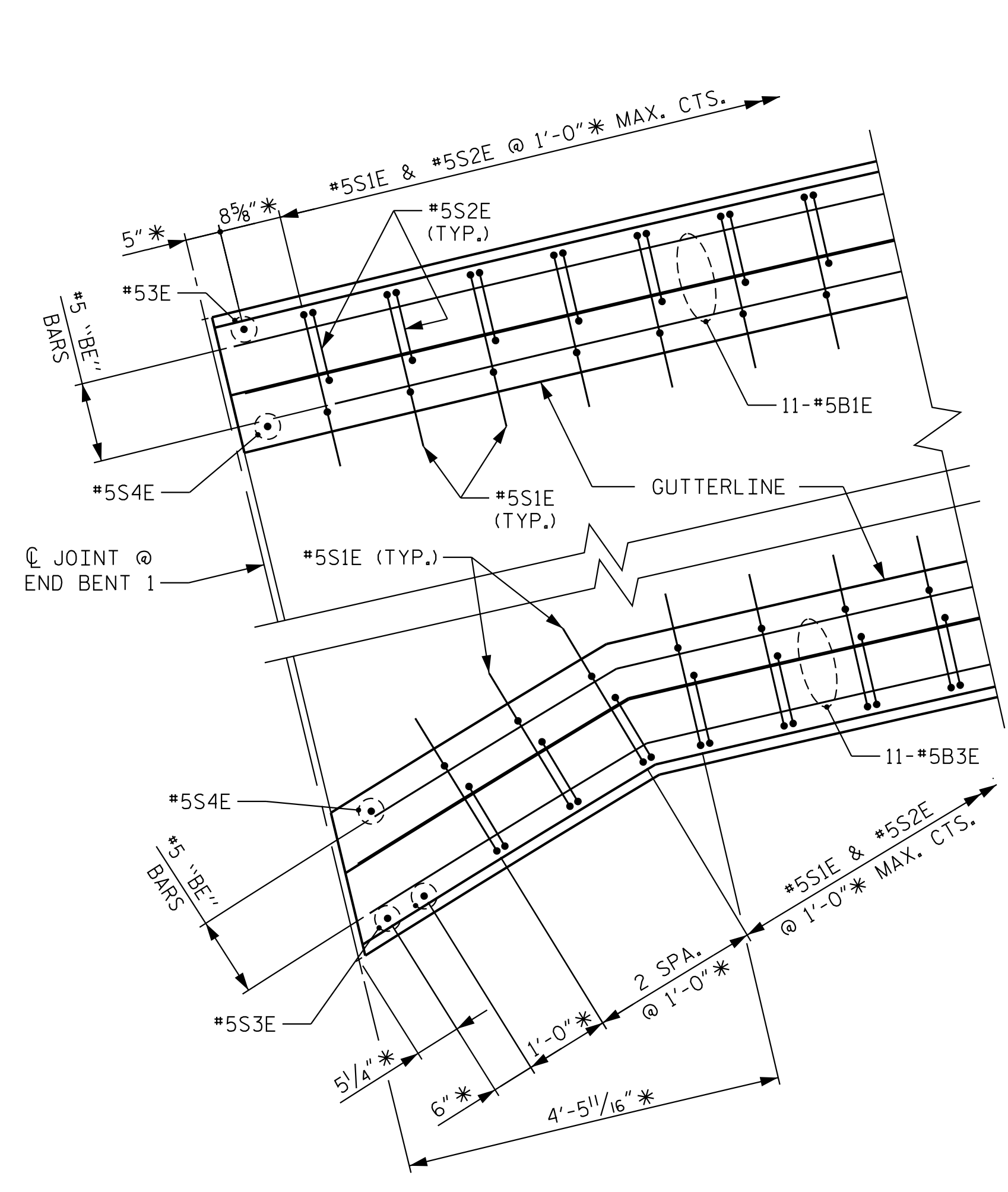
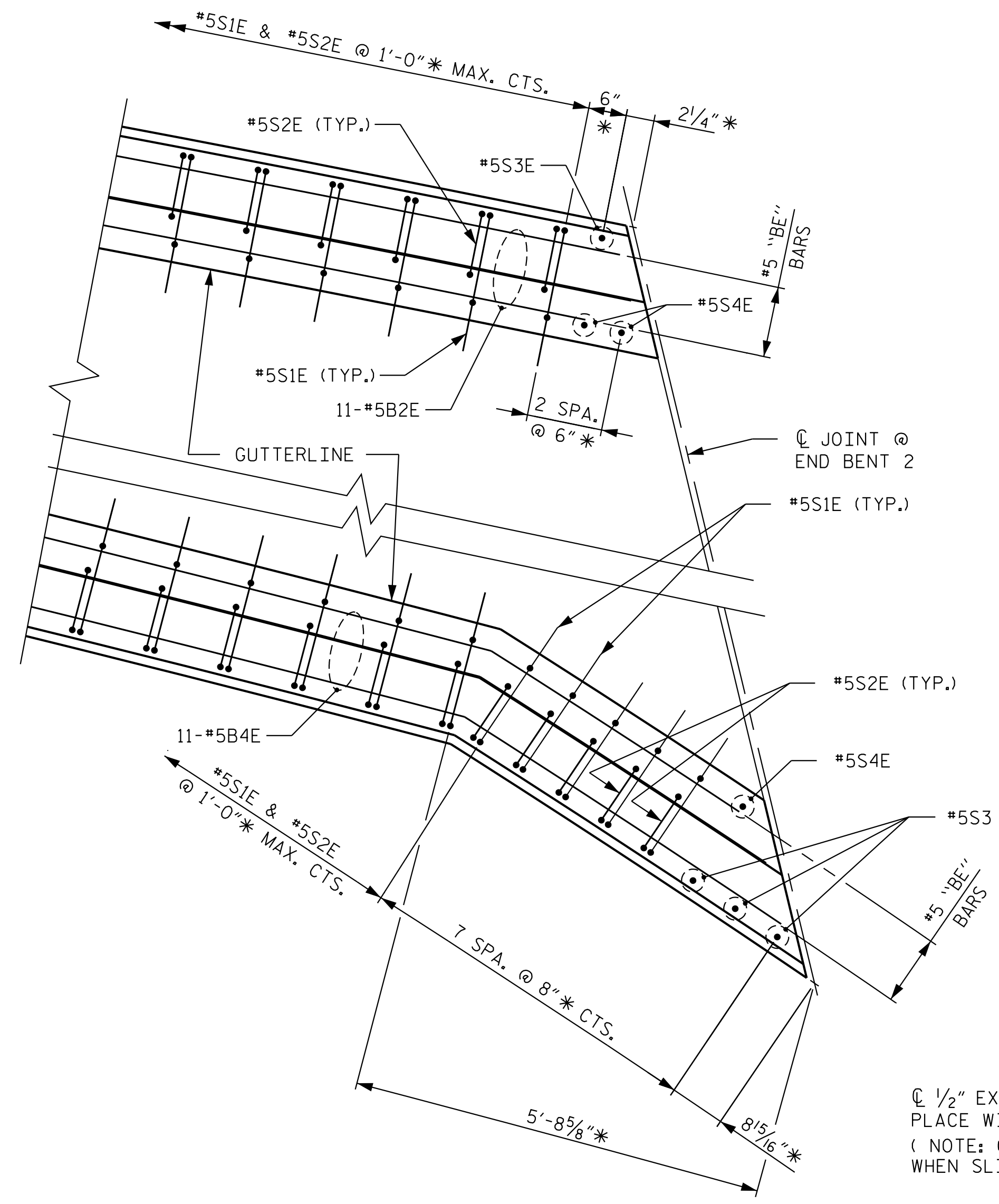


10/23/2017 K:\BID1-Structures\Bridges\AK\01036388 - U-5806 - Final Design\Coord\028_U-5806_BR02.dgn



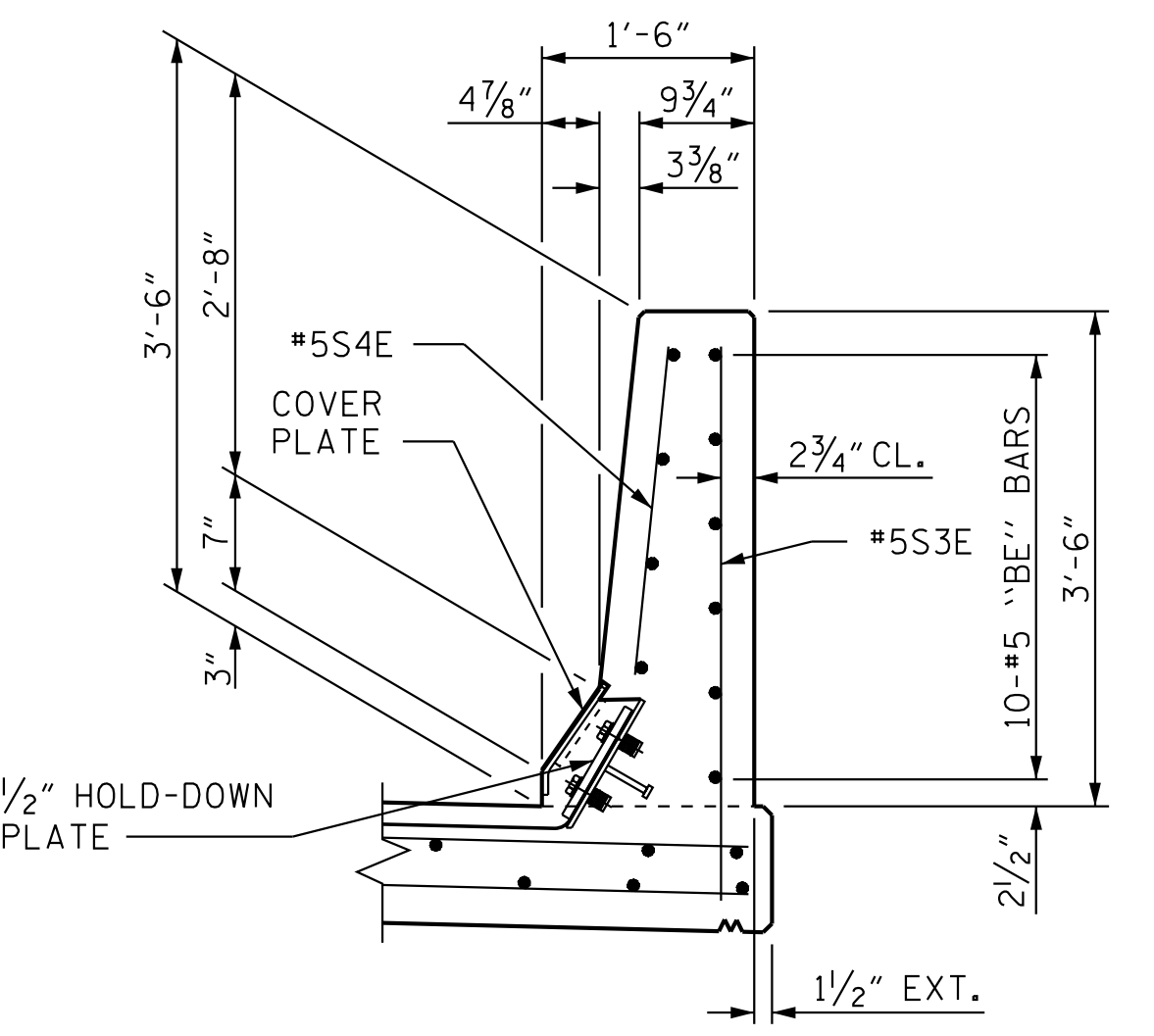
PLAN AT END OF RAIL

(@ END BENT 1)
* ARC LENGTHS MEASURED ALONG OUTSIDE EDGE OF CONCRETE DECK

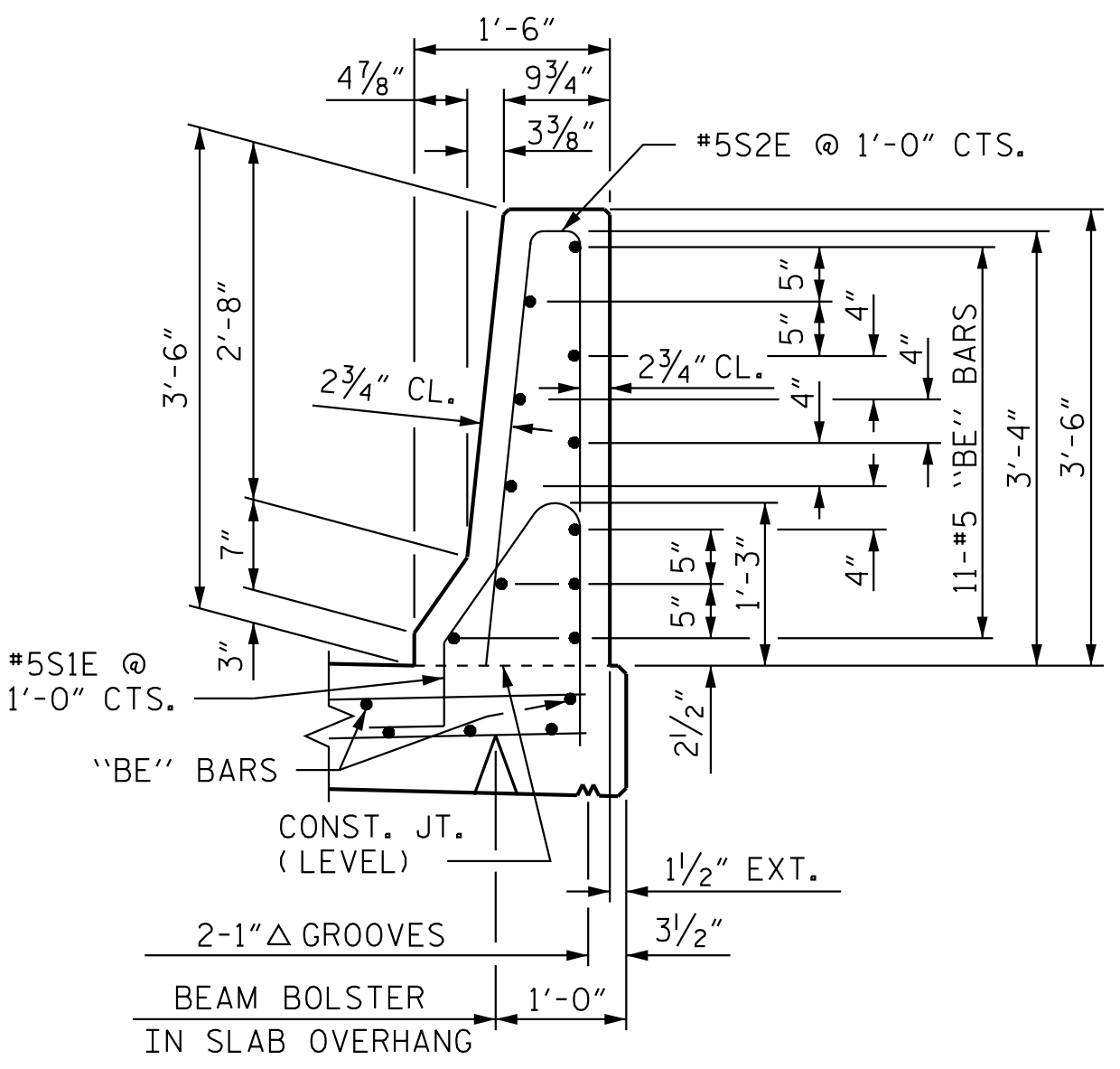


PLAN AT END OF RAIL

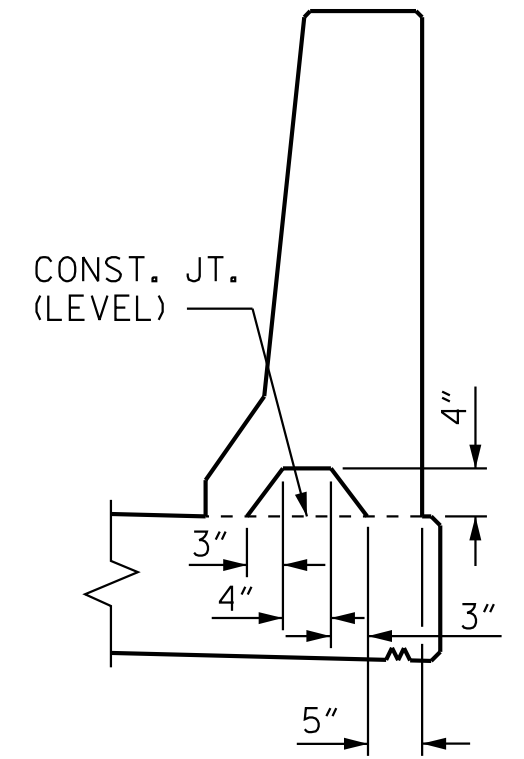
(@ END BENT 2)
* ARC LENGTHS MEASURED ALONG OUTSIDE EDGE OF CONCRETE DECK



SECTION THRU RAIL @ END VIEW



SECTION THRU RAIL



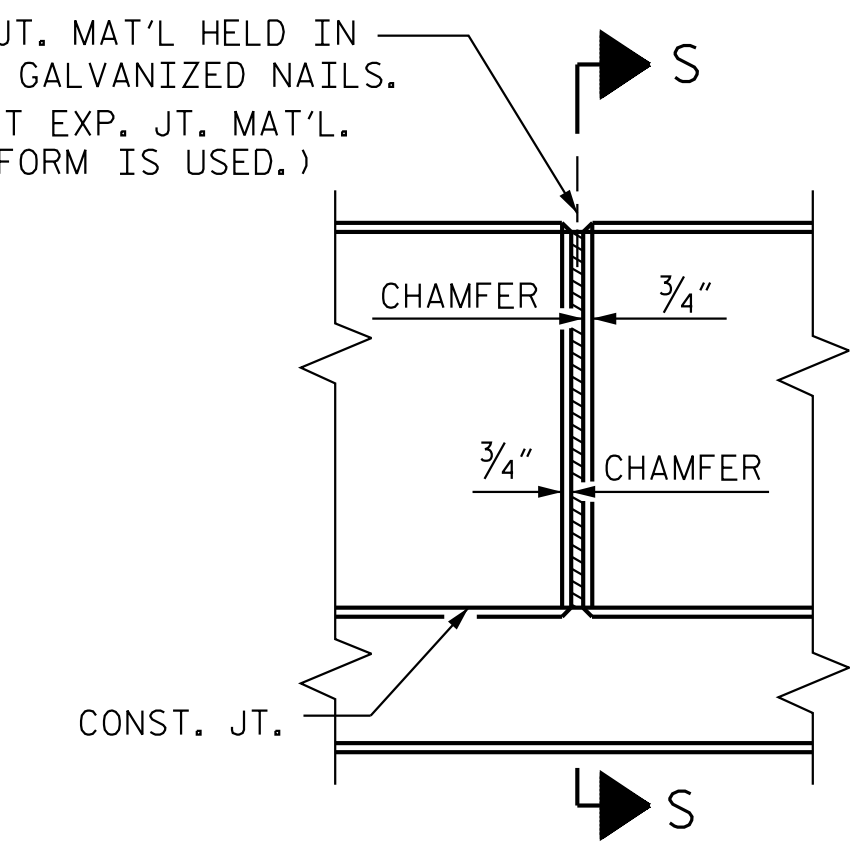
SECTION S-S AT DAM IN OPEN JOINT (THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

NOTES

THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. FOR MORE INFORMATION, SEE CONSTRUCTION SEQUENCE SHEETS.

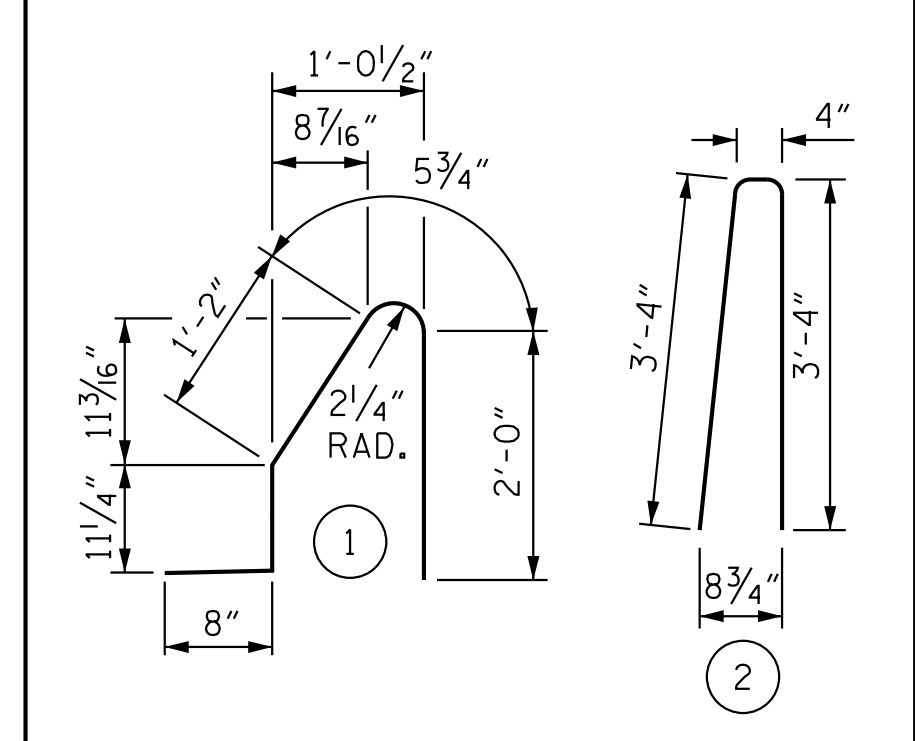
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, 1/2" 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. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.



ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1E	143	#5	STR	24'-7"	3,667
B2E	11	#5	STR	25'-7"	294
B3E	11	#5	STR	24'-8"	283
B4E	11	#5	STR	27'-8"	317
S1E	403	#5	1	4'-11"	2,067
S2E	403	#5	2	7'-0"	2,942
S3E	7	#5	STR	3'-11"	29
S4E	5	#5	STR	2'-4"	12

EPOXY COATED REINFORCING STEEL 9,611 LBS.
CLASS AA CONCRETE 55.0 CU. YDS.
CONCRETE BARRIER RAIL ** 405.0 LIN. FT.

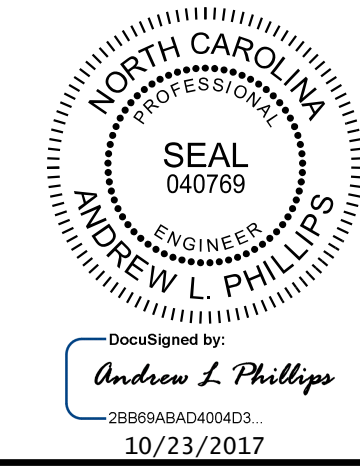
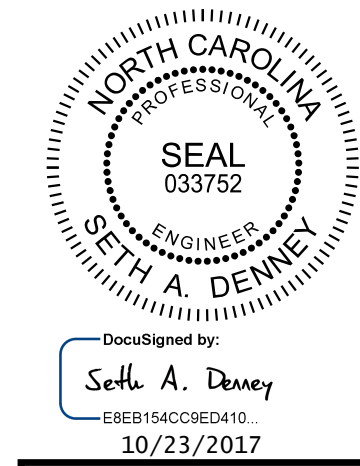
"E" DENOTES EPOXY COATED REINFORCING STEEL.

* QUANTITIES DO NOT INCLUDE BARRIER RAILS ON APPROACH SLABS.

B3E AND B4E BARS MAY BE FIELD BENT.

PROJECT NO. U-5806
CABARRUS COUNTY
STATION: 15+75.56 -Y1-
27+06.95 -L-

SHEET 2 OF 2



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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
CONCRETE BARRIER RAIL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-28
1			3			TOTAL SHEETS
2			4			50

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