

LEGEND:

- PA** - PLATFORM ANCHOR WALL SHEETPILES
- PF** - PLATFORM FRONT WALL SHEETPILES
- PN** - PLATFORM NORTH WALL SHEETPILES
- PS** - PLATFORM SOUTH WALL SHEETPILES
- PCB** - PLATFORM CAPPING BEAM
- PWC** - PLATFORM WALER CONNECTION
- PMC** - PLATFORM MIDDLE CONNECTION
- PCC** - PLATFORM CORNER CONNECTION
- PBO** - PLATFORM BOLLARD DETAILS
- PFF** - PLATFORM FENDER FIXING
- PCP** - PLATFORM CORNER PROTECTION
- PTF** - PLATFORM FRONT WALL TIE-RODS
- PTS** - PLATFORM SIDE WALL TIE-RODS
- PC** - PLATFORM CLUTCH CONNECTOR

NOTES:

- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- ALL LEVELS IN m RELATED TO CD UNLESS NOTED OTHERWISE.
- STEEL GRADE SHEETPILES: AS PER AZ SHEETPILE SCHEDULE.
- STEEL GRADE TIE-RODS: ASD0500 OR EQUIVALENT.
- STEEL GRADE WALING: S355J2.
- STEEL GRADE STEEL PLATES S355J2 UNLESS NOTED OTHERWISE.
- SLIPWAY SHEETPILES ARE CONNECTED TO PLATFORM SIDE WALL SHEETPILES BY C9 CLUTCH CONNECTOR.
- COMPACTION OF FILL IS NOT REQUIRED.
- DESIGN IS BASED ON 50TON BOLLARD BY TRELLEBORG.
- BOLLARDS TO BE LABELLED WITH 40TON.
- EACH TIE-ROD INSTALLED WITH 2 HINGES, CORNER TIE-ROD WITH 1 HINGE.
- TOP WALERS TO BE PROVIDED WITH DRAINAGE HOLES Ø10 CTC 1.00m ALONG THE CENTERLINE.
- NO TENSIONING OF TIE-RODS REQUIRED BEYOND REMOVAL OF SLACK.
- DESIGN TOE LEVEL IN ACCORDANCE TO DESIGN REPORT FOR FRONT WALL AZ52-700 AND AZ42-700, -21mCD AND -19mCD RESPECTIVELY. 1m ADDITIONAL PENETRATION TO ALLOW SOME SCOUR.
- ALL SHEETPILES EXCEPT ANCHOR WALL SHEETS TO BE PROVIDED WITH WEEP HOLES, SEE DRAWING BAA.4010-DMC-ZZ-WRF-DR-C-1006.
- FOR INSTALLATION ALL QUAY FURNITURE SEE DRAWING BAA.4010-DMC-ZZ-WRF-DR-C-1011.
- GALVANISING 85µm MINIMUM IN ACCORDANCE WITH ISO 1461.

AZ SHEETPILE (PA, PF, PN, PS) SCHEDULE						
QUANTITY	MARK	TOP LEVEL (m)	BOTTOM LEVEL (m)	LENGTH (m)	SHEETPILE TYPE	MINIMUM STEEL GRADE
2	PA-1	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-2	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-3	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-4	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-5	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-6	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-7	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-8	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-9	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-10	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-11	1.750	-6.250	8.000	AZ36-700N	S355 GP
2	PA-12	1.750	-5.500	7.250	AZ36-700N	S355 GP
2	PA-13	1.750	-5.500	7.250	AZ36-700N	S355 GP
2	PA-14	1.750	-5.500	7.250	AZ36-700N	S355 GP
2	PA-15	1.750	-5.500	7.250	AZ36-700N	S355 GP
2	PA-16	1.750	-5.500	7.250	AZ36-700N	S355 GP
2	PF-1	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-2	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-3	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-4	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-5	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-6	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-7	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-8	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-9	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-10	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-11	2.185	-22.000	24.185	AZ52-700	S390 GP
2	PF-12	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PF-13	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PF-14	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PF-15	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PF-16	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PF-17	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PF-18	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PF-19	2.185	-20.000	22.185	AZ42-700N	S390 GP
2	PN-1	2.185	-19.000	21.185	AZ42-700N	S390 GP
2	PN-2	2.185	-19.000	21.185	AZ42-700N	S390 GP
2	PN-3	2.185	-19.000	21.185	AZ42-700N	S390 GP
2	PN-4	2.185	-19.000	21.185	AZ42-700N	S390 GP
2	PN-5	2.185	-19.000	21.185	AZ42-700N	S390 GP
2	PN-6	2.185	-19.000	21.185	AZ42-700N	S390 GP
2	PN-7	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PN-8	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PN-9	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PN-10	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PN-11	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PN-12	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PN-13	2.185	-8.000	10.185	AZ24-700	S355 GP
2	PN-14	2.185	-8.000	10.185	AZ24-700	S355 GP
2	PN-15	2.185	-8.000	10.185	AZ24-700	S355 GP
2	PN-16	2.185	-8.000	10.185	AZ24-700	S355 GP
2	PN-17	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PN-18	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PN-19	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PN-20	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PN-21	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PN-22	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PN-23	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PN-24	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-1	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-2	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PS-3	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PS-4	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PS-5	2.185	-15.000	17.185	AZ24-700	S390 GP
2	PS-6	2.185	-8.000	10.185	AZ24-700	S355 GP
2	PS-7	2.185	-8.000	10.185	AZ24-700	S355 GP
2	PS-8	2.185	-8.000	10.185	AZ24-700	S355 GP
2	PS-9	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-10	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-11	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-12	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-13	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-14	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-15	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-16	2.185	-3.000	5.185	AZ24-700	S355 GP
2	PS-17	2.185	-3.000	5.185	AZ24-700	S355 GP

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS, RISKS NORMALLY ASSOCIATED WITH THE TYPE OF CONSTRUCTION WORK OR RELATED STRUCTURAL WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS AND INFORMATION.

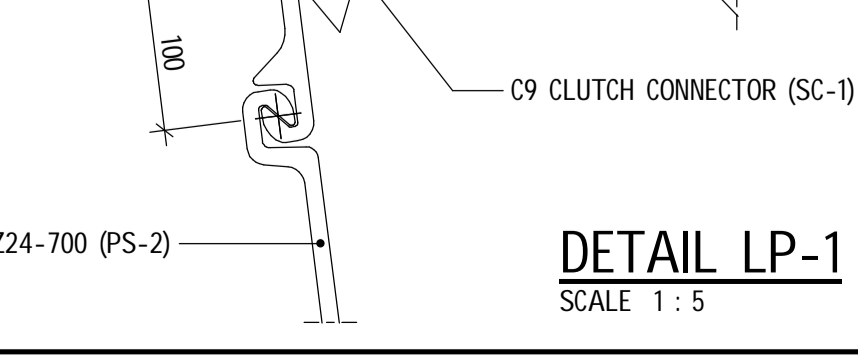
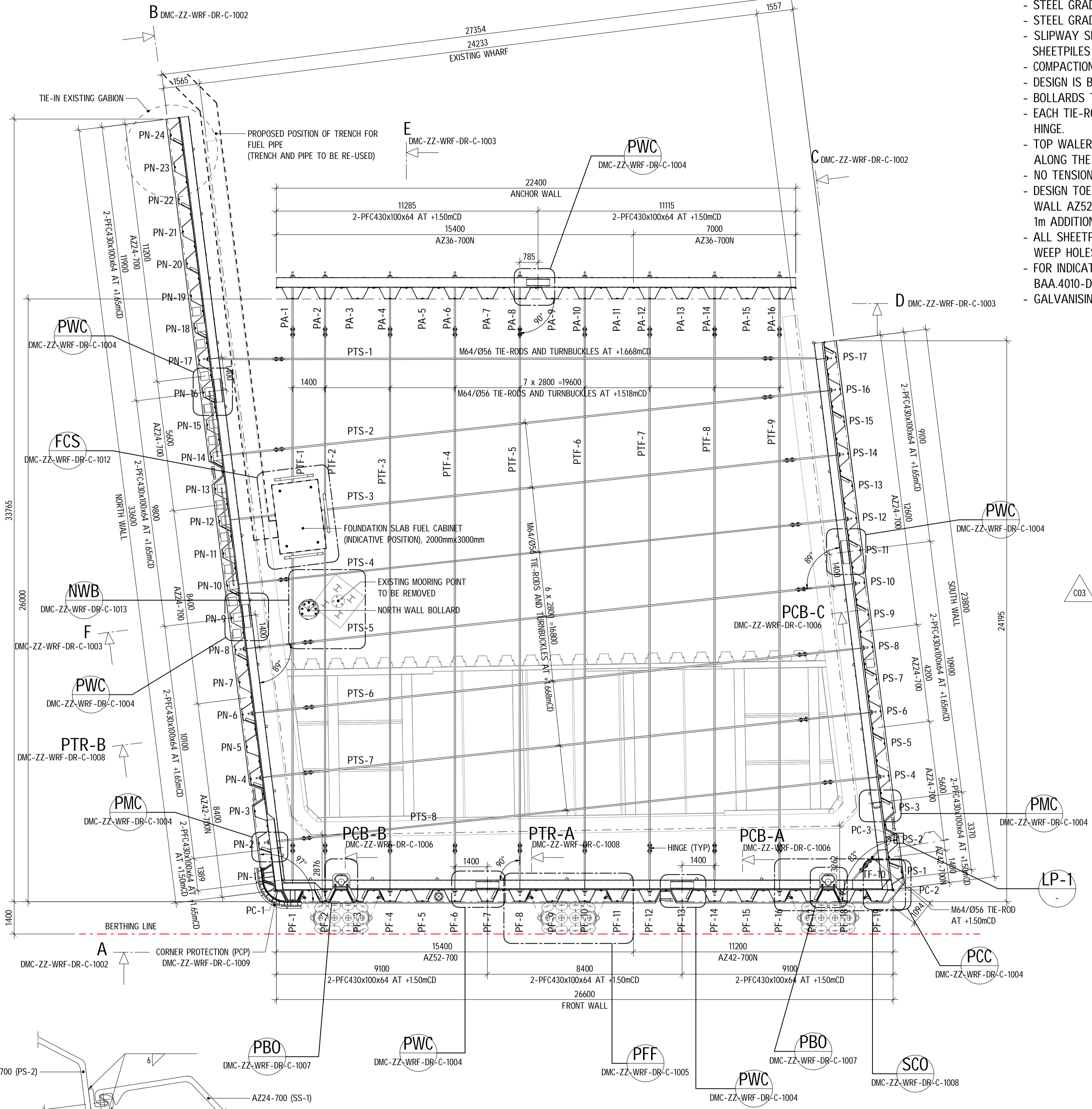
RISKS LISTED HERE ARE SIGNIFICANT, AND ASSOCIATED WITH THE CONSTRUCTION WORK OR RELATED STRUCTURAL WORK. FOR DESIGN RISK REGISTER SEE BAA.4010-DMC-ZZ-WRF-RA-C-001.

- THIS DRAWING CAN BE USED TO PREPARE FABRICATION AND SHOP DRAWINGS OF THE STEEL STRUCTURE.
- ONLY TYPICAL DETAILS HAVE BEEN CONSIDERED ON THE DESIGN DRAWINGS. DETAILS NEED TO BE FURTHER DEVELOPED BY STEEL FABRICATOR/SUPPLIER AND SEND TO BAM/DMC FOR REVIEW. AS RESULT OF THIS, FINAL DETAILS MAY DIFFER A BIT FROM THE ONES INDICATED ON THIS DRAWING.
- WATER LEVEL DIFFERENCES DUE TO PUMPING OF WATER ARE NOT ACCOUNTED FOR DURING DESIGN.
- ALL INFORMATION REGARDING EXISTING WHARF STRUCTURE TO BE CHECKED ON SITE.
- LENGTH OF SHEETPILE DOES NOT INCLUDE ANY ALLOWANCE FOR OVERLENGTH.
- TIE-ROD TURNBUCKLES NOT SHOWN IN THE DRAWINGS.
- FENDER DIMENSIONS AND DETAILS TO BE FINALIZED IN CONSULTATION WITH FENDER SUPPLIER.
- MINIMUM FILL THICKNESS OF 300mm ABOVE TIE-RODS TO BE MAINTAINED AT ALL TIMES. EXPOSED TIE-RODS TO BE COVERED ASAP (SEE O&M MANUAL).
- RECESSES TO BE MADE IN THE EXISTING CONCRETE CAPPING BEAM CTC 140mm AND COINCIDE WITH FRONT WALL TIE-RODS. RECESS WIDTH MIN 200mm & DEPTH TO EXISTING DECK LEVEL.
- WALER BEAMS ARE TO BE PROPERLY SUPPORTED ON THE BACKFILL. THE UNDERLYING BACKFILL SHOULD BE LEVEL AND WITHOUT CAVITIES TO ENSURE UNIFORM SUPPORT.
- NO APPLICATION AND/OR MAINTENANCE OF COATING IS FORESEEN ON THE STEEL STRUCTURES. A CORROSION ALLOWANCE IS INCLUDED IN THE MATERIAL THICKNESS.
- CARGO/SURCHARGE LIMITATIONS APPLY AFTER FLOODING OF WHARF DUE TO HIGH WATER LEVELS OR WAVE ACTION. REFER TO O & M MANUAL FOR FURTHER GUIDANCE.
- ALL STEEL MEMBERS HAVE A DESIGN LIFE OF 50 YEARS. AFTER THIS PERIOD THE STRUCTURE NEEDS TO BE DISMANTLED OR THE REMAINING STRUCTURE INTEGRITY SHOULD BE RE-ASSESSED.
- WEEP HOLES SHOULD BE INSPECTED AND ANY MARINE GROWTH / CORROSION NEEDS TO BE REMOVED FOR FURTHER GUIDANCE. SEE O & M MANUAL.
- MONITORING AND REPAIR OF SCOUR HOLES IN ACCORDANCE WITH THE O&M MANUAL.

FOR DESIGN - CONSTRUCTION INTERFACE REQUIREMENTS SEE METHOD STATEMENT BAA.4010-BAM-ZZ-YYY-MS-W-001.

CONSTRUCTION SEQUENCING:
 - DEVIATIONS FROM THE SUGGESTED CONSTRUCTION SEQUENCE TO BE AGREED WITH THE DESIGNER.
 1. ANCHOR WALL SHEETPILES.
 2. PLATFORM SHEETPILES.
 3. TIE-RODS FRONT WALL THEN SIDE WALLS.
 4. SLIPWAY SHEETPILES.
 5. BACKFILLING PLATFORM.
 6. BACKFILLING SLIPWAY:
 - PLATFORM BACKFILLING TO COMMENCE AFTER TIE-RODS ARE SECURED AND FASTENED.
 - FILL OF THE LOADING PLATFORM SHOULD NOT EXCEED LEVEL -6.5mCD PRIOR TO INSTALLATION OF THE SLIPWAY SHEETPILES.

GRAND TOTAL: 152
 *DESIGN IS BASED ON -21mCD TOE LEVEL.
 ** DESIGN IS BASED ON -19mCD TOE LEVEL.



PLAN - LOADING PLATFORM
 SCALE 1 : 100

CLUTCH CONNECTOR (PC) SCHEDULE						
QUANTITY	MARK	TOP LEVEL (m)	BOTTOM LEVEL (m)	LENGTH (m)	SHEETPILE TYPE	MINIMUM STEEL GRADE
1	PC-1	2.185	-19.000	21.185	DELTA13	S390 GP
1	PC-2	2.185	-19.000	21.185	DELTA13	S390 GP
1	PC-3	-1.600	-15.000	13.400	C9	S355 GP

GRAND TOTAL: 3

Client: **BRITISH ANTARCTIC SURVEY**

Project: **KING EDWARD POINT WHARF UPGRADE**

Description: **DETAILED DESIGN LOADING PLATFORM PLAN VIEW**

Scale: 1:100

Author: MSG / ETZ

Checker: MKE

Released: EGI

Drawing number: **BAA.4010-DMC-ZZ-WRF-DR-C-1001**

BAM Drawing number:

Status: **FOR CONSTRUCTION**

Revision: C03

Suitability: A

Date: 21/11/19

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