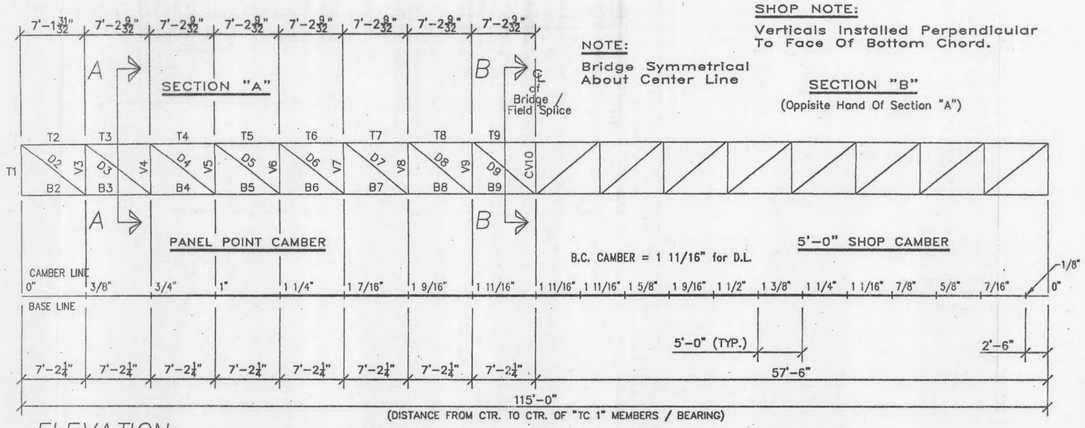
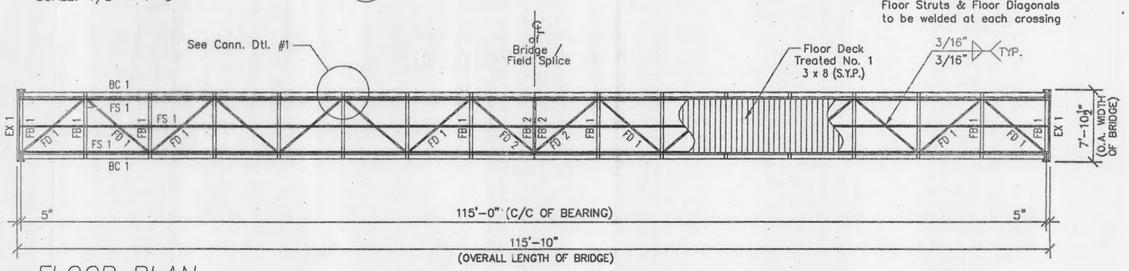


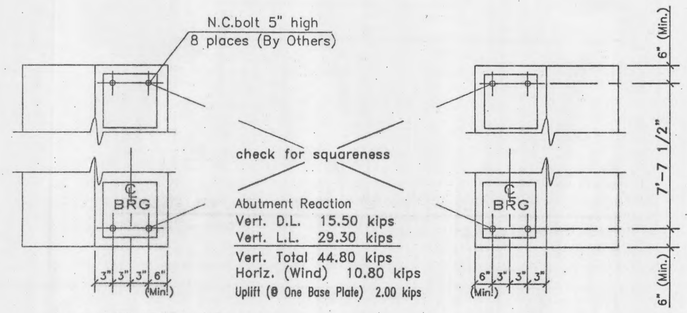
ELEVATION ①

SCALE: 1/8" = 1'-0"



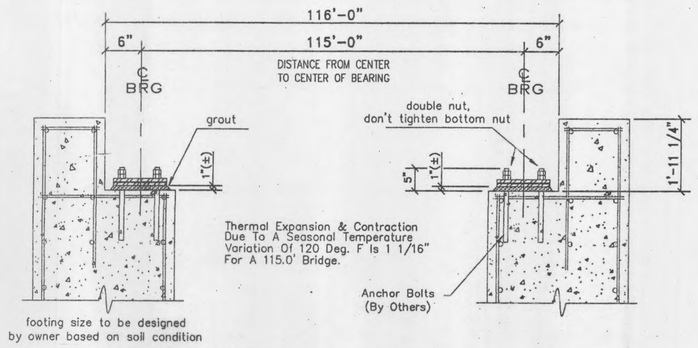
FLOOR PLAN ②

SCALE: 1/8" = 1'-0"



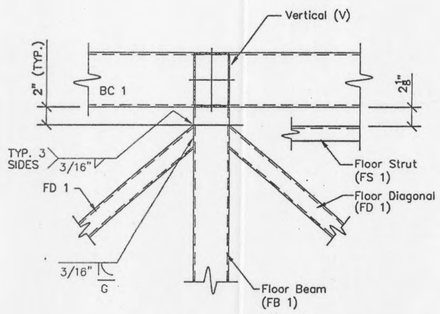
ABUTMENT PLAN ③

NOT TO SCALE



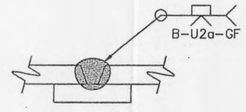
ABUTMENT SECT. ④

NOT TO SCALE



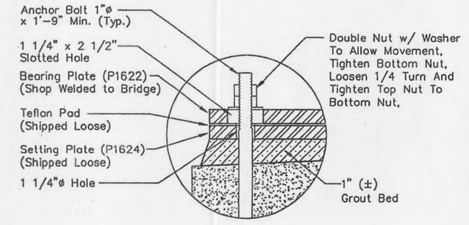
CONN. DTL. #1

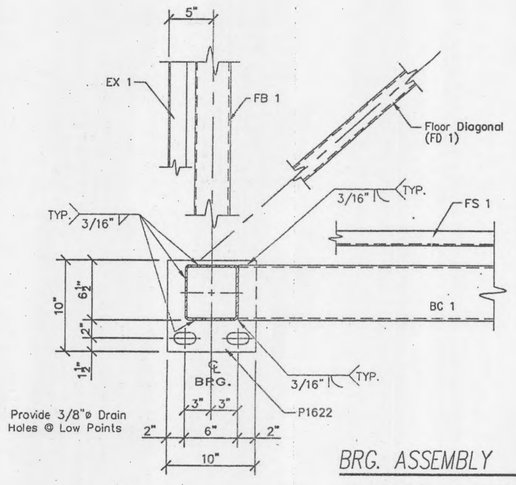
SCALE: 1 1/2" = 1'-0"



TOP & BTM. CHORD SHOP SPLICE DTL.

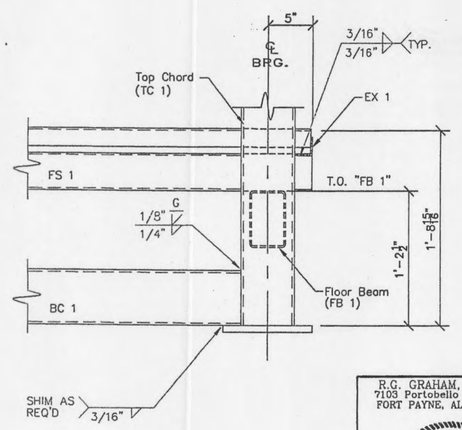
SCALE: NONE





BRG. ASSEMBLY AND BRG. PLATES ⑤

SCALE: 1 1/2" = 1'-0"



BILL OF MATERIALS

JOB: 052235A FOR: O'FALLON, MO 6' x 115' "CONNECTOR"

STEEL ASTM WF-A588 or A242 C&L-A588 or A242 TUBE-A847 or A606 PLATE-A588 or A242

SHOP No.	MARK	DESCRIPTION	FEET	INCHES	WEIGHT PER/FOOT	TOTAL	TOT LENG
4	TC 1	HSS 6 x 6 x 1/4	6	3	19.02	476	2
4	TC 2	HSS 6 x 6 x 1/4	57	9	19.02	4,394	23
4	BC 1	HSS 6 x 6 x 1/4	57	3 1/16	19.02	4,375	23
28	V3-V9	HSS 6 x 4 x 3/16	5	3	11.97	1,760	14
4	CV 10	C 6 x 8.2	5	3	8.20	173	2
4	D 2	HSS 4 x 2 x 3/16	8	6 9/16	6.87	241	3
16	D3-D8	HSS 4 x 2 x 3/16	8	7 5/8	6.87	955	13
8	D7-D8	HSS 4 x 2 x 3/16	8	6	6.87	468	6
4	D 9	HSS 4 x 2 x 3/16	8	6 1/8	6.87	241	3
16	FB 1	HSS 6 x 4 x 3/16	6	3 1/2	11.97	1,209	10
2	FB 2	C 6 x 8.2	6	3 1/2	8.20	107	1
14	FD 1	HSS 2 x 2 x 3/16	9	0 15/16	4.32	553	12
2	FD 2	HSS 2 x 2 x 3/16	9	2 5/16	4.32	82	1
6	FS 1	C 4 x 5.4	57	11	5.40	1,880	34
2	EX 1	L 2 x 2 x 3/16	5	11 1/4	2.44	30	1
4	TP 1	C 5 x 6.7	57	11	6.70	1,555	23
4	R 1	L 1 1/2 x 1 1/2 x 3/16	57	11	1.80	418	23
20	R2-R6	L 1 1/2 x 1 1/2 x 3/16	57	9 15/16	1.80	2,083	1,15
4	R 7	L 1 1/2 x 1 1/2 x 3/16	57	11	1.80	418	23
4	ER 1	L 1 1/2 x 1 1/2 x 3/16	2	10 7/16	1.80	22	1
8	P0263	PL 1/2 x 5	1	8	8.51	120	1
8	P0264	PL 1/2 x 5	2	0	8.51	137	1
4	P1622	PL 3/4 x 10	0	10	25.50	102	
4	P1624	PL 1/2 x 10	0	10	17.00	68	
4		FRICTIONLESS PADS 1/8 x 9	0	10	N/A	2	
96		HEAVY HEX BOLT - ASTM A325, TYPE 3 - 3/4"ø	0	2 1/2	0.454 EA.	44	
22		HEAVY HEX BOLT - ASTM A325, TYPE 3 - 3/4"ø	0	1 1/2	0.329 EA.	8	
118		HEAVY HEX NUT - ASTM A563 C3 - 3/4"ø	0	0	0.193 EA.	23	
118		WASHER - ASTM F436, TYPE 3 - 3/4"ø	0	0	0.045 EA.	6	
192		3 x 8 (NOM.) No. 1, TREATED (S.Y.P.)	5	11 1/4	6.04	6,886	1,14
4	DT 1	L 2 x 2 x 3/16	57	11	2.44	566	23
108		PLATED PANHEAD TORQUE SCREWS - 1/4"ø	0	4	0.073 EA.	8	N/
384		PLATED COUNTERSUNK TORQUE SCREWS - 1/4"ø	0	3 1/2	0.061 EA.	24	N/
		TOTAL LIFTING WEIGHT:				29,434	

SHIPPING LIST / BRIDGE 052235A

1	BRIDGE SECT. "A" - 7'-10 1/2" WIDE		6'-8"H	57'-11"L	14,513	6'-5 7/16" H.
1	BRIDGE SECT. "B" - 7'-10 1/2" WIDE W/ CHORD SPLICE PLATES, BOLTS, NUTS & WASHERS		6'-8"H	58'-11"L	14,836	6'-5 7/16" H.
4	P1624 PL 1/2 x 10	0	10	17.00	68	
4	FRICTIONLESS PADS 1/8 x 9	0	10	N/A	2	
22	HEAVY HEX BOLT - ASTM A325, TYPE 3 - 3/4"ø	0	1 1/2	0.329 EA.	8	
22	HEAVY HEX NUT - ASTM A563 C3 - 3/4"ø	0	0	0.193 EA.	4	
22	WASHER - ASTM F436, TYPE 3 - 3/4"ø	0	0	0.045 EA.	1	

GENERAL NOTES

1. All design stresses are in accordance with the specification of THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2. Welding to conform with the AMERICAN WELDING SOCIETY D1.1 latest revision. Welding to be performed by experienced welders qualified in accordance with A.W.S. procedures. Welding electrodes to be A.W.S. E81T-X series. Weld process to be FCAW or GMAW.
3. All structural steel to be 'WEATHERING STEEL' with a minimum yield strength of 50,000 psi.
4. Structural welds will be a minimum of 3/16' fillet unless shown otherwise. Minimum weld does not apply to seal welds.
5. Anchor bolts to be ASTM A-307 or threaded A-36 steel rods. Where noted 'Expansion', nuts on anchor bolts should be loosely 'hand tightened' so as to allow the bearing plates to slide on the setting plates or teflon pads. Place setting plate & teflon pads on shims, set bridge, and then grout under setting plates. If required Field splice connection bolts shall be ASTM A325 TYPE 3 and shall be tighten by the turn of the nut method to obtain proper torque.
6. Exposed steel surfaces to be sandblasted to STEEL STRUCTURES PAINTING COUNCIL #7 'brush off sandblast finish'. After cleaning, care shall be taken to keep surfaces free of oil, grease, concrete and any foreign matter to allow the weathering steel to rust evenly.
7. All wood to be #1 southern yellow pine with a CCA or ACQ preservative treatment to 0.40 pounds retention of preservative per cubic feet.
8. Hand rails and all other accessible surfaces to be ground smooth with no sharp edges or corners.
9. Length of anchor bolts and foundation details are for general arrangement purposes only. Actual foundation and substructure design, railing, camber, and slope requirements, electrical grounding, and clearances (flood plain, roadway, and waterway) are the responsibility of others.

THIS BRIDGE IS DESIGNED BASED ON THE FOLLOWING CRITER A.
(1) Dead load of 45 psf plus an evenly distributed live load of 85 psf.
(2) Dead load + concentrated load of 1,000 pounds/foot of width + impact.
(3) Wind load of 30 psf calculated on the entire vertical surface as though fully enclosed.

Rev	DESCRIPTION	BY/DATE	CHK'D BY
A	Released For Approval		

APPROVAL ONLY

R.G. GRAHAM, III P.E.
7103 Portobello Road, NW
FORT PAYNE, AL 35967

STATE OF MISSOURI ROBERT G. GRAHAM, III NUMBER 28005 REGISTERED PROFESSIONAL ENGINEER
7/1/05

STEADFAST BRIDGES®

A DIVISION OF BILTOLAST PRODUCTS INC.
4021 GAULT AVENUE
FORT PAYNE, AL 35967-8139
1-800-749-7515

ACTIVE MEMBER

PLACARD ATTACHES ON RIGHT SIDE MIDST AT EACH END OF BRIDGE.
STEADFAST BRIDGES
PEDESTRIAN TRAFFIC LIGHT VEHICLE MAXIMUM LOAD 3 TONS
BILTOLAST PRODUCTS INC FORT PAYNE, ALABAMA
DATE OF MANUFACTURE
SERIAL #

JOB: HIGHLAND GREEN POOLHOUSE BRIDGE
FOR: O'FALLON, MISSOURI
ADDRESS: HYLAND GREEN, LLC
21 JASON COURT
ST. CHARLES, MO 63304
ARCHITECT: Plans By Owner
CONTRACTOR:
DESCRIPTION: BRIDGE No. 052235A 6' x 115' 'CONNECTOR' BRIDGE

DRAWN BY: TEB 6/30/05
APP'D BY: RGM
CHECKED BY: JET

THIS BRIDGE STRUCTURE SHALL NOT BE FIELD MODIFIED IN ANY WAY WITHOUT PRIOR APPROVAL FROM STEADFAST BRIDGES. THESE DRAWINGS AND DESIGNS ARE THE PROPERTY OF BILTOLAST PRODUCTS INC. AND ARE NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL WITHOUT THEIR WRITTEN CONSENT.

DRAWING #: 052235 SHEET: 1/2 REV: 4