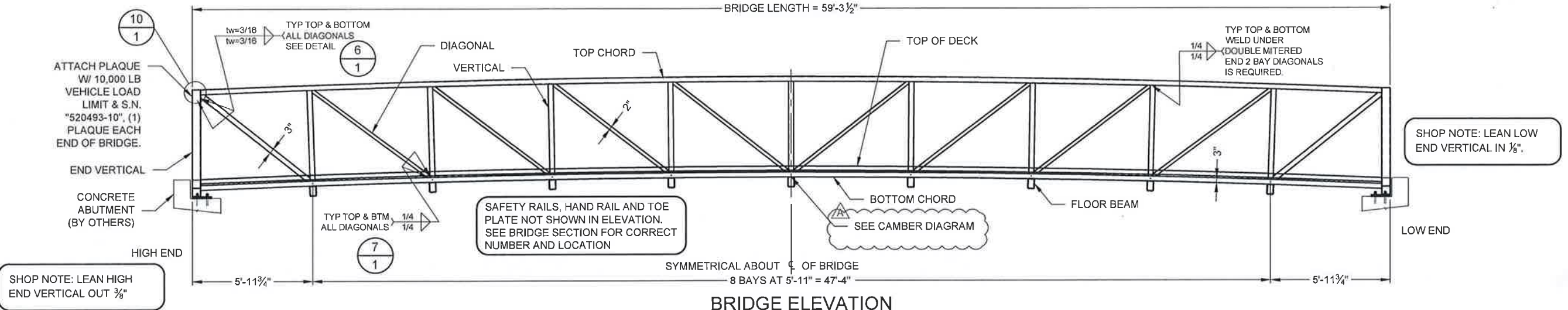
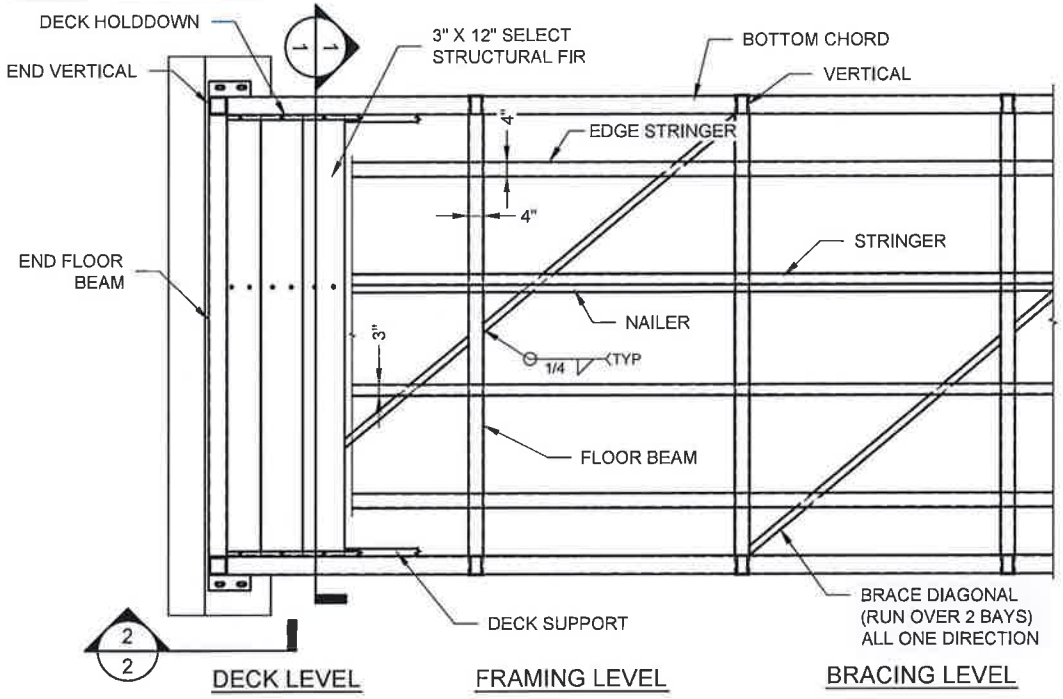


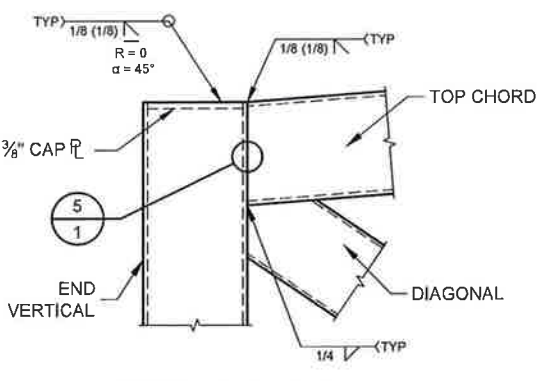
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BRIDGE ELEVATION

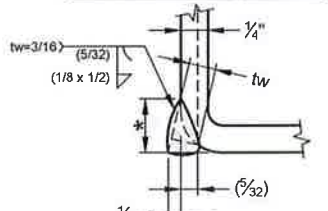


BRIDGE PLAN



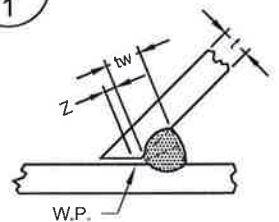
10 WELD DETAIL

NOTE: IF THE OUTSIDE RADIUS OF THE TUBE IS LESS THAN 1.5 TIMES THE WALL THICKNESS, CONTACT THE ENGINEER FOR APPROPRIATE WELD MODIFICATIONS.



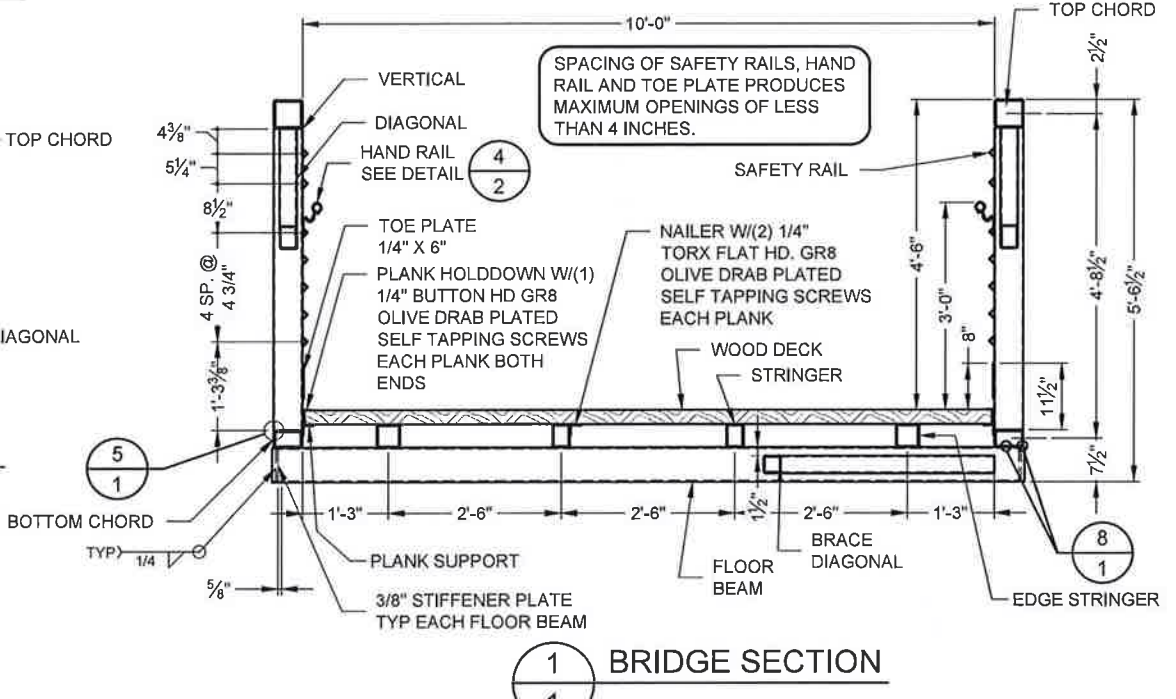
8 WELD DETAIL

1/4" WALL THICKNESS, 3/16" WELD
 * 1/2" MINIMUM OR AS REQUIRED TO FLUSH OUT RADIUS, WHICHEVER IS GREATER

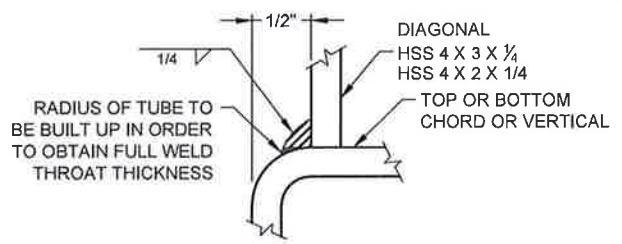


6 WELD DETAIL

Z* LOSS DIMENSION TO BE DETERMINED IN ACCORDANCE WITH AWS D11.1 - TABLE 2.8

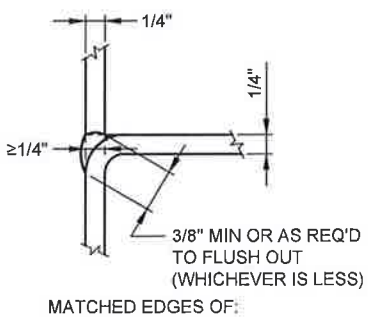


1 BRIDGE SECTION



7 WELD DETAIL

CAUTION:
 WE ARE PROVIDING A WOOD DECK ON THIS STRUCTURE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR THE CONTRACT DOCUMENTS. BE AWARE THAT MOST PEDESTRIAN BRIDGE LIABILITY CLAIMS ARE STATISTICALLY SLIP AND FALL CLAIMS. IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE DECK FREE FROM SLIP OR TRIP HAZARDS DUE TO CUPPING, SPLITS, GAPS AND SMOOTH SURFACES.



5 WELD DETAIL

- MATCHED EDGES OF:
1. VERTICALS TO BOTH CHORDS
 2. TOP & BOTTOM CHORDS TO END VERTICALS
 3. END FLOOR BEAMS TO END VERTICALS

TO BE PARTIAL PENETRATION WELDS.

SCHEDULE OF MEMBERS	
TOP CHORD	HSS 5 x 5 x 1/4
BOTTOM CHORD	HSS 5 x 3 x 1/4
END VERTICAL	HSS 5 x 5 x 1/4
VERTICAL	HSS 5 x 5 x 1/4
DIAGONAL	HSS 3 x 2 x 1/4
BRACE DIAGONAL	HSS 3 x 3 x 1/4
FLOOR BEAM	HSS 6 x 4 x 1/4
STRINGER	HSS 4 x 3 x 1/4
EDGE STRINGER	HSS 4 x 4 x 1/4
END FLOOR BEAM (STACKED)	(2) HSS 5 x 5 x 1/4
SAFETY RAIL	L 1 1/4 x 1 1/4 x 1/8
PLANK HOLDDOWN	L 1 1/4 x 1 1/4 x 1/8
PLANK SUPPORT	L 2 x 2 x 3/16
NAILER	L 2 x 2 x 3/16

① USE HSS 4 X 3 X 1/4 END BAY AND HSS 4 X 2 X 1/4 2ND & 3RD BAYS, TYP BOTH ENDS. DOUBLE MITER ALL DIAGONALS.

MIDBAY SUPPORTS REQUIRED FOR HAND RAIL, TOE PLATE & SAFETY RAIL. USE 1" SQUARE BAR, 1/2" X 1" FLAT BAR AT END 3 BAYS.

CONTECH FABRICATION DRAWING

BRENT A. HULSEY
 Exp. 06/30/17
 CIVIL
 No. 022752

24 July 2015

ASME CERTIFIED FABRICATOR

59'-3 1/2" x 10'-0"
 EAGLE CREEK BRIDGE
 PEDESTRIAN BRIDGE
 CARSON CITY, NV

DATE	7/23/2015
MARK	A
ADDED ELEVATION DIFFERENCE	
REVISION DESCRIPTION	

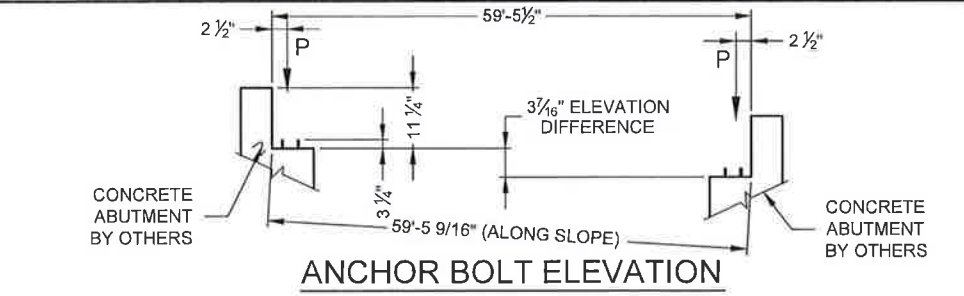
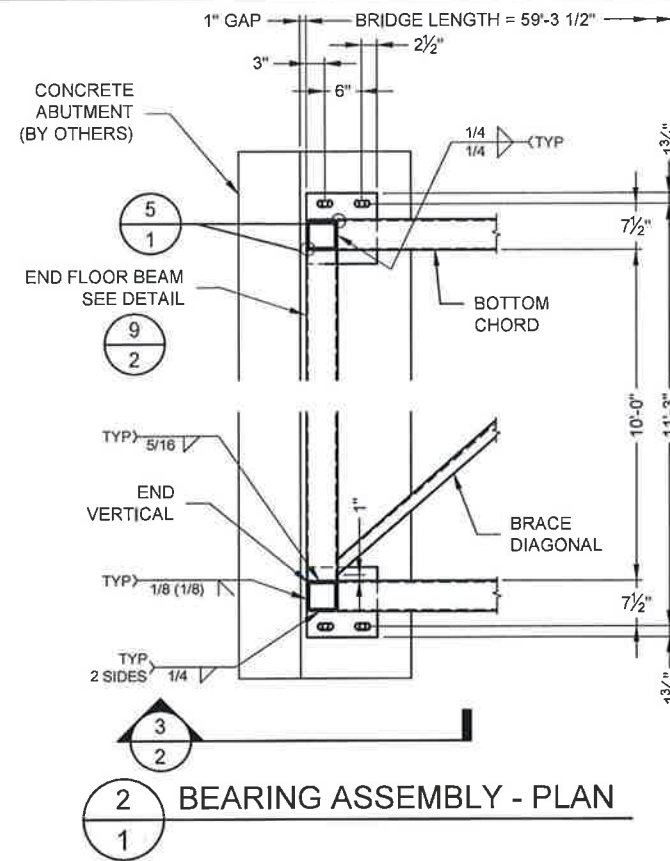
CONTECH CONSTRUCTION PRODUCTS INC.
 www.contech-cpi.com
 8311 State Highway 28 North, Alexandria, MN 55008
 800-328-2247 920-652-7500 320-652-7057 FAX

CONTINENTAL BRIDGE

DATE: 6/6/2015
 DESIGNED: BAH DRAWN: CMA
 CHECKED: SEC APPROVED: BAH
 PROJECT No.: 520493 SEQUENCE No.: 10
 SHEET: 1 OF 2

GENERAL NOTES

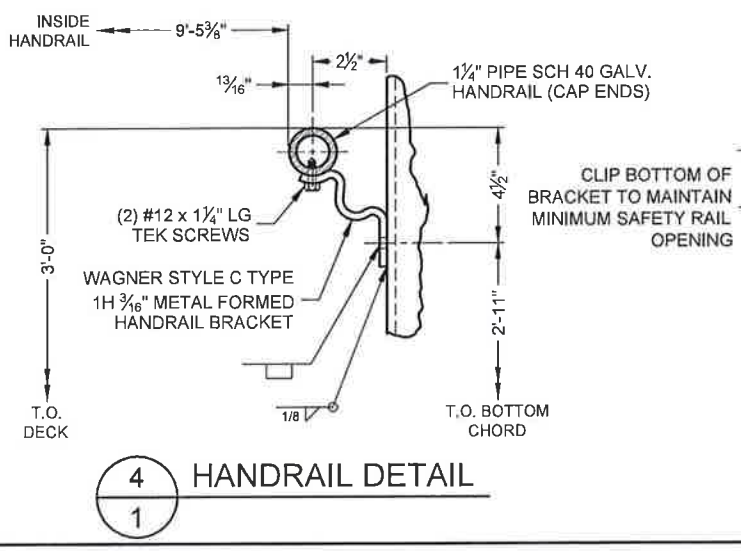
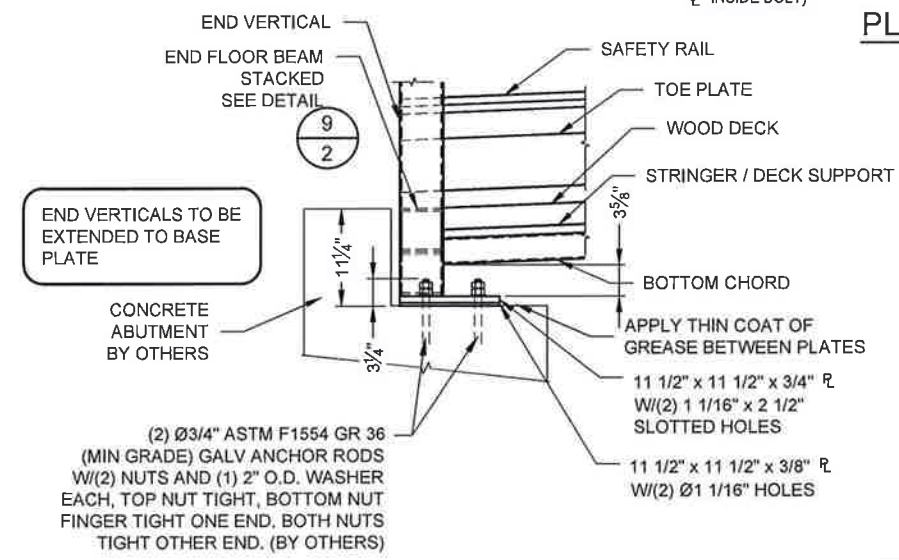
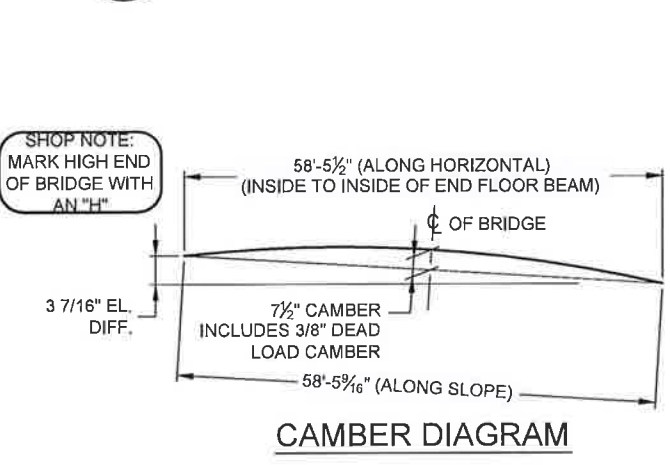
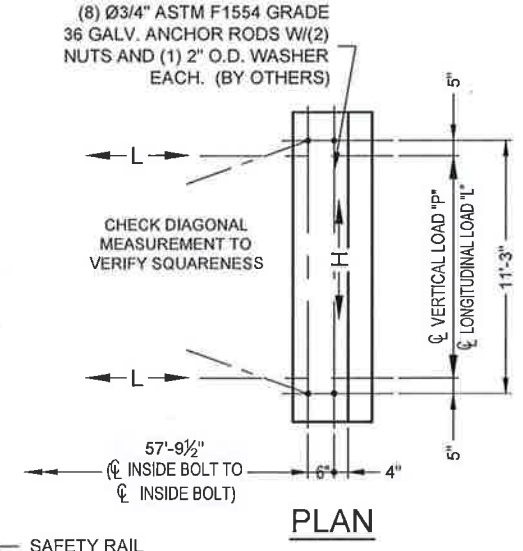
- DESIGN STRESSES ARE IN ACCORDANCE WITH "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" & "GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES" BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS 17th EDITION (AASHTO).
- BRIDGE MEMBERS ARE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A709-50W PLATE AND STRUCTURAL SHAPES (Fy=50,000 PSI).
- BRIDGE DECKING NOMINAL 3-INCH THICK SELECT STRUCTURAL FIR (Fb=1,500 PSI min.). TIMBER DECK MATERIAL SHALL BE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) TO A 0.4 PCF RETENTION OR TO REFUSAL OR AZOLE BIOCIDES (MCA) TO A 0.06 PCF RETENTION OR TO REFUSAL.
- THE GAS METAL ARC WELDING PROCESS OR FLUX CORED ARC WELDING PROCESS WILL BE USED. WELDING TO BE IN ACCORDANCE WITH AWS D1.1.
- ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS. WELD BETWEEN TOP CHORD AND END VERTICAL SHALL BE AS DETAILED.
- UNLESS OTHERWISE NOTED, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) OF A SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAGE MEMBER IN THE CONNECTION. WELDS SHALL BE APPLIED AS FOLLOWS:
 - A. BOTH ENDS OF VERTICALS, DIAGONALS, AND FLOOR BEAMS SHALL BE WELDED ALL AROUND.
 - B. BRACE DIAGONALS WILL BE WELDED ALL AROUND.
 - C. BOTTOM OF STRINGERS WILL BE STITCH WELDED TO TOP OF FLOOR BEAMS.
 - D. MISCELLANEOUS NON-STRUCTURAL MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.
- BRIDGE DESIGN WAS ONLY BASED ON COMBINATIONS OF THE FOLLOWING LOADS WHICH WILL PRODUCE MAXIMUM CRITICAL MEMBER STRESSES.
 - A. 85 PSF UNIFORM LIVE LOADING ON THE FULL DECK AREA OR ONE 10,000 LB VEHICLE LOAD. THE LOAD SHALL BE DISTRIBUTED AS A FOUR-WHEEL VEHICLE WITH 80% OF THE LOAD ON THE REAR WHEELS. THE WHEEL TRACK WIDTH OF THE VEHICLE SHALL BE 6'-0" AND THE WHEEL BASE SHALL BE 10'-0". THE VEHICLE SHALL BE POSITIONED SO AS TO PRODUCE THE MAXIMUM STRESSES IN EACH MEMBER, INCLUDING DECKING.
 - B. 35 PSF WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
 - C. 20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH (AASHTO 3.8.2).
 - D. SNOW LOAD: 30 PSF
- CLEANING: ALL EXPOSED SURFACES OF STEEL SHALL BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACES PREPARATION SPECIFICATIONS NO. 7 BRUSH-OFF BLAST CLEANING. SSPC-SP7-LATEST EDITION.



COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

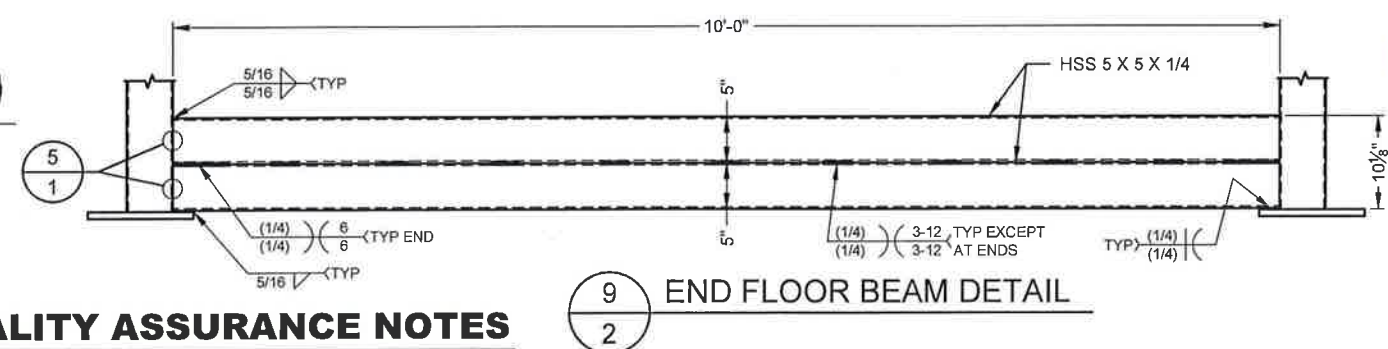
BRIDGE REACTIONS	+ DOWNWARD LOAD - UPWARD LOAD		
	P (LBS)	H (LBS)	L (LBS)
DEAD LOAD	5,500		
UNIFORM LIVE LOAD	12,600		
VEHICLE LOAD	5,000		
WIND UPLIFT 20 PSF	-4,820		
WIND LEEWARD	-1,610		
WIND	±1,790	5,755	
SNOW LOAD	4,450		
THERMAL			1,925

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
 "H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
 "L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)
 BRIDGE LIFTING WEIGHT: 22,000 LBS



QUALITY ASSURANCE NOTES

- ALL WELDS TO BE VISUALLY INSPECTED.



CONTECH FABRICATION DRAWING

BRENTA HULSEY
 Exp. 06/30/17
 CIVIL
 No. 022752

24 July 2015

ASNT CERTIFIED FABRICATOR

59'-3 1/2" x 10'-0"
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DRAWN: CMA
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CONTECH CONSTRUCTION PRODUCTS INC.
 801 State Highway 28 North, Alexandria, MN 56008
 800-328-2047 320-452-7500 320-452-7037 FAX
 www.contech-cpi.com

CONTINENTAL BRIDGE

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