



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 25, 2011

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

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

Dear Sirs:

Subject: Application for Section 404 Nationwide Permit 23 and CAMA Major Development Permit for the replacement of Bridge #12 over Queen Anne Creek on NC 32 in Chowan County. State Project No. 8.1030501. Federal Aid Project Number STP-0032(8). Debit \$400 from WBS 33713.3.1.TIP No. B-4463.

The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace Bridge No. 12 in Chowan County. The proposed let date for the project is October 18, 2011 with a review date of August 18, 2011; however, the let date may advance as additional funds become available.

Please find enclosed a Pre-Construction Notification (PCN) form, permit drawings, utility drawings/narrative, roadway plans, North Carolina Division of Coastal Management Major Permit Forms 1 and 5, a copy of the State Stormwater Permit Exclusion, EEP Mitigation Acceptance Letter. Adjacent riparian landowner return receipts will be forwarded once they become available. A Categorical Exclusion (CE) was completed for this project on November 6, 2008, and distributed shortly thereafter. Additional copies are available upon request.

Regulatory Approvals

CAMA: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. The adjacent riparian landowner certified mail receipts are provided with this permit application. Authorization to debit the \$400 Permit Application Fee from WBS Element 33713.3.1 is hereby given.

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that a Nationwide Permit 23 authorize these activities.

Section 401 Permit: We anticipate 401 General Certification number 3701 will apply to this project. NCDOT will adhere to all standard conditions of these certifications. NCDOT is providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their review.

A copy of this permit application will be posted on the NCDOT website at:
<http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html>

If you have any questions or need additional information, please call Mr. Chris Manley, at 919-431-6746.

Sincerely,



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

cc List:

W/attachment

Mr. Brian Wrenn, NCDWQ (2 copies)
Ms. Cathy Brittingham, NCDCM

W/o attachment (see website for attachments)

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
Ms. Beth Harmon, EEP
Mr. Phillip Ayscue, NCDOT External Audit Branch
Ms. Christy Huff, PDEA Project Planning Engineer



January 20, 2011

Mr. Gregory J. Thorpe, Ph.D.
Manager, Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

B-4463, Replace Bridge Number 12 over Queen Anne Creek on NC 32, Chowan County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory riparian wetland mitigation for the subject project. Based on the information supplied by you on January 19, 2011, the impacts are located in CU 03010205 of the Pasquotank River Basin in the Northern Outer Coastal Plain (NOCP) Eco-Region, and are as follows:

Pasquotank 03010205 NOCP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.11	0	0	0	0
Mitigation Units (Credits-up to 2:1)	0	0	0	0.22	0	0	0	0

EEP commits to implementing sufficient compensatory riparian wetland mitigation credits to offset the impacts associated with this project in accordance with the N.C. Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,

William D. Gilmore, P.E.
EEP Director

cc: Mr. Bill Biddlecome, USACE – Washington Regulatory Field Office
Mr. Brian Wrenn, Division of Water Quality, Wetlands/401 Unit
File: B-4463

Restoring... Enhancing... Protecting Our State





North Carolina Department of Environment and Natural Resources

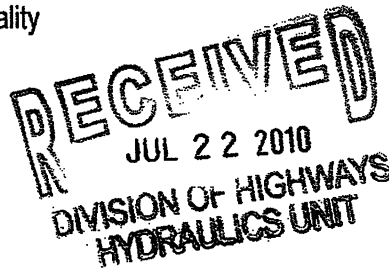
Division of Water Quality

Beverly Eaves Perdue
Governor

Coleen H. Sullins
Director

Dee Freeman
Secretary

July 16, 2010



Mr. Marshall Clawson
NCDOT – Hydraulics Unit
1590 Mail Service Center
Raleigh, NC 27699-1590

**Subject: Stormwater Permit Exclusion – NC DOT Activity
Replacement of Bridge No.12 on NC 32, B-4463
Over Queen Anne Creek
Stormwater Project No. SW7100502
Chowan County**

Dear Mr. Henderson:

On May 20, 2010, the Washington Regional Office of the Division of Water Quality received a Coastal Stormwater Permit Application for project B-4463, the replacement of Bridge No. 12, located over Queen Anne Creek on NC 32 in Chowan County. Staff review of the plans and supporting documents has determined that the project proposes activities that are excluded from State Stormwater permitting requirements as set forth in Section 2.(d)(1) of Session Law 2008-211, effective October 1, 2008, and the stormwater rules under Title 15A NCAC 2H .1000, as amended.

Therefore, the Director of the Division of Water Quality is hereby providing confirmation that the subject project is excluded from State Stormwater permitting requirements, being an activity of the NC DOT that is regulated in accordance with the provisions of the NC DOT's National Pollutant Discharge Elimination System (NPDES) Stormwater Permit.

Under Section 15A NCAC 2H .1003, any future development or changes to the proposed development, including but not limited to, the locations of the built-upon area and construction of additional built-upon area, may require approval or a Stormwater Management permit application and permit issuance from the Division of Water Quality prior to any construction. Any construction on the site prior to receipt of the required approval or permit will constitute a violation of Title 15A NCAC 2H.1000 and Session Law 2008-211, and may result in the initiation of appropriate enforcement action.

Please keep in mind that this determination does not affect your legal obligation to obtain other permits and approvals, which may be required by Federal, State, or local government agencies, rule or law. If you have any questions, or need additional information concerning this matter, please contact either Scott Vinson or me at (252) 946-6481.

Sincerely,

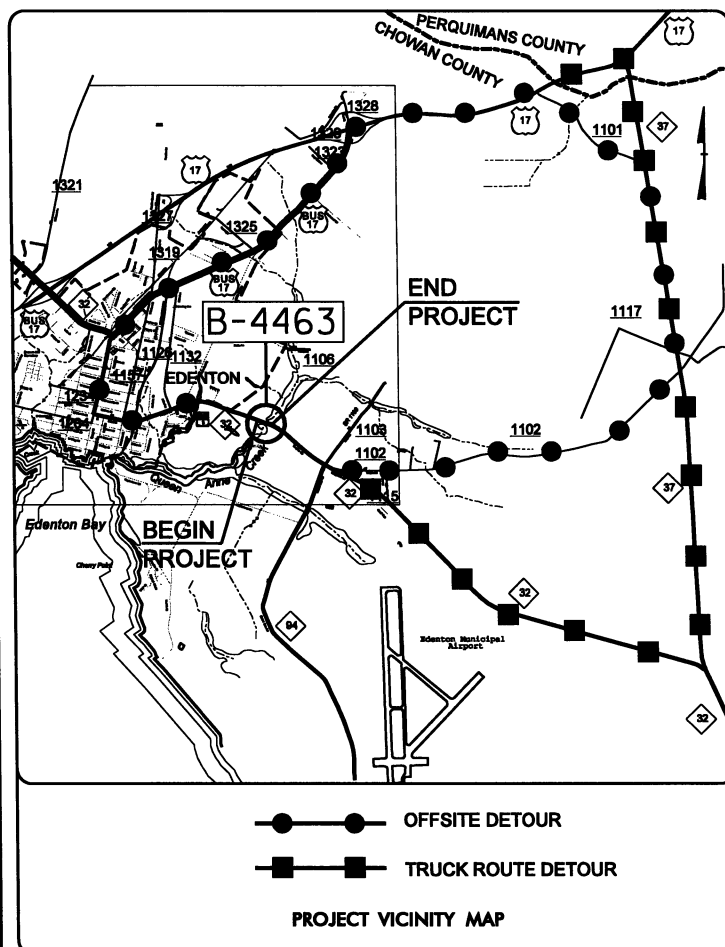


A. Hodge
Regional Supervisor
Surface Water Protection Section

AH/sv: K:\SAV\K-STORMWATER\EXCLUSIONS\SW7100502

cc: Washington Regional Office
Central Files

See Sheet 1-A For Index of Sheets



90% PLANS

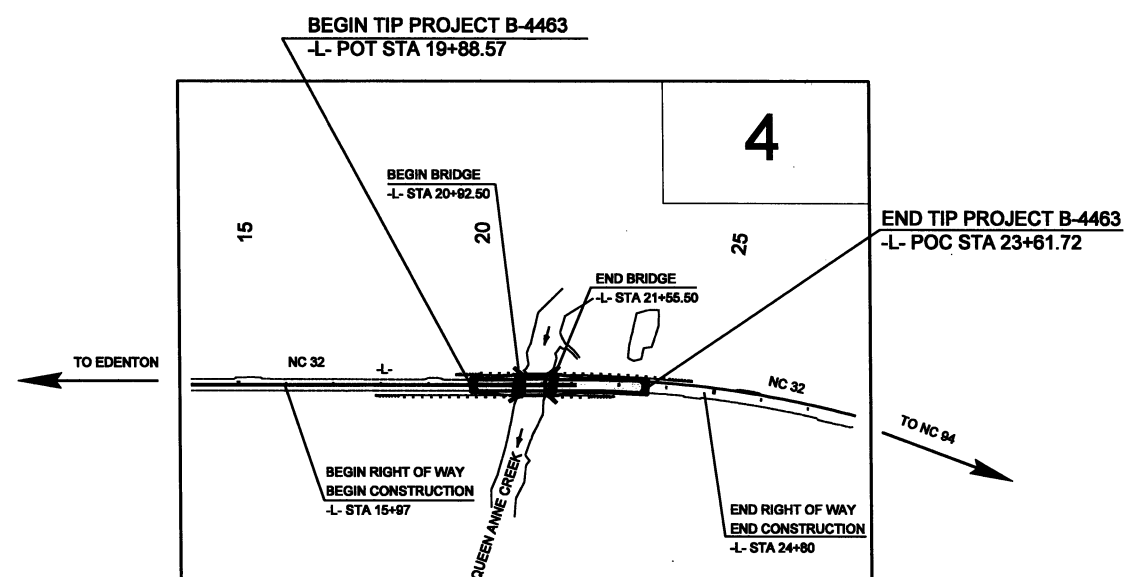
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CHOWAN COUNTY

**LOCATION: BRIDGE NO. 12 OVER QUEEN ANNE CREEK
ON NC 32**

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

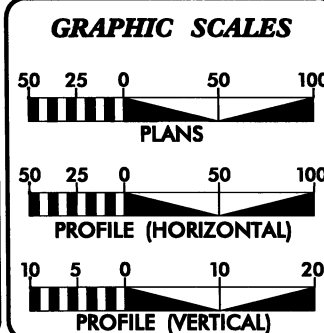
PERMIT DRAWINGS

Permit Drawing
Sheet 1 of 8

NC GRID
NAD 83/9

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:



DESIGN DATA

ADT 2011 = 6280
ADT 2030 = 9200
DHV = 10 %
D = 60 %
T = 5% (TTST 2%, DUAL 3%)
V = 60 MPH

FUNC CLASS = MAJOR COLLECTOR

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4463	=	0.059 MILE
LENGTH STRUCTURE TIP PROJECT B-4463	=	0.012 MILE
TOTAL LENGTH TIP PROJECT B-4463	=	0.071 MILE

NCDOT Contact: B. Doug Taylor, PE
Roadway Design-Engineering Coordination

Prepared In the Office of
DYER, RIDDLE, MILLS & PRECOURT, INC. (DRMP)
 7506 EAST INDEPENDENCE BLVD., SUITE 105
 CHARLOTTE, NORTH CAROLINA 28227
 (704) 332-2289 NC LICENSE NO. C-2213

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 15, 2010

LETTING DATE:
OCTOBER 18, 2011

Ronald C. Smith, PE
PROJECT ENGINEER

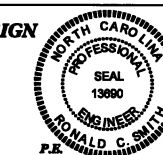
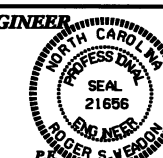
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____

**ROADWAY DESIGN
ENGINEER**

SIGNATURE



DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



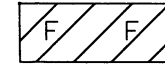
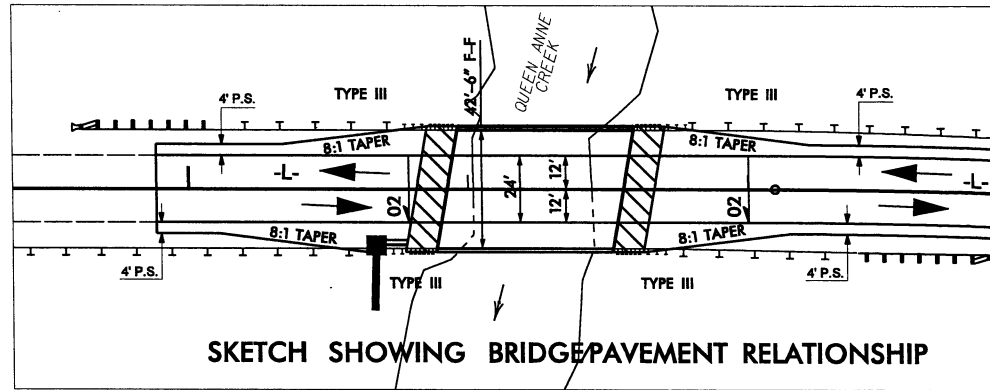
STATE HIGHWAY DESIGN ENGINEER



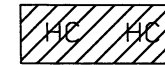
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REVISIONS

8/20/2000
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10/26/2000



DENOTES FILL IN WETLAND



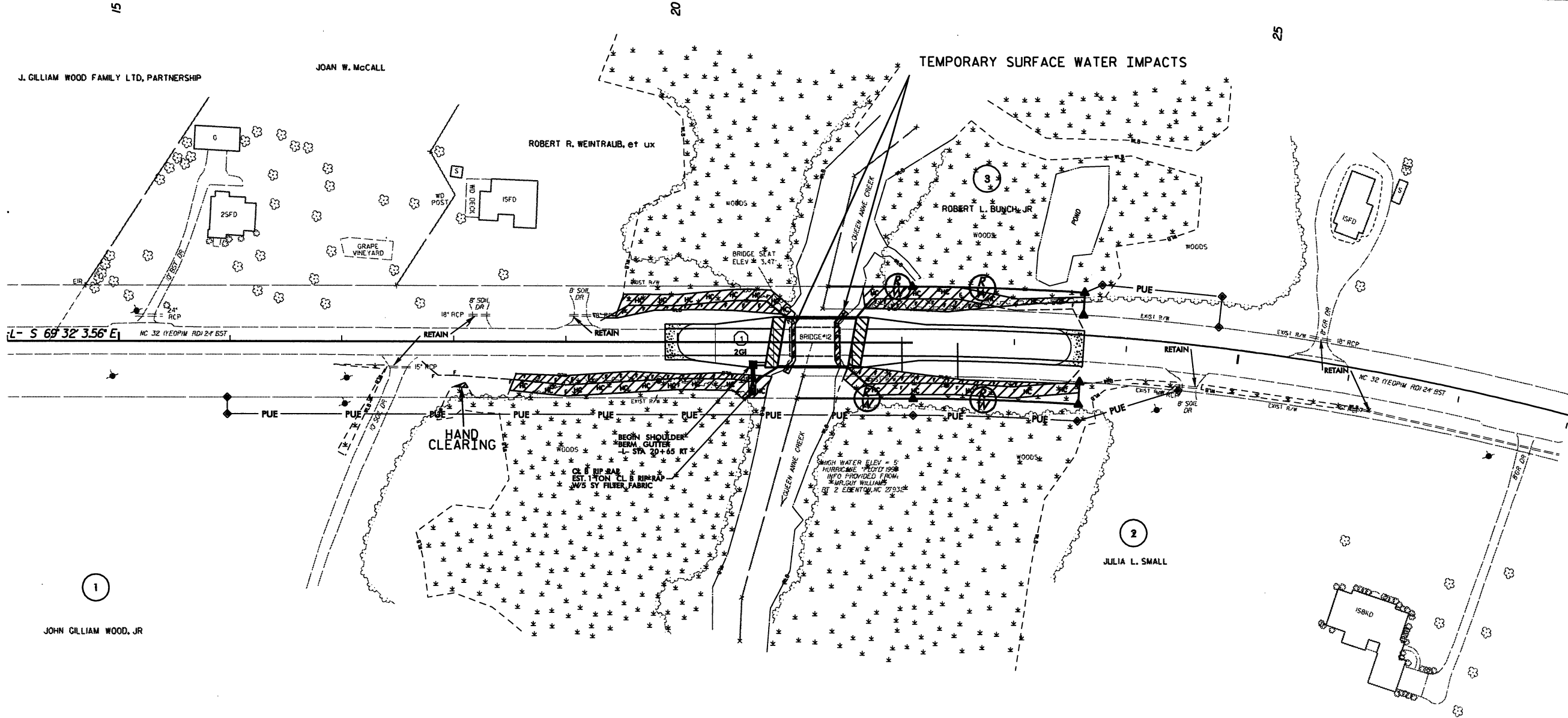
DENOTES HAND CLEARING



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. B-4463		SHEET NO. 4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
DRMP/MA Engineering Consultants, Inc. 1704 33rd Street, Suite 102 Charlotte, NC 28227 Phone 704.337.2222 Fax 704.337.2221 NC License No. 1-220			

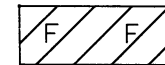
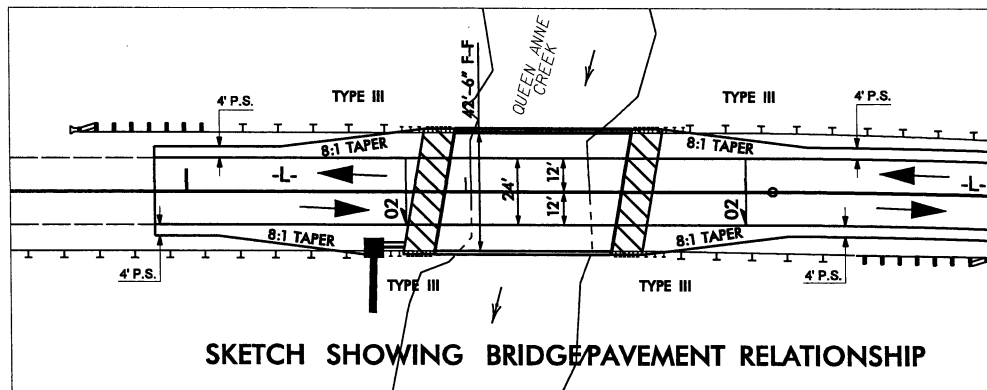


Permit Drawing
Sheet 3 of 8

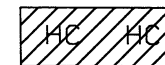
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REVISIONS

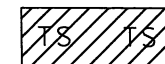
8/20/2000
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10/25/07



DENOTES FILL IN
WETLAND



DENOTES HAND
CLEARING

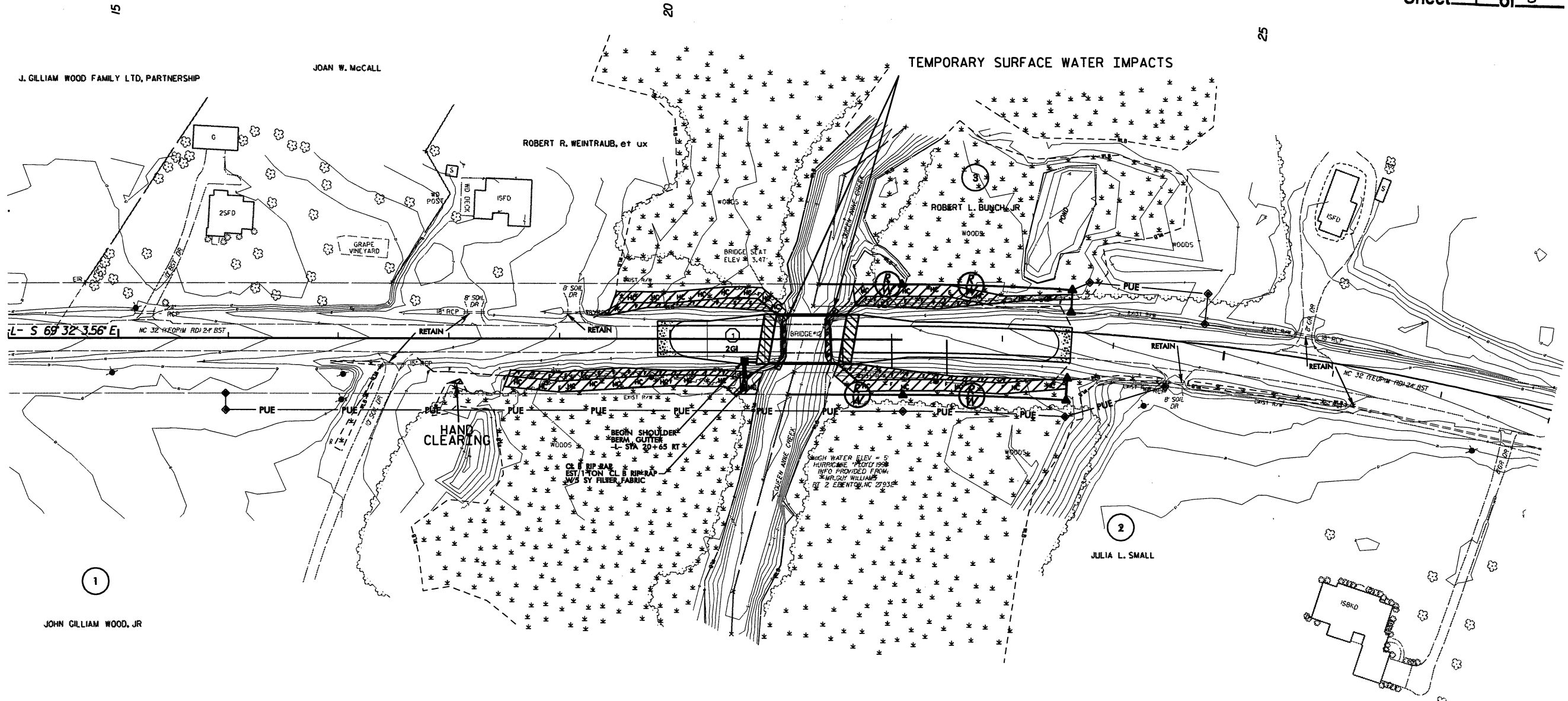


DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



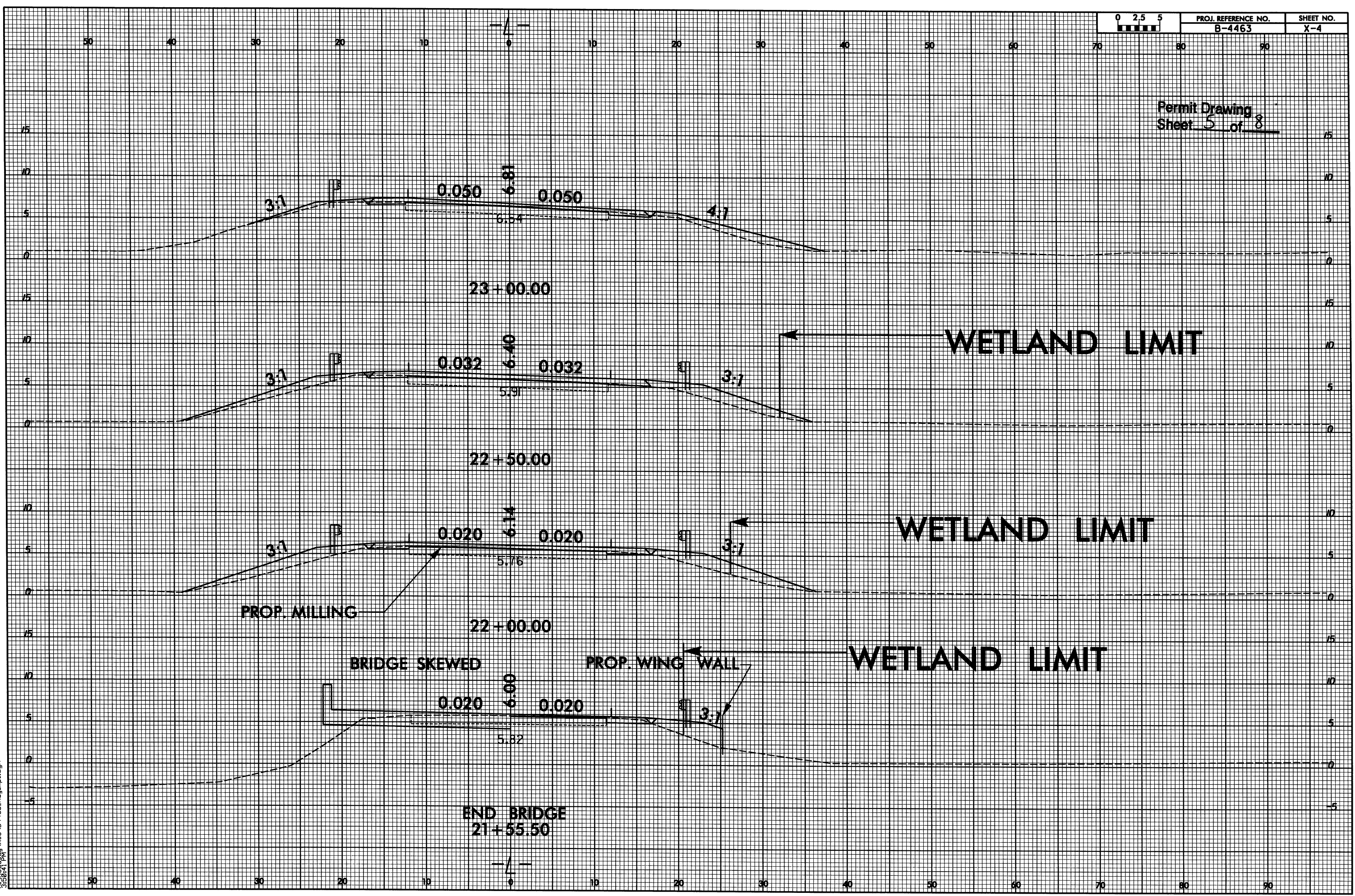
PROJECT REFERENCE NO. B-4463		SHEET NO. 4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
DRMP MA Engineering CONSULTANTS, INC. 1700 EAST INDEPENDENCE BLVD., SUITE 205 CHARLOTTE, NORTH CAROLINA 28217 NC LICENSE NO. C-223			

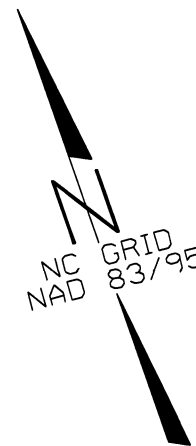
Permit Drawing
Sheet 4 of 8



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Permit Drawing
Sheet 5 of 8





-L- CURVE DATA
CURVE 1
PI -L- Sta 26+42.84
 $\Delta = 2^\circ 24' 16.83''$ (RT)
D = 2' 30" 00.00"
L = 856.19'
T = 433.14'
R = 2291.83'
e = 0.06 (EXISTING)
RUNOFF = 160'
DESIGN SPEED = 60 MPH

Permit Drawing
Sheet 6 of 8

Property Owners

Parcel Number	Names	Addresses			
1	John G Wood Jr.	PO Box 176	Edenton	NC	27932
2	Julia L. Small	320 Yeopim RD	Edenton	NC	27932
3	Robert L. Bunch Jr.	399 Yeopim RD	Edenton	NC	27932

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CHOWAN COUNTY
WBS - 33713.1.1 (B-4463)

SHEET

8/25/2010

Permit Drawing
Sheet 7 of 8

WETLAND PERMIT IMPACT SUMMARY

			WETLAND IMPACTS					SURFACE WATER 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)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 18+49 to 23+60	Single Span Bridge	0.11				0.18		0.01			
TOTALS:			0.11	0.00	0.00	0.00	0.18	0.00	0.01	0.00	0	0

Temporary Impacts: Proposed temporary impacts to wetlands of 0.03 acres of Temporary Fill in Wetlands in the Hand Clearing areas for the installation of erosion control measures, including Temporary Silt Fence and Special Sediment Control Fence.

**NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

CHOWAN COUNTY
WBS - 33713.1.1 (B-4463)

11/29/2010

SHEET

Permit Drawing
Sheet 8 of 8

NARRATIVE FOR B-4463 ENVIRONMENTAL PERMIT

The TIP B-4463 consists of the replacement of bridge no. 12 over Queen Anne Creek on NC 32 in Chowan County. An offsite detour will be utilized in order to be able to build the bridge without buying more permanent utility easement than NCDOT will be required to buy presently.

Wetlands

There is a creek that flows under the proposed replacement bridge no. 12. This creek is called Queen Anne Creek. This creek is ranges from 40 to 65 feet wide in the project area. There are wetlands on both sides of the creek and on both sides of NC 32. No impacts to the wetland will occur from the installation of the gas and water lines on this bridge replacement because a directional bore will used to install these lines. Hand clearing will be used on the south side of the bridge to install the power pole line with telephone and CATV attached. There will be hand clearing in the wetlands in order to place and maintain the multiuse poles. A 15 foot strip of land will be used to maintain the multiuse poles.

Utilities on Project

Utility owners identified on project are: Chowan County Water, the contact person is Mr. Nick Lories at City of Edenton Power Piedmont Natural Gas, Century-Link Telephone, and Mediacom Communications.

There is water, telephone, electric, power, gas and cable TV that are located inside the project boundaries.

There are no existing or proposed sanitary sewer lines on this project.

There is an existing 6 inch water line located on the north side of NC 32 that will interfere with the construction of the replacement of bridge no. 12 over Queen Anne Creek. This line runs the entire length of the project. The existing water line that interferes with the bridge construction will be removed from approximately L-STA. 18+40 to approximately L-STA. 24+65.

The water line on the north side of the project will be relocated closer to the right of way line. The water line will be moved to run parallel and 5 feet off of the right of way in order to allow room for the replacement of the bridge 12 over the creek. The new water line will connect to the existing 6 inch water at approximately L-STA. 18+40 and veers off to the east approximately 70 feet to approximately L-STA. 19+03. Then the line runs parallel with the right of way line to approximately L-STA. 24+09. The water main then turns the southeastwardly and reconnects to the existing 6 inch water line at approximately L-STA. 24+65. The proposed water line will be a 6 inch SDR-9 HDPE pipe.

There is an existing overhead combined telephone, power and cable TV line that runs almost parallel on the south side of the L-line inside the existing right of way line. A conflict exists between the existing multiuse line and the proposed construction of the replacement bridge. The existing poles for the existing multiuse line will be removed to allow room for the bridge construction.

A proposed overhead multiuse telephone, power and cable TV poles and line will be moved to the existing right of way line from L-STA. 17+04 to L-STA. 24+32 on the south side of the L-line.

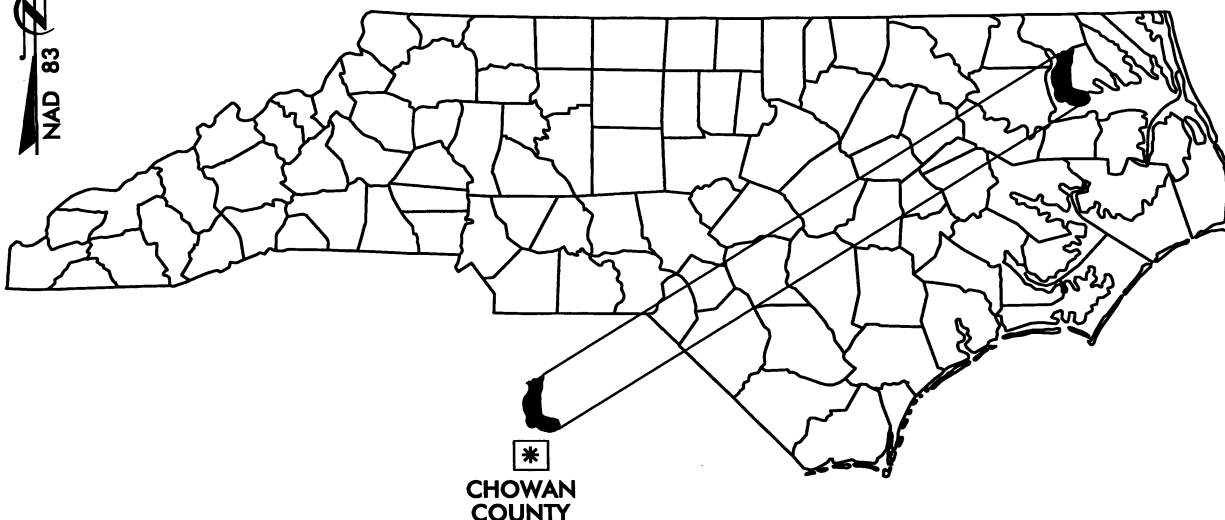
A 6 inch gas line exist on the south side of the L-line that will be too close the bridge and interfere with the project.

A proposed 6 inch SDR-11 medium density polyethylene pipe will connect to the existing 6 inch gas line at approximately L-STA 16+44 and veers off of the L-line to L-STA. 18+43 on the south side of NC 32. It then runs parallel to the L-line at approximately 5 feet off of the PUE line to approximately L-STA. 23+62. From there it runs back and connects to the existing 6 inch gas line at approximately L-STA. 24+29.

There will be hand clearing in the wetlands on the south side of the L-line in order to place the overhead multiuse lines and poles on the right of way boundary.



NORTH CAROLINA



*
CHOWAN
COUNTY



Utility Permit Drawing
Sheet 2 of 9

VICINITY MAPS

NORTH CAROLINA

DIVISION OF HIGHWAYS

CHOWAN COUNTY

PROJECT: 33713 (B-4463)

REPLACEMENT OF BRIDGE #12
OVER QUEEN ANNE CREEK
ON NC 32

SHEET 1 OF 4

1/25/11

5/14/99
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NEU UTILITY RELOCATE PERMIT PLANS 1-20-2011

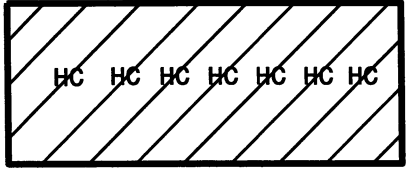
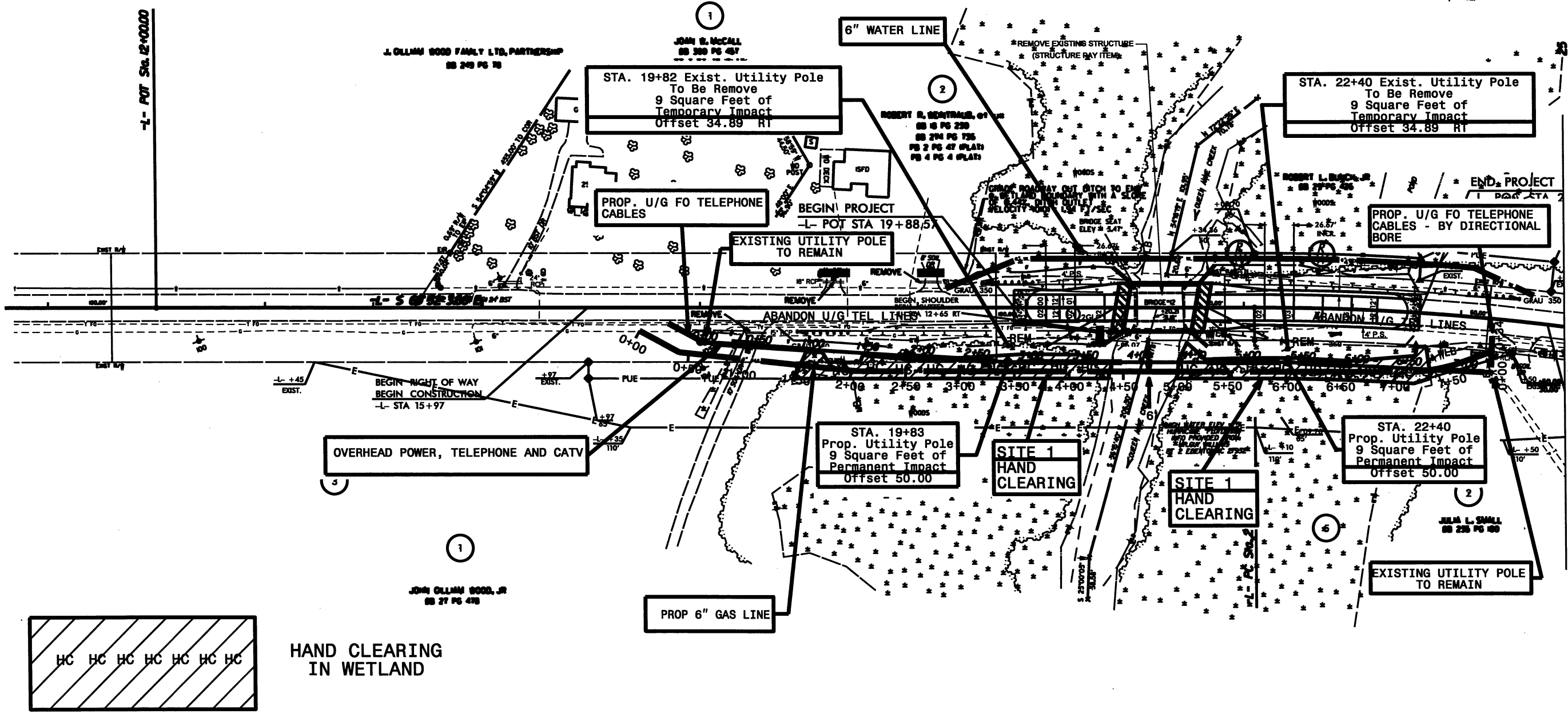
PROJECT REFERENCE NO.	SHEET NO.
B-4463	U-2
DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CBB	
APPROVED BY: CBB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.	UTILITY CONSTRUCTION PLANS ONLY
PHONE: (919) 250-4128	
FAX: (919) 250-4119	

UTILITY CONSTRUCTION



FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-11
FOR -L- PROFILE, SEE SHEET NO. 5

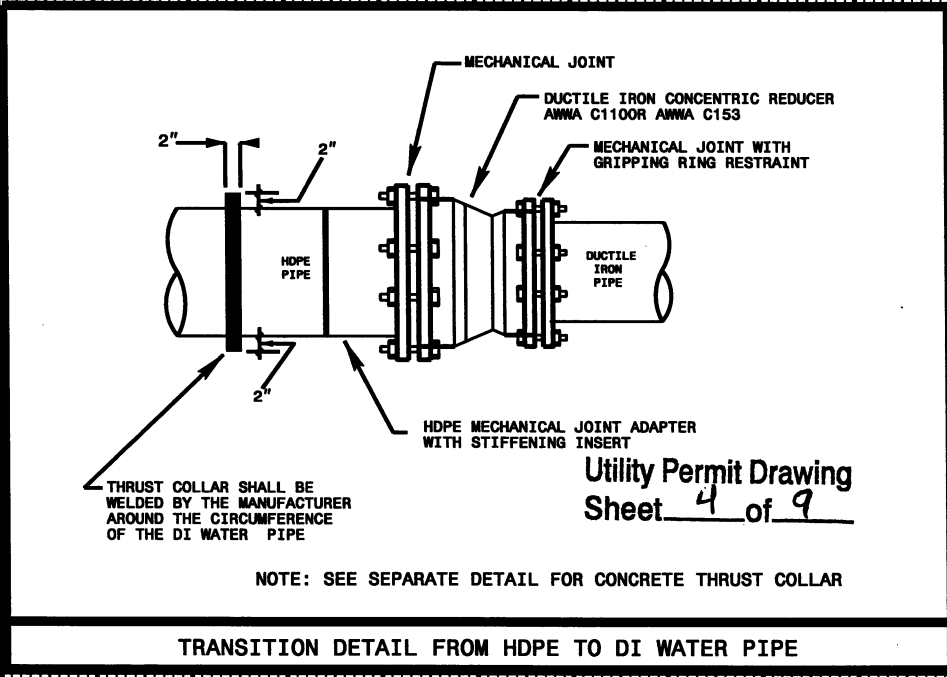
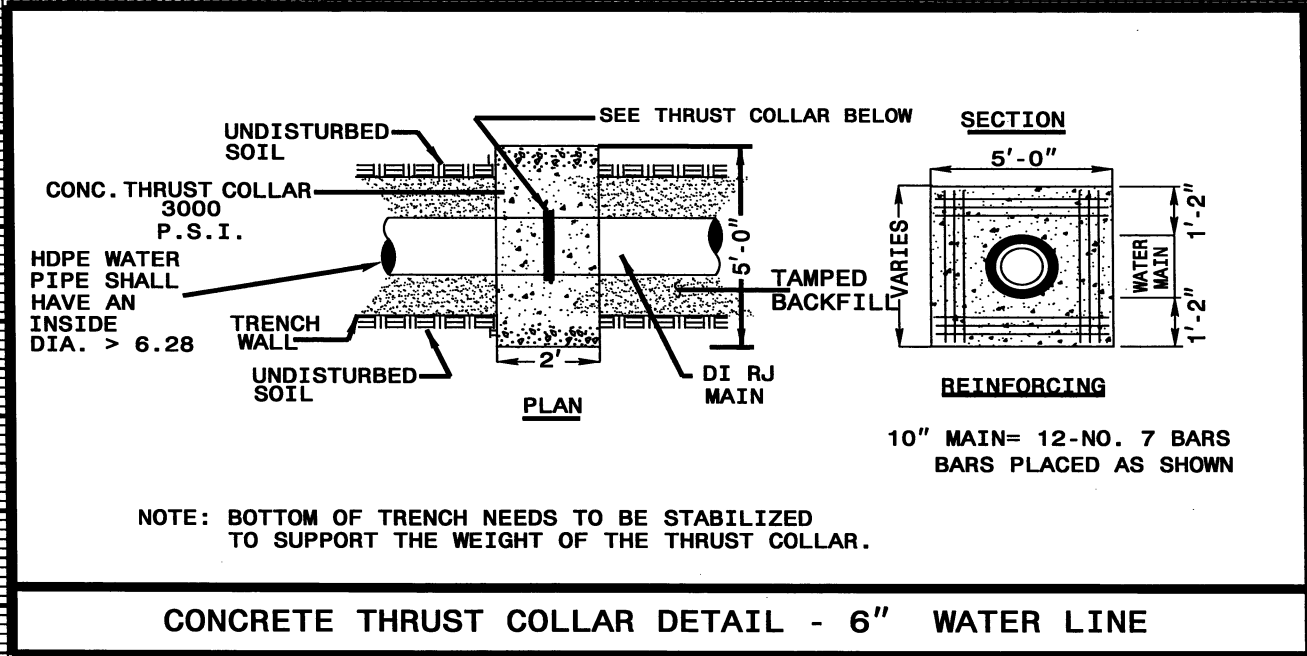
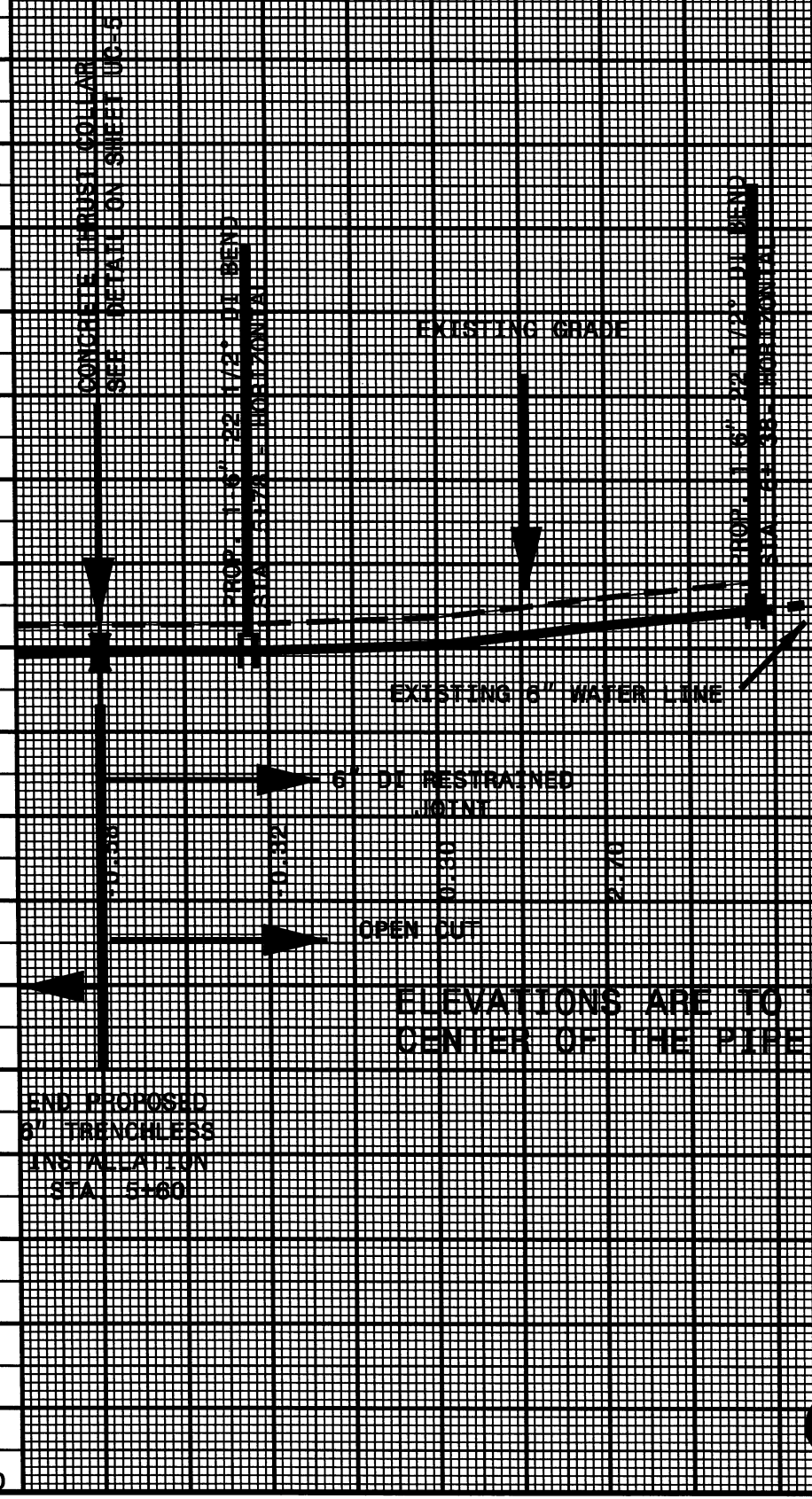
Utility Permit Drawing
Sheet 3 of 9



MATCHLINE -L- DETOUR STA. 25+00.00
SEE SHEETS 2B AND 2C FOR DETOUR

5/14/99
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PROJECT REFERENCE NO. B-4463		SHEET NO. U-3
DESIGNED BY: KSM		
DRAWN BY: KSM		
CHECKED BY: CDB		
APPROVED BY: CDB		
REVISED: 3/29/10	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119		UTILITY CONSTRUCTION PLANS ONLY



6" WATER LINE

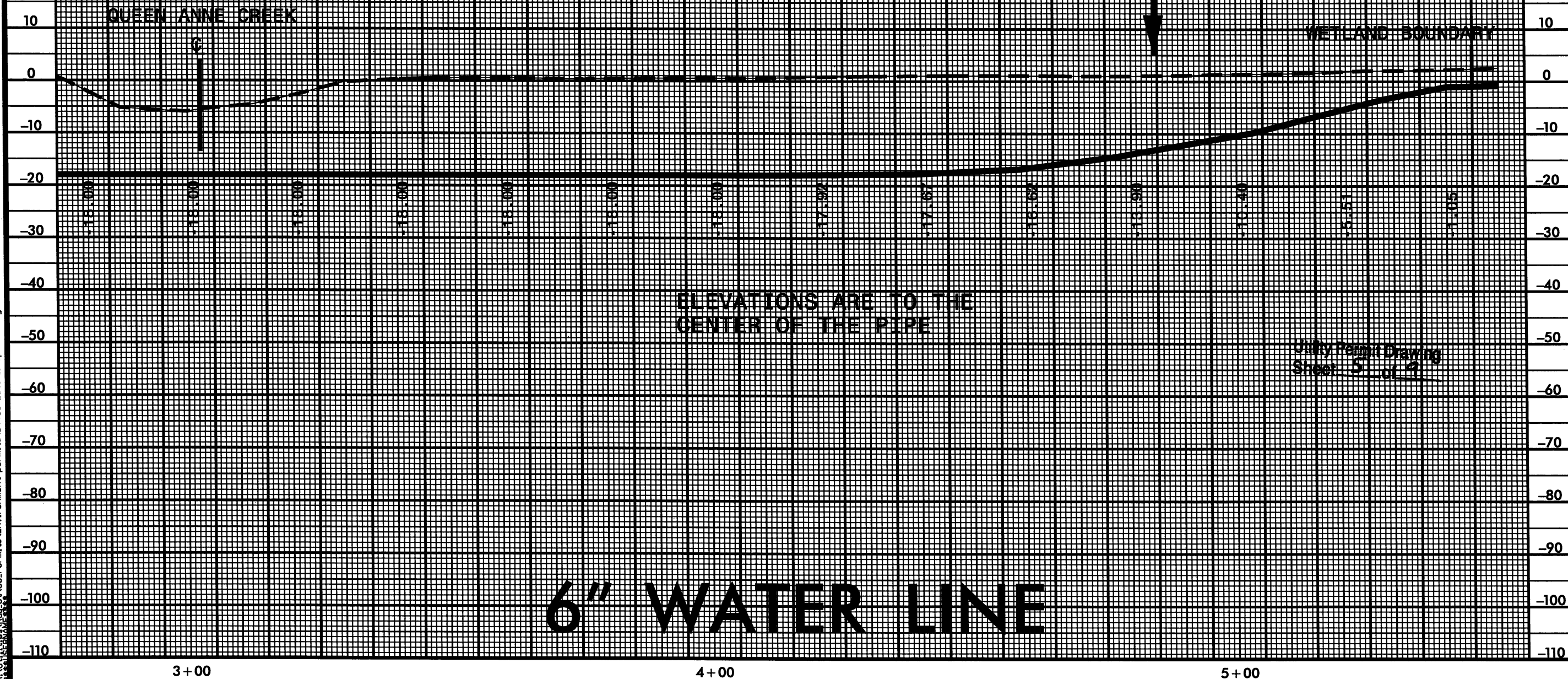
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25 JAN 2011 09:08
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PROJECT REFERENCE NO. B-4463		SHEET NO. U-4	
DESIGNED BY: KSM			
DRAWN BY: KSM			
CHECKED BY: CDB			
APPROVED BY: CDB			
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: 1-919-1230-4128 FAX: 1-919-1230-4119		
UTILITY CONSTRUCTION PLANS ONLY			

DIRECTIONAL DRILL NOTES:

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107 AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING THE TRENCHLESS INSTALLATION. NO DAMAGE IS ALLOWED TO THE WETLAND OR STREAM BY THE TRENCHLESS INSTALLATION. THE CONTRACTOR'S ENGINEER SHALL DESIGN THE INSTALLATION METHIOD AND ON-SITE OVERSIGHT.

- THE INSTALLATION AND VERTICAL BORE PATHS SHOWN ARE BASED ON INFORMATION AVAILABLE AT THIS TIME AND ARE FOR PERMITTING REASONS ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN/ENGINEER THE PROPOSED ALIGNMENTS.



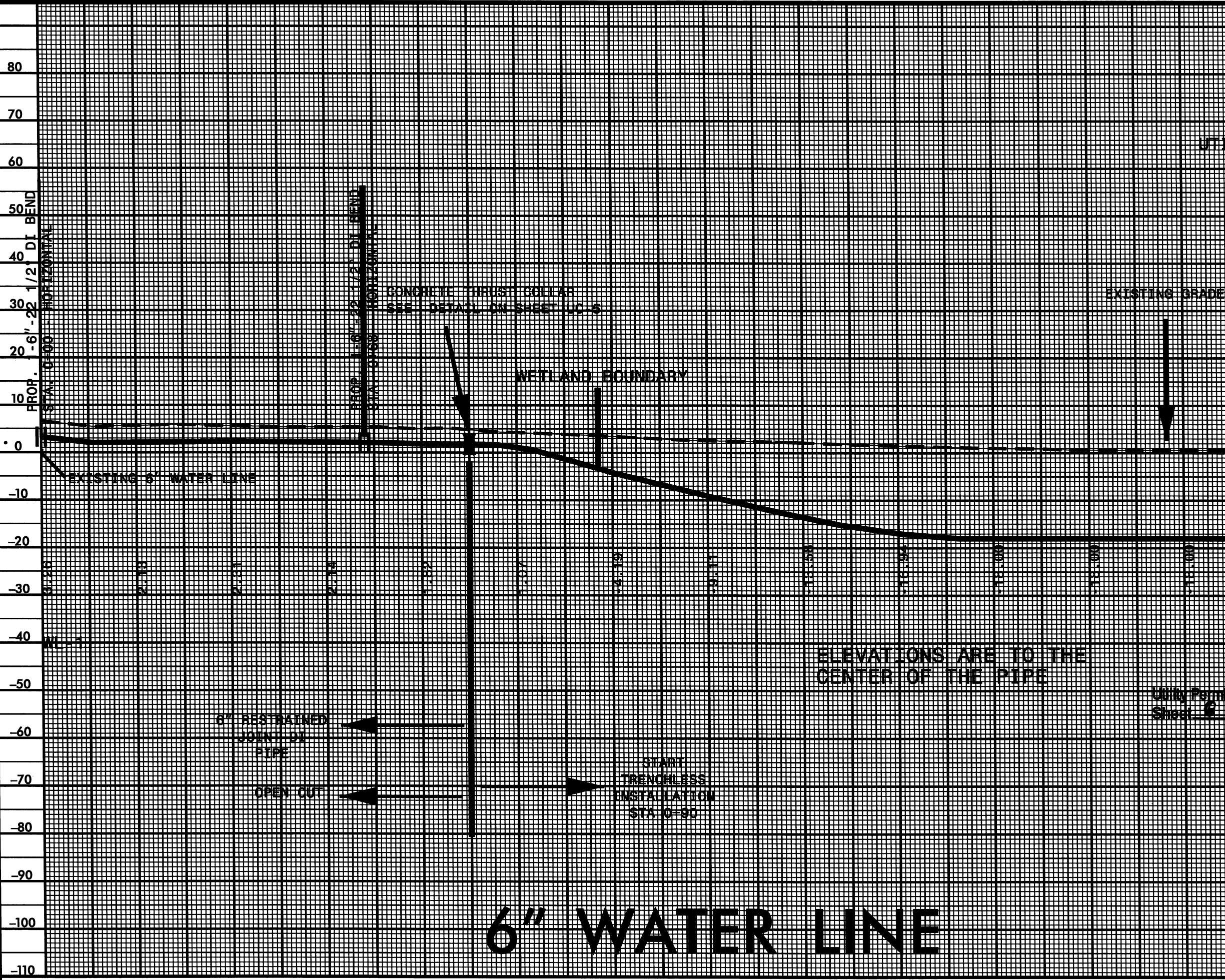
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5/14/99

PROJECT REFERENCE NO.		SHEET NO.	
B-4463		U-5	
DESIGNED BY:	KSM		UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	KSM		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC PHONE: (919) 250-4126 FAX: (919) 250-4119			

UTILITY CONSTRUCTION

60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110

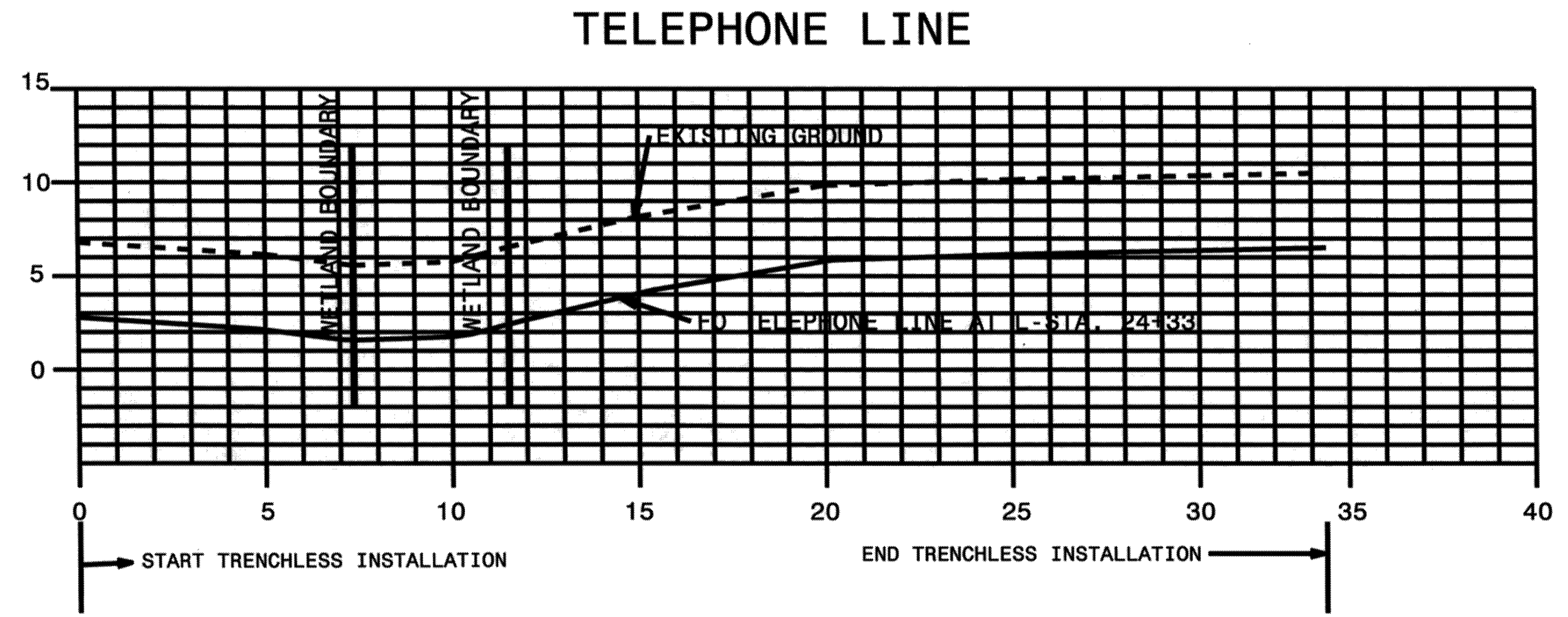
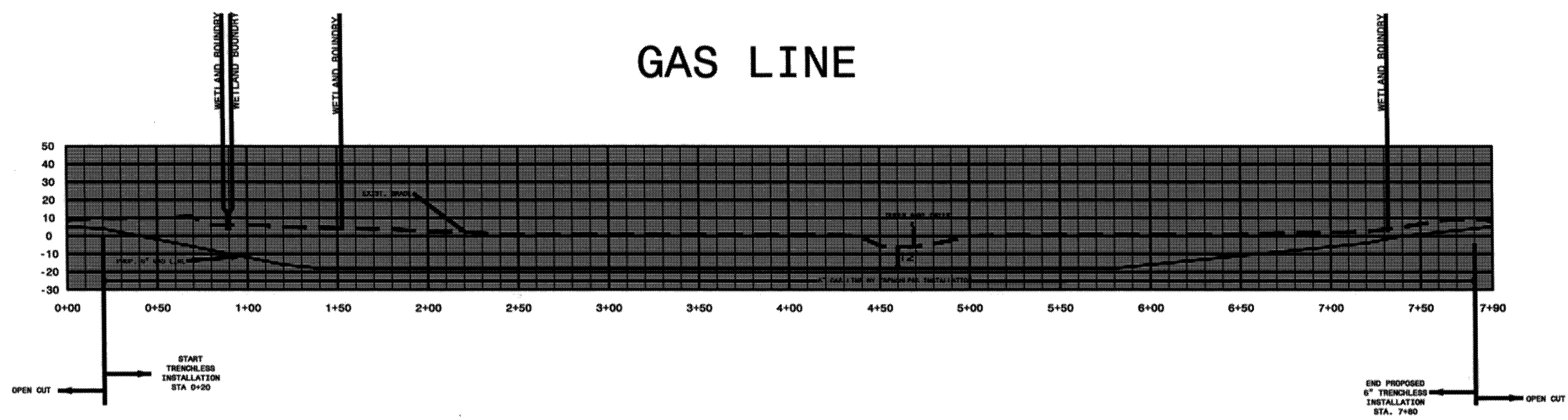


6" WATER LINE

Utility Permit Drawing
Sheet 6 of 9

5/14/99

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permits\gas.tel.profile.neu.permit.plans.dgn



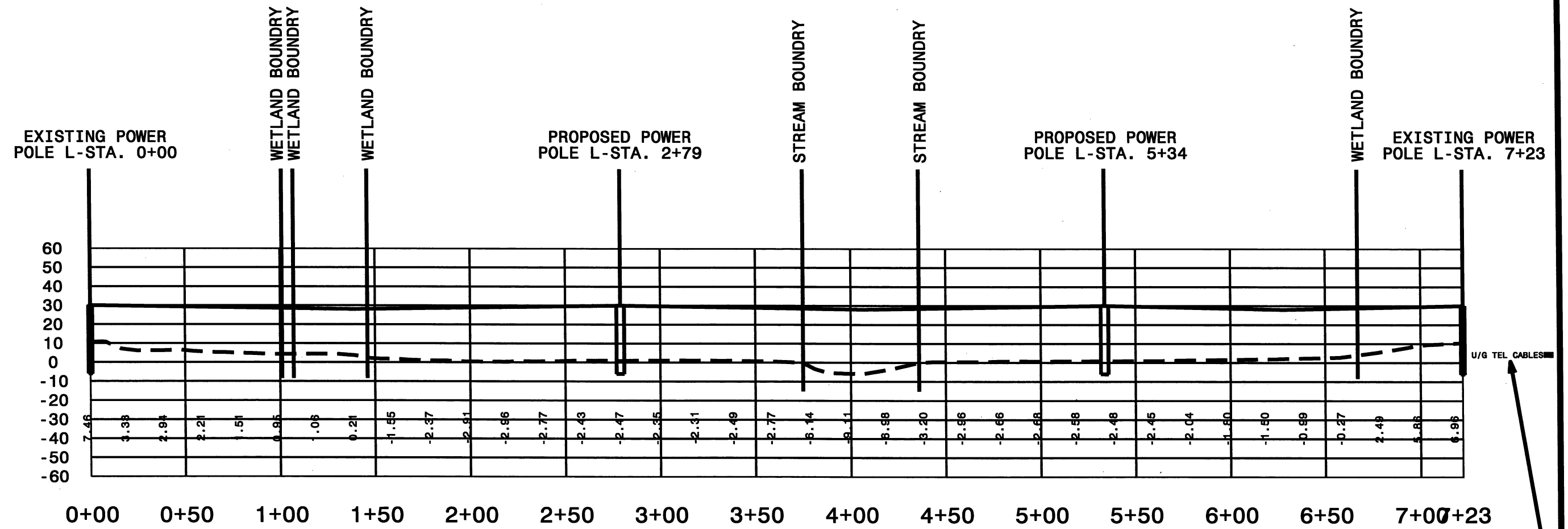
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OVERHEAD POWER LINES

PROJECT REFERENCE NO.	SHEET NO.
B-4463	U-7
DESIGNED BY: KSM	
DRAWN BY: KSM	
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



PROPOSED U/G TELEPHONE
CABLES, SEE SHEET U-6

WETLAND PERMIT IMPACT SUMMARY

			WETLAND IMPACTS					SURFACE WATER 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)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L-17+84 TO 20+78	Multi-use Line	*					0.13				
2	-L-21+37 TO 23+76	Multi-use Line						0.11				
TOTALS:			0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00

Note 1: 22 sq. ft. temporary impact in the wetlands from pole removal or temporary poles.
 Note 2 : 2 sq. ft. permanent impact in the wetlands from permanent pole installation.

Utility Permit Drawing
 Sheet 7 of 9

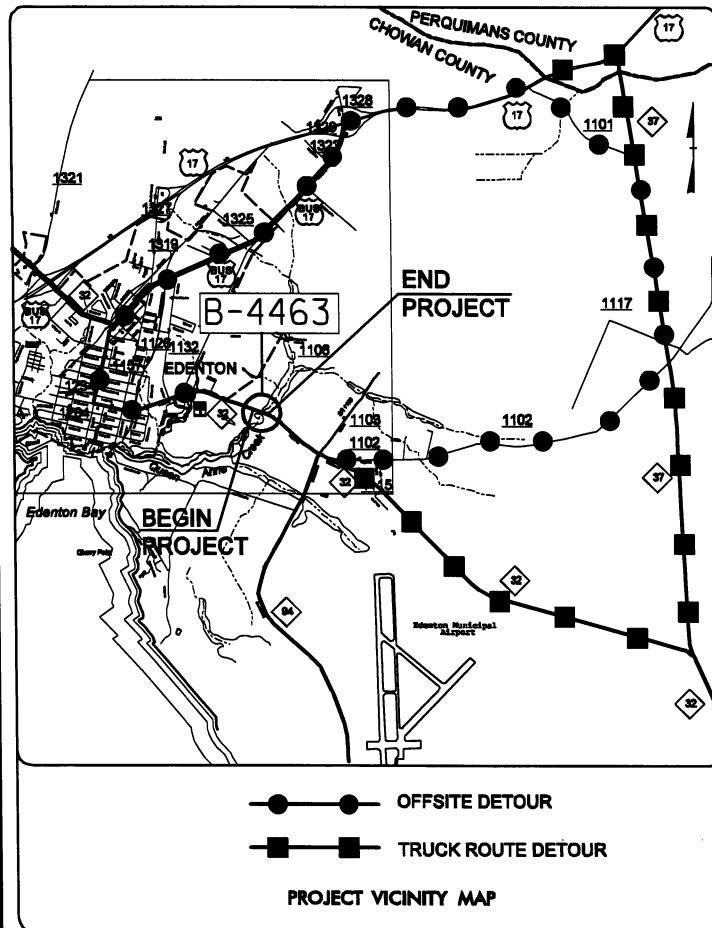
NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CHOWAN COUNTY
 TIP PROJECT (B-4463)
 BRIDGE NO. 12
 OVER QUEEN ANNE CREEK ON NC 32
 SHEET 4 OF 5 3/8/2010

09/08/99

TIP PROJECT: B-4463

CONTRACT:

See Sheet 1-A For Index of Sheets



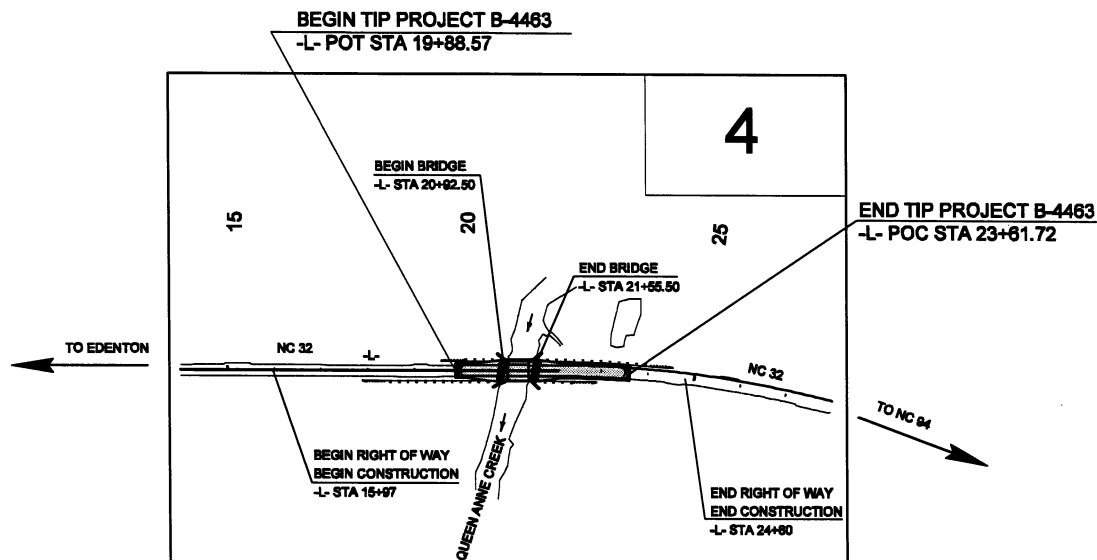
90% PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CHOWAN COUNTY

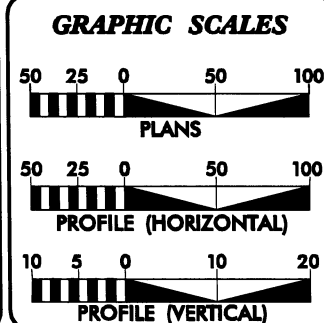
LOCATION: BRIDGE NO. 12 OVER QUEEN ANNE CREEK
ON NC 32

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



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NCDOT Contact: B. Doug Taylor, PE
Roadway Design-Engineering Coordination



DESIGN DATA

ADT 2011 = 6280
ADT 2030 = 9200
DHV = 10 %
D = 60 %
T = 5% (TTST 2%, DUAL 3%)
V = 60 MPH

FUNC CLASS = MAJOR COLLECTOR

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4463 = 0.059 MILE

LENGTH STRUCTURE TIP PROJECT B-4463 = 0.012 MILE

TOTAL LENGTH TIP PROJECT B-4463 = 0.071 MILE

Prepared In the Office of
DYER, RIDDLE, MILLS & PRECOURT, INC. (DRMP)
7506 EAST INDEPENDENCE BLVD., SUITE 105
CHARLOTTE, NORTH CAROLINA 28227
(704) 332-2289 NC LICENSE NO. C-2213

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 15, 2010

LETTING DATE:
OCTOBER 18, 2011

Ronald C. Smith, PE
PROJECT ENGINEER

PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

Signature: _____

Signature: _____

Professional Engineer Seal: 21656

Professional Engineer Seal: 13680

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Signature: _____

STATE HIGHWAY DESIGN ENGINEER

R:\Roadway\Proj\B4463_Rdy_tsh.dgn
8/24/2010

3/15/06

Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-4463	I-B

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	○
Property Corner	✕
Property Monument	□
Parcel/Sequence Number	⑫
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	-o-o-o-
Proposed Chain Link Fence	-□-□-□-
Proposed Barbed Wire Fence	-◇-◇-◇-
Existing Wetland Boundary	-W.S.-
Proposed Wetland Boundary	-W.S.-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or UG Tank Cap	○
Sign	○
Well	○
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

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

RAILROADS:

Standard Gauge	_____
RR Signal Milepost	○
Switch	□
RR Abandoned	_____
RR Dismantled	_____

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	_____
Proposed Right of Way Line	_____
Proposed Right of Way Line with Iron Pin and Cap Marker	_____
Proposed Right of Way Line with Concrete or Granite Marker	_____
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Utility Easement	-PUE-
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	_____

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	⊕
Storm Sewer	-S-

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
UG Power Cable Hand Hole	□
H-Frame Pole	●
Recorded UG Power Line	-P-
Designated UG Power Line (S.U.E.*)	-P-

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	□
Telephone Pedestal	□
Telephone Cell Tower	⊗
UG Telephone Cable Hand Hole	□
Recorded UG Telephone Cable	-T-
Designated UG Telephone Cable (S.U.E.*)	-T-
Recorded UG Telephone Conduit	-TC-
Designated UG Telephone Conduit (S.U.E.*)	-TC-
Recorded UG Fiber Optics Cable	-T FO-
Designated UG Fiber Optics Cable (S.U.E.*)	-T FO-

WATER:

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

TV:

TV Satellite Dish	⊗
TV Pedestal	□
TV Tower	⊗
UG TV Cable Hand Hole	□
Recorded UG TV Cable	-TV-
Designated UG TV Cable (S.U.E.*)	-TV-
Recorded UG Fiber Optic Cable	-TV FO-
Designated UG Fiber Optic Cable (S.U.E.*)	-TV FO-

GAS:

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

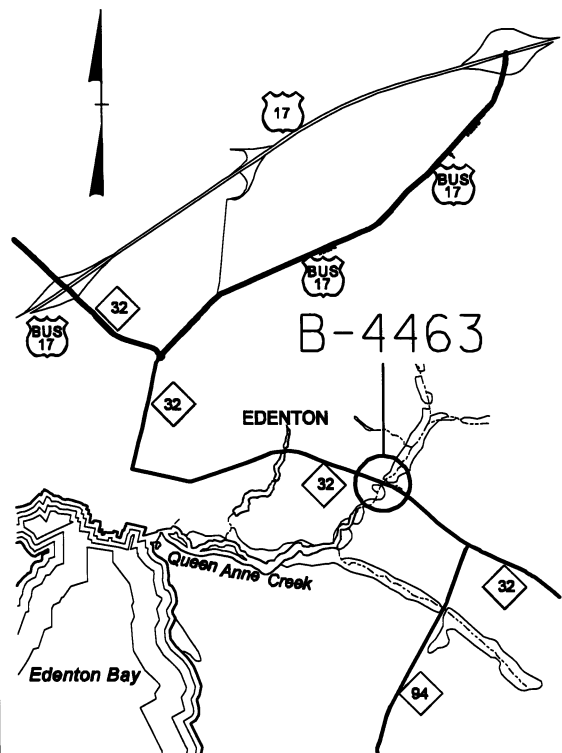
SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
UG 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	⊕
Utility Unknown UG Line	-TUL-
UG Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
UG Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET B-4463



PROJECT VICINITY MAP

CONTROL DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
B44631	GPS MON B4463-1		849855.8240	2712004.6850	12.20	OUTSIDE PROJECT LIMITS	
B44632	GPS MON B4463-2		849342.2600	2713380.6510	7.99	16+79.50	16.51 RT
BL3		BL3	849208.1810	2713835.1570	4.81	21+52.20	16.79 LT
BL4		BL4	848799.5010	2714561.0850	11.56	29+83.79	18.25 LT



BEGIN TIP PROJECT B-4463

-L- STA 19+88.57

LOCALIZED PROJECT COORDINATES

N= 849,249.6585
E= 2,713,675.9843

NCDOT BASELINE STATION "BL-3"

LOCALIZED PROJECT COORDINATES

N= 849,208.1810
E= 2,713,835.1570

END TIP PROJECT B-4463

-L- STA 23+61.72

LOCALIZED PROJECT COORDINATES

N= 849,114.5051
E= 2,714,023.7151

NCDOT GPS STATION "B-4463-1"
LOCALIZED PROJECT COORDINATES

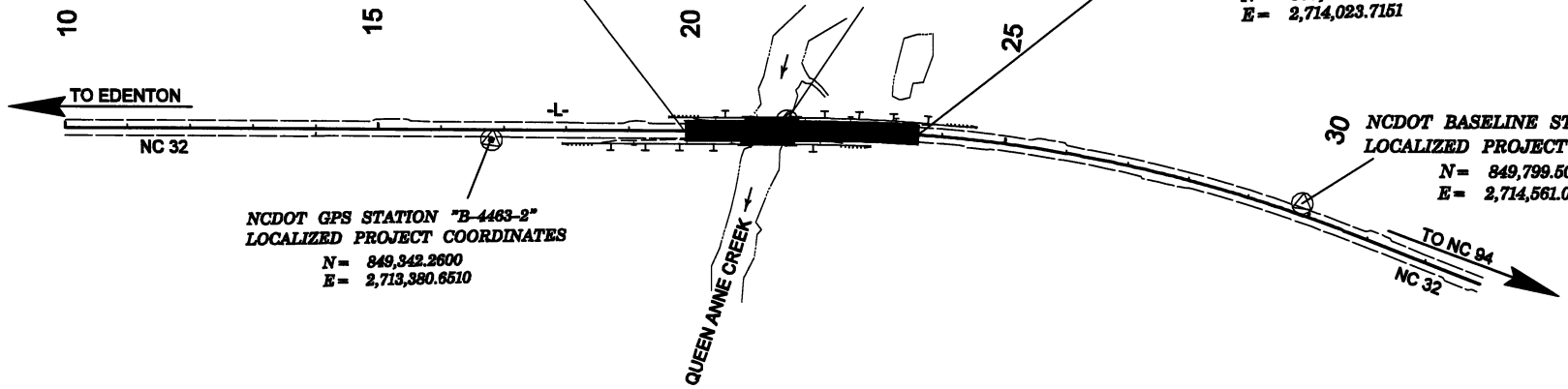
N= 849,855.8240
E= 2,712,004.6850

NCDOT GPS STATION "B-4463-2"
LOCALIZED PROJECT COORDINATES

N= 849,342.2600
E= 2,713,380.6510

NCDOT BASELINE STATION "BL-4"
LOCALIZED PROJECT COORDINATES

N= 849,799.5010
E= 2,714,561.0850



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4463-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 849855.824(++) EASTING: 2712004.685(++) ELEVATION: 12.20(++) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99997746 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4463-1" TO -L- STATION 15+97.00 IS S70°03'53"E 1,777.83' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

BENCHMARK DATA

BM5 ELEVATION = 8.11
N 849171 E 2713349
L STATION 17+09 188 RIGHT

BM6 ELEVATION = 13.53
N 848737 E 2714693
L STATION 31+24 58 LEFT

NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING [HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project)

FILE: b4463_la_control_090218.txt

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

INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.

PROJECT CONTROL ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEM.

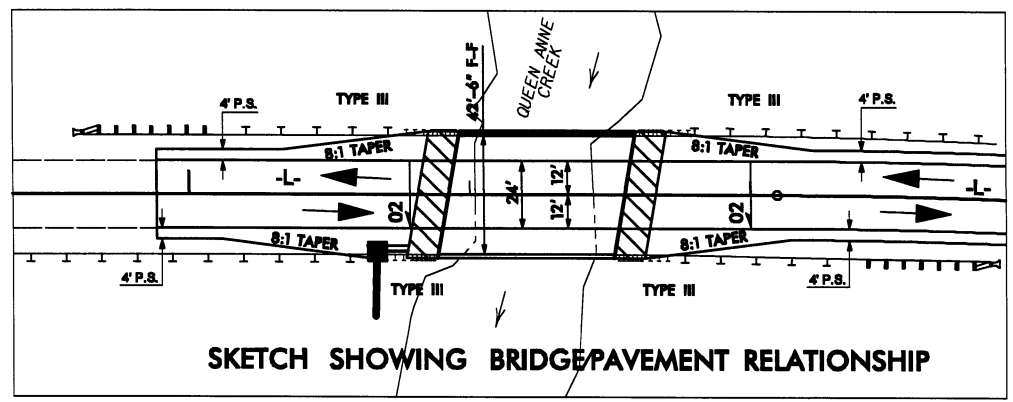
NETWORK FOR GPS "B4463-1" ESTABLISHED FROM NGS ONLINE POSITIONING USER SERVICE (OPUS)

NOTE: DRAWING NOT TO SCALE

8/17/99

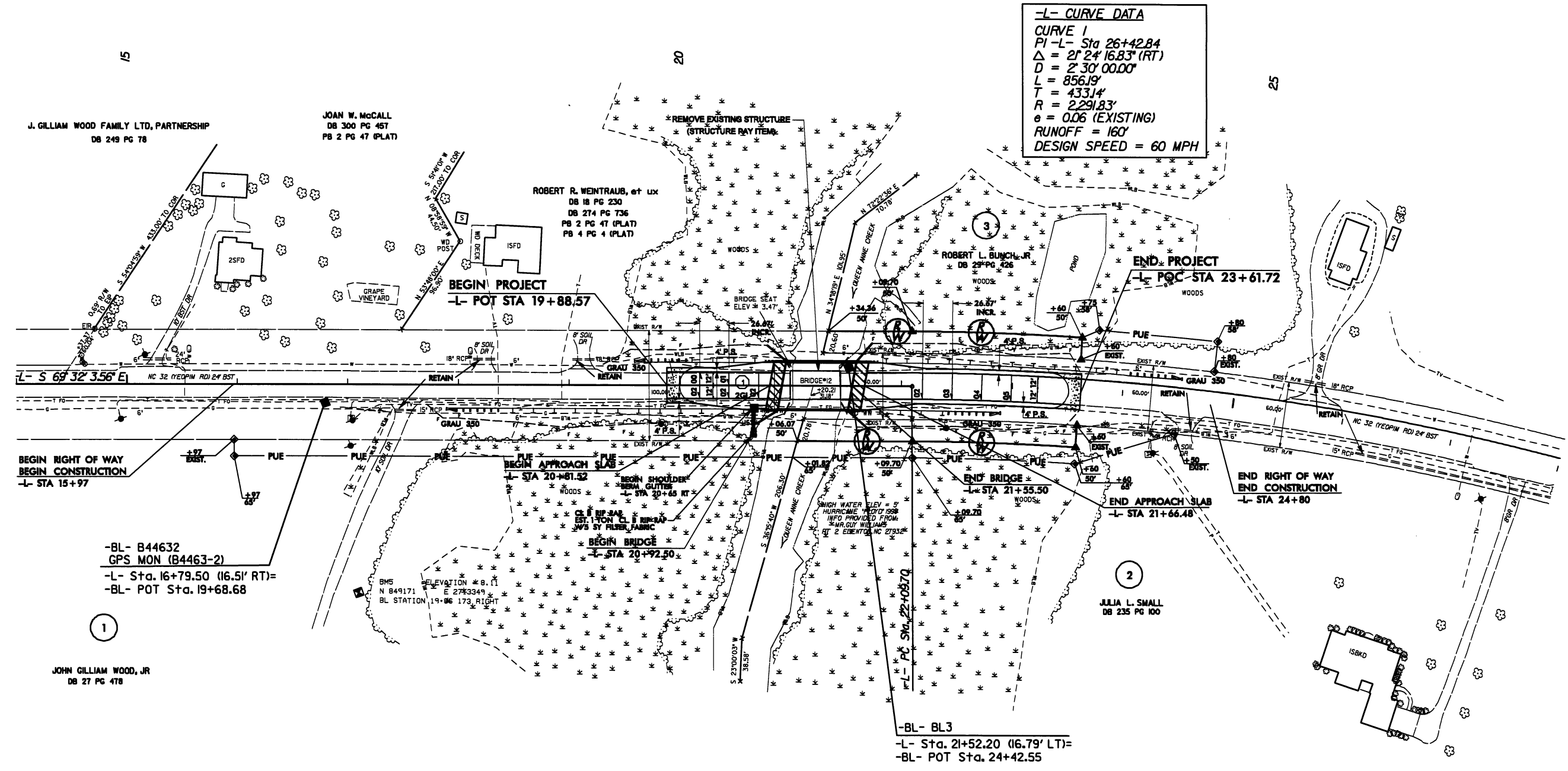
B:\Roadway\p-o\B4463.Rdy.psh.dgn
8/25/99 12:02 PM

REVISIONS



PROJECT REFERENCE NO. B-4463		SHEET NO. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
DRMP MA Engineering CONSULTANTS, INC. 7506 EAST HIDEAWAY DRIVE, SUITE 105 CHARLOTTE, NORTH CAROLINA 28227 TEL: 336-228-8888 FAX: 336-228-8889 NC LICENSE NO. C-2223			

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-11
FOR -L- PROFILE, SEE SHEET NO. 5



-BL- B44632
GPS MON (B4463-2)
-L- Sta. 16+79.50 (16.5' RT)=
-BL- POT Sta. 19+68.68

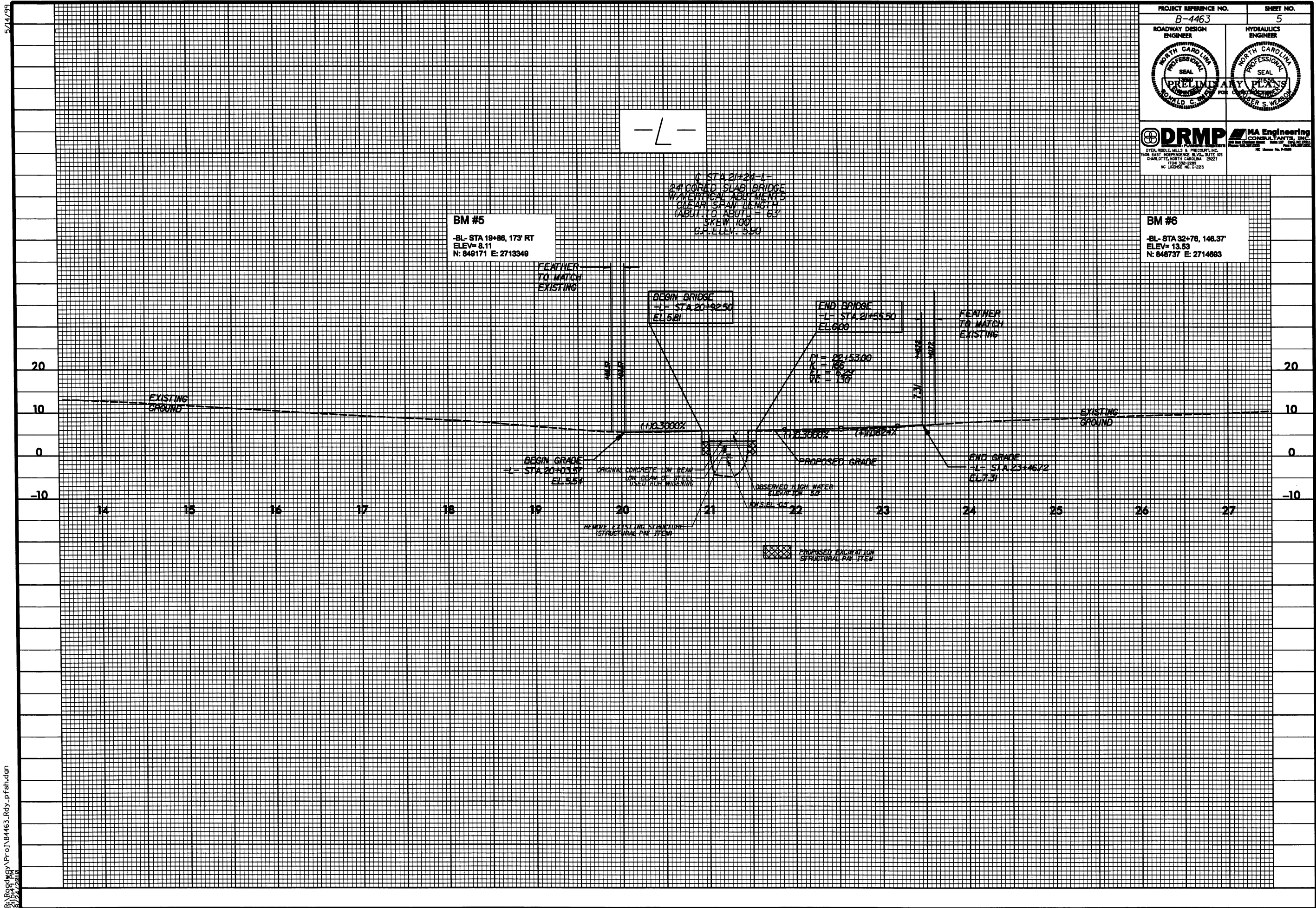
JOHN GILLIAM WOOD, JR.
DB 27 PG 478

-BL- BL3
-L- Sta. 21+52.20 (16.79' LT)=
-BL- POT Sta. 24+42.55

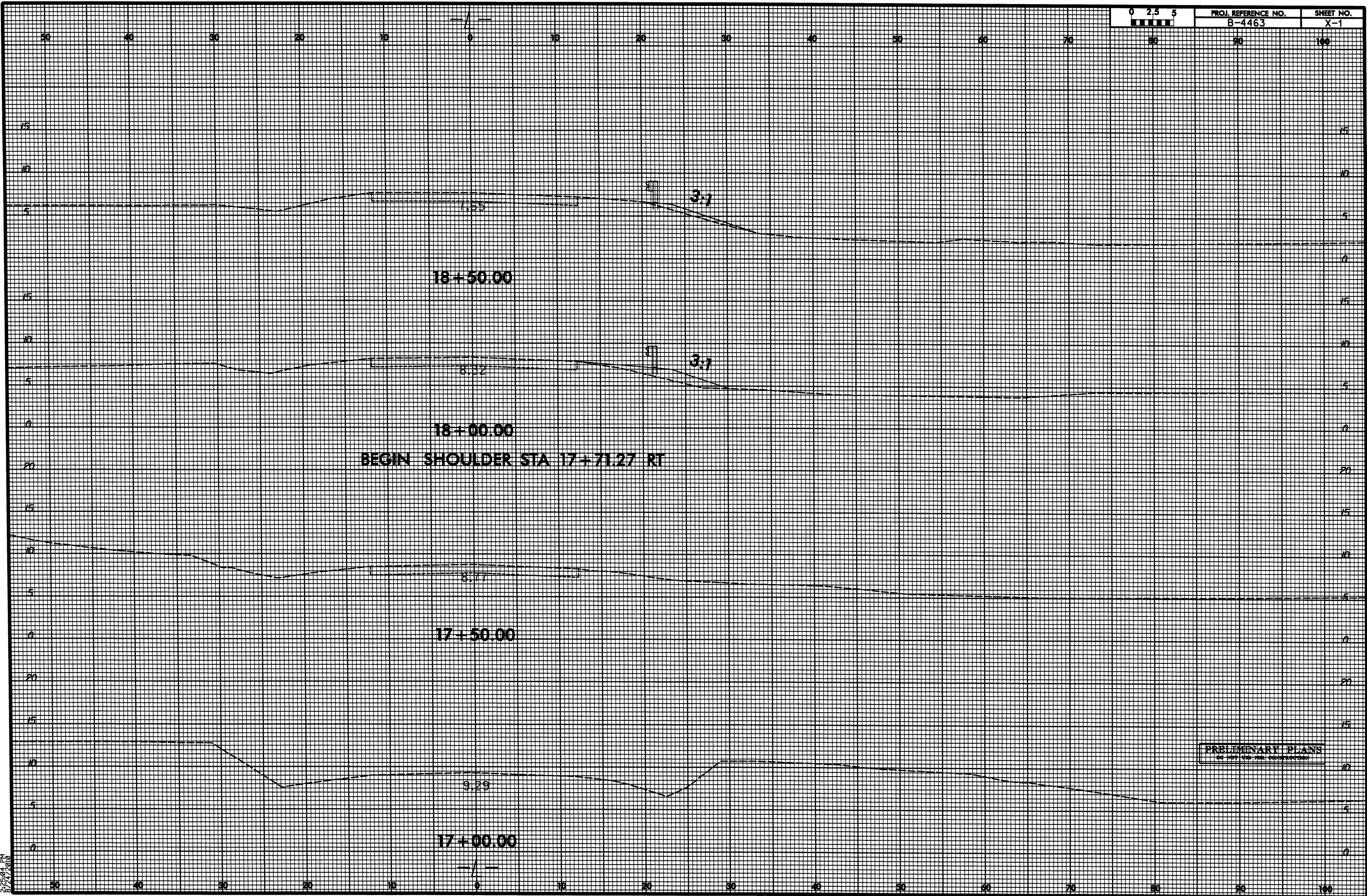
5/14/99

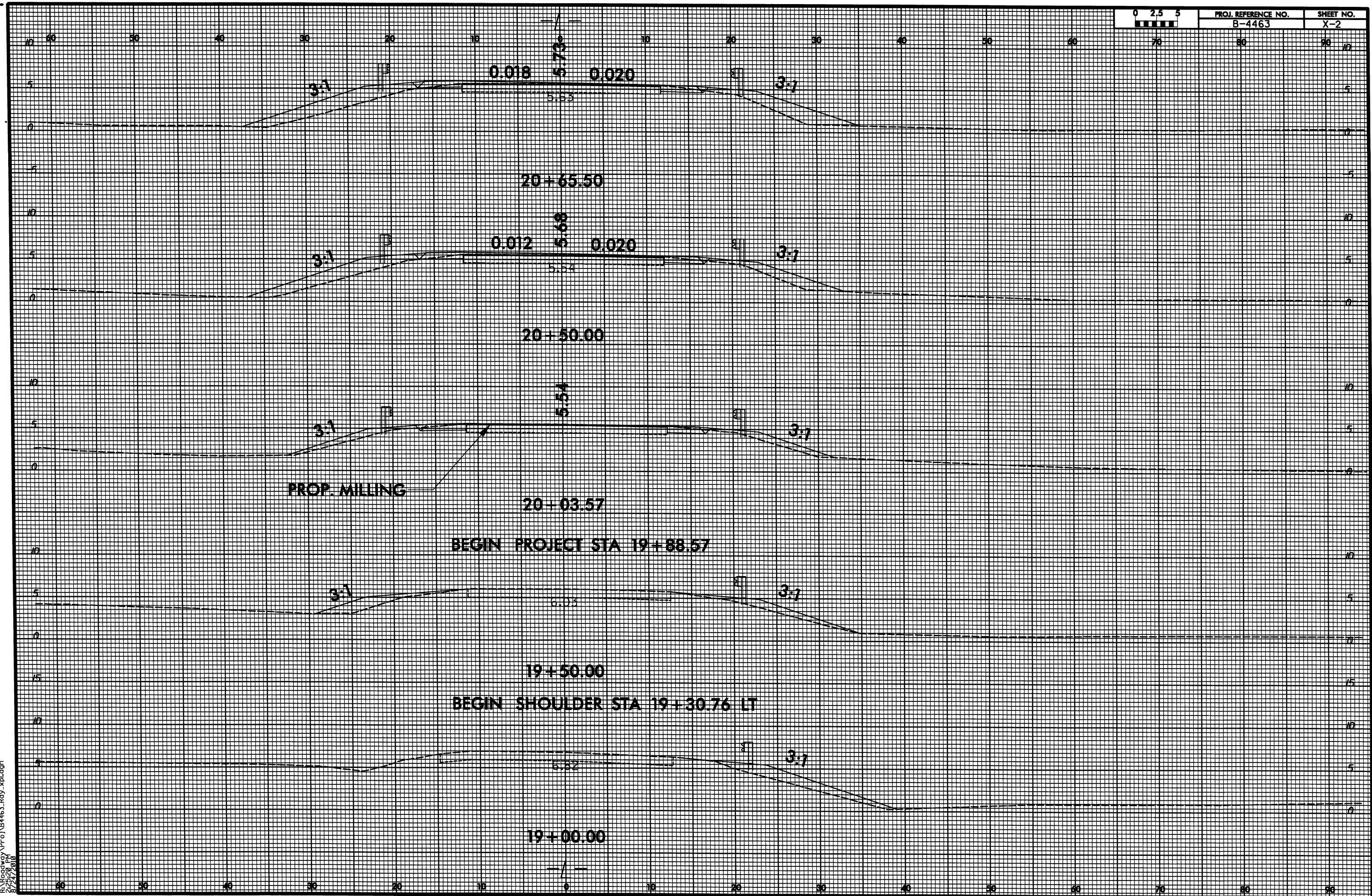
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2/15/99

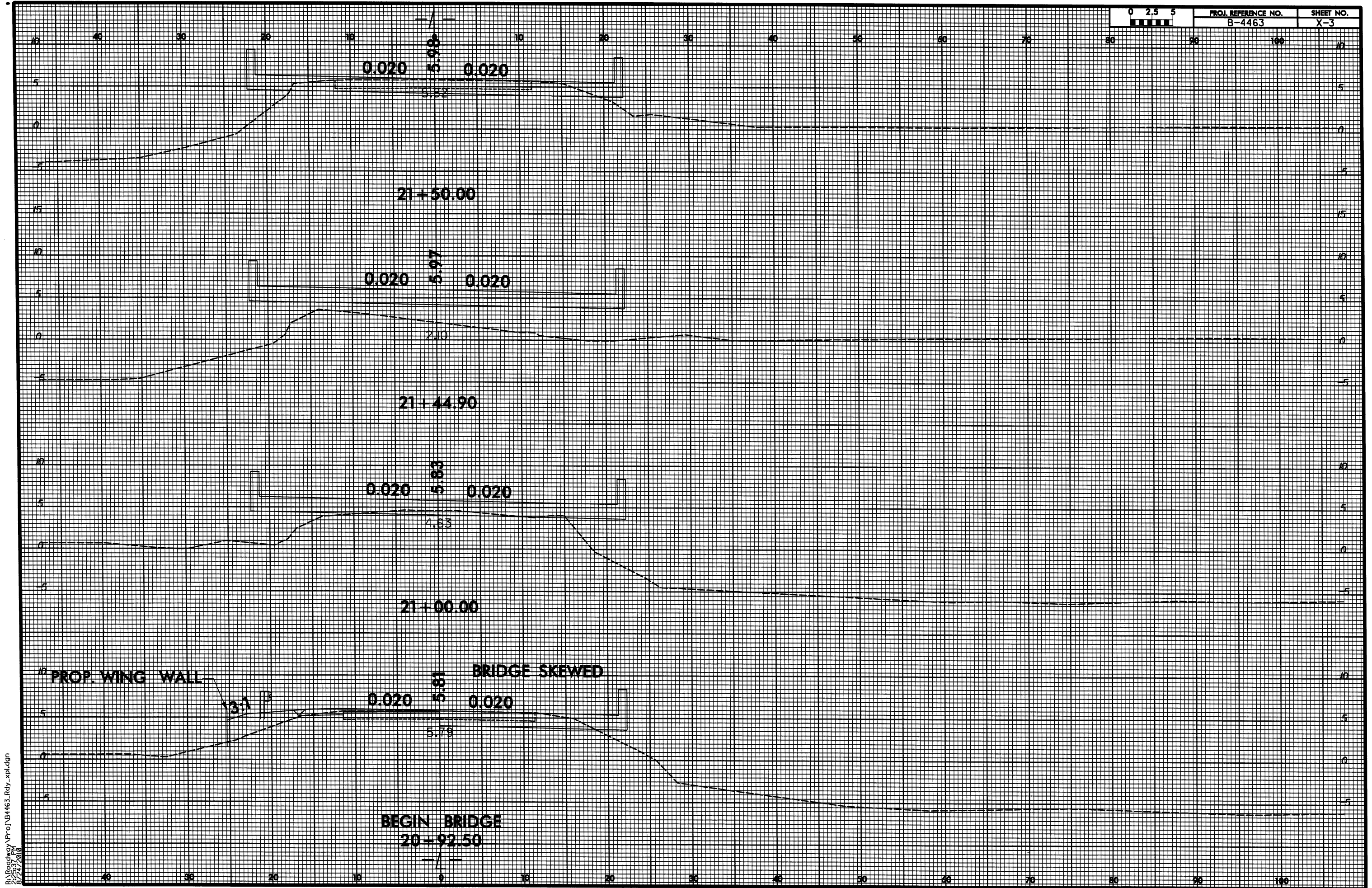


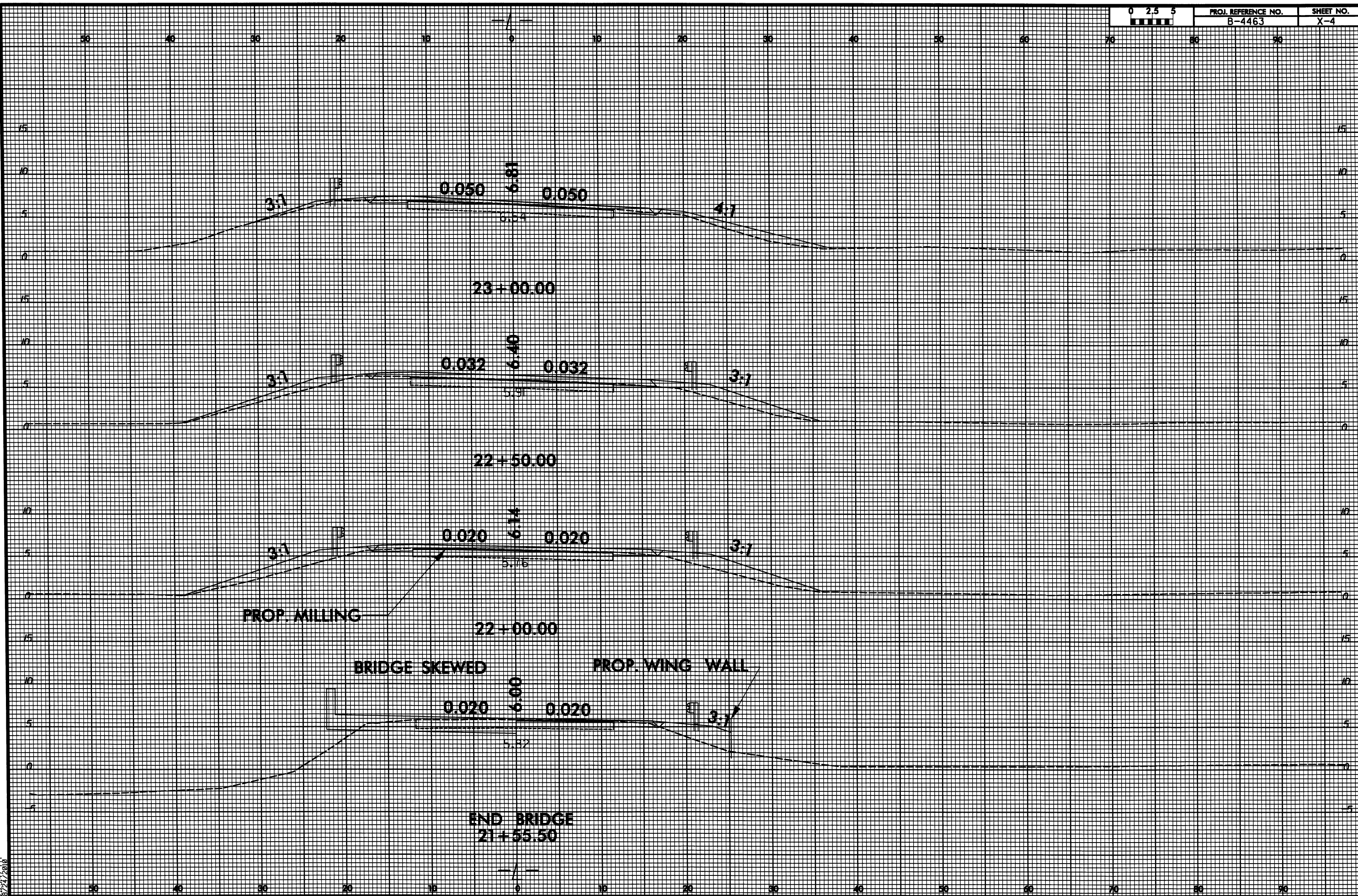
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8/29/2018



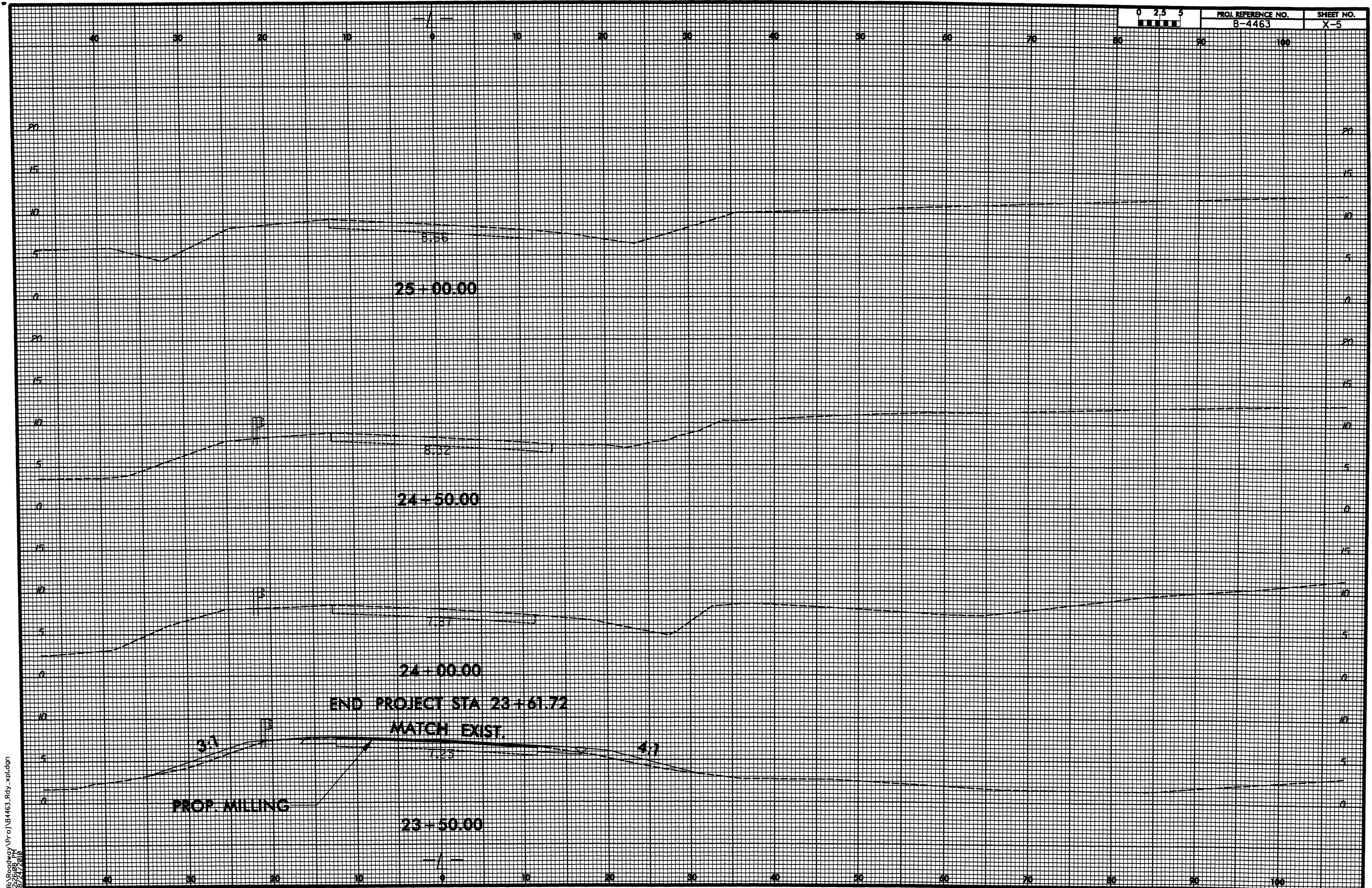


D:\Borodsky\Pro\B4463.Rdy.xpl.dgn
2/25/2008 8:57:20



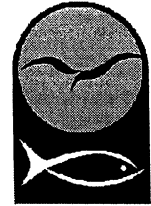


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2/25/08 PM
8/24/2008



APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information

Business Name North Carolina Department Of Transportation		Project Name (if applicable) B-4463	
Applicant 1: First Name Gregory	MI	Last Name Thorpe	
Applicant 2: First Name	MI	Last Name	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>			
Mailing Address 1598 Mail Service Center		PO Box	City Raleigh
		State NC	
ZIP 27699 1598	Country USA	Phone No. 919 - 431 - 6746 ext.	FAX No. 919 - 431 - 2002
Street Address (if different from above) 4701 Atlantic Avenue Suite 116		City Raleigh	State NC
		ZIP 27604-	
Email cdmanley@ncdot.gov			

2. Agent/Contractor Information

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

<Form continues on back>

3. Project Location				
County (can be multiple) Chowan		Street Address Bridge No. 12 over Queen Anne Creek		State Rd. # NC 32
Subdivision Name N/A		City Edenton	State NC	Zip 27932 -
Phone No. - - ext.		Lot No.(s) (if many, attach additional page with list)		
a. In which NC river basin is the project located? Chowan		b. Name of body of water nearest to proposed project Queen Anne Creek		
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. Albemarle 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.		

4. Site Description	
a. Total length of shoreline on the tract (ft.) 200 (both sides combined)	b. Size of entire tract (sq.ft.) 40,050
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' ☐ NHW or ☒ NWL
e. Vegetation on tract Cypress, sweetgum, green ash, swamp gum, red maple, poison ivy, Japanese honeysuckle, and trumpet creeper.	
f. Man-made features and uses now on tract Bridge and Roadway Approaches	
g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Agricultural & Sparse Residential	
h. How does local government zone the tract? Right of Way	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) ☐ Yes ☐ No ☒ NA
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? See CE (SHPO)	
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. None	

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. Public Road and Bridge	
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. This project involves the replacement of Bridge No. 12 (NC 32) near Edenton. The bridge will be replaced at the existing location, and traffic will be routed on an off site detour. Top down construction will be the construction method. The existing bridge will be removed without dropping any components into the water. Typical construction, earth moving, and road surface equipment will be used.	
d. List all development activities you propose. Roadway and bridge construction	
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?	32,300 ☒ 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. See Permit Drawings	
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?	☒ Yes ☐ No ☐ NA
If yes, attach a mitigation proposal.	

<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 | See attached list | Phone No. |
| Address | | |
| Name | | Phone No. |
| Address | | |
| Name | | Phone No. |
| Address | | |
- g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.
- | | |
|----------------------------------|-----------|
| Stormwater Permit, July 16, 2010 | SW7100502 |
| | |
| | |
- 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 1.24.11

Print Name _____

Signature E. L. Fush

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

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:
 Queen Anne Creek
- c. Type of bridge (construction material):
 24" Cored Slab
- d. Water depth at the proposed crossing at NLW or NWL:
 4.5'
- e. (i) Will proposed bridge replace an existing bridge? ☒ Yes ☐ No
 If yes,
 (ii) Length of existing bridge: 45'
 (iii) Width of existing bridge: 26'
 (iv) Navigation clearance underneath existing bridge: 2'
 (v) Will all, or a part of, the existing bridge be removed?
 (Explain) Yes, all of the existing bridge will be removed.
- 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: 55 (ft)
- h. Width of proposed bridge: 45'
- 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: The navigable opening will be wider and taller.
- k. Navigation clearance underneath proposed bridge: 4'
- l. Have you contacted the U.S. Coast Guard concerning their approval? ☒ Yes ☐ No
 If yes, explain: Yes, on May 25, 2005. Their response was no permit required.
- m. Will the proposed bridge cross wetlands containing no navigable waters? ☒ Yes ☐ No
 If yes, explain: Stream too small for navigation
- n. Height of proposed bridge above wetlands: 4'

2. CULVERTS☒ This section not applicable

- a. Number of culverts proposed: N/A
- b. Water body in which the culvert is to be placed:

< Form continues on back >

c. Type of culvert (construction material):

N/A

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): _____

(iii) Width of existing culvert(s): _____

(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)

f. Length of proposed culvert: _____

g. Width of proposed culvert: _____

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

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

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 applicablea. (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: _____

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

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

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: 10'(iii) Avg. width of area to be excavated: 30'(iv) Avg. depth of area to be excavated: 7(v) Amount of material to be excavated in cubic yards: 85

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

(i) Location of the spoil disposal area: Approved NCDOT Site

(ii) Dimensions of the spoil disposal area: To be determined 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: _____

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

(iv) Purpose of fill: _____

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 4593 ☐ 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: 280 ft.

(iii) Avg. width of area to be filled: 55 ft.

(iv) Purpose of fill: To slightly raise the road bed.

4. GENERAL

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

If yes, explain: See Utility Narrative

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

If yes, explain:

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

< 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?

Use of Standard NCDOT BMP's

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

Typical construction, earth moving, and road surface equipment will be used.

- 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.

- 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.

Date	1-24-11
Project Name	B-4463
Applicant Name	E. L. Lusk
Applicant Signature	



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

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	☒ Section 404 Permit ☐ Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23	or General Permit (GP) number:
1c. Has the NWP or GP number been verified by the Corps?	☐ Yes ☒ No
1d. Type(s) of approval sought from the DWQ (check all that apply): ☐ 401 Water Quality Certification – Regular ☐ Non-404 Jurisdictional General Permit ☐ 401 Water Quality Certification – Express ☐ Riparian Buffer Authorization	
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: ☒ Yes ☐ No
	For the record only for Corps Permit: ☐ Yes ☒ No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	☐ Yes ☒ No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	☒ Yes ☐ No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	☒ Yes ☐ No

2. Project Information

2a. Name of project:	Replacment of Bridge 12 over Queen Anne Creek on NC 32
2b. County:	Chowan
2c. Nearest municipality / town:	Edenton
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-4463

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 431-6746
3g. Fax no.:	(919) 431-2002
3h. Email address:	cdmanley@ncdot.gov

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

B. Project Information and Prior Project History		
1. Property Identification		
1a. Property identification no. (tax PIN or parcel ID):	not applicable	
1b. Site coordinates (in decimal degrees):	Latitude: 36.059441 (DD.DDDDDD)	Longitude: - 76.584881 (-DD.DDDDDD)
1c. Property size:	0.92 acres	
2. Surface Waters		
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Queen Anne Creek	
2b. Water Quality Classification of nearest receiving water:	C NSW	
2c. River basin:	Chowan	
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: Currently there is an existing roadway and bridge on site, and the surrounding area is forested and agriculture.		
3b. List the total estimated acreage of all existing wetlands on the property: 0.5		
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 110		
3d. Explain the purpose of the proposed project: NCDOT Bridge Maintenance Unit records indicate Bridge No. 12 has a sufficiency rating of 60.2 out of a possible 100 for a new structure. The bridge is considered functionally obsolete due to a deck geometry appraisal of 2 out of 9. Therefore, NCDOT proposes to replace Bridge No. 12 with a new bridge.		
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 46.5-foot bridge with a 60-foot, single-span bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.		
4. Jurisdictional Determinations		
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: Action ID 200511635	☒ 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): Michael Gloden, Craig Terwilliger, Elizabeth Scherrer, and David O'Loughlin	Agency/Consultant Company: EcoScience Corporation Other:	
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. March 7, 2006		
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. Stormwater Permit, July 16, 2010, SW7100502		
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 1 ☒ P ☐ T	Fill	riparian	☒ Yes ☐ No	☒ Corps ☐ DWQ	0.11
Site 2 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 3 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 4 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 5 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 6 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
2g. Total wetland impacts					0.11 Permanent

2h. Comments: There is 0.18 acre of hand clearing, within the hand clearing area there is 0.03 acre of temporary fill in wetlands for erosion control measures. There will also be 0.25 acre of hand clearing in wetlands for utilities. Within the 0.25 acre of hand clearing there will be 22 sq. ft. of temporary impact for pole removal or temporary poles, plus 2 sq. ft. of permanent impact for pole installation.

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			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 2 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 3 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 4 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 5 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 6 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
3h. Total stream and tributary impacts						0 Perm 0 Temp

3i. Comments:								
4. Open Water Impacts If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.								
4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact			4d. Waterbody type	4e. Area of impact (acres)		
O1 ☐ P ☒ T	Queen Anne Creek	fill			Stream	0.01		
O2 ☐ P ☐ T								
O3 ☐ P ☐ T								
O4 ☐ P ☐ T								
4f. Total open water impacts						0 Permanent 0.01 Temporary		
4g. Comments:								
5. Pond or Lake Construction If pond or lake construction proposed, then complete the chart below.								
5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	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.

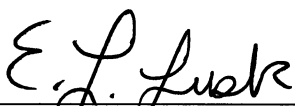
6a. Project is in which protected basin?			☐ Neuse ☐ Catawba			☐ Tar-Pamlico ☐ Randleman	☐ Other:
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)		
B1 ☐ P ☐ T			☐ Yes ☐ No				
B2 ☐ P ☐ T			☐ Yes ☐ No				
B3 ☐ P ☐ T			☐ Yes ☐ No				
6h. Total buffer impacts				0	0		
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 is 15 feet longer than the existing bridge; the bridge will be constructed with cored slab units; an off site detour will be used, 3:1 fill slopes where practicable. There will be an in-water work moratorium from February 15 to June 15 to minimize impacts to anadromous fish (per correspondence with NCWRC after the CE).		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Top down construction will be implemented, and there will be no workpads or causeways. The gas and water lines will be directional bored beneath jurisdictional areas.		
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 mitigation option will be used for this project?	☐ Mitigation bank ☒ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	☒ Yes	
4b. Stream mitigation requested:	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:	0.22 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 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
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes ☐ No
5b. Have all of the 401 Unit submittal requirements been met?	☐ Yes ☐ No

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	☒ Yes ☐ No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	☒ Yes ☐ No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments:	☒ Yes ☐ No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes ☒ No
2b. Is this an after-the-fact permit application?	☐ Yes ☒ No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes ☒ No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	☐ Yes	☒ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☒ Yes	☐ No
5c. If yes, indicate the USFWS Field Office you have contacted.	☒ Raleigh ☐ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NHP, Field Surveys, and USFWS		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☐ Yes	☒ No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	☐ Yes	☒ No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	☒ Yes	☐ No
8b. If yes, explain how project meets FEMA requirements: 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.)	1-24-11 Date