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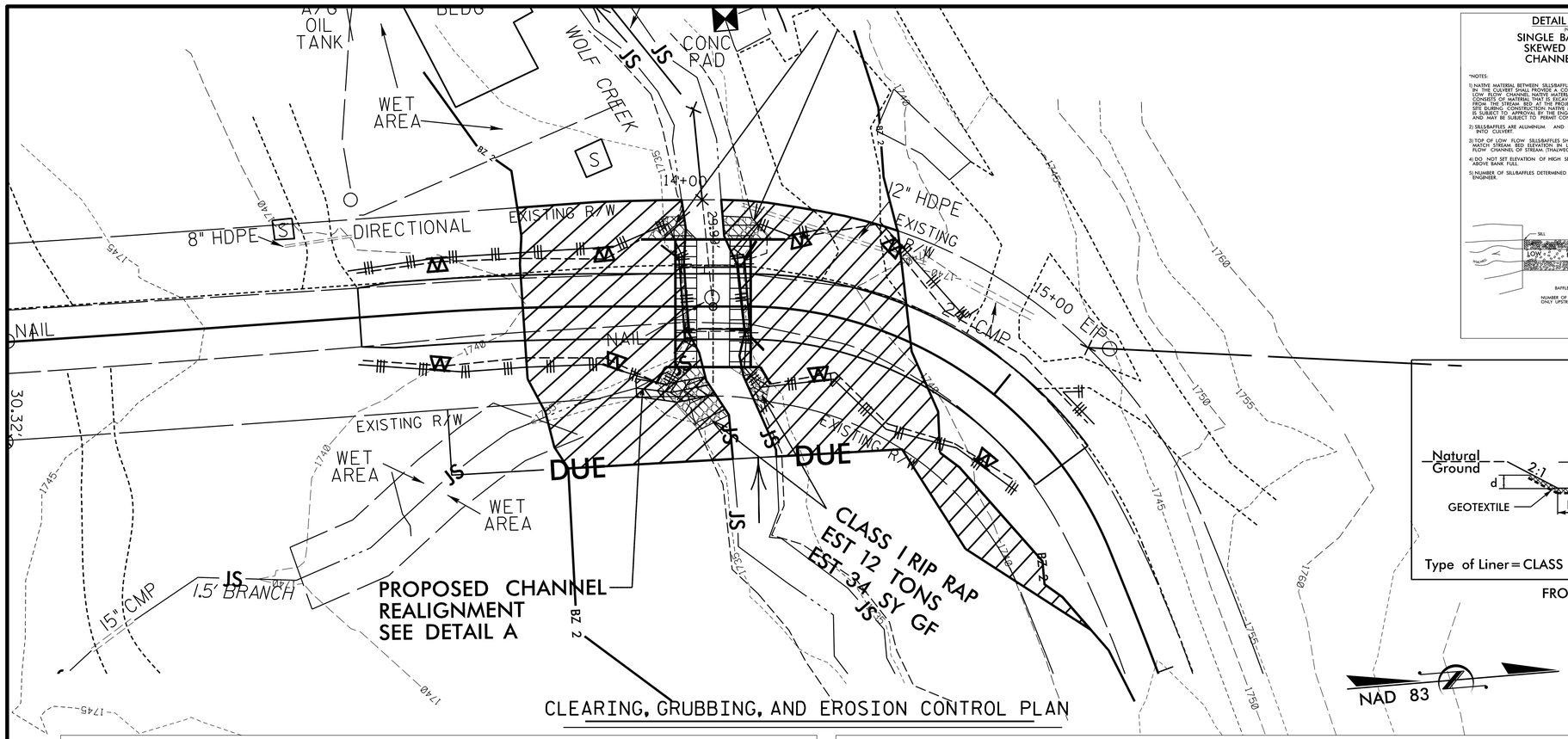


CLEARING, GRUBBING, AND EROSION CONTROL PLAN

DETAIL B SF-190065

(NOT TO SCALE)

SINGLE BARREL CULVERT
SKEWED LOW FLOW
CHANNEL AND SILLS

*NOTES:

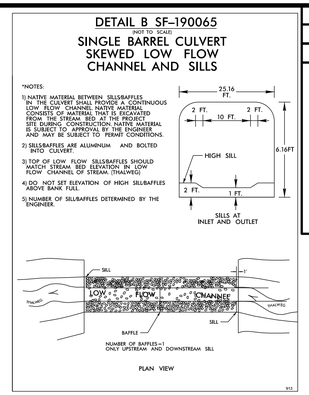
1) NATIVE MATERIAL BETWEEN SILLS&BAFFLES IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL.NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE CULVERT AND USED TO BACKFILL SITU DURING CONSTRUCTION.NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

2) SILLS&BAFFLES ARE ALUMINUM AND BOLTED INTO CULVERT.

3) TOP OF LOW FLOW SILLS&BAFFLES SHOULD MATCH STREAM BED ELEVATION IN LOW FLOW CHANNEL OF STREAM (THALWEG)

4) DO NOT SET ELEVATION OF HIGH SILL&BAFFLES ABOVE BANK FULL.

5) NUMBER OF SILL&BAFFLES DETERMINED BY THE ENGINEER.



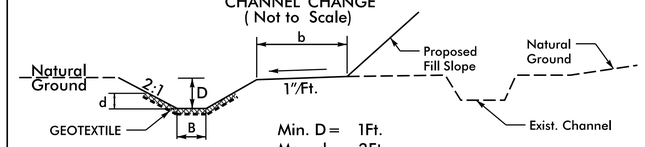
PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.85	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

10 0 20

SCALE: 1" = 20'

DETAIL A

CHANNEL CHANGE
(Not to Scale)



Min. D = 1Ft.
Max. d = 2Ft.
B = 0Ft.
b = 0Ft.

Type of Liner = CLASS B RIP RAP

FROM STA. 13 + 84.00 TO STA. 14 + 07.00

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

DISTURBED AREA 12,000 SF

BRIDGE REMOVAL AND CULVERT CONSTRUCTION SHALL BE PER REQUIREMENTS IN THE NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL

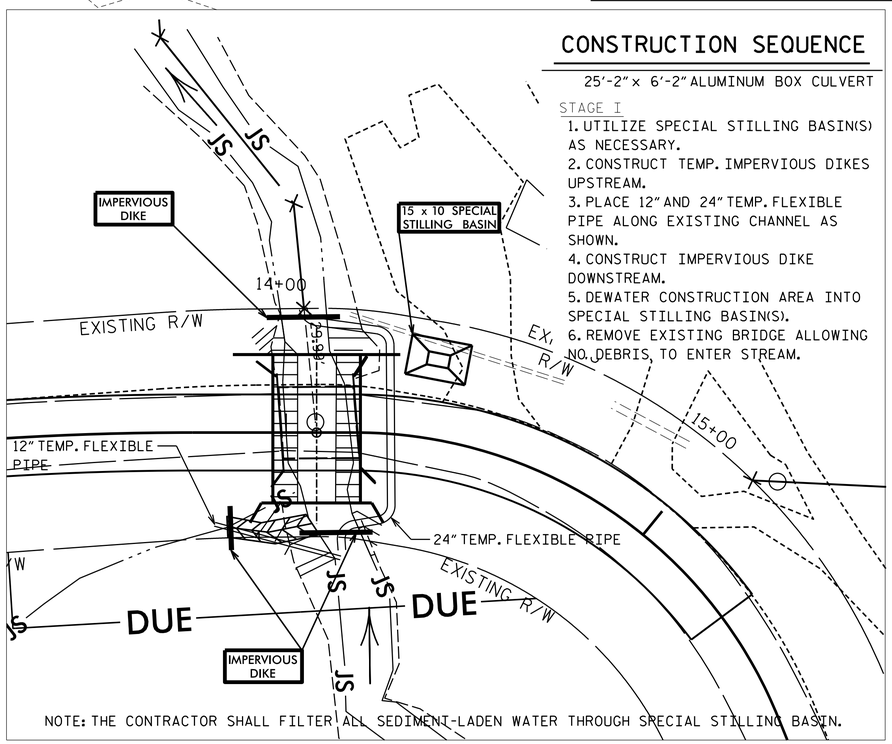
ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

CONSTRUCTION SEQUENCE

25'-2" x 6'-2" ALUMINUM BOX CULVERT

STAGE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NECESSARY.
2. CONSTRUCT TEMP. IMPERVIOUS DIKES UPSTREAM.
3. PLACE 12" AND 24" TEMP. FLEXIBLE PIPE ALONG EXISTING CHANNEL AS SHOWN.
4. CONSTRUCT IMPERVIOUS DIKE DOWNSTREAM.
5. DEWATER CONSTRUCTION AREA INTO SPECIAL STILLING BASIN(S).
6. REMOVE EXISTING BRIDGE ALLOWING NO DEBRIS TO ENTER STREAM.



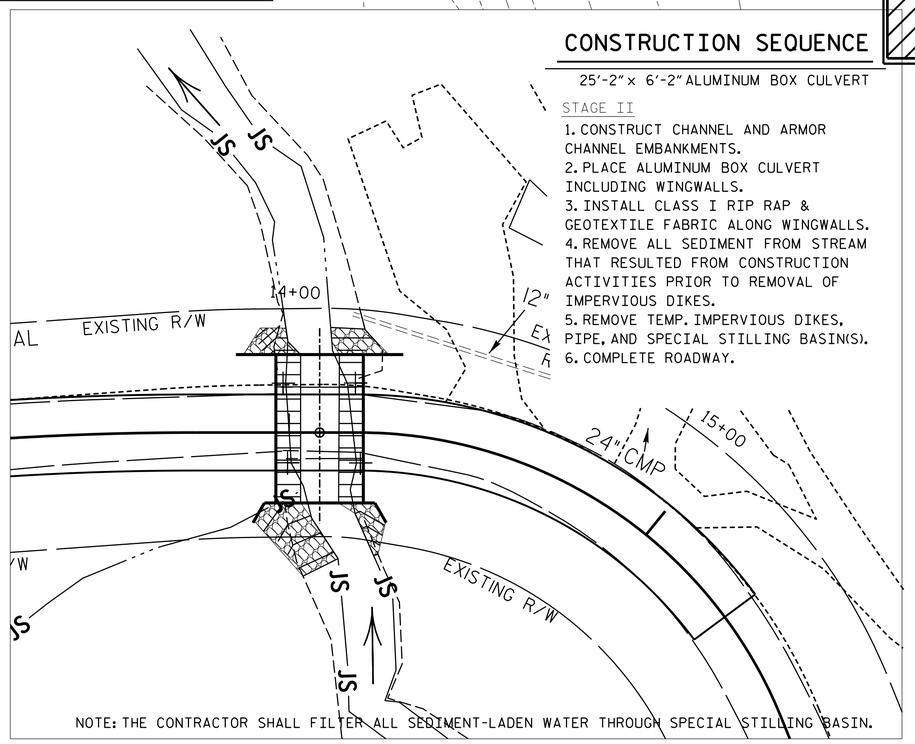
NOTE: THE CONTRACTOR SHALL FILTER ALL SEDIMENT-LADEN WATER THROUGH SPECIAL STILLING BASIN.

CONSTRUCTION SEQUENCE

25'-2" x 6'-2" ALUMINUM BOX CULVERT

STAGE II

1. CONSTRUCT CHANNEL AND ARMOR CHANNEL EMBANKMENTS.
2. PLACE ALUMINUM BOX CULVERT INCLUDING WINGWALLS.
3. INSTALL CLASS I RIP RAP & GEOTEXTILE FABRIC ALONG WINGWALLS.
4. REMOVE ALL SEDIMENT FROM STREAM THAT RESULTED FROM CONSTRUCTION ACTIVITIES PRIOR TO REMOVAL OF IMPERVIOUS DIKES.
5. REMOVE TEMP. IMPERVIOUS DIKES, PIPE, AND SPECIAL STILLING BASIN(S).
6. COMPLETE ROADWAY.



NOTE: THE CONTRACTOR SHALL FILTER ALL SEDIMENT-LADEN WATER THROUGH SPECIAL STILLING BASIN.

1998 20 2018
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A&O PROJECT NO. 2013.060

PROJECT NO. 17BP.14.R.85
CHEROKEE COUNTY
STATION: 14+08.00 -L-
SHEET _ OF _

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

CULVERT NO. 190065
ON SR 1101 OVER
WOLF CREEK

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

STR. NO. 190065