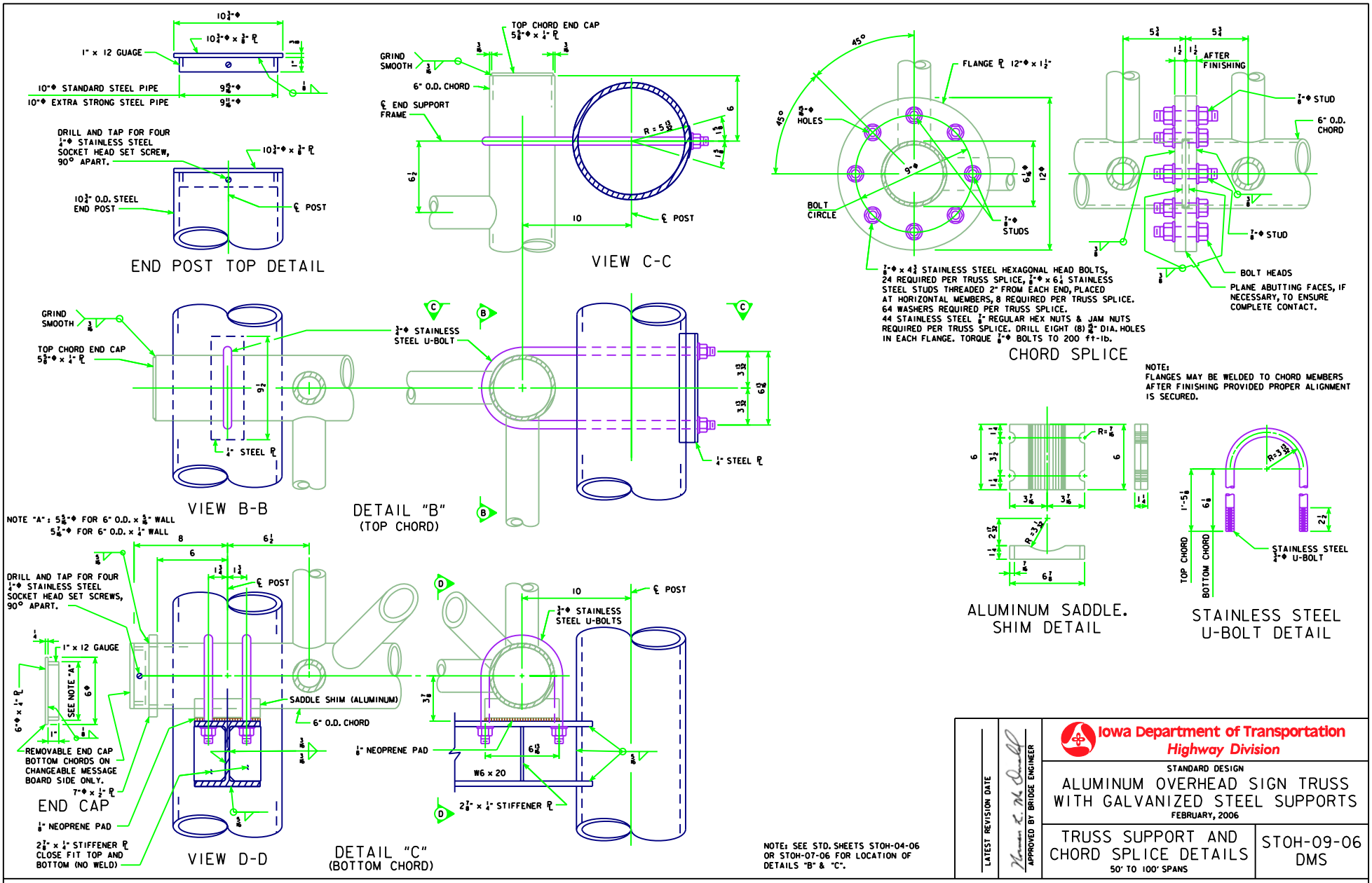
END POST TOP DETAIL
1" x 12 GUAGE
10" STANDARD STEEL PIPE
10" EXTRA STRONG STEEL PIPE
DRILL AND TAP FOR FOUR 1/4"Φ STAINLESS STEEL SOCKET HEAD SET SCREW, 90° APART.
10 3/4" O.D. STEEL END POST
℄ POST
VIEW C-C
TOP CHORD END CAP
GRIND SMOOTH
6" O.D. CHORD
℄ END SUPPORT FRAME
℄ POST
VIEW B-B
GRIND SMOOTH
TOP CHORD END CAP
1/4" STEEL PL
DETAIL "B"
(TOP CHORD)
3/4"Φ STAINLESS STEEL U-BOLT
1/4" STEEL PL
CHORD SPLICE
FLANGE PL 12"Φ x 1 1/2"
HOLES
BOLT CIRCLE
7/8"Φ STUDS
7/8"Φ x 4 3/4 STAINLESS STEEL HEXAGONAL HEAD BOLTS, 24 REQUIRED PER TRUSS SPLICE, 7/8"Φ x 6 1/4 STAINLESS STEEL STUDS THREADED 2" FROM EACH END, PLACED AT HORIZONTAL MEMBERS, 8 REQUIRED PER TRUSS SPLICE. 64 WASHERS REQUIRED PER TRUSS SPLICE. 44 STAINLESS STEEL 7/8" REGULAR HEX NUTS & JAM NUTS REQUIRED PER TRUSS SPLICE. DRILL EIGHT (8) 13/16" DIA. HOLES IN EACH FLANGE. TORQUE 7/8"Φ BOLTS TO 200 ft-lb.
AFTER FINISHING
7/8"Φ STUD
6" O.D. CHORD
BOLT HEADS
PLANE ABUTTING FACES, IF NECESSARY, TO ENSURE COMPLETE CONTACT.
NOTE: FLANGES MAY BE WELDED TO CHORD MEMBERS AFTER FINISHING PROVIDED PROPER ALIGNMENT IS SECURED.
ALUMINUM SADDLE. SHIM DETAIL
STAINLESS STEEL U-BOLT DETAIL
TOP CHORD
BOTTOM CHORD
STAINLESS STEEL 3/4"Φ U-BOLT
NOTE "A": 5 5/8"Φ FOR 6" O.D. x 5/8" WALL
5 7/8"Φ FOR 6" O.D. x 1/4" WALL
DRILL AND TAP FOR FOUR 1/4"Φ STAINLESS STEEL SOCKET HEAD SET SCREWS, 90° APART.
1" x 12 GAUGE
SEE NOTE "A"
REMOVABLE END CAP BOTTOM CHORDS ON CHANGEABLE MESSAGE BOARD SIDE ONLY.
7"Φ x 1/2" PL
END CAP
1/8" NEOPRENE PAD
2 7/8" x 1/4" STIFFENER PL CLOSE FIT TOP AND BOTTOM (NO WELD)
VIEW D-D
SADDLE SHIM (ALUMINUM)
6" O.D. CHORD
DETAIL "C"
(BOTTOM CHORD)
3/4"Φ STAINLESS STEEL U-BOLTS
1/8" NEOPRENE PAD
W6 x 20
2 7/8" x 1/4" STIFFENER PL
NOTE: SEE STD. SHEETS STOH-04-06 OR STOH-07-06 FOR LOCATION OF DETAILS "B" & "C".
LATEST REVISION DATE
APPROVED BY BRIDGE ENGINEER
Iowa Department of Transportation
Highway Division
STANDARD DESIGN
ALUMINUM OVERHEAD SIGN TRUSS WITH GALVANIZED STEEL SUPPORTS
FEBRUARY, 2006
TRUSS SUPPORT AND CHORD SPLICE DETAILS
50' TO 100' SPANS
STOH-09-06
DMS