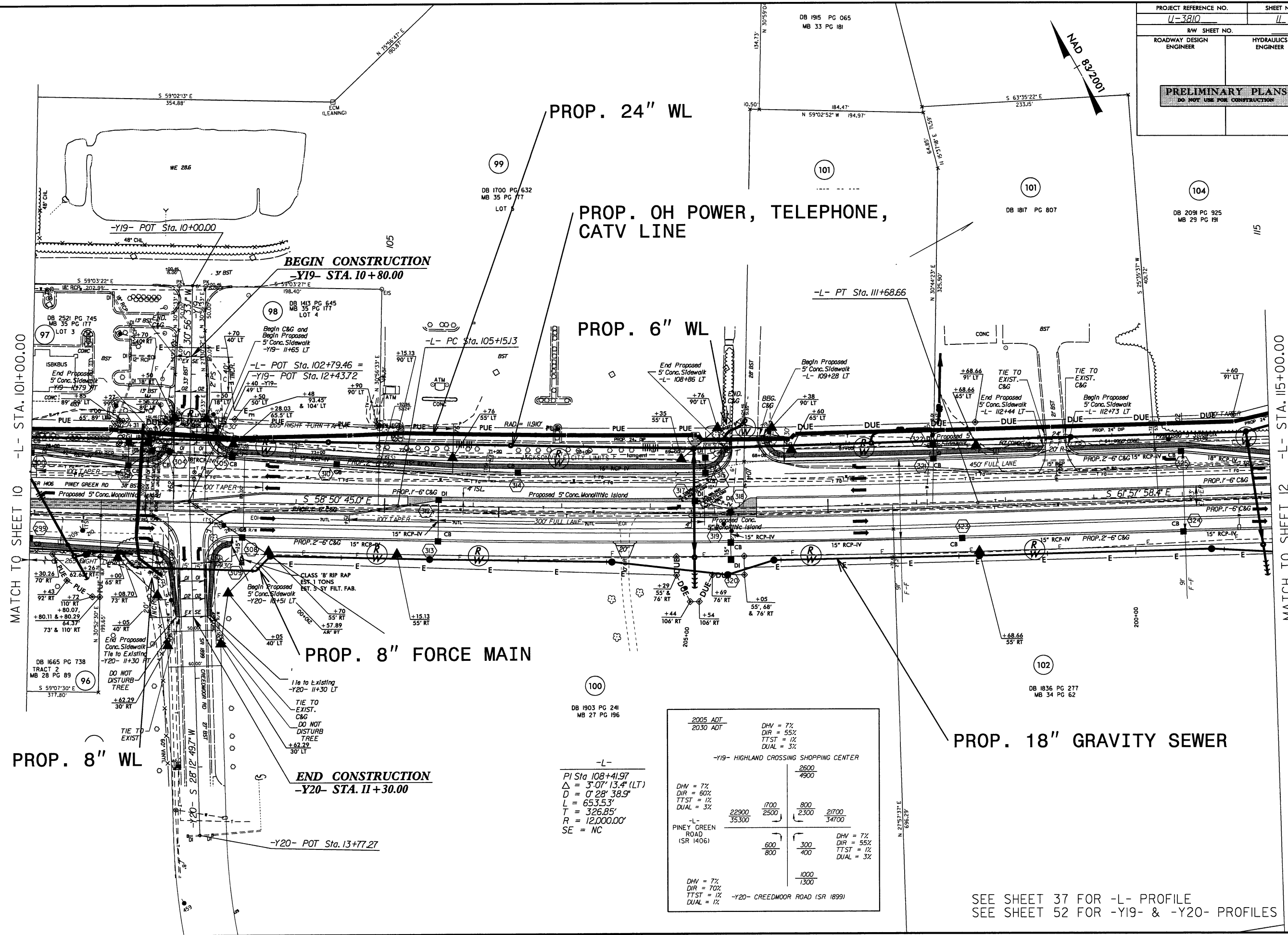
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8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
U-3810		11	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION			



MATCH TO SHEET 10 -L- STA. 10+00.00

MATCH TO SHEET 12 -L- STA. 115+00.00

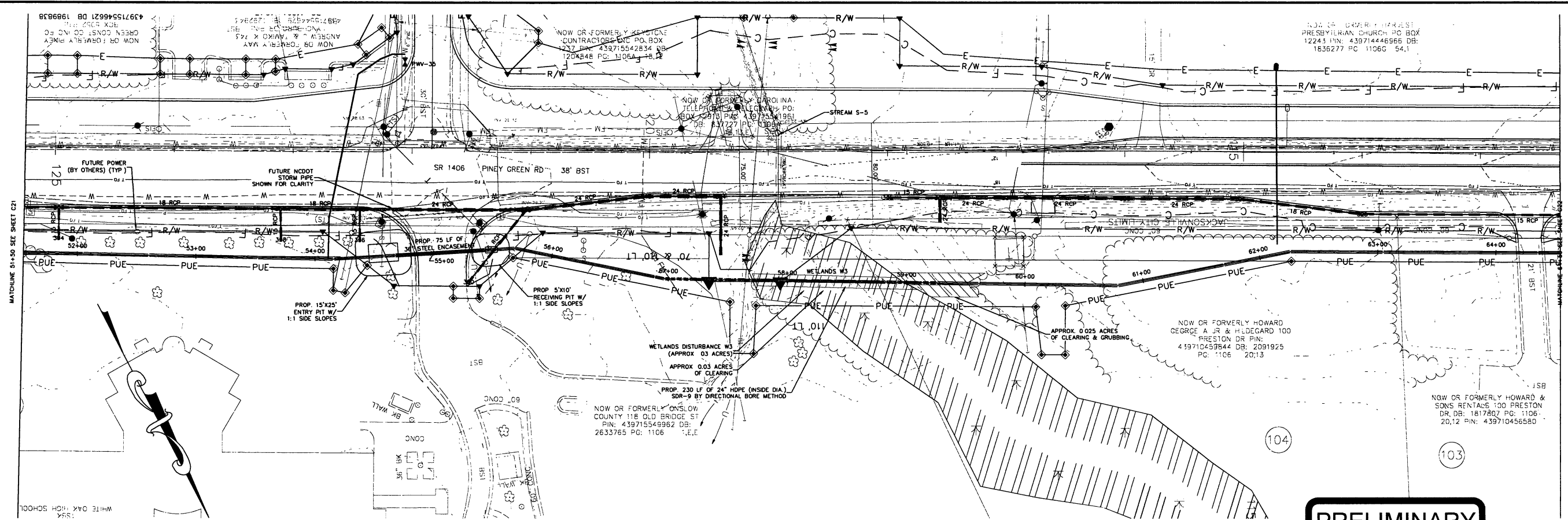
REVISIONS  
1. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. PCS  
2. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
3. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
4. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
5. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
6. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
7. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
8. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
9. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN  
10. REV. 10/10/01 - INCORPORATED STA. AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. NBN

<u>2005 ADT</u>		DHW = 7%	
<u>2030 ADT</u>		DIR = 55%	
		TTST = 1%	
		DUAL = 3%	
-Y19- HIGHLAND CROSSING SHOPPING CENTER			
		<u>2600</u>	
		4900	
DHW = 7%		<u>1700</u>	<u>800</u>
DIR = 60%		2500	2300
TTST = 1%			21700
DUAL = 3%			34700
-L- PINEY GREEN ROAD (SR 1406)			
		<u>600</u>	<u>300</u>
		800	400
		<u>1000</u>	
		1300	
DHW = 7%			DHW = 7%
DIR = 70%			DIR = 55%
TTST = 1%			TTST = 1%
DUAL = 1%			DUAL = 3%
-Y20- CREEDMOOR ROAD (SR 1899)			

SEE SHEET 37 FOR -L- PROFILE  
SEE SHEET 52 FOR -Y19- & -Y20- PROFILES

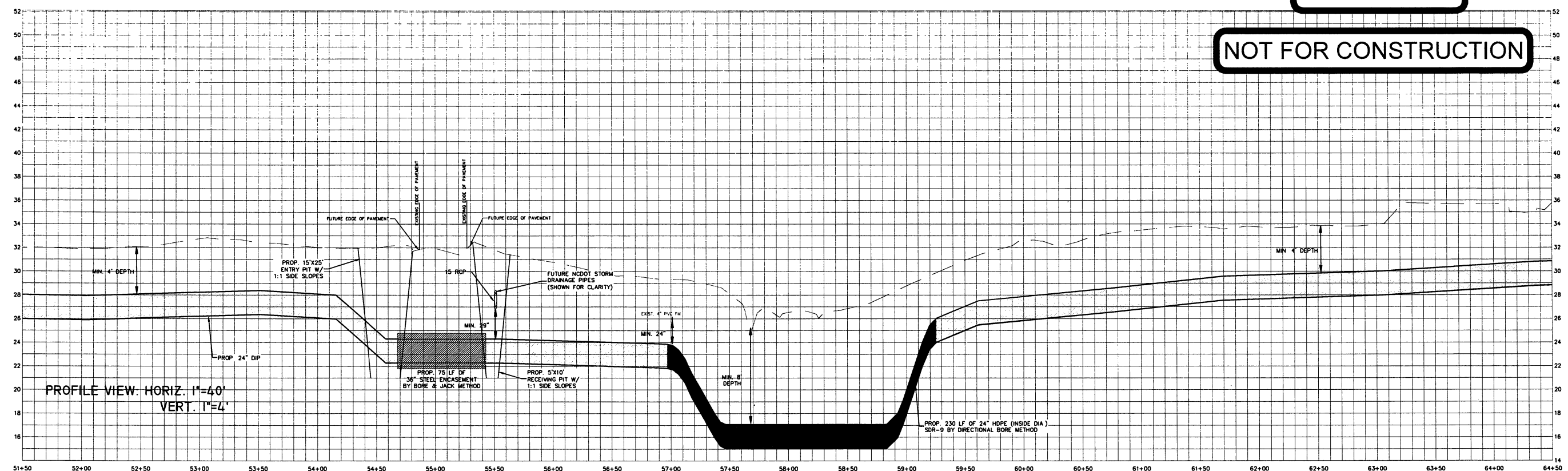


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PRELIMINARY

NOT FOR CONSTRUCTION



REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER MWF	DRAWING SCALE 1"=40'
DRAWN BY AMH	PROJECT DATE 20090228 00 RA
APPROVED BY MWF	FILE NAME 9/3/2010



community infrastructure consultants

720 CORPORATE CENTER DRIVE  
RALEIGH, NC 27607  
(919) 782-0405

Office Locations: North Carolina  
South Carolina  
Georgia

NC LICENSE NO. F-0374

RELEASED FOR  
APPROVALS  
BIDDING  
CONSTRUCTION  
RECORD DWG.

DATE

PINEY GREEN UTILITY RELOCATION  
FOR THE  
ONSLOW WATER AND SEWER AUTHORITY  
ONSLOW COUNTY, NC

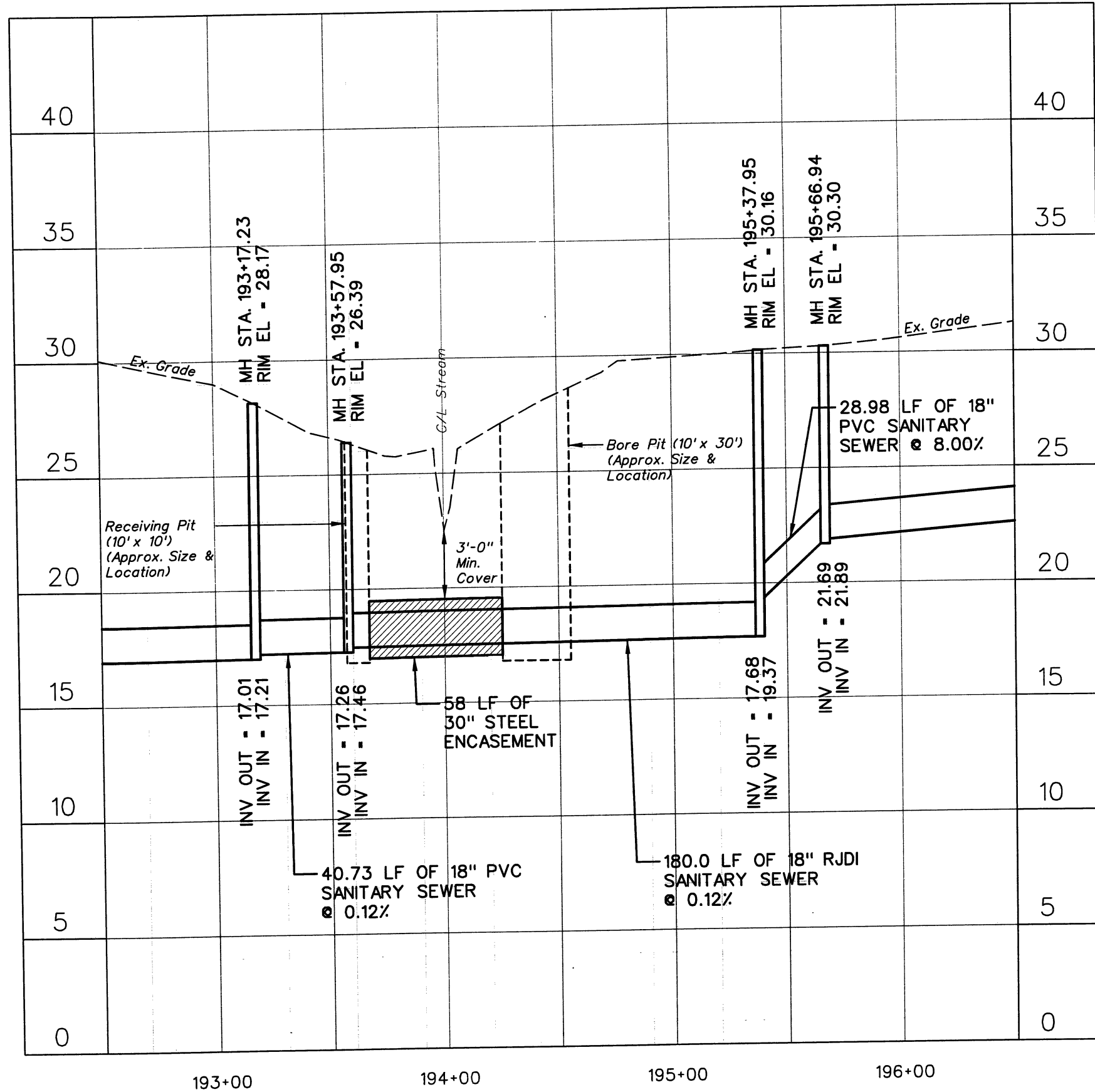
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51+50.00 TO 64+50.00

C21  
36



tketh  
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Sht\_3\_Trench



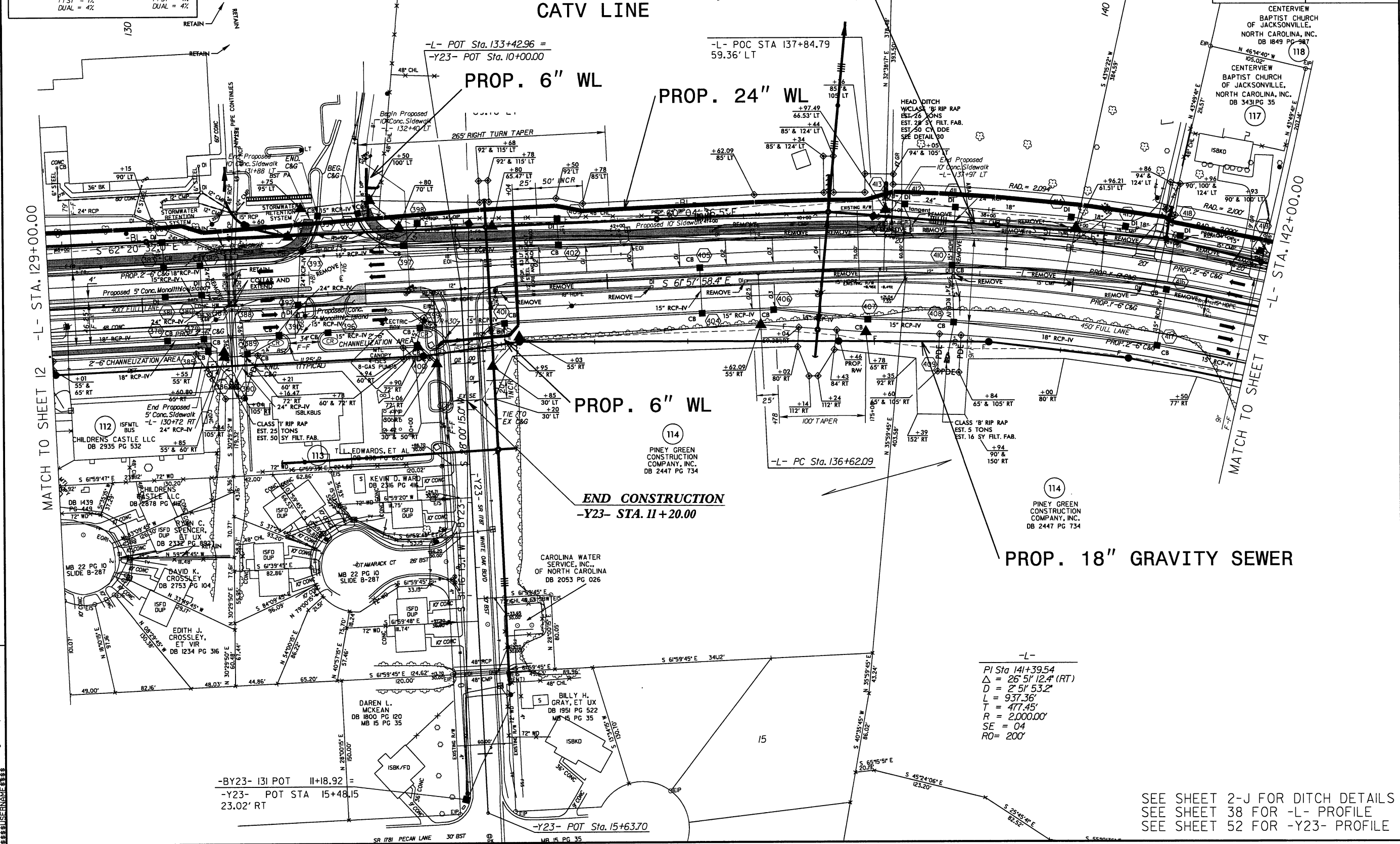
ONSLOW COUNTY  
ONSLOW WATER & SEWER AUTHORITY  
NORTH CAROLINA  
PINEY GREEN SEWER - PHASE 3  
TRENCHLESS INSTALLATION NO. 3

PRELIMINARY  
DO NOT USE  
FOR CONSTRUCTION

DESIGNED BY: JEO  
DRAWN BY: TK  
CHECKED BY: MDS  
PROJECT NO.: 2896-N  
DATE: JUNE 2011  
SCALE: HOR. 1" = 50'  
VER. 1" = 5'

SHEET NO.  
3

PROJECT REFERENCE NO.	SHEET NO.
<u>4-3810</u>	<u>13</u>
RW SHEET NO. _____	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<div style="border: 2px solid black; padding: 10px; margin: 0 auto; width: 80%;"> <p style="font-size: 1.5em; margin: 0;"><b>PRELIMINARY PLANS</b></p> <p style="font-size: 0.8em; margin: 0;"><b>DO NOT USE FOR CONSTRUCTION</b></p> </div>	



SEE SHEET 2-J FOR DITCH DETAILS  
SEE SHEET 38 FOR -L- PROFILE  
SEE SHEET 52 FOR -Y23- PROFILE

2005 ADT  
2030 ADT

-L-  
PINEY GREEN  
ROAD  
(SR 1406)

$\frac{20'00}{32200}$

$\frac{100}{2800}$

$\frac{100}{4400}$

$\frac{200}{7200}$

PROF  
CATV

-Y24- HEMLOCK DRIVE (SR 1876)

DHV = 7X  
DIR = 60X  
TTST = 1X  
DUAL = 1X

PROP. OH POWER, TELEPHONE,  
CATV LINE

PROP. 24" WL

## BEGIN CONSTRUCTION

**Y25- STA. 11+90.00**

PROP. 6" WL

PROP. 18" GRAVITY SEWER

$\Delta = 20.512.7$   
 $D = 2^{\circ} 51' 53.2''$   
 $L = 937.36'$   
 $T = 477.45'$   
 $R = 2,000.00'$   
 $SE = 04$   
 $RO = 200'$

$$\begin{aligned}\Delta &= 8^{\circ} 42' 31.0'' \text{ (RT)} \\ D &= 11^{\circ} 27' 33.0'' \\ L &= 76.00' \\ T &= 38.07' \\ R &= 500.00'\end{aligned}$$

7/RT	$\frac{2005 \text{ ADT}}{2030 \text{ ADT}}$ $-Y25 \text{ BIRCHWOOD LANE (SR 1804)}$ $\begin{array}{l} \text{DHW} = 11\% \\ \text{DIR} = 65\% \\ \text{TTST} = 0\% \\ \text{DUAL} = 1\% \end{array}$ $\frac{500}{500}$
	$\frac{250}{250}$ $\frac{250}{250}$ $\frac{20100}{33800}$
	$\frac{20100}{33800}$ $-L \text{ PINEY GREEN ROAD (SR 1406)}$ $\begin{array}{l} \text{DHW} = 7\% \\ \text{DIR} = 55\% \\ \text{TTST} = 1\% \\ \text{DUAL} = 4\% \end{array}$ $\begin{array}{l} \text{DHW} = 7\% \\ \text{DIR} = 55\% \\ \text{TTST} = 1\% \\ \text{DUAL} = 4\% \end{array}$



REMOVAL OF EXIST PAVEMENT

SEE SHEET 2-J FOR DITCH DETAILS  
SEE SHEET 38 FOR -L- PROFILE  
SEE SHEET 52 FOR -Y24- & -Y25- PROFILES  
SEE SHEET 56 FOR -DRI- PROFILE

PROP. OH POWER, TELEPHONE,  
CATV LINE

PROP. 24" WL

DIRECTIONAL BORE  
24" WATER LINE FROM  
STA. 165+40 TO STA. 168+90  
LINE -L-

PROP. 6" WL

HAND CLEARING IN  
WETLAND = 0.12 ACRES  
SITE 5

## CONSTRUCTION

PROP. 18" GRAVITY SEWER

# PROPOSED PUMP STATION

PROP 3" LOW PRESSURE  
FORCE MAIN

PROP. 12" FORCE MAIN

-L-

---

PI Sta 168+42.34  
 $\Delta = 4^\circ 24' 17.2''$  (LT)  
 $D = 3^\circ 49' 11.0''$   
 $L = 1,083.97'$   
 $T = 566.87'$   
 $R = 1,500.00'$   
 $SE = 04$   
 $RO = 200'$

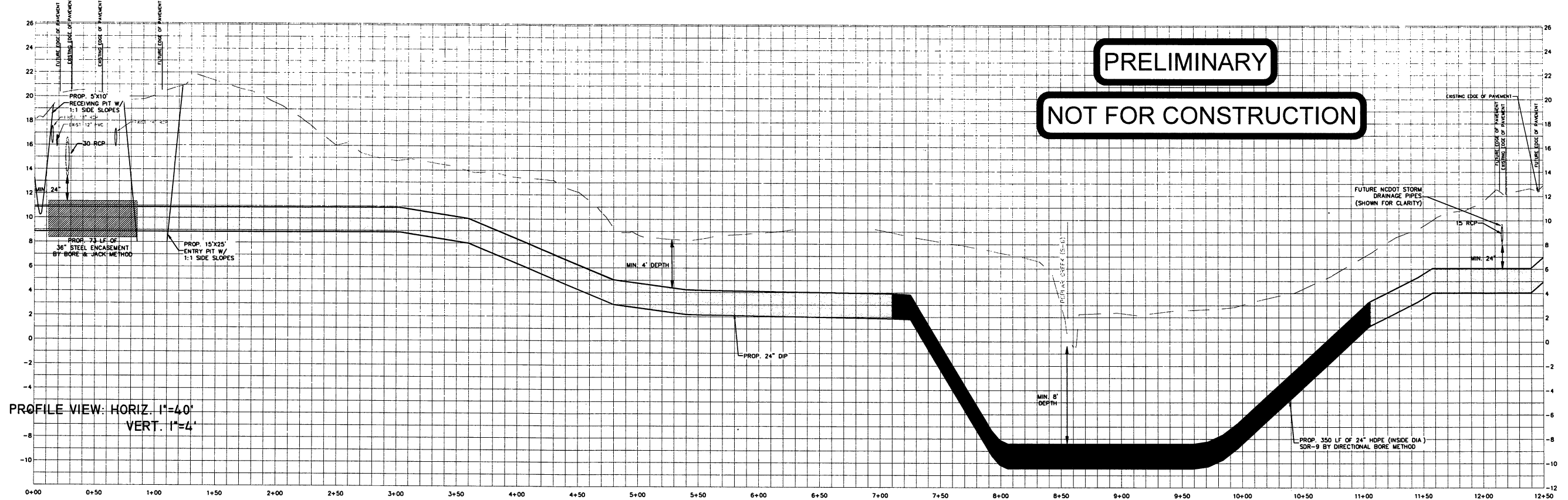
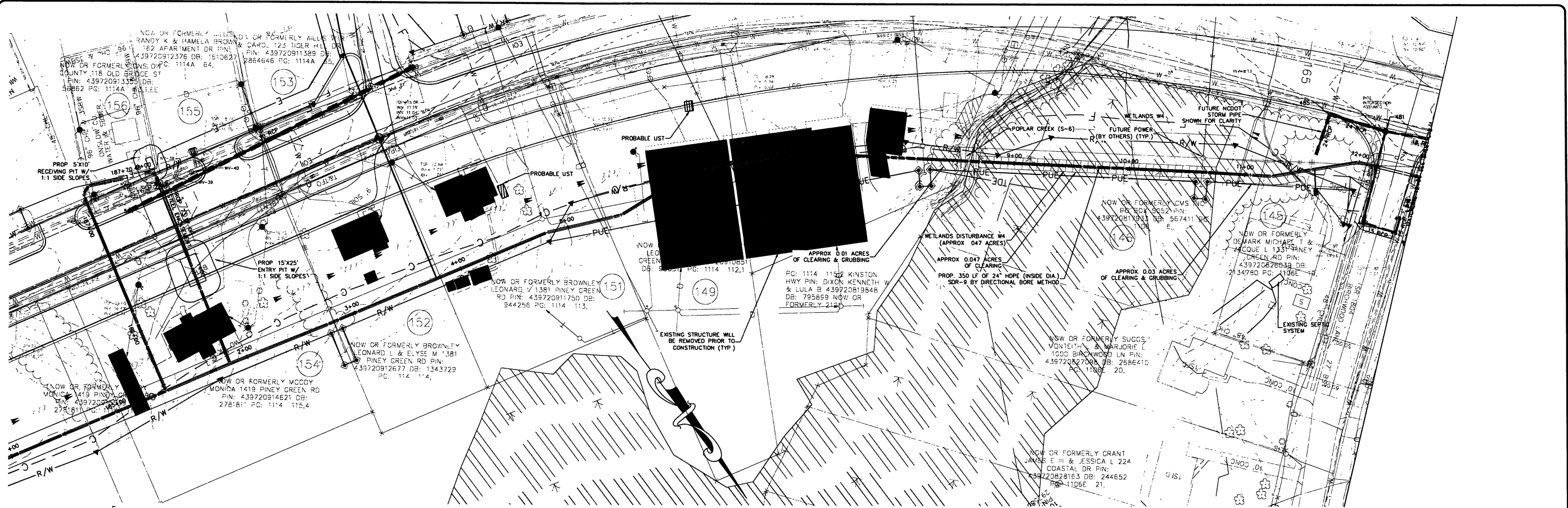
SEE SHEET 2-J FOR DITCH DETAILS  
SEE SHEET 2-W FOR CULVERT DETOUR  
SEE SHEET 39 FOR -L- PROFILE  
SEE SHEET 52 FOR -Y26- PROFILE

Utility Permit Drawing  
Sheet 19 of 43

	REVISIONS
R/W REV 17/18/10	- ADDED TEMPORARY CONSTRUCTION EASEMENT TO PARCELS 137 & 140 -JDE
R/W REV 19/20/10	- INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. DCS
R/W REV 19/27/10	- INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. JDE
R/W REV 12/01/01	- INCREASED TCE ON PARCEL 144. NWN
R/W REV 11/4/10	- CHANGED PARCEL OWNER NAME FOR PARCEL 137 -JDE
R/W REV 13/11/11	- UPDATED PARCEL OWNER NAME FOR PARCEL 137. JDE



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**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER MWF	DRAWING SCALE 1"=40'
DRAWN BY AMH	PROJECT DATE 20090228.00.RA
APPROVED BY MWF	PROJECT NUMBER 20090228.00.RA
FILE NAME	PROJECT DATE 9/3/2010



720 CORPORATE CENTER DRIVE  
RALEIGH, NC 27607  
(919) 782-0495  
Office Locations: North Carolina  
South Carolina  
Georgia  
NC LICENSE NO. D-0374

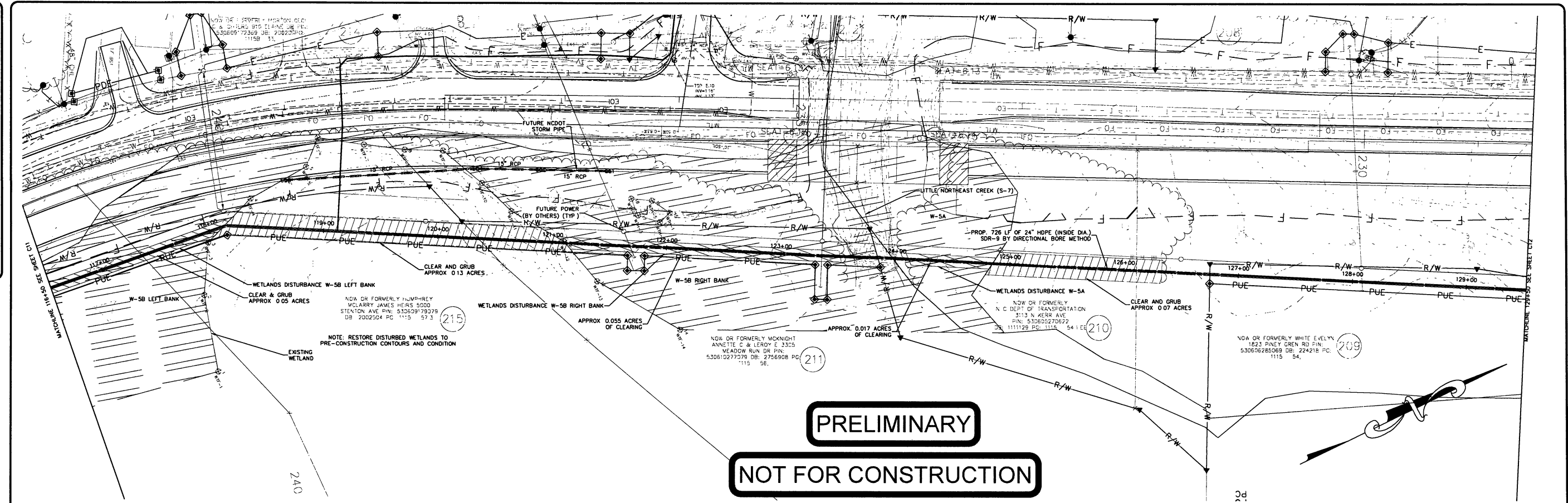
RELEASED FOR APPROVALS	DATE
BIDDING	
CONSTRUCTION	
RECORD DWG.	

PINEY GREEN UTILITY RELOCATION  
FOR THE  
ONSLOW WATER AND SEWER AUTHORITY  
ONSLOW COUNTY, NC

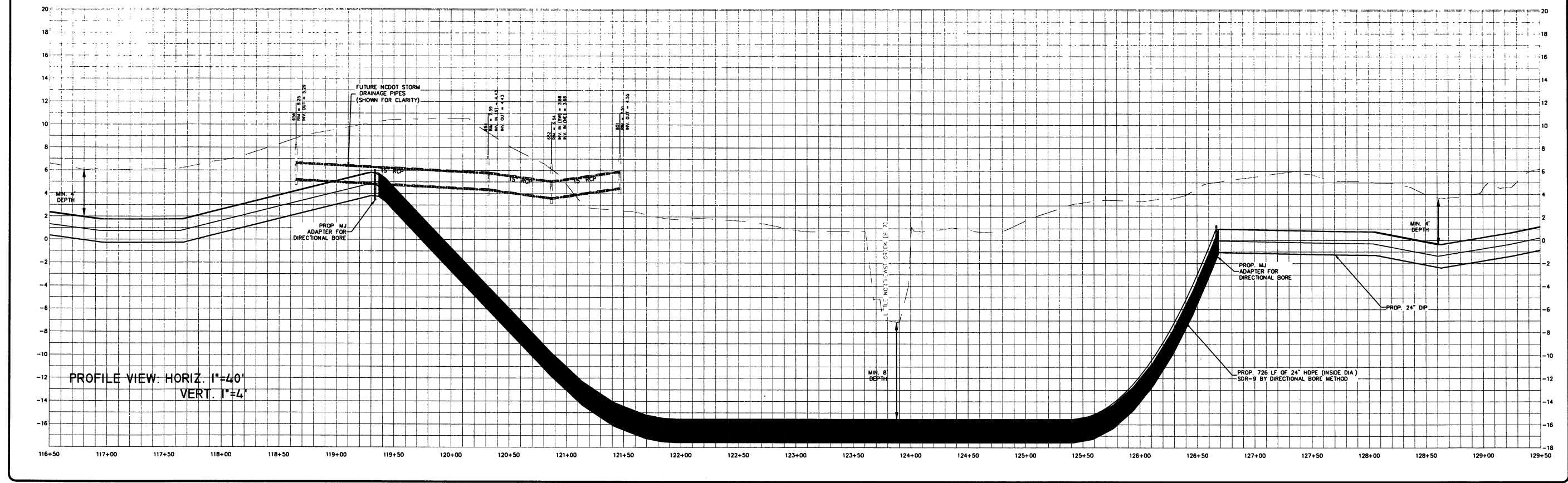
ALIGNMENT B  
0+00.00 TO 12+50.00

C17  
36

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**NOT FOR CONSTRUCTION**



REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER MWF	DRAWING SCALE 1:40
DRAWN BY AMH	PROJECT DATE 20090228.00.RA
APPROVED BY MWF	PROJECT NUMBER 20090228.00.RA
FILE NAME	DATE 9/3/2010

**WK DICKSON**  
community infrastructure consultants

720 CORPORATE CENTER DRIVE  
RALPH, NC 27667  
(919) 782-0495  
Office Locations: North Carolina  
South Carolina  
Georgia  
NC LICENSE NO. F-0374

RELEASED FOR  
APPROVALS  
BIDDING  
CONSTRUCTION  
RECORD DWG.

DATE

PINEY GREEN UTILITY RELOCATION  
FOR THE  
ONSLow WATER AND SEWER AUTHORITY  
ONSLow COUNTY, NC

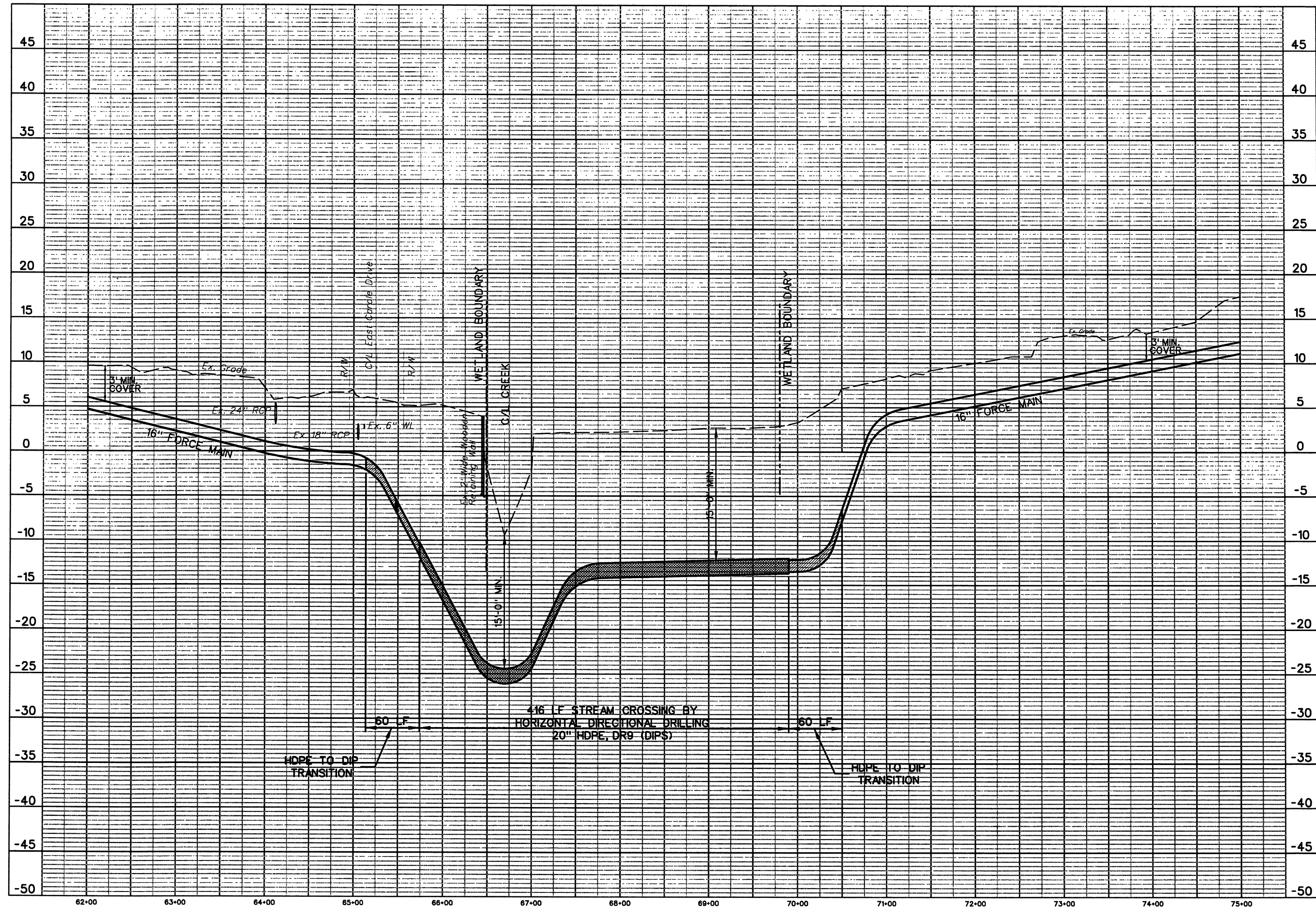
ALIGNMENT A  
116+50.00 TO 129+50.00

C11  
36

tkeith

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**Sht\_2\_Trench**



ONSLOW WATER & SEWER AUTHORITY		NORTH CAROLINA	
ONSLOW COUNTY		PINETREE GREEN SEWER - PHASE 3	
TRENCHLESS INSTALLATION NO. 2			

PRELIMINARY	
DO NOT USE FOR CONSTRUCTION	
DESIGNED BY:	JEO
DRAWN BY:	TK
CHECKED BY:	MDS
PROJECT NO.:	2896-N
DATE:	MAY 2011
SCALE:	HOR. 1" = 100' VER. 1" = 10'
SHEET NO.	
2	

**75 YEARS**

**THE WOOTEN COMPANY**

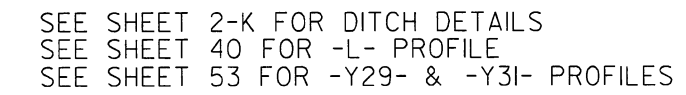
ENGINEERING | PLANNING | ARCHITECTURE

120 North Broyan Avenue Raleigh, NC 27603-1423  
919.828.0531 fax 919.834.3589  
License Number: E-0115

## REVISIONS





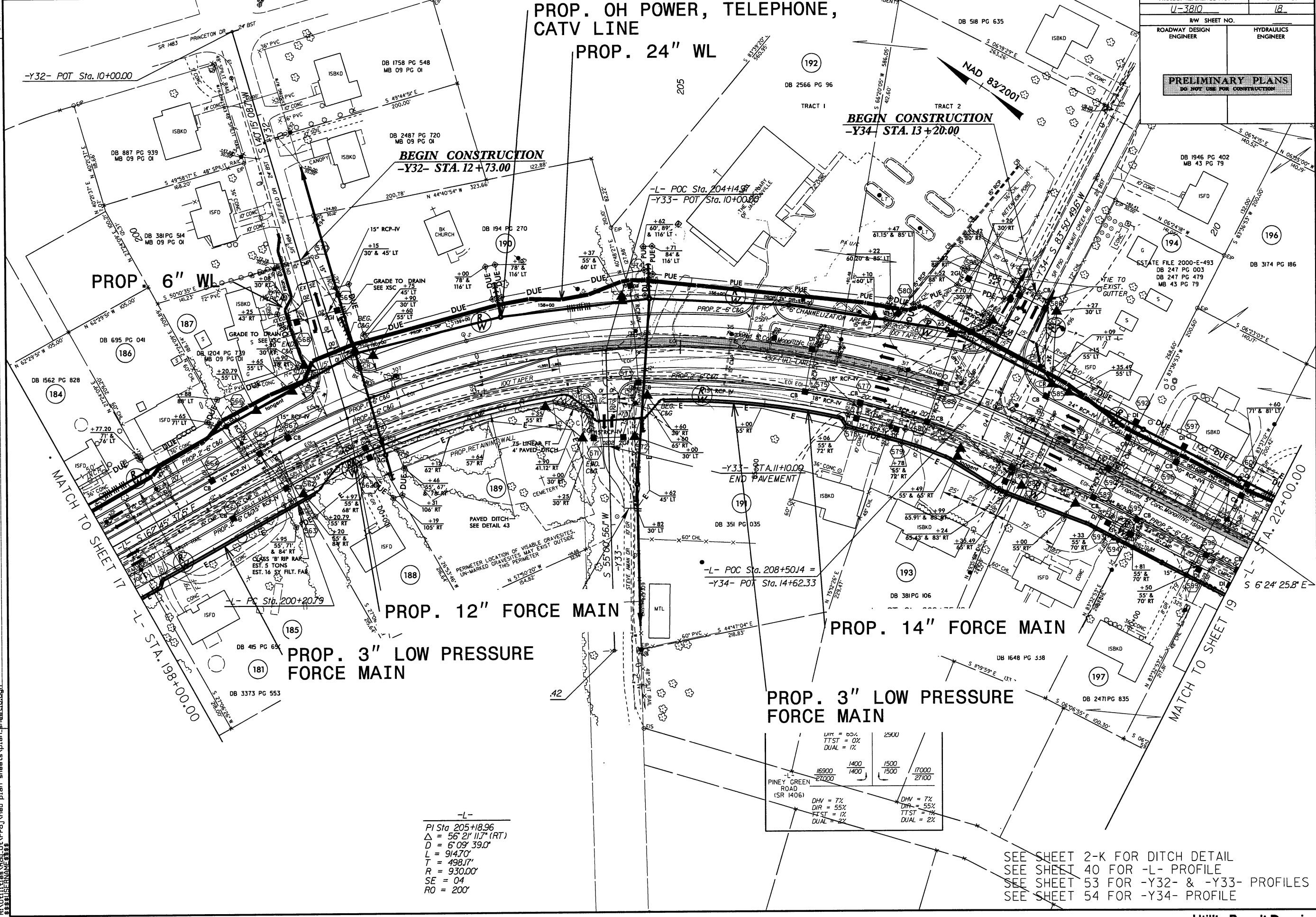


8/17/99

REVISIONS

RAW REV. 17/19/10 - ADDED TEMPORARY CONSTRUCTION EASEMENT TO PARCEL 196  
RAW REV. 19/10/10 - INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. DCS  
RAW REV. 11/14/10 - CHANGED PARCEL OWNER NAMES FOR PARCELS 181 & 196  
RAW REV. 3/11/11 - UPDATED PARCEL OWNER NAME FOR PARCEL 196. JDE

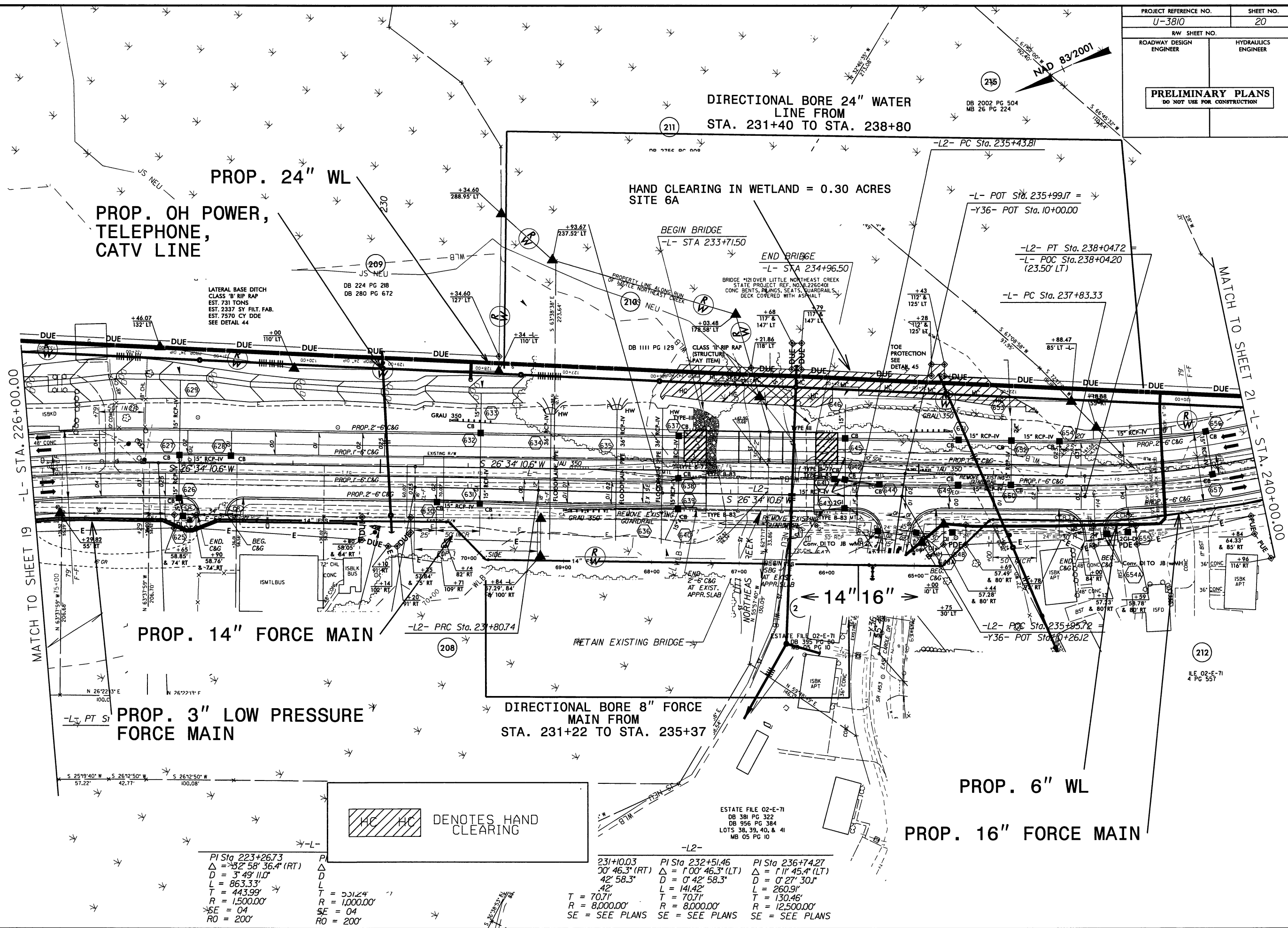
16 JUN 2011 15:43  
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PROJECT REFERENCE NO.		SHEET NO.	
U-3810		18	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<div>PRELIMINARY PLANS</div> <div>DO NOT USE FOR CONSTRUCTION</div>			



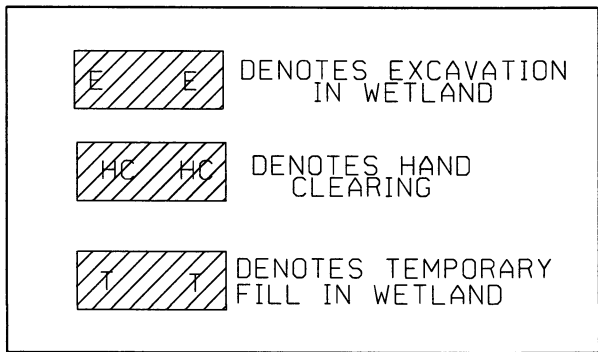




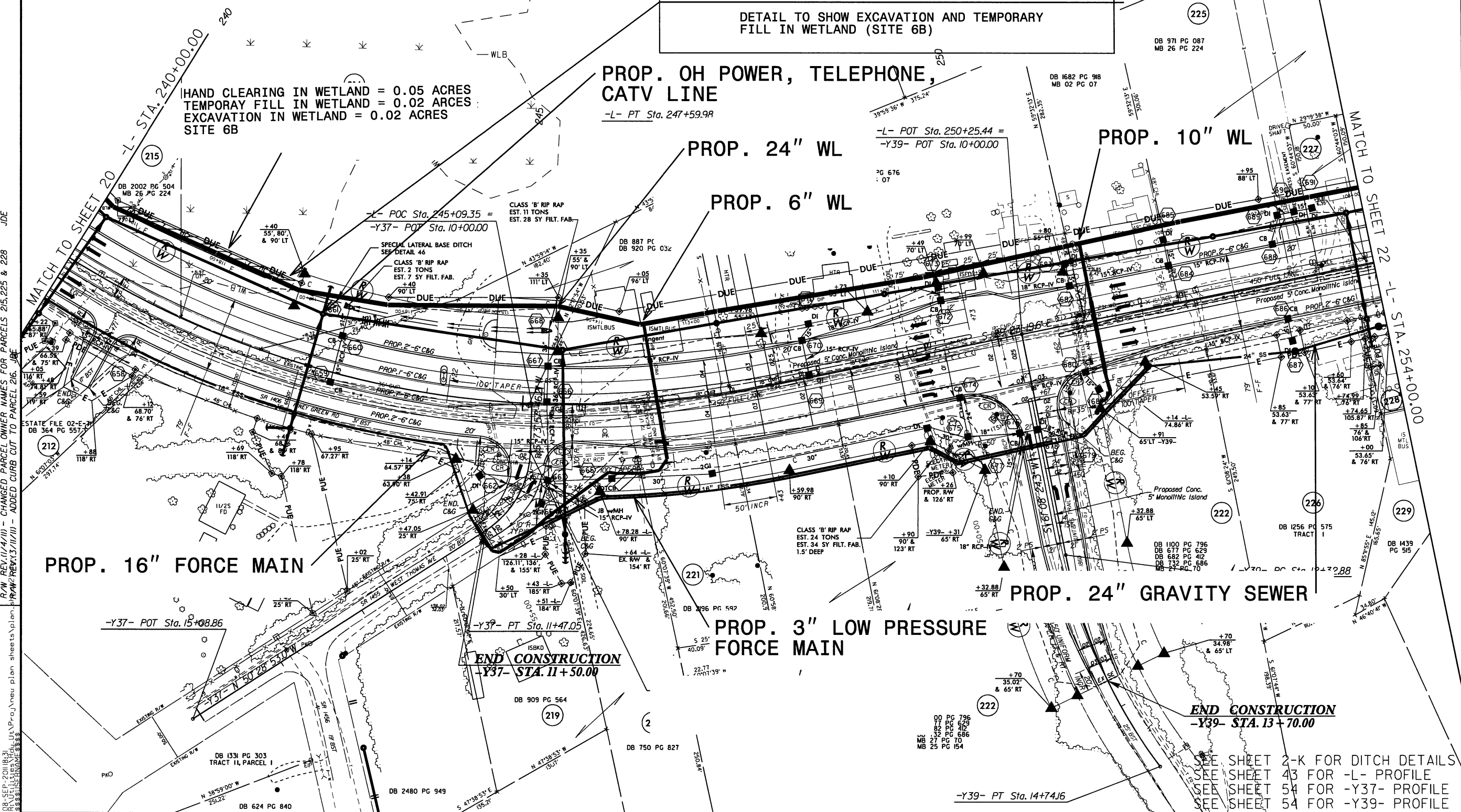
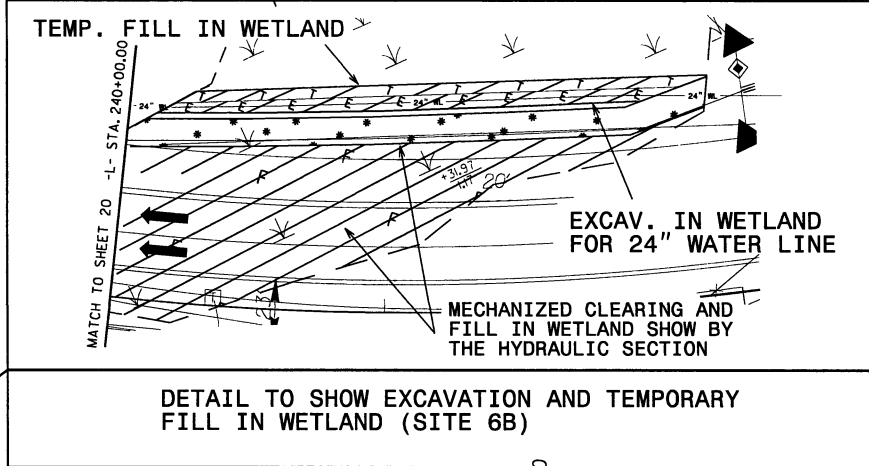
R/W REV. 19/10/10 - INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. DCS  
 R/W REV. 11/4/11 - CHANGED PARCEL OWNER NAME FOR PARCEL 215 JDE  
 R/W REV. 13/11/11 - ADDED DRIVEWAY TO PARCELS 211 & 215. JDE  
 08-SEP-2011 B02  
 R:\Utilities\Drawings\Utility\Projeu plan sheets\plan sheets\2011\U-3810.dgn



PROJECT REFERENCE NO.	SHEET NO.
U-3810	21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



-Y37-  
PI Sta. 11+02.77  
 $\Delta = 55^\circ 33' 20.7''$   
 $D = 57' 17'' 44.8''$   
 $L = 96.96'$   
 $T = 52.67'$   
 $R = 100.00'$   
SE = SEE PLANS



PROP. 24" WL

PROP. OH POWER, TELEPHONE,  
CATV LINE

PROP. 6" WL

**BEGIN CONSTRUCTION**  
**-Y41- STA. 13+00.00**

PROP. 6" WL

PROP. 24" GRAVITY SEWER

**END CONSTRUCTION**  
**-Y40- STA. 11+44.00**

20.30 ADT  
20.30 ADT

ADT = 11X  
ADT = 12X

ADT = 11X  
ADT = 12X

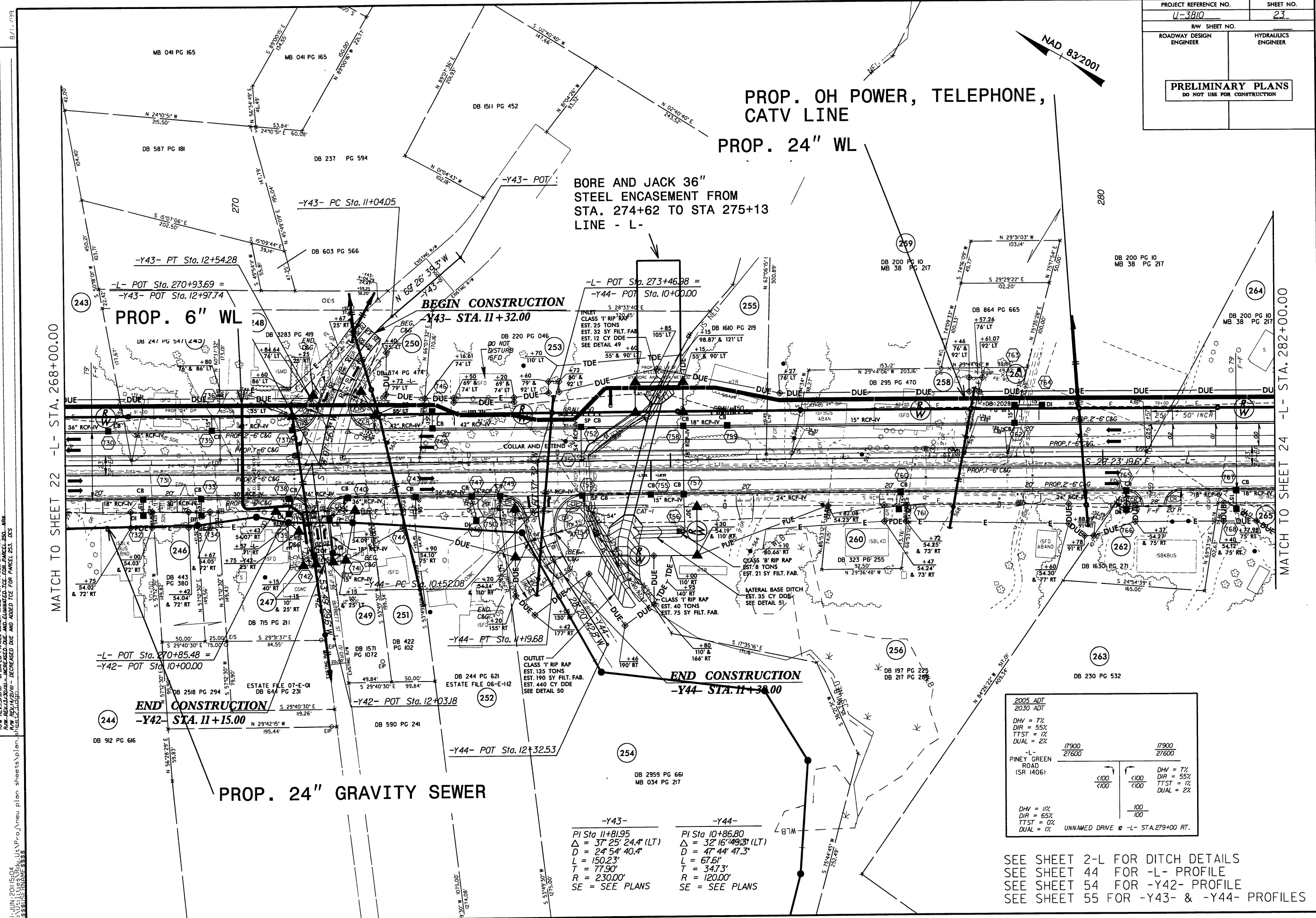
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ADT = 5X

ADT = 5X  
ADT = 12X

MARSHALL CHAPEL ROAD (SR 1419)

PINEY GREEN ROAD (SR 1406)

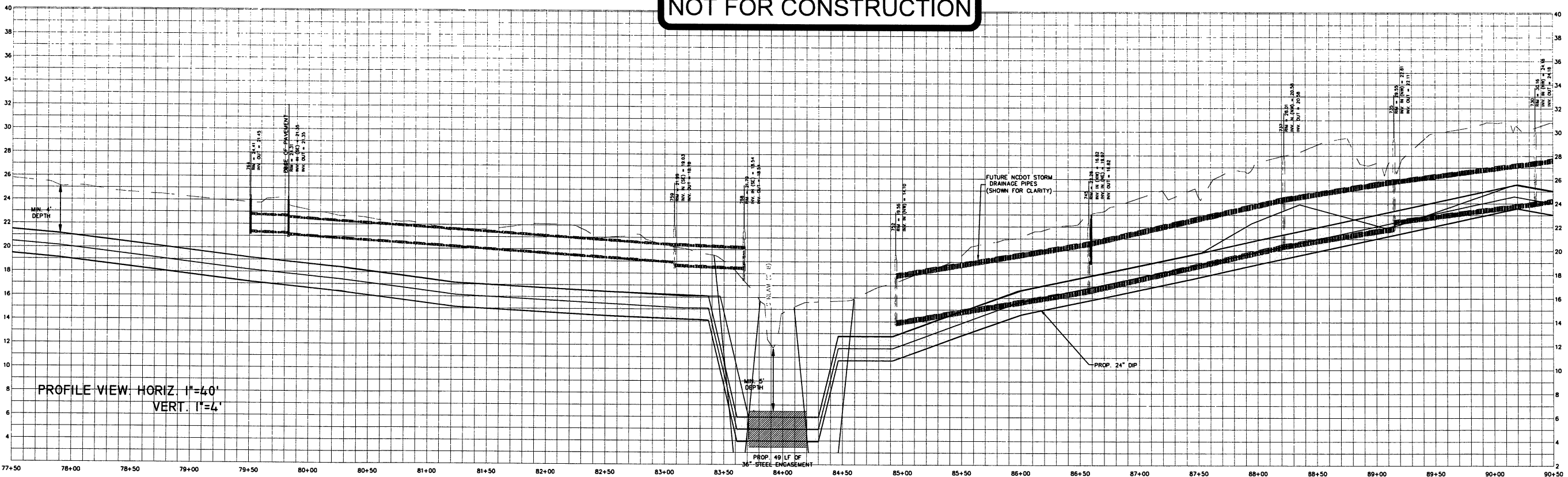
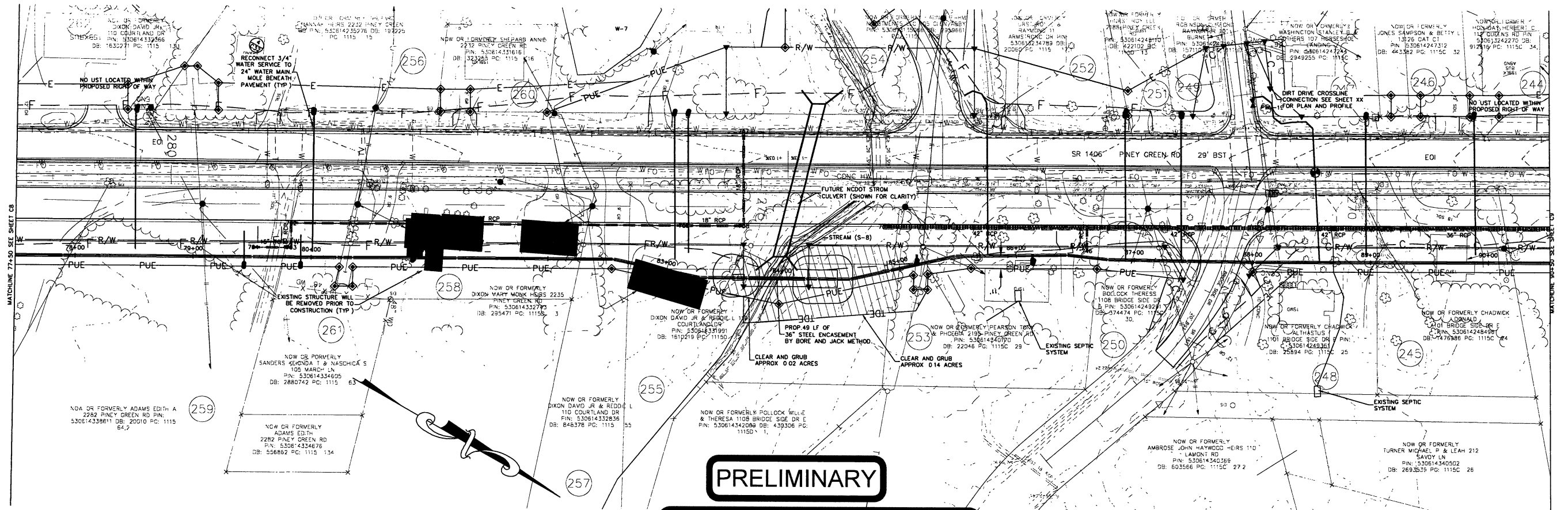
SEE SHEET 2-K FOR DITCH DETAIL  
SEE SHEET 43 FOR L- PROFILE  
SEE SHEET 54 FOR Y40- & -Y41- PROFILES



2005 ADT	2030 ADT
DHV = 7%	DHV = 7%
DIR = 55%	DIR = 55%
TTST = 1%	TTST = 1%
DUAL = 2%	DUAL = 2%
-L- PINEY GREEN ROAD (SR 1406)	
17900	17900
27600	27600
<100	<100
<100	<100
DHV = 11%	DHV = 7%
DIR = 65%	DIR = 55%
TTST = 0%	TTST = 1%
DUAL = 1%	DUAL = 2%
UNNAMED DRIVE	-L- STA. 279+00 RT.

SEE SHEET 2-L FOR DITCH DETAILS  
 SEE SHEET 44 FOR -L- PROFILE  
 SEE SHEET 54 FOR -Y42- PROFILE  
 SEE SHEET 55 FOR -Y43- & -Y44- PROFILES

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REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER	DRAWING SCALE
BY	1" = 40'
DATE	PROJECT DATE



720 CORPORATE CENTER DRIVE  
RALEIGH, NC 27607  
(919) 782-0495  
Office Locations: North Carolina  
South Carolina  
Georgia  
NC LICENSE NO. F-0374

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

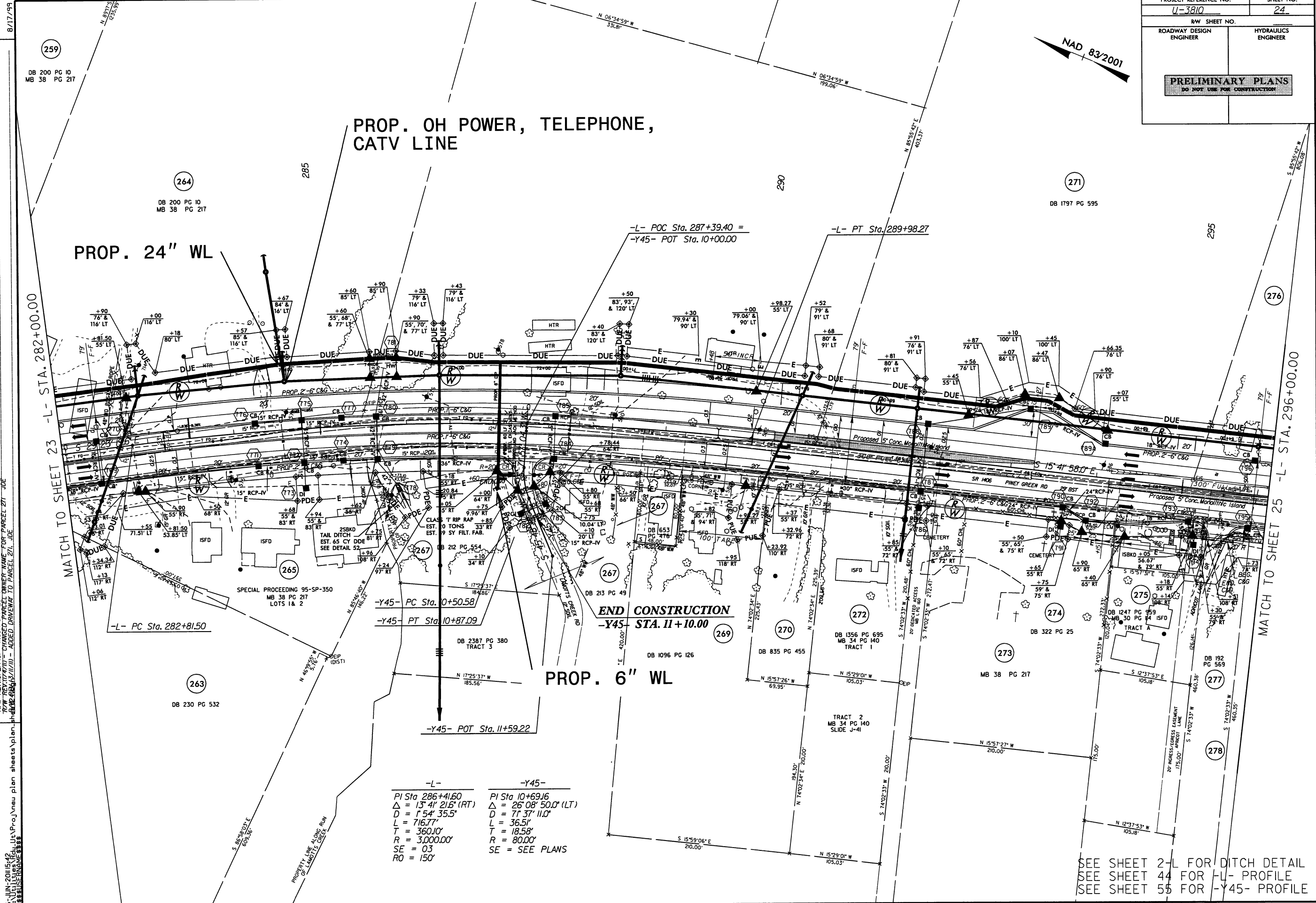
PINEY GREEN UTILITY RELOCATION  
FOR THE  
ONSLW WATER AND SEWER AUTHORITY  
ONSLW COUNTY, NC

ALIGNMENT A  
77+50.00 TO 90+50.00

C8  
36



PROJECT REFERENCE NO.		SHEET NO.	
U-3810		24	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION			



SEE SHEET 2-L FOR DITCH DETAIL  
SEE SHEET 44 FOR -L- PROFILE  
SEE SHEET 55 FOR -Y45- PROFILE

REVISIONS

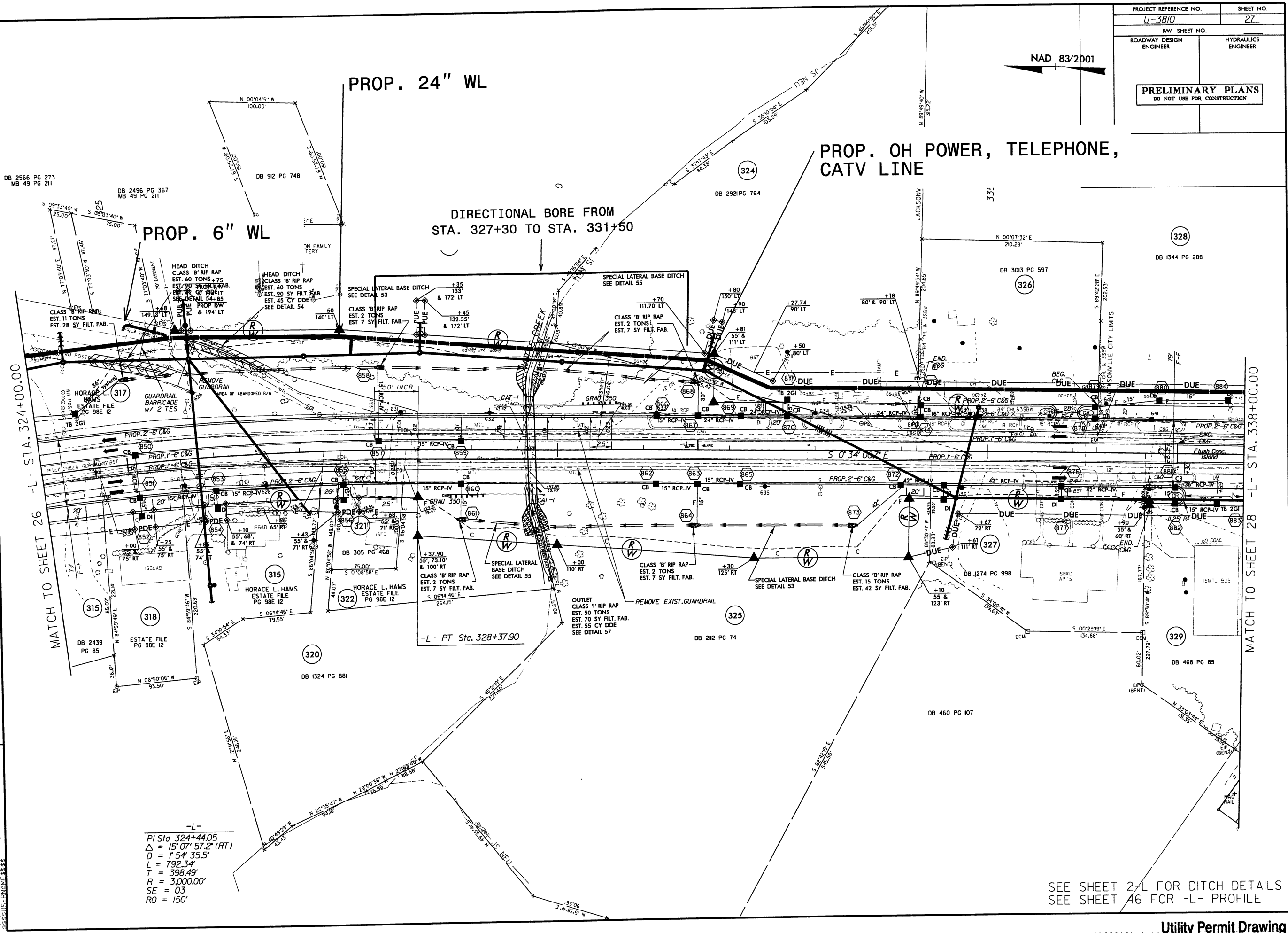
R/W REV.19/10/01 - INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. DCS
R/W REV.17/4/11 - CHANGED PARCEL OWNER NAMES FOR PARCELS 280 & 286. PROP LINES WERE REVISED FOR PARCELS 291 & 298. PARCEL 299A WAS CREATED. JDE
R/W REV.13/11/11 - ADDED DRIVEWAY TO PARCELS 276,283,285,286 & 289. SHIFTED DUE ON PARCEL 283. JDE
res125.dgn





NAD 83/2001

REVISIONS  
 R/W REV 19/10/10 - INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W.  
 PARCEL 325 SLIGHT REDUCTION IN R/W. DCS  
 R/W REV 19/12/10 - INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. JDE  
 R/W REV 17/11/11 - CHANGED DITCH TO PARCELS 320 & 325 AND SHORTENED DITCH TO ACCOMMODATE DRIVEWAY ON PARCEL 325 AND ADDED DRAINAGE STRUCTURES ON PARCEL 327. JDE  
 R/W REV 13/10/11 - ADDED PUE FOR PARCEL 323. L- STA 325+80.00  
 R/W REV 13/10/11 - ADDED PUE FOR PARCEL 323. L- STA 325+80.00

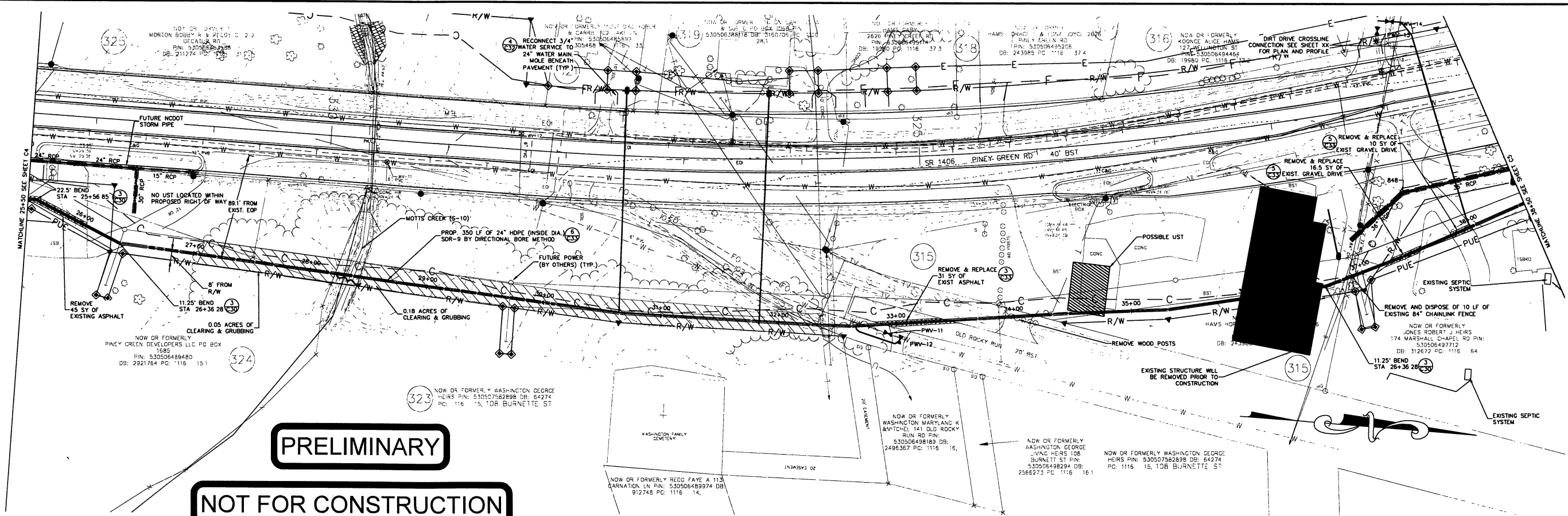


-L-  
 PI Sta 324+44.05  
 $\Delta = 15^{\circ} 07' 57.2''$  (RT)  
 $D = 154' 35.5''$   
 $L = 792.34'$   
 $T = 398.49'$   
 $SE = 03$   
 $RO = 150'$

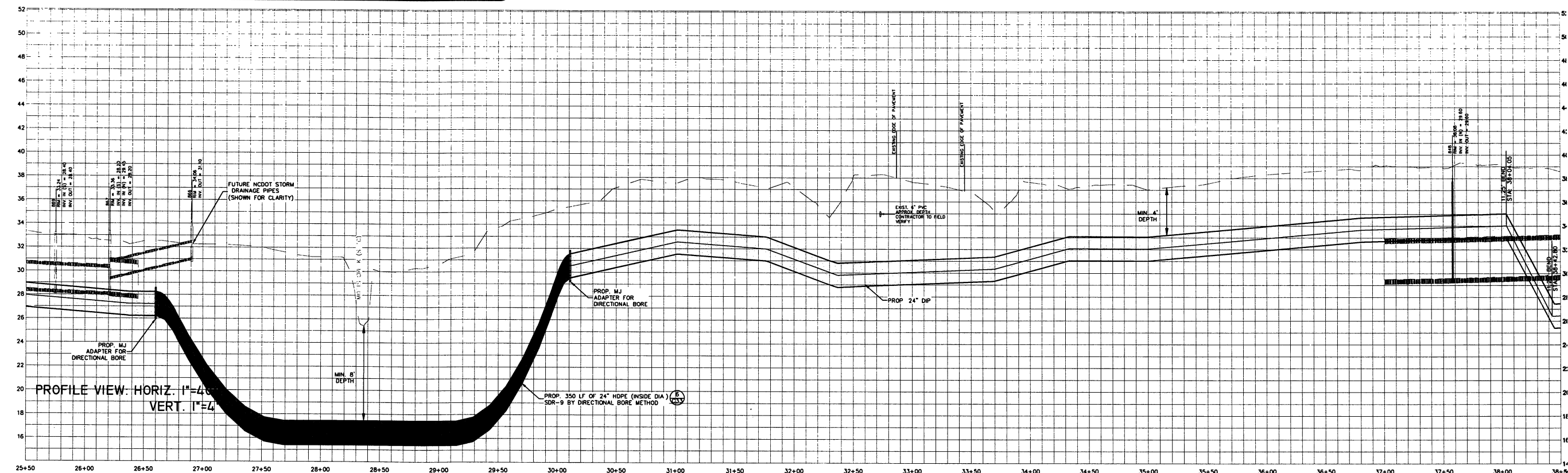
SEE SHEET 2-L FOR DITCH DETAILS  
 SEE SHEET 46 FOR -L- PROFILE



THIS DRAWING IS A PRELIMINARY DESIGN AND SHALL BE USED FOR PERMITTING PURPOSES ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION. ANY CHANGES TO THIS DRAWING SHALL BE MADE BY A SEPARATE DRAWING.



**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER  
MWF  
DRAWN BY  
AMH  
APPROVED BY  
MWF  
FILE NAME  
PROJECT NUMBER  
20090228.00.RA  
PLOT DATE  
9/3/2010



720 CORPORATE CENTER DRIVE  
RALPH, NC 27607  
(919) 782-0495  
Office Locations: North Carolina  
South Carolina  
Georgia  
NC LICENSE NO. F-0374  
RELEASED FOR  
DATE  
APPROVALS  
BIDDING  
CONSTRUCTION  
RECORD DWG.

PINEY GREEN UTILITY RELOCATION  
FOR THE  
ONSLAW WATER AND SEWER AUTHORITY  
ONSLAW COUNTY, NC

ALIGNMENT A  
25+50.00 TO 38+50.00

C4  
36

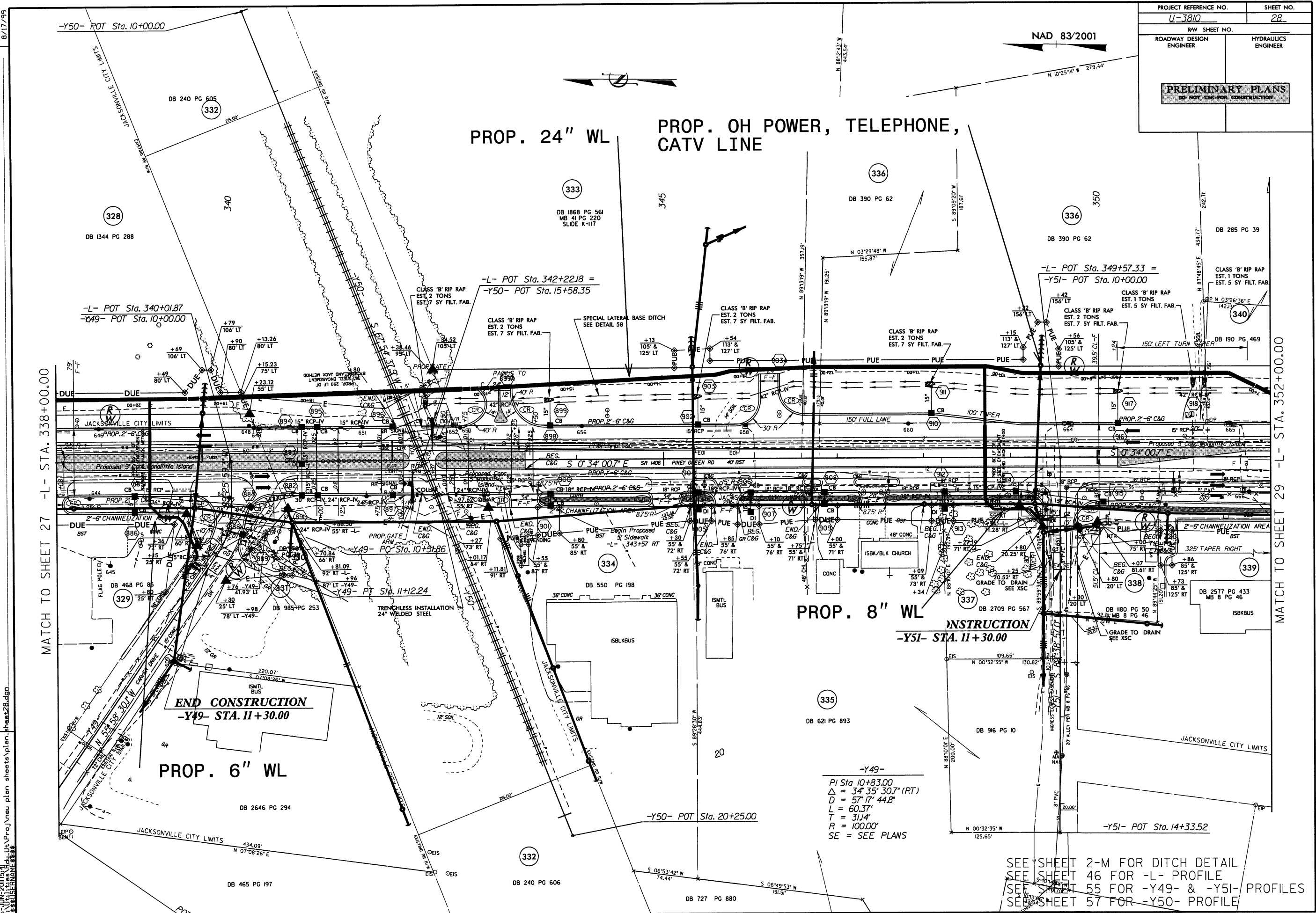
PROJECT REFERENCE NO.	SHEET NO.
U-3810	28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

REVISIONS

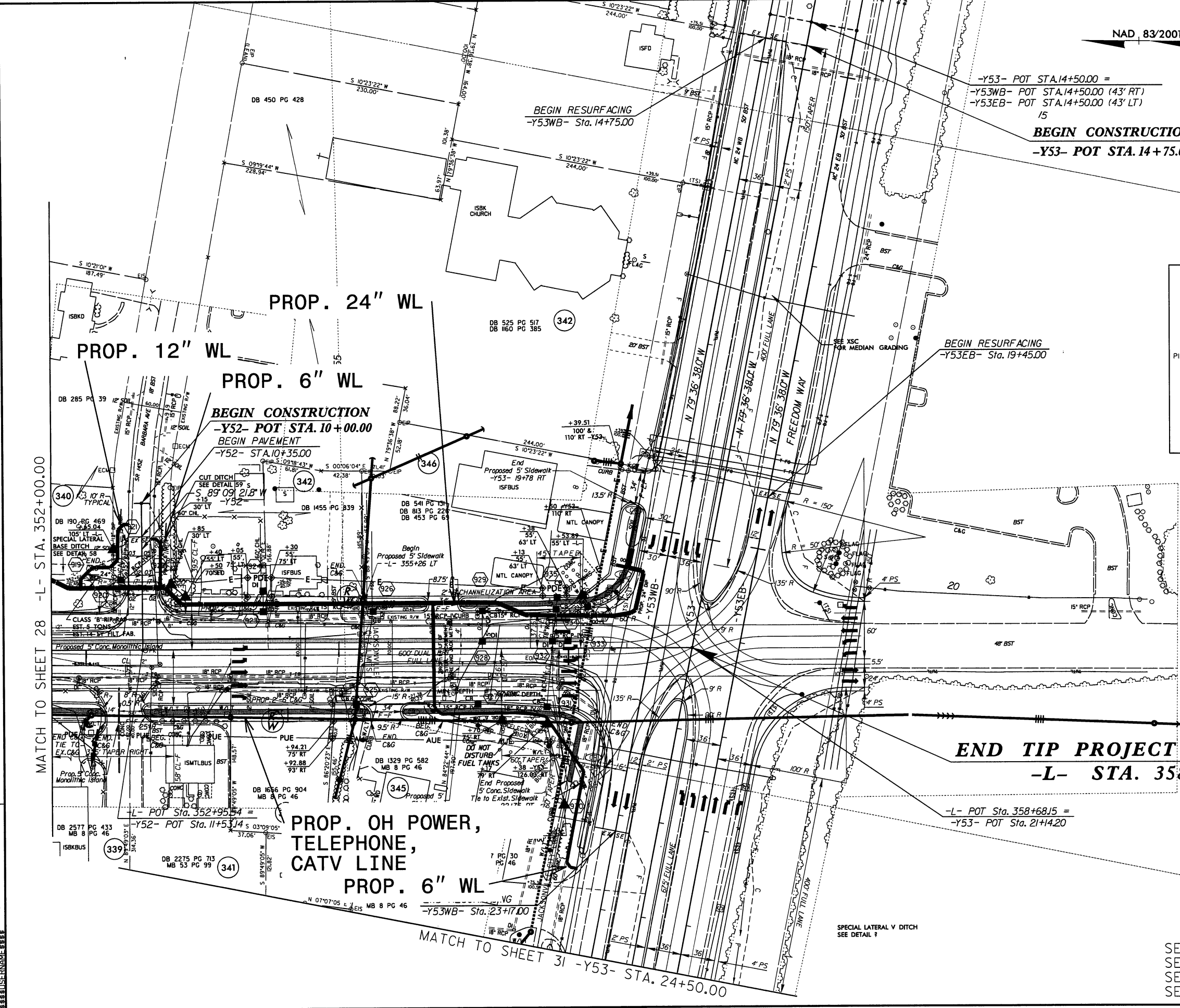
R/W REV (9/10/10) - INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. DCS

R/W REV (11/4/11) - CHANGED PARCEL OWNER NAME FOR PARCEL 329. JDE

15 JUN 2011 15:41:11 U:\P\proj\new plan sheets\plan sheet28.dgn



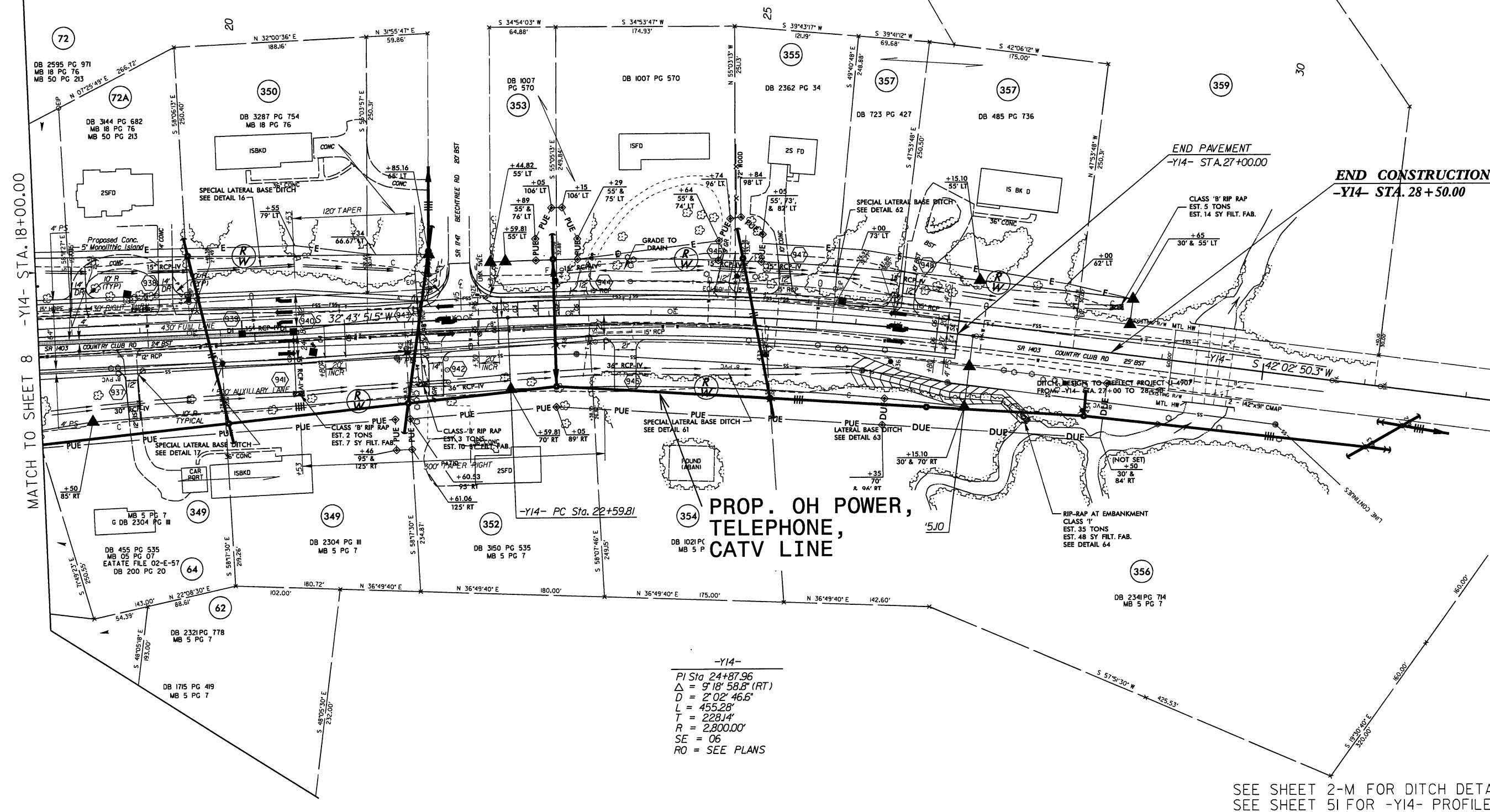
8/17/99  
REVISED  
B/W REV(19/10/10) - INCORPORATED STA AND OFFSETS CALCULATED BY LOCATION & SURVEYS IN STAKING THE R/W. DCS  
15 JUN 2011 15:41  
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PROJECT REFERENCE NO.	SHEET NO.
U-3810	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

2005 ADT 2030 ADT	-Y53- NC 24 FREEDOM WAY			
	26000	1600	1600	9700
	35700	1600	1600	10700
DIV = 7% DIR = 60% TTST = 1% DUAL = 3%	18800	6000	1600	9700
	27700	11000	1600	10700
-L- PINEY GREEN ROAD (SR 1406)		8400	3700	
		11300	3700	
		30500	38100	
DIV = 9% DIR = 55% TTST = 2% DUAL = 5%				CAMP LEJEUNE
				DIV = 9% DIR = 90% TTST = 1% DUAL = 3%
				-Y53- NC 24 FREEDOM WAY

PROJECT REFERENCE NO.	SHEET NO.
<u>U-3810</u>	<u>30</u>
RW SHEET NO. _____	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<div style="border: 1px solid black; padding: 10px; text-align: center;"> <b>PRELIMINARY PLANS</b>              DO NOT USE FOR CONSTRUCTION         </div>	



SEE SHEET 2-M FOR DITCH DETAILS  
SEE SHEET 5I FOR -YI4- PROFILE





**U-3810 NEU Narrative****Utility Owners:**

- **Power:** Jones-Onslow EMC – (contact: Tom Pritchard 910-353-1940)
- **Power:** Progress Energy – (contact: Warren Chadwick 910-520-9541)
- **Telephone:** Century Link (contact: Jeff Shepard 910-577-9357)
- **Water:** ONWASA (contact: Rod Butler 910-455-0722)
- **Sewer:** ONWASA (contact: Rod Butler 910-455-0722)
- **Cable TV:** Time Warner Cable (contact: Mark Bass 910-219-6615)
- **Onslow County School:** (contact: David Bullock 910-455-2211)
- **City of Jacksonville:** (contact: Wally Hansen 910-938-5330)

**General Utility Relocation:**

All utility lines inside the project limits will be adjusted as necessary or relocated away from construction. The water lines, power, telephone and CATV will be relocated prior to the letting. The sewer line construction will be done in the NCDOT Roadway Contract.

**Existing Utilities:**

- **Power:** existing power lines run overhead on poles along both sides of Piney Green Road from US 17 to NC 24.
- **Telephone:** existing Telephone lines (fiber optic and copper cables) are underground along both sides of Piney Green Road from US 17 to NC 24.
- **Water:** existing 12" and 18" water lines runs along Piney Green Road from US 17 to Old 30 Road, 2-12" water lines runs along Piney Green Road from Old 30 Road to Barbara Avenue, and 1-8" water line from Barbara Avenue to NC 24. The water lines that service the side streets off Piney Green Road range from 6" to 12".
- **Sewer:** existing 8" gravity sewer lines runs intermediately along the south side of Piney Green Road from US 17 to Courtland Road, a 4" force main runs along the south side of Piney Green Road from Country Club Road to Halltown Road and a 4" force main crosses Piney Green Road at White Oak High School. The 4" force main servicing White Oak High School will be relocated to the new sewer lines being designed by City of Jacksonville.
- **Cable TV:** existing cable TV is aerial and underground along Piney Green Road from US 17 to NC 24.

### **Proposed Utility Relocation:**

- **Power:** Progress Energy and Jones-Onslow EMC will abandon all existing facilities in Piney Green Road and install a new power pole line on the north side of Piney Green Road from US 17 to NC 24. Service drops will be installed along the side streets.
- **Telephone:** Century Link will abandon all existing facilities and attach new telephone lines to the proposed power poles on the north side of Piney Green Road from US 17 to NC 24.
- **Cable TV:** Time Warner will abandon all existing facilities and attach new CATV lines to the proposed power poles on the north side of Piney Green Road from US 17 to NC 24.
- **Water:** ONWASA will abandon all existing water lines and install a new 24" water line on the north side of Piney Green Road from US 17 to NC 24. The existing water lines in the side streets will be connected to the proposed 24" water line.
- **Sewer:** ONWASA existing gravity sewer lines will remain in place in place, the existing 4" force main from Country Club to Halltown Road will be abandon and a new line will be installed outside the limits of the project. City of Jacksonville is designing new force mains with pump station and gravity sewer lines to be installed along the south side of Piney Green Road from Regalwood Drive to Y-44-.

# PROPERTY OWNERS

## NAMES AND ADDRESSES

REFERENCE NO.	NAMES	ADDRESSES
89	NCDOT	306 DIVISION DRIVE WILMINGTON, NC 28401
104	GEORGE HOWARD, JR.	100 PRESTON DR. JACKSONVILLE, NC 28540
105	ONSLOW COUNTY	118 OLD BRIDGE STREET JACKSONVILLE, NC 28540
146	C.M.S., INC	PO BOX 5052 JACKSONVILLE, NC 28540
210	NCDOT	306 DIVISION DRIVE WILMINGTON, NC 28401
215	MCLARRY HUMPHREY	5000 STENTON AVE. PHILADELPHIA, PA 19144
216	DALE VENTERS	2043 PINEY GREEN ROAD JACKSONVILLE, NC 28540

Utility Permit Drawing  
Sheet 42 of 43

**NCDOT**  
DIVISION OF HIGHWAYS  
ONSLOW COUNTY  
PROJECT: U-3810

SR 1406 (PINEY GREEN ROAD)  
FROM US 17 (MARINE BLVD)  
TO NC 24 (FREEDOM WAY)

SHEET 1 OF 1

06/16/11



