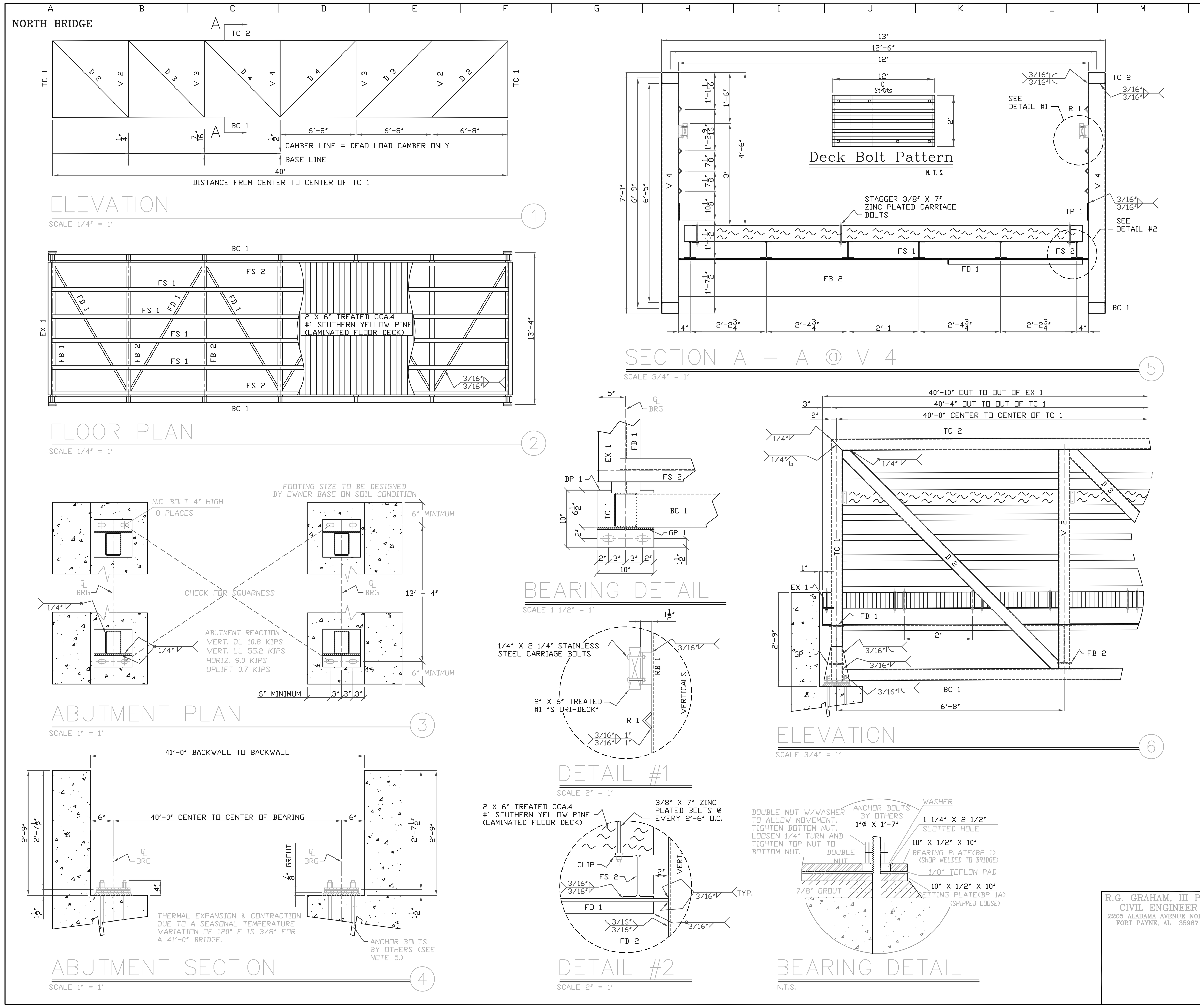
NORTH BRIDGE



BILL OF MATERIALS

JOB: 991062 FOR: POLK COUNTY, FLORIDA

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

No.	SHOP MARK	DESCRIPTION	FEET	INCHES	WEIGHT PER/FOOT	TOTAL	TOTAL LENGTH
4	TC 1	HSS 6" X 4" X 3/16"	7	1	11.97	339	28
2	TC 2	HSS 6" X 4" X 3/16"	40	4	11.97	966	81
2	BC 1	HSS 6" X 4" X 3/16"	39	8	11.97	950	79
12	D2-D4	HSS 4" X 4" X 3/16"	9	0	9.42	1017	108
10	V2-V4	HSS 6" X 4" X 3/16"	6	5	11.97	768	64
2	EX 1	L 4" X 4" X 1/4"	11	8	6.60	154	23
2	FB 1	W 14 X 26	12	0	26.00	624	24
5	FB 2	W 14 X 26	12	0	26.00	1560	60
4	FS 1	W 6 X 12	40	10	12.00	1960	163
2	FS 2	W 6 X 12	40	10	12.00	980	82
6	FD 1	L 2" X 2" X 1/4"	13	5 1/2	3.19	258	81
8	R 1	L 1 1/2" X 3/16"	40	4	1.80	581	323
2	TP 1	FL 6" X 1/4"	40	4	5.10	411	81
4	BP 1	PL 10" X 1/2" A588		10	17.00	51	3
4	GP 1	PL 10" X 3/8" A588	1	0	12.80	46	4
330	WOOD	2X6 #1 SYP LAMINAT	11	8	2.75	10588	3850
6	RAILS	2X6 "STURI-DECK"	14	0	2.75	231	84
18	RB 1	L 1 1/2" X 3/16"		4	1.80	11	6
36	BOLTS	1/4"STAINLESS BOLT		2 1/4	0.25	2	7
100	BOLTS	3/8" ZINC PL BOLT		7	0.25	15	58
100	CLIPS	L 2 1/2" X 3/16"		2	3.07	51	17
		SHIPPED LOOSE					
4	BP 1A	PL 10" X 1/2" A588		10	17.00	51	3
4	PADS	1/8" X 8" TELFON		10	0.20	1	3

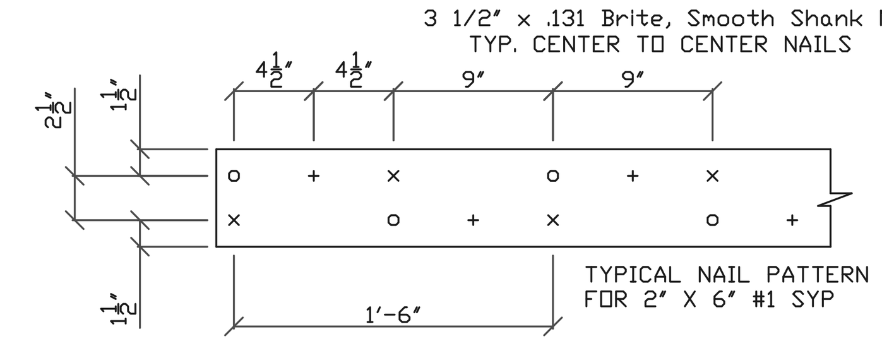
TOTAL LIFTING WEIGHT 21613

NORTH BRIDGE

GENERAL NOTES

1. All design stresses are in accordance with the specification of THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION and AASHTO.
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 ASTM E-80XX series. Weld process to be FCAW.
3. All steel to be 'WEATHERING STEEL" with a minimum yield of 50,000 pounds per square inch.
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. 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, if called for. Place setting plate & teflon pads on shims, set bridge, and then grout under setting plates. (IF REQUIRED: Field connections 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 #6 'commercial 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 preservative treatment to .4 pounds retention of preservative per cubic foot.
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 CRITERIA.
(1) Dead load of 45 psf plus an evenly distributed live load of 85 psf.
(2) Dead load + concentrated load of 40,000 pounds + impact.
(3) Wind load (approx. 120 mph.) calculated on the entire vertical surface as though fully enclosed.



o indicates nails in first lamination
x indicates nails in second lamination
+ indicates nails in third lamination

R.G. GRAHAM, III P.E.
CIVIL ENGINEER
2205 ALABAMA AVENUE NORTH
FORT PAYNE, AL 35967

Rev	DESCRIPTION	BY/DATE	CHK'D BY

STEADFAST BRIDGES®

A DIVISION OF
BILTOLAST PRODUCTS INC.
119 40th St. NE
FORT PAYNE, AL 35967-8139
1-800-749-7515

ACTIVE MEMBER

PLACARD ATTACHED ON RIGHT END POST AT EACH END OF BRIDGE
STEADFAST BRIDGES
MAXIMUM DESIGN LOAD HS- 20 (72,000 LBS. GVW)
BILTOLAST PRODUCTS INC
FORT PAYNE, ALABAMA
DATE OF MANUFACTURE
SERIAL #

JOB: 12'-0" X 40'-0" HS20 "CONNECTOR" BRIDGE
FOR: POLK COUNTY, FLORIDA
ADDRESS: SOUTHWEST FLORDIA WATER MANAGEMENT
2379 BROAD STREET
BROOKSVILLE, FL 34609-6899
ARCHITECT: Plans By Owner
CONTRACTOR: MADRID CONSTRUCTION SERVICES
DESCRIPTION: 12'-0" X 40'-0" NORTH BRIDGE

DRAWN BY: 9/09/99 DDY
APP'D BY:
CHECKED BY:

DRAWING #: 991062-1 OF 4
REV.