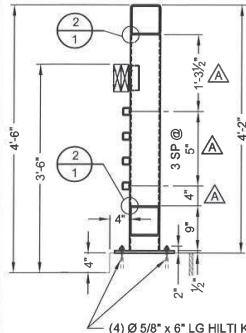
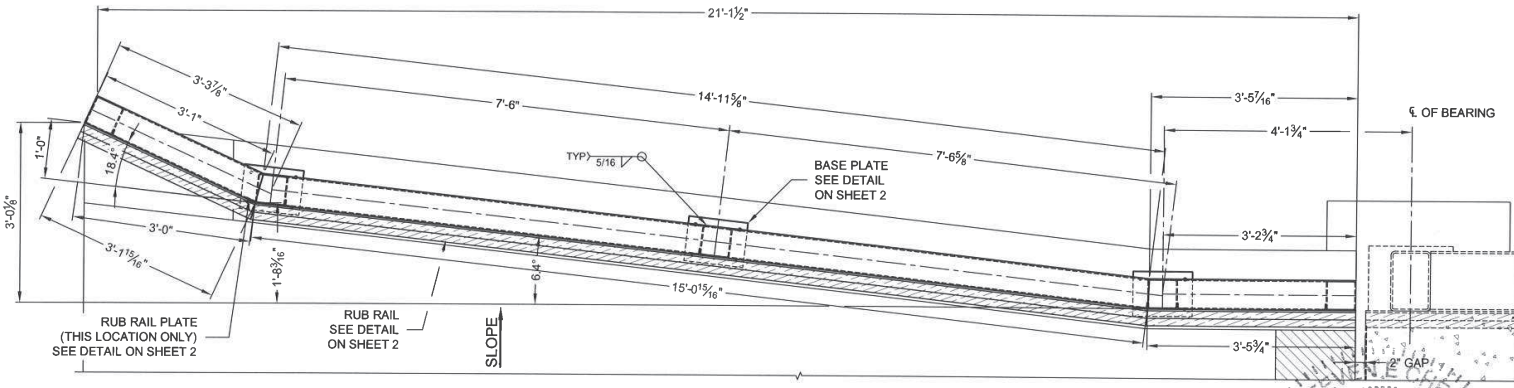
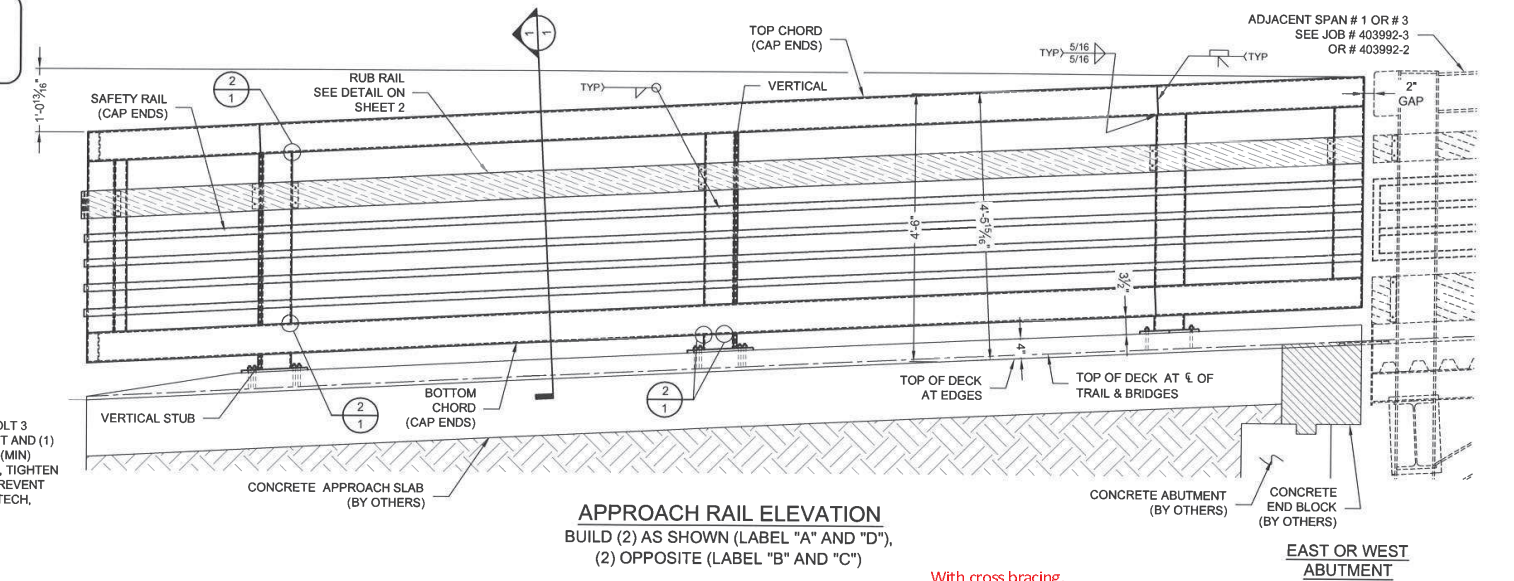


SAFETY RAIL, RUB RAIL & CONCRETE CURB PRODUCE MAXIMUM OPENINGS OF 4" UP TO 27" HEIGHT. 6" MAXIMUM OPENINGS ABOVE 27" HEIGHT.



(4) ϕ 5/8" x 6" LG HILTI KWIK BOLT 3 EXPANSION ANCHOR W/ (1) NUT AND (1) 1 5/16" O.D. WASHER EACH (4" (MIN) EMBEDDED & 2" PROJECTION), TIGHTEN NUT, DAMAGE THREADS TO PREVENT REMOVAL (SUPPLIED BY CONTECH, INSTALLED BY OTHERS).

1 RAIL SECTION



SCHEDULE OF MEMBERS

TOP CHORD	HSS 6 x 6 x 1/4
BOTTOM CHORD	HSS 6 x 6 x 1/4
VERTICAL	HSS 6 x 6 x 1/4
VERTICAL STUB	HSS 6 x 6 x 1/4
SAFETY RAIL	HSS 1 1/2 x 1 1/2 x 1/8

DIMENSIONS GIVEN ALONG HORIZONTAL, UNLESS OTHERWISE NOTED.

MATCHED EDGES OF:
1. VERTICALS TO BOTH CHORDS
2. VERTICAL STUBS TO BOTTOM CHORD
TO BE PARTIAL PENETRATION WELDS.

2 WELD DETAIL

APPROACH RAILS
PAUL BUNYAN STATE TRAIL
PEDESTRIAN BRIDGE
BEMIDJI, MN

BRIDGE #04027
DNR PROJECT # 8T031



MARK	DATE	REVISION DESCRIPTION	BY
A	3/27/12	REV PER ECI	KBK

APPROACH RAILS
PAUL BUNYAN STATE TRAIL
PEDESTRIAN BRIDGE
BEMIDJI, MN

CONTECH
CONSTRUCTION PRODUCTS INC.
800-328-3247
320-462-7700
320-462-7707 FAX
www.contech-cpi.com

DATE: 1/31/2012

DRAWN: KBK

CHECKED: SEC

APPROVED: AKH

PROJECT NO: 403992

SEQUENCE NO: 4

SHEET: 2 OF 2

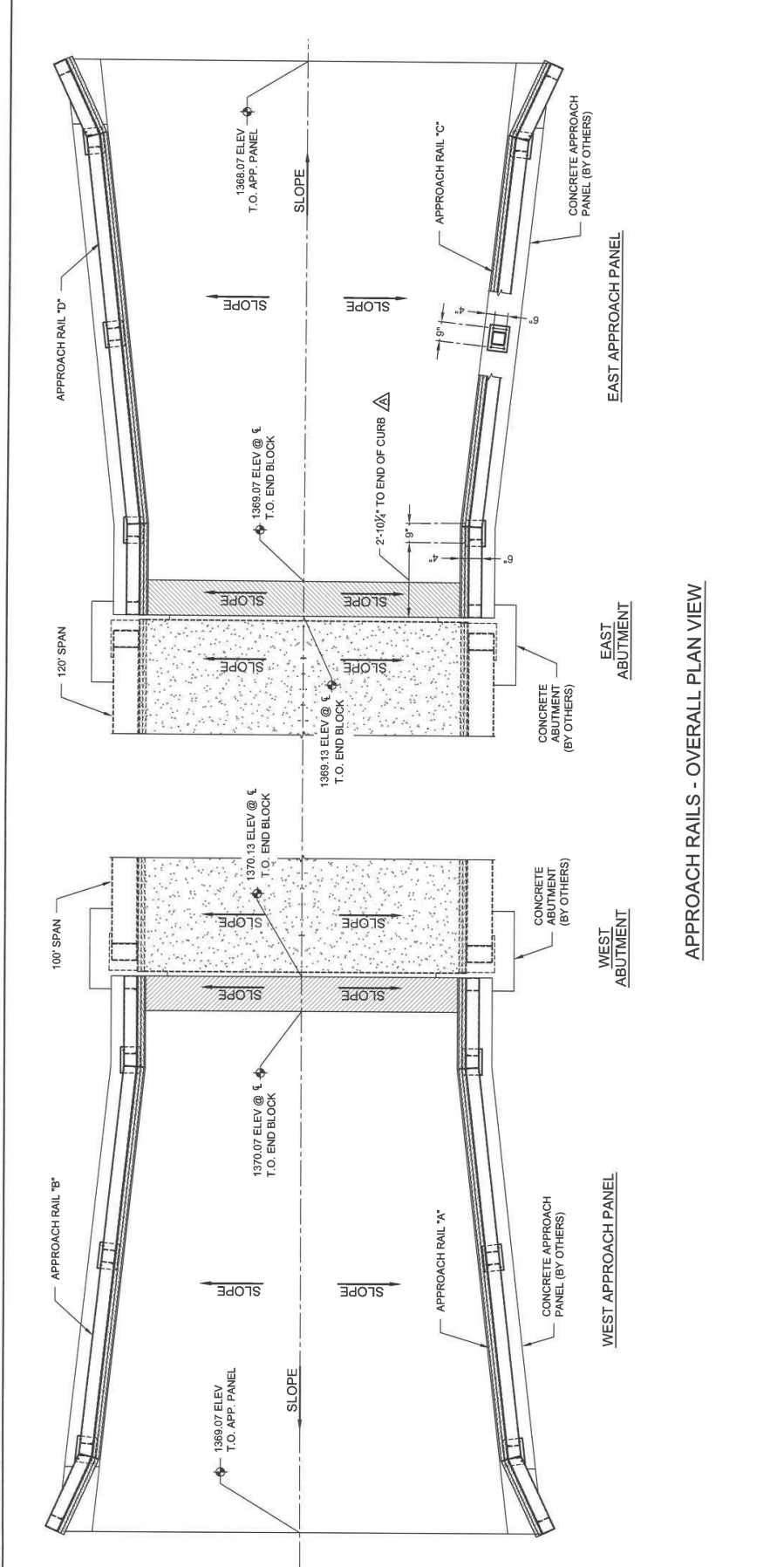
8001 State Highway 20 North, Bemidji, MN 56601

STATE OF MINNESOTA
LICENSED PROFESSIONAL ENGINEER
STEVEN E. CHILL
41366-0000

BRIDGE #04027

DNR PROJECT # 8T031

CONTECH
CONTRACT
DRAWING



RUB RAIL DETAIL

(1) REQD PER ASSEMBLY
(4) TOTAL REQD

2'-4 1/4" TO TOP OF BOTTOM CHORD
3/8"
RUB RAIL
(2) CONTINUOUS NOM 2 x 6 DOUGLAS FIR LARCH PRESSURE TREATED WITH ENVIROSAFE PLUS PRESERVATIVE, S4S
(2) Ø 5/16" x 3 3/4" LG HOT DIP GALV ORG BOLTS AT EACH VERTICAL AND AT CENTER.
L 2 x 2 x 3/16 x 5" LG RUB RAIL CLIP

RUB RAIL PLATE

(1) REQD PER ASSEMBLY
(4) TOTAL REQD

2"
1 1/2"
1"
5"
1"
FLT 2 x 1/4" W. (2) Ø 5/16" HOLES

BASE PLATE DETAIL

(3) REQD PER ASSEMBLY
(12) TOTAL REQD

1'-0"
1 1/2"
9"
1 1/2"
1 1/2"
9"
1 1/2"
VERTICAL STUB
1/2" x 1/4" W. (4) Ø 1 1/16" HOLES
Ø 5/16" TYP