

1. THE IMPACT TEST TEMPERATURE SHALL BE DETERMINED BY REFERRING TO CAN/CSS-08-06, TABLE 10.13 BASED ON THE SERVICE TEMPERATURE OF THE STRUCTURE GIVEN IN FIGURE A3.1.2.
2. FOR DECK WITH GFRP REINFORCEMENT, THE EXTRA STAINLESS STEEL BARS SHOWN AT RAIL POST LOCATION SHALL BE REPLACED WITH GFRP REBARS OF EQUIVALENT STRENGTH.
3. THE NOTES TO DESIGNER SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING OF CONTRACT.

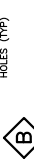
1888

QUEST

(INSIDE FACE SHOWN)



N.T.S.



SLEEVE
OF 6mm
OR SLIDING
OF RAIL

1. RAIL ELEMENTS SHALL BE HOLLOW STRUCTURAL STEEL. GRADE 50T, CLASS C, RAIL ELEMENT SHALL MEET THE FOLLOWING REQUIREMENTS:
 - a. 27 JOULES AT TEST TEMPERATURE OF -20°C
 - b. VOLTAGE AT YIELD STRENGTH SHALL BE SUBSTITUTED (ASTM A606 GRADE B OR C STEEL MAY BE USED UNIFORM TENSILE STRENGTH PROVIDED THAT THE CHARTERED LABORATORY TESTING DOCUMENTATION IS SIGNED BY THE SUBMISSION OF TEST DOCUMENTATION).
2. POSTS AND PLATES SHALL BE GRADE 50ST.
3. THE NOTCH TOUGHNESS REQUIREMENTS FOR POSTS AND PLATES SHALL BE THE SAME AS THOSE SPECIFIED IN NOTE 1.
4. ANCHOR STUDS, WASHERS AND NUTS SHALL CONFORM TO ASTM A449.
5. FULL THREAD STUDS, WASHERS AND NUTS FOR FASTENING SHALL BE SUPPLIED IN LENDERS TO BE ATTACHED TO A MINIMUM OF THREE (3) RAIL POSTS.
6. GALVANIZING ON MATING SURFACES OF RAILS TO HAVE UNIFORM THICKNESS NOT EXCEEDING 0.15mm TO ENSURE SLIDING FIT.
7. RAILS, POSTS, RAIL SPLICES AND END CAPS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
8. BOLTS, ANCHOR STUDS, WASHERS AND NUTS SHALL BE GRAD 50T, CLASS C, RAIL ELEMENTS SHALL MEET THE FOLLOWING REQUIREMENTS:
 - a. 27 JOULES AT TEST TEMPERATURE OF -20°C
 - b. VOLTAGE AT YIELD STRENGTH SHALL BE SUBSTITUTED (ASTM A606 GRADE B OR C STEEL MAY BE USED UNIFORM TENSILE STRENGTH PROVIDED THAT THE CHARTERED LABORATORY TESTING DOCUMENTATION IS SIGNED BY THE SUBMISSION OF TEST DOCUMENTATION).
9. RAILS SHALL BE PRESENT TO FOLLOW RAIL CURVATURE WHERE RAILS IS LESS THAN 150mm.
10. RAIL POSTS SHALL BE SET PERPENDICULAR TO GRADE.
11. RAILS MAY BE CUT AS REQUIRED IN THE FIELD, CUT TO B D TO B E TO B F TO B G TO B H TO B I TO B J TO B K TO B L TO B M TO B N TO B O TO B P TO B Q TO B R TO B S TO B T TO B U TO B V TO B W TO B X TO B Y TO B Z TO B AA TO B AB TO B AC TO B AD TO B AE TO B AF TO B AG TO B AH TO B AI TO B AJ TO B AK TO B AL TO B AM TO B AN TO B AO TO B AP TO B AQ TO B AR TO B AS TO B AT TO B AU TO B AV TO B AW TO B AX TO B AY TO B AZ TO B BA TO B BB TO B BC TO B BD TO B BE TO B BF TO B BG TO B BH TO B BI TO B BJ TO B BK TO B BL TO B BM TO B BN TO B BO TO B BP TO B BQ TO B BR TO B BS TO B BT TO B BU TO B BV TO B BW TO B BX TO B BY TO B BZ TO B C TO B CA TO B CB TO B CC TO B CD TO B CE TO B CF TO B CG TO B CH TO B CI TO B CJ TO B CK TO B CL TO B CM TO B CN TO B CO TO B CP TO B CQ TO B CR TO B CS TO B CT TO B CU TO B CV TO B CW TO B CX TO B CY TO B CZ TO B D TO B DA TO B DB TO B DC TO B DD TO B DE TO B DF TO B DG TO B DH TO B DI TO B DJ TO B DK TO B DL TO B DM TO B DN TO B DO TO B DP TO B DQ TO B DR TO B DS TO B DT TO B DU TO B DV TO B DW TO B DX TO B DY TO B DZ TO B E TO B EA TO B EB TO B EC TO B ED TO B EE TO B EF TO B EG TO B EH TO B EI TO B EJ TO B EK TO B EL TO B EM TO B EN TO B EO TO B EP TO B EQ TO B ER TO B ES TO B ET TO B EU TO B EV TO B EW TO B EX TO B EY TO B EZ TO B F TO B FA TO B FB TO B FC TO B FD TO B FE TO B FF TO B FG TO B FH TO B FI TO B FJ TO B FK TO B FL TO B FM TO B FN TO B FO TO B FP TO B FQ TO B FR TO B FS TO B FT TO B FU TO B FV TO B FW TO B FX TO B FY TO B FZ TO B G TO B GA TO B GB TO B GC TO B GD TO B GE TO B GF TO B GG TO B GH TO B GI TO B GJ TO B GK TO B GL TO B GM TO B GN TO B GO TO B GP TO B GQ TO B GR TO B GS TO B GT TO B GU TO B GV TO B GW TO B GX TO B GY TO B GZ TO B H TO B HA TO B HB TO B HC TO B HD TO B HE TO B HF TO B HG TO B HH TO B HI TO B HJ TO B HK TO B HL TO B HM TO B HN TO B HO TO B HP TO B HQ TO B HR TO B HS TO B HT TO B HU TO B HV TO B HW TO B HX TO B HY TO B HZ TO B I TO B IA TO B IB TO B IC TO B ID TO B IE TO B IF TO B IG TO B IH TO B II TO B IJ TO B IK TO B IL TO B IM TO B IN TO B IO TO B IP TO B IQ TO B IR TO B IS TO B IT TO B IU TO B IV TO B IW TO B IX TO B IY TO B IZ TO B J TO B JA TO B JB TO B JC TO B JD TO B JE TO B JF TO B JG TO B JH TO B JI TO B JJ TO B JK TO B JL TO B JM TO B JN TO B JO TO B JP TO B JQ TO B JR TO B JS TO B JT TO B JU TO B JV TO B JW TO B JX TO B JY TO B JZ TO B K TO B KA TO B KB TO B KC TO B KD TO B KE TO B KF TO B KG TO B KH TO B KI TO B KJ TO B KK TO B KL TO B KM TO B KN TO B KO TO B KP TO B KQ TO B KR TO B KS TO B KT TO B KU TO B KV TO B KW TO B KX TO B KY TO B KZ TO B L TO B LA TO B LB TO B LC TO B LD TO B LE TO B LF TO B LG TO B LH TO B LI TO B LJ TO B LK TO B LL TO B LM TO B LN TO B LO TO B LP TO B LQ TO B LR TO B LS TO B LT TO B LU TO B LV TO B LW TO B LX TO B LY TO B LZ TO B M TO B MA TO B MB TO B MC TO B MD TO B ME TO B MF TO B MG TO B MH TO B MI TO B MJ TO B MK TO B ML TO B MM TO B MN TO B MO TO B MP TO B MQ TO B MR TO B MS TO B MT TO B MU TO B MV TO B MW TO B MX TO B MY TO B MZ TO B N TO B NA TO B NB TO B NC TO B ND TO B NE TO B NF TO B NG TO B NH TO B NI TO B NJ TO B NK TO B NL TO B NM TO B NN TO B NO TO B NP TO B NQ TO B NR TO B NS TO B NT TO B NU TO B NV TO B NW TO B NX TO B NY TO B NZ TO B O TO B OA TO B OB TO B OC TO B OD TO B OE TO B OF TO B OG TO B OH TO B OI TO B OJ TO B OK TO B OL TO B OM TO B ON TO B OO TO B OP TO B OQ TO B OR TO B OS TO B OT TO B OU TO B OV TO B OW TO B OX TO B OY TO B OZ TO B P TO B PA TO B PB TO B PC TO B PD TO B PE TO B PF TO B PG TO B PH TO B PI TO B PJ TO B PK TO B PL TO B PM TO B PN TO B PO TO B PP TO B PQ TO B PR TO B PS TO B PT TO B PU TO B PV TO B PW TO B PX TO B PY TO B PZ TO B Q TO B QA TO B QB TO B QC TO B QD TO B QE TO B QF TO B QG TO B QH TO B QI TO B QJ TO B QK TO B QL TO B QM TO B QN TO B QO TO BQP TO B QR TO B QS TO B QT TO B QU TO B QV TO B QW TO B QX TO B QY TO B QZ TO B R TO B RA TO B RB TO B RC TO B RD TO B RE TO B RF TO B RG TO B RH TO B RI TO B RJ TO B RK TO B RL TO B RM TO B RN TO B RO TO B RP TO B RQ TO B RR TO B RS TO B RT TO B RU TO B RV TO B RW TO B RX TO B RY TO B RZ TO B S TO B SA TO B SB TO B SC TO B SD TO B SE TO B SF TO B SG TO B SH TO B SI TO B SJ TO B SK TO B SL TO B SM TO B SN TO B SO TO B SP TO B SQ TO B SR TO B SS TO B ST TO B SU TO B SV TO B SW TO B SX TO B SY TO B SZ TO B T TO B TA TO B TB TO B TC TO B TD TO B TE TO B TF TO B TG TO B TH TO B TI TO B TJ TO B TK TO B TL TO B TM TO B TN TO B TO TO B TP TO B TQ TO B TR TO B TS TO B TT TO B TU TO B TV TO B TW TO B TX TO B TY TO B TZ TO B U TO B UA TO B UB TO B UC TO B UD TO B UE TO B UF TO B UG TO B UH TO B UI TO B UJ TO B UK TO B UL TO B UM TO B UN TO B UO TO B UP TO B UQ TO B UR TO B US TO B UT TO B UU TO B UV TO B UW TO B UX TO B UY TO B UZ TO B V TO B VA TO B VB TO B VC TO B VD TO B VE TO B VF TO B VG TO B VH TO B VI TO B VJ TO B VK TO B VL TO B VM TO B VN TO B VO TO B VP TO B VQ TO B VR TO B VS TO B VT TO B VU TO B VV TO B VW TO B VX TO B VY TO B VZ TO B W TO B WA TO B WB TO B WC TO B WD TO B WE TO B WF TO B WG TO B WH TO B WI TO B WJ TO B WK TO B WL TO B WM TO B WN TO B WO TO B WP TO B WQ TO B WR TO B WS TO B WT TO B WU TO B WV TO B WW TO B WX TO B WY TO B WZ TO B X TO B XA TO B XB TO B XC TO B XD TO B XE TO B XF TO B XG TO B XH TO B XI TO B XJ TO B XK TO B XL TO B XM TO B XN TO B XO TO B XP TO B XQ TO B XR TO B XS TO B XT TO B XU TO B XV TO B XW TO B XX TO B XY TO B XZ TO B Y TO B YA TO B YB TO B YC TO B YD TO B YE TO B YF TO B YG TO B YH TO B YI TO B YJ TO B YK TO B YL TO B YM TO B YN TO B YO TO B YP TO B YQ TO B YR TO B YS TO B YT TO B YU TO B YV TO B YW TO B YX TO B YY TO B YZ TO B Z TO B ZA TO B ZB TO B ZC TO B ZD TO B ZE TO B ZF TO B ZG TO B ZH TO B ZI TO B ZJ TO B ZK TO B ZL TO B ZM TO B ZN TO B ZO TO B ZP TO B ZQ TO B ZR TO B ZS TO B ZT TO B ZU TO B ZV TO B ZW TO B ZX TO B ZY TO B ZZ TO B A TO B B TO B C TO B D TO B E TO B F TO B G TO B H TO B I TO B J TO B K TO B L TO B M TO B N TO B O TO B P TO B Q TO B R TO B S TO B T TO B U TO B V TO B W TO B X TO B Y TO B Z TO B AA TO B AB TO B AC TO B AD TO B AE TO B AF TO B AG TO B AH TO B AI TO B AJ TO B AK TO B AL TO B AM TO B AN TO B AO TO B AP TO B AQ TO B AR TO B AS TO B AT TO B AU TO B AV TO B AW TO B AX TO B AY TO B AZ TO B BA TO B BB TO B BC TO B BD TO B BE TO B BF TO B BG TO B BH TO B BI TO B BJ TO B BK TO B BL TO B BM TO B BN TO B BO TO B BP TO B BQ TO B BR TO B BS TO B BT TO B BU TO B BV TO B BW TO B BX TO B BY TO B BZ TO B CA TO B CB TO B CC TO B CD TO B CE TO B CF TO B CG TO B CH TO B CI TO B CJ TO B CK TO B CL TO B CM TO B CN TO B CO TO B CP TO B CQ TO B CR TO B CS TO B CT TO B CU TO B CV TO B CW TO B CX TO B CY TO B CZ TO B DA TO B DB TO B DC TO B DD TO B DE TO B DF TO B DG TO B DH TO B DI TO B DJ TO B DK TO B DL TO B DM TO B DN TO B DO TO B DP TO B DQ TO B DR TO B DS TO B DT TO B DU TO B DV TO B DW TO B DX TO B DY TO B DZ TO B EA TO B EB TO B EC TO B ED TO B EE TO B EF TO B EG TO B EH TO B EI TO B EJ TO B EK TO B EL TO B EM TO B EN TO B EO TO B EP TO B EQ TO B ER TO B ES TO B ET TO B EU TO B EV TO B EW TO B EX TO B EY TO B EZ TO B FA TO B FB TO B FC TO B FD TO B FE TO B FF TO B FG TO B FH TO B FI TO B FJ TO B FK TO B FL TO B FM TO B FN TO B FO TO B FP TO B FQ TO B FR TO B FS TO B FT TO B FU TO B FV TO B FW TO B FX TO B FY TO B FZ TO B GA TO B GB TO B GC TO B GD TO B GE TO B GF TO B GG TO B GH TO B GI TO B GJ TO B GK TO B GL TO B GM TO B GN TO B GO TO B GP TO B GQ TO B GR TO B GS TO B GT TO B GU TO B GV TO B GW TO B GX TO B GY TO B GZ TO B HA TO B HB TO B HC TO B HD TO B HE TO B HF TO B HG TO B HH TO B HI TO B HJ TO B HK TO B HL TO B HM TO B HN TO B HO TO B HP TO B HQ TO B HR TO B HS TO B HT TO B HU TO B HV TO B HW TO B HX TO B HY TO B HZ TO B IA TO B IB TO B IC TO B ID TO B IE TO B IF TO B IG TO B IH TO B II TO B IJ TO B IK TO B IL TO B IM TO B IN TO B IO TO B IP TO B IQ TO B IR TO B IS TO B IT TO B IU TO B IV TO B IW TO B IX TO B IY TO B IZ TO B JA TO B JB TO B JC TO B JD TO B JE TO B JF TO B JG TO B JH TO B JI TO B JJ TO B JK TO B JL TO B JM TO B JN TO B JO TO B JP TO B JQ TO B JR TO B JS TO B JT TO B JU TO B JV TO B JW TO B JX TO B JY TO B JZ TO B KA TO B KB TO B KC TO B KD TO B KE TO B KF TO B KG TO B KH TO B KI TO B KJ TO B KK TO B KL TO B KM TO B KN TO B KO TO B KP TO B KQ TO B KR TO B KS TO B KT TO B KU TO B KV TO B KW TO B KX TO B KY TO B KZ TO B LA TO B LB TO B LC TO B LD TO B LE TO B LF TO B LG TO B LH TO B LI TO B LJ TO B LK TO B LL TO B LM TO B LN TO B LO TO B LP TO B LQ TO B LR TO B LS TO B LT TO B LU TO B LV TO B LW TO B LX TO B LY TO B LZ TO B MA TO B MB TO B MC TO B MD TO B ME TO B MF TO B MG TO B MH TO B MI TO B MJ TO B MK TO B ML TO B MM TO B MN TO B MO TO B MP TO B MQ TO B MR TO B MS TO B MT TO B MU TO B MV TO B MW TO B MX TO B MY TO B MZ TO B NA TO B NB TO B NC TO B ND TO B NE TO B NF TO B NG TO B NH TO B NI TO B NJ TO B NK TO B NL TO B NM TO B NN TO B NO TO B NP TO B NQ TO B NR TO B NS TO B NT TO B NU TO B NV TO B NW TO B NX TO B NY TO B NZ TO B OA TO B OB TO B OC TO B OD TO

[illegible]

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING