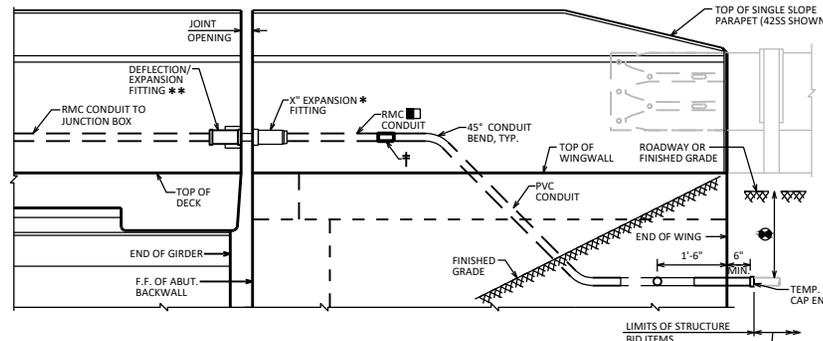
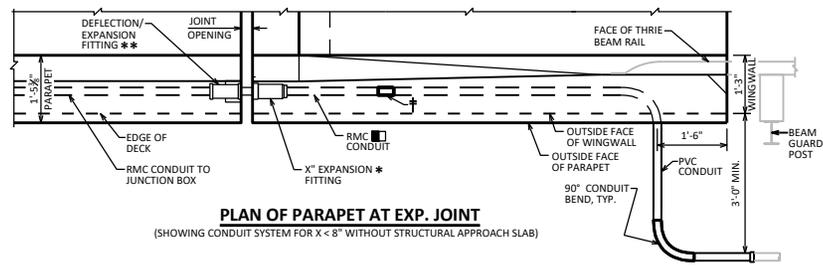
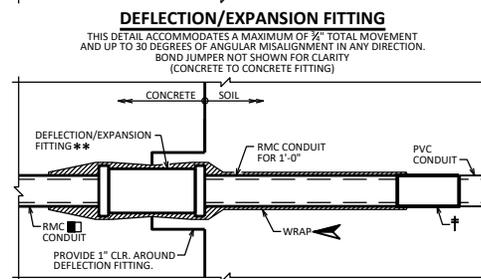
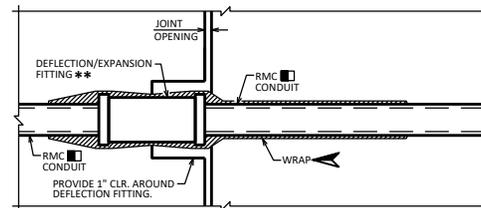


OUTSIDE ELEVATION OF PARAPET AT SEMI-EXP. JOINT
(SHOWING CONDUIT SYSTEM FOR $X < \frac{3}{2}$ " WITH STRUCTURAL APPROACH SLAB)



OUTSIDE ELEVATION OF PARAPET AT EXP. JOINT
(SHOWING CONDUIT SYSTEM FOR $X < 8$ " WITHOUT STRUCTURAL APPROACH SLAB)



DEFLECTION/EXPANSION FITTING
THIS DETAIL ACCOMMODATES A MAXIMUM OF $\frac{3}{2}$ " TOTAL MOVEMENT AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION. BOND JUMPER NOT SHOWN FOR CLARITY (CONCRETE TO SOIL FITTING)

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.
- 3'-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.

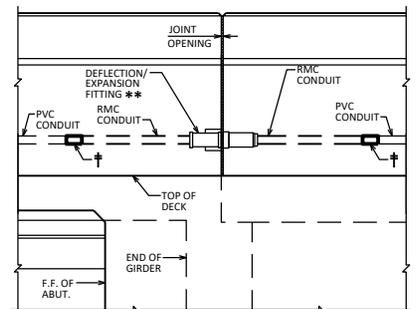
LEGEND

- 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 - $\frac{1}{2}$ " 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 $\frac{3}{2}$ " 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 DEFL./EXP. FITTING	
	SEMI-EXP.	$X < \frac{3}{2}$ "	4" EXP. FITTING	
		$\frac{3}{2}$ " $\leq X < 4$ "	$S < 30'$ $S \geq 30'$	4" EXP. FITTING DEFL./EXP. AND 4" EXP. FITTING
	EXPANSION	$X < 4$ "		DEFL./EXP. AND 4" EXP. FITTING
		$4" \leq X < 8$ "		DEFL./EXP. AND 8" EXP. FITTING CONSIDER FLEXIBLE METAL CONDUIT SYSTEM (NOT SHOWN)
	$X \geq 8$ "			
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 $X \geq \frac{3}{2}$ " WITHOUT STRUCTURAL APPROACH SLAB)

CONDUIT DETAILS AND NOTES



APPROVED: *Laura Shadewald*

DATE:
7-17