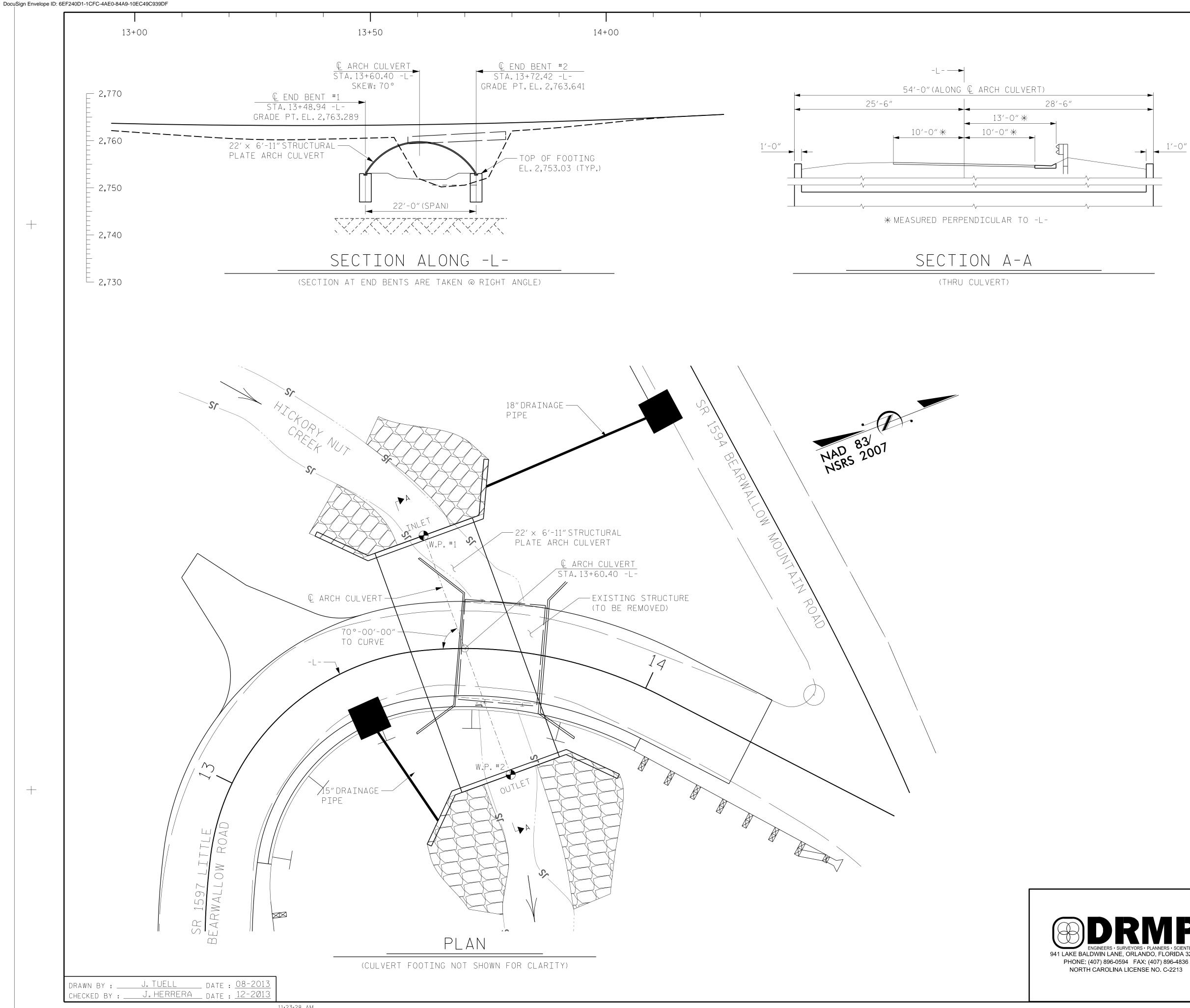
This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document -

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page. This file or an individual page shall not be considered a certified document.



^{11:23:28} AM W:\Projects11\11-0481.003_Bridge_No261_NCDOT_17BP_14_R18\Structures\44-0261_SD_GD.dgn mhage

NOTES

1. ASSUME LIVE LOAD = HL-93 OR ALTERNATE.

- 2.22' × 6'-11" STRUCTURAL PLATE ARCH CULVERT AND WING WALLS TO BE DESIGNED BY A N.C. REGISTERED ENGINEER IN ACCORDANCE WITH APPLICABLE PORTIONS OF STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES ADOPTED BY AASHTO.CONSTRUCTION SHALL MEET THE APPLICABLE SECTIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
- 3. REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER, IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.
- 4. FOR BLASTING ADJACENT TO HIGHWAY STRUCTURES, SEE ARTICLE 410-9 OF THE STANDARD SPECIFICATIONS.
- 5. FOR COMPLETE HORIZONTAL AND VERTICAL ALIGNMENT DATA, SEE ROADWAY PLANS.

EXISTING BRIDGE

SUPERSTRUCTURE: 1 SPAN @ 18'-8"TIMBER DECK SUBSTRUCTURE: TIMBER ABUTMENTS AND TIMBER PILES

HYDRAULIC DATA

DESIGN DISCHARGE	Ξ	490 CFS
FREQUENCY OF DESIGN FLOOD	Ξ	25 YR.
DESIGN HIGH WATER ELEV.	Ξ	2,757.80 FT.
DRAINAGE AREA	Ξ	0.89 SQ.MI.
BASE FLOOD DISCHARGE (Q ₁₀₀)	=	800 CFS
BASE FLOOD HIGH WATER ELEV.	Ξ	2,760.68 FT.

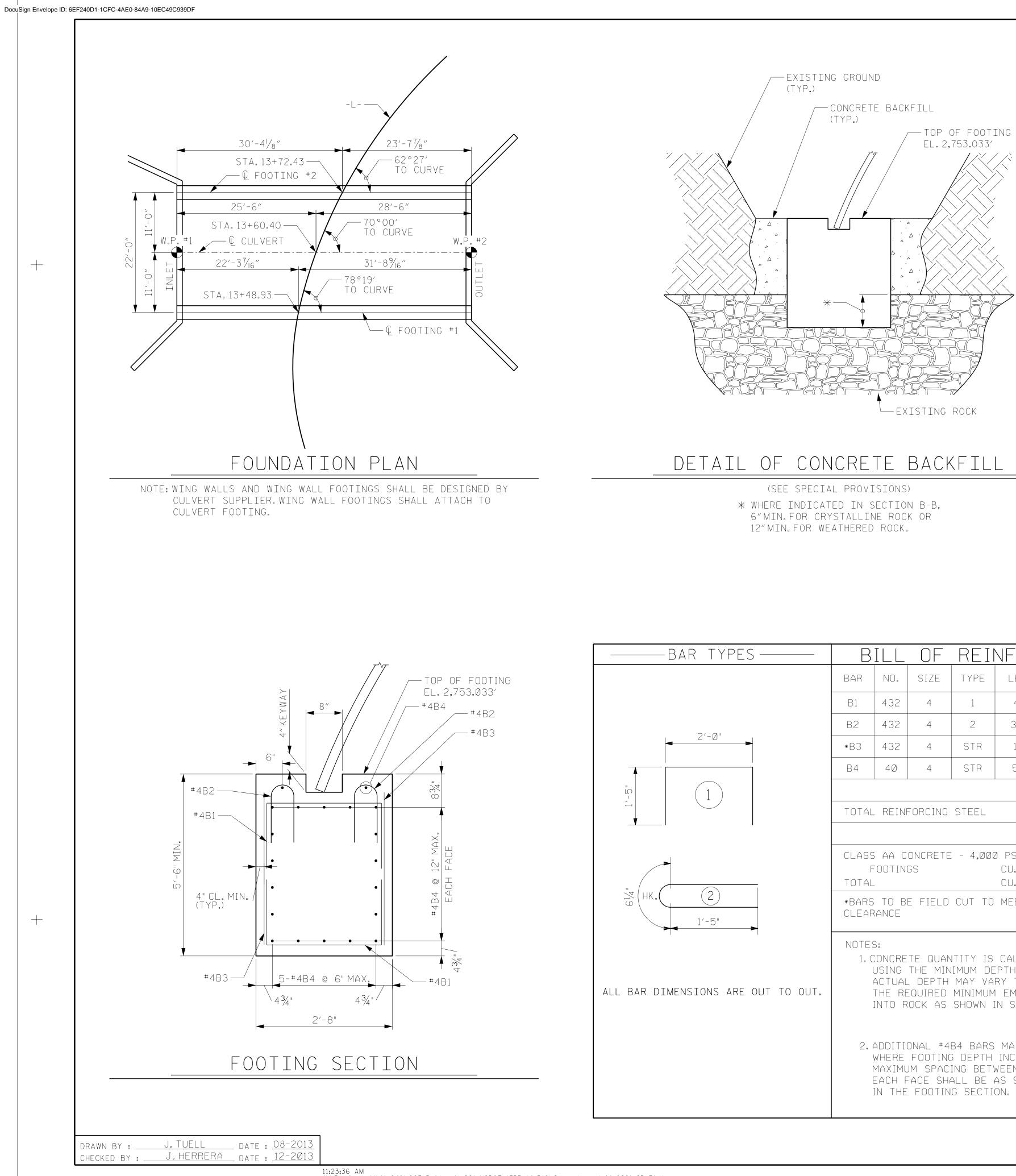
OVERTOPPING INFO.

ELEVATION	= 2,762.90 FT.
FREQUENCY	= 500+ YR.
DISCHARGE	= 1,200 CFS

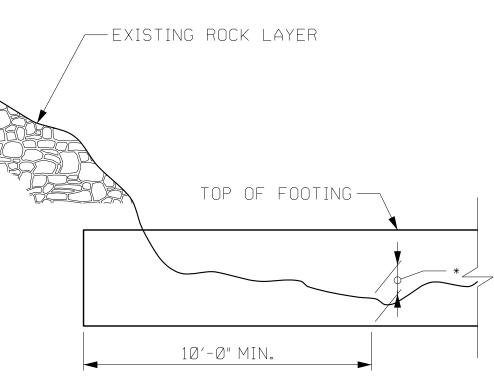
WORK POINTS

WORK POINT	STATION	OFFSET
#1	13+53.50 -L-	24.29′LT.
#2	13+74.09 -L-	26.05′RT.

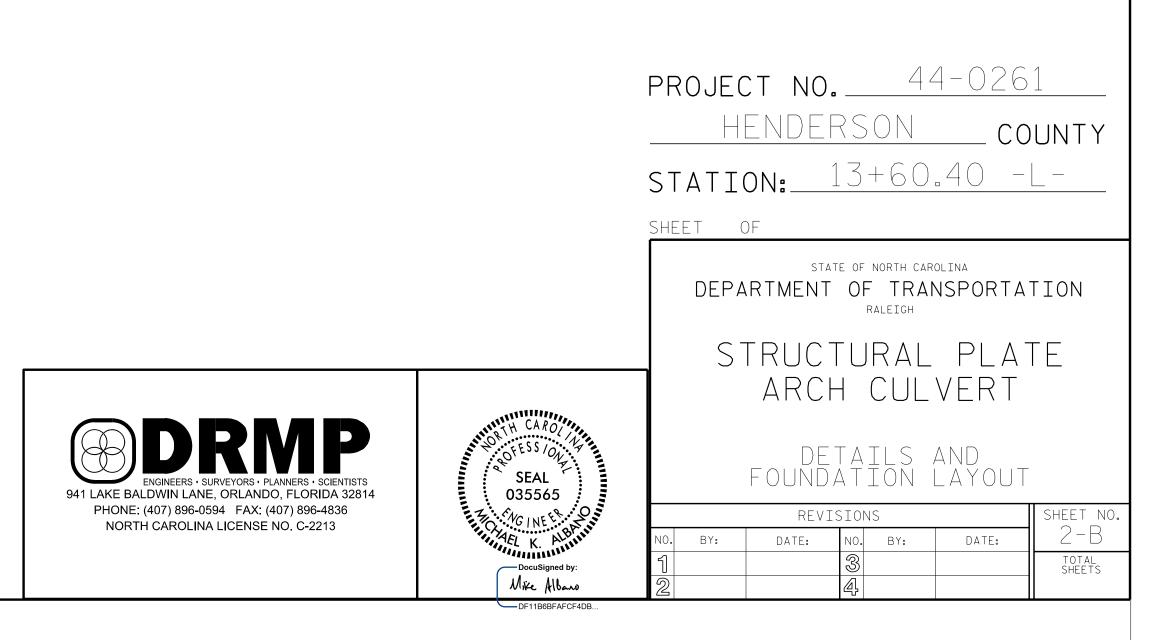
		PROJECT NO. 44-0261 HENDERSON COUNTY STATION: 13+60.40 -L- SHEET OF OF
	TH CAROLINA	DEPARTMENT OF TRANSPORTATION RALEIGH BRIDGE #261 ON SR 1597 OVER HICKORY NUT CREEK
SCIENTISTS RIDA 32814 5-4836 2213	SEAL 35565 30, 10, 14 SEAL 035565 30, 10, 14 SEAL 035565	20' CL. ROADWAY 70°-00' SKEW REVISIONS SHEET NO. NO. BY: DATE: NO. BY: DATE: 2-A
	DocuSigned by: Mike Albano DF11B6BFAFCF4DB	13TOTAL SHEETS24



11:23:36 AM W:\Projects11\11-0481.003_Bridge_No261_NCDOT_17BP_14_R18\Structures\44-0261_SD_E1.dgn mhage

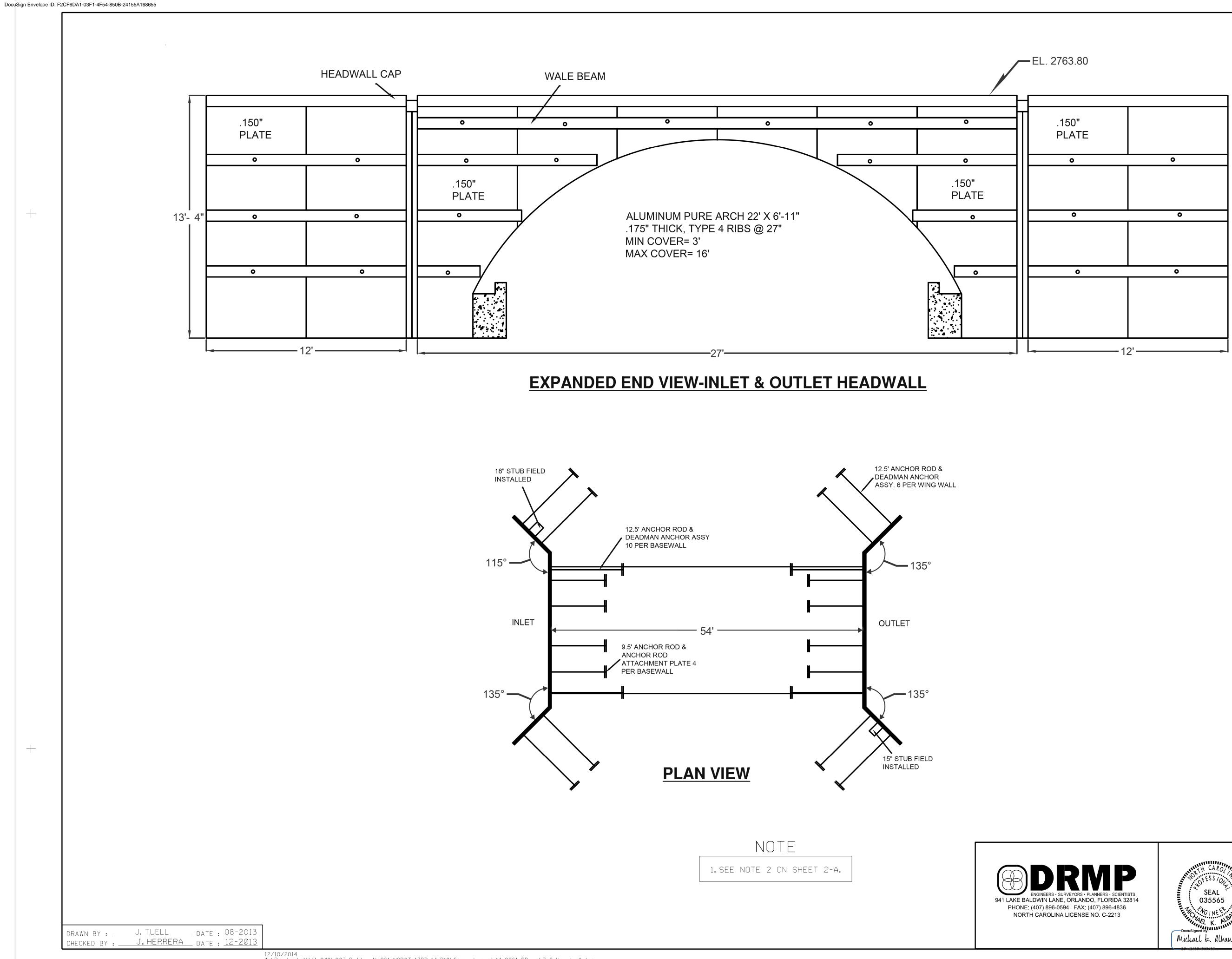


BAR TYPES — — —	В	ILL	OF	REI	NFORC]	[NG
	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
	B1	432	4	1	4′-1∅″	1395
	B2	432	4	2	3′-41⁄4″	968
2′-∅"	*B3	432	4	STR	10'-0"	2886
	Β4	4Ø	4	STR	53'-4"	1426
$\left(\begin{array}{c}1\end{array}\right)$						
	TOTAL REINFORCING STEEL 6,675 LBS					75 LBS.
	CLASS AA CONCRETE - 4,000 PSI Footings cu.yds. 57.8					
	TOTAL				CU. YDS.	57.8
(2) 1'-5"	*BARS TO BE FIELD CUT TO MEET ADEQUATE Clearance					
MENSIONS ARE OUT TO OUT.	NOTES: 1. CONCRETE QUANTITY IS CALCULATED USING THE MINIMUM DEPTH SHOWN. ACTUAL DEPTH MAY VARY TO ACHIEVE THE REQUIRED MINIMUM EMBEDMENT INTO ROCK AS SHOWN IN SECTION B-B. 2. ADDITIONAL #4B4 BARS MAY BE REQUIRED WHERE FOOTING DEPTH INCREASES. MAXIMUM SPACING BETWEEN BARS ON EACH FACE SHALL BE AS SHOWN					
	IN THE FOOTING SECTION.					



SECTION B-B

✤ 6″MIN.FOR CRYSTALLINE ROCK OR 12″MIN.FOR WEATHERED ROCK.



		PROJECT NO. <u>44-0261</u> <u>HENDERSON</u> COUNTY	— Ý		
		STATION: <u>13+60.40</u> -L-	-		
	SHEET OF				
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
		STRUCTURAL PLATE ARCH CULVERT			
D CFESS/01/4		HEADWALL DETAILS			
96-4836 2213	THE THE INE PROVIDE	REVISIONS SHEET NO. BY: DATE: NO. BY: DATE: 2-0			
	Docusigned by: Michael & Albano	NO. BY: DATE: Z C 1 3 TOTAL SHEETS 2 4 TOTAL SHEETS			