





Unless specifically noted otherwise, penetration welds.

Welding shall develop the full streng Welding electrodes shall be minimu

2. WELD PROCEDURES AND P

Prior to completing any welding, Con procedures to the Owner for approv based on ABS Rules for Material W Weld procedures shall clearly descr geometry, fit-up gap, edge preparat number of passes, etc.

## 3. WELDER CERTIFICATION

All welding shall be done by welder issued by ABS or AWS for the appro Contractor shall maintain a copy of State.

## 4. WELD TESTING

Weld testing shall occur as follows:

- a. All pedestal critical welds sha tested, and 100% magnetic p with ABS Guide for Nondestr or similar recognized code. drawing. X-ray testing shall the pedestal in the vessel.
- b. All non-critical welds shall be defects.
- c. After installation and a 125% be 100% visually inspected a tested.

Any defects found during weld testi and re-tested. Contractor shall subr Owner for approval.

		Materiall	List
ITEM	COMPONENT	MATERIAL	SIZE
1	PEDASTAL TUBE	A572 GRADE 50 STEEL	<sup>3</sup> ⁄ <sub>4</sub> " PLATE
2	CRANE BOLTING FLANGE	A572 GRADE 50 STEEL	1½" PLATE
3	BOLTING FLANGE BRACKETS	A572 GRADE 50 STEEL	<sup>3</sup> ⁄ <sub>4</sub> " PLATE
4	UPPER ACCESS FLANGE	A572 GRADE 50 STEEL	5" X ½" FB
5	HYDRAULIC ACCESS FLANGE	A572 GRADE 50 STEEL	5" X ½" FB
6	DIAPRAGM PLATE	ASTM A36	<sup>3</sup> ∕8" PL
7	DIAPHRAGM STIFFENER	ASTM A36	4 x 3 x 5⁄ <sub>16</sub> " L
8	INNER & OUTER MAINTENANCE PLATFORM	ASTM A36 STEEL MOLDED FIBERGLASS GRATING (BLACK)	
10	INTERNAL & EXTERNAL LADDER	ASTM A36	

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ABS GUIDE FOR CERTIFICATION OF

LIFTING APPLIANCES 2017

2.5° VESSEL LIST

1° VESSEL TRIM

6 KNOTS WIND SPEED

CARGO AND EQUIPMENT ONLY

(NO PERSONNEL)

8,000 LBS SWL @ 45 FT OUTREACH

PER REFERENCE A)

1.3

1,040,313 FT-LBS

INCLUDES VERTICAL AMPLIFICATION FACTOR

33,400 LBS

INCLUDES VERTICAL

AMPLIFICATION FACTOR

0.31 INCHES

(AT TOP OF PEDESTAL)

1.5

1,287,230 FT-LBS

INCLUDES BOTH VERTICAL

PEDESTAL FACTOR

38,600 LBS

INCLUDES BOTH VERTICAL

AMPLIFICATION FACTOR AND

PEDESTAL FACTOR

AMPLIFICATION FACTOR AND

Design Requirements

APPLICABLE

REGULATIONS

CONDITIONS

VERTICAL

MAXIMUM

2				
Specifications	General Notes			
, all critical welds shall be full	1. The intent of this drawing is to create a fully fabricated, assembled and tested pedestal for prior to installation in the vessel.			
gth of the materials being joined. um E70.	2. DESIGN BASIS			
PREPARATION ontractor shall submit weld val. Weld procedures shall be	<ul> <li>a. The new pedestal in this drawing was designed by Coastwise to meet ABS Rules for Certification of Lifting Appliances 2017. This engineering is based on the crane load capacities in Reference A) and the "Design Requirements" table in this drawing.</li> <li>b. Contractor shall design and provide a crane bolting flange and associated brackets. The notional crane bolting flange and flange bracket details are shown for bidding purposes only. Contractor shall obtain written verification, from crane manufacturer, that the notional crane bolting flange is of acceptable strength and size for the rated crane loads and that the bolt holes match the existing crane turret holes</li> </ul>			
ribe allowable electrode, weld tion, weld type, amperage, gas,				
all certifications for review by the	c. Contractor shall design and provide internal and external maintenance platforms and ladders. Additional design and fabrication requirements are included in the technical specifications.			
	3. CONSTRUCTION			
all be 100% radiographic (x-ray)	a. Pedestal shall be fabricated in accordance with ABS Rules for Certification of Lifting Appliances			
ructive Inspected in accordance ructive Inspection of Hull Welds, Critical welds are identified in this occur prior to the installation of	<ul> <li>b. Pedestal plate shall be rolled to the diameters shown.</li> <li>Diameters shall be within ¼" tolerance in accordance with ABS Guide for Shipbuilding and Repair Quality Standard for Hull Structures During Construction.</li> </ul>			
e 100% visually inspected for	c. Sharp or ragged edges shall be ground smooth to prevent			
b load test, all critical welds shall and 100% magnetic particle	<ul> <li>Injury to personnel or damage to equipment.</li> <li>d. Discontinuities, undercutting, notches, or other mechanical damage which might initiate or propagate cracks in the pedestal structure are not permitted and may result in rejection of the pedestal tube, at po cost to the Owner.</li> </ul>			
omit all weld testing results to the				
	No. References			
	<ul> <li>A. NPCC SWEEP CHART, ALASKA MARINE CRANE MODEL MCKT-2265, AS RIGGED SWEEP LOAD CHART, SC-2154.</li> <li>B. HOMEPORT MARINE dwg P-2 REV A FILLS, VENTS &amp; SOUNDS</li> </ul>			
COMMENTS	Daviaiana			
	Rev.         Sheet         Zone         RevISIONS         Date         Engineer           -         INITIAL ISSUE         10/2/17         PTE			
MINIMUM 50,000 PSI YIELD STRENGTH		B		
	Approvala			
MINIMUM 36,000 PSI YIELD STRENGTH	Agency Date Approvals Action			
DESIGN AND MATERIALS BY CONTRACTOR	Responsible       Engineer       Date       Company       Authorization       Scope         PTE 10-2-17       COASTWISE       AECC1476       REV : TUBE STRUCTURE			





Coastwise Corporation							
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	Title	Crane Pede	stal				
rawn OEC	<sup>Subtitle</sup> Tube & Notes						
roject # 17012	Project	PV Stimson Crane					
cale As noted on	Client	AK Dept. of Public Safety					
34" x 22" Sheet □	Dwg. No.	17012-08-02	Sheet 1 of 2	Rev. -			
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