



EXISTING WORKSHOP PLAN SHOWING PROPOSED FOUNDATIONS & FLOOR SLAB
SCALE 1:100

DRAWING KEY

DENOTES PROPOSED PILE CAP LOCATION. FINAL NUMBER & SETTING OUT OF PROPOSED PILES T.B.C. BY SPECIALIST PILING CONTRACTOR

DENOTES EXISTING COLUMN TO BE REMOVED AS PART OF PROPOSED WORKS.

DENOTES EXISTING COLUMN TO REMAIN.

DENOTES ANTICIPATED 1 PILE PILE CAP

DENOTES ANTICIPATED 2 PILE PILE CAP

DENOTES ANTICIPATED 3 PILE PILE CAP

DENOTES EXTENT OF 350mm Thk. C50 RC SUSPENDED SLAB CAST ON TOP OF EXISTING SLAB. AN EXTENT OF THE EXISTING SLAB TO BE REMOVED TO AVOID EXCEEDING THE REQUIRED MAXIMUM S.S.L. CONCRETE BLINDING TO BE PROVIDED WHERE EXISTING SLAB IS LOWER THAN THE UNDERSIDE OF THE NEW SLAB. SEE MBA REINF'T DRG No. 24060-53 & BAR BENDING SCHEDULES.

THE NEW SUSPENDED RC WORKSHOP SLAB HAS BEEN DESIGNED FOR THE FOLLOWING IMPOSED LOADINGS:

- A 25kN/m² UNIFORMLY DISTRIBUTED AREA LOAD THROUGHOUT, WITH PATTERN LOADING TO DETERMINE MOST ONEROUS CASE.
- A 100kN/m LINE LOAD LONGITUDINALLY ALONG THE CENTRE OF EACH CRANE BAY
- THE CRANE LOADINGS PROVIDED BY TECHNICAL CRANES.

THE LOADINGS PROVIDED IN THE PILING SCHEDULE ARE BASED UPON THE WORST COMBINATION OF THESE LOADINGS.

REFERENCE	DEAD LOAD kN (SLS)	IMPOSED LOAD kN (SLS)	DEAD + IMPOSED kN (SLS)	CUT OFF LEVEL (m)
WP01	150	500	650	+4.235
WP02	250	800	1050	+4.235
WP03	200	625	825	+4.235
WP04	150	500	650	+4.235
WP05	100	325	425	+4.235
WP06	100	250	350	+4.235
WP07	50	175	225	+4.235
WP08	150	450	600	+4.235
WP09	150	500	650	+4.235
WP10	150	500	650	+4.235
WP11	150	500	650	+4.235
WP12	150	450	600	+4.235
WP13	75	250	325	+4.235
WP14	125	325	450	+4.235
WP15	250	725	975	+4.235
WP16	225	650	875	+4.235
WP17	250	725	975	+4.235
WP18	175	525	700	+4.235
WP19	100	250	350	+4.235
WP20	200	575	775	+4.235
WP21	250	775	1025	+4.235
WP22	250	750	1000	+4.235
WP23	250	725	975	+4.235
WP24	250	775	1025	+4.235
WP25	175	500	675	+4.235
WP26	150	400	550	+4.235
WP27	275	800	1075	+4.235
WP28	250	725	975	+4.235
WP29	225	650	875	+4.235
WP30	200	550	750	+4.235
WP31	75	175	250	+4.235
WP32	125	375	500	+4.235
WP33	200	575	775	+4.235
WP34	200	550	750	+4.235
WP35	200	575	775	+4.235
WP36	200	625	825	+4.235
WP37	125	375	500	+4.235
WP38	100	325	425	+4.235
WP39	150	675	775	+4.235
WP40	150	725	875	+4.235
WP41	100	500	600	+4.235
WP42	275	975	1250	+4.235
WP43	300	950	1250	+4.235
WP44	125	375	500	+4.235
WP45	375	1150	1525	+4.235
WP46	400	1275	1675	+4.235
WP47	350	1150	1500	+4.235
WP48	375	1175	1550	+4.235
WP49	300	1025	1325	+4.235
WP50	100	425	525	+4.235
WP51	75	550	625	+4.235
WP52	275	825	1100	+4.235
WP53	50	150	200	+4.235
WP54	225	675	900	+4.235
WP55	225	675	900	+4.235
WP56	225	450	675	+4.235
WP57	125	275	400	+4.235
WP58	200	650	850	+4.235
WP59	150	450	600	+4.235
WP60	25	150	175	+4.235

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

PILECAP LOADS ARE UNFACTORED
INITIAL PILE CAP DESIGN
ASSUMING 600kN PER PILE
SUGGESTS 107 PILES FOR
WORKSHOP AREA

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 PROPOSED SLAB. A PILE DIAMETER OF 273mm HAS BEEN ASSUMED IN THE SLAB DESIGN - 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 AND CONFIRM THERE IS SUITABLE DISTANCE FOR SAFE OPERATION OF PILING RIG - MBA TO BE ALERTED OF ANY AMENDMENTS REQUIRED.
PILE POSITIONS SUBJECT TO CHANGE TO SUIT EXISTING SUBSTRUCTURE OBSTRUCTIONS AND FEATURES.

FOR FULL PILING NOTES SEE

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.



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

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

CLIENT:
**DRYDOCK
PENZANCE CORNWALL**

DETAIL:
**EXISTING WORKSHOP PLAN
SHOWING PROPOSED
FOUNDATIONS AND FLOOR SLAB**

DRN. BY: **R.PAINE**

DATE: **SEPT '24** SCALE: **1:100 @ A1**

JOB NO:	DRAWING No:	REV:
24060	30	D

MBA
CONSULTING

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