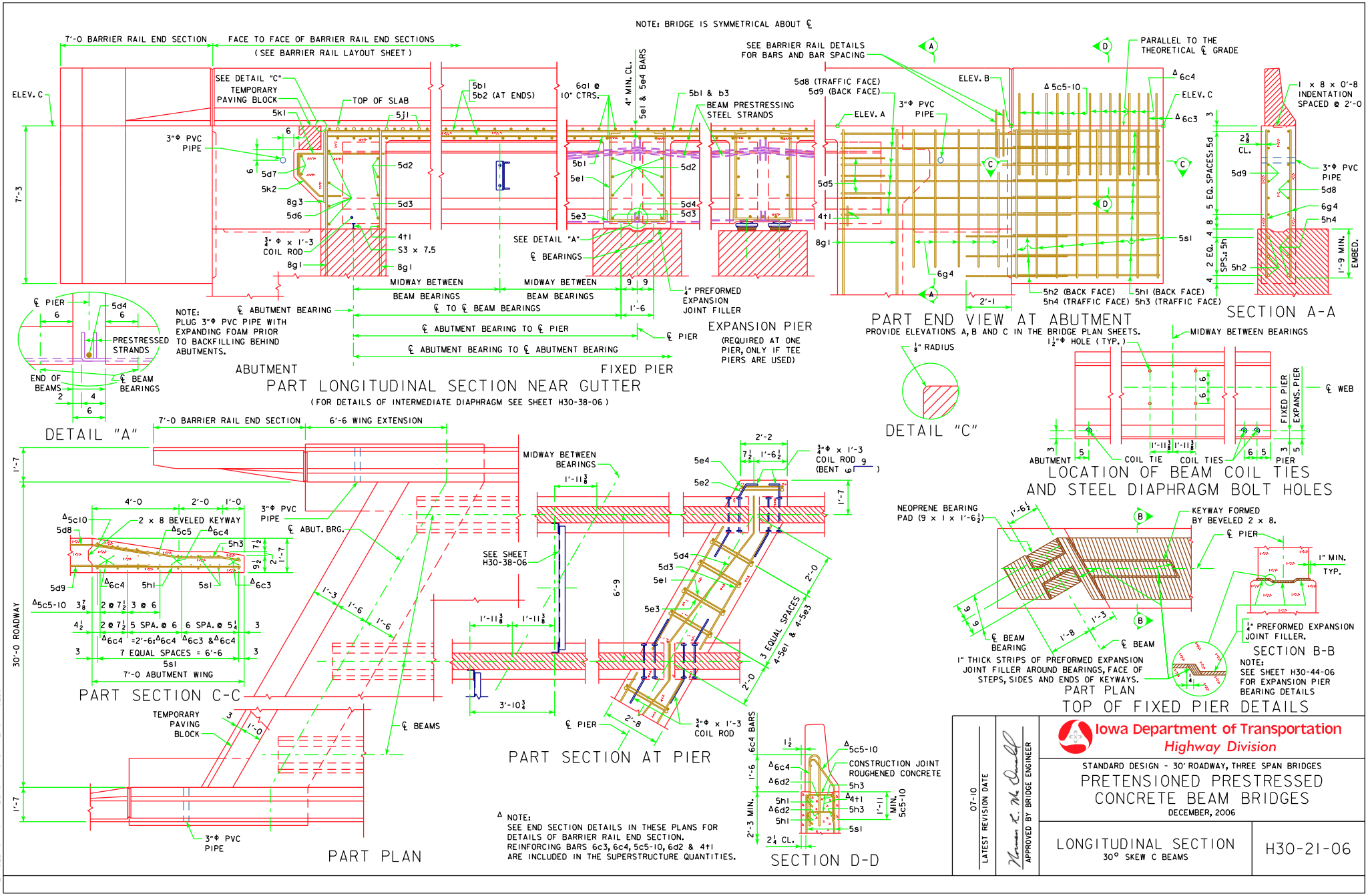
NOTE: BRIDGE IS SYMMETRICAL ABOUT ℄
7'-0 BARRIER RAIL END SECTION
FACE TO FACE OF BARRIER RAIL END SECTIONS
(SEE BARRIER RAIL LAYOUT SHEET)
SEE DETAIL "C"
TEMPORARY PAVING BLOCK
TOP OF SLAB
3"Φ PVC PIPE
¾" Φ x 1'-3 COIL ROD
S3 x 7.5
MIDWAY BETWEEN BEAM BEARINGS
℄ TO ℄ BEAM BEARINGS
℄ ABUTMENT BEARING
℄ ABUTMENT BEARING TO ℄ PIER
℄ ABUTMENT BEARING TO ℄ ABUTMENT BEARING
℄ PIER
NOTE: PLUG 3"Φ PVC PIPE WITH EXPANDING FOAM PRIOR TO BACKFILLING BEHIND ABUTMENTS.
ABUTMENT
FIXED PIER
PART LONGITUDINAL SECTION NEAR GUTTER
(FOR DETAILS OF INTERMEDIATE DIAPHRAGM SEE SHEET H30-38-06)
6a1 @ 10" CTRS.
4" MIN. CL.
5e1 & 5e4 BARS
BEAM PRESTRESSING STEEL STRANDS
SEE DETAIL "A"
℄ BEARINGS
¼" PREFORMED EXPANSION JOINT FILLER
EXPANSION PIER
(REQUIRED AT ONE PIER, ONLY IF TEE PIERS ARE USED)
SEE BARRIER RAIL DETAILS FOR BARS AND BAR SPACING
PARALLEL TO THE THEORETICAL ℄ GRADE
5d8 (TRAFFIC FACE)
5d9 (BACK FACE)
ELEV. A
ELEV. B
ELEV. C
5h2 (BACK FACE)
5h4 (TRAFFIC FACE)
5h1 (BACK FACE)
5h3 (TRAFFIC FACE)
PART END VIEW AT ABUTMENT
PROVIDE ELEVATIONS A, B AND C IN THE BRIDGE PLAN SHEETS.
1 x 8 x 0'-8 INDENTATION SPACED @ 2'-0
5 EQ. SPACES: 5d
2 EQ. SPACES: 5h
1'-9 MIN. EMBED.
SECTION A-A
℄ PIER
PRESTRESSED STRANDS
END OF BEAMS
℄ BEAM BEARINGS
DETAIL "A"
⅛" RADIUS
DETAIL "C"
MIDWAY BETWEEN BEARINGS
1½" Φ HOLE (TYP.)
℄ WEB
FIXED PIER
EXPANS. PIER
ABUTMENT
COIL TIE
COIL TIES
PIER
LOCATION OF BEAM COIL TIES AND STEEL DIAPHRAGM BOLT HOLES
7'-0 BARRIER RAIL END SECTION
6'-6 WING EXTENSION
30'-0 ROADWAY
2 x 8 BEVELED KEYWAY
7'-0 ABUTMENT WING
PART SECTION C-C
℄ ABUT. BRG.
SEE SHEET H30-38-06
℄ BEAMS
TEMPORARY PAVING BLOCK
3"Φ PVC PIPE
PART PLAN
MIDWAY BETWEEN BEARINGS
¾"Φ x 1'-3 COIL ROD (BENT ω)
3 EQUAL SPACES
4-5e1 & 4-5e3
℄ PIER
¾"Φ x 1'-3 COIL ROD
PART SECTION AT PIER
NEOPRENE BEARING PAD (9 x 1 x 1'-6½)
KEYWAY FORMED BY BEVELED 2 x 8.
℄ BEAM BEARING
℄ BEAM
1" THICK STRIPS OF PREFORMED EXPANSION JOINT FILLER AROUND BEARINGS, FACE OF STEPS, SIDES AND ENDS OF KEYWAYS.
PART PLAN
1" MIN. TYP.
¼" PREFORMED EXPANSION JOINT FILLER.
SECTION B-B
NOTE: SEE SHEET H30-44-06 FOR EXPANSION PIER BEARING DETAILS
TOP OF FIXED PIER DETAILS
CONSTRUCTION JOINT ROUGHENED CONCRETE
SECTION D-D
Δ NOTE: SEE END SECTION DETAILS IN THESE PLANS FOR DETAILS OF BARRIER RAIL END SECTION. REINFORCING BARS 6c3, 6c4, 5c5-10, 6d2 & 4t1 ARE INCLUDED IN THE SUPERSTRUCTURE QUANTITIES.
REVISED 07-10 - ABUT. WING SHAPE CHANGED.
07-10
LATEST REVISION DATE
APPROVED BY BRIDGE ENGINEER
Iowa Department of Transportation
Highway Division
STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
DECEMBER, 2006
LONGITUDINAL SECTION
30° SKEW C BEAMS
H30-21-06