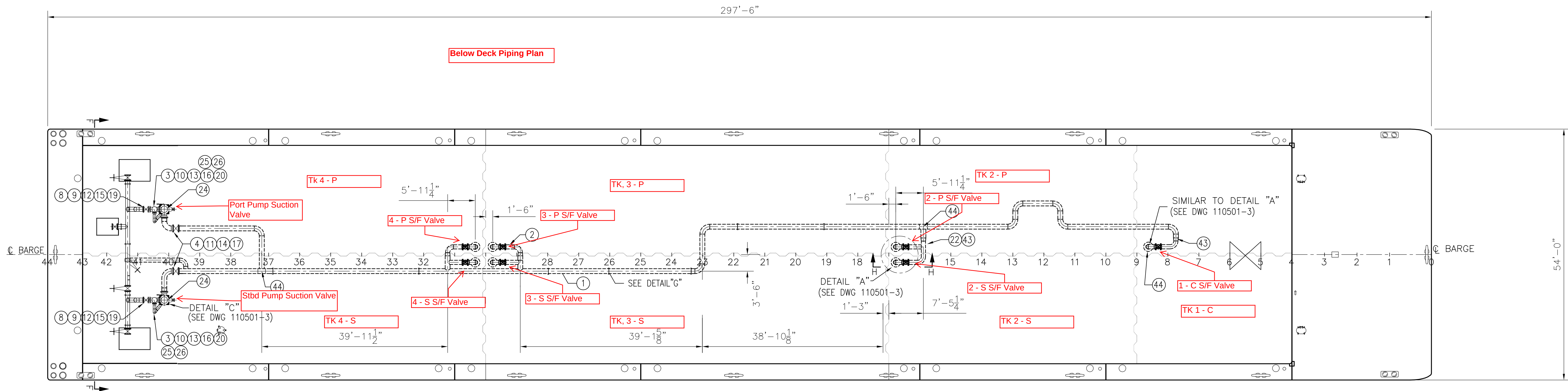
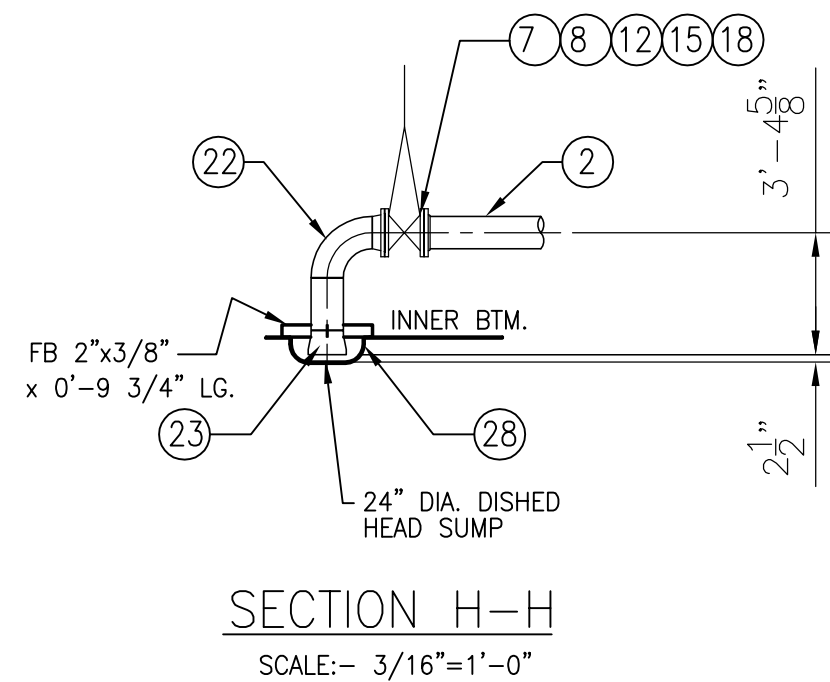
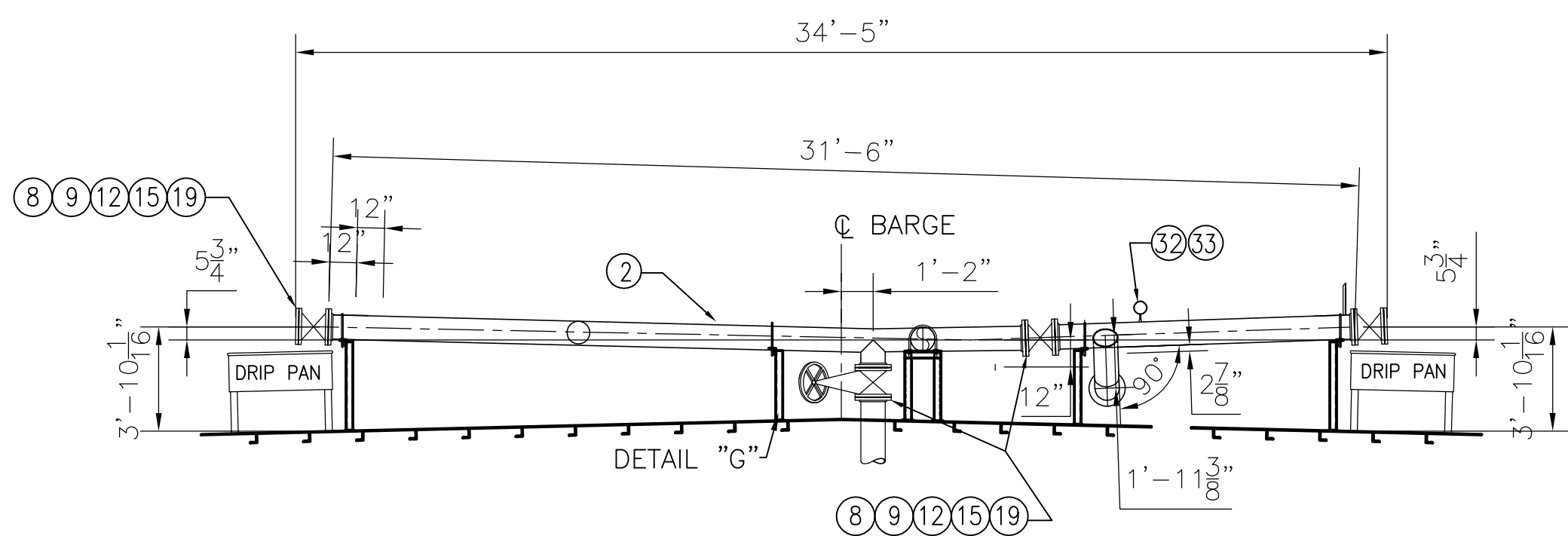




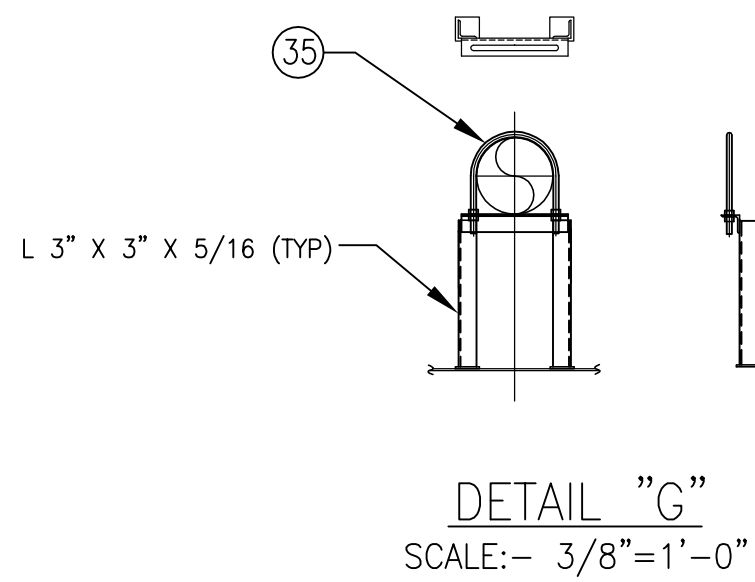
DECK PLAN



MARK	DESCRIPTION	ASTM NO.	ANSI NO.
24	DEEP WELL PUMP, 10" DISCH., BYRON JACKSON 12LS16GH		
23	CONC. REDUCER, 12" x 10", SCH 40, B.W.	A-234	B16.9
22	ELBOW, 90°, 10", SCH. 40, L.R., B.W.	A-234	B16.9
21	ELBOW, 90°, 12", SCH. 40, B.W.	A-234	B16.9
20	RELIEF VALVE, 4" x 6" SET @ 125 PSI, TELEDYNE #26PA10L-120 OR EQ	A-216	B16.5
19	GATE VALVE, 10", OS&Y, 150#, C.S. BODY/CR13 TRIM, SPACE#15011C	A-216	B16.5
18	GATE VALVE, 10", NON-RISING STEM, 125#, IBBM, SPACE #15021C	A-126 CLB	B16.10
17	GATE VALVE, 12", NON-RISING STEM, 125#, IBBM, SPACE #15021C	A-126 CLB	B16.10
16	BOLTS, 3/4"Ø X 3 1/4" LG. FOR 6" FLG.	A-307	B18.2.1
15	BOLTS, 7/8"Ø X 3 3/4" LG. FOR 10" FLG.	A-307	B18.2.1
14	BOLTS, 7/8"Ø x 4" LG. FOR 12" FLG.	A-307	B18.2.1
13	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 6" FLG., KLINGERSIL OR EQ.		
12	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 10" FLG., KLINGERSIL OR EQ.		
11	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 12" FLG., KLINGERSIL OR EQ.		
10	6" FLANGE, 150#, WELD NECK, R.F., F.S.	A-105	B16.5
9	10" BLIND FLANGE, 150#, R.F., F.S.	A-105	B16.5
8	10" FLANGE, 150#, S.O., R.F., F.S.	A-105	B16.5
7	10" FLANGE, 150#, WELD NECK, R.F., F.S.	A-105	B16.5
6	12" BLIND FLANGE, 150#, R.F., F.S.	A-105	B16.5
5	12" FLANGE, 150#, S.O., R.F., F.S.	A-105	B16.5
4	12" FLANGE, 150#, WELD NECK, R.F., F.S.	A-105	B16.5
3	6" PIPE, SCH. 40, SEAMLESS, BLK. STEEL	A-53	B36.10
2	10" PIPE, SCH. 40, SEAMLESS, BLK. STEEL	A-53	B36.10
1	12" PIPE, SCH. 40, SEAMLESS, BLK. STEEL	A-53	B36.10

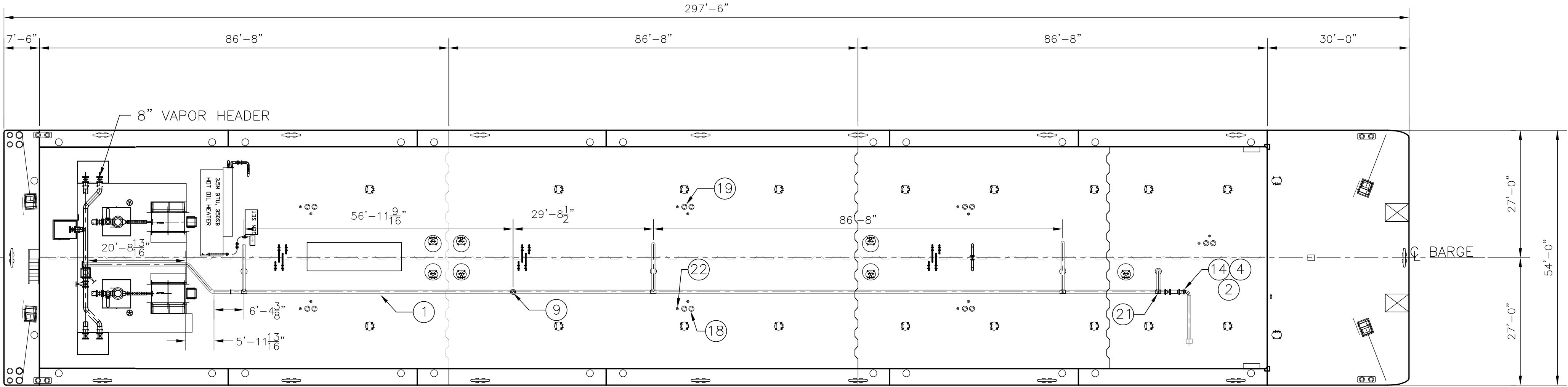
MARK	DESCRIPTION	ASTM NO.	ANSI NO.
45	12" X 10" REDUCING TEE, SCH. 40, BW	A-234	B16.9
44	12" TEE, SCH. 40, BW	A-234	B16.9
43	ECC. REDUCER, 12" X 10", SCH. 40, BW	A-234	B16.9
42	SWING CHECK VALVE, 1 1/4", 200#, SCR'D, 316 SS TRIM, SHARPE FIG. 20276	A-351	B16.10
41	1 1/4" FLANGE, 150#, S.O., R.F., F.S.	A-105	B16.5
40	1 1/4" PIPE, SCH. 40, SEAMLESS, BLK STEEL	A-106-B	B36.10
39	ELBOW, 90°, 1 1/4", 3000#, S.W.	A-105	B16.11
38	GATE VALVE, 1 1/4", 200#, SCR'D, NRS, 316 SS TRIM, SHARPE FIG. 30276	A-351	B16.10
37	GASKET, 1/8" THK., 30"ODx24"D, TEFLONE ENVELOPE W/TETRA BLUE FILLER		
36	24" PIPE, STD., ERW, BLK. STEEL	A-53	B36.10
35	U-BOLT FOR 12" PIPE	A-307	B18.2.1
34	U-BOLT FOR 10" PIPE	A-307	B18.2.1
33	HALF COUPLING, 1/2", 3000#, F.S., THREADED	A-105	B16.11
32	PRESSURE GAUGE, 0-200 PSI, 1/2" CONN. ASHCROFT OR EQ		
31	ELBOW, 90°, 6", SCH. 40, L.R., B.W.	A-234	B16.9
30	4" FLANGE, 150#, S.O., R.F., F.S.	A-105	B16.5
29	ELBOW, 45°, 10", SCH. 40, B.W.	A-234	B16.9
28	24" DIAMETER DISHED HEAD, A-36		
27	CHECK VALVE, WAFER, 10", 150#, C.S. BODY/316SS TRIM, KEYSTONE #810	A-216	B16.5
26	BOLTS, 5/8"Ø X 3" LG. FOR 4" FLG.	A-307	
25	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 4" FLG., KLINGERSIL OR EQ.		

- GENERAL NOTES
- ALL PIPING TO MEET USCG II REGULATIONS.
 - BACKING RINGS SHALL BE USED AT BUTT WELD JOINTS 2" AND LARGER
 - PIPES PASSING THROUGH WATER/OIL TIGHT BOUNDARIES TO BE WELDED BOTH SIDES.
 - CARGO SYSTEM:
PRESSURE, WORKING 100 PSI
DESIGN 150 PSI
TEST 225 PSI
RELIEF VALVE 125 PSI
 - LABELS TO BE INSTALLED ON ALL VALVES WHERE REQUIRED TO IDENTIFY SERVICE.
 - ALL STRUCTURAL STEEL IS ASTM A-36.

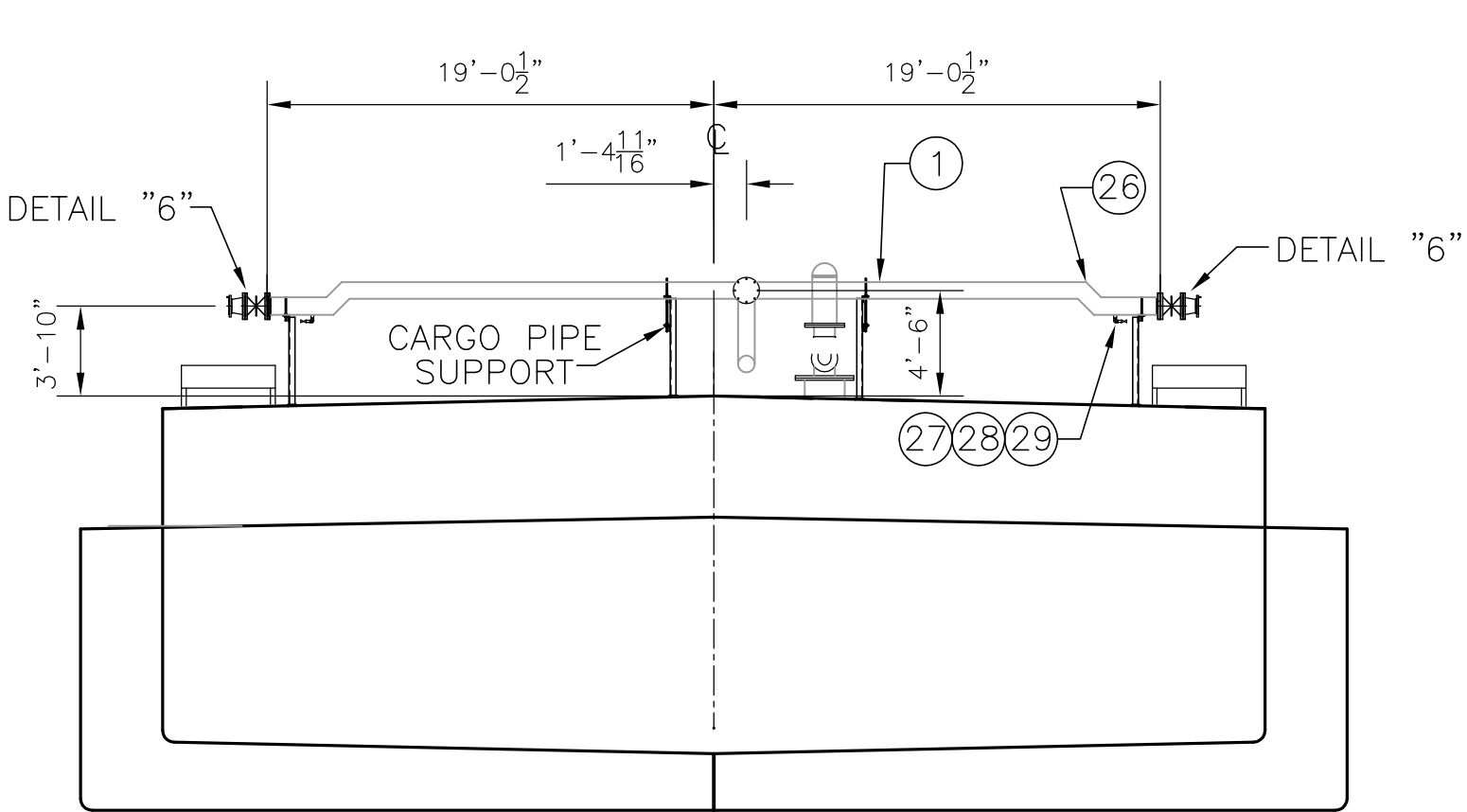


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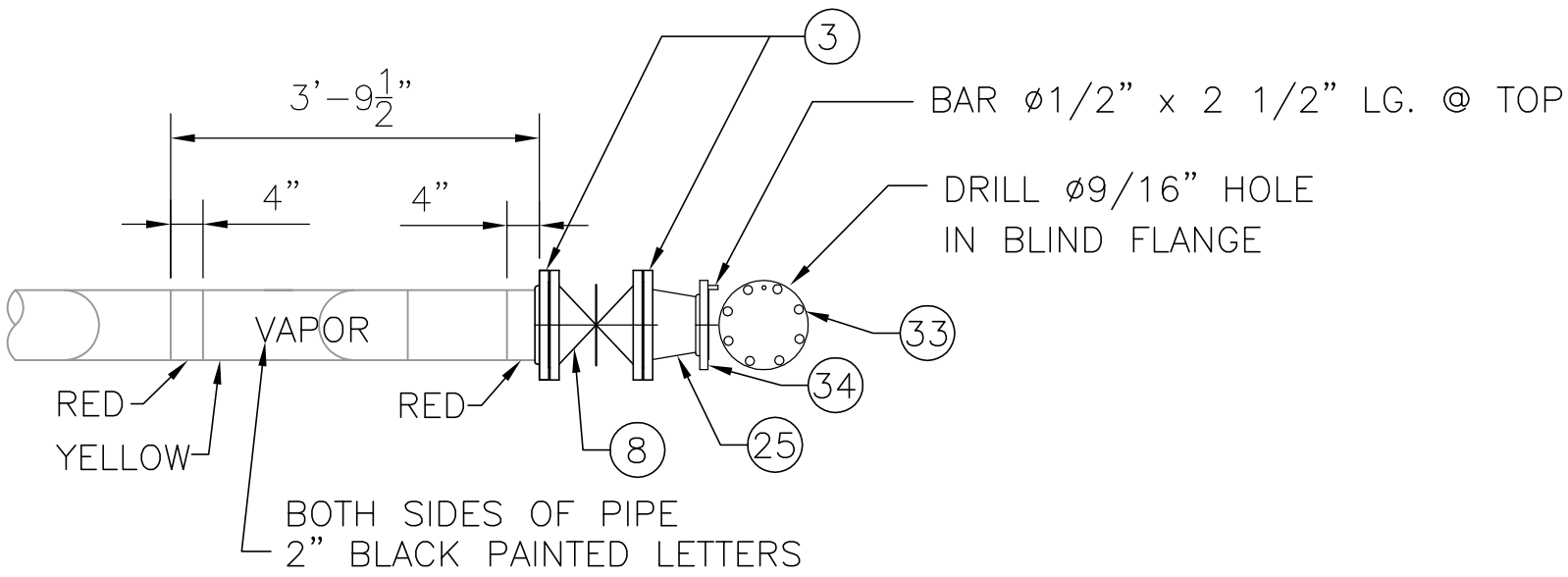
RAYMOND HULL 455 - REVISED TO AS-BUILT			
3	REVISED CARGO TANKS; ADDED ADDITIONAL SUCTION/FILL	CB	11.16.11
2	REVISED ITEMS 17 THROUGH 19 AND 24; CORRECTED ABOVE DECK PIPING FROM CARGO PUMP ON PORT SIDE; ADDED REFERENCE DWG.	CB	7-6-11
1	REVISED CARGO SYSTEM	CB	6-28-11
NO.	REVISION	BY	DATE
THE SHEARER GROUP, INC.			
NAVAL ARCHITECTS 3101 NASA ROAD ONE, SUITE I SEABROOK, TX. 77586			
297'-6" x 54'-0" x 12'-0" DOUBLE SKIN TANK BARGE			
SCALE: 3/32"=1'-0"		APPROVED BY:	
DATE: 5/26/11		DRAWN BY: CLB	
		REV. No. 3	
RAYMOND & ASSOCIATES, LLC			
CARGO PIPING ARRANGEMENT		DRAWING NUMBER 110501-2	



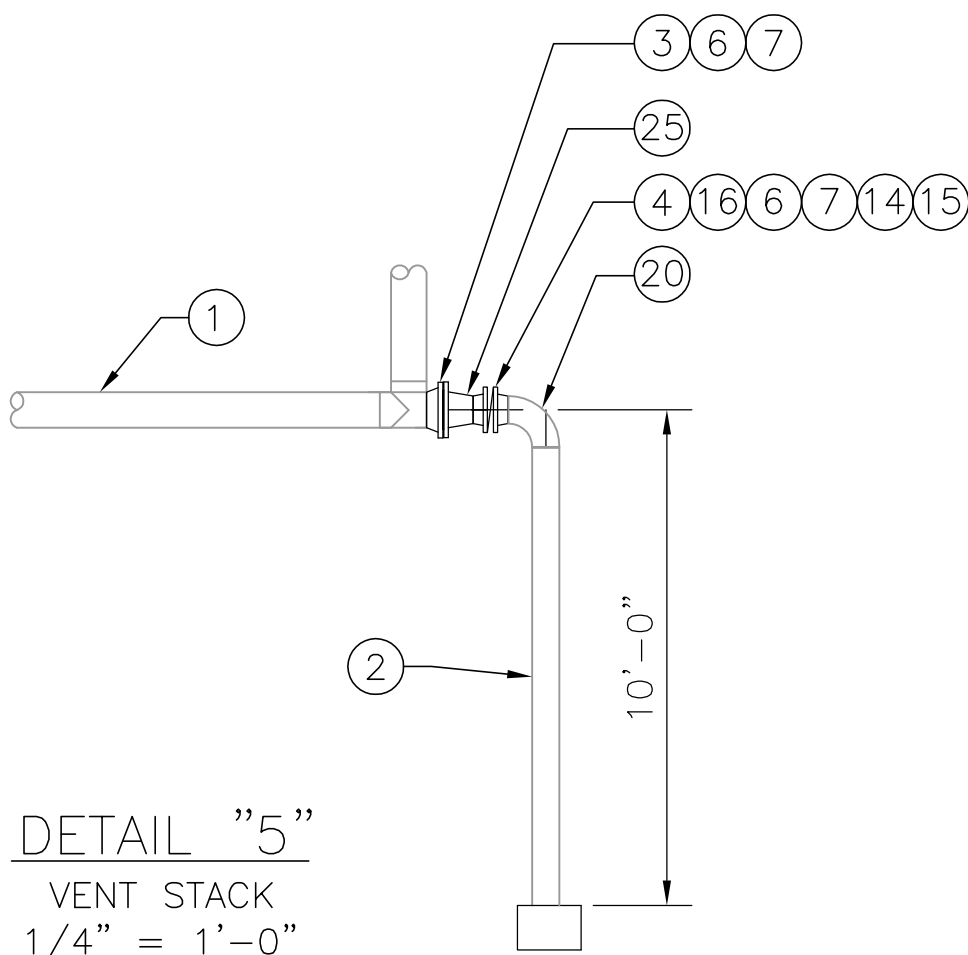
DECK PLAN



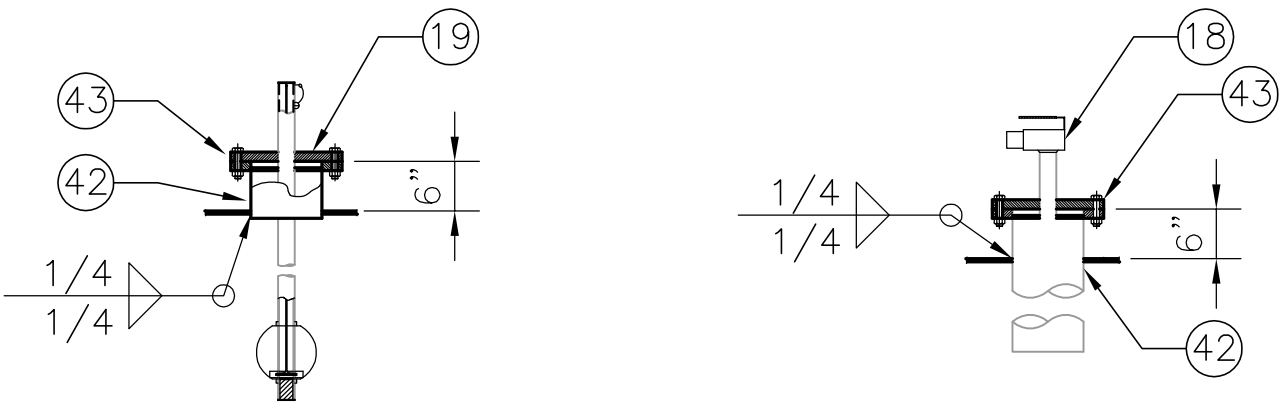
SECTION "A-A"
LOOKING FWD
1/8" = 1'-0"



DETAIL "6"
STANDARD VAPOR MARKING
1/2" = 1'-0"

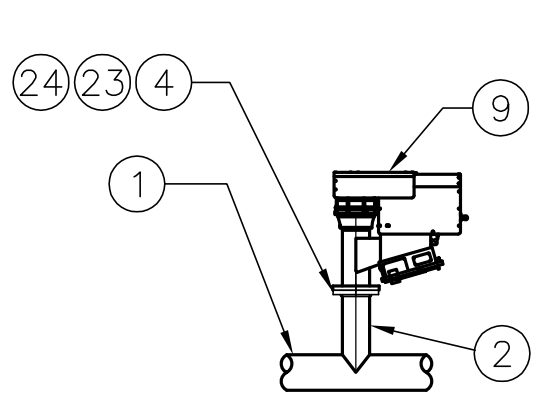


DETAIL "5"
VENT STACK
1/4" = 1'-0"

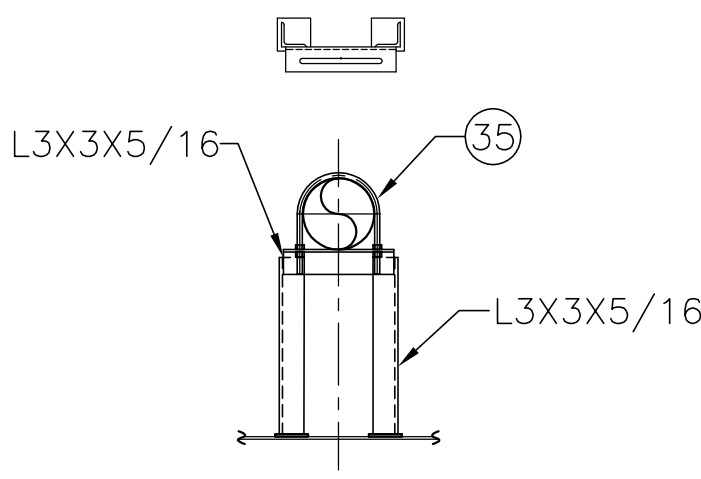


DETAIL "1"
HIGH LEVEL INDICATOR
1/2" = 1'-0"

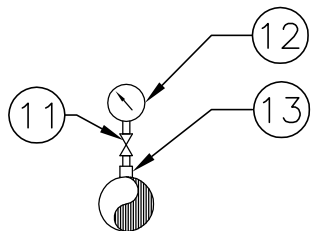
DETAIL "2"
HIGH LEVEL/ALARM
SHUTDOWN
1/2" = 1'-0"



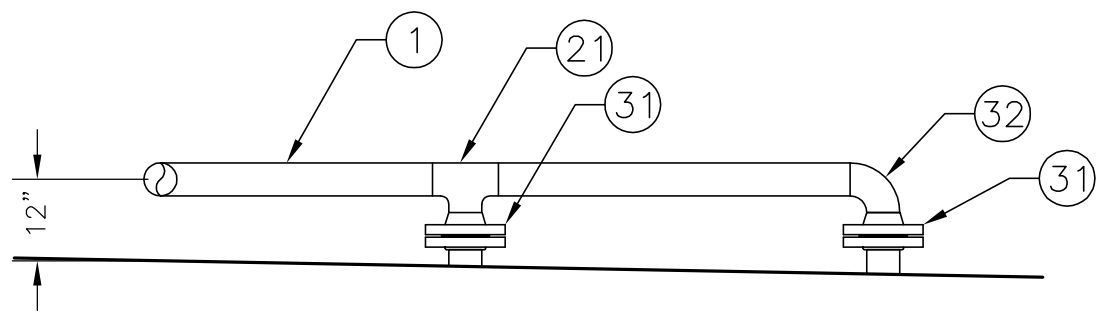
DETAIL "3"
P-V VALVE



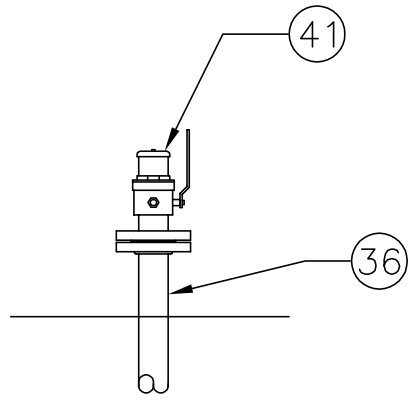
DETAIL "8"
8" PIPE SUPPORT



DETAIL "7"
PUMP DISCHARGE PRESSURE GAUGE
NTS



DETAIL "4"
VAPOR CONNECTION



DETAIL "9"
CLOSED GAUGING/SAMPLING DEVICE

GENERAL NOTES

- ALL PIPING TO MEET USCG II REGULATIONS.
- BACKING RINGS SHALL BE USED AT BUTT WELD JOINTS 2" AND LARGER
- PIPES PASSING THROUGH WATER/OIL TIGHT BOUNDARIES TO BE WELDED BOTH SIDES.
- VAPOR SYSTEM:
PRESSURE, WORKING 1.5 PSI
DESIGN 3.0 PSI
TEST 3.0 PSI
RELIEF VALVE 1.5 PSI
- LABELS TO BE INSTALLED ON ALL VALVES WHERE REQUIRED TO IDENTIFY SERVICE.
- ENDS OF VAPOR MANIFOLD SHOULD BE PAINTED AS SHOWN IN DETAIL "6" IN ACCORDANCE WITH CFR 46 PART 39.20-D-(d).
- THE VAPOR PIPING MUST BE ELECTRICALLY CONTINUOUS AND BONDED TO HULL.

MARK	DESCRIPTION	ASTM NO.	ANSI NO.
1	8" PIPE, SCH. 40, ERW, BLK. STEEL	A-53	B36.10
2	6" PIPE, SCH. 10, S.S., GR. 316L	A-312	B36.10
3	8" FLANGE, 150#, WELD NECK, R.F., FS	A-105	B16.5
4	6" FLANGE, 150#, WELD NECK, R.F., FS	A-105	B16.5
6	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 8" FLG., KLINGERSIL OR EQ.		
7	BOLTS, 3/4"Ø x 3 1/2" LG. FOR 8" FLG.	A-307	B18.2.1
8	GATE VALVE, 8", 150#, C.S. BODY/CR13 TRIM, SPACE#15011C OR EQ	A-216	B16.5
9	PV VALVE, 6", ERL SUPERAC, SET @ 1.50 PSI PRESS & 0.5 PSI VACUUM	A-216	B16.5
10	NOT USED	-	-
11	VALVE, GLOBE, 1/2", SCR'D., FORGED STEEL BODY/CR13 TRIM, VOGT TYPE 600 #10103	A-105	B16.11
12	PRESSURE VACCUM GAUGE, 4 PSI VAC. TO 4 PSI PRESS., ASHCROFT OR EQ		
13	COUPLING, 1/2", 3000#, SCR'D	A-105	B16.11
14	BUTTERFLY VALVE, 6",150#, C.S. BODY/SS TRIM, KEYSTONE FIG 150 OR EQ	A-216	B16.5
15	6" FLANGE, LAP JOINT, 150#, TYPE A	A-105	B16.5
16	6" LAP JOINT STUB END, SCH 40, 8" LONG TYPE A, STEEL	A-53	B36.10
17	VISUAL TANK LEVEL INDICATOR, BERGAN MODEL DWSG-8		
18	HIGH LEVEL ALARM/SHUT DOWN SYSTEM, ERL MODEL DS-39-HT		
19	HIGH LEVEL INDICATING DEVICE, ERL LEVEL ALERT MODEL II		
20	ELBOW, 90°, 6", SCH. 40, L.R., B.W., S.S., GR. 316L	A403	B16.9
21	TEE, 8", SCH. 40, B.W.	A-234	B16.9
22	TEMP SENSOR, BAERGAN STS-100, 316SS		
23	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 6" FLG., KLINGERSIL OR EQ.		
24	BOLTS, 3/4"Ø x 3 1/4" LG. FOR 6" FLG.	A-307	B18.2.1
25	CONCENTRIC REDUCER, 8" X 6", SCH. 40, B.W.	A-234	B16.9
26	ELBOW, 45°, 8", SCH. 40, B.W.	A-234	B16.9
27	VALVE, GATE, 3/4", SCR'D., FORGED STEEL BODY/CR13 TRIM, FAIRBANK FIG#0418	A-105	B16.11
28	ELBOW, 90°, 3/4", 3000#, SCR'D, F.S.	A-105	B16.11
29	HALF COUPLING, 3/4", 3000#, SCR'D.	A-105	B16.11
30	8" PIPE, SCH. 40, ERW, BLK. STEEL	A-53	B36.10
31	8" FLANGE, 150#, SLIP ON, R.F., F.S.	A-105	B16.5
32	ELBOW, 90°, 8", SCH. 40, B.W.	A-234	B16.9
33	6" BLIND FLANGE, 150#, R.F., F.S.	A-105	B16.5
34	6" FLANGE, SLIP-ON, 150#, R.F., F.S.	A-105	B16.5
35	U-BOLT FOR 8" PIPE	A-307	B18.2.1
36	2" PIPE, SCH. 40, ERW, BLK. STL.	A-53	B36.10
37	2" FLANGE, SLIP-ON, 150#, R.F., F.S.	A-105	B16.5
38	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 2" FLG., KLINGERSIL OR EQ.		
39	BOLTS, 5/8"Ø x 2 3/4" LG. FOR 2" FLG.		
40	U-BOLT FOR 2" PIPE	A-307	B18.2.1
41	2" CLOSED SAMPLING/GAUGING DEVICE - HERMETIC		
42	8" PIPE, SCH. 10, S.S., GR. 316L	A-312	B36.10
43	8" FLANGE, 150#, WELD NECK, R.F., FS, GR. 316L	A182	B16.5

4	MOVED ISOLATION VALVE FROM #1 TANK TO #2 TANK VAPOR DROP	CO	4.08.15
3	REVISED VAPOR SYSTEM TO INCLUDE ADDITIONAL CARGO TANK	CB	11.16.11
2	REVISED MARKS 2, 9, 18, 19, 20, 41. ADDED MARKS 42, 43, 44. CORRECTED DETAIL 6 AND SECTION "A-A"	CB	7.06.11
1	REVISED CARGO SYSTEM	CB	6.28.11
NO.	REVISION	BY	DATE

THE SHEARER GROUP, INC.

NAVAL ARCHITECTS
3101 NASA ROAD ONE, SUITE I
SEABROOK, TX. 77586

297'-6" x 54'-0" x 12'-0"
DOUBLE SKIN TANK BARGE

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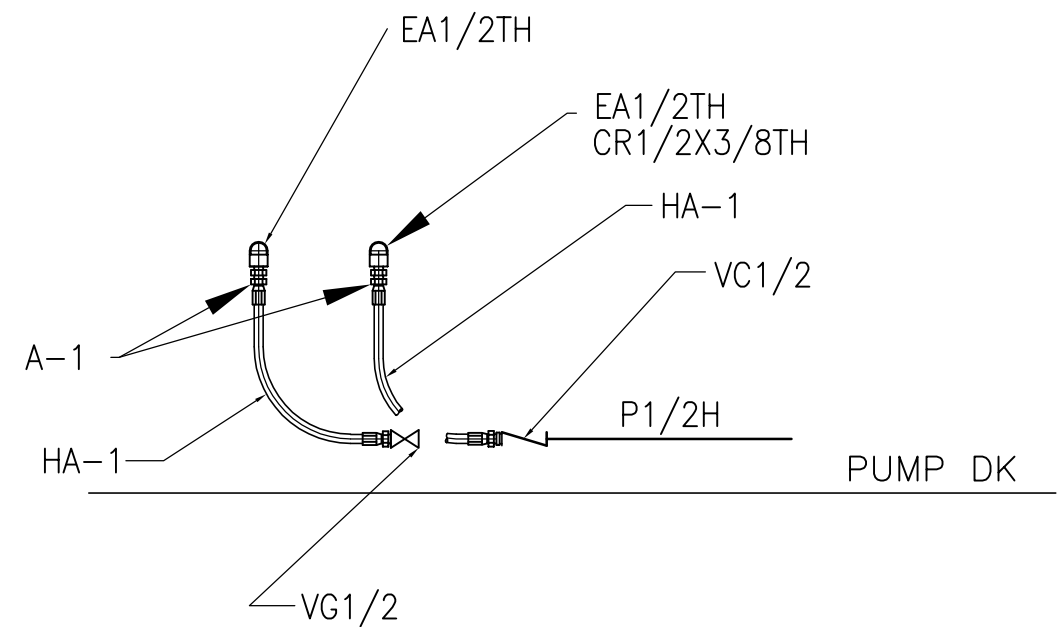
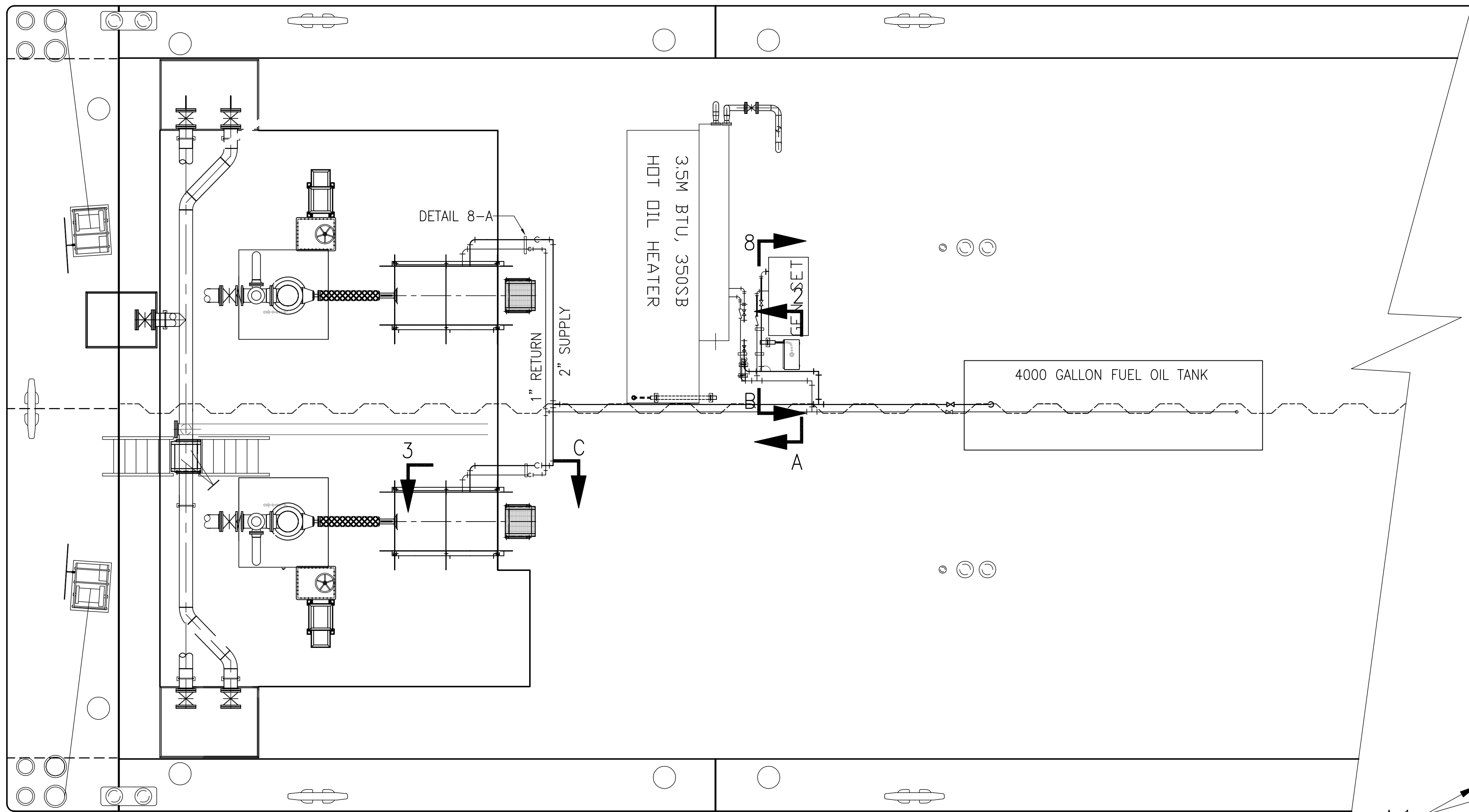
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DATE: 4/4/12	JOB NO.: 0277-001	REV. No. 4

RAYMOND & ASSOCIATES, LLC, HULL 455

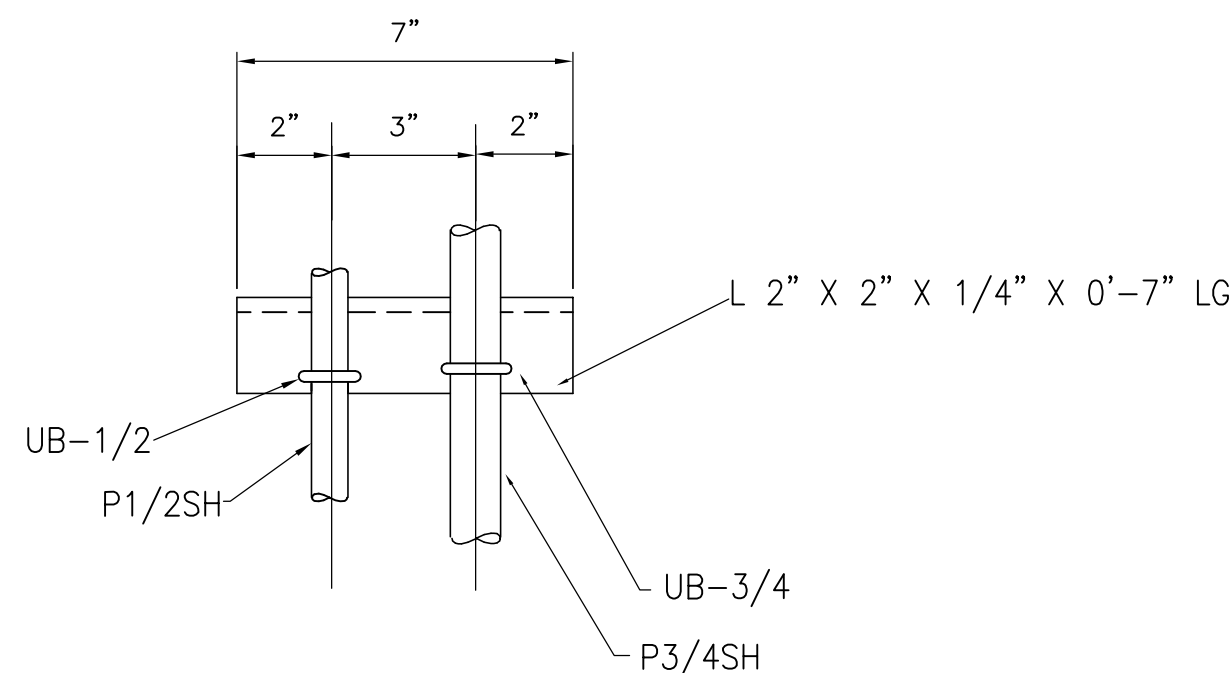
VAPOR PIPING DETAILS

DRAWING NUMBER

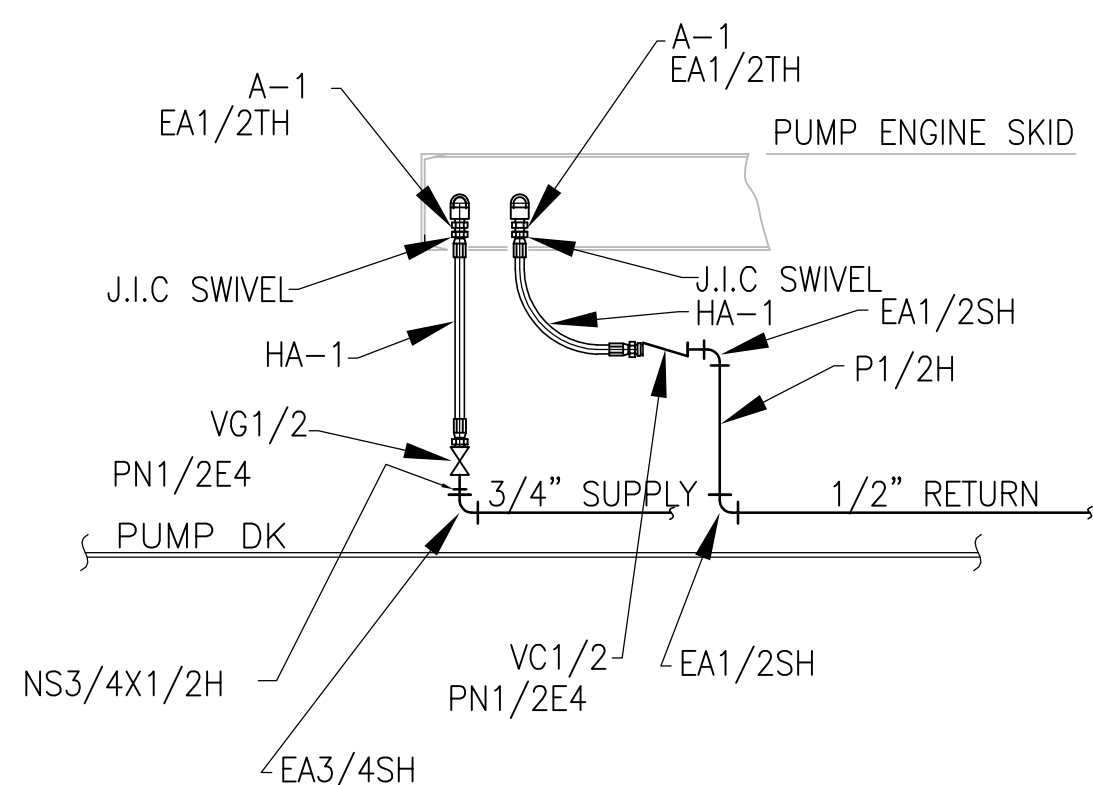
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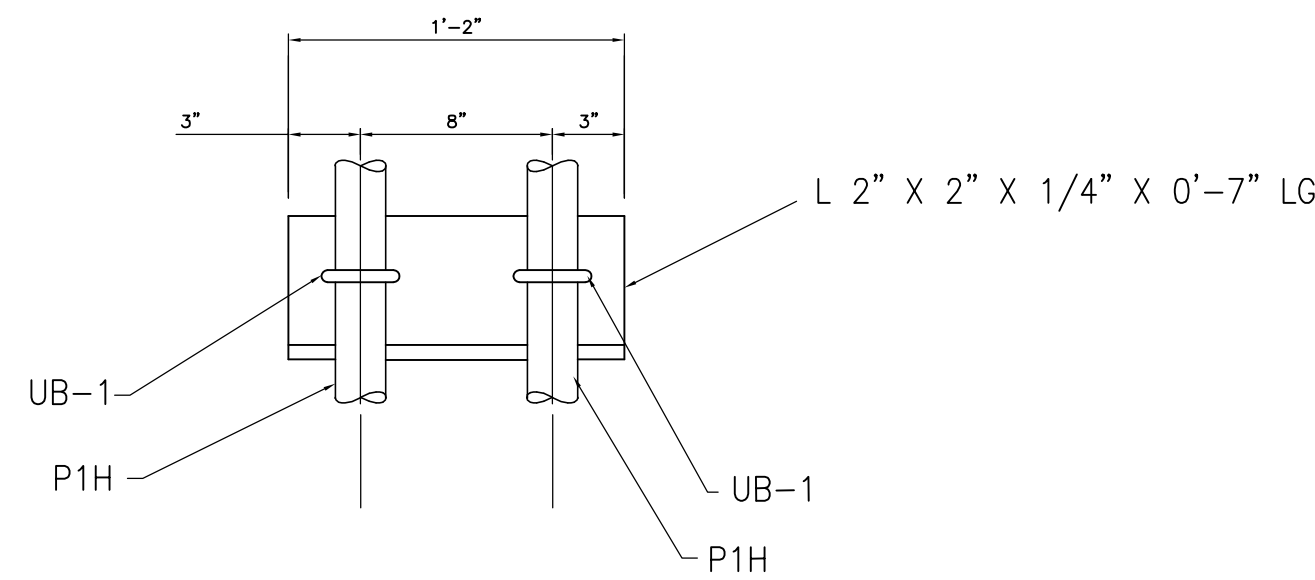
SECTION 8-B
3/4" = 1'-0"



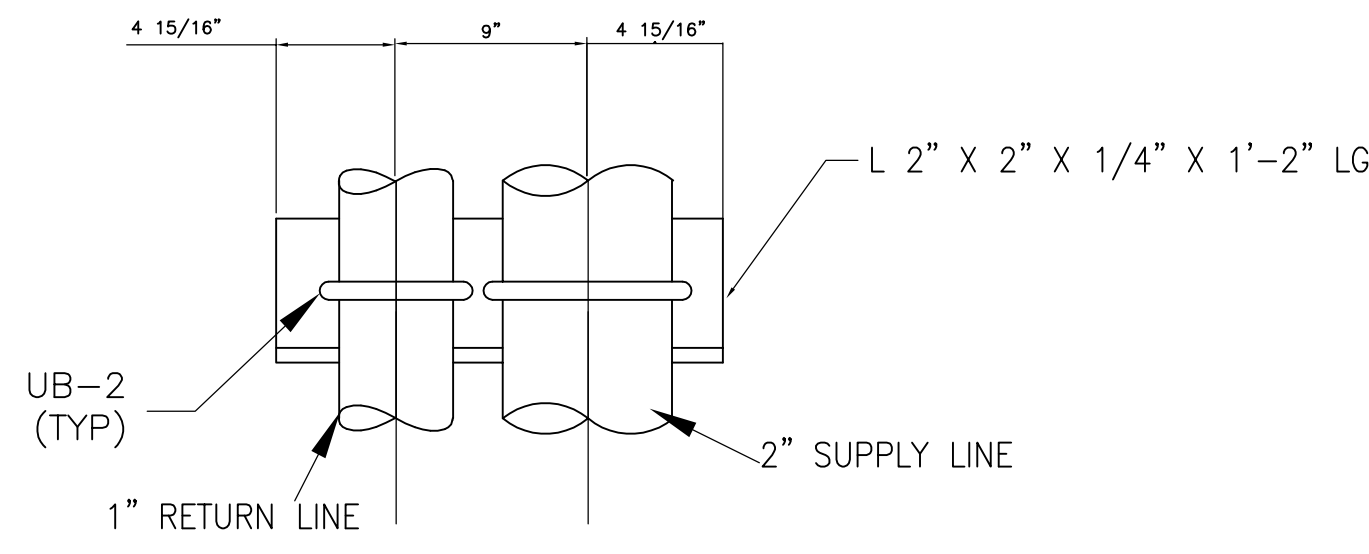
DETAIL 7-B
(4) REQ'D
3" = 1'-0"



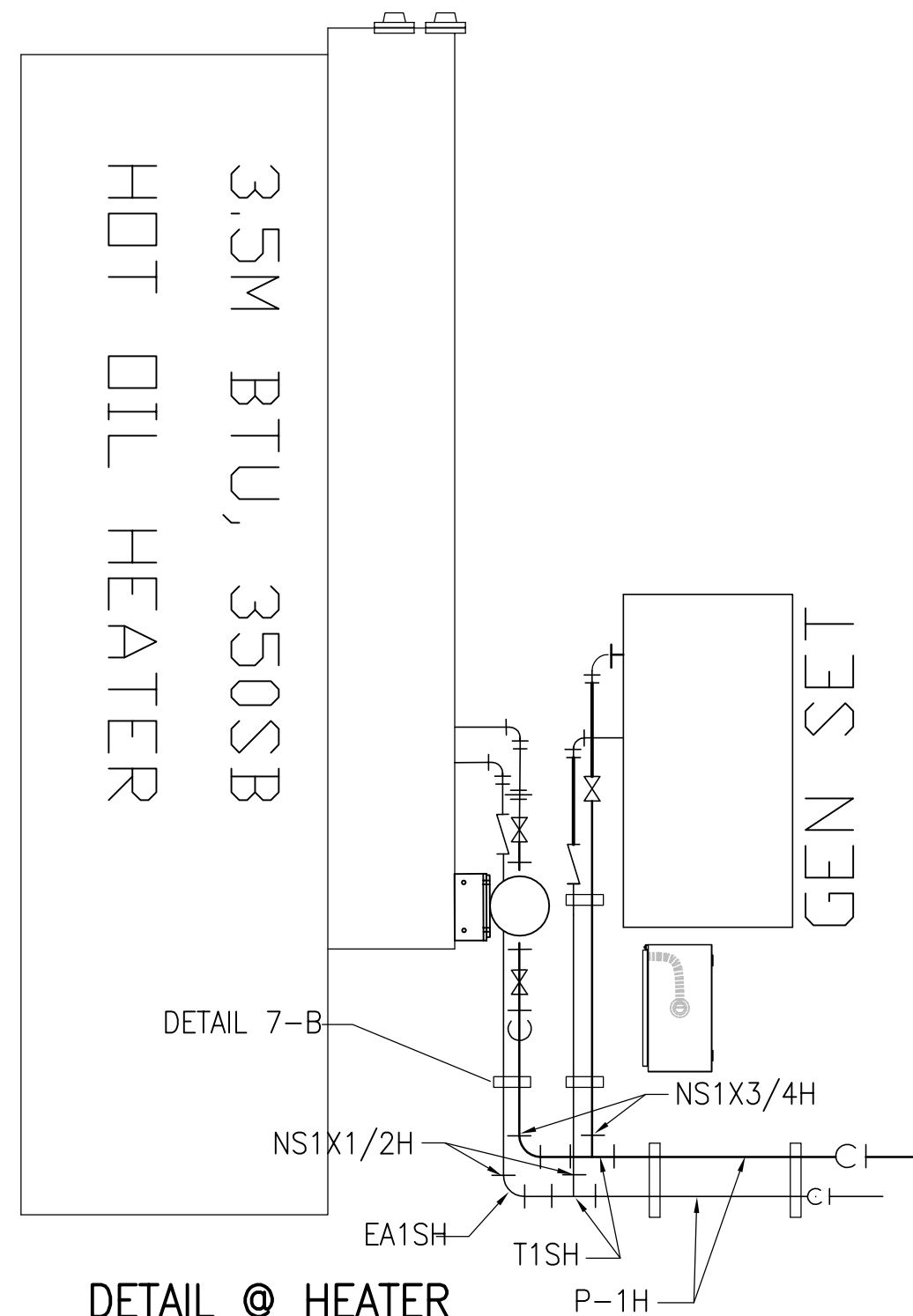
SECTION 3-C
3/4" = 1'-0"



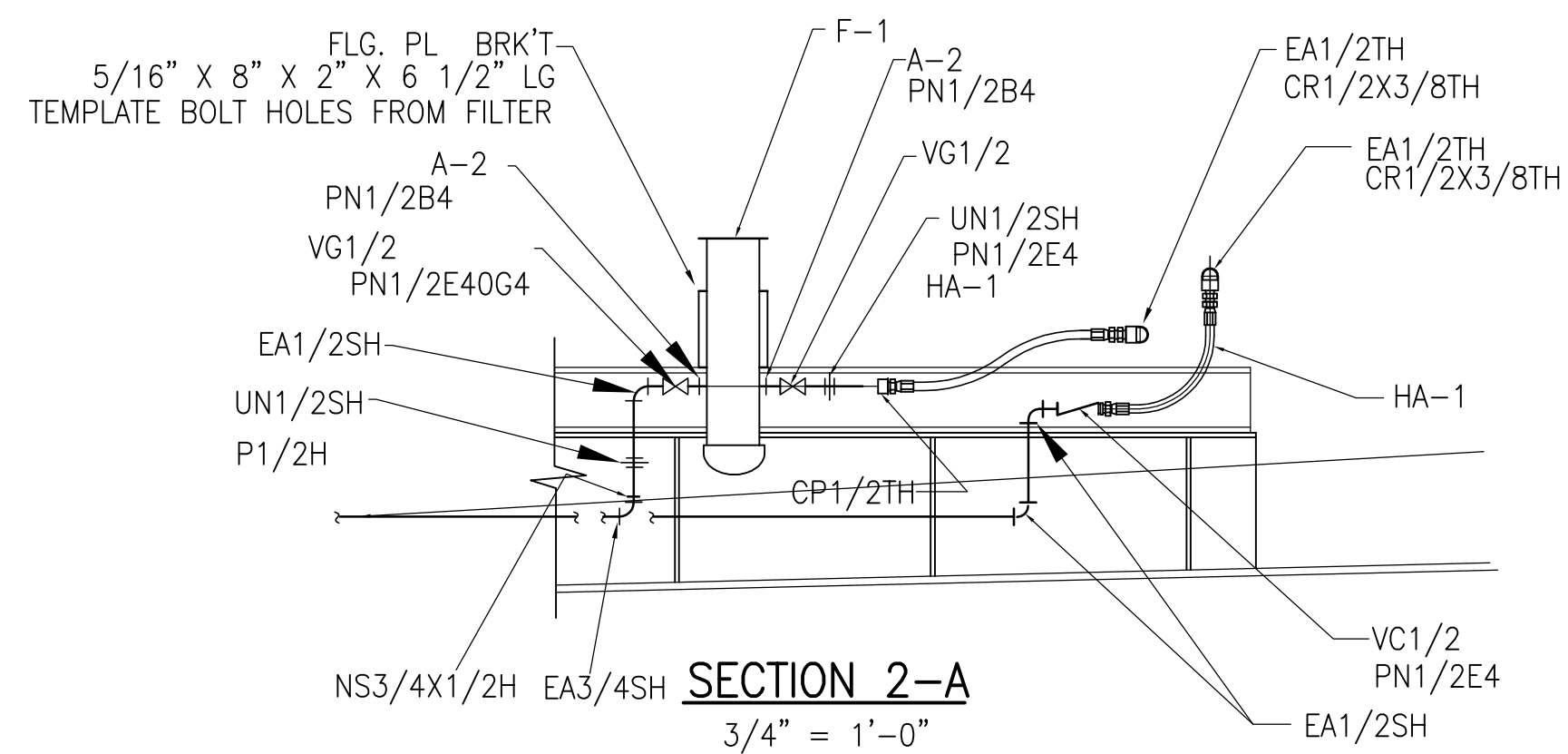
DETAIL 8-A
(2) REQ'D
3" = 1'-0"



DETAIL 6-A
3" = 1'-0"



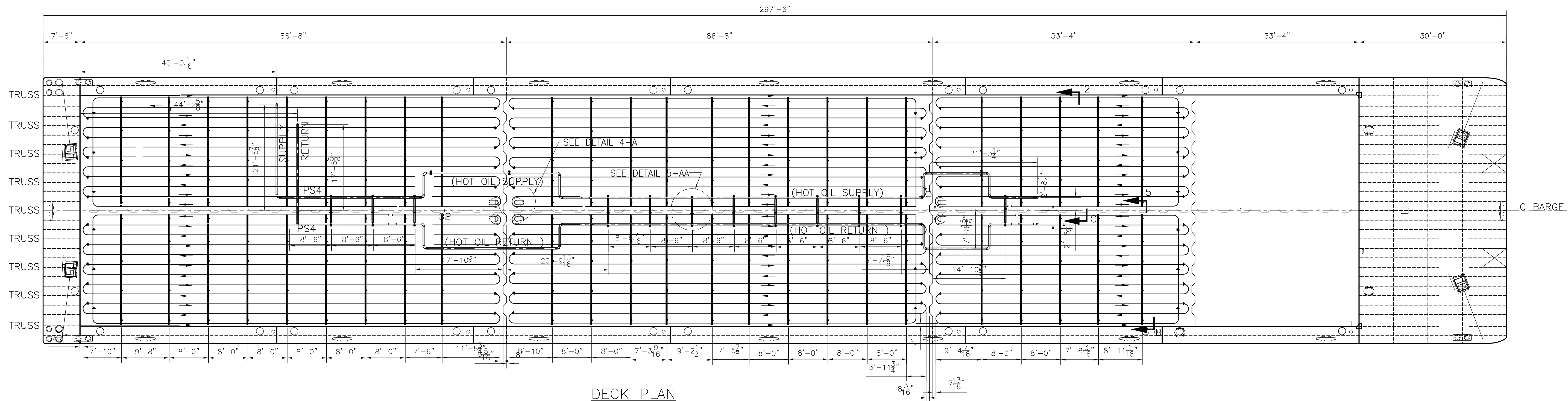
DETAIL @ HEATER
3/8" = 1'-0"



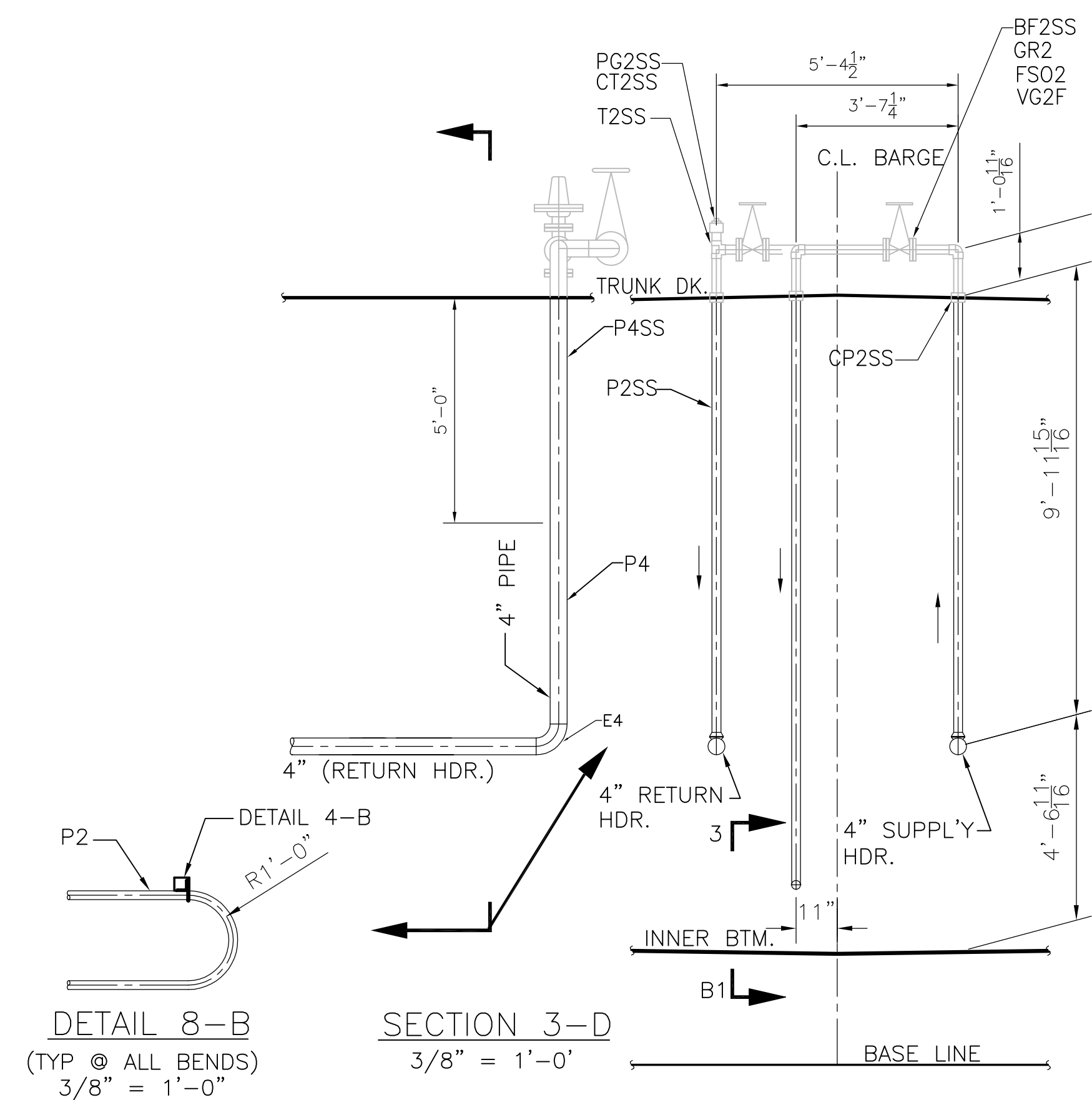
SECTION 2-A
3/4" = 1'-0"

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2	ADDED FUEL CONNECTION TO THE HOT OIL HEATER AND GENERATOR	CB	11.16.11
1	REVISED CARGO SYSTEM	CB	6--28--11
NO.	REVISION	BY	DATE
THE SHEARER GROUP, INC.			
NAVAL ARCHITECTS 3101 NASA ROAD ONE, SUITE I SEABROOK, TX. 77586			
297'-6" x 54'-0" x 12'-0" DOUBLE SKIN TANK BARGE			
SCALE: 3/16"=1'-0"		APPROVED BY:	DRAWN BY: CLB
DATE: 5/26/11			REV. No. 2
RAYMOND & ASSOCIATES, LLC			
FUEL OIL PIPING ARRANGEMENT			DRAWING NUMBER 110501-6

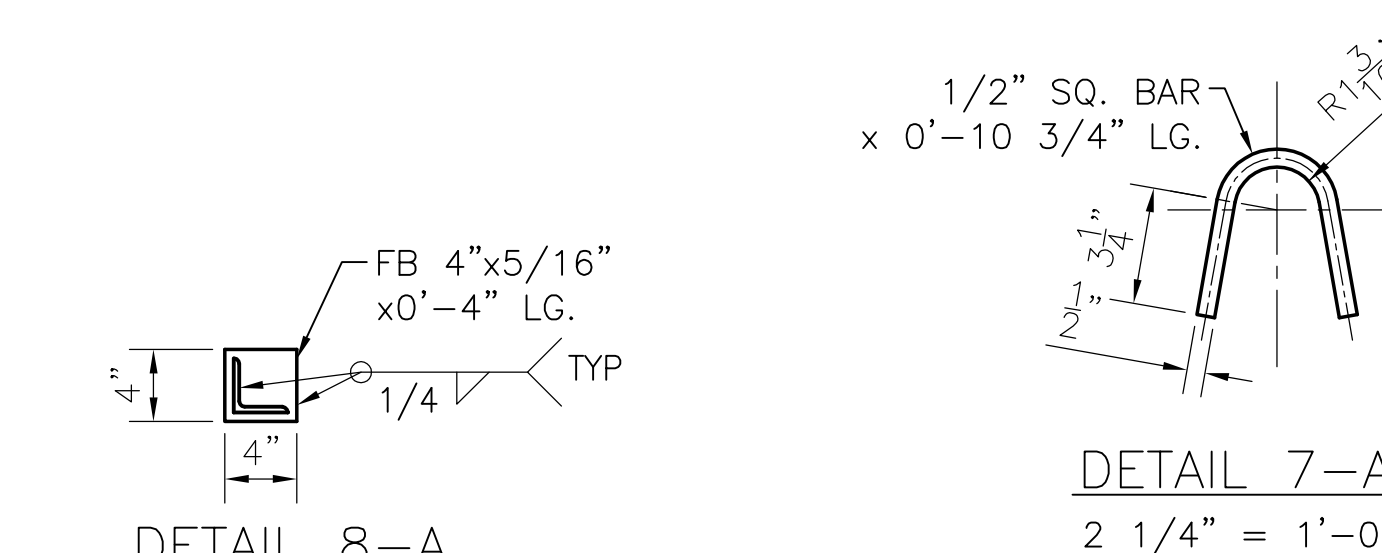


DECK PLAN

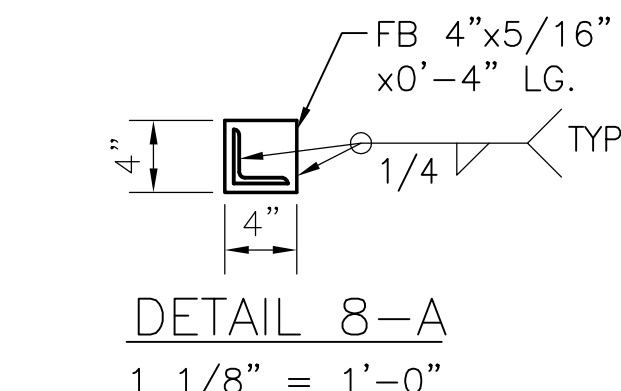


DETAIL 8-B
(TYP @ ALL BENDS)
3/8" = 1'-0"

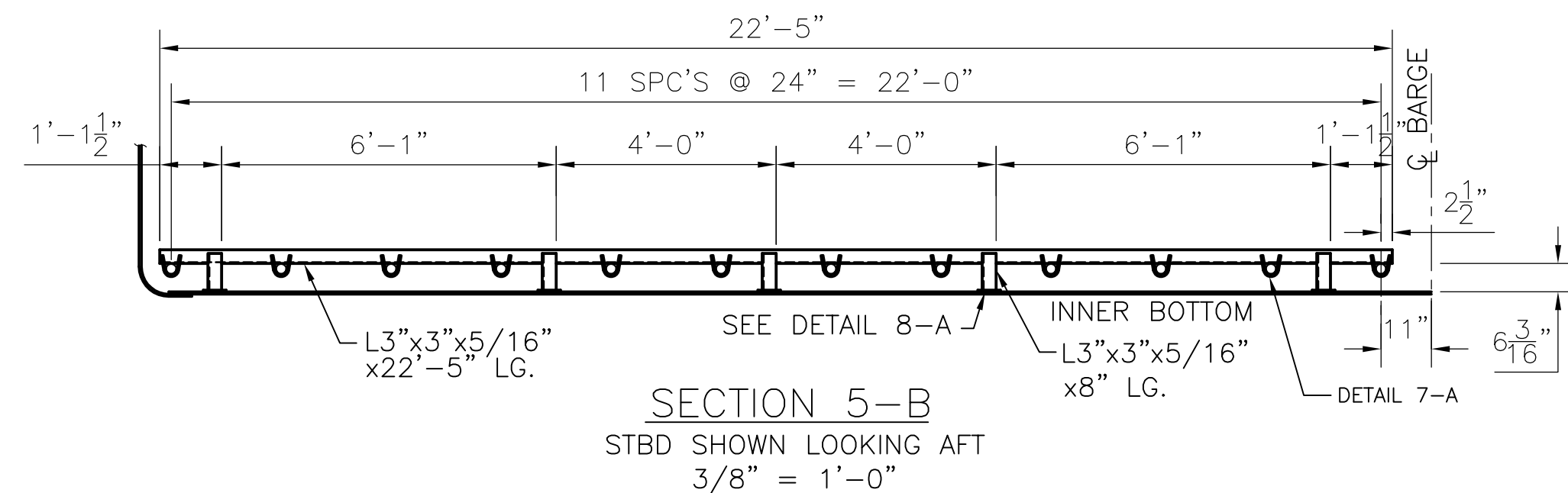
SECTION 3-D
3/8" = 1'-0"



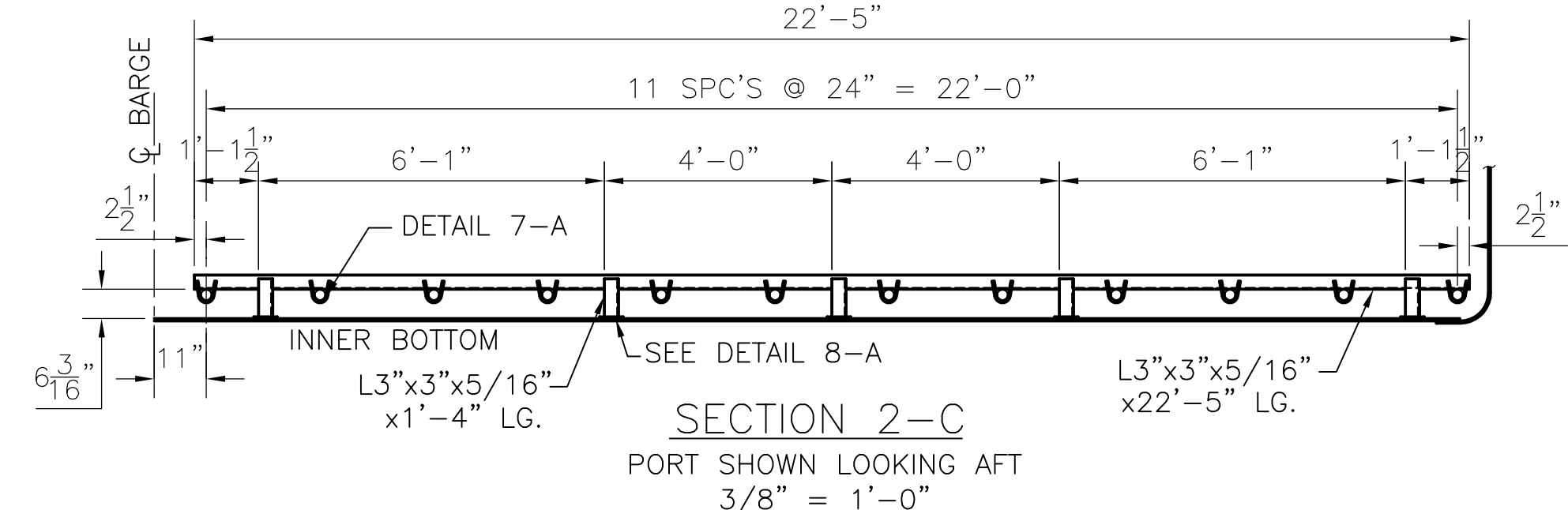
DETAIL 7-A
2 1/4" = 1'-0"



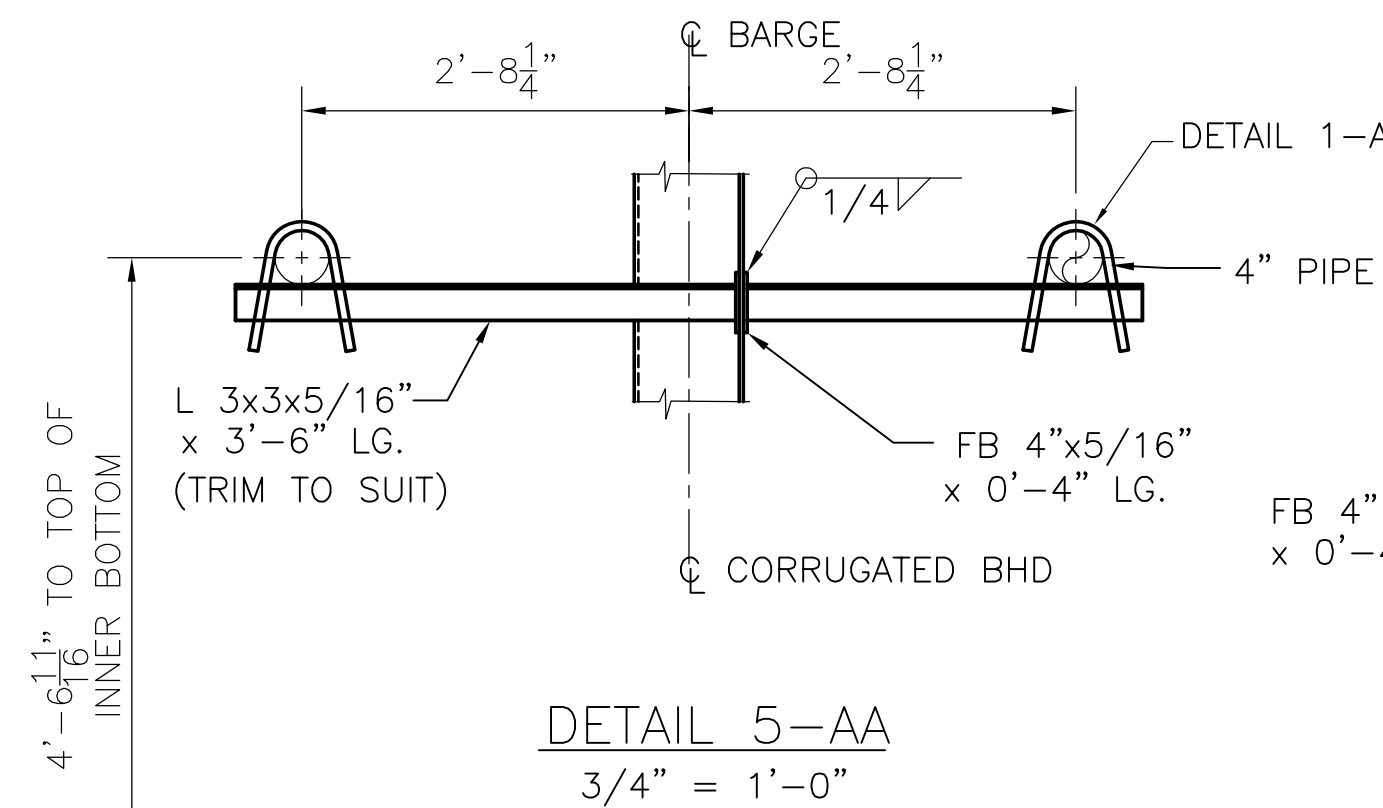
DETAIL 8-A
1 1/8" = 1'-0"



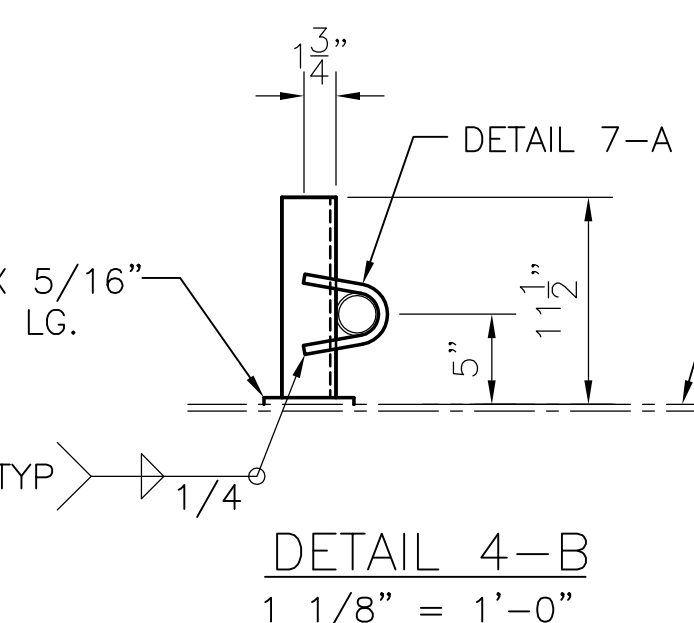
SECTION 5-B
STBD SHOWN LOOKING AFT
3/8" = 1'-0"



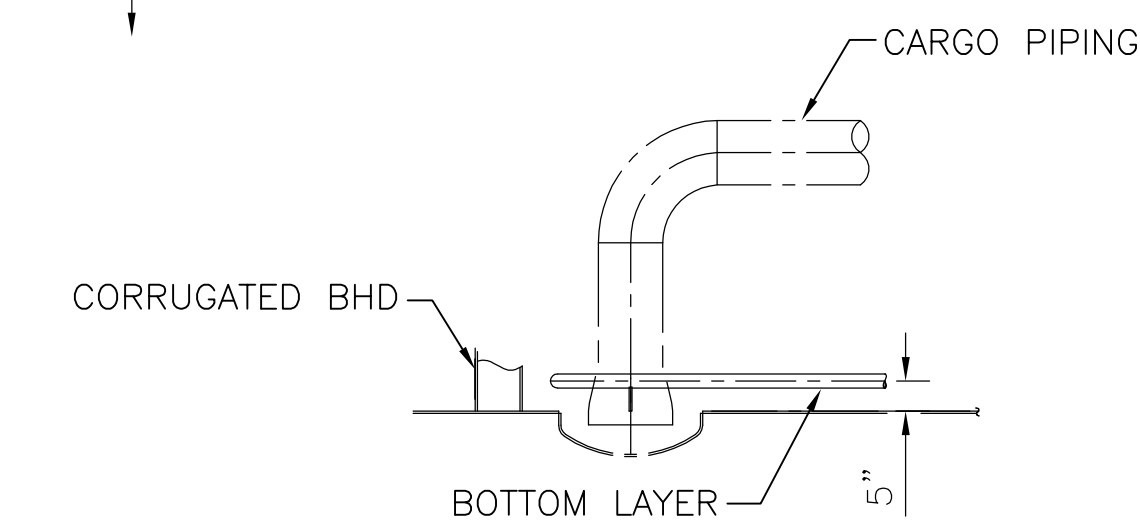
SECTION 2-C
PORT SHOWN LOOKING AFT
3/8" = 1'-0"



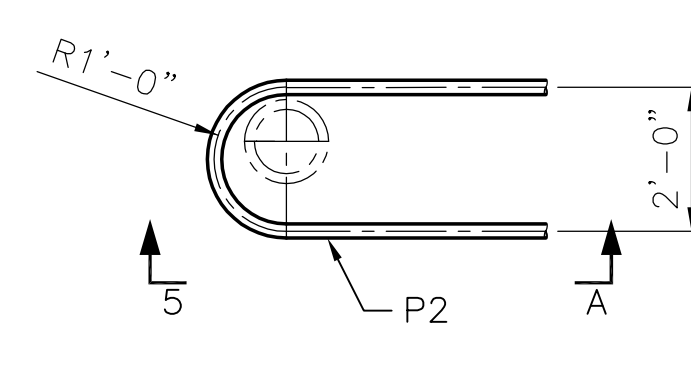
DETAIL 5-AA
3/4" = 1'-0"



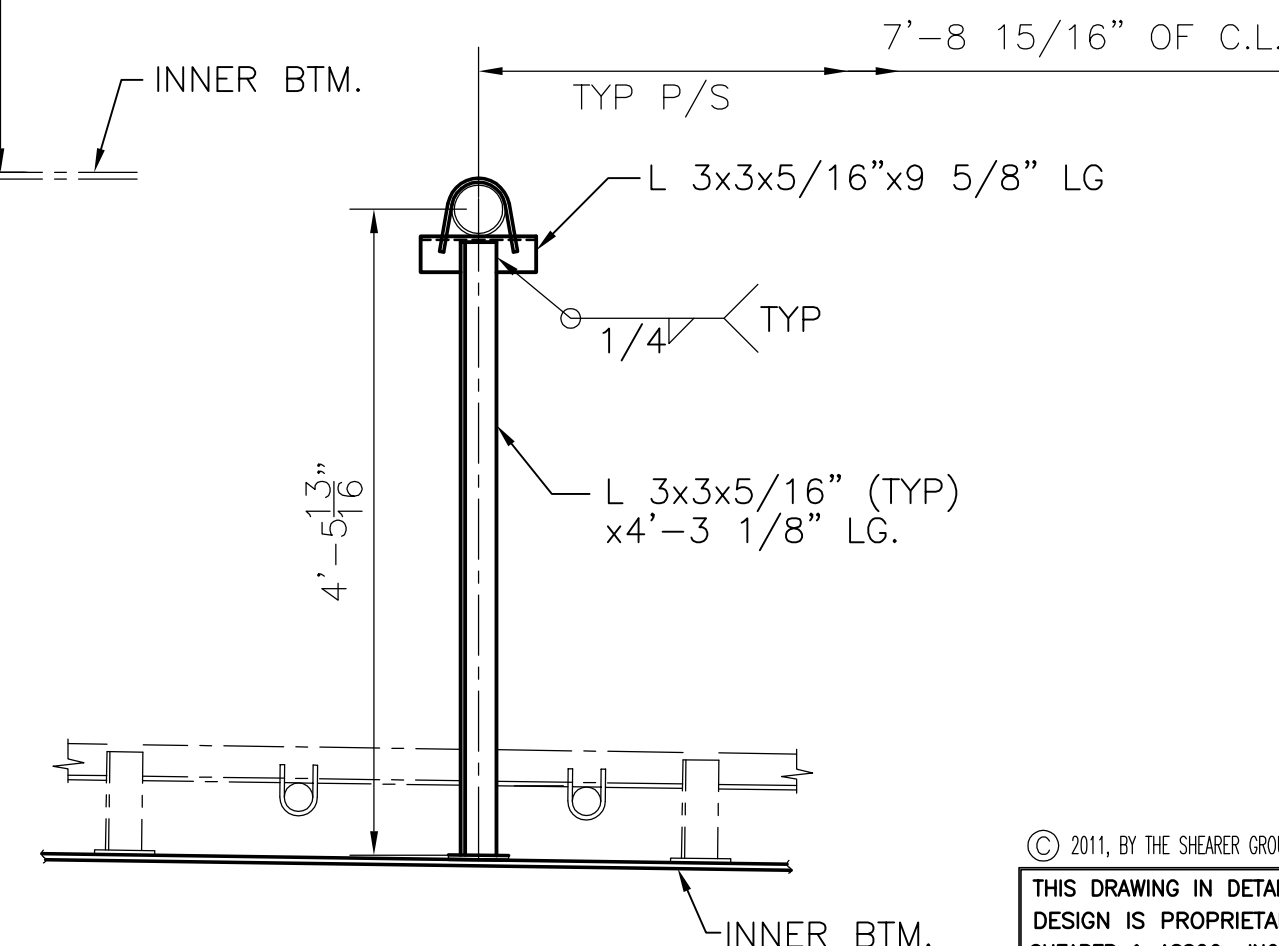
DETAIL 4-B
1 1/8" = 1'-0"



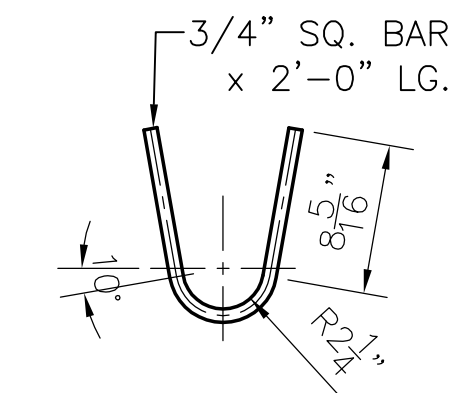
SECTION 5-A
3/8" = 1'-0"



DETAIL 4-A
3/8" = 1'-0"



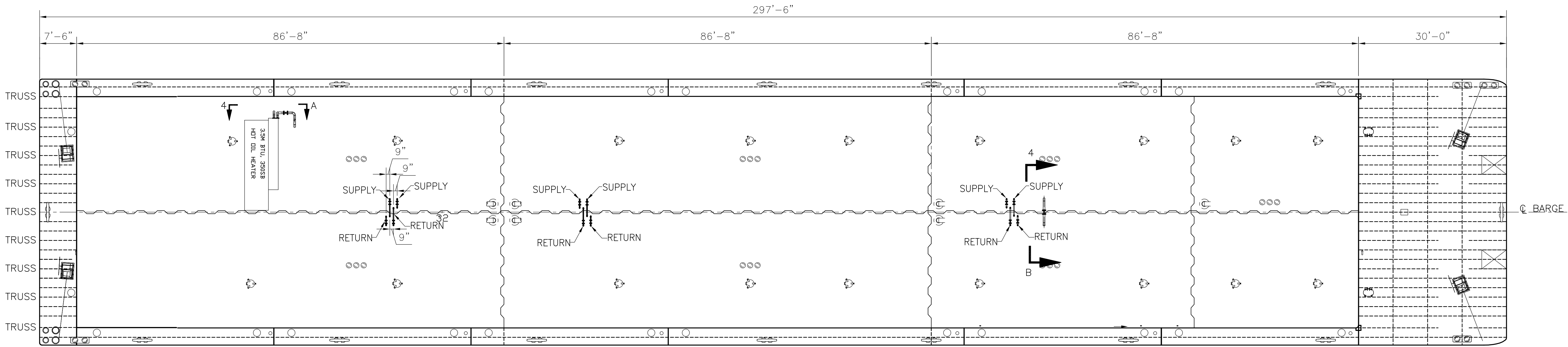
DETAIL 3-A
3/4" = 1'-0"



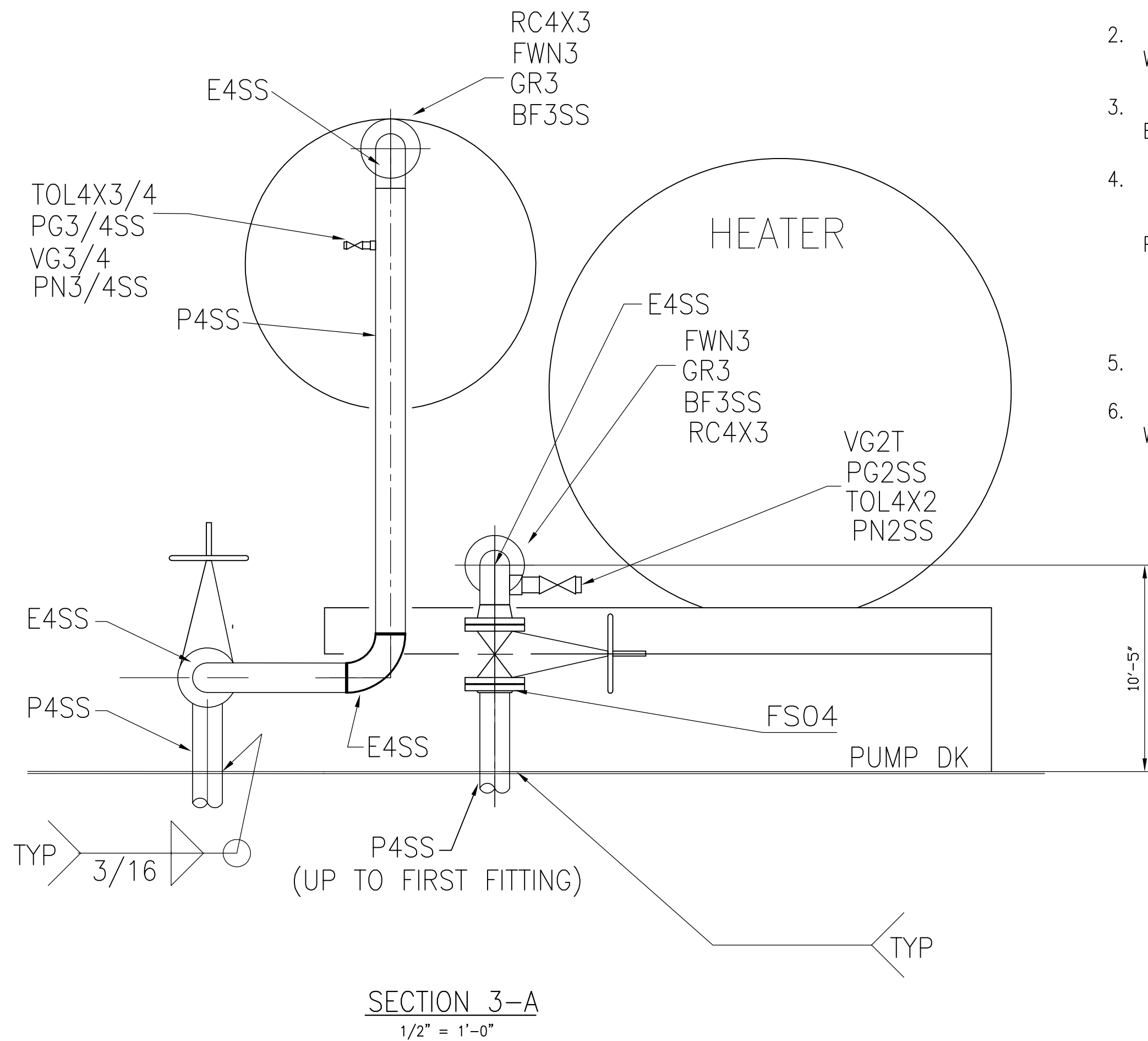
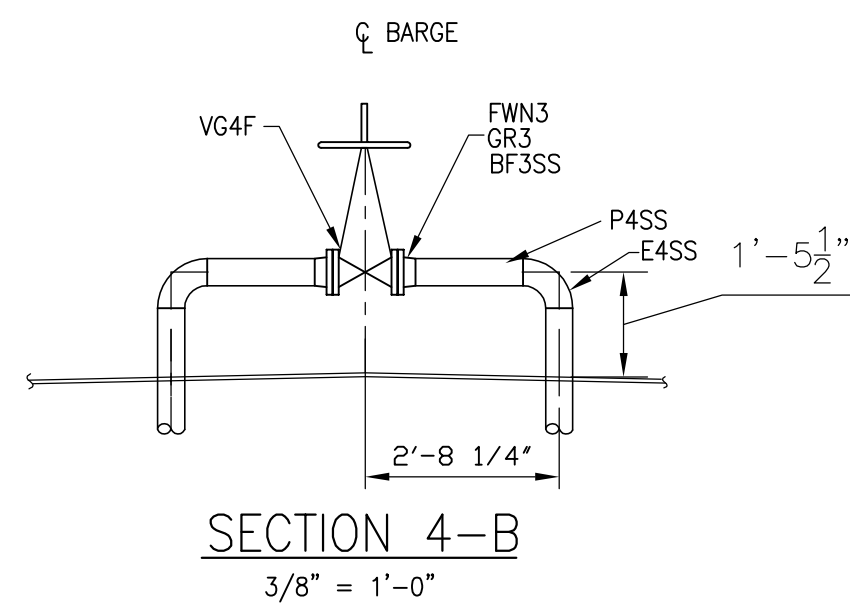
DETAIL 1-A
1 1/8" = 1'-0"

NO.	REVISION	BY	DATE
THE SHEARER GROUP, INC.			
NAVAL ARCHITECTS 3101 NASA ROAD ONE, SUITE 1 SEABROOK, TX. 77586			
297'-6" x 54'-0" x 12'-0" DOUBLE SKIN TANK BARGE			
SCALE: 3/32"=1'-0"	APPROVED BY:		DRAWN BY: CLB
DATE: 5/26/11			REV. No. 0
RAYMOND & ASSOCIATES, LLC			
HOT OIL PIPING, BELOW DECK			DRAWING NUMBER 110501-10

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DECK PLAN



GENERAL NOTES

1. ALL PIPING TO MEET USCG II REGULATIONS.
2. BACKING RINGS SHALL BE USED AT BUTT WELD JOINTS 2" AND LARGER
3. PIPES PASSING THROUGH WATER/OIL TIGHT BOUNDARIES TO BE WELDED BOTH SIDES.
4. HOT OIL SYSTEM:

TEMPERATURE MAX	399 DEG. F
PRESSURE, WORKING	40 PSI
DESIGN	50 PSI
TEST	75 PSI
RELIEF VALVE	50 PSI
5. MATERIAL TO BE AS SPECIFIED OR EQUAL.
6. LABELS TO BE INSTALLED ON ALL VALVES WHERE REQUIRED TO IDENTIFY SERVICE.

PN2SS	2", NIPPLE, SCH. 40, 316SS	A-312	B36.10
TOL4X2	4 X 2, THREDOLET, 3000#, 316SS	A-182-316	B16.11
8CM	MALE CONNECTOR, 1/2" OD TUBE X 1/2" MPT, 316SS	A-479	
TS1/2	1/2", TUBING, 0.035" WALL, 316SS, COLD DRAWN	A-450	
RE4X3	4X3 ECCE. REDUCER, SCH 40, BW, 316SS	A-182-316	B16.9
VR3F	BACK PRESS. REGULATOR, 300#, FLG'D, TEM MAX. 400F, SET @ 40 PSI BACK PRESSURE, CAST IRON	A-126	B16.5
PG1/2	1/2" PLUG, 3000#, 316SS, SQ. HEAD, SCR'D.	A-182-316	B16.11
TOL4X1/2	4 X 1/2, THREDOLET, 3000#, 316SS	A-182-316	B16.11
BF4SS	BOLTS, 5/8"Ø X 3" LG. FOR 4" FLG.	BOLT: 304 NUT: 316	B18.2.1 B18.2.2
GR4	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 4" FLG., TEFLON OR EQ.		
FWN4	4", WELD NECK FLANGE, 150#, R.F., 316SS	A-182-316	B16.5
VG4F	4" GATE VALVE, 150#, CF-8M BODY/316SS TRIM	A-351	B16.10
PN3/4SS	3/4", NIPPLE, SCH. 40, 316SS		
VG3/4	3/4", GATE VALVE, 200#,SCR'D, R.S., SS	A-315	B16.11
PG3/4SS	3/4" PLUG, 3000#, 316SS, SCR'D	A-182-316	B16.11
TOL4X3/4	4 X 3/4, THREDOLET, 3000#, 316SS	A-182-316	B16.11
BF3SS	BOLTS, 5/8"Ø X 3" LG. FOR 3" FLG.	BOLT: 304 NUT: 316	B18.2.1 B18.2.2
GR3	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 3" FLG., TEFLON OR EQ.		
FWN3	3", WELD NECK FLANGE, 150#, R.F., 316SS	A-182-316	B16.5
RC4X3	4X3 CONC. REDUCER, SCH 40, BW, 316SS	A-182-316	B16.9
E4SS	4" ELBOW, 90°, BW, SCH 40, 316SS	A-182-316	B16.9
VG2T	2" GATE VALVE, 150#, CF-8M BODY/316 TRIM, SCR'D.	A-351	B16.10
E4	4" ELBOW, 90°, BW, SCH 40, STEEL	A-234	B16.9
BF2SS	BOLTS, 5/8"Ø X 2 3/4" LG. FOR 2" FLG.	BOLT: 304 NUT: 316	B18.2.1 B18.2.2
GR2	RING GASKET, 1/8" THK., NON-ASBESTOSS, 150# 2" FLG., TEFLON OR EQ.		
FSO2SS	2" SLIP ON FLANGE, 150#, RF, 316SS	A-182-316	B16.5
VG2F	2" GATE VALVE, 150#, CF-8M BODY/316 TRIM, FLANGED	A-351	B16.10
CT2SS	2" COUPLING, 3000#, SCR'D, 316SS	A-182-316	B16.11
PG2SS	2" PLUG, 3000#, SQ. HEAD, SCR'D,316SS	A-182-316	B16.11
T2SS	2" TEE, 3000#, SW, 316SS	A-182-316	B16.11
SOL4X2	4 X 2 SOCKOLET, 3000#, 316SS	A-182-316	B16.11
CP2SS	2" FULL COUPLING, 3000#, SW, 316SS	A-182-316	B16.11
P2SS	2" PIPE, SCH. 40, SEAMLESS, 316SS	A-312	B36.10
P2	2" PIPE, SCH. 40, SEAMLESS, BLK. STEEL	A-53	B36.10
P4SS	4" PIPE, SCH. 40, SEAMLESS, 316SS	A-312	B36.10
P4	4" PIPE, SCH. 40, SEAMLESS, BLK. STEEL	A-53	B36.10
MARK	DESCRIPTION	ASTM NO.	ANSI NO.

BF3SSX	BOLTS, 5/8"Ø X 3" LG. FOR 3 1/4" FLG.	BOLT: 304 NUT: 316	B18.2.1 B18.2.2
GR3X	RING GASKET, 1/8" THK., NON-ASBESTOSS, 300# 3" FLG., TEFLON OR EQ.		
FWN3X	3", WELD NECK FLANGE, 300#, R.F., 316SS	A-182-316	B16.5
FB4	4", BLIND FLANGE, 150#, R.F., 316SS	A-182-316	B16.5

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