

**NOTES**  
 CONDUIT SHALL BE EMBEDDED 2" CLEAR.  
 USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.  
 CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.  
 CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.  
 2'-0" MIN. CONDUIT COVER UNDER ROADWAYS, 1'-6" OTHERWISE, CONDUIT COVER SHOULD NOT EXCEED 3'-0".  
 PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

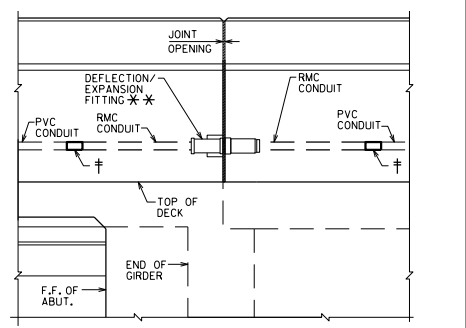
**DESIGNER NOTES**  
 THIS STANDARD ACCOMMODATES A MAXIMUM 8" TOTAL MOVEMENT AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION, SEE BRIDGE MANUAL SECTION 32.6 FOR ADDITIONAL INFORMATION.  
 PLANS SHALL SPECIFY SIZE, TYPE, AND LOCATION FOR CONDUIT, JUNCTION BOXES, AND FITTINGS, SEE TABLE BELOW FOR CONDUIT FITTING RECOMMENDATIONS.

**LEGEND**  
 ■ USE 2" DIA. RIGID METALLIC (RMC) CONDUIT AT FITTINGS, PROVIDE RMC FOR 3'-0" MIN. ON EACH SIDE OF JOINT OPENINGS UNLESS NOTED OTHERWISE.  
 † NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTER FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED).  
 ◀ SPONGE RUBBER WRAP TO BE AASHTO M153 TYPE 1 OR EQUIVALENT - 1/2" MINIMUM THICKNESS, PROVIDE WRAP FOR THE ENTIRE LENGTH OF THE FITTING OR AS SHOWN, SPONGE RUBBER WRAP INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".  
 ● POSITION MOVABLE END OF CONDUIT INSIDE EXPANSION FITTING, SUCH THAT IT WILL HAVE THE SAME ALLOWANCE FOR MOVEMENT (EXPANSION/CONTRACTION) AS THE EXPANSION DEVICE SET IN PLACE IN THE DECK BELOW IT, TAKE CARE TO INSTALL EXPANSION FITTING AND CONDUIT EXACTLY PARALLEL TO BRIDGE MOVEMENT.  
 \* EXPANSION FITTING REQUIREMENTS (IF USED):  
 • 4" TOTAL CONDUIT MOVEMENT WITH BONDING JUMPER  
 • 8" TOTAL CONDUIT MOVEMENT WITH BONDING JUMPER  
 \* DEFLECTION/EXPANSION FITTING REQUIREMENTS (IF USED):  
 • UP TO 3/4" CONDUIT CONTRACTION OR EXPANSION AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION WITH BONDING JUMPER

**CONDUIT FITTING RECOMMENDATIONS TABLE:**

LOCATION	JOINT TYPE	REQUIREMENT	FITTING TYPE
BRIDGE	FIXED	NONE	NONE - RUN PVC CONDUIT THRU JOINT
		$X < 3/4"$	DEFL./EXP. FITTING
	SEMI-EXP.	$3/4" \leq X < 4"$	4" EXP. FITTING
		$X < 4"$	DEFL./EXP. AND 4" EXP. FITTING
	EXPANSION	$4" \leq X < 8"$	DEFL./EXP. AND 4" EXP. FITTING
$X \geq 8"$		DEFL./EXP. AND 8" EXP. FITTING	
WALL	CONTRACTION	NONE	NONE - RUN PVC CONDUIT THRU JOINT
	EXPANSION	$L < 90$ FEET	DEFL./EXP. FITTING

X = TOTAL ANTICIPATED LONGITUDINAL JOINT MOVEMENT  
 L = DISTANCE BETWEEN EXPANSION JOINTS  
 S = SKEW



**OUTSIDE ELEVATION OF PARAPET AT SEMI-EXP JOINT**  
 (SHOWING CONDUIT SYSTEM FOR  $X \geq 3/4"$  WITHOUT STRUCTURAL APPROACH SLAB)

**CONDUIT DETAILS AND NOTES**

**BUREAU OF STRUCTURES**

APPROVED: Bill Oliva DATE: 7-17