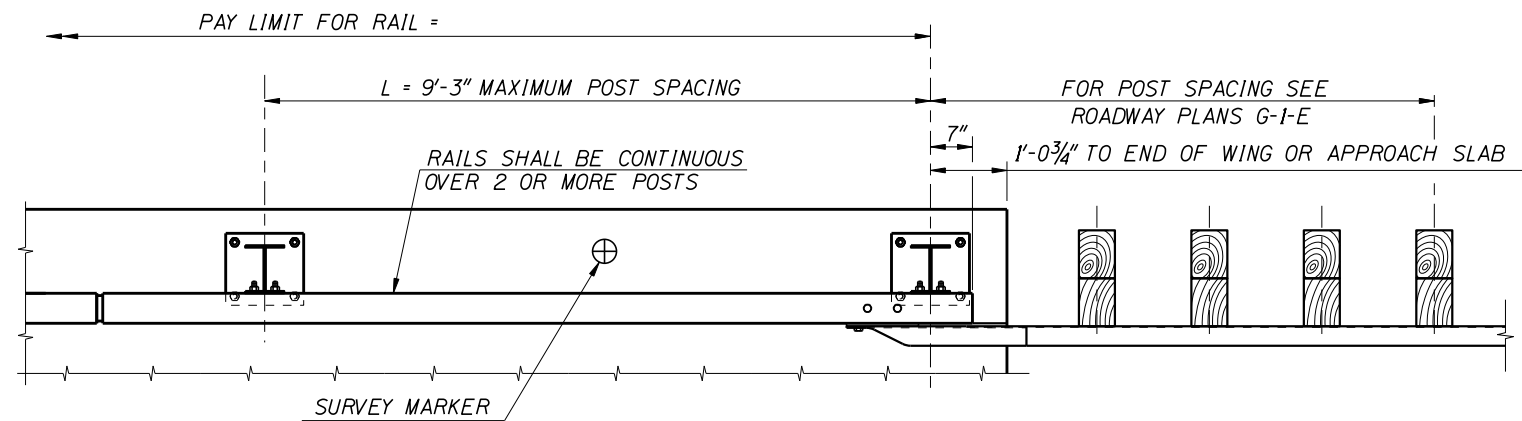
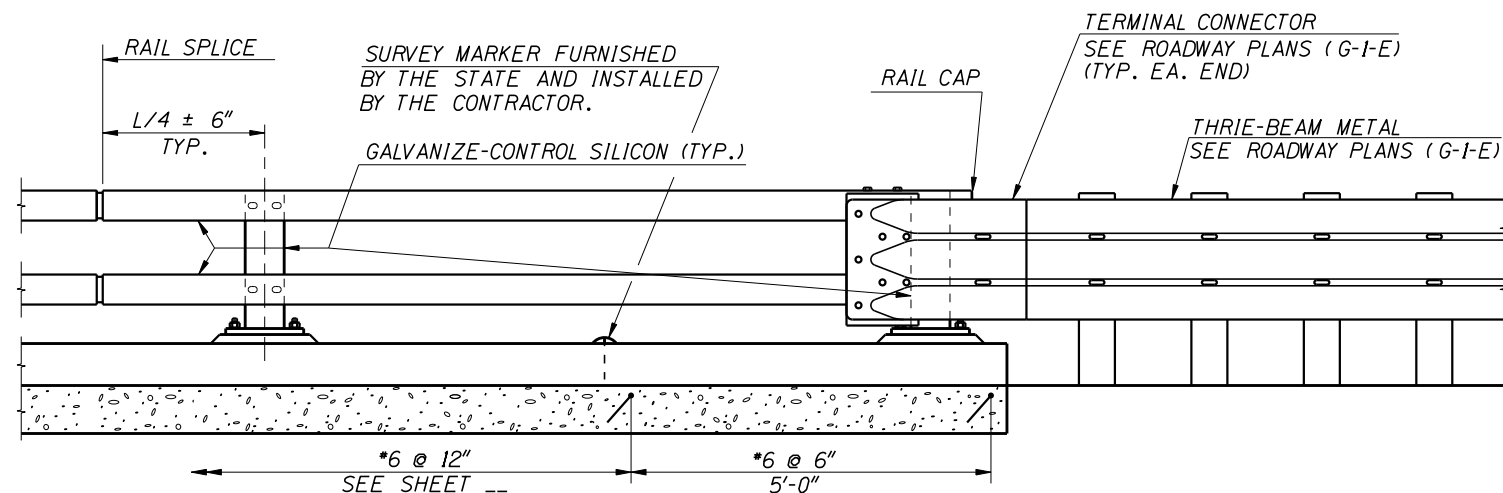
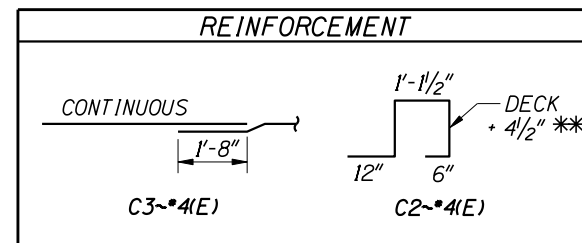




PLAN ~ CURB MOUNT RAIL
3/4"=1'-0"



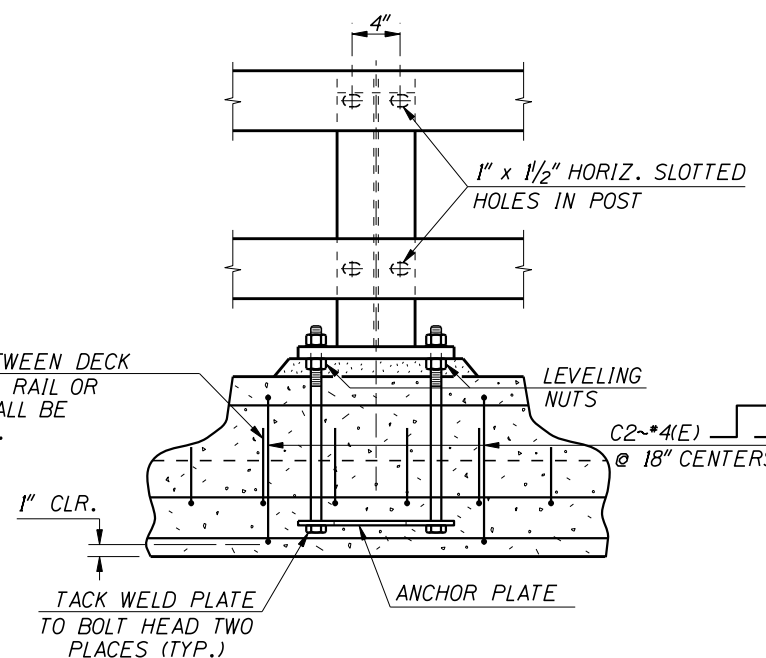
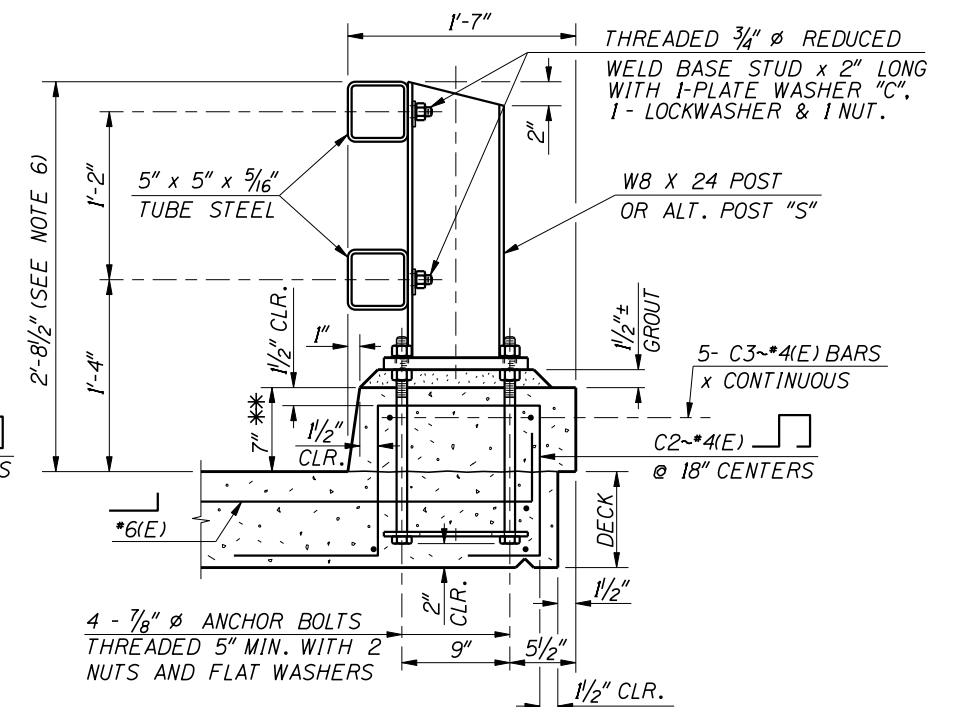
ELEVATION ~ CURB MOUNT RAIL
3/4"=1'-0"



APPROXIMATE QUANTITIES

CONCRETE ----- 0.90 CUBIC FEET/L.F.
STRUCTURAL STEEL --- 50 POUNDS/L.F.
REINFORCEMENT --- 10 POUNDS/L.F.
** ADJUST CONCRETE AND REINFORCEMENT
QUANTITIES IF A WEARING SURFACE IS APPLIED
DURING INITIAL BRIDGE CONSTRUCTION

*6(E) BARS AT 12", SPACE BETWEEN DECK
REINF. (*4 @ 12"). AT END OF RAIL OR
EXPANSION JOINTS, *6 @ 6" SHALL BE
USED FOR A DISTANCE OF 5'.



POST DETAILS
1/2"=1'-0"

GENERAL NOTES

1. CONCRETE FOR CURBS SHALL BE CONCRETE CLASS 40A.
2. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM WITH A.S.T.M. F-1554 GRADE 105 AND ARE TO BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-153, UNLESS NOTED OTHERWISE.
3. RAILING SHALL BE FABRICATED FROM SQ. STR. TUBE CONFORMING TO A.S.T.M. A-500 GRADE B, A.S.T.M. A-618, OR A.S.T.M. A-501 STEEL. POSTS, ANGLES, PLATES AND SLEEVES ARE TO BE A.S.T.M. A-36 STEEL.
4. THE RAILING SHALL BE FABRICATED IN A PLANT EXPERIENCED IN PRODUCING RAILINGS AND ARCHITECTURAL METAL WORK AND SHALL BE ERECTED BY SKILLED WORKMAN EXPERIENCED IN THIS TYPE OF WORK. FABRICATION AND ERECTION OF THE RAILING SHALL CONFORM TO THE REQUIREMENTS OF THE AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES AND I.T.D. STANDARD SPECIFICATIONS.
5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH SECTION 504 AND SHALL INCLUDE COMPLETE DIMENSIONS AND DETAILS OF FABRICATION INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE CLEARLY SPECIFIED. BEFORE PROJECT COMPLETION, THE CONTRACTOR SHALL FURNISH THE ENGINEER A 22" X 34" REPRODUCIBLE MYLAR COPY OF THE SHOP DRAWINGS.
6. TOP OF POST TO BE 2'-8 1/2" ABOVE FINISH GRADE. DIMENSION MARKED THUS ** WILL VARY IF A WEARING SURFACE IS APPLIED DURING INITIAL BRIDGE CONSTRUCTION.
7. ALL POSTS SHALL BE VERTICAL.
8. RAILINGS AND SLEEVES SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH A.S.T.M. SPECIFICATION A-123 AND A.S.T.M. A-385. ALL WELDED AREAS SHALL BE THOROUGHLY CLEANED PRIOR TO GALVANIZING TO REMOVE ALL SLAG OR OTHER MATERIAL THAT WOULD INTERFERE WITH THE ADHERENCE OF THE ZINC. THE GALVANIZED SURFACES SHALL BE FREE OF FINS, ABRASIONS, ROUGH OR SHARP EDGES OR OTHER SURFACE DEFECTS.
9. GALVANIZE-CONTROL SILICON MEANS SILICON CONTENT OF THE BASE METAL SHALL BE IN THE RANGE OF 0 TO 0.06% (PREFERABLY 0 TO 0.04%) OR 0.15 TO 0.28% (PREFERABLY 0.15 TO 0.25%).
10. BASE PLATES AND ENDS OF TUBE SECTIONS AT SPLICES TO BE SAWED OR MILLED. CUT ENDS TO BE TRUE, SMOOTH AND FREE FROM BURRS OR RAGGED EDGES.
11. ALTERNATE SPLICE DETAIL MAY BE SUBMITTED FOR APPROVAL ON SHOP DRAWINGS.
12. ALL REINFORCING BARS SHALL BE EPOXY COATED IN ACCORDANCE WITH SUBSECTION 708.02.
13. THE BID ITEM "TWO TUBE CURB MOUNT RAIL" SHALL CONSIST OF FURNISHING ALL MATERIAL AND LABOR NECESSARY FOR THE CONSTRUCTION OF THE CONCRETE CURB AND METAL RAILING AS SHOWN ON THE PLANS, COMPLETE AND IN PLACE.
14. GROUT SHALL CONFORM TO TYPE B CLASS 1 AS SPECIFIED IN SUBSECTION 506.03 PARAGRAPH H.
15. PAYMENT FOR THE THRIE-BEAM GUARDRAIL AND ASSOCIATED POSTS IS INCLUDED IN ROADWAY ITEMS.

REVISIONS				DESIGNED	SCALES SHOWN	ORIGINAL	IDaho TRANSPORTATION DEPARTMENT	English	PROJECT NO.	TWO-TUBE CURB MOUNT RAIL W/THRIE BEAM END CONNECTION - SHT. 1 OF 2	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED	ARE FOR 34" X 22" PRINTS ONLY	SIGNED BY:					BRIDGE LRFD MANUAL, PAGE B13.2A	
▲				DETAILED	CADD FILE NO.						COUNTY	KEY NO.
▲				DWG. CHECKED	prj00000\bridge\ b13_2a.dgn						BRIDGE DRAWING NO.	SHEET
▲				CORRECTIONS	DRAWING DATE:	DATE SIGNED: DATE						OF
▲					APRIL 2007	ORIGINAL STORED AT: ITO-BRIDGE SECTION						