

28 November 2023

Michael Andrew Beare
C/- Project Urban
Trish Belt
PO Box 6380
MAROOCHYDORE BC 4558

Email: trish.belt@projecturban.com.au

Dear Mr Beare,

REFERRAL AGENCY RESPONSE - RR2023/011/01
(GIVEN UNDER S56 PLANNING ACT 2016)

1 Application Details

The development application was referred to the Gladstone Ports Corporation Limited under section 54 of the *Planning Act 2016* on 25 October 2023.

Application Number:	RR2023/011/01
Applicant Name:	Michael Andrew Beare
Applicant Contact Details:	Michael Andrew Beare C/- Project Urban Trish Belt PO Box 6380 MAROOCHYDORE BC 4558 Email: trish.belt@projecturban.com.au
Approval Sought (Port Limits):	OPW – Operational works that is tidal works within the limits of a Port – GPC as the Referral Agency
Details of Proposed Development:	Operational works that is for the removal of an existing catwalk and its support pile, removal of the old pontoon pile and installation of a new pontoon system within the limits of a port under the Transport Infrastructure Act
Location Street Address:	18 O'Brien Street, Granville
Location Real Property Description:	Lot 24 SP289765
Land Owner:	Department of Resources Michael Andrew Beare
Priority Port Overlay	N/a

2 Description Of Proposed Development

Operational works that is for the removal of an existing catwalk and support pile, removal of the old pontoon pile and installation of a new pontoon system.

3 Referral Triggers

This development application was referred to the Gladstone Ports Corporation Limited under the following provisions of the *Planning Regulation 2017*:

Schedule 10, Part 13, Division 3, Table 1

- a. Prescribed assessable development within limits of a port; and
- b. On land below high-water mark and within the limits of a port under the *Transport Infrastructure Act 1994*

4 Details of Referral Response

This development application has been assessed against port authority functions under the *Transport Infrastructure Act 1994*, Chapter 8, Part 3 as required in Schedule 10, Part 13, Division 3, Table 1, Item 4 of the *Planning Regulation*.

The Gladstone Ports Corporation Limited requests the Assessment Manager, under section 56(3) of the *Planning Act 2016* to give the following advice stated in Attachment 1.

For further information please contact Trudi Smith, Planning Specialist on 07 4976 1314 or via email planning@gpcl.com.au.

Yours sincerely



Craig Haymes
Chief Executive Officer

Cc: Assessment Manager

Enc. Attachment 1: Referral Agency Advice

Attachment 1: Referral Agency Advice

PART 1: REFERRAL AGENCY ADVICE

In general the development proposal is in compliance with the requirements of *Transport Infrastructure Act 1994* (Chapter 8, Part 3). This Referral Agency response is subject to each the following conditions which are stated by GPC, the Referral Agency.

Part 1a: Approval sought under the Planning Act 2016 – Operational works that is tidal works within the limits of a port.

General

1. Unless otherwise stated, all conditions must be complied with and completed prior to the commencement of the development.
2. Where additional “approval” is required under these conditions by the Referral Agency (Gladstone Ports Corporation Limited) for drawings or documentation the Applicant must submit for review, amend to the satisfaction of, and obtain written approval from the Referral Agency.

Furthermore, the Referral Agency will require no less than 10 business days, unless otherwise conditioned by the Referral Agency, to initially assess the drawings or documentation provided prior to the commencement of the works. Should further information be required for assessment, the Referral Agency will require a further 5 business days to complete the information request assessment and response.

3. The development must be a designed and constructed to mitigate potential adverse impacts to port functions, services and facilities, and to maintain safe navigable access within Port Limits.

Engineering

4. The tidal works must be undertaken generally in accordance with the approved plans.
5. Prior to commencement of the works, the Applicant must supply the Referral Agency with RPEQ certified “For Constructed” plans in both hard copy (2 of) and electronic (CAD format) which illustrate all infrastructure and services proposed to be installed on, under or over Port limits associated with the activity unless otherwise approved in writing by the Referral Agency.
6. Upon completion of the works, the Applicant must supply the Referral Agency with RPEQ certified “As Constructed” plans in both hard copy (2 of) and electronic (CAD format) which illustrate all infrastructure and services installed on, under or over Port limits associated with the activity unless otherwise approved in writing by the Referral Agency.
7. The Applicant must inform the Referral Agency of completion of works within Port Limits within 14 days of practical completion and certify that the site is fit for purpose.
8. Any site lighting used during construction / operation should not negatively impact on the visibility of Navigational Aids utilised for the primary shipping channels within Port Limits nor illuminate a landward glare beyond the site boundary. Lighting must be reviewed during construction and use of the development with respect to navigation. Where an issue is identified or a validated complaint received, the Applicant must immediately rectify to the satisfaction of the Referral Agency.
9. Any material which is deposited (not authorised under this approval) or any debris which falls or is deposited within Port Limits during the construction of the approved development shall be

removed by the applicant at their cost and expense prior to the commencement of the use of approved structure.

Upon completion of construction, the applicant shall provide the Referral Agency with written confirmation that the waterway is clear of foreign materials not authorised under this approval.

10. If, as a result of the works, or other cause attributable to the Applicant, any bank or tidal structure within Port Limits is displaced (excluding approved works), the Applicant at its cost and expense shall restore the bank or structure to its former condition and take such other action as is necessary to ensure the stability of the bank or structure to the satisfaction of the Regional Harbour Master.
11. Prior to works within Port Limits commencing, the Applicant or their contractor must supply to the Referral Agency for review and approval an Emergency Management Plan for the works within Port Limits for all potential incidents e.g. contaminant spill, riverine flood, adverse weather etc.

Incident Notification

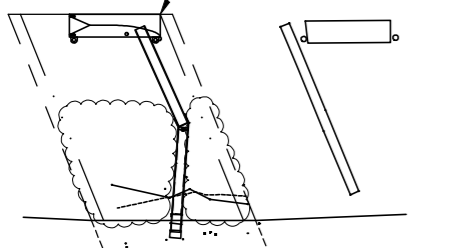
12. At all times, Gladstone Ports Corporation Environmental Hotline (07) 4976 1617 is to be notified of the occurrence of any:
 - a) Release / spill of contaminants (e.g. fuels / chemicals / sewerage) of any amount to water, and
 - b) Any environmental complaints received by the holder of this approval.
13. Environmental incident notification must be included in any Management Plans for the works within Port Limits.

Referral Agency Advice Notes

- a. Where the Applicant is required to submit further documentation to the Referral Agency, this is to be directed to the Planning section at planning@gpcl.com.au, including reference to the allocated referral response number.
- b. All development should proceed in accordance with the duty of care guidelines under the *Aboriginal Cultural Heritage Act 2003*. Penalties may apply where duty of care under that Act has been breached.
- c. The *Environmental Protection Act 1994* states that a person must not carry out any activity that causes, or is likely to cause, environmental harm unless the person takes all reasonable and practicable measures to prevent or minimise the harm. Environmental harm includes environmental nuisance. In this regard persons and entities, involved in the civil, earthworks, construction, and operational phases of this development, are to adhere to their 'general environmental duty' to minimise the risk of causing environmental harm.

PROPOSED REPLACEMENT PONTOON

IDENTIFICATION PLATE
100mm X 50mm X 3mm SS316 PL WITH
TAMPER PROOF SS316 FASTENERS
PLATE TO IDENTIFY - **LOT 24, SP289765,
18 O'BRIEN ST**



UPSTREAM END OF PONTOON TO
HAVE TANGS AND EXTRA FRP BARS
AT FLOOD CABLE PLATE LOCATIONS
REFER STD DRG D-TJS-08-010

FENDER RUBBER
TO ALL SIDES

CAST ALUMINIUM
MOORING CLEATS

LADDER

30m x 10mm FLOOD RESTRAINT CABLE
TO BASE OF DOWNSTREAM PILE
REFER STD DRG D-TJS-08-010

Ø508 x 15.9 W/T
STEEL PILES
WITH Ø560 HDPE SLEEVES
2000 MIN SLEEVE EMBEDMENT

EXISTING PILE
TO BE REMOVED

TAP &
HOSE HOLDER

LIGHT &
POWER

NEW 1400 CATWALK

WATER ALLOCATION BOUNDARY

MARINE VEGETATION LINE

NEW
Ø340 x 12.7 W/T
GRADE 550 STEEL PILE
WITH Ø380 HDPE SLEEVE
2000 MIN SLEEVE EMBEDMENT

NEW
ALUMINIUM
HEADSTOCK

MINOR TRIMMING OF
MARINE PLANTS.
LESS THAN 25m²

EXISTING PILE
TO BE REMOVED

EXISTING CATWALK TO
BE REMOVED

EXISTING ABUTMENT
BLOCK TO REMAIN
UNDER NEW CATWALK

Ambulatory Boundary

STANDARD LAND ANCHOR &
PIANO HINGE CONNECTION

LAYOUT PLAN

SCALE 1:150

NOTES:

EXISTING STRUCTURES SHOWN IN APPROX POSITION
EXISTING APPROVED PILES TO BE REMOVED.

DESIGN LIVE LOADINGS

PONTOON - 1.5kPa
CATWALK - 1.5kPa

BERTHING:

Maximum wet vessel length - 15.0m
Maximum wet vessel beam - 8.0m

SPECIFICATIONS:

CARPET COLOUR - LIGHT GREY
RUBBER FENDER COLOUR - WHITE
PONTOON/DECK PILES/CAPS - WHITE
LIGHT UNIT - LED, PE SWITCH, 1 SINGLE 15 AMP GPO

SCOPE OF WORKS BY TJS:

- 1) EXISTING CATWALK AND PILES TO BE REMOVED
- 2) CATWALK AND PILES TRANSPORTED TO LOAD OUT FACILITY AND DUMPED.
- 3) 3 NEW PILES INSTALLED AND NEW HEADSTOCK FITTED TO INNER PILE.
- 4) NEW PONTOON WITH 2 NEW 8 ROLLER PILE BRACKETS FITTED TO NEW PILES.
- 5) NEW ABUTMENT BLOCK INSTALLED WITH BROOMED FINISH TO SURFACE.
- 6) NEW 15m FIXED CATWALK INSTALLED ONTO ABUTMENT AND INNER PILE HEADSTOCK.
- 7) NEW CATWALK CONNECTED TO FIXED CATWALK AND LOWERED ONTO NEW PONTOON.
- 8) 30m GRADE 316 STAINLESS STEEL FLOOD SAFETY CABLE SUPPLIED AND INSTALLED.

**SITE PLAN &
WATER ALLOCATION**
SCALE 1:1000

LOT 24 SP289765
LOT 25 SP289765
LOT 23 SP289765



FOR APPROVAL

REV	DESCRIPTION	DRN	BY	DATE	APPD
C	CATWALKS ANGLE CHANGED	MA		26/4/23	LR
B	BOUNDARY PROLONGATIONS ALTERED, PONTOON MOVED	MA		4/3/23	LR
A	FIRST ISSUE	MA		02/03/2023	LR

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING

CHKC: *[Signature]* R.P.E.Q. 06807 DATE: 31.05.2023

THE Jetty SPECIALIST
18 RON PARKINSON CR BELLS CREEK QLD 4551
1300 260 878 www.tjsmarine.com.au home@tjsmarine.com.au

CLIENT: BEARE MA
LOT 24 (18) O'BRIEN ST
GRANVILLE

PROJECT: PROPOSED PONTOON REPLACEMENT

TITLE: SITE PLAN, LAYOUT
& WATER ALLOCATION'

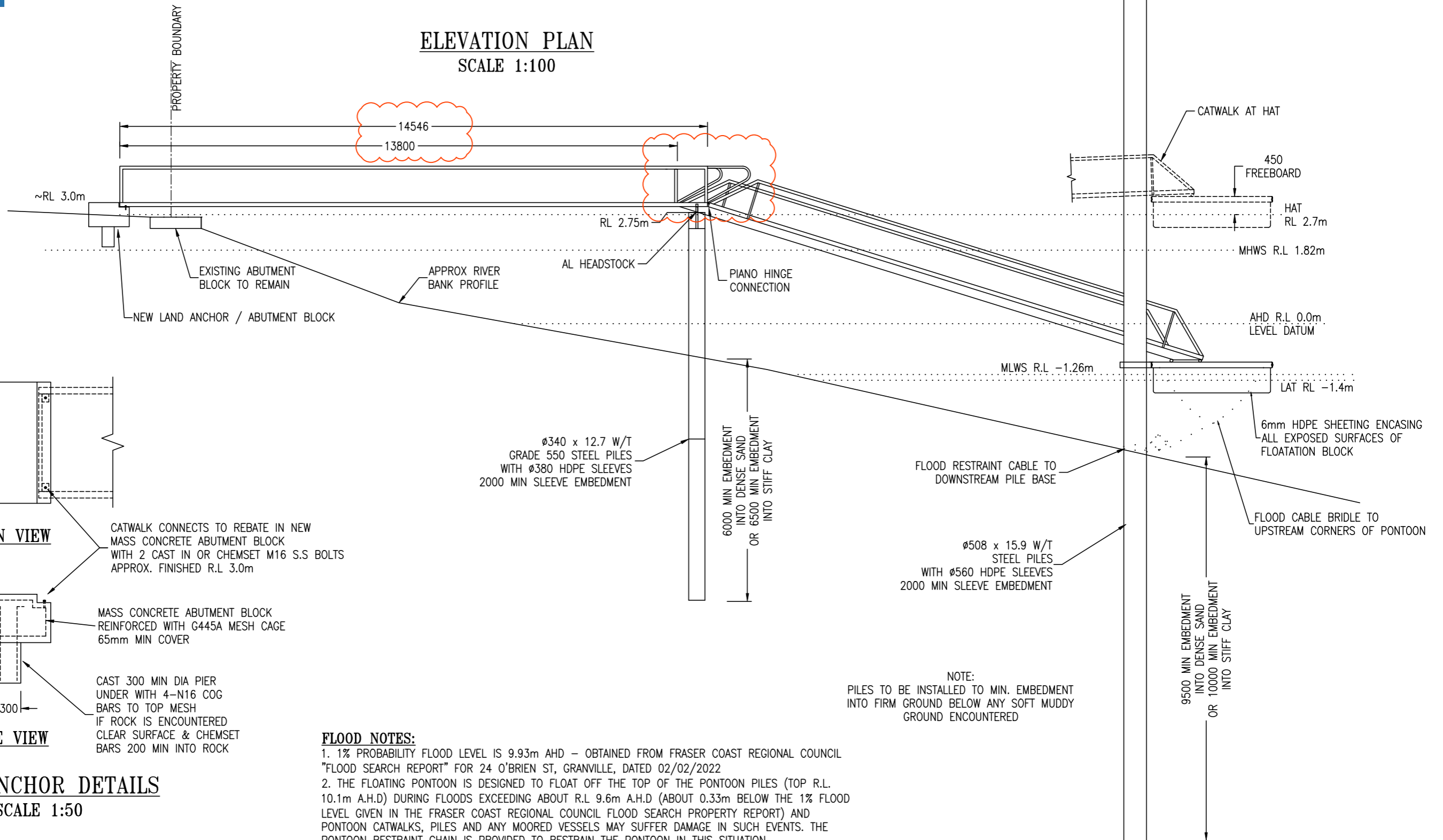
DRAWING No: TJS-SJ-04769-01

SHEET SIZE
A3
SHEET:
B
REV:
C

Q100 = R.L. 9.93m AHD

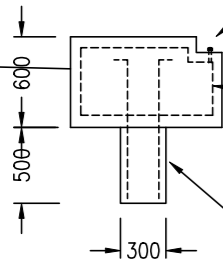
PILE R.L. 10.1m

ELEVATION PLAN
SCALE 1:100



PLAN VIEW

CATWALK CONNECTS TO REBATE IN NEW MASS CONCRETE ABUTMENT BLOCK WITH 2 CAST IN OR CHEMSET M16 S.S BOLTS APPROX. FINISHED R.L. 3.0m



SIDE VIEW

MASS CONCRETE ABUTMENT BLOCK REINFORCED WITH G445A MESH CAGE 65mm MIN COVER

CAST 300 MIN DIA PIER UNDER WITH 4-N16 COG BARS TO TOP MESH IF ROCK IS ENCOUNTERED CLEAR SURFACE & CHEMSET BARS 200 MIN INTO ROCK

LAND ANCHOR DETAILS
SCALE 1:50

FLOOD NOTES:

- 1% PROBABILITY FLOOD LEVEL IS 9.93m AHD – OBTAINED FROM FRASER COAST REGIONAL COUNCIL "FLOOD SEARCH REPORT" FOR 24 O'BRIEN ST, GRANVILLE, DATED 02/02/2022
- THE FLOATING PONTOON IS DESIGNED TO FLOAT OFF THE TOP OF THE PONTOON PILES (TOP R.L. 10.1m A.H.D) DURING FLOODS EXCEEDING ABOUT R.L. 9.6m A.H.D (ABOUT 0.33m BELOW THE 1% FLOOD LEVEL GIVEN IN THE FRASER COAST REGIONAL COUNCIL FLOOD SEARCH PROPERTY REPORT) AND PONTOON CATWALKS, PILES AND ANY MOORED VESSELS MAY SUFFER DAMAGE IN SUCH EVENTS. THE PONTOON RESTRAINT CHAIN IS PROVIDED TO RESTRAIN THE PONTOON IN THIS SITUATION
- THE CATWALKS ARE NOT DESIGNED FOR FLOOD AND / OR DEBRIS LOADS, AND MAY SUFFER DAMAGE DURING FLOODS EXCEEDING THE LEVEL OF THE TOP OF THE LAND ANCHOR (R.L. 3.0m).
- WHENEVER THE BUREAU OF METEOROLOGY FORECASTS MODERATE OR MAJOR FLOODING IN THE MARY RIVER, VESSELS SHOULD BE REMOVED FROM THE PONTOON

NOTE:
PILES TO BE INSTALLED TO MIN. EMBEDMENT INTO FIRM GROUND BELOW ANY SOFT MUDDY GROUND ENCOUNTERED

FOR APPROVAL

REV	DESCRIPTION	DRN	BY	DATE	APPD
C	CATWALKS CHANGED	MA		26/4/23	LR
B	PONTOON & CATWALK AT FLOOD HEIGHT REMOVED	MA		3/4/23	LLR
A	FIRST ISSUE	MA		02/03/2023	BM

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING

CHKC: *[Signature]* R.P.E.Q. 06807 DATE: 31.05.2023

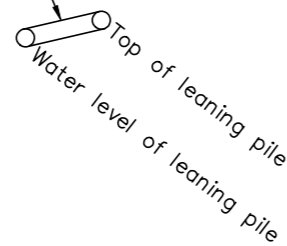
THE Jetty SPECIALIST

18 RON PARKINSON CR BELLS CREEK QLD 4551
1300 260 878 www.tjsmarine.com.au home@tjsmarine.com.au

CLIENT: BEARE MA LOT 24 (18) O'BRIEN ST GRANVILLE
PROJECT: PROPOSED PONTOON REPLACEMENT

TITLE: ELEVATION	SHEET SIZE: A3
DRAWING No: TJS-SJ-04769-02	SHEET: 2
	REV: C

EXISTING DAMAGED PILE TO BE REMOVED



MARY RIVER

EXISTING FIXED CATWALK AND PILE TO BE REMOVED

Floating pontoon

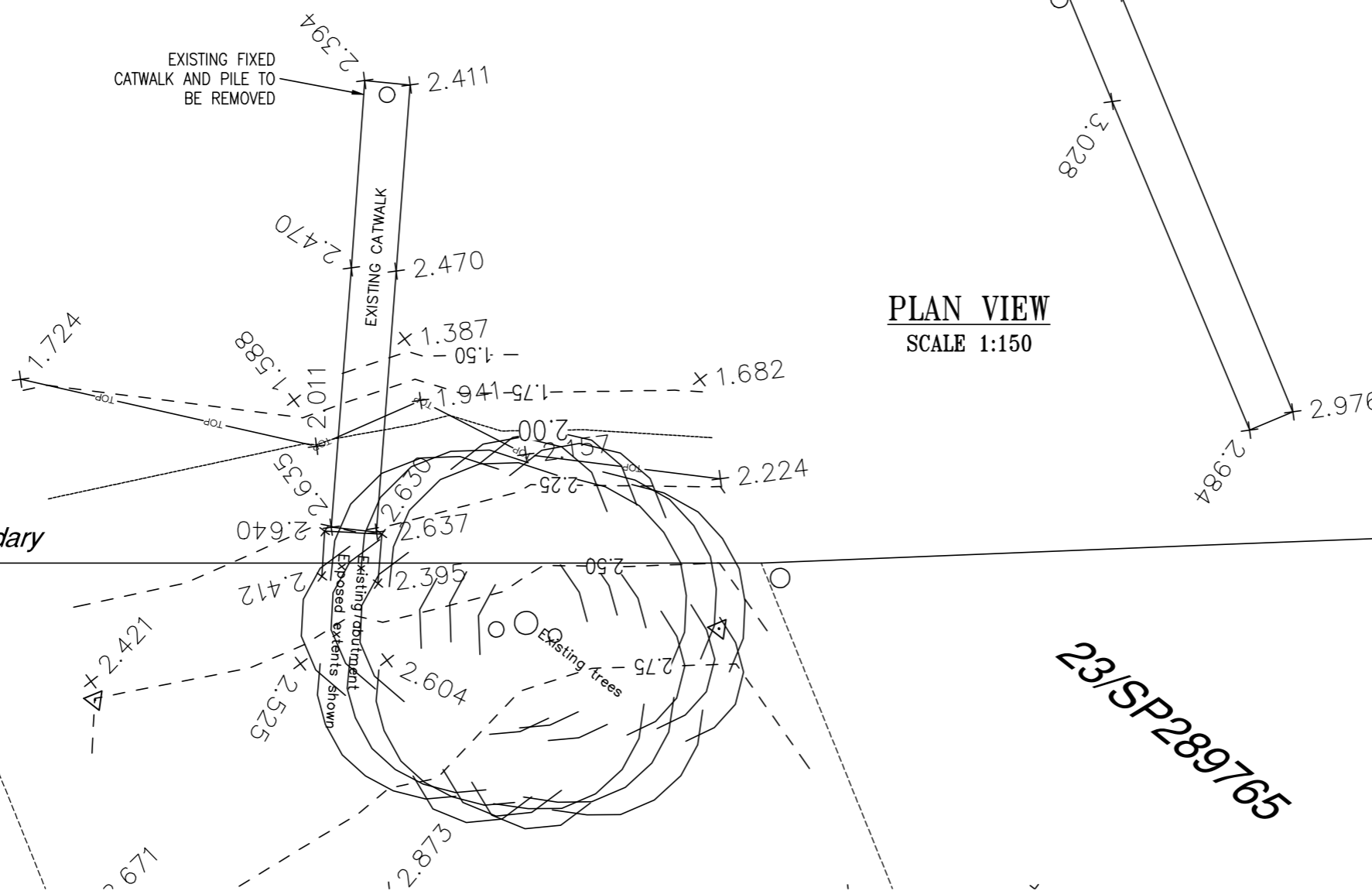
PLAN VIEW
SCALE 1:150

DAMAGED MARINE ACCESS STRUCTURE

Piles and catwalk will be extracted utilising crane barge and placed onto work vessel prior to transportation. Damaged piles and catwalk will be transported to appropriate loadout facility, craned out of water and dumped at registered waste disposal facility or recycled/reused where possible.

Where required divers may be utilised to locate and remove any submerged objects.

New pontoon will be secured to new piles.
New fixed catwalk will be installed onto new abutment block and inner pile headstock. New hinged catwalk will be fitted to fixed catwalk and lowered onto new pontoon.



FOR APPROVAL

REV	DESCRIPTION	MA	DATE	LR	CHKC	R.P.E.Q.	DATE
A	FIRST ISSUE	MA	02/03/2023	LR			

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING

18 RON PARKINSON CR BELLS CREEK QLD 4551
1300 260 878 www.tjsmarine.com.au home@tjsmarine.com.au

THE Jetty SPECIALIST

CLIENT: BEARE MA
LOT 24 (18) O'BRIEN ST
GRANVILLE

PROJECT: PROPOSED PONTOON REPLACEMENT

TITLE: DAMAGED MARINE ACCESS STRUCTURES LAYOUT PLAN

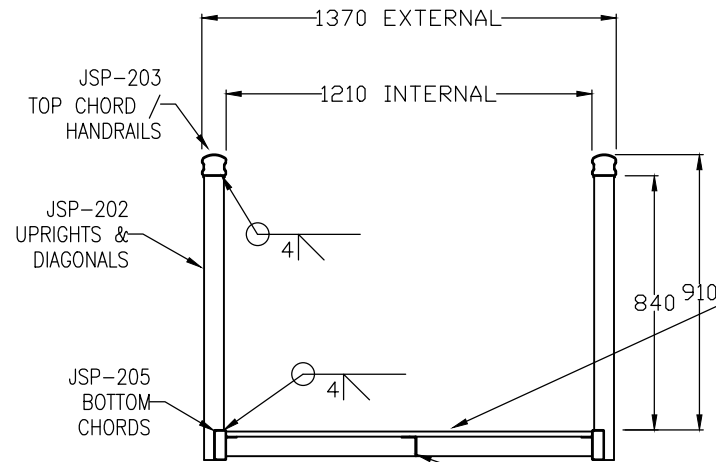
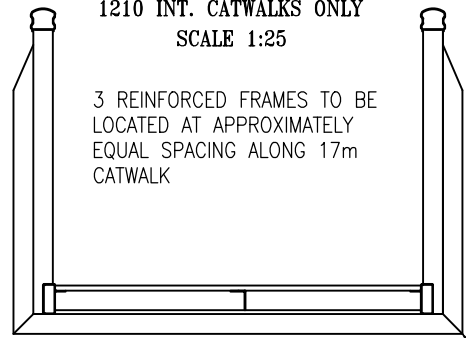
DRAWING No: TJS-SJ-04769-04

SHEET SIZE	A3
SHEET:	4
REV:	A

REINFORCING FRAME

FOR 16.0m - 17m LONG
1210 INT. CATWALKS ONLY
SCALE 1:25

3 REINFORCED FRAMES TO BE
LOCATED AT APPROXIMATELY
EQUAL SPACING ALONG 17m
CATWALK



SECTION A

SCALE 1:25

3mm ALUMINIUM PLATE FIXED TO FRAMING AT 250mm
CRS WITH 4mm AL. RIVETS & COVERED WITH
COMMERCIAL OUTDOOR CARPET. OR 125 X 25mm CCA
TREATED & DRESSED F17 HARDWOOD PLANKS FIXED
WITH 6 / 50 X 10 GAUGE STAINLESS STEEL SCREWS
EACH PLANK.

EXTRA JSP-202 FRAME
STITCH WELDED TO
OUTSIDE OF UPRIGHT

JSP-002 ANGLE CROSS BEAMS AND LONGITUDINALS
WELDED BETWEEN ALL CROSS MEMBERS FOR
CATWALKS WITH TIMBER DECKING.
(1.5kPa & 2kPa LIVE LOAD ONLY)

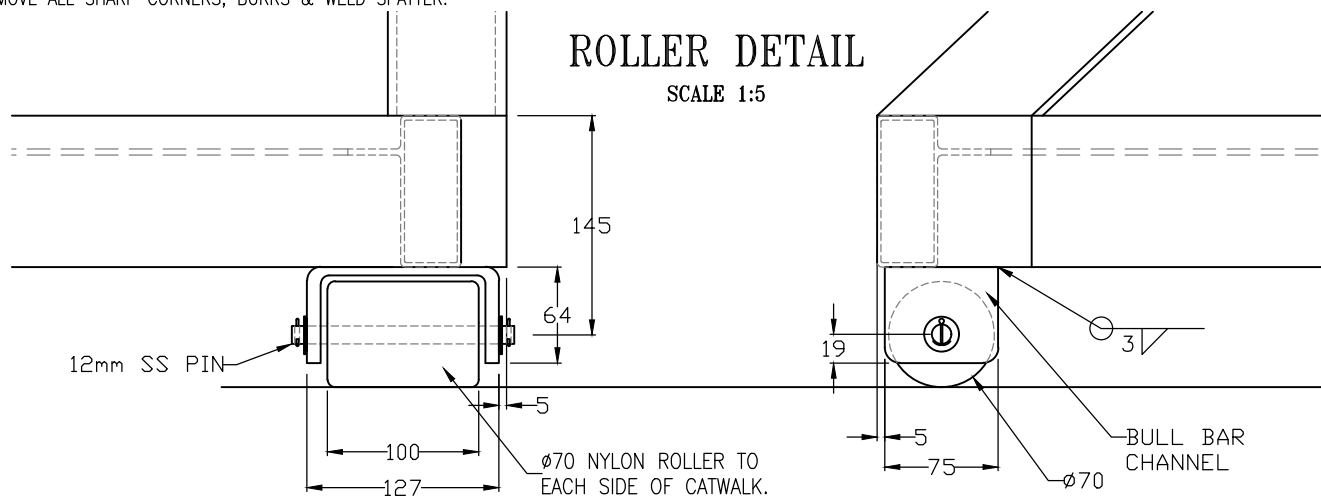
LIVE DECK LOAD	MAXIMUM CATWALK LENGTHS			
	1.5 kPa	2kPa	3kPa	4kPa
3 UPRIGHTS	7.5m	6.7m	6.0m	5.0m
5 UPRIGHTS	11.0m	10.0m	9.0m	8.5m
7 UPRIGHTS	13.0m	12.2m	11.5m	10.5m
9 UPRIGHTS	15.7m	13.9m	12.5m	11.0m
11 UPRIGHTS	17.7m	16.0m	12.7m	11.0m

NOTES:

- * ALL FRAMING MATERIAL TO BE ALUMINIUM
- * ALL ALUMINIUM WELDING IN ACCORDANCE WITH A.S. 1665
- * ALL S.S STEEL WELDING IN ACCORDANCE WITH A.S. 1554
- * ALL WELDS SHALL BE 4mm C.F.W. U.N.O.
- * ALL ALUMINIUM SECTIONS TO BE GRADE 6351-T5.
- * DIMENSION TOLERANCES U.N.O. SHALL BE:
FABRICATION - ± 2.0 MACHINING - UP TO 10mm ±0.1
> 10 TO 100mm ±0.2
> 100mm ± 0.5
ALL ANGLES ±1°
- * CATWALK TO BE NO LESS THAN 500mm ONTO PONTOON AT MEAN
LOW WATER.
- * REMOVE ALL SHARP CORNERS, BURRS & WELD SPATTER.

ROLLER DETAIL

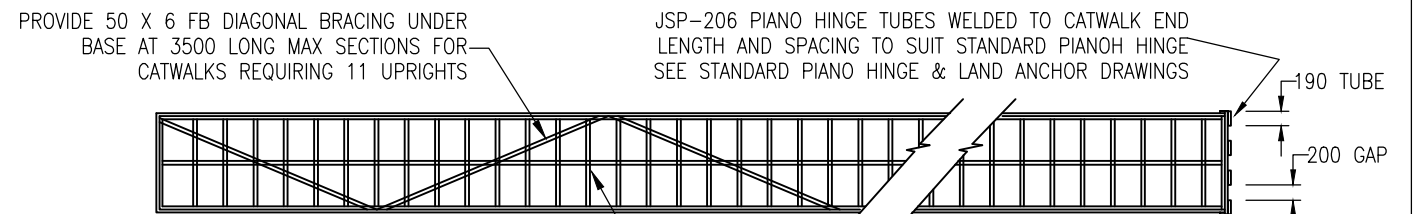
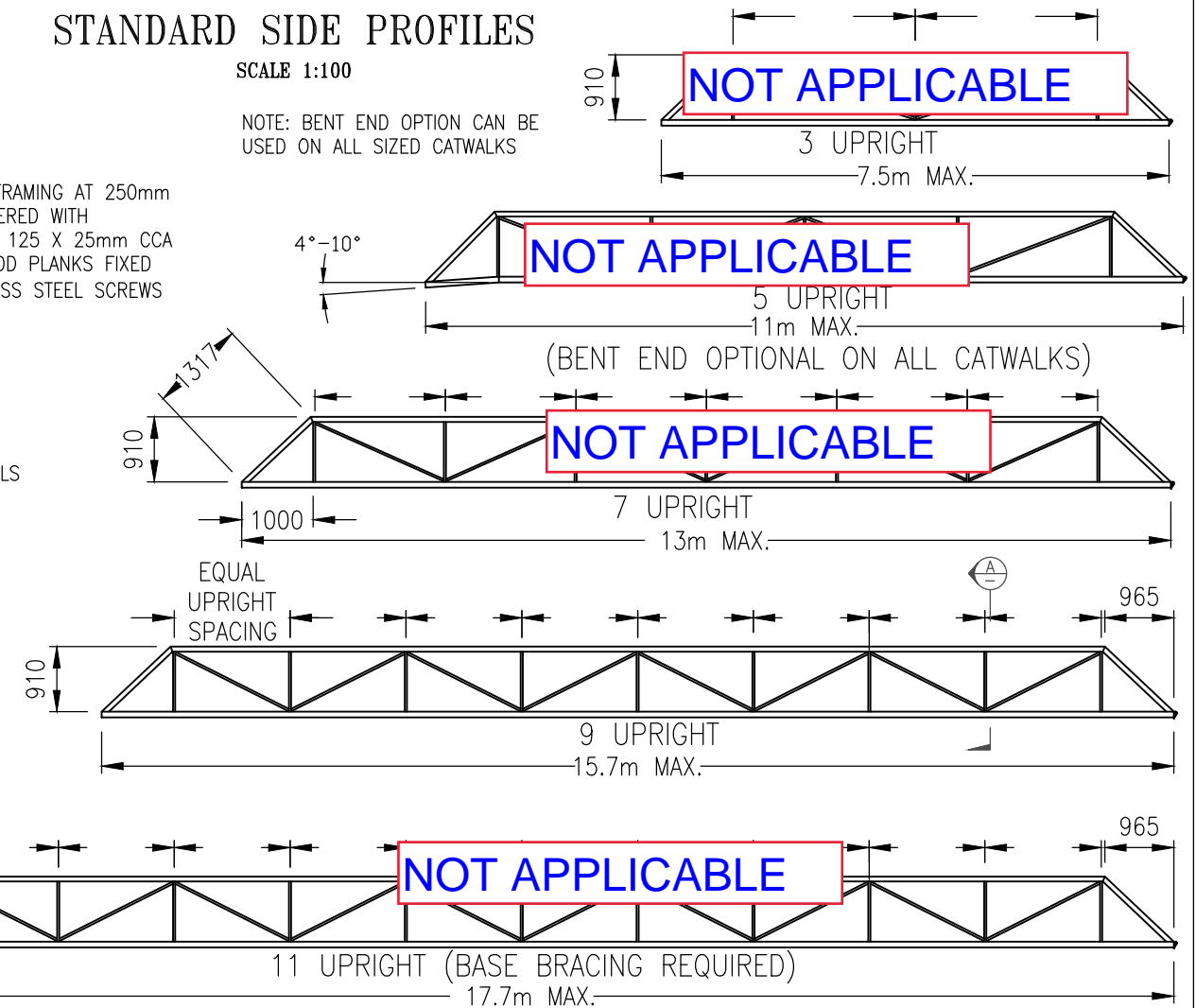
SCALE 1:5



STANDARD SIDE PROFILES

SCALE 1:100

NOTE: BENT END OPTION CAN BE
USED ON ALL SIZED CATWALKS



TYPICAL BASE DETAIL

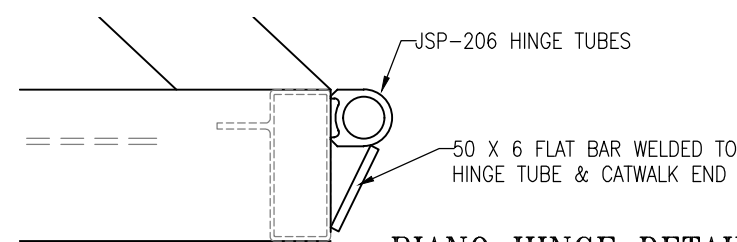
SCALE 1:100

TIMBER DECK

JSP-002 ANGLE CROSS BEAMS @ 600 CRS WITH CENTRAL LONGITUDINAL
(1.5kPa & 2kPa LIVE LOAD ONLY)

ALUMINIUM DECK

50 X 2 SHS CROSS BEAMS @ 400 CRS WITH 3mm AL. PLATE DECK
(NO LONGITUDINAL REQUIRED)



PIANO HINGE DETAIL

SCALE 1:5



REV	DESCRIPTION	BY	DATE	APPD
M	MAX LENGTHS AMENDED	MA	14/1/21	TC
L	ISSUED FOR EDGE ENGINEERS	MA	9/9/20	TC

EDGE CONSULTING ENGINEERS
Crichton EDGE Consulting Engineers
1st Floor, 28 Balaclava St
Woollongabba, QLD 4102
Mob +61 447 950 427
engineering@crichtonedge.com
ABN 66 099 997 985

CHECKED: *[Signature]* RPEQ: 5496 DATE: 14/01/2021

THE MARINA SPECIALIST
TRADING AS ACN 010633119
18 RON PARKINSON CRES
CORBOUND PARK
QLD 4551 AUSTRALIA
PHONE(07) 5492 5925

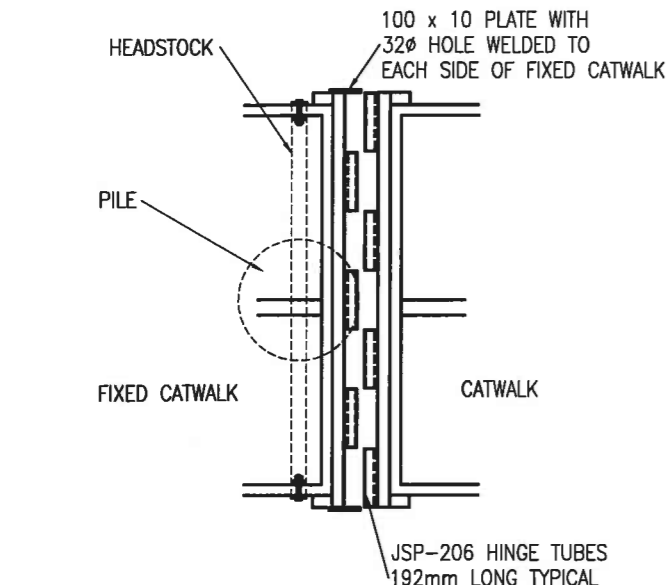
THE JETTY SPECIALIST

CLIENT: BEARE MA
LOT 24 (18) O'BRIEN ST
GRANVILLE

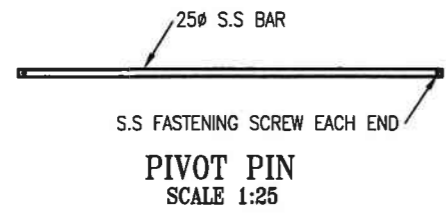
PROJECT: STANDARD DRAWING

TITLE: STANDARD CATWALK CONSTRUCTION

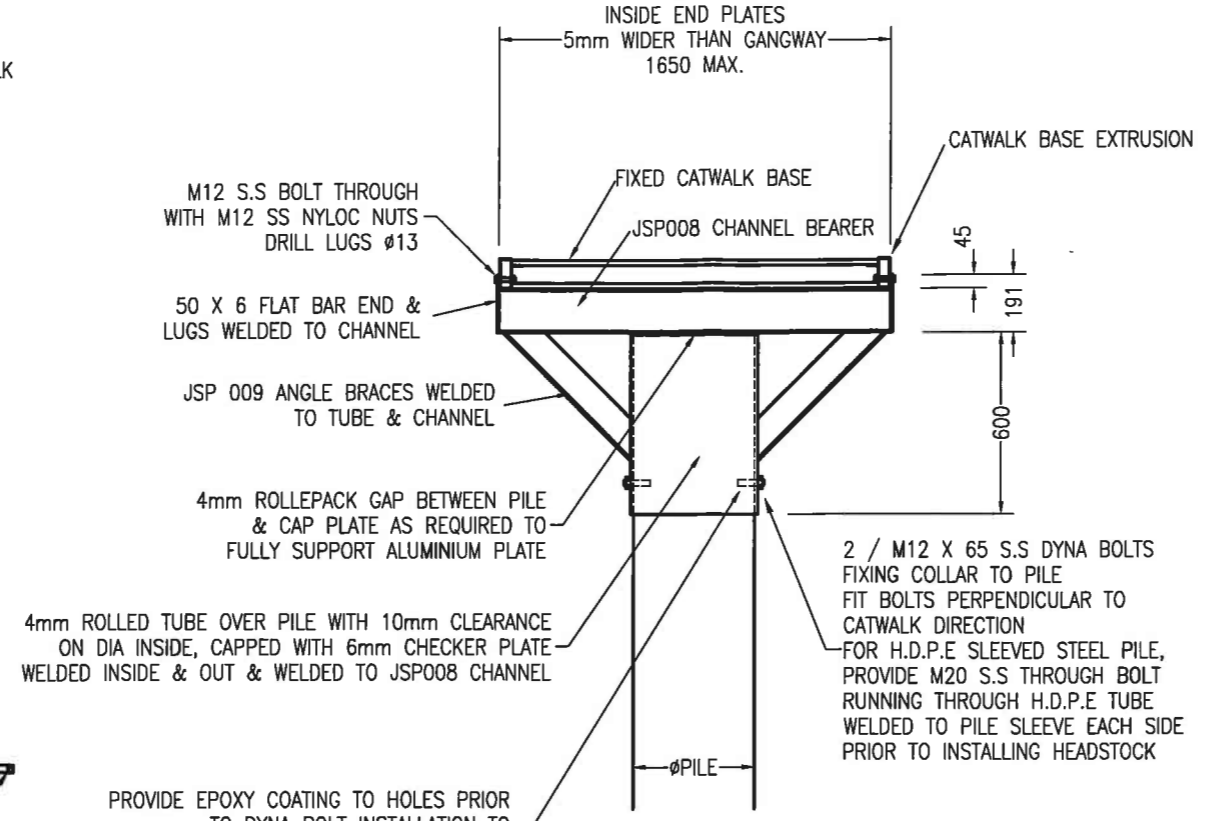
DATE: 12/3/03	UNITS: mm	SCALE: AS SHOWN	SHEET: 1	A3
DRAWN: M.A.	CHECKED: M.A.	APPRD: M.A.	DRG No: JSP-GW-006	REV: M



PIANO HINGE
 PLAN VIEW
 SCALE 1:25

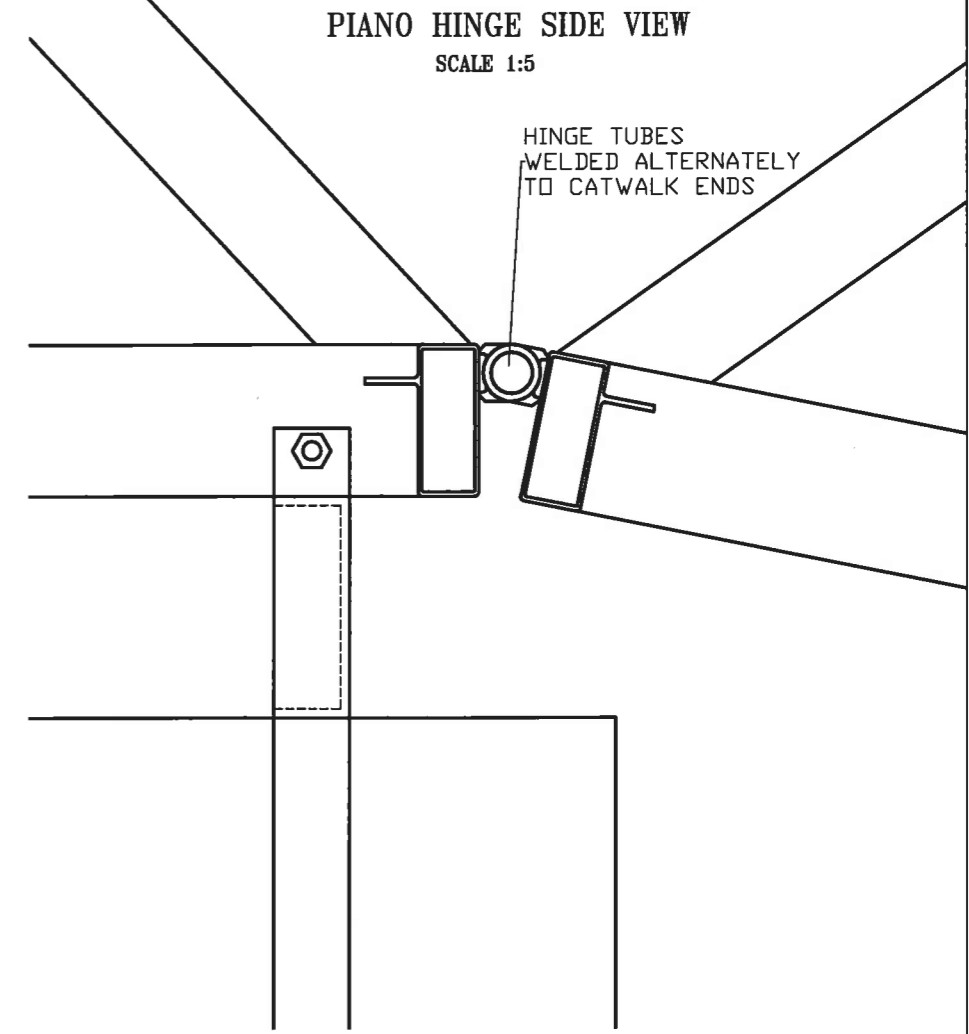


PIVOT PIN
 SCALE 1:25

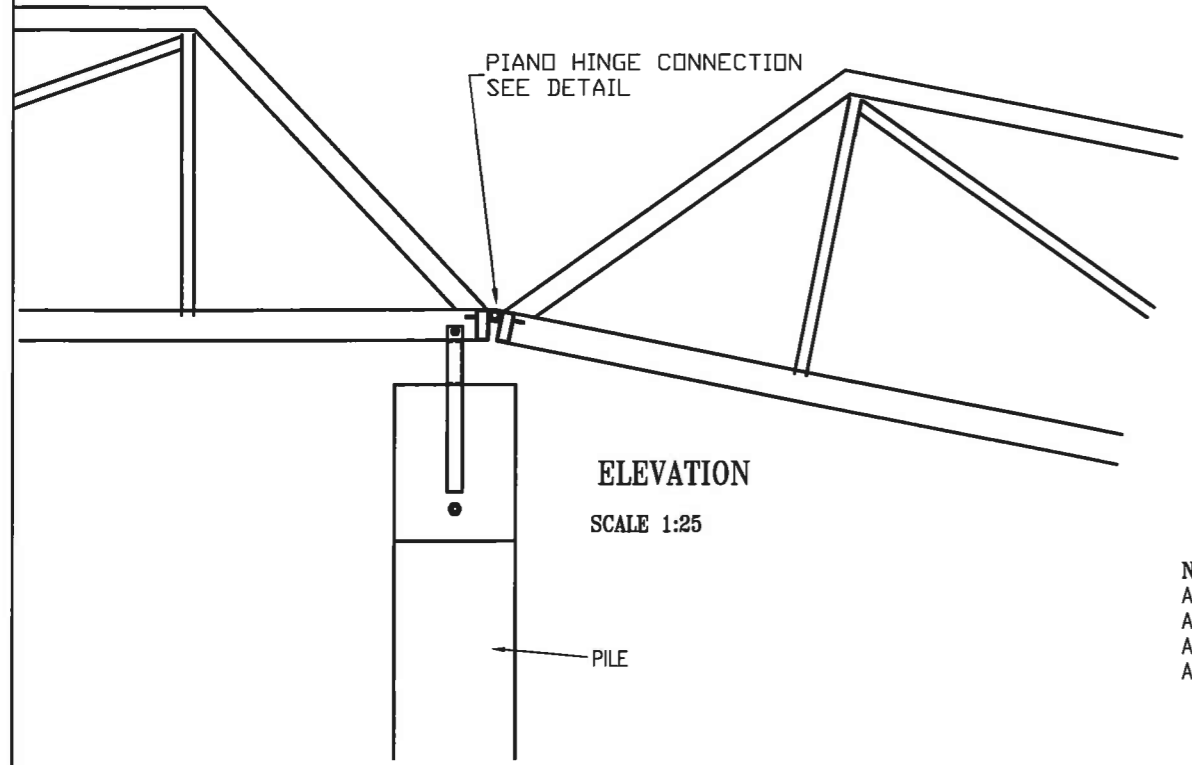


END VIEW
 HEADSTOCK DETAIL
 SCALE 1:25

PROVIDE EPOXY COATING TO HOLES PRIOR TO DYNA BOLT INSTALLATION TO MAINTAIN CORROSION PROTECTION TO PILE REINFORCING



PIANO HINGE SIDE VIEW
 SCALE 1:5



ELEVATION
 SCALE 1:25

THIS DRAWING IS SUBJECT TO COPYRIGHT AND CANNOT BE REPRODUCED IN PART OR FULL OR PASSED ON TO A THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF THE JETTY SPECIALIST.

NOTES:
 ALL ALUMINIUM WORK TO COMPLY WITH AS1664.
 ALL BUTT WELDS TO BE FULL PENETRATION.
 ALUMINIUM TO BE GRADE 6351-T5.
 ALL BOLTS & FITTINGS TO BE 304 OR 316 STAINLESS STEEL.

REV	DATE	AMENDMENT	REQD
E	6/10/10	DYNA BOLTS REPLACE THROUGH BOLT	JSP
D	20/2/07	CHANGE CATWALK EXTRUSIONS	JSP
C	11/3/03	AMEND TO NEW CATWALK EXTRUSION	W/SHOP
B	16/9/02	AMEND HEADSTOCK DETAILS	W/SHOP

THE MARINA SPECIALIST
 TRADING AS ACN 010633119
 2 INDUSTRIAL AVE
 CALOUNDRA
 QLD. AUSTRALIA 4551
 PHONE (07)5492 5925
 FAX (07) 5492 6899

THE JETTY SPECIALIST

Cardno ACN: 051 074 992
 Cardno (Qld) Pty Ltd
 Ph (07) 3369 9822
 Fax (07) 3369 9722
 Email: cardno@cardno.com.au

Level 1, 5 Gardner Close, Milton 4064
 P.O. Box 388, Toowong 4066.

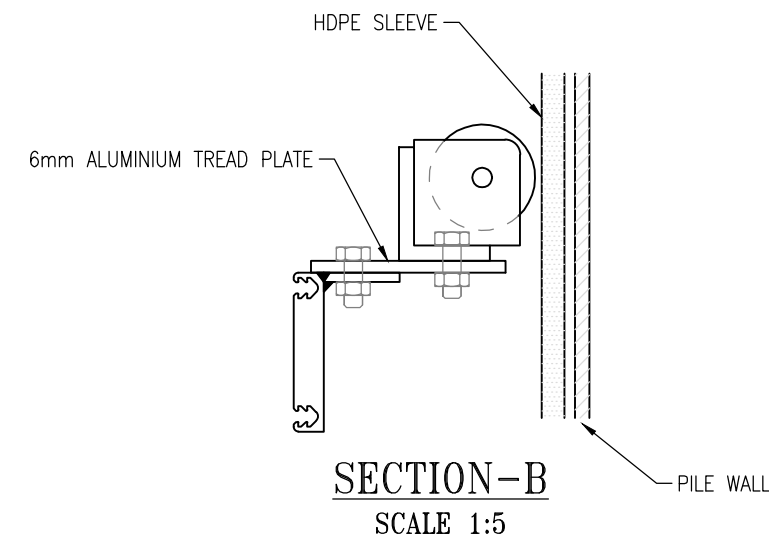
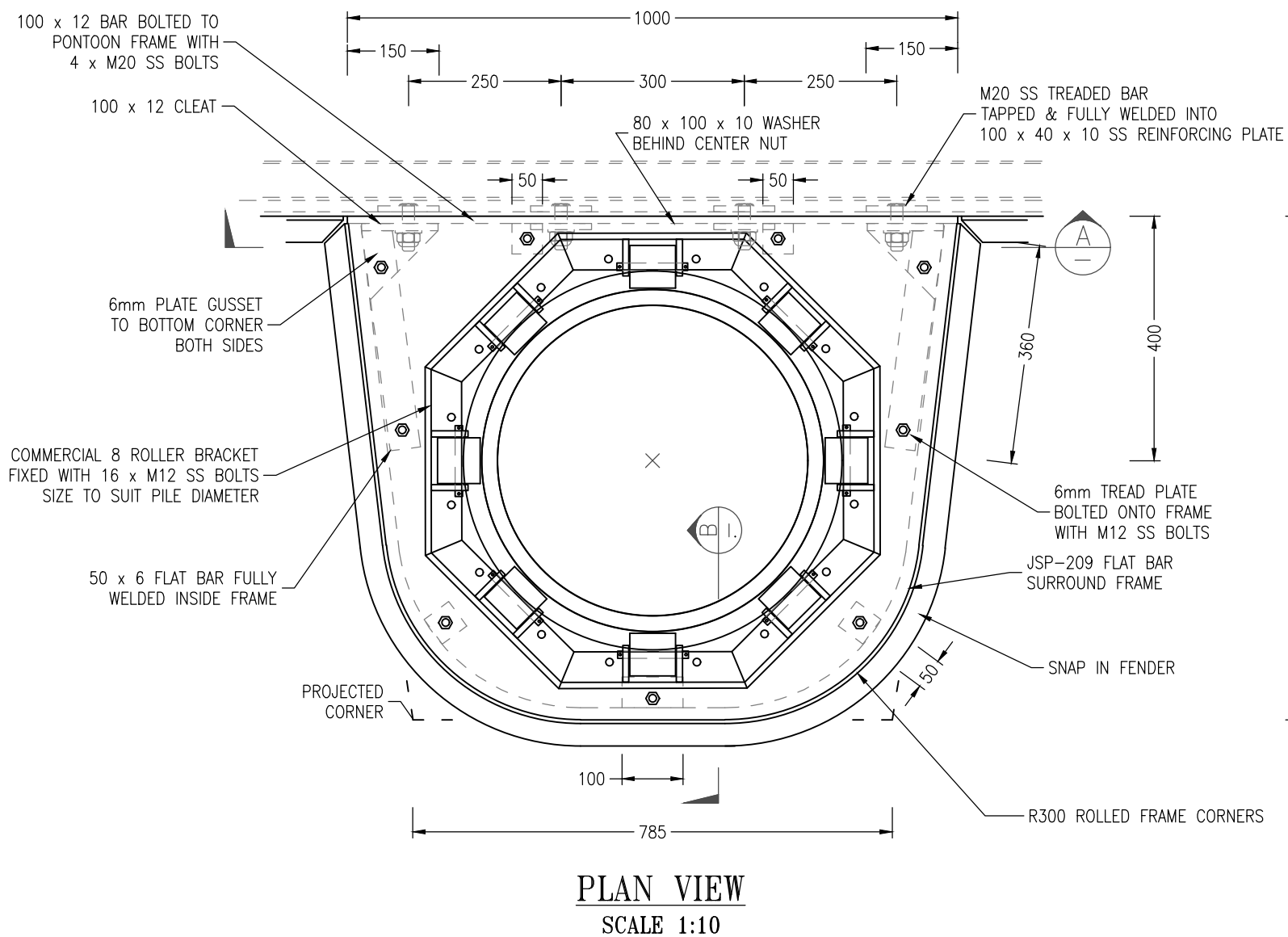
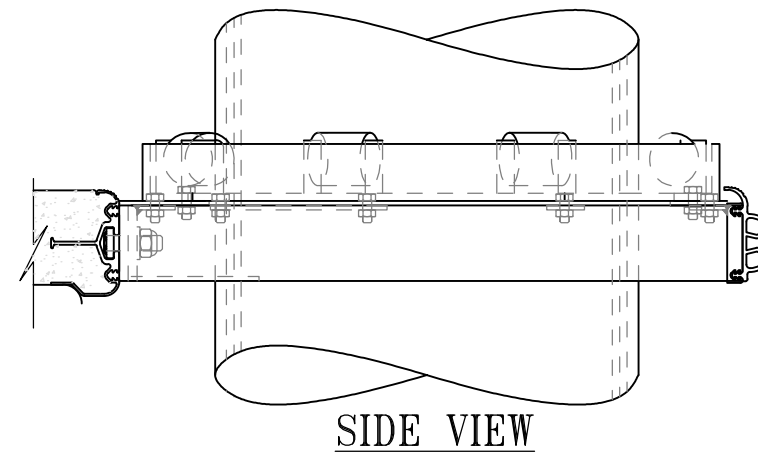
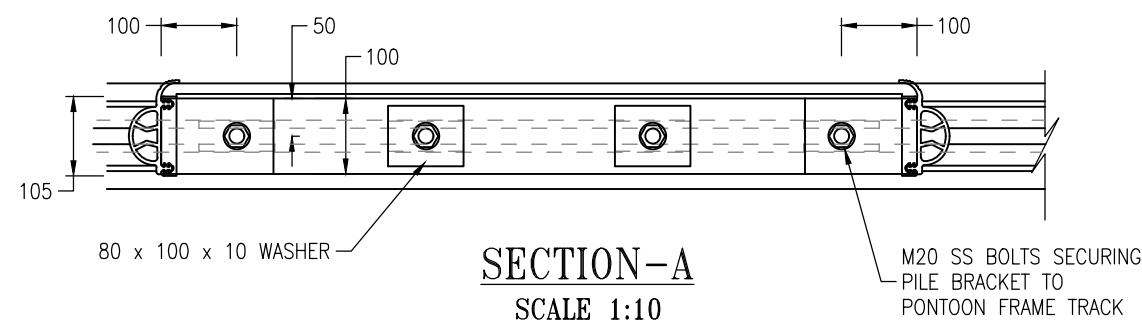
CHECKED: [Signature] R.P.E.Q. DATE: 19.11.10

CLIENT: BEARE MA LOT 24 (18) O'BRIEN ST GRANVILLE	TITLE: HEADSTOCK & CATWALK CONNECTION
PROJECT: STANDARD DRAWING	SCALE: AS SHOWN
	DATE: 25/7/01
	DRAWING NO: JSP-SD-040
	DRAWN: MA
	CHECKED: [Signature]
	DIMENSIONS: MILLIMETERS
	ISSUE: E
	A3

GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 8:10 am, 30/11/2023



NOTES:

- * ALL ALUMINIUM WORK TO COMPLY WITH AS1664
- * EXTRUDED ALUMINIUM TO BE GRADE 6351-T5 OR 6063
- * PLATE ALUMINIUM TO BE GRADE 5083
- * ALL ALUMINIUM WELDING IN ACCORDANCE WITH AS1665
- * ALL WELDS SHALL BE 4 CFW OR THE THICKNESS OF THE THINNER MATERIAL
- * ALL BUTT WELDS TO BE FULL PENETRATION
- * ALL STAINLESS STEEL INCLUDING BOLTS, NUTS WASHERS SHALL BE GRADE 316 (BOLTS TO BE GRADE A4 70)
- * ALL S.S WELDING SHALL BE IN ACCORDANCE WITH 1554
- * BOLT INSULATION SHALL BE ACHIEVED WITH A LIBERAL COATING OF DURALAC OR LANOCOTE APPLIED TO ALL CONTACTING SURFACES
- * REMOVE ALL SHARP CORNERS, BURRS & WELD SPATTER.
- * DIMENSION TOLERANCES UNO SHALL BE:
FABRICATION - ± 2.0 MACHINING - UP TO 10mm ±0.1
> 10 TO 100mm ±0.2
> 100mm ± 0.5
ALL ANGLES ±1'

ULTIMATE LOAD CAPACITY = 63kN

REV	DESCRIPTION	BY	DATE	APPD
C	ISSUED FOR EDGE ENGINEERS	MA	9/9/20	TC
B	NOTES RE S.S ALTERED	MA	24/11/11	

EDGE CONSULTING ENGINEERS
ABN 66 099 997 985

Crichton EDGE Consulting Engineers
1st Floor, 28 Balaclava St
Woollongabba, QLD 4102
Mob +61 447 950 427
engineering@crichtonedge.com

CHECKED: [Signature] RPEQ: 5496 DATE: 17/09/2020

THE MARINA SPECIALIST
TRADING AS ACN 010633119

18 RON PARKINSON CRES
CORBOUND PARK
QLD 4551 AUSTRALIA
PHONE(07) 5492 5925
FAX (07) 5492 6699

THE Jetty SPECIALIST

CLIENT: **BEARE MA**
LOT 24 (18) O'BRIEN ST
GRANVILLE

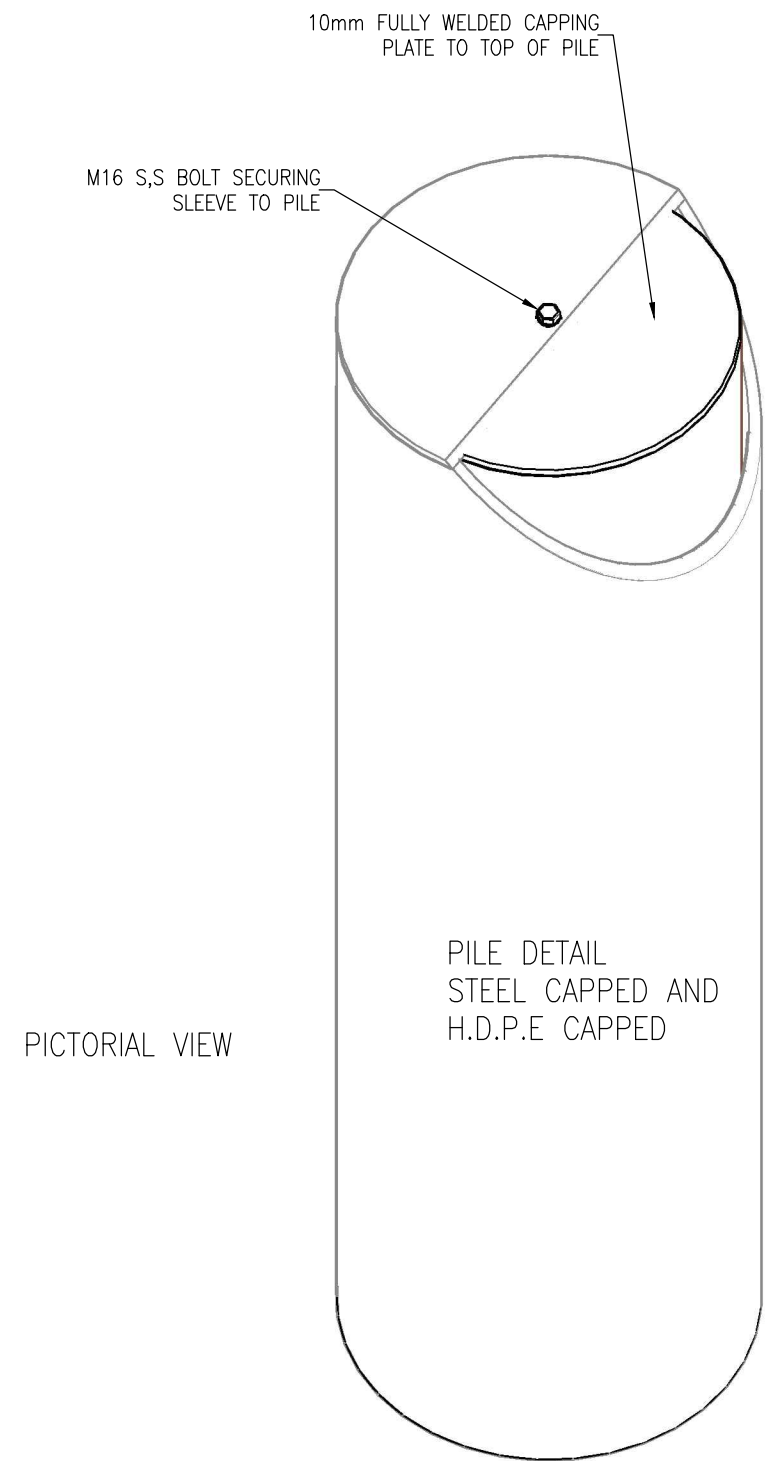
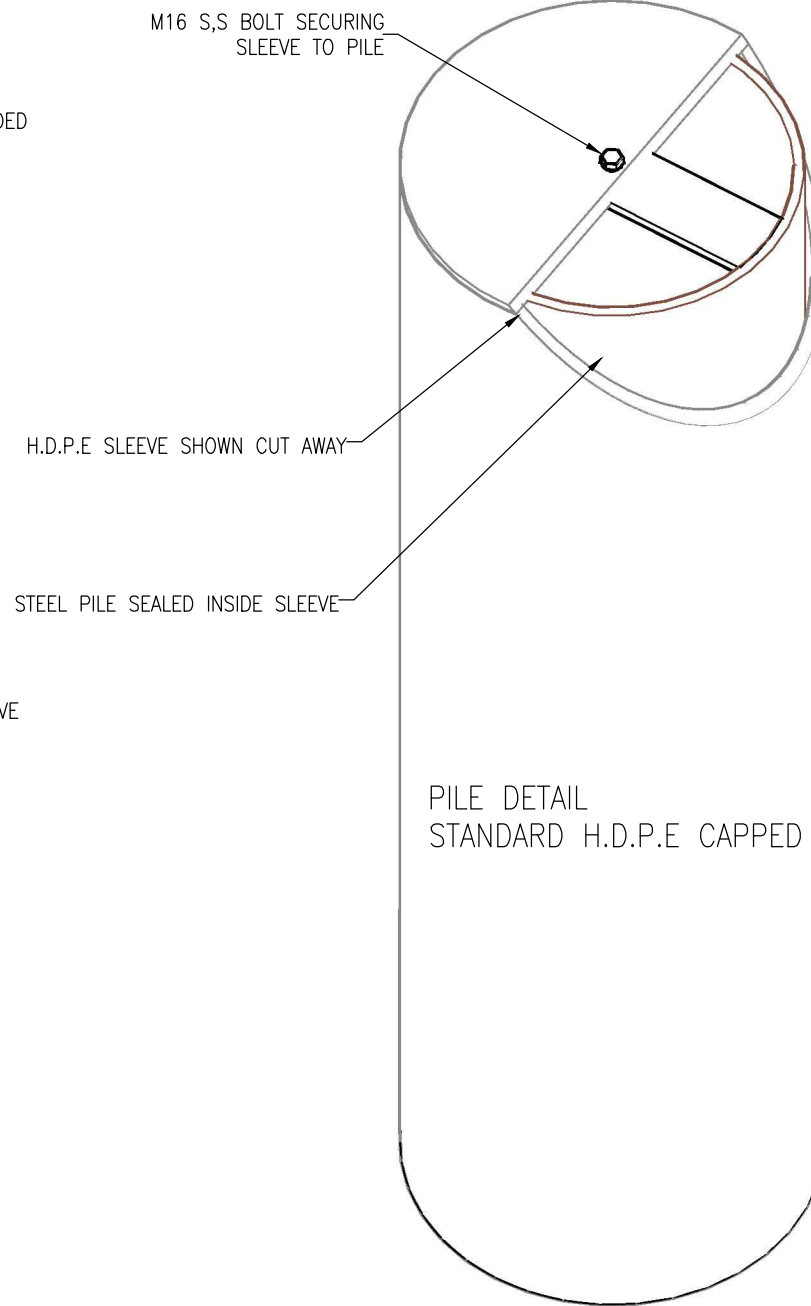
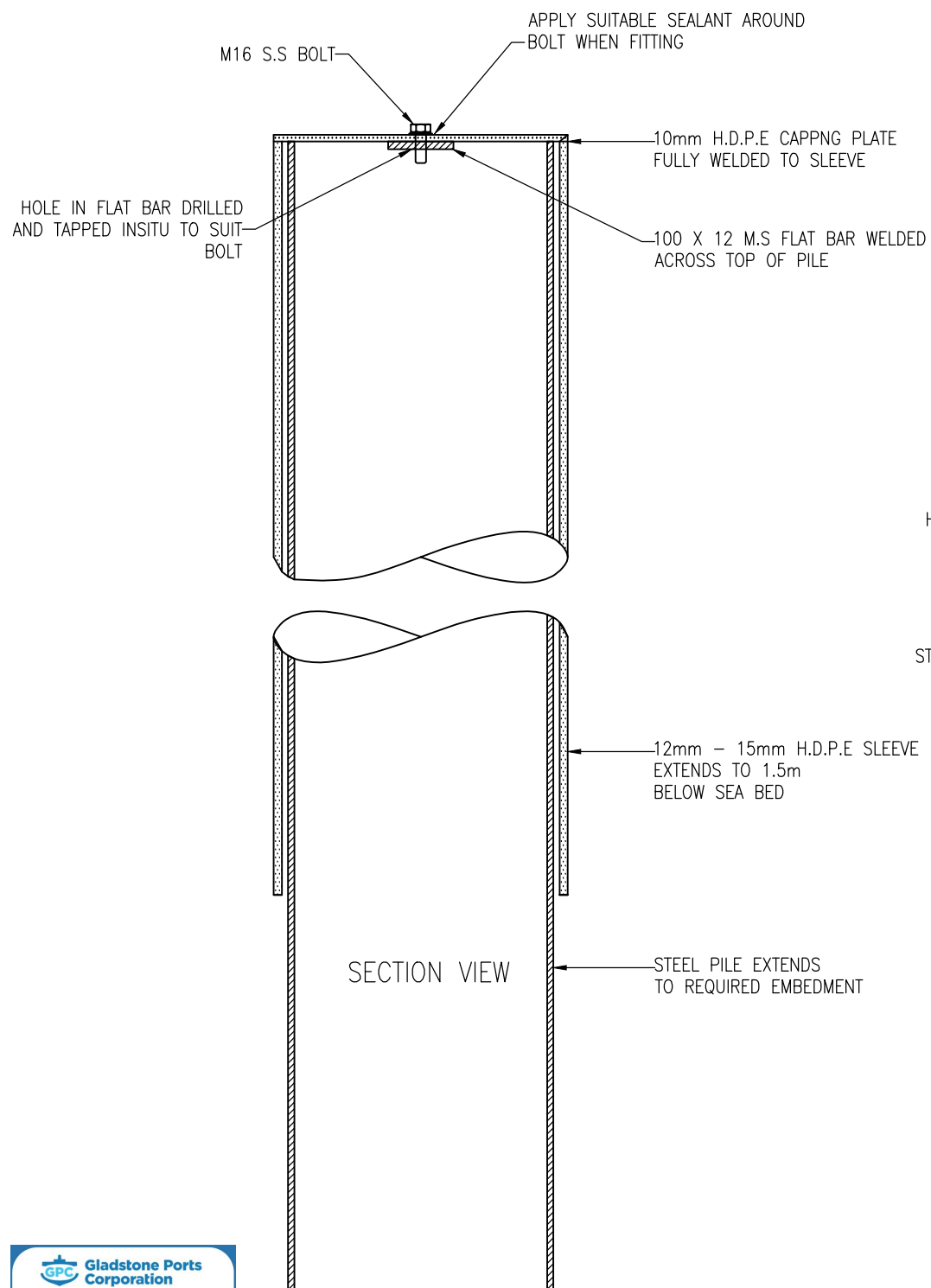
PROJECT: STANDARD DRAWING

TITLE: PILE BRACKET CONSTRUCTION TO SUIT
Ø508 PILES & 8 ROLLER BRACKET

DATE: 28/10/11 UNITS: MM SCALE: 1:10 1:5 SHEET: A3

DRAWN: MA CHECKED: TC APPRD: TC DRG No: JSP-SD-168 REV: C

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REV	DESCRIPTION	BY	DATE	APPD
B	SECURING BOLT & CAPPING UPDATED	MA	14/1/19	

EDGE CONSULTING ENGINEERS
 ABN 66 099 997 985
 Crichton EDGE Consulting Engineers
 P.O Box 6148
 Woollongabba, QLD 4102
 Ph: +61 7 3367 3570
 admin@crichtonedge.com

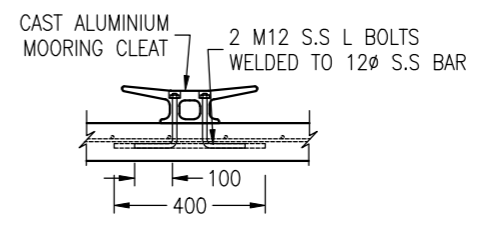
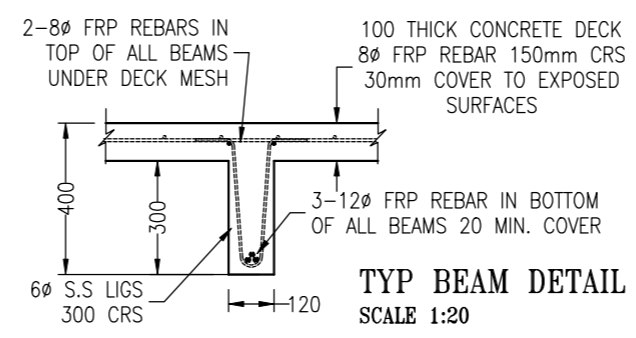
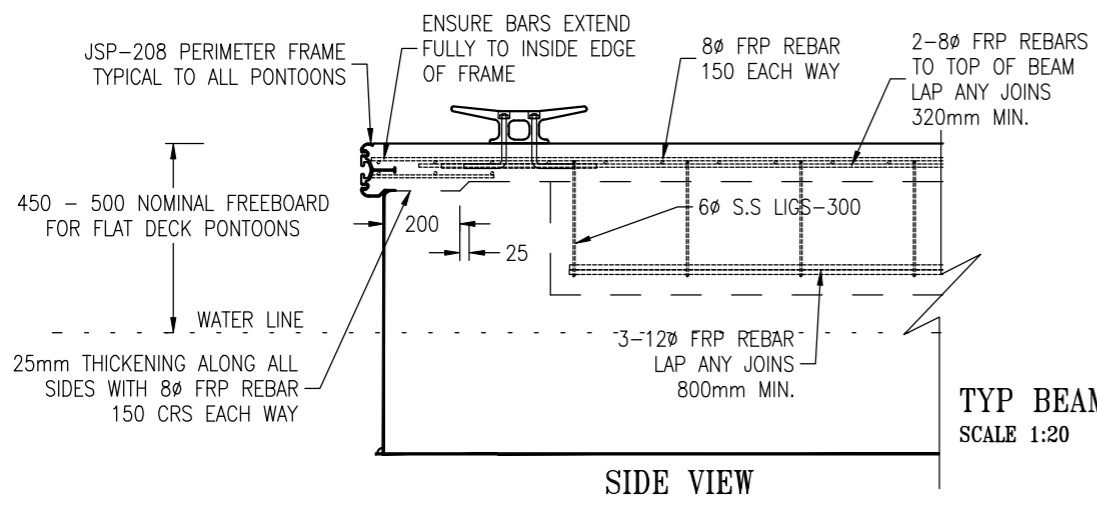
CHECKED: *[Signature]* RPEQ: 5496 DATE: 17/09/2020

THE MARINA SPECIALIST
 TRADING AS THE Jetty SPECIALIST
 ACN 010633119
 18 RON PARKINSON CRES
 CORBOUND PARK
 QLD 4551 AUSTRALIA
 PHONE(07) 5492 5925

CLIENT: BEARE MA
 LOT 24 (18) O'BRIEN ST
 GRANVILLE
 PROJECT: STANDARD DRAWING

TITLE: STEEL PILE & H.D.P.E SLEEVE DETAIL

DATE: 6/11/06	UNITS: MM	SCALE: 1:10	SHEET: 1	A3
DRAWN: MA	CHECKED:	APPRD:	DRG No: JSP-SC-045	REV: B



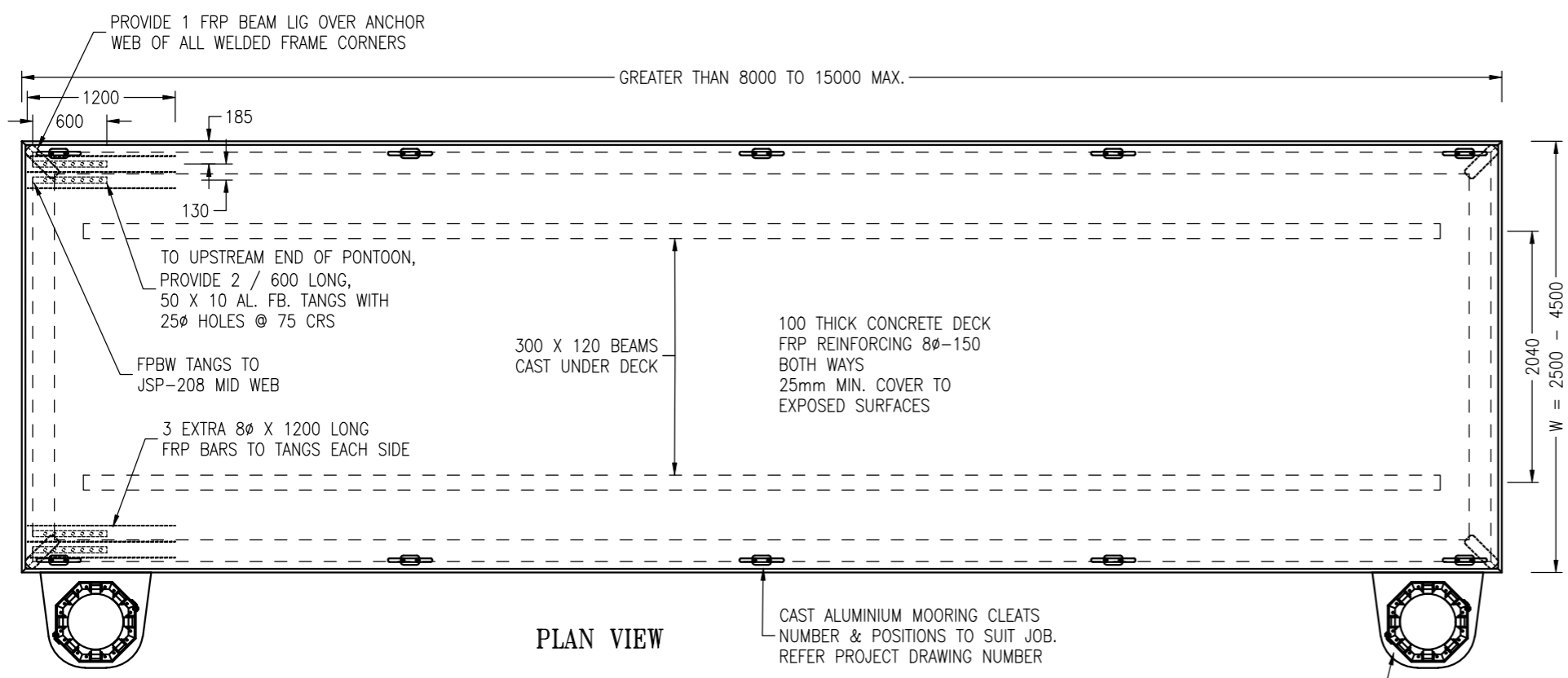
TYP CLEAT DETAIL
SCALE 1:20

NOTES:
 All concrete work to comply with AS3600. All concrete to be grade N50 (50MPa). Cover to reinforcement to exposed surfaces to be 30mm minimum.
 Reinforcing to be minimum of 8mm FRP bars at 150mm centres in each direction U.N.O. All 8Ø bar laps to be 320mm. All 12Ø bar laps to be 480mm.

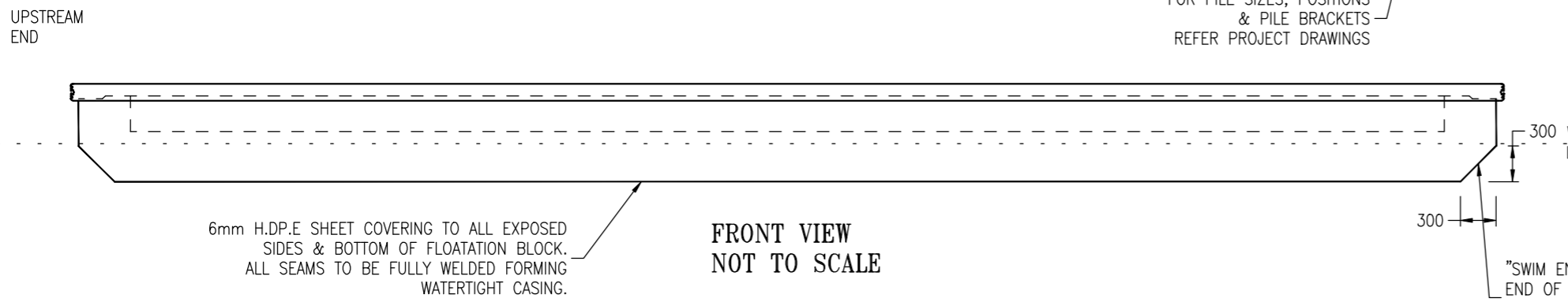
All aluminium work to comply with AS1664. All welds to be 5mm CFW. All butt welds to be full penetration. Aluminium to be grade 6351-T5. Surface of aluminium in contact with concrete to be coated with zinc chromate primer (8-13 microns) or equivalent. Fabrication tolerance ± 5mm. All bolts and fittings to be 316 stainless steel. Flotation to comprise of grade SL expanded polystyrene foam. Pontoon to comply with all relevant Australian Standards.

MAXIMUM DESIGN LIVE DECK LOADING: 3.0 kPa. (Structural & floatation)

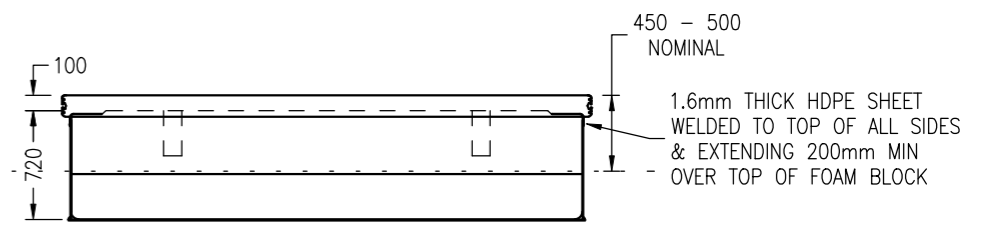
MAXIMUM WAVE HEIGHT: 600mm.



PLAN VIEW



FRONT VIEW
NOT TO SCALE



END VIEW

"SWIM END" PROFILE TO EACH END OF FLOATATION BLOCK TO REDUCE DRAG DURING STRONG TIDAL OR FLOOD CURRENTS

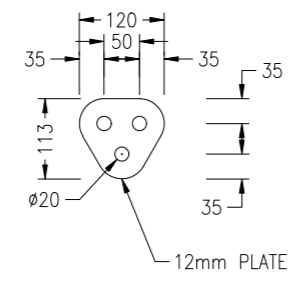
FOR CONSTRUCTION

							THE MARINA SPECIALIST TRADING AS ACN 010633119 18 RON PARKINSON CRES CORBOUND PARK QLD 4551 AUSTRALIA PHONE(07) 5492 5925		CLIENT: STANDARD DRAWING		TITLE: TJS STANDARD FLOOD PONTOON (SWIM END)		SHEET SIZE: A3	
					PROJECT MANAGEMENT ENGINEERING PLANNING				PROJECT: STANDARD DRAWING		DRAWING No: D-TJS-SD-04-002		SHEET: 1	
0	FOR CONSTRUCTION	MA	15/11/22	TC	CHKD	R.P.E.Q.	DATE:					REV: 0		
A	FOR REVIEW	MA	2/11/22	TC		6807	12.12.2022							
REV	DESCRIPTION	DRN BY	DATE	APPD										

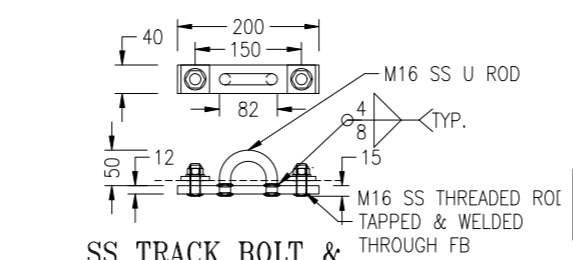
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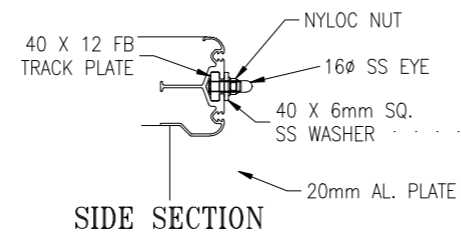
TOP OF PILE R.L 6.1m



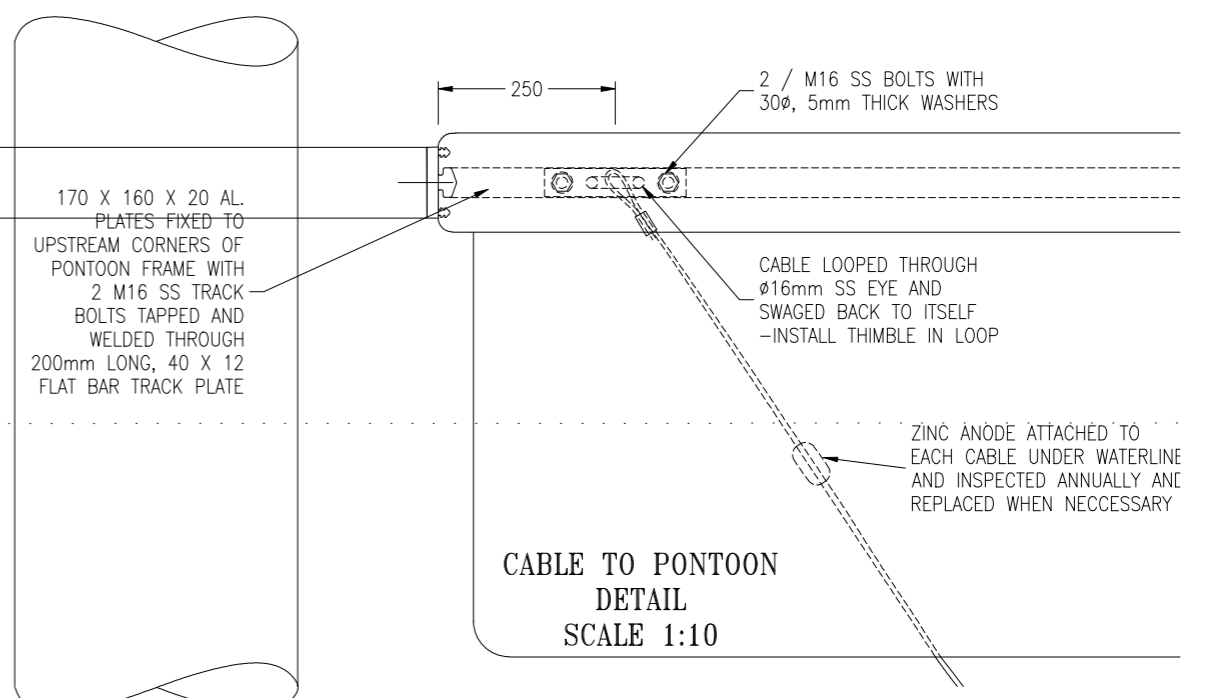
12mm SS DELTA PLATE DETAIL
SCALE 1:10



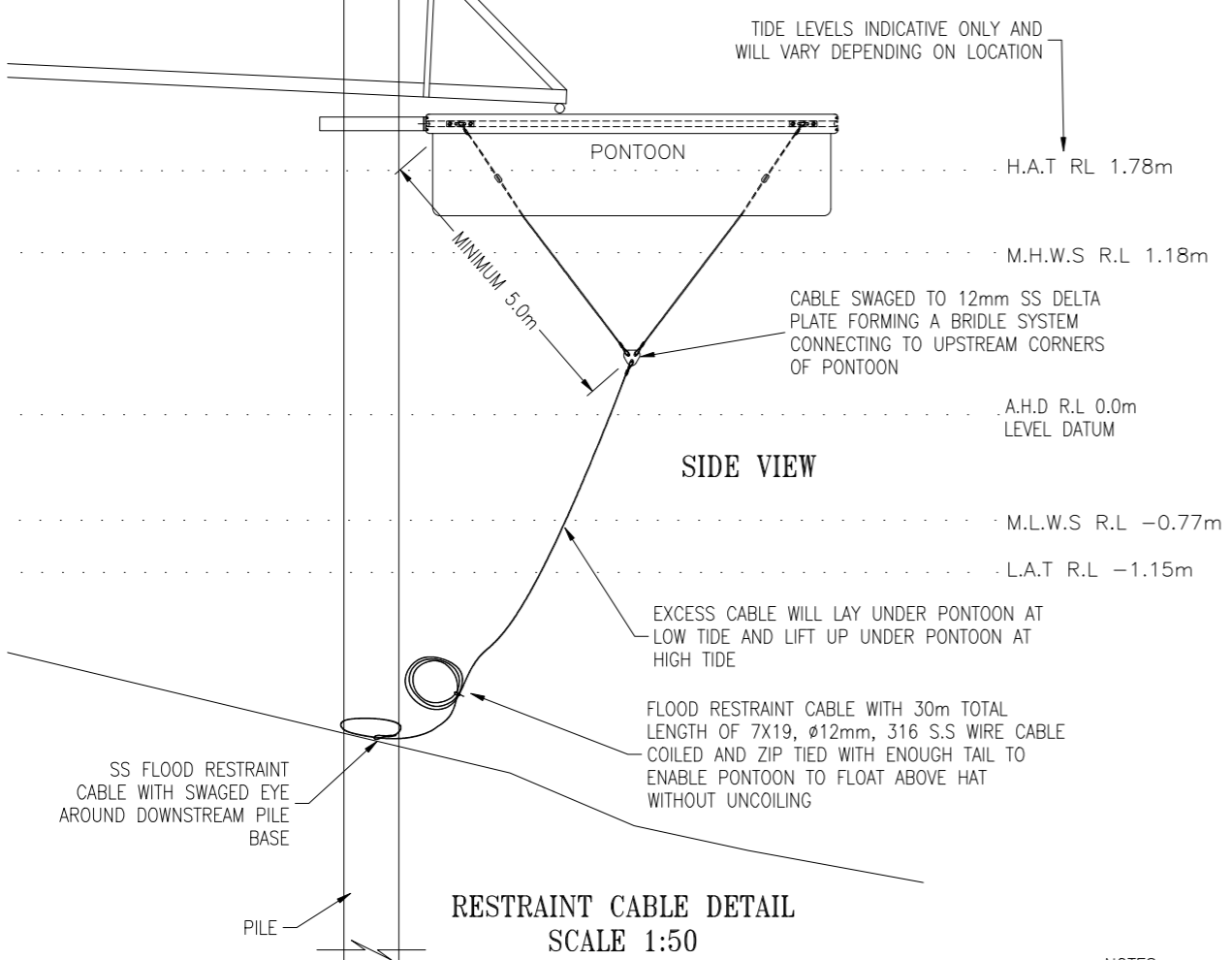
SS TRACK BOLT & CABLE EYE DETAIL



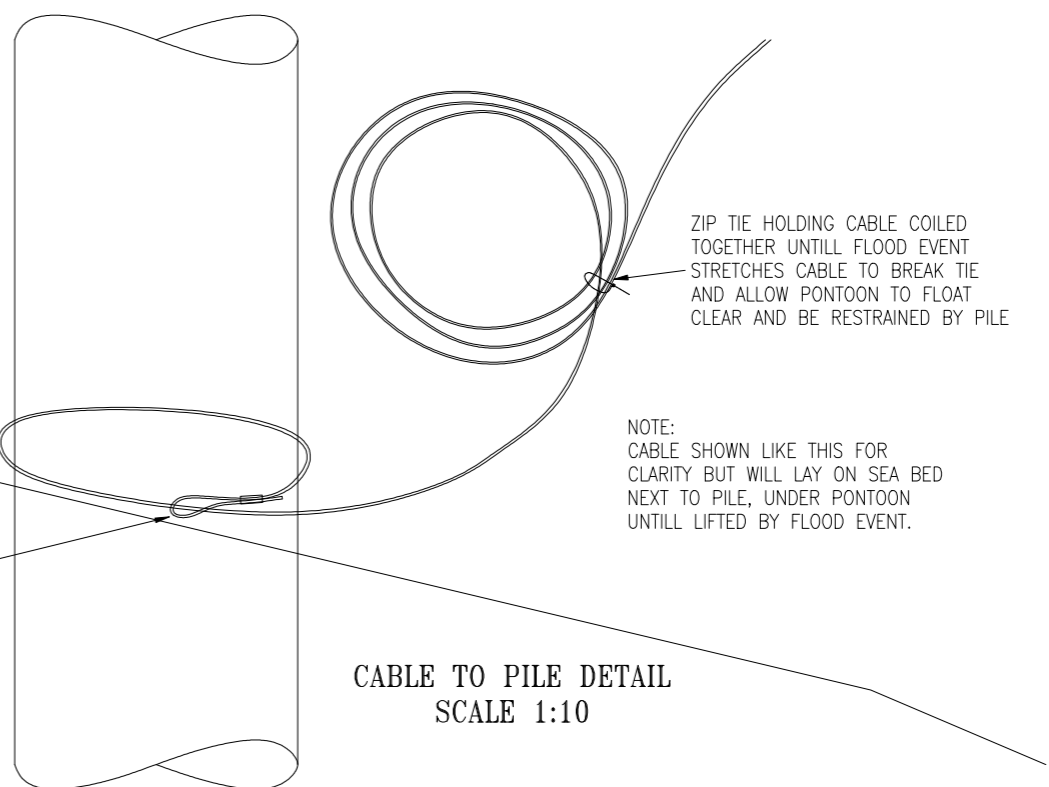
SIDE SECTION



CABLE TO PONTOON DETAIL
SCALE 1:10



RESTRAINT CABLE DETAIL
SCALE 1:50



CABLE TO PILE DETAIL
SCALE 1:10

TIDE LEVELS INDICATIVE ONLY AND WILL VARY DEPENDING ON LOCATION

CABLE SWAGED TO 12mm SS DELTA PLATE FORMING A BRIDLE SYSTEM CONNECTING TO UPSTREAM CORNERS OF PONTOON

EXCESS CABLE WILL LAY UNDER PONTOON AT LOW TIDE AND LIFT UP UNDER PONTOON AT HIGH TIDE

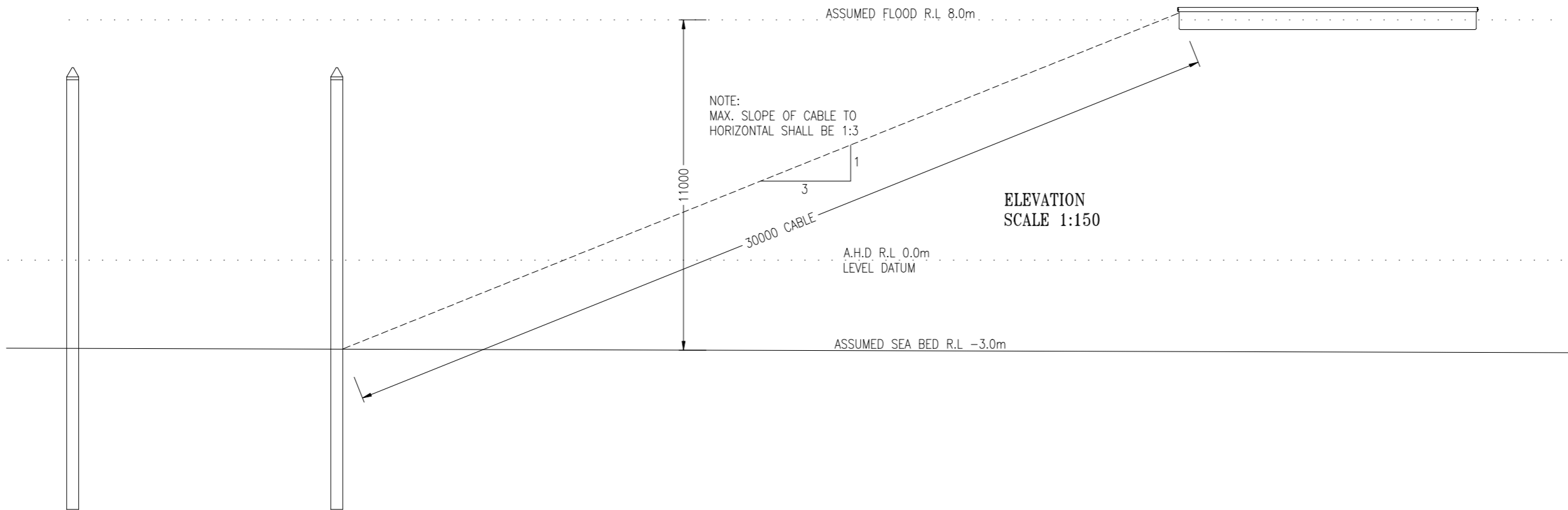
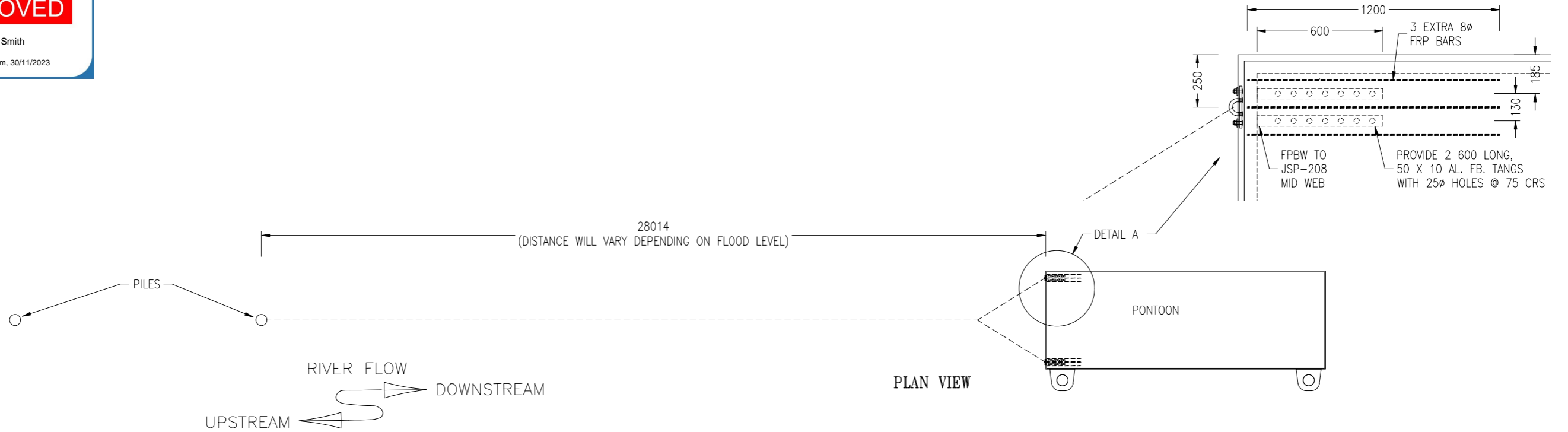
FLOOD RESTRAINT CABLE WITH 30m TOTAL LENGTH OF 7X19, Ø12mm, 316 S.S WIRE CABLE COILED AND ZIP TIED WITH ENOUGH TAIL TO ENABLE PONTOON TO FLOAT ABOVE HAT WITHOUT UNCOILING

SS FLOOD RESTRAINT CABLE WITH SWAGED EYE AROUND DOWNSTREAM PILE BASE

NOTES:
MAXIMUM ALLOWABLE UNFACTORED HORIZONTAL LOAD CAN BE CARRIED BY THE FLOOD RESTRAINT CABLE SYSTEM IS 40KN.
ALUMINIUM PLATES SHALL BE GRADE 5083-H321 U.N.O.
STAINLESS STEEL BOLTS SHALL BE GRADE A4 70 U.N.O.
SEPERATION TO BE PROVIDED BETWEEN DISSIMILAR METAL CONTACTS.
ALL ALUMINIUM WORK TO COMPLY WITH AS/NZ 1664 STANDARDS.

GPC Gladstone Ports Corporation
APPROVED
Name: Trudi Smith
Date: 8:10 am, 30/11/2023

				ISSUE FOR CONSTRUCTION	
				CLIENT:	TITLE: PONTON FLOOD RESTRAINT CABE
PROJECT MANAGEMENT ENGINEERING PLANNING		18 RON PARKINSON CR BELLS CREEK QLD 4551 1300 260 878 www.tjsmarine.com.au home@tjsmarine.com.au		PROJECT: STANDARD DRAWING	DRAWING No: D-TJS-SD-08-010
C	ISSUE FOR CONSTRUCTION	MA	12/8/22	TC	SHEET SIZE A3
REV	DESCRIPTION	DRN BY	DATE	APPD	SHEET: 1
					REV: C



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ISSUE FOR CONSTRUCTION

									CLIENT:	TITLE: FLOOD RESTRAINT DIAGRAM	SHEET SIZE: A3
					PROJECT MANAGEMENT ENGINEERING PLANNING		18 RON PARKINSON CR BELLS CREEK QLD 4551 1300 260 878 www.tjsmarine.com.au home@tjsmarine.com.au		PROJECT: STANDARD DRAWING	DRAWING No: D-TJS-SD-08-011	SHEET: 2
C	ISSUE FOR CONSTRUCTION	MA	12/8/22	TC	CHECKED: <i>[Signature]</i>	RPEQ: 6807	DATE: 18.08.22				REV: C
REV	DESCRIPTION	DRN BY	DATE	APPD							