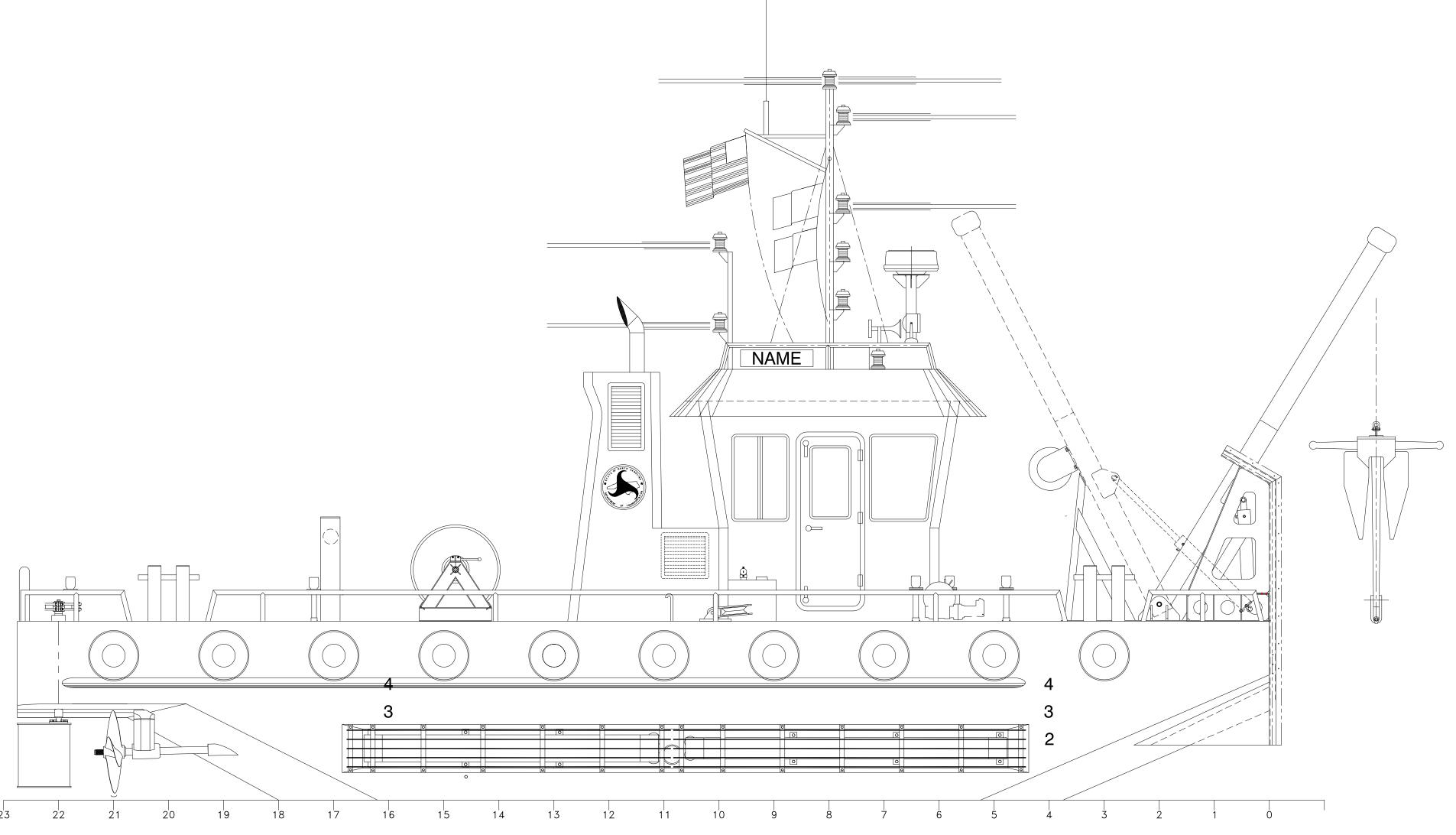


SERVICE	SIZE	PIPE	COMPONENTS			VALVES		BOLTING		DEMARKS	
			TAKEDOWN JOINTS	FITTINGS	FLEX CONNECT	GASKETS	BODY	TRIM	BOLTS/STU	DS NUTS/WASHERS	- REMARKS
VENTS FILLS, AND SOUNDING TUBES MAWP: 100 PSIG MAWT: 120°F	ALL	CARBON STEEL, SCH 80, SEAMLESS, ASTM A53 OR ASTM A106, GRADE B, ANSI B36.10 (BELOW DECK) S. STEEL, SCH 80, SEAMLESS, ASTM A312 GR 304/304L (ABV DECK)	FLANGE SLIP ON, CARBON STEEL, ASTM A105, ANSI B16.5, 150# (BELOW DECK) SLIP ON, S. STEEL, ASTM A182 GR 304/304L, ANSI B16.5, 150# (ABOVE DECK)	SOCKET WELD CARBON STEEL, ASTM A105 OR ASTM A234 GR WPB, ANSI B16.11 (BELOW DECK) SOCKET WELD S. STEEL, ASTM A351 GR 304/304L, ANSI B16.11 (ABOVE DECK)		GARLOCK IFG 5500	BALL THREADED, SW, OR FLANGED STAINLESS STEEL, ASTM A351 CF8M	S. STEEL BAI	CARBON STEEL LASTM A307 GR B ANSI B18.2.1	HEX-HEAD CARBON STEEL ASTM A563 GR A ANSI B18.2.2	



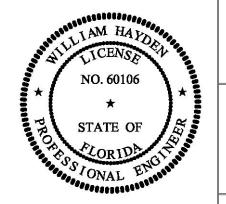
<u>PROFILE</u>

- GENERAL NOTES -DESCRIPTION DESCRIPTION MATERIAL AND WORKMANSHIP SHALL CONFORM TO U.S. COAST GUARD REQUIREMENTS FOR SUBCHAPTER M VESSELS D. TANK AND VOID VENT TERMINALS SHALL BE WINTEB WIN2000 HIAS OR EQUAL. THE FUEL OIL, WASTE OIL, & OILY WATER TANKS SHALL BE FURNISHED WITH SS FLAME SCREENS.

EACH VENT PIPE SHALL BE SLOPED CONTINUOUSLY TO PROVIDE EFFECTIVE DRAINAGE BACK TO THE TANK. THIS DRAWING IS DIAGRAMMATIC AND DOES NOT REPRESENT A COMPLETE DETAILED DESIGN. EQUIPMENT LAYOUT IN A GIVEN AREA IS APPROXIMATE. THE CONTRACTOR SHALL DEVELOP A DETAILED DESIGN THAT PROVIDES A FULLY FUNCTIONAL ARRANGEMENT SUITABLED 1 WHERE PIPING PENETRATES TANK BOUNDARIES, BULKHEADS OR DECKS, SEE DETAIL 3-1A OR 3-2A.

PROVIDE 14" HIGH SPILL CONTAINMENTS SURROUNDING THE WASTE OIL AND OILY WATER VENTS. EACH CONTAINMENT SHALL BE FOR INSTALLATION, TAKING INTO ACCOUNT ALL NECESSARY SYSTEM INTERFACES AN AND INTERFERENCES. DIMENSIONS SHALL BE. VERIFIED FROM THE SHIP AND MANUFACTURERS' CERTIFIED DRAWINGS AS APPROPRIATE PIPING SHALL BE RUN AS DIRECTLY AS PRACTICABLE WITH A MINIMUM NUMBER OF BENDS AND FITTINGS AND WITH SUFFICIENT TAKE FITTED WITH A 1" SS DRAIN PLUG NEAR THE BOTTOM. DOWN JOINTS TO PROVIDE FOR REMOVAL AND INSPECTION. 4. AVOID POCKETS IN THE PIPE LINES. BOSSES AND VALVES OR SCREWED PLUGS SHALL BE FITTED TO ENABLE COMPLETE DRAINING OF PIPES WHERE POCKETS DO OCCUR.

PIPING SHALL BE ADEQUATELY SUPPORTED BY HANGERS IN ACCORDANCE WITH ASTM F708. HANGERS SHALL BE ATTACHED TO THE PIPE WITH BOLTED CLAMPS AND WELDED TO THE BASIC SHIP STRUCTURE. HANGERS SHALL NOT BE ATTACHED BY WELDING DIRECTLY 6. SOUNDING TUBES SHALL BE AS VERTICAL AS PRACTICAL AND SHALL TERMINATE AS CLOSE AS POSSIBLE TO THE DEEPEST POINT OF SOUNDING TUBES SHALL HAVE FLUSH SOUNDING TUBE CAPS, STAINLESS STEEL COMMERCIAL WELD-IN TYPE (NOT A PIPE COUPLING) WITH A BRONZE PLUG. TANK IDENTIFICATION SHALL BE ENGRAVED IN THE TUBE SOCKETS AND CAPS. 8. SOUNDING TUBE TERMINALS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS, GENERALLY AS SHOWN IN PLAN, 3-1B & 3-4C.
9. FUEL TANKS SHALL BE FITTED WITH HIGH LEVEL AND LOW LEVEL ALARMS AND CONTINUOUS LEVEL TRANSDUCERS PER REFS 1 . SENSORS SHALL BE INTERFACED WITH THE SHIP'S ALARM AND MONITORING SYSTEM.



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ANSI-D (24"x36")

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