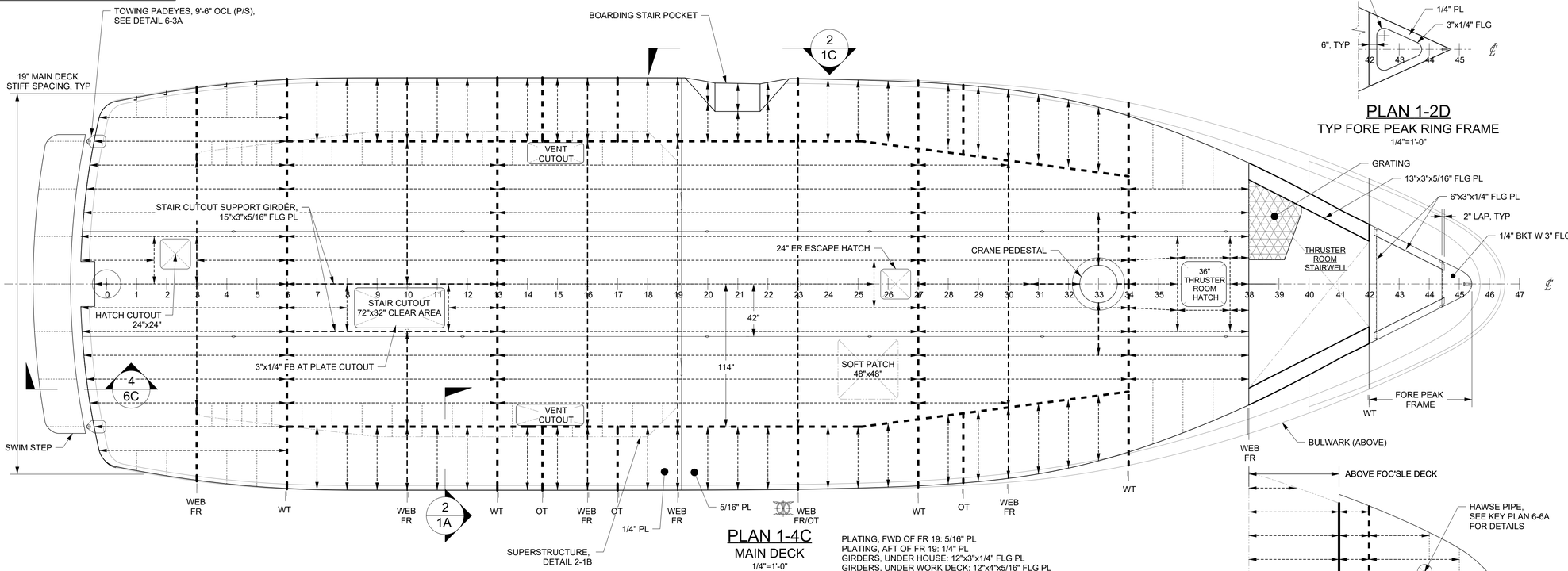
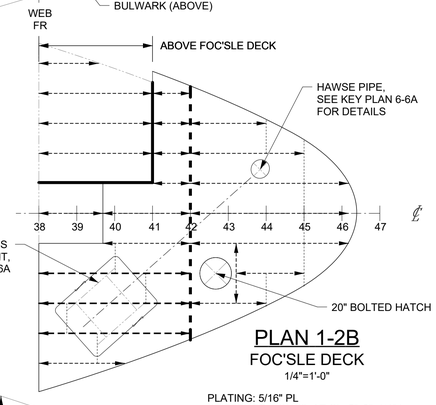
CONFIDENTIAL AND PROPRIETARY PROPERTY OF
ELLIOTT BAY DESIGN GROUP, LLC
MAY NOT BE USED FOR CONSTRUCTION OR PROVIDED TO
ANY THIRD PARTIES WITHOUT PRIOR WRITTEN CONSENT.
© 2026 ELLIOTT BAY DESIGN GROUP.



PLAN 1-4C
MAIN DECK
1/4"=1'-0"

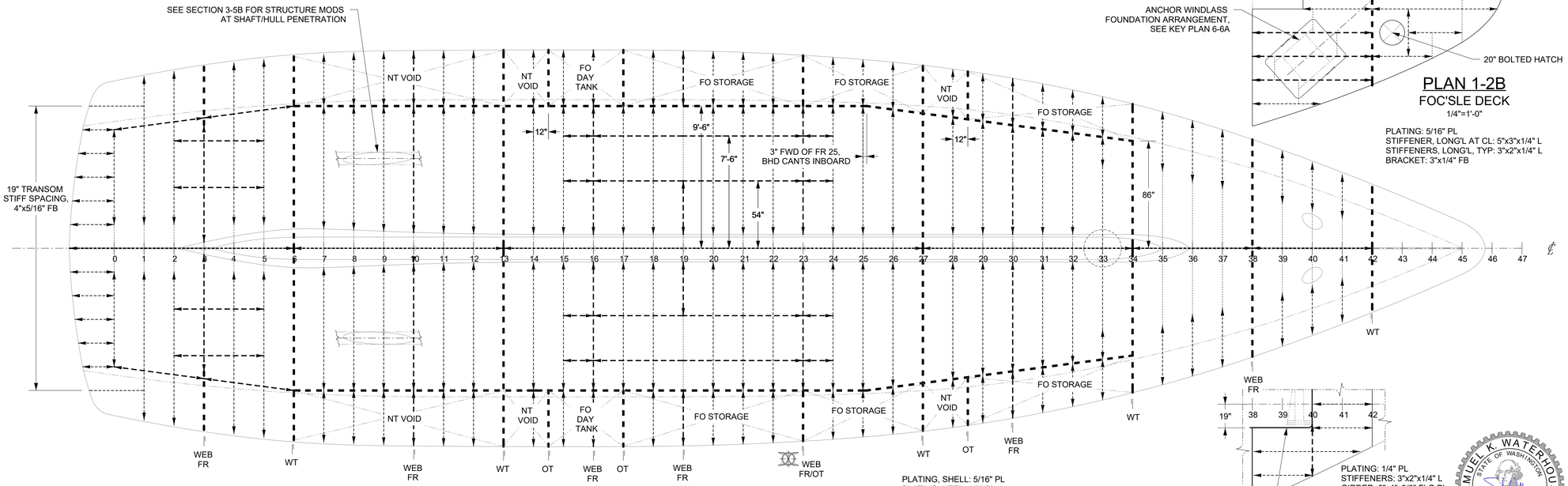
PLATING, FWD OF FR 19: 5/16" PL
PLATING, AFT OF FR 19: 1/4" PL
GIRDERS, UNDER HOUSE: 12"x3"x1/4" FLG PL
GIRDERS, UNDER WORK DECK: 12"x4"x5/16" FLG PL
STIFFENERS, TRANSVER IWO TANKS: 5"x1/4" DIAPHRAM PL W/ 3"x1/4" FLG
STIFFENERS, LONG'L: 5"x3"x1/4" L
STIFFENERS, LONG'L, AFT OF SS FRONT: 3"x2"x1/4" L

PLAN 1-2D
TYP FORE PEAK RING FRAME
1/4"=1'-0"



PLAN 1-2B
FOC'SLE DECK
1/4"=1'-0"

PLATING: 5/16" PL
STIFFENER, LONG'L AT CL: 5"x3"x1/4" L
STIFFENERS, LONG'L, TYP: 3"x2"x1/4" L
BRACKET: 3"x1/4" FB



PLAN 1-4A
BOTTOM SHELL, REFLECTED VIEW
1/4"=1'-0"

PLATING, SHELL: 5/16" PL
PLATING, KEEL: 1/2" PL
GIRDERS, CVK: 30"x7/16" WEB w/ 6"x3/4" FLG
GIRDERS, CVK, TRANSOM TO FR 6: 16"x3/8" WEB w/ 6"x1/2" FLG
GIRDERS, TRANSVERSE: 16"x3"x5/16" FLG PL
GIRDERS, LONG'L, TRANSOM TO FR 6: 14"x3"x5/16" FLG PL
STIFFENERS: 5"x3"x1/4" FLG PL
STIFFENERS, IWO TANKS: 5"x1/4" DIAPHRAM PL W/ 3"x1/4" FLG

PLAN 1-2A
'TWEEN DECK
9'-6" ABL
1/4"=1'-0"

PLATING: 1/4" PL
STIFFENERS: 3"x2"x1/4" L
GIRDER: 6"x4"x3/8" FLG PL

SAMUEL K. WATERHOUSE
STATE OF WASHINGTON
55707
REGISTERED PROFESSIONAL ENGINEER
10/5/2026

REVISION HISTORY

REV	ZONE	DESCRIPTION	DWN	DATE	APVD

GENERAL NOTES

GENERAL
1. THIS DRAWING PROVIDES CONTRACT GUIDANCE FOR THE CONSTRUCTION OF A NEW 91'-7" x 27'-6" x 12'-2" PATROL VESSEL FOR THE ALASKA WILDLIFE TROOPERS ALONG WITH THE CONTRACT SPECIFICATION (REF 1). THIS DRAWING SHALL NOT BE USED FOR THE CONSTRUCTION OF ADDITIONAL VESSELS.

REGULATORY STANDARD
2. WHILE THE VESSEL IS UNINSPECTED BY USCG, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T. STEEL STRUCTURE SHALL BE CONSTRUCTED TO ABS RULES FOR THE CONSTRUCTION AND CLASSIFICATION OF STEEL VESSELS UNDER 61 METERS (200 FEET) IN LENGTH. ALUMINUM STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5 OF THE ABS RULES FOR MATERIALS AND WELDING (PART 2).

DETAIL
3. FRAME SPACING IS 24" UNLESS OTHERWISE NOTED.

4. ALL PLATE STAIR TREADS SHALL HAVE ALUMINUM NOSINGS WITH ANTI-SLIP PVC GRIT INSETS. NOSINGS SHALL BE REPLACEABLE WITHOUT DAMAGING THE TREADS. THE NOSING SHALL BE SAFETY YELLOW.

5. STAIRS TO COMPLY WITH USCG REQUIREMENTS.

6. FOR MOLD LINE CONVENTION, SEE REF 3.

7. MAIN DECK LOADING LIMITS
- MAXIMUM DISTRIBUITED LOAD: 540 LB/FT^2
- MAXIMUM POINT LOAD: 6,000 LB
- POINT LOADS MAY BE NO CLOSER THAN 8 FT LONGITUDINALLY OR 3 FT TRANSVERSELY FROM OTHER HEAVEY DECK LOADS.

8. NOTIONAL MAIN ENGINE FOUNDATION PROVIDED. SHIPYARD TO VERIFY ARRANGEMENT TO SUT MANUFACTURER'S REQUIREMENTS AND FINAL MOUNTING ARRANGEMENT.

9. WHERE LAPS ARE USED TO TRANSITION STRUCTURAL MEMBERS OVERLAP DISTANCE SHALL BE MINIMUM THE SUM OF THE THICKNESSES OF THE MEMBERS BEING JOINED PLUS 1". SEE DETAIL 2-6B.

10. ALL STAINLESS FASTENERS SHALL BE 316. STAINLESS FASTENERS SHALL UTILIZE ANTI-SEIZE ON FAYING SURFACE TO AVOID GALLING.

SHEET INDEX

1	MAIN DECK AND BOTTOM SHELL PLANS
2	PROFILES (SIDE, CL, 9'-6" OCL) AND DETAILS
3	TYPICAL FRAMES AND BULKHEADS
4	STAIRS AND LADDERS
5	WEAR DECK DETAILS
6	ENGINE AND WINCH FOUNDATIONS, TOWING PADEYES, CLEAT MOUNTING

REFERENCES

1. 24065-200-832-0	SPECIFICATION
2. 24065-200-101-1	PROFILES AND ARRANGEMENTS
3. 24065-200-150-0	DECK HOUSE STRUCTURE

LINETYPES LEGEND

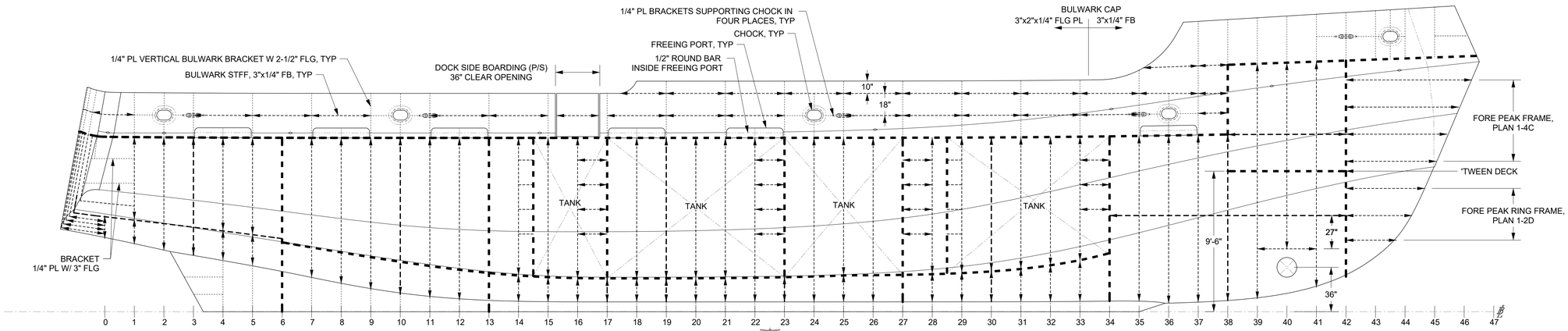
- BULKHEAD FARSIDE
- BULKHEAD NEARSIDE
- GIRDER FARSIDE
- GIRDER NEARSIDE
- ORDINARY STIFF FS
- ORDINARY STIFF NS
- BRACKET FARSIDE
- PLATE SEAM
- KNUCKLE

ELLIOTT BAY DESIGN GROUP

CLIENT	ALASKA WILDLIFE TROOPERS ANCHORAGE, AK	DWN	MWR
		CHK	---
		APVD	SKW
PROJECT	Large Class Enforcement Vessel	DATE	10/05/2026
TITLE	HULL STRUCTURE		
SIZE	D	DWG NO.	24065-200-120-0
REV	-	SHEET	1 OF 6
		SCALE	1/4"=1'-0"

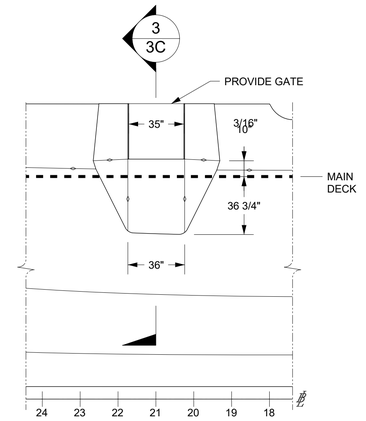
10/5/2026 1:11:38

CONFIDENTIAL AND PROPRIETARY PROPERTY OF
ELLIOTT BAY DESIGN GROUP, LLC
MAY NOT BE USED FOR CONSTRUCTION OR PROVIDED TO
ANY THIRD PARTIES WITHOUT PRIOR WRITTEN CONSENT.
© 2026 ELLIOTT BAY DESIGN GROUP.

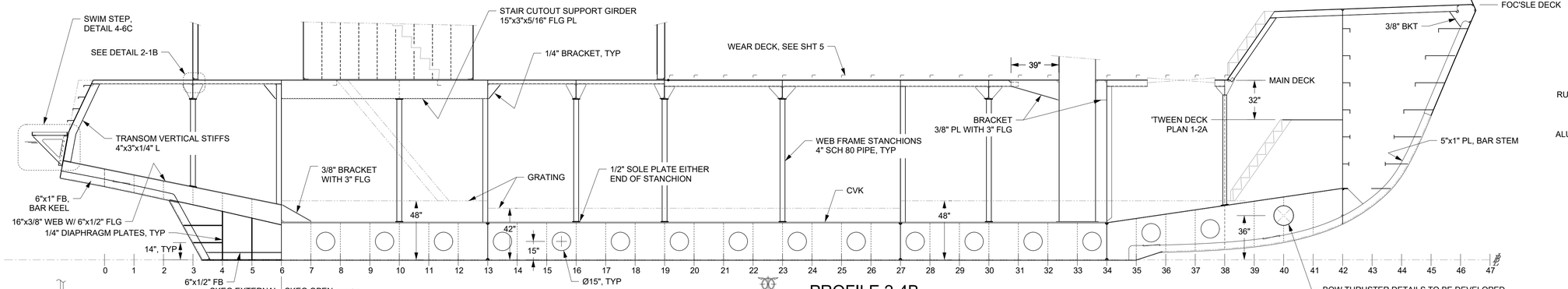


PROFILE 2-4C
HULL SIDE
STBD SHOWN, PORT SIM U.N.O.

PLATING: 5/16" PL
GIRDER, SIDE STRINGER FR 34-42: 13"x3"x5/16" FLG PL
STIFFENERS: 5"x3"x1/4" FLG PL
STIFFENERS, IWO TANKS: 5"x1/4" DIAPHRAM PL W/ 3"x1/4" FLG

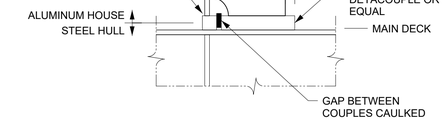


PROFILE 2-1C
BOARDING POCKET
PORT SIDE, LKG TO CL

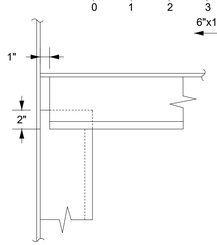


PROFILE 2-4B
INBOARD PROFILE AT CENTERLINE
STBD LKG TO CL

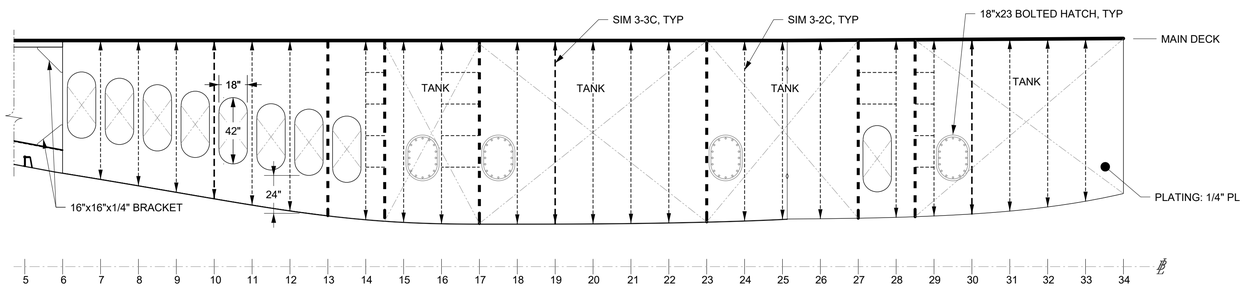
BOW THRUSTER DETAILS TO BE DEVELOPED BY SHIPYARD PER MANUFACTURER'S INSTALLATION REQUIREMENTS



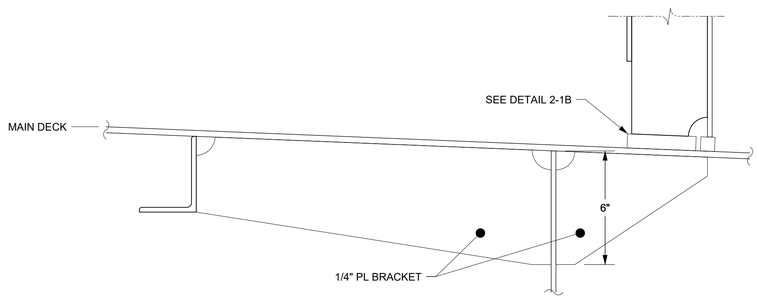
DETAIL 2-1B
DETACOUPLE OR EQUAL
CONNECTION SHOWN AT FR 3 CL,
HOUSE FRONT SIM, HOUSE SIDE ON FRAME SIM
3"=1'-0"



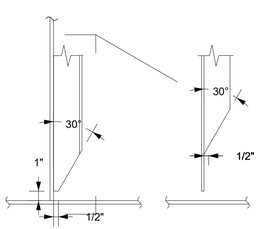
DETAIL 2-6B
STIFF END LAP DETAIL
1-1/2"=1'-0"



PROFILE 2-4A
INBOARD PROFILE, 9'-6" OCL
PORT SHOWN, STBD SIM
CL LKG TO PORT



SECTION 2-1A
DETACOUPLE OR EQUAL
CONNECTION SHOWN AT EVERY
HALF FRAME, HOUSE SIDES ONLY
STBD SIDE SHOWN, LKG FWD; PORT SIM & OPP
3"=1'-0"



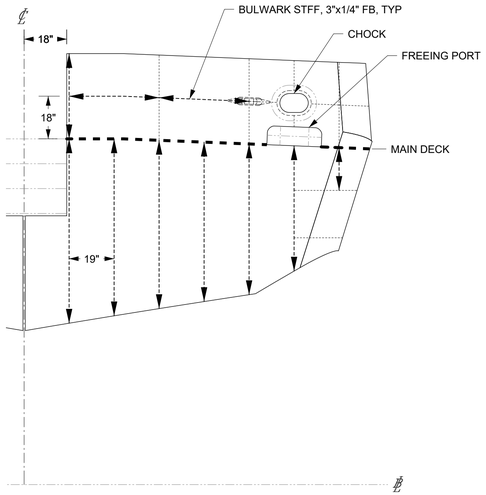
DETAIL 2-6A
STIFF END SNIPE DETAIL
1-1/2"=1'-0"

SAMUEL K. WATERHOUSE
STATE OF WASHINGTON
55707
REGISTERED PROFESSIONAL ENGINEER
10/5/2026

SIZE	DWG NO.	REV	SHEET	OF
D	24065-200-120-0	-	2	6
		SCALE	AS NOTED	

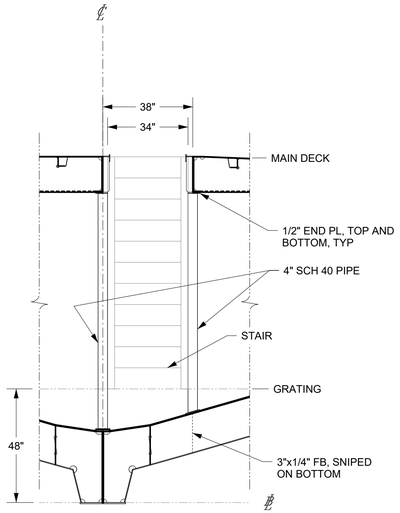
10/5/2026 1:11:39

CONFIDENTIAL AND PROPRIETARY PROPERTY OF
ELLIOTT BAY DESIGN GROUP, LLC
MAY NOT BE USED FOR CONSTRUCTION OR PROVIDED TO
ANY THIRD PARTIES WITHOUT PRIOR WRITTEN CONSENT.
© 2026 ELLIOTT BAY DESIGN GROUP.

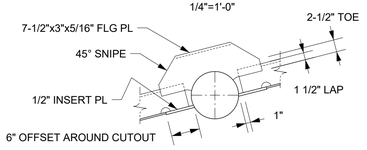


SECTION 3-6C
TRANSOM
LKG FWD AT TRANSOM
STBD SHOWN, PORT SIM & OPP
1/4"=1'-0"

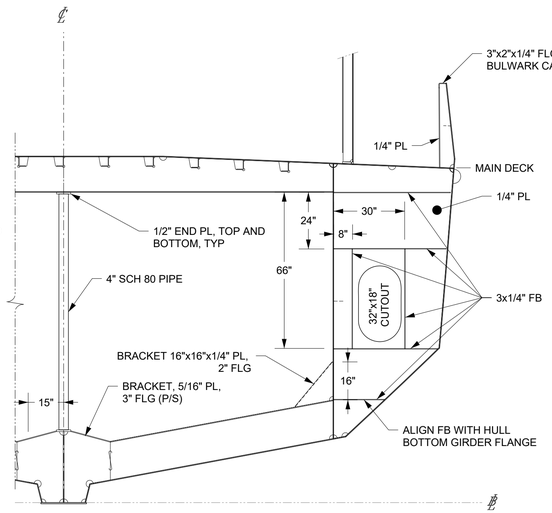
PLATING: 5/16" PL
STIFFENERS: 4"x3"x1/4" L



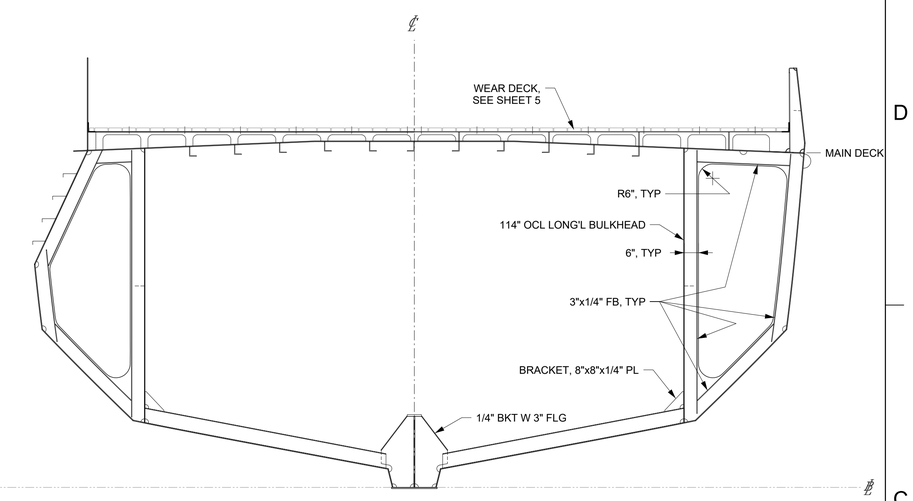
SECTION 3-5C
GIRDER MODIFCATION FOR STAIR
LKG FWD AT FR 10
1/4"=1'-0"



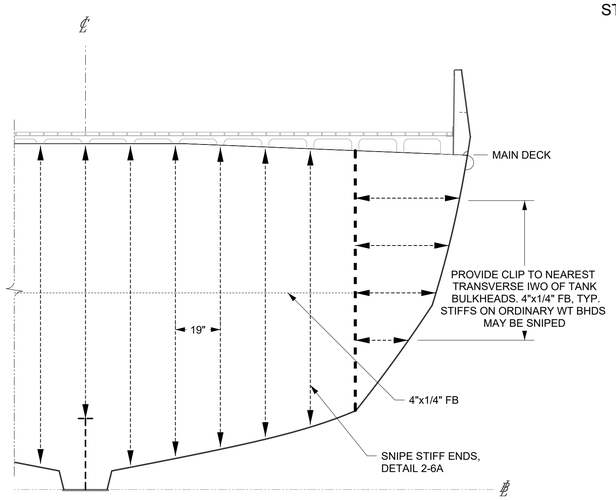
SECTION 3-5B
STRUCTURE MODIFCATIONS AT
HULL / SHAFT PENETRATION
LKG FWD AT FR 9
1/2"=1'-0"



SECTION 3-3C
TYPICAL WEB FRAME
LKG FWD AT FR 19
FR 10, 16, 23, 30 SIM
1/4"=1'-0"

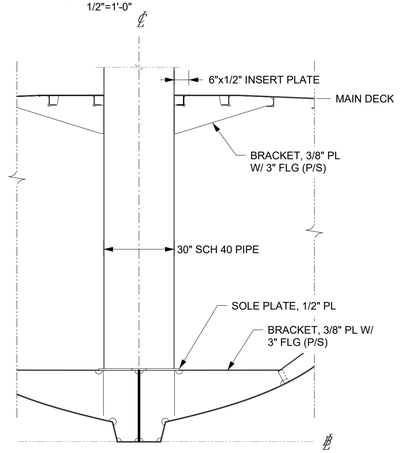


SECTION 3-2C
TYPICAL FRAME
LKG FWD AT FR 21
STBD IS TYPICAL
FRAMES 6 - 33 SIM UNO
1/4"=1'-0"

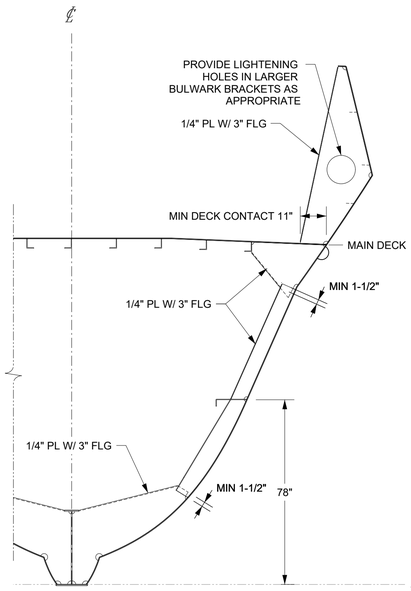


SECTION 3-6A
TYPICAL WT BULKHEAD
LKG FWD AT FR 27
FR 6, 13, 34 SIM
1/4"=1'-0"

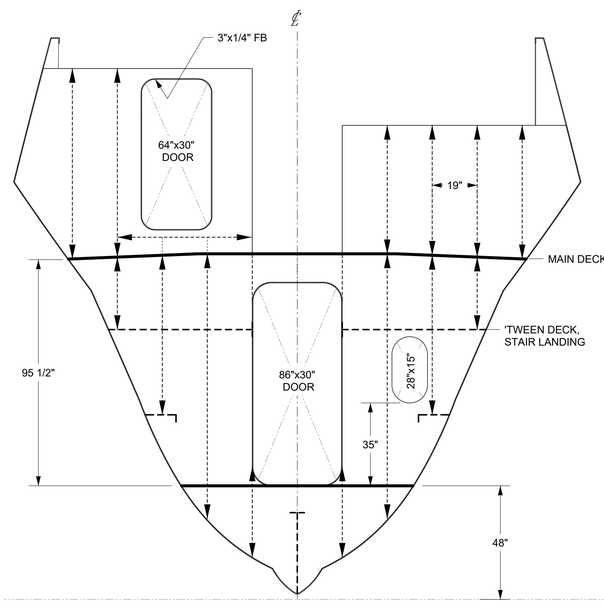
PLATING: 1/4" PL
STIFFENERS: 4"x3"x1/4" L



SECTION 3-5A
CRANE FOUNDATION
LKG FWD AT FR 33
1/4"=1'-0"

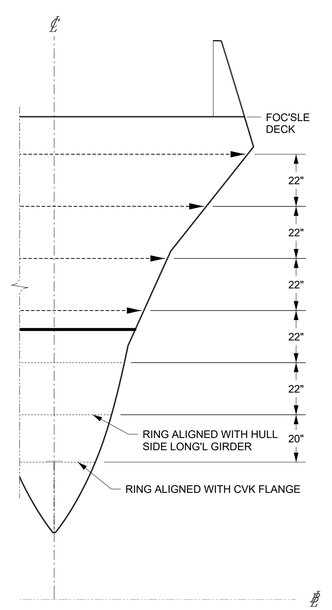


SECTION 3-3A
TYPICAL FWD FRAME
LKG FWD AT FR 37
FR 35, 36, 39, 41 SIM
1/4"=1'-0"



PLATING: 1/4" PL
STIFFENERS: 4"x3"x1/4" L

SECTION 3-2A
BULKHEAD MODIFIED FOR STAIR
LKG FWD AT FR 38
1/4"=1'-0"



SECTION 3-1A
COLLLISION BHD, FR 42
LKG FWD
1/4"=1'-0"

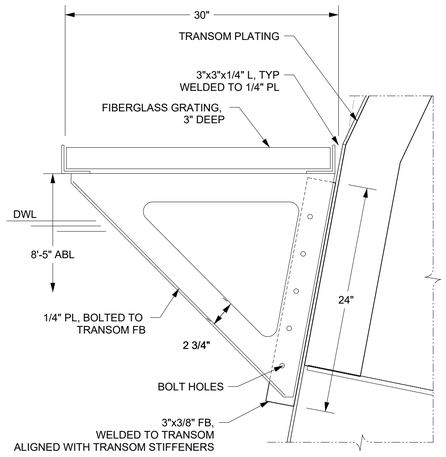
PLATING: 5/16" PL
STIFFENERS, UPPER BREASTHOOK: 5"x3"x1/4" L
STIFFENERS, LOWER COLLISION BKHD: 4"x1/4" FB

SAMUEL K. WATERHOUSE
STATE OF WASHINGTON
55707
REGISTERED PROFESSIONAL ENGINEER
10/5/2026

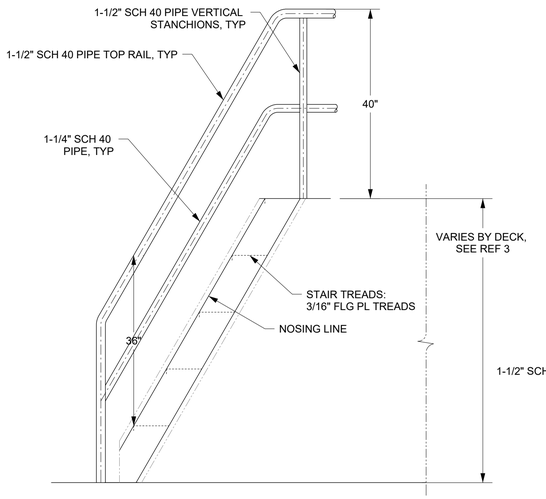
SIZE	DWG NO.	REV	SHEET
D	24065-200-120-0	-	3 OF 6
		SCALE	AS NOTED

10/5/2026 1:11:40

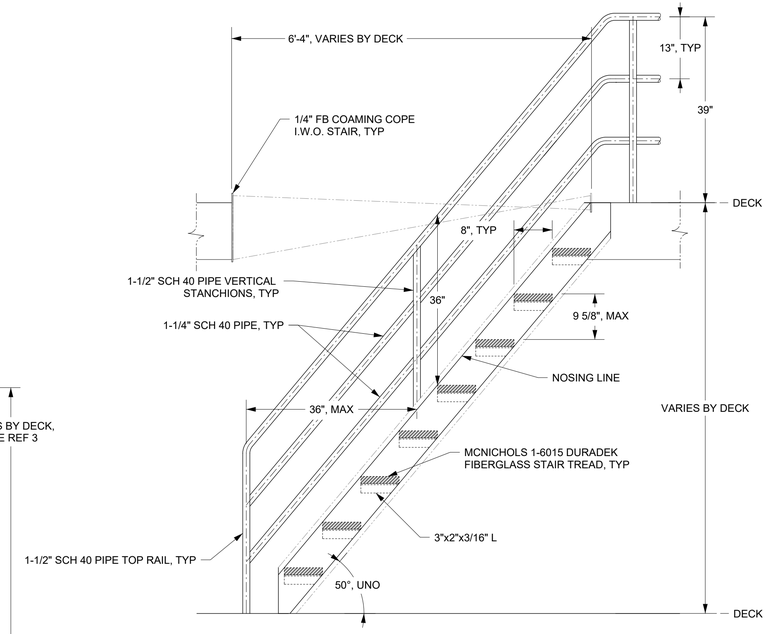
CONFIDENTIAL AND PROPRIETARY PROPERTY OF
ELLIOTT BAY DESIGN GROUP, LLC
MAY NOT BE USED FOR CONSTRUCTION OR PROVIDED TO
ANY THIRD PARTIES WITHOUT PRIOR WRITTEN CONSENT.
© 2026 ELLIOTT BAY DESIGN GROUP.



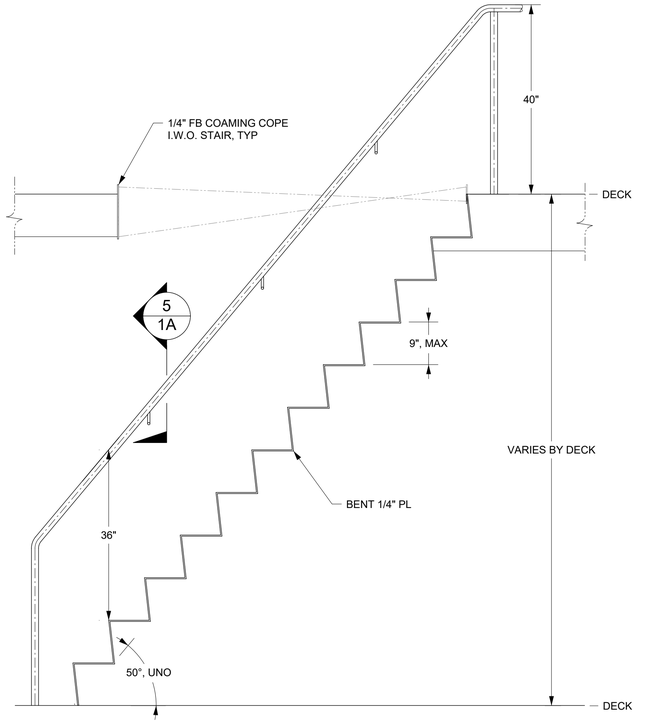
PROFILE 4-6C
NOTIONAL SWIM STEP
SY TO DESIGN SWIM STEP STRUCTURE
TO OWNER SATISFACTION
1-1/2"=1'-0"



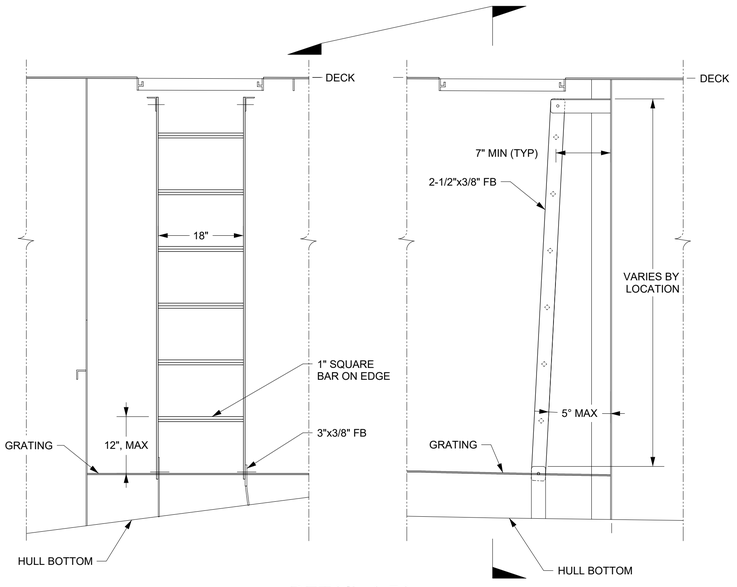
DETAIL 4-5C
ALL FOC'SLE STAIRS
STAIR TREADS TO BE SPACED EVENLY BETWEEN LANDINGS
SEE SECTION 3-3A & REF 3 FOR TREAD WIDTH AND ANGLE
3/8"=1'-0"



DETAIL 4-3C
INTERIOR MACHINERY STAIRS
STAIR TREADS TO BE SPACED EVENLY BETWEEN LANDINGS
SEE REF 3 FOR TREAD WIDTH AND ANGLE
3/8"=1'-0"

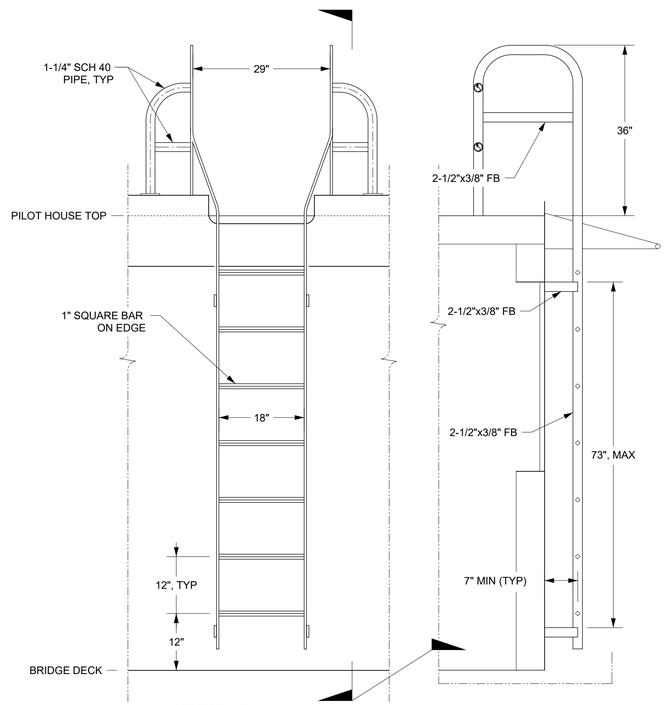


DETAIL 4-1C
TYP INTERIOR INTEGRAL STAIRS
STAIR TREADS TO BE SPACED EVENLY BETWEEN LANDINGS (GN 5)
SEE REF 3 FOR TREAD WIDTH AND STAIR ANGLE
3/8"=1'-0"

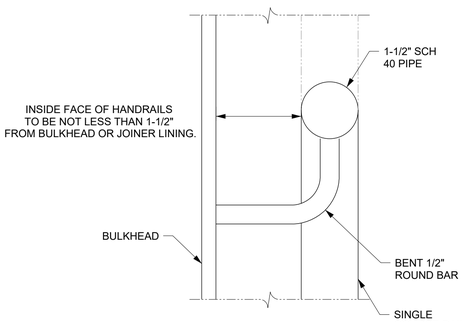


DETAIL 4-5A
INTERIOR VERTICAL LADDER
HOLD
3/8"=1'-0"

FRAME/BULKHEAD



DETAIL 4-4A
PILOT HOUSE TOP VERTICAL LADDER
3/8"=1'-0"



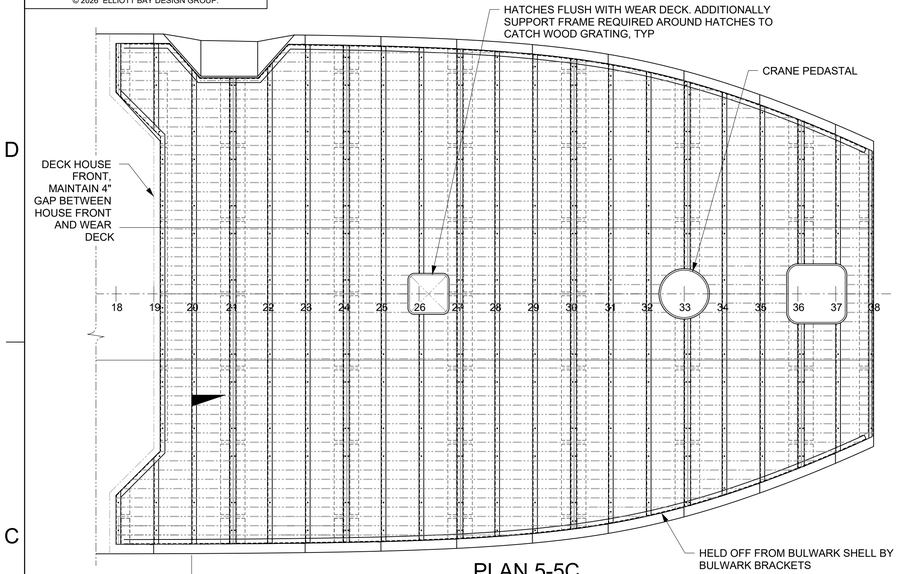
DETAIL 4-1A
TYP RAILING SUPPORT
3"=1'-0"

SAMUEL K. WATERHOUSE
STATE OF WASHINGTON
55707
REGISTERED
PROFESSIONAL ENGINEER
10/5/2026

SIZE	DWG NO.	REV	SHEET 4 OF 6
D	24065-200-120-0	-	SCALE AS NOTED

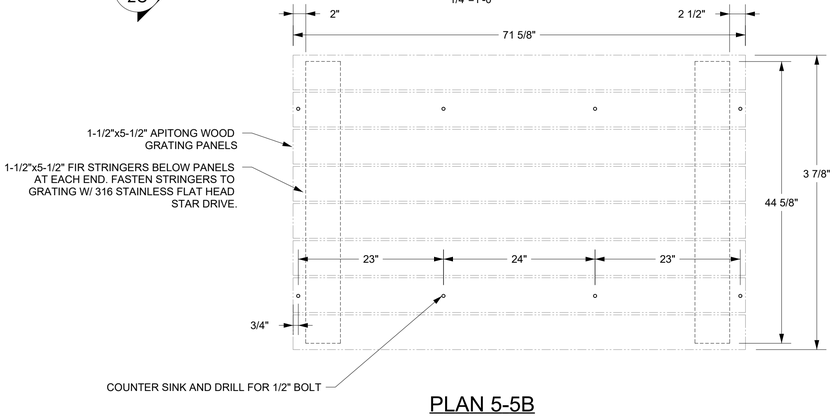
10/5/2026 1:11:41

CONFIDENTIAL AND PROPRIETARY PROPERTY OF
ELLIOTT BAY DESIGN GROUP, LLC
MAY NOT BE USED FOR CONSTRUCTION OR PROVIDED TO
ANY THIRD PARTIES WITHOUT PRIOR WRITTEN CONSENT.
© 2026 ELLIOTT BAY DESIGN GROUP.

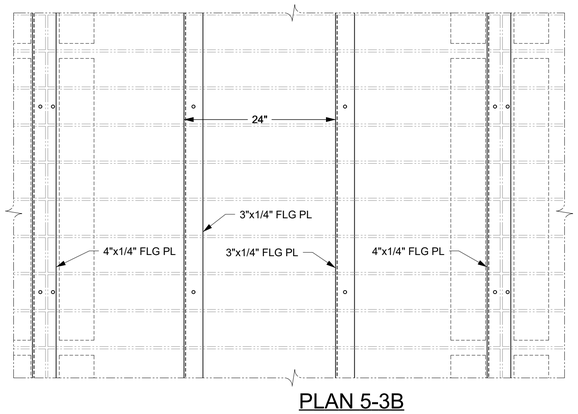


PLAN 5-5C
NOTIONAL WEAR DECK ARRANGEMENT
MAIN DECK
1/4"=1'-0"

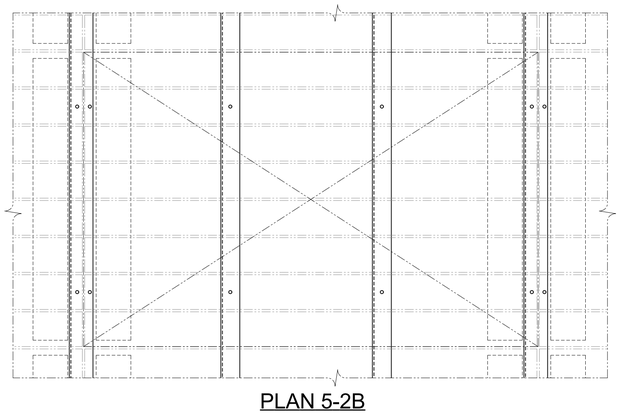
5
2C



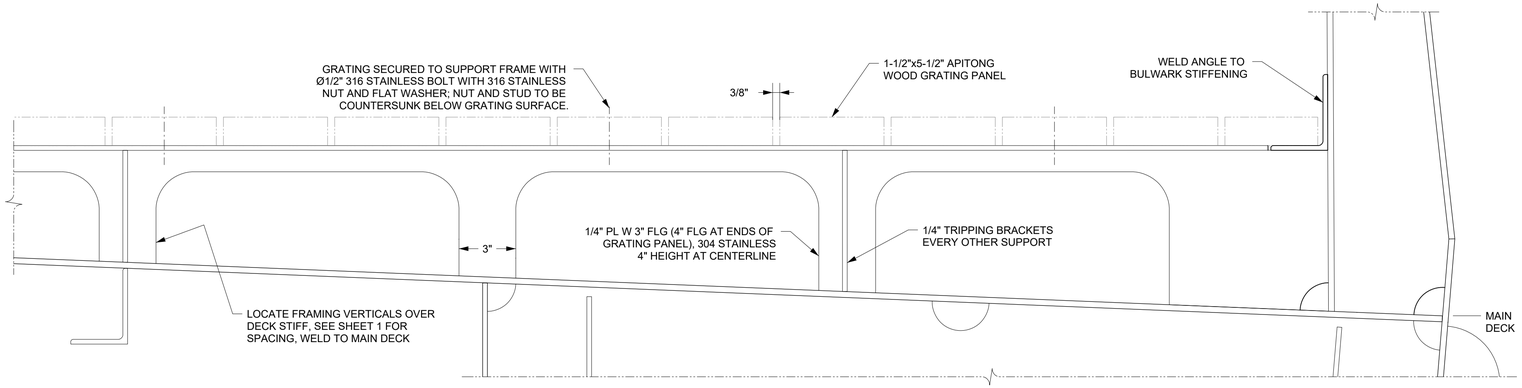
PLAN 5-5B
TYP WOOD GRATING PANEL CONSTRUCTION
1/4"=1'-0"



PLAN 5-3B
TYP SUPPORT FRAMING FOR GRATING PANELS
1/4"=1'-0"



PLAN 5-2B
TYP PANEL INSTALLATION ATOP FRAMING
1/4"=1'-0"



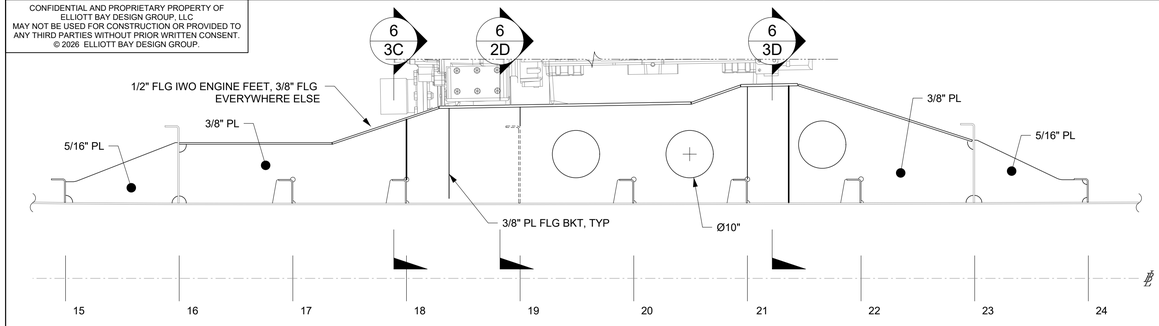
SECTION 5-2C
WEAR DECK ARRANGEMENT
LKG FWD AT FR 21
1/4"=1'-0"

SAMUEL K. WATERHOUSE
STATE OF WASHINGTON
55707
REGISTERED
PROFESSIONAL ENGINEER
10/5/2026

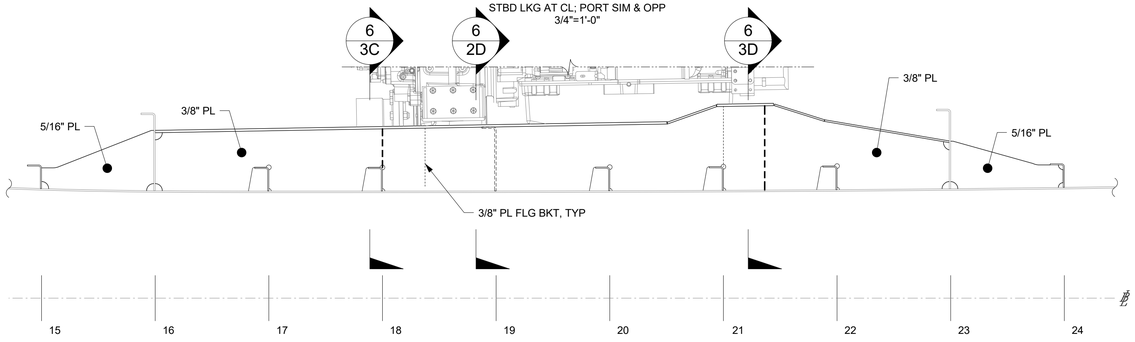
SIZE	DWG NO.	REV	SHEET
D	24065-200-120-0	-	5 OF 6
		SCALE	AS NOTED

10/5/2026 1:11:41

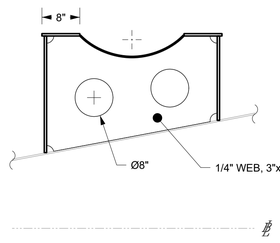
CONFIDENTIAL AND PROPRIETARY PROPERTY OF
ELLIOTT BAY DESIGN GROUP, LLC
MAY NOT BE USED FOR CONSTRUCTION OR PROVIDED TO
ANY THIRD PARTIES WITHOUT PRIOR WRITTEN CONSENT.
© 2026 ELLIOTT BAY DESIGN GROUP.



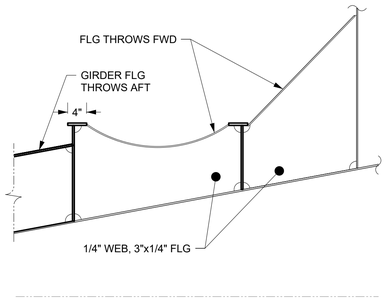
PROFILE 6-5D
INBOARD ENGINE GIRDER
54" OCL
STBD LKG AT CL; PORT SIM & OPP
3/4"=1'-0"



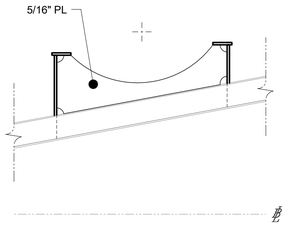
PROFILE 6-5D
OUTBOARD ENGINE GIRDER
7'-6" OCL
STBD LKG AT CL; PORT SIM & OPP
3/4"=1'-0"



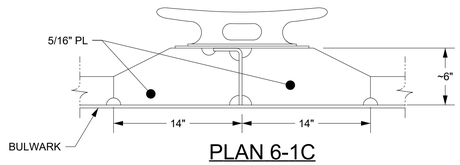
SECTION 6-3D
BRACKET
LKG FWD AT 8.75" FWD OF FR 21
STBD SHOWN, PORT SIM & OPP
3/4"=1'-0"



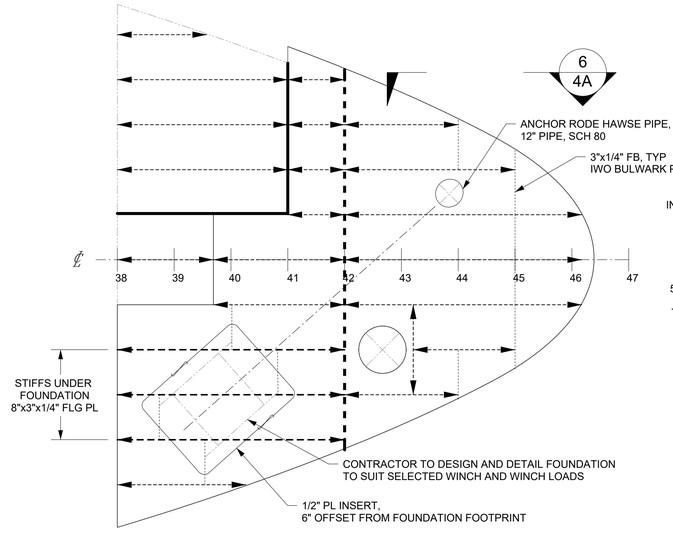
SECTION 6-2D
BRACKET
LKG FWD AT FR 19
STBD SHOWN, PORT SIM & OPP
3/4"=1'-0"



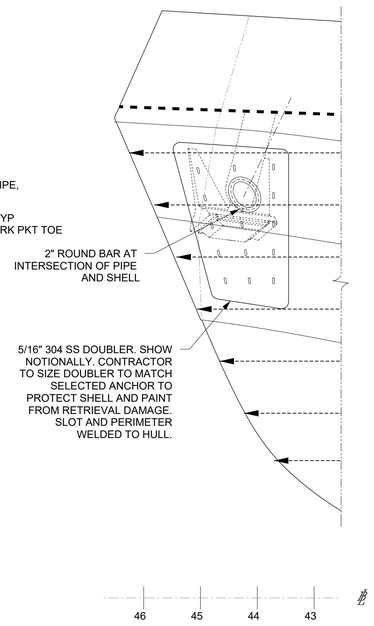
SECTION 6-3C
BRACKET
LKG FWD AT FR 18
STBD SHOWN, PORT SIM & OPP
3/4"=1'-0"



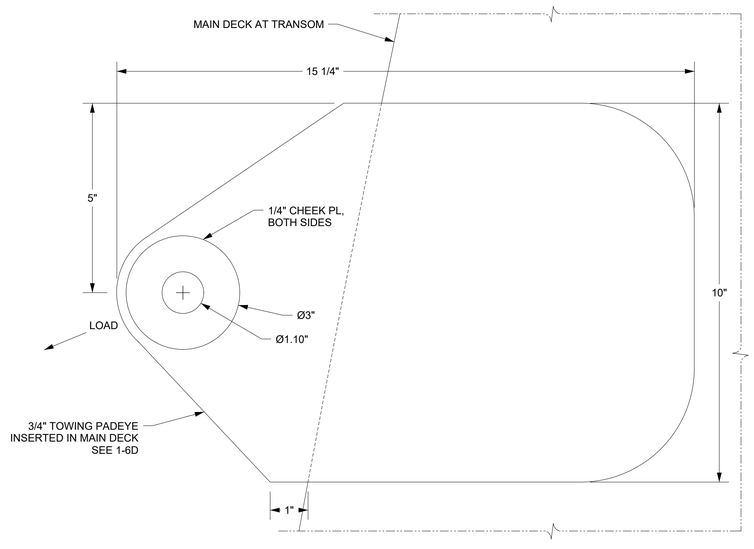
PLAN 6-1C
TYP MOORING CLEAT INSTALL
MOUNTED VERTICALLY ON BULWARK
FRAME NEXT TO CHOCK, SEE PROFILE 2-4C
1-1/2"=1'-0"



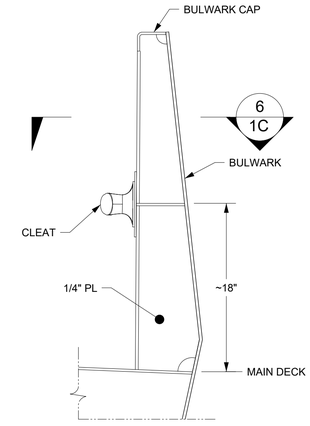
KEY PLAN 6-6A
ANCHOR WINCH ARRANGEMENT & FOUNDATIONS
FOC'SLE DECK
3/8"=1'-0"



PROFILE 6-4A
HAWSE PIPE AT SIDE SHELL
PORT SIDE, LKG TO CL
3/8"=1'-0"



DETAIL 6-3A
TOWING PADEYE
LOCATE AT MAIN DECK AT TRANSOM, 9'-6" OCL
WELD TO TRANSOM PLATE
QTY: 2, PORT SHOWN, STBD OPP
6"=1'-0"



SECTION 6-1A
TYP MOORING CLEAT INSTALL
MOUNTED VERTICALLY ON BULWARK
FRAME NEXT TO CHOCK, SEE PROFILE 2-4C
1-1/2"=1'-0"

SAMUEL K. WATERHOUSE
STATE OF WASHINGTON
55707
REGISTERED
PROFESSIONAL ENGINEER
10/5/2026

SIZE	DWG NO.	REV	SHEET 6 OF 6
D	24065-200-120-0	-	SCALE AS NOTED

10/5/2026 1:11:43