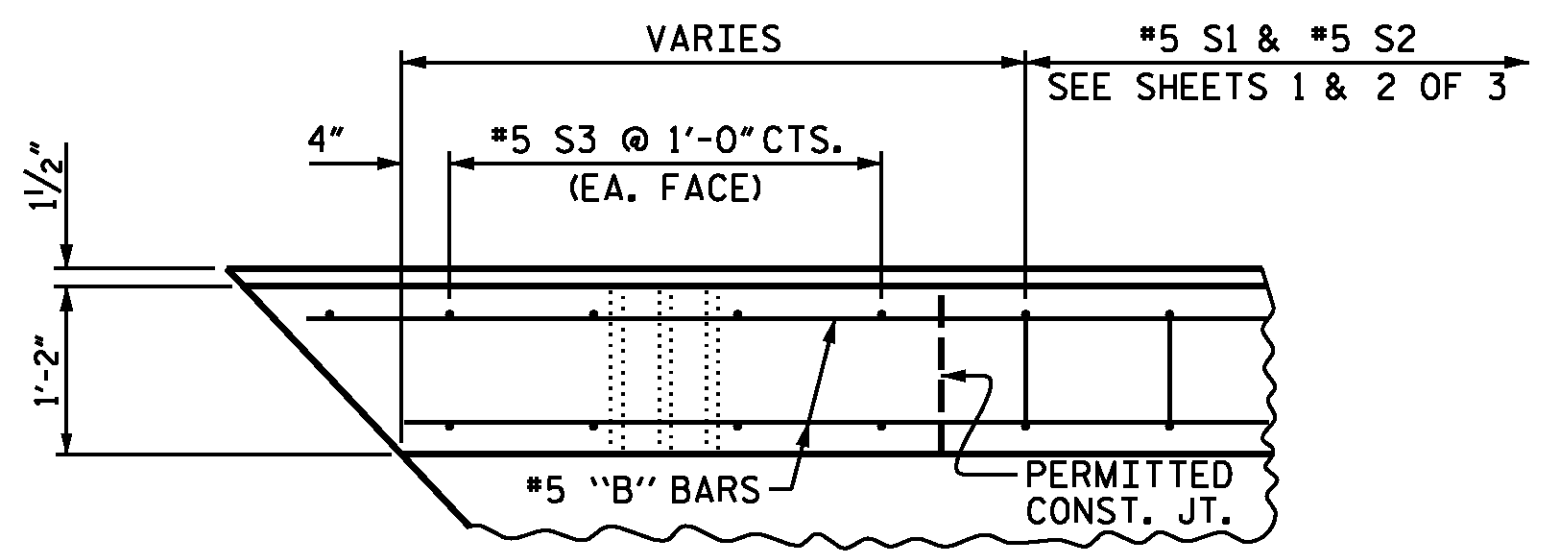
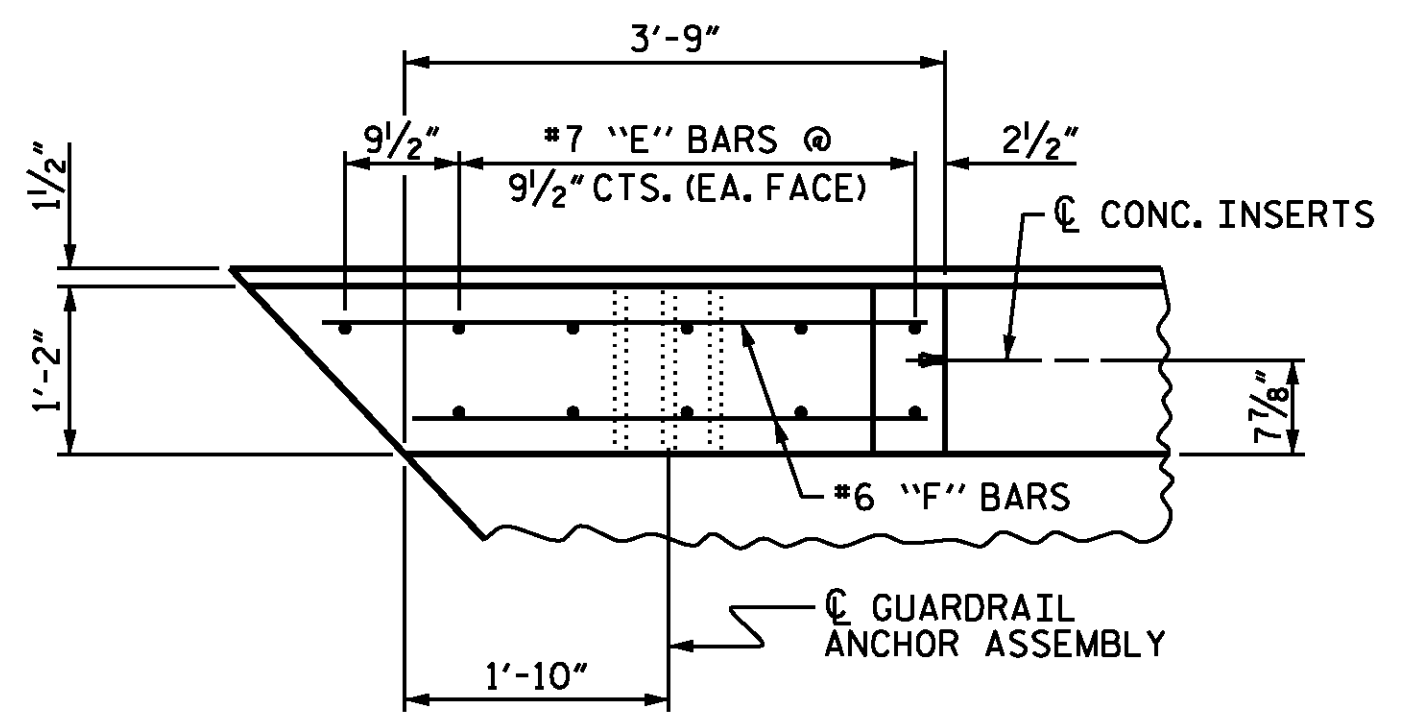


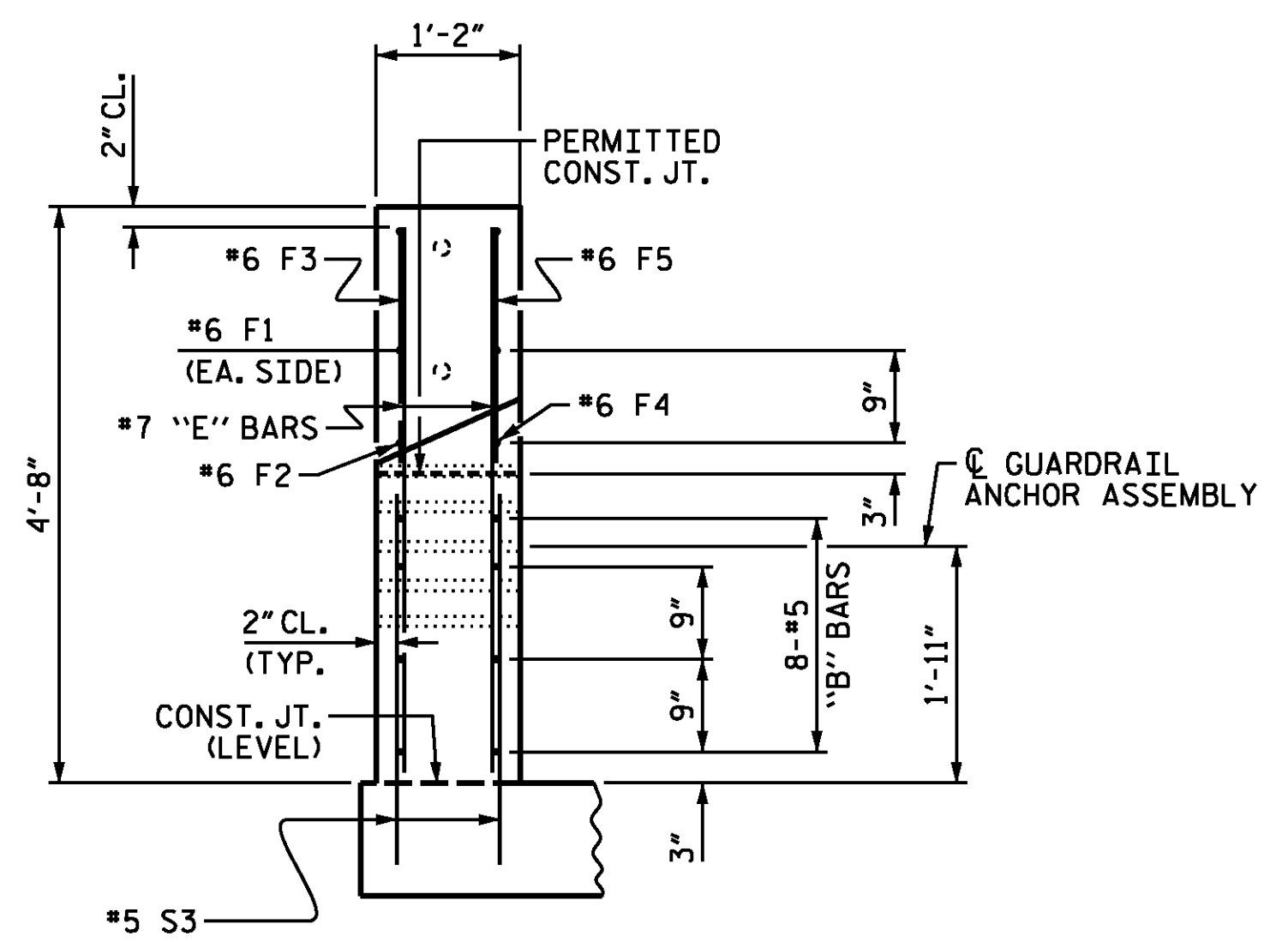
PARAPET DETAILS



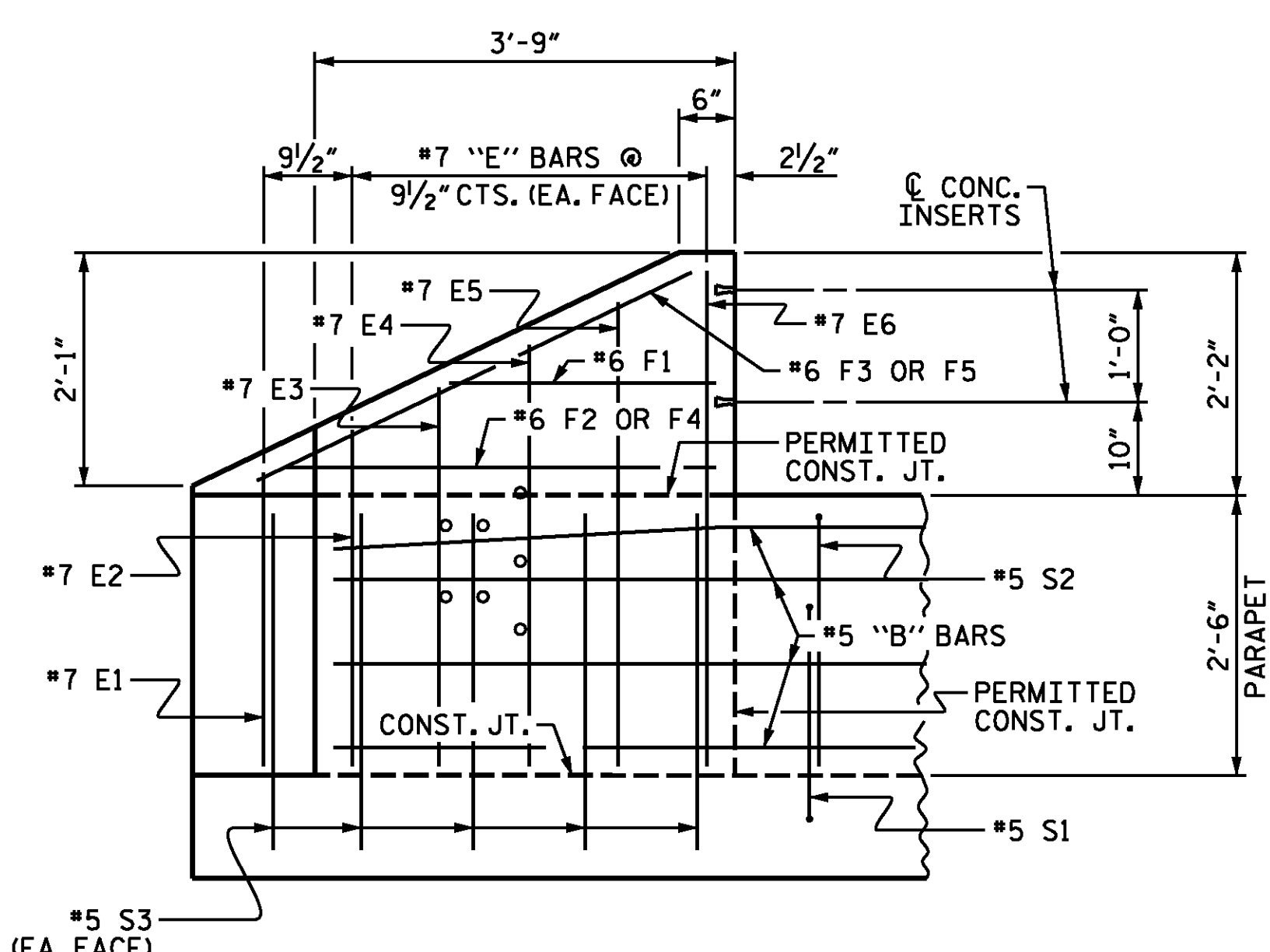
PLAN OF PARAPET



PLAN OF END POST



END VIEW



ELEVATION

PARAPET AND END POST FOR TWO BAR METAL RAIL

SPAN A SHOWN, SPAN B SIMILAR.

NOTES

THE PARAPET IN THE CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THE UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN PARAPET AND END POSTS SHALL BE EPOXY COATED.

THE #5 S1 AND S2 BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 2" MINIMUM CLEARANCE TO THE 1/2" EXPANSION JOINT MATERIAL IN PARAPET.

FOR DETAILS OF CONCRETE INSERTS IN END POSTS, SEE "RAIL POST SPACINGS AND END OF RAIL DETAILS" SHEET.

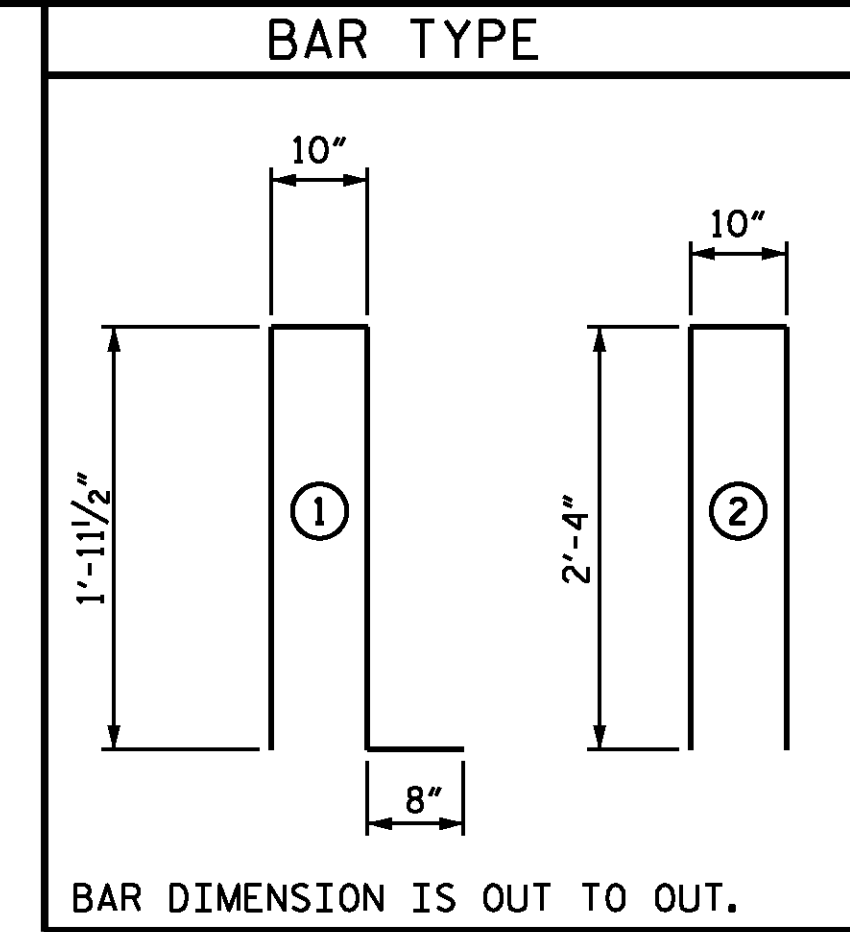
THE JOINTS IN THE DECK AT THE END BENTS SHALL BE SAWSAWED PRIOR TO CASTING OF THE PARAPET.

THE #5 S3 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5 S3 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

GROOVED CONTRACTION JOINTS 1/2" DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF PARAPET IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN PARAPET EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF PARAPET SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FOR DETAILS AND LOCATION OF GUARDRAIL ANCHOR ASSEMBLIES, SEE "GUARDRAIL ANCHORAGE DETAILS FOR METAL RAILS" SHEET.

BILL OF MATERIAL FOR PARAPETS AND END POSTS						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
*B1	128	#5	STR	25'-8"	3,427	
*B2	32	#5	STR	8'-11"	298	
*B3	32	#5	STR	12'-5"	414	
*E1	4	#7	STR	2'-7"	21	
*E2	8	#7	STR	2'-11"	48	
*E3	8	#7	STR	3'-4"	55	
*E4	8	#7	STR	3'-8"	60	
*E5	8	#7	STR	4'-1"	67	
*E6	8	#7	STR	4'-4"	71	
*F1	8	#6	STR	2'-4"	28	
*F2	4	#6	STR	3'-11"	24	
*F3	4	#6	STR	4'-10"	29	
*F4	4	#6	STR	3'-5"	21	
*F5	4	#6	STR	3'-8"	22	
*S1	472	#5	1	5'-5"	2,667	
*S2	472	#5	2	5'-6"	2,708	
*S3	36	#5	STR	3'-0"	113	
*EPOXY COATED REINFORCING STEEL				LBS.	10,073	
CLASS "AA" CONCRETE				C.Y.	54.0	
1'-2" x 2'-6" CONCRETE PARAPET				L.F.	488.28	



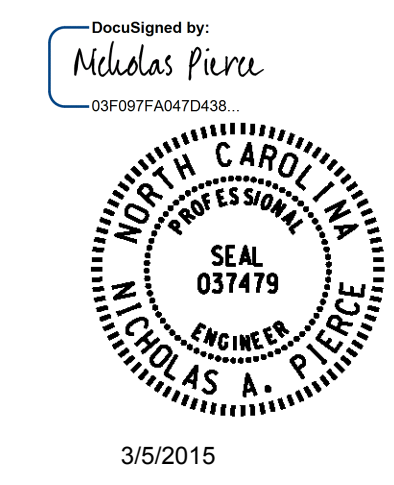
PROJECT NO. B-5114
RANDOLPH COUNTY
 STATION: 19+99.61 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE
 CONCRETE PARAPET
 DETAILS

1'-2" X 2'-6" PARAPET



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 LICENSE NO. F-0891

DESIGN ENGINEER OF RECORD N.A. PIERCE	DATE 12/2014
DRAWN BY : M.J. OSTRISHKO	DATE : 06/2014
CHECKED BY : N.A. PIERCE	DATE : 12/2014

REVISIONS						SHEET NO.
NO.	BYs	DATEs	NO.	BYs	DATEs	TOTAL SHEETS
1			3			36
2			4			