



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

December 11, 2012

U.S. Army Corps of Engineers
Regulatory Field Office
2407 West 5th Street
Washington, NC 27889

Attention: Mr. Tom Steffens
NCDOT Coordinator

Dear Sir:

Subject: **Application for Section 404 Nationwide Permits (NWP) 23 & 12, and Section 401 Water Quality Certification** for the replacement of Bridge No. 65 over Contentnea Creek on SR 1163 in Wilson County; TIP Project B-5126; Federal Aid Project No. BRSTP-1163(8); Debit \$240 from WBS No. 42283.1.1.

Please find enclosed PCN, permit drawings, stormwater management plan, and roadway plans for the above referenced project proposed by the North Carolina Department of Transportation (NCDOT). A Categorical Exclusion (CE) was completed for this project on July 7 2011 and distributed shortly thereafter. Additional copies are available upon request. The NCDOT proposes to replace existing Bridge No. 65 over Contentnea Creek on SR 1163 in Wilson County. The project involves replacement of the existing structurally deficient bridge and approaches with a new structure. The replacement structure will be approximately 70 feet long providing a minimum 48 foot clear deck width. The bridge will include three 12-foot lanes and a minimum of 6-foot offsets. The approach roadway will extend approximately 500 feet from the southwest end and 400 feet from the northeast end of the new bridge. The southeast approach will begin as a 24-foot pavement width providing two 12-foot lanes, and will widen to three 12-foot lanes approximately 150 feet before the bridge. Eight-foot shoulders will be provided at this end of the approach. The northeast approach will be widened to include four 12-foot lanes. Eight-foot shoulders (11-foot shoulders where guardrail is included), including four-foot paved shoulders, will be provided at this end of the approach.

Proposed permanent impacts to riparian wetlands from bridge construction are 0.06 acre of fill. Utility relocations will require less than 0.01 acre of fill in wetlands. Traffic will be detoured off-site during construction.

MAILING ADDRESS:

NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
NATURAL ENVIRONMENT SECTION
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6100
FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:

1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610-4328

This project calls for a letting date of June 18, 2013 and a review date of April 30, 2013; however, the let date may advance as additional funding becomes available.

Regulatory Approvals

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 the project be authorized by NWP 23 for bridge construction and NWP 12 for utility relocations.

Section 401 Permit: We anticipate 401 General Certification numbers 3891 and 3884 will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of Environmental and Natural Resources, Division of Water Quality. We are providing two copies of this application to the NCDWQ for their approval.

Neuse Riparian Buffer Authorization: Although this projects lies in the Neuse River Basin, the NCDWQ has determined that this project is not subject to the Neuse Basin Riparian Buffer rules, therefore a Riparian Buffer Authorization will not be required.

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

If you have any questions or need additional information, please contact Gordon Cashin at (919) 707-6107.

Sincerely,



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

cc

NCDOT Permit Application Standard Distribution List.

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
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):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.706963, Longitude: -77.952923
1c. Property size:	8.1 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Contentnea Creek
2b. Water Quality Classification of nearest receiving water:	WS IV; NSW; CA
2c. River basin:	Neuse River Basin
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: Urban, forested stream corridors, Wiggins Mill Reservoir	
3b. List the total estimated acreage of all existing wetlands on the property: 1.1	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 149 feet	
3d. Explain the purpose of the proposed project: To replace a structurally deficient bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a bridge on the existing alignment using 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: William Wescott visited the site on May 28, 2009, but no JD was issued. JD is requested with this application.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Richard Darling, Dwayne Huneycutt	Agency/Consultant Company: Baker Engineering Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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):						
<input checked="" type="checkbox"/> Wetlands		<input type="checkbox"/> Streams - tributaries		<input type="checkbox"/> Buffers		
<input checked="" type="checkbox"/> Open Waters		<input type="checkbox"/> Pond Construction				
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)	
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill - bridge	riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.06	
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill - utilities	riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts					0.06 Perm.	
2h. Comments: There will be 0.08 ac of hand clearing due to bridge construction & 0.08 ac due to utility relocation. Additionally, there will be 0.01 ac of temporary fill in wetlands in the hand clearing areas for the installation of erosion control measures, including temporary silt fence and/or special sediment control fence.						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts					0.0 Perm 0.0 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 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Contentnea Creek	Permanent		<0.01
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				<0.01 Permanent

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no:
5i. Expected pond surface area (acres):	
5j. Size of pond watershed (acres):	
5k. Method of construction:	

6. Buffer Impacts (for DWQ)

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

6a. Project is in which protected basin?		<input type="checkbox"/> Neuse <input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other: <input type="checkbox"/> Catawba <input type="checkbox"/> Randleman			
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					
6i. Comments:					

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 bridges are longer than the existing bridge; the proposed bridges will be at approximately the same grade as the existing structures; an off site detour will be used. Slopes of 3:1 will be constructed in wetlands.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Sub regional tier design guidelines for bridge projects were used to develop this project. Best management practices include replacement of bridge along existing alignment, minimization of fill slopes and use of hand clearing as opposed to mechanized clearing.		
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain: Due to the minimal amount of impacts, compensatory mitigation is not proposed.	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
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.	<input type="checkbox"/> Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
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?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.				
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).				
6h. Comments:				

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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> 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):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh	<input type="checkbox"/> Asheville
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? USFWS County Site, NC Natural Heritage site		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS 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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
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.)	12.10.12 Date



North Carolina Department of Transportation
 Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
 FOR LINEAR ROADWAY PROJECTS

(Version 1.2; Released July 2012)

General Project Information	
Project No.:	B-5126
NCDOT Contact:	Randy Henegar, P.E. 1590 Mail Service center Raleigh, NC 27699
Address:	
Phone:	919-707-6726
Email:	rhenegar@ncdot.gov
City/Town:	Wilson
River Basin(s):	Neuse
Primary Receiving Water:	Contentnea Creek
NCDWQ Surface Water Classification for Primary Receiving Water	Primary: Water Supply IV (WS-IV) Supplemental: Nutrient Sensitive Waters (NSW) CA
Other Stream Classification:	None
303(d) Impairments:	None
Buffer Rules in Effect	
Project Description	
Project Length (lin. Miles or feet):	0.184 MILES
Project Built-Up Area (ac.)	1.05
Typical Cross Section Description:	48' FACE TO FACE @ NORMAL CROWN
Average Daily Traffic (veh/hr/day):	Design/Future: ADT 2035=14,700 TRK 3%
General Project Narrative:	B-5126 has a project # of 42283.1.1, Sta 21+36 _L_ Over Contentnea Creek. This is an overflow bridge, county brg. # 970065., on SR 1163 between 264 ByPass and SR 1165. Length of roadway project = 0.171 miles, Length of structure= 0.013 miles, total length of State Project = 0.184 miles, project is within Municipal boundaries of Wilson.
Project Length (lin. Miles or feet):	Swamp, woods.
Project Built-Up Area (ac.)	Existing Site 0.77
Typical Cross Section Description:	24' FACE TO FACE @ NORMAL CROWN
Average Daily Traffic (veh/hr/day):	Existing: ADT 2009=8000
General Project Narrative:	This is an overflow bridge, county brg. # 970065., on SR 1163 between 264 ByPass and SR 1165. Length of roadway project = 0.171 miles, Length of structure= 0.013 miles, total length of State Project = 0.184 miles, project is within Municipal boundaries of Wilson.

References

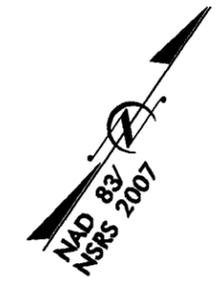
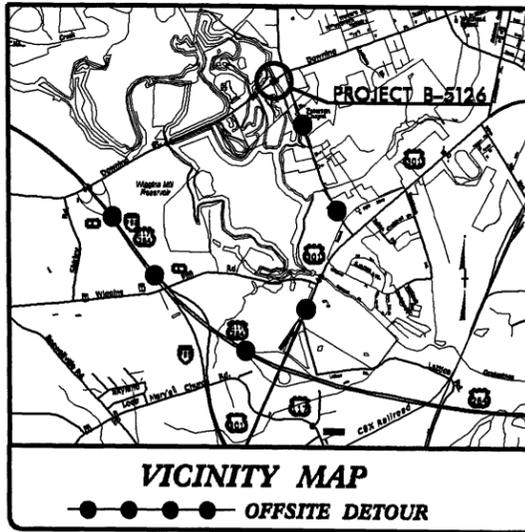
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

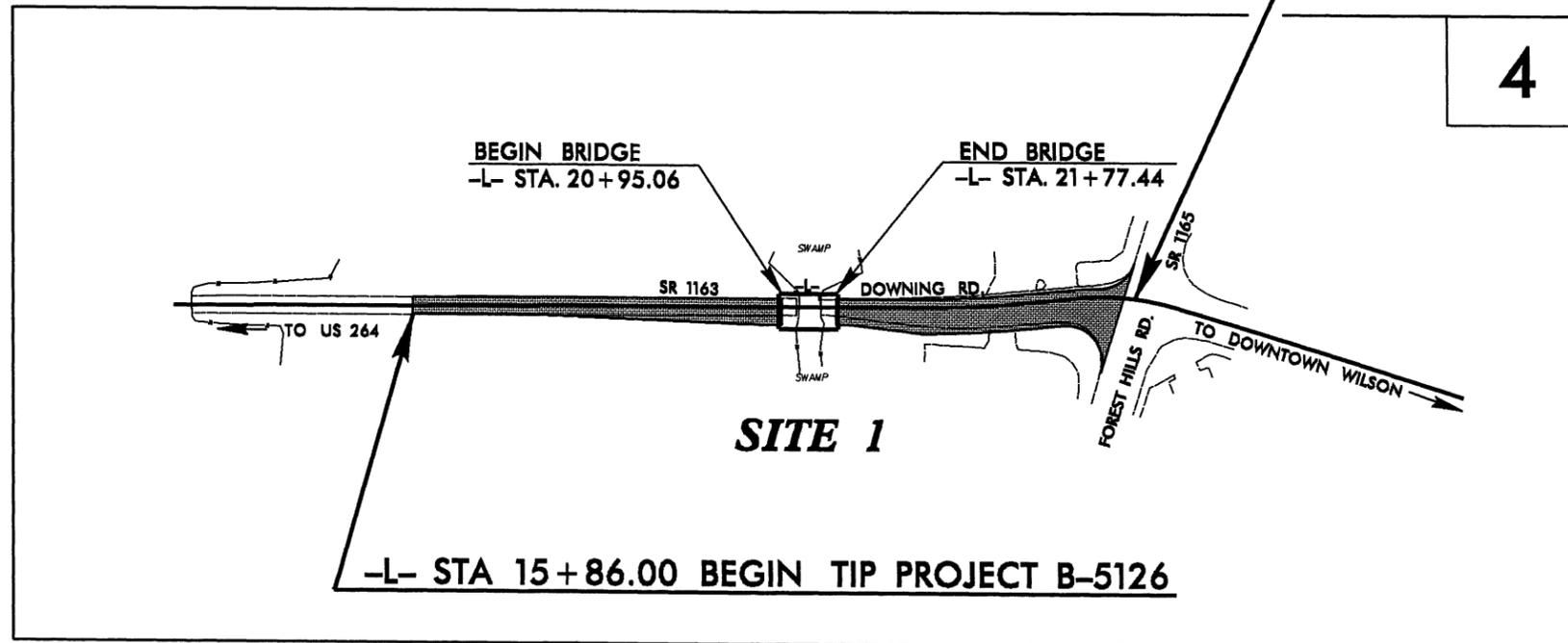
LOCATION: BRIDGE 65 OVER A SWAMP OF CONTENTNEA CK
OVERFLOW/WIGGINS MILL RESERVOIR ON SR 1163
(DOWNING ROAD) IN WILSON

WETLAND AND SURFACE WATER IMPACTS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5126	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42283.1.1	BRSTP-1163(8)	PE	
42283.2.1	BRSTP-1163(8)	R/W & UTIL	



-L- STA 25+75.00 END TIP PROJECT B-5126



-L- STA 15+86.00 BEGIN TIP PROJECT B-5126

Permit Drawing
Sheet 1 of 8

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF WILSON

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

<p>GRAPHIC SCALES</p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p>	<p>DESIGN DATA</p> <p>ADT 2012 = 8,774 ADT 2035 = 14,700 DHV = 14 % D = 80 % T = 3 % * V = 60 MPH * TTST = 1% DUAL = 2% FUNC CLASS = LOCAL SUB REGIONAL TIER</p>	<p>PROJECT LENGTH</p> <p>LENGTH OF ROADWAY TIP PROJECT B-5126 = 0.171 MILES LENGTH OF STRUCTURE TIP PROJECT B-5126 = 0.016 MILES TOTAL LENGTH OF STATE PROJECT B-5126 = 0.187 MILES</p>	<p>Prepared in the Office of: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr., Raleigh NC, 27610</p> <p>2006 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: JUNE 15, 2012</p> <p>LETTING DATE: JUNE 18, 2013</p> <p>JAMES A. SPEER, PE PROJECT ENGINEER</p> <p>ALLISON K. WHITE PROJECT DESIGN ENGINEER</p>	<p>HYDRAULICS ENGINEER</p> <p>SIGNATURE: _____ P.E.</p> <p>ROADWAY DESIGN ENGINEER</p> <p>SIGNATURE: _____ P.E.</p>	
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CONTRACT: C203157 TIP PROJECT: B-5126
 \$\$\$SYTIME\$\$\$\$\$
 \$\$\$DGN\$\$\$\$\$
 \$\$\$USERNAME\$\$\$\$\$

PROJECT REFERENCE NO.		SHEET NO.	
B-5126		4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
DO NOT USE FOR CONSTRUCTION			

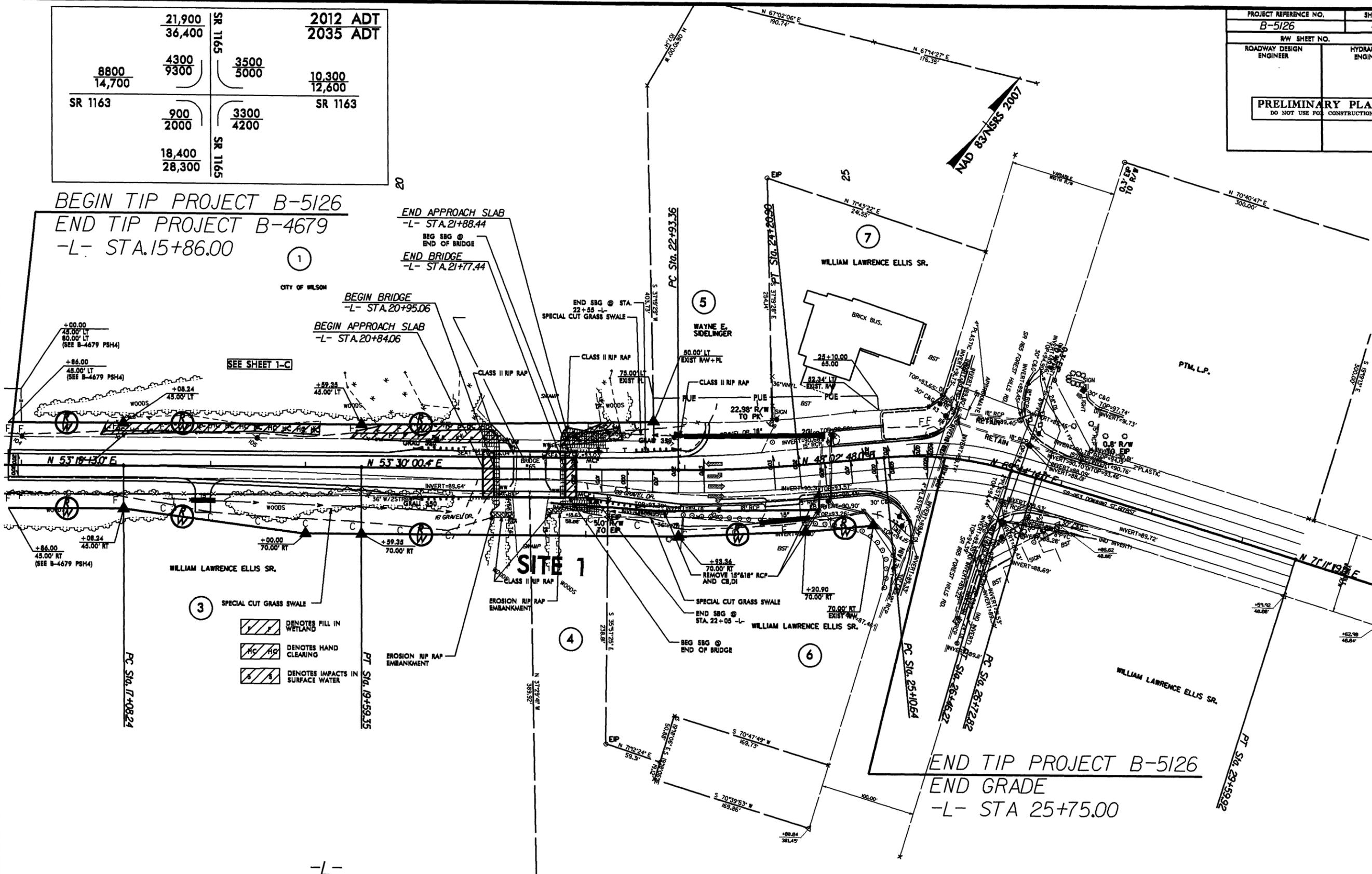
21,900	SR 1165	2012 ADT
36,400		2035 ADT
8800	4300	3500
14,700	9300	5000
		10,300
SR 1163	900	3300
	2000	4200
	18,400	SR 1163
	28,300	

BEGIN TIP PROJECT B-5126
 END TIP PROJECT B-4679
 -L- STA.15+86.00

END APPROACH SLAB
 -L- STA.21+88.44
 BEG SBG @ END OF BRIDGE
 END BRIDGE
 -L- STA.21+77.44

BEGIN BRIDGE
 -L- STA.20+95.06
 BEGIN APPROACH SLAB
 -L- STA.20+84.06

END TIP PROJECT B-5126
 END GRADE
 -L- STA 25+75.00

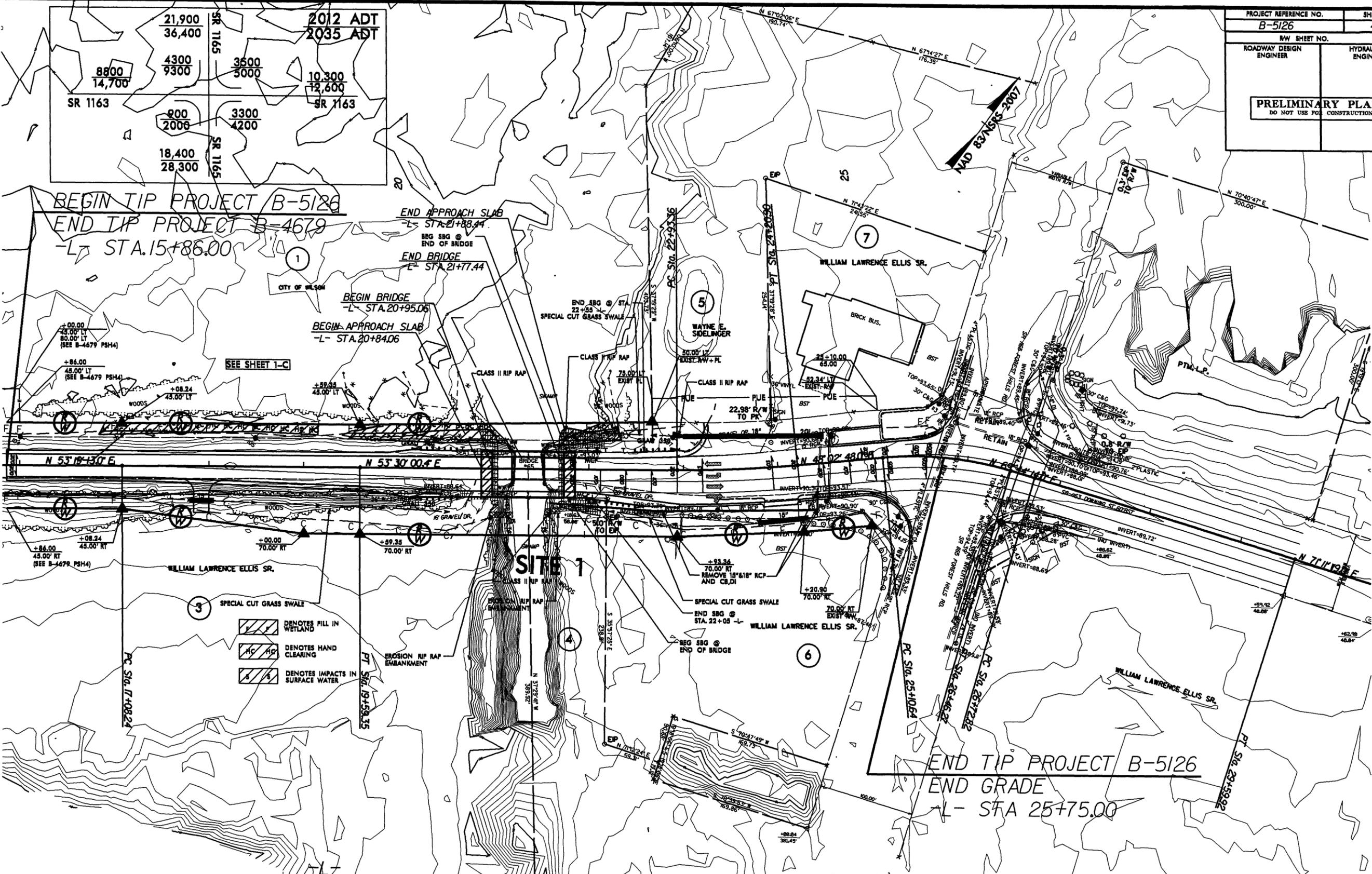


PI Sta 18+33.80	PI Sta 23+57.18	PI Sta 25+79.28	PI Sta 28+16.38
$\Delta = 0^{\circ}10'47.4''$ (RT)	$\Delta = 5^{\circ}27'12.4''$ (LT)	$\Delta = 2^{\circ}42'23.3''$ (RT)	$\Delta = 1^{\circ}26'07.9''$ (RT)
D = 0'04'17.8"	D = 4'16'32.9"	D = 16'00'15.9"	D = 0'30'00.0"
L = 251.1'	L = 127.54'	L = 135.63'	L = 287.10'
T = 125.56'	T = 63.82'	T = 68.64'	T = 143.56'
R = 80,000.00'	R = 1,340.00'	R = 358.00'	R = 11,459.16'
SE = NC	SE = 03		
	RO = SEE PLAN		

Permit Drawing
 Sheet 2 of 8

REVISIONS
 Parcel 5 - Extended Proposed PUE to exist. PL
 7/25/12
 8/17/09

PROJECT REFERENCE NO. B-5126	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



PI Sta 18+33.80 Δ = 0' 0" 47.4' (RT) D = 0' 0" 17.8' L = 251.11' T = 125.56' R = 80,000.00' SE = NC	PI Sta 23+57.18 Δ = 5' 27" 12.4' (LT) D = 4' 16" 32.9' L = 127.54' T = 63.82' R = 1,340.00' SE = 03 RO = SEE PLAN	PI Sta 25+79.28 Δ = 21' 42" 23.3' (RT) D = 16' 00" 15.9' L = 135.63' T = 68.64' R = 358.00'	PI Sta 28+16.38 Δ = 1' 26" 07.9' (RT) D = 0' 30" 00.0' L = 287.10' T = 143.56' R = 11,459.16'
---	--	--	--

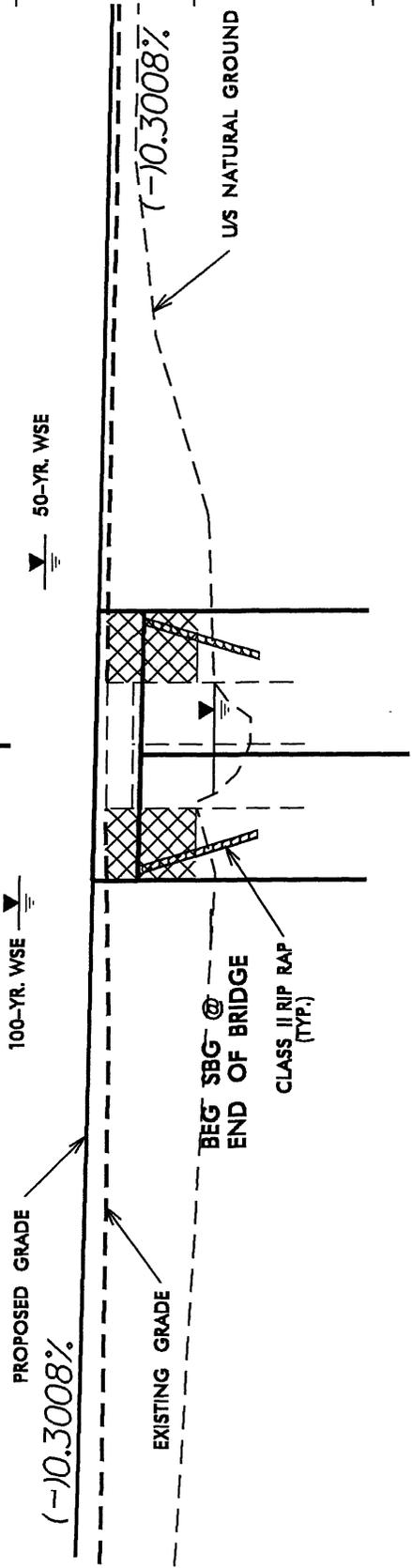
REVISIONS
 Parcel 5 - Extended Proposed PUE to exist. PL
 wsd 7/25/12

Permit Drawing
Sheet 3 of 8

C STA. 21+36.00-L-
 1 @ 35', 1 @ 40'; 21" CORED SLAB
 C GRADE = 95.21'
 SKEW = 90 DEGREES

100-YR. WSE
 50-YR. WSE

100
90
80
70



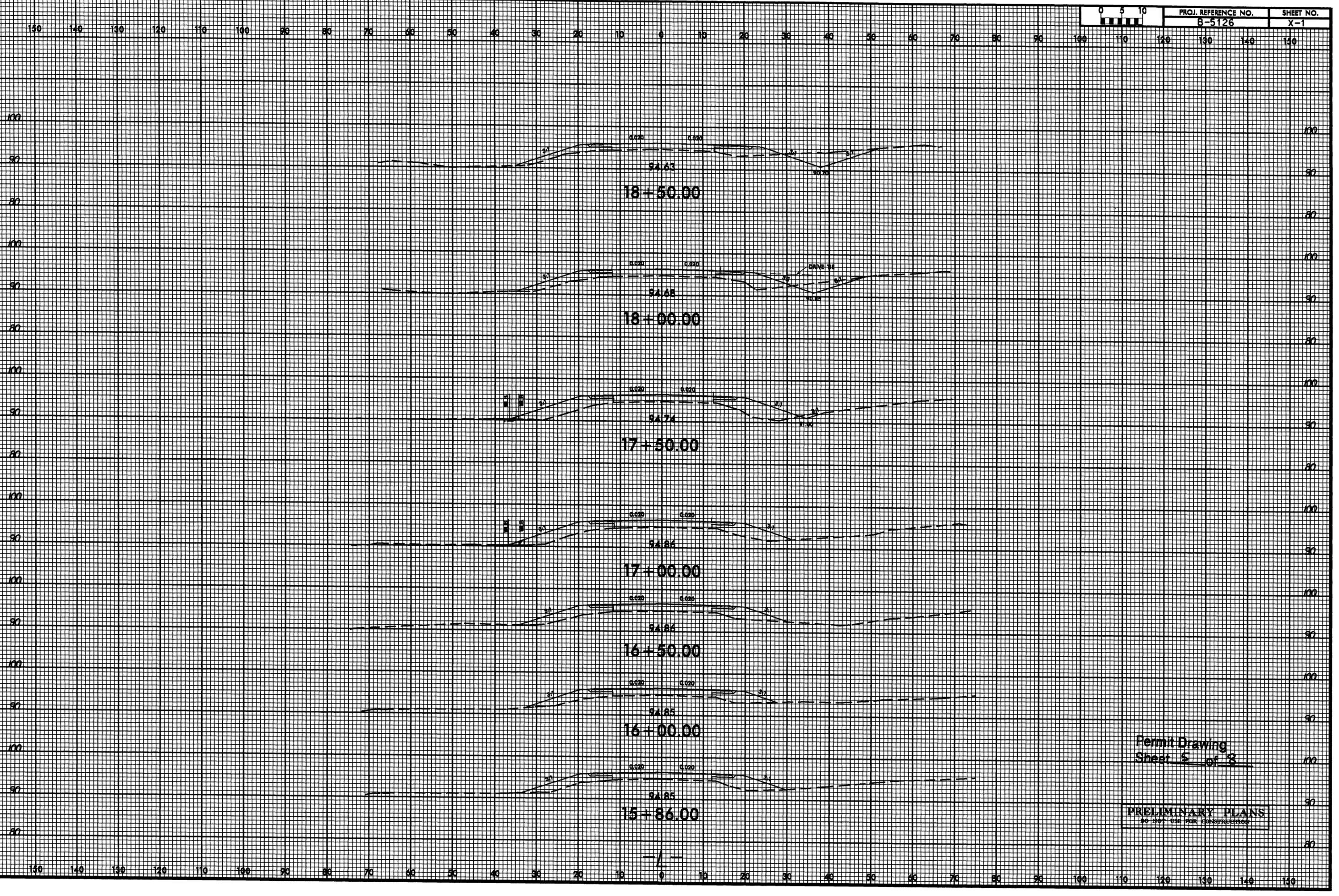
19+00 20+00 21+00 22+00 23+00

PROFILE

NCDOT
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 PROJECT: 42283.1.1 (B-5126)
 BRIDGE 65 OVER A
 SWAMP ON CONTENTNEA CK
 OVERFLOW / WIGGINS MILL RESERVOIR
 ON SR1163 (DOWNING RD.) IN WILSON

SHEET OF 08 / 17 / 12

8/23/93

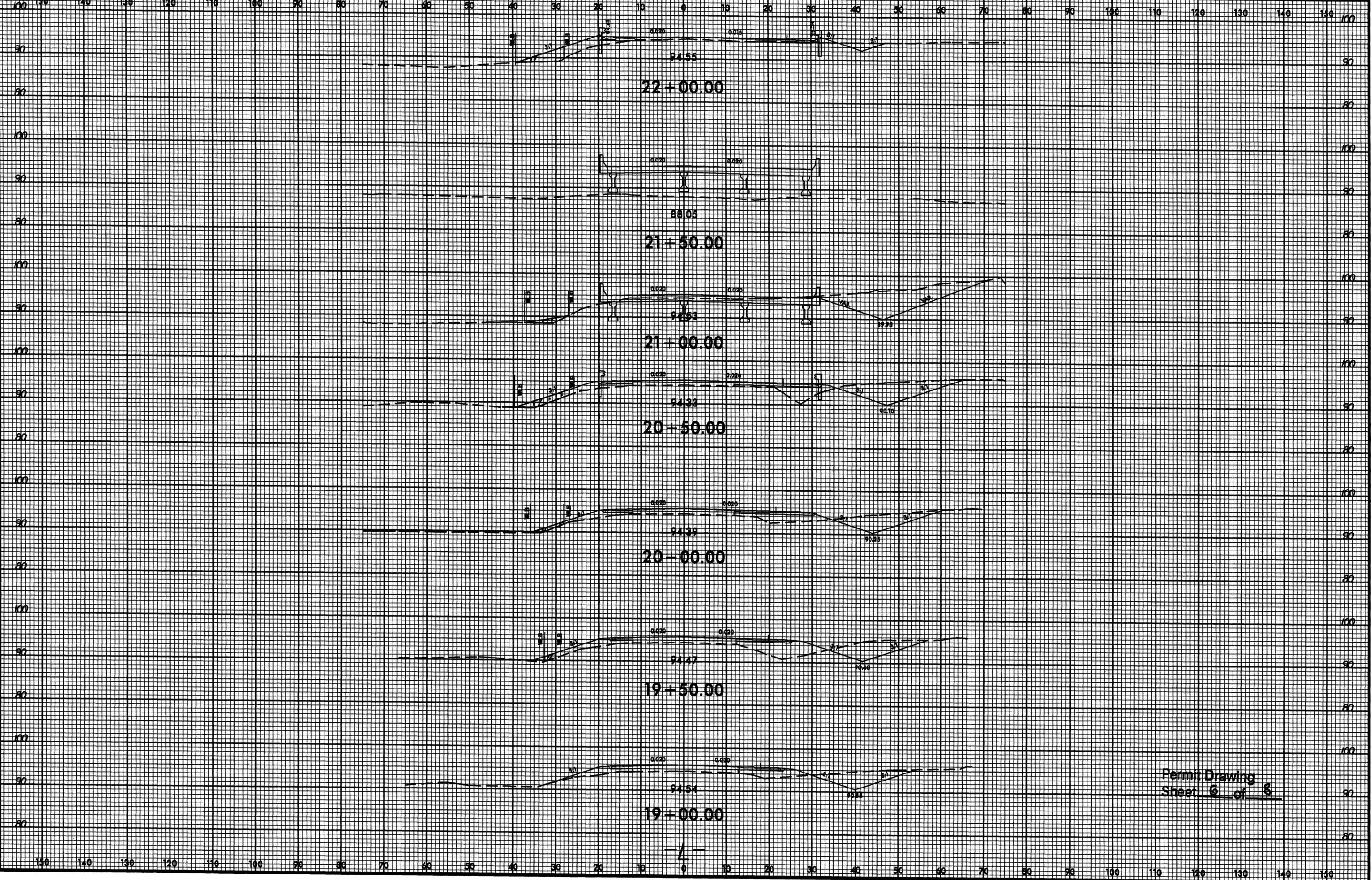


Permit Drawing
Sheet 5 of 8

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SYTIME
DUNN
SUS
SNAME

8/23/99



Permit Drawing
Sheet 6 of 8

SYSTEMS
SERVICES

PROPERTY OWNERS

<u>Site</u>	<u>Last Name</u>	<u>First Name</u>	<u>Address</u>	<u>City/Town</u>	<u>State</u>	<u>Zip Code</u>
1	CITY OF WILSON		PO Box 10	Wilson	NC	27894-0010

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY
WBS - 42283.1.1 (B-5126)

SHEET 8/17/2012

WETLAND PERMIT IMPACT SUMMARY

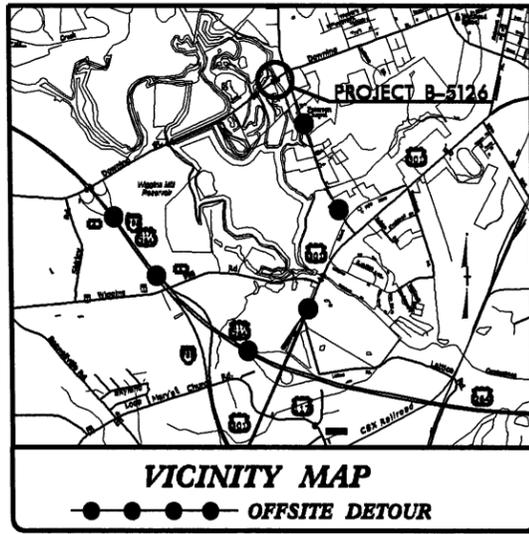
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS							
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)		
1	21+36 -L-	BRIDGE	0.06				0.08	<0.01						
TOTALS:			0.06				0.08	<0.01						

There will be 0.01 acre of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 WBS - 42283.1.1 (B-5126)
 SHEET 8/17/2012

08/08/99
 28-NOV-2012 14:16
 C:\NORTH-CAROLINA\PROJECTS\NEU\B-5126_UT_NEU\sh.dgn
 \$\$\$USERNAME\$\$\$

TIP PROJECT: B-5126



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

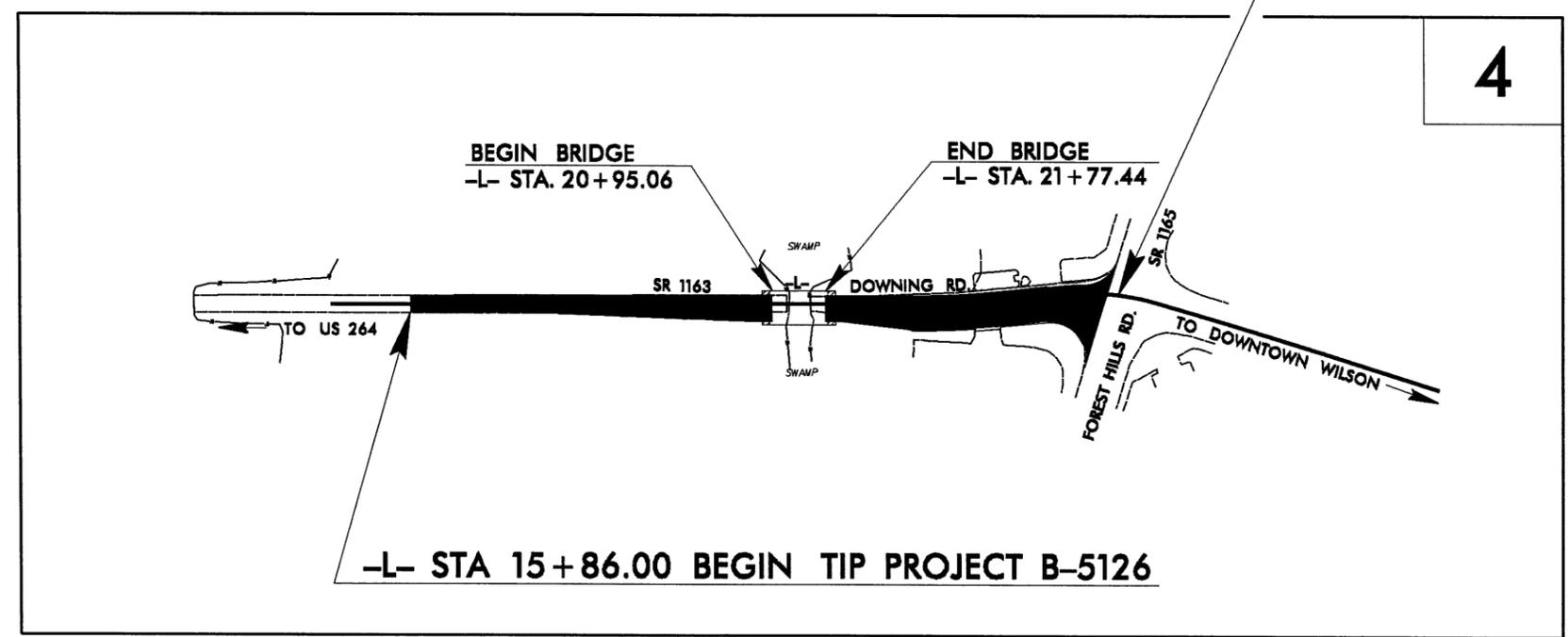
**NEU UTILITY
RELOCATION PLANS
WILSON COUNTY**

LOCATION: BRIDGE 65 OVER SWAMP ON SR 1163 DOWNING RD.

TYPE OF WORK: RELOCATE POWER AND TELEPHONE POLE LINES
 -L- STA 25+75.00 END TIP PROJECT B-5126

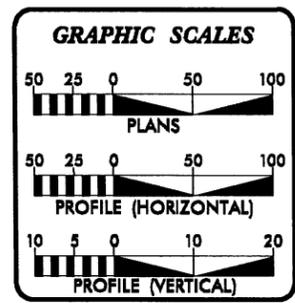
T.I.P. NO.	SHEET NO.
B-5126	UO-1

NEU UTILITY
RELOCATION PLANS



Utility Permit Drawing
Sheet 1 of 3

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT

(1) CITY OF WILSON POWER
(2) CENTURYLINK TELEPHONE

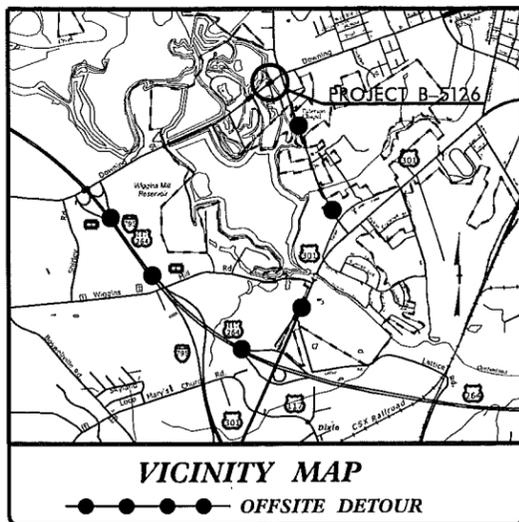
PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING**

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 707-6690
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Kelvin Martin UTILITIES PROJECT DESIGNER

09/08/99

See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

WILSON COUNTY

**LOCATION: BRIDGE 65 OVER A SWAMP OF CONTENTNEA CK
 OVERFLOW/WIGGINS MILL RESERVOIR ON SR 1163
 (DOWNING ROAD) IN WILSON**

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

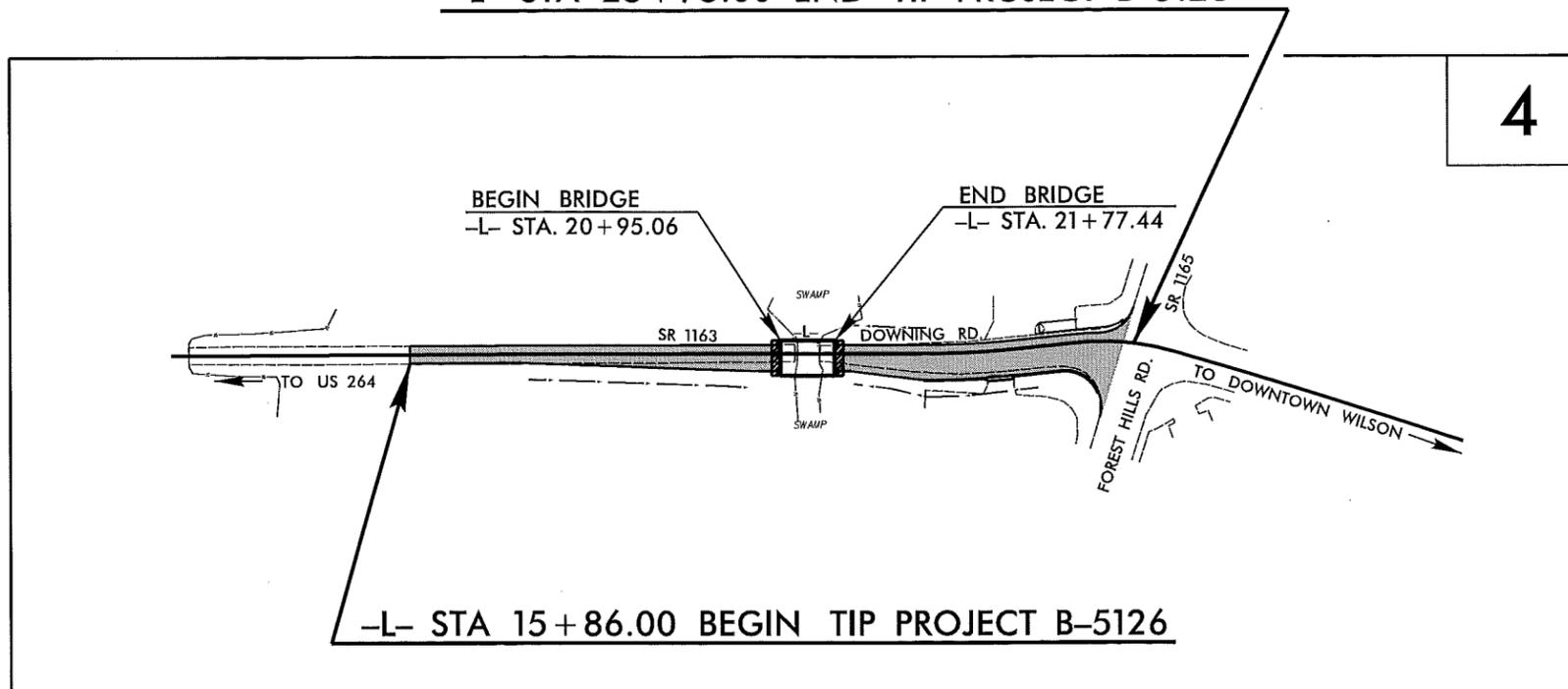
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5126	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42283.1.1	BRSTP-1163(8)	PE	
42283.2.1	BRSTP-1163(8)	R/W & UTIL	



TIP PROJECT: B-5126

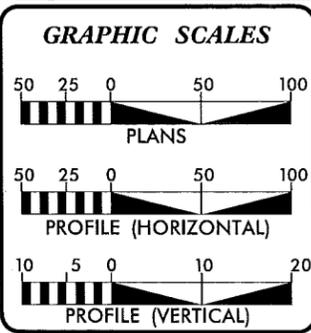
CONTRACT: C203157

-L- STA 25+75.00 END TIP PROJECT B-5126



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
 THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF WILSON

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2012 =	8,774
ADT 2035 =	14,700
DHV =	14 %
D =	80 %
T =	3 % *
V =	60 MPH
* TTST =	1% DUAL = 2%
FUNC CLASS =	LOCAL
SUB REGIONAL TIER	

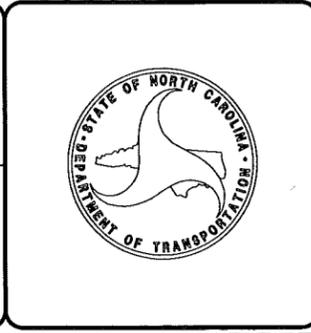
PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-5126 =	0.171 MILES
LENGTH OF STRUCTURE TIP PROJECT B-5126 =	0.016 MILES
TOTAL LENGTH OF STATE PROJECT B-5126 =	0.187 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
 1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: JUNE 15, 2012	JAMES A. SPEER, PE PROJECT ENGINEER
LETTING DATE: JUNE 18, 2013	ALLISON K. WHITE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER	
SIGNATURE: _____ P.E.	
ROADWAY DESIGN ENGINEER	
SIGNATURE: _____ P.E.	



17-SEP-2012 18:17
 R:\Roadway\Projects\B-5126_Rdy_tsh.dgn
 \$\$\$USERNAME\$\$\$

04/16/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙ EP
Property Corner	-----
Property Monument	⊠ ECU
Parcel/Sequence Number	Ⓜ 123
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	⊠
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Known Soil Contamination: Area or Site	☠
Potential Soil Contamination: Area or Site	☠

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	⊠
Jurisdictional Stream	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 R/W Marker	-----
Proposed Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	⊠
Proposed Control of Access	⊠
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage /Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed Aerial Utility Easement	AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	Ⓞ CR
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	-----

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	⊕
Existing Joint Use Pole	●
Proposed Joint Use Pole	⊕
Power Manhole	Ⓞ
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	⊠
H-Frame Pole	●
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	⊕
Telephone Manhole	Ⓞ
Telephone Booth	⊠
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	⊠
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	⊕
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line	UTIL
U/G Tank; Water, Gas, Oil	⊠
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	⊠
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET B5126

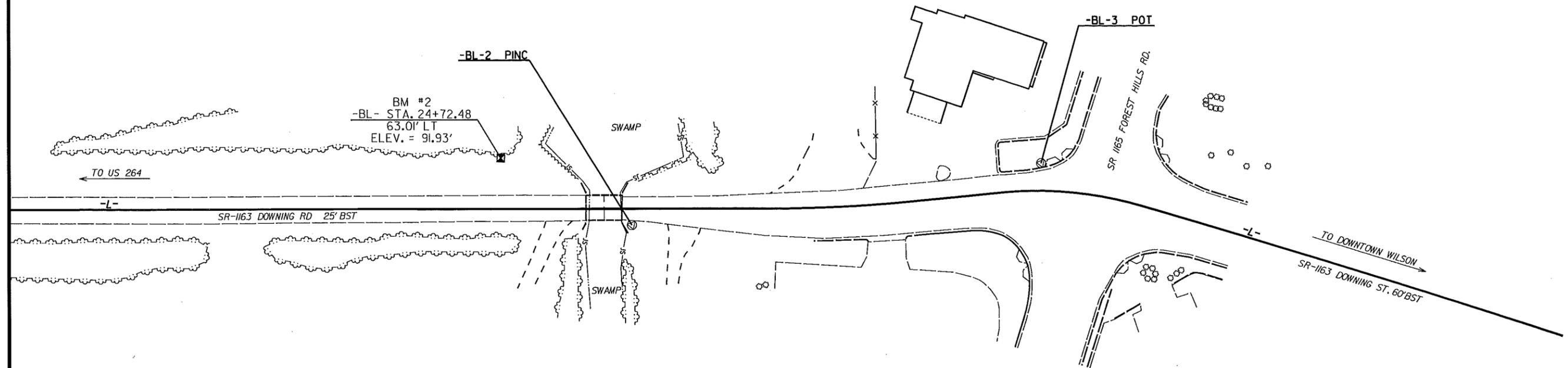
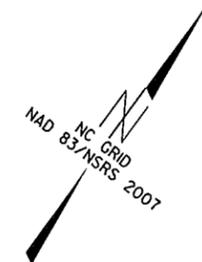
PROJECT REFERENCE NO.	SHEET NO.
B-5126	1-C
Location and Surveys	

BASELINE DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
10	GPS B5126-1		712627.6120	2309187.3540	93.87	OUTSIDE PROJECT LIMITS	
20	GPS B5126-2		713189.8860	2309934.5890	93.75	10+02.83	16.25 LT
1	BL-1		713338.7520	2310180.6970	94.48	12+88.99	13.03 RT
2	BL-2		713858.1680	2310883.2600	93.89	21+62.76	15.23 RT
3	BL-3		714134.3110	2311160.0090	94.77	25+49.77	25.95 LT

BENCHMARK DATA

.....	
100	ELEVATION = 93.72
N 713456	E 2310371
L STATION 15+12.00	33 RIGHT
BM#1 RR SPIKE IN BASE OF 20' PINE	
.....	
101	ELEVATION = 91.93
N 713835	E 2310746
L STATION 20+39.00	48 LEFT
BM#2 RR SPIKE IN BASE OF 24' MAPLE	
.....	



NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.ORG/DOH/RECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/DOH/RECONSTRUCT/HIGHWAY/LOCATION/PROJECT/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 B5126_LS_CONTROL_110914.TXT
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED 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 USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B5126-2" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 713189.886(ft) EASTING: 2309934.589(ft) ELEVATION: 93.753(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99990479 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B5126-2" TO -L- STATION 10+00.00 IS S 27°17'31.6" E 16.49'

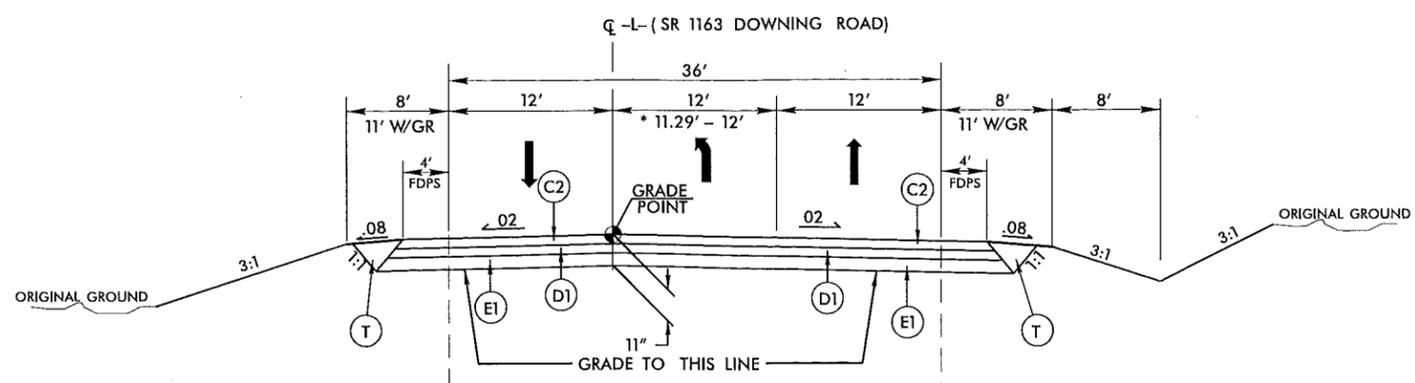
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

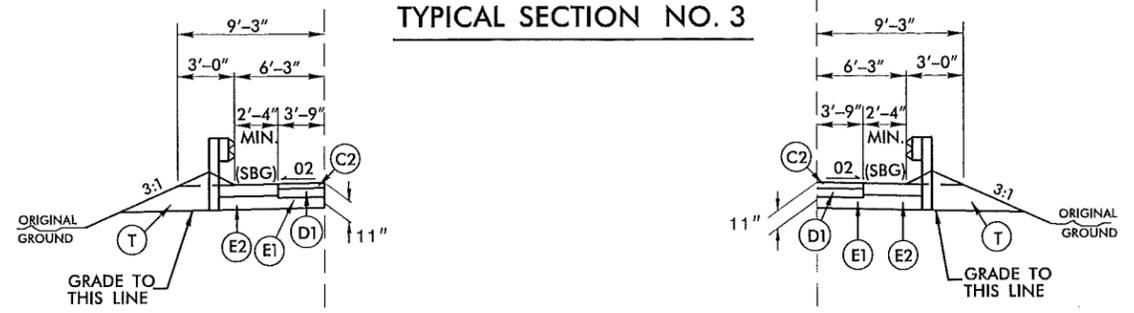
6/2/99

PAVEMENT SCHEDULE	
C1	1.5" S9.5B
C2	3" S9.5B
C3	VAR. S9.5B
D1	4" I19.0B
D2	VAR. I19.0B
E1	5.5" B25.0B
E2	VAR. B25.0B
R	2'-6" C&G
T	EARTH MATERIAL.
U	EXIST. PAVEMENT.
W	WEDGING

PROJECT REFERENCE NO. B-5126	SHEET NO. 2A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



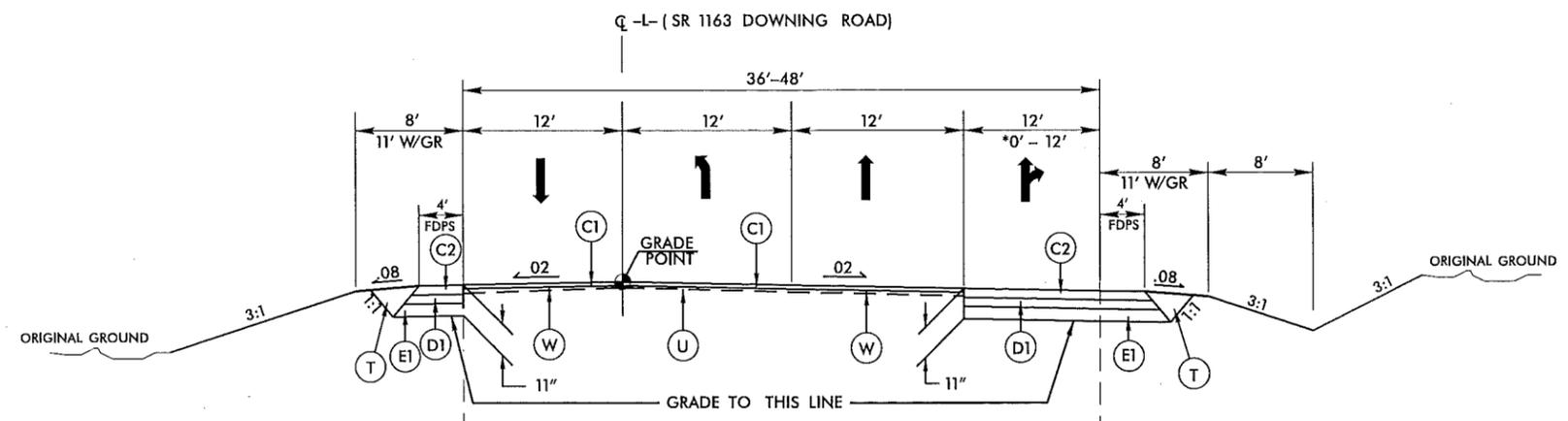
TYPICAL SECTION NO. 3



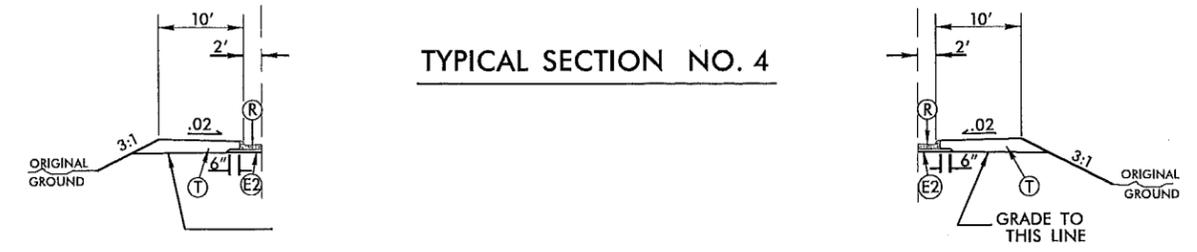
USE TYPICAL SECTION NO. 3 AS FOLLOWS:
 *-L- STA. 20+50.00 TO STA. 20+69.97
 -L- STA. 20+69.97 TO STA. 20+95.06 (BEGIN BRIDGE)
 -L- STA. 21+77.44 (END BRIDGE) TO STA. 22+27.00

NOTE: SEE PLAN SHEET FOR PAVED SHOULDER LIMITS AT GUARDRAIL LOCATIONS

NOTE:
 INSTALL SHOULDER BERM GUTTER (SBG) AS FOLLOWS.
 -L- STA. 20+72.00 TO STA. 20+95.06 (BEGIN BRIDGE) LT & RT
 -L- STA. 21+77.44 (END BRIDGE) TO STA. 22+05.00 RT
 -L- STA. 21+77.44 (END BRIDGE) TO STA. 22+55.00 LT
 SEE ROADWAY STD. DWG. NO. 846.03



TYPICAL SECTION NO. 4



USE TYPICAL SECTION NO. 4 AS FOLLOWS:
 *-L- STA. 22+27.00 TO STA. 22+96.00
 -L- STA. 22+96.00 TO STA. 25+75.00

NOTE: SEE PLAN SHEET FOR PAVED SHOULDER LIMITS AT GUARDRAIL LOCATIONS

NOTE:
 INSTALL CONCRETE CURB AND GUTTER (C&G) AS FOLLOWS.
 -L- STA. 25+14.00 TO STA. 25+71.11 LT
 -L- STA. 22+96.00 TO STA. 25+35.96 RT

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 R:\PROJECTS\B-5126_Rdy_tup.dgn
 \$\$\$SYSTRAN\$\$\$

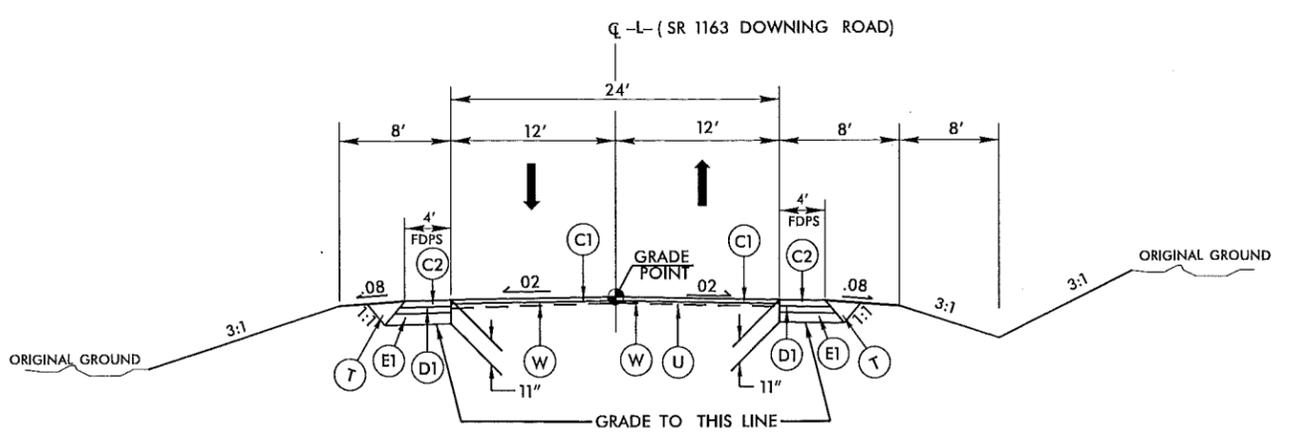
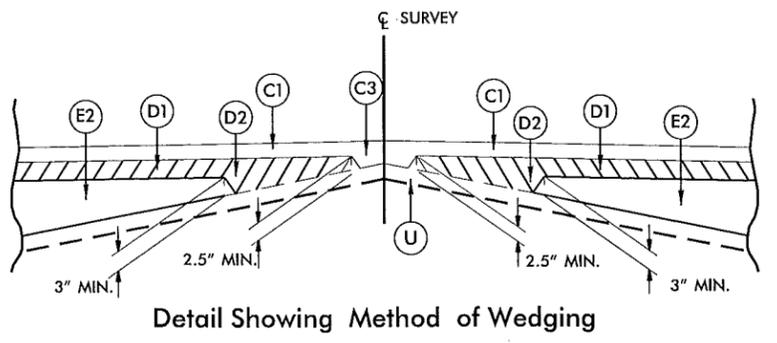
6/2/99

PROJECT REFERENCE NO. B-5126	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

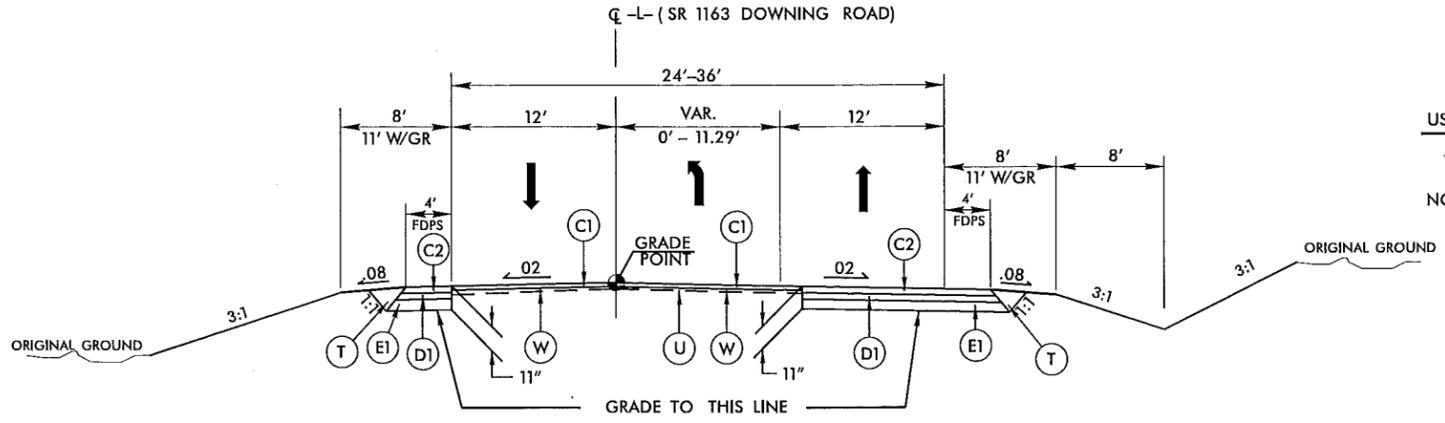
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.
R	2'-6" CONCRETE CURB AND GUTTER
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL NO. 1)

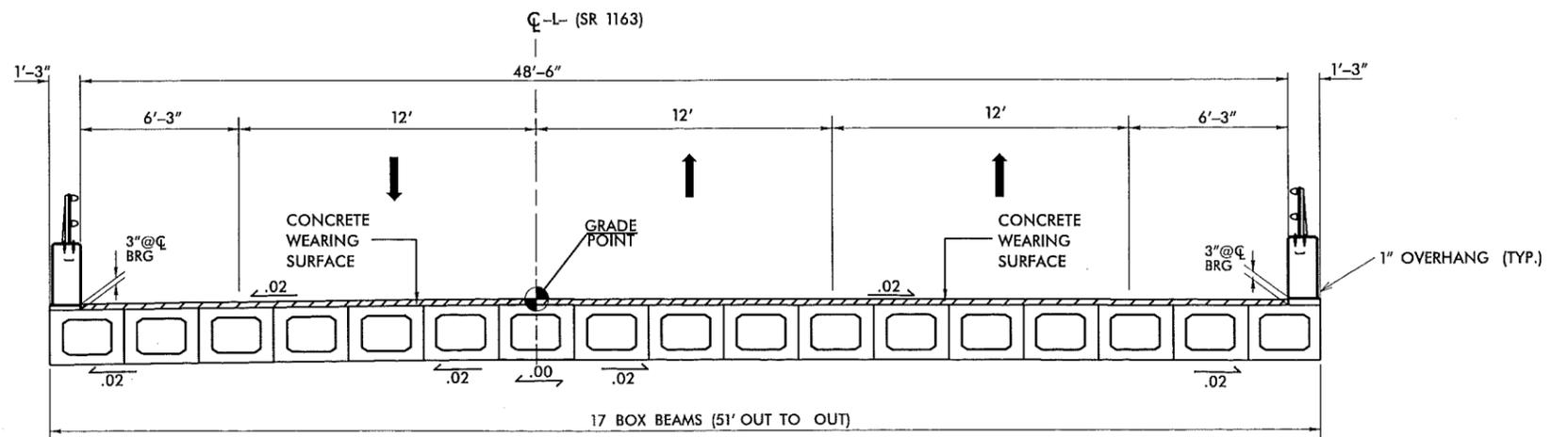
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



USE TYPICAL SECTION NO. 1 AS FOLLOWS:
-L- STA. 15+86.00 TO STA. 17+39.97

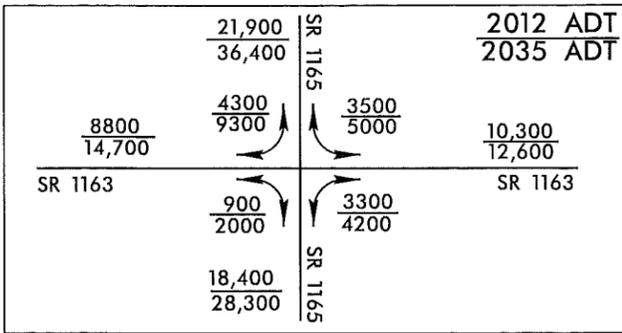


USE TYPICAL SECTION NO. 2 AS FOLLOWS:
-L- STA. 17+39.97 TO STA. 20+50.00
NOTE: SEE PLAN SHEET FOR PAVED SHOULDER LIMITS AT GUARDRAIL LOCATIONS



BEGIN BRIDGE -L- STA. 20+95.06 TO END BRIDGE -L- STA. 21+77.44

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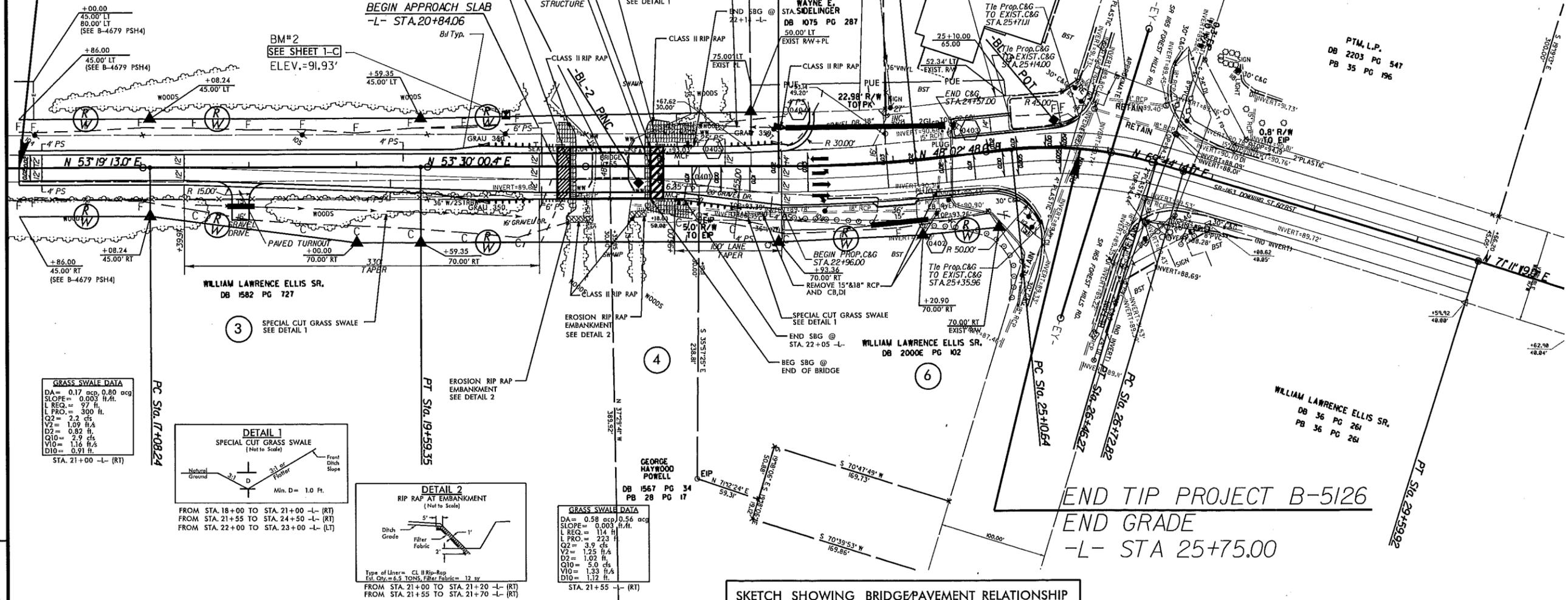


BEGIN TIP PROJECT B-5126
END TIP PROJECT B-4679
-L- STA. 15+86.00

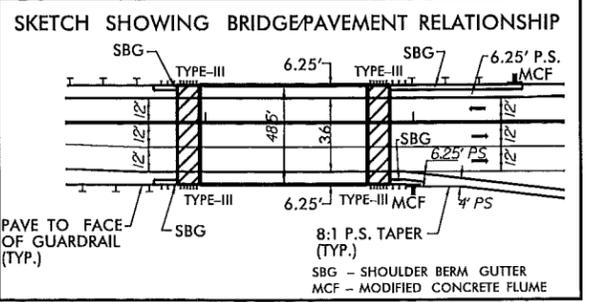
END APPROACH SLAB
-L- STA. 21+88.44
END BRIDGE
-L- STA. 21+77.44

BEGIN BRIDGE
-L- STA. 20+95.06

BEGIN APPROACH SLAB
-L- STA. 20+84.06



PI Sta 18+33.80 Δ = 0° 10' 47.4" (RT) D = 0° 04' 17.8" L = 251.1' T = 125.56' R = 80,000.00' SE = NC	PI Sta 23+57.18 Δ = 5° 27' 12.4" (LT) D = 4° 16' 32.9" L = 127.54' T = 63.82' R = 1,340.00' SE = 03 RO = SEE PLAN	PI Sta 25+79.28 Δ = 2° 42' 23.3" (RT) D = 16° 00' 15.9" L = 135.63' T = 68.64' R = 358.00'	PI Sta 28+16.38 Δ = 1° 26' 07.3" (RT) D = 0° 30' 00.0" L = 287.10' T = 143.56' R = 11,459.16'
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SEE SHEET 5 FOR PROFILE

REVISIONS
 wad 7/25/12
 Parcel 5 - Extended Proposed PUE to exist. PL

8/17/09
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5/14/99

BM #2 RR SPIKE IN
BASE OF 24" MAPLE
-L- STA. 20+38.76
47.83' LT
ELEV. = 91.93'



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 18,700 CFS
 DESIGN FREQUENCY = 50 YRS
 DESIGN HW ELEVATION = 98.2 FT
 BASE DISCHARGE = 22,100 CFS
 BASE FREQUENCY = 100 YRS
 BASE HW ELEVATION = 99.5 FT
 OVERTOPPING DISCHARGE = 5,500 CFS
 OVERTOPPING FREQUENCY = <10 YRS
 OVERTOPPING ELEVATION = 94.4 FT

DATE OF SURVEY = 09-20-2011
 W.S. ELEVATION AT DATE OF SURVEY = 89 +/- FT

SEE SHEET 4 FOR PLAN VIEW

BEGIN GRADE PROJECT B-5126
END GRADE PROJECT B-4679
-L- STA. 15+86.00
ELEV. = 96.41'

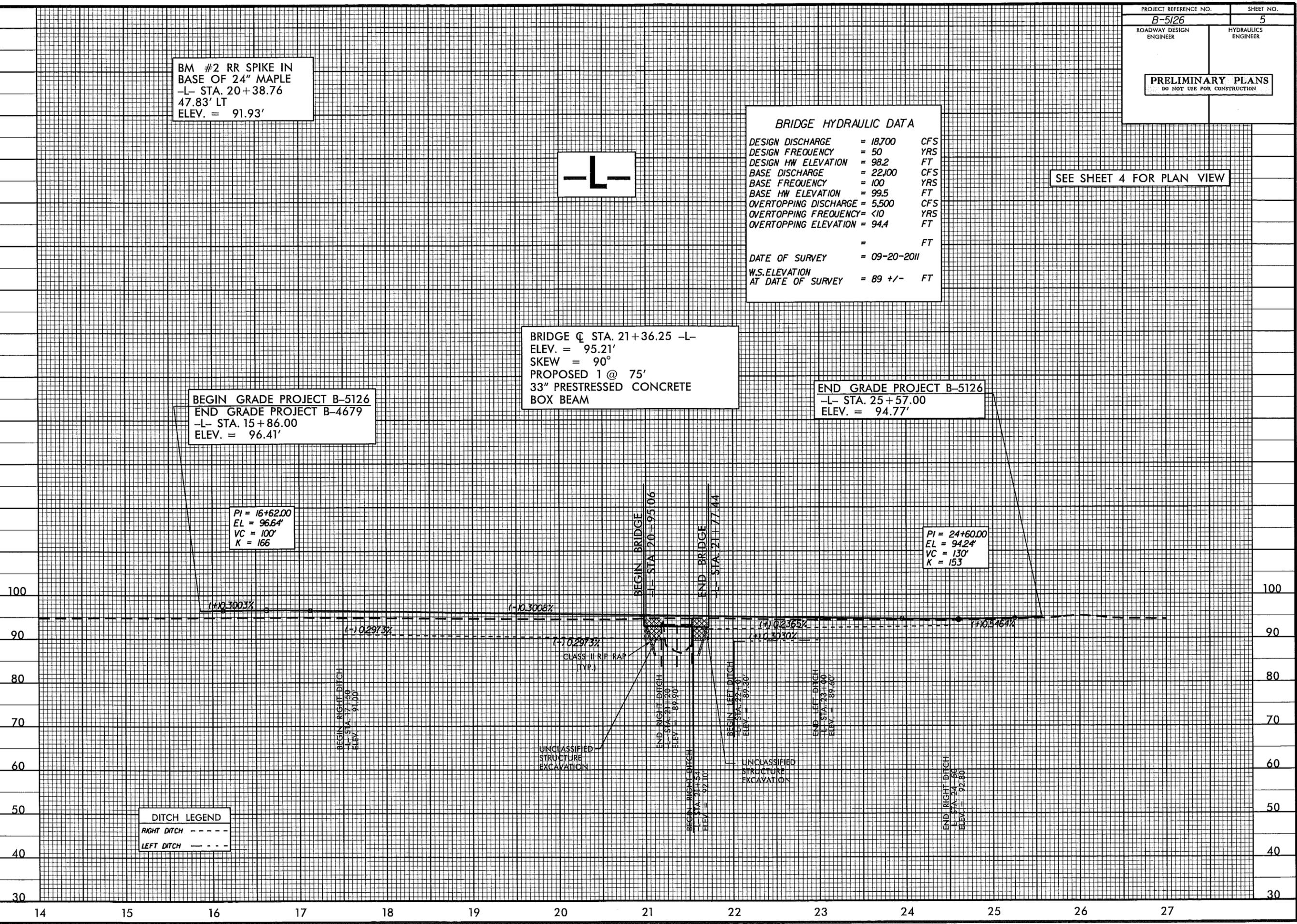
BRIDGE C STA. 21+36.25 -L-
ELEV. = 95.21'
SKEW = 90°
PROPOSED 1 @ 75'
33" PRESTRESSED CONCRETE
BOX BEAM

END GRADE PROJECT B-5126
-L- STA. 25+57.00
ELEV. = 94.77'

PI = 16+62.00
EL = 96.64'
VC = 100'
K = 166

PI = 24+60.00
EL = 94.24'
VC = 130'
K = 153

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DITCH LEGEND
 RIGHT DITCH - - - - -
 LEFT DITCH - - - - -

UNCLASSIFIED
STRUCTURE
EXCAVATION

CLASS II RIF RAP
(TYP.)

BEGIN RIGHT DITCH
-L- STA. 17+90
ELEV. = 91.00'

END RIGHT DITCH
-L- STA. 21+20
ELEV. = 89.90'

BEGIN LEFT DITCH
-L- STA. 22+40
ELEV. = 89.50'

END LEFT DITCH
-L- STA. 23+00
ELEV. = 89.20'

END RIGHT DITCH
-L- STA. 24+80
ELEV. = 92.80'

BEGIN BRIDGE
-L- STA. 20+95.06

END BRIDGE
-L- STA. 21+77.44

(+)-0.3003%

(-)-0.3008%

(-)-0.2913%

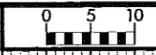
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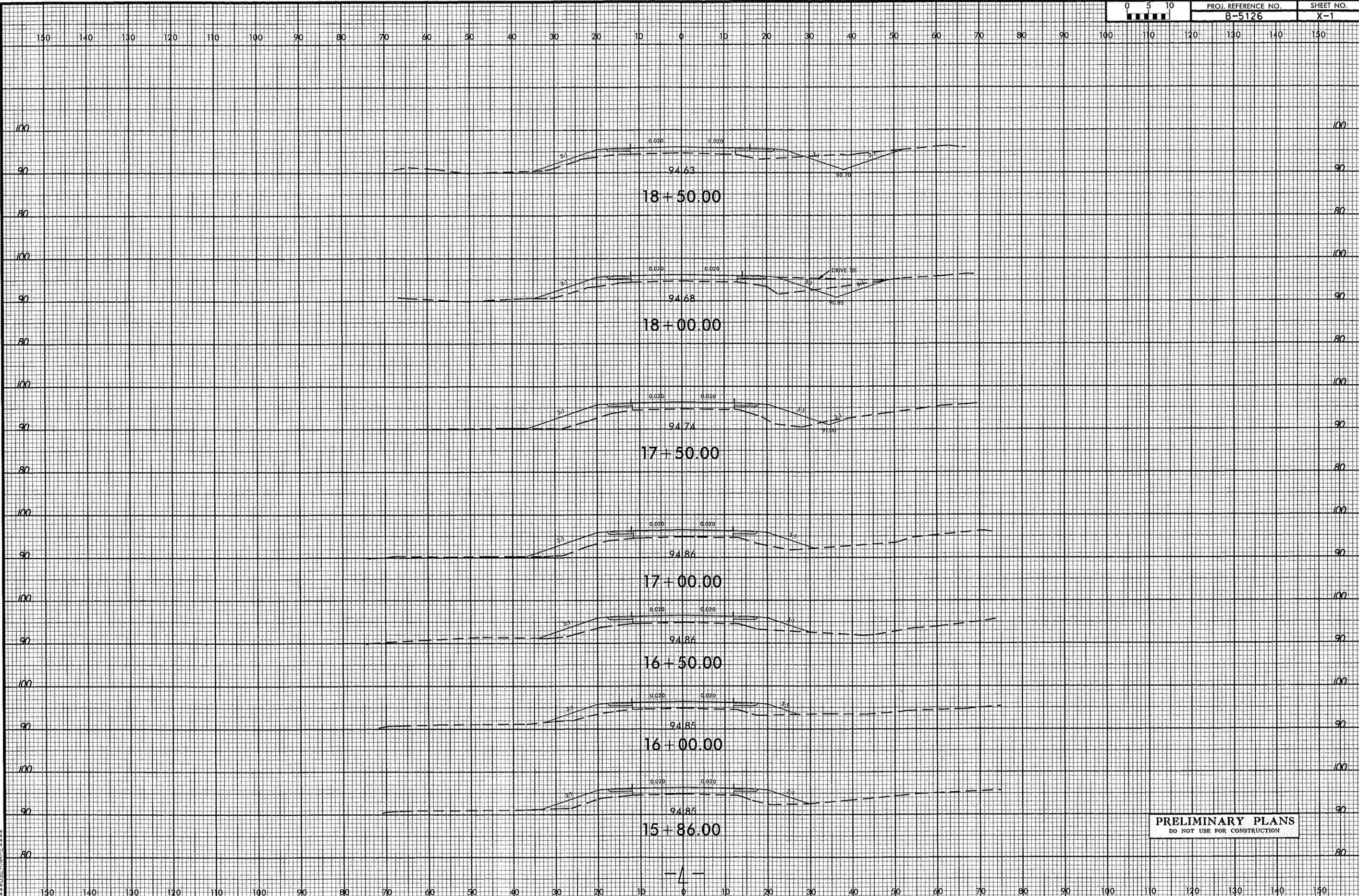
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(+)-0.5464%

8/23/99



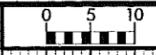
PROJ. REFERENCE NO.
B-5126
SHEET NO.
X-1



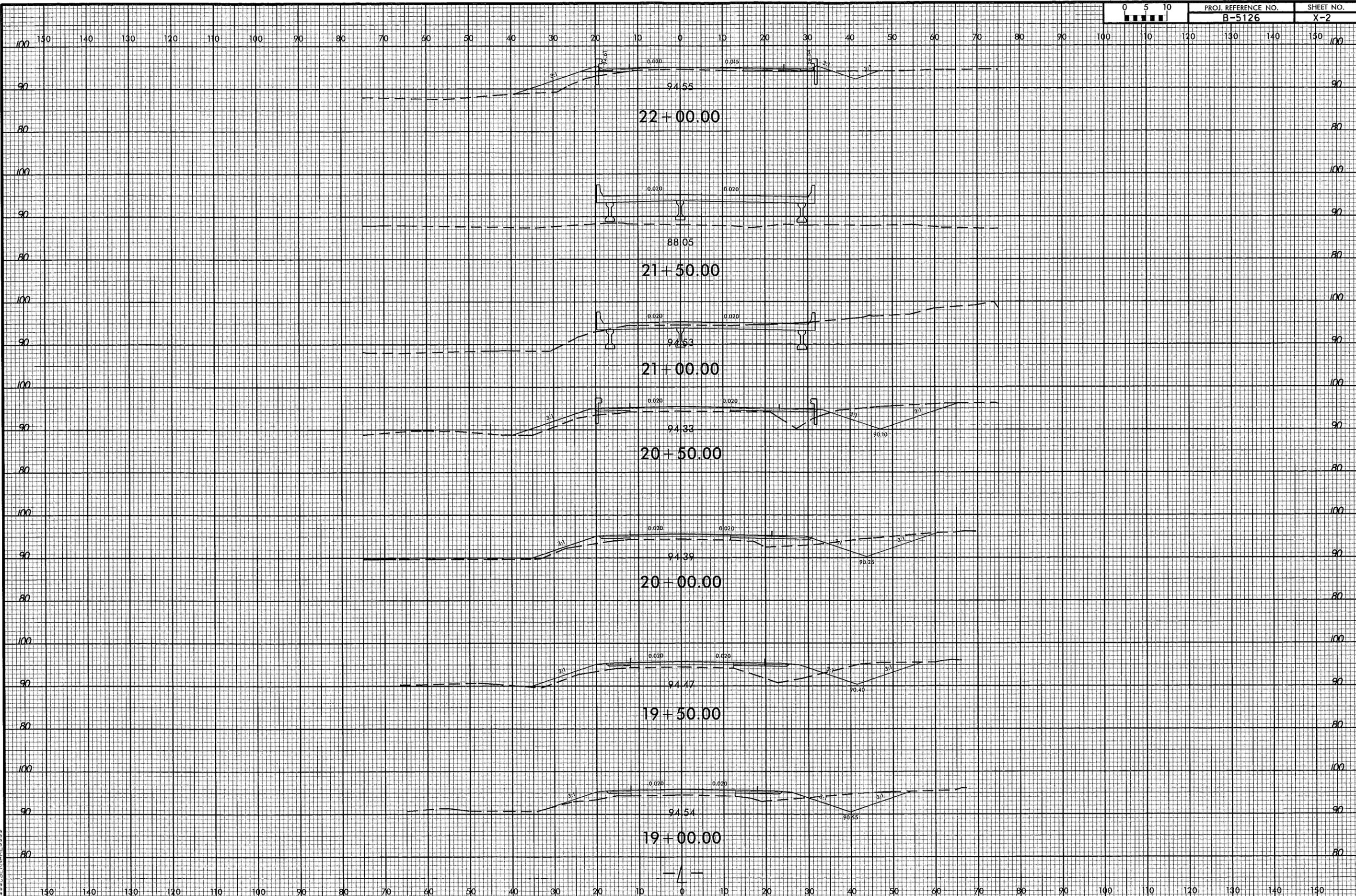
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

8/23/99



PROJ. REFERENCE NO. B-5126 SHEET NO. X-2

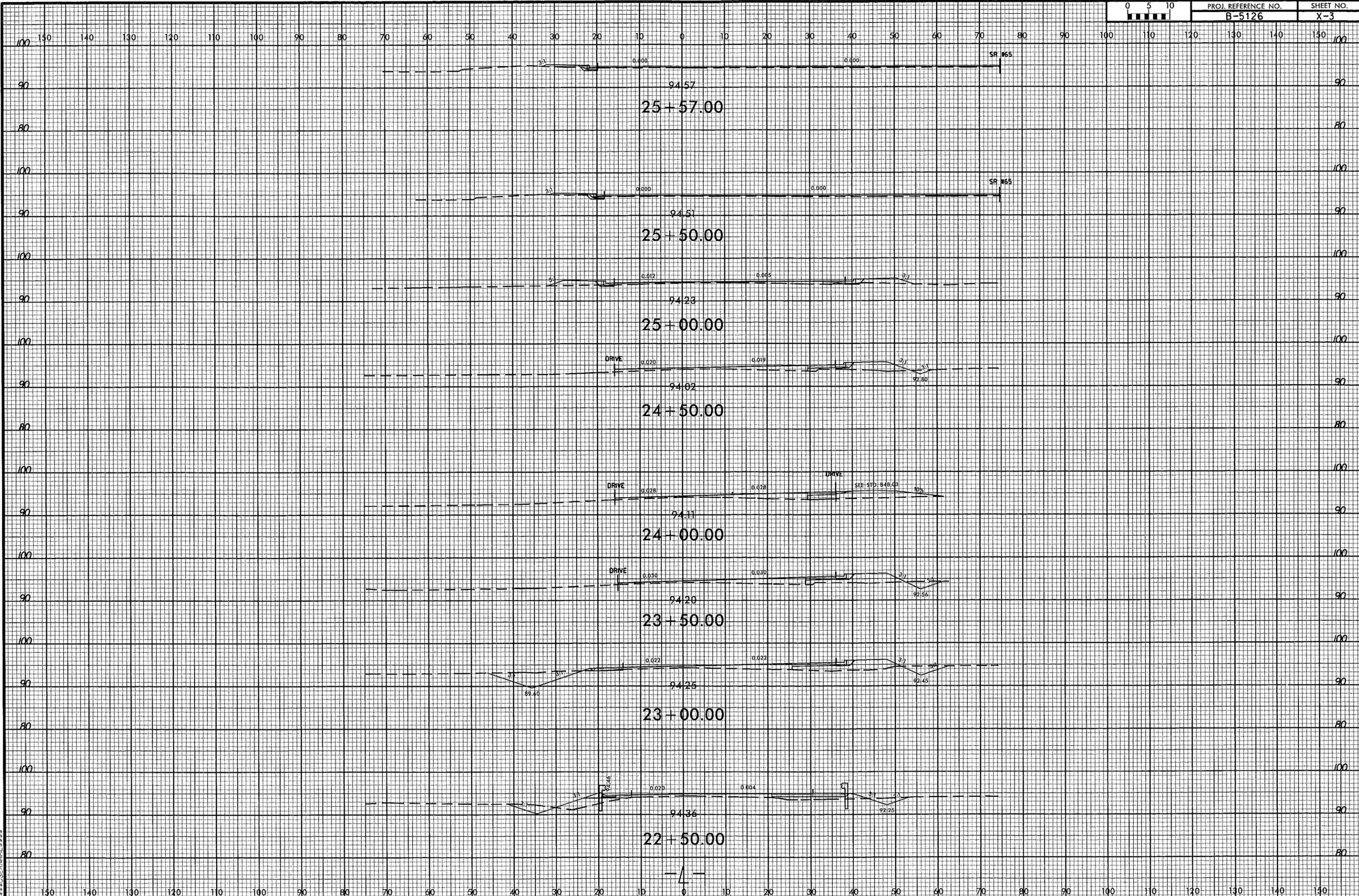


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B/23/99



PROJ. REFERENCE NO. B-5126 SHEET NO. X-3



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