




STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

July 14, 2005

MEMORANDUM TO: Mr. C. E. Lassiter, Jr., P.E.  
Division 2 Engineer

FROM: Philip S. Harris, III, P.E.   
Natural Environment Unit Head  
Project Development and  
Environmental Analysis Branch

SUBJECT: Carteret; Replacement of Bridge No. 26 on SR 1154 over Deep  
Creek; State Project No. 8.2161001; Federal-Aid No. BRSTP-  
1154(2); T.I.P. No. B-3626

Attached is the 401 modification for Special Sediment Control Fencing for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

cc: Mr. Art McMillan, P.E.  
Mr. Jay Bennett, P.E.  
Mr. David Chang, P.E.  
Mr. Randy Garris, P.E.  
Mr. Greg Perfetti, P.E.  
Mr. Mark Staley  
Mr. John F. Sullivan, III, FHWA  
Mr. Omar Sultan  
Mr. Jay Johnson, Division 2 Environmental Officer

## PROJECT COMMITMENTS

Replacement of Bridge No. 26  
On SR 1154 over Deep Creek  
Federal-Aid No. BRSTP-1154(2)  
State Project No. 8.2161001  
T.I.P. No. B-3626  
Carteret County

Attached to this greensheet is the 401 modification for Special Sediment Control Fencing.

The following additional commitment has been agreed to by NCDOT:

### Division Construction Unit:

- Once the project is completed and the area has been stabilized naturally, all of the material used for the special sediment fence must be removed from the wetland area.

All Section 404, CAMA Conditions, Regional Conditions, State Consistency Conditions, Best Management Practices for the Protection of Surface Waters, NCDOT's Guidelines for Best Management Practices for Bridge Demolition and Removal, and Section 401 Conditions for Certification still apply. For your convenience, the previous commitments are listed below:

### *From the November 2004 Greensheet:*

In addition to all Section 404, CAMA Conditions, Regional Conditions, State Consistency Conditions, Best Management Practices for the Protection of Surface Waters, NCDOT's Guidelines for Best Management Practices for Bridge Demolition and Removal, and Section 401 Conditions for Certification, the following conditions have been agreed to by NCDOT:

### Division Construction Unit:

- No in-water or in-marsh work shall be conducted from February 15th to June 30th of any year without prior approval of the NC Division of Coastal Management (DCM), in consultation with the NC Wildlife Resources Commission (WRC). For purposes of this moratorium, in-water is defined as those areas that are inundated at any time during construction, including the waters or contiguous inundated wetlands of Deep Creek.
- Existing bridge pilings shall be extracted or removed flush with the streambed.
- Debris resulting from demolition of the existing bridge, including deck components, shall not enter wetlands or waters of the State, even temporarily.

### Division Construction Unit/ Roadside Environmental

- Design Standards for Sensitive Watersheds shall be used.
- Turbidity curtains shall be used to contain all bottom-disturbing activities, including pile or casement installation, placement of riprap, excavation or filling. The turbidity curtains are to be properly

maintained and retained in the water until construction is complete and turbidity within the curtains reaches ambient levels. The turbidity curtains shall be installed parallel to the stream banks on each side of the stream, extend past the construction limits, and attach to the silt fences containing the work site. The turbidity curtains shall not fully encircle the work area or extend across the stream. Turbidity curtains are to be retained in the water until construction is complete and all of the work area contained by the turbidity curtains has been stabilized by vegetation or other means.

Subject: B-3626, Action I.D. # 200411590, Bridge Replacement # 26 on NCSR 1154, Carteret County, NC

Date: Tue, 28 Jun 2005 14:35:27 -0400

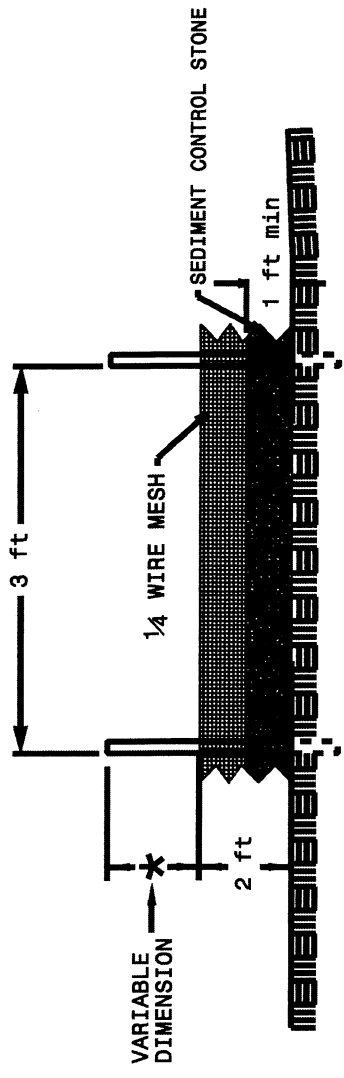
From: "Biddlecome, William J SAW" <William.J.Biddlecome@saw02.usace.army.mil>

To: <maturchy@dot.state.nc.us>

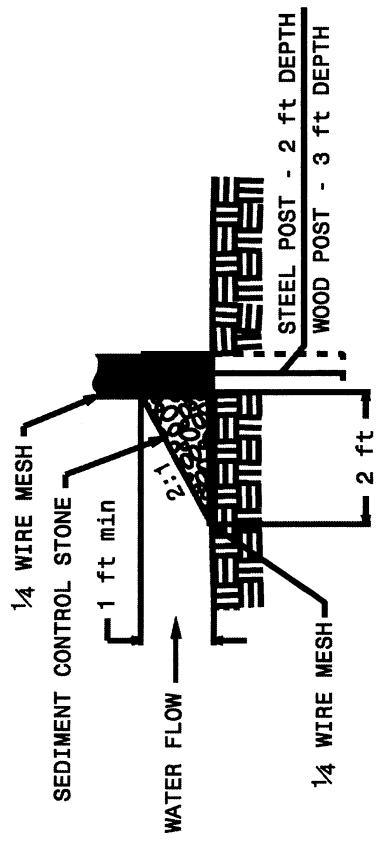
Michael,

Per your June 7, 2005, written request for the above, this e-mail serves as your authorization for a permit modification to place a special sediment control fence consisting of 1/4 wire mesh secured on #57 class stone impacting 0.02 acres of wetlands in the previously declared mechanized land clearing area. No additional compensatory mitigation is needed for this modification, however once the project is completed and the area has stabilized naturally, all of the material used for the special sediment fence must be removed from the wetland area. If you have any questions concerning this authorization and e-mail please contact me at (252) 975-1616 ext. 31.

Bill Biddlecome  
Regulatory Project Manager  
Washington Field Office

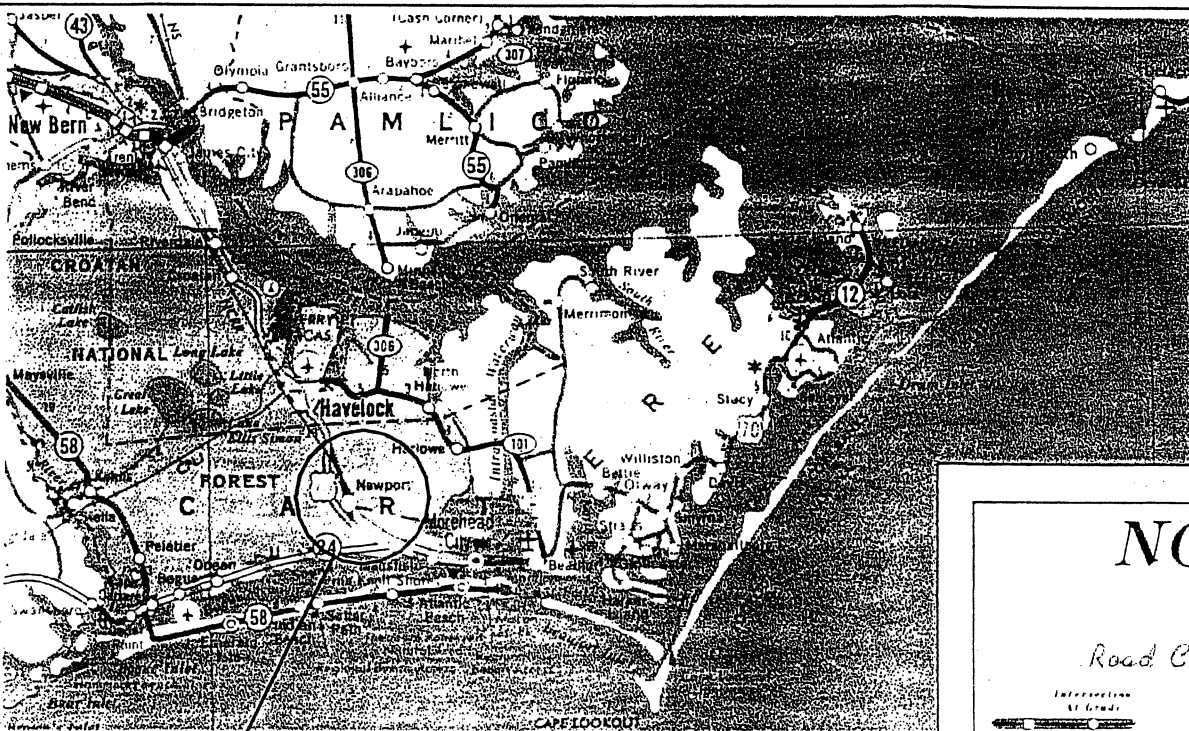
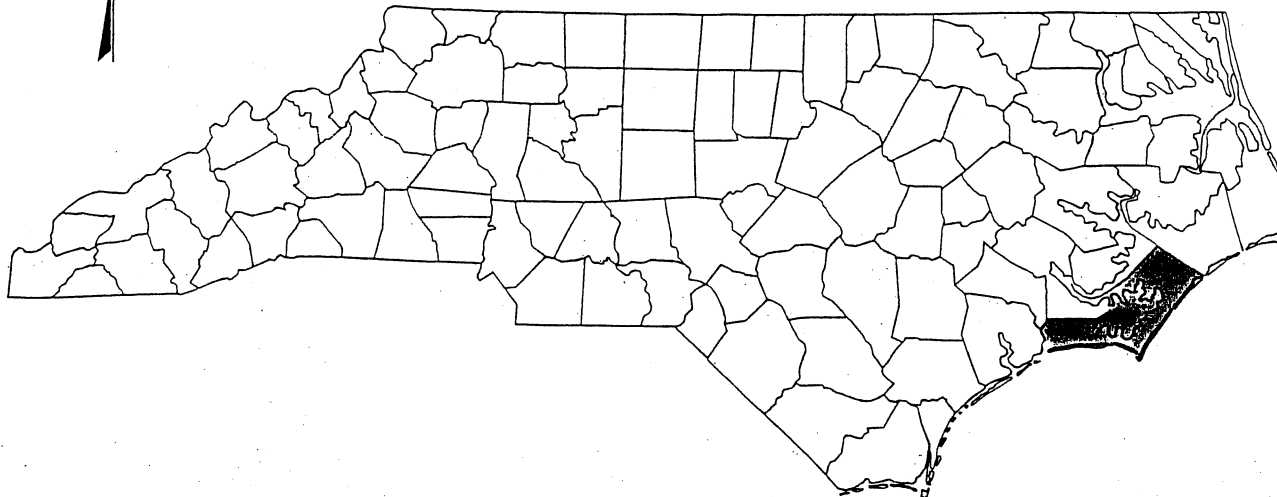


- GENERAL NOTES:**  
 USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL AND PAY FOR AT THE CONTRACT UNIT PRICE PER TON SEDIMENT CONTROL STONE.
- USE HARDWARE CLOTH 24 GAUGE WIRE MESH WITH 1/4 INCH MESH OPENINGS.
- INSTALL 5 FT. SELF FASTENER ANGLE STEEL POST 2 FT. DEEP MINIMUM.
- INSTALL 6 FT. LONG, 3 IN. DIA. WOOD POSTS 3 FT. DEEP MINIMUM.
- SPACE POSTS A MAXIMUM OF 3 FT.



# SPECIAL SEDIMENT CONTROL FENCE DETAIL

# VICINITY MAP NORTH CAROLINA



SITE

NORTH CAROLINA  
DEPARTMENT OF HIGHWAYS

CARTERET COUNTY  
8.2161001(B-3626)

BRIDGE NO. 26  
ON SR 1154  
OVER DEEP CREEK

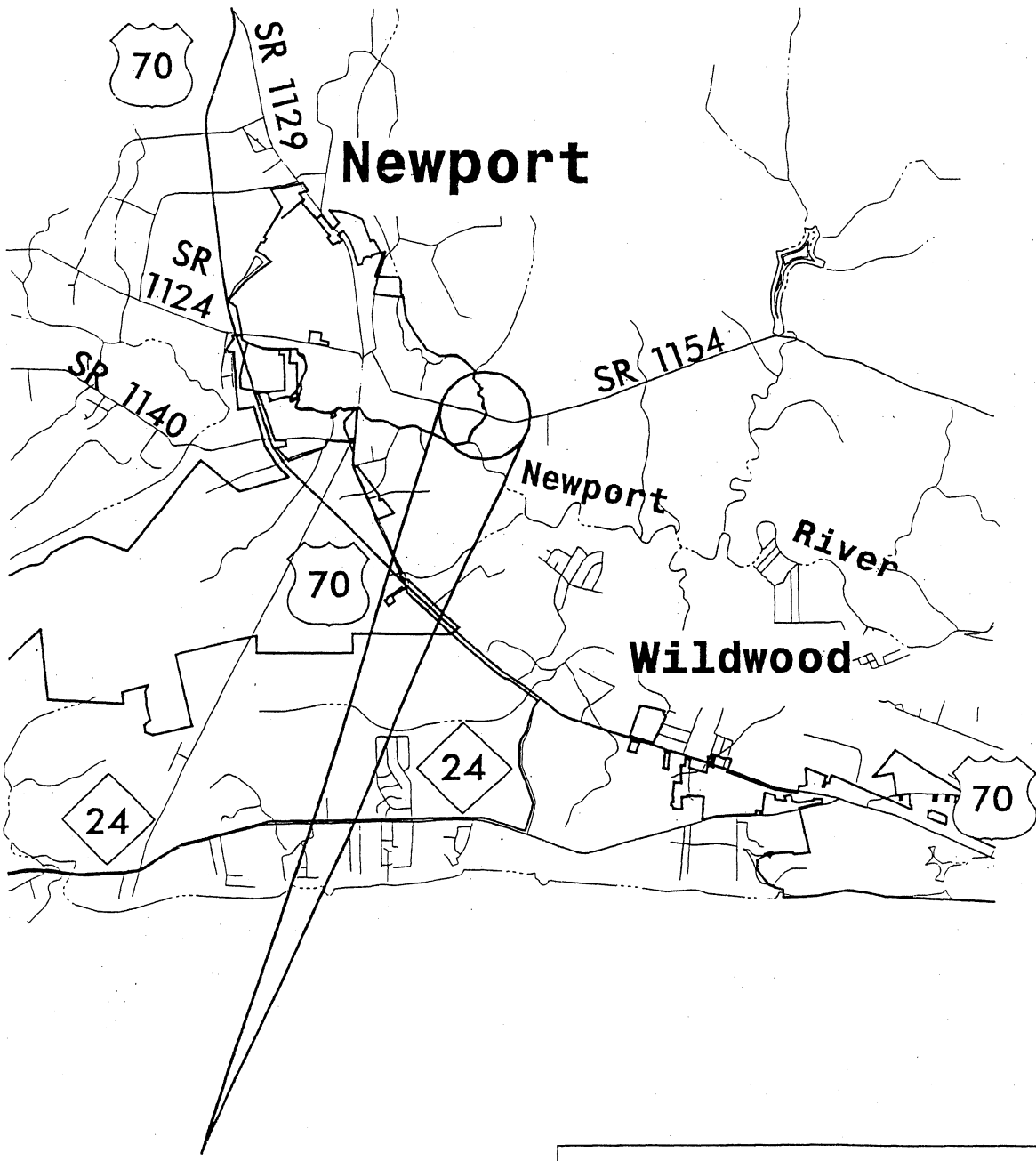
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SHEET 1 of 1

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# SITE MAP



**SITE**



**NORTH CAROLINA  
DEPARTMENT OF HIGHWAYS**

CARTERET COUNTY  
8.2161001 (B-3626)

BRIDGE NO. 26  
ON SR 1154  
OVER DEEP CREEK

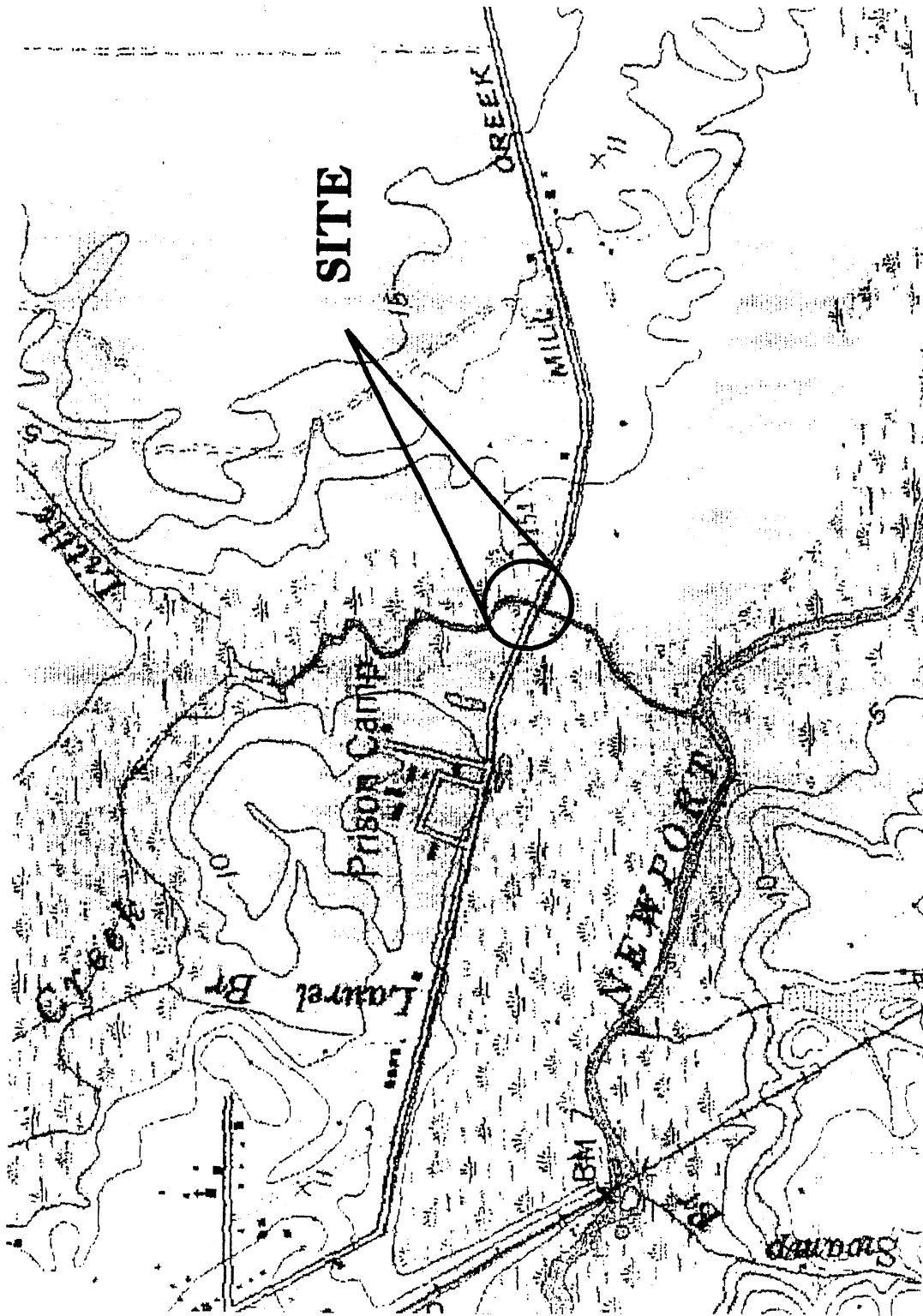
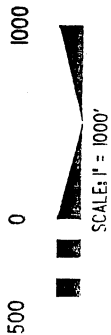
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# SITE MAP

## NORTH CAROLINA DEPARTMENT OF HIGHWAYS

CARTERET COUNTY  
8.2161001 (B-3626)

BRIDGE NO. 26  
ON SR 1154  
OVER DEEP CREEK






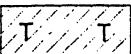
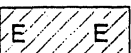
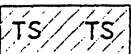
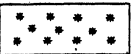
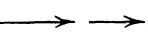
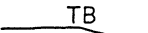

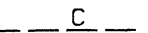
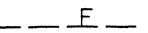

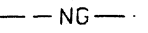
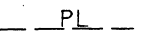
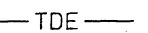
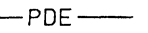
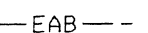
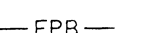

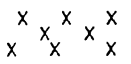

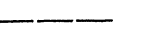
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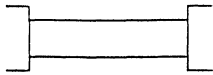
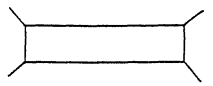

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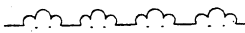
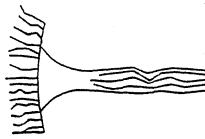
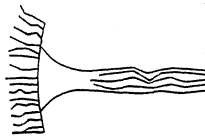



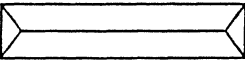
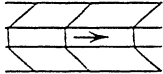
SHEET **3** OF **11**



# WETLAND LEGEND

-  WETLAND BOUNDARY
-  WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES FILL IN SURFACE WATER
-  DENOTES FILL IN SURFACE WATER (POND)
-  DENOTES TEMPORARY FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES MECHANIZED CLEARING
-  FLOW DIRECTION
-  TOP OF BANK
-  EDGE OF WATER
-  PROP. LIMIT OF CUT
-  PROP. LIMIT OF FILL
-  PROP. RIGHT OF WAY
-  NATURAL GROUND
-  PROPERTY LINE
-  TEMP. DRAINAGE EASEMENT
-  PERMANENT DRAINAGE EASEMENT
-  EXIST. ENDANGERED ANIMAL BOUNDARY
-  EXIST. ENDANGERED PLANT BOUNDARY
-  WATER SURFACE
-  LIVE STAKES
-  BOULDER
-  CORE FIBER ROLLS

-  PROPOSED BRIDGE
  -  PROPOSED BOX CULVERT
  -  PROPOSED PIPE CULVERT
- (DASHED LINES DENOTE EXISTING STRUCTURES)
- 12'-48' PIPES  
54' PIPES & ABOVE

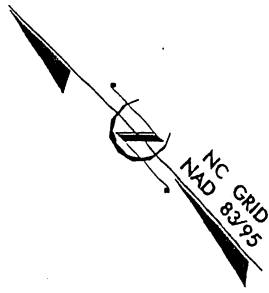
-  SINGLE TREE
-  WOODS LINE
-  DRAINAGE INLET
-  ROOTWAD
-  RIP RAP
-  ADJACENT PROPERTY OWNER OR PARCEL NUMBER (IF AVAILABLE)
-  PREFORMED SCOUR HOLE
-  LEVEL SPREADER (LS)
-  DITCH / GRASS SWALE

**NORTH CAROLINA  
DEPARTMENT OF HIGHWAYS**

CARTERET COUNTY  
8.2161001(B-3626)  
BRIDGE NO. 26  
ON SR 1154  
OVER DEEP CREEK

NOT TO SCALE

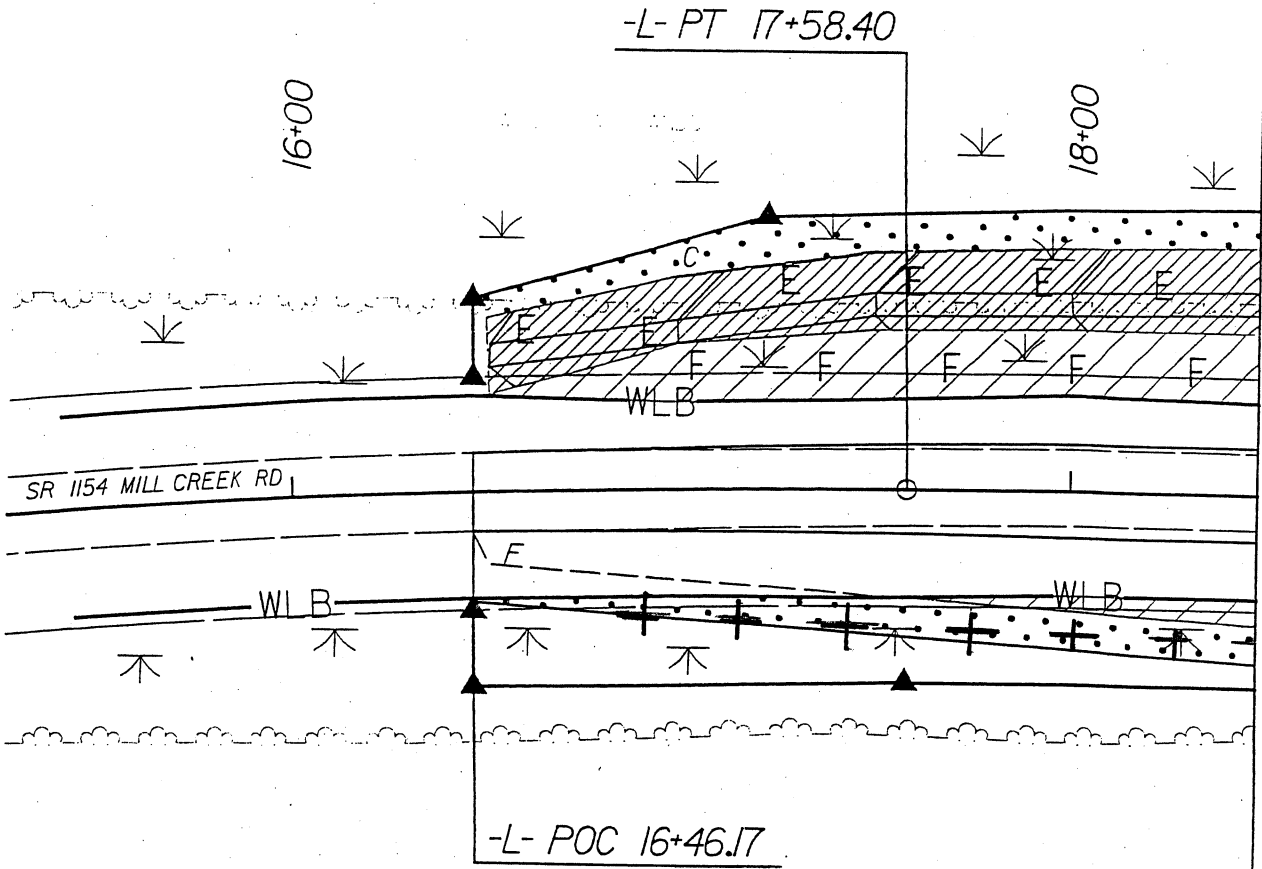
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1

NC DEPARTMENT OF CORRECTION

PROPERTY LINE IS ALONG RUN OF DEEP CREEK



MATCHLINE STA. 18+50

1

NC DEPARTMENT OF CORRECTION

WOODS W. ANDS

# PLAN VIEW SITE 1

## LEGEND

- WLB — WETLAND
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

+++ Special Sediment Control Fence  
(From Sta. 16+46 to 19+96)

## NORTH CAROLINA DEPARTMENT OF HIGHWAYS

CARTERET COUNTY  
8.2161001 (B-3626)

BRIDGE NO. 26  
ON SR 1154  
OVER DEEP CREEK



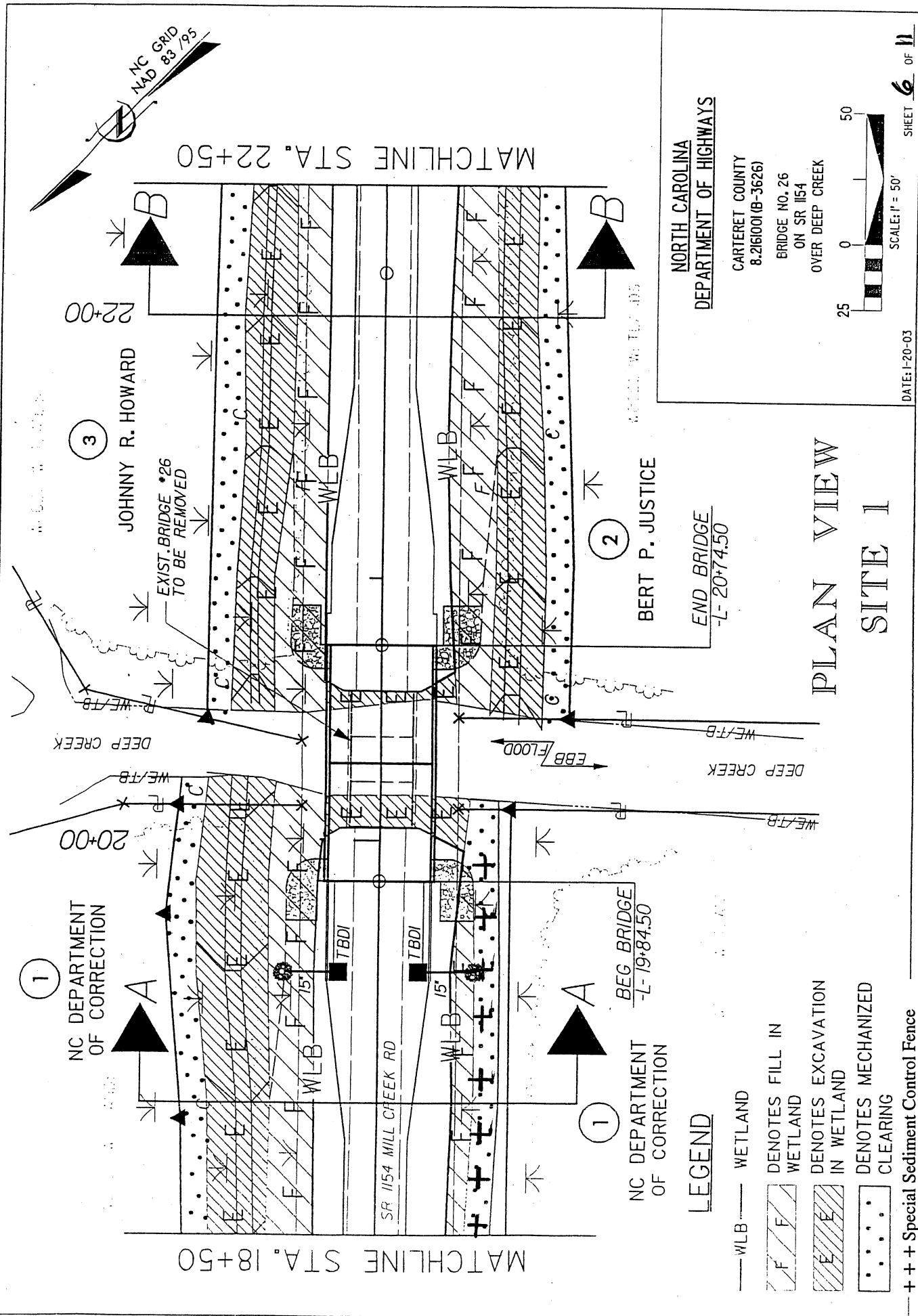
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SHEET 5 OF 11

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MATCHLINE STA. 22+50

MATCHLINE STA. 18+50

22+00

20+00

NC DEPARTMENT OF CORRECTION

JOHNNY R. HOWARD

EXIST. BRIDGE #26 TO BE REMOVED

BERT P. JUSTICE

END BRIDGE -L- 20+74.50

BEG BRIDGE -L- 19+84.50

NC DEPARTMENT OF CORRECTION

SR 1154 MILL CREEK RD

DEEP CREEK

DEEP CREEK

LEGEND

- WLB — WETLAND
- [Hatched] DENOTES FILL IN WETLAND
- [Hatched] DENOTES EXCAVATION IN WETLAND
- [Dotted] DENOTES MECHANIZED CLEARING

+ + + Special Sediment Control Fence  
 (From Sta. 16+46 to 19+96)

NORTH CAROLINA  
 DEPARTMENT OF HIGHWAYS

CARTERET COUNTY  
 8.2161001 (B-3626)  
 BRIDGE NO. 26  
 ON SR 1154  
 OVER DEEP CREEK

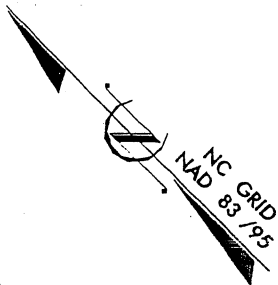
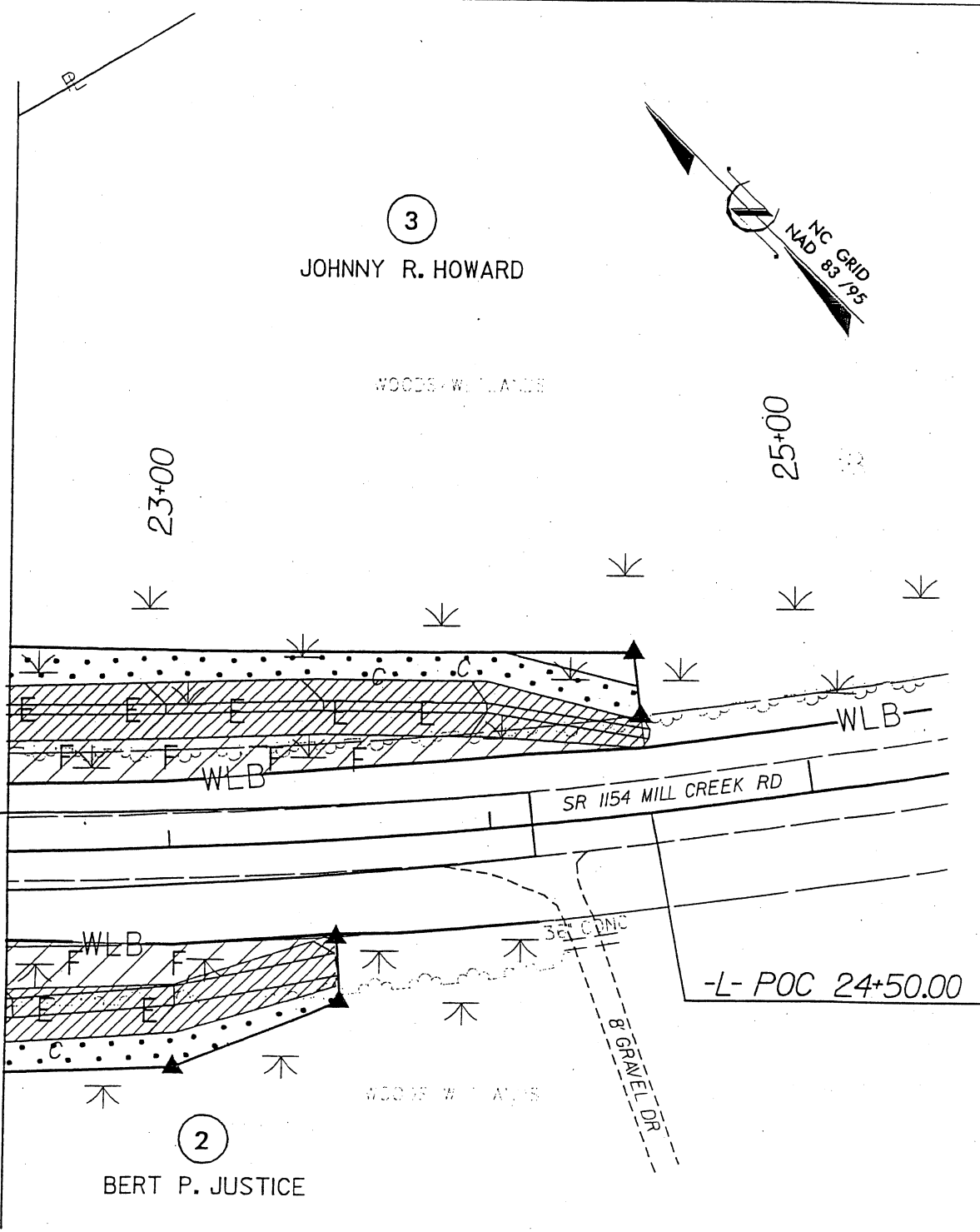


DATE: 1-20-03

SHEET 6 OF 11

PLAN VIEW  
 SITE I

MATCHLINE STA. 22+50



### PLAN VIEW

### LEGEND SITE 1

- WLB — WETLAND
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

**NORTH CAROLINA DEPARTMENT OF HIGHWAYS**

CARTERET COUNTY  
 8.2161001(B-3626)  
 BRIDGE NO. 26  
 ON SR 1154  
 OVER DEEP CREEK

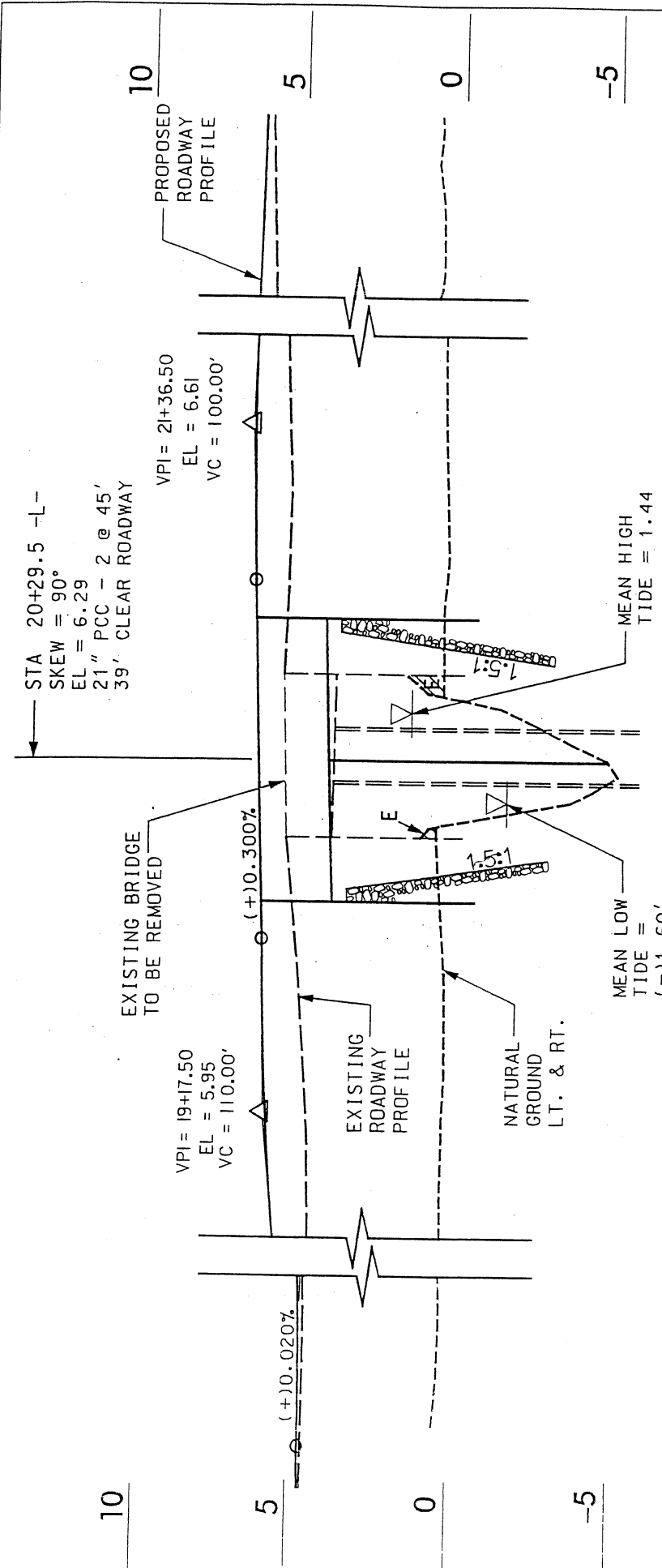


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SHEET 7 OF 11

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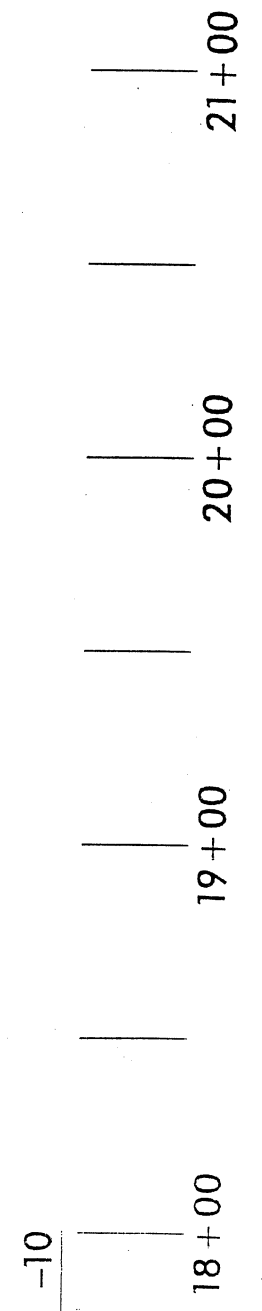
**NORTH CAROLINA**  
**DEPARTMENT OF HIGHWAYS**

CARTERET COUNTY  
8.2161001 (B-3626)

BRIDGE NO. 26  
ON SR 1154  
OVER DEEP CREEK

HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 5'

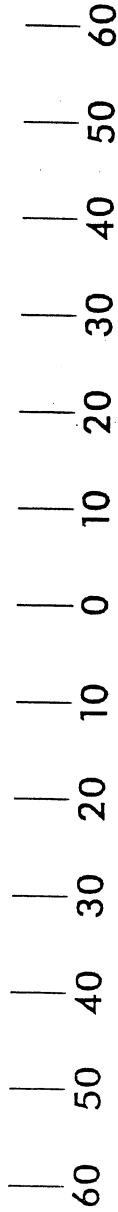
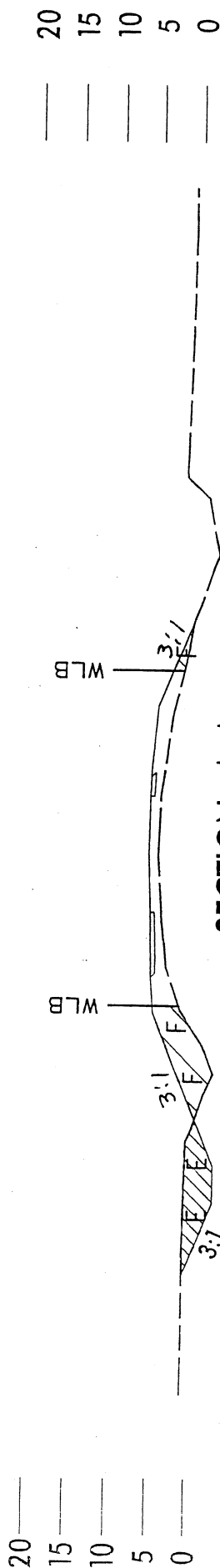
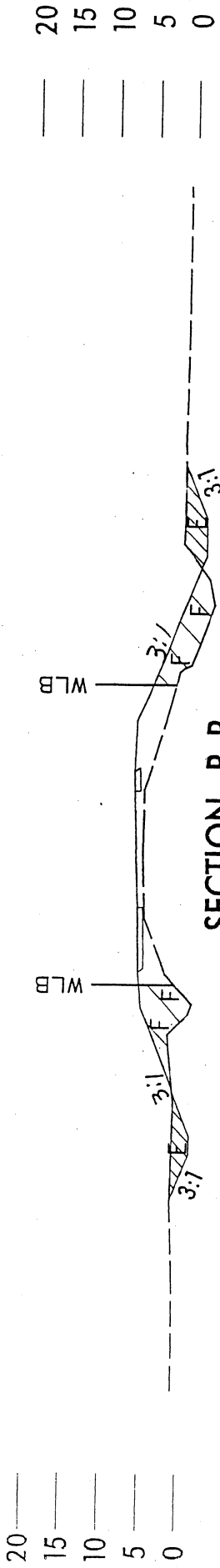
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**PROFILE**  
**SITE 1**

**LEGEND**

DENOTES EXCAVATION  
IN WETLAND

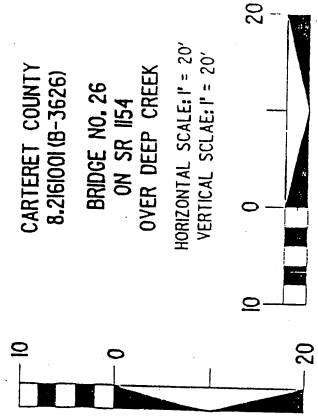


# TYPICAL X-SECTIONS SITE I

- LEGEND**
- WLB — WETLAND
  - DENOTES FILL IN WETLAND
  - DENOTES EXCAVATION IN WETLAND

NORTH CAROLINA  
 DEPARTMENT OF HIGHWAYS

CARTERET COUNTY  
 8.216(00)(B-3626)  
 BRIDGE NO. 26  
 ON SR 1154  
 OVER DEEP CREEK  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 20'



**WETLAND PERMIT IMPACT SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS						
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)			
1	16+46.17 - 19+84.50	ROADWAY APPROACH (WEST) LT & RT	0.154	---	0.171	0.142	---	---	---	---	---	---	---	---
1	19+84.50 - 20+74.50	BRIDGE LT & RT	0.035	---	0.071	0.031	---	---	---	---	---	---	---	---
1	20+74.50 - 24+50.00	ROADWAY APPROACH (EAST) LT & RT	0.197	---	0.250	0.151	---	---	---	---	---	---	---	---
<b>TOTALS:</b>			<b>0.386</b>	<b>0</b>	<b>0.492</b>	<b>0.324</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**NC DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**CARTERET COUNTY**  
**PROJECT: 8.2161001 (B-3626)**  
 SHEET **10** OF **11**

1/16/2003

Form Revised 3/2/01





\*\*\*\*\*  
 SYSTEMS  
 2004  
 US  
 \*\*\*\*\*

**CONTRACT NO.: C200818 TIP PROJECT: B-3626**



**DESIGN DATA**

ADT 2001 = 1500  
 ADT 2025 = 3000  
 DHV = 20%  
 D = 70%  
 T = 4%\*  
 V = 60 MPH  
 \* TTST 1% DUAL 3%

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-3626 = 0.135 mi  
 LENGTH STRUCTURES TIP PROJECT B-3626 = 0.017 mi  
 TOTAL LENGTH TIP PROJECT B-3626 = 0.152 mi

**RIGHT OF WAY DATE:**  
 FEBRUARY 21, 2003

**LETTING DATE:**  
 APRIL 20, 2004

2002 STANDARD SPECIFICATIONS  
 CATHY S. HOUSER, PE  
 DESIGN SERVICES PROJECT ENGINEER  
 JAMES W. PARKER JR. PE, PLS  
 PROJECT ENGINEER  
 DENNIS NATION, PE  
 PROJECT DESIGN ENGINEER

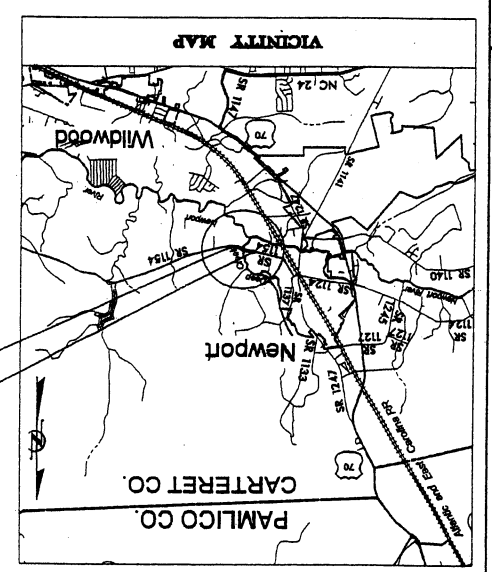
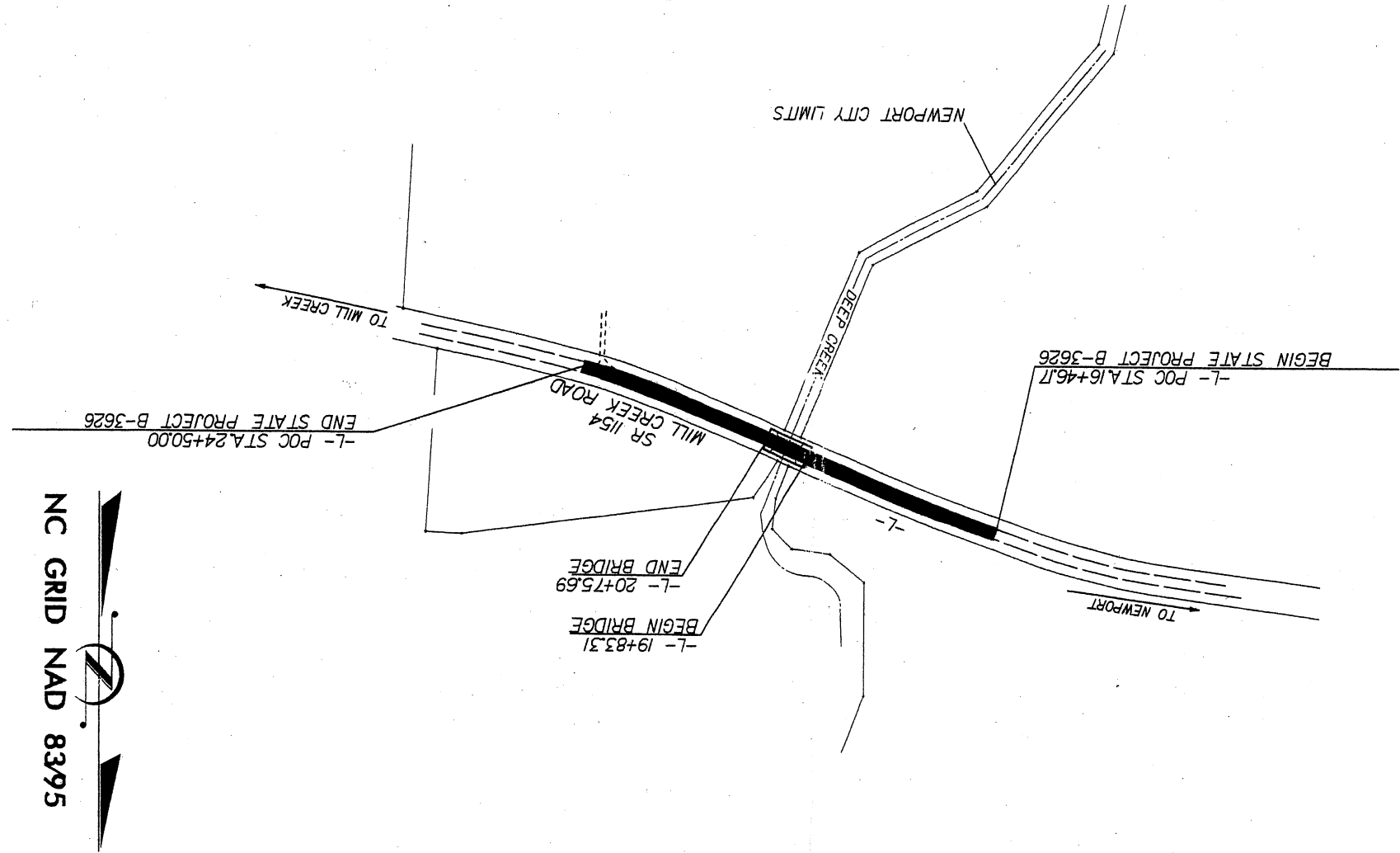
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 SEAL 21162  
 NORTH CAROLINA PROFESSIONAL ENGINEERS  
 1-31-04

**ROADWAY DESIGN ENGINEER**  
 SEAL 15450  
 NORTH CAROLINA PROFESSIONAL ENGINEERS  
 11-29-04

STATE DESIGN ENGINEER  
 DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED DIVISION ADMINISTRATOR  
 DATE

Prepared in the Office of:  
**SEAR·BROWN**  
 1000 Corporate Drive, Suite 101  
 Hillsborough, NC 27278-9861  
 (919) 732-5885  
 www.searbrown.com



**LOCATION: BRIDGE NO. 26 OVER DEEP CREEK AND APPROACHES ON SR 1154 (MILL CREEK ROAD)**

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

**STATE OF NORTH CAROLINA**  
**DIVISION OF HIGHWAYS**  
**CARTERET COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3626	1	1
STATE PROJ. NO.	33174.1.2		
DESCRIPTION	BRSTP-1154(2)	PE	
	33174.2.2	RW & UTILITY	
	BRSTP-1154(3)	CONSTR.	
	33174.3.2		

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

# CONVENTIONAL PLAN SHEET SYMBOLS

PREPARED BY: SEAR BROWN  
1000 Corporate Drive, Suite 101  
Hillsborough, NC 27278-8661  
(919) 732-3883  
www.searbrown.com

## BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin
- Property Corner
- Property Monument
- Parcel/Sequence Number
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary
- Proposed Wetland Boundary
- Existing High Quality Wetland Boundary
- Existing Endangered Animal Boundary
- Existing Endangered Plant Boundary

## 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
- River Basin Buffer
- Flow Arrow
- Disappearing Stream
- Spring
- Swamp Marsh
- 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
- Proposed Temporary Construction Easement
- Proposed Temporary Drainage Easement
- Proposed Permanent Drainage Easement
- Proposed Permanent Utility Easement

## ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut
- Proposed Slope Stakes Fill
- Proposed Wheel Chair Ramp
- Proposed Wheel Chair Ramp
- Curb Cut for Future Wheel Chair Ramp
- Existing Metal Guardrail
- Proposed Guardrail
- Proposed Cable Guidetail
- Existing Cable Guidetail
- Proposed Cable Guidetail
- Equality Symbol
- Pavement Removal

## VEGETATION:

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

## EXISTING STRUCTURES:

- MAJOR: Bridge, Tunnel or Box Culvert
- MINOR: Bridge Wing Wall, Head Wall and End Wall
- Head and End Wall
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB
- Paved Ditch Gutter
- Storm Sewer Manhole
- Storm Sewer

## UTILITIES:

- 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
- Designated UG Power Line (S.U.E.\*)

## 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
- Designated UG Telephone Cable (S.U.E.\*)
- Recorded UG Telephone Conduit
- Designated UG Telephone Conduit (S.U.E.\*)
- Recorded UG Fiber Optics Cable
- Designated UG Fiber Optics Cable (S.U.E.\*)

## SANITARY SEWER:

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

## MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box
- Utility Unknown UG Line
- UG Tank; Water, Gas, Oil
- AG Tank; Water, Gas, Oil
- UG Test Hole (S.U.E.\*)
- Abandoned According to Utility Records
- End of Information

## WATER:

- Water Manhole
- Water Meter
- Water Valve
- Water Hydrant
- Recorded UG Water Line
- Designated UG Water Line (S.U.E.\*)
- Above Ground Water Line

## TV:

- TV Satellite Dish
- TV Pedestal
- TV Tower
- UG TV Cable Hand Hole
- Recorded UG TV Cable
- Designated UG TV Cable (S.U.E.\*)
- Gas Valve
- Gas Meter
- Recorded UG Gas Line
- Designated UG Gas Line (S.U.E.\*)
- Above Ground Gas Line

## GAS:

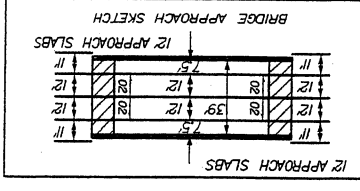
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- Sanitary Sewer Cleanout
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- Above Ground Sanitary Sewer
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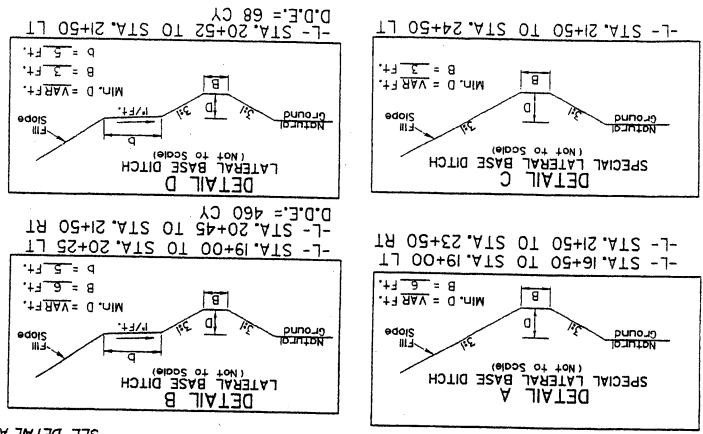
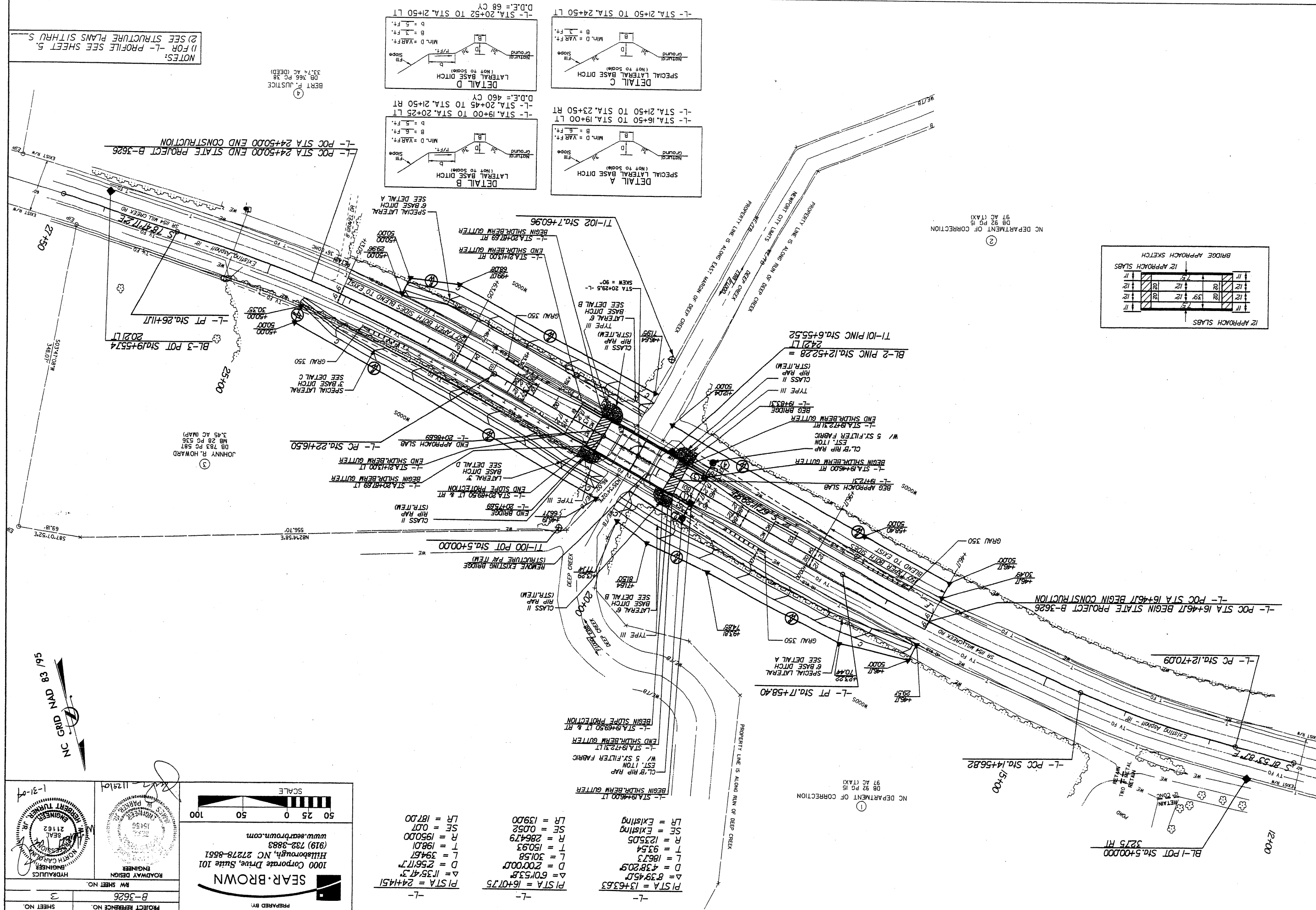
REVISIONS

8/17/99



NC DEPARTMENT OF CORRECTION  
DB 92 PG 15  
97 AC (TAX)

NC DEPARTMENT OF CORRECTION  
DB 92 PG 15  
97 AC (TAX)



BERT P. JUSTICE  
DB 366 PG 38  
337.4 AC (REED)

JOHNNY R. HOWARD  
DB 783 PG 537  
3.45 AC (MAP)

NOTES:  
1) FOR -L- PROFILE SEE SHEET 5.  
2) SEE STRUCTURE PLANS S1THRU 5.

PREPARED BY: SEAR·BROWN

1000 Corporate Drive, Suite 101  
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SCALE: 1" = 50'

PROJECT REFERENCE NO. B-3626  
SHEET NO. 3

HYDRAULICS ENGINEER  
ROADWAY DESIGN ENGINEER

Professional Engineer Seal: JOHN W. TURNER, No. 21162, State of North Carolina

P1 STA = 13+63.53	P1 STA = 16+07.75	P1 STA = 24+14.51
Δ = 8'39"45.0"	Δ = 60'53.8"	Δ = 1'35"47.3"
D = 4'38"20.9"	D = 2'00"00.0"	D = 2'56"17.7"
L = 186.73	L = 301.58	L = 394.67
T = 93.54	T = 150.93	T = 198.01
R = 1235.05	R = 2864.79	R = 1950.00
SE = Existing	SE = 0.07	SE = 0.07
LR = Existing	LR = 139.00	LR = 187.00

NC GRID NAD 83 96