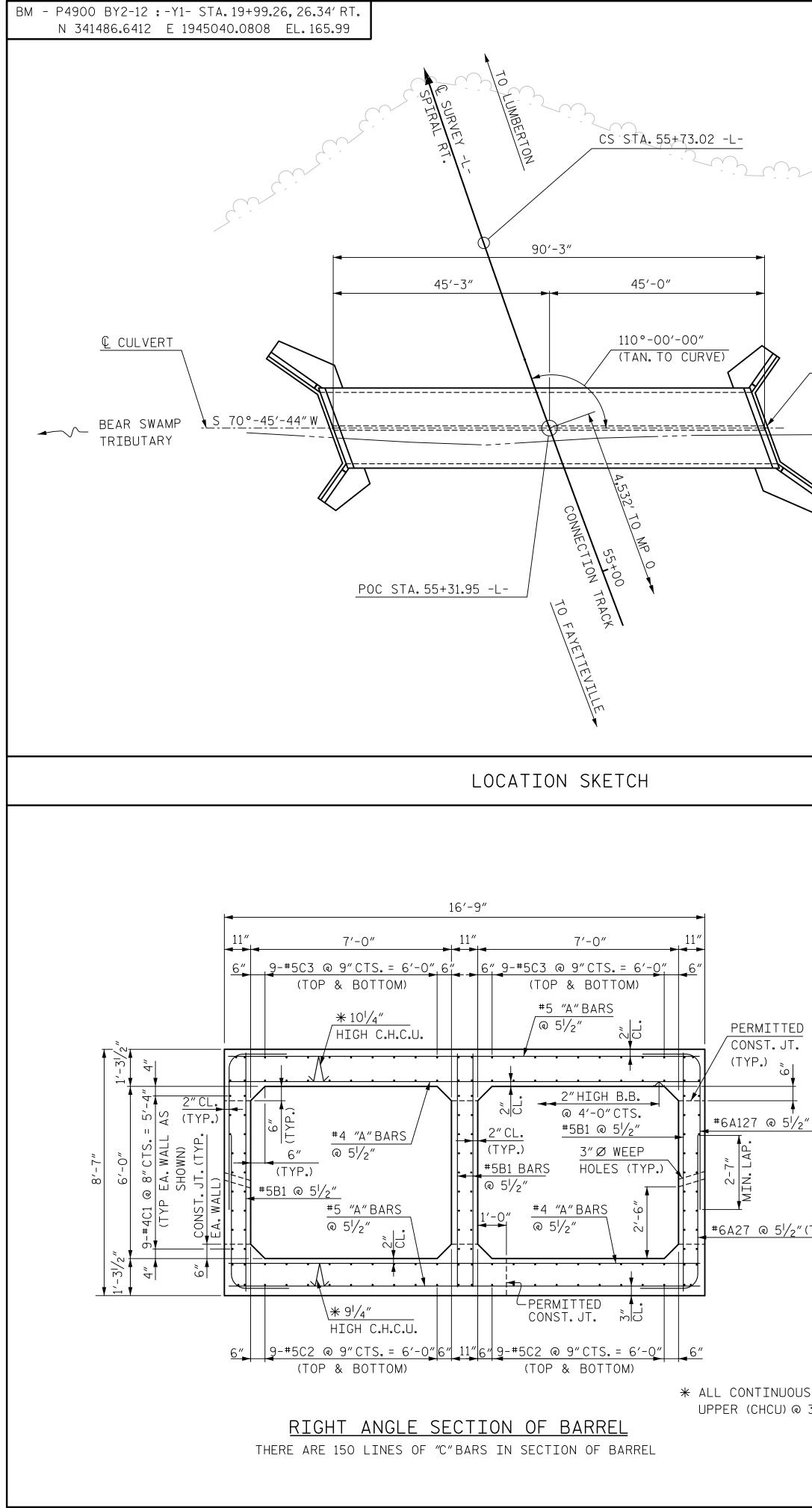
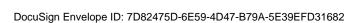
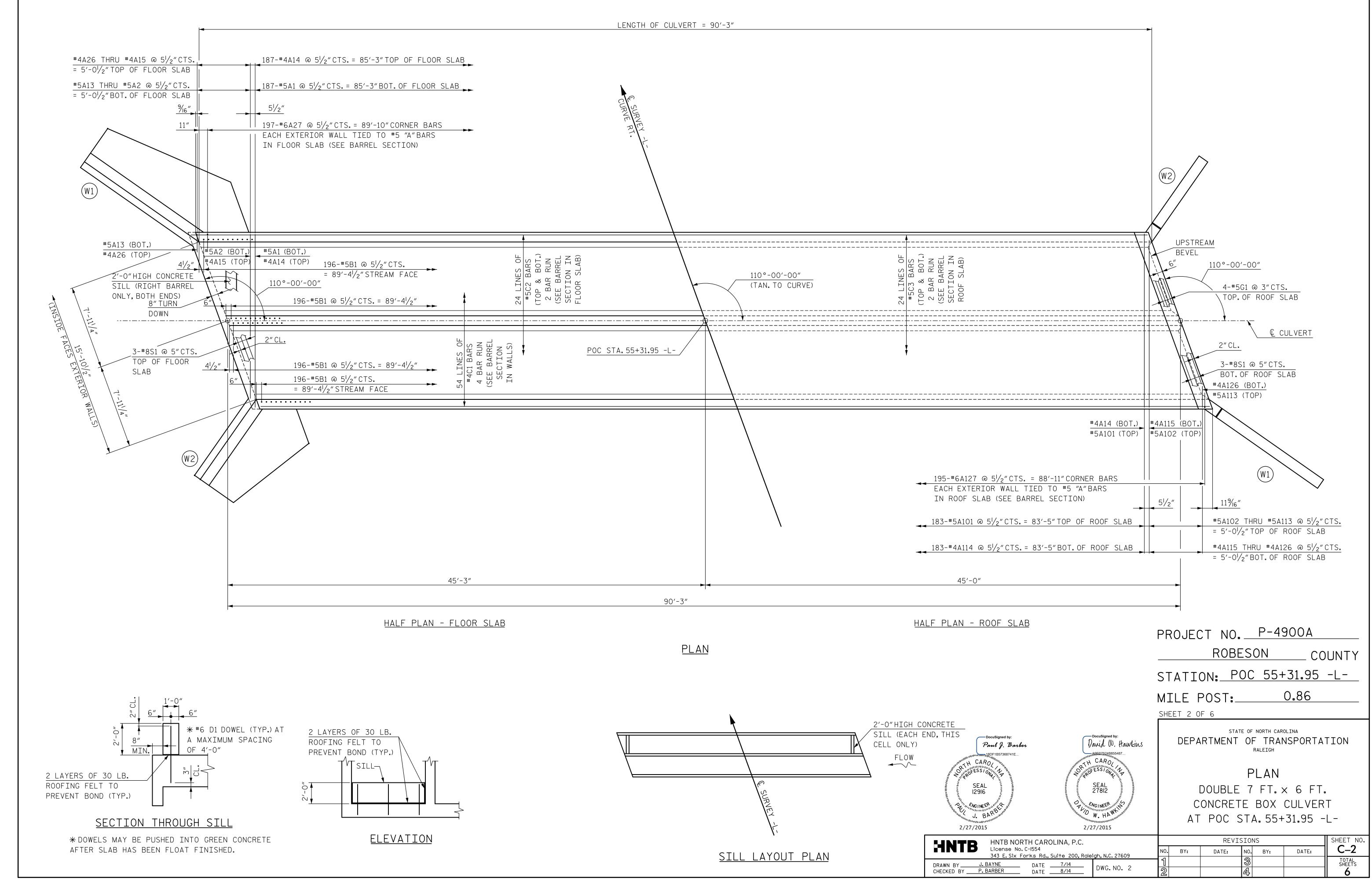
# This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document -

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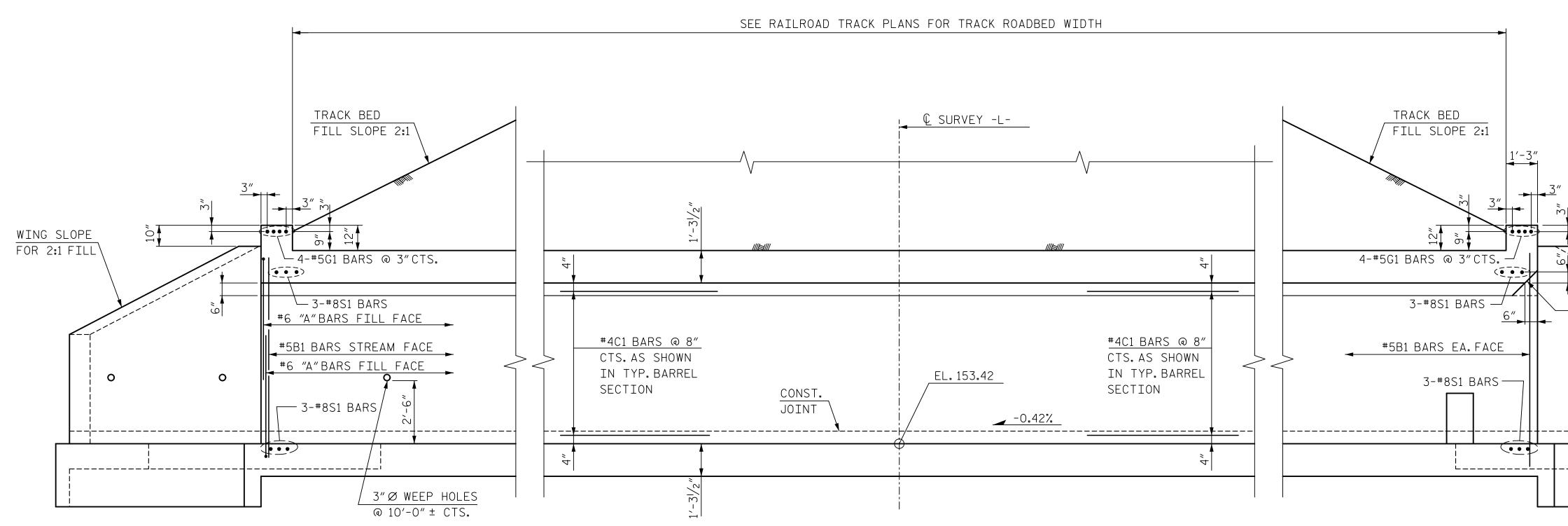


GRADE DATA TOP OF RAIL ELEV. @ POC STA. 55+	<u>NOTES:</u> Assumed live load = arema e-80 This culvert has been designed in accordance with the
CULVERT BED ELEVATION @ POC ST	RATI WAY ENGINEERING, VUL, Z, STRUCTURES,
TRACKBED SLOPES 2:1	DESIGN FILL = 16.1' (BASE OF RAIL TO TOP OF STRUCTURE)
HYDRAULIC DATA	FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.
DESIGN DISCHARGE FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEV. DRAINAGE AREA	<ul> <li>310 CFS</li> <li>100 YR. A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL</li> <li>159.51 FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE</li> <li>199 ACRES EXPANSION JOINT.</li> </ul>
BASIC DISCHARGE (Q100) BASIC HIGH WATER ELEV.	= 310 CFS = 159.51 FOR OTHER DESIGN DATA AND NOTES SEE STRUCTURE STANDARD NOTE SHEET.
OVERTOPPING FLOOD OVERTOPPING DISCHARGE	$\frac{TA}{3'} = N/A$
UPSTREAM END UPSTREAM END OVERTOPPING DISCHARGE FREQUENCY OF OVERTOPPING FLOOD OVERTOPPING FLOOD ELEV.	<ul> <li>NZA</li> <li>&gt;500+ YR.</li> <li>THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE</li> <li>163.3</li> <li>STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE</li> <li>OF THE FILL.</li> </ul>
	DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.
TOTAL STRUCTURE QUANTITE CAST-IN-PLACE CONCRETE (4,500 BARREL @25CY/FT203	C.Y. SHALL BE PAID FOR BY THE CONTRACTOR.
FOUNDATION CONDITIONING MATERIAL, BOX CULVERT 107 CULVERT EXCAVATION	CULVERT AND WINGS SHALL BE CONSTRUCTED USING CAST-IN-PLACE CONCRETE WITH f'c = 4,500 psi.FOR CONCRETE AND REINFORCING, SEE "CAST-IN-PLACE CONCRETE" SPECIAL PROVISION.
AT STATION POC 55+31.95 -L-         NO KNOWN UTILITY CONFLICTS         PLAIN RIP RAP, CLASS I	TONS OF ALL VERTICAL WALLS. CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER: I. WING FOOTINGS AND FLOOR SLAB INCLUDING 6"
	2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.
FOR CRANE SAFETY, SEE SPECIAL PROVISIO	
FOR SUBMITTAL OF WORKING DRAWINGS,SE FOR FALSEWORK AND FORMWORK,SEE SPECI	IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS.EXTRA WEIGHT OF STEEL DUE
FOR GROUT FOR STRUCTURES, SEE SPECIAL	
IT. IT. Q SURVEY -L-	BED MATERIAL PLACED BETWEEN SILLS IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL BETWEEN THE LOWER SILLS.THE MATERIAL SHALL BE NATURAL STONE WITH A GRADATION SIZE SIMILAR TO THAT OF CLASS I RIP RAP.BED MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER.
PROPOSED EXISTING	EL. 154.6 ± PROJECT NO. P-4900A
5 <sup>1</sup> / <sub>2</sub> "(TYP.) <u>EL. 154.2</u> ± CULVERT	ROBESONCOUNTY
	STATION: <u>POC 55+31.95 -L-</u>
-0.42% (PROPOSED) EL.153.42	MILE POST: 0.86
45'-3"	
<u>PROFILE ALONG &amp; CULVERT</u>	Paul J. Barber WINNING CARO (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
THE AREA CONTAINING THE CULVERT IS TO BE UNDERCUT TO PROVIDE THE NECESSARY STABILITY FOR THE TRACKBED.	CAROZINIUM CAROZINIUM CAROZINIUM CAROZINIUM CAROZINIUM CAROZINIUM CAROZINUM CAROZINA CAROZINA CAROZINA CAROZINA CARO
SEE TRACKWORK PLANS FOR DETAILS.NO UNDERCUT PAY ITEM ASSOCIATED WITH THE CULVERT CONSTRUCTION IS NOUS HIGH CHAIR REQUIRED.	<sup>12916</sup> <sup>27812</sup> DOUBLE 7' X 6'
OUS HIGH CHAIR REQUIRED. @ 3'-O"CTS.	And ConceptionAnd ConceptionAnd ConceptionConceptionConception1. BAR1. BAR
	HNTB NORTH CAROLINA, P.C. License No. C-1554 NO BY: DATE: NO BY: DATE: DA
	DRAWN BY J. BAYNE DATE 7/14 DWG NG L

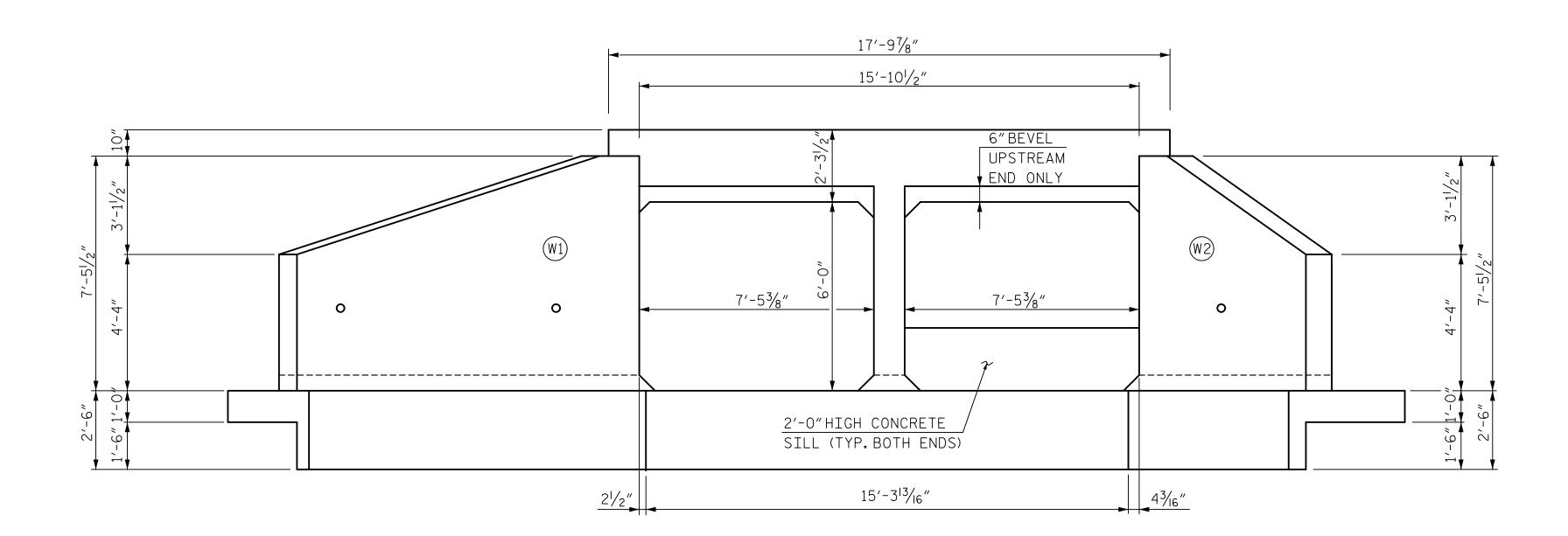




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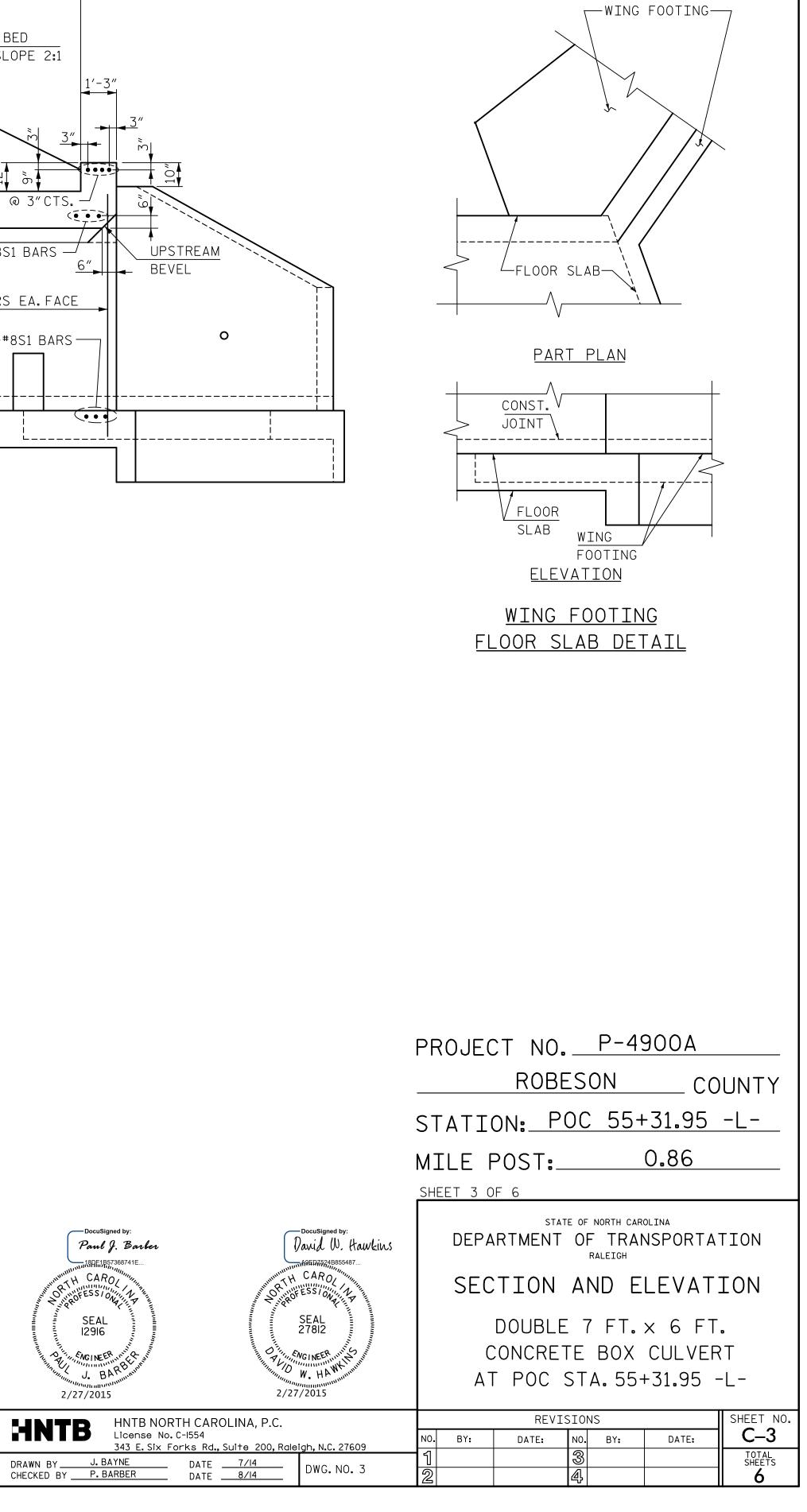
EXTERIOR WALL



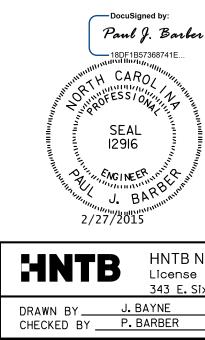
<u>END ELEVATION NORMAL TO SKEW</u>

INTERIOR WALL

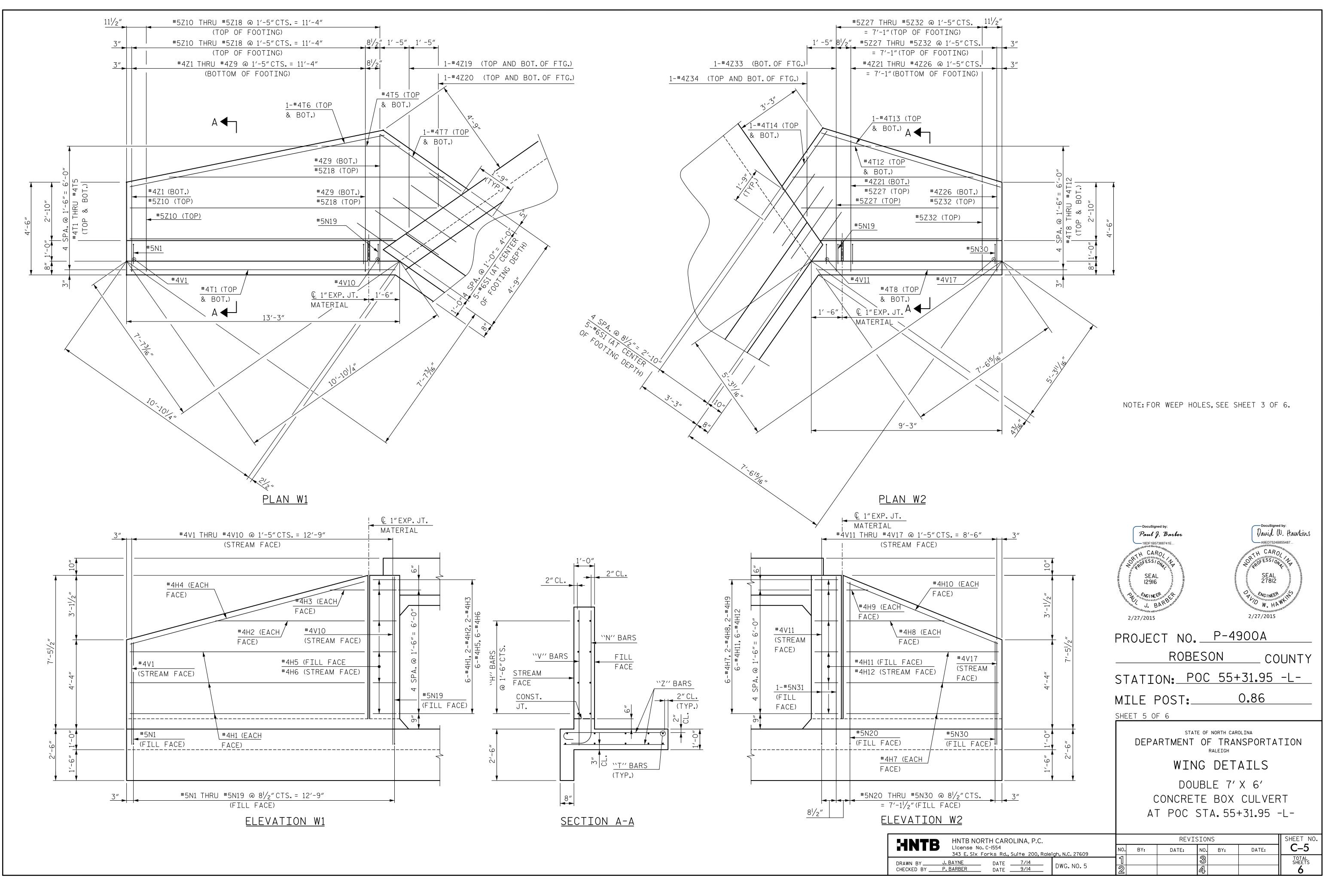
# CULVERT SECTION NORMAL TO ROADWAY



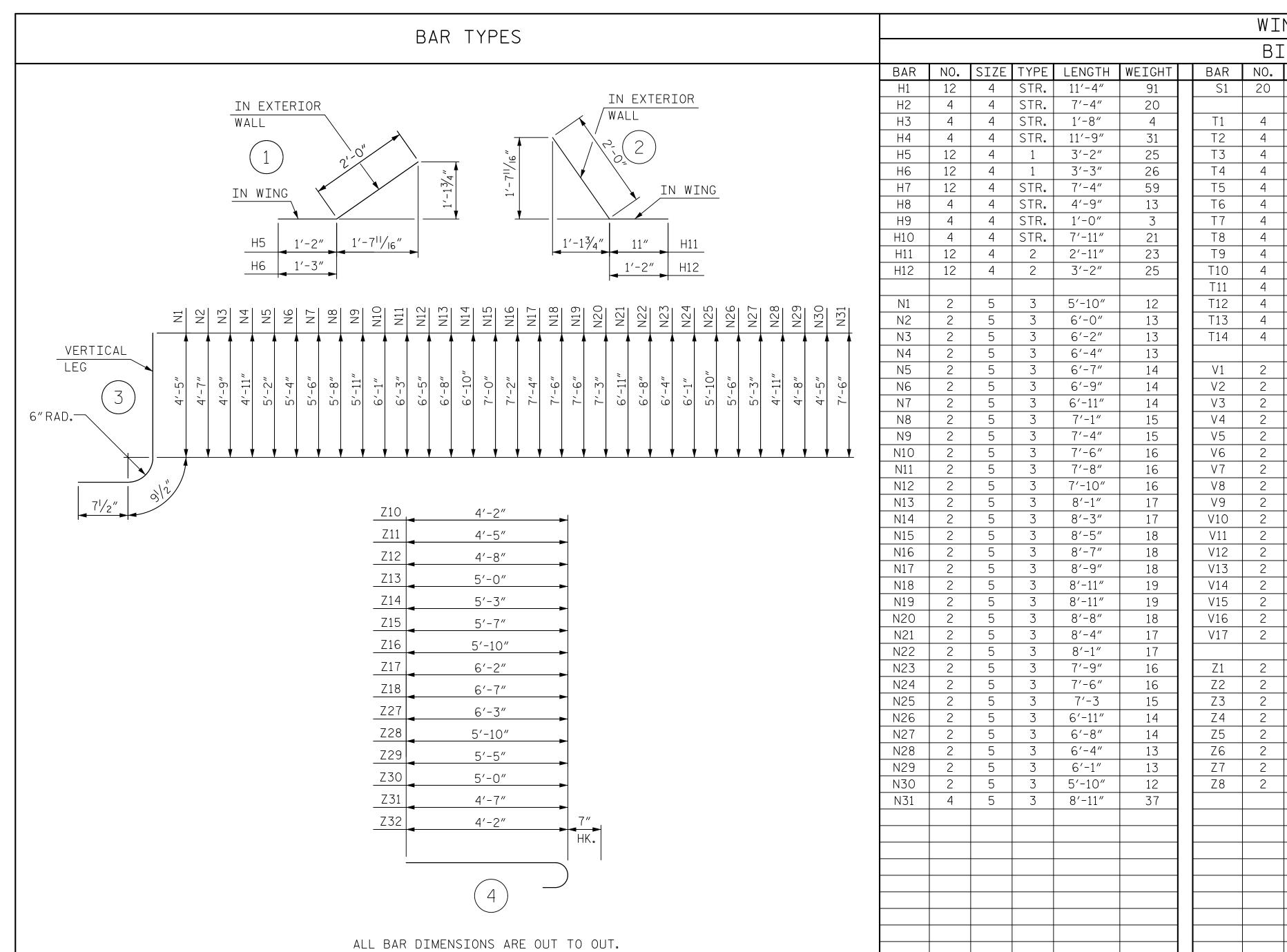
BAR TYPE	BILL OF MATERIAL	
	BAR NO. SIZE TYPE LENGTH WEIGHT	
	A1         187         5         STR.         16'-5"         3,202           A2         2         5         STR.         15'-5"         32	
VERTICAL LEG	A3     2     5     STR.     14'-2"     30       A4     2     5     STD     12' 11"     27	
	A4         2         5         STR.         12'-11"         27           A5         2         5         STR.         11'-8"         24	
	A6     2     5     STR.     10'-5"     22       A7     2     5     STD     0'-2"     10	
	A7         2         5         STR.         9'-2"         19           A8         2         5         STR.         7'-11"         17	
6″ R.	A9     2     5     STR.     6'-8"     14       A10     2     5     STR.     5'-5"     11	
	A10     2     3     311       A11     2     5     STR.     4'-1"	
2'-2"	A12     2     5     STR.     2'-10"     6       A13     2     5     STR.     1'-7"     3	
	A14 187 4 STR. 16'-5" 2,051	
	A15     2     4     STR.     15'-5"     21       A16     2     4     STR.     14'-2"     19	
	A17 2 4 STR. 12'-11" 17	
	A18     2     4     STR.     11'-8"     16       A19     2     4     STR.     10'-5"     14	
	A20 2 4 STR. 9'-2" 12	
ALL BAR DIMENSIONS ARE OUT TO OUT	A21         2         4         STR.         7'-11"         11           A22         2         4         STR.         6'-8"         9	
	A23 2 4 STR. 5'-5" 7	
	A24     2     4     STR.     4'-1"     5       A25     2     4     STR.     2'-10"     4	
	A26 2 4 STR. 1'-7" 2	
SPLICE LENGTH CHART	A27         392         6         1         7'-11"         4,661           A101         183         5         STR.         16'-5"         3,133	
BAR SIZE SPLICE LENGTH	A102 2 5 STR. 15'-5" 32	
C BARS IN WALLS         #4         1'-11"           C BARS IN SLABS         #5         2'-5"	A103       2       5       STR.       14'-2"       30         A104       2       5       STR.       12'-11"       27	
	A105 2 5 STR. 11'-8" 24	
	A106     2     5     STR.     10'-5"     22       A107     2     5     STR.     9'-2"     19	
	A108 2 5 STR. 7'-11" 17	
	A109     2     5     STR.     6'-8"     14       A110     2     5     STR.     5'-5"     11	
	A111 2 5 STR. 4'-1" 9	
	A112     2     5     STR.     2'-10"     6       A113     2     5     STR.     1'-7"     3	
	A114 183 4 STR. 16'-5" 2,007	
	A115       2       4       STR.       15'-5"       21         A116       2       4       STR.       14'-2"       19	
	A117     2     4     STR.     12'-11"     17       A118     2     4     STP     11'-8"     16	
	A118       2       4       STR.       11'-8"       16         A119       2       4       STR.       10'-5"       14	
	A120     2     4     STR.     9'-2"     12       A121     2     4     STR     7'-11"     11	
	A121     2     4     STR.     7'-11"     11       A122     2     4     STR.     6'-8"     9	
	A123       2       4       STR.       5'-5"       7         A124       2       4       STR.       4'-1"       5	
	A125 2 4 STR. 2'-10" 4	
	A126       2       4       STR.       1'-7"       2         A127       390       6       STR.       7'-11"       4,637	
	A121 330 0 311. 11 4,031	
	B1 784 5 STR. 8'-2" 6,678	
	C1 216 4 STR. 23'-11" 3,451	
	C2       96       5       STR.       46'-11"       4,698         C3       96       5       STR.       46'-2"       4,623	
	D1 6 6 STR. 2'-10" 26	
	G1 8 5 STR. 17'-5" 145	
	S1 12 8 STR. 17'-5" 558	
	REINFORCING STEEL LBS. 40,572	
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	PROJECT NO. <u>P-4900A</u>
	ROBESON COUNTY
	STATION: <u>POC 55+31.95 -L-</u>
	MILE POST: 0.86
	SHEET 4 OF 6
DocuSigned by: David W. Hawkins A9ED7524B855487	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
THE STORESSION AND AND AND AND AND AND AND AND AND AN	REINFORCING SCHEDULE
ATTINITY OF UNITED SEAL 27812 W. HAWKING	DOUBLE 7 FT. × 6 FT.
WGINEER WINN	CONCRETE BOX CULVERT
SEAL 27812 W. HAWKING W. HAWKING	AT POC STA.55+31.95 -L-
B NORTH CAROLINA, P.C.	REVISIONS SHEET NO.
se No. C-1554 . Six Forks Rd., Suite 200, Raleigh, N.C. 27609	NO. BY: DATE: NO. BY: DATE: C-4
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NO.	SIZE			≺∟  WEIGHT	В	AR	NO.	SIZE	TYPE	LENGTH	WEIGHT
20	6	STR.	3'-6"	105		<u>79</u>	4	4	STR.	6′-7″	18
				100		10	4	5	4	4'-9"	20
4	4	STR.	12'-2"	33			4	5	4	5'-0"	21
4	4	STR.	12'-8″	34		12	4	5	4	5′-3″	22
4	4	STR.	14'-10"	40		13	4	5	4	5′-7″	23
4	4	STR.	13'-2"	35		14	4	5	4	5'-10"	24
4	4	STR.	3'-7"	10		15	4	5	4	6'-2"	26
4	4	STR.	12'-6″	33		16	4	5	4	6'-5"	27
4	4	STR.	4'-9"	13		17	4	5	4	6'-9"	28
4	4	STR.	8'-4"	22		18	4	5	4	7'-2″	30
4	4	STR.	8'-6"	23		19	4	4	STR.	3'-6"	9
4	4	STR.	9′-6″	25		20	4	4	STR.	1'-6"	4
4	4	STR.	8'-7"	23		.21	2	4	STR.	6'-3"	8
4	4	STR.	2'-6"	7		22	2	4	STR.	5'-10"	8
4	4	STR.	8'-10"	24		23	2	4	STR.	5'-5"	7
4	4	STR.	3'-3"	9		24	2	4	STR.	5'-0"	7
•						25	2	4	STR.	4'-7"	6
2	4	STR.	4'-11"	7		26	2	4	STR.	4'-2"	6
2	4	STR.	5'-3"	7		27	4	5	4	6'-10"	29
2	4	STR.	5′-8″	8		28	4	5	4	6'-5"	27
2	4	STR.	6'-0"	8		<u>20</u> 29	4	5	4	6'-0"	25
2	4	STR.	6'-5"	9		<u> </u>	4	5	4	5'-7"	23
2	4	STR.	6'-9"	9		.31	4	5	4	5'-2"	22
2	4	STR.	7'-2"	10		32	4	5	4	4'-9"	20
2	4	STR.	7'-6"	10		<u>32</u> 33	2	4	STR.	6'-6"	9
2	4	STR.	7'-10"	10		<u>34</u>	4	4	STR.	2'-8"	7
2	4	STR.	8'-0"	11		0 1		•			
2	4	STR.	8'-0"	11							
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2	4	STR.	5'-5"	7							
2	4	STR.	4'-11"	7							
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2	4	STR.	4'-2"	G							
2			4'-5"	6							
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2	4	STR.	4'-8"	6							
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DUUBLE ( X 6 CONCRETE BOX CUVERT AT POC STA. 55+31.95 -L-

B NORTH CAROLINA, P.C.			REVI	SION	١S		SHEET NO.
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#### DESIGN DATA:

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SPECIFICATIONS	AREMA (CURRENT)
LIVE LOAD	SEE PLANS
IMPACT ALLOWANCE	SEE AREMA
STRESS IN EXTREME FIBER OF	
STRUCTURAL STEEL - AASHTO M270 GRADE 36 -	SEE AREMA
- AASHTO M270 GRADE 50W -	SEE AREMA
- AASHTO M270 GRADE 50 -	SEE AREMA
REINFORCING STEEL IN TENSION	
GRADE 60	SEE AREMA
GRADE 60 CONCRETE IN COMPRESSION	SEE AREMA SEE AREMA
	SEE AREMA
CONCRETE IN COMPRESSION	SEE AREMA
CONCRETE IN COMPRESSION	SEE AREMA SEE AREMA
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### MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2012 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

## CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

#### CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1-1/2"RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4"FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

#### DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

# STANDARD NOTES

## ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE. ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION. VERTICAL CURVE ORDINATE. AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

### **REINFORCING STEEL:**

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

## STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 7/8" Ø SHEAR STUDS FOR THE  $\gamma_4$ "ø studs specified on the plans. This substitution shall be made at THE RATE OF 3 - 7/8"Ø STUDS FOR 4 - 3/4"Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 7/8" Ø STUDS ALONG THE BEAM AS SHOWN FOR 3/4" Ø STUDS BASED ON THE RATIO OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-O".

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 5/16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2"OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/16 INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING. GALVANIZING. OR METALLIZING.

## HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB. METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

#### SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.



STD. NO. SN