STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

Minutes of Pre-Bid Conference

DATE: Monday, June 20, 2011

TIME: 1:00 p.m.

PROJECT: WBS 42575.3.1 / DO00124 / BK-5124 / Burke County Replacing Bridge No. 307

LOCATION: Chief Engineer's Conference Room, Maintenance Building, Raleigh, Wake County

A mandatory pre-bid conference was held for the above listed project. A list of attendees is attached to these minutes. Mr. Zaki Wafa of the Bridge Management Unit conducted the pre-bid conference. The bid opening date is at 2:00 p.m., Thursday, June 30, 2011. The following items are noted and are hereby made part of the contract:

1. The Engineer for this project is Mr. Garry Moore, Division 13 Bridge Program Manager.

2. Contractor shall pick up the precast prestressed concrete cored slabs and the precast concrete barrier rails from Burke County Maintenance Yard located at 2161 C, Mount Home Church road, Morganton, North Carolina 28655, and transport them to the construction site. Cored slab/barrier rail assemblies, transverse strands and anchorage as shown on plan sheet number 2, Detail "A" shall be provided by the contractor. All work covered herein shall be paid under the pay item number 41 and 43 and shall be full compensation for all material, tools, equipment, labor, and for all incidentals necessary to complete the work.

MAILING ADDRESS:
Bridge Management Unit
1565 Mail Service Center
Raleigh, NC 27699-1565

Telephone: 919-733-4362
FAX: 919-733-2348

WEBSITE:www.doh.dot.state.nc.us

LOCATION
4809 Beryl Road
Raleigh, NC 27606

3. Revised bid sheet page 135 is attached adding a bid item for "Right of Way Markers."

4. Revised plan sheet numbers 2, 3, 4, 5, 6, 7, 9, 10, 12 and 13 are attached, reflecting the changes of cast-in-place concrete barrier rails to precast concrete barrier rails.

5. Environmental permit information is attached.

Attachments

Ec: Garry Moore, PLS
Prospective Bidders
File

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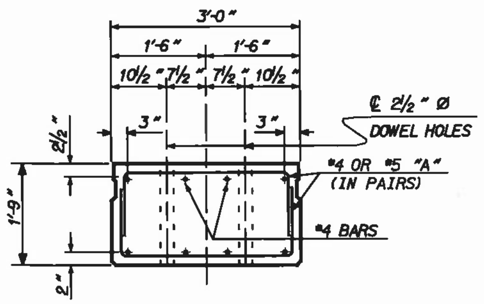
LOCATION
4809 Beryl Road
Raleigh, NC 27606

REVISED 6-22-11

LINE NO.	ITEM NO.	SEC. NO.	DESCRIPTION	QUANTITY	UNIT COST	AMOUNT
31.	6030000000-E	1630	SILT EXCAVATION	75 CY	_____	_____
32.	6036000000-E	1631	MATTING FOR EROSION CONTROL	100 SY	_____	_____
33.	6042000000-E	1632	¼" HARDWARE CLOTH	75 LIN. FT.	_____	_____
34.	6070000000-N	SP	SPECIAL STILLING BASIN	8 EACH	_____	_____
35.	6071020000-E	SP	POLYACRYLAMIDE (PAM)	28 LB	_____	_____
36.	6133000000-E	SP	GENERIC EROSION CONTROL	LS	LS	_____
37.	8035000000-N	402	REMOVAL OF EXISTING STRUCTURES	LS	LS	_____
38.	8182000000-E	420	CLASS A CONCRETE (BRG)	136.9 CY	_____	_____
39.	8210000000-N	422	BRIDGE APPROACH SLABS	LS	LS	_____
40.	8217000000-E	425	REINFORCING STEEL (BRG)	17,317 LB	_____	_____
41.	8503000000-E	460	CONCRETE BARRIER RAIL (INSTALLATION ONLY)	90 LIN. FT.	_____	_____
42.	8657000000-N	430	ELASTOMERIC BEARINGS	LS	LS	_____
43.	8762000000-E	430	3'-0" x 1'-9" PRESTRESSED CORED SLAB UNITS (INSTALLATION ONLY)	540 LIN. FT.	_____	_____
44.	200000000-N	806	RIGHT OF WAY MARKERS	28 EACH	_____	_____

TOTAL PROJECT BID_____



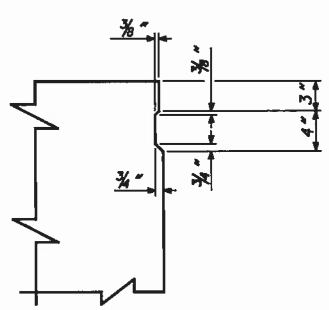
SLAB END ELEVATION

THE 2½" Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH LOW MODULUS SILICONE MATERIAL TO 1½" ABOVE TOP OF DOWELS AND THEN FILLED WITH GROUT.

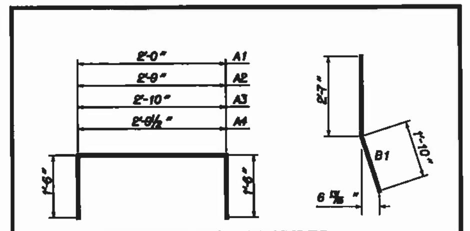
THE 2½" Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT.

SHEATH CHART		
SPAN LENGTH	NUMBER OF SHEATHED STRANDS PER EXTERIOR SLAB SECTIONS	NUMBER OF SHEATHED STRANDS PER INTERIOR SLAB SECTIONS
45'	✱5 @ 2"	✱4 @ 2"

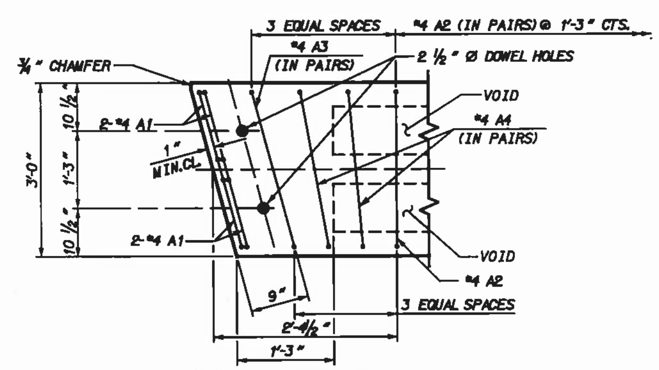
✱ BOND SHALL BE BROKEN ON THESE STRANDS FOR A DISTANCE OF 4 FEET FROM THE END OF THE SLAB



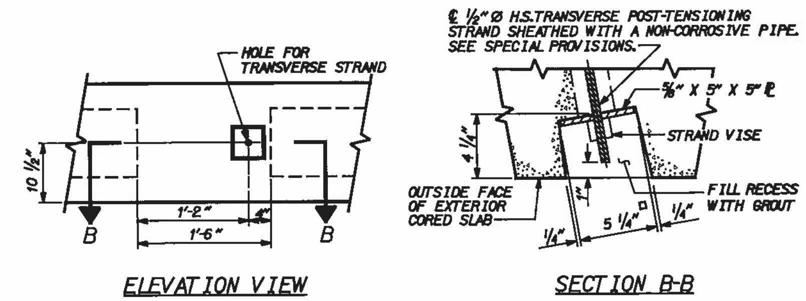
SHEAR KEY DETAIL



REINFORCING BAR TYPES
BAR DIMENSIONS ARE OUT TO OUT

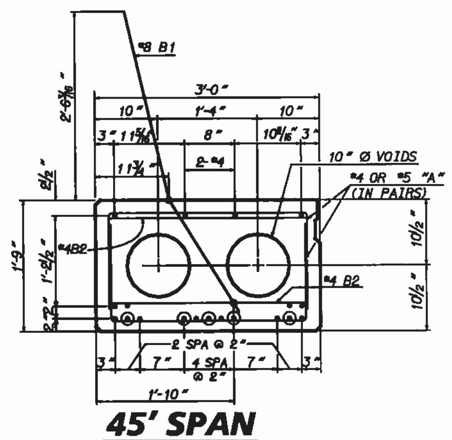


PART PLAN - SLAB



DETAIL "A"

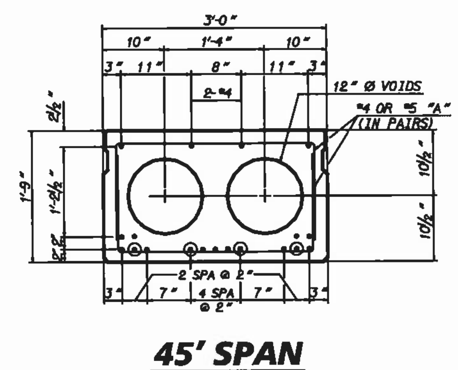
GROUTED RECESS AT END OF POST-TENSIONED STRAND CORED SLABS



45' SPAN

17 -½" Ø H.S.STRANDS EXTERIOR SLAB SECTIONS

⊙ STRAND IS SHEATHED. SEE SHEATH CHART.



45' SPAN

17 -½" Ø H.S.STRANDS INTERIOR SLAB SECTIONS

GENERAL NOTES

ASSUMED LIVE LOAD - HS 20-44 OR ALTERNATE LOADING.

CONCRETE: f'c - 5000 psi
✱ CONCRETE: f'ci - 4000 psi
✱ (COMPRESSIVE STRENGTH @ TRANSFER OF STRESSING FORCE.)

ALL PRESTRESS STRANDS SHALL MEET THE REQUIREMENTS OF ASTM A416.

ALL PRESTRESS STRANDS SHALL BE 7 WIRE, LOW RELAXATION, HIGH STRENGTH CABLES IN ACCORDANCE WITH THE SPECIFICATIONS.

SIZE TYPE	AREA	ULTIMATE STR.
1/2" Ø HIGH STR.	0.153 □" PER CABLE	41,300#

APPLIED FORCE
30,980# PER CABLE

EXP.JT.MAT'L.SHALL MEET THE REQUIREMENTS OF AASHTO SPECIFICATION M153 TYPE 1,TYPE II,OR TYPE III.

JOINT SEALER SHALL BE LOW MODULUS SILICONE SEALANT. SEE SECTION 1028-4 OF THE STANDARD SPECIFICATIONS.

STRUCTURAL STEEL ITEMS SHALL BE OF A GRADE CONFORMING TO EITHER ASTM A36 OR A373, EXCEPT HIGH STRENGTH BOLTS. HIGH STRENGTH BOLTS SHALL BE ASTM A325. ALL STRUCTURAL STEEL SHALL BE GALVANIZED AS PER THE SPECIFICATIONS.

ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OF THE NC DEPARTMENT OF TRANSPORTATION DATED JANUARY 2002 AND WITH THE SPECIAL PROVISIONS.

THE ULTIMATE STRENGTH OF THE CORED SLAB UNIT MUST MEET THE REQUIREMENTS OF THE APPLICABLE AASHTO SPECIFICATIONS.

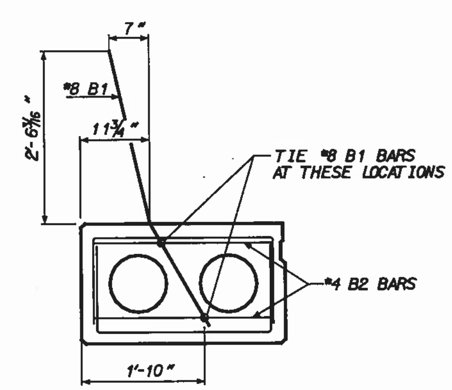
STRANDS SHALL BE CUT FLUSH WITH ENDS OF SLABS AND EPOXY COATED. SEE SPECIAL PROVISIONS.

A POSITIVE HOLD DOWN SYSTEM MUST BE EMPLOYED TO PREVENT VOIDS FROM RISING.

NOTE:
SPIRAL WIRE REINFORCEMENT MAY BE USED IN LEIU OF DEFORMED BARS FOR STIRRUPS. MIN.W3.5 X 6" PITCH.

UNLESS OTHERWISE NOTED ON THE PLANS. ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED ¾".

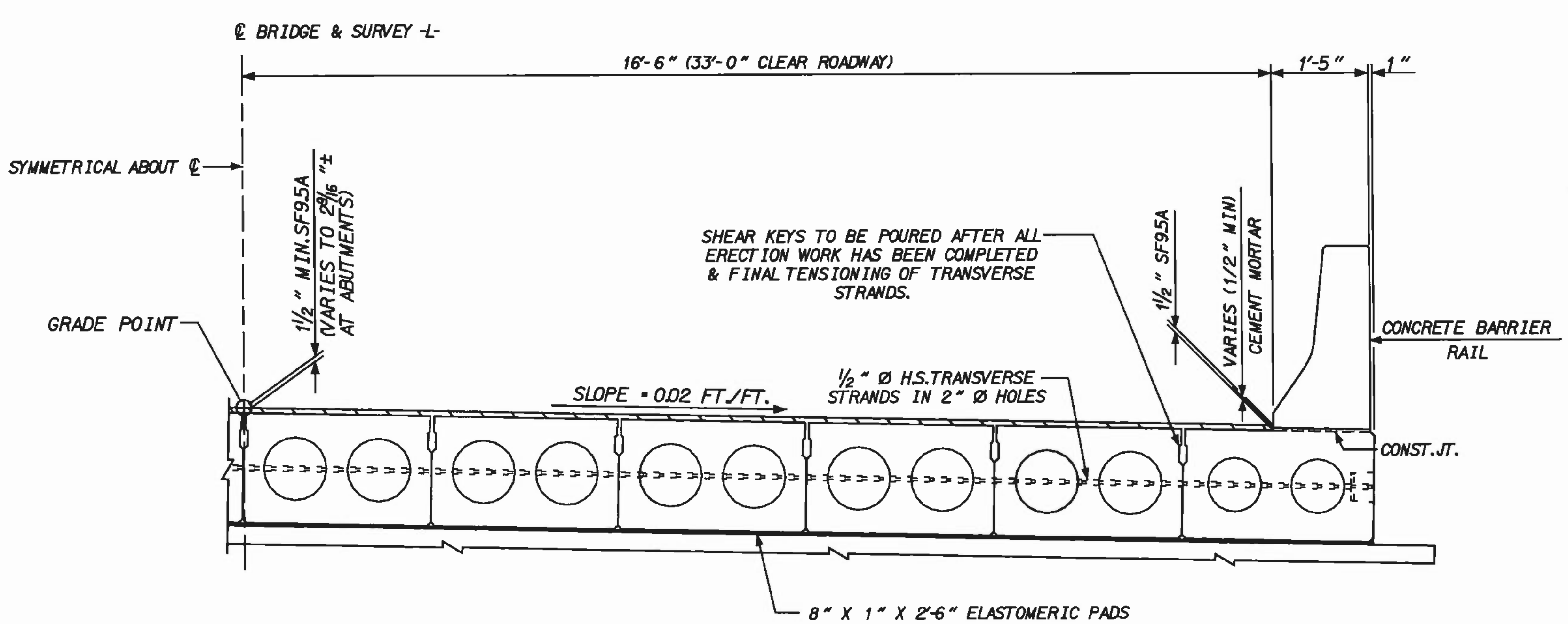
(1) REPLACES DRAWING 2 (6-7-11).



TIE LOCATION FOR #8 B1

EXTERIOR SLAB UNIT	45'
CAMBER (SLAB UNIT ALONE IN PLACE)	1.086" (UP)
DEFLECTION (SUPERIMPOSED DEAD LOAD)	0.170 (DOWN)*
FINAL DEFLECTION	0.916" (UP)
* INCLUDES FUTURE WEARING SURFACE	

INTERIOR SLAB UNIT	45'
CAMBER (SLAB UNIT ALONE IN PLACE)	1.255" (UP)
DEFLECTION (SUPERIMPOSED DEAD LOAD)	0.177" (DOWN)*
FINAL DEFLECTION	1.078" (UP)
* INCLUDES FUTURE WEARING SURFACE	



TYPICAL HALF SECTION

NOT TO SCALE

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

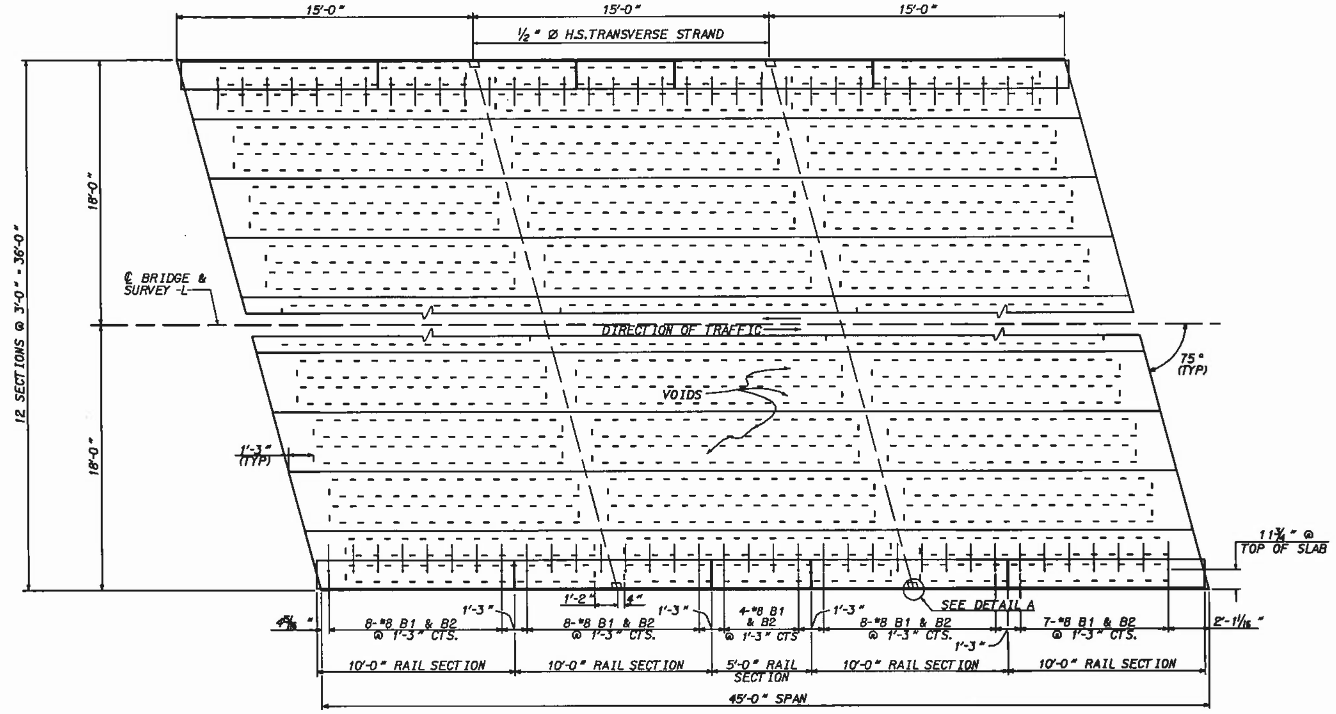
(1) 3'-0" X 1'-9" PRESTRESSED CORED SLAB UNIT 33'-0" CLEAR ROADWAY - 75° SKEW

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

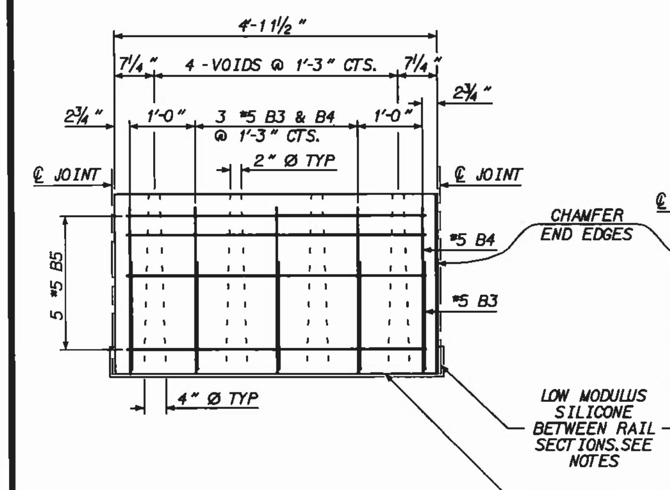
NORTH CAROLINA PROFESSIONAL SEAL 20532 J. E. MONDOLFI
6-22-11

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	2
1	JEM	6-20-11	3			TOTAL SHEETS
2			4			27

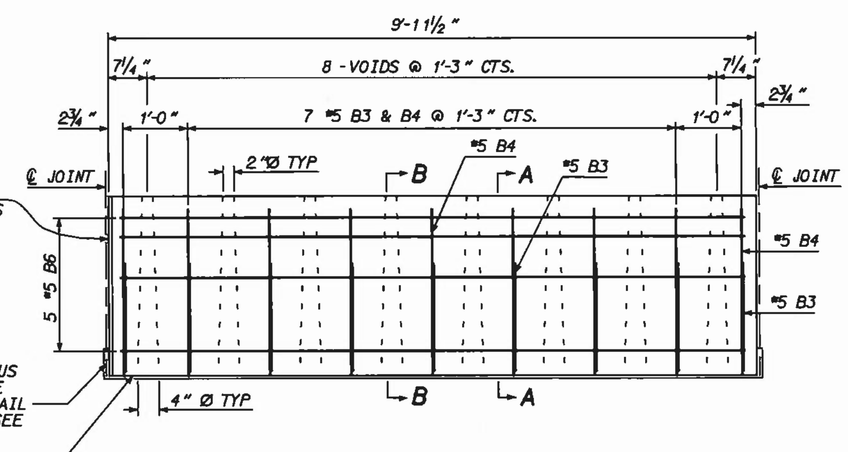
DRAWN BY: B.L.MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009



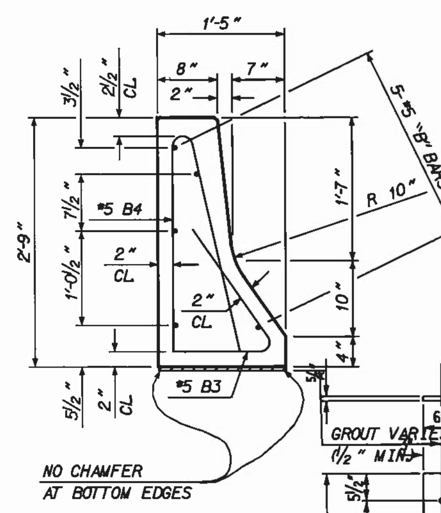
PLAN VIEW - 45' SPAN



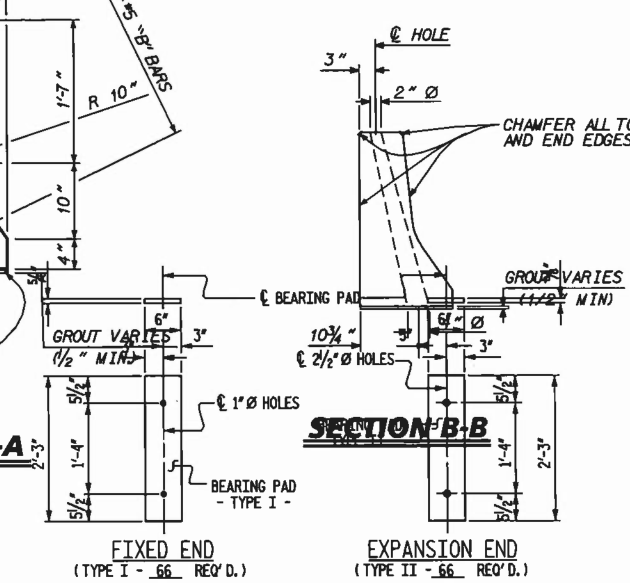
TYPICAL 5'-0" PRECAST UNIT



TYPICAL 10'-0" PRECAST UNIT



SECTION A-A



ELASTOMERIC BEARING DETAILS

NOTES

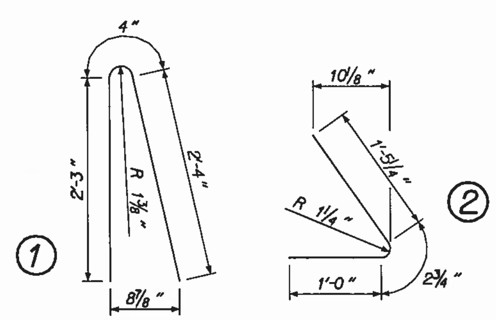
EACH PRECAST RAIL UNIT SHALL BE CAST WITH CLASS AA CONCRETE.

RAIL TO BE FLUSH WITH CORED SLAB UNITS AT EACH END OF SPAN.

EACH PRECAST RAIL UNIT SHALL BE SUPPLIED WITH LIFTING DEVICE(S). NO CABLES ARE TO BE WRAPPED AROUND THE RAIL UNITS FOR LIFTING.

THE EXPANSION JOINT SEALER SHALL BE LOW MODULUS SILICONE SEALANT. SEE SECTION 1028-4 OF THE STANDARD SPECIFICATIONS.

(1) REPLACES DRAWING 3 (6-7-11).



REINFORCING BAR TYPES
BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE 10'-0" RAIL SECTION					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B3	9	#5	1	4'-11"	46
B4	9	#5	2	2'-8"	25
B6	5	#5	STR	9'-7"	50
REINFORCING STEEL LBS. = 121					
CLASS AA CONCRETE CU. YDS. = 1.0					

BILL OF MATERIAL FOR ONE 5'-0" RAIL SECTION					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B3	5	#5	1	4'-11"	26
B4	5	#5	2	2'-8"	14
B5	5	#5	STR	4'-7"	24
REINFORCING STEEL LBS. = 64					
CLASS AA CONCRETE CU. YDS. = 0.5					

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD PRECAST CONCRETE BARRIER RAIL SECTIONS (1)

NORTH CAROLINA PROFESSIONAL SEAL 20532 ... MONDOLFI

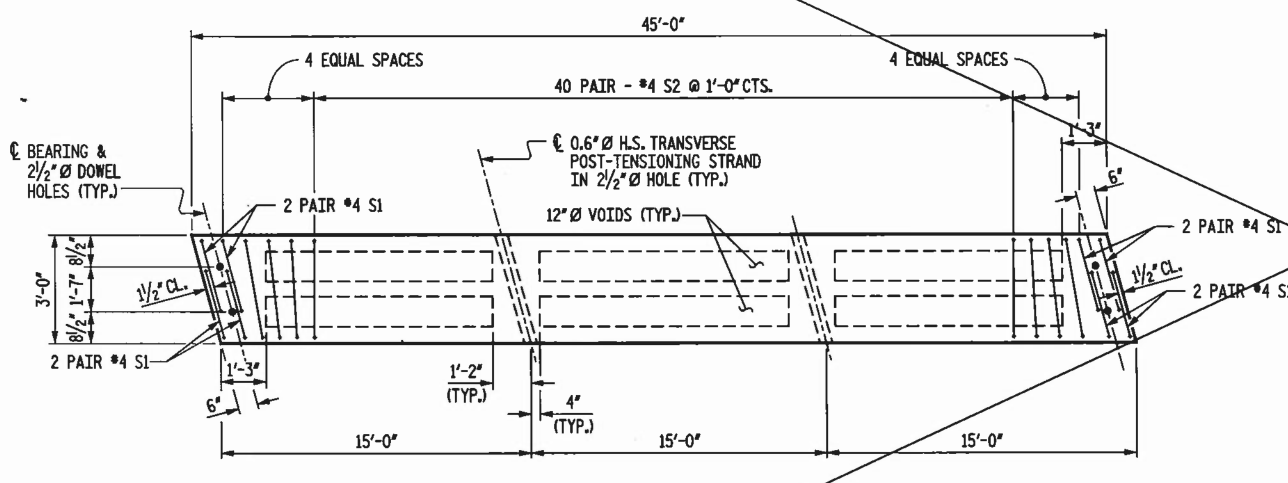
6-22-11

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

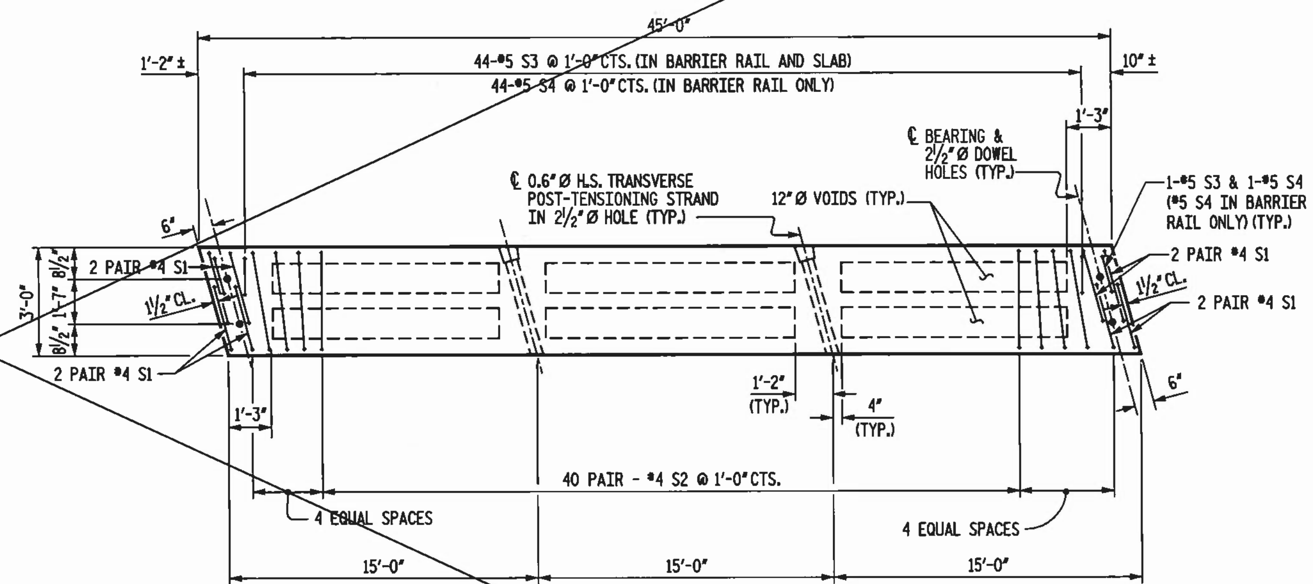
NOT TO SCALE

DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	3
1	JEM	6-20-11	3			TOTAL SHEETS
2			4			27



45' SPAN - PLAN OF INTERIOR CORED SLAB UNIT



45' SPAN - PLAN OF EXTERIOR CORED SLAB UNIT

NOTE: FOR PART PLAN SLAB, SEE SHEET 2.

(1) DELETE DRAWING.

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

(1) 3'-0" X 1'-9"
PRESTRESSED CORED SLAB UNIT

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20532 JAMES E. MONDOLFI
6-22-11

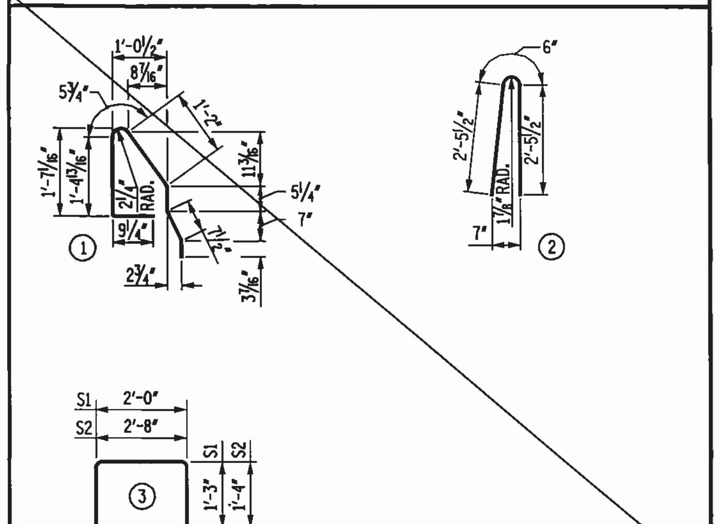
Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0268

NOT TO SCALE

DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	4
1	JEM	6-20-11	3			TOTAL SHEETS
2			4			27

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

DEAD LOAD DEFLECTION AND CAMBER

	3'-0" x 1'-9" CORED SLAB
	0.6" Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	1.167 ↑
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD ✱✱	0.161 ↓
FINAL CAMBER	1.006 ↑

✱✱ INCLUDES FUTURE WEARING SURFACE

BILL OF MATERIAL FOR ONE 45'-0" INTERIOR CORED SLAB SECTION

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	#4	STR	23'-3"	62
S1	16	#4	3	4'-6"	48
S2	92	#4	3	5'-4"	328
REINFORCING STEEL				LB.	438
5000 P.S.I. CONCRETE				C. Y.	6.4
0.6" Ø L.R. STRANDS				NO.	13

BILL OF MATERIAL FOR ONE 45'-0" EXTERIOR CORED SLAB SECTION

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	#4	STR	23'-3"	62
S1	16	#4	3	4'-6"	48
S2	92	#4	3	5'-4"	328
✱ S3	46	#5	1	5'-2"	248
REINFORCING STEEL				LB.	438
✱ EPOXY COATED REINFORCING STEEL				LB.	248
5000 P.S.I. CONCRETE				C. Y.	6.5
0.6" Ø L.R. STRANDS				NO.	13

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE 2½" Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH NON-SHRINK GROUT.

THE BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

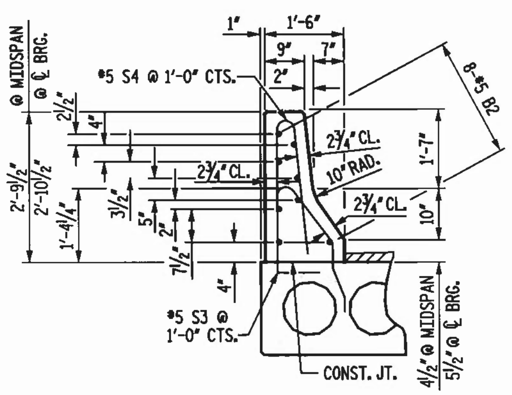
PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS.

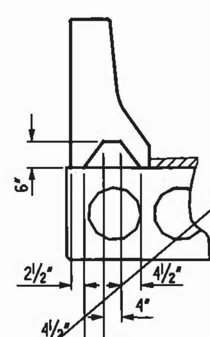
VERTICAL GROOVED CONTRACTION JOINTS, ½" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A VERTICAL CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS.

TRANSVERSE POST-TENSIONING OF THE CORED SLAB UNITS SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, EXCEPT THAT THE STRANDS SHALL BE 0.60Ø AND TENSIONED TO 43,950 POUNDS.

THE MINIMUM AND MAXIMUM HEIGHTS OF THE BARRIER RAIL ARE SHOWN. THE HEIGHT OF THE BARRIER RAIL VARIES WHILE THE TOP OF THE RAIL FOLLOWS THE PROFILE OF THE GUTTERLINE.



SECTION THRU RAIL



SECTION S-S
AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

SUMMARY FOR EXTERIOR CORED SLAB SECTIONS

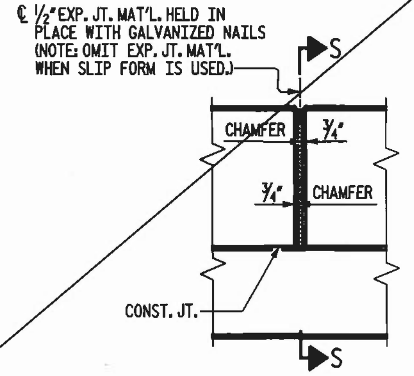
		45'-0" SPAN	TOTAL
REINFORCING STEEL	LBS.	876	876
✱EPOXY COATED REINFORCING STEEL	LBS.	496	496
5000 P.S.I. CONCRETE	C. Y.	13.0	13.0
0.6" Ø L.R. STRANDS	NO.	26	26

SUMMARY FOR INTERIOR CORED SLAB SECTIONS

		45'-0" SPAN	TOTAL
REINFORCING STEEL	LBS.	4380	4380
✱EPOXY COATED REINFORCING STEEL	LBS.	—	—
5000 P.S.I. CONCRETE	C. Y.	64.0	64.0
0.6" Ø L.R. STRANDS	NO.	130	130

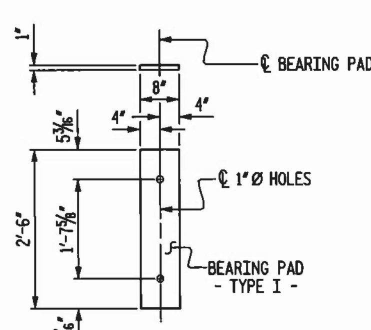
BILL OF MATERIAL FOR CONCRETE BARRIER RAIL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ B2	64	#5	STR	13'-0"	868
✱ S4	92	#5	2	5'-5"	520
✱EPOXY COATED REINFORCING STEEL				LBS.	1,388
CLASS AA CONCRETE				C. Y.	9.8
TOTAL LIN. FT. OF CONCRETE BARRIER RAIL					90.0



ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS



FIXED END
(TYPE I - 24 REQ'D.)

ELASTOMERIC BEARING DETAILS

ELASTOMER IN BEARING PAD SHALL BE 50 DUROMETER HARDNESS

CORED SLABS REQUIRED

	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR C.S.	2	45'-0"	90'-0"
INTERIOR C.S.	10	45'-0"	450'-0"

GRADE 270 STRANDS

	0.6" Ø L.R.
AREA (SQUARE INCHES)	0.217
ULTIMATE STRENGTH (LBS. PER STRAND)	58,600
APPLIED PRESTRESS (LBS. PER STRAND)	43,950

(1) DELETE DRAWING.

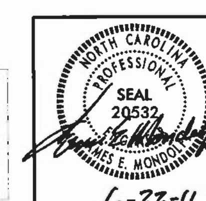
PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

(1) BILL OF MATERIALS

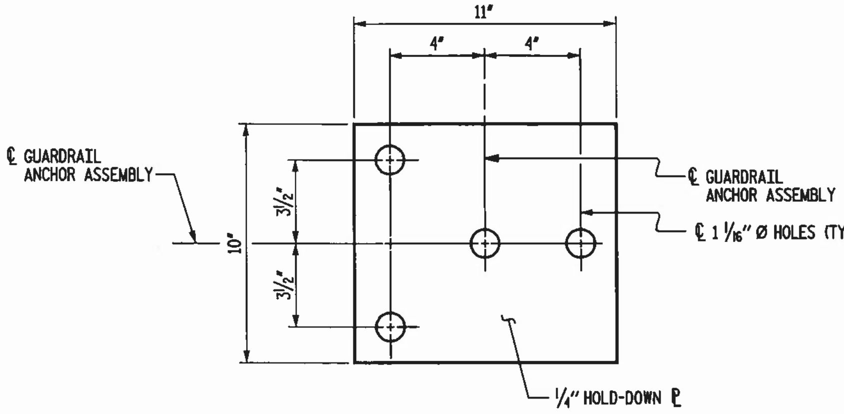
NOT TO SCALE

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

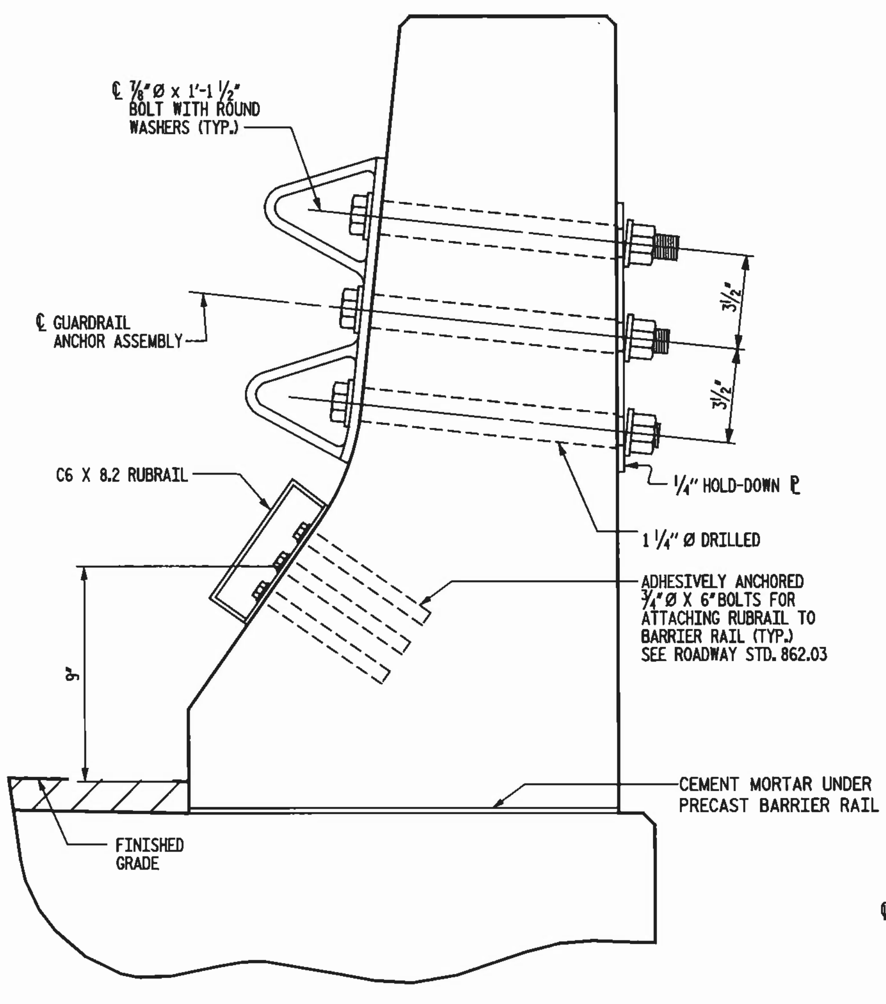


DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009

REVISIONS							SHEET NO.
NO.	BY	DATE	NO.	BY	DATE		5
1	JEM	6-20-11	3				TOTAL SHEETS
2			4				27



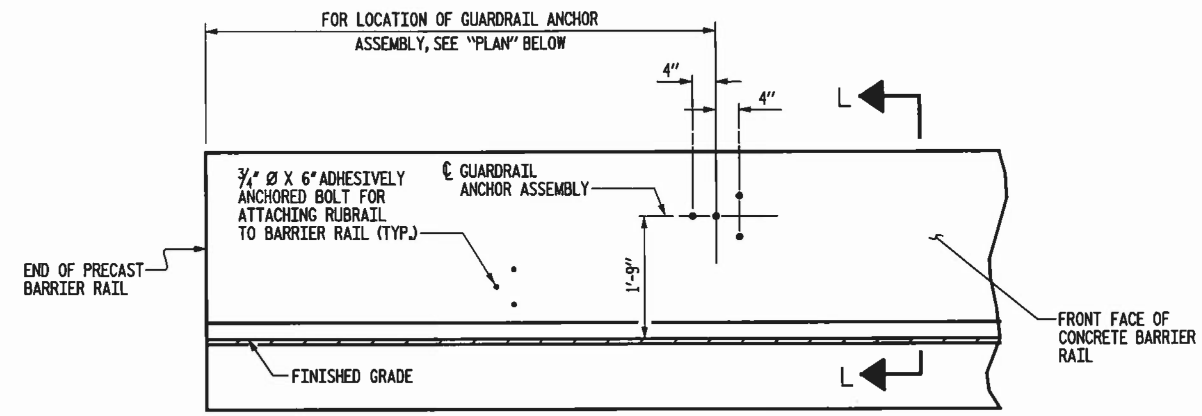
PLAN



SECTION L-L

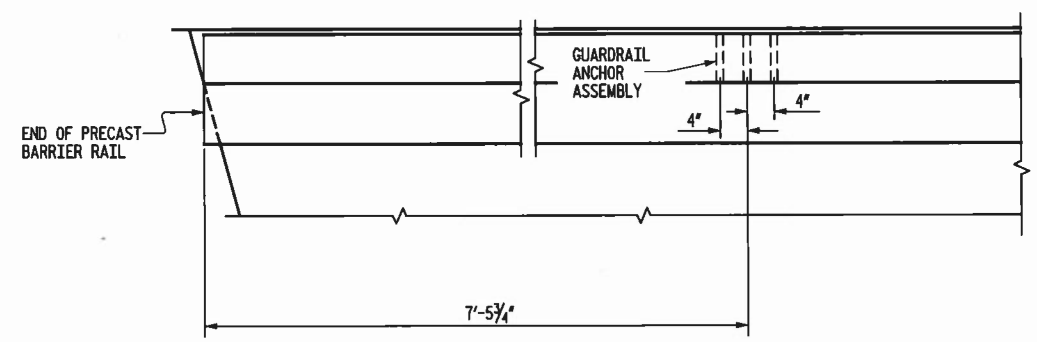
GUARDRAIL ANCHOR ASSEMBLY DETAILS

FOR CONCRETE BARRIER RAIL ONLY
(FOR LOCATION OF GUARDRAIL ANCHOR ASSEMBLY, SEE THIS SHEET)



ELEVATION

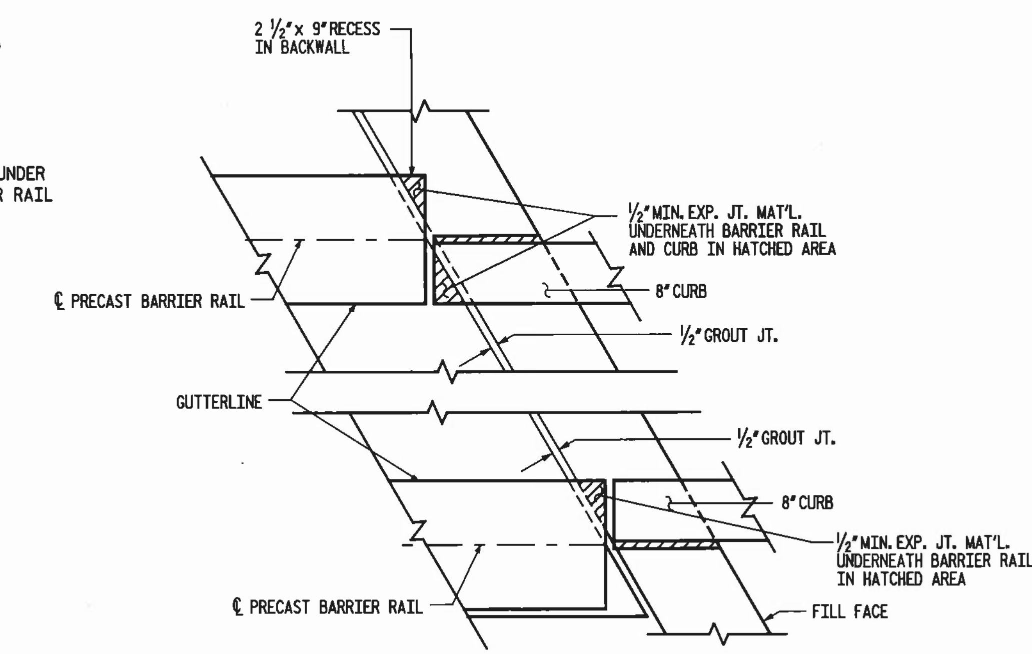
FOR LOCATION OF RUBRAIL, SEE ROADWAY STD. 862.03



PLAN

LOCATION OF ANCHORS FOR GUARDRAIL

FOR CONCRETE BARRIER RAIL ONLY
ABUTMENT #1 SHOWN, ABUTMENT #2 SIMILAR



PLAN OF BARRIER RAIL AND CURB CORED SLAB AT END BENTS

NOTES

THE GUARDRAIL ANCHOR ASSEMBLY SHALL CONSIST OF A 1/4" HOLD DOWN PLATE AND 7/8" Ø BOLTS WITH NUTS AND WASHERS, RUBRAIL, AND ADHESIVELY ANCHORED BOLTS.

THE HOLD-DOWN PLATE SHALL CONFORM TO AASHTO M270 GRADE 36. AFTER FABRICATION, THE HOLD-DOWN PLATE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111.

BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307 AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M291. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. (AT THE CONTRACTOR'S OPTION, STAINLESS STEEL BOLTS, NUTS AND WASHERS MAY BE USED AS AN ALTERNATE FOR THE 7/8" Ø GALVANIZED BOLTS, NUTS AND WASHERS. THEY SHALL CONFORM TO OR EXCEED THE MECHANICAL REQUIREMENTS OF ASTM A307. THE USE OF THIS ALTERNATE SHALL BE APPROVED BY THE ENGINEER.)

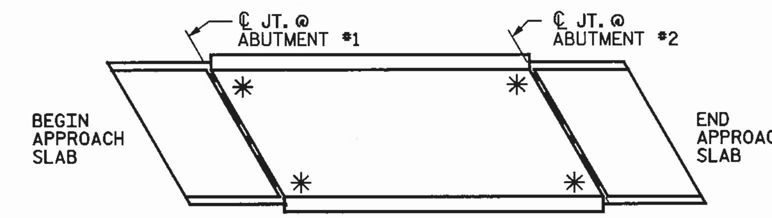
THE GUARDRAIL ANCHOR ASSEMBLY IS REQUIRED AT ALL POINTS WHERE APPROACH GUARDRAIL IS TO BE ATTACHED TO THE END OF CONCRETE BARRIER RAIL OR CONCRETE END POSTS. FOR POINTS OF ATTACHMENT, SEE SKETCH.

AFTER INSTALLATION, THE EXPOSED THREAD OF THE BOLT SHALL BE BURRED WITH A SHARP POINTED TOOL.

THE COST OF THE GUARDRAIL ANCHOR ASSEMBLY SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR CONCRETE BARRIER RAIL.

THE 1 1/4" Ø HOLES SHALL BE DRILLED WITH A CORE BIT. IMPACT TOOLS WILL NOT BE PERMITTED. ANY CONCRETE DAMAGED BY THIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

THE C6 X 8.2 RUBRAIL IS TO BE ADHESIVELY ANCHORED TO THE RAIL USING THREE 3/4" Ø X 6" BOLTS WITH WASHERS. LEVEL ONE FIELD TESTING IS REQUIRED, AND THE YIELD LOAD OF THE 3/4" Ø BOLT IS 12 KIPS. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SPECIAL PROVISIONS. SEE ROADWAY STANDARD 862.03 FOR DETAILS AND LOCATION OF THE RUBRAIL.



SKETCH SHOWING POINTS OF ATTACHMENT

✱ INDICATES POINTS OF ATTACHMENT

(1) REPLACES DRAWING 6 (6-7-11)

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE GUARDRAIL ANCHORAGE DETAILS (1)

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	6
1	JEM	6-20-11	3			TOTAL SHEETS
2			4			27

NORTH CAROLINA PROFESSIONAL SEAL 20532 JAMES E. MONDOLFI
6-22-11

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

NOT TO SCALE

DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009

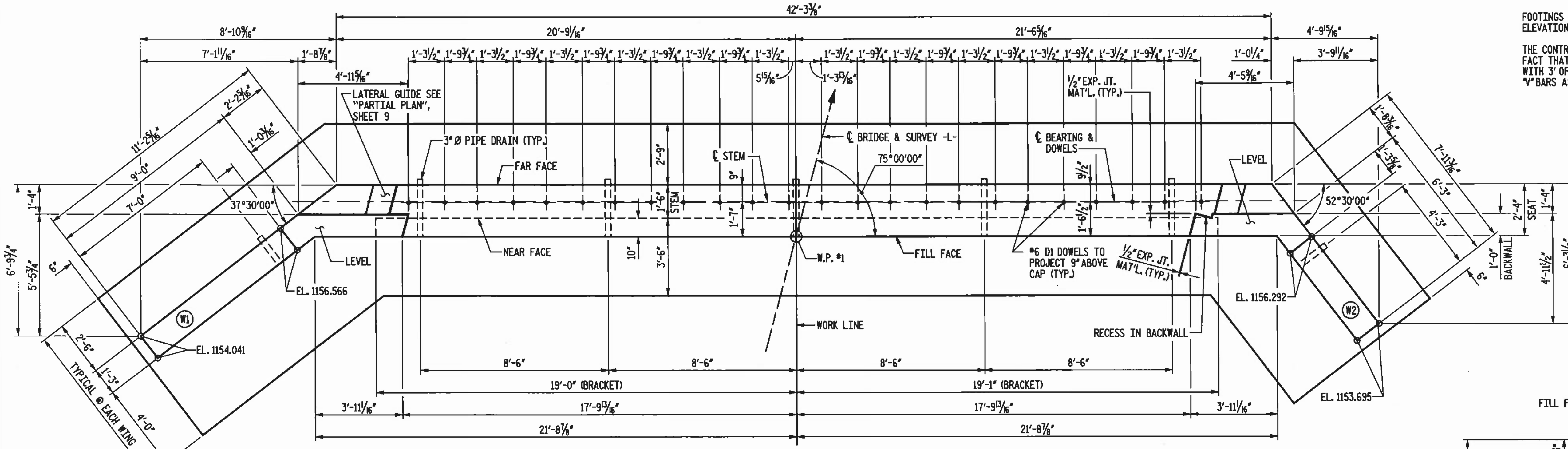
NOTES:

STIRRUPS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR DOWELS.

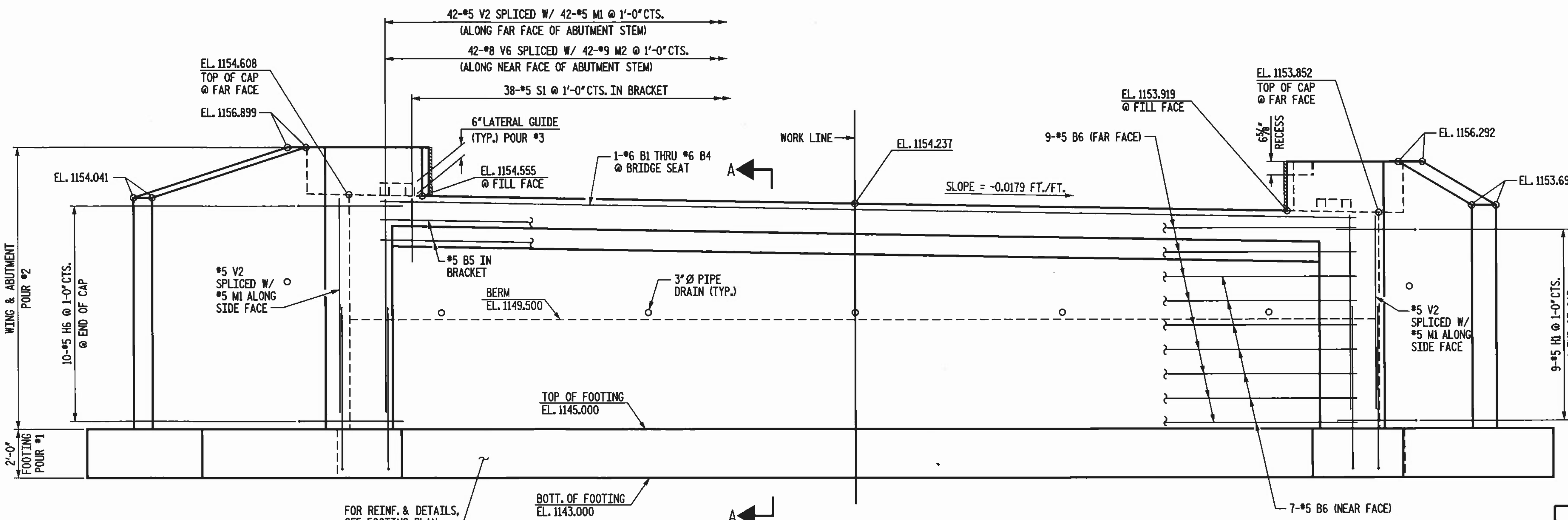
PIPE DRAINS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR REINFORCING STEEL AND DOWELS.

FOOTINGS SHALL NOT BE CONSTRUCTED AT AN ELEVATION HIGHER THAN SHOWN ON THE PLANS.

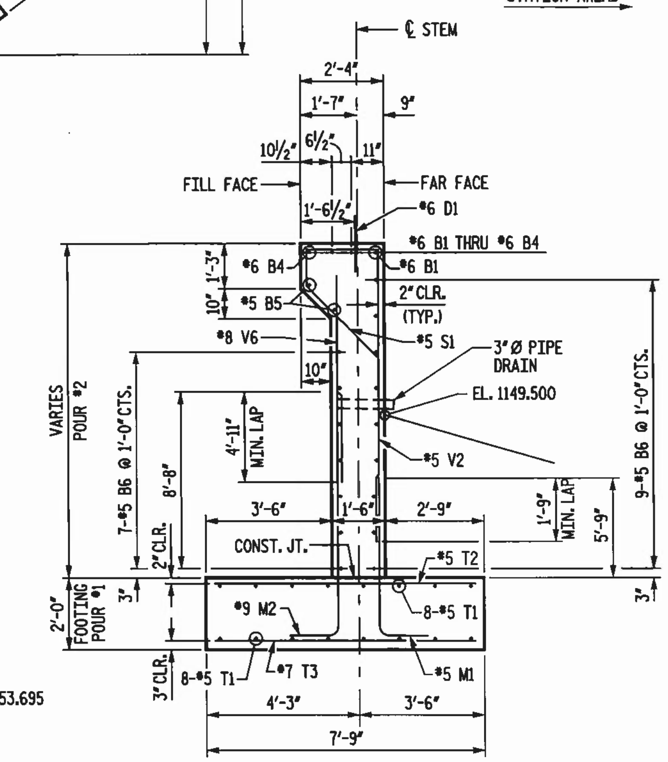
THE CONTRACTORS ATTENTION IS CALLED TO THE FACT THAT THE WALL "V" BARS ARE DETAILED WITH 3' OF ADDITIONAL LENGTH. FIELD CUT "V" BARS AS NEEDED.



PLAN



ELEVATION



SECTION A-A

(1) REPLACES DRAWING 7 (6-7-11)

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

(1) SUBSTRUCTURE ABUTMENT NO. 1

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0268

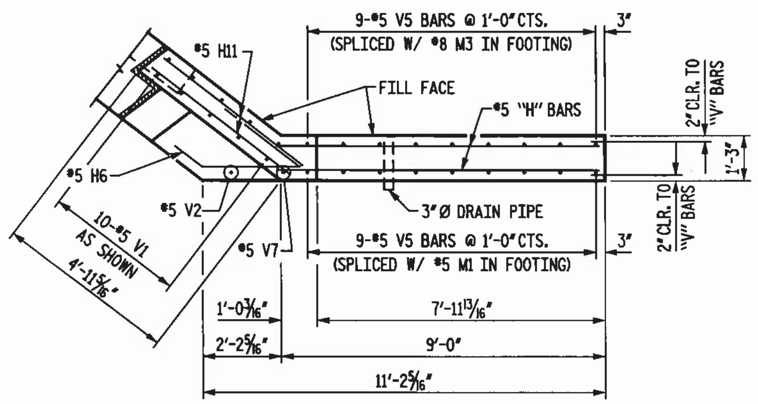
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20527 JAMES E. MONDOLFI
6-22-11

NOT TO SCALE

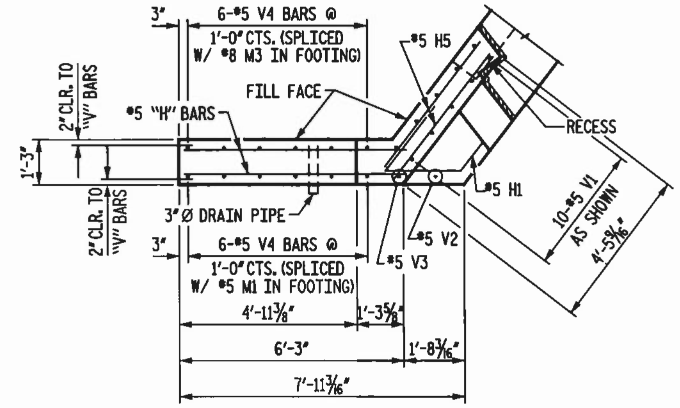
DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009

REVISIONS							SHEET NO.
NO.	BY	DATE	NO.	BY	DATE		7
1	JEM	6-20-11	3				TOTAL SHEETS
2			4				27

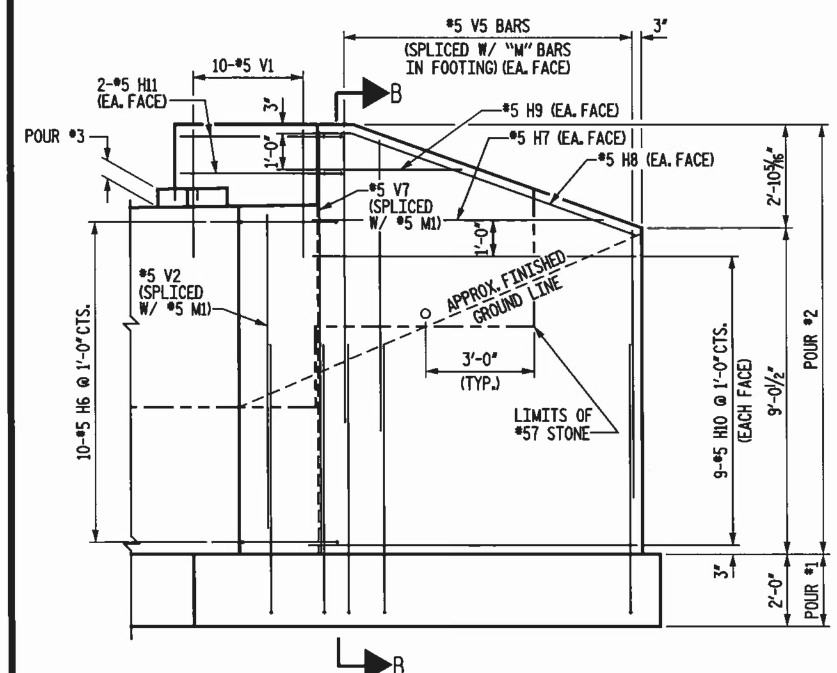
PLOT: 6/22/2011 11:49:32 AM Florence & Hutcheson, Inc.



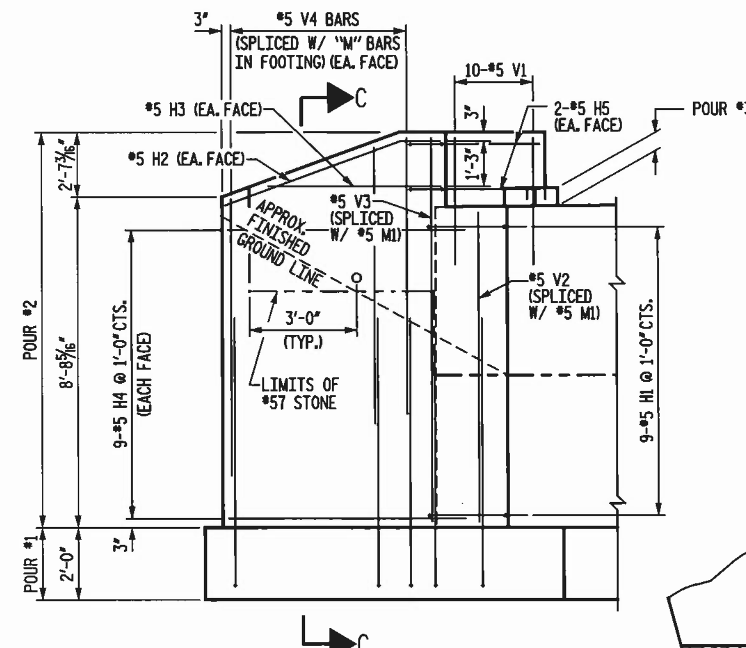
PLAN OF WING - W1



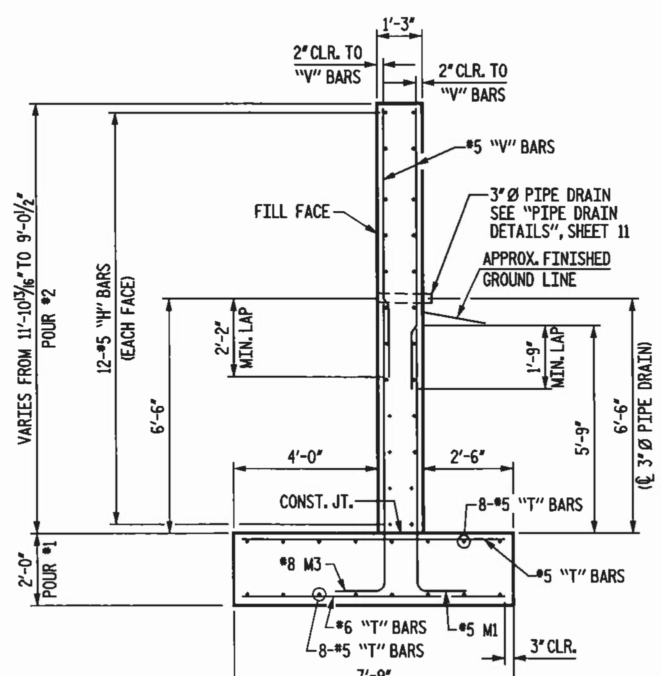
PLAN OF WING - W2



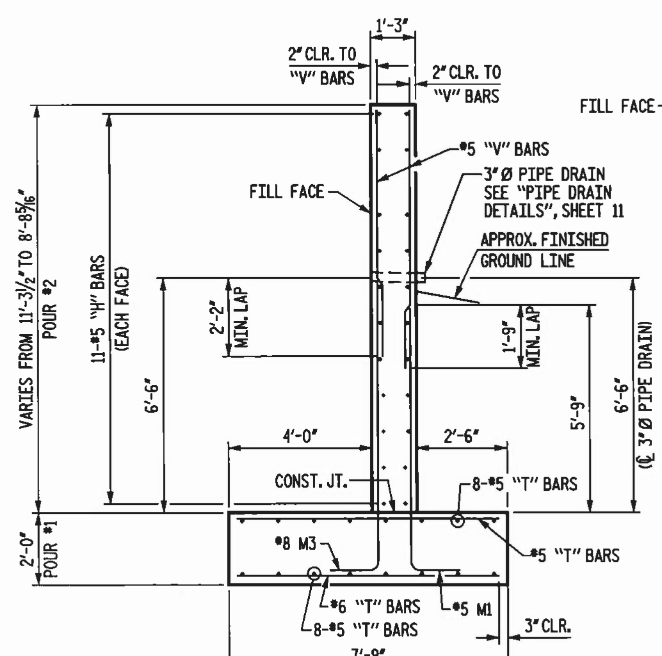
ELEVATION OF WING - W1



ELEVATION OF WING - W2



SECTION B-B

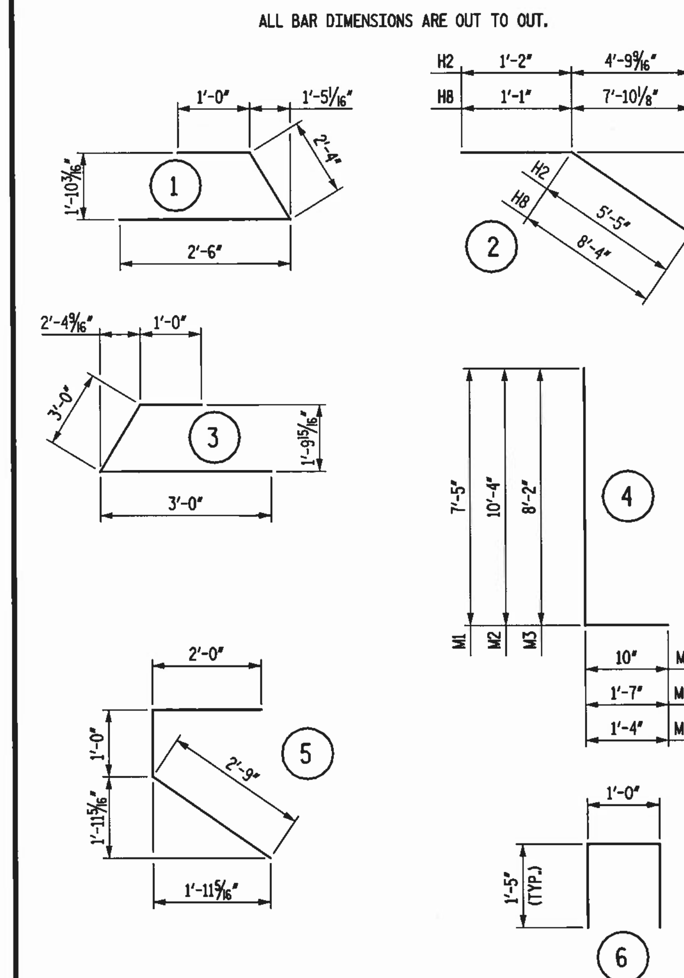


SECTION C-C

NOT TO SCALE

BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.

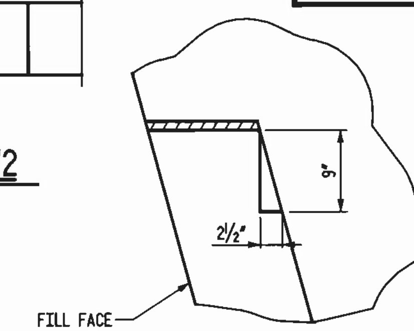


BILL OF MATERIAL

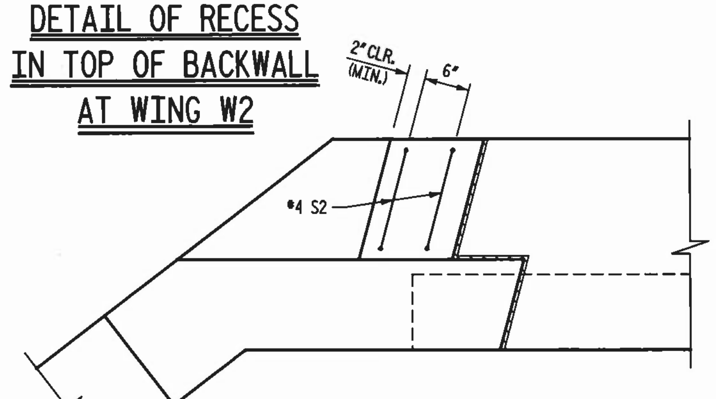
ABUTMENT NO. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	1	6	STR	42'-3"	63
B2	1	6	STR	43'-8"	66
B3	1	6	STR	44'-10"	67
B4	1	6	STR	46'-2"	69
B5	2	5	STR	44'-0"	83
B6	16	5	STR	42'-3"	705
D1	24	6	STR	1'-6"	54
H1	9	5	1	5'-10"	55
H2	2	5	2	6'-7"	14
H3	2	5	STR	3'-9"	8
H4	18	5	STR	6'-2"	116
H5	4	5	STR	4'-3"	18
H6	10	5	3	7'-0"	73
H7	2	5	STR	8'-0"	17
H8	2	5	2	9'-5"	20
H9	2	5	STR	4'-1"	9
H10	18	5	STR	8'-11"	167
H11	4	5	STR	4'-8"	19
M1	61	5	4	8'-3"	525
M2	42	9	4	11'-11"	1702
M3	15	8	4	9'-6"	380
S1	38	5	5	5'-9"	228
S2	4	4	6	3'-10"	10
T1	16	5	STR	43'-10"	731
T2	44	5	STR	7'-3"	333
T3	44	7	STR	7'-3"	652
T4	6	5	STR	9'-10"	62
T5	10	5	STR	8'-3"	86
T6	6	5	STR	12'-9"	80
T7	10	5	STR	11'-2"	116
T8	16	5	STR	7'-3"	121
T9	7	5	STR	3'-6"	26
T10	16	6	STR	7'-3"	174
T11	7	6	STR	3'-6"	37
V1	20	5	STR	3'-6"	73
V2	44	5	STR	8'-8"	398
V3	1	5	STR	10'-10"	11
V4	12	5	STR	10'-3"	128
V5	18	5	STR	10'-9"	202
V6	42	8	STR	8'-9"	981
V7	1	5	STR	11'-7"	12
REINFORCING STEEL TOTAL				8,691	LB

POUR #1	34.6	CY
POUR #2	34.4	CY
POUR #3	0.1	CY
TOTAL	69.1	CY



DETAIL OF RECESS IN TOP OF BACKWALL AT WING W2



PARTIAL PLAN

(1) REPLACES DRAWING 9 (6-7-11)

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

(1) SUBSTRUCTURE
ABUTMENT NO. 1
WING DETAILS

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

NORTH CAROLINA PROFESSIONAL SEAL 20532 JAMES E. MONDOLFI
6-22-11

REVISIONS							
NO.	BY	DATE	NO.	BY	DATE	SHEET NO.	9
1	JEM	6-20-11	3			TOTAL SHEETS	27
2			4				

DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009

PLOT: 6/22/2011 11:48:41 AM Florence & Hutcheson, Inc.

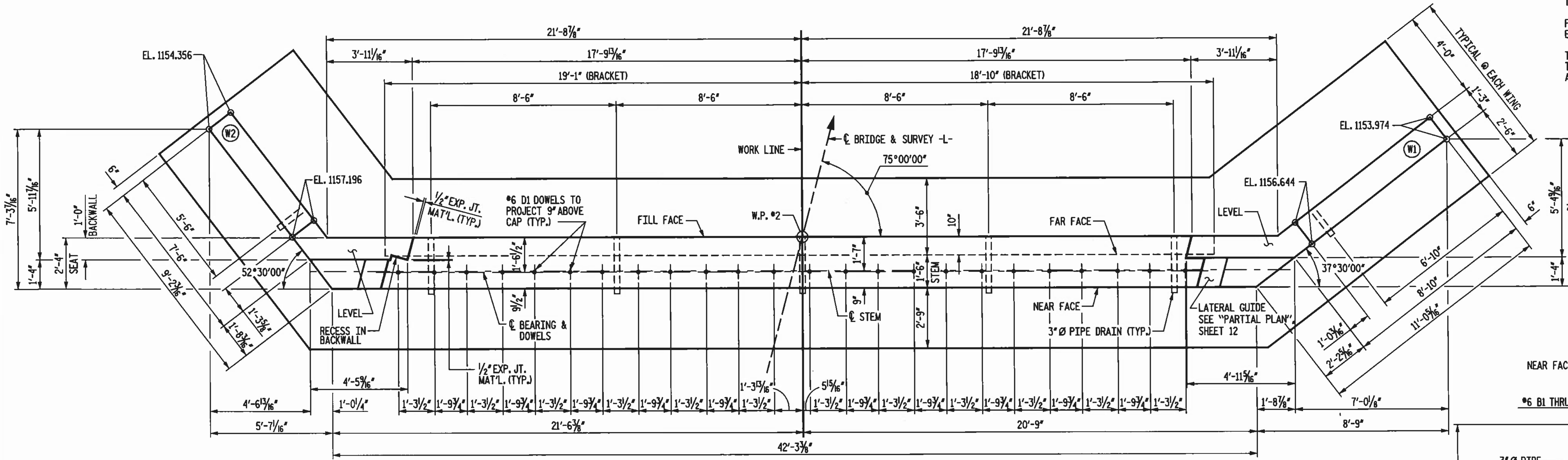
NOTES:

STIRRUPS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR DOWELS.

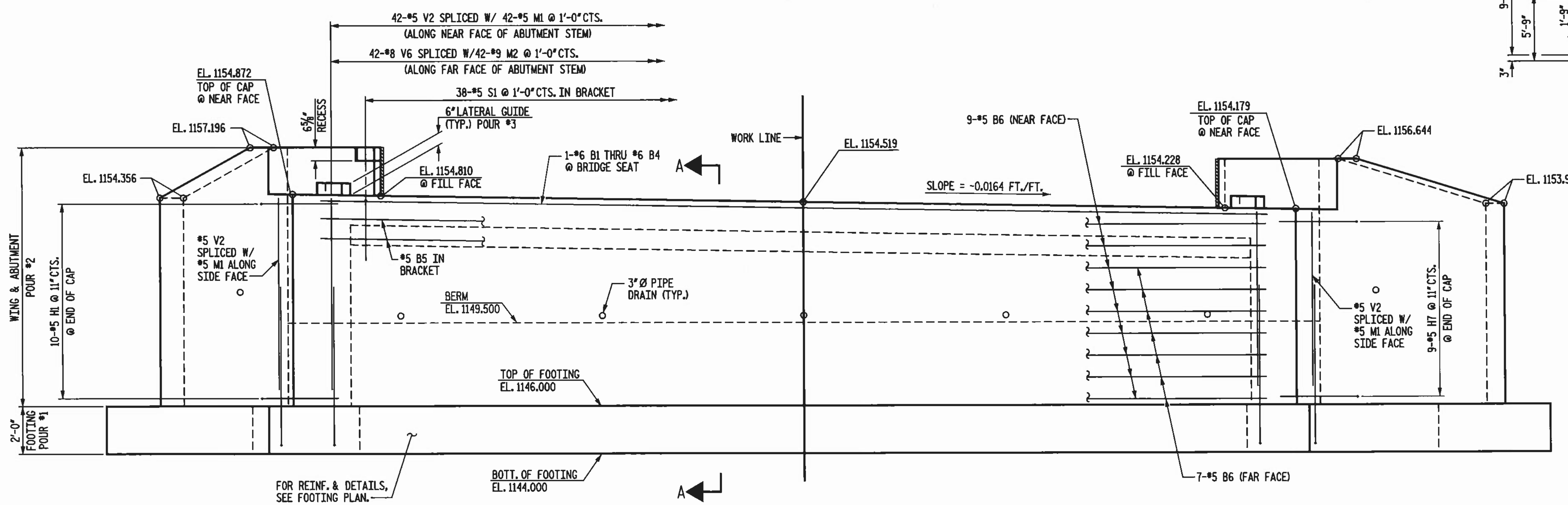
PIPE DRAINS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR REINFORCING STEEL AND DOWELS.

FOOTINGS SHALL NOT BE CONSTRUCTED AT AN ELEVATION HIGHER THAN SHOWN ON THE PLANS.

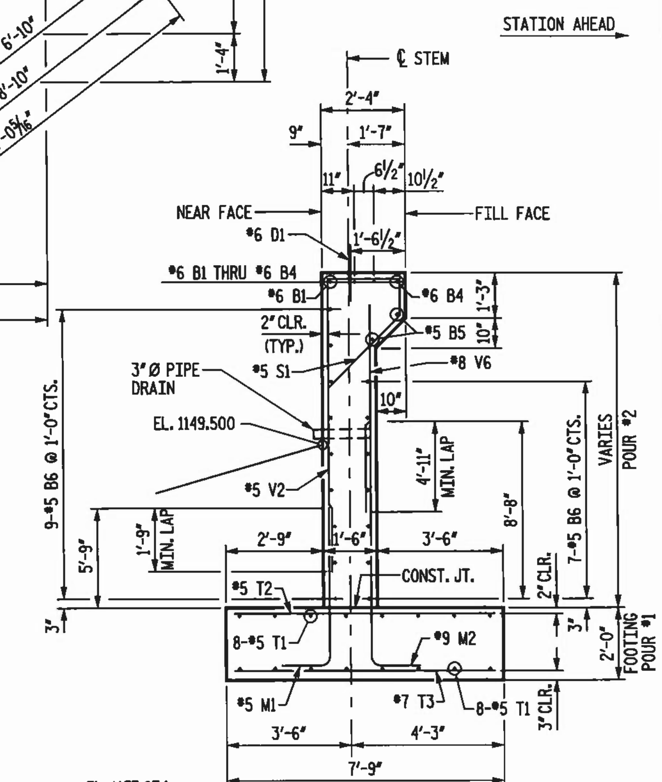
THE CONTRACTORS ATTENTION IS CALLED TO THE FACT THAT THE WALL "V" BARS ARE DETAILED WITH 3' OF ADDITIONAL LENGTH. FIELD CUT "V" BARS AS NEEDED.



PLAN



ELEVATION



SECTION A-A

(1) REPLACES DRAWING 10 (6-7-11)

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

(1) SUBSTRUCTURE ABUTMENT NO. 2

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	10
1	JEM	6-20-11	3			TOTAL SHEETS
2			4			27

NORTH CAROLINA PROFESSIONAL SEAL 20592 ENGINEER JAMES E. MONDOLFI
6-22-11

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingston Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

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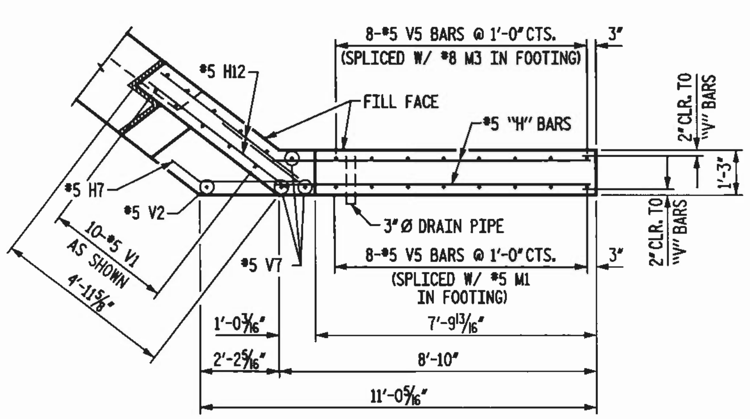
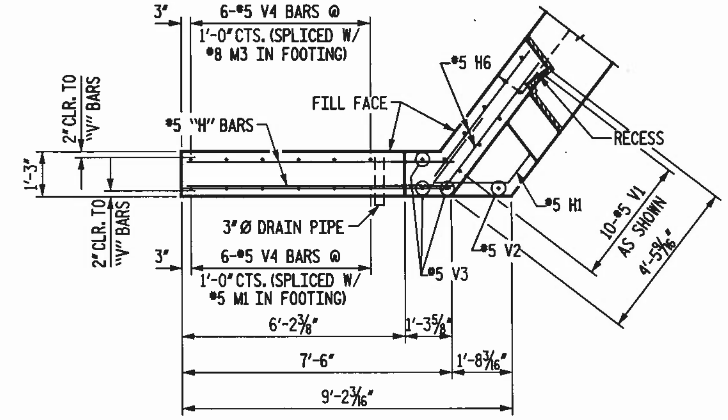
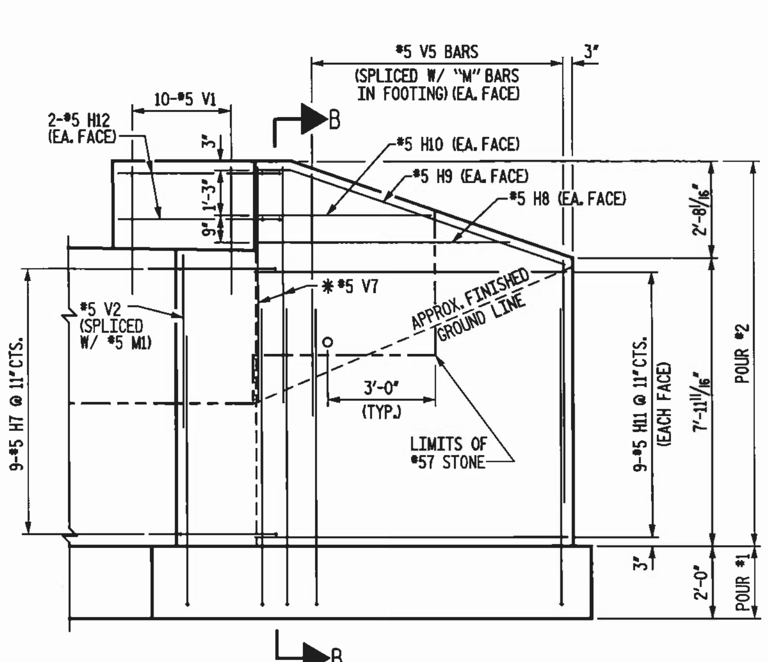
DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009



PLAN OF WING - W1

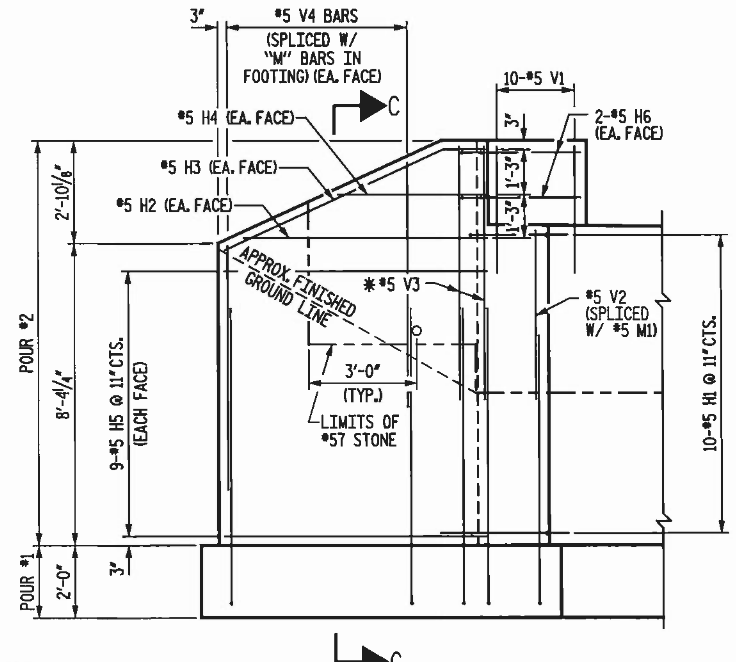


PLAN OF WING - W2

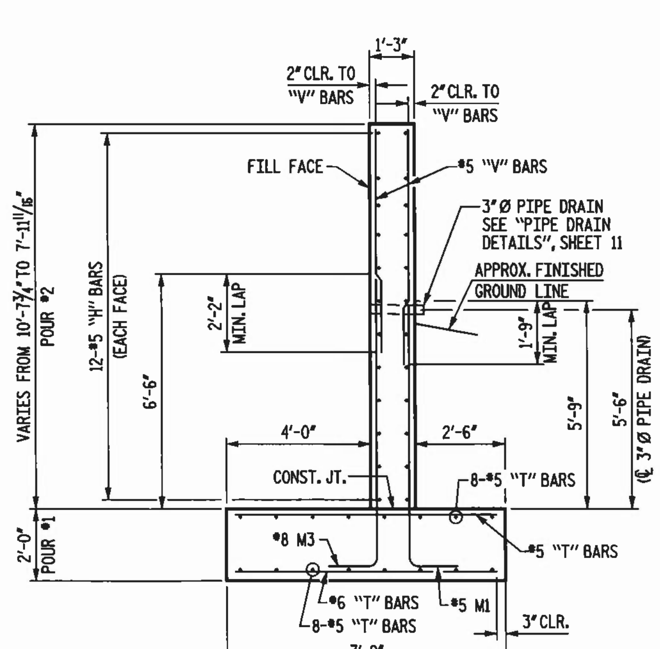


ELEVATION OF WING - W1

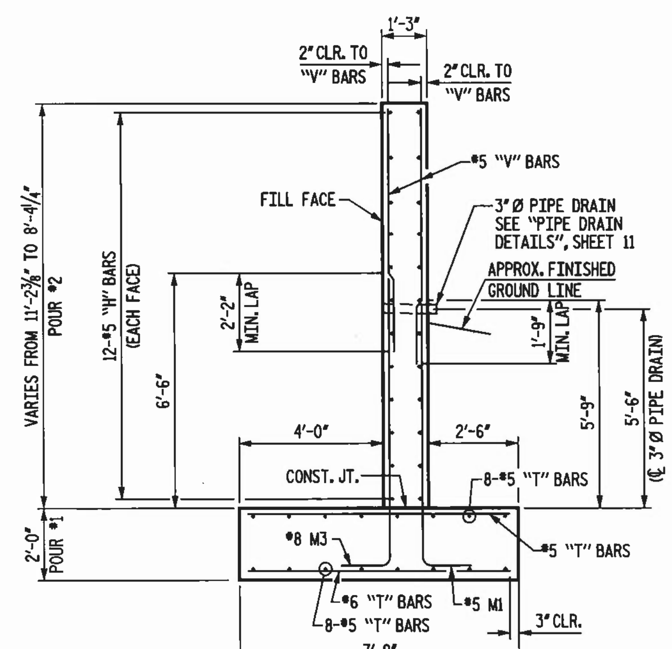
✱SPLICED W/ #5 M1 (NEAR FACE) OR #8 M3 (FILL FACE)



ELEVATION OF WING - W2



SECTION B-B

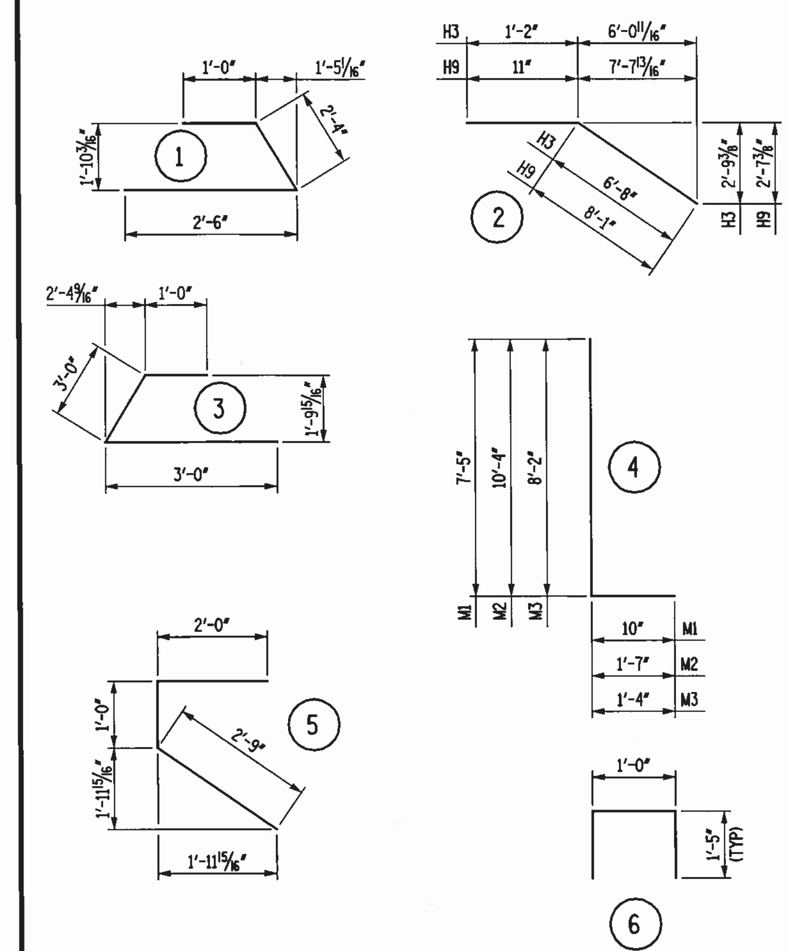


SECTION C-C

NOT TO SCALE

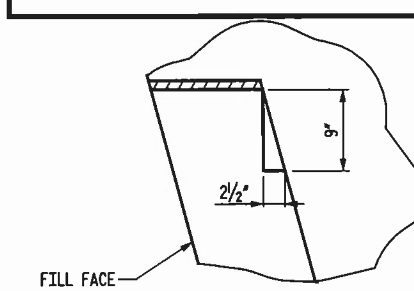
BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.

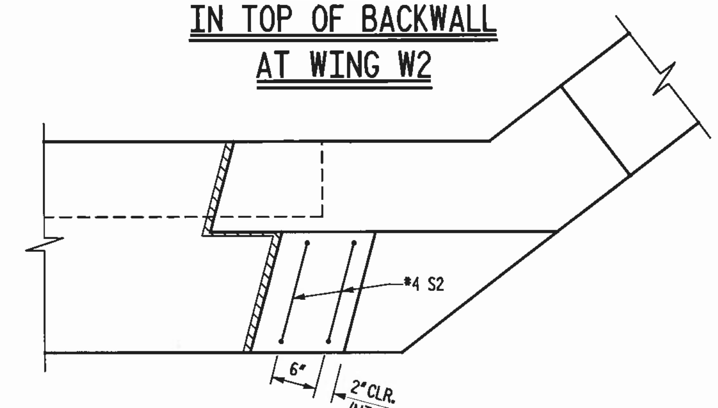


BILL OF MATERIAL					
ABUTMENT NO. 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	1	6	STR	42'-3"	63
B2	1	6	STR	43'-8"	66
B3	1	6	STR	44'-10"	67
B4	1	6	STR	46'-2"	69
B5	2	5	STR	40'-0"	83
B6	16	5	STR	42'-3"	705
D1	24	6	STR	1'-6"	54
H1	10	5	1	5'-10"	61
H2	2	5	STR	6'-8"	14
H3	2	5	2	7'-10"	16
H4	2	5	STR	4'-1"	9
H5	18	5	STR	7'-3"	136
H6	4	5	STR	4'-4"	18
H7	9	5	3	7'-0"	66
H8	2	5	STR	7'-1"	15
H9	2	5	2	9'-0"	19
H10	2	5	STR	4'-10"	10
H11	18	5	STR	8'-8"	163
H12	4	5	STR	4'-9"	20
M1	62	5	4	8'-3"	533
M2	42	9	4	11'-11"	1702
M3	16	8	4	9'-6"	406
S1	38	5	5	5'-9"	228
S2	4	4	6	3'-10"	10
T1	16	5	STR	43'-10"	731
T2	44	5	STR	7'-3"	333
T3	44	7	STR	7'-3"	652
T4	6	5	STR	10'-4"	65
T5	10	5	STR	8'-10"	92
T6	10	5	STR	11'-0"	115
T7	6	5	STR	12'-7"	79
T8	17	5	STR	7'-3"	129
T9	7	5	STR	3'-6"	26
T10	17	6	STR	7'-3"	185
T11	7	6	STR	3'-6"	37
V1	20	5	STR	3'-6"	73
V2	44	5	STR	7'-9"	356
V3	3	5	STR	10'-0"	10
V4	12	5	STR	9'-9"	122
V5	16	5	STR	9'-8"	161
V6	42	8	STR	8'-0"	897
V7	3	5	STR	9'-6"	30
REINFORCING STEEL TOTAL				8,626	LB

POUR #1	35.2 CY
POUR #2	32.5 CY
POUR #3	0.1 CY
TOTAL	67.8 CY



DETAIL OF RECESS IN TOP OF BACKWALL AT WING W2



PARTIAL PLAN

(1) REPLACES DRAWING 12 (6-7-11)

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

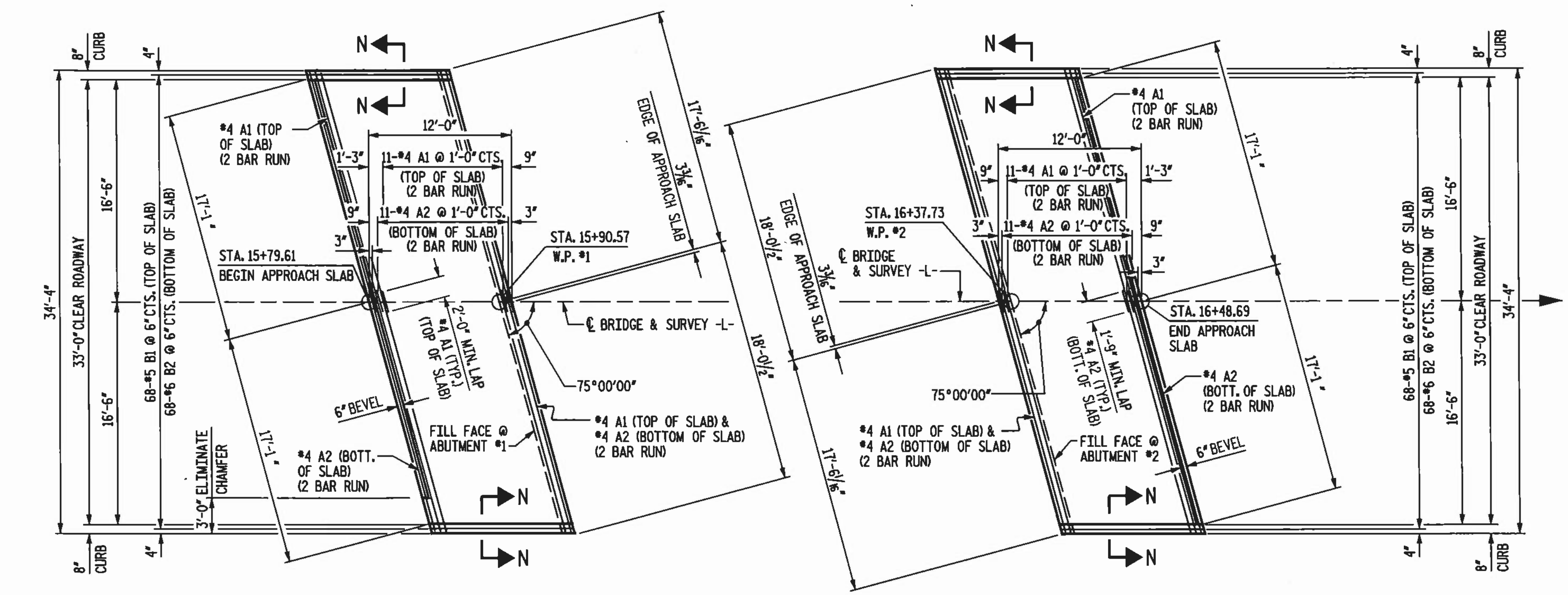
(1) SUBSTRUCTURE ABUTMENT NO. 2 WING DETAILS

REVISIONS							SHEET NO.
NO.	BY	DATE	NO.	BY	DATE		12
1	JEM	6-20-11	3				TOTAL SHEETS
2			4				27

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

NORTH CAROLINA PROFESSIONAL SEAL 20532 ENGINEER JAMES E. MONDOLFI
6-22-11

DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009



PLAN OF APPROACH SLABS

DIMENSIONS ARE TYPICAL FOR BOTH APPROACH SLABS

NOTES

FOR BRIDGE APPROACH FILL INCLUDING FABRIC AND #78M STONE BACKFILL, SEE ROADWAY STANDARD DRAWINGS.

APPROACH SLAB SHALL NOT BE CONSTRUCTED PRIOR TO INSTALLATION OF CORED SLAB.

FABRIC SHALL BE TYPE 1 ENGINEERING FABRIC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1056.

#78M STONE BACKFILL (CLASS V SELECT MATERIAL) SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 1016.

#78M STONE BACKFILL IS TO BE CONTINUOUS ALONG FILL FACE OF ABUTMENT FROM OUTSIDE EDGE TO OUTSIDE EDGE OF APPROACH SLAB.

#78 STONE BACKFILL AND FABRIC SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR APPROACH SLABS.

AREA BETWEEN THE WINGWALL AND APPROACH SLAB SHALL BE GRADED TO DRAIN THE WATER AWAY FROM THE FILL FACE OF THE BRIDGE AND SHALL BE PAVED.

THE 6" COMP. A.B.C. SHALL BE FLUSH WITH THE ROADWAY END OF THE APPROACH SLAB AND SHALL EXTEND 1'-0" OUTSIDE OF EACH EDGE OF THE APPROACH SLAB.

THE CONTRACTOR MAY USE 4" TYPE B-25.0B ASPHALT CONCRETE BASE COURSE IN LIEU OF 6" COMP. A.B.C. IF THIS OPTION IS USED, THE BASE COURSE SHALL BE FLUSH WITH THE ROADWAY END OF THE APPROACH SLAB, AND THE WIDTH SHALL BE THE SAME AS THAT OF THE APPROACH SLAB.

THE CONTRACTOR MAY USE 5" CLASS "A" CONCRETE BASE IN LIEU OF 6" COMP. A.B.C. IF THIS OPTION IS USED, THE CONCRETE BASE SHALL BE FLUSH WITH THE ROADWAY END OF THE APPROACH SLAB, AND THE WIDTH SHALL BE THE SAME AS THAT OF THE APPROACH SLAB. THE CONCRETE SHALL BE FINISHED TO A SMOOTH SURFACE AND A LAYER OF 30 LB ROOFING FELT SHALL BE PLACED BETWEEN THE CONCRETE BASE AND THE APPROACH SLAB TO PREVENT BOND. THE APPROACH SLAB SHALL NOT BE CAST UNTIL THE CONCRETE BASE HAS REACHED AN AGE OF THREE CURING DAYS.

FOR JOINT DETAILS, SEE "PRESTRESSED CONCRETE CORED SLAB UNIT" SHEETS.

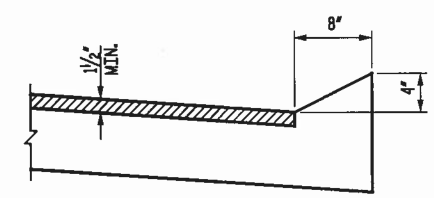
THE JOINT AT THE ABUTMENT SHALL BE GROUTED AS SOON AS PRACTICAL AFTER THE CONSTRUCTION OF THE APPROACH SLABS.

APPROACH SLAB GROOVING IS NOT REQUIRED.

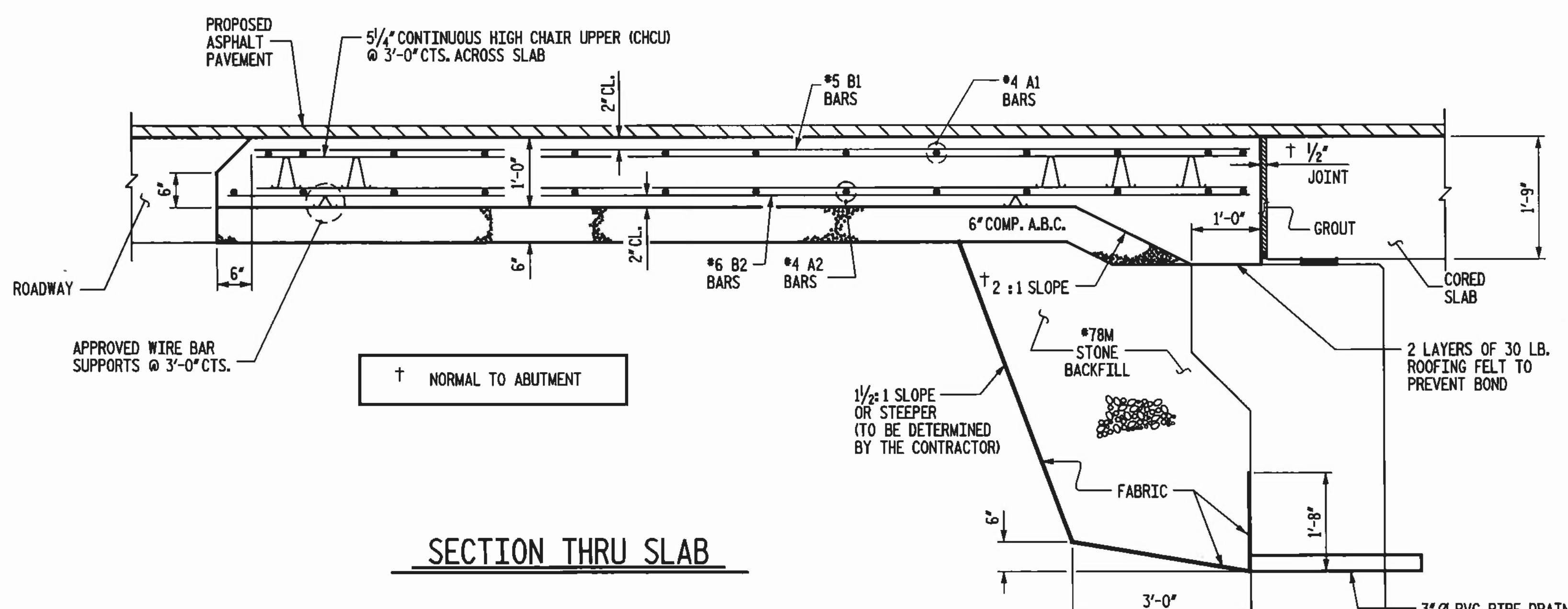
BILL OF MATERIAL

APPROACH SLAB FOR ONE (2 REQUIRED)

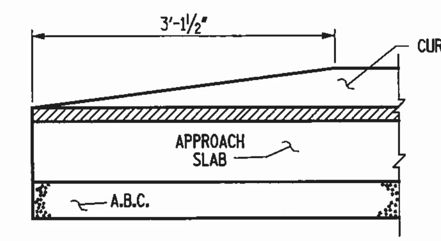
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*A1	26	#4	STR	18'-7"	323
A2	26	#4	STR	18'-5"	320
*B1	68	#5	STR	11'-2"	792
B2	68	#6	STR	11'-7"	1,183
REINFORCING STEEL				LBS.	1,503
* EPOXY COATED REINFORCING STEEL				LBS.	1,115
CLASS AA CONCRETE				C.Y.	18.0



SECTION N-N



SECTION THRU SLAB



END OF CURB WITHOUT SHOULDER BERM GUTTER

CURB DETAILS

NOT TO SCALE

(1) REPLACES DRAWING 13 (6-7-11)

PROJECT NO. 42575
COUNTY: BURKE
STATION: 16+14.15
REPLACES BRIDGE NO. 307

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

(1) APPROACH SLAB
32'-10" CLEAR ROADWAY
75° SKEW
(SUB REGIONAL TIER)

Florence & Hutcheson
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No: F-0258

NORTH CAROLINA PROFESSIONAL SEAL 20532 JAMES E. MONDOLFI
6-22-11

REVISIONS							
NO.	BY	DATE	NO.	BY	DATE	SHEET NO.	13
1	JEM	6-20-11	3			TOTAL SHEETS	27
2			4				

DRAWN BY: B.L. MARIOTTE DATE: NOV 2009
CHECKED BY: J.E. MONDOLFI DATE: NOV 2009

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 22, 2011

MEMORANDUM TO: Garry L. Moore
Division 13 Bridge Engineer

FROM: Roger D. Bryan
Division 13 Environmental Officer

SUBJECT: BK-5124
Bridge 307, SR 1924
Burke County

Following a field survey of proposed project during May 2010, I determined that the project will not require Corps of Engineer 404/401 permits or trout buffer variance. No threatened or endangered species will be affected by the project. The PCE Document is attached for your file.

Please proceed with the project at your convenience.

If you have any questions, give me a call at (828) 251-6171.

cc: J. J. Swain, Jr., P.E.
Ed Ingle, CPESC

Division Thirteen Office
Phone: 828/251-6171

Post Office Box 3279
Office of the Division Engineer
www.ncdot.gov/doh/operations/division13

Asheville, NC 28802
Fax: 828/251-6709

CATEGORICAL EXCLUSION ACTION CLASSIFICATION FORM

TIP Project No.	BK-5124
State Project No.	42575.1.1
Federal Project No.	

A. Project Description: (Include project scope and location and refer to the attached project location map.)

The project will replace Bridge #307 consisting of a single 32' span on I-beams and concrete abutments with a 45' single span cored slab bridge. The bridge is located on SR 1924 across an unnamed tributary to Henry Fork, Burke County, NC. Traffic will be maintained with an off-site detour during construction.

B. Purpose and Need:

To replace a structurally deficient bridge.

C. Proposed Improvements:

Circle one or more of the following Type II improvements which apply to the project:

1. Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (e.g., parking, weaving, turning, climbing).

   a. Restoring, Resurfacing, Rehabilitating, and Reconstructing pavement (3R and 4R improvements)
   b. Widening roadway and shoulders without adding through lanes
   c. Modernizing gore treatments
   d. Constructing lane improvements (merge, auxiliary, and turn lanes)
   e. Adding shoulder drains
   f. Replacing and rehabilitating culverts, inlets, and drainage pipes,
   g. Providing driveway pipes
   h. Performing minor bridge widening (less than one through lane)

2. Highway safety or traffic operations improvement projects including the installation of ramp metering control devices and lighting.

   a. Installing ramp metering devices
   b. Installing lights
   c. Adding or upgrading guardrail
   d. Installing safety barriers including Jersey type barriers and pier protection
   e. Installing or replacing impact attenuators
   f. Upgrading medians including adding or upgrading median barriers
   g. Improving intersections including relocation and/or realignment
   h. Making minor roadway realignment
   i. Channelizing traffic

j. Performing clear zone safety improvements including removing hazards and flattening slopes
k. Implementing traffic aid systems, signals, and motorist aid
l. Installing bridge safety hardware including bridge rail retrofit

3. Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings.

a. Rehabilitating, reconstructing, or replacing bridge approach slabs
b. Rehabilitating or replacing bridge decks
c. Rehabilitating bridges including painting (no red lead paint), scour repair, fender systems, and minor structural improvements
d. Replacing a bridge (structure and/or fill)

4. Transportation corridor fringe parking facilities.

5. Construction of new truck weigh stations or rest areas.

6. Approvals for disposal of excess right-of-way or for joint or limited use of right-of-way, where the proposed use does not have significant adverse impacts.

7. Approvals for changes in access control.

8. Construction of new bus storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and located on or near a street with adequate capacity to handle anticipated bus and support vehicle traffic.

9. Rehabilitation or reconstruction of existing rail and bus buildings and ancillary facilities where only minor amounts of additional land are required and there is not a substantial increase in the number of users.

10. Construction of bus transfer facilities (an open area consisting of passenger shelters, boarding areas, kiosks and related street improvements) when located in a commercial area or other high activity center in which there is adequate street capacity for projected bus traffic.

11. Construction of rail storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and where there is no significant noise impact on the surrounding community.

12. Acquisition of land for hardship or protective purposes, advance land acquisition loans under section 3(b) of the UMT Act. Hardship and protective buying will be permitted only for a particular parcel or a limited number of parcels. These types of land acquisition qualify for a CE only where the acquisition will not limit the evaluation of alternatives, including shifts in alignment for planned construction projects, which may be required in the NEPA process. No project development on such land may proceed until the NEPA process has been completed.

D. Special Project Information: (Include Environmental Commitments and Permits Required.)

No environmental commitments or permits are required for the project.

E. Threshold Criteria

The following evaluation of threshold criteria must be completed for Type II actions

ECOLOGICAL		YES	NO
(1)	Will the project have a substantial impact on any Unique or important natural resource?	☐	X
(2)	Does the project involve habitat where federally Listed endangered or threatened species may occur?	☐	X
(3)	Will the project affect anadromous fish?	☐	X
(4)	If the project involves wetlands, is the amount of Permanent and/or temporary wetland taking less than One-third (1/3) of an acre and have all practicable measures To avoid and minimize wetland takings been evaluated?	N/A	☐
(5)	Will the project require the use of U. S. Forest Service lands?	☐	X
(6)	Will the quality of adjacent water resources be adversely Impacted by proposed construction activities?	☐	X
(7)	Does the project involve waters classified as Outstanding Water Resources (OWR) and/or High Quality Waters (HQW)?	☐	X
(8)	Will the project require fill in waters of the United States In any of the designated mountain trout counties?	☐	X
(9)	Does the project involve any known underground storage Tanks (UST's) or hazardous materials sites?	☐	X

PERMITS AND COORDINATION		YES	NO
(10)	If the project is located within a CAMA county, will the project significantly affect the coastal zone and/or any "Area of Environmental Concern" (AEC)?	☐	N/A

		YES	NO
(11)	Does the project involve Coastal Barrier Resources Act resources?		X
(12)	Will a U. S. Coast Guard permit be required?		X
(13)	Will the project result in the modification of any existing regulatory floodway?		X
(14)	Will the project require any stream relocations or channel changes?		X

SOCIAL, ECONOMIC, AND CULTURAL RESOURCES		YES	NO
(15)	Will the project induce substantial impacts to planned growth or land use for the area?		X
(16)	Will the project require the relocation of any family or business?		X
(17)	Will the project have a disproportionately high and adverse human health and environmental effect on any minority or low-income population?		X
(18)	If the project involves the acquisition of right of way, is the amount of right of way acquisition considered minor?	X	
(19)	Will the project involve any changes in access control?		X
(20)	Will the project substantially alter the usefulness and/or land use of adjacent property?		X
(21)	Will the project have an adverse effect on permanent local traffic patterns or community cohesiveness?		X
(22)	Is the project included in an approved thoroughfare plan and/or Transportation Improvement Program (and is, therefore, in conformance with the Clean Air Act of 1990)?	X	
(23)	Is the project anticipated to cause an increase in traffic volumes?		X

SOCIAL, ECONOMIC, AND CULTURAL RESOURCES		YES	NO
(24)	Will traffic be maintained during construction using existing roads, staged construction, or on-site detours?	X	
(25)	If the project is a bridge replacement project, will the bridge be replaced at its existing location (along the existing facility) and will all construction proposed in association with the		

	bridge replacement project be contained on the existing facility?	X	☐
(26)	Is there substantial controversy on social, economic, or environmental grounds concerning the project?	☐	X
(27)	Is the project consistent with all Federal, State, and local laws relating to the environmental aspects of the project?	X	☐
(28)	Will the project have an "effect" on structures/properties eligible for or listed on the National Register of Historic Places?	☐	X
(29)	Will the project affect any archaeological remains which are important to history or pre-history?	☐	X
(30)	Will the project require the use of Section 4(f) resources (public parks, recreation lands, wildlife and waterfowl refuges, historic sites, or historic bridges, as defined in Section 4(f) of the U. S. Department of Transportation Act of 1966)?	☐	X
(31)	Will the project result in any conversion of assisted public recreation sites or facilities to non-recreation uses, as defined by Section 6(f) of the Land and Water Conservation Act of 1965, as amended?	☐	X
(32)	Will the project involve construction in, across, or adjacent to a river designated as a component of or proposed for inclusion in the Natural System of Wild and Scenic Rivers?	☐	X

F. Additional Documentation Required for Unfavorable Responses in Part E
(Discussion regarding all unfavorable responses in Part E should be provided below. Additional supporting documentation may be attached, as necessary.)

G. CE Approval

TIP Project No.	BK-5124
State Project No.	42575.1.1
Federal Project No.	

Project Description: (Include project scope and location. Attach location map.)

The project will replace Bridge #307 consisting of a single 32' span on I-beams and concrete abutments with a 45' single span cored slab bridge. The bridge is located on SR 1924 across an unnamed tributary to Henry Fork, Burke County, NC. Traffic will be maintained with an off-site detour during construction.

Categorical Exclusion Action Classification: (Check one)

__X__ TYPE II(A)
_____ TYPE II(B)

Approved:

5/14/10
Date

Roger D. Bryan
Division 13 Environmental Officer

5/14/10
Date

R. A. Tipton, P.E.
Division Construction Engineer

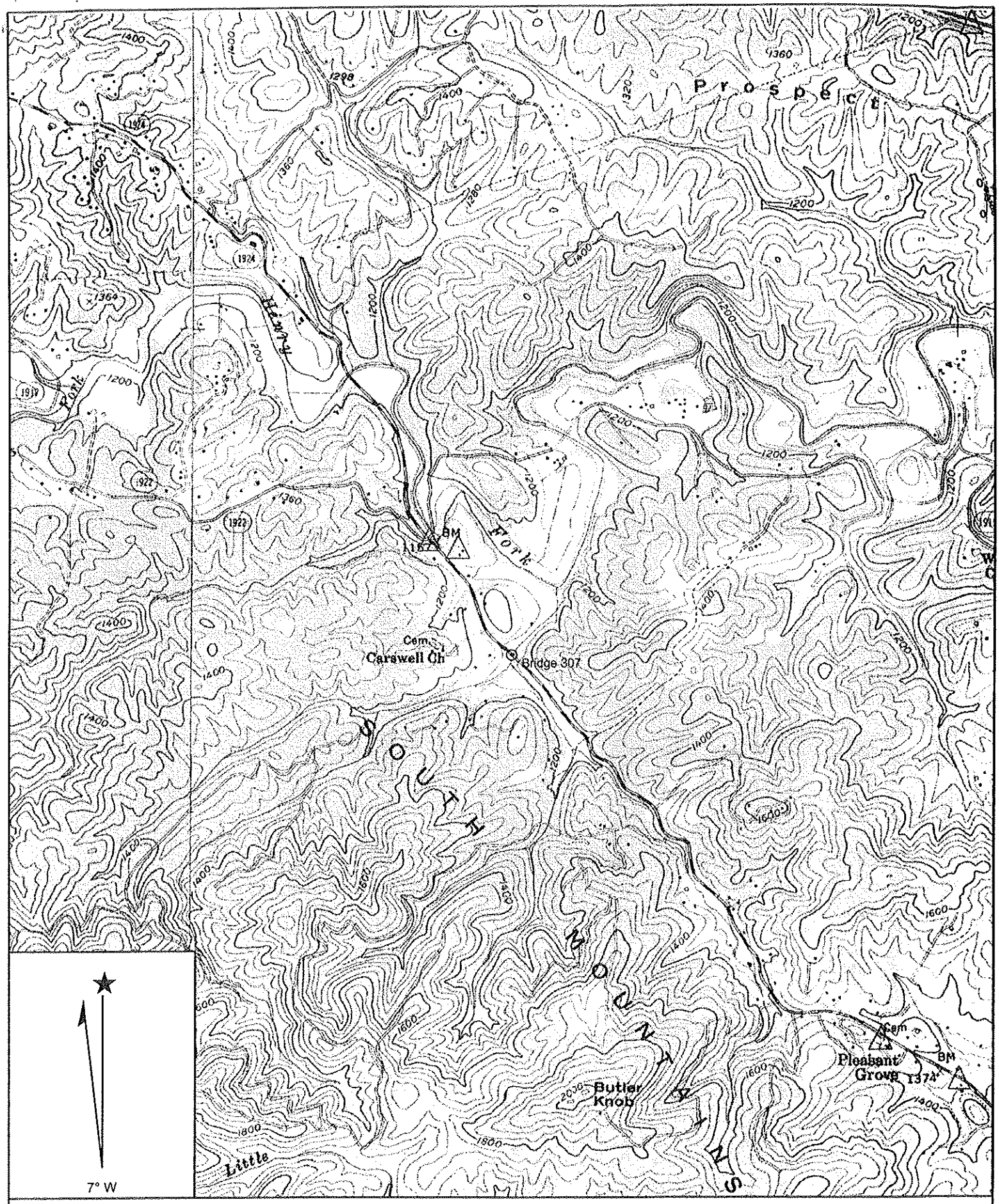
5/14/10
Date

J.J. Swain, Jr., P.E.
Division Engineer

For Type II (B) projects only:

_____
Date

Division Administrator
Federal Highway Administration



Name: VALDESE
Date: 4/14/2004
Scale: 1 inch equals 2000 feet

Location: 035° 39' 15.70" N 081° 36' 29.6" W
Caption:
Bridge 307, SR 1924
Burke County, NC

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OFFICIAL ROSTER OF PRE-BID CONFERENCE ATTENDEES *Sheet 1 of 3*

NCDOT- BRIDGE MANAGEMENT UNIT -POC

DATE: Mon, 6/20/11
TIME: 1:00 pm.

BRIDGE REPLACEMENT CONTRACTS:

1. **Burke Co. Br. #307, DO00124 (BK-5124)**

NAME	COMPANY REPRESENTED AND ADDRESS	CONTACT INFORMATION
Mike Miller	Miller Engineering Co. PO Box 1048 Marion, NC 28752	Email: miller.engineering@yahoo.com Phone: 828 738-9441 Fax: 828-738-8440
Leigh Hughes	TCB Builders LLC P O Box 1625 Lexington NC 27293	Email: tcbbuilder@aol.com Phone: 336 224-2200 Fax: 336-224-2299
Clark Ledbetter	Clark Ledbetter Grading 1806 Gaffney Rd Shelby N.C. 28152	Email: Cledbetter3@carolina.rr.com Phone: 704-472-2185 Fax: 704-434-5906
Luke Blythe	Blythe Development Co. 1415 E. Westinghouse Blvd. Charlotte, NC 28273	Email: lukeb@blythedevelopment.com Phone: 704-588-0023 Fax: 704-588-9935
Joel Hawkins	R.E. Burns & Sons P.O. Box 7168 Statesville, NC 28687	Email: Kevin@reburns.com Phone: 704-924-8646 Fax: 704-924-8607
Phillip Shore	Davie Grading Inc	Email: Daviegrading1@Yadkin.net Phone: ~~704~~ 336-751-0022 Fax: 336-751-1622

OFFICIAL ROSTER OF PRE-BID CONFERENCE ATTENDEES
NCDOT- BRIDGE MANAGEMENT UNIT -POC

DATE: Mon. 6/20/11
TIME: 1:00 p.m.

BRIDGE REPLACEMENT CONTRACTS:

1. **Burke Co. Br. #307, DO00124 (BK-5124)**

NAME	COMPANY REPRESENTED AND ADDRESS	CONTACT INFORMATION
ADAM HOLCOMB	DANE CONSTRUCTION, INC.	Email: ADAM@DANECONSTRUCTION.COM Phone: 704.533.0070 Fax: 704.663.2475
TOM BROWN	APPLE TUCKS ASSO. PO BOX 904 Rutherfordton NC 28139	Email: APPLETUCK@att.net Phone: 828 287-3767 Fax: 828 287-2181
JAMES RAND	J.T. RUSSELL & SONS 1721 US52 NORTH ALBEMARLE, NC 28001	Email: NATHANRUSSELL@JTRUSSELLANDSONS.COM Phone: 704.982.2225 Fax: 704.986.2270
WESLEY DICKSON	TAYLOR & MURPHY CONST.	Email: WDICKSON@TAYLORANDMURPHY.COM Phone: 828 667-4526 Fax: 828 667-1770
		Email: Phone: Fax:
		Email: Phone: Fax:

OFFICIAL ROSTER OF PRE-BID CONFERENCE ATTENDEES *Sheet 3 of 3*

NCDOT- BRIDGE MANAGEMENT UNIT -POC

DATE: Mon. 6/20/11
TIME: 1:00 pm.

BRIDGE REPLACEMENT CONTRACTS:

1. **Burke Co. Br. #307, DO00124 (BK-5124)**

NAME	COMPANY REPRESENTED AND ADDRESS	CONTACT INFORMATION
Troy Wilson	NCDOT DIV 13 BRIDGE	Email: tswilson@ncdot.gov Phone: 828-298-1128 Fax: 828-299-0654
Michael Moore	Palmetto Infrastructure 3620 Pelham Rd. PMB 349 Greenville SC 29602	Email: mmoore@palmetto.com Phone: 864-879-2166 Fax: 864-879-2167
		Email: Phone: Fax:
		Email: Phone: Fax:
		Email: Phone: Fax:
		Email: Phone: Fax: