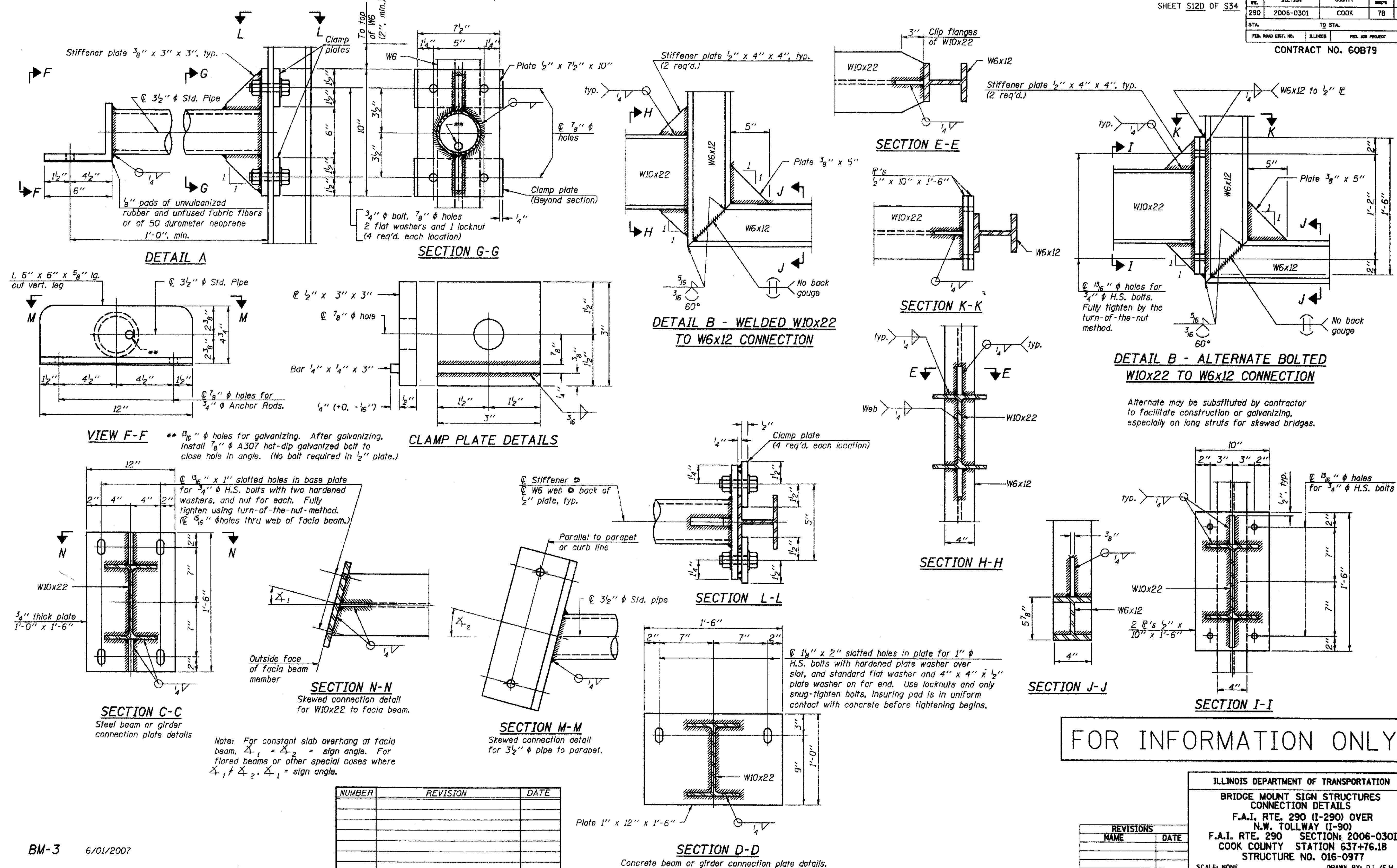
SHEET S12D OF S34

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	49D

CONTRACT NO. 60B79



DETAIL A
Stiffener plate 3/8" x 3" x 3", typ.
Clamp plates
℄ 3½" ϕ Std. Pipe
1/8" pads of unvulcanized rubber and unfused fabric fibers or of 50 durometer neoprene 1'-0", min.
To top of W6 (2", min.)
SECTION G-G
Plate ½" x 7½" x 10"
℄ 7/8" ϕ holes
Clamp plate (Beyond section)
3/4" ϕ bolt, 7/8" ϕ holes 2 flat washers and 1 locknut (4 req'd. each location)
VIEW F-F
L 6" x 6" x 5/8" lg. cut vert. leg
℄ 7/8" ϕ holes for 3/4" ϕ Anchor Rods.
** 13/16" ϕ holes for galvanizing. After galvanizing, install 7/8" ϕ A307 hot-dip galvanized bolt to close hole in angle. (No bolt required in ½" plate.)
CLAMP PLATE DETAILS
℗ ½" x 3" x 3"
℄ 7/8" ϕ hole
Bar 1/4" x 1/4" x 3"
DETAIL B - WELDED W10x22 TO W6x12 CONNECTION
Stiffener plate ½" x 4" x 4", typ. (2 req'd.)
Plate 3/8" x 5"
No back gouge
SECTION E-E
3" Clip flanges of W10x22
SECTION K-K
℗'s ½" x 10" x 1'-6"
SECTION H-H
DETAIL B - ALTERNATE BOLTED W10x22 TO W6x12 CONNECTION
℄ 13/16" ϕ holes for 3/4" ϕ H.S. bolts. Fully tighten by the turn-of-the-nut method.
Alternate may be substituted by contractor to facilitate construction or galvanizing, especially on long struts for skewed bridges.
SECTION C-C
Steel beam or girder connection plate details
℄ 13/16" x 1" slotted holes in base plate for 3/4" ϕ H.S. bolts with two hardened washers, and nut for each. Fully tighten using turn-of-the-nut-method. (℄ 13/16" ϕholes thru web of facia beam.)
3/4" thick plate 1'-0" x 1'-6"
SECTION N-N
Skewed connection detail for W10x22 to facia beam.
Outside face of facia beam member
Note: For constant slab overhang at facia beam, ∡1 = ∡2 = sign angle. For flared beams or other special cases where ∡1 ≠ ∡2, ∡1 = sign angle.
SECTION M-M
Skewed connection detail for 3½" ϕ pipe to parapet.
Parallel to parapet or curb line
SECTION L-L
℄ Stiffener & ℄ W6 web & back of ½" plate, typ.
Clamp plate (4 req'd. each location)
SECTION D-D
Concrete beam or girder connection plate details.
℄ 1⅛" x 2" slotted holes in plate for 1" ϕ H.S. bolts with hardened plate washer over slot, and standard flat washer and 4" x 4" x ½" plate washer on far end. Use locknuts and only snug-tighten bolts, insuring pad is in uniform contact with concrete before tightening begins.
Plate 1" x 12" x 1'-6"
SECTION J-J
SECTION I-I
℄ 13/16" ϕ holes for 3/4" ϕ H.S. bolts
2 ℗'s ½" x 10" x 1'-6"

NUMBER	REVISION	DATE

BM-3 6/01/2007

D-91-428-06

FOR INFORMATION ONLY

REVISIONS NAME	DATE

△ ADDED SHEET 6-1-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES CONNECTION DETAILS
F.A.I. RTE. 290 (I-290) OVER N.W. TOLLWAY (I-90)
F.A.I. RTE. 290 SECTION: 2006-0301
COOK COUNTY STATION 637+76.18
STRUCTURE NO. 016-0977

SCALE: NONE DRAWN BY: D.L./F.M.
DATE: MAY 10, 2007 CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS