Response Marine # 620: Drawing List 9/29				
#620 -1	Outboard Profile & Plan	9/29/21		
-2	Inboard Profile & Arrangement	9/29/21		
-3	End Views	9/29/21		
-3 -4	Deck Hatches & Rigging Runs	9/29/21		
-4	Deck Hatches & Rigging Runs	3/23/21		
#620 -2-1	Frame Locations	9/29/21		
-2-2	Keel Layout	9/29/21		
-2-3	Bottom & Chine Layout	9/29/21		
-2-4	Bottom Stiffeners-Forward	9/29/21		
-2-5	Topside Plate & Stringers	9/29/21		
-2-6	Bow	9/29/21		
-2-7A	Transom	9/29/21		
-2-7B	False Transom	9/29/21		
-2-8	Side Decks	9/29/21		
-2-9	Foredeck	9/29/21		
-2-10	Cockpit Deck	9/29/21		
-2-11	Engine Deck	9/29/21		
-2-12	Deck Soft Patch- DP-6	9/29/21		
-2-13	Anchor Locker Bottom	9/29/21		
-2-14	Transom Bhd	9/29/21		
-2-15	Dive Door Parts & Marks	9/29/21		
-2-16	Dive Door Sections	9/29/21		
-2-17	Lifting Eyes	9/29/21		
-3-1	Fuel Tank- 80 gal	9/29/21		
-3-2	Ullage Tank	9/29/21		
-3-3	Ullage Tank Mounting	9/29/21		
4.4	Occasion Boot O' Is	0/00/04		
-4-1	Console- Port Side	9/29/21		
-4-2	Console- Stbd Side, Helm	9/29/21		
-7-1	Hatch Doors	9/29/21		
-B-1	"B-1" Flange Forming	9/29/21		
-C-1	Hull Joint Details- Bottom	9/29/21		
-C-2	Hull Joint Details- Bow	9/29/21		
-F-1	Frame 1	9/29/21		
-F-2	Frame 2	9/29/21		
-F-3	Frame 3, WTBHD	9/29/21		
-F-3D	Assembly Dimensions- Frame 3, WTBHD	9/29/21		
-F-4	Frame 4	9/29/21		
-F-4D	Assembly Dimensions- Frame 4	9/29/21		
-F-5	Frame 5	9/29/21		
-F-6	Frame 6, WTBHD	9/29/21		
-F-6D	Assembly Dimensions- Frame 6, WTBHD	9/29/21		
-F-7	Frame 7	9/29/21		
-F-8	Frame 8	9/29/21		

## Response Marine, Inc.

NC Cut Parts
Design #620, 25'11' Cathedral for Michels Corp. File: RMIDes\Reconcraft\576 24' Cathedral\Deriv\620

Revised: 9/30/21 Print Date: 9/30/21

1	/Q"	<b>Parts</b>	5052
	ın	Falls	SUSZ

Part #	<u>Pieces</u>	<u>Description</u>	Bend (all bends on 1/8" 5052 are 1/4" IS Radius)
C-PE	1	Console, Port glovebox wall	
H-C	2	Hatch- Consoles inboard side	(4) each
H-TA	1	Hatch Door- Transom Bhd center	(4)
H-TB	2	Hatch Door- Transom Bhd outboard	(4) each
T-UA	1	Ullage Tank, Top & ends	(2)
T-UB	1	Ullage Tank, Bottom & sides	(2)
	8	Total Pieces (3/16", 5052)	

#### 3/16" Parts, 5052 TREAD PLATE

<u>Part #</u>	Pieces	<u>Description</u>	Bend
ALB-P	1	Anchor Locker Bottom, Port	
ALB-S	1	Anchor Locker Bottom, Stbd	
D-AP	1	Deck Body, F1 to F3, Port	
D-AS	1	Deck Body, F1 to F3, Stbd	
D-BP	1	Deck Body, F3 to F6, Port	
D-BS	1	Deck Body, F3 to F6, Stbd	
D-CP	1	Deck Body, F6 to FTran, Port	
D-CS	1	Deck Body, F6 to FTran, Stbd	
DD-CS	1	Dive Door Coaming Step	
D-E	1	Deck at Engine Platform, Center	
D-EP	1	Deck at Engine Platform, Port	
D-ES	1	Deck at Engine Platform, Stbd	
DM-P	1	Deck Margin, F3-FTran, Port	
DM-S	1	Deck Margin, F3-FTran, Stbd	
DP-6	1	Deck Plate Soft Patch #6	
FD	1	Foredeck	
SD-P	1	Side Decks, Port	
SD-S	1	Side Decks, Stbd	
TR-D	1	Transom Deck	
	19	Total Pieces (3/16", 5052 TREAD PLATE)	

# 3/16" Parts 5052

Part #	Pieces	<u>Description</u>	Bend (all bends on 3/16" 5052 are 1/4" IS Radius)
C-PA	1	Console, Port inboard Side	(2)
C-PB	1	Console, Port top	(1)
C-PC	1	Console, Port aft lower	(1)
C-PD	1	Console, Port outboard side	,
C-SA	1	Console, Stbd inboard Side	(2)
C-SB	1	Console, Stbd top	(1)
C-SC	1	Console, Stbd aft faces	(2)

C-SD	1	Console, Stbd outboard side	
ST-AP	1	Scupper Tube, Tran Bhd to False Transom, Port	(1)
ST-AS	1	Scupper Tube, Tran Bhd to False Transom, Stbd	(1)
T-A	1	Tank Body	(4)
T-BL	1	Tank Baffle, Longitundinal	, ,
T-BT	2	Tank Baffle, Transverse	
T-C	2	Tank End	
T-D	1	Tank Top	
		·	

17 Total Pieces (3/16", 5052)

## 3/16" Parts 5086 Marine

Part #	Pieces	<u>Description</u>	<u>Bend</u>
ALD OD	2	Anchor Locker Bottom, Fillers OB at Chines	
ALB-OB BG-P	2 1		P 1 Flores per Dwg #620 P 1
BG-P BG-S	1	Bow Girder, Port Bow Girder, Stbd	B-1 Flange, per Dwg #620-B-1
BO-3 BOW			B-1 Flange, per Dwg #620-B-1
BS-1AP	1	Bow Face, (above Bow Slant)	(2) 1/2" radius
	1	Bow Stiffener #1, fwd of F1, Port	B-1 Flange, per Dwg #620-B-1
BS-1AS	1	Bow Stiffener #1, fwd of F1, Stbd	B-1 Flange, per Dwg #620-B-1
BS-2AP	1	Bow Stiffener #2, fwd of F1, Port	B-1 Flange, per Dwg #620-B-1
BS-2AS	1	Bow Stiffener #2, fwd of F1, Stbd	B-1 Flange, per Dwg #620-B-1
DD-FA	1	Dive Door Frame, Fwd	B-1 Flange, per Dwg #620-B-1
DD-FB	1	Dive Door Frame, Aft	B-1 Flange, per Dwg #620-B-1
DD-HF	1	Dive Door Hull Frame Aft	B-1 Flange, per Dwg #620-B-1
DD-HT	1	Dive Door Hull Threshold	B-1 Flange, per Dwg #620-B-1
DP-6R F1	1	Deck Plate Soft Patch Ring #6	
F1 F2	1 1	Frame 1	P 1 Flores per Dwg #620 P 1
F3	1	Frame 2 Frame 3, WTBHD	B-1 Flange, per Dwg #620-B-1 B-1 Flange, per Dwg #620-B-1
F3-P	1	Frame 3, Upper, Port	B-1 Flange, per Dwg #620-B-1
F3-S	1	Frame 3, Upper, Stbd	B-1 Flange, per Dwg #620-B-1
F4	1	Frame 4	B-1 Flange, per Dwg #620-B-1
F4-P	1	Frame 4, Upper Port	B-1 Flange, per Dwg #620-B-1
F4-S	1	Frame 4, Upper Stbd	B-1 Flange, per Dwg #620-B-1
F5	1	Frame 5	B-1 Flange, per Dwg #620-B-1
F6	1	Frame 6	B-1 Flange, per Dwg #620-B-1
F6-P	1	Frame 6, Upper, Port	B-1 Flange, per Dwg #620-B-1
F6-S	1	Frame 6, Upper, Stbd	B-1 Flange, per Dwg #620-B-1
F7	1	Frame 7	B-1 Flange, per Dwg #620-B-1
F8	1	Frame 8	B-1 Flange, per Dwg #620-B-1
FDC	1	Foredeck Coaming	
FTRAN	1	False Transom	(1) 1/2" radius
FTS-P	1	False Transom Stiffener, Port	B-1 Flange, per Dwg #620-B-1
FTS-S	1	False Transom Stiffener, Stbd	B-1 Flange, per Dwg #620-B-1
ST-P	1	Scupper Tube Wall/Engine Deck Stiff, Port	B-1 Flange, per Dwg #620-B-1
ST-S	1	Scupper Tube Wall/Engine Deck Stiff, Stbd	B-1 Flange, per Dwg #620-B-1
TB-P	1	Transom Bulkhead, Stbd	
TB-S	1	Transom Bulkhead, Port	
TDC	1	Transom Deck Coaming	
TK-P	1	Transom Knee, Port	B-1 Flange, per Dwg #620-B-1
TK-S	1	Transom Knee, Stbd	B-1 Flange, per Dwg #620-B-1
TSL-AP	1	Topsides Stringer, Chine to F3, Port	B-1 Flange, per Dwg #620-B-1
TSL-AS	1	Topsides Stringer, Chine to F4, Stbd	B-1 Flange, per Dwg #620-B-1
TSL-BP	1	Topsides Stringer, at Dive Door, Port	B-1 Flange, per Dwg #620-B-1
TSL-BS	1	Topsides Stringer, F4- to F6, Stbd	B-1 Flange, per Dwg #620-B-1
TSL-CP	1	Topsides Stringer, F4- to F6, Port	B-1 Flange, per Dwg #620-B-1
TSL-CS	1	Topsides Stringer, F6 to FTran, Stbd	B-1 Flange, per Dwg #620-B-1
TSL-DP	1	Topsides Stringer, F6 to FTran, Port	B-1 Flange, per Dwg #620-B-1

TS-P 1 Topsides TS-S 1 Topsides

48 Total Pieces (3/16", 5086)

# 1/4" Parts, 5086 Marine

<u>1/4" Parts, :</u>	ouso iviari	
Part #	<u>Pieces</u>	<u>Description</u>
BOT-P	1	Bottom Plate, Port
BOT-S	1	Bottom Plate, Stbd
BS-1P	1	Bottom Longitudinal #1, Port
BS-1S	1	Bottom Longitudinal #1, Stbd
BS-2P	1	Bottom Longitudinal #2, Port
BS-2S	1	Bottom Longitudinal #2, Stbd
BS-3P	1	Bottom Longitudinal #3, Port
BS-3S	1	Bottom Longitudinal #3, Stbd
BS-A	1	Bottom Transverse Stiff fwd of F1, Lower
BS-B	1	Bottom Transverse Stiff fwd of F1, Upper
C-P	1	Chine, Port
C-S	1	Chine, Stbd
DD-DB	1	Dive Door Bottom/Hinge Plate
F8-S	1	Frame 8, Centerline Stiffener, aft side
FDS-1	2	Foredeck Stiffener #1
FDS-2	2	Foredeck Stiffener #2
SDC-AP	1	Side Deck Coaming, Slanted, end at F1, Port
SDC-AS	1	Side Deck Coaming, Slanted, end at F1, Stbd
SDC-BP	1	Side Deck Coaming, Slant to False Transom, Port
SDC-BS	1	Side Deck Coaming, Slant to False Transom, Stbd
TK-A	2	Transom Knee Bridge, BS2-BS3
TR-S	2	Transom, Horizontal Stiffener
TR-WLS	1	Topsides Wing Lip, Stbd.
TS-WLP	1	Topsides Wing Lip, Port
	28	Total Pieces (1/4")
	20	10101110000 (1/11)

#### 3/8" Parts. 5086 Marine

3/6 Parts, 3	UOD WIATI	<u>ne</u>
Part #	<u>Pieces</u>	<u>Description</u>
KA	1	Keel, Fwd
KB	1	Keel, Mid
KC	1	Keel, Aft
TR	1	Transom
TR-LA	2	Transom Lip, Lower Outboard
TR-LB	1	Transom Lip, Upper Center
TR-LE	2	Transom Lip, End of Center, port & stbd
	0	T-4-1 D: (0/011)
	9	Total Pieces (3/8")
	102	Total Cut Parts
	102	Total Gut Falts

Response Marine, Inc. <u>Extrusion List</u>
File: RMIDes\Reconcraft\576 24' Cathedral\Deriv\620

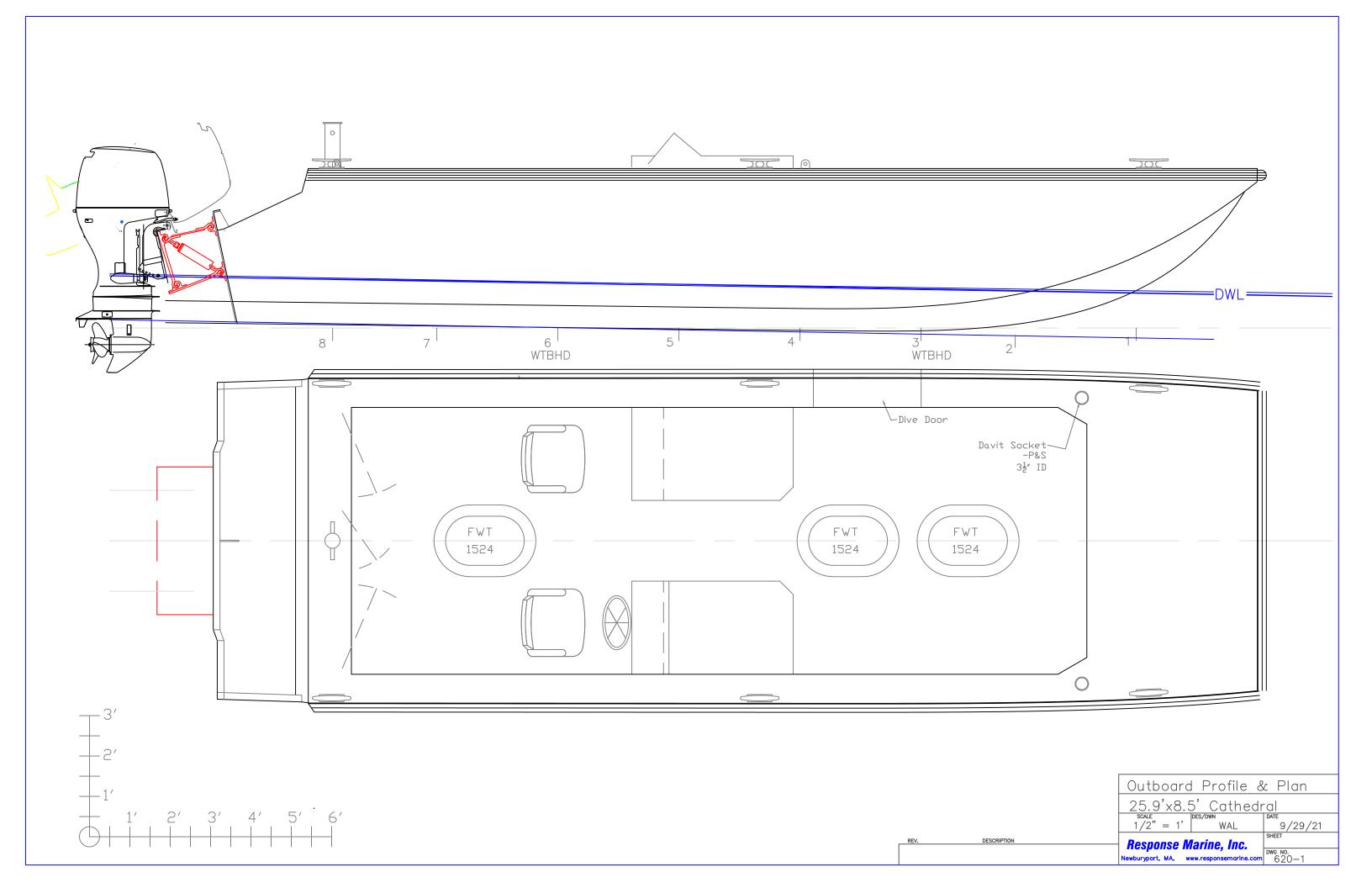
Design #620, 25'11' Cathedral for Michels Corp. Revised: 9/30/21

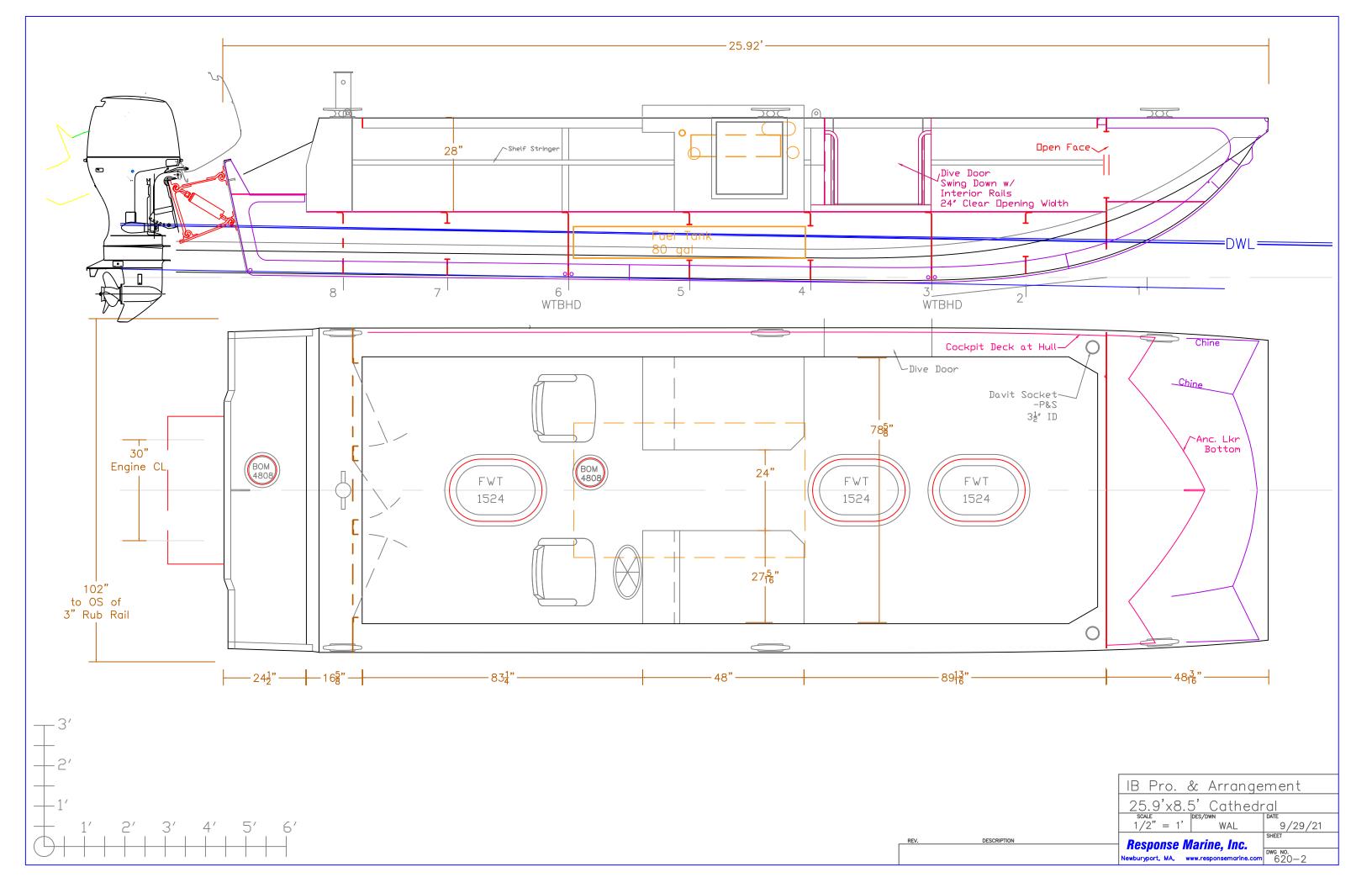
9/30/21 Print Date: 9/30/21

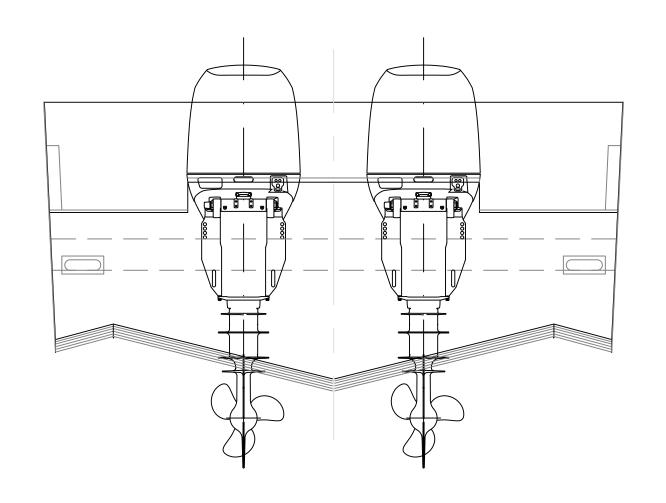
#### **EXTRUSION**

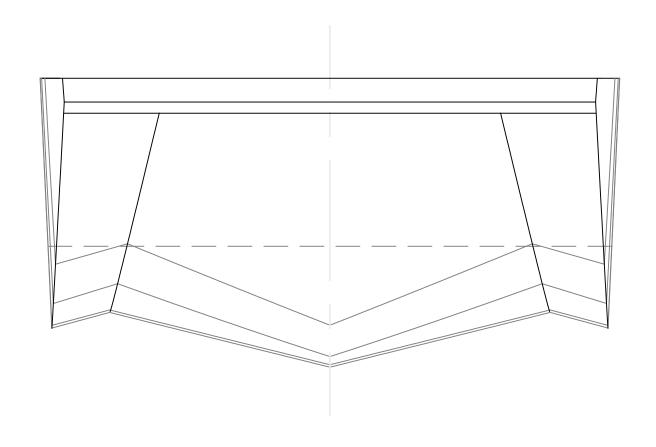
EXTRODION						
Use	QTY	Description	Alloy	Length	Wt/Ft	Wt
Frame Flanges	4	Flat Bar 1.5x.188"	6061 T6	12	0.332	16
Lift Eyes	1	Flat Bar 2.5" x .500"	6061 T6	12	1.475	18
Tank & Hatch Frames	3	Angle, Am. Std., 1.5x1.5x.188"	6061 T6	25	0.622	47
Rub Rail, Requires Ripping	5	Angle, Am. Std., 1x1x.250"	6061 T6	25	0.622	78
Deck	7	Sq. Tube 1.5 x .188"	6061 T6	24	1.160	195
Fuel Tank Fill	1	Round Tube 1.5" OD x .125" wall	6061 T6	12	0.635	8 Only need ~ <b>6"</b>
Dive Door Rails	1	Pipe, .75" sch 40	6063	20	0.390	8 Only need ~6'
Collars/Conduit	2	Pipe, 1.5" sch 40	6061 T6	20	0.940	38 Only need ~3'
DD Hinge, possible Rails	1	Pipe, 1" Sch 40	6061 T6	20	0.580	12 Only need ~4'
Collars/Conduit	1	Pipe, 3" Sch 40	6061 T6	20	2.620	52 Only need ~3'
Tow Post	1	Pipe, 4" Sch 40	6061 T6	20	3.73	75 Only need ~6'

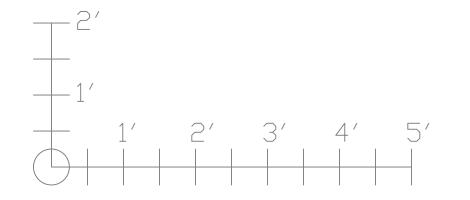
Sub Total Extrusion	545
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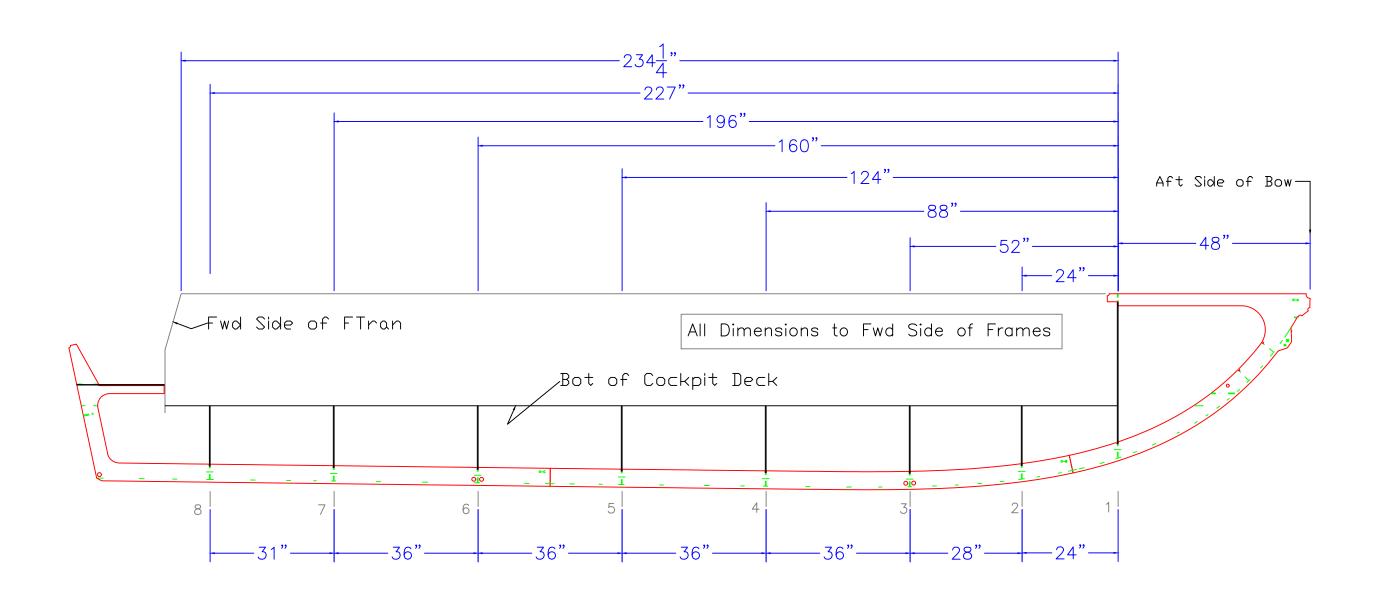






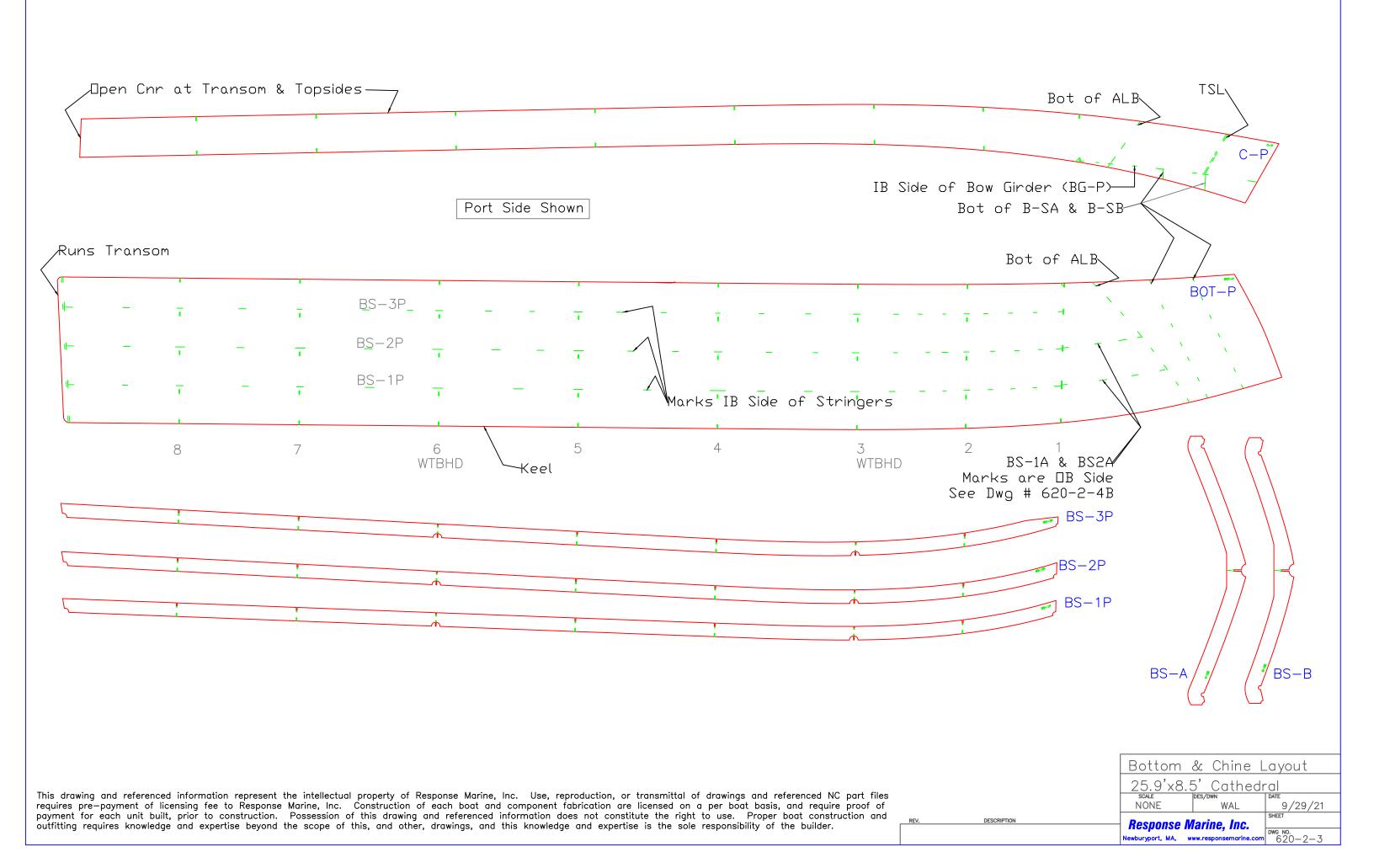


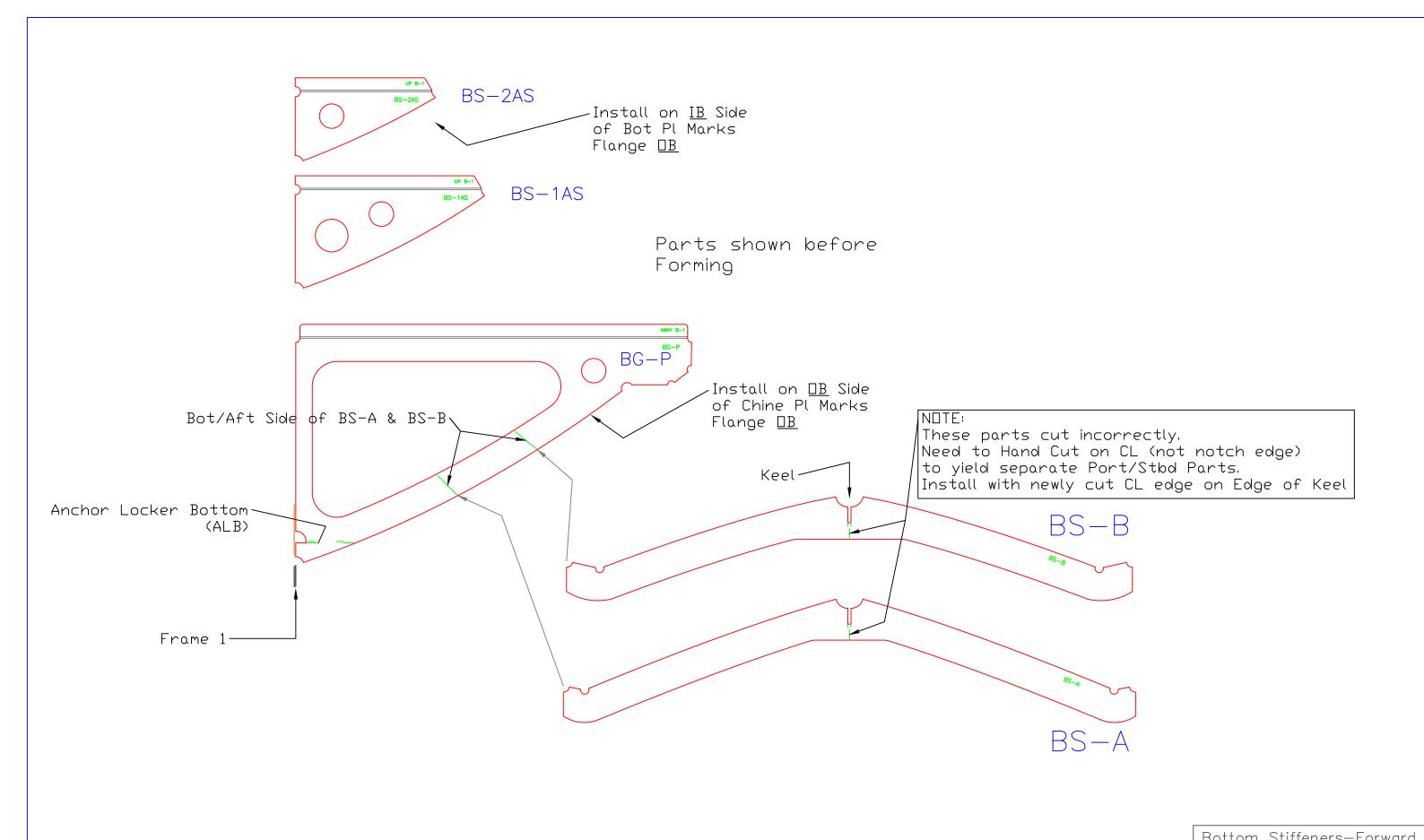
End View	'S	
	5' Cathedr	
$\frac{\text{SCALE}}{3/4"} = 1'$	DES/DWN WAL	9/29/21
Response M	larine. Inc.	SHEET
_	ww.responsemarine.com	DWG NO. 620-3



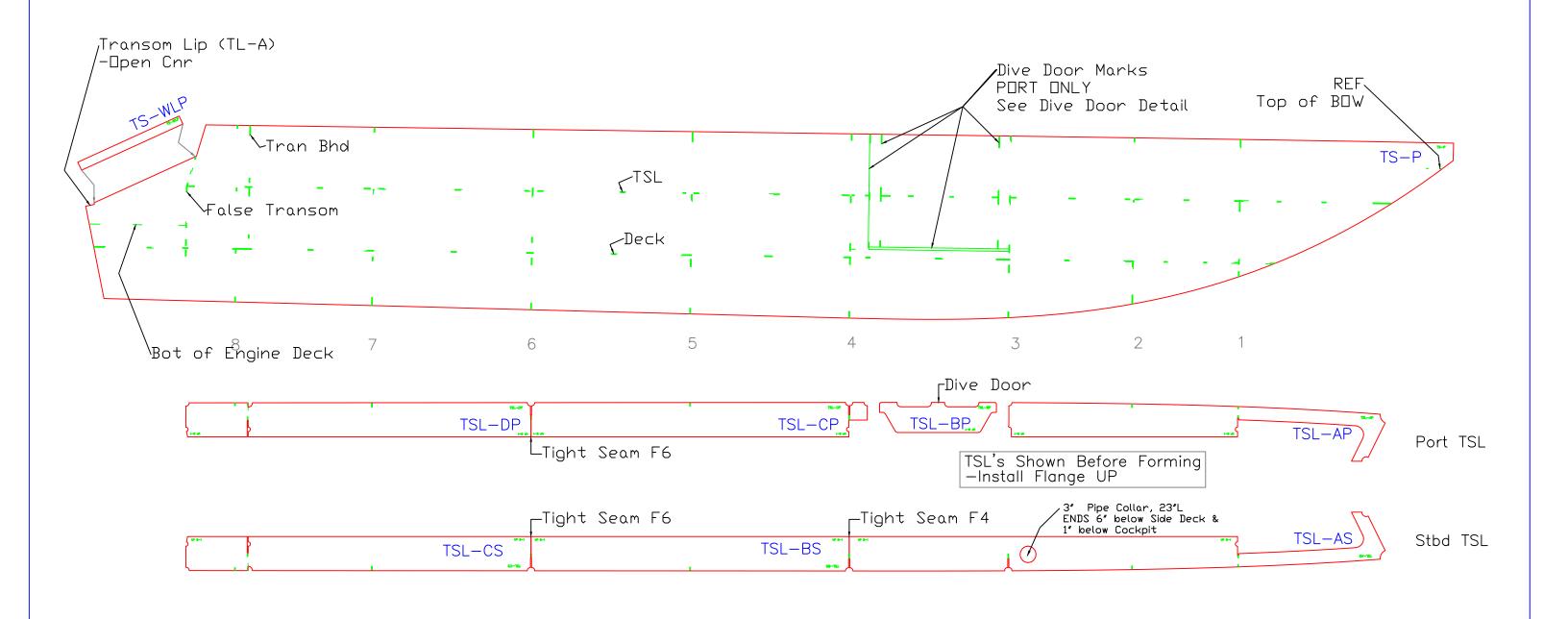
			25.9'x8.5' Cathedral		
		SCALE 1 /2" — 1'	DES/DWN	DATE	
			1/2" = 1'	WAL	9/29/21
	REV.	DESCRIPTION	Response Marine, Inc.		SHEET
				ww.responsemarine.com	DWG NO. 620-2-1
_				•	020 2 .

Frame Locations

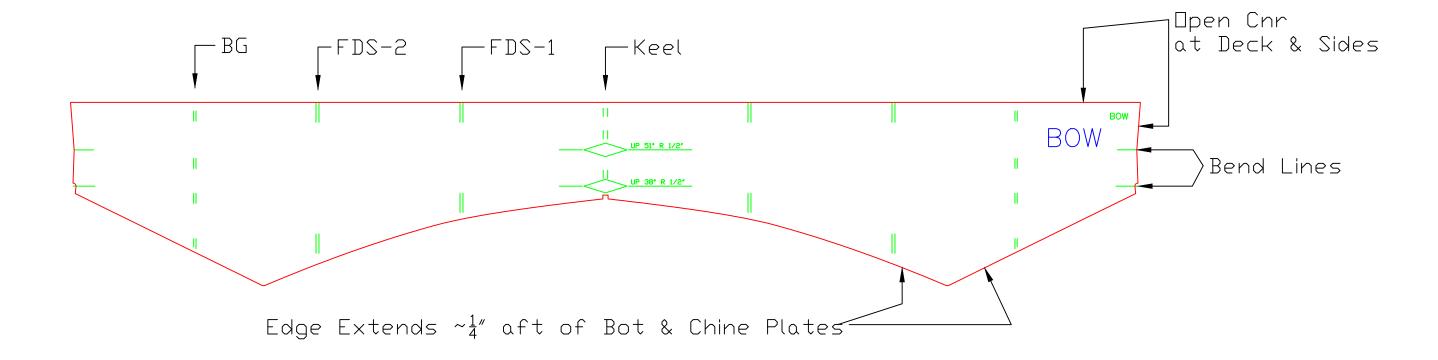




	Bottom Stilleners—Forward			
	25.9'x8.5	5' Cathedr	ral	
	SCALE NONE	DES/DWN WAL	9/29/21	
DESCRIPTION	Response M	larine Inc	12/6/21	
, 12/6/21; BS-A/B Note	· •	WW responsemarine com	DWG NO.	



		Topside Plate & Stringers		
		25.9'x8.5' Cathedral		
		SCALE NONE	DES/DWN WAL	9/29/21
REV. DESCRIPTION		Response Marine, Inc. 12/13/21		
R1,	12/13/21— Deck Pipe Length		www.responsemarine.com	DWG NO. 620-2-5.r1

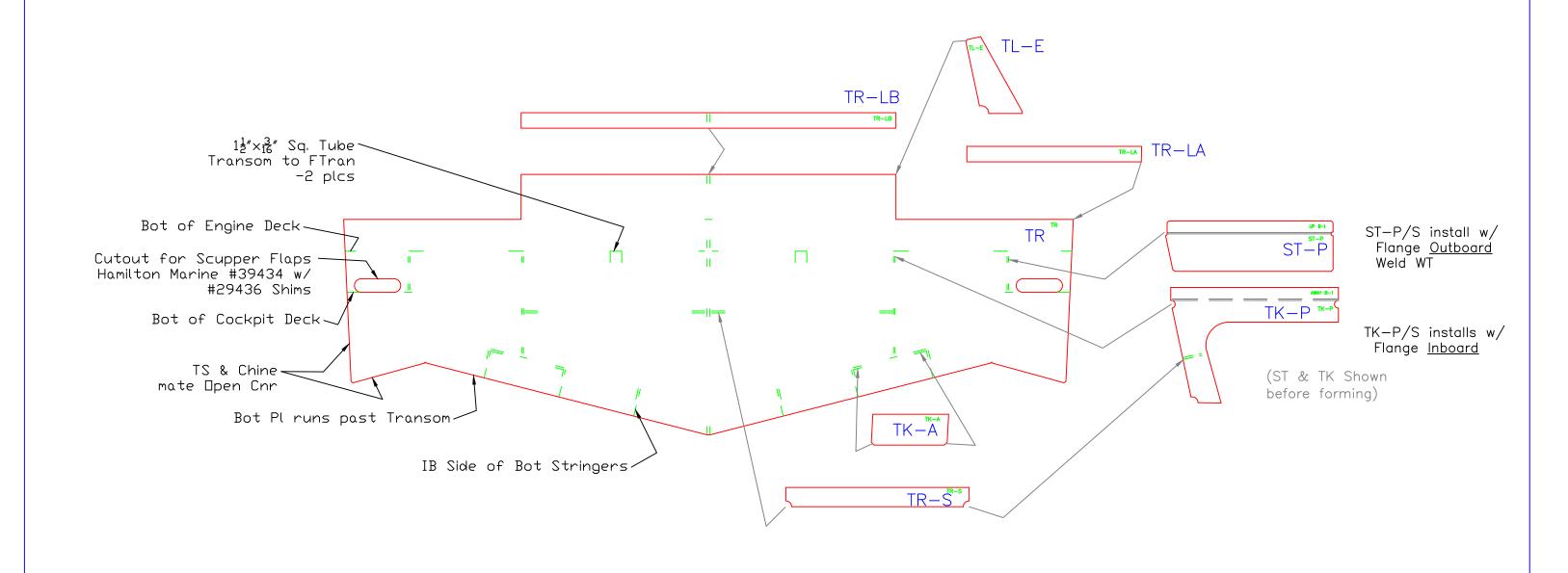


Bow

25.9'x8.5' Cathedral

SCALE
1 1/2"=1' WAL 9/29/21

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com 620-2-6



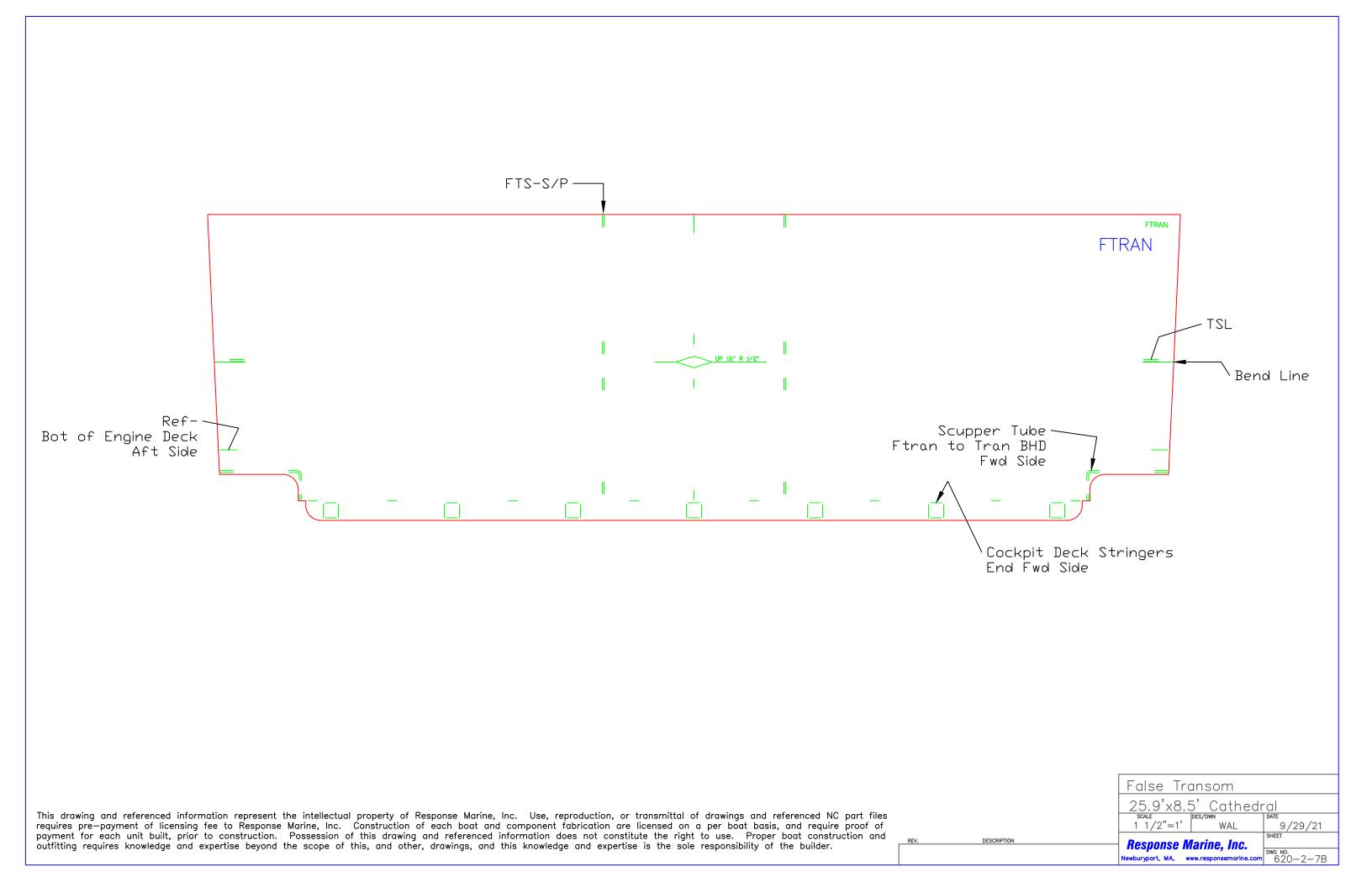
Transom

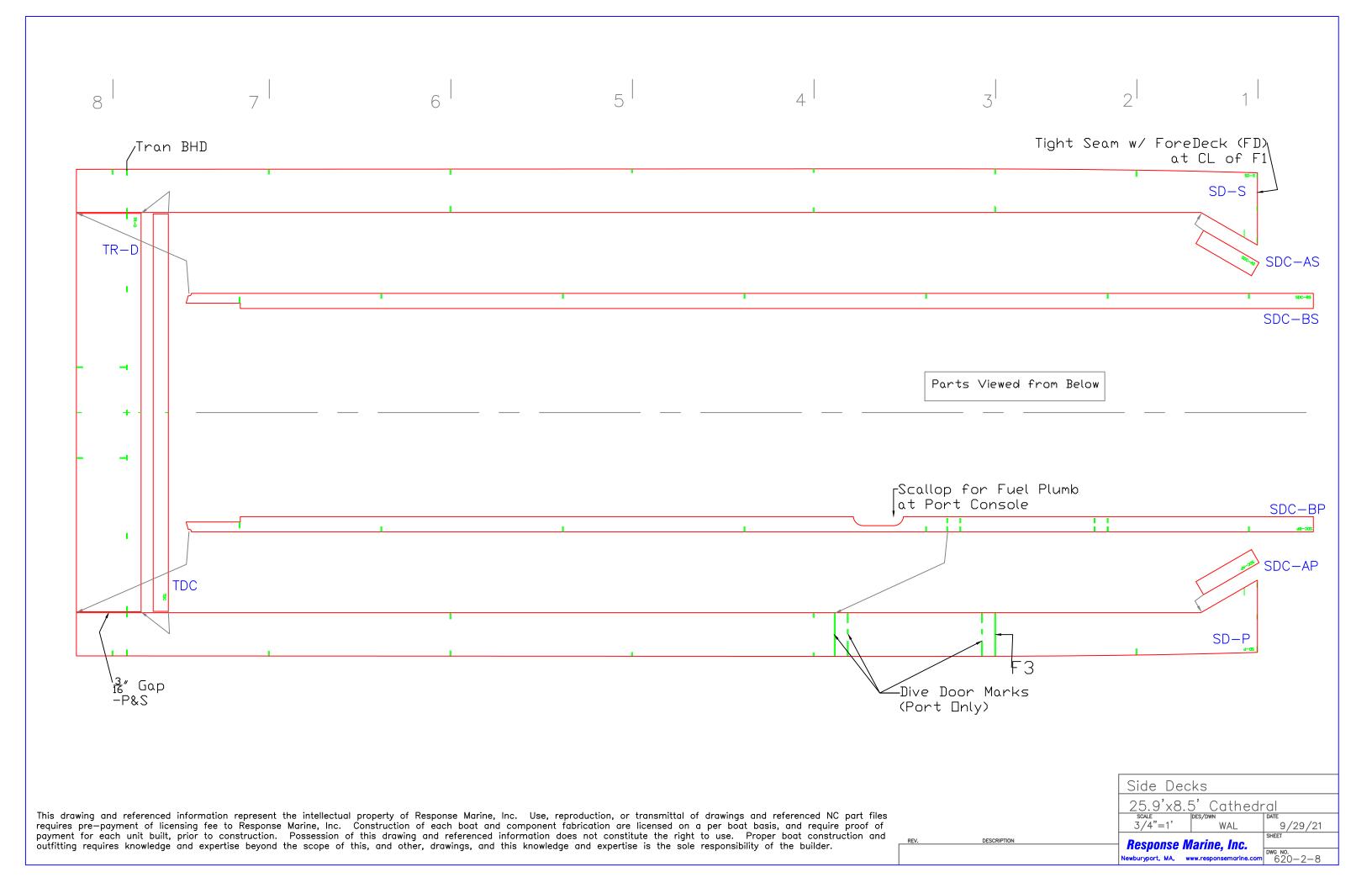
25.9'x8.5' Cathedral

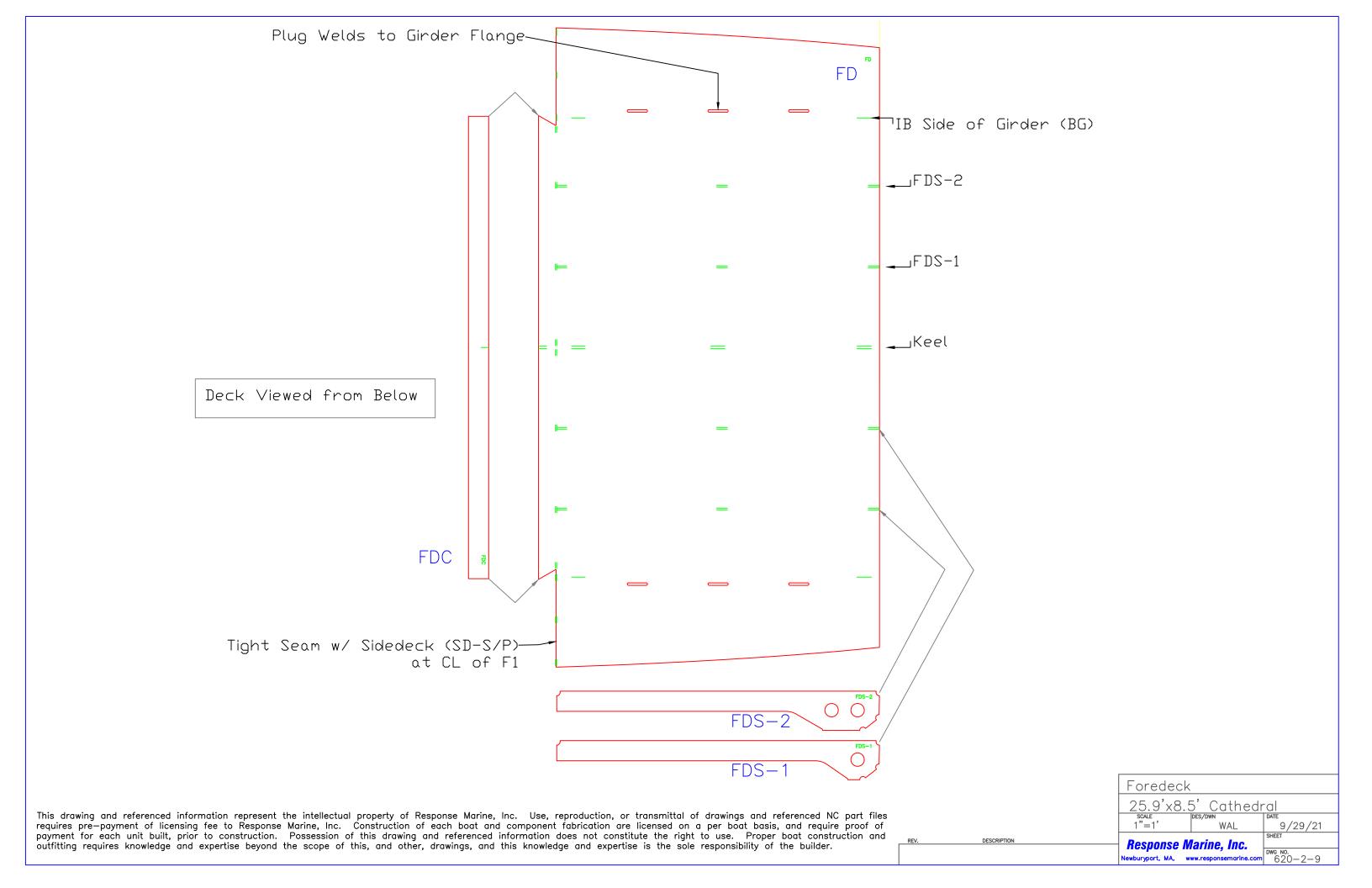
SCALE
1"=1' WAL DATE
9/29/21

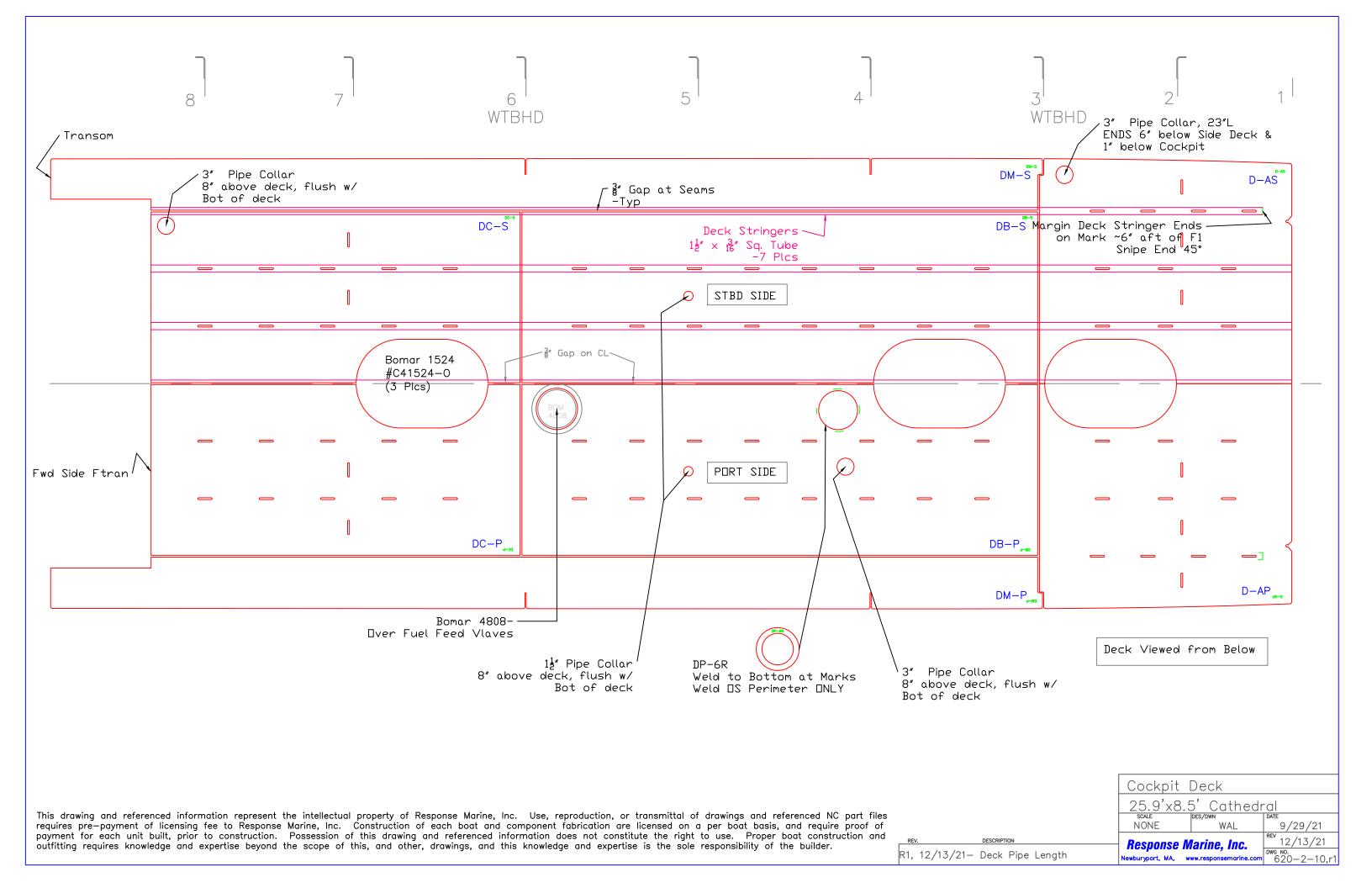
Response Marine, Inc.

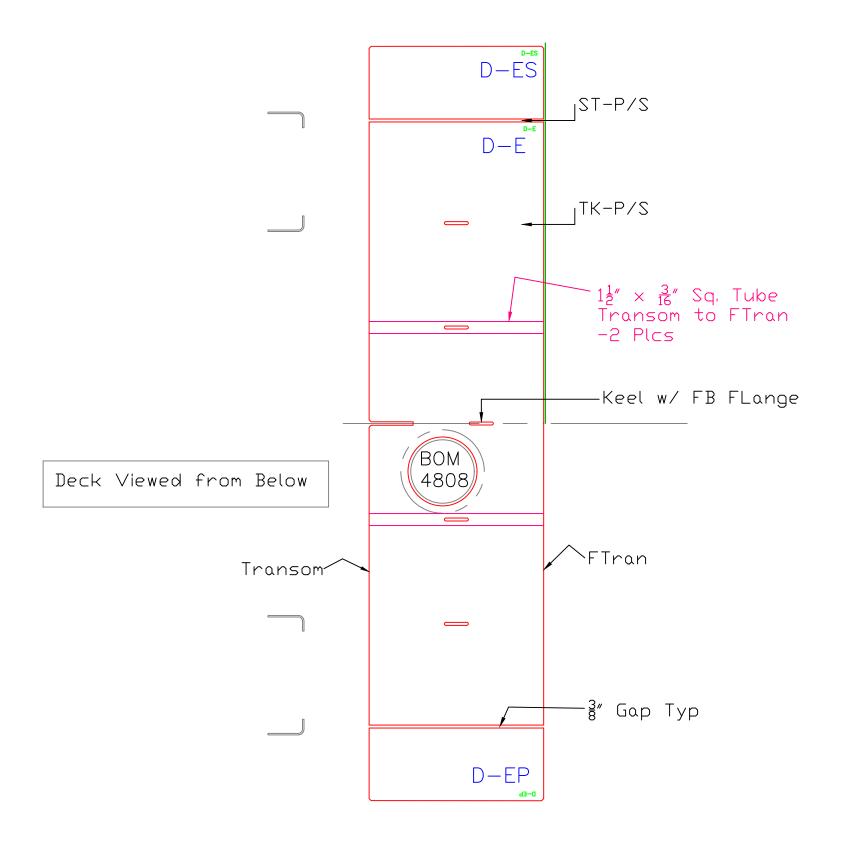
Newburyport, MA, www.responsemarine.com
620-2-7A



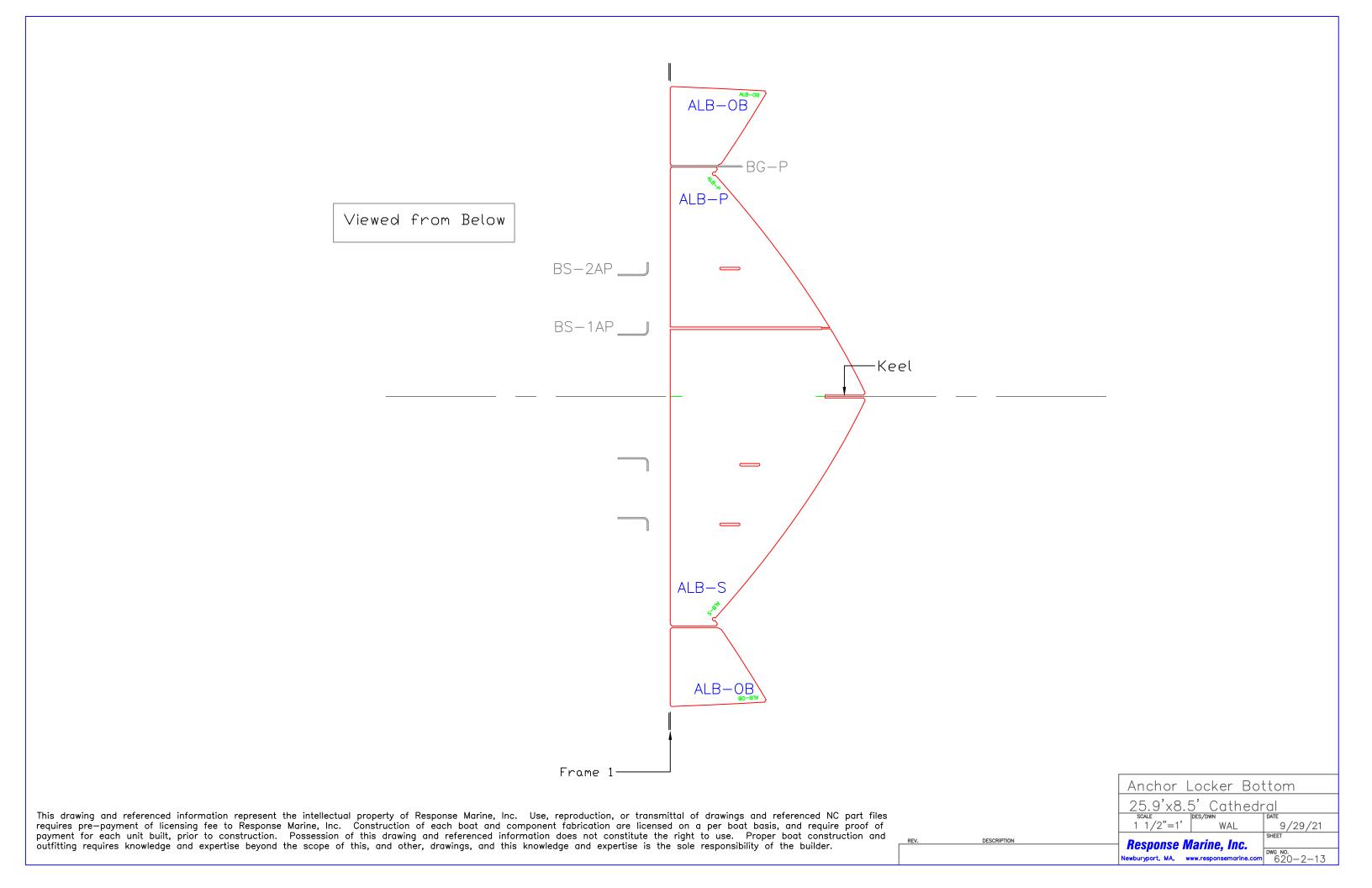


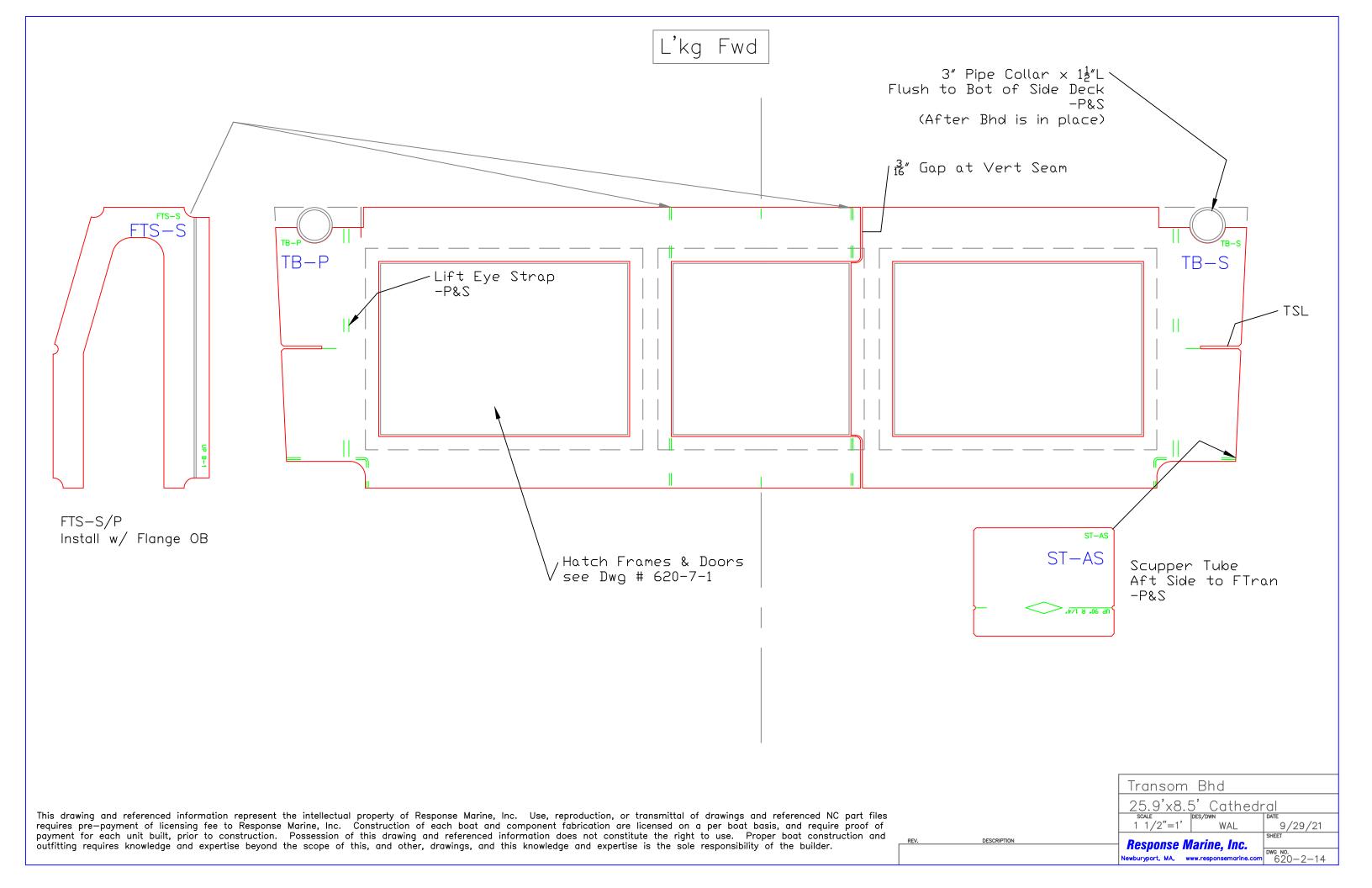


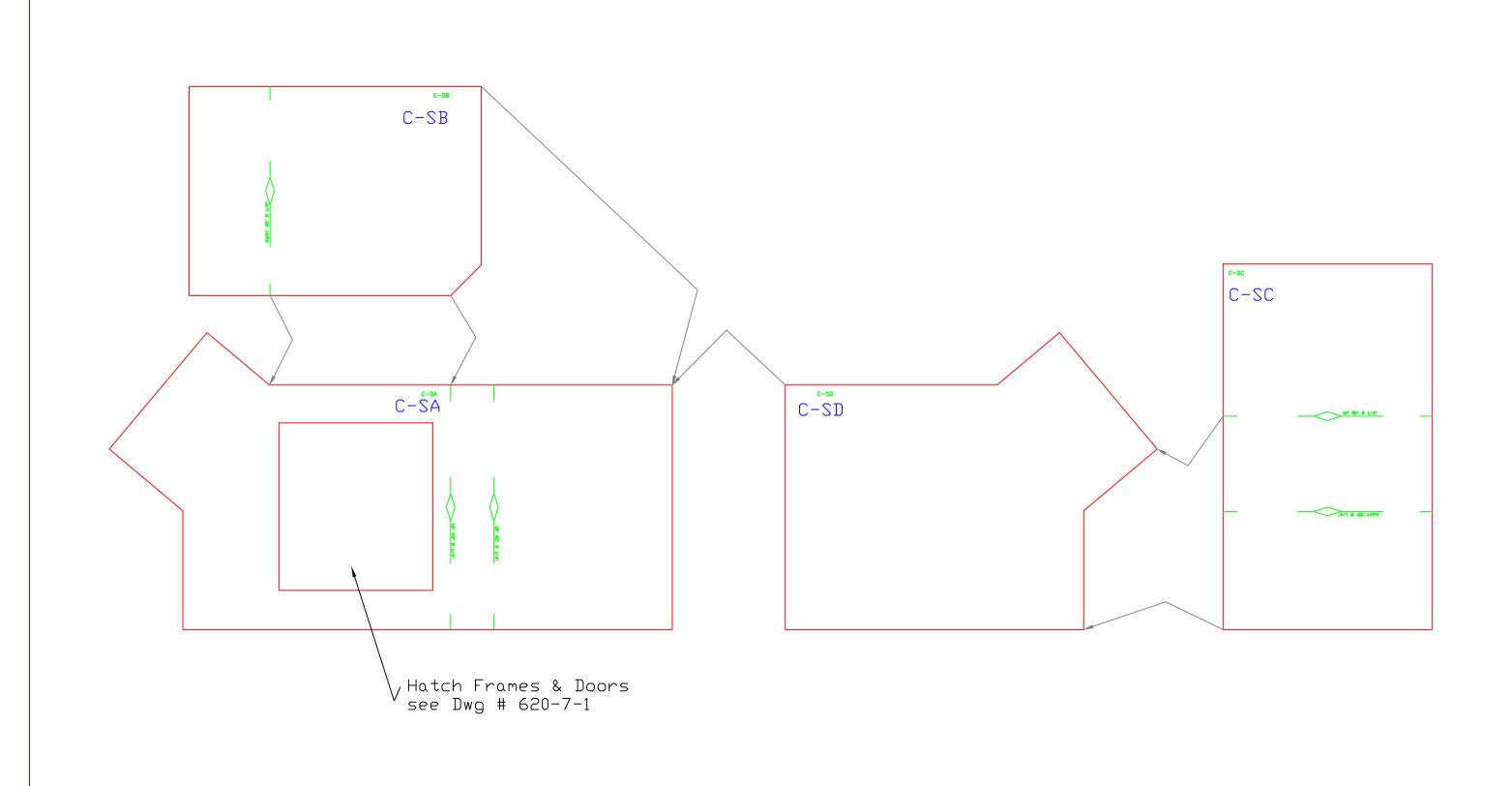




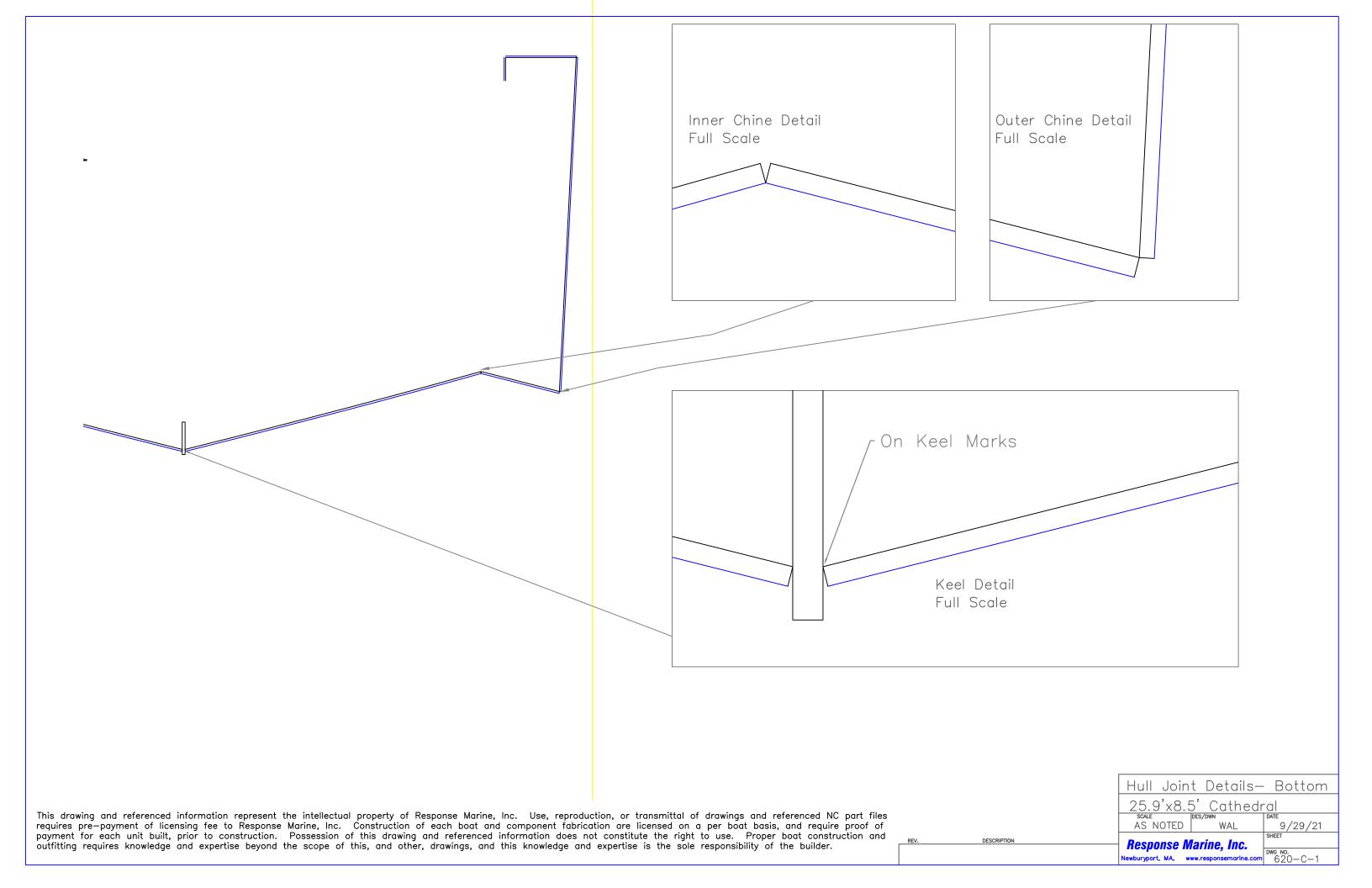
Engine Deck				
25.9'x8.5' Cathedral				
SCALE	DES/DWN	DATE		
1"=1'	WAL	9/29/21		
· ·		SHEET		
 — Response Marine, Inc.				
•	ww.responsemarine.com	DWG NO. 620-2-11		

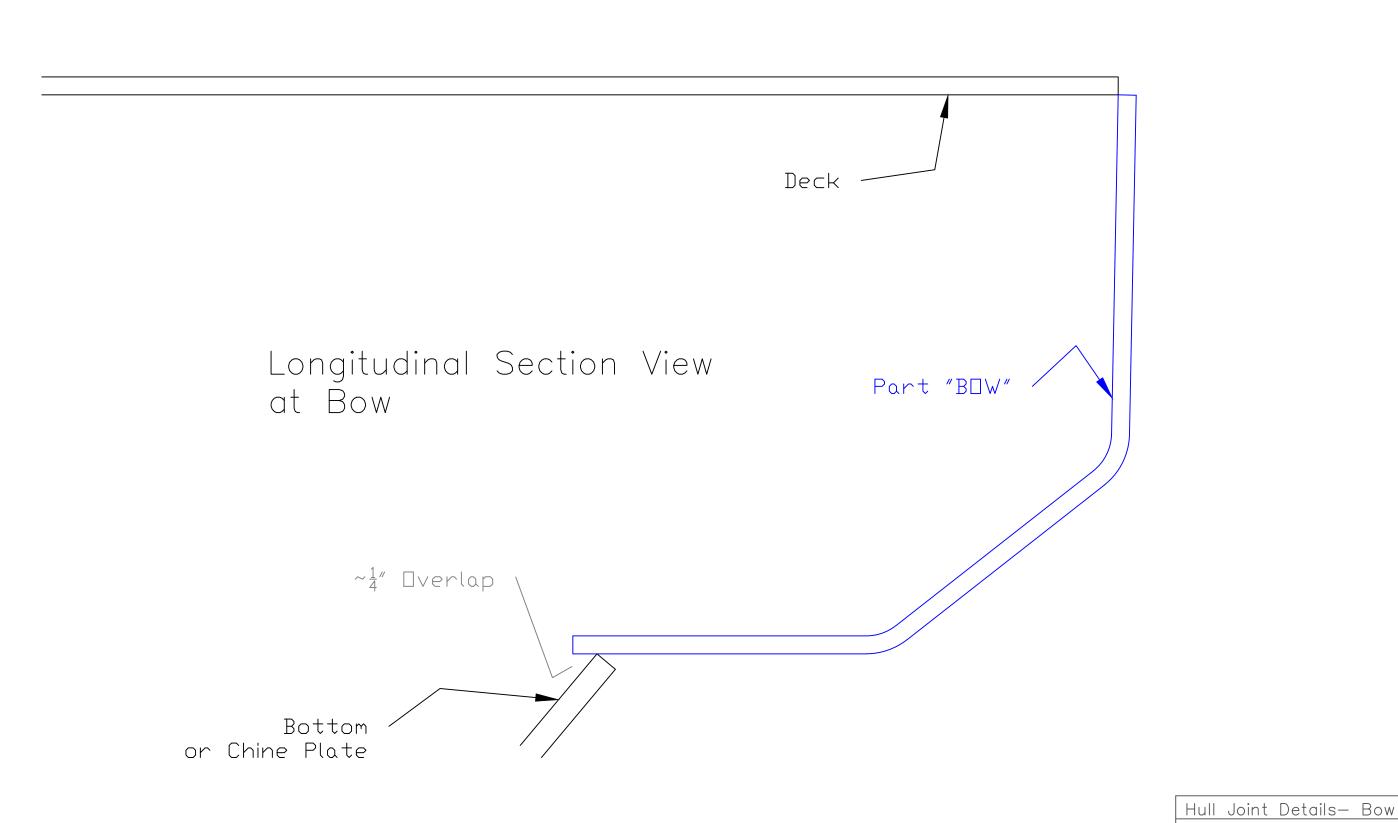






Console— Stbd, Helm



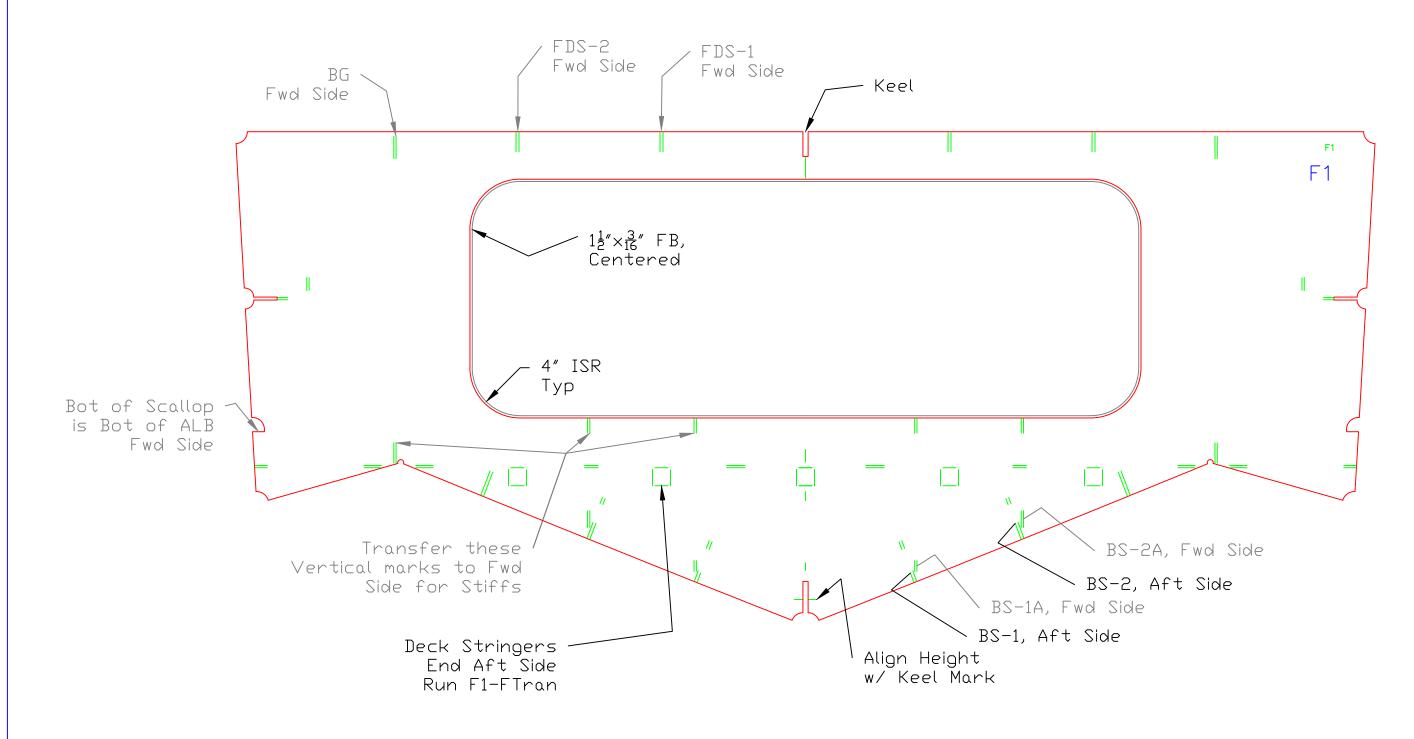


25.9'x8.5' Cathedral

SCALE PES/DWN WAL 9/29/21

Response Marine, Inc.

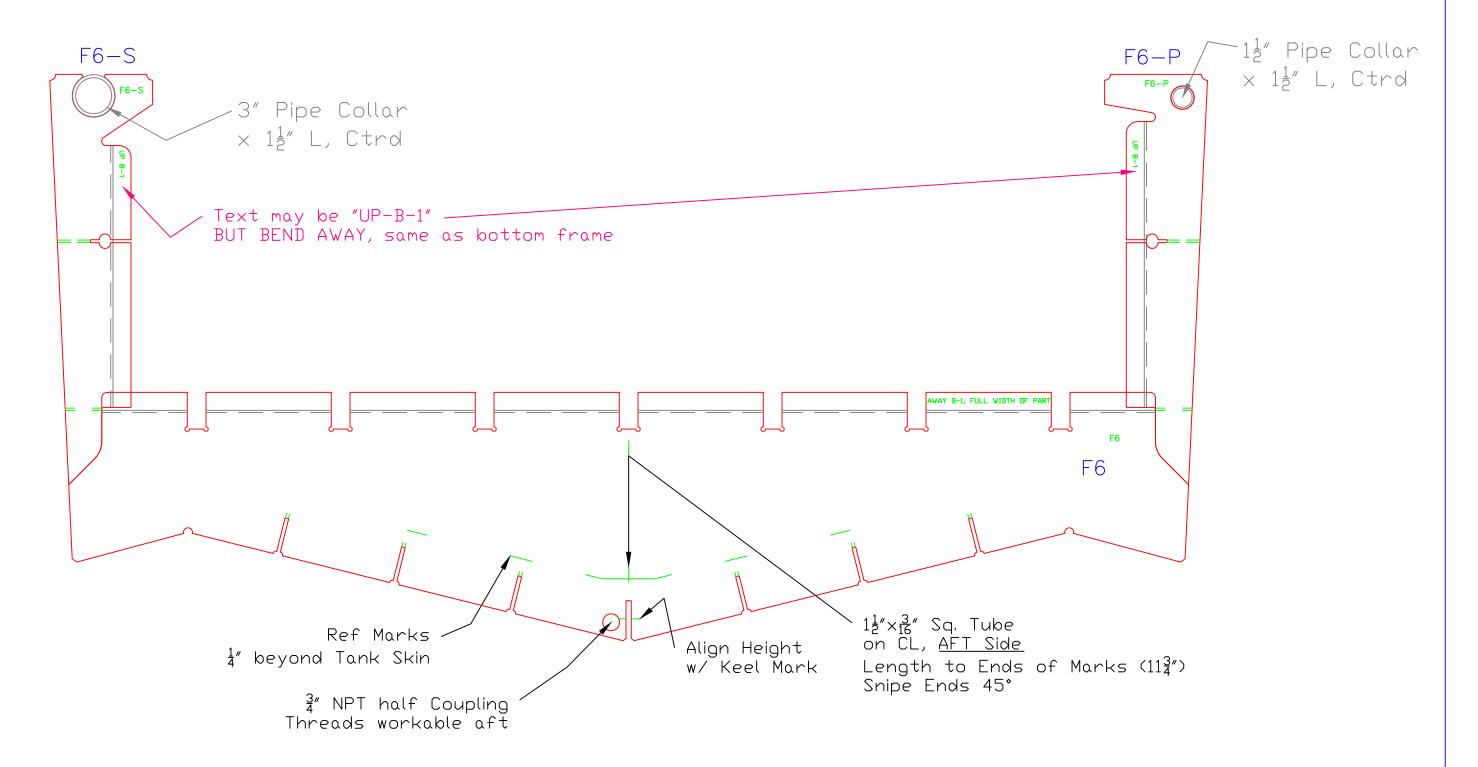
# Marks Aft



	Frame 1			
25.9'x8.5' Cathedral				
	DATE			
	1 1/2"=1'	WAL	9/29/21	
		SHEET		
	Response M			
	Newburyport MA w	DWG NO.		

Parts shown before Forming

Flanges Aft Marks FWD



			Frame 6, WTBHD		
			25.9'x8.5	5' Cathedr	-al
			SCALE 1 1/2"=1'	DES/DWN WAL	9/29/21
REV. DESCRIPTION		<b>Response Marine, Inc.</b> Rev 12/13/21			
R1, 12/13	3/21— Flange Direction note			ww.responsemarine.com	DWG NO. 620-F6 r1