

PILE TABLE

REFERENCE	DEAD LOAD kN (SLS)	LIVE/CRANE kN (SLS)	TENSION kN (SLS)	CUT OFF LEVEL (m)
JP01	70	200	150	+3.735
JP02	70	200	150	+3.735
JP03	70	200	150	+3.735
JP04	70	200	150	+3.735

PILE LOADS ARE UNFACTORED

ALL PILE LOADS BASED ON LOADINGS PROVIDED BY TECHNICAL CRANES LTD.

DRAWING KEY

JPxx DENOTES LOCATION OF JIB CRANE MINI PILE TO SPECIALIST SUPPLIER'S DESIGN & DETAIL TO LOADS PROVIDED BY MBA. REFER TO PILE TABLE FOR LOADS.

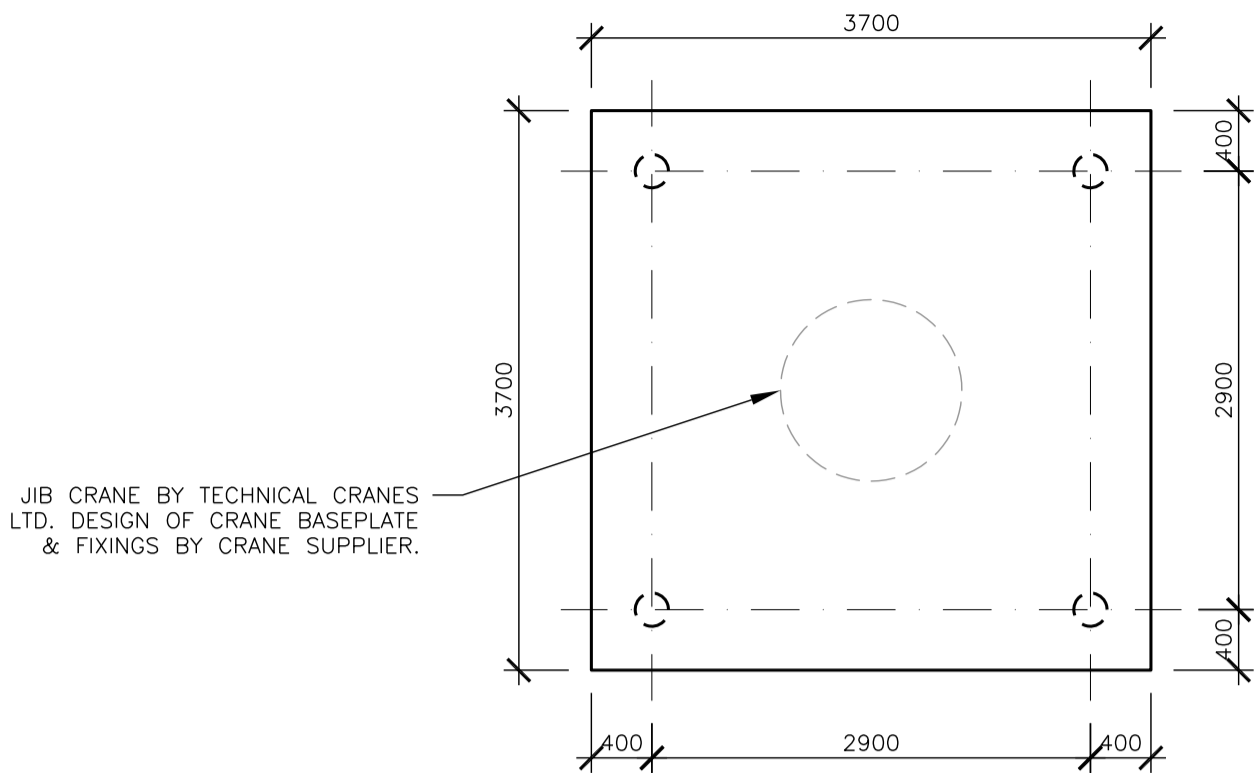
PILE CUT OFF LEVELS BASED ON THE ASSUMPTION THAT THE T.O.C. FOR THE JIB CRANE WILL BE +4.460

Railing 1.10 High
R7000-JIB CRANE WORKING RADIUS

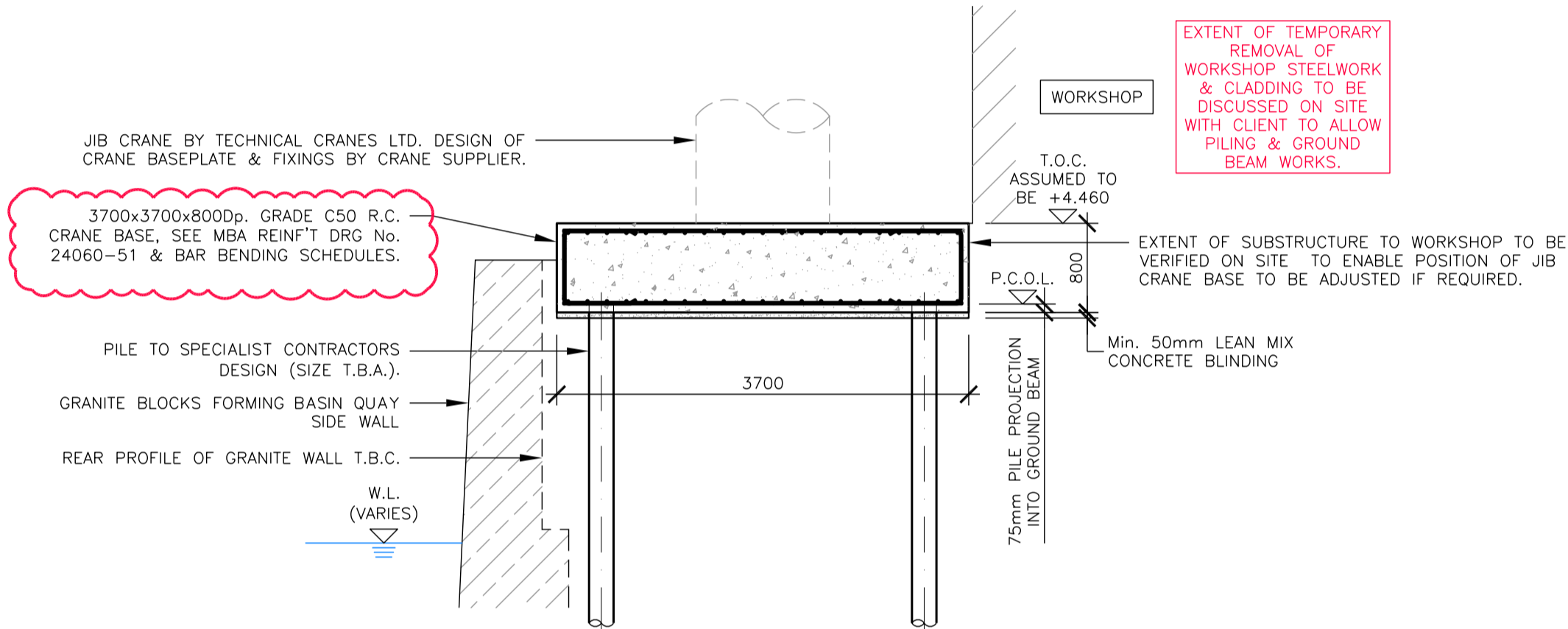
Steps
JIB CRANE BASE.

EXACT POSITION OF JIB CRANE ON DOCK SIDE T.B.A.

PART PROPOSED DRY DOCK PLAN SHOWING JIB CRANE
SCALE 1:50



JIB CRANE BASE SLAB
SCALE 1:50



SECTION A-A
JIB CRANE BASE SLAB
SCALE 1:50

TENDER



NOTES

- THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS MARKED ABOVE "FOR CONSTRUCTION"
- THE COPYRIGHT ON THIS DRAWING IS RETAINED BY MICHAEL BEARDSALL ASSOCIATES LTD
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND THE CORRECT SETTING OUT ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE USED
DO NOT SCALE : IF IN DOUBT ASK
- ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH THE CURRENT BRITISH STANDARDS AND CODES OF PRACTICE
- ALL SET-OUT, LEVEL, AND DIMENSIONAL INFORMATION SHOWN ON THIS AND ANY ASSOCIATED MBA DRGS TO BE CONFIRMED AND APPROVED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR FABRICATION WORKS. REFER TO THE ARCHITECT'S DRGS FOR ALL LOCATIONS, EXTENTS, SPECIFICATIONS, AND DETAILS OF: DPM, WATERPROOFING, INSULATION & THERMAL BREAK LOCATIONS, FINISHES, FIRE PROTECTION (INCLUDING REQ'D FIRE RESISTANCE PERIOD), AND MOVEMENT JOINTS.
- PILING
PILING SPECIALIST'S DESIGN AND SPECIFICATION BASED ON LOADINGS PROVIDED ON THIS DRAWING - REFER TO MBA SPEC AND SITE INVESTIGATION UNDERTAKEN BY KARN GEOSERVICES, REPORT: 24093, JULY 2024. ALL PILES TO HAVE Min. 75mm PENETRATION INTO GROUND BEAMS. ONCE PILING CONTRACTOR HAS UNDERTAKEN PILING DESIGN THEY ARE TO CONFIRM PILE DIAMETERS AND LOCALISED SPACING OF GROUPED PILES BACK TO MBA. MBA WILL THEN CONFIRM ANY AMENDMENTS TO LAYOUT REQUIRED. PILE STARTER BARS TO BE FIXED TO PILE DESIGNER'S DETAILS.
AT PRICING PHASE, PILE CONTRACTOR TO REVIEW DRAWING - MBA TO BE ALERTED OF ANY AMENDMENTS REQUIRED.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING REGARDING SIGNIFICANT RISKS CONSIDERED UNUSUAL, LIKELY TO BE DIFFICULT TO MANAGE OR NOT LIKELY TO BE OBVIOUS TO A COMPETENT CONTRACTOR OR OTHER DESIGNERS.

- STABILITY OF PILING RIG DURING MOVEMENT AROUND SITE & INSTALLATION OF PILES.
- CONTRACTOR TO DESIGN & INSTALL WORKING PLATFORM CAPABLE OF SAFELY SUPPORTING PILE RIG LOADS.
- WORKING IN PROXIMITY TO WATER AND HEIGHT.
- PROPOSED PILE LOCATIONS TO BE SURVEYED FOR ANY UXO CONTAMINATION PRIOR TO PILING.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.



E	14:10:24	REINFORCEMENT DRG REF. ADDED	RBP	GM
D	27:09:24	TENDER ISSUE	RBP	GM
C	23:09:24	ISSUED FOR PRICING	RBP	GM
B	13:09:24	PRELIMINARY ISSUE	RBP	GM
A	06:09:24	WORK IN PROGRESS ISSUE	RBP	DS
	DATE	REVISION SUMMARY	BY	CHK

JOB TITLE:
**PROPOSED ALTERATIONS AT
PENZANCE DRY DOCK
WHARF ROAD, PENZANCE,
CORNWALL, TR18 4BW**
CLIENT:
**DRYDOCK
PENZANCE CORNWALL**

DETAIL:
**PROPOSED DRY DOCK
JIB CRANE FOUNDATION
PLAN, SECTIONS & DETAILS**

DRN. BY: **R.PAINE**
DATE: **JUN '24** SCALE: **AS SHOWN @ A1**

JOB NO:	DRAWING No:	REV:
24060	12	E

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CONSULTING
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PILING

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MBA SPECIFICATION D30 'PILING WORK' & SITE INVESTIGATION UNDERTAKEN BY KARN GEOSERVICES, REPORT: 24093, JULY 2024.

ALL PILES TO HAVE Min. 75mm PENETRATION INTO GROUND BEAMS.

ONCE PILING CONTRACTOR HAS UNDERTAKEN PILING DESIGN THEY ARE TO CONFIRM PILE DIAMETERS AND LOCALISED SPACING OF GROUPED PILES BACK TO MBA. MBA WILL THEN CONFIRM ANY AMENDMENTS TO LAYOUT REQUIRED. PILE STARTER BARS TO BE FIXED TO PILE DESIGNER'S DETAILS.

PILING INFORMATION SHOWN ON MBA DRAWINGS IS INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CARRY OUT THE DETAILED DESIGN OF ALL PILES. ALL PILES TO BE DESIGNED BY CONTRACTOR WITH FACTOR OF SAFETY OF 3.0. PILES TO BE DESIGNED TO COMPLY WITH THE FOLLOWING, UNDER THE MOST ONEROUS COMBINATION OF WORKING LOADS.

- A MAXIMUM DIFFERENTIAL SETTLEMENT OF 5mm OR SPACING OVER 500 WHICH EVER IS LESS BETWEEN ADJACENT PILES.
- TOTAL SETTLEMENT OF PILES NOT TO EXCEED 10mm

ALL PILES TO BE SPACED OUT NOT LESS THAN 3 TIMES IT'S OWN DIAMETER (UNLESS NOTED OTHERWISE).

ALL CONCRETE TO BE C35 N/mm² (UNLESS NOTED OTHERWISE).

ALLOW 1% OF PILES TO BE TESTED TO 1.5x WORKING LOADS WITH MINIMUM OF 1 PER PILE DIAMETER IF FACTOR OF SAFETY IS LOWER THAN 3.0. IF SO THIS MUST BE CLEARLY STATED WITH THE RETURN OF TENDER.

ALL PILES ARE SUBJECT TO NON-DESTRUCTIVE INTEGRITY TESTS.

CONTRACTOR IS TO TAKE INTO CONSIDERATION SITE ACCESS, UNDERGROUND STRUCTURES I.E. TUNNELS, CULVERTS ETC. & SURROUNDING BUILDINGS (AND THEIR BELOW GROUND CONSTRUCTION) SO THAT THEY CAN PROVIDE THE APPROPRIATE PILING RIG TO COMPLETE THE PILING AS SHOWN ON THE DESIGN DRAWINGS & WITHOUT ADVERSELY SURCHARGING ADJACENT STRUCTURES MENTIONED ABOVE. METHOD STATEMENTS OF PILING OPERATIONS UNDER THE ABOVE CIRCUMSTANCES MUST BE SUBMITTED WITHIN THE TENDER RETURN FOR REVIEW.

PILE LOADS GIVEN ARE BASED ON INDICATED PILE CONFIGURATION. LOADS WILL REQUIRE RE-ASSESSMENT BY MBA FOLLOWING PROVISION OF INFORMATION SET OUT AS FOLLOWS:

- PILE SPECIALIST CONTRACTOR TO PROVIDE MBA WITH EXPECTED LOAD/ DISPLACEMENT CHARACTERISTICS OF ALL PILES PROVIDING VERTICAL SUPPORT, WITH THE RETURN OF TENDER.
- CONTRACTOR TO ALLOW FOR THE EFFECT OF REDUCTION OF VERTICAL LOAD CAPACITY OF PILES DUE TO GROUP EFFECT.

IN ADDITION TO THE NOTE ABOVE, THE CONTRACTOR IS REQUIRED TO SUPPLY MBA WITH A CONSTRUCTION ISSUE OF A GENERAL ARRANGEMENT DRAWING SHOWING THEIR PILE SIZES AND SETTING OUT WHICH ALLOWS MBA 4 WEEKS FROM RECEIPT OF THIS INFORMATION TO ISSUE CONSTRUCTION DETAILS OF PILE CAPS AND REINFORCEMENT TO MAIN CONTRACTOR.

DETAILS OF ADJACENT BUILDINGS EXISTING FOUNDATIONS ARE DRAWN FROM LIMITED EXPLORATION EXERCISES. CONTRACTOR MUST ALLOW FOR COST AND PROGRAM FOR DOING ADDITIONAL EXPLORATION TO VERIFY AND BE SATISFIED THAT HE HAS SUFFICIENT INFORMATION TO DESIGN AND PROVIDE ALL NECESSARY TEMPORARY WORK, TO REMOVE ALL BURIED OBSTRUCTIONS THAT IS IN THE WAY OF NEW CONSTRUCTION SAFELY AND EFFICIENTLY.

UNLESS AGREED OTHERWISE, PILES TO BE DESIGNED TO RESIST AN ECCENTRIC FREE HEAD MOMENT DUE TO CONSTRUCTION TOLERANCE OF 75mm.