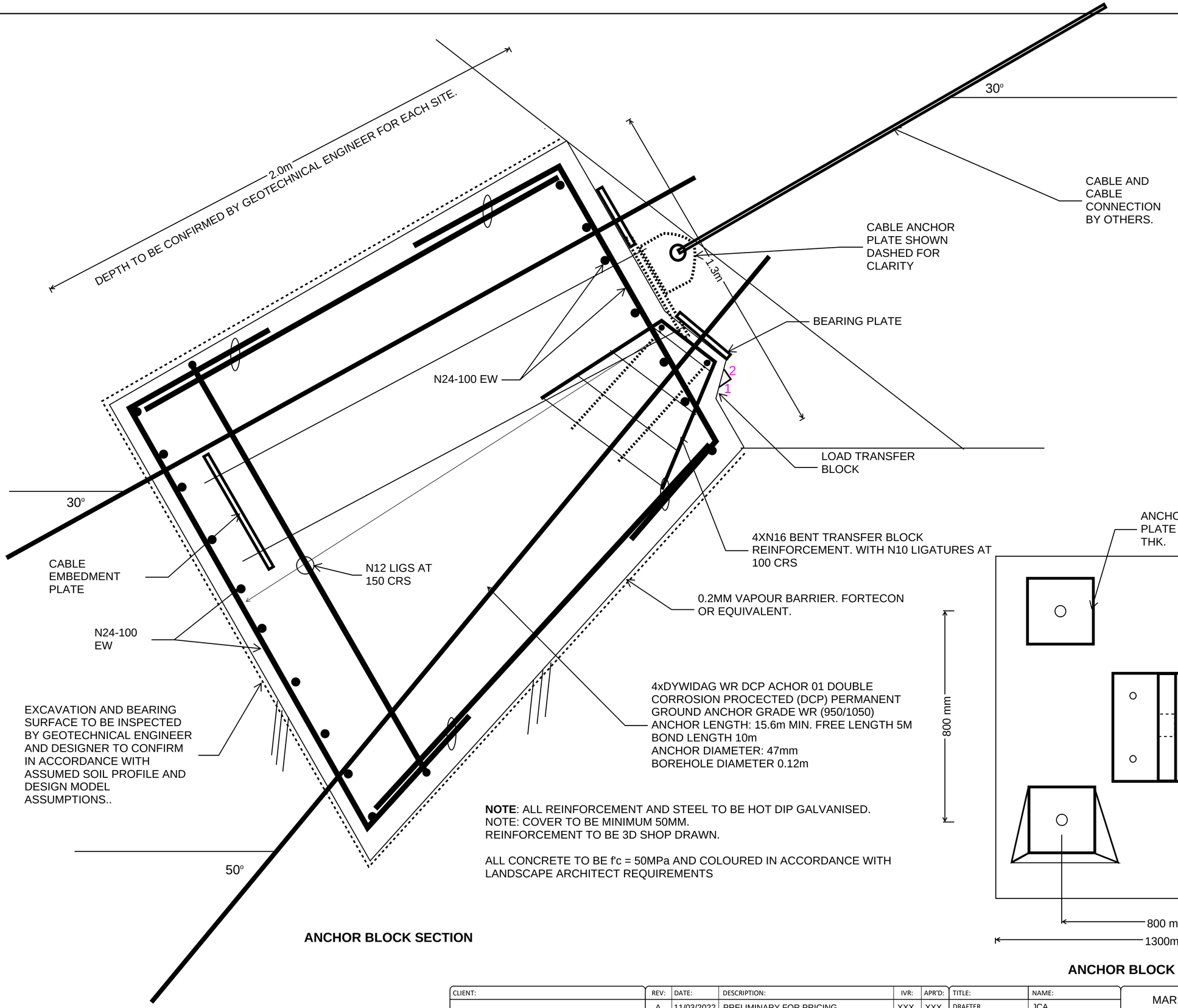
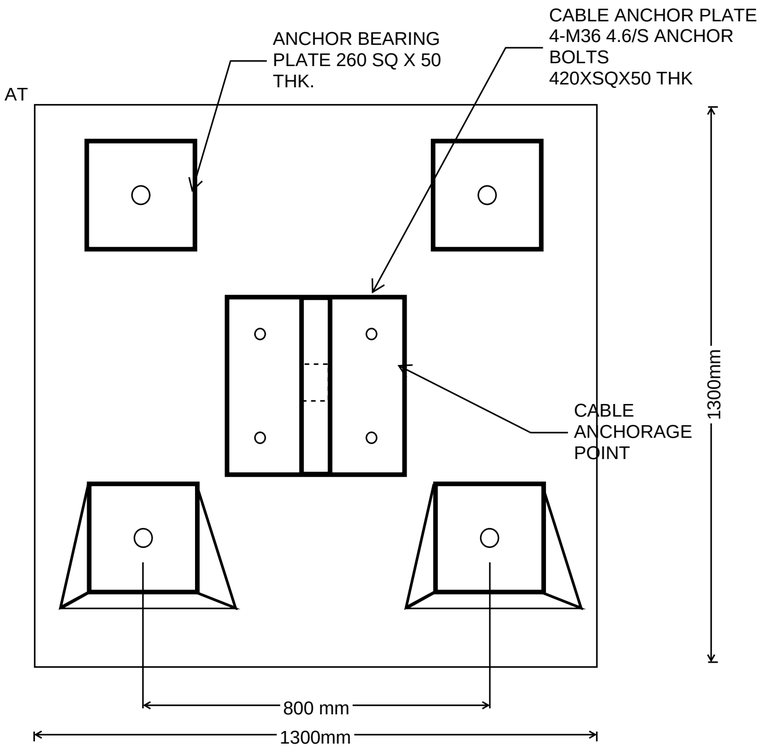


ANCHOR BLOCK SECTION

NOTE: ALL REINFORCEMENT AND STEEL TO BE HOT DIP GALVANISED.
NOTE: COVER TO BE MINIMUM 50MM.
REINFORCEMENT TO BE 3D SHOP DRAWN.

ALL CONCRETE TO BE f'c = 50MPa AND COLOURED IN ACCORDANCE WITH LANDSCAPE ARCHITECT REQUIREMENTS



ANCHOR BLOCK ELEVATION

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	C	11/03/2022	PRELIMINARY FOR PRICING			DESIGNER	JCA/CMW
						DESIGN CHECK	XXX
PRINT IN COLOUR:						PROJECT MANAGER	XXX

MARION COASTAL WALKWAY UPGRADE

HALLETT COVE, SA 5158

CELL 5/6

INNOVIS Agile Outcomes

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Physical Properties

Grade	(Mpa)	WR (950 / 1050)					E (835 / 1035)		
Diameter	(mm)	26.5	32	36	40	47	57	65	75
Ultimate	(kN)	579	844	1069	1319	1820	2671	3447	4572
Yield	(kN)	524	764	967	1194	1652	2155	2780	3690
Area	(mm2)	552	804	1018	1257	1735	2581	3331	4418

Dimensions (mm)

Bar Diameter		26.5	32	36	40	47	57	65	75
Bearing plate	A x T	180x40	20x45	220x50	240x55	260x50	330x70	370x75	420x85
Pipe OD	Dp	64	70	76	76	114	127	127	168.3
Nut Length	Ln	60	72	75	83	105	120*	130*	145*
Stressing Length	Ls	90	100	110	130	135	120	130	145
Capped Length	Lsc	210	210	210	240	280	280	280	280
Smooth Sheat OD	Ds	58	63	73	76	85	110	110	125
Corrugated Sheath OD	Dc	50	56	65	65	80	100	100	114

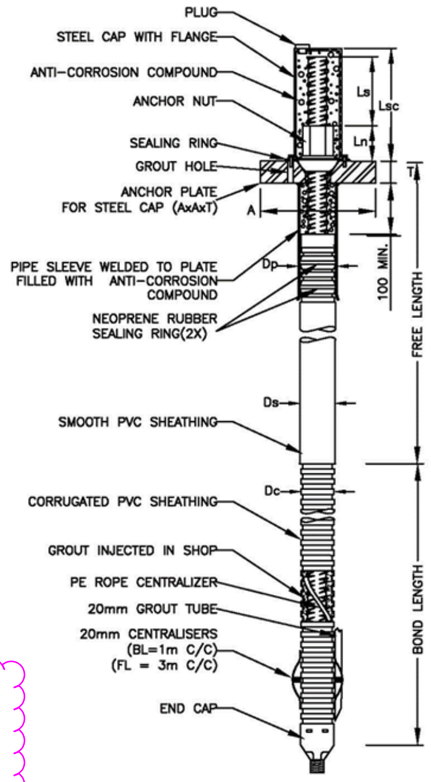
* Hex Nut

CHARACTERISTICS

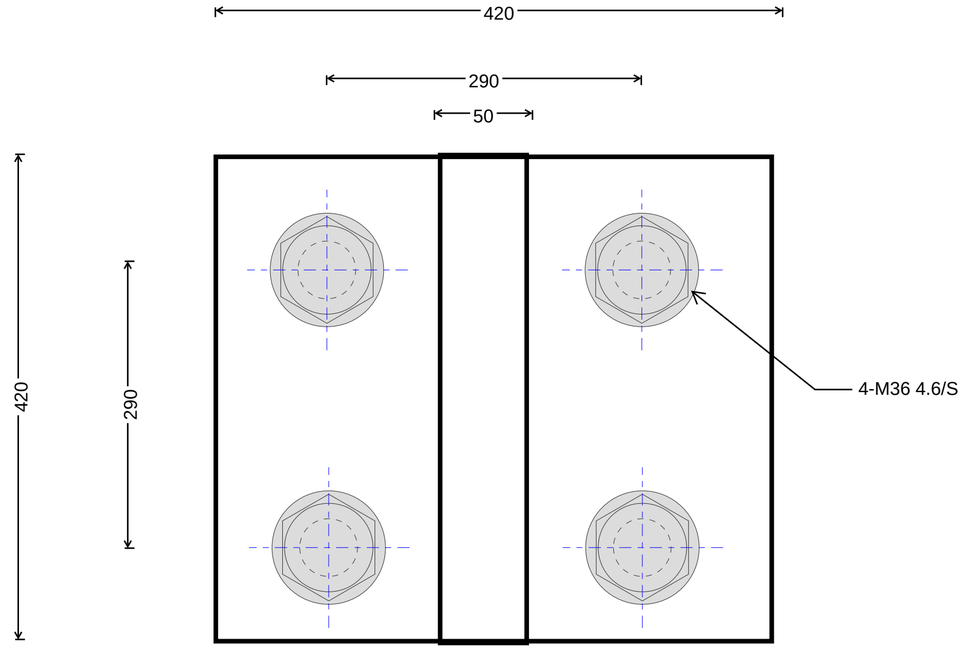
1) POST–TENSIONING TENDONS ARE DSI THREADBAR, DOUBLE CORROSION PROTECTED SYSTEM, SHOP ASSEMBLED AND GROUTED.
2) THREADBARS ARE PROOF STRESSED AND STRESS RELEIVED.
3) SHOP GROUT: CEMENTITIOUS NEAT LEAN GROUT W/O AGGREGATES,
   MAXIMUM WATER CEMENT RATIO=0.36 (BY WEIGHT),
   CEMENT: GENERAL PURPOSE TYPE GP
   ADDITIVE: VISCOCRETE 10, 0.25% (BY WEIGHT).
4) DURING TENSIONING, DRAW IN AT NUT=1mm & COUPLER SLIP=1.5mm.

INSTALLATION PROCEDURE

1) DRILL HOLE; GROUT AND RE–DRILL IF REQUIRED.
2) ASSEMBLE PRE–GROUTED BARS WITH PLATES, NUTS, GROUT TUBES, CENTRALISERS AND COUPLERS (IF APPLICABLE) AND INSERT ANCHOR IN HOLE.
3) TREMIE GROUT ALONG ENTIRE ANCHOR LENGTH.
4) ONCE GROUT REACHES REQUIRED STRENGTH, TEST ACCORDING TO SPECIFICATIONS.
5) INSTALL PROTECTIVE CAPS (IF REQUIRED).

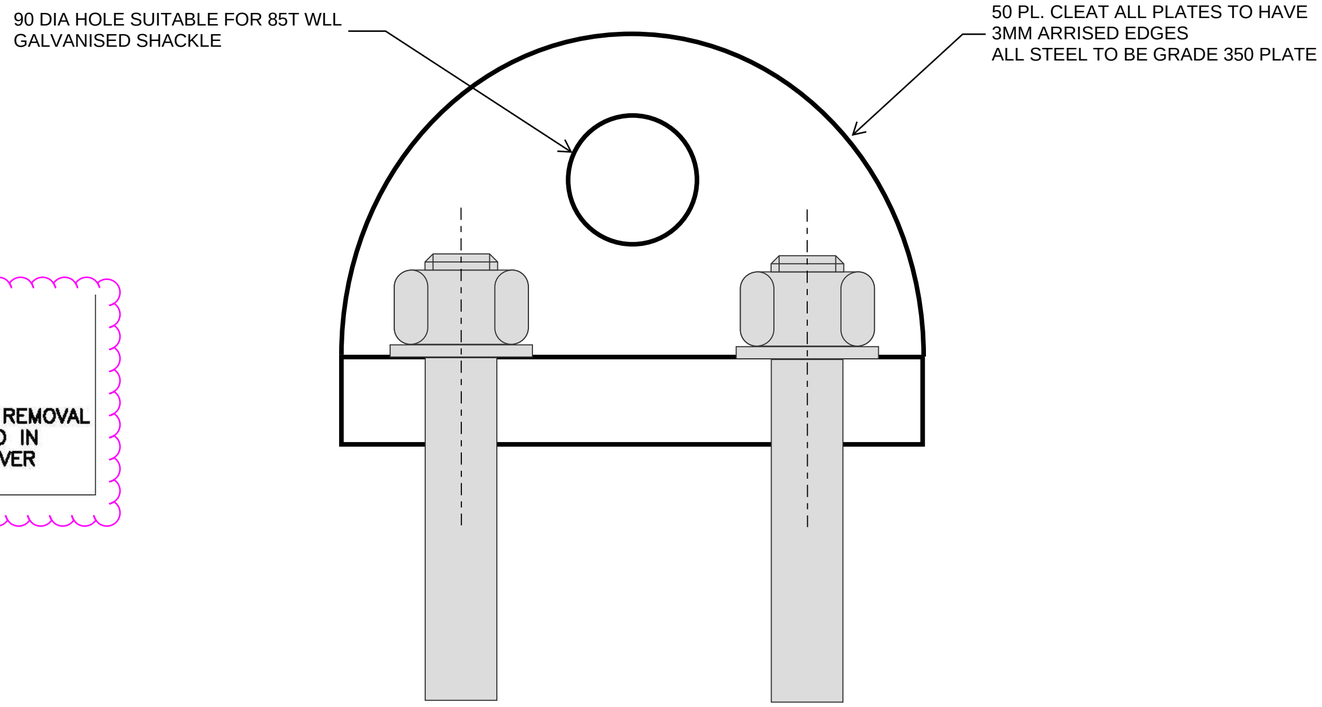


ANCHOR–DETAILS



ANCHOR PLATE

NOTE:
1. Protective caps are required. Protective caps are to be replaced at every testing of the anchor.
2. All bars to be pretensioned (to 50kN) and load tested periodically. Multiple retention phases are expected during the 12 month construction period to ensure pretension loading due to the poor ground near the surface of the anchor block. Periodic lift tests will be required per 5 years of installation.
3. Refer to manufacturers specifications for installation.
4. Refer to manufacturers specifications for testing.
5. Load transfer block to be constructed to allow for testing of each anchor bar at specific inclinations and orientations.



ANCHOR BLOCK ELEVATION

CAUTION

DO NOT WELD TO BAR
DO NOT USE BAR AS GROUND FOR WELDING
DO NOT ALLOW HOT SLAG OR SPARKS TO TOUCH BAR
DO NOT DAMAGE BAR SURFACE
DO NOT USE BARS WITH KINKS OR SHARP BENDS
FAILURE TO HEED THIS WARNING COULD CAUSE BAR TO BREAK RESULTING IN INJURY OR DAMAGE.

WARNING

AT NO TIME DURING STRESSING AND REMOVAL OF THE JACK, SHALL PERSONS STAND IN LINE WITH THE TENDONS OR BEND OVER ALREADY STRESSED TENDONS.

INSTALLATION PROCEDURE

1) DRILL HOLE; GROUT AND RE–DRILL IF REQUIRED.
2) ASSEMBLE PRE–GROUTED BARS WITH PLATES, NUTS, GROUT TUBES, CENTRALISERS AND COUPLERS (IF APPLICABLE) AND INSERT ANCHOR IN HOLE.
3) TREMIE GROUT ALONG ENTIRE ANCHOR LENGTH.
4) ONCE GROUT REACHES REQUIRED STRENGTH, TEST ACCORDING TO SPECIFICATIONS.
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MARION COASTAL WALKWAY UPGRADE

HALLET COVE, SA 5158

CELL 5/6

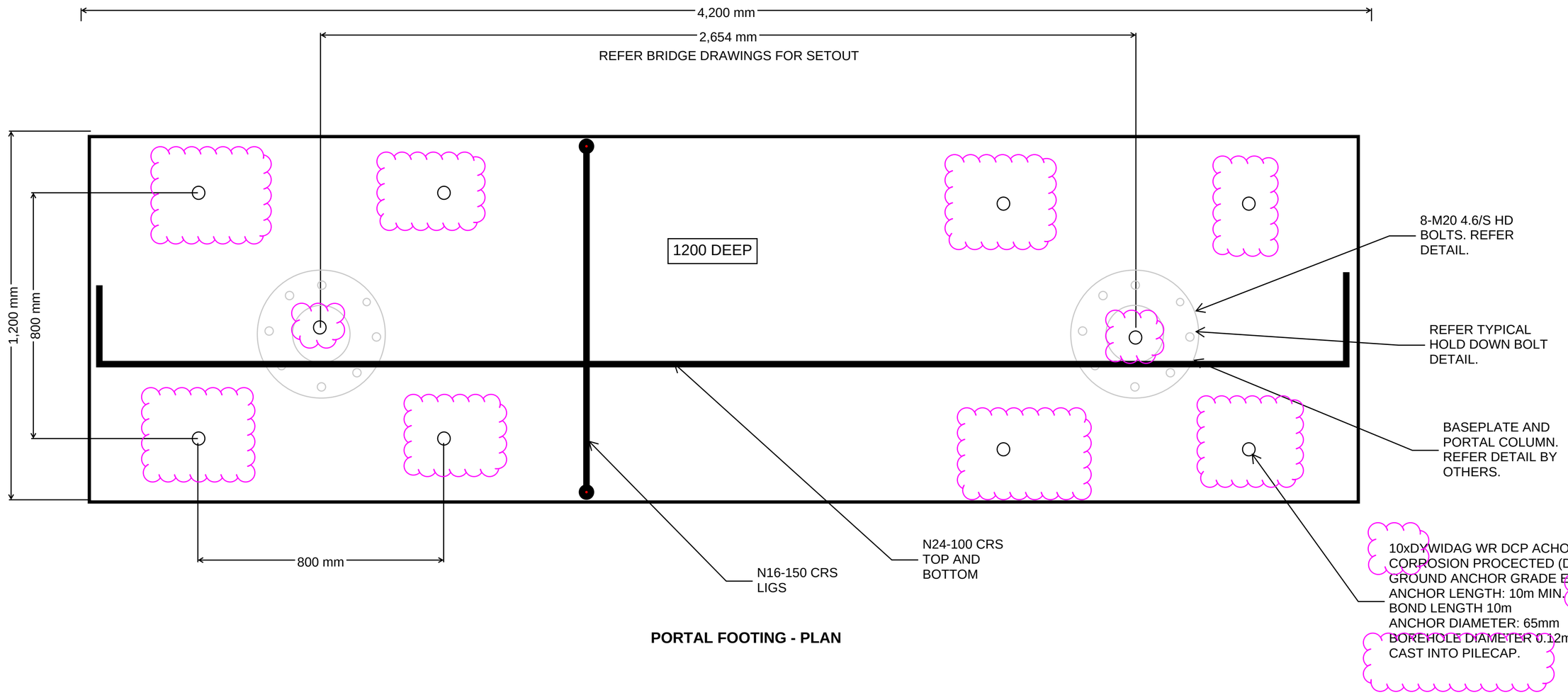
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PORTAL FOOTING - PLAN

NOTE: ALL REINFORCEMENT AND STEEL TO BE HOT DIP GALVANISED.
NOTE: COVER TO BE MINIMUM 50MM.
REINFORCEMENT TO BE 3D SHOP DRAWN.

ALL CONCRETE TO BE f'c = 50MPa AND COLOURED IN ACCORDANCE WITH LANDSCAPE ARCHITECT REQUIREMENTS

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DRAFTER	JCA
DRAFTING CHECK	XXX
DESIGNER	JCA/CMW
DESIGN CHECK	XXX
PROJECT MANAGER	XXX

MARION COASTAL WALKWAY UPGRADE

HALLET COVE, SA 5158

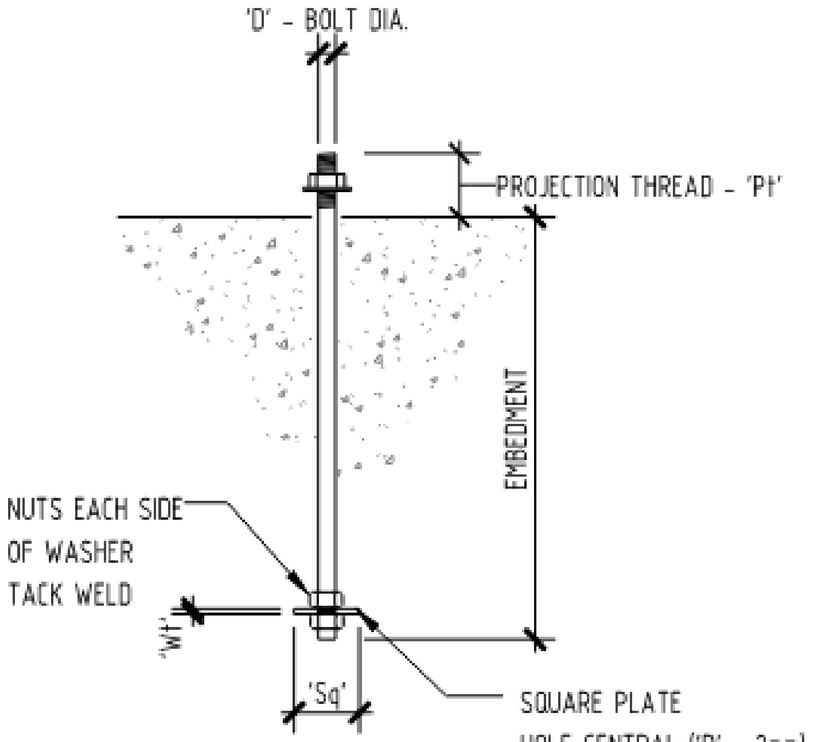
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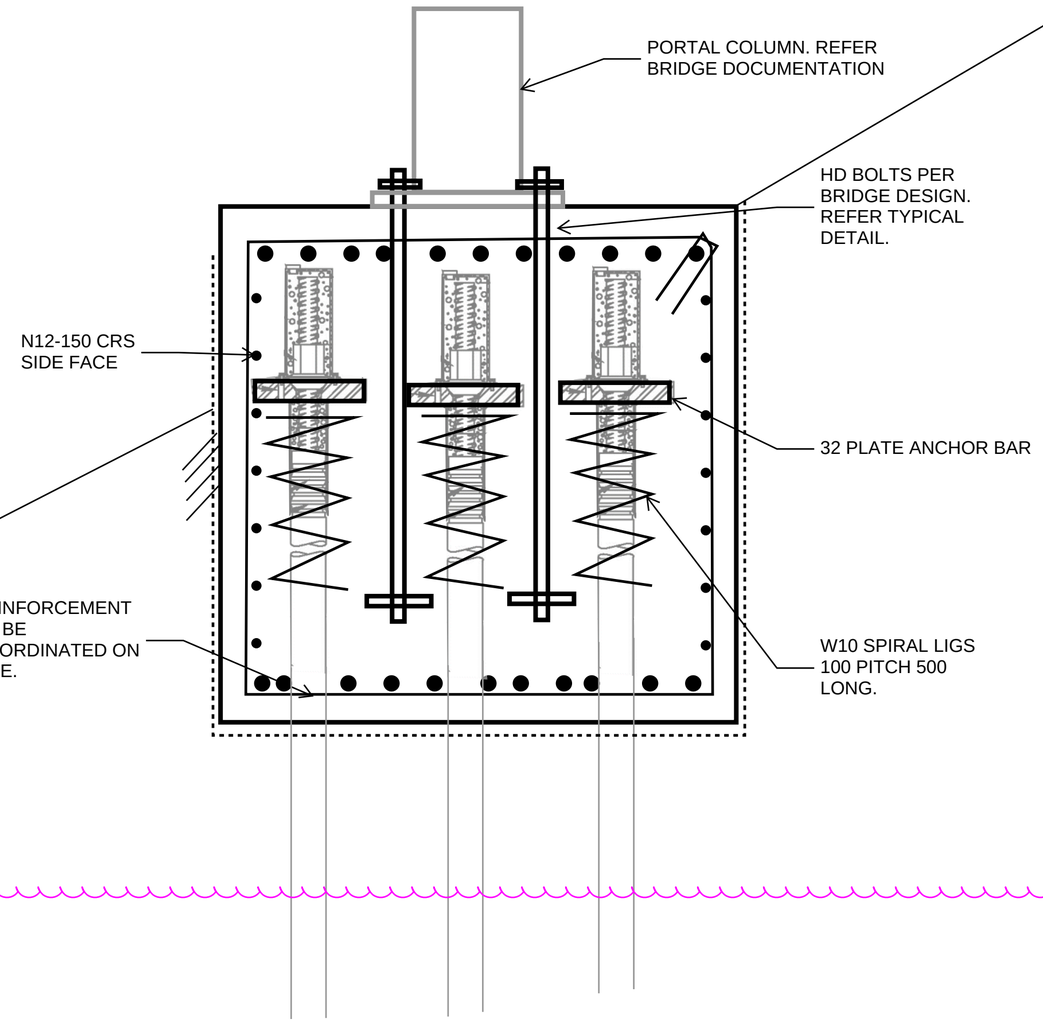


NOTE:

THREADED ROD SHALL BE HOT DIPPED GALVANISED. A MATERIAL CERTIFICATE MUST BE PROVIDED TO THE DESIGN ENGINEER BEFORE USE.

TYPE	'D'	EMBEDMENT	'Pt'	'Wt'	'Sq'
HD1	20DIA 4.6/S	650	100	32	150

TYPICAL HOLD DOWN BOLT DETAIL



PORTAL FOOTING - SECTION

NOTE: ALL REINFORCEMENT AND STEEL TO BE HOT DIP GALVANISED.
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MARION COASTAL WALKWAY UPGRADE

HALLET COVE, SA 5158

CELL 5/6

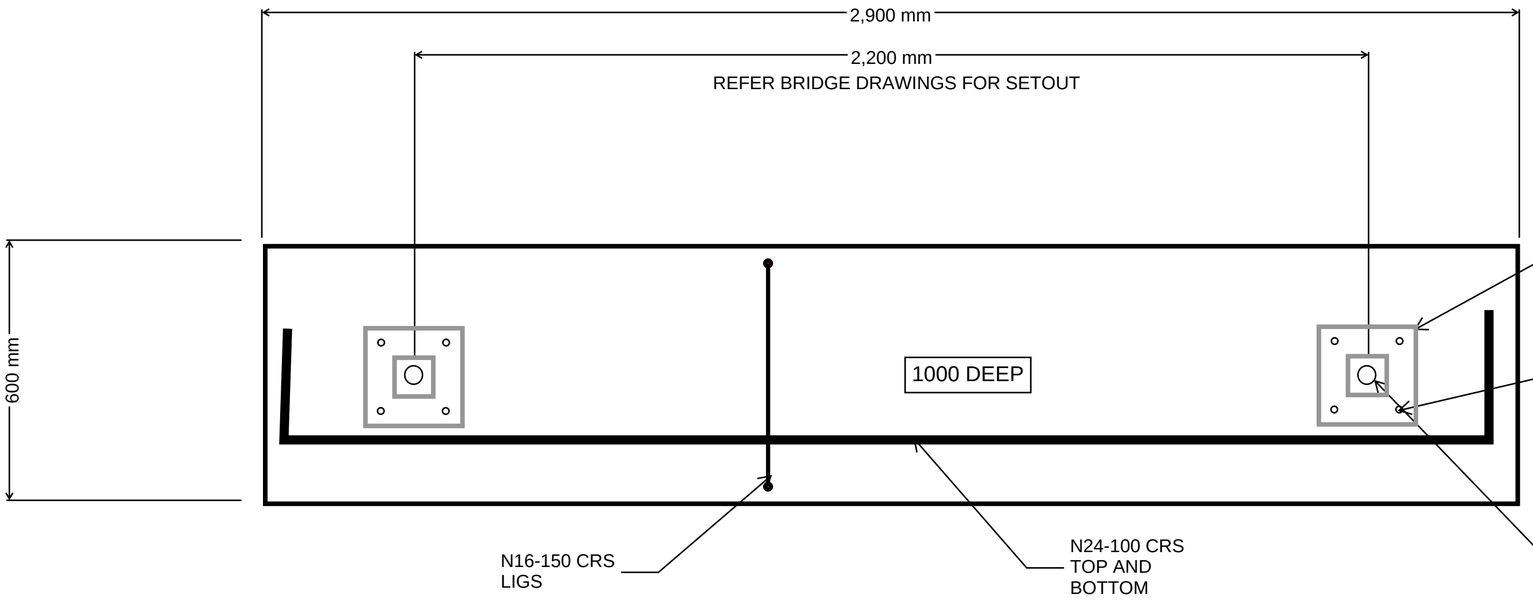
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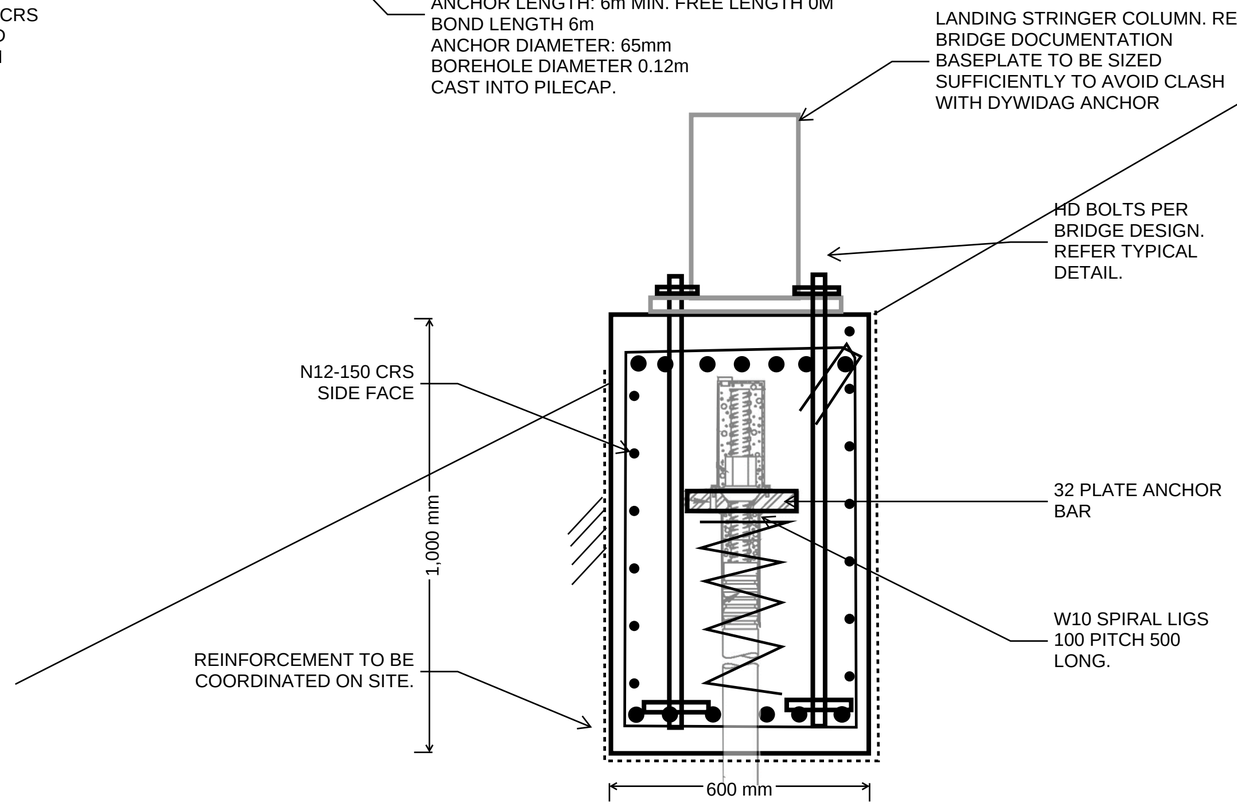
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BRIDGE LANDING FOOTING - PLAN



BRIDGE LANDING FOOTING - SECTION

NOTE: ALL REINFORCEMENT AND STEEL TO BE HOT DIP GALVANISED.
NOTE: COVER TO BE MINIMUM 50MM.
REINFORCEMENT TO BE 3D SHOP DRAWN.

ALL CONCRETE TO BE f'c = 50MPa AND COLOURED IN ACCORDANCE WITH LANDSCAPE ARCHITECT REQUIREMENTS

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						DESIGN CHECK	XXX
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MARION COASTAL WALKWAY UPGRADE

HALLET COVE, SA 5158

CELL 5/6

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