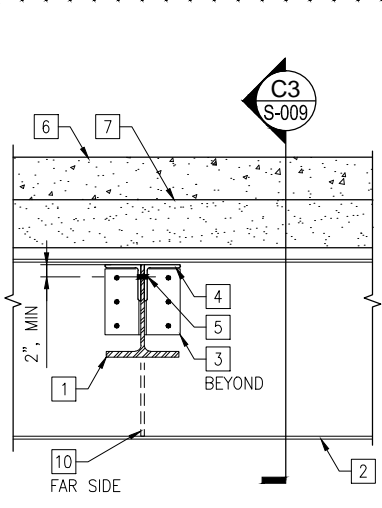
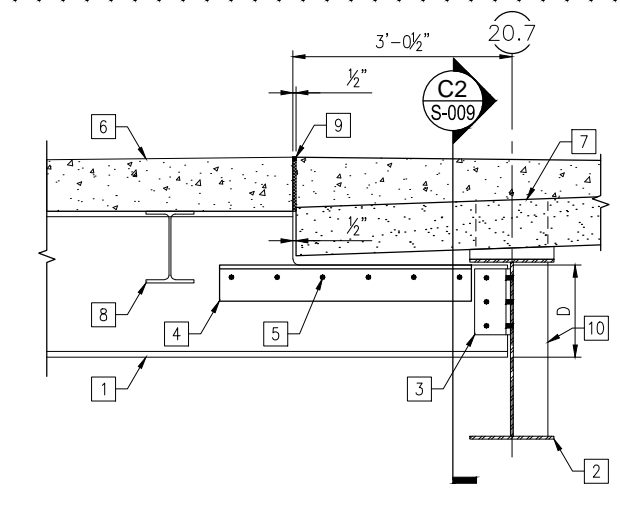


C1 CTA STATION CONNECTION
3/4" = 1'-0"

- KEYED NOTES (C1):**
- EXISTING 24WF STEEL BEAM. COPE TOP FLANGE TO CLEAR PRECAST PANEL SLABS FROM BRIDGE CONSTRUCTION. SEE SHEET 167 OF THE BRIDGE DOCUMENTS TO DETERMINE AMOUNT OF COPING REQUIRED AT EACH BEAM.
 - EXISTING CONCRETE.
 - NEW PRECAST PANELS. SEE BRIDGE DOCUMENTS FOR DETAILS.
 - NEW BRIDGE FASCIA PLATE GIRDER. SEE BRIDGE DOCUMENTS FOR DETAILS.
 - REINFORCED END CONDITION IN ACCORDANCE WITH SECTION C3/S-009.
 - W21x68 TEMPORARY SHORING BEAM, (2) REQUIRED.
 - W18x35 DIAPHRAGM BEAM UNDER EACH EXISTING STATION FLOOR FRAMING BEAM.
 - 6x6 SHIM PLATES, THICKNESS AS REQUIRED FOR FULL BEARING AT MID-DISTANCE BETWEEN W21x68 SHORING BEAMS. PROVIDE BEAM KEEPER CONNECTION, EACH SIDE.
 - EXISTING 12WF40 STATION FLOOR FRAMING BEAM.
 - TYPICAL SHEAR CONNECTION SEE C1/S-600.
 - W12x53 CROSS BEAM AT SHORING TOWER.
 - (4) 7/8"Ø BOLTS AT EACH BEARING LOCATION.
 - 1/2" STIFFNER PLATE, EACH SIDE, OF WEB AT EACH BEARING LOCATION. SEE B4/S-006



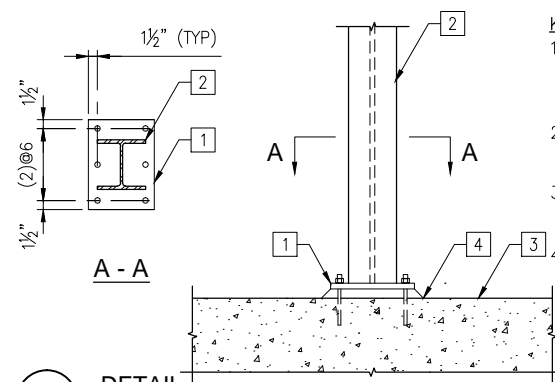
C2 CTA STATION CONNECTION
3/4" = 1'-0"



DO NOT COPE EXISTING BEAMS OR DRILL HOLES FOR NEW REINFORCING ANGLES TO EXISTING FLOOR FRAMING UNTIL AFTER THE STATION FRAMING HAS BEEN SHORED.

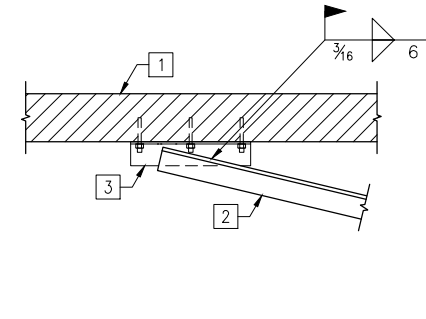
C3 CTA STATION CONNECTION
3/4" = 1'-0"

- KEYED NOTES (B1 AND B2):**
- EXISTING STEEL BEAM. COPE TOP FLANGE TO CLEAR PRECAST PANEL SLABS FROM BRIDGE CONSTRUCTION. COPE BEAM AFTER REINFORCING ANGLES HAVE BEEN INSTALLED.
 - NEW EXTERIOR FASCIA PLATE GIRDER BEAM. SEE SHEET 167 OF NEW BRIDGE DESIGN DOCUMENTS FOR PLATE GIRDER SIZE.
 - END BEAM SHEAR CONNECTION. SEE SHEET 167 OF THE BRIDGE DESIGN DOCUMENTS FOR CONNECTION DESIGN.
 - L6x6x1/2" x 3-6 REINFORCING ANGLE ON EACH SIDE. SEE BRIDGE DRAWINGS FOR REQUIRED COPE DEPTH. THE REINFORCED WEB HAS BEEN DESIGNED FOR A MINIMUM DEPTH, D, EQUAL TO 15.31". NOTIFY THE EOR IF THE ACTUAL DEPTH, D, IS REQUIRED TO BE LESS THAN 15.31".
 - PROVIDE (6) 3/4"Ø BOLTS, EQUALLY SPACED STARTING 2" FROM EACH END.
 - TOPPING CONCRETE. SEE BRIDGE DOCUMENTS FOR CRITERIA.
 - NEW PRECAST PANELS. SEE BRIDGE DOCUMENTS FOR DETAILS.
 - EXISTING 12WF40 STATION FLOOR FRAMING BEAM.
 - 1/2" EXPANSION JOINT MATERIAL. PROVIDE JOINT SEALANT AT TOP OF JOINT.
 - STIFFENER PLATE AT EACH CONNECTION LOCATION. SEE SHEET 167 OF THE BRIDGE DESIGN DOCUMENTS FOR STIFFENER PLATE SIZE.

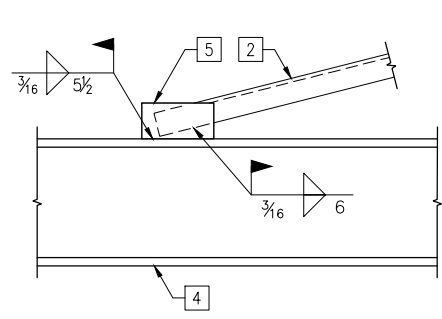


B1 DETAIL
3/4" = 1'-0"

- KEYED NOTES (B1):**
- Ø 3/4" x 11 x 1-3 WITH (6) 1/2"Ø EXPANSION ANCHORS WITH 4 1/2" EMBEDMENT.
 - W8x48 TEMPORARY SHORING COLUMN.
 - EXISTING CONCRETE PLATFORM.
 - 1/2" NON-SHRINK, NON-METALLIC GROUT.

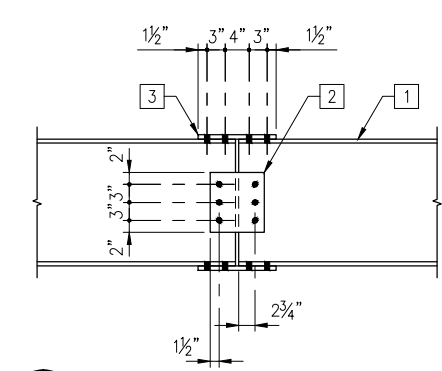


B2 DETAIL
3/4" = 1'-0"



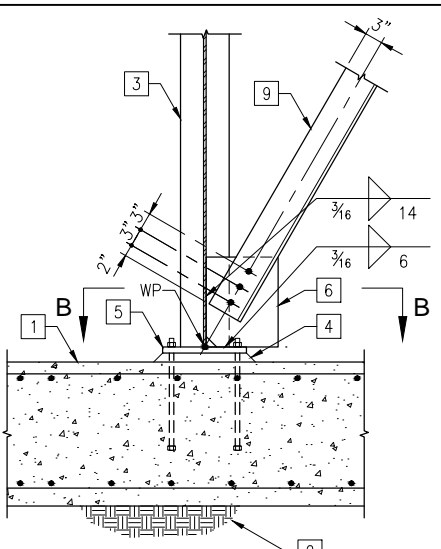
B3 DETAIL
3/4" = 1'-0"

- KEYED NOTES (B2, B3):**
- EXISTING CONCRETE DECK.
 - L4x4x3/8 DIAGONAL X-BRACING. SEE S-007 FOR LOCATION.
 - L6x4x3/8 (LLV) x 1-8 WITH (3) 1/2"Ø EXPANSION ANCHORS @ 8" O.C. EMBEDDED 4 1/2" INTO EXISTING CONCRETE DECK.
 - W21x68 TEMPORARY SHORING BEAM.
 - Ø 3/8" x 6 x 1-0

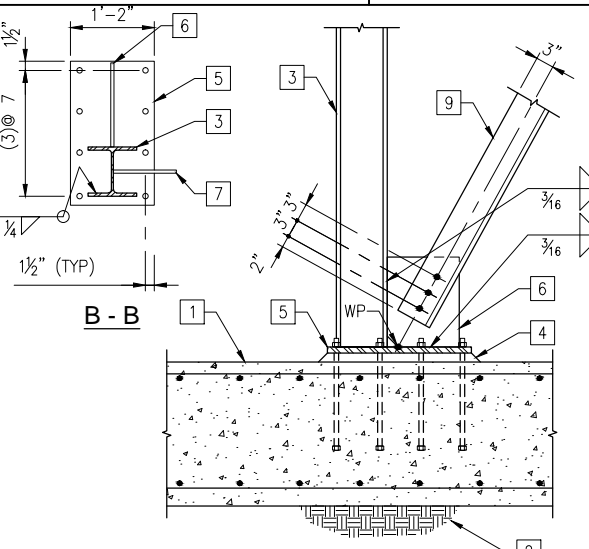


B4 DETAIL
3/4" = 1'-0"

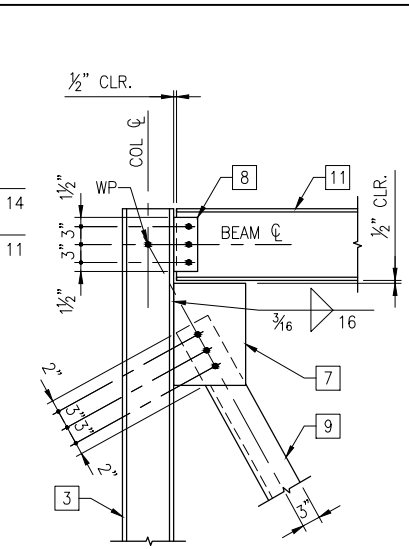
- KEYED NOTES (B4):**
- W21x68 SHORING BEAM.
 - Ø 3/8" x 9 x 0-10 WITH (3) 3/4"Ø BOLTS, EACH SIDE.
 - Ø 3/4" x 8 x 1-1 WITH (8) 3/4"Ø BOLTS, TOP AND BOTTOM.



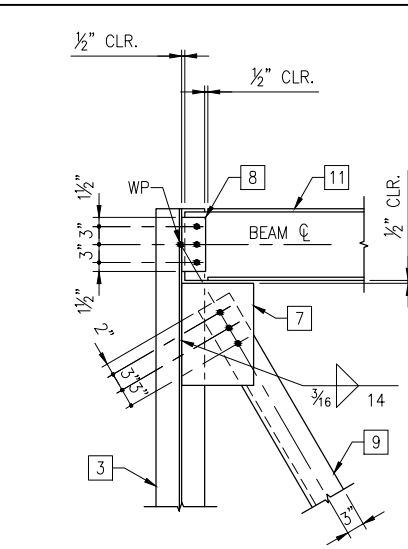
A1 DETAIL
3/4" = 1'-0"



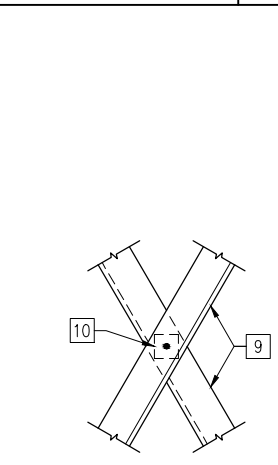
A2 DETAIL
3/4" = 1'-0"



A3 DETAIL
3/4" = 1'-0"

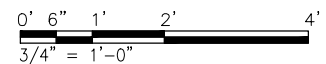


A4 DETAIL
3/4" = 1'-0"



A5 DETAIL
3/4" = 1'-0"

- KEYED NOTES (A1 THRU A5):**
- CONCRETE MAT FOUNDATION. SEE SHEET S-008 FOR FOUNDATION THICKNESS AND REINFORCING.
 - COMPACTED SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. CONTRACTOR SHALL VERIFY THROUGH ON-SITE GEOTECHNICAL TESTING THAT SUBGRADE HAS BEEN COMPACTED SUFFICIENTLY TO PROVIDE A 2,000 PSF BEARING CAPACITY.
 - W8x48 SHORING COLUMN.
 - 1/2" NON-SHRINK, NON-METALLIC GROUT.
 - Ø 1x14 x 2-0 WITH (8) 3/4"Ø HEX HEAD ANCHOR RODS. EMBEDDED 14" INTO MAT FOUNDATION.
 - Ø 1/2" x 12 x 1-3 WITH (3) 3/4"Ø BOLTS.
 - Ø 1/2" x 12 x 1-5 WITH (3) 3/4"Ø BOLTS.
 - TYPICAL SHEAR CONNECTION. SEE C1/S-600.
 - L6x6x3/8 DIAGONAL BRACE.
 - 1/2" FILL PLATE WITH (1) 7/8"Ø BOLT.
 - W12x53 SHORING BEAM.



TranSystems	USER NAME = MAC	DESIGNED KLT	REVISED A 1/20/2014
	PLOT SCALE =	CHECKED AB	REVISED ---
	PLOT DATE = 10/28/13	DRAWN MAC	REVISED ---
		CHECKED KLT	REVISED ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEORIA STREET STATION
SHORING DETAILS
SHEET NO. S-009 OF 117 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	200
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT FED. AID PROJECT	