



- NOTES:**
- PURPOSE OF NEW TRIPOD IS TO SUPPORT THE BOOM OF NEW ALLIED CRANE IN SUCH A WAY THAT THE CRANE STEERING MECHANISM IS RELIEVED OF TORQUE WHEN THE VESSEL IS TOWING A PACKAGE ON OR UNDER THE SEA. TRIPOD MAY ALSO BE USED TO SUPPORT BOOM OF ALLIED CRANE FOR CORING OPERATIONS.
  - GEOMETRY OF HULL, SUPERSTRUCTURE, DECK SOCKETS, AND CRANE IS SHOWN, BASED UPON REFERENCE DRAWINGS. TEMPLATE, OR OTHERWISE CONFIRM, ALL DIMENSIONS FROM SHIP.
  - RECOMMENDED PORT AND STARBOARD LOCATIONS FOR TRIPOD ARE SHOWN IN KEY PLAN. OTHER POSITIONS, FURTHER AFT, MAY BE FEASIBLE.
  - WELDING TO BE IN ACCORDANCE WITH ABS RULES FOR STEEL VESSELS UNDER 90 METERS IN LENGTH. ALL WELDING SHALL BE CONTINUOUS.
  - GRIND SMOOTH SHARP CORNERS AND ROUGH EDGES LIABLE TO CAUSE INJURY TO PEOPLE OR DAMAGE EQUIPMENT.
  - RETAIN EXISTING "CRUTCH" ASSEMBLY FOR USE WITH THIS TRIPOD. DRILL ADDITIONAL HOLES IN BASE PLATE AS SHOWN ON SHEET 2.
  - TIMBER SUPPORT BLOCK TO BE MODIFIED BY SHIP'S CREW AS REQUIRED TO OBTAIN TIGHT FIT AGAINST CRANE BOOM, FOR EACH DIFFERENT LOCATION OF CRANE.
  - TIMBER CONTACT WEDGE TO BE ATTACHED TO CRUTCH TO SUIT TAPERED SECTION OF CRANE BOOM. MAKE WEDGE APPROX 10" WIDE. TRIM WEDGE AFTER INSTALLATION OF TRIPOD WITH CRUTCH ATTACHED.
  - DECK SOCKETS ARE NOMINALLY SPACED 24" C-C. THREADS ARE 1"-8 UNC 2B. OVAL HOLES IN FEET OF TRIPOD ARE OVERSIZE IN ORDER TO ACCOMMODATE SMALL DEVIATIONS FROM NOMINAL SPACING OF DECK SOCKETS.
  - DECK HAS SHEER CURVATURE. TRIPOD FEET ARE COPLANAR AND CENTRAL LEG IS DESIGNED TO STAND VERTICAL WHEN TRIPOD IS MOUNTED ON A HORIZONTAL PLANE (NOT ON THE SHIP). CENTRAL LEG WILL CANT SLIGHTLY FORWARD (NOT VERTICAL) WHEN MOUNTED ON SHIP.
  - DECK HAS CURVED CAMBER. THEREFORE CENTRAL LEG WILL CANT SLIGHTLY OUTBOARD (NOT VERTICAL) WHEN MOUNTED ON SHIP.
  - FOR BOLTING TO DECK, CUT WASHER THICKNESS TO SUIT ACTUAL DECK SOCKETS FOR FULL THREAD ENGAGEMENT.
  - USE ORIGINAL TURNABLE LOCATING PIN, IF EXISTING. IF PIN IS NOT EXISTING, MAKE 1/2" DIAMETER PIN AS SHOWN IN DETAIL 11-A OF REF No.4.
  - PAINTING AND COATING - PENDING SPECIFICATION BY OSU MARINE SUPERINTENDENT.

- REFERENCES:**
- JMC DWG No.93202-101-3-B GEN ARRGT ABY DECKS; R/V WECOMA MID-LIFE REFIT
  - JMC DWG No.93202-101-1-A OUTBOARD PROFILE; R/V WECOMA MID-LIFE REFIT
  - ALLIED CRANE DWG No.60927 GENERAL ARRANGEMENT, TB 60-70
  - NASSA DWG No.7527-02-3 TRIPOD SUPPORT FOR CRANE BOOM
  - A4 DWG No.4710-2 CONCEPT TB NEW TRIPOD
  - FBI DWG No.9250-107-3 BRKAK DECK, FR 25-75



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**R/V WECOMA CRANE SUPPORT MOD**

**ARRANGEMENT & DETAILS**

FOR OREGON STATE UNIVERSITY  
 SCALE 1" = 1'-0", EXCEPT AS NOTED  
 DATE MAY 27, 2010  
 DRAWN BY ALAN WINKLEY, P.E.

DWG No. **4710-3** REV SHEET 1/2