STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

October 20, 2010

Mr. Bill Biddlecome
U. S. Army Corps of Engineers
Regulatory Field Office
Post Office Box 1000
Washington, NC 27889-1000

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

Dear Sirs:

Subject: **Application for Section 10 Permit, Section 404 Nationwide Permits 3 & 12, Section 401 Water Quality Certification, and CAMA Major Development Permit** for the Replacement of Bridge No. 19 on eastbound US 158 over the Pasquotank River in Pasquotank and Camden Counties. Federal Aid Project No. STP-0158(31) TIP No. U-4438, Debit $475.00 from WBS Element 35742.1.1.

Please find enclosed the North Carolina Division of Coastal Management Major Permit Forms, Pre-Construction Notification (PCN) form, permit drawings, roadway plans, utility plans, and stormwater management plan for the above referenced project. The adjacent riparian landowner return receipts will be forwarded upon receipt. An Environmental Assessment and Finding of No Significant Impact were completed for this project on April 29, 2009 and January 28, 2010 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 improvements to US 158 from NC 34 (Waters St.) to US 17 Business (Road St.), including the replacement of the existing 846-foot Bridge No. 19 with a new bridge of the same length over the Pasquotank River in Pasquotank and Camden Counties. Utilities that cross the Pasquotank River will be relocated as a result of project construction. Additionally, proposed improvements to the existing stormwater collection system will result in impacts to Poindexter Creek. Proposed permanent impacts are 0.01 acre to wetlands due to fill, 0.01 acre due to excavation, and 0.03 acre of fill in surface waters. The proposed let date for the project is April 19, 2011 with a review date of March 1, 2011. However, the let date may advance as additional funds become available.

Regulatory Approvals

Section 10 Permit: The NCDOT request that the crossing of the Pasquotank River be authorized via a Section 10 Permit.

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

TELEPHONE: 919-431-2000
FAX: 919-431-2002
WEBSITE: WWW.NCDOT.ORG

LOCATION:
4701 ATLANTIC AVENUE
SUITE 116
RALEIGH NC 27604

Section 404 Permit: The NCDOT requests that activities associated with the bridge replacement and stormwater system be authorized by Nationwide Permit 3. Authorization for the utility relocations is requested via a Nationwide Permit 12.

Section 401 Permit: We anticipate 401 General Certification numbers 3687 and 3819 will apply to this project. NCDOT is providing five copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality for their approval.

CAMA: NCDOT requests that the proposed bridge work and utility work associated with the electric line from the bridge tender's house to the movable bridge spans be authorized under a Coastal Area Management Act Major Development Permit. All other proposed utility work has been requested via a CAMA General Permit that was submitted on September 27, 2010. The landowner receipts will be provided once they have been received. Authorization to debit the $475 Permit Application Fee from WBS Element 35742.1.1 is hereby given.

A copy of this permit application 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 Rivenbark at crivenbark@ncdot.gov or (919) 431-6762.

Sincerely,

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

cc:
W/attachment
Mr. Brian Wrenn, NCDWQ (5 Copies)
Ms. Cathy Brittingham, NCDCM

W/o attachment (see website for attachments)
Mr. Scott McLendon, USACE, Wilmington
Mr. Joel Scussel USACE, Norfolk
Mr. Travis Wilson, NCWRC
Mr. Gary Jordan, USFWS
Mr. Ron Sechler, NMFS
Ms. Anne Deaton, NCDMF
Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. Dewayne Sykes, P.E., Utilities Unit
Mr. Jerry Jennings, P.E., Division 1 Engineer
Mr. Clay Willis, Division 1 Environmental Officer
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Ted Devens, P.E., PDEA

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

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	☒ Section 404 Permit ☒ Section 10 Permit	
1b. Specify Nationwide Permit (NWP) number: 3, 12 or General Permit (GP) number:		
1c. Has the N WP or GP number been verified by the Corps?	☒ Yes	☐ No

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

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

☐ 401 Water Quality Certification – Express ☐ Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: ☐ Yes ☒ No	For the record only for Corps Permit: ☐ Yes ☒ No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.		☐ Yes ☒ No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.		☒ Yes ☐ No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?		☒ Yes ☐ No

2. Project Information

2a. Name of project:	Replacement of Bridge 19 over the Pasquotank River
2b. County:	Pasquotank and Camden
2c. Nearest municipality / town:	Elizabeth City
2d. Subdivision name:	*not applicable*
2e. NCDOT only, T.I.P. or state project no:	U-4438

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	*not applicable*
3c. Responsible Party (for LLC i f applicable):	*not applicable*
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 431-6762
3g. Fax no.:	(919) 431-2002
3h. Email address:	crivenbark@ncdot.gov

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

B. Project Information and Prior Project History		
1. Property Identification		
1a. Property identification no. (tax PIN or parcel ID):	*not applicable*	
1b. Site coordinates (in decimal degrees):	Latitude: 36.301301 (DD.DDDDDD)	Longitude: - 76.218429 (-DD.DDDDDD)
1c. Property size:	7.07 acres	
2. Surface Waters		
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Pasquotank River	
2b. Water Quality Classification of nearest receiving water:	SC	
2c. River basin:	Pasquotank	
3. Project Description		
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Project area currents consists of public roadway and bascule bridge. Commercial properties exist west of the Pasquotank River with sparse residential properties at the eastern end of the project.		
3b. List the total estimated acreage of all existing wetlands on the property: 0.06		
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: Pasquotank River:100, Poindexter Creek (tributary to Pasquotank River):250		
3d. Explain the purpose of the proposed project: To make improves to reinforce and reconstruct the roadway surface of East Elizabeth Street within the project area and replace Bridge No. 19, which is a structurally deficient and functionally obsolete bridge.		
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 876-foot bridge with a new bridge of the same length on the existing alignment, improvements to the roadway surface, replacing the fender system, and building a new tender house. Power, telephone and CATV utilities will be relocated via directional-bore. A power line from the tender house that operates the spans will be jetted in place along the Pasquotank River bottom. The stormwater collection system in the project area will be replaced including cleanout of the retention area, extention of existing pipes, and additional pump system. Traffic will be maintained onsite via the westbound bridge and existing roads. Standard road and bridge building equipment, such as trucks, dozers, cranes, and barges are likely to be used.		
4. Jurisdictional Determinations		
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments:	☒ Yes ☐ No ☐ Unknown	
4b. If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ☒ Final	
4c. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Kimley-Horn for NCDOT Other:	
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. Original JD: 04/06/2006, addendum 03/13/2008		
5. Project History		
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☒ Yes ☐ No ☐ Unknown	
5b. If yes, explain in detail according to "help file" instructions. A CAMA General permit was requested separately for utility work excluding the power line from the tender house that operates the spans will be jetted in place along the Pasquotank River bottom.		

6. Future Project Plans		
6a. Is this a phased project?	☐ Yes	☒ No
6b. If yes, explain.		

C. Proposed Impacts Inventory

1. Impacts Summary

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

☒ Wetlands ☒ Streams - tributaries ☐ Buffers

☐ Open Waters ☐ Pond Construction

2. Wetland Impacts

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

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
Site 4 ☒ P ☐ T	Fill	emergent	☐ Yes ☒ No	☒ Corps ☐ DWQ	0.01
Site 4 ☒ P ☐ T	Excavation	emergent	☐ Yes ☒ No	☒ Corps ☐ DWQ	0.01
				2g. **Total wetland impacts**	Perm 0.02 Temp X

2h. Comments: Bents will permanently impact 0.02 ac of wetlands. Bents for the temporary work bridge will temporarily impact 0.06 ac of wetlands. There will be 0.10 ac of hand clearing and <0.01 ac of temp fill in hand clearing area for erosion control devices.

3. Stream Impacts

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

3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 ☐ P ☒ T	fill	Poindexter Creek	☒ PER ☐ INT	☒ Corps ☐ DWQ	6 ft	0.01 ac
Site 1 ☒ P ☐ T	fill	Poindexter Creek	☒ PER ☐ INT	☒ Corps ☐ DWQ	8 ft	0.02 ac
Site 1 ☐ P ☒ T	excavation	Poindexter Creek (detention basin)	☒ PER ☐ INT	☒ Corps ☐ DWQ	75 ft	0.28 ac
Site 2 ☐ P ☒ T	excavation	Ut. Poindexter Creek	☒ PER ☐ INT	☒ Corps ☐ DWQ	5 ft	<0.01 ac
Site 3 ☒ P ☐ T	fill	Pasquotank River	☒ PER ☐ INT	☒ Corps ☐ DWQ	650 ft	<0.01 ac
Site 3 ☐ P ☒ T	fill	Pasquotank River	☒ PER ☐ INT	☒ Corps ☐ DWQ	650 ft	0.01 ac
					3h. **Total stream and tributary impacts**	0.03 ac Perm 0.30 ac Temp

3i. Comments: Bents will impact 0.03 ac of surface water. Bents for the temporary work bridge will temporarily impact 0.02 ac

of surface waters. 106 ft of piped Poindexter Creek will be opened (daylighted) via grass swales. 128 ft of new channel will be constructed via grass swales and 206 ft of new channel will be piped. The existing detention basin will be temporarily dewatered to allow for cleanout. Excess material from the cleanout will be disposed of in uplands.

4. Open Water Impacts

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

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 ☐ P ☐ T				
O2 ☐ P ☐ T				
O3 ☐ P ☐ T				
O4 ☐ P ☐ T				
			4f. Total open water impacts	0 Perm 0 Temp

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	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
	5f. Total							

5g. Comments:

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

6. Buffer Impacts (for DWQ)

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

6a. Project is in which protected basin?	☐ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	☐ Other:

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 ☐ P ☐ T			☐ Yes ☐ No		
B2 ☐ P ☐ T			☐ Yes ☐ No		
B3 ☐ P ☐ T			☐ Yes ☐ No		
			6h. **Total buffer impacts**		

6i. Comments:

D. Impact Justification and Mitigation

1. Avoidance and Minimization

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

The proposed bridge will be constructed on the same alignment. Traffic will be detoured on existing roads.

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

The majority of the utilities will be directionally bored, and an in-water work moratorium will be adhered to from Feb. 15 to June 15 to protect anadromous fish. Turbidity curtains will be utilized in the Pasquotank River as determined by the Engineer.

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
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Corps
2c. If yes, which mitigat ion option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation

3. Complete if Using a Mitigation Bank

3a. Name of Mitigation Bank: not applicable

3b. Credits Purchased (attach receipt and letter)	Type	Quantity

3c. Comments:

4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.	☐ Yes
4b. Stream mitigation requested:	linear feet
4c. If using stream mitigation, stream temperature:	☐ warm ☐ cool ☐ 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:

5. Complete if Using a Permittee Responsible Mitigation Plan

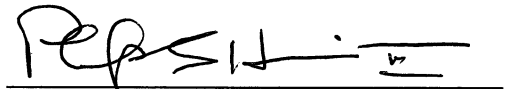
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.

6. **Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ**				
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?			☐ Yes ☒ No	
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.				
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
	6f. **Total buffer mitigation required:**			
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).				
6h. Comments:				

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

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

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	☒ Yes	☐ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☐ Yes	☒ No
5c. If yes, ind icate the USFWS Field Office you have contacted.	☐ Raleigh ☐ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NHP database, field surveys, and communication with NMFS staff (see FONSI)		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☒ Yes	☐ No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index (see FONSI)		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	☒ Yes	☐ No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation: Coordination between NCDOT and SHPO.		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	☒ Yes	☐ No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		

Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	10/20/2010 Date

DCM MP-1

APPLICATION for Major Development Permit

(last revised 12/27/06)

North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information

Business Name		Project Name (if applicable)		
Nc Department Of Transportation		U-4438		
Applicant 1: First Name	MI	Last Name		
Gregory		Thorpe		
Applicant 2: First Name	MI	Last Name		
If additional applicants, please attach an additional page(s) with names listed.				
Mailing Address		PO Box	City	State
1598 Mail Service Center			Raleigh	NC
ZIP	Country	Phone No.	FAX No.	
27699- 1598	USA	919 - 431 - 2000 ext.	919 - 431 - 2002	
Street Address *(if different from above)*		City	State	ZIP
4701 Atlantic Ave. Suite 116		Raleigh	NC	27604-
Email				
crivenbark@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	Phone No. 2	
		- - ext.	- - ext.	
FAX No.		Contractor #		

Street Address *(if different from above)*	City	State	ZIP -
Email			

<Form continues on back>

3. Project Location

County (can be multiple)	Street Address	State Rd. #
Pasquotank Camden	US158 (East Elizabeth Street) from US17 Business (N. Road Street) to East of Pasquotank River)	US 158

Subdivision Name	City	State	Zip
N/A	Elizabeth City	NC	27909 -

Phone No.	Lot No.(s) *(if many, attach additional page with list)*
- - ext.	, , , ,
a. In which NC river basin is the project located? Pasquotank River Basin	b. Name of body of water nearest to proposed project Poindexter Creek and Pasquotank River
c. Is the water body identified in (b) above, natural or manmade? ☒Natural ☐Manmade ☐Unknown	d. Name the closest major water body to the proposed project site. Albermarle Sound
e. Is proposed work within city limits or planning jurisdiction? ☒Yes ☐No	f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. Elizabeth City

4. Site Description

a. Total length of shoreline on the tract (ft.)	b. Size of entire tract (sq.ft.)
1,120 ft. (approximately 560 ft. on each shore)	Approximate Project Area = 435,600 sq. ft
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)* 3 ft ☐NHW or ☒NWL

e. Vegetation on tract
West of Pasquotank River-fescue, bermuda grass
East of Pasquotank River-cattail, arrow arum, lizard tail, jewelweed, wax myrtle, bald cypress

f. Man-made features and uses now on tract
Roadway, sidewalks, bridges and culverts

g. Identify and describe the existing land uses adjacent to the proposed project site.
commercial, residential, forested

h. How does local government zone the tract?	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) ☒Yes ☐No ☐NA
Central Business, Heavy Industrial, Causeway Mixed Use	

j. Is the proposed activity part of an urban waterfront redevelopment proposal? ☐Yes ☒No

k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. ☒Yes ☐No ☐NA

If yes, by whom? NCDOT Archaeology Group

l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property?	☒Yes ☐No ☐NA

<Form continues on next page>

m. (i) Are there wetlands on the site?	☒Yes ☐No
(ii) Are there coastal wetlands on the site?	☒Yes ☐No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? *(Attach documentation, if available)*	☒Yes ☐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.

CMP collection system in Elizabeth Street to common detention area controlled by hydraulic pumps.

5. Activities and Impacts

a. Will the project be for commercial, public, or private use? ☐Commercial ☒Public/Government ☐Private/Community

b. Give a brief description of purpose, use, and daily operations of the project when complete.

Roadway and bridge for vehicular transportation and pedestrian use. The bridge allows passage for water craft.

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.

Typical road and bridge construction techniques and equipment. Work may be accomplished through the use of a cranes, a temporary workbridge and/or barge.

d. List all development activities you propose.

Replacement/relocation of the existing power line for bridge operation. Replacement of of Bridge No. 19 on eastbound US 158 as well as improvements to US 158 from NC 34 (Water St.) to US 17 Business (Road St.) and portion of the adjacent stormwater drainage. The existing bridge tender's house will be removed and a new house will be constructed on Bridge No. 19.

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?	~10 ☐Sq.Ft or ☒Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	☒Yes ☐No ☐NA

h. Describe location and type of existing and proposed discharges to waters of the state.

New bents will be constructed in the Pasquotank River and adjacent wetlands. The bulkhead adjacent to the western end of the bridge will be expanded waterward. Temporary impacts will occur to a stormwater basin to allow for the removal of a existing structure. The existing storm collection system will be replaced which will result in fill in surface waters due to additional piping and removal of a portion of the flow in Poindexter Creek. However, this deversion should not remove the jurisdictional status of this reach.

i. Will wastewater or stormwater be discharged into a wetland?	☐Yes ☒No ☐NA
If yes, will this discharged water be of the same salinity as the receiving water?	☐Yes ☐No ☒NA

j. Is there any mitigation proposed? If yes, attach a mitigation proposal.	☐Yes ☒No ☐NA

<Form continues on back>

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	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 10/26/2010 Print Name PHILIP S. HARRIS III

Signature

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

Form DCM MP-2

EXCAVATION and FILL

(Except for bridges and culverts)

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

Describe below the purpose of proposed excavation and/or fill activities. **All values should be given in feet.**

	Access Channel (NLW or NWL)	Canal	Boat Basin	Boat Ramp	Rock Groin	Rock Breakwater	Other (excluding shoreline stabilization)
Length							
Width							
Avg. Existing Depth					NA	NA	
Final Project Depth					NA	NA	

1. EXCAVATION

☐ *This section not applicable*

a. Amount of material to be excavated from below NHW or NWL in cubic yards.

b. Type of material to be excavated.
Existing asphalt, embankment

c. (i) Does the area to be excavated include coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
☐CW ____ ☐SAV ____ ☐SB ____
☐WL ____ ☒None

(ii) Describe the purpose of the excavation in these areas:

d. High-ground excavation in cubic yards.

2. DISPOSAL OF EXCAVATED MATERIAL

☐ *This section not applicable*

a. Location of disposal area.
Uplands, Suitable offsite location. TBD by contractor

b. Dimensions of disposal area.
TBD by contractor

c. (i) Do you claim title to disposal area?
☐Yes ☒No ☐NA

(ii) If no, attach a letter granting permission from the owner.

d. (i) Will a disposal area be available for future maintenance?
☐Yes ☐No ☐NA

(ii) If yes, where?

e. (i) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
☐CW ____ ☐SAV ____ ☐SB ____
☐WL ____ ☒None

(ii) Describe the purpose of disposal in these areas:

f. (i) Does the disposal include any area in the water?
☐Yes ☒No ☐NA

(ii) If yes, how much water area is affected?

3. SHORELINE STABILIZATION

☐ *This section not applicable*

(If development is a wood groin, use MP-4 – Structures)

a. Type of shoreline stabilization:
☒Bulkhead ☐Riprap ☐Breakwater/Sill ☐Other: _____

b. Length: 37.5' (western shoreline of bridge)
Width: 8'

c. Average distance waterward of NHW or NWL: 8' FROM NWL

d. Maximum distance waterward of NHW or NWL: 18' (small area adjacent to existing bridge end bent and behind new bulkhead)

e. Type of stabilization material:
Marine Grade Sheet Piling Bulkhead

f. (i) Has there been shoreline erosion during preceding 12 months?
☐Yes ☐No ☒NA
(ii) If yes, state amount of erosion and source of erosion amount information.

g. Number of square feet of fill to be placed below water level.
Bulkhead backfill 423 sf (west of bridge) Riprap _____
Breakwater/Sill _____ Other _____

h. Type of fill material.
earthen fill and/or clean stone

i. Source of fill material.

4. OTHER FILL ACTIVITIES

☐ *This section not applicable*

(Excluding Shoreline Stabilization)

a. (i) Will fill material be brought to the site? ☐Yes ☒No ☐NA
If yes,
(ii) Amount of material to be placed in the water _____
(iii) Dimensions of fill area _____
(iv) Purpose of fill

b. (i) Will fill material be placed in coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
☐CW _____ ☐SAV _____ ☐SB _____
☒WL 463 ☐None
(ii) Describe the purpose of the fill in these areas:
outlet protection (riprap) for 18" pipe

5. GENERAL

a. How will excavated or fill material be kept on site and erosion controlled?
Uplands, standard erosion control practices

b. What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)?
Standard roadway construction equipment

c. (i) Will navigational aids be required as a result of the project? ☒Yes ☐No ☐NA
(ii) If yes, explain what type and how they will be implemented.
Navigational lighting will be installed.

d. (i) Will wetlands be crossed in transporting equipment to project site? ☒Yes ☐No ☐NA
(ii) If yes, explain steps that will be taken to avoid or minimize environmental impacts.
elevated temporary work bridge

10/20/2010
Date

U-4434
Project Name

PHILIP S. HARRIS III
Applicant Name

Applicant Signature

Form DCM MP-5

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1. BRIDGES

☐ *This section not applicable*

a. Is the proposed bridge:
☐Commercial ☒Public/Government ☐Private/Community

b. Water body to be crossed by bridge:
Pasquotank River

c. Type of bridge (construction material):
Prestressed Concrete Girders on Concrete Piles

d. Water depth at the proposed crossing at NLW or NWL:
37'

e. (i) Will proposed bridge replace an existing bridge? ☒Yes ☐No
If yes,
(ii) Length of existing bridge: 842.87'
(iii) Width of existing bridge: 27.18'
(iv) Navigation clearance underneath existing bridge: 22.39'
(v) Will all, or a part of, the existing bridge be removed?
(Explain) All

f. (i) Will proposed bridge replace an existing culvert? ☐Yes ☒No
If yes,
(ii) Length of existing culvert: _____
(iii) Width of existing culvert: _____
(iv) Height of the top of the existing culvert above the NHW or NWL: _____
(v) Will all, or a part of, the existing culvert be removed?
(Explain)

g. Length of proposed bridge: 841.5'

h. Width of proposed bridge: 43.55'

i. Will the proposed bridge affect existing water flow? ☐Yes ☒No
If yes, explain:

j. Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? ☐Yes ☒No
If yes, explain:

k. Navigation clearance underneath proposed bridge: 154' span bascule bridge

l. Have you contacted the U.S. Coast Guard concerning their approval? ☒Yes ☐No
If yes, explain: A USCG permit application was submitted on 5/3/2010. A permit not been issued until the CAMA permit is issued.

m. Will the proposed bridge cross wetlands containing no navigable waters? ☐Yes ☒No
If yes, explain:

n. Height of proposed bridge above wetlands: 3.69' to 0'

2. CULVERTS

☐ *This section not applicable*

a. Number of culverts proposed: 2

b. Water body in which the culvert is to be placed:
Poindexter Creek

< Form continues on back>

c. Type of culvert (construction material):
Aluminum

d. (i) Will proposed culvert replace an existing bridge? ☐Yes ☒No

If yes,

(ii) Length of existing bridge: _____

(iii) Width of existing bridge: _____

(iv) Navigation clearance underneath existing bridge: _____

(v) Will all, or a part of, the existing bridge be removed? (Explain)

e. (i) Will proposed culvert replace an existing culvert? ☒Yes ☐No

If yes,

(ii) Length of existing culvert(s): 21.4'/47.5' (MLK rd/Poindexter Rd, typ)

(iii) Width of existing culvert(s): 4.5'/6.5'

(iv) Height of the top of the existing culvert above the NHW or NWL: 4.30' above NWL

(v) Will all, or a part of, the existing culvert be removed? (Explain) yes

f. Length of proposed culvert: 72'/205'

g. Width of proposed culvert: 9'-7"

h. Height of the top of the proposed culvert above the NHW or NWL.
3.22' above NWL

i. Depth of culvert to be buried below existing bottom contour.
1'

j. Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? ☐Yes ☒No

If yes, explain:

k. Will the proposed culvert affect existing water flow? ☐Yes ☒No

If yes, explain:

3. EXCAVATION and FILL

☐*This section not applicable*

a. (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? ☒Yes ☐No

If yes,

(ii) Avg. length of area to be excavated: 72'/205'

(iii) Avg. width of area to be excavated: 12'

(iv) Avg. depth of area to be excavated: 2.8'/3.2'

(v) Amount of material to be excavated in cubic yards: 90/292

b. (i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

☐CW _____ ☐SAV _____ ☐SB _____

☐WL _____ ☒None

(ii) Describe the purpose of the excavation in these areas:

c. (i) Will the placement of the proposed bridge or culvert require any high-ground excavation? ☒Yes ☐No

If yes,

(ii) Avg. length of area to be excavated: 72'/205'

(iii) Avg. width of area to be excavated: 12'

(iv) Avg. depth of area to be excavated: 3.8'/4.6'

(v) Amount of material to be excavated in cubic yards: 122/420

d. If the placement of the bridge or culvert involves any excavation, please complete the following:

(i) Location of the spoil disposal area: Uplands, suitable offsite location, TBD by contractor

(ii) Dimensions of the spoil disposal area: TBD by contractor

(iii) Do you claim title to the disposal area? ☐Yes ☒No *(If no, attach a letter granting permission from the owner.)*

(iv) Will the disposal area be available for future maintenance? ☐Yes ☐No

(v) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAVs), other wetlands (WL), or shell bottom (SB)?

☐CW ☐SAV ☐WL ☐SB ☒None

If any boxes are checked, give dimensions if different from (ii) above.

(vi) Does the disposal area include any area below the NHW or NWL? ? ☐Yes ☒No

If yes, give dimensions if different from (ii) above.

e. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item **d** above) to be placed below NHW or NWL? ☒Yes ☐No

If yes,

(ii) Avg. length of area to be filled: 37.5'

(iii) Avg. width of area to be filled: 8'

(iv) Purpose of fill: Fill behind new vertical bulkhead in front of western endbent of bridge.

2 bascule piers: 43'-3" (measured along -L-) and 59'-0" (perpendicular to -L-) All other bent caps are 3'-6" (along -L-), 12 caps are 39'-8" and 1 cap is 54'-8" (perpendicular to -L-).

f. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item **d** above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

☐CW _____ ☐SAV _____ ☐SB _____

☒WL 463 ☐None

(ii) Describe the purpose of the excavation in these areas:

g. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item **d** above) to be placed on high-ground? ☐Yes ☒No

If yes,

(ii) Avg. length of area to be filled: _____

(iii) Avg. width of area to be filled: _____

(iv) Purpose of fill:

4. GENERAL

a. Will the proposed project require the relocation of any existing utility lines? ☒Yes ☐No

If yes, explain: The majority of the utility relocations have been requested via CAMA general permit application. The replacement/relocation of the existing power line for bridge operation is being requested with this application.

If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

b. Will the proposed project require the construction of any temporary detour structures? ☐Yes ☒No

If yes, explain:

< Form continues on back>

c. Will the proposed project require any work channels? ☐Yes ☒No

If yes, complete Form DCM-MP-2.

d. How will excavated or fill material be kept on site and erosion controlled?

Uplands standard erosion control

e. What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?

Standard roadway and bridge construction equipment. Cranes, bulldozers, and a barge may be utilized during construction

f. Will wetlands be crossed in transporting equipment to project site? ☒Yes ☐No

If yes, explain steps that will be taken to avoid or minimize environmental impacts.

Elevated temporary work bridge

g. Will the placement of the proposed bridge or culvert require any shoreline stabilization? ☒Yes ☐No

If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

10/20/2010

Date

U-4434

Project Name

PHILIP S. HARRIS III

Applicant Name

Applicant Signature

North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

Version 1

General Project Information

Project No.:	U-4438		**Date:**	17-Jul-10		
City/Town:	Elizabeth City		**Designer:**			
County(ies):	Pasquotank County	Camden County	**Project Manager:**	Dan Robinson		
River Basin(s):	**Pasquotank**		**CAMA County?**	yes	**TVA County?**	no
Primary Receiving Water:	Pasquotank River		**NCDWQ Stream Index:**			
NCDWQ Surface Water Classification for Primary Receiving Water		**Primary:**	Class SC			
		Supplemental:				
Other Stream Classification:						
303(d) Stream?:	no	**Type(s) of Impairment:**				
State Stormwater Permit Required?	yes	**If yes, why?:**	Project requires an Erosion and Sediment Control Plan and is in a coastal county			
Could the Project Impact Threatened or Endangered Species?			no			
Description:						
Anadromous Fish Present?	**yes**					
Description:	February 15 - June 15 Moratorium for bridge construction					
Buffer Rules in Effect?	no		**Buffer Rules:**			

Existing Site

Description of Existing Project Area:	0.606 of Roadway and Structure (0.447 mi 4 lane with c&g and sidewalk. Roadway on timber piers, 0.159 mi of two lane Structure across Pasquotank River)
Average Daily Traffic:	12,900 VPD
Existing Cross Section:	in kind replacement 2 land curb and gutter
Surrounding Land Use:	Urban
General Comments:	

Project Project

Description of Proposed Project:	US 158 (East Elizabeth Street) from US 17 Business (North Road Street) to East of Pasquotank River, demolish and replace road, c&g and sidewalk in kind, replacement of storm collection system along road, and improvements to detention basin north of road)		
Average Daily Traffic:	12,900 VPD		
Proposed Cross-Section:			
Interchange Modification:	no	**Median Type:**	none
Terminus:	-L- Sta. 16+00.00		
Terminus:	-L1- Sta. 24+84.00		
Project Length (lin. miles/feet):	0.606 lin. Miles / 3,200 feet	**Added Impervious Area (ac.):**	0.25
General Comments:	Additional impervious area due to proposed bridge wider than existing.		

North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

Version 1

Environmental Summary

Riparian Buffer and Jurisdictional Stream Impacts and Associated BMPs

Station	Stream Name	Stream Type	Jurisdict. Stream	Buffer?	Classific-ation?	Proposed Structure	BMP Type	Checklist Complete?	DA (ac.)	Q_2 (ft^3/s)	Q_{10} (ft^3/s)	WQv^c (ft^3/s)
16+31.22 -L1-	Pasquotank River	Perennial	TNW		Class SC	Prestressed Conc. Bridge w/ Bascule Housings, OAL=841.5'			185,000		Tidal	N/A
11+03 -Y7-	Poindexter Creek	Perennial	RPW		Class C	OAL=205', 9'-7"x6'-6" Aluminum Arch Culvert with Headwalls	wet detention basin		210		200	N/A
20+25.66 -L1-		N/A				Preformed Scour Hole	preformed scour hole		0.4		2.3	N/A

General Comments:

Stream Relocation

Station	Stream Name	Stream Length (ft)	Additional Information
-L- 27+92 (LT) TO	Poindexter Creek	170	Stream Improvements (removal of elevated concrete slab, etc in existing channel)
-L- 29+50 (LT)			
-L- 29+50 (LT) TO	Poindexter Creek	135	12' base with 2:1 side slopes
-L- 30+85 (LT)			
-L- 30+85 (LT) TO	Poindexter Creek	205	9'-7"x6'-6" Aluminum Arch Culvert
-L- 32+40 (LT)			

General Comments:

Jurisdictional Wetlands

Station	Type of Impact	Minimization of Impact
18+30 to 20+19 -L1-	Proposed Internal Bridge Bents (5)	Spanning Wetlands
General Comments:		

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

October 20, 2010

City of Elizabeth City
Attn: Rich Olsen
PO Box 347
Elizabeth City, NC 27909

Dear Landowner:

The North Carolina Department of Transportation is planning improvements to US 158 from NC 34 (Waters St.) to US 17 Business (Road St.) including the replacement of Bridge No. 19 over the Pasquotank River in Pasquotank and Camden Counties. The project will replace the existing 846-foot bridge, which is structurally deficient and functionally obsolete, with a new structure of the same length. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A permit application, vicinity map, and site drawings are enclosed for your review. *Please note that this proposed work is in addition to the utility work proposal you received several weeks ago.*

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have **no** objections to the proposal, please return the form with your response within 30 days to this office. If you **do** have objections to the project, please forward your comments to:

Mr. Stephen Lane
N.C. Division of Coastal Management
400 Commerce Ave.
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

for Gregory J. Thorpe, Ph.D.,
Environmental Management Director, PDEA

Enclosures

cc: Stephen Lane, NCDCM
File U-4438

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

TELEPHONE: 919-431-2000
FAX: 919-431-2001
WEBSITE: WWW.NCDOT.ORG

LOCATION:
ENVIRONMENTAL RESOURCES CENTER
4701 ATLANTIC AVENUE, STE. 116
RALEIGH, NC 27604

ADJACENT RIPARIAN LANDOWNER STATEMENT

Pasquotank and Camden Counties:
Replace Bridge No. 19 over the Pasquotank River
NCDOT TIP U-4438

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

I, _____ , am an adjacent riparian property owner and am aware of the North Carolina Department of Transportation's plans for replacing Bridge No. 19 on eastbound US 158 over the Pasquotank River in Pasquotank and Camden Counties, North Carolina. I am further aware that this work will occur in one or more Areas of Environmental Concern and therefore will require authorization from the Division of Coastal Management in accordance with the Coastal Area Management Act (CAMA).

_____ I have no objection to the project as presently proposed and hereby waive that right of objection as provided in General Statute 113-229.

_____ I have objections to the project as presently proposed and my comments are attached.

_____ _____
Signature of Adjacent Riparian Landowner Date

_____
Phone Number with Area Code

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

October 20, 2010

Calvin Lee & Marion Gutman
1 Gardner Pointe
Elizabeth City, NC 27909

Dear Landowner:

The North Carolina Department of Transportation is planning improvements to US 158 from NC 34 (Waters St.) to US 17 Business (Road St.) including the replacement of Bridge No. 19 over the Pasquotank River in Pasquotank and Camden Counties. The project will replace the existing 846-foot bridge, which is structurally deficient and functionally obsolete, with a new structure of the same length. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A permit application, vicinity map, and site drawings are enclosed for your review. *Please note that this proposed work is in addition to the utility work proposal you received several weeks ago.*

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have **no** objections to the proposal, please return the form with your response within 30 days to this office. If you **do** have objections to the project, please forward your comments to:

Mr. Stephen Lane
N.C. Division of Coastal Management
400 Commerce Ave.
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

for Gregory J. Thorpe, Ph.D.,
Environmental Management Director, PDEA

Enclosures

cc: Stephen Lane, NCDCM
File U-4438

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

TELEPHONE: 919-431-2000
FAX: 919-431-2001
WEBSITE: WWW.NCDOT.ORG

LOCATION:
ENVIRONMENTAL RESOURCES CENTER
4701 ATLANTIC AVENUE, STE. 116
RALEIGH, NC 27604

ADJACENT RIPARIAN LANDOWNER STATEMENT

Pasquotank and Camden Counties:
Replace Bridge No. 19 over the Pasquotank River
NCDOT TIP U-4438

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

I, _____ , am an adjacent riparian property owner and am aware of the North Carolina Department of Transportation's plans for replacing Bridge No. 19 on eastbound US 158 over the Pasquotank River in Pasquotank and Camden Counties, North Carolina. I am further aware that this work will occur in one or more Areas of Environmental Concern and therefore will require authorization from the Division of Coastal Management in accordance with the Coastal Area Management Act (CAMA).

_____ I have no objection to the project as presently proposed and hereby waive that right of objection as provided in General Statute 113-229.

_____ I have objections to the project as presently proposed and my comments are attached.

_____ _____
Signature of Adjacent Riparian Landowner Date

_____
Phone Number with Area Code

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

October 20, 2010

Jennette Fruit and Produce Co. Inc.
PO Box 608
Elizabeth City, NC 27909

Dear Landowner:

The North Carolina Department of Transportation is planning improvements to US 158 from NC 34 (Waters St.) to US 17 Business (Road St.) including the replacement of Bridge No. 19 over the Pasquotank River in Pasquotank and Camden Counties. The project will replace the existing 846-foot bridge, which is structurally deficient and functionally obsolete, with a new structure of the same length. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A permit application, vicinity map, and site drawings are enclosed for your review. *Please note that this proposed work is in addition to the utility work proposal you received several weeks ago.*

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have **no** objections to the proposal, please return the form with your response within 30 days to this office. If you **do** have objections to the project, please forward your comments to:

Mr. Stephen Lane
N.C. Division of Coastal Management
400 Commerce Ave.
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

for Gregory J. Thorpe, Ph.D.,
Environmental Management Director, PDEA

Enclosures

cc: Stephen Lane, NCDCM
File U-4438

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

TELEPHONE: 919-431-2000
FAX: 919-431-2001
WEBSITE: WWW.NCDOT.ORG

LOCATION:
ENVIRONMENTAL RESOURCES CENTER
4701 ATLANTIC AVENUE, STE. 116
RALEIGH, NC 27604

ADJACENT RIPARIAN LANDOWNER STATEMENT

Pasquotank and Camden Counties:
Replace Bridge No. 19 over the Pasquotank River
NCDOT TIP U-4438

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

I, _____ , am an adjacent riparian property owner and am aware of the North Carolina Department of Transportation's plans for replacing Bridge No. 19 on eastbound US 158 over the Pasquotank River in Pasquotank and Camden Counties, North Carolina. I am further aware that this work will occur in one or more Areas of Environmental Concern and therefore will require authorization from the Division of Coastal Management in accordance with the Coastal Area Management Act (CAMA).

_____ I have no objection to the project as presently proposed and hereby waive that right of objection as provided in General Statute 113-229.

_____ I have objections to the project as presently proposed and my comments are attached.

_____ _____

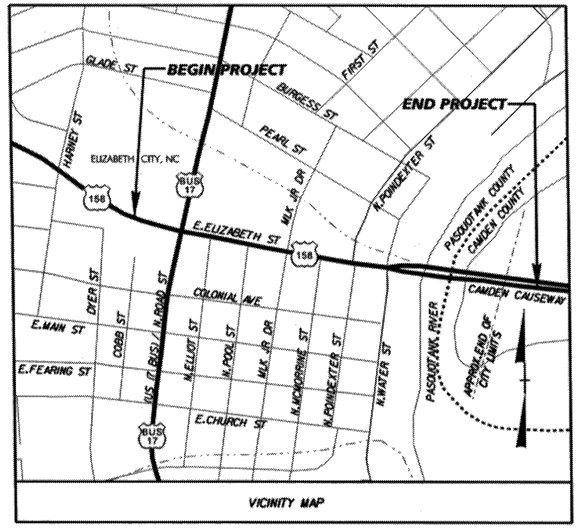
Signature of Adjacent Riparian Landowner Date

_____

Phone Number with Area Code

TIP PROJECT: U-4438

SEE SHEET 1-A FOR INDEX OF SHEETS
SEE SHEET 1-B FOR CONVENTIONAL PLAN SHEET SYMBOLS



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PASQUOTANK & CAMDEN COUNTIES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4438	1	

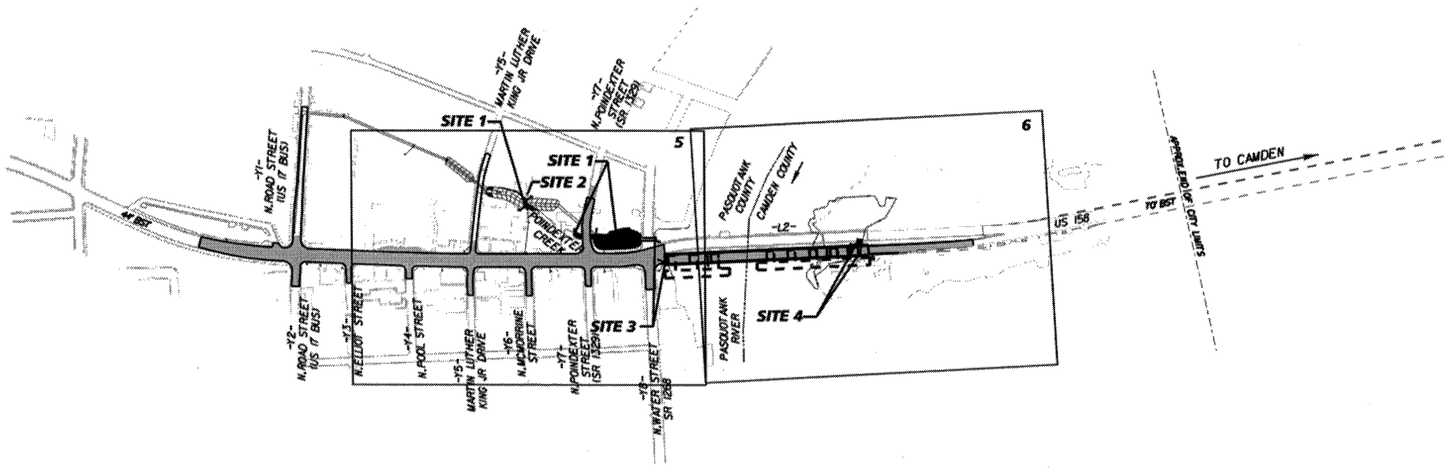
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
35742.1.1	STP-0158(31)	P.E.
35742.2.1	STP-0158(50)	R/W & UTILITIES

Permit Drawing
Sheet 1 of 8

LOCATION: *US 158 (EAST ELIZABETH STREET) FROM US 17 BUSINESS (NORTH ROAD STREET) TO EAST OF PASQUOTANK RIVER*

WETLAND & STREAM IMPACT PACKAGE

NC GRID NAD 83/95



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NCDOT CONTACT:
DOUG TAYLOR, P.E.
PROJECT ENGINEER
ROADWAY DESIGN UNIT

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF ELIZABETH CITY

CONTRACT:

GRAPHIC SCALES

PLANS: 100 50 0 100 200
PROFILE (HORIZONTAL): 50 25 0 50 100
PROFILE (VERTICAL): 10 5 0 10 20

DESIGN DATA

ADT 2011 = 12,900 VPD
ADT 2030 = 18,800 VPD
DHV = 10%
D = 55%
T = 20% *
V = 40 MPH
* (TTST 11% + DUAL 9%)

CLASS = URBAN ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4438 = 0.447 MILES
LENGTH STRUCTURE TIP PROJECT U-4438 = 0.159 MILES
TOTAL LENGTH TIP PROJECT U-4438 = 0.606 MILES

PLANS PREPARED FOR THE NCDOT BY: Kimley-Horn and Associates, Inc.

Post Office Box 33068
Raleigh, North Carolina 27636
PE NO. F-0102

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JULY 16, 2010

LETTING DATE: APRIL 19, 2011

JEFFREY W. MOORE, P.E.
PROJECT ENGINEER

J. JASON PACE, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

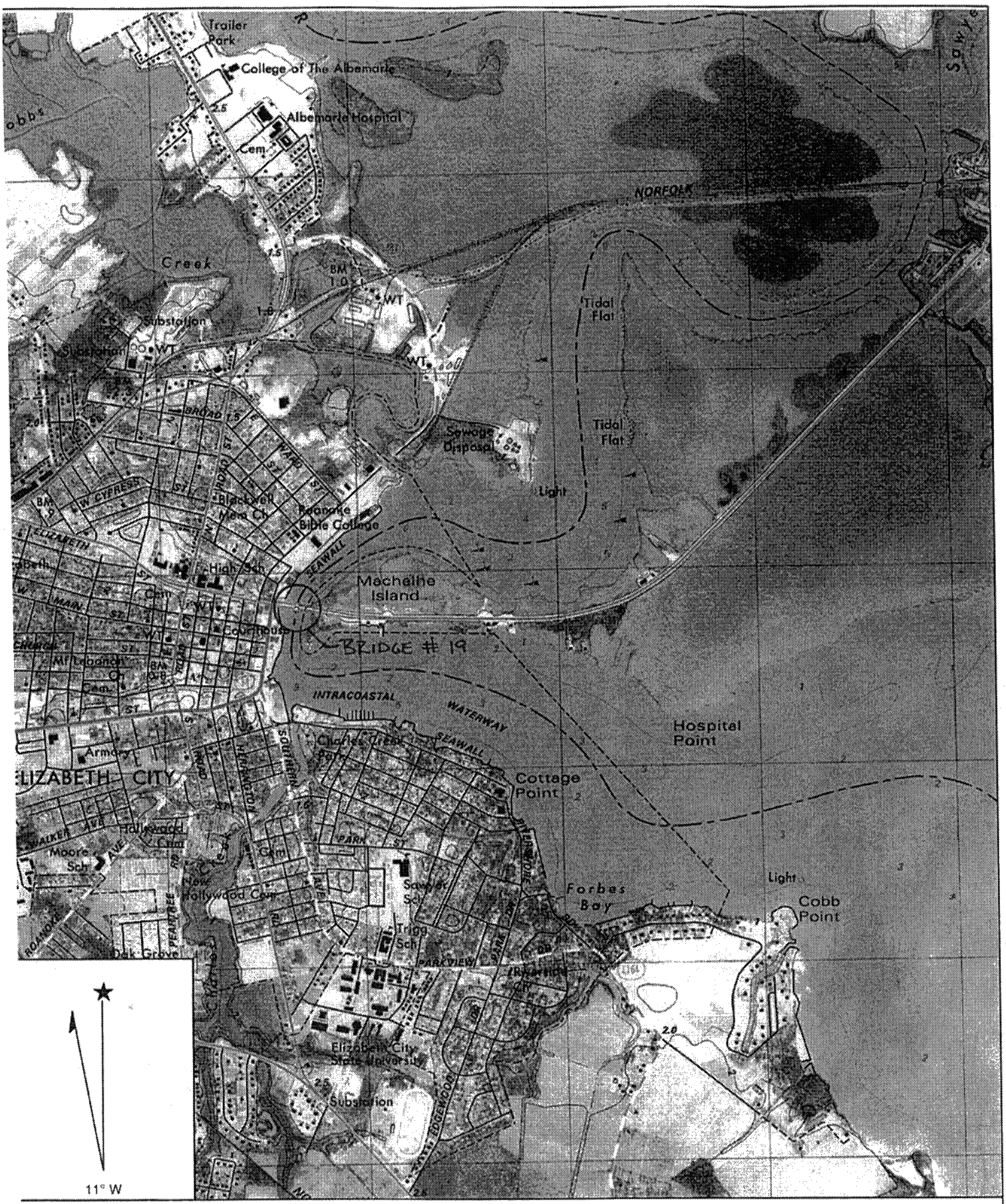
ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

P.E.
STATE HIGHWAY DESIGN ENGINEER

K:\RAL_Roadway\0110361421Hydraulics\Permits_Environmental\Drawings\u4438_hyd_prm_1sht.dgn
10/1/2010



Name: ELIZABETH CITY
Date: 9/18/2007
Scale: 1 inch equals 2000 feet

Permit Drawing
Sheet 2 of 8

Location: 036° 18' 04.2" N 076° 12' 21.4" W
Caption: Figure 3
U-4438
USGS Quad Map

PROJECT REFERENCE NO.	SHEET NO.
U-4438	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.
CONST. REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Permit Drawing Sheet 3 of 8

REVISIONS

MATCH LINE -Y9- STA 16+75 (SEE SHEET 7)

ERIN ANN RICHARDSON

PROPOSED 9'7"X6'6" ALUM ARCH CULVERT AND ALUM HEADWALLS
REMOVE PARKING SLAB AND SAWCUT PIERS TO GROUND ELEVATION. 12' BASE DITCH.
PROPOSED BEGINNING INVERT = -4.56.
GRADE TO DRAIN AT 0.10% SLOPE.
S.E.P. OF E.C., LLC

SITE 2

JS BEGINS STA. 18+95

BEGIN 12' BASE DITCH
PROP BEGINNING INVERT = -4.74.
GRADE TO DRAIN AT 0.10%

9'7"X6'6" ALUM ARCH CULVERT WITH ALUM HEADWALLS

60 TONS CLASS "B" RIPRAP & 60 SY FF

SITE 1

S 72° 28' 59.7" E
S 49° 05' 26.5" E
S 77° 34' 50.1" E
S 22° 56' 57.4" W
S 12° 27' 04.1" W
S 39° 36' 38.7" E
S 80° 11' 34.9" E
S 78° 37' 55.3" E
S 7° 42' 43.0" W
S 8° 11' 51.3" W
S 8° 06' 36.4" W
S 7° 43' 31.4" W
S 7° 16' 22.7" W
S 82° 36' 45.5" E
S 16° 38' 15.4" W
S 12° 42' 20.4" W

25+00
30+00
10+00
15+00

SANDERS COMPANY, INC. (33)
SANDERS COMPANY, INC. (34)
SANDERS SIGNS, INC. (35)

REMOVE EXISTING SYSTEM BETWEEN 557-558
TIE PROP. BULKHEAD TO PROP. ALUM CULVERT HEADWALL
TIE TO EX. CONC. WALL
TIE TO EXIST CONC WALL
REMOVE EXISTING 9'X5'6" CMPA
REM. EXIST 36" PIPE AND DI's
RETAIN EXIST DI

JENNETTE FRUIT & PRODUCE CO., INC. (41)
REMOVE EXISTING 2 @ 48" CMP'S. RETAIN EXISTING PUMP SYSTEM AND 24" OUTLET PIPES. CONSTRUCT NEW PUMP SYSTEM.
TOP OF BANK

SITE 3

PROPOSED PUMP PLATFORM

REMOVE EXISTING BULKHEAD AND CONSTRUCT NEW BULKHEAD TO TIE INTO EXISTING.
TEMPORARY WORK BRIDGE

NAD 83'95

HISTORIC PROPERTY

NORTHSIDE HISTORIC DISTRICT (NR)

NO OTHER ALLEYWAY

PASQUOTANK COUNTY (4)
DANIEL BIRCH (45)
NEW LIFE FAMILY CENTER (9)
NEW LIFE FAMILY CENTER (12)
NORTHSHORE INVESTMENT, L.L.C. (13)
RICHARD M. KING (6)
ELIZABETH CITY (7)
HAZYL, LLC (10)
HAROLD L. TURNER etux (11)
CITY OF ELIZABETH CITY (8)
ELIZABETH CITY (29)
WARREN Z. MEADS (31)
LENNIE L. HUGHES ET UX (30)
PLUG, FILL & ABANDON
ELIZABETH CITY (42)
WAREHOUSE PROP OF ELIZ CITY, LLC (14)
GRACIE D. BERNARDO ET VIR (15)
JOSEPH HUDAK ET UX (16)
A. JOSH TUNNELL ET UX (17)
MANN CAPITAL PROPERTIES LIMITED, GARY T MANN ET AL (18)
VALUE MART, INC. (20)
WILLIAM MANN (20A)
WILLIAM THOMAS PHELPS (19)
CITY OF ELIZABETH CITY (21)

ELIZABETH CITY HISTORIC DISTRICT EXPANSION (NR)
ELIZABETH CITY HISTORIC DISTRICT (NR)

N. POOL STREET
MARTIN LUTHER KING JR DRIVE
N. MCMORRINE STREET
N. POINDEXTER STREET
N. WATER STREET SR 1268

MATCH LINE -L- STA 23+00 (SEE SHEET 4)
MATCH LINE -L- STA 13+50 (SEE SHEET 6)

50 25 0 50 100

DENOTES TEMPORARY IMPACTS IN SURFACE WATER
DENOTES IMPACTS IN SURFACE WATER
DENOTES FILL IN WETLAND

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10/19/2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

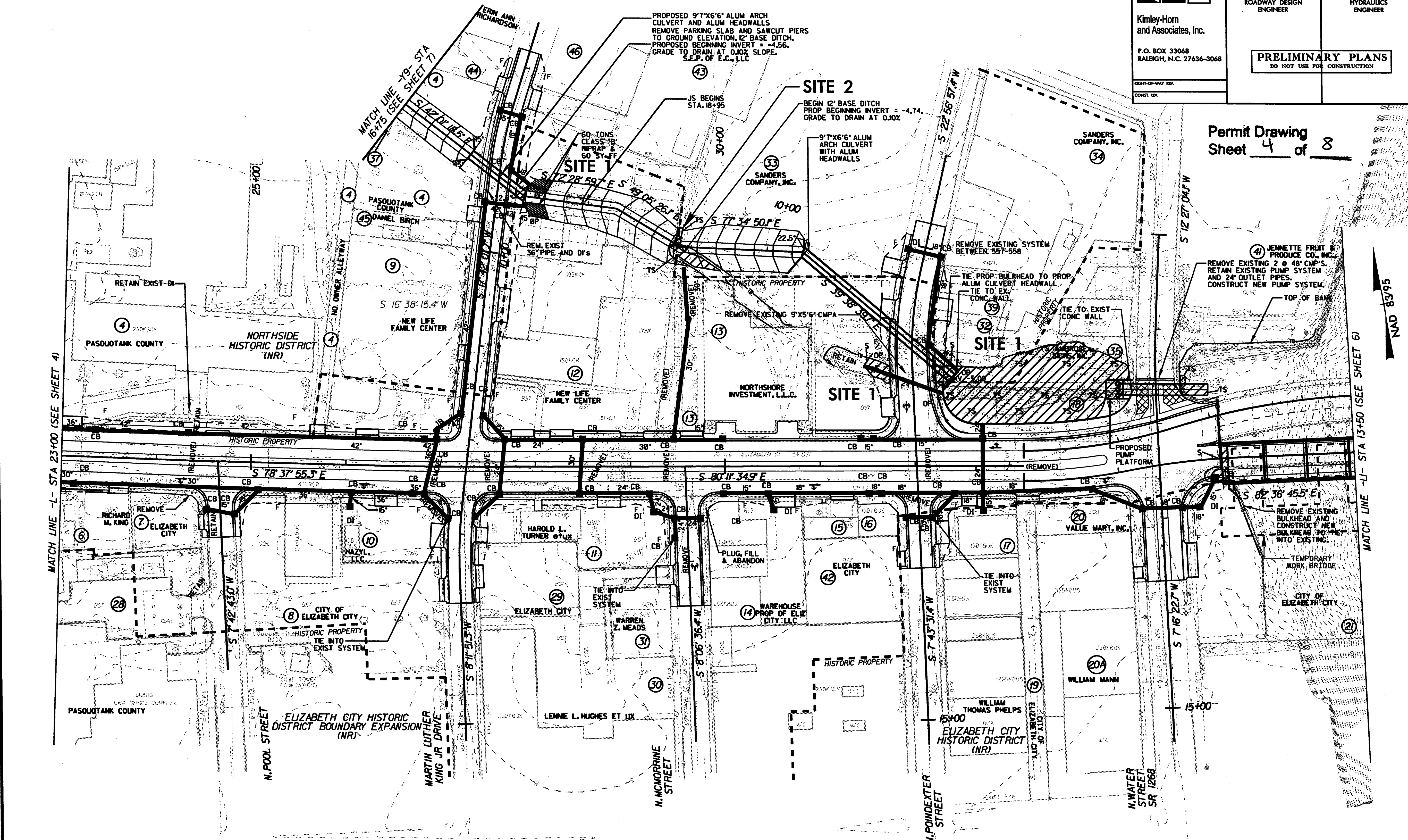
Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.
CONST. REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Permit Drawing
Sheet 4 of 8

REVISIONS



PROPOSED 9'7"X6'6" ALUM ARCH CULVERT AND ALUM HEADWALLS REMOVE PARKING SLAB AND SAWCUT PIERS TO GROUND ELEVATION. 12' BASE DITCH. PROPOSED BEGINNING INVERT = -4.56. GRADE TO DRAIN AT 0.10% SLOPE.
S.E.P. OF E.C., LLC
SITE 2
BEGIN 12' BASE DITCH PROP BEGINNING INVERT = -4.74. GRADE TO DRAIN AT 0.10%
9'7"X6'6" ALUM ARCH CULVERT WITH ALUM HEADWALLS
JS BEGINS STA. 18+95
60 TONS CLASS 'B' RIPRAP & 60 SY-FF
SITE 1
MATCH LINE -Y9- STA 16+75 (SEE SHEET 7)
ERIN ANN RICHARDSON
SANDERS COMPANY, INC.
REM. EXIST 36" PIPE AND DI's
REMOVE EXISTING SYSTEM BETWEEN 557-558
TIE PROP BULKHEAD TO PROP. ALUM CULVERT HEADWALL
TIE TO EX. CONC. WALL
REMOVE EXISTING 9'X5'6" CMPA
REMOVE EXISTING 2 @ 48" CMP'S. RETAIN EXISTING PUMP SYSTEM AND 24" OUTLET PIPES. CONSTRUCT NEW PUMP SYSTEM.
TOP OF BANK
JENNETTE FRUIT & PRODUCE CO., INC.
NAD 83/95
PASQUOTANK COUNTY
DANIEL BIRCH
NORTHSIDE HISTORIC DISTRICT (NR)
NEW LIFE FAMILY CENTER
NORTHSHORE INVESTMENT, L.L.C.
HISTORIC PROPERTY
RETAIN EXIST DI
PROPOSED PUMP PLATFORM
MATCH LINE -L- STA 23+00 (SEE SHEET 4)
MATCH LINE -U- STA 13+50 (SEE SHEET 6)
REMOVE EXISTING BULKHEAD AND CONSTRUCT NEW BULKHEAD TO TIE INTO EXISTING.
TEMPORARY WORK BRIDGE
CITY OF ELIZABETH CITY
RICHARD M. KING
ELIZABETH CITY
MAZYL, LLC
TIE INTO EXIST SYSTEM
HAROLD L. TURNER etux
PLUG, FILL & ABANDON
WAREHOUSE PROP OF ELIZ CITY LLC
WARREN Z. MEADS
VALUE MART, INC.
WILLIAM MANN
WILLIAM THOMAS PHELPS
LENNIE L. HUGHES ET UX
ELIZABETH CITY HISTORIC DISTRICT BOUNDARY EXPANSION (NR)
ELIZABETH CITY HISTORIC DISTRICT (NR)
N.POOL STREET
MARTIN LUTHER KING JR DRIVE
N.MCMORRINE STREET
N.POINDEXTER STREET
N.WATER STREET SR 1268

(15) GRACIE D. BERNARDO ET VIR
(16) JOSEPH HUDAK ET UX
(17) A. JOSH TUNNELL ET UX
(18) MANN CAPITAL PROPERTIES LIMITED, GARY T MANN ET AL

50 25 0 50 100

DENOTES TEMPORARY IMPACTS IN SURFACE WATER
DENOTES IMPACTS IN SURFACE WATER
DENOTES FILL IN WETLAND

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10/19/2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.
CONST. REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Permit Drawing
Sheet 5 of 8

REVISIONS

MATCH LINE (SEE SHEET 7)

MATCH LINE -U- STA 13+50 (SEE SHEET 5)

15+00 (-U-)

20+00 (-U-)

25+00 (-U-)

NAD 83/95

CITY OF ELIZABETH CITY

EDGE OF WATER

DRJ DEVELOPMENT CORP.
25

CB BUILT BY OTHERS

CONSTRUCT NEW VALLEY GUTTER IN DRIVEWAY ALONG CURBLINE

SITE 4

SITE 4

REMOVE AND RESET TO TIE INTO PROP CB

SYSTEM BY OTHERS

REMOVE SYSTEM CONSTRUCTED UNDER R-2414A

CLASS I RIP RAP
EST 1.8 TONS
EST 6.7 SY

S 82° 36' 45.5" E

S 82° 36' 45.5" E

N 88° 55' 39" E

-L2-

-U-

TEMPORARY WORK BRIDGE

TEMPORARY WORK BRIDGE

SITE 4

GARDNER POINT CONDOMINIUMS
23

CITY OF ELIZABETH CITY
27

MACHELHE COVE CONDOMINIUMS
26

HARBOR PLACE CONDOMINIUMS
24

CALVIN GUTMAN, JR.
22

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 1

50 25 0 50 100

DENOTES HAND CLEARING

DENOTES FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

K:\RAL_Roadway\011036\42-Hydraulics\Permits_Environmental\Drawings\u4438_hyd_prm_pshb06.dgn

10/19/2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.
CONST. REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Permit Drawing
Sheet 6 of 8

REVISIONS

MATCH LINE (SEE SHEET 7)

MATCH LINE -L1- STA 13+50 (SEE SHEET 5)

15+00 (-L1-)

20+00 (-L1-)

25+00 (-L1-)

NAD 83/95

CITY OF ELIZABETH CITY

EDGE OF WATER

SITE 4

S 82° 36' 45.5" E

CLASS I RIP RAP
EST 1.8 TONS
EST 6.7 SY

REMOVE AND RESET TO TIE INTO PROP CB

REMOVE SYSTEM CONSTRUCTED UNDER R-2414A

CB BUILT BY OTHERS

SYSTEM BY OTHERS

CONSTRUCT NEW VALLEY GUTTER IN DRIVEWAY ALONG CURBLINE

-L2-

N 88° 55' 39" E

-L1-

DRJ DEVELOPMENT CORP.
25

TEMPORARY WORK BRIDGE

TEMPORARY WORK BRIDGE

GARDNER POINT CONDOMINIUMS
23

SITE 4

22
CALVIN GUTMAN, JR.

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16.5 SY FF
EST 25 SY PSRM
SEE DETAIL 1

27
CITY OF ELIZABETH CITY

26
MACHELHE COVE CONDOMINIUMS

24
HARBOR PLACE CONDOMINIUMS

50 25 0 50 100

F/F DENOTES FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

10/19/2010

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	OWNER'S NAME	ADDRESS
(12)	New Life Family Center	400 E ELIZABETH STREET ELIZABETH CITY, NC 27909
(13)	North Shore Investments, L.L.C.	___ E ELIZABETH STREET ELIZABETH CITY, NC 27909
(18)	Mann Capital Properties Limited, Gary T Mann ET AL	601 E ELIZABETH STREET ELIZABETH CITY, NC 27909
(33)	Sanders Company, Inc.	___ N POINDEXTER STREET ELIZABETH CITY, NC 27909
(35)	Ambrose Signs, Inc.	405 N WATERS STREET ELIZABETH CITY, NC 27909

PROPERTY OWNER NAME AND ADDRESS U-4438

Permit Drawing
Sheet 7 of 8

NCDOT
DIVISION OF HIGHWAYS
PASQUOTANK & CAMDEN COUNTIES

PROJECT: U-4438
US 158 (E. ELIZABETH STREET) FROM US 17 BUSINESS (N. ROAD STREET) TO EAST OF PASQUOTANK RIVER

8/20/2010

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	(-Y9-) 18+95/20+02	Excavation										*see note 3
1	(-Y9-) 20+02/20+34	Excavation							0.01			
1	(-Y9-) 20+10/21+38	Excavation										*see note 3
1	(-Y9-) 21+37/23+43	Excavation										*see note 4
1	(-L-) 31+46/ 31+74 (LT)	Fill						0.01				
1	(-L-) 32+19/32+41 (LT)	Fill						0.01				
1	(-L-) 32+41/(-L1-) 11+29 (LT)	Excavation							0.28			
2	(-Y9-) 20+00/20+08 (LT)	Excavation							< 0.01			
3	(-L2-) 11+82/ 11+85(LT)	Fill							0.01			
3	(-L1-) 11+97/12+10 (RT)	Fill						0.01				
4	(-L1-) 18+30/20+24 (RT)	Temp Work Bridge					0.10					
4	(-L1-) 20+04/20+31 (LT)	Fill	0.01									
4	(-L1-) 20+09/20+23	Excavation			0.01							
TOTALS:			0.01		0.01		0.10	0.03	0.30			

Note: 1. Proposed bents will have 0.03 AC of permanent impact to surface water and 0.02 AC of permanent impact to wetlands.

2. Proposed pump platform will have ≤ 0.01 AC of permanent impact to surface water.

3. Removal of existing bents will have 0.02 AC of temporary impact to surface water and 0.06 AC of temporary impact to wetlands.

4. 106 linear feet and 128 linear feet of existing piped and open channel relocated via swales.

5. Existing system relocated via 206 linear feet of pipe.

6. Temporary fill ≤ 0.01 AC will occur in hand clearing area for erosion control devices.

Permit Drawing
Sheet 8 of 8

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PASQUOTANK AND CAMDEN COUNTIES

WBS - 35742.1.1 (U-4438)

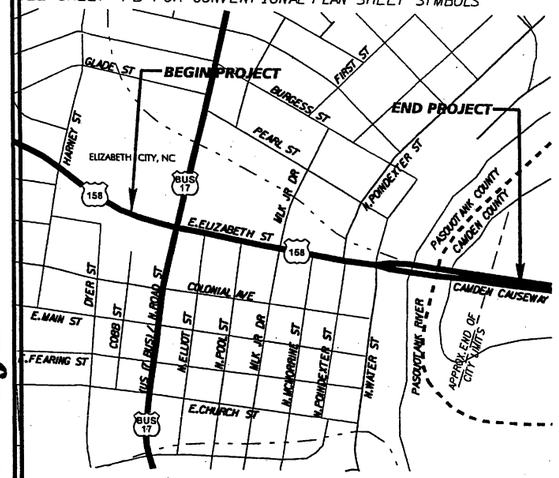
SHEET 10/19/2010

ATN Revised 3/31/05

09/08/99

TIP PROJECT:

SEE SHEET 1-A FOR INDEX OF SHEETS
SEE SHEET 1-B FOR CONVENTIONAL PLAN SHEET SYMBOLS



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
U-4438	SH-1

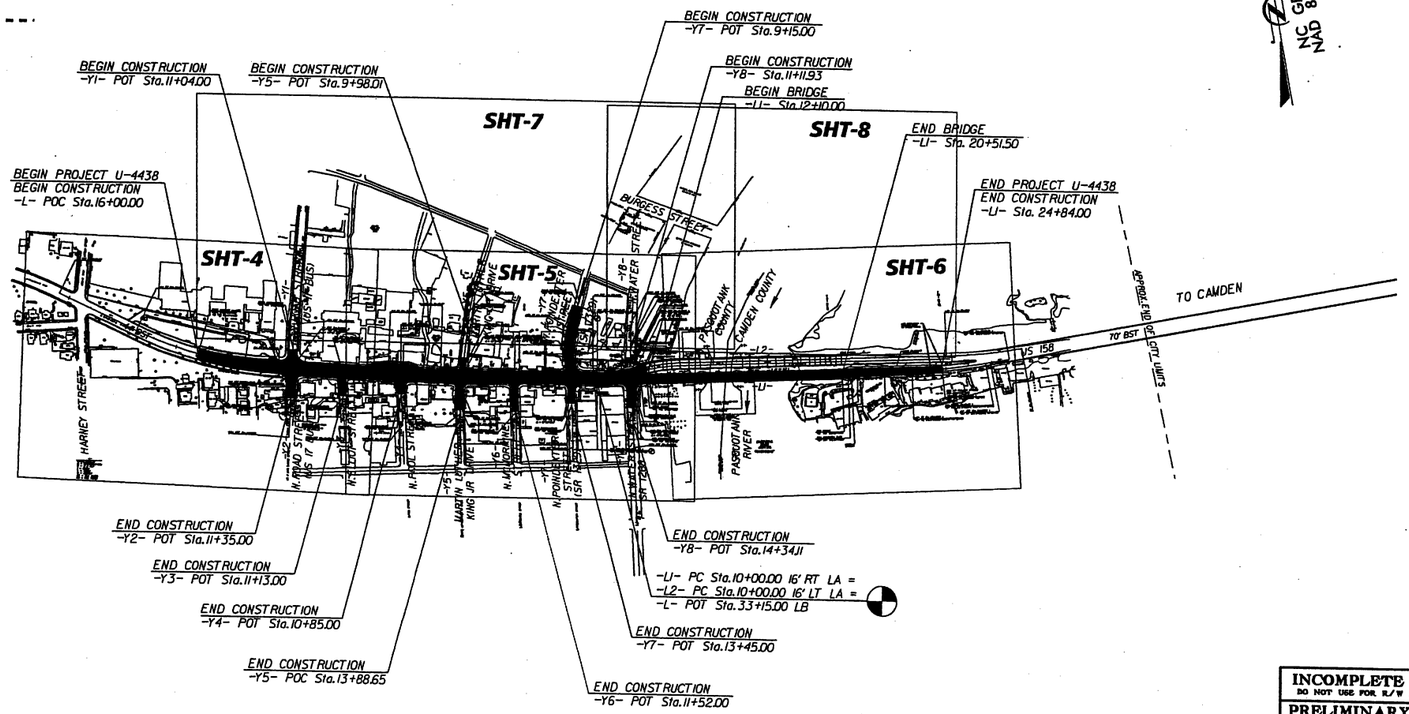
PASQUOTANK & CAMDEN COUNTIES
UTILITY CONSTRUCTION PLANS

Utility
Permit Drawing
Sheet 1 of 8
August 9, 2010

US 158 (EAST ELIZABETH STREET) FROM US 17 BUSINESS (NORTH ROAD STREET) TO EAST OF PASQUOTANK RIVER

UTILITY RELOCATION PERMIT DRAWING PLANS
NO IMPACTS

NOTE: PROPOSED POWER POLES
WILL BE JOINT-USE POLES WITH
TELEPHONE AND CATV



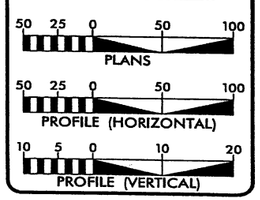
LEGEND

○	EXISTING POLE
⊙	POLE TO BE REMOVED
⊘	POLE TO BE INSTALLED
⊗	POLE TO BE REPLACED
⌖	METAL STREETLIGHT POLE AND FIXTURE TO INSTALL
△	EXISTING OVERHEAD TRANSFORMER TO WORK AS NOTED
◺ TX1	PADMOUNTED TRANSFORMER, SINGLE PHASE (SIZE AS INDICATED) TO INSTALL
———	EXISTING 7.2/12.47kv PRIMARY TO REMAIN
———	EXISTING 7.2/12.47kv PRIMARY TO REMOVE
— UP —	UNDERGROUND ELECTRICAL PRIMARY CONDUCTOR OR CONDUIT TO WORK AS NOTED
———	7.2/12.47kv OVERHEAD ELECTRICAL CONDUCTOR TO INSTALL, AS NOTED
———	SECONDARY TO BE REMOVED
———	SECONDARY TO WORK AS NOTED
— UG —	UNDERGROUND ELECTRICAL SECONDARY CONDUCTOR OR CONDUIT TO WORK AS NOTED
—SL—	1-2 INCH HDPE CONDUIT WITH ONE (1) NO. 2 UD TRIPLEX AND ONE (1) NO. 6 UD SINGLE FOR STREETLIGHTING, UNLESS OTHERWISE NOTED.
—••—	SCADA CABLE
•—	DOWN GUY AND ANCHOR
⬡ SP1	SECONDARY PEDESTAL TO INSTALL
⬡ SP1	SECONDARY PEDESTAL TO REMOVE
■ PC1	PRIMARY CABINET, SINGLE PHASE OR MULTI-PHASE TO INSTALL
■	SECONDARY HANDHOLE IN SIDEWALK FOR STREETLIGHTING
HH	ELECTRIC PRIMARY HANDHOLE
✿	TREE TO TRIM OR REMOVE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.	*DESCRIPTION*
SHT-1	*TITLE SHEET*
SHT-4 THRU SHT-8	*UTILITY CONSTRUCTION PLAN SHEETS*
SHT-9 THRU SHT-10	*PROFILE SHEETS*

WATER AND SEWER OWNERS ON PROJECT

(1) WATER...ELIZABETH CITY
(2) SANITARY SEWER...ELIZABETH CITY
(3) POWER...ELIZABETH CITY
(4) TELEPHONE...CENTURYLINK
(5) NATURAL GAS...PIEDMONT NATURAL GAS
(6) CABLE-TV...TIME-WARNER

SEAL

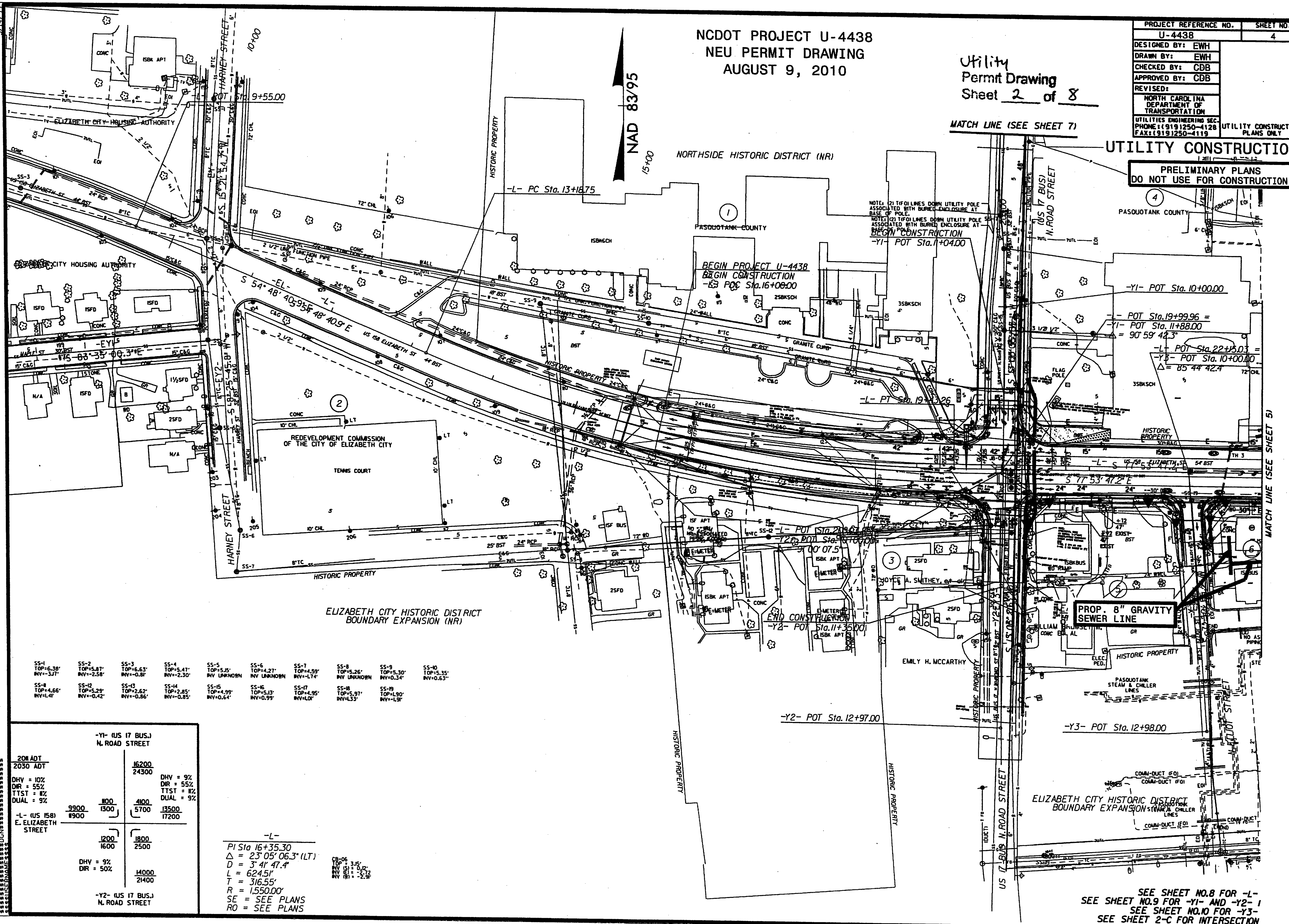
PREPARED IN THE OFFICE OF:

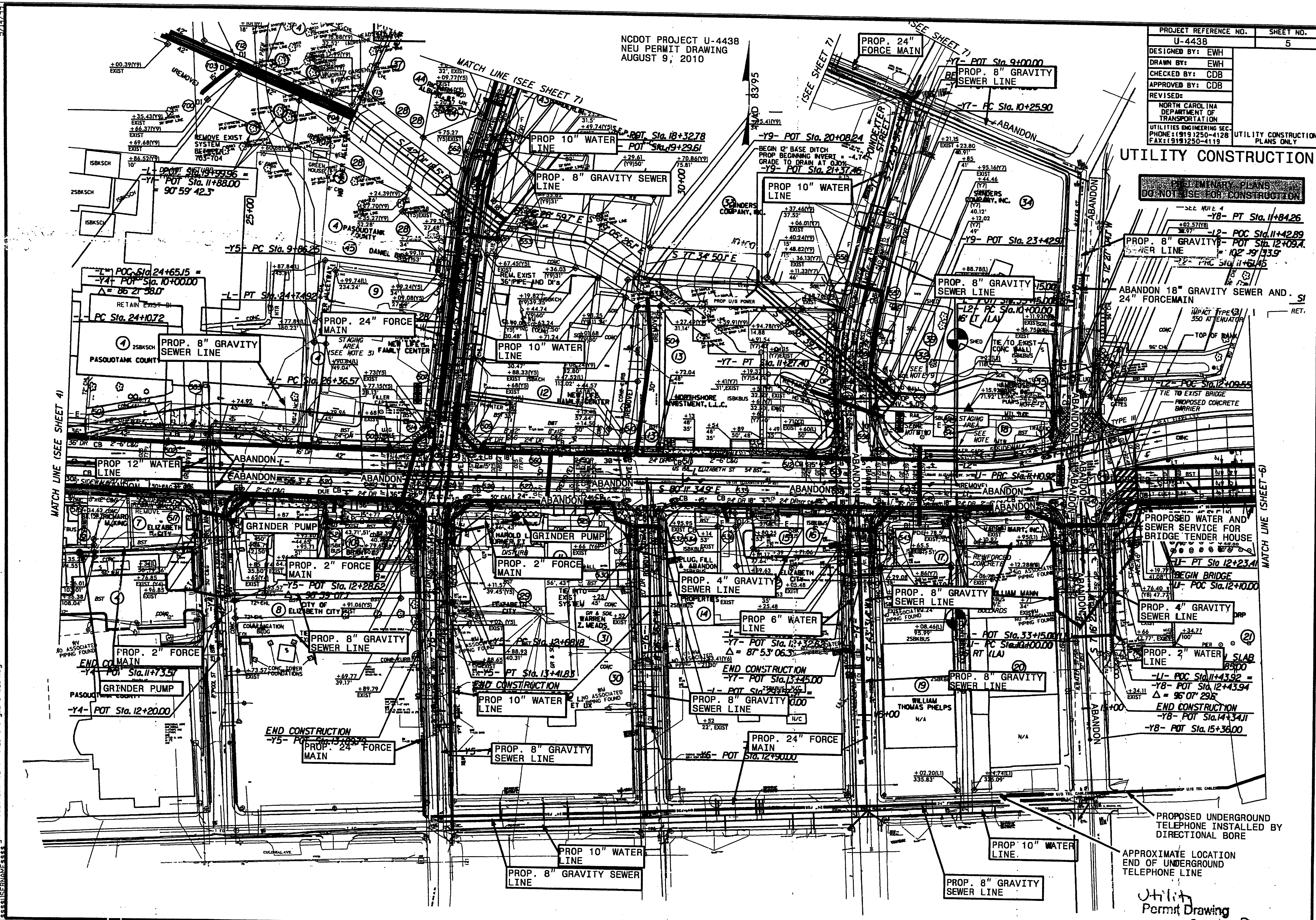
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION

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

Roger Worthington, P.E.	*UTILITIES SECTION ENGINEER*
Corey Bousquet, P.E.	*UTILITIES SQUAD LEADER PROJECT ENGINEER*
Eric Haugaard, P.E.	*UTILITIES PROJECT DESIGNER*

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


NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010
Utility Permit Drawing Sheet 2 of 8
PROJECT REFERENCE NO. U-4438
SHEET NO. 4
DESIGNED BY: EWH
DRAWN BY: EWH
CHECKED BY: CDB
APPROVED BY: CDB
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE:(919)250-4128 FAX:(919)250-4119
UTILITY CONSTRUCTION PLANS ONLY
UTILITY CONSTRUCTION
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION
MATCH LINE (SEE SHEET 7)
MATCH LINE (SEE SHEET 5)
NAD 83/95
NORTHSIDE HISTORIC DISTRICT (NR)
PASQUOTANK COUNTY
ELIZABETH CITY HOUSING AUTHORITY
REDEVELOPMENT COMMISSION OF THE CITY OF ELIZABETH CITY
TENNIS COURT
HARNEY STREET
US 158 ELIZABETH ST
US 17 BUS N. ROAD STREET
BEGIN PROJECT U-4438
BEGIN CONSTRUCTION -L- POC Sta.16+00.00
-L- PC Sta. 13+18.75
-L- PT Sta. 19+43.26
-Y1- POT Sta.11+04.00
-Y1- POT Sta. 10+00.00
-L- POT Sta.19+99.96 = -Y1- POT Sta. 11+88.00 Δ = 90° 59' 42.3"
-L- POT Sta.22+15.03 = -Y3- POT Sta. 10+00.00 Δ = 85° 44' 42.4"
S 54° 48' 40.9" E
S 77° 53' 41.2" E
END CONSTRUCTION -Y2- POT Sta.11+35.00
-Y2- POT Sta. 12+97.00
-Y3- POT Sta. 12+98.00
PROP. 8" GRAVITY SEWER LINE
HISTORIC PROPERTY
ELIZABETH CITY HISTORIC DISTRICT BOUNDARY EXPANSION (NR)
JOYCE A. SMITHEY
EMILY H. MCCARTHY
PASQUOTANK STEAM & CHILLER LINES
SS-1 TOP=6.38' INV=-3.17'
SS-2 TOP=5.87' INV=-2.58'
SS-3 TOP=6.63' INV=-0.81'
SS-4 TOP=5.47' INV=-2.30'
SS-5 TOP=5.15' INV UNKNOWN
SS-6 TOP=4.27' INV UNKNOWN
SS-7 TOP=4.59' INV=-1.74'
SS-8 TOP=5.26' INV UNKNOWN
SS-9 TOP=5.30' INV=0.34'
SS-10 TOP=5.35' INV=0.63'
SS-11 TOP=4.66' INV=1.41'
SS-12 TOP=5.29' INV=-0.42'
SS-13 TOP=2.62' INV=-0.86'
SS-14 TOP=2.85' INV=-0.85'
SS-15 TOP=4.99' INV=0.64'
SS-16 TOP=5.13' INV=0.99'
SS-17 TOP=4.95' INV=1.01'
SS-18 TOP=5.97' INV=1.33'
SS-19 TOP=1.90' INV=-1.91'
-Y1- (US 17 BUS.) N. ROAD STREET
2011 ADT 2030 ADT
DHV = 10% DIR = 55% TTST = 8% DUAL = 9%
DHV = 9% DIR = 55% TTST = 8% DUAL = 9%
-L- (US 158) E. ELIZABETH STREET
DHV = 9% DIR = 50%
-Y2- (US 17 BUS.) N. ROAD STREET
-L-
PI Sta 16+35.30
Δ = 23° 05' 06.3" (LT)
D = 3° 41' 47.4"
L = 624.51'
T = 316.55'
R = 1,550.00'
SE = SEE PLANS
RO = SEE PLANS
SEE SHEET NO.8 FOR -L-
SEE SHEET NO.9 FOR -Y1- AND -Y2-
SEE SHEET NO.10 FOR -Y3-
SEE SHEET 2-C FOR INTERSECTION

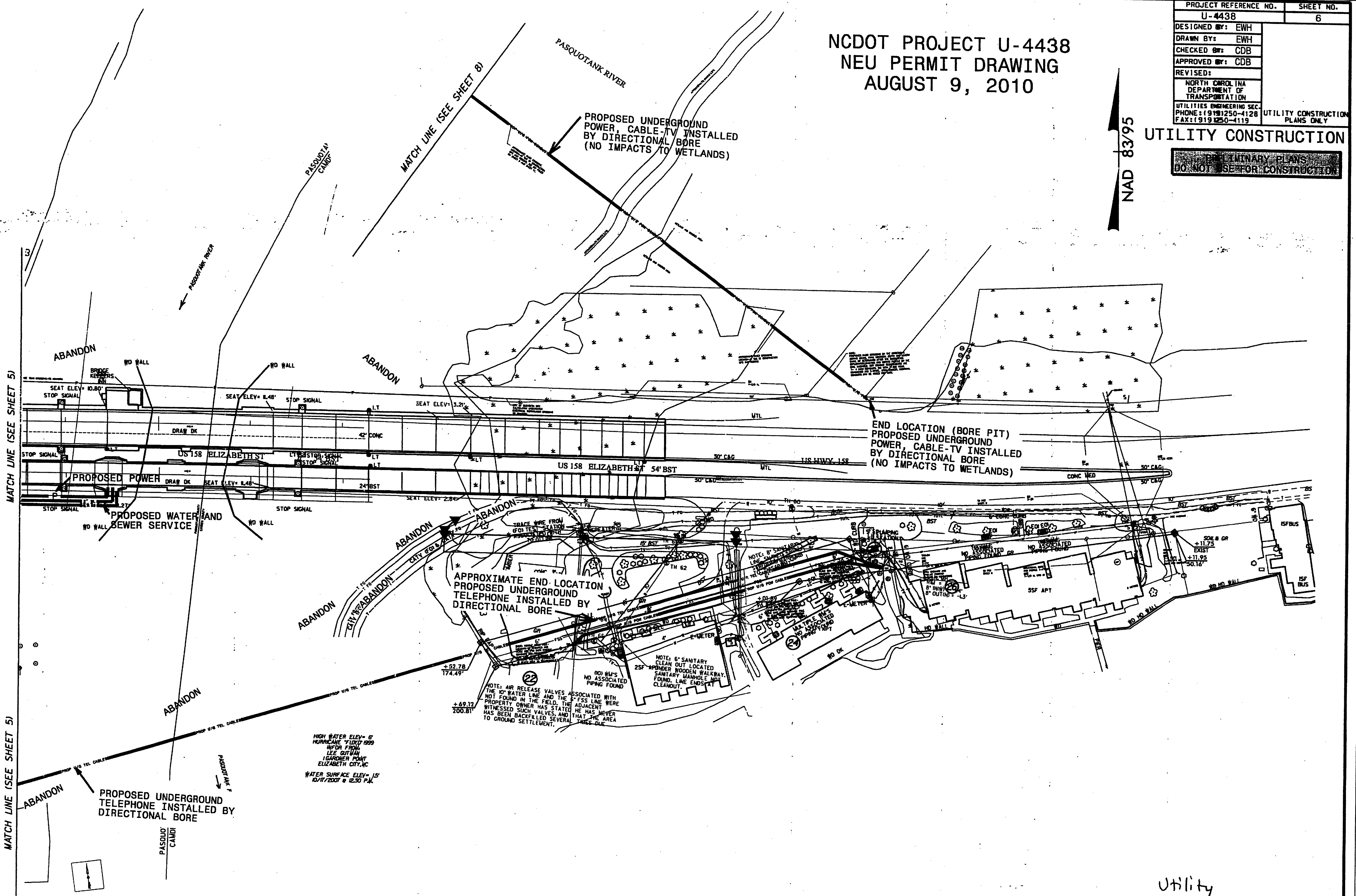

NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010
PROJECT REFERENCE NO. U-4438
SHEET NO. 5
DESIGNED BY: EWH
DRAWN BY: EWH
CHECKED BY: CDB
APPROVED BY: CDB
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919)250-4128
FAX: (919)250-4119
UTILITY CONSTRUCTION PLANS ONLY
UTILITY CONSTRUCTION
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION
MATCH LINE (SEE SHEET 7)
MATCH LINE (SEE SHEET 4)
MATCH LINE (SHEET 6)
PROP. 24" FORCE MAIN
PROP. 8" GRAVITY SEWER LINE
PROP 10" WATER LINE
PROP 12" WATER LINE
PROP. 2" FORCE MAIN
PROP. 4" GRAVITY SEWER LINE
PROP 6" WATER LINE
PROP. 2" WATER LINE
GRINDER PUMP
ABANDON
ABANDON 18" GRAVITY SEWER AND 24" FORCEMAIN
PROPOSED WATER AND SEWER SERVICE FOR BRIDGE TENDER HOUSE
PROPOSED UNDERGROUND TELEPHONE INSTALLED BY DIRECTIONAL BORE
APPROXIMATE LOCATION END OF UNDERGROUND TELEPHONE LINE
END CONSTRUCTION
PASQUOTANK COUNTY
CITY OF ELIZABETH CITY
NORTHSHORE INVESTMENT, L.L.C.
SANDERS COMPANY, INC.
WILLIAM THOMAS PHELPS
POINDEXTER STREET
Utility Permit Drawing
Sheet 3 of 8
27-SEP-2010 08:10

NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	6
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION



NAD 83/95
MATCH LINE (SEE SHEET 8)
MATCH LINE (SEE SHEET 5)
PASQUOTANK RIVER
PROPOSED UNDERGROUND POWER, CABLE-TV INSTALLED BY DIRECTIONAL BORE (NO IMPACTS TO WETLANDS)
END LOCATION (BORE PIT) PROPOSED UNDERGROUND POWER, CABLE-TV INSTALLED BY DIRECTIONAL BORE (NO IMPACTS TO WETLANDS)
APPROXIMATE END LOCATION PROPOSED UNDERGROUND TELEPHONE INSTALLED BY DIRECTIONAL BORE
PROPOSED UNDERGROUND TELEPHONE INSTALLED BY DIRECTIONAL BORE
PROPOSED POWER
PROPOSED WATER AND SEWER SERVICE
ABANDON
US 158 ELIZABETH ST
US HWY 158
STOP SIGNAL
WD WALL
BRIDGE KEEPERS
SEAT ELEV= 10.80'
SEAT ELEV= 8.48'
SEAT ELEV= 3.21'
SEAT ELEV= 2.84'
DRAW DK
42' CONC
24' BST
54' BST
NOTE: 6" SANITARY CLEAN OUT LOCATED UNDER WOODEN WALKWAY. SANITARY MANHOLE NOT FOUND. LINE ENDS AT CLEANOUT.
NOTE: AIR RELEASE VALVES ASSOCIATED WITH THE 10" WATER LINE AND THE 5" FSS LINE WERE NOT FOUND IN THE FIELD. THE ADJACENT PROPERTY OWNER HAS STATED HE HAS NEVER WITNESSED SUCH VALVES, AND THAT THE AREA HAS BEEN BACKFILLED SEVERAL TIMES DUE TO GROUND SETTLEMENT.
NO ASSOCIATED PIPING FOUND
+52.78 174.49'
+69.12 200.81'
HIGH WATER ELEV= 6' HURRICANE "FLOYD" 1999 INFOR FROM: LEE GUTMAN 1 GARDNER POINT ELIZABETH CITY, NC
WATER SURFACE ELEV= 1.5' 10/11/2007 @ 12:50 P.M.
3SF APT
ISFBUS

Utility Permit Drawing Sheet 4 of 8

5/14/99

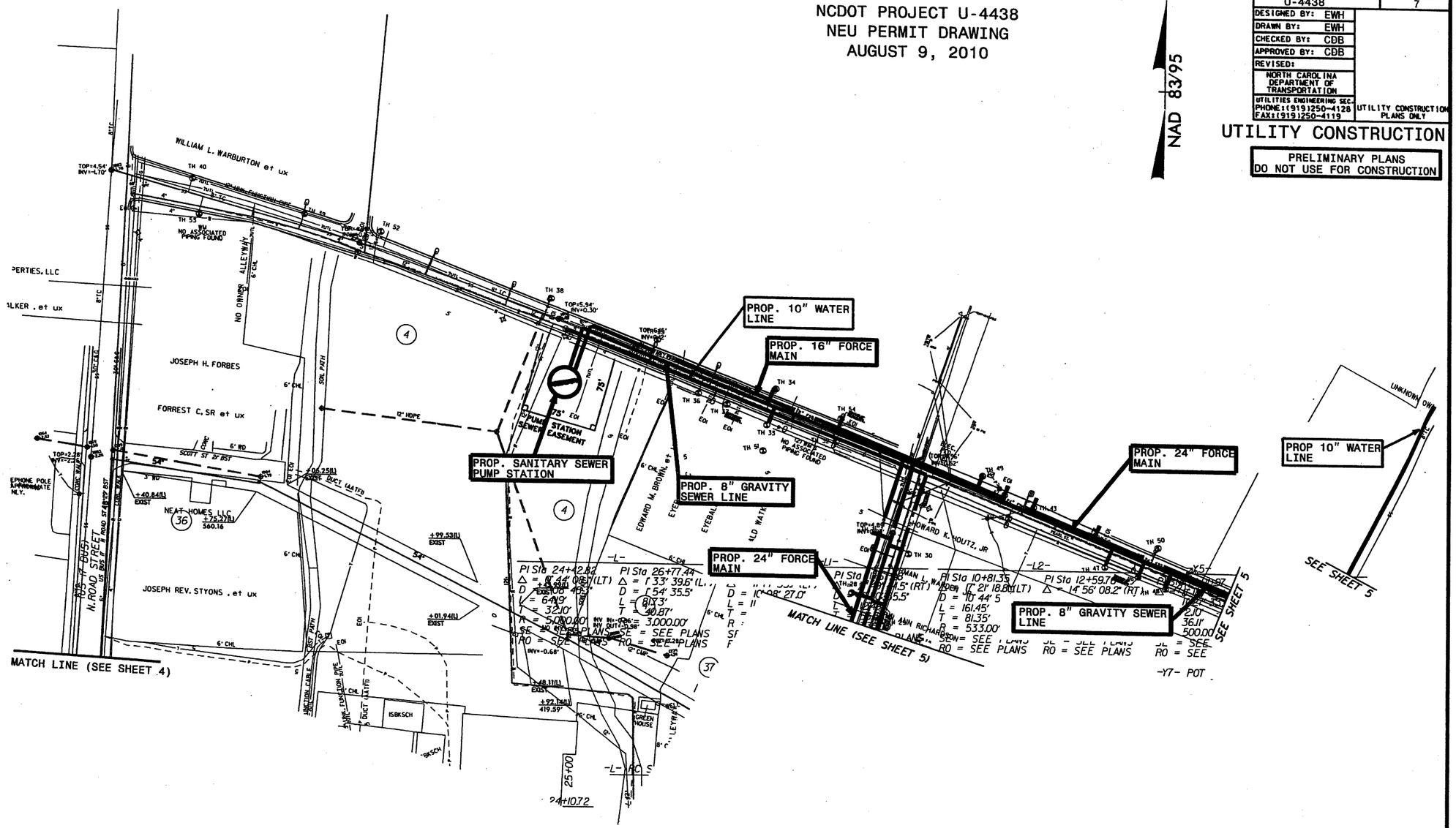
NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010

NAD 83/95

PROJECT REFERENCE NO.	SHEET NO.
U-4438	7
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)250-4128 FAX:(919)250-4119	UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



Utility
Permit Drawing
Sheet 5 of 8

5/14/99

NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	8
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: EWH	
APPROVED BY: CDB	
REVISED:	

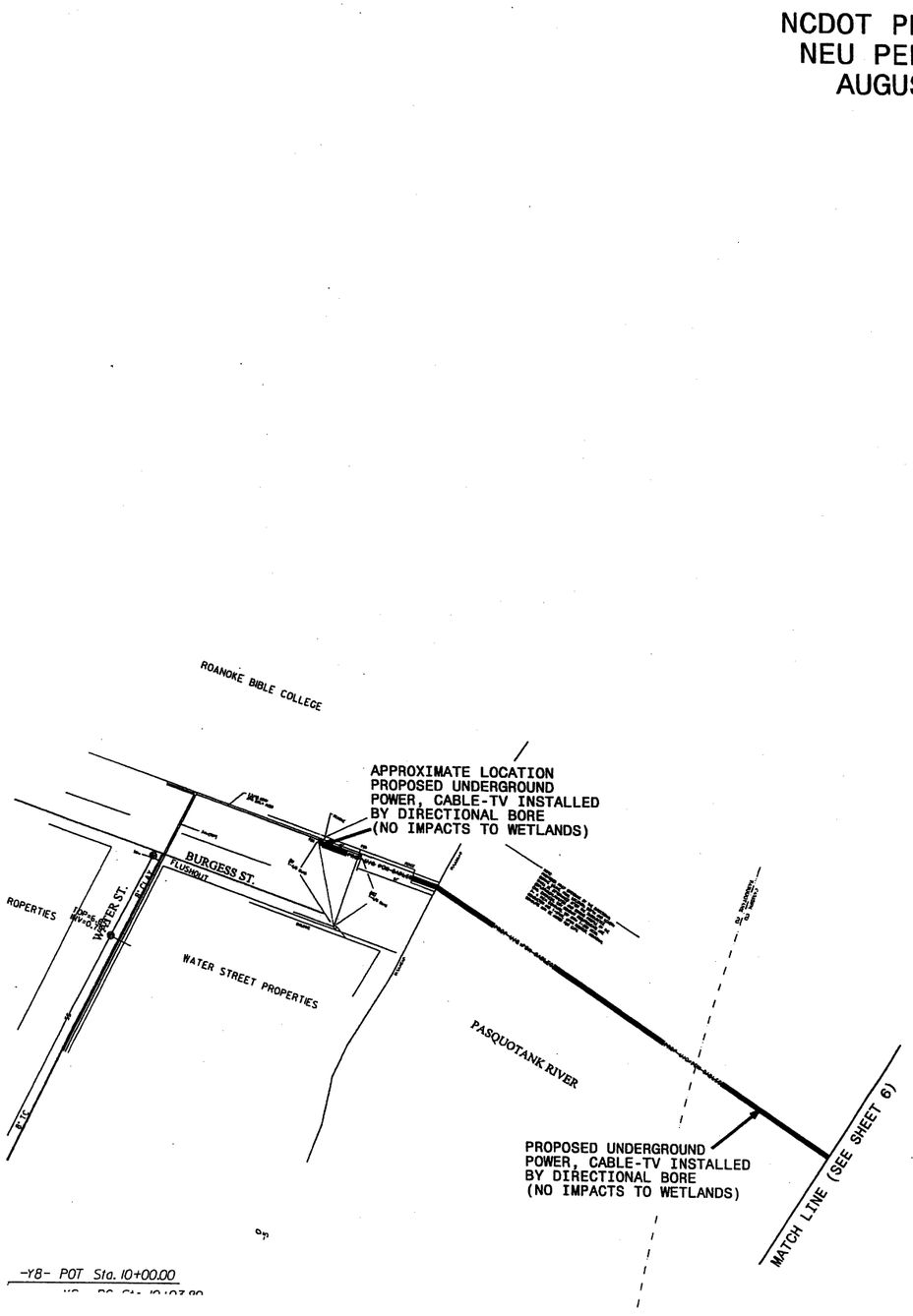
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919)250-4128
FAX: (919)250-4119

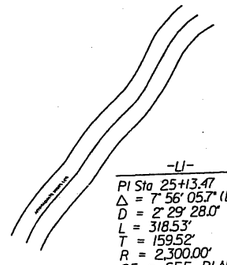
UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/95



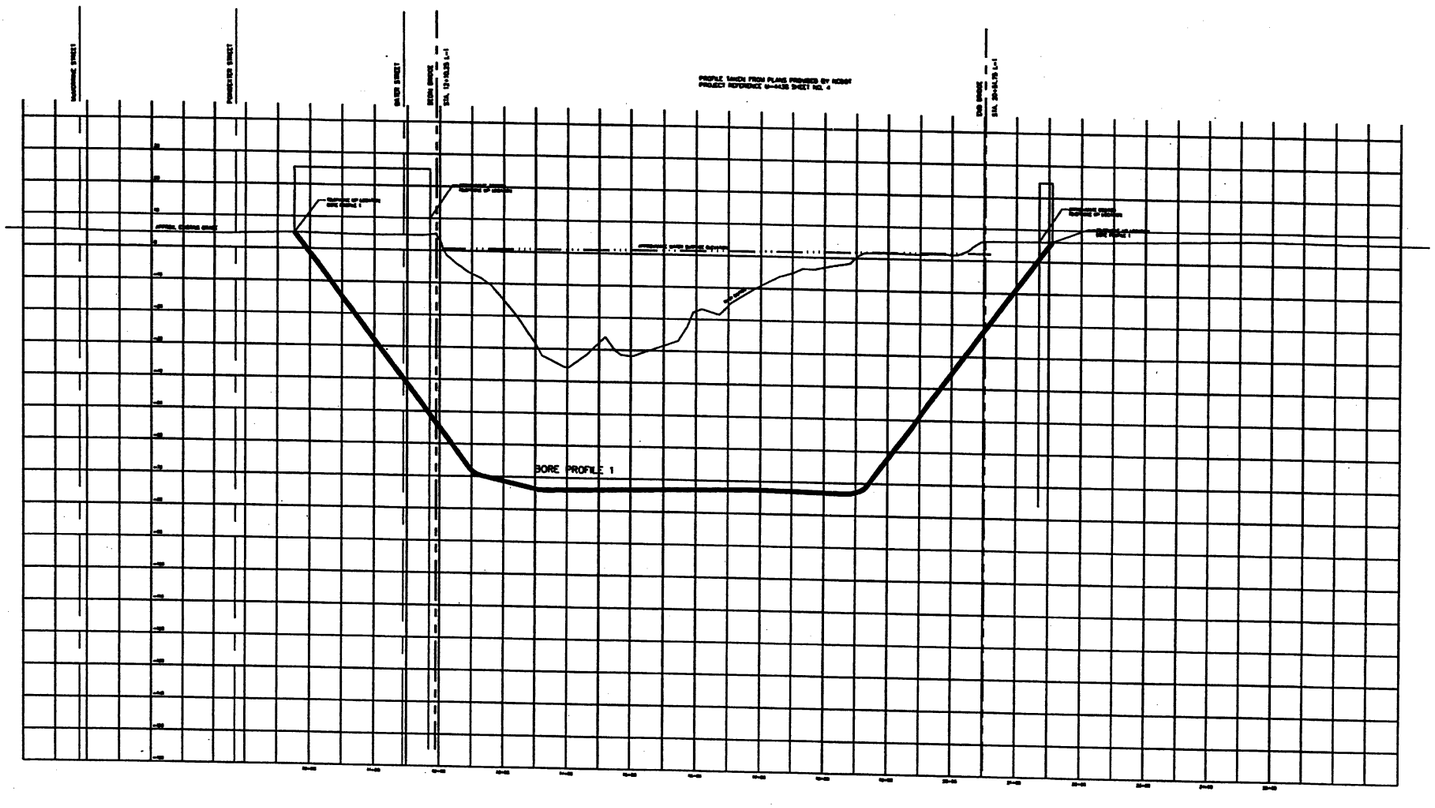


-L1-
PI Sta 25+13.47
Δ = 7° 56' 05.7" (LT)
D = 2° 29' 28.0"
L = 318.53'
T = 159.52'
R = 2,300.00'
SE = SEE PLANS
RO = SEE PLANS

-L2-
PI Sta 26+67.81
Δ = 8° 27' 32.9" (LT)
D = 2° 36' 15.7"
L = 324.81'
T = 162.70'
R = 2,200.00'

Utility
Permit Drawing
Sheet 6 of 8

U-4438 NEU PERMIT DRAWING
PROPOSED TELEPHONE PROFILE
UNDER PASQUOTANK RIVER
AUGUST 9, 2010



SCALE
HORIZONTAL: 1" = 100'
VERTICAL: 1" = 20'

Utility
Permit Drawing
Sheet 7 of 8

HYMAN ROBEY
SOLUTIONS FROM THE GROUND UP
150 US Hwy 158 E.
PO Box 339
Camden, NC 27921
(252) 338-2913
(252) 338-5552 fax
www.hymanrobey.com
License C-0598

PRELIMINARY
DO NOT USE FOR CONSTRUCTION, SALES, OR RECORDATION

DIRECTIONAL BORE DIAGRAM FOR THE PASQUOTANK RIVER BRIDGE REPLACEMENT

ELIZABETH CITY

NORTH CAROLINA

KEY PLAN:

Project #: 100139
Drawing #: 100139 Bridge Bore Profile
Drawn: KDH
Checked: SCR
Approved: SCR
Date: 07/29/10
Sheet #: 1/1
Scale: AS SHOWN

REVISIONS:
NUM. DATE DESCRIPTION

SHEET TITLE:
BORE PROFILE

SHEET NUMBER:
SHT-9

Bridge Power Line
Utility
Permit Drawing
Sheet 1 of 2

EXIST PIER 1

90'-0" FACE TO FACE FENDERS

EXIST PIER 2

← TO ELIZABETH CITY

℄ -L2-

℄ TRUNNION &
PIER 5 CONTROL LINE
STA. 14+52.75 -L1-

℄ TRUNNION &
PIER 6 CONTROL LINE
STA. 15+98.75 -L1-

℄ SPAN

℄ CHANNEL

TO CAMDEN →

℄ -L1-

℄ BRIDGE

PARKING AREA

CONTROL HOUSE

EBB

FLOOD

← PASQUOTANK RIVER

SUBMARINE CABLE

GENERAL PLAN - BASCULE SPAN "F"

SCALE: 1" = 10'-0"

PROJECT NO. U-4438

PASQUOTANK COUNTY

STATION: 15+25.75 -L1-

SHEET _ OF _

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

ELIZABETH CITY BRIDGE OVER
PASQUOTANK RIVER
BASCULE SPAN
GENERAL PLAN
SUBMARINE CABLE

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

10/14/10

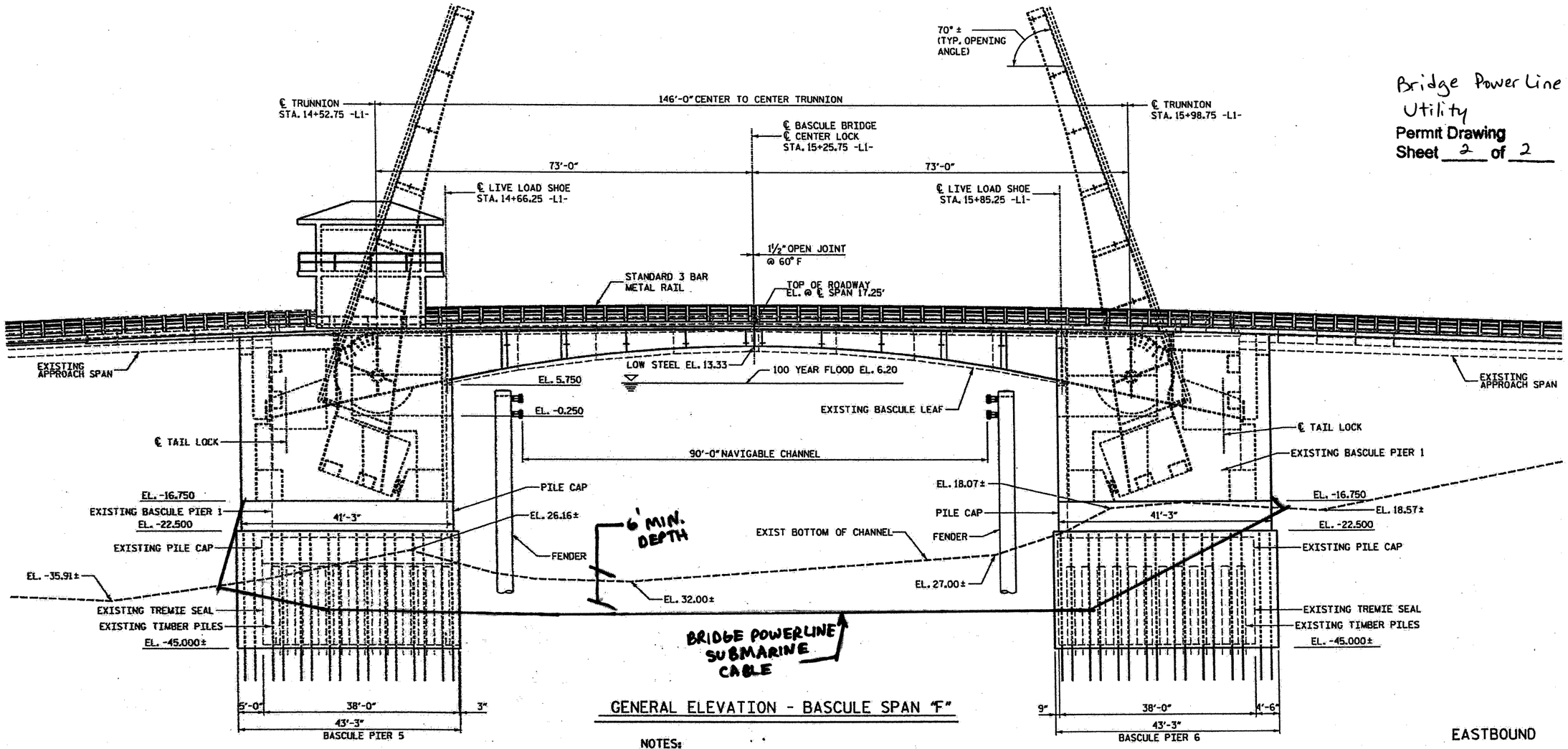
MODJESKI and MASTERS
Experience great bridges.
Mechanicsburg, PA NC License No. C-2979

DWG NUMBER	TOTAL DWGS
M-002E	98

DRAWN BY : R.L. REED DATE :
CHECKED BY : DATE :

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

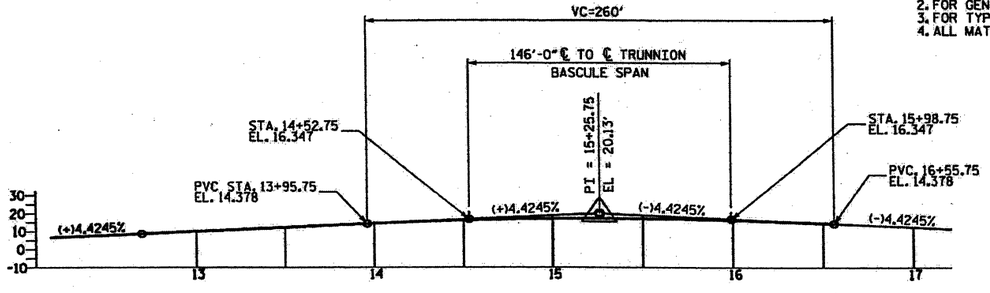
Bridge Power Line Utility
Permit Drawing
Sheet 2 of 2



GENERAL ELEVATION - BASCULE SPAN "F"

NOTES:

1. FOR GENERAL PLAN OF BASCULE SPAN, SEE DWG. S-001E
2. FOR GENERAL NOTES, SEE DWG. S-005E
3. FOR TYPICAL CROSS SECTION OF BASCULE SPAN, SEE DWG. X.
4. ALL MATERIAL NEW UNLESS NOTED OTHERWISE.



GRADE DATA FOR -L1-

EASTBOUND

PROJECT NO. U-4438
PASQUOTANK COUNTY
STATION: 15+25.75 -L1-
SHEET _ OF _

10/15/10

MODJESKI and MASTERS
Experience great bridges.
Mechanicsburg, PA NC License No. C-2979

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

ELIZABETH CITY BRIDGE OVER
PASQUOTANK RIVER
BASCULE SPAN "F"
GENERAL ELEVATION - 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	

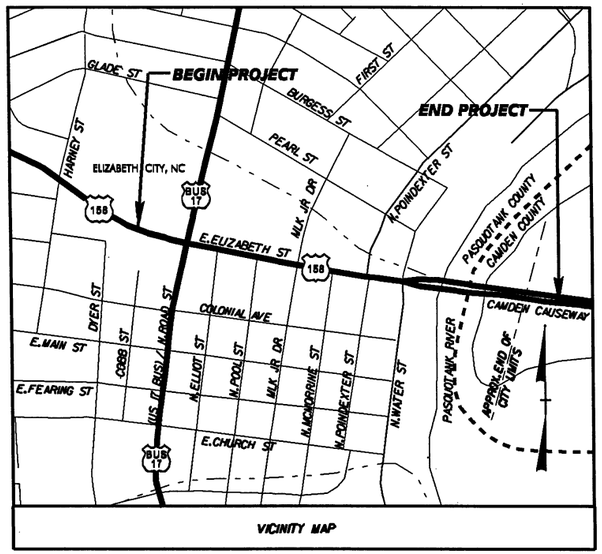
TIP PROJECT: U-4438

CONTRACT:

$FILE1$

$DATE$

SEE SHEET 1-A FOR INDEX OF SHEETS
SEE SHEET 1-B FOR CONVENTIONAL PLAN SHEET SYMBOLS



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

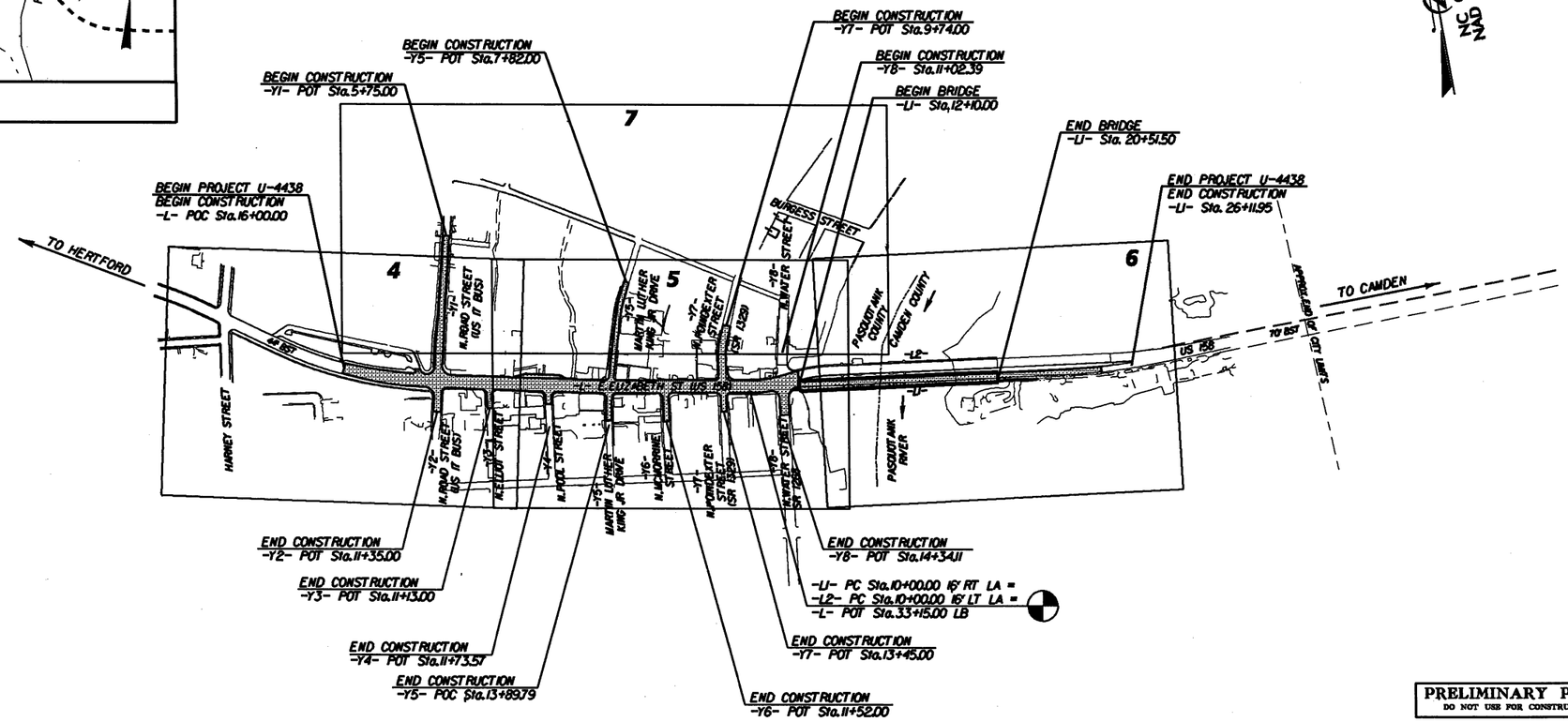
PASQUOTANK & CAMDEN COUNTIES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4438	1	

STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION
35742.1.1	STP-0158(31)	P.E.
35742.2.1	STP-0158(50)	R/W & UTILITIES

LOCATION: *US 158 (EAST ELIZABETH STREET) FROM US 17 BUSINESS (NORTH ROAD STREET) TO EAST OF PASQUOTANK RIVER*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES*



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NCDOT CONTACT:
DOUG TAYLOR, P.E.
PROJECT ENGINEER
ROADWAY DESIGN UNIT

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF ELIZABETH CITY

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2011 = 12,900 VPD
ADT 2030 = 18,800 VPD
DHV = 10%
D = 55%
T = 20% *
V = 40 MPH
* (TTST 11% + DUAL 9%)

CLASS = URBAN ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4438 = 0.471 MILES
LENGTH STRUCTURE TIP PROJECT U-4438 = 0.159 MILES
TOTAL LENGTH TIP PROJECT U-4438 = 0.630 MILES

PLANS PREPARED FOR THE NCDOT BY:

Kimley-Horn and Associates, Inc.
© 2010
Post Office Box 33068
Raleigh, North Carolina 27636
PE NO. F-0102

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 16, 2010

LETTING DATE:
APRIL 19, 2011

JEFFREY W. MOORE, P.E.
PROJECT ENGINEER

J. JASON PACE, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.

PROJECT REFERENCE NO.	SHEET NO.
U-4438	1-B

Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — EPM
- Parcel/Sequence Number — 23
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

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

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line
- Proposed Right of Way Line with Iron Pin and Cap Marker
- Proposed Right of Way Line with Concrete or Granite Marker
- Existing Control of Access — CA
- Proposed Control of Access
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Wheel Chair Ramp — WCR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

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

MINOR:

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

UTILITIES:

POWER:

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

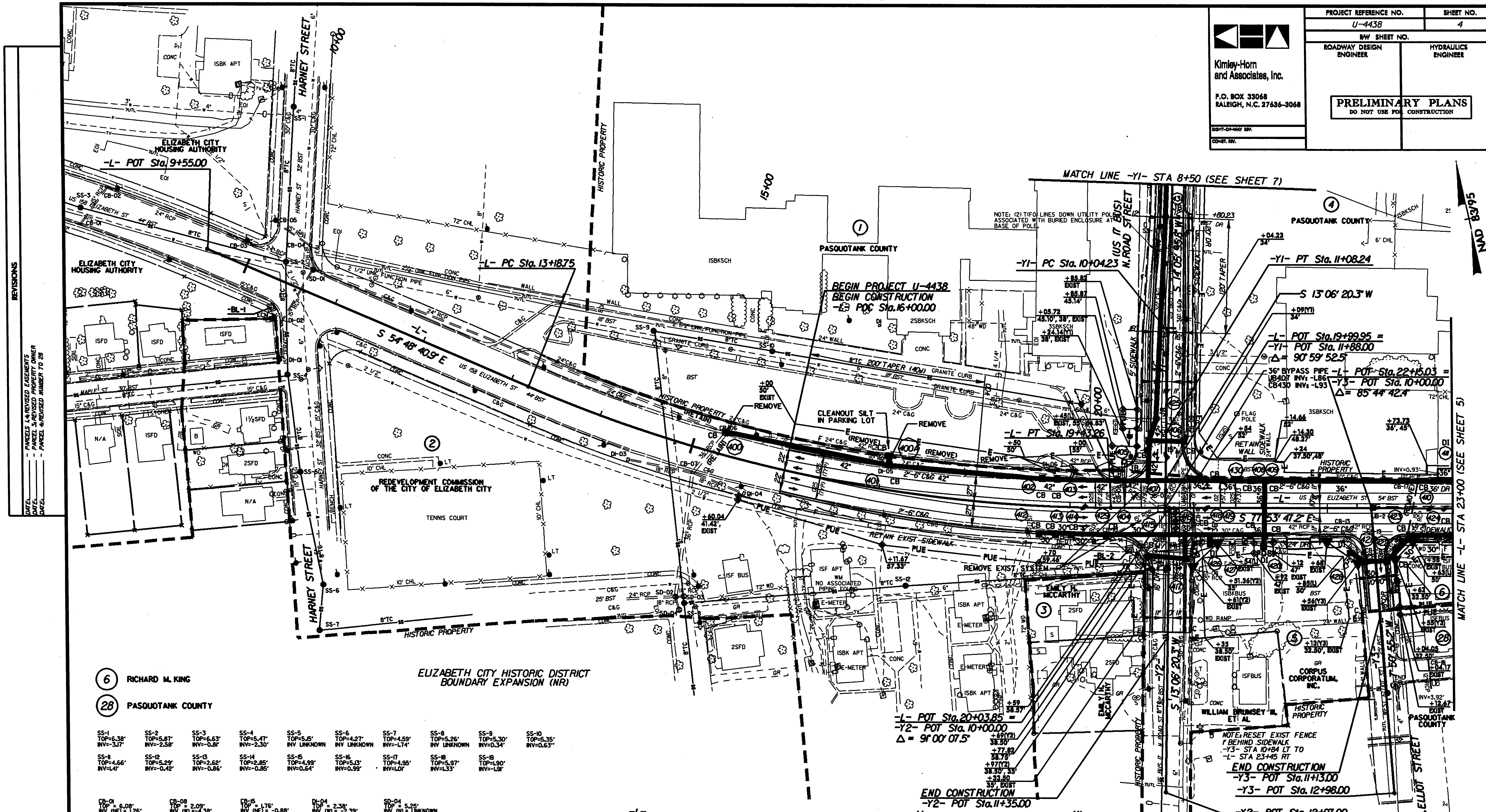
- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- A/G Tank; Water, Gas, Oil
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT REFERENCE NO.	SHEET NO.
U-4438	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.
CONST. REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



ELIZABETH CITY HISTORIC DISTRICT BOUNDARY EXPANSION (NR)

(6) RICHARD M. KING

(28) PASQUOTANK COUNTY

Structure	TOP	INV
SS-1	6.38'	-3.17'
SS-2	5.87'	-2.58'
SS-3	6.63'	-0.81'
SS-4	5.47'	-2.30'
SS-5	5.15'	UNKNOWN
SS-6	4.27'	UNKNOWN
SS-7	4.59'	-1.74'
SS-8	5.26'	UNKNOWN
SS-9	5.30'	0.34'
SS-10	5.35'	0.63"
SS-11	4.66'	1.41'
SS-12	5.29'	-0.42'
SS-13	2.62'	-0.86'
SS-14	2.85'	-0.85'
SS-15	4.99'	0.64'
SS-16	5.13'	0.99'
SS-17	4.95'	1.01'
SS-18	5.97'	1.33'
SS-19	1.90'	-1.91'

Structure	TOP	INV
CB-01	6.08'	INV (NE) = 1.26'
CB-02	6.00'	INV (SW) = 1.45'; INV (E) = -0.08'
CB-03	5.75'	INV (W) = -0.38'; INV (E) = -0.38
CB-04	5.31'	INV (SE) = 1.03'; INV (NW) = 1.10'
CB-05	5.66'	INV (SE) = 1.21'
CB-06	3.15'	INV (S) = 0.12'; INV (E) = -2.72; INV (W) = -2.91'
CB-07	3.23'	INV (N) = -0.17'; INV (W) = -2.68'; INV (E) = -2.73'; INV (S) = UNKNOWN
CB-08	2.09'	INV (W) = -4.38'; INV (SE) = -4.36'
CB-09	3.23'	INV (SW) = -0.18'
CB-10	1.73'	INV (W) = -2.38'; INV (E) = -2.36'
CB-11	1.52'	INV (NW) = -3.28'; INV (E) = -3.39'; INV (S) = -3.67'
CB-12	UNKNOWN	INV = UNKNOWN
CB-13	1.02'	INV (W) = -3.92'; INV (E) = -3.92'; INV (SE) = -4.25'
CB-14	1.50'	INV (NW) = -1.59'
CB-15	1.76'	INV (NE) = -0.88'
CB-16	1.23'	INV (W) = -3.99'; INV (E) = -4.08'; INV (SW) = -4.21'; INV (N) = -4.28'
CB-17	1.51'	INV (S) = -1.92'; INV (NE) = -1.80'
CB-18	6.24'	INV (S) = 4.12'
DI-01	4.79'	INV (N) = 1.80'
DI-02	5.49'	INV (S) = UNKNOWN; INV (N) = 1.19'
DI-03	3.47'	INV (E) = -1.92'
DI-04	2.38'	INV (W) = -2.39'
DI-05	UNKNOWN	INV (N) = UNKNOWN
DI-06	1.35'	INV (W) = -3.62'; INV (E) = -3.70'
DI-07	2.46'	INV (E) = -1.20'
SD-1	5.74'	INV (N) = 0.81'; INV (S) = 0.76'; INV (W) = -0.92'; INV (E) = -1.75'
SD-02	5.23'	INV (N) = UNKNOWN; INV (E) = UNKNOWN; INV (S) = UNKNOWN; INV (W) = UNKNOWN
SD-03	5.24'	INV (W) = UNKNOWN
SD-04	5.25'	INV (N) = UNKNOWN
JB-01	UNKNOWN	INV (NW) = UNKNOWN; INV (SE) = UNKNOWN; INV (S) = UNKNOWN; INV (SW) = UNKNOWN; INV (NW) = UNKNOWN
JB-02 (STORM SEWER VAULT)	2.51	2 @ INV (E) = -1.57 (PLUGGED SYSTEM)

Alignment	PI Sta	Δ	D	L	T	R	SE	RO
-L-	16+35.30	23°05' 06.3" (LT)	3°41' 47.4"	624.51'	316.55'	1,550.00'	SEE PLANS	SEE PLANS
-L-	24+42.82	0°44' 08.1" (LT)	1°08' 45.3"	64.19'	32.10'	5,000.00'	SEE PLANS	SEE PLANS
-L-	26+77.44	1°33' 39.6" (LT)	1°54' 35.5"	81.73'	40.87'	3,000.00'	SEE PLANS	SEE PLANS
-U-	10+55.64	11°14' 55.1" (LT)	10°08' 27.0"	110.92'	55.64'	565.00'	SEE PLANS	SEE PLANS
-U-	11+67.28	8°49' 44.5" (RT)	7°50' 55.5"	112.49'	56.36'	730.00'	SEE PLANS	SEE PLANS
-Y1-	10+56.24	0°59' 35.5" (LT)	0°57' 17.7"	104.01'	52.01'	6,000.00'	SEE PLANS	SEE PLANS
-L2-	10+81.35	17°21' 18.8" (LT)	10°44' 58.8"	161.45'	81.35'	533.00'	SEE PLANS	SEE PLANS
-L2-	12+59.76	14°56' 08.2" (RT)	7°38' 22.0"	195.51'	98.31'	750.00'	SEE PLANS	SEE PLANS
-Y5-	8+75.32	9°39' 38.9" (LT)	16°22' 12.8"	59.01'	29.58'	350.00'	SEE PLANS	SEE PLANS
-Y5-	10+18.76	1°03' 52.3" (LT)	1°38' 13.3"	65.03'	32.52'	3,500.00'	SEE PLANS	SEE PLANS
-Y5-	13+05.07	8°26' 24.0" (LT)	11°27' 33.0"	73.65'	36.89'	500.00'	SEE PLANS	SEE PLANS
-Y7-	10+76.95	15°13' 26.0" (LT)	14°59' 56.0"	101.50'	51.05'	382.00'	SEE PLANS	SEE PLANS
-Y8-	11+39.11	5°10' 41.4" (LT)	5°43' 46.5"	90.38'	45.22'	1,000.00'	SEE PLANS	SEE PLANS

SEE SHEET 2-C FOR INTERSECTION DETAILS
SEE SHEET NO.8 FOR -L- PROFILE
SEE SHEET NO.9 FOR -Y1- PROFILE
SEE SHEET NO.10 FOR -Y2- & -Y3- PROFILES

$FILEL$
$DATE$

PROJECT REFERENCE NO.	SHEET NO.
U-4438	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

RIGHT-OF-WAY SRV.
CONST. SRV.

NOTES

1. CONTRACTOR TO COMPLETELY REMOVE EXISTING BUSINESS AND CONCRETE SLAB ON PARCEL 18.CONSTRUCT BULKHEAD WITH PEDESTRIAN RAIL.
2. PROPOSED GRASS AREA AND EMERGENCY VEHICLE ACCESS AREA (SEE DETAIL ON SHEET 2-B).
3. TEMPORARY CONSTRUCTION EASEMENT ON PARCELS 4 & 9 ARE FROM RIGHT OF WAY TO PERMANENT UTILITY EASEMENT.
4. REMOVE EXISTING 2 @ 48" CMP'S, RETAIN EXISTING PUMP SYSTEM AND 24" OUTLET PIPES.CONSTRUCT NEW PUMP SYTEM.(SEE SHEET XX FOR DETAILS)
5. REMOVE EXISTING BULKHEAD AND CONSTRUCT NEW BULKHEAD TO TIE INTO EXISTING.
6. REMOVE EXISTING 9' X5'-6" CMPA
7. INSTALL 54" CHAIN LINK FENCE F FROM S/W STA 10+80 TO 11+58 (RT) AND STA 11+10 TO 12+00 (LT)
8. REMOVE EXISTING SYSTEM BETWEEN 557 - 558
9. TIE TO EXISTING CONCRETE WALL
10. TIE PROP BULKHEAD TO PROP ALUM ARCH CULVERT HW
11. REMOVE PARKING SLAB AND SAWCUT PIERS TO GROUND ELEVATION.12' BASE DITCH. PROPOSED BEGINNING INVERT = -4.56. GRADE TO DRAIN AT 0.10% SLOPE.
12. DO NOT DISTURB SIGN

REVISIONS
- PARCELS 4,6,10,17,21,28,29,33,37 REVISED EASEMENTS — DATE:
- PARCEL 4 REVISED NUMBER TO 4A — DATE:
- PARCEL 9 REVISED NUMBER TO 4B AND EASEMENTS — DATE:
- PARCELS 10,14,15,A,B,34 REVISED PROPERTY OWNER — DATE:
- PARCEL 18,30,32,34 REVISED PARCEL AND EASEMENTS — DATE:
- PARCEL 26 REVISED NUMBER TO 4 — DATE:
- PARCEL 36 REVISED NUMBER TO 4B — DATE:
- PARCELS 38,40,42,43,44,45,46 ADDED PARCEL — DATE:

$FILE$
$DATE$

(15) FOOTPRINT PROPERTIES LLC
(16) JOSEPH HUDAK ET UX
(17) A. JOSH TUNNELL ET UX
(18) MANN CAPITAL PROPERTIES LIMITED, GARY T MANN ET AL
(32) MANN CAPITAL PROPERTIES, LTD.
(37) MELVIN DONALD WATKINS
(39) PASSPORT RENT-A-CENTER
(44) RICHARD W. ALBURY, ET UX
(46) WILLIAM R. & DARLENE M SANDERLIN

STANDARD BASE DITCH DETAIL I
(Not to Scale)
Natural Ground, 2:1, D, 2:1, Natural Ground
Min. D= 1.0 Ft.
B= 12.0 Ft.
B
-Y9- STA 16+75.00 TO 17+64.70
-Y9- STA 18+32.78 TO 21+37.46

REMOVE AND OBLITERATE EXISTING ASPHALT PAVEMENT

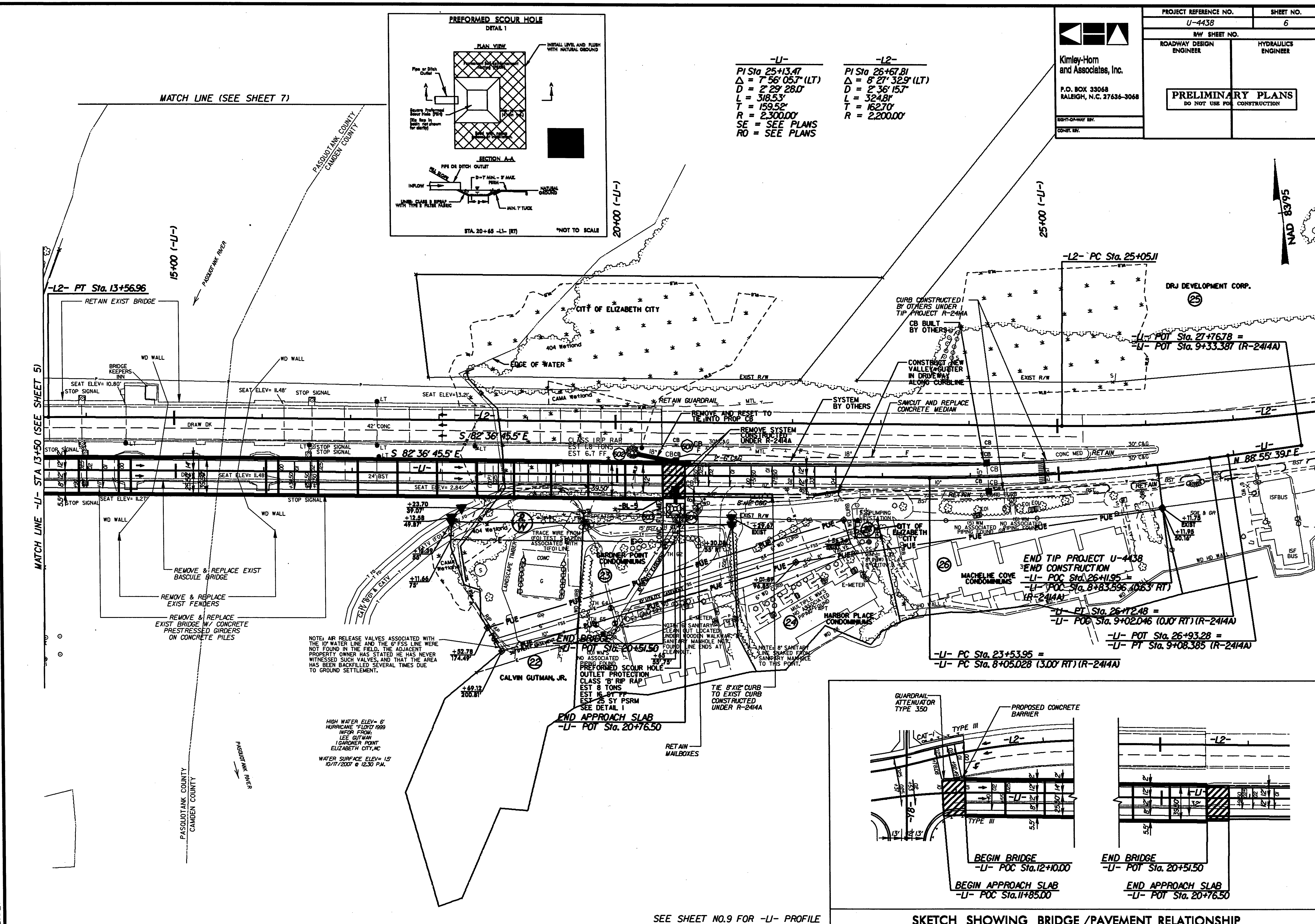
SEE SHEET 2-C FOR INTERSECTION DETAILS
SEE SHEET 4 FOR CURVE DATA
SEE SHEET NO.8 FOR -L- PROFILE
SEE SHEET NO.9 FOR -LI- AND -L2- PROFILES
SEE SHEET NO.10 FOR -Y4-,-Y5-,AND -Y6- PROFILES
SEE SHEET NO.11 FOR -Y7- AND -Y8- PROFILES

PROJECT REFERENCE NO.	SHEET NO.
U-4438	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS
DATE: - PARCELS 22,23,24,26,27) REVISED PROPERTY OWNER
DATE: - PARCEL 25) REMOVED EASEMENT
DATE: - PARCEL 25) COMBINED PARCELS 26 AND 27
DATE: - PARCEL 27) ADDED PARCEL



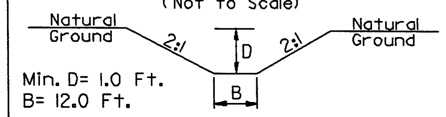
PREFORMED SCOUR HOLE
DETAIL 1
PLAN VIEW
SECTION A-A
STA. 20+65 -L1- (RT)
*NOT TO SCALE
MATCH LINE (SEE SHEET 7)
MATCH LINE -L- STA 13+50 (SEE SHEET 5)
-L- PI Sta 25+13.47 Δ = 7° 56' 05.7" (LT) D = 2° 29' 28.0" L = 318.53' T = 159.52' R = 2,300.00' SE = SEE PLANS RO = SEE PLANS
-L2- PI Sta 26+67.81 Δ = 8° 27' 32.9" (LT) D = 2° 36' 15.7" L = 324.81' T = 162.70' R = 2,200.00'
-L2- PT Sta. 13+56.96
-L2- PC Sta. 25+05.11
PASQUOTANK COUNTY
CAMDEN COUNTY
PASQUOTANK RIVER
CITY OF ELIZABETH CITY
DRJ DEVELOPMENT CORP.
S 82° 36' 45.5" E
N 88° 55' 39.1" E
NAD 83/95
RETAIN EXIST BRIDGE
BRIDGE KEEPERS INN
REMOVE & REPLACE EXIST BASCULE BRIDGE
REMOVE & REPLACE EXIST FENDERS
REMOVE & REPLACE EXIST BRIDGE W/ CONCRETE PRESTRESSED GIRDERS ON CONCRETE PILES
GARDNER POINT CONDOMINIUMS
HARBOR PLACE CONDOMINIUMS
MACHELHE COVE CONDOMINIUMS
CALVIN GUTMAN, JR.
END TIP PROJECT U-4438 END CONSTRUCTION -L- POC Sta. 26+11.95 = -L- POC Sta. 8+83.596 (0.63' RT) (R-2414A)
-L- PT Sta. 26+72.48 = -L- POC Sta. 9+02.046 (0.10' RT) (R-2414A)
-L- POT Sta. 26+93.28 = -L- PT Sta. 9+08.385 (R-2414A)
-L- PC Sta. 23+53.95 = -L- PC Sta. 8+05.028 (3.00' RT) (R-2414A)
-L- POT Sta. 27+76.78 = -L- POT Sta. 9+33.387 (R-2414A)
END BRIDGE -L- POT Sta. 20+51.50
END APPROACH SLAB -L- POT Sta. 20+76.50
PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 1
NOTE: AIR RELEASE VALVES ASSOCIATED WITH THE 10" WATER LINE AND THE 6" FSS LINE WERE NOT FOUND IN THE FIELD. THE ADJACENT PROPERTY OWNER HAS STATED HE HAS NEVER WITNESSED SUCH VALVES, AND THAT THE AREA HAS BEEN BACKFILLED SEVERAL TIMES DUE TO GROUND SETTLEMENT.
HIGH WATER ELEV= 6' HURRICANE "FLOYD" 1999 INFOR FROM: LEE GUTMAN 1 GARDNER POINT ELIZABETH CITY, NC
WATER SURFACE ELEV= 1.5' 10/17/2007 @ 12:30 P.M.
TIE 8"X12" CURB TO EXIST CURB CONSTRUCTED UNDER R-2414A
RETAIN MAILBOXES
CURB CONSTRUCTED BY OTHERS UNDER TIP PROJECT R-2414A
SAWCUT AND REPLACE CONCRETE MEDIAN
SKETCH SHOWING BRIDGE / PAVEMENT RELATIONSHIP
GUARDRAIL ATTENUATOR TYPE 350
PROPOSED CONCRETE BARRIER
BEGIN BRIDGE -L- POC Sta. 12+10.00
BEGIN APPROACH SLAB -L- POC Sta. 11+85.00
END BRIDGE -L- POT Sta. 20+51.50
END APPROACH SLAB -L- POT Sta. 20+76.50

SEE SHEET NO. 9 FOR -L- PROFILE

$FILE$
$DATE$

DI-01 TOP=1.88' INV=-2.52'	DI-02 TOP=1.53' INV=-1.50'	DI-03 TOP=1.72' INV=-2.12'	DI-04 TOP=1.03' INV=-1.79'	DI-05 TOP=1.08' INV=UNKNOWN
DI-06 TOP=0.60' INV=-0.59'	DI-07 TOP=2.46' INV IN=-0.09' INV IN=-0.14' INV OUT=-0.18'	DI-08 TOP=0.85' INV IN=UNKNOWN INV OUT=-0.68'	DI-09 TOP=0.29' INV IN=-0.96' INV OUT=-0.98'	DI-10 TOP=-0.18' INV=-1.28'
SS-01 TOP=2.28' INV=-2.26'	SS-02 TOP=4.54' INV=-1.70'	SS-03 TOP=4.98' INV=-0.16'	SS-04 TOP=5.94' INV=0.30'	SS-05 TOP=6.16' INV=0.12'
SS-06 TOP=4.96' INV=0.52'	SS-07 TOP=4.89' INV=0.95'			

STANDARD BASE DITCH
DETAIL 1
(Not to Scale)



Min. D= 1.0 Ft.
B= 12.0 Ft.

-Y9- STA 16+24.50 TO 16+75.00

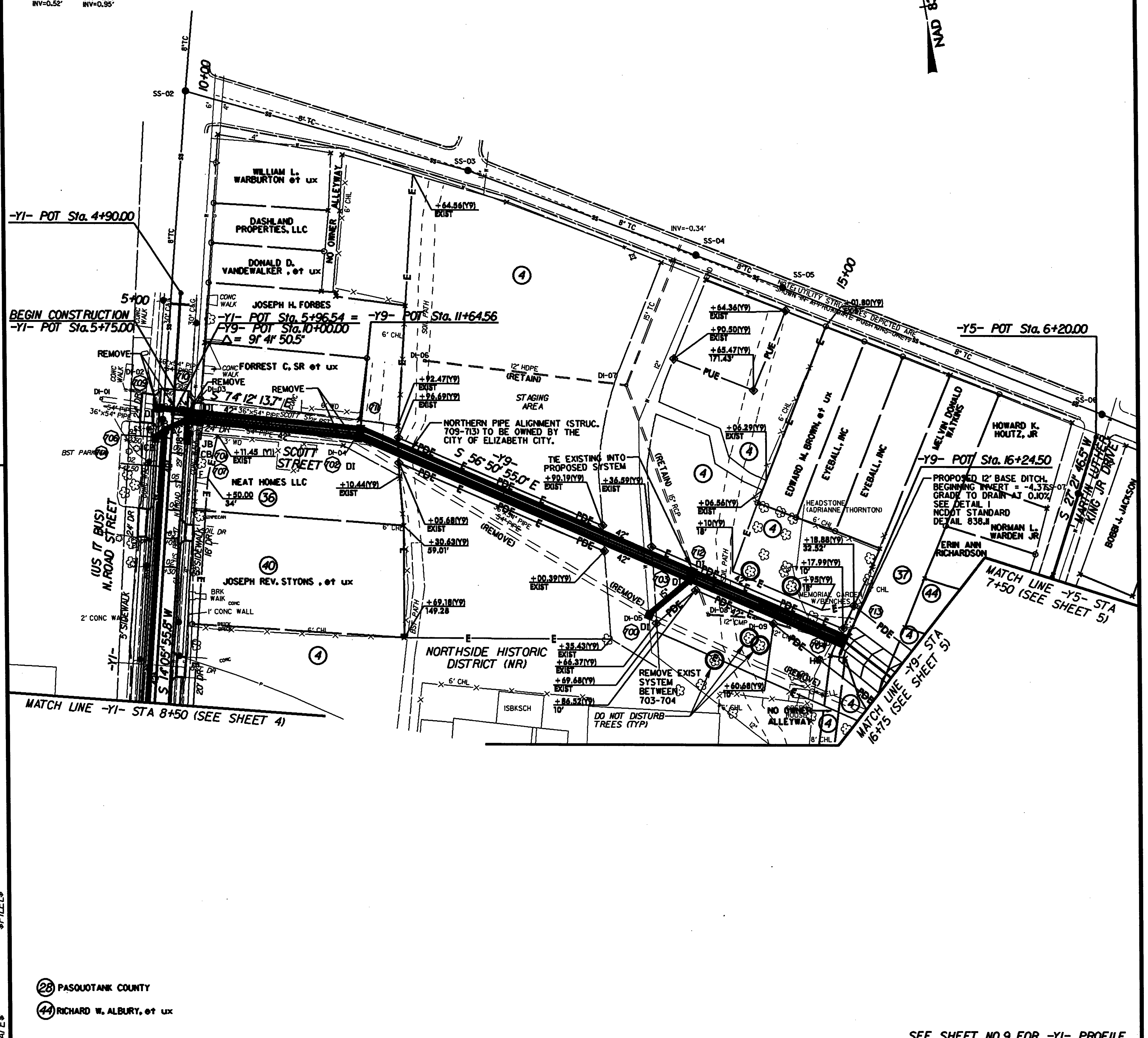
PROJECT REFERENCE NO.	SHEET NO.
U-4438	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

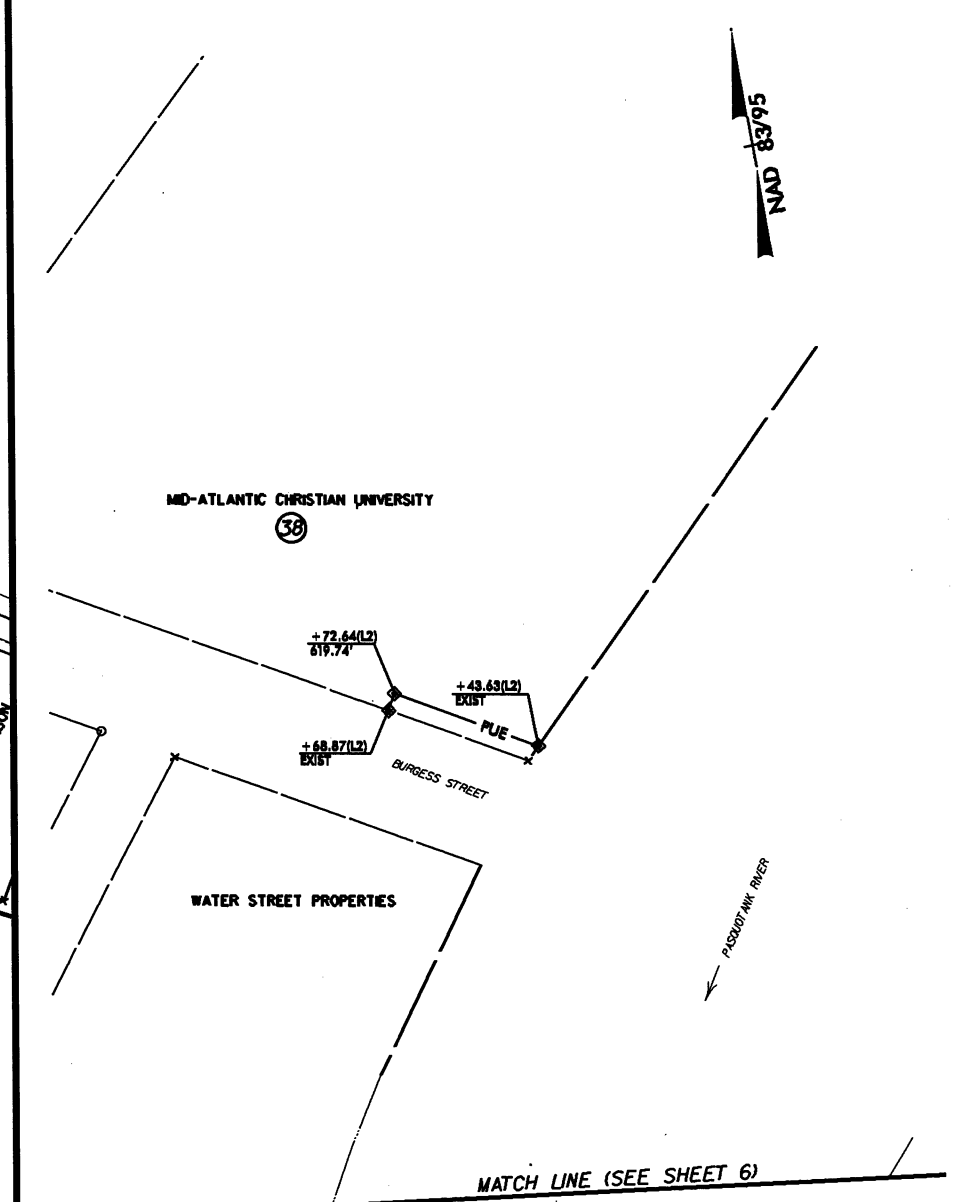
RIGHT-OF-WAY REV.
CONST. REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS
- PARCEL 4,36,37,38,REVISED EASEMENTS
- PARCEL 28,REVISED NUMBER TO 4
- PARCEL 38,REVISED PROPERTY OWNER
- PARCEL 40,44,ADDED PARCEL



NAD 83/95
-Y1- POT Sta. 4+90.00
BEGIN CONSTRUCTION
-Y1- POT Sta.5+75.00
-Y1- POT Sta. 5+96.54 = -Y9- POT Sta. 11+64.56
-Y9- POT Sta.10+00.00
Δ = 91° 41' 50.5"
WILLIAM L. WARBURTON et ux
DASHLAND PROPERTIES, LLC
DONALD D. VANDEWALKER, et ux
JOSEPH H. FORBES
FORREST C. SR et ux
NEAT HOMES LLC
JOSEPH REV. STYONS, et ux
NO OWNER ALLEYWAY
SCOTT STREET
(US 17 BUS) N. ROAD STREET
S 14°05' 55.8" W
S 74°12' 13.7" E
S 56°50' 55.0" E
STAGING AREA
NORTHERN PIPE ALIGNMENT (STRUC. 709-713) TO BE OWNED BY THE CITY OF ELIZABETH CITY.
TIE EXISTING INTO PROPOSED SYSTEM
REMOVE EXIST SYSTEM BETWEEN 703-704
DO NOT DISTURB TREES (TYP)
NORTHSIDE HISTORIC DISTRICT (NR)
EDWARD M. BROWN, et ux
EYEBALL, INC
EYEBALL, INC
MELVIN DONALD WATKINS
HOWARD K. HOUTZ, JR
NORMAN L. WARDEN JR
ERIN ANN RICHARDSON
BOBBI J. JACKSON
MARTIN LUTHER KING JR DRIVE
-Y5- POT Sta. 6+20.00
-Y9- POT Sta. 16+24.50
PROPOSED 12' BASE DITCH. BEGINNING INVERT = -4.37. GRADE TO DRAIN AT 0.10% SEE DETAIL 1 NCDOT STANDARD DETAIL 838.11
HEADSTONE (ADRIANNE THORNTON)
MEMORIAL GARDEN W/BENCHES
NOTE: UTILITY STRUCTURES SHOWN IN APPROXIMATE LOCATIONS
MATCH LINE -Y1- STA 8+50 (SEE SHEET 4)
MATCH LINE -Y5- STA 7+50 (SEE SHEET 5)
MATCH LINE -Y9- STA 16+75 (SEE SHEET 5)



(28) PASQUOTANK COUNTY
(44) RICHARD W. ALBURY, et ux

SEE SHEET NO.9 FOR -Y1- PROFILE

$FILE$
$DATE$

Note: "Quantities are approximate only. The Resident Engineer will re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid."

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-1

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

17+50.00

17+00.00

16+50.00

16+00.00

20+05.00

19+55.00

19+05.00

18+50.00

18+00.00

$FILE$

$DATE$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-2

22+00.00

21+50.00

21+40.00

21+00.00

20+50.00

23+55.00

23+05.00

22+69.01

22+50.00

22+10.20

$FILE$

$DATE$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-3

25+64.72

25+50.00

25+00.00

24+50.00

24+00.00

27+50.00

27+00.00

26+55.00

26+12.18

25+87.00

$FILE$

$DATE$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-4

29+05.00

28+55.00

28+30.00

27+98.10

27+84.00

30+34.80

30+08.10

29+89.65

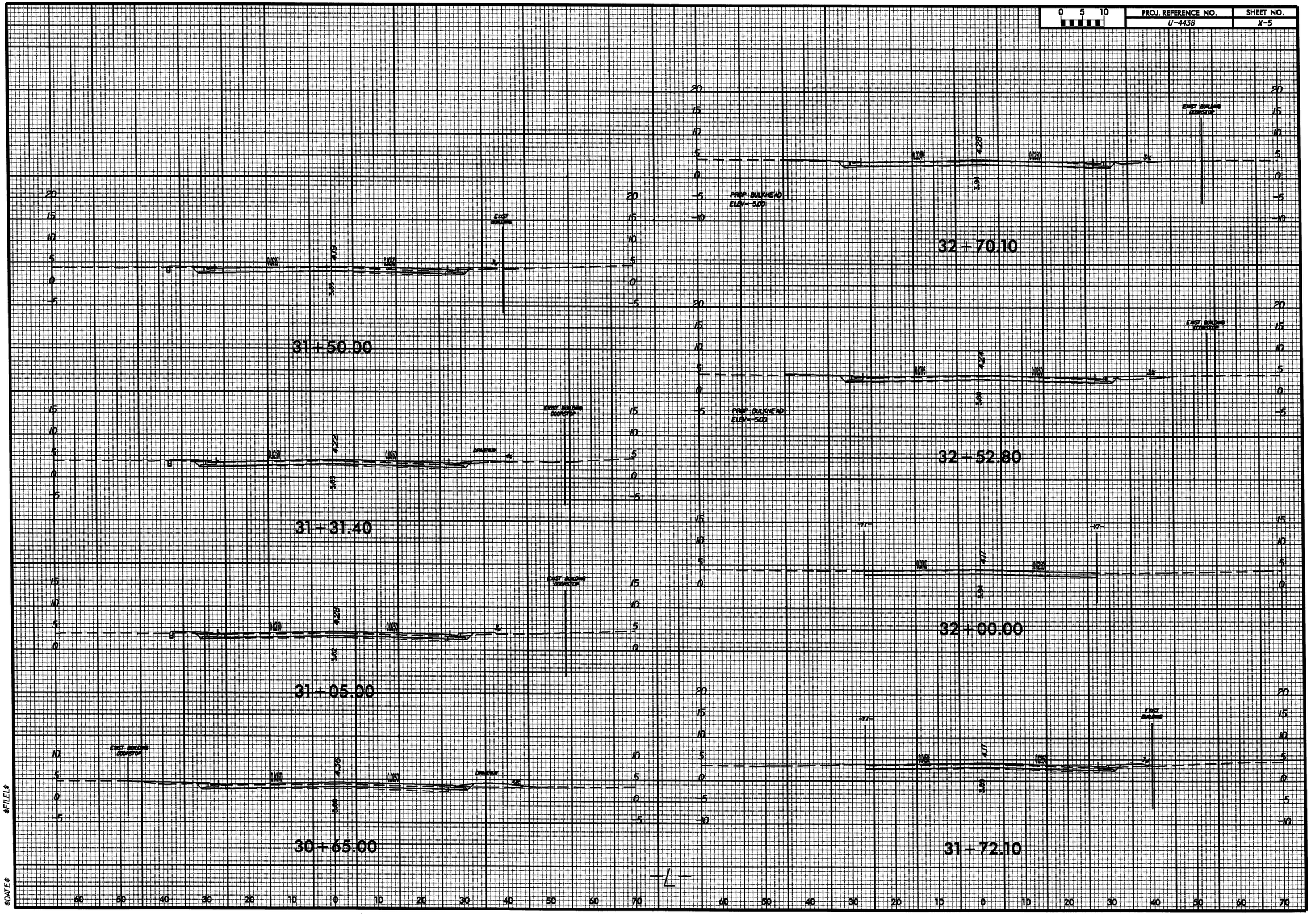
29+58.00

29+50.00

$FILE$

$DATE$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-5



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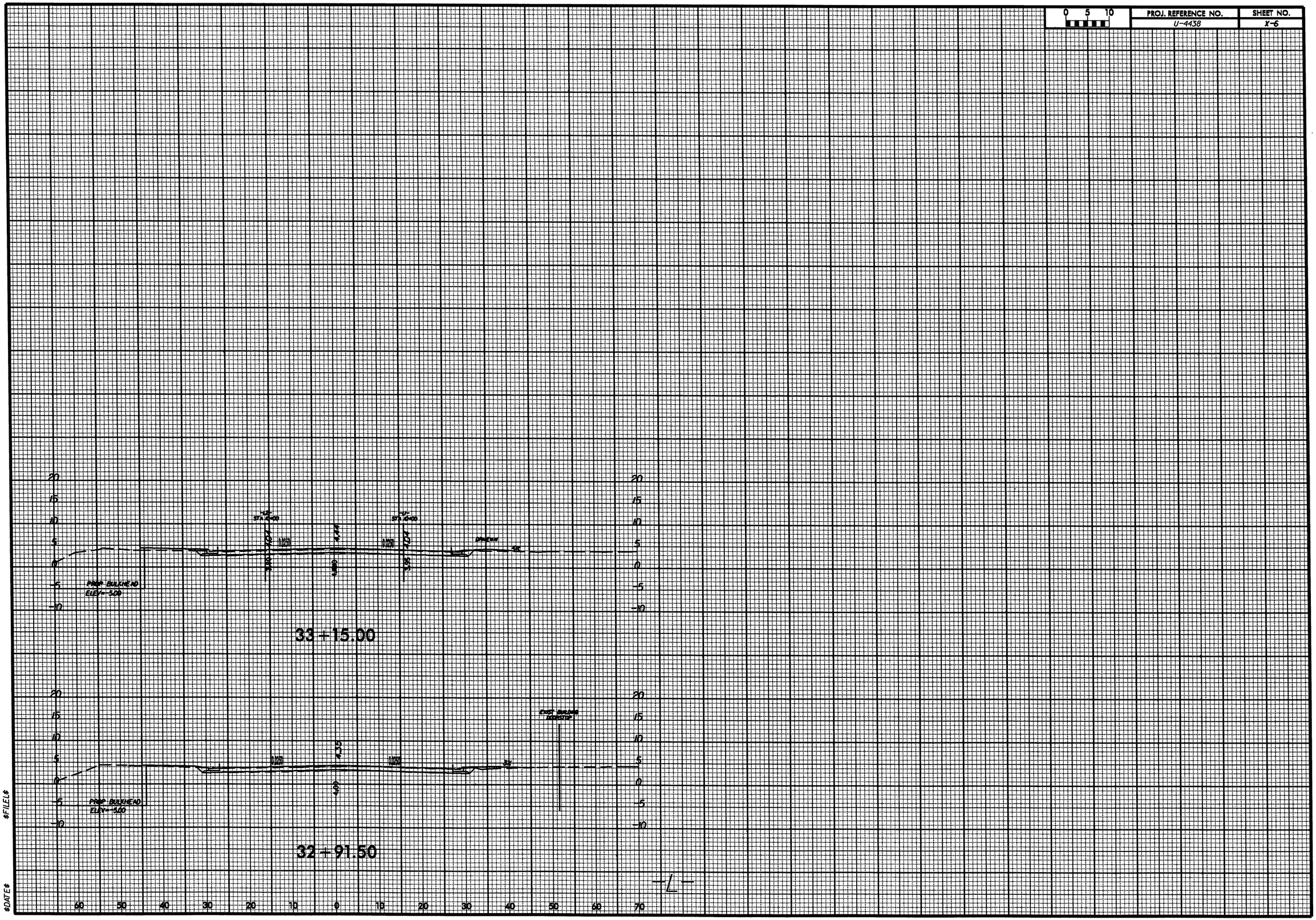
$DATE$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-6



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$DATE$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-7

11+85.00

11+80.00

11+75.00

11+50.00

11+00.00

10+50.00

12+10.00

12+05.00

11+99.90

11+95.00

11+90.00

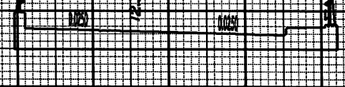
$FILE$

$DATE$

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-8

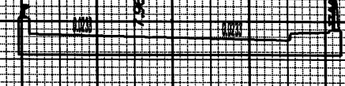
14+50.00

14+00.00



13+50.00

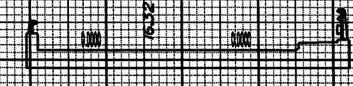
13+00.00



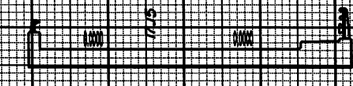
12+50.00

17+00.00

16+50.00



16+00.00



15+50.00

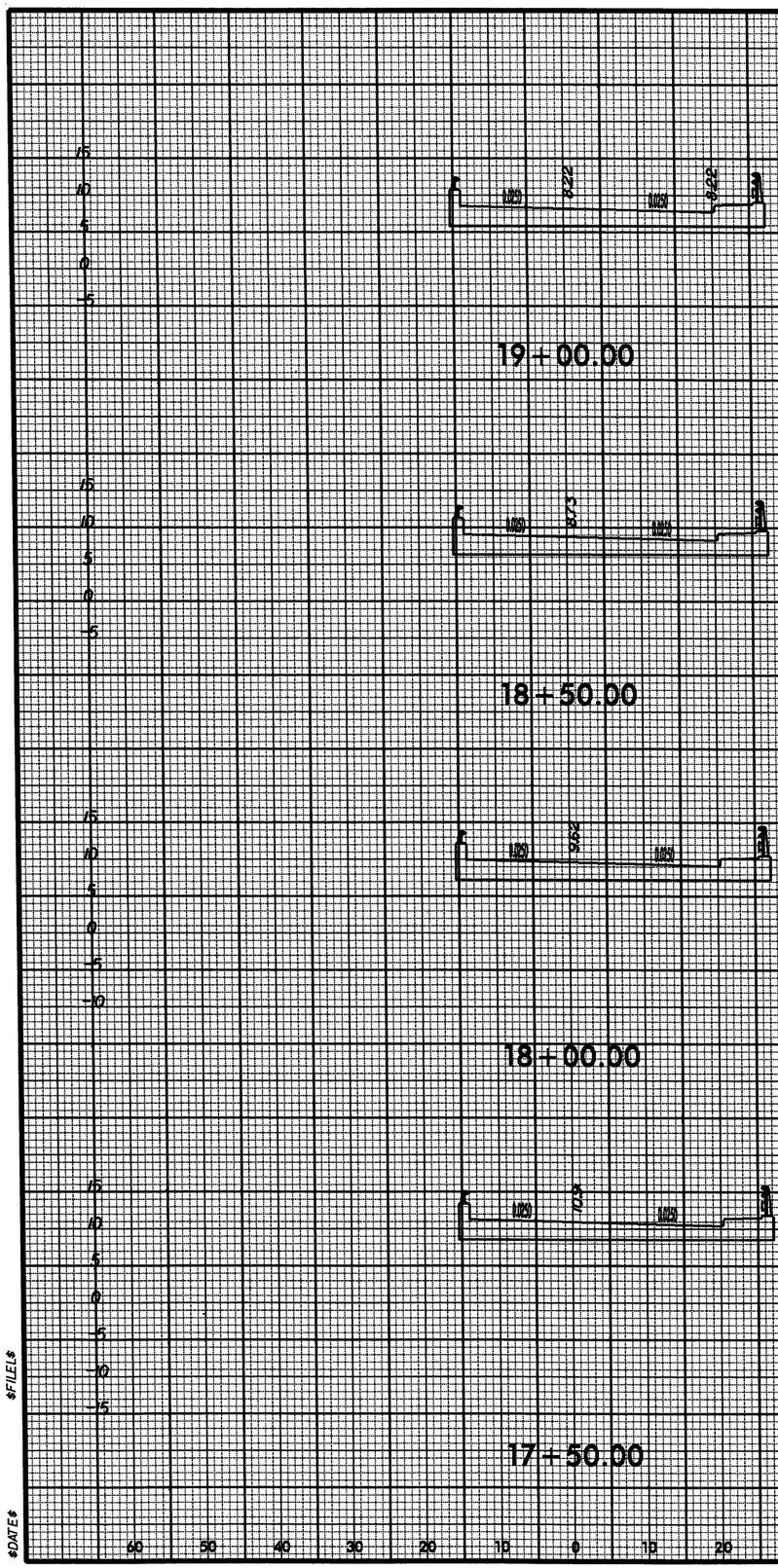
15+00.00

$FILE$

$DATE$

NOTE: EXIST GROUND CROSS SECTIONS FROM -L1- STA 20+51.50 TO STA 24+84.00 ARE BASED ON EXIST CONDITIONS PRIOR TO R-2414A CONSTRUCTION

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4438	X-9



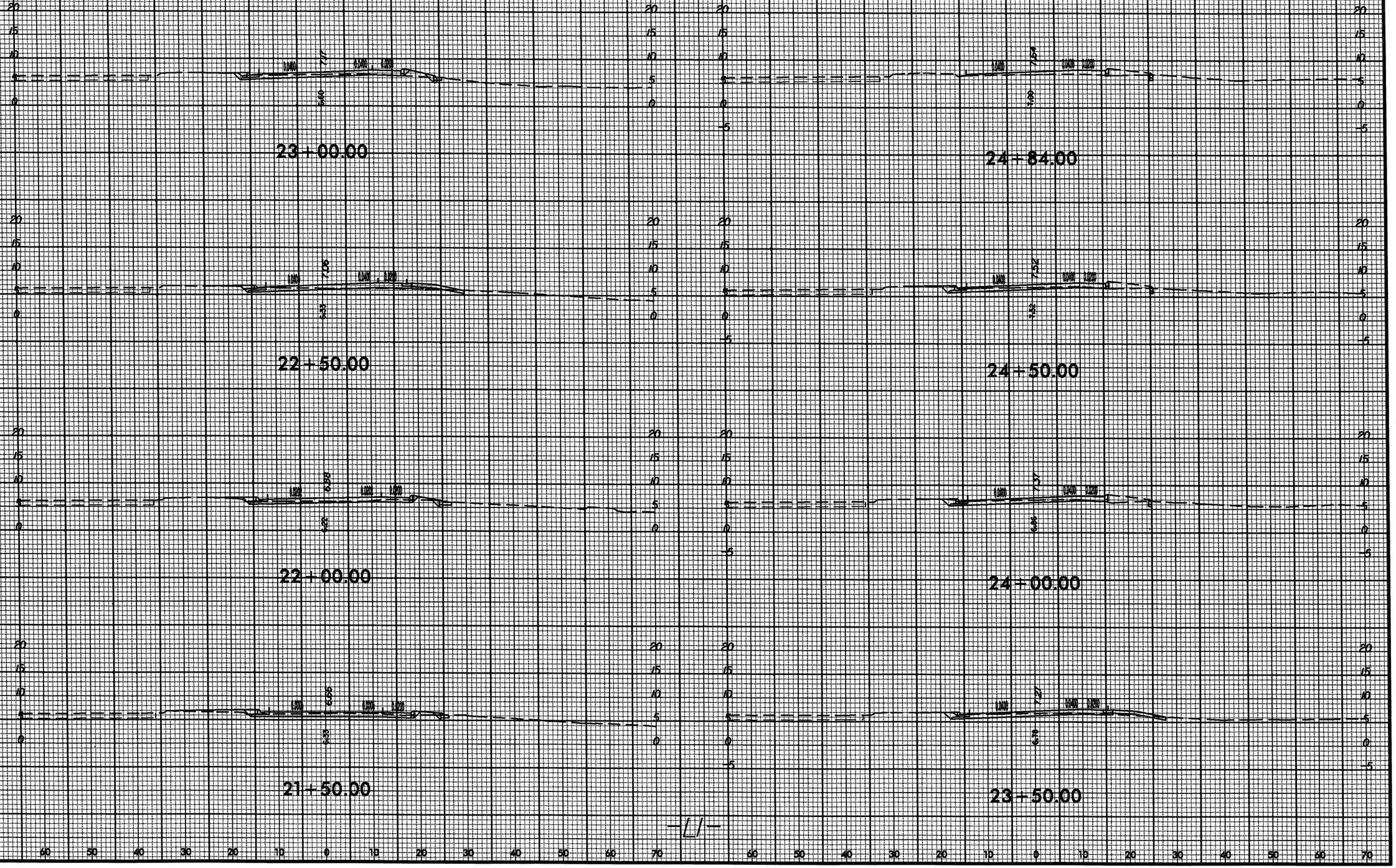
$FILE$

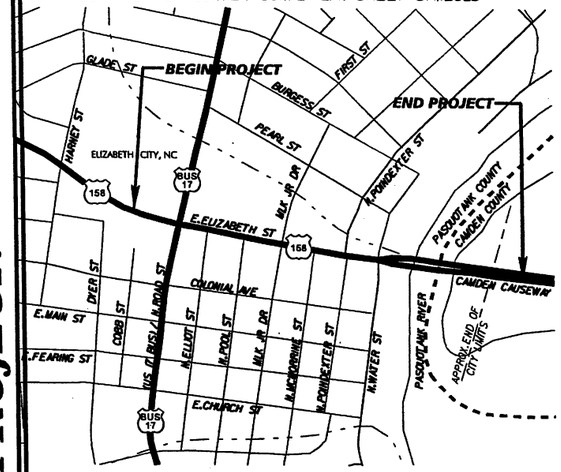
$DATE$

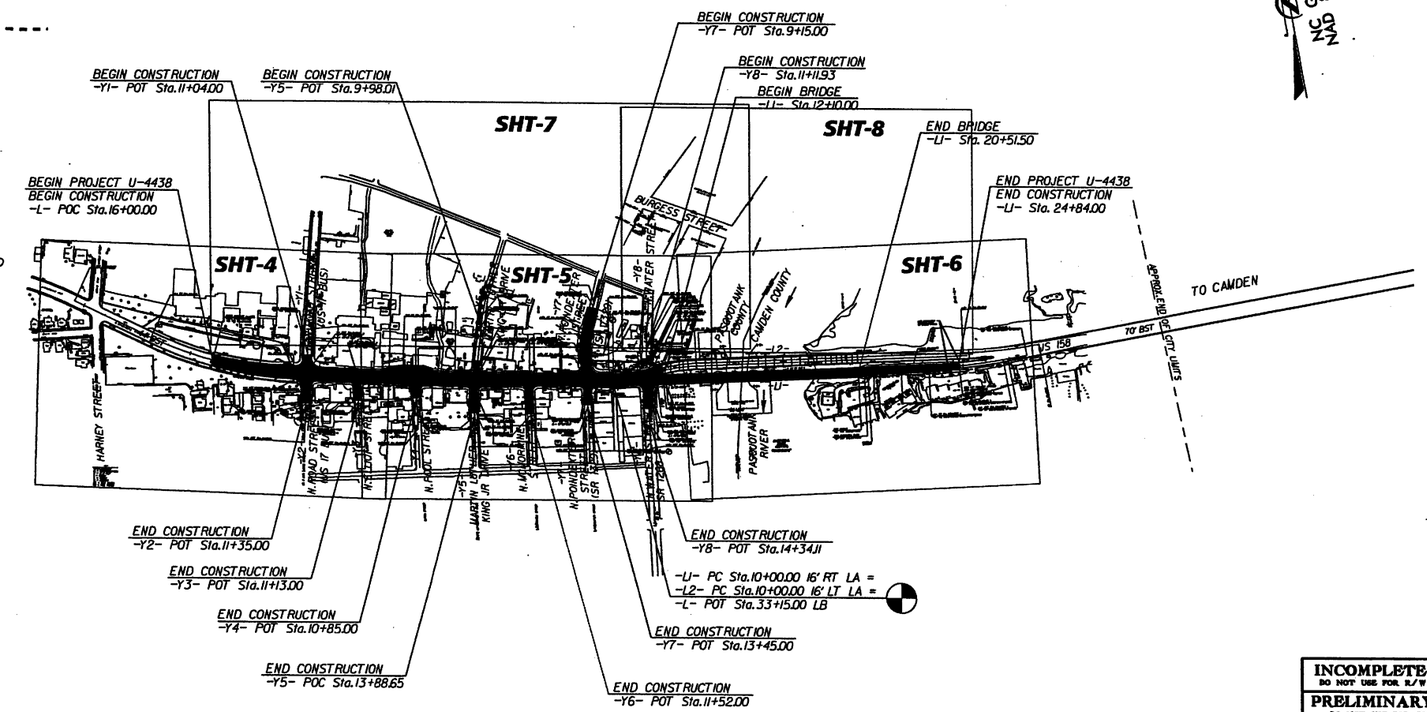
NOTE: EXIST GROUND CROSS SECTIONS FROM -L1- STA 20+51.50 TO STA 24+84.00 ARE BASED ON EXIST CONDITIONS PRIOR TO R-2414A CONSTRUCTION

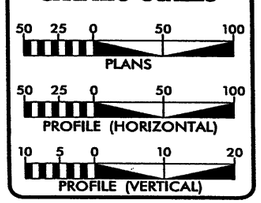
0 5 10

PROJ. REFERENCE NO.	SHEET NO.
U-4438	X-10









09/08/99

TIP PROJECT:

SEE SHEET 1-A FOR INDEX OF SHEETS
SEE SHEET 1-B FOR CONVENTIONAL PLAN SHEET SYMBOLS

T.I.P. NO.	SHEET NO.
U-4438	SH-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Utility
Permit Drawing
Sheet 1 of 8
August 9, 2010

PASQUOTANK & CAMDEN COUNTIES UTILITY CONSTRUCTION PLANS

US 158 (EAST ELIZABETH STREET) FROM US 17 BUSINESS (NORTH ROAD STREET) TO EAST OF PASQUOTANK RIVER

UTILITY RELOCATION PERMIT DRAWING PLANS
NO IMPACTS

NOTE: PROPOSED POWER POLES WILL BE JOINT-USE POLES WITH TELEPHONE AND CATV

LEGEND

○	EXISTING POLE
⊙	POLE TO BE REMOVED
⊘	POLE TO BE INSTALLED
⊗	POLE TO BE REPLACED
⌖	METAL STREETLIGHT POLE AND FIXTURE TO INSTALL
△	EXISTING OVERHEAD TRANSFORMER TO WORK AS NOTED
⊠ TX1	PADMOUNTED TRANSFORMER, SINGLE PHASE (SIZE AS INDICATED) TO INSTALL
———	EXISTING 7.2/12.47kv PRIMARY TO REMAIN
———	EXISTING 7.2/12.47kv PRIMARY TO REMOVE
— UP —	UNDERGROUND ELECTRICAL PRIMARY CONDUCTOR OR CONDUIT TO WORK AS NOTED
———	7.2/12.47kv OVERHEAD ELECTRICAL CONDUCTOR TO INSTALL, AS NOTED
———	SECONDARY TO BE REMOVED
———	SECONDARY TO WORK AS NOTED
— UG —	UNDERGROUND ELECTRICAL SECONDARY CONDUCTOR OR CONDUIT TO WORK AS NOTED
— SL —	1-2 INCH HDPE CONDUIT WITH ONE (1) NO. 2 UD TRIPLEX AND ONE (1) NO. 6 UD SINGLE FOR STREETLIGHTING, UNLESS OTHERWISE NOTED.
—●●—	SCADA CABLE
←—	DOWN GUY AND ANCHOR
⬡ SP1	SECONDARY PEDESTAL TO INSTALL
⬡ SP1	SECONDARY PEDESTAL TO REMOVE
■ PC1	PRIMARY CABINET, SINGLE PHASE OR MULTI-PHASE TO INSTALL
■	SECONDARY HANDHOLE IN SIDEWALK FOR STREETLIGHTING
HH	ELECTRIC PRIMARY HANDHOLE
✿	TREE TO TRIM OR REMOVE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
SHT-1	TITLE SHEET
SHT-4 THRU SHT-8	UTILITY CONSTRUCTION PLAN SHEETS
SHT-9 THRU SHT-10	PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

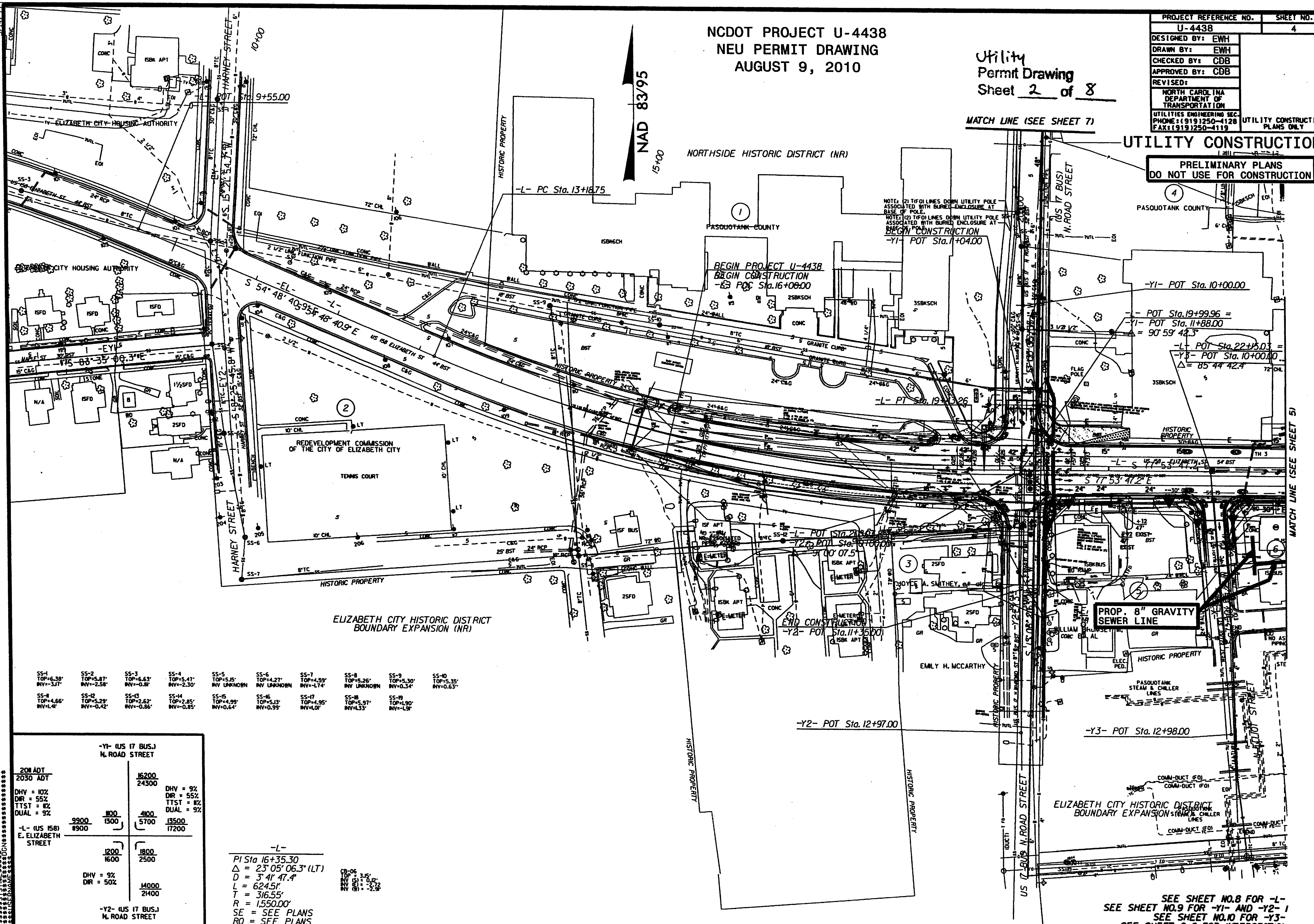
(1) WATER...ELIZABETH CITY
(2) SANITARY SEWER...ELIZABETH CITY
(3) POWER...ELIZABETH CITY
(4) TELEPHONE...CENTURYLINK
(5) NATURAL GAS...PIEDMONT NATURAL GAS
(6) CABLE-TV...TIME-WARNER

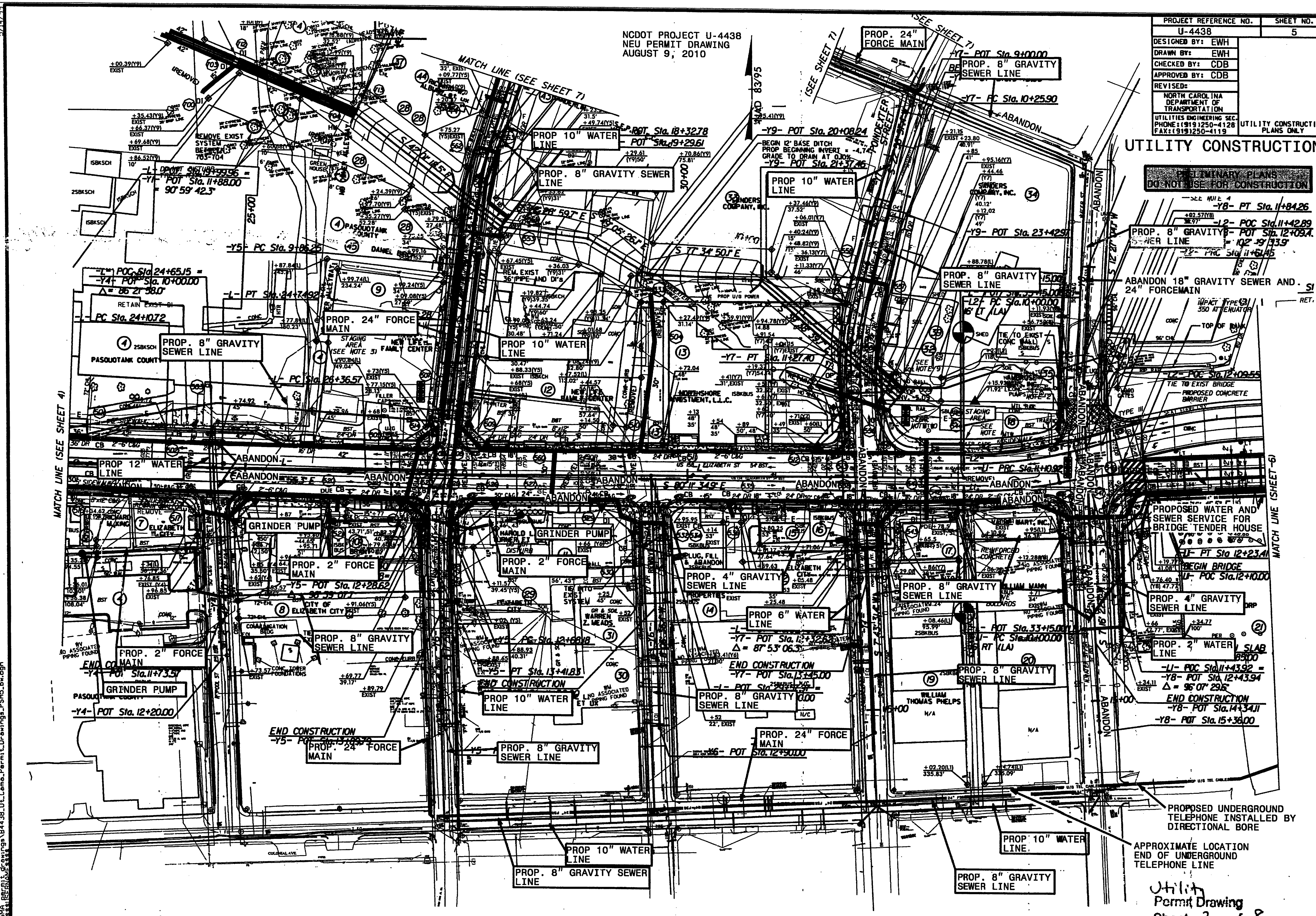
SEAL

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

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

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


NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010
Utility Permit Drawing Sheet 2 of 8
PROJECT REFERENCE NO. U-4438
SHEET NO. 4
DESIGNED BY: EWH
DRAWN BY: EWH
CHECKED BY: CDB
APPROVED BY: CDB
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE:(919)250-4128 FAX:(919)250-4119
UTILITY CONSTRUCTION PLANS ONLY
UTILITY CONSTRUCTION
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION
NAD 83/95
MATCH LINE (SEE SHEET 7)
MATCH LINE (SEE SHEET 5)
NORTHSIDE HISTORIC DISTRICT (NR)
PASQUOTANK COUNTY
ELIZABETH CITY HOUSING AUTHORITY
REDEVELOPMENT COMMISSION OF THE CITY OF ELIZABETH CITY
TENNIS COURT
HARNEY STREET
US 158 ELIZABETH ST
US 17 BUS N. ROAD STREET
HISTORIC PROPERTY
-L- PC Sta. 13+18.75
BEGIN PROJECT U-4438
BEGIN CONSTRUCTION
-Y1- POT Sta. 11+04.00
-Y1- POT Sta. 10+00.00
-L- POT Sta. 19+99.96 = -Y1- POT Sta. 11+88.00
-L- POT Sta. 22+13.03 = -Y3- POT Sta. 10+00.00
-L- PT Sta. 19+13.26
S 54° 48' 40.9" E
S 77° 53' 47.2" E
END CONSTRUCTION -Y2- POT Sta. 11+35.00
-Y2- POT Sta. 12+97.00
-Y3- POT Sta. 12+98.00
JOYCE A. SMITHEY, et al
EMILY H. MCCARTHY
PROP. 8" GRAVITY SEWER LINE
ELIZABETH CITY HISTORIC DISTRICT BOUNDARY EXPANSION (NR)
SS-1 TOP=6.38' INV=-3.17'
SS-2 TOP=5.87' INV=-2.58'
SS-3 TOP=6.63' INV=-0.81'
SS-4 TOP=5.47' INV=-2.30'
SS-5 TOP=5.15' INV UNKNOWN
SS-6 TOP=4.27' INV UNKNOWN
SS-7 TOP=4.59' INV=-1.74'
SS-8 TOP=5.26' INV UNKNOWN
SS-9 TOP=5.30' INV=0.34'
SS-10 TOP=5.35' INV=0.63'
SS-11 TOP=4.66' INV=1.41'
SS-12 TOP=5.29' INV=-0.42'
SS-13 TOP=2.62' INV=-0.86'
SS-14 TOP=2.85' INV=-0.85'
SS-15 TOP=4.99' INV=0.64'
SS-16 TOP=5.13' INV=0.99'
SS-17 TOP=4.95' INV=1.01'
SS-18 TOP=5.97' INV=1.33'
SS-19 TOP=1.90' INV=-1.91'
-Y1- (US 17 BUS.) N. ROAD STREET
2011 ADT 2030 ADT
DHV = 10% DIR = 55% TTST = 1% DUAL = 9%
-L- (US 158) E. ELIZABETH STREET
-Y2- (US 17 BUS.) N. ROAD STREET
-L- PI Sta 16+35.30
Δ = 23° 05' 06.3" (LT)
D = 3° 41' 47.4"
L = 624.51'
T = 316.55'
R = 1,550.00'
SE = SEE PLANS
RO = SEE PLANS
SEE SHEET NO.8 FOR -L-
SEE SHEET NO.9 FOR -Y1- AND -Y2-
SEE SHEET NO.10 FOR -Y3-
SEE SHEET 2-C FOR INTERSECTION



NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010
PROJECT REFERENCE NO. U-4438
SHEET NO. 5
DESIGNED BY: EWH
DRAWN BY: EWH
CHECKED BY: CDB
APPROVED BY: CDB
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)250-4128
FAX:(919)250-4119
UTILITY CONSTRUCTION PLANS ONLY
UTILITY CONSTRUCTION
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION
MATCH LINE (SEE SHEET 7)
MATCH LINE (SEE SHEET 4)
MATCH LINE (SHEET 6)
PROP. 24" FORCE MAIN
PROP. 8" GRAVITY SEWER LINE
PROP. 10" WATER LINE
PROP. 12" WATER LINE
PROP. 2" FORCE MAIN
PROP. 4" GRAVITY SEWER LINE
PROP 6" WATER LINE
PROP. 4" GRAVITY SEWER LINE
PROP. 2" WATER LINE
GRINDER PUMP
ABANDON
ABANDON 18" GRAVITY SEWER AND 24" FORCEMAIN
PROPOSED WATER AND SEWER SERVICE FOR BRIDGE TENDER HOUSE
PROPOSED UNDERGROUND TELEPHONE INSTALLED BY DIRECTIONAL BORE
APPROXIMATE LOCATION END OF UNDERGROUND TELEPHONE LINE
END CONSTRUCTION
PASQUOTANK COUNTY
CITY OF ELIZABETH CITY
SANDERS COMPANY, INC.
NORTHSHORE INVESTMENT, L.L.C.
WILLIAM THOMAS PHELPS
BEGIN BRIDGE
TIE TO EXIST BRIDGE
STAGING AREA
Utility Permit Drawing
Sheet 3 of 8

NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	6

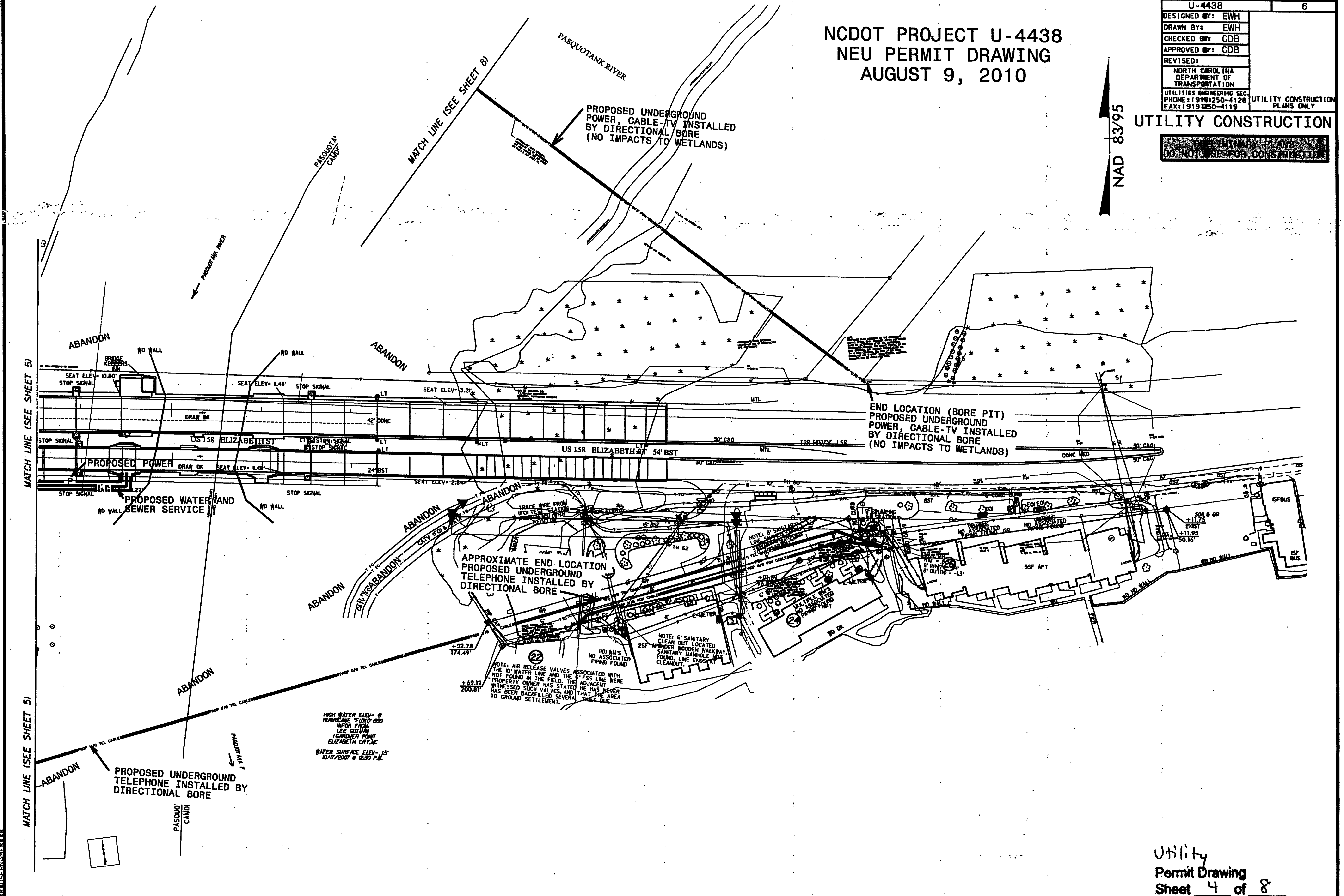
DESIGNED BY: EWH
DRAWN BY: EWH
CHECKED BY: CDB
APPROVED BY: CDB
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 250-4128
FAX: (919) 250-4119

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



NAD 83/95
PASQUOTANK RIVER
MATCH LINE (SEE SHEET 8)
PROPOSED UNDERGROUND POWER, CABLE-TV INSTALLED BY DIRECTIONAL BORE (NO IMPACTS TO WETLANDS)
MATCH LINE (SEE SHEET 5)
ABANDON
BRIDGE KEEPERS INN
WD WALL
SEAT ELEV= 10.80'
STOP SIGNAL
SEAT ELEV= 11.48'
SEAT ELEV= 3.21
DRAW DK
42' CONC
US 158 ELIZABETH ST
US 158 ELIZABETH ST 54' BST
US HWY 158
PROPOSED POWER
24' BST
SEAT ELEV= 2.84
PROPOSED WATER AND SEWER SERVICE
END LOCATION (BORE PIT) PROPOSED UNDERGROUND POWER, CABLE-TV INSTALLED BY DIRECTIONAL BORE (NO IMPACTS TO WETLANDS)
APPROXIMATE END LOCATION PROPOSED UNDERGROUND TELEPHONE INSTALLED BY DIRECTIONAL BORE
CITY R/W ABANDON
3SF APT
ISF BUS
NOTE: 6" SANITARY CLEAN OUT LOCATED UNDER WOODEN WALKWAY. SANITARY MANHOLE NOT FOUND. LINE ENDS AT CLEANOUT.
NOTE: AIR RELEASE VALVES ASSOCIATED WITH THE 10" WATER LINE AND THE 5" FSS LINE WERE NOT FOUND IN THE FIELD. THE ADJACENT PROPERTY OWNER HAS STATED HE HAS WITNESSED SUCH VALVES, AND THAT THE AREA HAS BEEN BACKFILLED SEVERAL TIMES DUE TO GROUND SETTLEMENT.
+52.78 174.49
+69.12 200.81
HIGH WATER ELEV= 6' HURRICANE "FLOYD" 1999 INFOR FROM: LEE GUTWAN 1 GARDNER POINT ELIZABETH CITY, NC
WATER SURFACE ELEV= 1.5' 10/11/2007 @ 12:30 P.M.
PROPOSED UNDERGROUND TELEPHONE INSTALLED BY DIRECTIONAL BORE

Utility
Permit Drawing
Sheet 4 of 8

NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	7

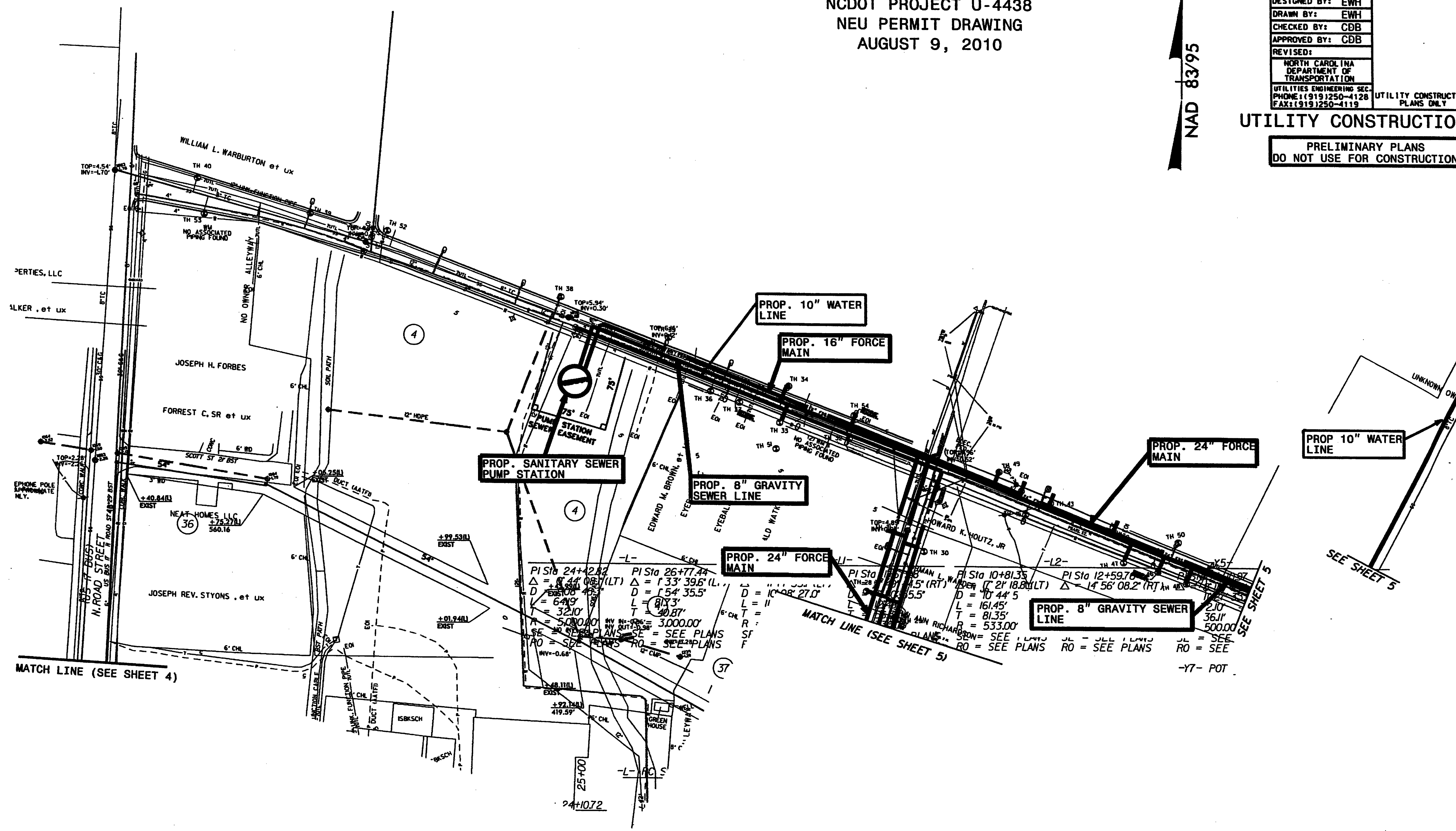
DESIGNED BY: EWH
DRAWN BY: EWH
CHECKED BY: CDB
APPROVED BY: CDB
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919)250-4128
FAX: (919)250-4119

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



NAD 83/95
WILLIAM L. WARBURTON et ux
JOSEPH H. FORBES
FORREST C. SR et ux
JOSEPH REV. STYONS , et ux
NEAT HOMES LLC
EDWARD M. BROWN, et
HOWARD K. HOUTZ, JR
NO OWNER ALLEYWAY
PROP. 10" WATER LINE
PROP. 16" FORCE MAIN
PROP. 24" FORCE MAIN
PROP. SANITARY SEWER PUMP STATION
PROP. 8" GRAVITY SEWER LINE
PROP. 24" FORCE MAIN
PROP. 8" GRAVITY SEWER LINE
PROP 10" WATER LINE
PUMP STATION SEWER EASEMENT
N. ROAD STREET
MATCH LINE (SEE SHEET 4)
MATCH LINE (SEE SHEET 5)
SEE SHEET 5
SEE SHEET 5
UNKNOWN OWN

Utility
Permit Drawing
Sheet 5 of 8

5/14/99

NCDOT PROJECT U-4438
NEU PERMIT DRAWING
AUGUST 9, 2010

PROJECT REFERENCE NO.	SHEET NO.
U-4438	8
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: EWH	
APPROVED BY: CDB	
REVISED:	

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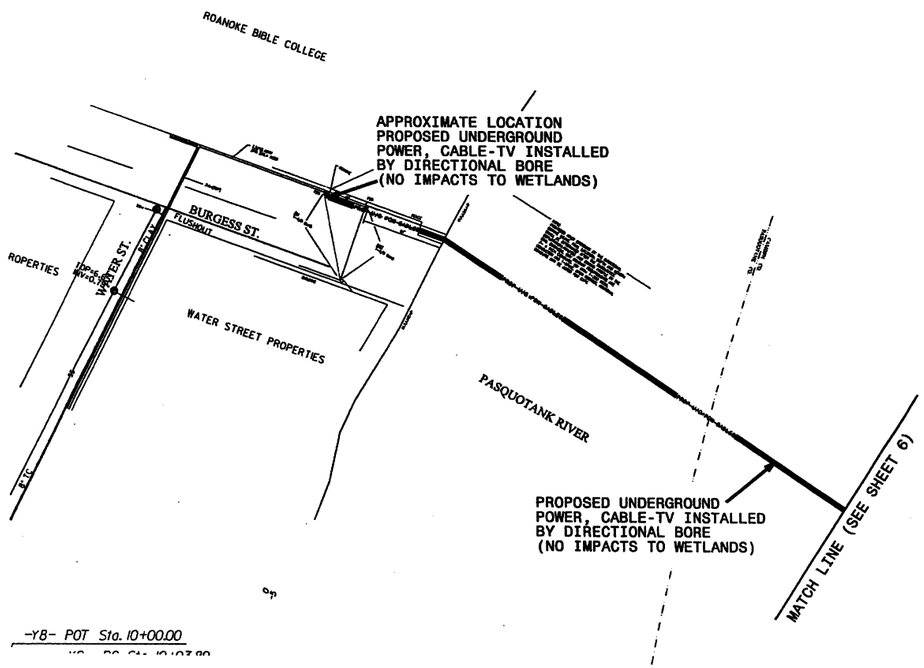
UTILITIES ENGINEERING SEC.
PHONE: (919) 250-4128
FAX: (919) 250-4119

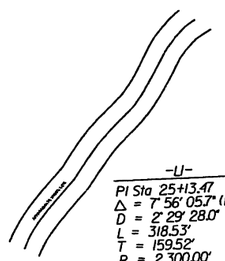
UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/95



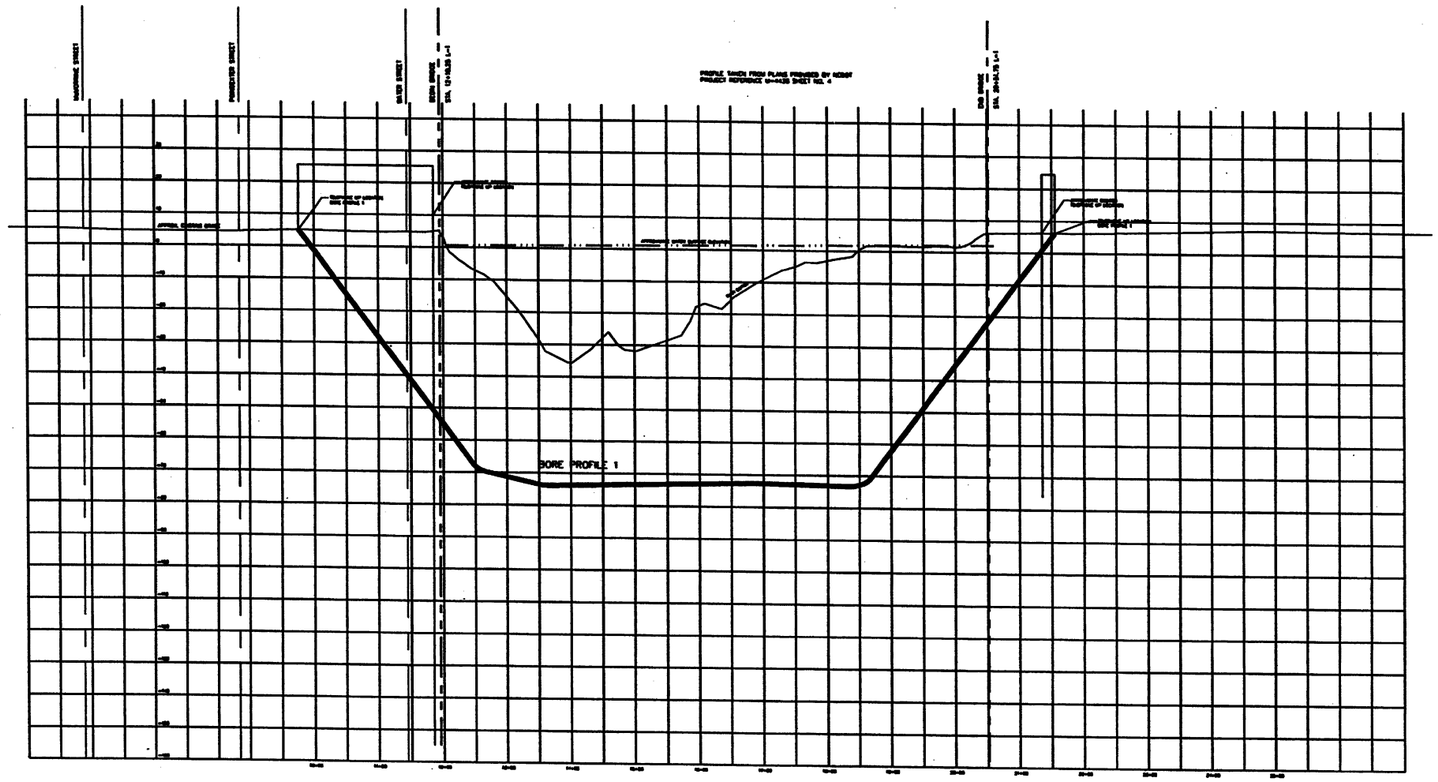


-L1-
PI Sta 25+13.47
Δ = 1° 56' 05.7" (LT)
D = 2° 29' 28.0"
L = 318.53'
T = 159.52'
R = 2,300.00'
SE = SEE PLANS
RO = SEE PLANS

-L2-
PI Sta 26+67.81
Δ = 8° 27' 32.9" (LT)
D = 2° 36' 15.7"
L = 324.81'
T = 162.70'
R = 2,200.00'

Utility
Permit Drawing
Sheet 6 of 8

U-4438 NEU PERMIT DRAWING
PROPOSED TELEPHONE PROFILE
UNDER PASQUOTANK RIVER
AUGUST 9, 2010



SCALE
HORIZONTAL: 1" = 100'
VERTICAL: 1" = 20'

Utility
Permit Drawing
Sheet 7 of 8

HYMAN ROBEY
SOLUTIONS FROM THE GROUND UP
150 US Hwy 158 E.
PO Box 339
Camden, NC 27921
(252) 338-2913
(252) 338-5552 fax
www.hymanrobey.com
License C-0598

PRELIMINARY
DO NOT USE FOR CONSTRUCTION, BIDDING, OR RECORDATION.

DIRECTIONAL BORE DIAGRAM FOR THE PASQUOTANK RIVER BRIDGE REPLACEMENT

ELIZABETH CITY

NORTH CAROLINA

KEY PLAN:

Project #: 100139
Drawing #: 100139 Bridge Bore Profile
Drawn: KDH
Checked: SCR
Approved: SCR
Date: 07/29/10
Sheet #: 1/1
Scale: AS SHOWN

REVISIONS:
NUM. DATE DESCRIPTION

SHEET TITLE:
BORE PROFILE

SHEET NUMBER:
SHT-9