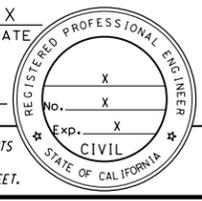


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
DDDD	CCCC	RRRR	PPPP	????	####
REGISTERED CIVIL ENGINEER			X	DATE	
MM/DD/YYYY					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.					



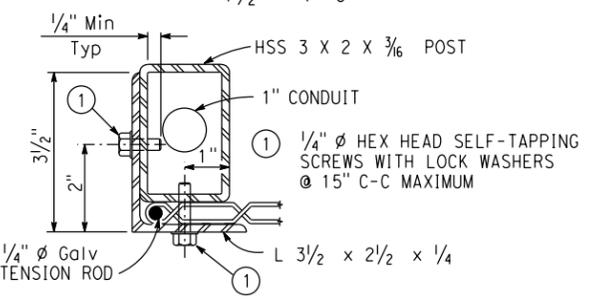
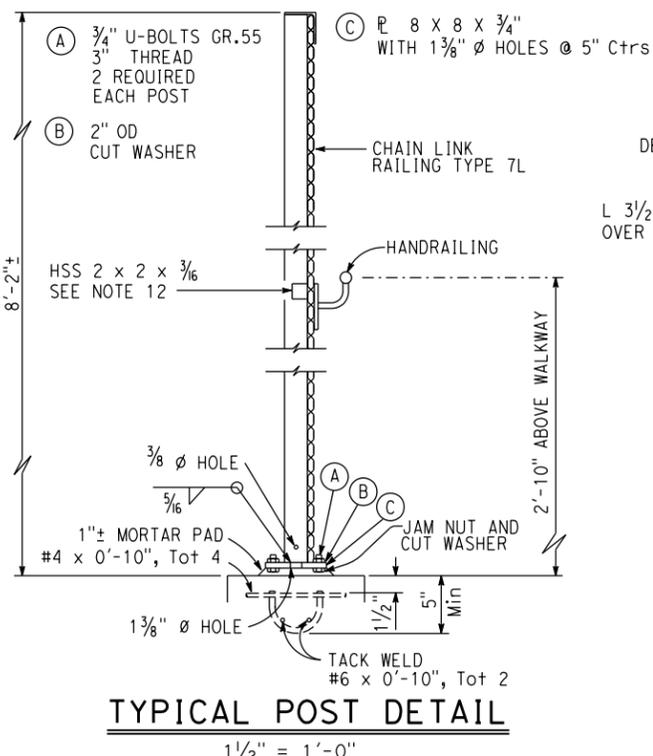
GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications, 8th Edition 2017 with California Amendments April 2019

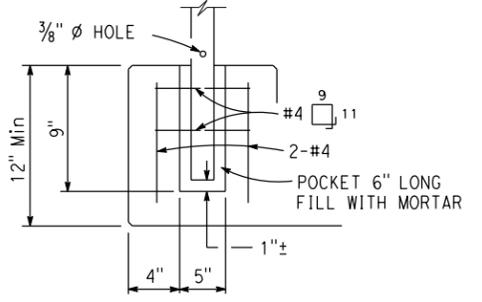
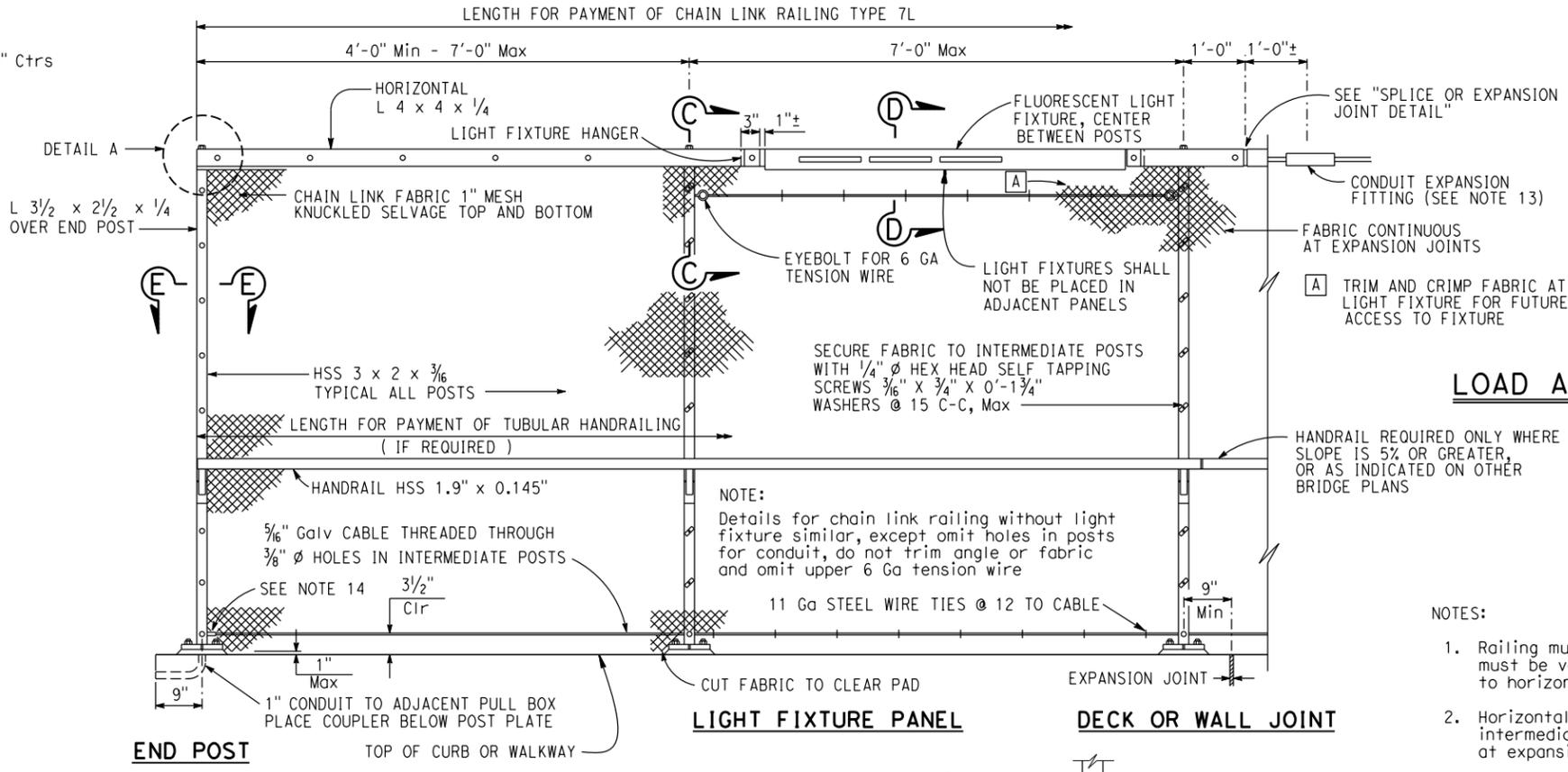
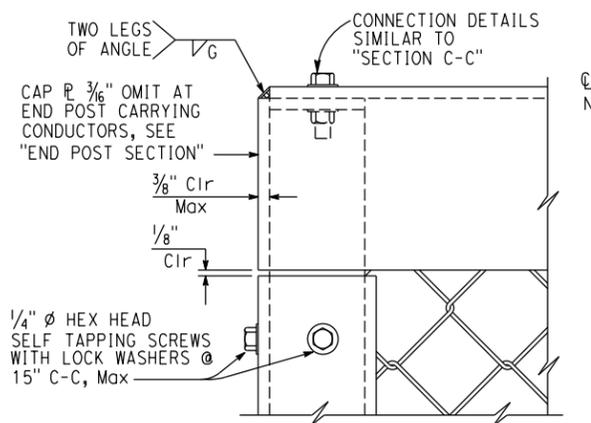
CONCRETE:
 $f_y = 60\text{ksi}$ $f'_c = 3.6\text{ksi}$

STRUCTURAL STEEL:
HSS: $f_y = 50\text{ksi}$

- NOTES:
- Railing must conform to horizontal and vertical alignment. Post must be vertical. Horizontal angle must be bent to conform to horizontal alignment if radius is 150'-0" or less.
 - Horizontal angle must be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints and other rail discontinuities.
 - When railing is placed on curved horizontal alignment with radius of 150'-0" or less, drill 1/2" x 3" deep hole in slab and set in epoxy adhesives 3/8" ϕ welded eyebolt for 5/16" cable to limit the midordinate distance between the 5/16" cable and curve to be 1" maximum.
 - Place fabric parallel to slope.
 - Alternative details may be submitted by the Contractor for Engineer's approval.
 - Provide thimbles at all cable loops.
 - See Standard Plan ES-12A "ELECTRICAL SYSTEMS (PEDESTRIAN OVERCROSSING FLUORESCENT LIGHTING FIXTURE)" for details not shown.
 - Handrail tube continuous over two or more supports.
 - Peen all exposed bolts.
 - Electrical details for corner post are similar to those shown. Fabric to be trimmed and crimped around handhole.
 - Conduit holes in posts will vary with slope of structure.
 - HSS 2 x 2 x 3/16, required for curves with radius of 150'-0" or less. Bend to conform to curve.
 - Conduit expansion fitting to be required at deck or wall expansion joints with movement ratings greater than 1".
 - Anchor 5/16" galvanized cable at end post with 1/2" ϕ stud socket assembly or 1/2" ϕ welded eyebolt and crimped sleeve clamp. Provide 1/2" minimum take-up at each anchorage.
 - Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice ℓ length correspondingly.
 - Design valid for bridges with the top of chain link railing type 7L equal to or less than 220' height above surrounding ground surfaces.
 - For "SECTION C-C" and "SECTION D-D", see "CHAIN LINK RAILING TYPE 7L- DETAILS No.2" sheet.

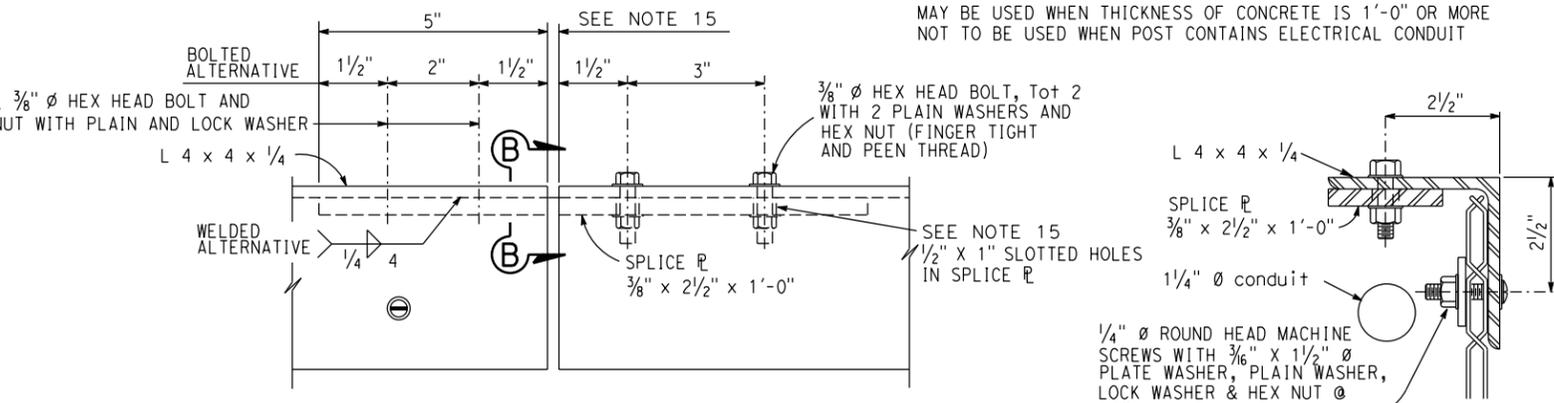


NOTE: Holes (For self-tapping screws) in end post must be drilled before conduits are in place



ALTERNATIVE ANCHORAGE DETAIL

MAY BE USED WHEN THICKNESS OF CONCRETE IS 1'-0" OR MORE NOT TO BE USED WHEN POST CONTAINS ELECTRICAL CONDUIT



SECTION B-B

6" = 1'-0"

BRIDGE STANDARD DETAILS		
xs16-210-1	July 2020	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California
FILE NO.	APPROVAL DATE	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE No. _____
POST MILE _____

CHAIN LINK RAILING TYPE 7L	
DETAILS No.1	