

TYPICAL LEVEL RAIL CONNECTIONS

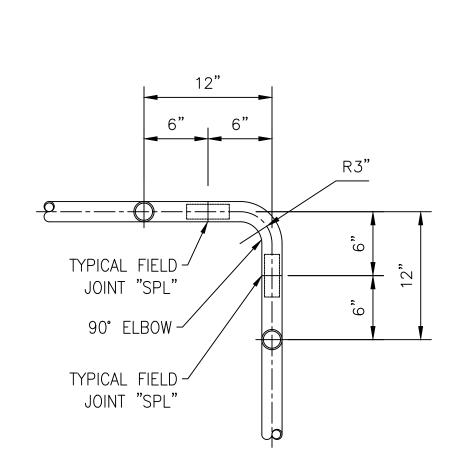
STD. RAKE FITTING "BPT40" (DEGREE WILL VARY) SHOP ATTACH TO POST USING #17 X 1 1/2" W/ DOME WASHER 1 1/2"ø (SCH. 40) AND TO RAIL USING ALUM. PIPE (TYP.) (2) 1/4"ø #20X3/4" PHILLIPS FLAT HEAD "C-F BOLT (COUNTERSUNK) ERECTOR NOTE: TO INSTALL TCF BOLTS DRILL A 13/64" PILOT HOLE -STD. RAKE FITTING "BPT40" WITH A 1/2" (DEGREE WILL VARY) SHOP COUNTERSINK ATTACH TO POST USING (1) #17 S.S. TEK-SCREW X FOR #17 1 1/2" LG. W/ DOME WASHER TEK-SCREW USE AND TO RAIL USING 1/4"ø HOLE TOP END POST (2) 1/4"ø #20X3/4" PHILLIPS FLAT HEAD TC-F BOLT (COUNTERSUNK) LINE POST

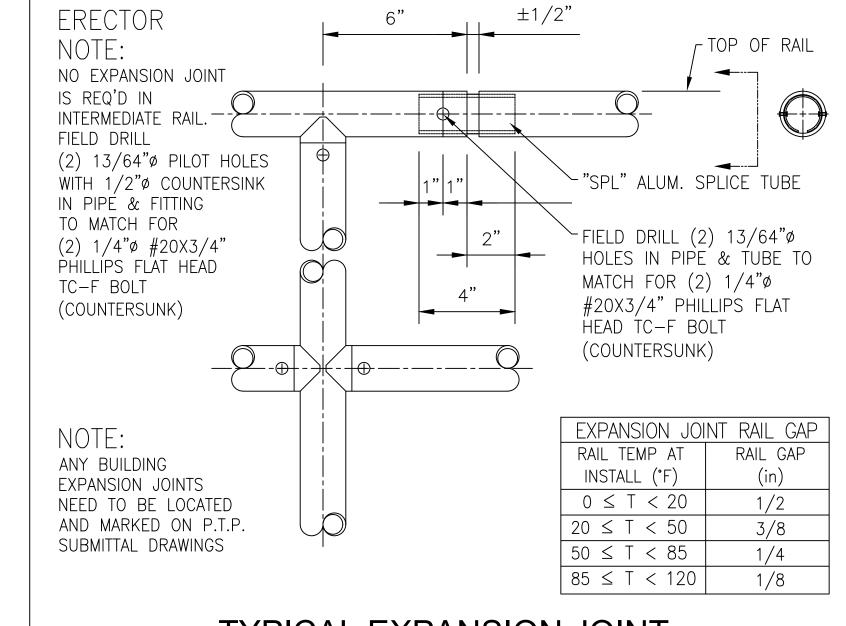
18" TYP 12" (U.N.O.) R3" _____ TYPICAL "SPL" SPLICE -----Q-

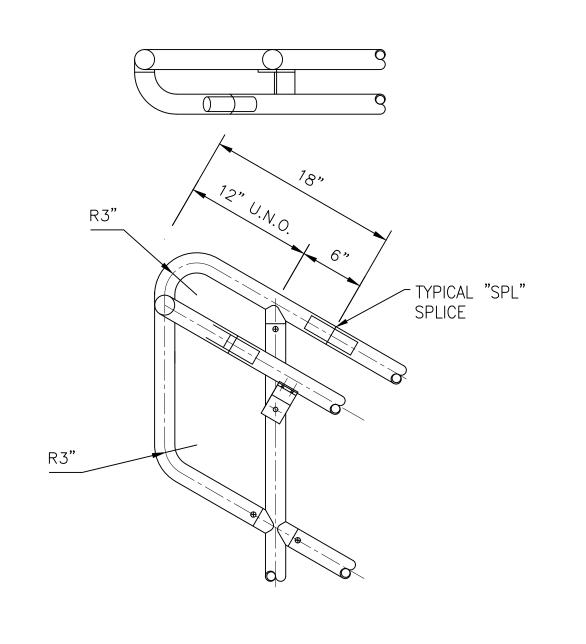
LEVEL P-END SHOP ASSEMBLE

TYPICAL SLOPED RAIL CONNECTIONS





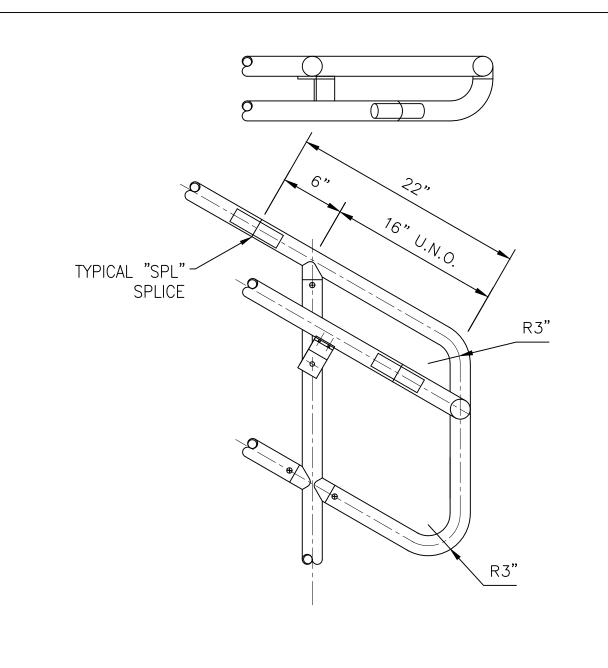




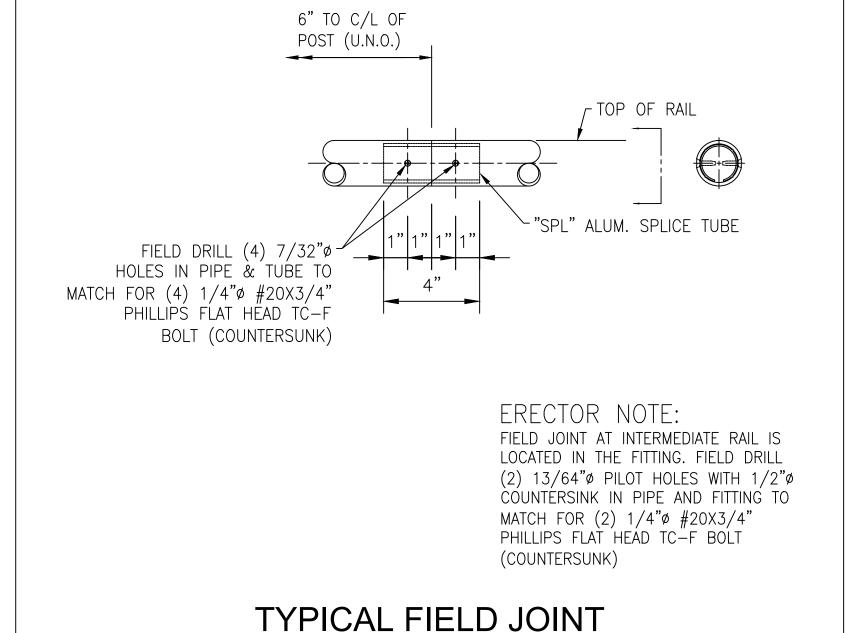
TYPICAL CORNER SHOP ASSEMBLE

TYPICAL EXPANSION JOINT (LOCATED AT BUILDING EXPANSION JOINT & AT 24'-0" MAX. O/C)

TOP RAKE P-END SHOP ASSEMBLE



BOTTOM RAKE P-END SHOP ASSEMBLE



(LOCATED AS NEEDED FOR STRUCTURAL STABILITY)



EXPANSION JOINT & FIELD SPLICE

NOTICE TO CONTRACTOR AND ERECTOR BACK CHARGES FOR CORRECTIVE WORK OR REPLACEMENT MATERIALS WILL NOT BE ACCEPTED UNLESS AUTHORIZED BY PEAK TO PEAK ENGINEERED RAILINGS, INC. BEFORE SUCH COSTS ARE INCURRED

STANDARD DETAILS

CITY, ST ALUMINUM HANDRAIL - TCF SYSTEM - SHOP ASSEMBLED

ALGORITATION TO GIG TEN GIG AGGENETED								
DESIGNER DESIGNER		CUSTOMER	CUSTOMER		DWG TITLE	STANDARD DETAILS		
CUSTOMER JOB#		XXXX-XX	PRINT DATE	3/13/2020	ISSUE DATE	3/13/2020	CONTRACT NO	DRAWING NO.
DETAILED BY		INT	CHECKER	INT	SCALE	NTS	XXX-XXX	SD-1

"SPL" ALUM. SPLICE TUBE

(COUNTERSUNK)

-1/4"ø #20X3/4" PHILLIPS FLAT HEAD TC-F BOLTS

6. ALL RAILING SURFACES IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL RECEIVE ONE 1/16" THICK NEOPRENE GASKET (SHIPPED LOOSE FOR FIELD ATTACHMENT)

7. ALL BOLTS, NUTS, AND FLAT WASHERS USED TO MOUNT RAILINGS TO FLOORS, WALLS, STEEL, ETC. ARE BY PTP ENGINEERED RAILINGS

4. ALL EXTRUDED COMPONENTS ARE 6005A-T61 ALLOY, CAST COMPONENTS ARE 535 ALLOY

5. ALL FASTENERS (SELF TAPPING SCREWS, MACHINE BOLTS, ADHESIVE ANCHORS, ETC.) TO

GENERAL NOTES

2. ALL RAILS ARE TO BE FABRICATED FROM 1 1/2"ø (SCH. 40) ALUMINUM PIPE

3. ALL POSTS ARE TO BE FABRICATED FROM 1 1/2"ø (SCH. 40) ALUMINUM PIPE

1. ALL RAIL IS TO BE OF MECHANICAL CONSTRUCTION U.N.O.

(6005A-T61 ALLOY) (U.N.O.)

(6005A-T61 ALLOY) (U.N.O.)

BF 304 STAINLESS STEFL

8. ALL KICK PLATES ("FKP" OR "SKP) SHALL BE SHIPPED LOOSE IN 24'-0" LG. STOCK LENGTHS OR SMALLER FOR FIELD CUTTING & DRILLING AS NEEDED

9. ALL PANELS ARE FURNISHED IN ASSEMBLED SECTIONS UP TO 24'-0" LG. (MAX.)

10. PIPE FOR CURVED RAIL IS FURNISHED SUB-ASSEMBLED IN 21'-0" (MAX). ROLLED LENGTHS FOR FIELD CUTTING & DRILLING AS NEEDED ** ALL RADII MUST BE VERIFIED PRIOR TO FABRICATION **

11. ALL CURVED RAIL SHALL BE FABRICATED USING CURVED TOP AND INTERMEDIATE RAILS

12. PIPE FOR SINGLE LINE RAIL IS FURNISHED & SHIPPED SUB-ASSEMBLED.

13. BENDS WITH A 3" C/L RADIUS ARE FURNISHED AS NEEDED & MUST BE FIELD CUT FOR

14. ALL RAIL WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED OSHA REQUIREMENTS

15. MAX. POST SPACING TO BE 6'-0" C/C

16. ALL RAIL IS TO BE FINISHED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S DESIGNATION M10C22A41 OR M12C22A4

17. PIPE FOR CANTILEVER RAILING WILL SHIP LOOSE IN UP TO 24'-0" STOCK LENGTHS FOR FIELD CUTTING AND DRILLING AS NEEDED

18. ENSURE ALL FIELD CUTS AND FIELD DRILLED HOLES ARE CLEANED UP, FREE OF SHARP EDGES AND BURRS.

19. CONCRETE ANCHOR TYPE IS HILTI HIT-RE 500 V3 ADHESIVE ANCHORS. CONCRETE STRENGTH IS ASSUMED TO BE 4000 PSI, NORMAL WEIGHT CRACKED CONCRETE.

20. ALL DIMENSIONS SHOWN THROUGHOUT THIS SET ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BEFORE FABRICATION AND INSTALLATION

%% = SEE ERECTION DRAWINGS FOR PART NUMBER

