EXPANSION FITTING INSTALLATION POSITION TABLE	
INSTALLATION PERIOD	% OF MAXIMUM EXPANSION RANGE
December to February	80%
March to May and September to November	50%
June to August	20%

THREADED ROD SIZE "A"	B	C	D	G	H	J
7/8"	8"	11"	5 1/2"	1/2"	4 1/4"	1 1/2"

LEGEND:

-·-·-·- Existing Structure

MEA - Mechanical Expansion Anchor

NOTES:

1. All mounting hardware and mounting brackets shall be protected against corrosion.
2. For SEISMIC BRACE details, see "COMMUNICATION CONDUIT Alt (Exist UTILITY OPENING)" sheet. When alternating sides is not possible, bracing to only one side is acceptable.
3. For expansion fitting installation, see "EXPANSION FITTING INSTALLATION POSITION TABLE."

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

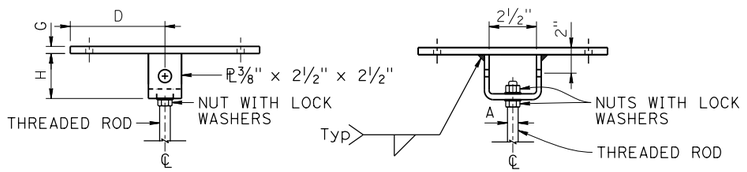
REGISTERED CIVIL ENGINEER — DATE X

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

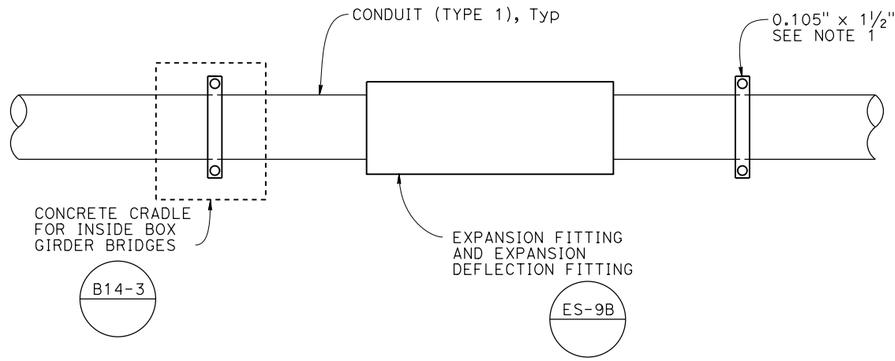
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.

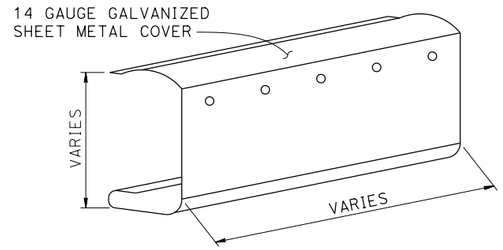


SECTION A-A
NO SCALE

SECTION B-B
NO SCALE



EXPANSION FITTING PLAN
NO SCALE



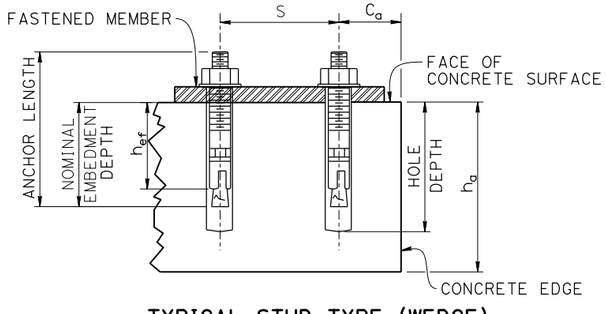
NOTE:

Backplate not shown for clarity. See "COMMUNICATION CONDUIT Alt (BARRIER)" sheet.

OPTIONAL COVER DETAIL
NO SCALE

MOUNTING BRACKET
NO SCALE

CONDUIT HANGER SUPPORT DETAILS
NO SCALE



TYPICAL STUD TYPE (WEDGE)

STUD MEA
NO SCALE

CONCRETE ANCHORAGE REQUIREMENTS				
Anchor Diameter (in)	Minimum Effective Embedment h_{ef} (in)	Minimum Concrete Thickness h_a (in)	Minimum Edge Distance C_a (in)	Minimum Anchor Spacing S (in)
1/2*	2	6	4	6
	3 1/4	6	4	4

* = Alternative embedment depths for 1/2" anchor.

BRIDGE STANDARD DETAILS		
xs20-020-5 (FILE NO.)	MAY 2023 (APPROVAL DATE)	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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE No. XX-XXXX
POST MILE X.X

COMMUNICATION CONDUIT Alt (ATTACHMENT DETAILS)

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

DATE PLOTTED => 8-JUN-2023 TIME PLOTTED => 11:56
FILE => 20230112_xs20-020-5.dgn USERNAME => s151015
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: XXXX
PROJECT NUMBER & PHASE: XXXXXXXXXX1

COUNTY/ROUTE: XXX/XXX
CONTRACT No.: XX-XXXXX4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
				X	X