

Our ref: WR26/23692

7 September 2026

Gold Coast City Council
c/- Diego de Carvalho Malheiros
dmalheiros@goldcoast.qld.gov.au

Attention: Diego de Carvalho

Dear Mr de Carvalho Malheiros

Agreement to an exemption certificate

The State Assessment and Referral Agency (SARA) received your request for an exemption certificate to be given for the development described below on 31 July 2026.

Under section 46(2)(b) of the *Planning Act 2016*, SARA advises that an exemption certificate is given for the development described below.

Applicant details

Applicant name:	Gold Coast City Council
Applicant contact details:	Diego de Carvalho Malheiros dmalheiros@goldcoast.qld.gov.au

Premises details

Street address:	Lot 255 Marine Parade, Biggera Water
Real property description:	Lot 255 on Plan WD5704
Local government area:	Gold Coast City Council

Development details

Description:	Operational work that is tidal work or work in a coastal management district – interfering with quarry material on state coastal land above high-water mark for the construction of a toilet block and associated walkway space
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As described above in accordance with the following documentation:

Plans/specifications	Prepared by	Date	Reference no/Revision
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Marine Parade, Biggera Waters Quota Park New Amenities Facility	City of Gold Coast	24/06/26	Sheet 5, Issue 1
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Referral agencies

Not applicable.

Assessable development

This exemption certificate relates to the following provisions of the Planning Regulation 2017:

- Schedule 10, Part 17, Division 2, Table 1, Item 1—Operational work that is tidal works or work in a coastal management district.

Human rights consideration

A consideration of the 23 fundamental human rights protected under the *Human Rights Act 2019* has been undertaken as part of this decision. The decision was found not to limit human rights under the *Human Rights Act 2019* therefore, it is reasonable to conclude the decision is compatible with human rights.

Reasons for giving the exemption certificate

This exemption certificate is given as the effects of the development would be minor or inconsequential, considering the circumstances under which the development was categorised as assessable development.

When exemption certificate ceases to have effect

Pursuant to section 46(8) of the *Planning Act 2016*, this exemption certificate has effect for two years.

For further information please contact Megan Austin, Planning Officer on 07 5644 3228, or by email at SEQSouthPlanning@dssip.qld.gov.au, who will be pleased to assist.

Yours sincerely



Karley Lawler
Director
Planning Services
Planning Group

enc Attachment 1 – Material referenced in exemption certificate

cc Gold Coast City Council, mail@goldcoast.qld.gov.au

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CIVIL DRAWING SCHEDULE			
SHEET No.	TITLE	DWG No.	ISSUE
1.	DRAWING SCHEDULE AND LOCALITY PLAN	59590.001	1
2.	GENERAL NOTES AND LEGEND	59590.002	1
3.	CONCRETE FOOTPATH NOTES AND JOINT DETAILS	59590.003	1
4.	REFERENCE STRING SETOUT PLAN	59590.004	1
5.	GENERAL ARRANGEMENT PLAN	59590.005	1
6.	CROSS SECTIONS	59590.006	1
7.	LONGITUDINAL SECTIONS RSP01 & RSP02	59590.007	1

ARCHITECTURAL DRAWING SCHEDULE			
SHEET No.	TITLE	DWG No.	ISSUE
1.	FINISHES, FIXTURES AND FITTING SCHEDULE	59590.401	1
2.	FLOOR PLAN AND LEGEND	59590.402	1
3.	SLAB & PLUMBING LAYOUT PLAN	59590.403	1
4.	REFLECTED CEILING PLAN	59590.404	1
5.	ELEVATIONS 1 & 2	59590.405	1
6.	ELEVATIONS 3 & 4	59590.406	1
7.	SECTION 'A'	59590.407	1
8.	INTERNAL WALL ELEVATIONS 5 & 6	59590.408	1
9.	INTERNAL WALL ELEVATIONS 7 & 8	59590.409	1
10.	SCREEN DETAILS	59590.410	1
11.	STANDARD DETAILS	59590.411	1
12.	STANDARD DETAIL DOOR STOP	59590.412	1
13.	SC-1 DETAILS AND NOTES	59590.413	1

STRUCTURAL DRAWING SCHEDULE			
SHEET No.	TITLE	DWG No.	ISSUE
1.	CONSTRUCTION NOTES - SHEET 1 OF 2	59590.501	1
2.	CONSTRUCTION NOTES - SHEET 2 OF 2	59590.502	1
3.	FOOTING AND SLAB ON GROUND PLAN	59590.503	1
4.	FOOTING AND SLAB ON GROUND DETAILS - SHEET 1 OF 3	59590.504	1
5.	FOOTING AND SLAB ON GROUND DETAILS - SHEET 2 OF 3	59590.505	1
6.	FOOTING AND SLAB ON GROUND DETAILS - SHEET 3 OF 3	59590.506	1
7.	WALL FRAMING PLAN AND COLUMN KEY PLAN	59590.507	1
8.	WALL FRAMING DETAILS - SHEET 1 OF 2	59590.508	1
9.	WALL FRAMING DETAILS - SHEET 2 OF 2	59590.509	1
10.	CISTERN RECESS SECTION AND ELEVATIONS	59590.510	1
11.	ROOF AND CEILING FRAMING PLAN AND SCHEDULE	59590.511	1
12.	ROOF AND WALL FRAMING LONGITUDINAL SECTIONS	59590.512	1
13.	BASE PLATE AND ANCHOR DETAILS	59590.513	1
14.	ROOF AND WALL FRAMING DETAILS - SHEET 1 OF 2	59590.514	1
15.	ROOF AND WALL FRAMING DETAILS - SHEET 2 OF 2	59590.515	1
16.	COLUMN KEY PLAN AND ELEVATION OPTION 2	59590.516	1

HYDRAULIC DRAWING SCHEDULE			
SHEET No.	TITLE	DWG No.	ISSUE
1.	NOTES AND LEGEND	59590.601	1
2.	SITE LAYOUT PLAN	59590.602	1
3.	DRAINAGE SERVICES PLAN AND SCHEMATIC	59590.603	1
4.	WATER SERVICES PLAN AND SCHEMATIC	59590.604	1
5.	SEWER PUMP STATION DETAILS	59590.605	1

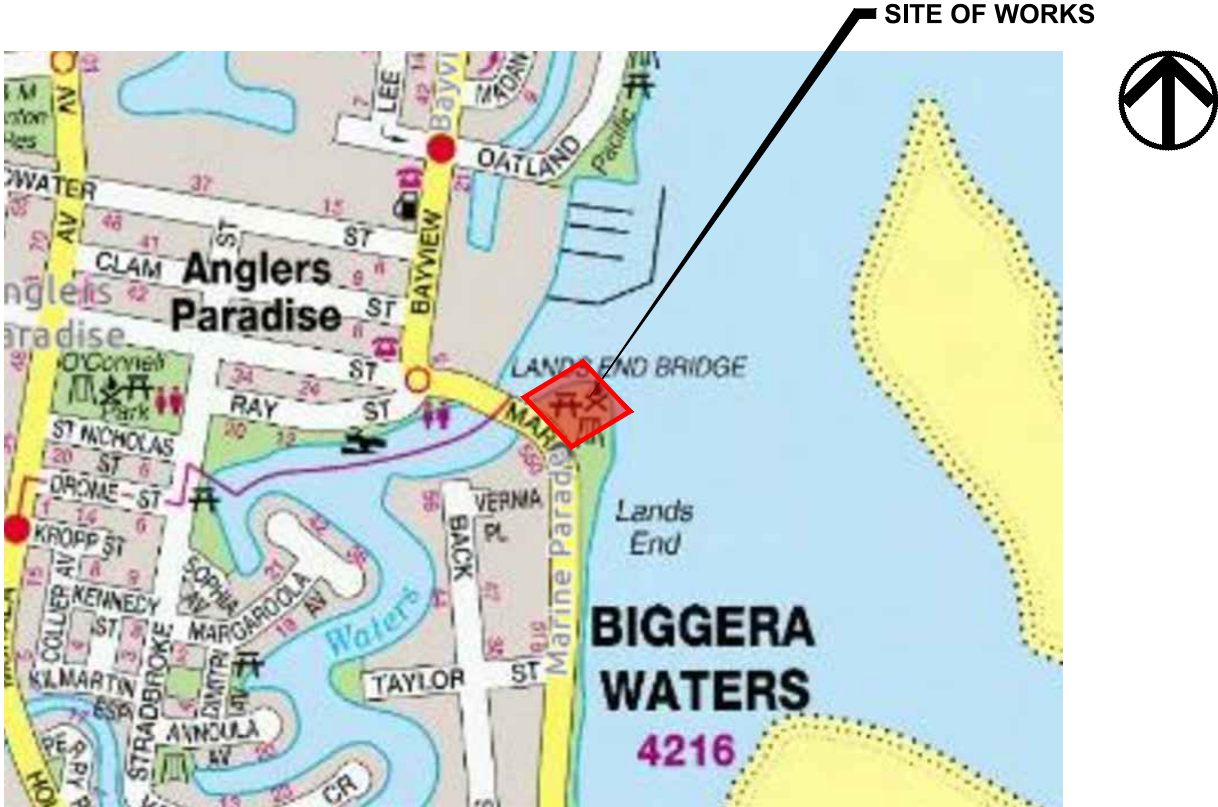
ELECTRICAL DRAWING SCHEDULE			
SHEET No.	TITLE	DWG No.	ISSUE
1.	NOTES AND LEGEND	59590.701	1
2.	SITE LAYOUT PLAN	59590.702	1
3.	LIGHTING AND POWER LAYOUT	59590.703	1
4.	DISTRIBUTION BOARD (DB-TOILET) SINGLE LINE DIAGRAM	59590.704	1
5.	PARTS LIST AND ASSET IDENTIFICATION TABLES	59590.705	1
6.	SINGLE LINE DIAGRAM	59590.706	1
7.	ELECTRICAL SCHEMATICS	59590.707	1
8.	GENERAL LAYOUT	59590.708	1

SURVEY DRAWING SCHEDULE			
SHEET No.	DESCRIPTION	DWG. No.	ISSUE
1.	MARINE PARADE BIGGERA WATERS DETAIL SURVEY	24056-1.1	1

MARINE PARADE, BIGGERA WATERS

QUOTA PARK

NEW AMENITIES FACILITY



LOCALITY PLAN
NOT TO SCALE

TANK INSTALLATION NOTES & SPECIFICATIONS			
SHEET No.	TITLE	DWG No.	ISSUE
1	BOUYANCY & COVER HEIGHTS	1355-G-EN-01	0.3
2	GENERIC LIFTING DETAILS	1355-G-EN-02	0.2
3	VEHICLE LOADING	1355-G-EN-03	0.2
4	GENERIC ENGINEERING NOTES	1355-G-EN-04	0.2

STANDARD DRAWINGS			
SHEET No.	TITLE	DWG No.	PROVIDER
1	KERB AND CHANNEL PROFILE AND DIMENSIONS - INCLUDING EDGE RESTRAINTS, MEDIANS AND CHANNEL	RS-080	IPWEA
2	RETICULATION - CONDUIT RETICULATION - TRENCH DETAILS	GCSD-ELE-02-001	CoGC
3	RETICULATION - STANDARD PIT INSTALLATION DETAILS - CIRCULAR PITS	GCSD-ELE-02-003	CoGC
4	RETICULATION - LABELLING REQUIREMENTS IN ELECTRICAL PITS	GCSD-ELE-02-005	CoGC
5	SWITCHBOARDS - DISTRIBUTION BOARD WALL MOUNTED - GENERAL ARRANGEMENT - 3 PHASE (NO METER)	GCSD-ELE-04-012	CoGC
6	SWITCHBOARDS - EXTERNAL LABELLING REQUIREMENTS	GCSD-ELE-04-017	CoGC
7	SWITCHBOARDS - INTERNAL LABELLING REQUIREMENTS	GCSD-ELE-04-018	CoGC

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	Infrastructure Gold Coast Engineering, Design and Standards		Drafted R. JALALIAN	Engineered G. MAXWELL						Bar Scales	NOT TO SCALE	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY	Project Number 33423		
			Designed D. MASON	Certified G. MAXWELL	RPEQ 10981									Sheet of 1 7	Issue 1
			Design & Drafting Checked S. HART	Authorised A. JAFARI										Drawing Number 59590.001	
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineered Document Reference A121687627		Project Identifier\^CAD File Name QuotaPrk.010.33423\^COV								
	* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION		Records File Number PN13586/46/10		Survey Folder Number D7478		1	ISSUED FOR CONSTRUCTION		G. MAXWELL	GM	24/06/26	CIVIL DRAWING SCHEDULE AND LOCALITY PLAN		
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GENERAL NOTES

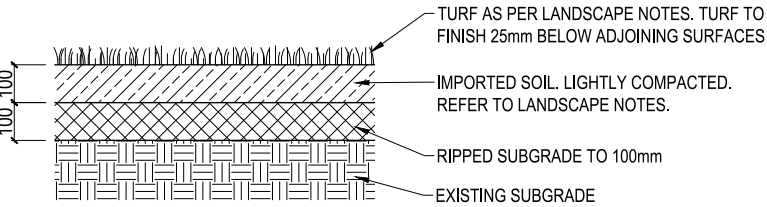
1. CARRY OUT ALL WORKS IN CONFORMANCE WITH THE APPROVED PROJECT DOCUMENTATION. RECORD AND HAVE AUTHORISED ANY CHANGES MADE TO THE WORKS UNDER THIS DOCUMENTATION, IN CONFORMANCE WITH QUALITY PROCEDURES.
2. WHERE PROJECT DOCUMENTATION (INCLUDING THESE DRAWINGS) DOES NOT PROVIDE CLEAR DETAILS, UNDERTAKE WORKS IN CONFORMANCE WITH CITY PLAN LAND DEVELOPMENT GUIDELINES CURRENT EDITION INCLUDING STANDARD SPECIFICATIONS & DRAWINGS.
3. WHERE PROJECT SPECIFIC DETAILS ARE NOT INCLUDED, PROVIDE TRAFFIC MANAGEMENT, LINE MARKING AND SIGNAGE TO DTMR "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES"/AS1742 REQUIREMENTS.
4. NOTE THAT PROPERTY BOUNDARIES ARE DERIVED FROM THE CITY OF GOLD COAST GEOSPATIAL INFORMATION SYSTEM AND ARE SUBJECT TO FINAL SURVEY U.N.O.
5. ARRANGE SET OUT BY CITY OF GOLD COAST INFRASTRUCTURE DELIVERY SURVEY SERVICES. NOTIFY SURVEY COORDINATOR A MINIMUM OF 48 HOURS IN ADVANCE.
6. ENSURE THE REQUIRED SURVEY CONTROL MARKS HAVE NOT BEEN DISTURBED OR DESTROYED PRIOR TO ESTABLISHMENT AND COMMENCEMENT OF WORKS. LIAISE WITH AND ALLOW SUFFICIENT TIME (48 HOURS NOTICE) FOR CITY OF GOLD COAST INFRASTRUCTURE DELIVERY SURVEY SERVICES TO PROVIDE NEW SURVEY CONTROL INFORMATION. CONTACT SURVEY SERVICES SURVEY COORDINATOR ON (07) 5581 1772.
7. NOTE, UNDERGROUND SERVICES SHOWN ON THESE PLANS HAVE BEEN DERIVED FROM GIS DATA (QL-D), ELECTROMAGNETIC RADIO DETECTION (QL-B) AND POTHOLING (QL-A) WITH SURVEY PICK UP TO AS5488. POTHOLING (QL-A) DATA ARE IDENTIFIED ON THESE PLANS WITH A REDUCED LEVEL TO TOP OF PIPE/SERVICE UNLESS NOTED OTHERWISE.
8. REINSTATE THE AFFECTED WORK AREA TO CONDITION PRIOR TO COMMENCEMENT OF WORK, INCLUDING FENCES, GATES, DRIVEWAYS ETC. WITH EXISTING OR MATCHING MATERIALS, OR AS DIRECTED U.N.O.
9. UNDERTAKE EROSION AND SEDIMENT MANAGEMENT IN ACCORDANCE WITH DIRECTORATE QUALITY MANAGEMENT SYSTEM.
10. UNDERTAKE WORKS IN ACCORDANCE WITH THE PROJECT VEGETATION MANAGEMENT SPECIFICATION.
11. COORDINATE RELOCATION OF SERVICES THROUGH APPROPRIATE PROVIDER CONTACTS SHOWN IN THE SPECIFICATION.
12. CONTACT BEFORE YOU DIG AUSTRALIA "BYDA" (www.byda.com.au or www.1100.com.au) PRIOR TO COMMENCING WORKS.
13. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND DESIGNER'S RISK ASSESSMENT.

PERMEABLE PAVEMENT NOTES

1. USE PRINCIPAL APPROVED PRODUCTS ONLY. REFER TO MANUFACTURE'S SPECIFICATIONS.
2. SURFACE COURSE: APPLY PERMEABLE RESIN BOUNDED GRAVEL. USE 8-10mm AGGREGATE AT MINIMUM100mm DEPTH. COLOR AND TEXTURE TO BE APPROVED BY CoGC SUPERINTENDENT REPRESENTATIVE.
3. USE "STONESET" OR EQUIVALENT.

LANDSCAPE NOTES:

1. ALL PLANTING AND ONGOING MAINTENANCE IN ACCORDANCE WITH CITY PLAN STANDARD DRAWINGS 05-101 TO 05-106.
2. MINIMISE IMPACTS TO EXISTING VEGETATION IN ACCORDANCE WITH THE VEGETATION MANAGEMENT SPECIFICATION.
3. UNDERTAKE IN ACCORDANCE WITH LANDSCAPE WORKS - GENERAL SPECIFICATION.



TURF -TYPICAL PROFILE DETAIL
NTS

DEMOLITION NOTES:

1. ALL DEMOLITION WORK TO BE CARRIED OUT IN ACCORDANCE WITH AS.2601.
2. ENSURE ALL SERVICES ARE DISCONNECTED AND CAPPED BELOW GROUND LEVEL. SERVICES TO BE RECONNECTED SHOULD BE LOCATED BY SURVEY AND PROTECTED FOR FUTURE CONNECTION.
3. ADJUST LEVELS OF EXISTING SERVICE PITS TO BE RETAINED TO SUIT NEW WORKS.

EXISTING LEGEND

	EXISTING SEMI-MOUNTABLE KERB
	EXISTING PROPERTY BOUNDARY
	EXISTING LOG BARRIER
	EXISTING FENCE
	EXISTING CONCRETE PATH EDGE
	EXISTING COMMS PIT
	EXISTING COMMS PILLAR
	EXISTING COMMS MARKER POST
	EXISTING TELEPHONE BOX
	EXISTING ELECT. INSP BOX
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING LIGHT POLE WITH OUTREACH
	EXISTING ELECT. PILLAR
	EXISTING TRAFFIC SIGNAL
	EXISTING ELECT. MAIN SWITCHBOARD
	EXISTING ELECT. DISTRIBUTION BOARD
	EXISTING WATER METER
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SCOUR VALVE
	EXISTING WATER TAP
	EXISTING SEWER MANHOLE
	EXISTING BIN
	EXISTING SIGN
	EXISTING POST BOX
	EXISTING DRAINAGE MANHOLE
	EXISTING SURVEY CONTROL MARKER
	EXISTING PERMANENT SURVEY MARKER

EXISTING UTILITY LEGEND

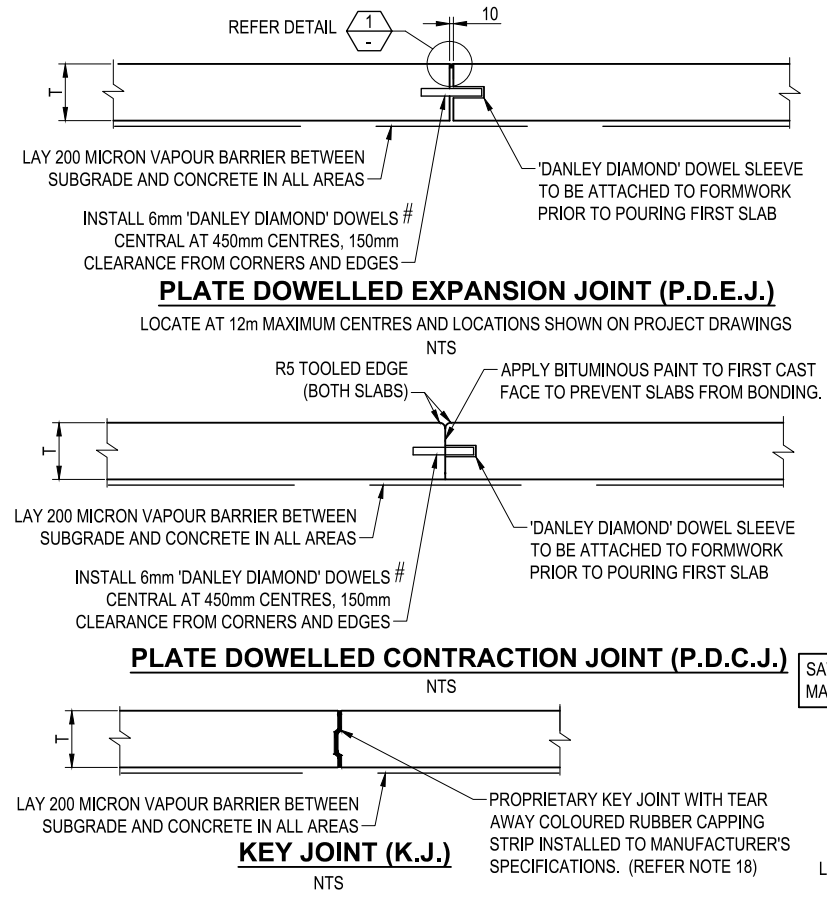
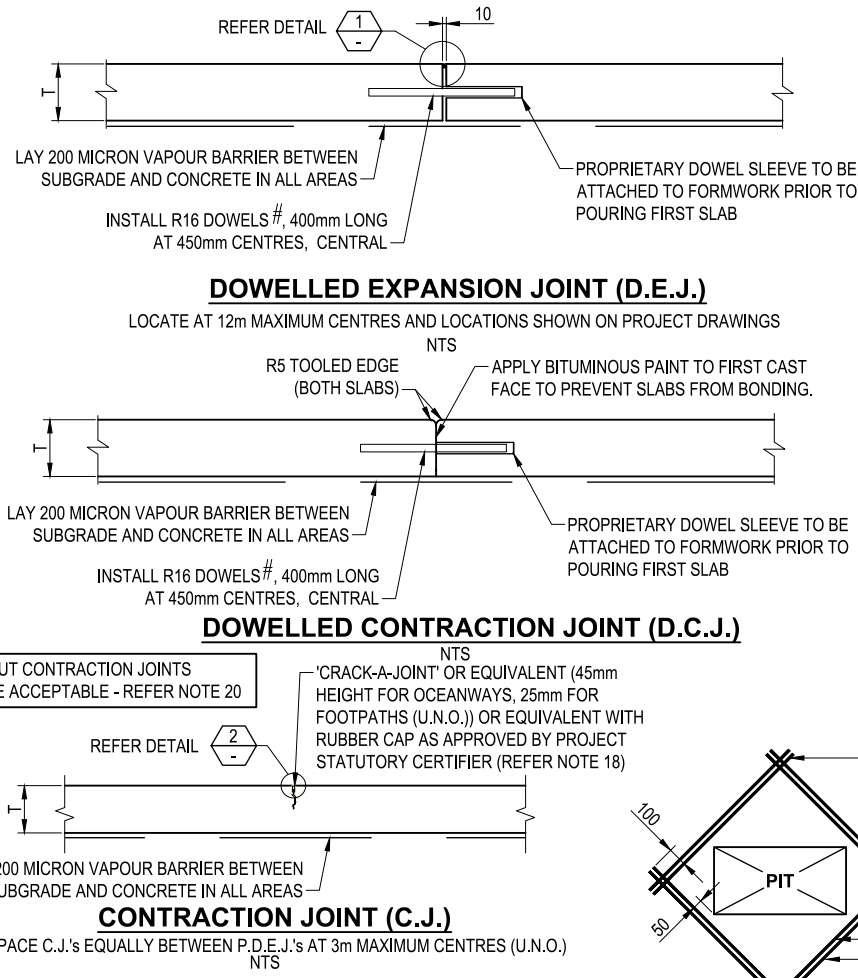
QUALITY LEVEL (A), (B), (C), (D)	
	EXISTING UG ELECTRICITY
	EXISTING OVERHEAD ELECTRICITY
	EXISTING ELECTRICAL PIT
	EXISTING LIGHT POLE WITH OUTREACH

PROPOSED LEGEND

	NEW WATER SERVICE
	NEW SEWER LINE
	NEW DRAINAGE LINE
	NEW ELECTRICAL CONDUIT
	NEW ELECTRICAL PIT
	NEW 100mm THICK N32 FIBRE REINFORCED HEAVY BROOM FINISH CONCRETE FOOTPATH. REFER TO DWG 59590.003 FOR DETAILS
	100mm TOPSOIL AND TURF - WINTERGREEN COUCH
	PERMEABLE PAVEMENT (REFER PERMEABLE PAVEMENT NOTES)

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			Designed D. MASON	Certified G. MAXWELL RPEQ 10981											Sheet of 2 7	Issue 1
			Design & Drafting Checked S. HART	Authorised A. JAFARI											Drawing Number 59590.002	
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineered Document Reference A121687627		Project Identifier\^CAD File Name QuotaPrk.010.33423\^NOTES									
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						Issue	Description *	Name	Initial	Date	Do not scale, use figured dimensions only					
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DOWEL NOTES

- ENSURE DOWELS ARE STRAIGHT, PERPENDICULAR TO JOINT AND CAPPED.
- DO NOT DISPLACE DURING POUR.

STAINLESS STEEL DOWELS TO BE USED ON OCEANWAYS AND PATHS IN COASTAL ZONES. GALVANIZED DOWELS TO BE USED IN ALL OTHER ZONES.

SLAB THICKNESS (T)

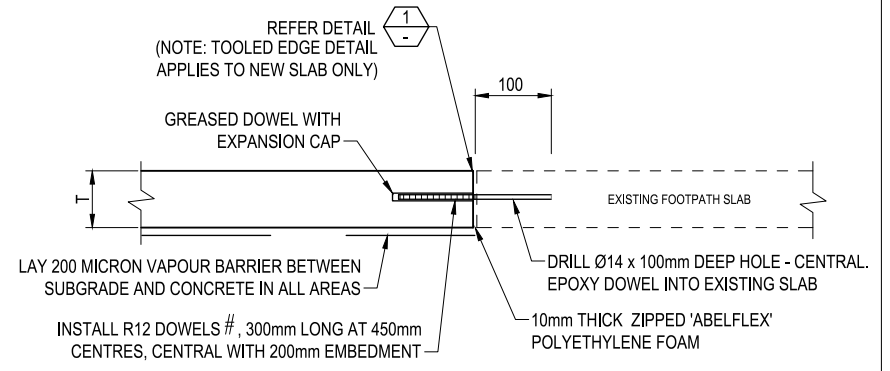
FOOTPATH = 100mm THICK (U.N.O.)

*** TOOLED FINISH**

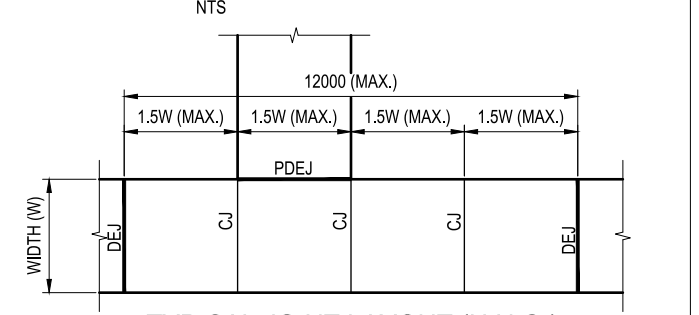
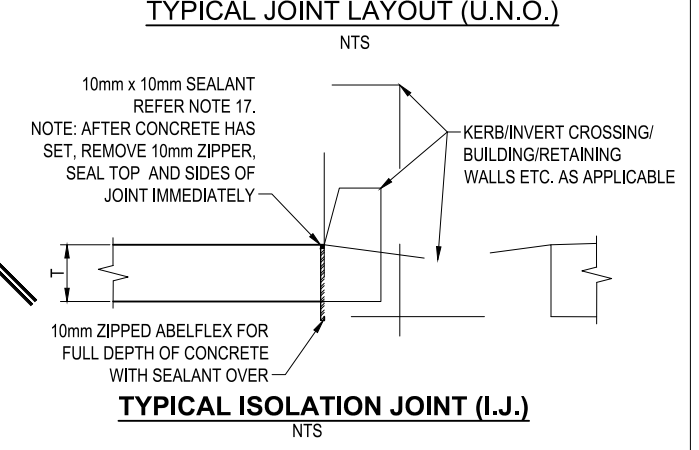
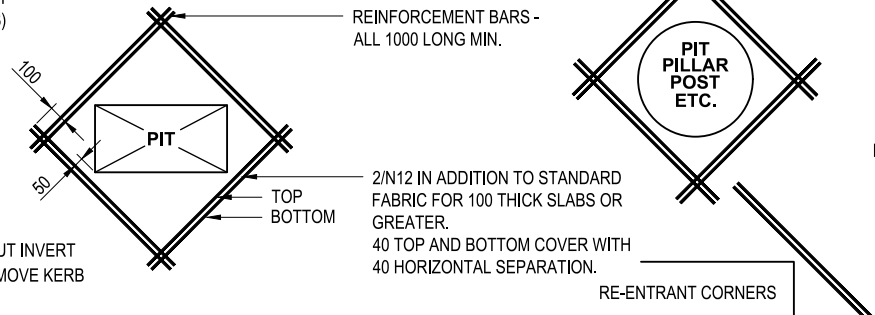
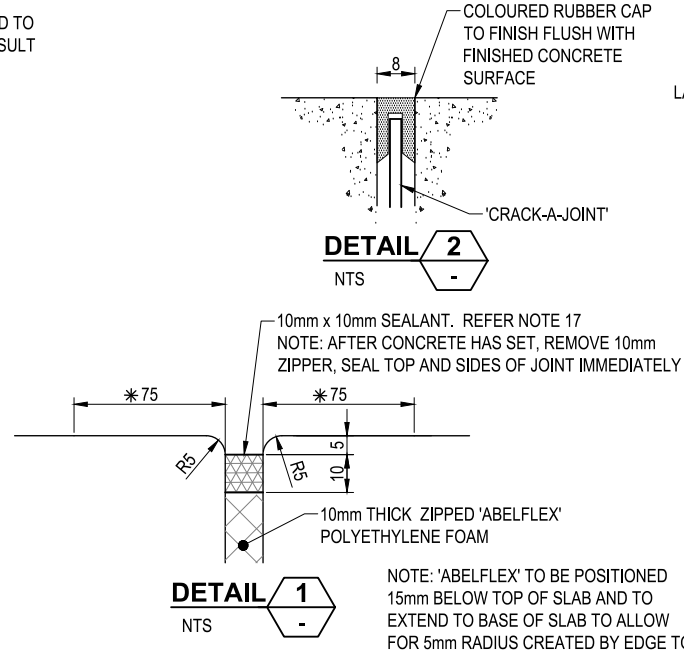
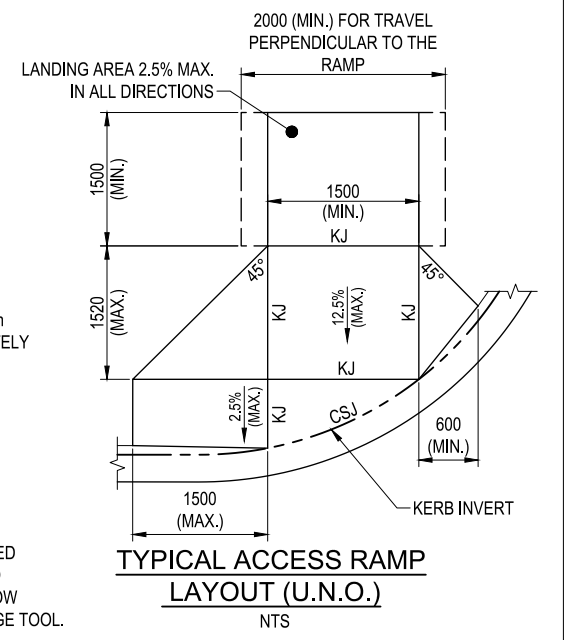
THE SAME TOOL EDGE FINISHING PROFILE TO BE APPLIED AT ALL JOINTS AND ALONG THE SIDES OF THE PATH.

NOTE: (IMPORTANT FOR PDEJ)

ENSURE PLATE DOWELS HAVE 10mm EXPANSION POSSIBLE WITHIN THE PLASTIC SLEEVE.



JOINT DETAIL FOR FOOTPATH TO EXIST. FOOTPATH (N.E.J.)

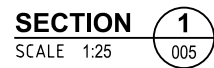


CONCRETE FOOTPATH NOTES:

- (FOR FIBRE REINFORCED CONCRETE)
1. MATERIALS AND CONSTRUCTION: TO AS 3600, AS 3610.
 2. CONCRETE QUALITY: TO AS 1379
READY MIX CONCRETE: TO AS 1379
 - a. DO NOT USE ADMIXTURES WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER).
 - b. CEMENT: TYPE 'GP' OR 'GB' TO AS 3972.
 - c. MAXIMUM SIZE OF COARSE AGGREGATE: 20mm.
 - d. CONCRETE SLUMP: 80mm U.N.O.
 - e. CONCRETE STRENGTH: 32MPa (U.N.O.) @ 28 DAYS
 - f. COLOURED CONCRETE TO BE INTEGRALLY COLOURED WITH CONCRETE COLOUR SYSTEMS PRODUCTS REFER PROJECT DRAWINGS FOR DETAILS
 3. VERIFY STRENGTH BY PRODUCTION CONTROL TESTING TO AS 1379.
 4. NO UNSPECIFIED HOLES, PIPES, CONDUITS, DUCTING OR CHASES ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER).
 5. STRUCTURAL DIMENSIONS DO NOT INCLUDE TOPPINGS OR FINISHES.
 6. FORM CONSTRUCTION JOINTS ONLY AT LOCATIONS SHOWN ON DRAWINGS. DO NOT VARY WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER).
 7. PREPARE COLD JOINTS BY LIGHT SCABBLING, REMOVAL OF DEBRIS AND WASHING WITH CLEAN WATER.
 8. FOUNDATION MATERIALS MUST BE CAPABLE OF WITHSTANDING A SAFE BEARING PRESSURE OF 100kPa. VERIFY AND RECORD THE BEARING CAPACITY BEFORE ANY CONCRETE IS PLACED.
 9. DO NOT PLACE CONCRETE UNTIL FORMWORK IS INSPECTED BY SUPERINTENDENT (SUPERVISING OFFICER).
 10. THOROUGHLY CLEAN OUT ALL FORMWORK PRIOR TO POURING.
 11. DO NOT PLACE CONCRETE UNDER THE FOLLOWING CONDITIONS:
 - a. WHEN THE SURROUNDING OUTDOOR TEMPERATURE EXCEEDS 30°C.
 - b. WHEN THE SURROUNDING WIND SPEED EXCEEDS 12 KNOTS.
 12. DO NOT PLACE CONCRETE WHEN THE CONCRETE TEMPERATURE AT THE TIME OF DELIVERY EXCEEDS 35°C.
 13. IMPLEMENT THE FOLLOWING PROCEDURES TO MITIGATE PREMATURE DRYING AND CRACKING OF THE CONCRETE:
 - a. IN HOT CONDITIONS, PROGRAM CONCRETE PLACEMENT FOR THE COOLER PART OF THE DAY (ie. EARLY MORNING).
 - b. SPRAY EVAPORATIVE RETARDERS WITH FUGITIVE DYES (eg. ALIPHATIC ALCOHOL) OVER THE SURFACE IMMEDIATELY AFTER SCREEDING AND WHILST BLEED WATER IS STILL PRESENT. REAPPLY IF THE SURFACE IS DISTURBED.
 - c. COMMENCE CURING IMMEDIATELY AFTER FINISHING. REFER DATA SHEET FOR CCS CLAD R WATER BASED CURING COMPOUND - APPLICATION GUIDELINES.

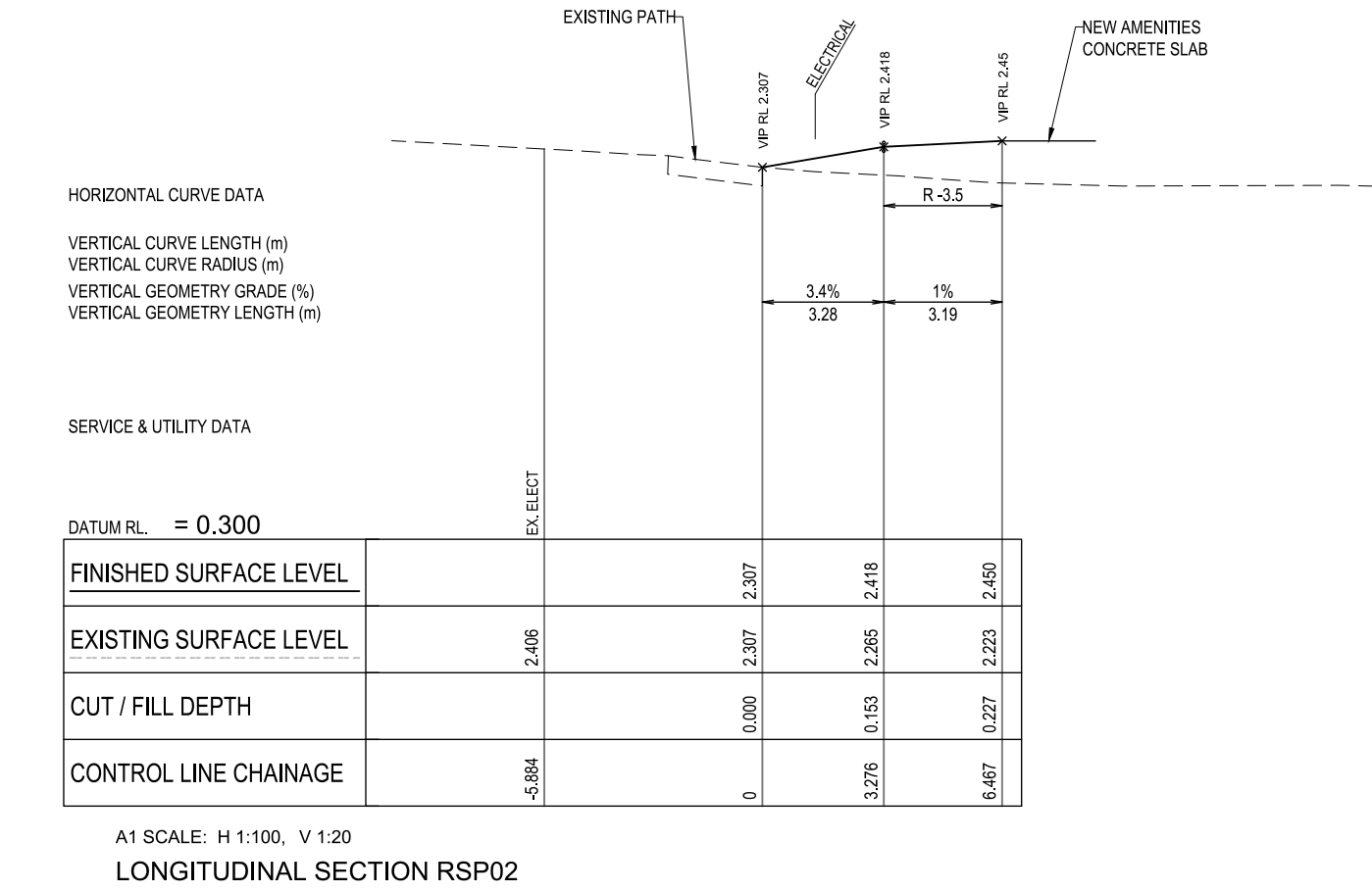
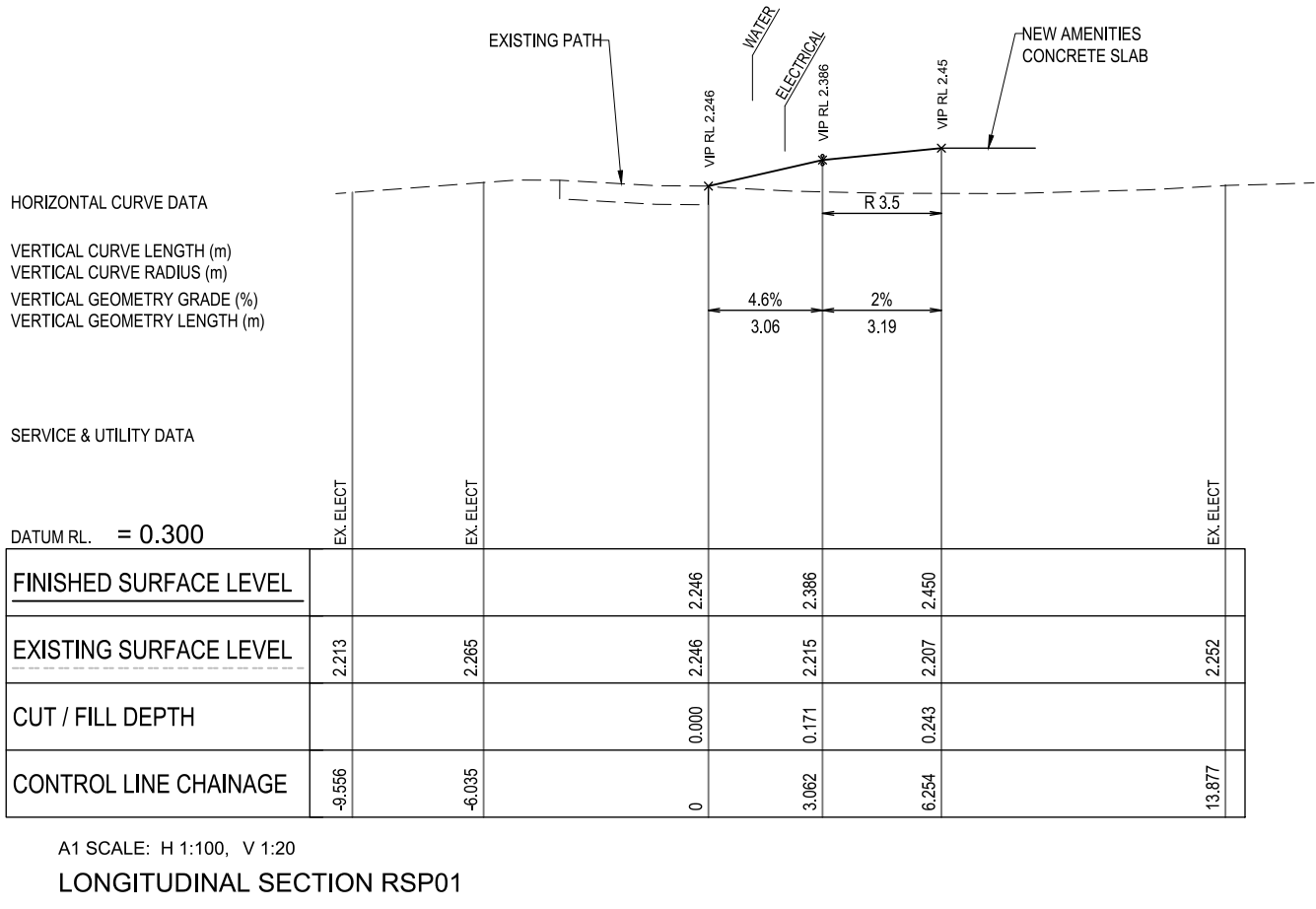
14. VIBRATE CONCRETE DURING PLACEMENT TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION.
15. SURFACE FINISH - REFER TO DRAWINGS FOR DETAILS
16. MIX NOVOMESH 950 (FORMERLY NOVOMESH HPP 2.0) THOROUGHLY WITH CONCRETE AT A DOSAGE RATE OF 4.6kg/m³ OF CONCRETE. (APPROVAL FOR SUBSTITUTION OF A DEEMED EQUIVALENT PRODUCT MAY BE GIVEN FOLLOWING A DESIGN BRANCH REVIEW)
17. EXPANSION JOINTS & ISOLATION JOINTS ARE TO BE SEALED TO MANUFACTURER'S SPECIFICATIONS WITH A GUN GRADE POLYURETHANE LOW MODULUS SELF PRIMING SEALANT EQUAL TO 'TREMCO DYMONIC NT' (+100%, -50% MOVEMENT CAPACITY). SEALANT COLOUR GREY UNLESS SPECIFIED ON CONCRETE SURFACES SCHEDULE IN PROJECT DRAWINGS.
18. CONTRACTION JOINTS (C.J. & K.J.) TO HAVE GREY COLOURED RUBBER CAP UNLESS SPECIFIED OTHERWISE IN PROJECT DRAWINGS.
19. PLATE DOWELLED JOINTS ARE SUITED TO INTERSECTIONS OF PATHS OR SLABS WHERE 2 WAY EXPANSION/ CONTRACTION WILL OCCUR.
20. GREEN CONCRETE SAW CUTTING OF CONTRACTION JOINTS ONLY PERMITTED IF UNDERTAKEN WITHIN 4 TO 8 HOURS AFTER FINISHING. SAW CUT JOINTS TO BE 1/3 SLAB DEPTH x 3mm WIDE. PROVIDE SEALANT TO ALL SAWN JOINTS.
21. VAPOUR BARRIER (PLASTIC MEMBRANE) TO BE PROVIDED BENEATH ALL CONCRETE FOOTPATHS UNLESS OTHERWISE APPROVED. OMISSION MAY BE PERMITTED WHERE SITE-SPECIFIC CONDITIONS DEMONSTRATE LOW PERMEABILITY SUBGRADE (E.G. COHESIVE CLAY SOILS) AND EFFECTIVE MOISTURE CONTROL DURING CURING CAN BE CONFIRMED BY THE CONTRACTOR. ANY PROPOSED OMISSION MUST BE SUPPORTED BY JUSTIFICATION AND APPROVED BY THE RPEQ.

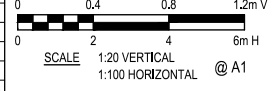
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			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineered Document Reference A121687627	Project Identifier/CAD File Name QuotaPrk.010.33423\I-NOTES							
	* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION		Records File Number PN13586/46/10		Survey Folder Number D7478		1	ISSUED FOR CONSTRUCTION				G. MAXWELL	GM
					Issue	Description *		Name	Initial	Date			
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<div>CITY OF GOLDCOAST.</div>	Infrastructure Gold Coast Engineering, Design and Standards		Drafted R. JALALIAN	Engineered G. MAXWELL								<div>Bar Scales</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>00.511.5m</div><div>SCALE 1:25 @ A1</div></div>	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY			Project Number			
			Designed D. MASON	Certified G. MAXWELL RPEQ 10981	33423														
	Design & Drafting Checked S. HART	Authorised A. JAFARI	Sheet of		Issue														
	General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineered Document Reference A121687627	6 7		1													
			Project Identifier/CAD File Name QuotaPrk.010.33423-I.TYPES												Drawing Number				
			1	ISSUED FOR CONSTRUCTION			G. MAXWELL	GM	24/06/26				59590.006						
			Records File Number PN13586/46/10	Survey Folder Number D7478	Issue			Description *			Name			Initial			Date		
						Design not to be amended without authorisation by Statutory Certifier			Do not scale, use figured dimensions only			CIVIL CROSS SECTIONS							
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	Infrastructure Gold Coast Engineering, Design and Standards	Drafted R. JALALIAN	Engineered G. MAXWELL					Bar Scales  SCALE 1:20 VERTICAL 1:100 HORIZONTAL @ A1	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY	Project Number 33423			
		Designed D. MASON	Certified G. MAXWELL RPEQ 10981							Sheet of 7 7	Issue 1		
		Design & Drafting Checked S. HART	Authorised A. JAFARI							Drawing Number 59590.007			
		General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineered Document Reference A121687627		Project Identifier\CAD File Name QuotaPrk.010.33423\TYP5							
		Records File Number PN13586/46/10		Survey Folder Number D7478		1 ISSUED FOR CONSTRUCTION				G. MAXWELL GM 24/06/26			
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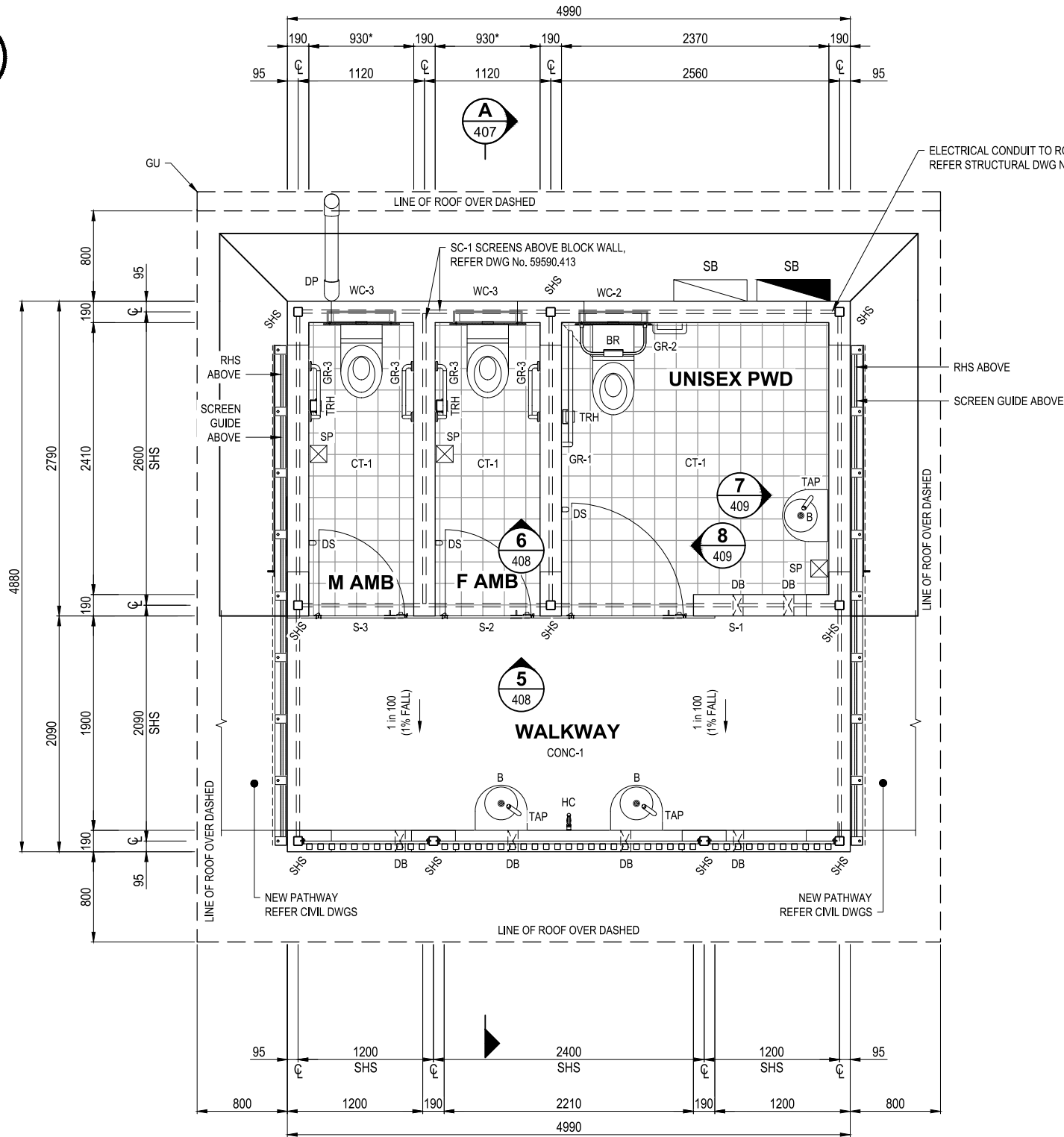
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TYPICAL PUBLIC TOILET BLOCK - FIXTURES AND FITTINGS SCHEDULE					
CODE	DESCRIPTION	MANUFACTURER	COLOUR	FINISH	LOCATION
FLOOR					
CONC-1	COLOURED CONCRETE, CCS	CCS	ONYX 44	BROOM FINISH, SLIP RESISTANT TROWEL SMOOTH FINISH TO SLAB EDGES USING 75mm EDGING TOOL WITH 5mm RADIUS	ONYX44 - CONCRETE SLAB IN WALKWAY
EXT-CONC-1	EXTERNAL CONCRETE PATHS	CCS	6% CCS DESERT BUFF IN GREY CEMENT TO MATCH EXISTING	BROOM FINISH, SLIP RESISTANT TROWEL SMOOTH FINISH TO SLAB EDGES USING 75mm EDGING TOOL WITH 5mm RADIUS	DESERT BLUFF - EXTERNAL CONCRETE PATH & CONCRETE EDGE
CT-1	VITRA DOTTI (200 x 200mm) TILE - DAVCO EPOXY GROUT "SILVER GREY"	VITRA	DARK GREY	DOTTI GREY MERCARTO R11	INTERNAL FLOOR TILES
WALLS/DOORS					
BLK-1	HONED 200 SERIES CONCRETE BLOCKS (390L X 190H X 190W) USE A GREY CEMENT MORTAR	AUSTRAL MASONRY	PEWTER	HONED WITH ANTI GRAFFITI FF-O	ALL WALLS
CBLK	HONED 200 SERIES CONCRETE CAPPING TILE (390L X 40H X 190W) USE A GREY CEMENT MORTAR	AUSTRAL MASONRY	PEWTER	HONED WITH ANTI GRAFFITI FF-O	CAPPING TO FRONT HALF WALL
DOORS	22mm MARINE PLY, DOOR HARDWARE: METLAM NO209 SS SPRING HINGES (4 NO), SERIES ML700 LATCH LOCK	WISA-BIRCH / METLAM	VARIES	PAINT FINISH	CUBICLE DOORS
DOOR PANELS	22mm MARINE PLY DOOR CONNECTION PANELS	-	COLORBOND - BASALT C30 (LRV 15)	PAINT FINISH	CUBICLE DOOR CONNECTION PANELS
CEILING / ROOF					
EXO	SOFFIT (EXOTEC)	JAMES HARDIES	COLORBOND - SURFMIST LVR 65% *	PAINT FINISH	CEILINGS, SOFFITS
FAS	FASCIA (EXOTEC)	JAMES HARDIES	COLORBOND - BASALT C30 (LRV 15) *	PAINT FINISH	ROOF/CEILING
MSR	TRIMDEK 0.48BMT	LYSAGHT	COLORBOND - BASALT LVR 65% *	COLORBOND ULTRA	ROOF
BC	LYSAGHT FLASHING BARGE CAPPING	LYSAGHT	COLORBOND - BASALT LVR 65% *	COLORBOND ULTRA	BARGE CAPPING
GU	EAVES WATER SYSTEM (PH: 1800 032 837) GUTTER (NOTE: EXTENDED LEAD TIMES MAY APPLY)	LYSAGHT	COLORBOND - BASALT LVR 65% *	COLORBOND ULTRA	GUTTERS
DP	100mm UPVC		COLORBOND - BASALT LVR 65% *	PAINT FINISH	DOWN PIPES
VP	50mm DWV UPVC		COLORBOND - BASALT LVR 65% *	PAINT FINISH	VENT PIPE
FIXTURES					
B	WASH BASIN: MODEL NO SPPL-WB-SR2.DA.NSB	STODDART	STAINLESS STEEL	BRUSHED STAINLESS STEEL	CUBICLES
BR	BACK REST (SPPL.GR.BT.35)	STODDART	STAINLESS STEEL	SATIN STAINLESS STEEL	UNISEX PWD
CIS	INVISI SERIES II 4.5/3 LITRE CONCEALED CISTERN (CIS) BY CAROMA WITH MODEL #237011C BLUE PUSH BUTTONS INSTALLED INTO GALVANISED CISTERN CASING (CIS-CA). CISTERN COVER PLATE (CIS-C): 3mm THICK 304 STAINLESS STEEL FIXED WITH ANTI TAMPER FITTINGS.	CAROMA	STAINLESS STEEL	SATIN CHROME/ BRUSHED	CUBICLES
GR-1	MODEL NO SPPL. GR. 05.956 (LEFT OR RIGHT HAND TO SUIT AS 1428.1:2021)	STODDART	STAINLESS STEEL	STAINLESS STEEL	UNISEX PWD
GR-2	MODEL NO SPPL. GR. 00.300	STODDART	STAINLESS STEEL	STAINLESS STEEL	UNISEX PWD
GR-3	MODEL NO. SPPL. GR. BTC. AM45 PAIR	STODDART	STAINLESS STEEL	STAINLESS STEEL	CUBICLES - AMBULANT TOILETS
DS	DOOR STOP - REFER ARCHITECTURAL DRG 412	CUSTOM	STAINLESS STEEL	STAINLESS STEEL	REFER ARCHITECTURAL PLAN & DETAIL
HC	HOSE COCK	STANDARD TAMPER PROOF HOSE COCK	CP/BRASS	CP/BRASS	EXTERNAL WALLS
PP	PULL AND PUSH PLATE ALLEGION MODEL NO. DAXPH300COMBSSS-15 - AVAILABLE FROM SPL 07 5588 8111 (CONCEALED FIXED THROUGH DOOR)	ALLEGION	STAINLESS STEEL	STAINLESS STEEL	ALL DOORS
MS	METLAM NO209 SS SPRING HINGES (4 NO), SET TO HOLD THE DOOR OPEN	METLAM	STAINLESS STEEL	STAINLESS STEEL	DOORS
MI-AMB	METLAM 700 SERIES AMBULANT BUMPER/LOCK INDICATOR SET	METLAM	STAINLESS STEEL	STAINLESS STEEL	AMBULANT M & F DOORS ONLY
MI-PWD	METLAM 600 SERIES CONCEALED FIX SLIDE LOCK INDICATOR SET	METLAM	SATIN CHROME	DIE-CAST ZINC ALLOY ZP3	PWD DOOR ONLY
SP	SHARPS CONTAINER	CoGC SUPPLIED	YELLOW	STEEL	REFER ARCHITECTURAL PLANS & DETAILS
TAP	ENWARE TELABIE TEMPOSOFT TME FLOWBASIN - PRODUCT CODE: TFC740510	ENWARE	CHROME	CHROME	BASIN
WC-2	TOILET PAN: WALL FACE EXTENDED. MODEL NO SPPL-TP-WF.4.D	STODDART	STAINLESS STEEL	BRUSHED STAINLESS STEEL	UNISEX PWD CUBICLE
WC-3	TOILET PAN: WALL FACE EXTENDED. MODEL NO SPPL-TP-WF.4.A	STODDART	STAINLESS STEEL	BRUSHED STAINLESS STEEL	AMBULANT CUBICLES
TRH	TOILET ROLL HOLDER - PRINCIPAL SUPPLIED, REFER SUPERINTENDENT'S REPRESENTATIVE	CUSTOM	STAINLESS STEEL	STAINLESS STEEL	CUBICLES
SIGNAGE					
S-1	MODEL NO.VIS - UAT - LH	VISUALISE	ANODISED	ALUMINIUM	UNISEX PWD - HAND TRANSFER
S-2	MODEL NO.VIS - FFAAT	VISUALISE	ANODISED	ALUMINIUM	FEMALE AMBULANT
S-3	MODEL NO.VIS - MMAAT	VISUALISE	ANODISED	ALUMINIUM	MALE AMBULANT
PAINTING					
PF-1	DULUX EXTERIOR WEATHERSHIELD	DULUX	COLORBOND - BASALT C30 (LRV 15)	SEMI GLOSS	ROOF, FASCIA, GUTTERS AND DOWN PIPE
PF-2	DULUX EXTERIOR WEATHERSHIELD	DULUX	COLORBOND - SURFMIST C1 (LRV 70)	LOW SHEEN	CEILINGS, SOFFITS
PF-3	DULUX EXTERIOR WEATHERSHIELD	DULUX	GREEN SPUCE - S20C5 (LRV 32)	LOW SHEEN	MALE & FEMALE DOORS
PF-4	DULUX EXTERIOR WEATHERSHIELD	DULUX	GREEN ASH - S20B1 (LRV 66)	LOW SHEEN	UNISEX PWD DOOR
SCREENS					
SC - 1	SECURITY MESH SCREEN - LOCKER WIRE SCREEN 1'KON 511' OR SIMILAR - REFER ARCHITECTURAL DWG 413	WEBFORGE	BLACK - UV PROTECTED	POWDERCOAT	REFER ARCHITECTURAL PLANS & DETAILS
SC - 2	CUSTOM SLIDING GATE ALUMINIUM - DECORATIVE PERFORATED ALUMINIUM, REFER TO SPECIFICATION FOR PATTERN. GATE TRACK SYSTEM - FROM VATER HARDWARE TRACK - EM1SS MATCHED WITH EH13LP CARRIAGE AND EC40 STOP ENDS	-	COLORBOND - SURFMIST C1 (LRV 70)	POWDERCOAT - DURATEC	REFER ARCHITECTURAL PLANS & DETAILS
SC - 3	KNOTWOOD (ULLRICH) SCREEN - BOX SECTIONS 50x50x2mm AND 38x15mm SLAT WITH MATCHING END CAPS, FIXED WITH 20mm SPACINGS, FIXED BEHIND (COMMON SPACE) WITH 5mm DIAMETER POP RIVETS	KNOTWOOD	SPRUCE	WOODGRAIN	REFER ARCHITECTURAL PLANS & DETAILS
ALL EQUIVALENT PRODUCTS PROPOSED NEED TO BE APPROVED BY OFFICE OF CITY ARCHITECT / CCR REPRESENTATIVE THROUGH THE SUPERINTENDENT * LRV - LIGHT REFLECTIVE VALUE IN %					

NOTE:
CONFIRM ALL FINISHES AND MATERIALS LEAD TIME PRIOR TO STARTING CONSTRUCTION.
SOME ITEMS MAY REQUIRE UP TO 8 WEEKS NOTIFICATION BEFORE DELIVERY TO SITE.

	Infrastructure Gold Coast Engineering, Design and Standards		Drafted J. PARADA	Engineered S. KHAJEZHDEH						Bar Scales	NOT TO SCALE	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY	Project Number 33423	
			Designed J. PARADA	Certified N. DANG RPEQ 16272									Sheet of 1 13	Issue 1
			Design & Drafting Checked S. HART	Authorised A. JAFARI									Drawing Number 59590.401	
			Project Identifier*-CAD File Name QuotaPrk.010.33423*-ARCH											
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineered Document Reference A121687627	Records File Number PN13586/46/10	Survey Folder Number D7478	1	ISSUED FOR CONSTRUCTION	N. DANG					
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											Do not scale, use figured dimensions only		ARCHITECTURAL FINISHES, FIXTURES AND FITTING SCHEDULE	

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FLOOR PLAN
SCALE 1:25

NOTES:

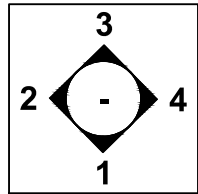
- BUILDING TO COMPLY WITH AS 1428.1
- UNO CONCRETE & FLOOR TILE FALLS:
 - RANGE 1:40 - 1:80,
 - TYPICAL 1:60.
 - REFER SPECIFICATIONS FOR ADDITIONAL FLOOR FALL DETAILS.
- GRADE ALL FLOORS TO ENSURE NIL PONDING.
- PLUMBER TO CHECK & VERIFY ALL SETOUT DIMENSIONS PRIOR TO STARTING WORKS.

NOTE:

- * 930 WIDTH IS REQUIRED FOR DDA ACCESS REQUIREMENTS. WALLS DO NOT ALIGN WITH A STANDARD BLOCKWORK COURSE UNIT SO WALLS CANNOT BE TOOTH CONNECTED. CUT END SHELLS AS REQUIRED TO ACHIEVE COLUMN FIT. REFER STRUCTURAL DRAWINGS.

LEGEND:

- | | |
|----------|--|
| AS - | TO COMPLY WITH RELEVANT AUSTRALIAN STANDARD |
| AMB - | AMBULANT |
| B - | BASIN |
| BC - | BARGE CAPPING |
| BCT - | BABY CHANGE TABLE |
| BLK - | CONCRETE BLOCKWORK |
| BR - | BACK REST |
| BRK - | BRICKWORK |
| CBLK - | CAPPING BLOCK |
| CC - | COLORBOND CAPPING |
| CFC - | COMPRESSED FIBRE CEMENT SHEET |
| CIS - | CISTERN |
| CIS-C - | SS CISTERN COVERPLATE (SPECIAL) |
| CIS-CA - | CISTERN CASING |
| CONC - | CONCRETE |
| COS - | CONCRETE SLAB CONC CHECK ON SITE |
| CT - | CERAMIC TILES |
| DB - | DRAINAGE BLOCKOUT |
| DP - | DOWN PIPE |
| DS - | DOOR STOP |
| EXO - | SOFFIT - EXOTEC |
| EXT - | EXTERIOR |
| FAS - | FASCIA - EXOTEC |
| FFL - | FINISHED FLOOR LEVEL |
| FH - | FULL HEIGHT |
| GALV - | GALVANIZED |
| GL - | GROUND LINE - APPROXIMATE ONLY |
| GR - | GRAB RAIL |
| GU - | GUTTER |
| HC - | HOSE COCK |
| MF - | METAL FLASHING |
| Mi - | 'METLAM' INDICATOR |
| MS - | 'METLAM' SPRING-HINGE |
| MSR - | METAL SHEET ROOFING |
| PF - | PAINT FINISH |
| PL - | PLATFORM LEVEL |
| PP - | SS PUSH-PULL PLATE (PUSH-EXT. PULL-INT.) |
| PTN - | PARTITION |
| PWD - | PEOPLE WITH DISABILITIES |
| R - | CEMENT RENDER |
| RH - | ROBE HOLDER/DOOR STOP UNIT |
| S - | SIGNAGE |
| SB - | SWITCHBOARD |
| SC - | SCREEN |
| SD - | STRIP DRAIN |
| SHS - | SQUARE HOLLOW SECTION |
| SP - | SHARPS CONTAINERS (YELLOW) |
| STN - | STONEWORK |
| TAP - | TIME FLOW TAP |
| TORC - | TOP OF ROUNDED CAPPING |
| TRH - | TOILET ROLL HOLDER |
| TOB - | TOP OF BLOCKWORK |
| TSL - | TOP OF SLAB (STRUCTURAL UNO) |
| U/S - | UNDERSIDE |
| VG - | VERTICAL GRAB RAIL |
| WC - | WATER CLOSET |
| -XXX | DENOTES VARIANT XXX, E.G. BLK-1 IS BLOCKWORK, TYPE 1 AS DEFINED IN THE FIXTURES AND FITTINGS SCHEDULE. |



**ELEVATION
REFERENCE**



Infrastructure Gold Coast
Engineering, Design and Standards

General Manager Engineering, Design and Standards
(Chief Engineer)
J. WAGNER

Certified Engineered Document Reference
A121687627

Drafted
J. PARADA

Designed
J. PARADA

Design & Drafting Checked
S. HART

Project Identifier/CAD File Name
QuotaPrk.010.33423-I-ARCH

Records File Number
PN13586/46/10

Engineered
S. KHAJEHZADEH

Certified
N. DANG RPEQ 16272

Authorised
A. JAFARI

Survey Folder Number
D7478

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Issue

Description *

N. DANG

Name

ND

Initial

24/06/26

Date

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Bar Scales



SCALE 1:25

@ A1

**MARINE PARADE, BIGGERA WATERS
QUOTA PARK
NEW AMENITIES FACILITY**

ARCHITECTURAL
FLOOR PLAN AND LEGEND

Project Number

33423

Sheet of

2 13

Issue

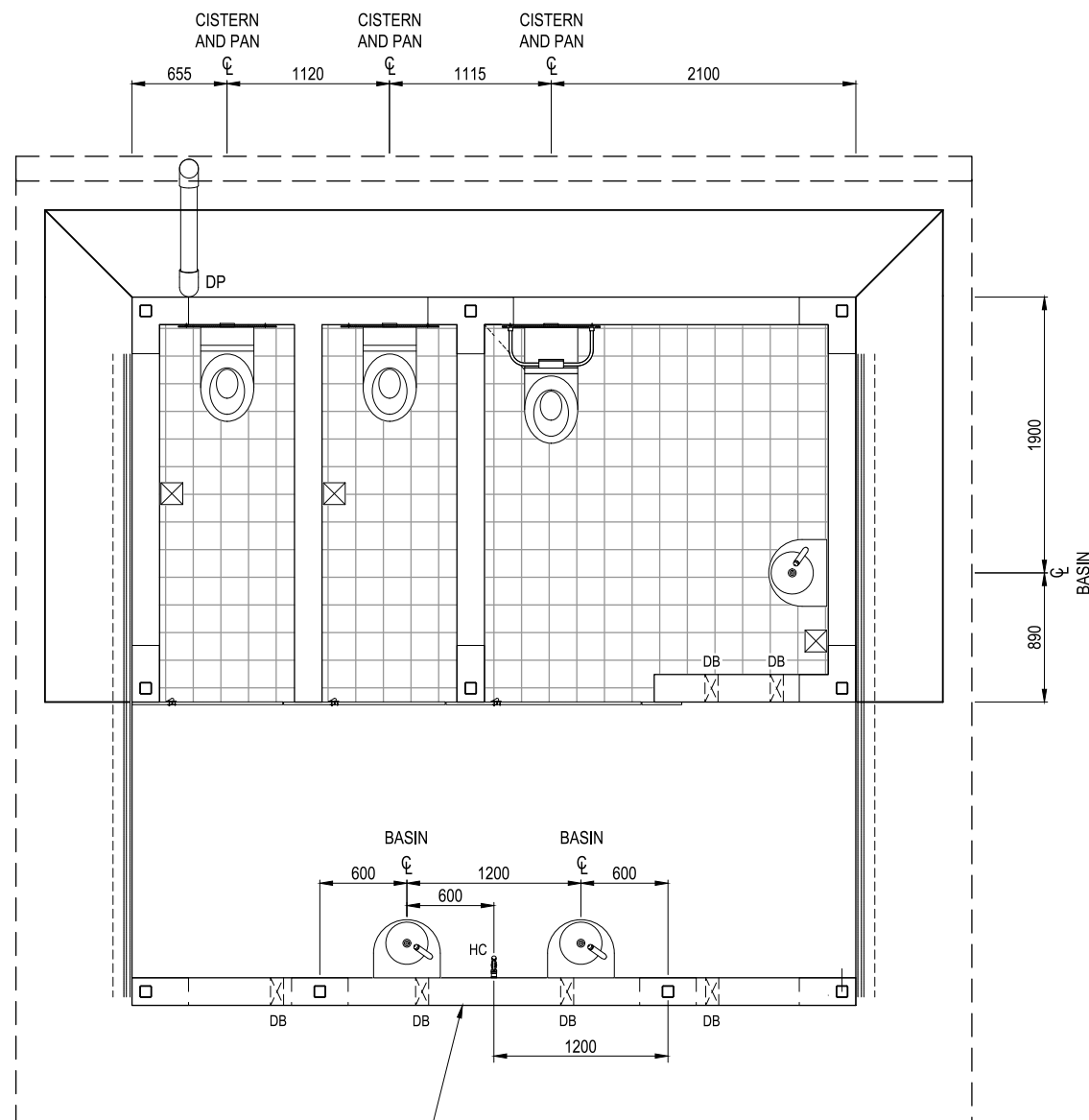
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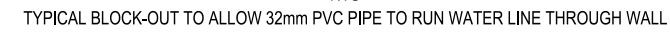
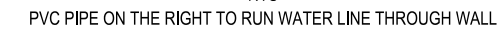
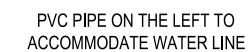
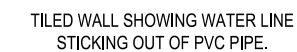
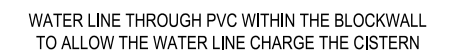
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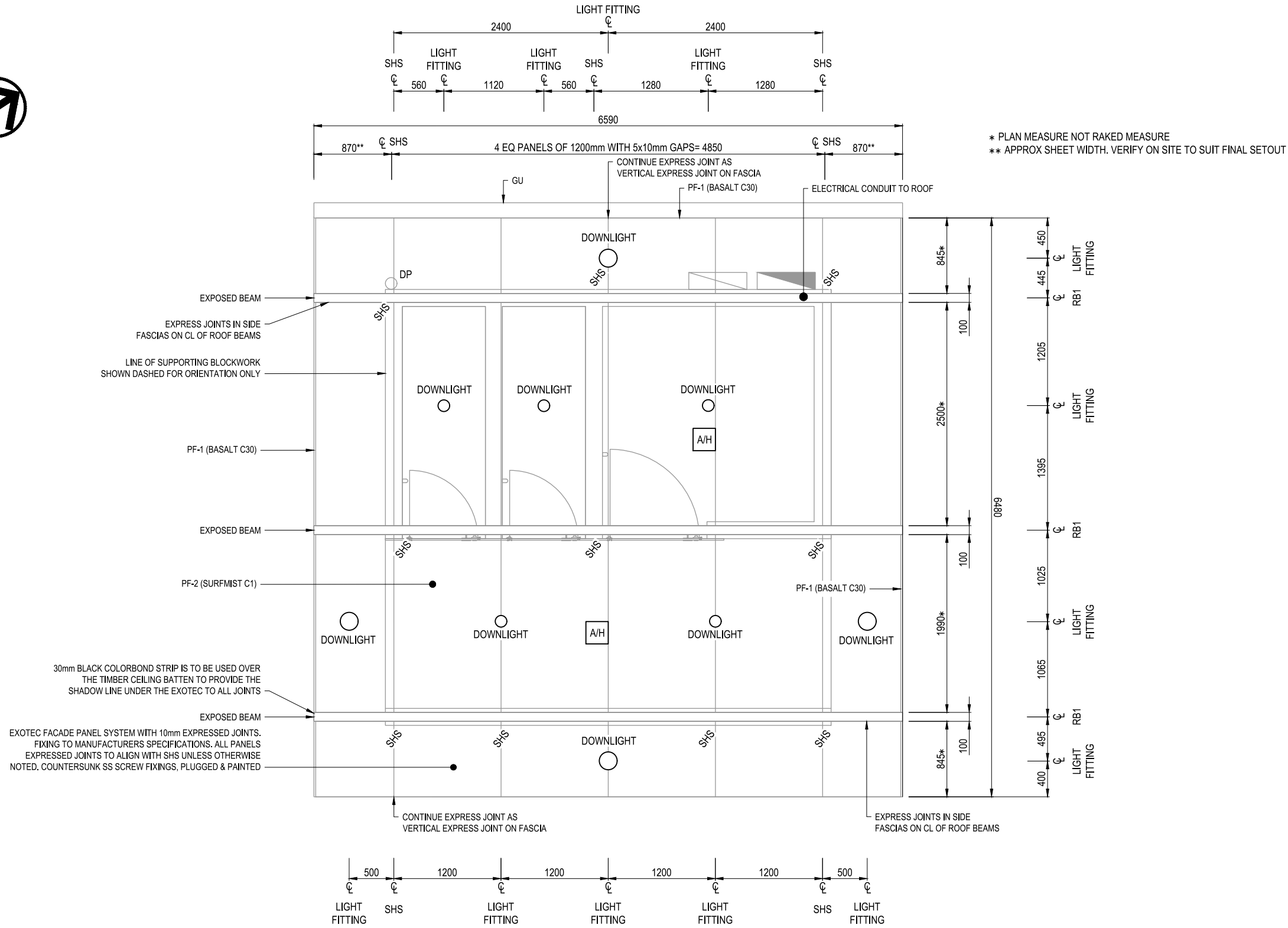
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SLAB & PLUMBING LAYOUT PLAN
SCALE 1:25



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REFLECTED CEILING PLAN
SCALE 1:25

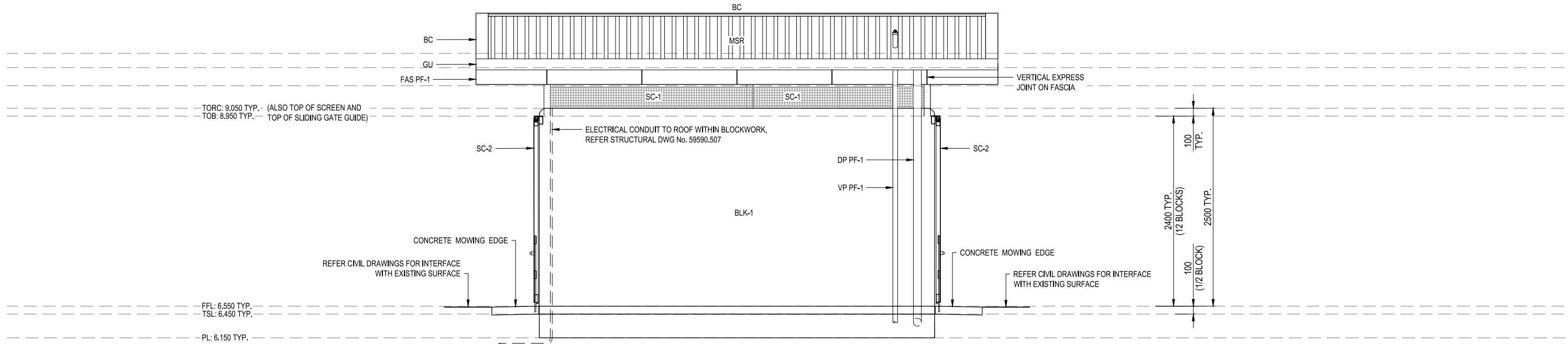
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<div><div>CITY OF</div><div>GOLDCOAST™</div></div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>	<div>General Manager Engineering, Design and Standards (Chief Engineer)</div> <div>J. WAGNER</div>	<div>Certified Engineered Document Reference</div> <div>A121687627</div>	<div>Project Identifier/CAD File Name</div> <div>QuotaPrk.010.33423\ARCH</div>	<div>Records File Number</div> <div>PN13586/46/10</div>	<div>Survey Folder Number</div> <div>D7478</div>	<div>1</div> <div>ISSUED FOR CONSTRUCTION</div> <div>Issue</div>	<div>N. DANG</div> <div>Name</div>	<div>ND</div> <div>Initial</div>	<div>24/06/26</div> <div>Date</div>	<div>Bar Scales</div> <div>0 0.5 1 1.5m</div> <div>SCALE 1:25 @ A1</div> <div>Do not scale, use figured dimensions only</div>	<div>MARINE PARADE, BIGGERA WATERS</div> <div>QUOTA PARK</div> <div>NEW AMENITIES FACILITY</div> <div>ARCHITECTURAL</div> <div>REFLECTED CEILING PLAN</div>	<div>Project Number</div> <div>33423</div>	
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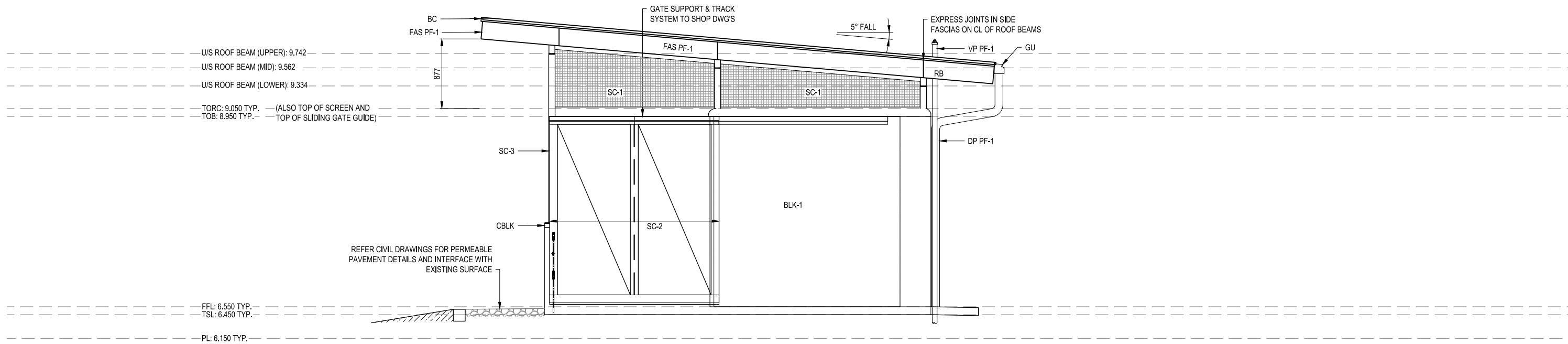
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ELEVATION 1
SCALE 1:25 402



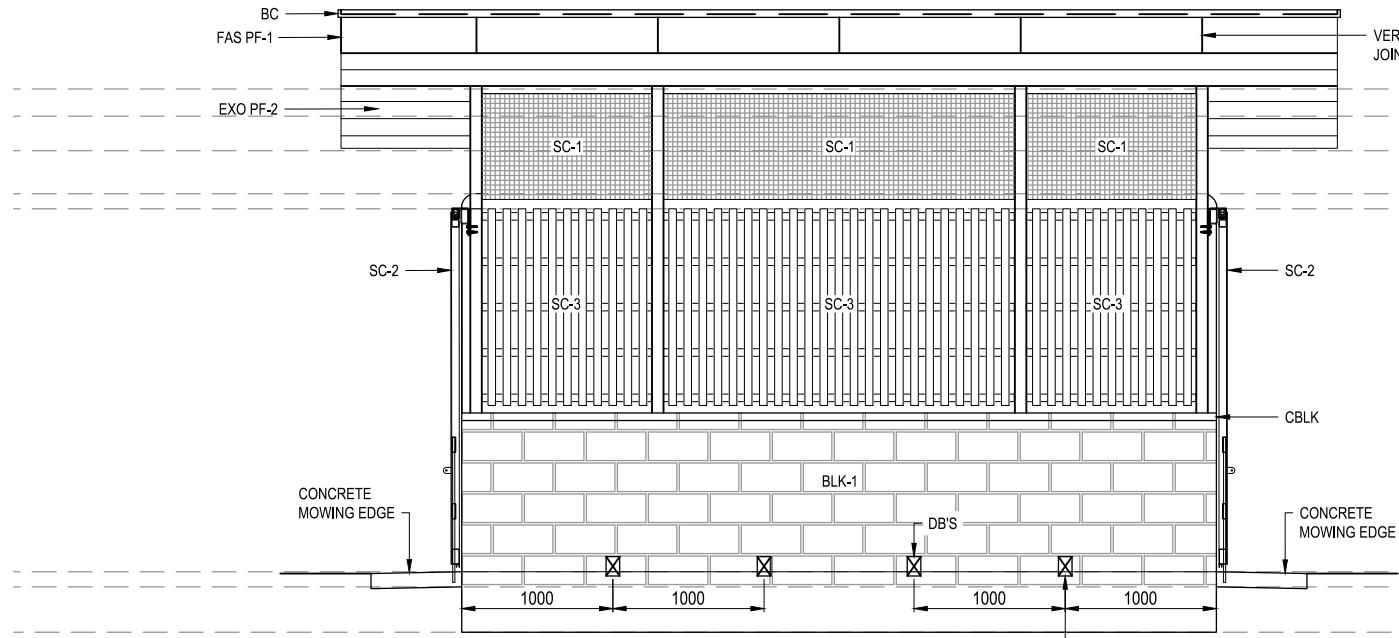
ELEVATION 2
SCALE 1:25 402

	Infrastructure Gold Coast Engineering, Design and Standards	Drafted J. PARADA Designed J. PARADA Design & Drafting Checked S. HART General Manager Engineering, Design and Standards J. WAGNER Certified Engineer Document Reference A121687627	Engineered S. KHAJEHZADEH Certified N. DANG RPEQ 16272 Authorised A. JAFARI Project Identifier/CAD File Name QuotaPrk.010.33423-ARCH Records File Number PN13586/46/10 Survey Folder Number D7478	1	ISSUED FOR CONSTRUCTION	N. DANG	ND	24/06/26	 Do not scale, use figured dimensions only	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY ARCHITECTURAL ELEVATIONS 1 & 2	Project Number 33423 Sheet of 5 13 Drawing Number 59590.405 Issue 1

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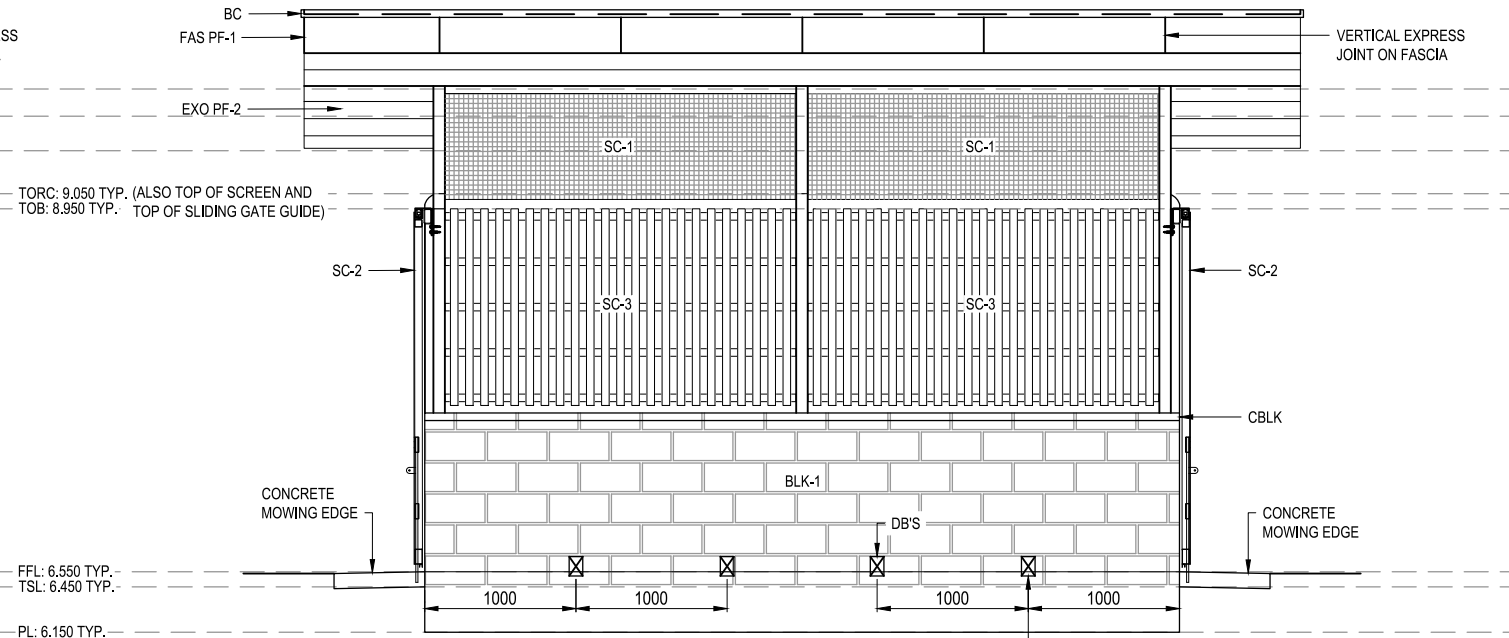
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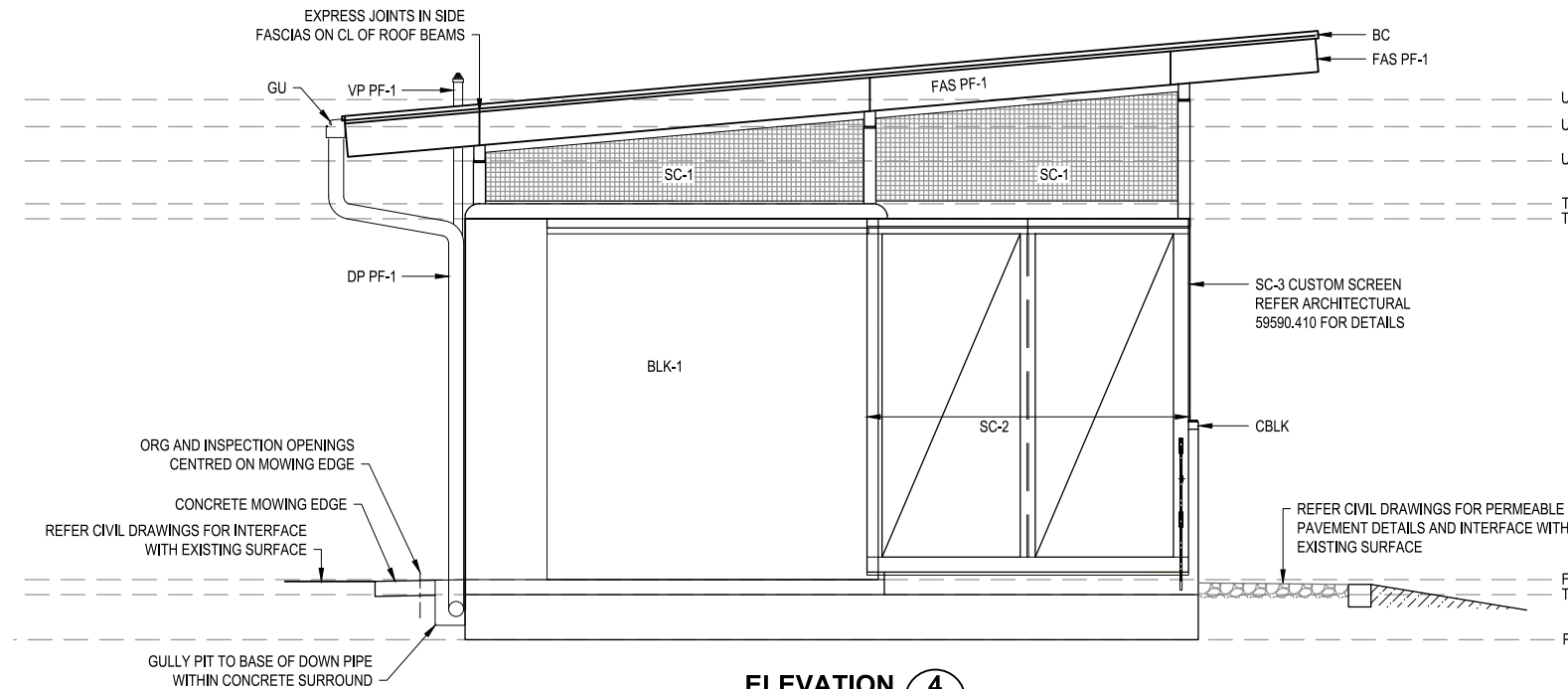
ELEVATION 3
SCALE 1:25
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IMPORTANT:
CONFIRM ON SITE LAYOUT DETAILS SHOWN AND ENSURE WATER SUPPLY INLET AND WASTEWATER OUTLETS POSITIONS CORRESPOND WITH BLOCKWORK CORES BEFORE POURING THE SLAB



ELEVATION 3
SCALE 1:25
402

IMPORTANT:
CONFIRM ON SITE LAYOUT DETAILS SHOWN AND ENSURE WATER SUPPLY INLET AND WASTEWATER OUTLETS POSITIONS CORRESPOND WITH BLOCKWORK CORES BEFORE POURING THE SLAB

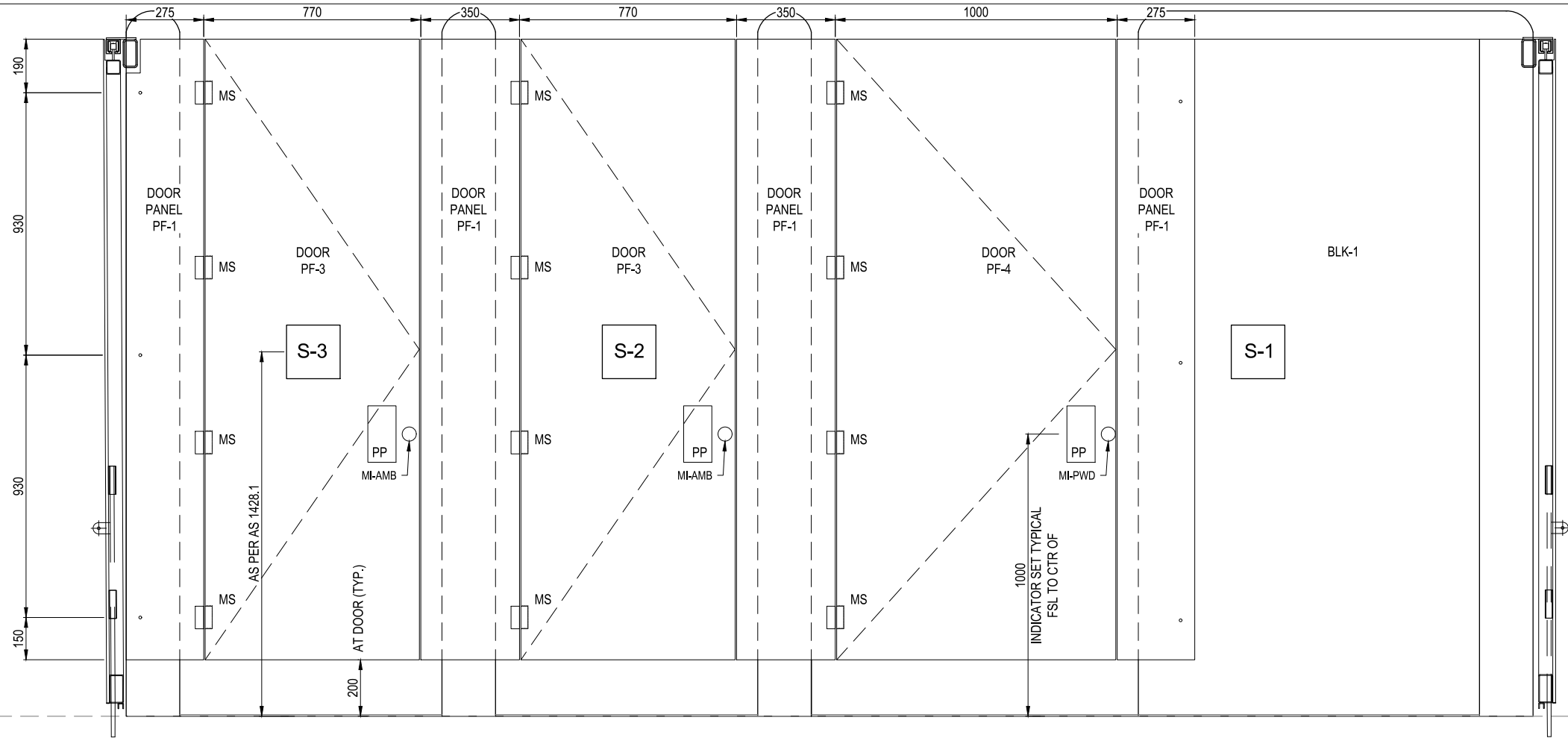


ELEVATION 4
SCALE 1:25
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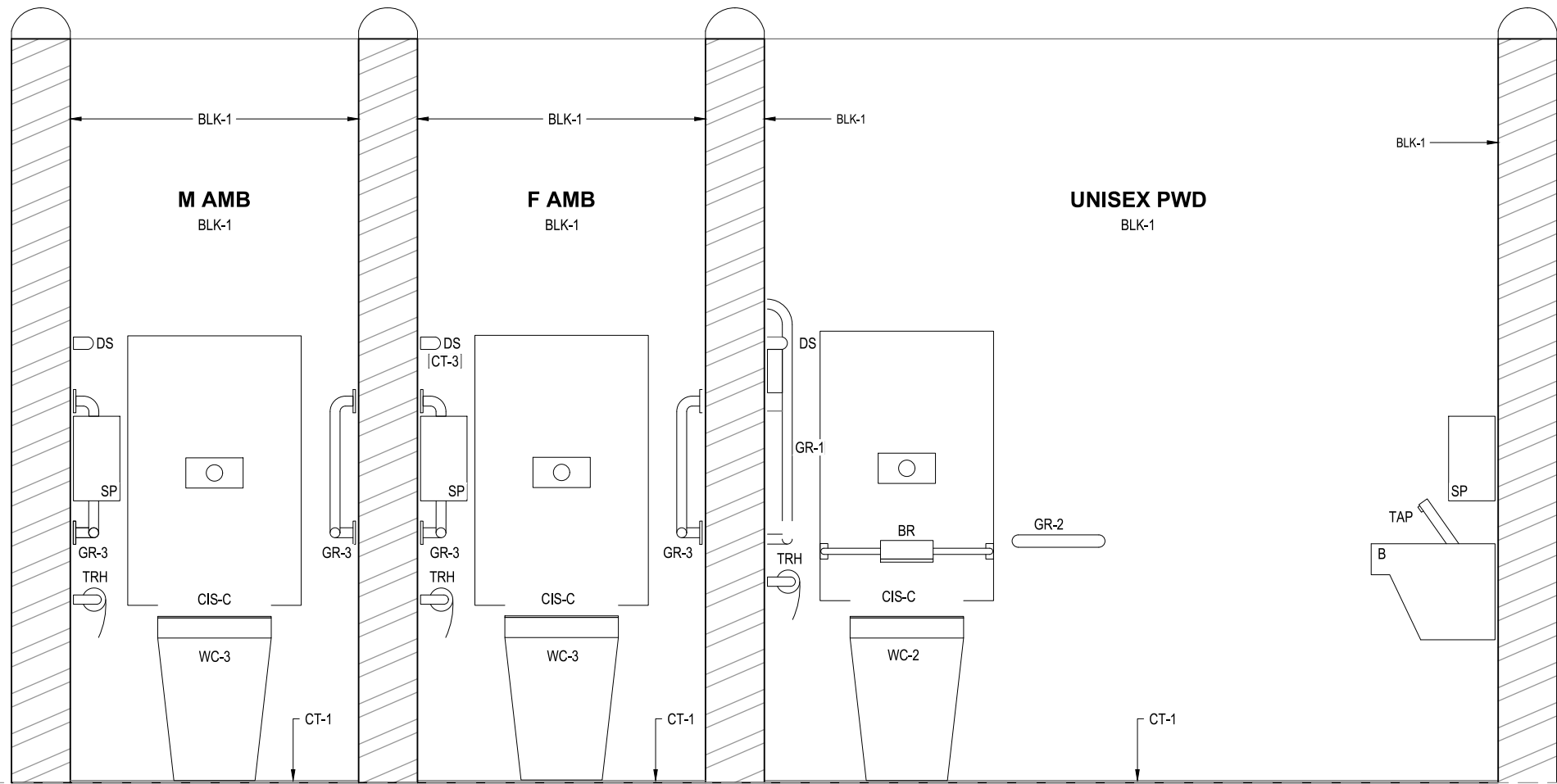
<div>CITY OF GOLD COAST™</div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>		Drafted J. PARADA	Engineered S. KHAJEZHSADEH							<div>Bar Scales</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>00.511.5m</div><div>SCALE 1:25 @ A1</div></div>	<div>MARINE PARADE, BIGGERA WATERS</div> <div>QUOTA PARK</div> <div>NEW AMENITIES FACILITY</div> <div>ARCHITECTURAL</div> <div>ELEVATIONS 3 & 4</div>	Project Number		33423		Sheet of		613		Issue		1								
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineered Document Reference A121687627		Project Identifier-CAD File Name QuotaPrk.010.33423-ARCH		1				ISSUED FOR CONSTRUCTION		N. DANG		ND		24/06/26												
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Records File Number PN13586/46/10				Survey Folder Number D7478				Issue				Description ✖				Name				Initial				Date				Design not to be amended without authorisation by Statutory Certifier			

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ELEVATION 5
SCALE 1:10 402



ELEVATION 6
SCALE 1:10 402



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General Manager Engineering, Design and Standards
(Chief Engineer) J. WAGNER
Certified Engineered Document Reference
A121687627

Drafted
J. PARADA
Designed
J. PARADA
Design & Drafting Checked
S. HART
Project Identifier/CAD File Name
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Records File Number
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Engineered
S. KHAJEHZADEH
Certified
N. DANG RPEQ 16272
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Bar Scales

0 0.2 0.4 0.6m
SCALE 1:10 @ A1

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MARINE PARADE, BIGGERA WATERS
QUOTA PARK
NEW AMENITIES FACILITY

ARCHITECTURAL
INTERNAL WALL ELEVATIONS 5 & 6

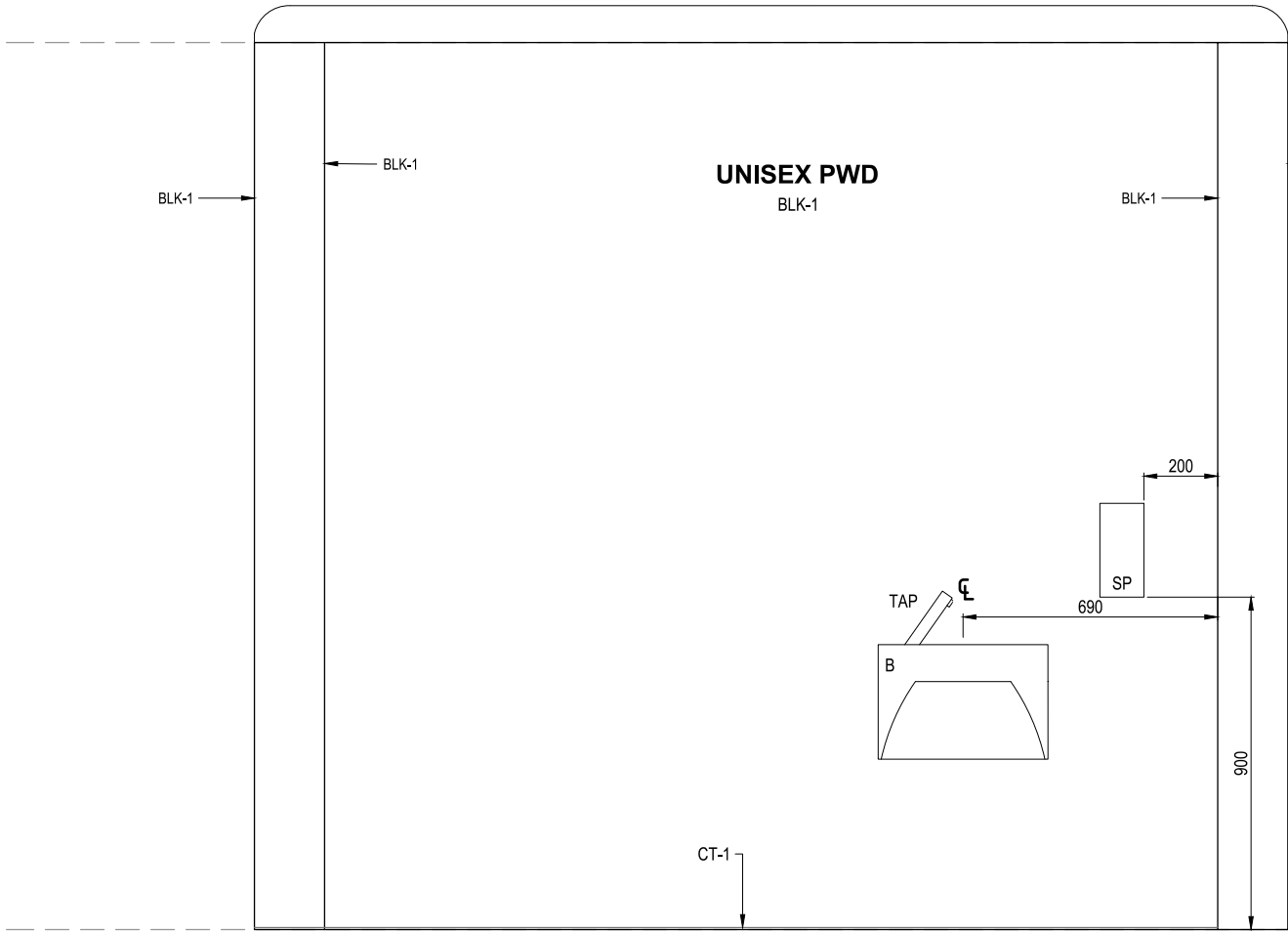
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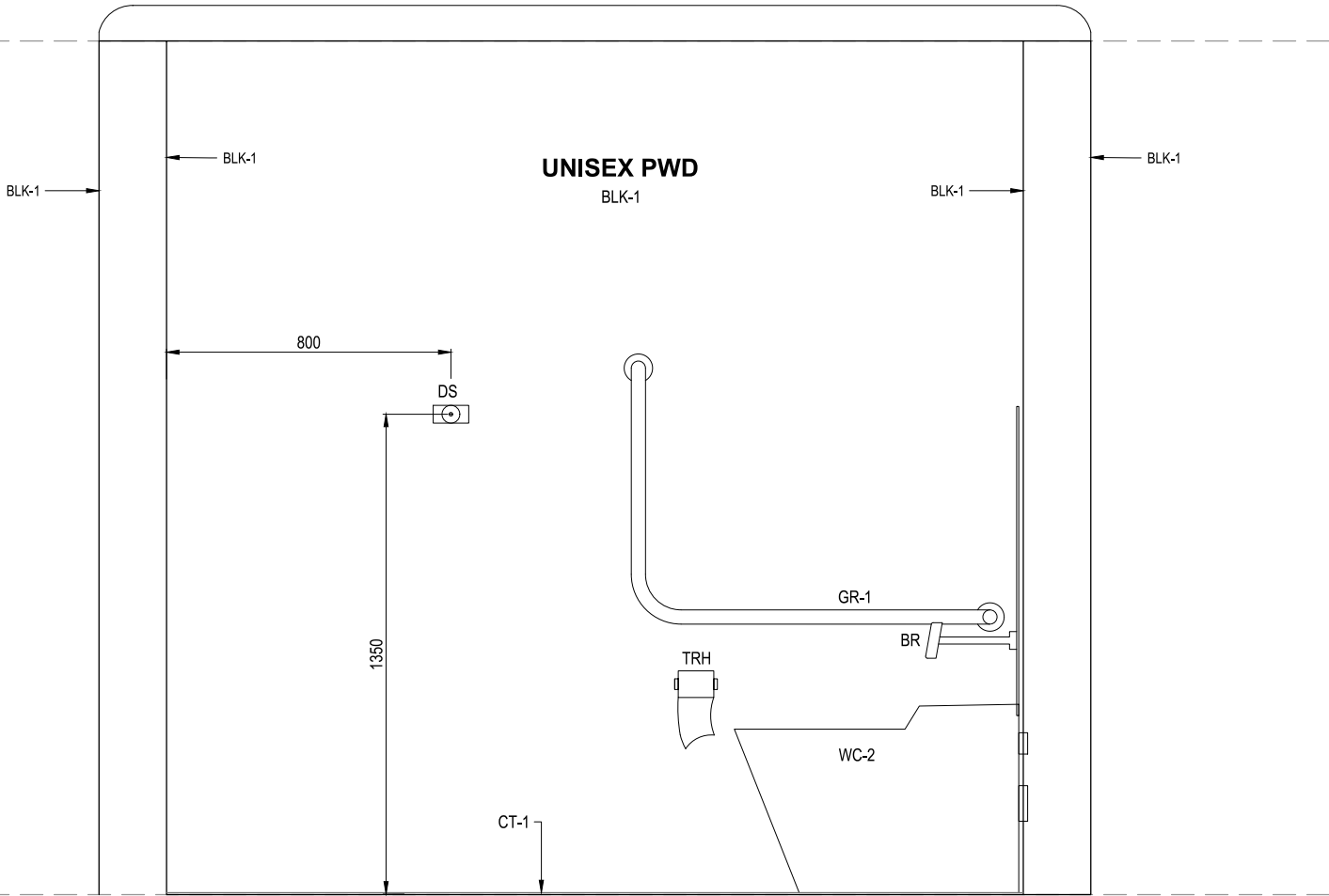
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ELEVATION 7
SCALE 1:10



ELEVATION 8
SCALE 1:10



Infrastructure Gold Coast
Engineering, Design and Standards

General Manager Engineering, Design and Standards
(Chief Engineer)
J. WAGNER

Certified Engineering Document Reference
A121687627

Drafted
J. PARADA
Designed
J. PARADA
Design & Drafting Checked
S. HART

Engineered
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Certified
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Records File Number
PN13586/46/10

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Bar Scales



SCALE 1:10 @ A1

MARINE PARADE, BIGGERA WATERS
QUOTA PARK
NEW AMENITIES FACILITY

ARCHITECTURAL
INTERNAL WALL ELEVATIONS 7 & 8

Project Number

33423

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Drawing Number

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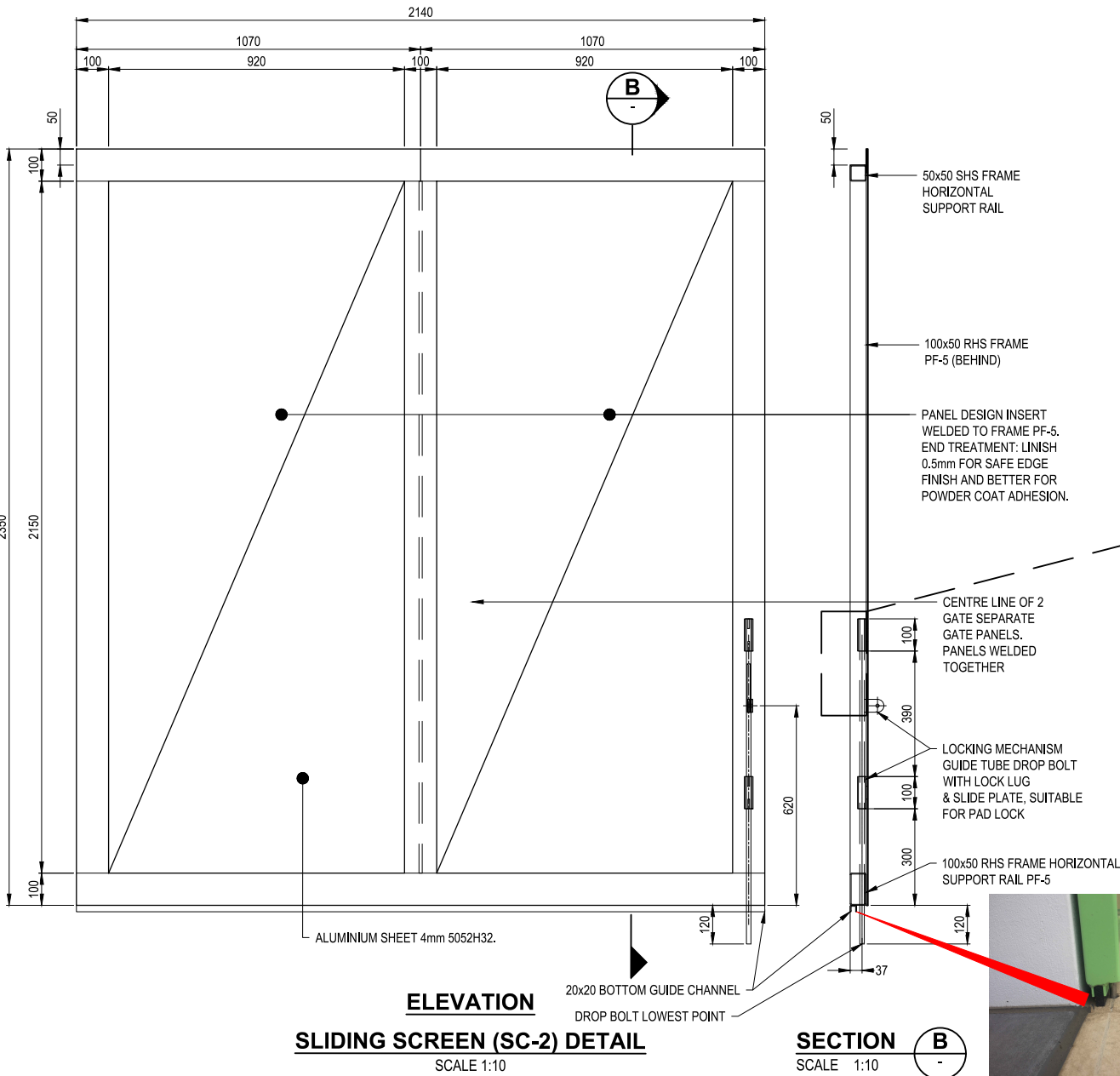
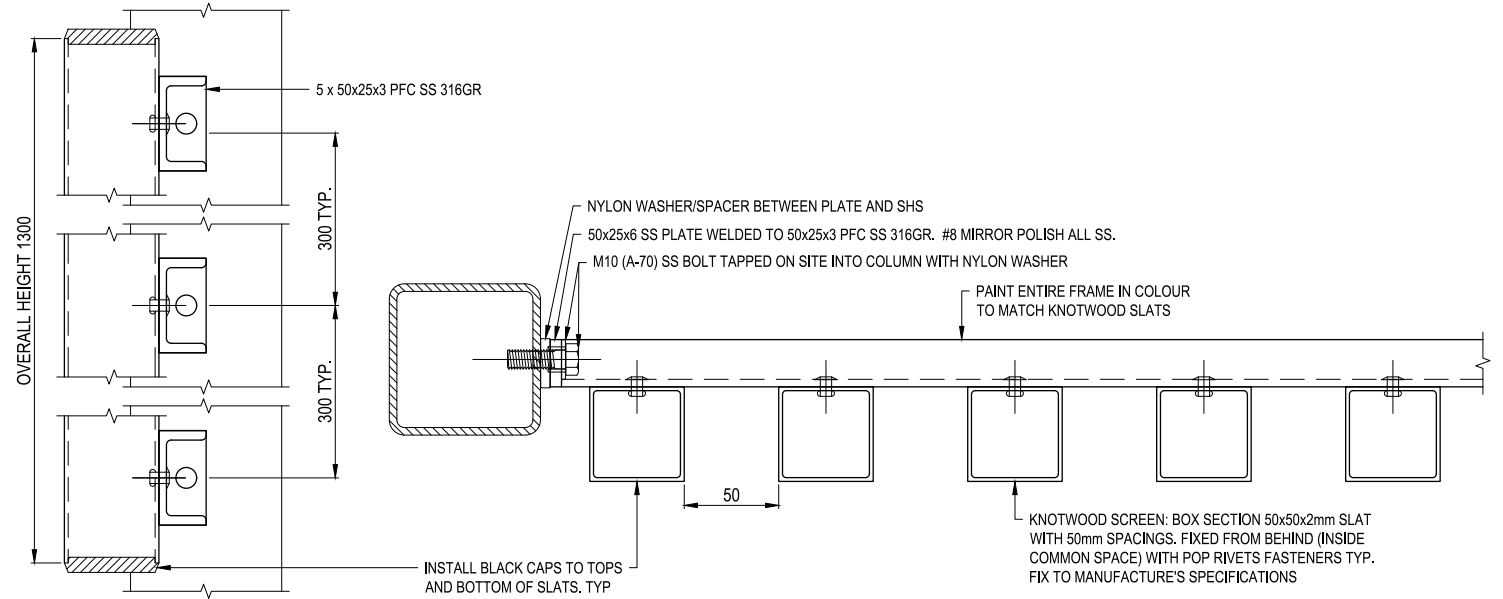
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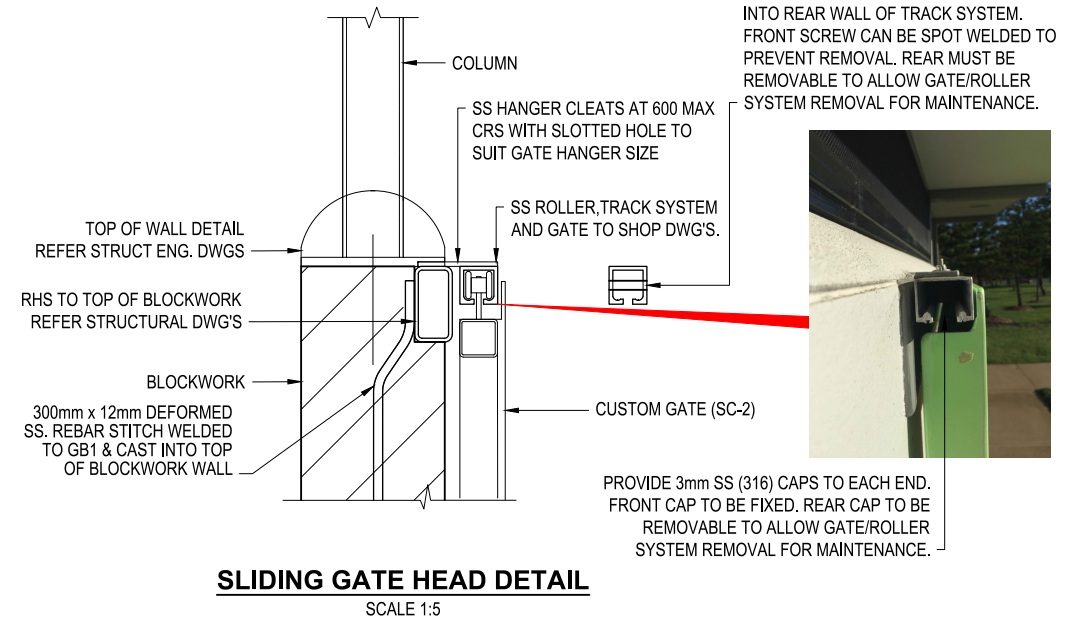
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SCREEN NOTES

1. ALUMINIUM SCREEN STRUCTURE. SCREEN OPENING SIZE AND SPACING ARE ALL NOMINAL ONLY. CHECK ON SITE PRIOR TO MANUFACTURE AND ADJUST TO SUIT. SCREEN GATE MANUFACTURER TO INCLUDE ALLOWANCES IN THE FRAME TO ACCEPT CONNECTION FOR A SLIDING GATE TRACK SYSTEM. SLIDING GATES TO INCLUDE A CONCEALED DROP BOLT SYSTEM WITH 120mm OF THROW. INSTALL A METAL SLEEVE IN THE CONCRETE SLAB TO ACCEPT THE DROP BOLT WHEN LOCKED IN POSITION.
2. SCREEN TO BE VANDAL RESISTANT. SUBMIT SHOP DRAWINGS TO CITY OF GOLD COAST SUPERINTENDENT REPRESENTATIVE FOR APPROVAL PRIOR TO MANUFACTURER & INSTALLATION.



SCREEN SC-3 DETAIL

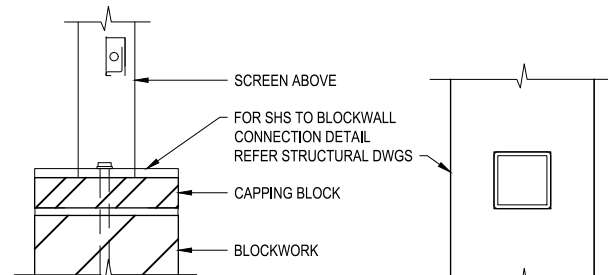


ELEVATION

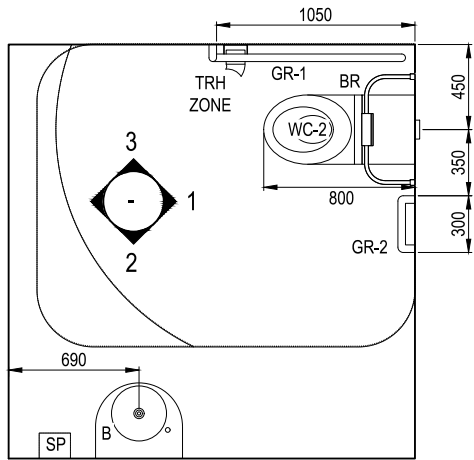
PLAN

CAPPING BLOCK DETAIL

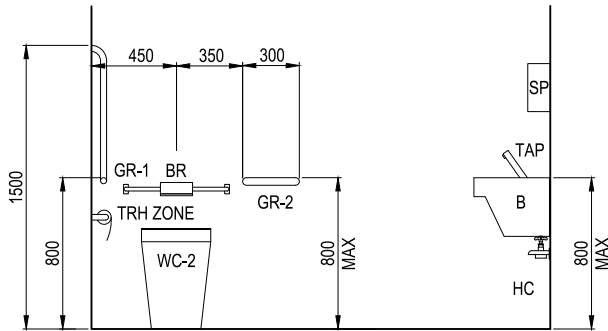
SCALE 1:5



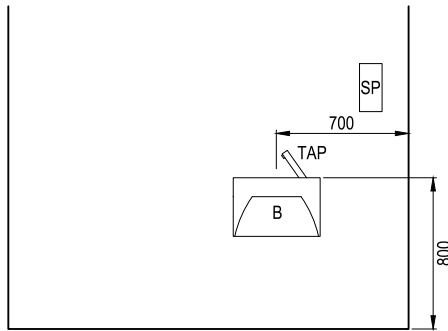
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			Designed J. PARADA	Certified N. DANG RPEQ 16272											Sheet of	Issue		
			Design & Drafting Checked S. HART	Authorised A. JAFARI											1013	1		
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineered Document Reference A121687627		Project Identifier/CAD File Name QuotaPrk.010.33423-I-ARCH											Drawing Number
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Records File Number PN13586/46/10				Survey Folder Number D7478		Issue		Description *		Name		Initial	Date	Do not scale, use figured dimensions only				
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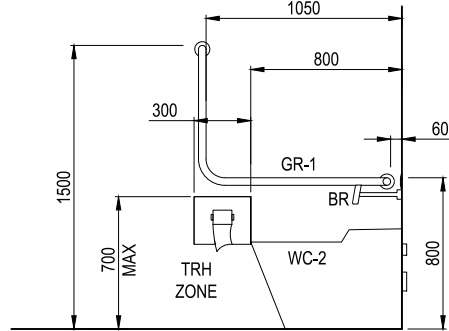
DIAGRAMMATIC PWD
PWD WC PLAN LAYOUT
SCALE 1:20



DIAGRAMMATIC PWD
ELEVATION 1
SCALE 1:20



DIAGRAMMATIC PWD
ELEVATION 2
SCALE 1:20

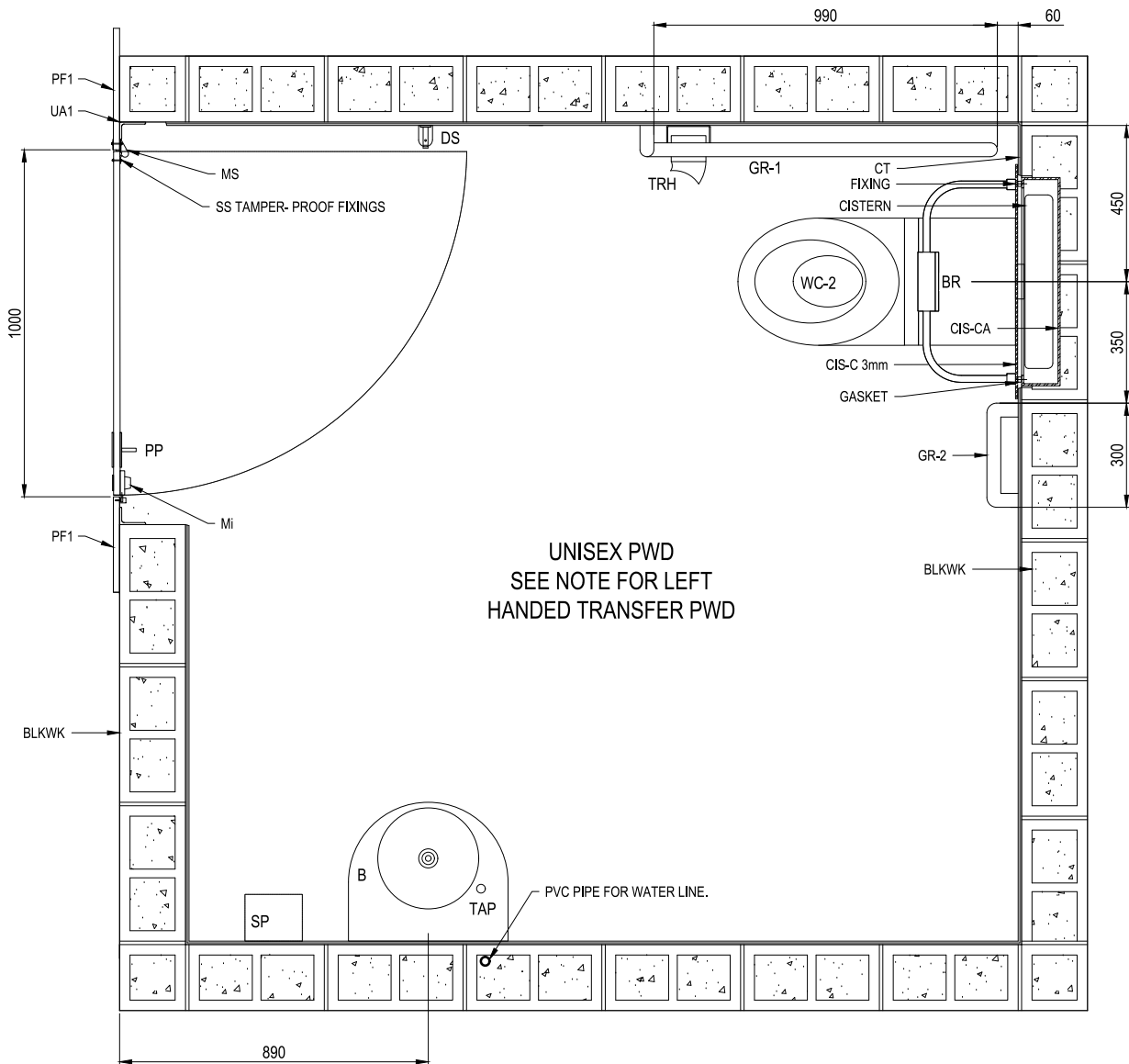


NOTE: FOR PWD CUBICLE - ALL FITTINGS AND FIXTURES TO COMPLY WITH AS1428 & PARTS/SUB-SECTIONS

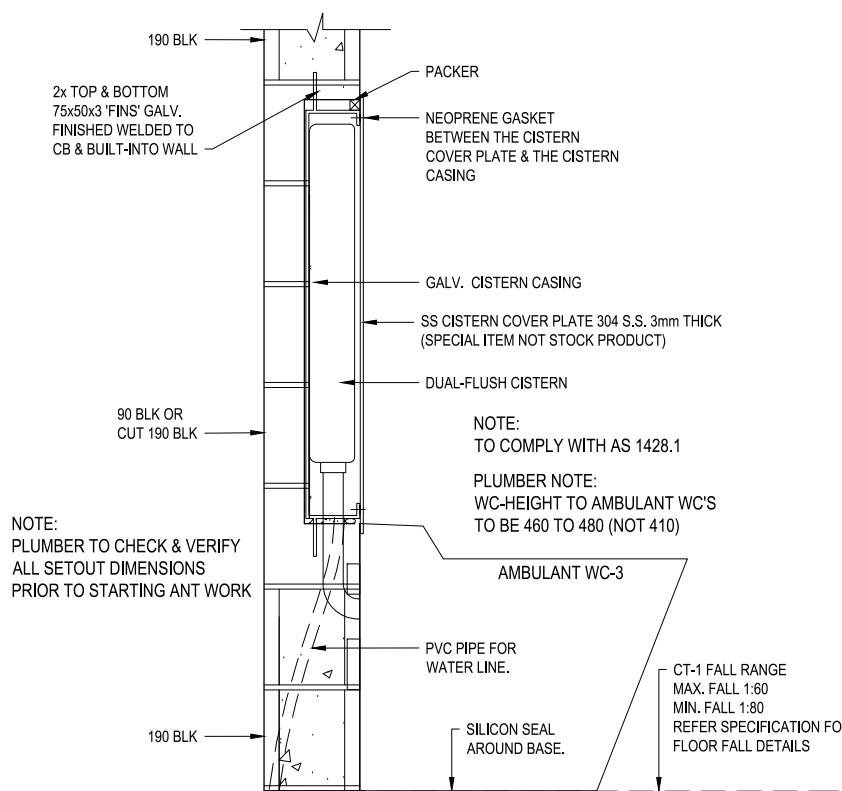
DIAGRAMMATIC PWD
ELEVATION 3
SCALE 1:20

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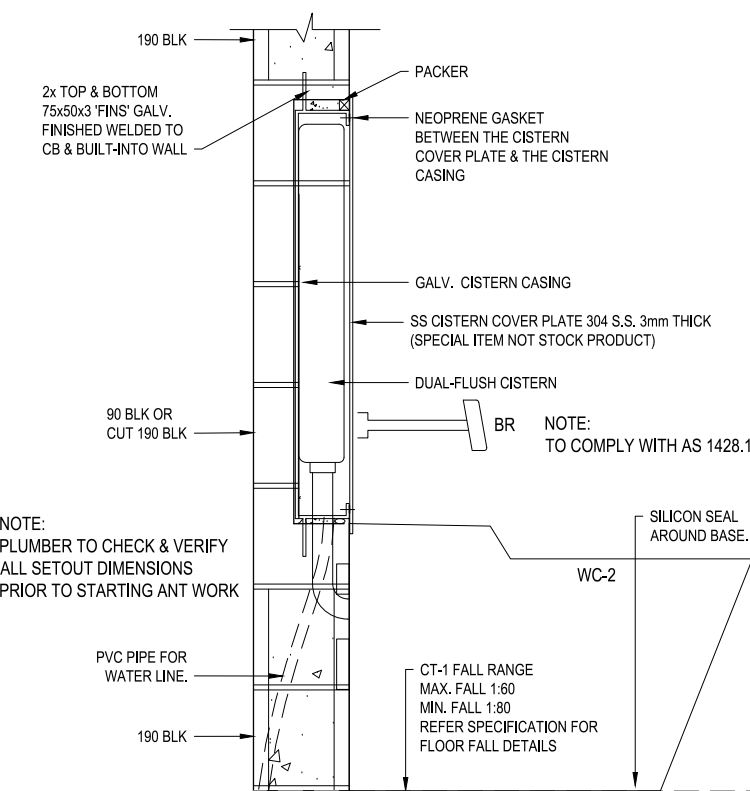
1. THIS DRAWING SHOWS IDEALISED PRODUCT OUTLINES WHICH ARE A DIAGRAMMATIC REPRESENTATION OF THE PRODUCT TYPE. ALL DIMENSIONS ARE ACCURATE REFERENCES TO KNOWN POINTS/LINES ON THE ACTUAL PRODUCTS (EG. A TOP EDGE OR CENTRELINE).



TYPICAL PLAN PWD CUBICLE, CISTERN & GRAB-RAIL DETAIL
SCALE 1:10



DIAGRAMMATIC WC-3 SECTION
SCALE NTS



DIAGRAMMATIC PWD WC-2 SECTION
SCALE NTS

NOTE FOR LEFT HAND TRANSFER:

1. THIS DRAWING SHOWS RIGHT HAND TRANSFER ARRANGEMENTS.
2. THIS PROJECT USES A LEFT HAND TRANSFER ARRANGEMENT, IE. A MIRRORED CONFIGURATION TO WHAT IS SHOWN ON THIS STANDARD DETAILS DRAWING.
3. AS APPLICABLE, ALL MEASUREMENTS SHOWN APPLY TO EITHER A RIGHT HAND OR LEFT HAND TRANSFER CONFIGURATION.

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			Designed J. PARADA	Certified N. DANG RPEQ 16272											Sheet of <div>1113</div>	Issue <div>1</div>
			Design & Drafting Checked S. HART	Authorised A. JAFARI											Drawing Number <div>59590.411</div>	
	General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineered Document Reference A121687627	Project Identifier/CAD File Name QuotaPrk.010.33423-I-ARCH		1	ISSUED FOR CONSTRUCTION		N. DANG	ND					24/06/26		
	Records File Number PN13586/46/10		Survey Folder Number D7478		Issue	Description *		Name	Initial					Date	Design not to be amended without authorisation by Statutory Certifier	
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GENERAL NOTES:

- THESE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES, THE NATIONAL CONSTRUCTION CODE (NCC), AND THE REQUIREMENTS OF THE RELEVANT LOCAL STATUTORY AUTHORITIES' REGULATIONS INCLUDING ALL AMENDMENTS, EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION. ALL OF THE NECESSARY PERMITS AND APPROVALS SHALL BE OBTAINED FROM THE RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION COMMENCING ON SITE.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL SET-OUT DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- ALL REASONABLE PRECAUTION SHALL BE TAKEN TO ESTABLISH THE LOCATION OF AND PROTECT EXISTING SERVICES ON THE SITE. SERVICES SHOWN ON THE DRAWINGS ARE IN THE APPROXIMATE LOCATION ONLY.
- UNLESS DRAWINGS ARE IDENTIFIED AS 'FOR CONSTRUCTION', THEY SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. DO NOT DISTURB AREAS NOT REQUIRED FOR CONSTRUCTION PURPOSES.
- THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SITE SAFETY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. WHERE STRUCTURAL ELEMENTS PRESENT DIFFICULTIES IN RESPECT TO CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ENSURE AN APPROPRIATE REPRESENTATIVE INSPECTS AND HAS RECTIFIED ANY DEFECTS PRIOR TO INSPECTIONS SCHEDULED AND/OR INDICATED WITHIN THE CONTRACT DOCUMENTS AND/OR REQUIRED TO BE UNDERTAKEN FOR THE PURPOSE/S OF BUILDING APPLICATION APPROVAL CONDITIONS, ENGINEERING CERTIFICATION OR PRIOR IDENTIFIED DEFECT CORRECTION. REFER TO SPECIFICATIONS FOR PROJECT INSPECTIONS.
- DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY PROPPING AND/OR BRACING SHALL BE PROVIDED BY THE CONTRACTOR IN ORDER TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. THESE STRUCTURAL DRAWINGS SHALL NOT BE SCALED.
- ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS (AHD DATUM) ARE IN METRES UNLESS NOTED OTHERWISE.

DESIGN CRITERIA:

THE STRUCTURAL COMPONENTS DETAILED ON THESE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT STANDARDS AUSTRALIA CODES AND THE NATIONAL CONSTRUCTION CODE (NCC) FOR THE FOLLOWING LOADINGS:

- 1.1 FLOOR LOADS:
 - LIVE LOAD - 5.0kPa
- 1.2 WIND LOADS TO AS 1170.2:
 - REGION - B1
 - TERRAIN CATEGORY - 1
 - STRUCTURE IMPORTANCE LEVEL - 2
 - Vdes - 56.1 m/s
- EARTHQUAKE LOADS TO AS 1170.4:
 - EDC EARTHQUAKE DESIGN CATEGORY = I
 - Z HAZARD FACTOR = 0.05

FOUNDATION NOTES:

- REFER TO THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT.
- THE SLAB AND FOOTING DESIGN HAS BEEN PREPARED ON THE BASIS THAT THE SITE HAS A CLASSIFICATION OF 'S' TO AS 2870.
- THE ALLOWABLE BEARING CAPACITY OF THE FOUNDING MATERIAL SHALL NOT BE LESS THAN 100kPa. THE FOUNDATION MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THIS ALLOWABLE BEARING CAPACITY PRIOR TO PLACING REINFORCEMENT OR CONCRETE.
- THE BASES OF ALL FOOTING EXCAVATIONS SHALL BE DEWATERED AND FREE OF LOOSE MATERIAL IMMEDIATELY PRIOR TO THE PLACEMENT OF CONCRETE.
- FOOTINGS SHALL BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID EITHER SOFTENING OF THE FOUNDING MATERIAL OR DRYING OUT DUE TO EXPOSURE.
- FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE ON THE SUPERINTENDING DRAWINGS.
- EXCAVATE THE FOOTINGS TO THE NOMINATED SIZE AND DEPTH. FORM EXCAVATIONS AS REQUIRED WHEN FACES ARE UNSTABLE.

REINFORCED CONCRETE NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE CURRENT EDITION OF AS 3600 AND AS 3610.
- FORMWORK SHALL NOT BE DESIGNED TO RELY ON RESTRAINT OR SUPPORT FROM A PERMANENT STRUCTURE UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT.
- CONCRETE QUALITY SHALL BE AS PER AS 1379 AND AS SPECIFIED BELOW:

ELEMENT	EXPOSURE CLASSIFICATION	MINIMUM COVER TO REINFORCEMENT (mm)	CONCRETE GRADE (MPa)	SLUMP	MAXIMUM AGGREGATE SIZE (mm)
SLAB-ON- GROUND EXPOSED TO WEATHER	B2	45	S40	80	20
SLAB-ON- GROUND AGAINST GROUND	B2	65	S40	80	20

- CONCRETE SIZES NOTED ON THE STRUCTURAL DRAWINGS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- ALL RE-ENTRANT CORNERS SHALL BE CHAMFERED AND CORNERS FILLETED BY 20mm UNLESS NOTED OTHERWISE.
- FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC. REFER TO ARCHITECT'S DETAILS. MINIMUM COVER TO REINFORCEMENT SHALL BE MAINTAINED AT THESE LOCATIONS.
- HOLES, CHASES AND THE EMBEDMENT OF PIPEWORK OTHER THAN THOSE DETAILED ON THE STRUCTURAL DRAWINGS SHALL NOT BE MADE IN CONCRETE ELEMENTS UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT.
- ASSESSMENT OF CONCRETE STRENGTH IN ACCORDANCE WITH AS 1379 SHALL BE ADOPTED FOR SAMPLING AND TESTING. REFER TO THE SPECIFICATIONS FOR FREQUENCY OF TESTING.
- THE CURING OF ALL CONCRETE SHALL BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, PREVENTING THE LOSS OF MOISTURE FOR 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED-ON CURING COMPOUNDS MAY BE USED WHERE SPECIFIC FLOOR FINISHES ARE NOT SPECIFIED. WAX BASED AND CHLORINATED RUBBER CURING COMPOUNDS ONLY SHALL BE USED. PLASTIC SHEETING OR WET HESSIAN SHALL BE USED TO PROTECT CONCRETE FROM WIND AND TRAFFIC.
- FOR ALL CONCRETE SURFACE FINISHES, FIXTURES AND FITTING SCHEDULES, REFER TO THE ARCHITECTURAL DRAWING No. 59590.401.
- CONSTRUCTION JOINTS SHALL BE FORMED AT LOCATIONS NOMINATED ON THE STRUCTURAL DRAWINGS. ALTERNATIVE LOCATIONS SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON REINFORCEMENT CHAIRS AT 750mm MAXIMUM CENTRES EACH WAY. REINFORCEMENT SHALL BE TIED AT ALTERNATE INTERSECTIONS. IN EXPOSURE CONDITIONS B2 AND C PLASTIC CHAIRS SHALL BE USED.
- FORMWORK SHALL REMAIN UNDISTURBED FOR THE MINIMUM STRIPPING TIME SPECIFIED IN AS 3610.
- ALL REINFORCING BARS SHALL BE GRADE D500N AND ALL REINFORCING MESH SHALL BE GRADE 500L TO AS 4671 UNLESS NOTED OTHERWISE.
- REINFORCEMENT NOTATION SHALL BE AS FOLLOWS:
 - 15.1 NUMBER OF BARS IN GROUP, BAR GRADE AND SIZE (mm), LOCATION eg, 10-N12 T; OR BAR GRADE AND SIZE (mm), SPACING (mm), LOCATION eg, N12@300 T.
 - 15.2 REINFORCEMENT LOCATION SHALL BE SPECIFIED AS FOLLOWS: T-TOP, B-BOTTOM, EF-EACH FACE, EW-EACH WAY, FF-FAR FACE, NF-NEAR FACE.
- REINFORCEMENT ON PLANS AND IN SECTIONS IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- SPLICES IN REINFORCEMENT SHALL BE ONLY IN THE LOCATIONS SPECIFIED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT. WHERE THE SPLICE LENGTH IS NOT NOTED, PROVIDE A SUFFICIENT LAP TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT TO AS 3600 OR IN ACCORDANCE WITH THE FOLLOWING:

BAR SIZE	N12	N16	N20	N24	N28
LAP LENGTH	500	700	950	1300	1650

- REINFORCING MESH SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm.
- REINFORCEMENT SHALL ONLY BE BENT COLD IN ACCORDANCE WITH AS 3600 UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT. RE-BENDING SHALL NOT BE PERMITTED.
- REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE SUPERINTENDENT.
- WHERE TRANSVERSE TIE BARS ARE NOT SHOWN ON THE REINFORCEMENT PLANS, N12@300 SHALL BE PROVIDED AS NECESSARY. LAP 450mm WITH MAIN REINFORCEMENT.
- AT SLAB PENETRATIONS GREATER THAN 300mm, REINFORCEMENT SHALL NOT BE CUT. DISPLACE REINFORCEMENT EITHER SIDE AND ADD EXTRA REINFORCEMENT AS PER THE STRUCTURAL DRAWINGS AND AS DIRECTED BY THE SUPERINTENDENT.
- ALL EMBEDDED FIXTURES (INSERTS, THREADED SOCKETS, FERRULES, BOLTS, ETC.) WITHIN CONCRETE OR EXPOSED TO AIR SHALL NOT BE IN CONTACT WITH REINFORCEMENT. PROVIDE ISOLATING STRIPS BETWEEN DISSIMILAR METALS.
- THE SUPERINTENDENT SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE FOR FORMWORK AND REINFORCEMENT INSPECTION. CONCRETE SHALL NOT BE ORDERED UNTIL APPROVAL HAS BEEN OBTAINED.

STEELWORK NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT EDITION OF AS 4100 AND AS 1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS OR THE STRUCTURAL STEELWORK SECTION OF THE SPECIFICATION.
- ALL STEELWORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING AUSTRALIAN STANDARDS AND BE OF THE FOLLOWING GRADE:

TYPE OF STEELWORK	AUST. STANDARD	GRADE
UNIVERSAL BEAMS AND COLUMNS	AS 3679.1	300
PARALLEL FLANGE CHANNELS, ANGLES	AS 3679.1	300
WELDED SECTIONS	AS 3679.2	300
HOT ROLLED PLATES	AS 3678	250
HOLLOW SECTIONS (RHS, CHS, SHS)	AS 1183	C350
COLD FORM SECTIONS (PURLINS, GIRTS)	AS 1397	G450/Z350

- TWO COPIES OF THE WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR REVIEW AT LEAST 14 DAYS PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATION SHALL NOT COMMENCE WITHOUT THE SUPERINTENDENT'S APPROVAL. ALL DIMENSIONS AND SETOUTS SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS WHERE NOT INDICATED ON THE STRUCTURAL DRAWINGS. THE SUPERINTENDENT SHALL ACCEPT NO RESPONSIBILITY FOR THE ACCURACY OF THE WORKSHOP DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE TEMPORARY BRACING AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED.
- ALL STRUCTURAL CONNECTION PLATES SHALL BE 10mm UNLESS NOTED OTHERWISE.
- ALL BOLTED CONNECTIONS SHALL BE 2-M20 8.8/S BOLTS UNLESS NOTED OTHERWISE.
- ALL BOLTS DENOTED 4.6 STRENGTH GRADE SHALL BE COMMERCIAL BOLTS TO AS 1275. ALL BOLTS DENOTED 8.8 STRENGTH GRADE SHALL BE HIGH STRENGTH BOLTS TO AS 1252. TIGHTENING PROCEDURES TO BE IN ACCORDANCE WITH AS 4100.
 - 7.1. S - SNUG TIGHT
 - 7.2. TB - BEARING TYPE JOINT, BOLTS TO BE FULLY TENSIONED
 - 7.3. TF - FRICTION TYPE JOINT, BOLTS TO BE FULLY TENSIONED WITH FACING SURFACES LEFT UNCOATED.
- ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1554.1. ALL WELDS SHALL BE 6mm SPECIAL PURPOSE CONTINUOUS FILLET USING E49XX ELECTRODES UNLESS NOTED OTHERWISE. THE EXTENT OF NON-DESTRUCTIVE WELD EXAMINATION SHALL BE AS NOTED BELOW. RADIOGRAPHIC OR ULTRASONIC EXAMINATION SHALL BE TO AS 1554.1, AS 2177.1 AND AS 2207 AS APPROPRIATE:

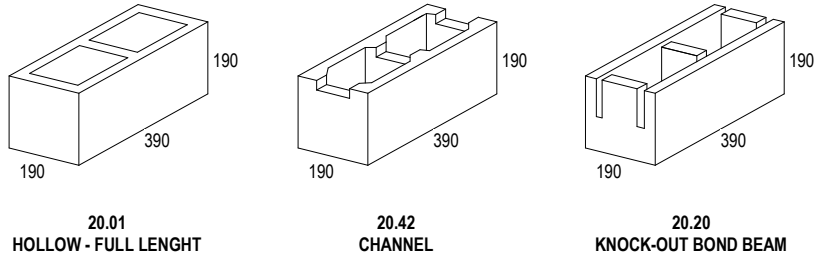
TYPE OF WELDS	EXAMINATION METHOD	EXTENT (% OF TOTAL LENGTH OF WELD TYPE
FILLED WELDS - GP, SP	VISUAL INSPECTION	100
BUTT WELDS - GP	VISUAL INSPECTION	100
BUTT WELDS - SP	VISUAL INSPECTION	100
BUTT WELDS - SP	RADIOGRAPHIC OR ULTRASONIC	10

- SUITABLE EQUIPMENT SHALL BE USED DURING LOADING, TRANSPORT AND ERECTION OF STRUCTURAL STEELWORK TO AVOID DAMAGE TO THE STEELWORK FINISHES. STEELWORK STORED ON SITE SHALL BE PROTECTED AGAINST CORROSION AND DETERIORATION OF TREATED SURFACES.
- ENSURE ALL MEMBERS ARE CONCENTRIC AT CONNECTIONS UNLESS SHOWN OTHERWISE ON STRUCTURAL DRAWINGS.
- ALL ROOF PURLINS AND BRIDGING SHALL BE LYSAGHT PRODUCTS UNLESS AN ALTERNATIVE HAS BEEN APPROVED BY THE SUPERINTENDENT. PURLIN BOLTS, AND BRIDGING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS DETAILS.

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			Designed J.PARADA	Certified N. DANG RPEQ 16272											Sheet of 1	Issue 16
			Design & Drafting Checked S. HART	Authorised A. JAFARI												
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineering Document Reference A121687627	Project Identifier:-CAD File Name QuotaPrk.010.334231-ISTRUC										
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					Issue	Description ✱	Name	Initial	Date							
					Design not to be amended without authorisation by Statutory Certifier								Do not scale, use figured dimensions only			

BLOCKWORK NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE CURRENT EDITION OF AS 3700 AND AS 3600.
- BLOCKWORK UNITS SHALL HAVE A CHARACTERISTIC STRENGTH OF $f_{uc} = 15 \text{ MPa}$ TO AS 3700.
- ALL MASONRY SUPPORTED BY OR SUPPORTING CONCRETE SLABS SHALL HAVE VERTICAL CONTROL JOINTS AT LOCATIONS MATCHING THE JOINTS IN THE SLAB. PROVIDE CONTROL JOINTS AT 10.0m MAXIMUM CENTRES AND AT 5.0m FROM CORNERS IN WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- RECESSES AND CHASES SHALL NOT BE PERMITTED WITHOUT THE PERMISSION OF THE SUPERINTENDENT.
- PROVIDE CLEAN OUT BLOCKS AT THE BASE OF ALL REINFORCED CORES. ALL MORTAR DROPPINGS SHALL BE REMOVED FROM THE BOTTOM OF CORES THROUGH THE CLEAN OUT BLOCKS PRIOR TO PLACING REINFORCEMENT AND CONCRETE.
- CONCRETE CORE FILLING TO HAVE:
 - CHARACTERISTIC STRENGTH $f_c = 20 \text{ MPa}$;
 - SLUMP = 230mm (+30mm);
 - MAXIMUM AGGREGATE SIZE = 10mm.
- ALL CORES SHALL BE WETTED PRIOR TO CONCRETE FILLING.
- CONCRETE CORE FILLING SHALL BE THOROUGHLY COMPACTED EITHER BY RODDING OR BY PENCIL VIBRATOR. ALL CORES TO BE FILLED TO A MAXIMUM OF 2.5m HIGH FREE DROP IN ANY POUR. STOP POUR 50mm BELOW TOP OF BLOCK TO PROVIDE KEY FOR FOLLOWING POUR.
- MORTAR SHALL BE TYPE M3 AND MECHANICALLY MIXED UNLESS NOTED OTHERWISE.
 - MORTAR SHALL CONSIST OF EITHER:
 - ONE PART CEMENT, ONE PART HYDRATED LIME AND SIX PARTS OF WELL GRADED SAND AND SHALL COMPLY WITH THE REQUIREMENTS OF AS 3700; OR
 - ONE PART CEMENT, FOUR PARTS SAND (DO NOT EXCEED FIVE PARTS SAND) AND AUS-LOC. AUS-LOC MUST BE A PLANT-BASED STEARATE SUPPLIED BY TECH-DRY AND USED IN STRICT ACCORDANCE WITH THE RECOMMENDED DOSAGE RATES OF 0.5 LITRE PER 20KG OF CEMENT. ANY LOSS OF MORTAR STRENGTH DUE TO OVERDOSING OF AUS-LOC WILL RESULT IN ANY WALLS CONTAINING SUCH REDUCED STRENGTH MORTAR BEING DEMOLISHED AND RECONSTRUCTED AT THE CONTRACTOR'S COST.
- AUS-LOC IS THE ONLY ADDITIVE APPROVED FOR USE IN MORTAR MIXES. DO NOT USE ANY OTHER ADDITIVE IN MORTAR MIXES.
- ALL THE VERTICAL REINFORCEMENT SHALL BE PLACED CENTRALLY IN THE CORES.
- FOR BLOCK WALL COURSES WITH NO HORIZONTAL REINFORCEMENT, USE FULL LENGTH BLOCKS. FOR COURSES WITH HORIZONTAL REINFORCEMENT, USE CHANNEL BLOCKS. FOR THE BOND BEAMS (THE TOP TWO COURSES OF THE BLOCK WALL), USE KNOCK-OUT BLOCKS. REFER THE IMAGES BELOW FOR TYPICAL FULL HEIGHT, CHANNEL, AND BOND BEAM BLOCKS.



STAINLESS STEEL NOTES:

- ALL WELDING OF STAINLESS STEEL SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1554.6 TO THE FOLLOWING:
 - LEVEL 1 INTERNAL WELD QUALITY
 - CLASS B EXTERNAL WELD QUALITY
 - GRADE II SURFACE FINISH - CLEANED
 - POST ASSEMBLY FINISH - HIGH PERFORMANCE 2 PAC COATING SYSTEM (TWO-PACK POLYURETHANE OR EQUIVALENT AS APPROVED BY SUPERINTENDENT). SURFACE PREPARATION AND APPLICATION MUST ACHIEVE MAXIMUM ADHESION IN A CATEGORY C4 ENVIRONMENT.
- ALL STAINLESS STEEL PLATE, BARS, RODS AND SECTIONS SHALL BE GRADE 1.4406 (316N) TO EN 10088. IT SHALL HAVE A MINIMUM YIELD STRENGTH OF 280MPa AND ULTIMATE YIELD STRENGTH OF 580MPa WITH AN ACCEPTABLE CORROSION RESISTANCE TO MARINE ATMOSPHERE AS PER TABLE A.1 OF EN 10088.
- ALL STAINLESS STEEL BOLTS AND NUTS SHALL BE GRADE A4-70 TO EN ISO 3506-1 AND 3506-2, RESPECTIVELY UNLESS SPECIFIED OTHERWISE. WASHERS SHALL CONFORM TO EN ISO 7089 AND BE OF AN EQUIVALENT OF OR BETTER CORROSION RESISTANCE THAN THE PARENT MATERIAL.
- ALL STAINLESS STEEL WELDING AND FABRICATION SHALL BE CARRIED OUT BY AN AUSTRALIAN STAINLESS STEEL DEVELOPMENT ASSOCIATION (ASSDA) ACCREDITED FABRICATOR. NO SITE WELDING IS PERMITTED.
- ALL WELDS SHALL BE 6mm FILLET WELDS UNLESS NOTED OTHERWISE.
- GRIND SMOOTH ALL SHARP EDGES TO A MINIMUM 2mm RADIUS TO ENSURE COATING INTEGRITY.

STAINLESS STEEL NOTES (cont.):

- GRIND SMOOTH AND POLISH ALL WELD BEADS AND PICKLE WELD AREAS.
- BOLTS TO BE FABRICATED FOR ANTI-GALLING PERFORMANCE. MOLYPASTE ANTI-GALL (MOLYBDENUM DISULPHIDE) PASTE SHALL BE APPLIED TO ALL THREADS OF NUTS AND BOLTS PRIOR TO TIGHTENING OF NUTS.
- ALL STAINLESS STEEL SHALL BE ELECTRICALLY ISOLATED FROM DISSIMILAR METALS INCLUDING ALUMINIUM WITH SUITABLE INSULATING NYLON GASKETS AND BUSHES.
- PASSIVATE FABRICATED PIECES BEFORE INSTALLATION.
- PAINTED FINISH: ALL AREAS OF VISUALLY EXPOSED SS COLUMNS & BEAMS ARE TO BE FINISHED WITH A 2 PAC COATING SYSTEM. SURFACE PREPARATION SHALL CONSIST OF AN ABRASIVE SWEEP (BRUSH) BLAST WITH NON-METALLIC MEDIA TO PROVIDE A UNIFORM DULL PROFILE. THE SYSTEM SHALL COMPRISE A TWO-COAT EPOXY INTERMEDIATE (MINIMUM 250 μm TOTAL DFT) AND A POLYURETHANE TOPCOAT (MINIMUM 75 μm DFT).
- SECTIONS OF COLUMNS AND BEAMS NOT EXPOSED DO NOT REQUIRE THE 2 PAC FINISH BUT MUST BE FINISHED TO A RA < 0.5 MICRON (THIS MAY INCLUDE SUITABLE MILL FINISHES).

TIMBER NOTES:

- UNLESS OTHERWISE SPECIFIED, DESIGN MATERIALS, WORKMANSHIP AND CONNECTIONS OF ALL TIMBER WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - AS 1720.1 "TIMBER STRUCTURES - PART 1: DESIGN METHODS"
 - AS 1720.2 "TIMBER STRUCTURES - PART 2: TIMBER PROPERTIES"
- UNO ALL TIMBER SHALL BE SUPPLIED SEASONED HARDWOOD OF NATURAL DURABILITY CLASS 1 IN ACCORDANCE WITH AS 5604. THE TIMBER SHALL BE TANALITH E TREATED TO HAZARDS CLASS H3 IN ACCORDANCE WITH AS 1604.1. USE ONLY AUSTRALIAN GROWN TIMBER.
- ALL TIMBERS TO BE 'TRUEWOOD' ONLY WITH NO 'HEART'. ALL TIMBERS TO BE SINGLE SPECIES ONLY. ACCEPTABLE SPECIES ARE TALLOWWOOD, SPOTTED GUM AND GYMPIE MESSMATE.
- STORE TIMBERS TO MAINTAIN CONSISTENT MOISTURE CONTENT AND PROPERTIES. REFER SPECIFICATION.
- PROTECT TIMBERS FROM DAMAGE BY DROPPING, SLIDING, RUBBING, IMPACT AND THE LIKE. DO NOT MAKE CUTS, NAIL PENETRATIONS, HOLES OR THE LIKE INTO TIMBERS FOR TEMPORARY FIXINGS.
- MAKE TEMPORARY FIXINGS BY CLAMPING OR TYING AS APPLICABLE.
- WHERE A TEMPORARY CONSTRUCTION FIXING REQUIRES PENETRATION OF THE TIMBERS, SEEK APPROVAL FROM THE SUPERINTENDENT.
- OTHER CUTS, LAPS, BOLT/SCREW HOLES AND RECESSES SHALL BE COATED WITH CN TIMBER EMULSION.
- USE ESTABLISHED CONSTRUCTION TECHNIQUES THAT MINIMISE DAMAGE TO TIMBER. FOR EXAMPLE, USE BACK BLOCKING TO REAR DRILLED FACES TO PREVENT SPLIT-OUT OF TIMBERS.
- ENSURE CONSTRUCTION TECHNIQUES ARE CONSISTENT WITH THE USE OF SEASONED TIMBERS AND ASSOCIATED PROPERTIES SUCH AS SHRINKAGE AND INDUCEMENT OF SPLITTING.
- SCREW AND NAIL CONNECTIONS MAY REQUIRE PRE-DRILLING TO PREVENT SPLITTING OF TIMBER. IF PRE-DRILLING IS REQUIRED, HOLES SHALL BE 80% OF THE SHANK DIAMETER AND THE FULL LENGTH OF SCREW OR NAIL.
- ALL NAILS TO BE SKEWED.
- PROVIDE SCREW AND NAIL PATTERN TO AVOID SPLITTING UNLESS NOTED OTHERWISE.
- ALL SCREWS TO BE RECESSED TO FINISH 2mm BELOW SURFACE OF TIMBER.
- FOR BOLTED CONNECTIONS WHERE THE BOLT MAKES DIRECT CONTACT TO TIMBER, PLACE COMPLIANT WASHERS UNDER NUTS, HEADS OR BOTH AS APPLICABLE.
- BOLT HOLES SHALL BE DRILLED 10% LARGER THAN SHANK DIAMETER.
- ALL BOLTED CONNECTIONS TO BE CHECKED AND TIGHTENED AT 3 MONTHS, 6 MONTHS AND 12 MONTHS FOLLOWING COMPLETION OF CONSTRUCTION.
- ALL SAWN ENDS TO BE SEALED WITH MOBILICER-M WAX EMULSION OR EQUIVALENT.

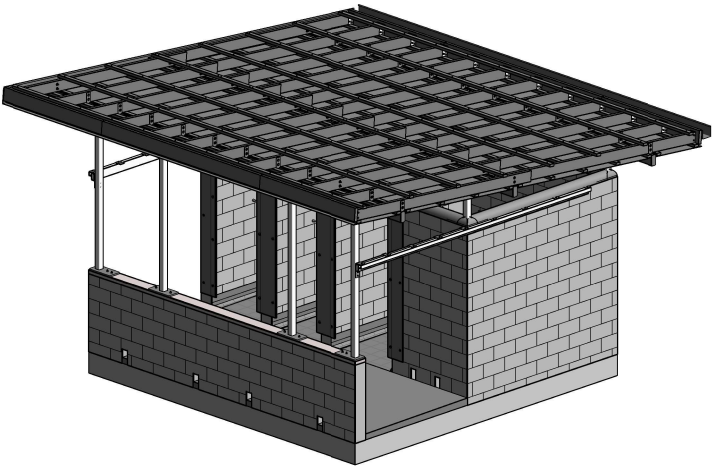
WASHER SIZE REQUIREMENTS:

BOLT	WASHER SIZE, mm			COMMENTS
	THICKNESS	MINIMUM DIAMETER FOR ROUND WASHERS	MINIMUM SIDE LENGTH FOR SQUARE WASHERS	
M6	1.6	30	25	-
M8	2.0	36	32	-
M10	2.5	45	40	-
M12	3.0	55	50	-
M16	4.0	65	57	-
M20	5.0	75	65	-

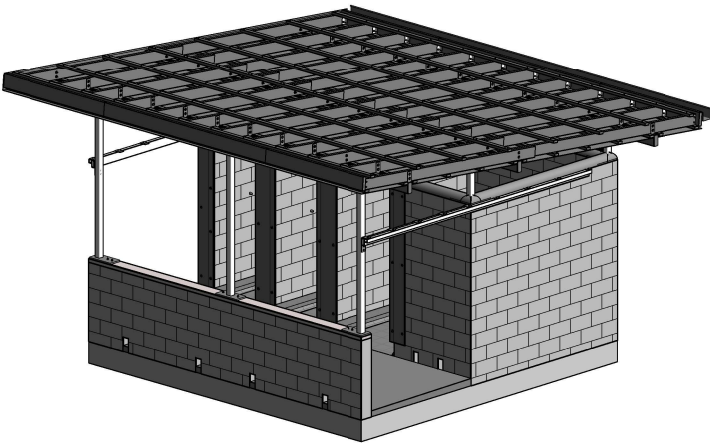
- NOTES:
- ALL WASHER SIZES LISTED COMPLY WITH AS 1720.1 WASHERS TO BE PLACED ON THE TIMBER FACE ONLY. WASHERS ARE NOT REQUIRED ON THE STEEL CLEAT SIDE.
 - FOR CUP-HEAD BOLTS, THE REQUIRED WASHER THICKNESS AND DIAMETER (OR LENGTH) IS THE SAME AS THOSE FOR NON-CUP-HEAD BOLTS EXCEPT THAT A WASHER IS REQUIRED ON THE NUT SIDE ONLY BUT NOT UNDER BOLT HEAD.

SAFETY NOTES:

- DO NOT ALLOW PUBLIC ACCESS TO THE SITE UNTIL THE COMPLETION OF THE WORKS.
- THE USE OF COPPER CHROME ARSENATE (CCA) TREATED TIMBERS IS RESTRICTED TO THE AREAS OF THE STRUCTURE NOT READILY ACCESSIBLE BY THE PUBLIC.
- ENSURE SATISFACTORY AND RELEVANT SAFETY MEASURES ARE ADOPTED FOR HANDLING CCA TREATED TIMBERS, OTHER PRESERVATIVE TREATED TIMBERS, TIMBER PRESERVATIVES AND THE LIKE.
- REMOVE FROM SITE ALL OFFCUTS AND SAWDUST FROM CCA AND OTHER PRESERVATIVE TREATED TIMBERS. DO NOT ALLOW THESE MATERIALS TO BE LEFT IN A POSITION WHERE THEY CAN BE BURNT. THIS INCLUDES BOTH ON AND OFF SITE.



ARCHITECTURAL 3D VIEW - OPTION 1

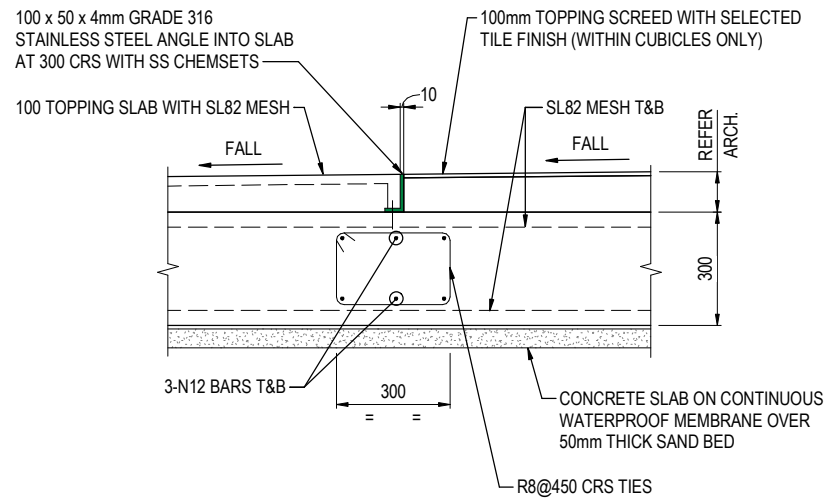


ARCHITECTURAL 3D VIEW - OPTION 2

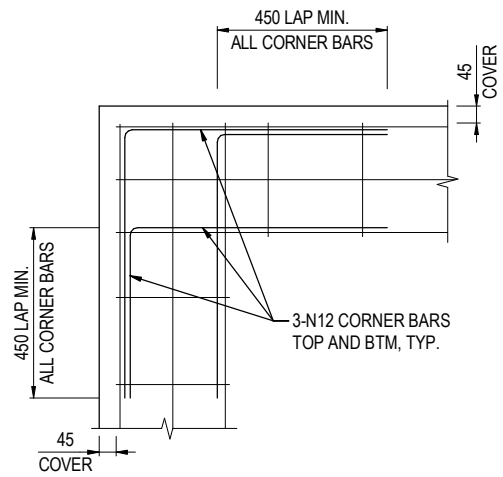
SCALE:

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			Designed J. PARADA	Certified N. DANG RPEQ 16272											Sheet of 2	16	Issue 1
			Design & Drafting Checked S. HART	Authorised A. JAFARI													
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineering Document Reference A121687627	Project Identifier-ICAD File Name QuotaPrk.010.33423\1-STRUC												
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					Issue	Description ✱				Name	Initial	Date					
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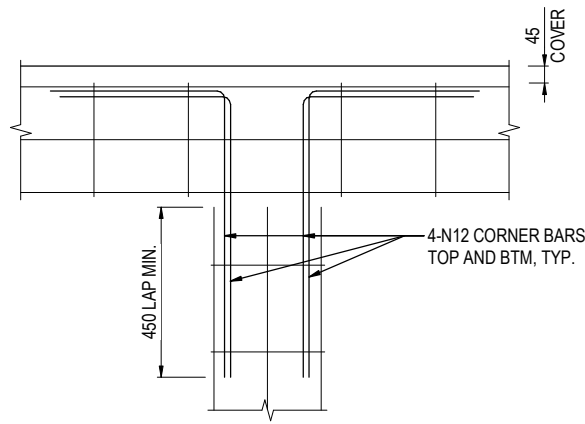




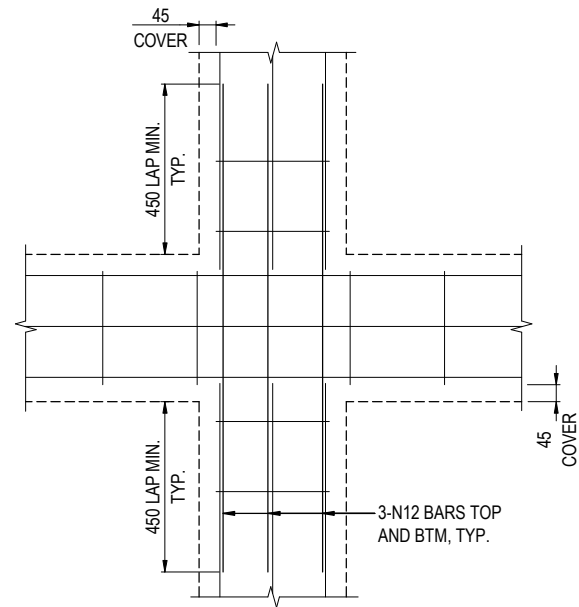
SECTION 7
SCALE: 1 : 10



TYPICAL CORNER



TYPICAL TEE



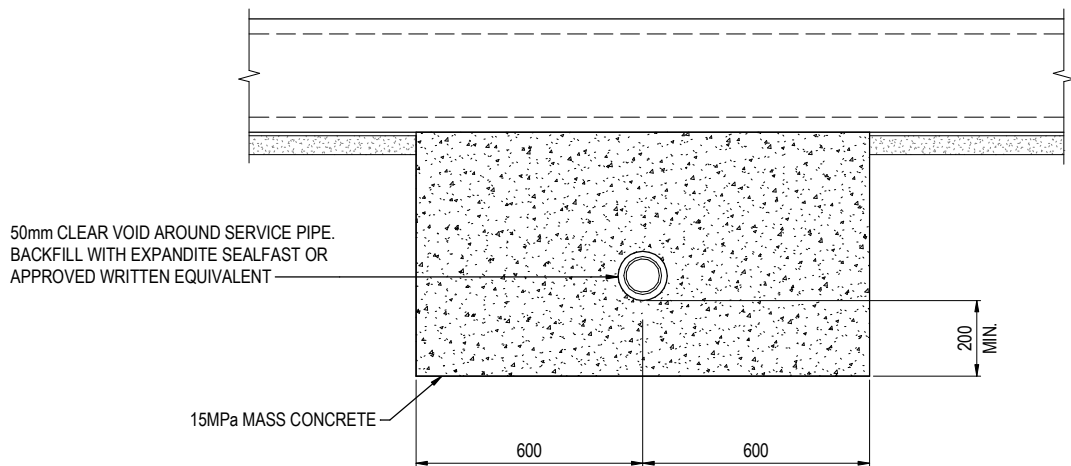
TYPICAL FOOTING INTERSECTION

TYPICAL REINFORCEMENT CAGE JUNCTION DETAILS

SCALE 1:10

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												STRUCTURAL								FOOTING AND SLAB ON GROUND DETAILS - SHEET 2 OF 3		

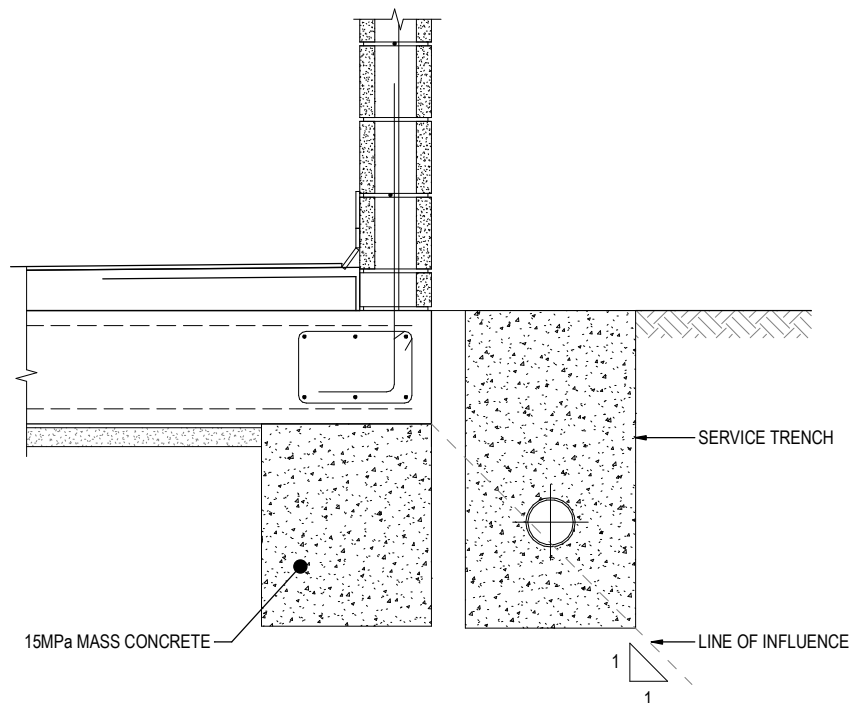
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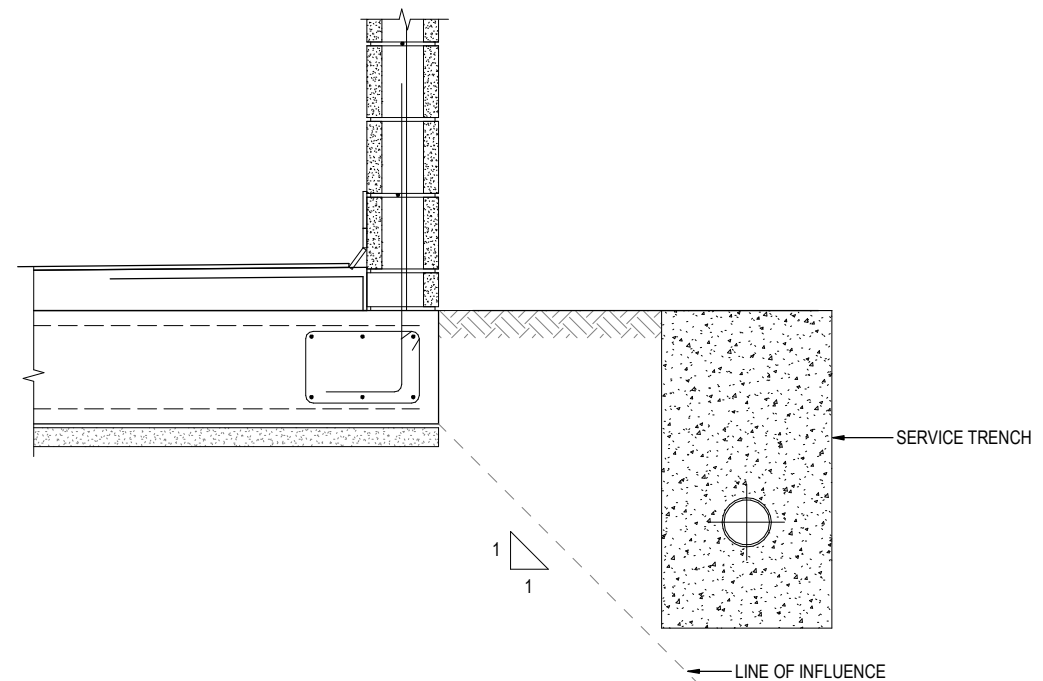
HYDRAULIC SERVICE PIPE UNDER SLAB DETAILS *
SCALE: 1 : 10

NOTES: *

1. THIS DETAIL TO BE USED ONLY WHEN CONTINUOUS FIRM SUBGRADE AND/OR FULLY COMPACTED BACKFILL AROUND AND BENEATH SLAB PIPEWORK CANNOT BE ACHIEVED.
2. USE AS DIRECTED BY CERTIFYING ENGINEER.



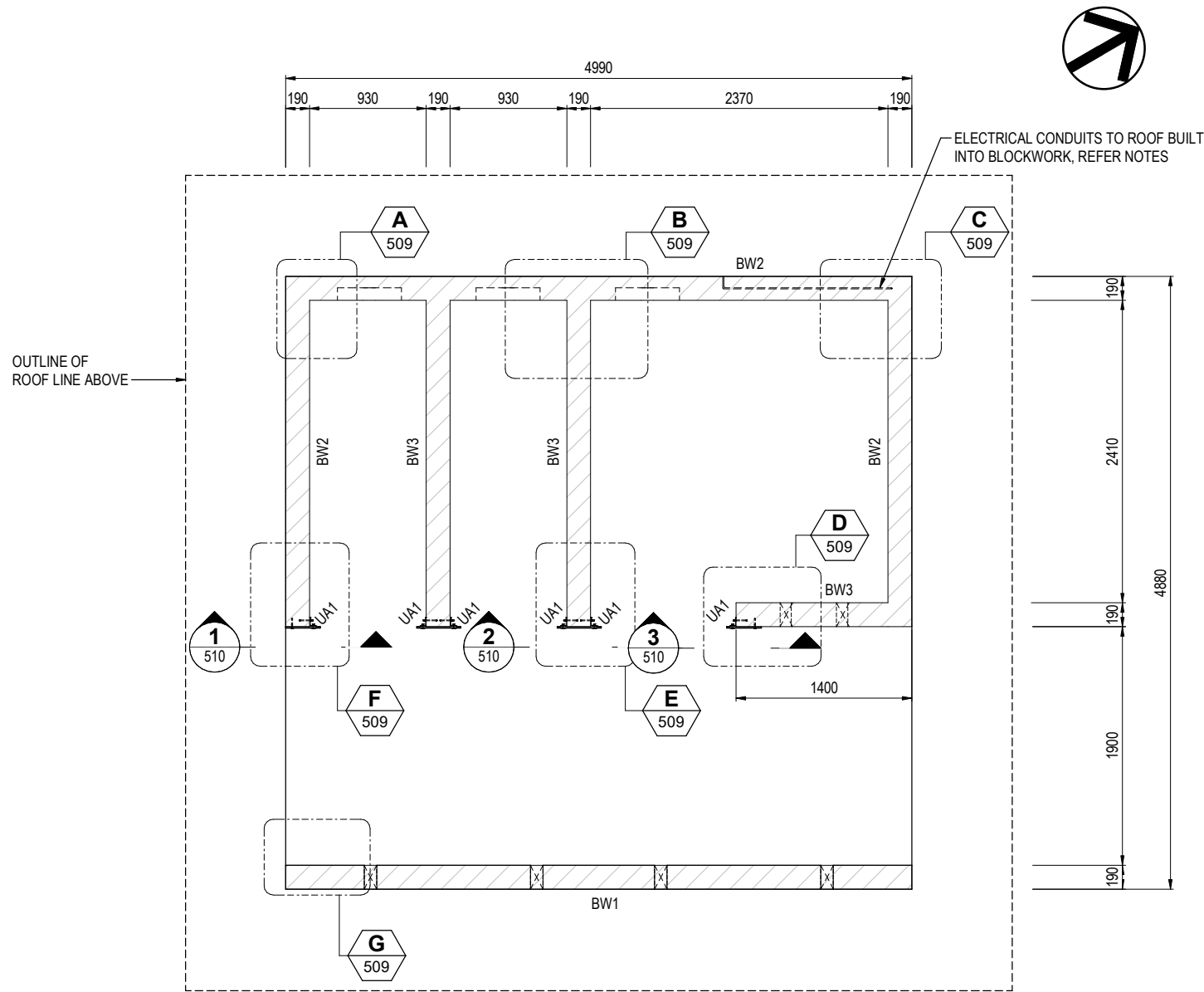
WHERE SERVICE TRENCH CLASHES WITH LINE OF INFLUENCE



WHERE SERVICE TRENCH IS OUTSIDE LINE OF INFLUENCE

HYDRAULIC SERVICE PIPE ADJACENT SLAB DETAILS
SCALE 1:10

<div><div>CITY OF</div><div>GOLD COAST™</div></div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>		Drafted	Engineered																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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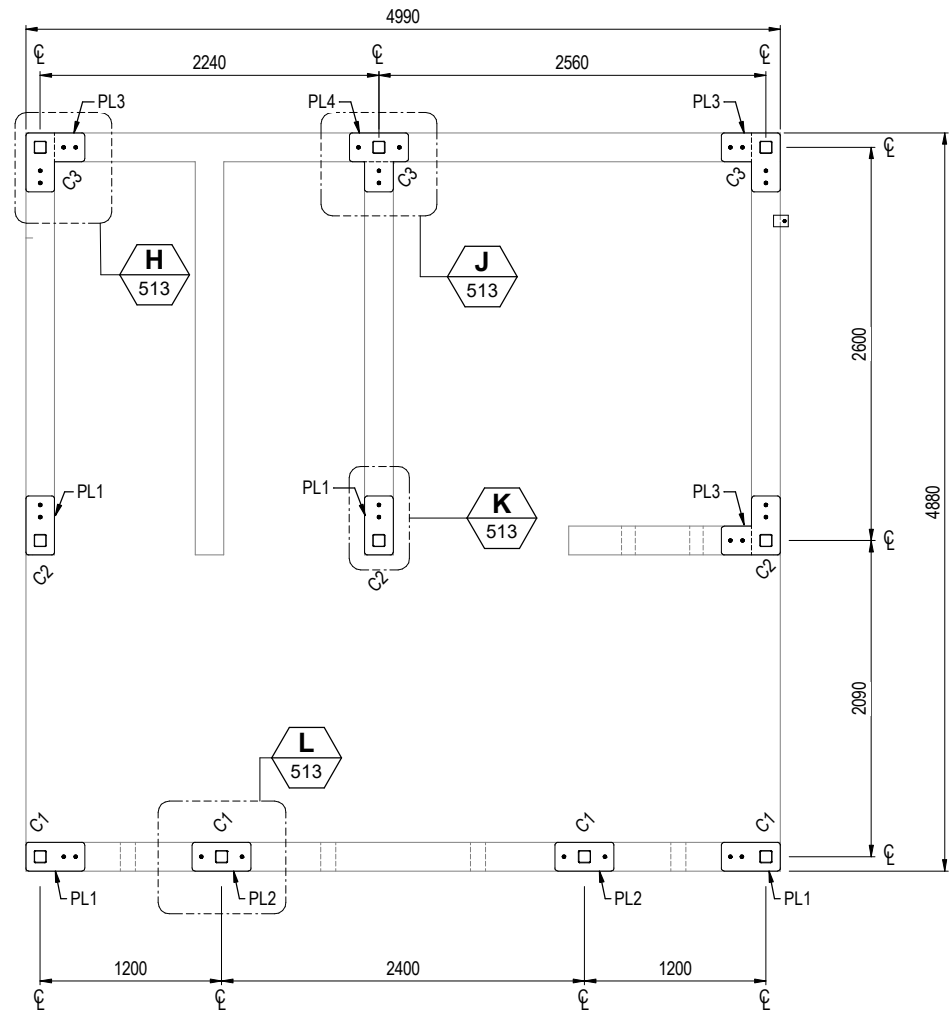
WALL FRAMING PLAN

SCALE: 1 : 25
WALLS TO BE 200 SERIES REINFORCED, CORE FILLED BLOCKWORK, TYP.,
WITH THE TOP TWO COURSES BEING BOND BEAMS, UNO

TABLE 1: COLUMN & DOOR FIXING SCHEDULE

MARK	NAME	SIZE	*LENGTH	DESIGNATION	No. REQUIRED
C1	COLUMN	80 x 5.0	2142	SHS SS GRADE 316	4
C2	COLUMN	80 x 5.0	582	SHS SS GRADE 316	3
C3	COLUMN	80 x 5.0	354	SHS SS GRADE 316	3
PL1	BASE PLATE	390 x 190 x 20	-	SS GRADE 316	4
PL2	BASE PLATE	390 x 190 x 20	-	SS GRADE 316	2
PL3	BASE PLATE	390 x 190 x 20 + 200 x 190 x 20	-	SS GRADE 316	3
PL4	BASE PLATE	390 x 190 x 20 + 200 x 190 x 20	-	SS GRADE 316	1
UA1	UNEQUAL ANGLE	75 x 50 x 6.0	2200	SS GRADE 316	6

NOTE: *DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO FABRICATION

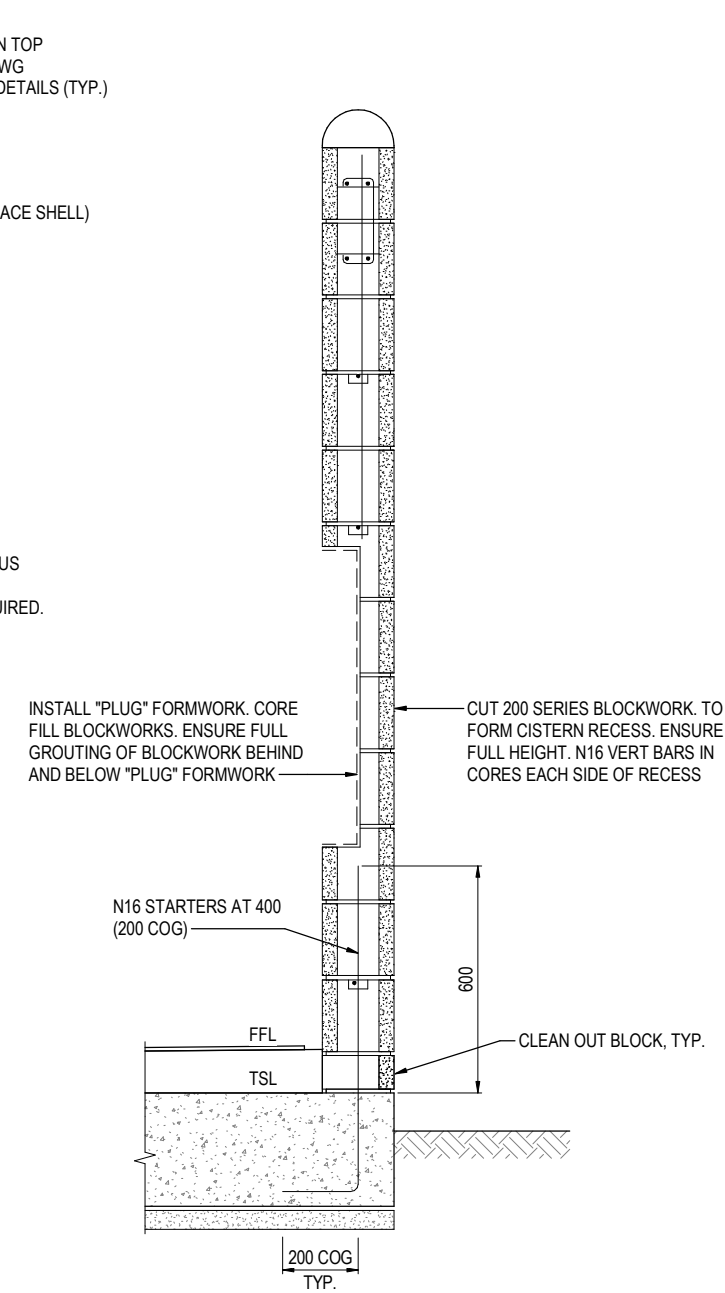
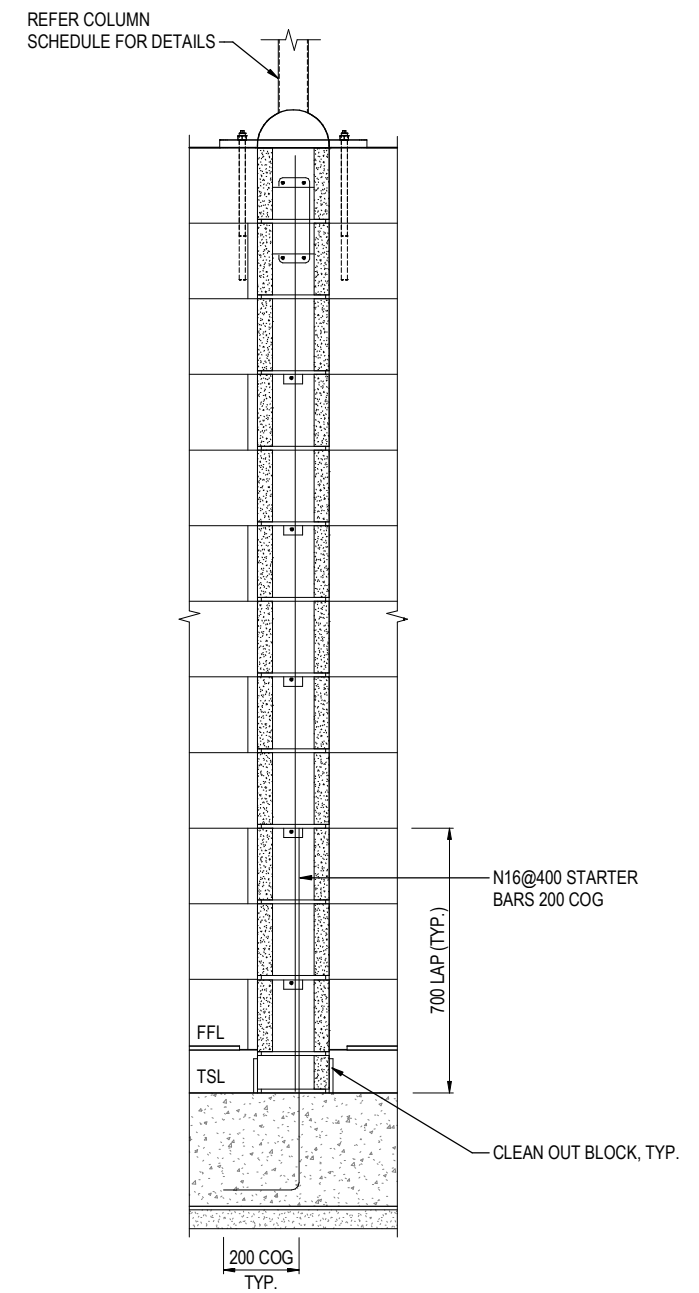


COLUMN - KEY PLAN OPTION 1, REFER DRG No. ST-516 FOR OPTION 2

SCALE: 1 : 25

NOTES:

- WHERE ELECTRICAL CONDUIT OR OTHER INBUILT SERVICES ARE BUILT INTO BLOCKWORK, DO NOT REMOVE OR DISPLACE REINFORCEMENT. ADJUST CONDUITS/SERVICES AROUND REINFORCEMENT.
- AVOID RUNNING CONDUIT HORIZONTALLY WITHIN BLOCKWORK. CONDUIT AND SERVICES SHOULD BE RUN VERTICALLY IN CORES WHERE POSSIBLE.
- WHERE A CONDUIT OR SERVICE MUST BE RUN HORIZONTALLY IN BLOCKWORK:
 - BEFORE INSTALLATION OF THE CONDUIT/SERVICE, GROUT FILL ALL BLOCKS TO 50mm BELOW THE HORIZONTAL CONDUIT/SERVICE POSITION.
 - PLACE THE CONDUIT/SERVICE.
 - GROUT FILL AROUND AND ABOVE THE CONDUIT/SERVICE ENSURING FULL ENCASUREMENT OF THE CONDUIT/SERVICE. STOP GROUT FILLING 50mm BELOW THE NEXT FILLING LIFT TO ALLOW KEYING OF THE GROUT WITHIN THE BLOCKWORK.
 - PLACE CLEAN OUT BLOCKS IMMEDIATELY ABOVE THE HORIZONTAL CONDUIT/SERVICE TO ENSURE THE CORES ABOVE CAN BE CLEANED OUT PRIOR TO GROUTING.
- ALL GRADEOUT FILLING MUST BE AS SPECIFIED IN BLOCKWORK NOTES ON DWG No. 59590.502.
- 930 WIDTH IS REQUIRED FOR DDA ACCESS REQUIREMENTS. WALLS DO NOT ALIGN WITH A STANDARD BLOCKWORK COURSE UNIT SO WALLS CANNOT BE TOOTH CONNECTED. CUT END SHELLS AS REQUIRED TO ACHIEVE COLUMN FIT.

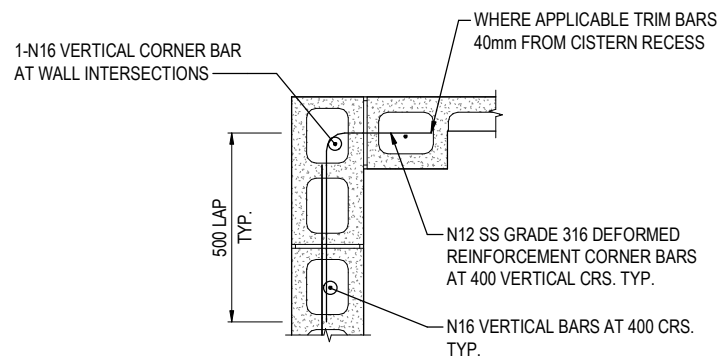


1. REINFORCE ALL BLOCKWORK WALLS AS PER SECTIONS AND DETAILS.
2. ENSURE 1-N16 VERTICAL LOCATED CENTRAL IN CORES ADJACENT CISTERN RECESSES, AT WALL CORNERS AND AT WALL ENDS (EXCEPT AT COLUMN LOCATIONS). ADD EXTRA N12 VERTICAL BARS AS REQUIRED.

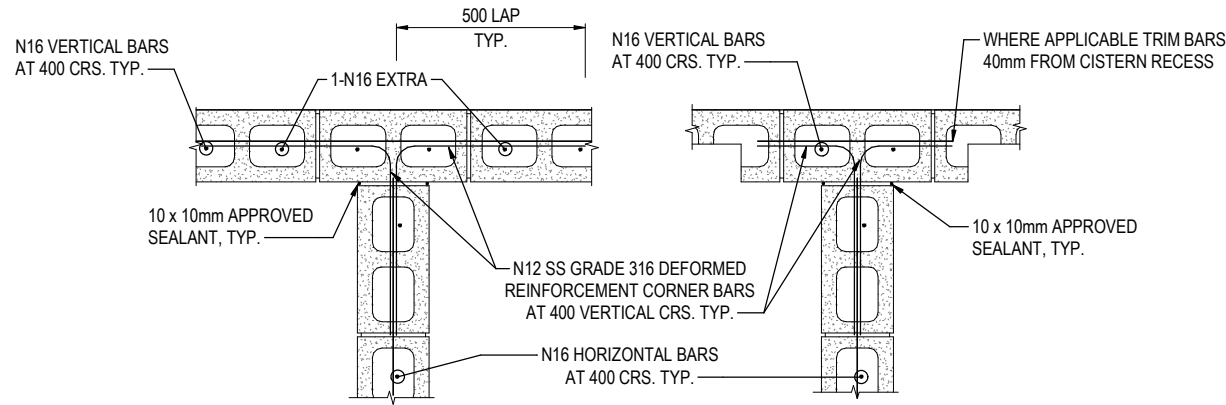
<div>CITY OF GOLD COAST™</div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>		Drafted J. PARADA	Engineered S. KHAJEZHADAH						<div>Bar Scales</div> <div><div>00.2 m0.4 m0.6 m</div><div>SCALE: 1:10 @A1</div></div>	<div>MARINE PARADE, BIGGERA WATERS</div> <div>QUOTA PARK</div> <div>NEW AMENITIES FACILITY</div>	Project Number		
			Designed J. PARADA	Certified N. DANG	RPEQ 16272								Sheet of	Issue
			Design & Drafting Checked S. HART	Authorised A. JAFARI									8	16
			Project Identifier/CAD File Name QuotaPrk.010.33423-1STRUC											
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineered Document Reference A121687627	Records File Number PN13586/46/10	Survey Folder Number D7478	1	ISSUED FOR CONSTRUCTION	N. DANG			ND	24/06/26	
* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION					Issue	Description ✱	Name	Initial	Date	Do not scale, use figured dimensions only	59590.508			
						Design not to be amended without authorisation by Statutory Certifier								

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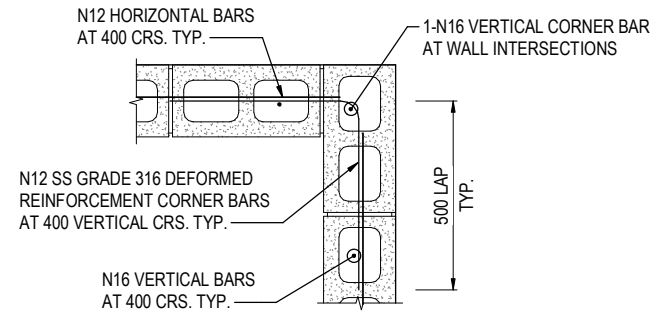


DETAIL A
SCALE: 1 : 10

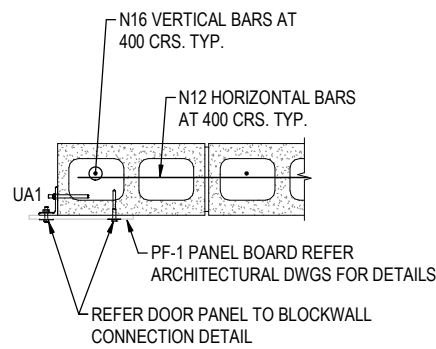


TYPICALLY AT CISTERN RECESS

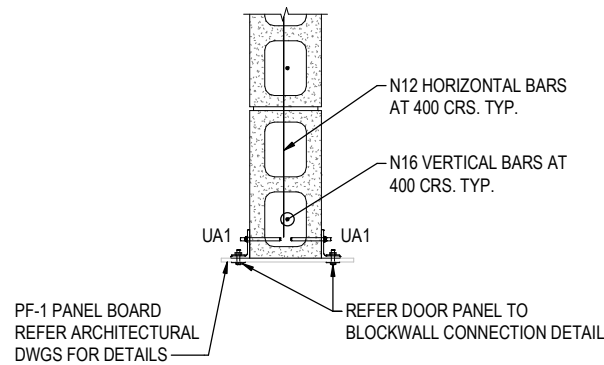
DETAIL B
SCALE: 1 : 10



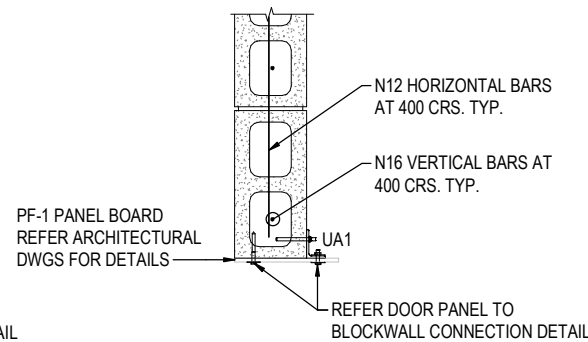
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SCALE: 1 : 10



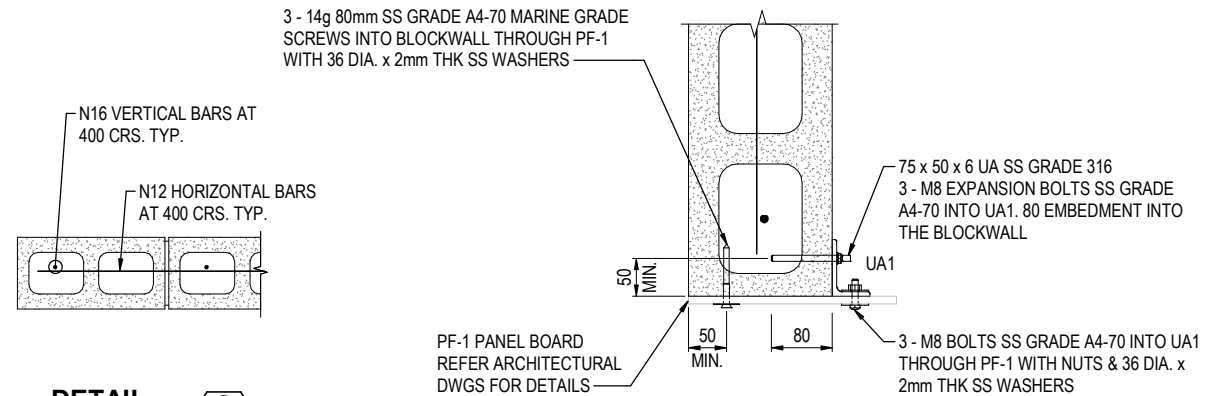
DETAIL D
SCALE: 1 : 10



DETAIL E
SCALE: 1 : 10



DETAIL F
SCALE: 1 : 10



DETAIL G
SCALE: 1 : 10

DOOR PANEL TO BLOCKWALL CONNECTION DETAIL

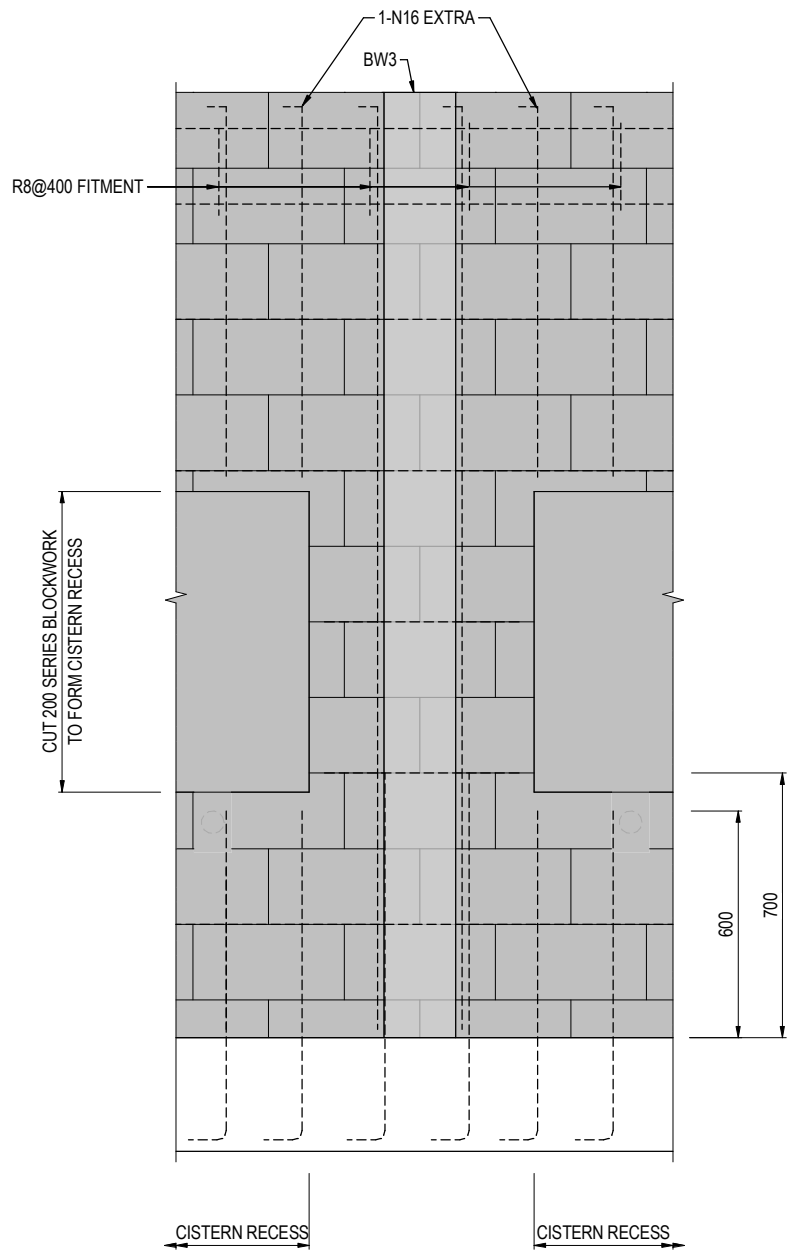
N.T.S.

REFER DWG 510 FOR DOOR PANEL TO BLOCKWALL CONNECTION LAYOUT

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			Designed J. PARADA	Certified N. DANG	RPEQ 16272								Sheet of	9	16	Issue	1				
			Design & Drafting Checked S. HART	Authorised A. JAFARI																	
			General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineered Document Reference A121687627	Project Identifier-ICAD File Name QuotaPrk.010.33423\I-STRUC																
	* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION												1	ISSUED FOR CONSTRUCTION		N. DANG	ND	24/06/26	Drawing Number		59590.509
			Records File Number PN13586/46/10	Survey Folder Number D7478	Design not to be amended without authorisation by Statutory Certifier			Do not scale, use figured dimensions only													

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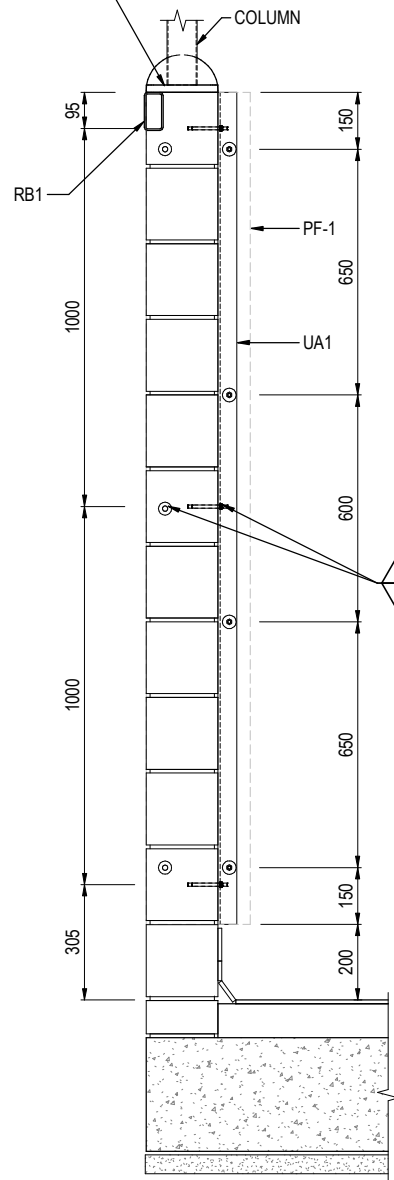


**TYPICAL BLOCKWORK WALL
REINFORCEMENT AT CISTERN RECESS**

SCALE: 1 : 10

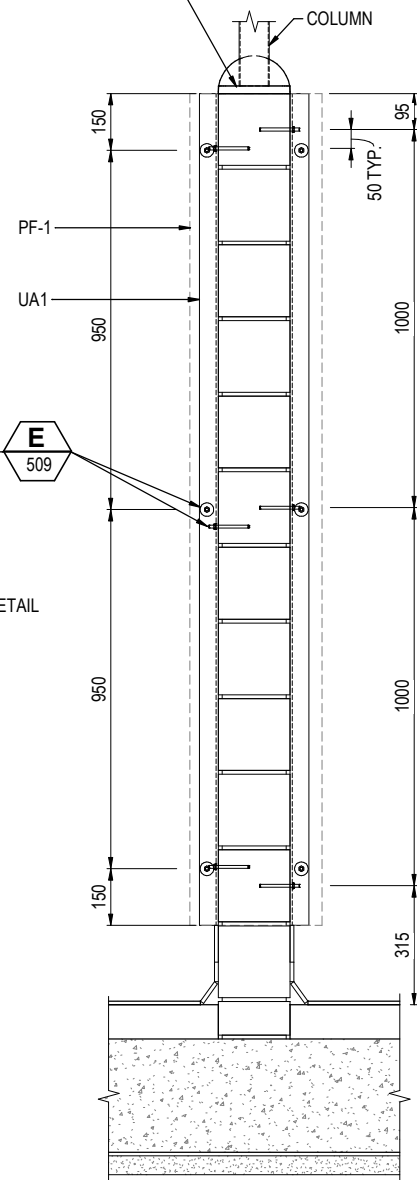
NOTE: BLOCKWORK WALL IN FOREGROUND OMITTED FOR CLARITY

REFER DWG No. 513 FOR SHS
TO BLOCKWALL CONNECTION



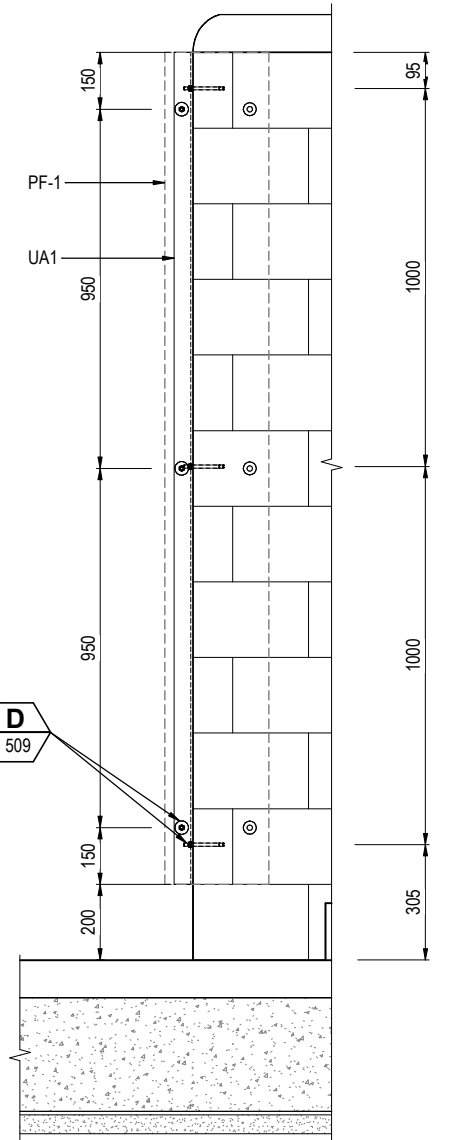
ELEVATION 1
SCALE: 1 : 10

REFER DWG No. 513 FOR SHS
TO BLOCKWALL CONNECTION



ELEVATION 2
SCALE: 1 : 10

PF1 TO UA1 AND UA1 TO
BLOCKWALL CONNECTION DETAIL



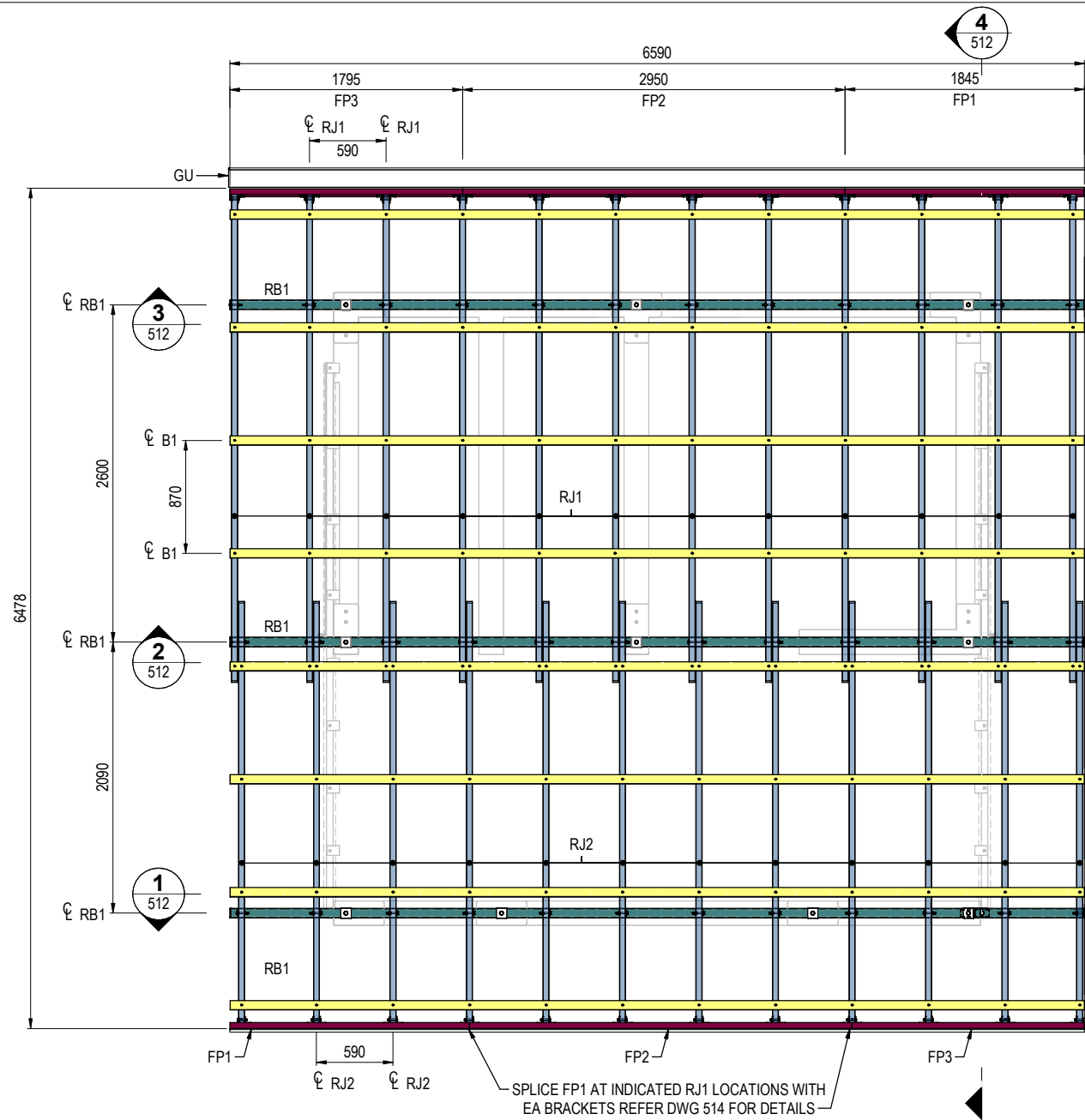
ELEVATION 3
SCALE: 1 : 10

NOTE:

1. REFER WALL FRAMING PLAN FOR THE LOCATIONS OF UA1.

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			<div>Designed</div> <div>J. PARADA</div>	<div>Certified</div> <div>N. DANG</div> <div>RPEQ 16272</div>							<div>Sheet of</div> <div>10 16</div>	<div>Issue</div> <div>1</div>
			<div>Design & Drafting Checked</div> <div>S. HART</div>	<div>Authorised</div> <div>A. JAFARI</div>							<div>Drawing Number</div> <div>59590.510</div>	
			<div>General Manager Engineering, Design and Standards (Chief Engineer)</div> <div>J. WAGNER</div>		<div>Certified Engineering Document Reference</div> <div>A121687627</div>	<div>Project Identifier-ICAD File Name</div> <div>QuotaPrk.010.33423\1-STRUC</div>		<div>1</div>			<div>ISSUED FOR CONSTRUCTION</div>	<div>N. DANG</div>
			<div>Records File Number</div> <div>PN13586/46/10</div>	<div>Survey Folder Number</div> <div>D7478</div>	<div>Issue</div>	<div>Description *</div> <div>Design not to be amended without authorisation by Statutory Certifier</div>	<div>Name</div>	<div>Initial</div>	<div>Date</div>		<div>Do not scale, use figured dimensions only</div>	<div>STRUCTURAL</div> <div>CISTERN RECESS SECTION AND ELEVATIONS</div>
<div>* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION</div>												

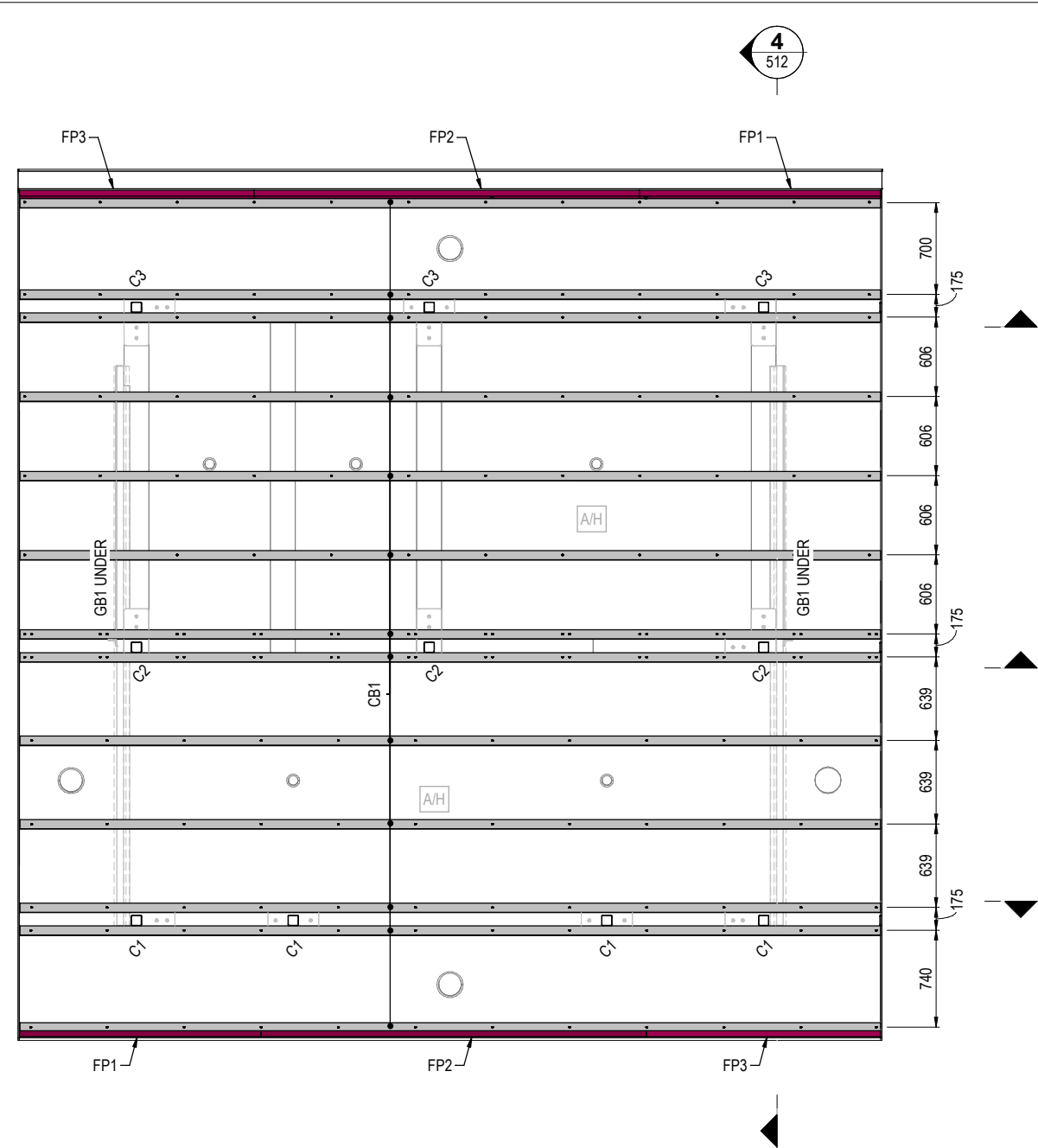
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ROOF FRAMING PLAN

SCALE: 1 : 25

METAL SHEET ROOFING (MSR) TO BE LYSAGHT 0.48mm BMT G550 TRIMDEK COLORBOND ULTRA METAL SHEET OR CERTIFIER APPROVED EQUIVALENT TO AS1397. ROOF SHEETING TO BE CREST-FIXED TO EACH BATTEN WITH 12g 45mm HEX HEAD SELF DRILLING, SELF-TAPPING SCREWS AND NEOPRENE WASHERS (1 FASTENER PER RIB)
REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT DIMENSIONS.



CEILING FRAMING PLAN

SCALE: 1 : 25

TABLE 2: ROOF & CEILING FRAMING SCHEDULE

MARK	NAME	SIZE	*LENGTH	DESIGNATION	No. REQUIRED	LEGEND
B1	ROOF BATTEN	70 x 35	6590	MGP12 H2 TREATED KD PINE BATTENS - SPACED UNIFORMLY AT 900 CRS MAX.	8	
CB1	CEILING BATTEN	70 x 35	6590	MGP 12 H2 TREATED PINE	13	
CT1	CLEAT PLATE	150 x 8	70	SS GRADE 316	24	
FP1	FASCIA PURLIN	190 x 45	1845	F27 DURABILITY CLASS 1 KD	2	
FP2	FASCIA PURLIN	190 x 45	2950	F27 DURABILITY CLASS 1 KD	2	
FP3	FASCIA PURLIN	190 x 45	1795	F27 DURABILITY CLASS 1 KD	2	
GB1	GATE BEAM	100 x 50 x 5.0	4280	RHS SS GRADE 316	2	
RB1	ROOF BEAM	150 x 100 x 5.0	6580	RHS SS GRADE 316	3	
RJ1	ROOF JOIST	150 x 45	3770	H3 TREATED LVL 15% MOISTURE CONTENT, 50 MPa BENDING STRENGTH, 13200 MPa MODULUS OF ELASTICITY (EG, WESBEAM OR BETTER), OR F27 KD HARDWOOD, AT 600 CRS MAX.	12	
RJ2	ROOF JOIST	150 x 45	3260	H3 TREATED LVL 15% MOISTURE CONTENT, 50 MPa BENDING STRENGTH, 13200 MPa MODULUS OF ELASTICITY (EG, WESBEAM OR BETTER), OR F27 KD HARDWOOD, AT 600 CRS MAX.	12	

NOTE: *DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO FABRICATION

LEGEND:

DOWNLIGHT LOCATIONS IN CEILING



ACCESS HATCH

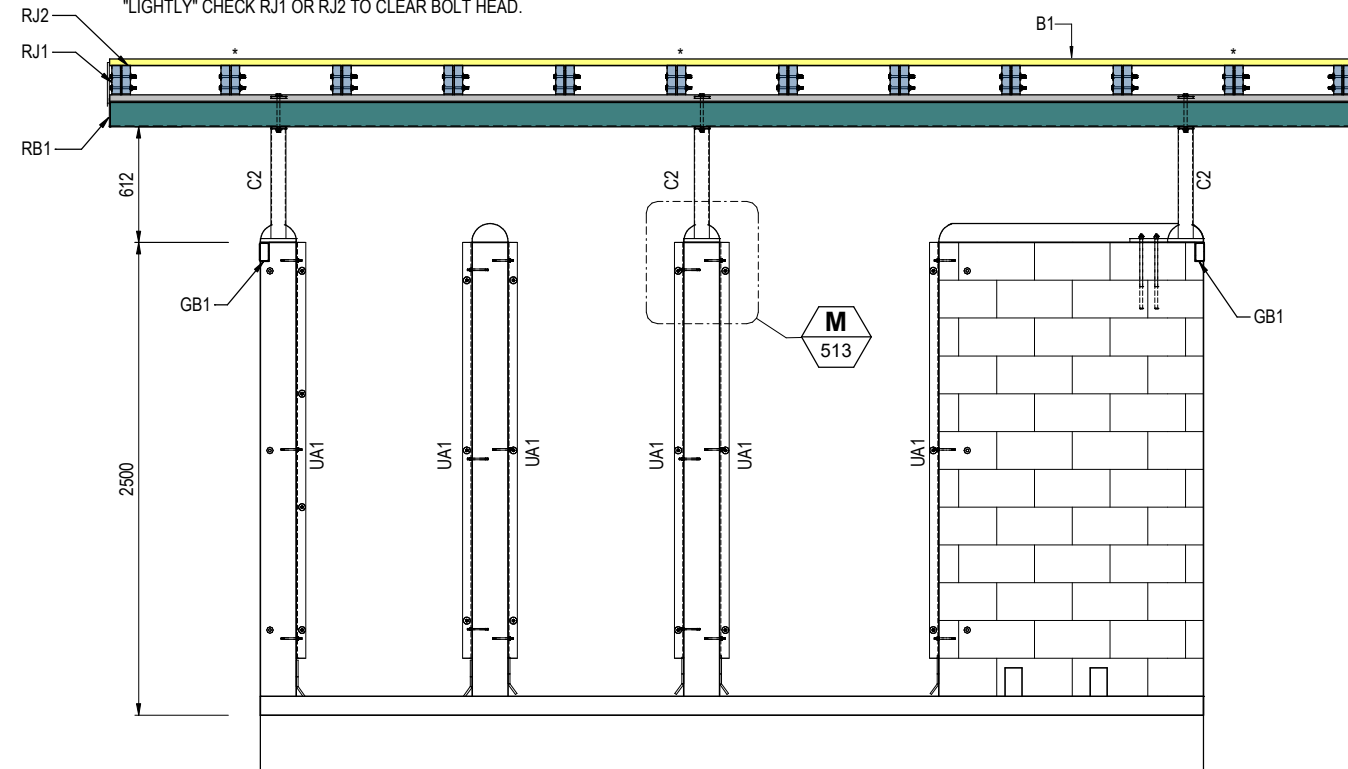


NOTES:

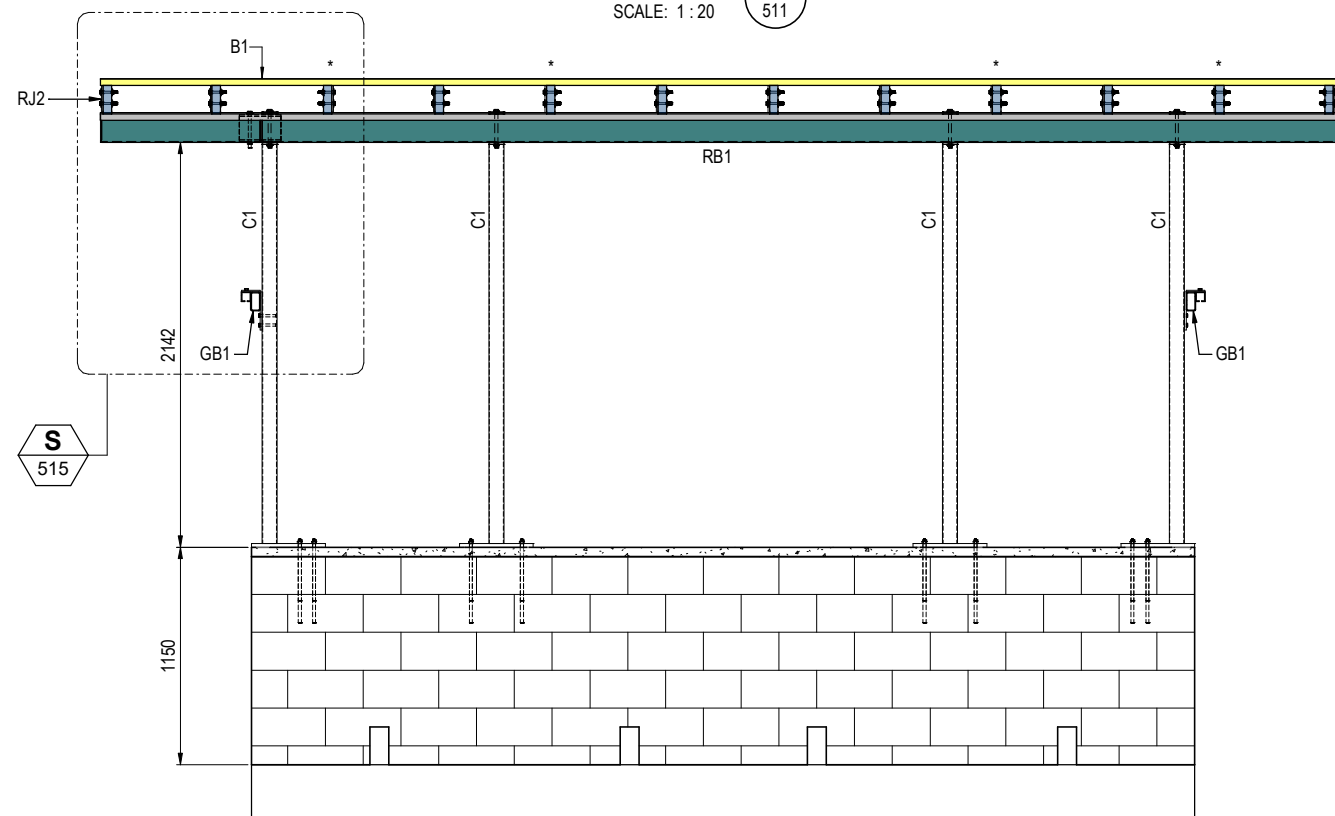
- ENSURE LIGHT FIXINGS DO NOT CLASH WITH CEILING AND ROOF STRUCTURAL MEMBERS. REFER DRAWING No. 59590.404 FOR LIGHT SET OUT DIMENSIONS.
- SEAL ANY ROOF PENETRATION FOR PLUMBING PIPES WITH AN APPROVED DECKTITE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
- LVL HAS LOWER DURABILITY THAN HARDWOOD. LVL OPTION IS ACCEPTABLE PROVIDED ADDITIONAL MAINTENANCE MEASURES ARE IMPLEMENTED TO ADDRESS DURABILITY CONCERNS AND TO ENSURE THE NOMINATED DESIGN LIFE.

CITY OF GOLD COAST	Infrastructure Gold Coast Engineering, Design and Standards	Drafted J. PARADA	Engineered S. KHAJEHZADEH					Bar Scales 0 0.5 m 1 m 1.5 m SCALE: 1:25 @A1	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY	Project Number 33424		
		Designed J. PARADA	Certified N. DANG RPEQ 16272							Sheet of 11 16	Issue 1	
		Design & Drafting Checked S. HART	Authorised A. JAFARI							Drawing Number 59590.511		
		Project Identifier: CAD File Name QuotaPrk.010.33423\1-STRUC										
* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION				Records File Number PN13586/46/10	Survey Folder Number D7478	1 ISSUED FOR CONSTRUCTION		N. DANG	ND	24/06/26	STRUCTURAL ROOF AND CEILING FRAMING PLAN AND SCHEDULE	
				Design not to be amended without authorisation by Statutory Certifier				Do not scale, use figured dimensions only				

* DETAILER TO ENSURE C1, C2 AND C3 BOLTS DO NOT CLASH WITH CLEAT. OFFSET CLEAT UP TO 30mm TO PROVIDE BOLT CLEARANCE. INSTALLER MAY "LIGHTLY" CHECK RJ1 OR RJ2 TO CLEAR BOLT HEAD.

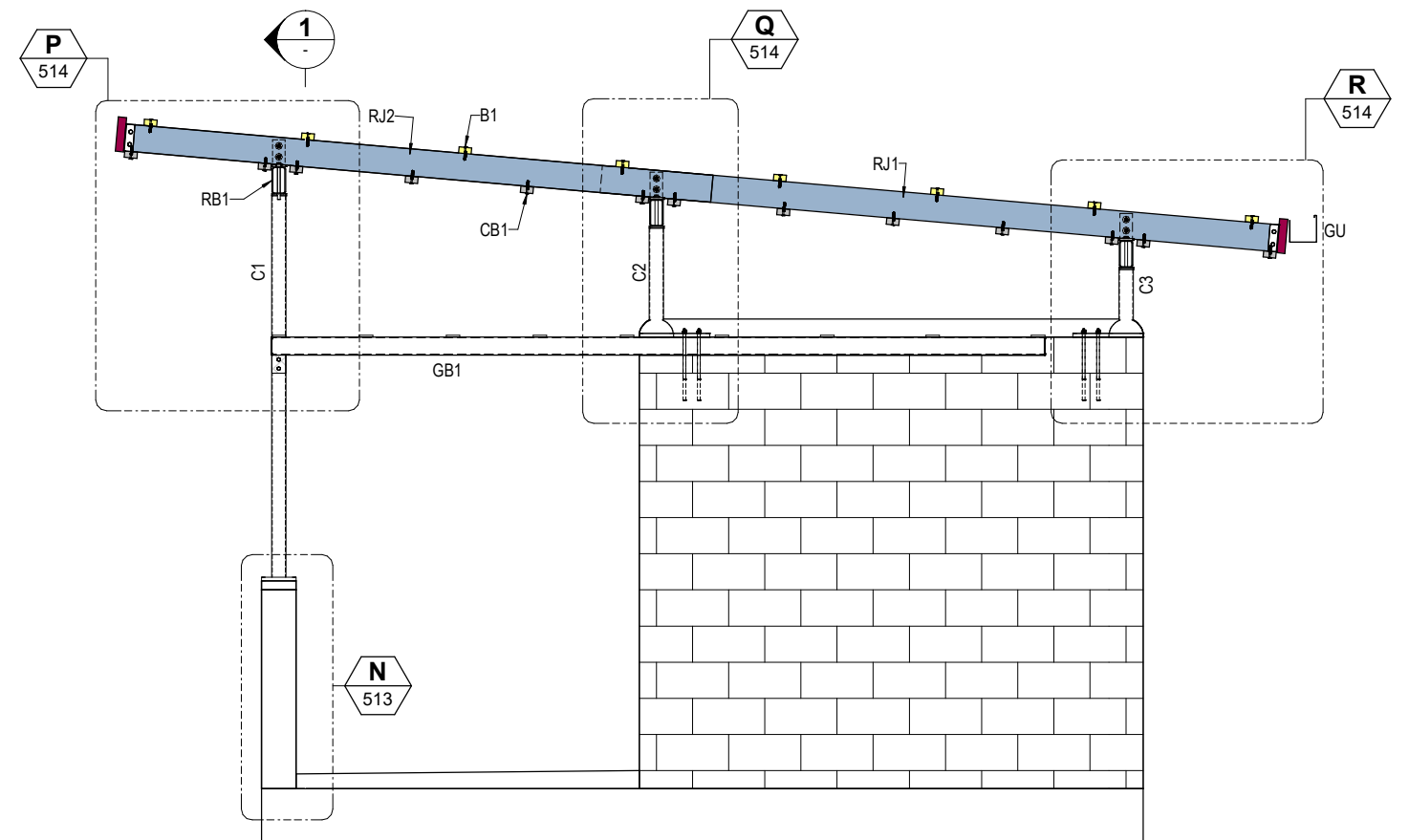


SECTION 2
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511

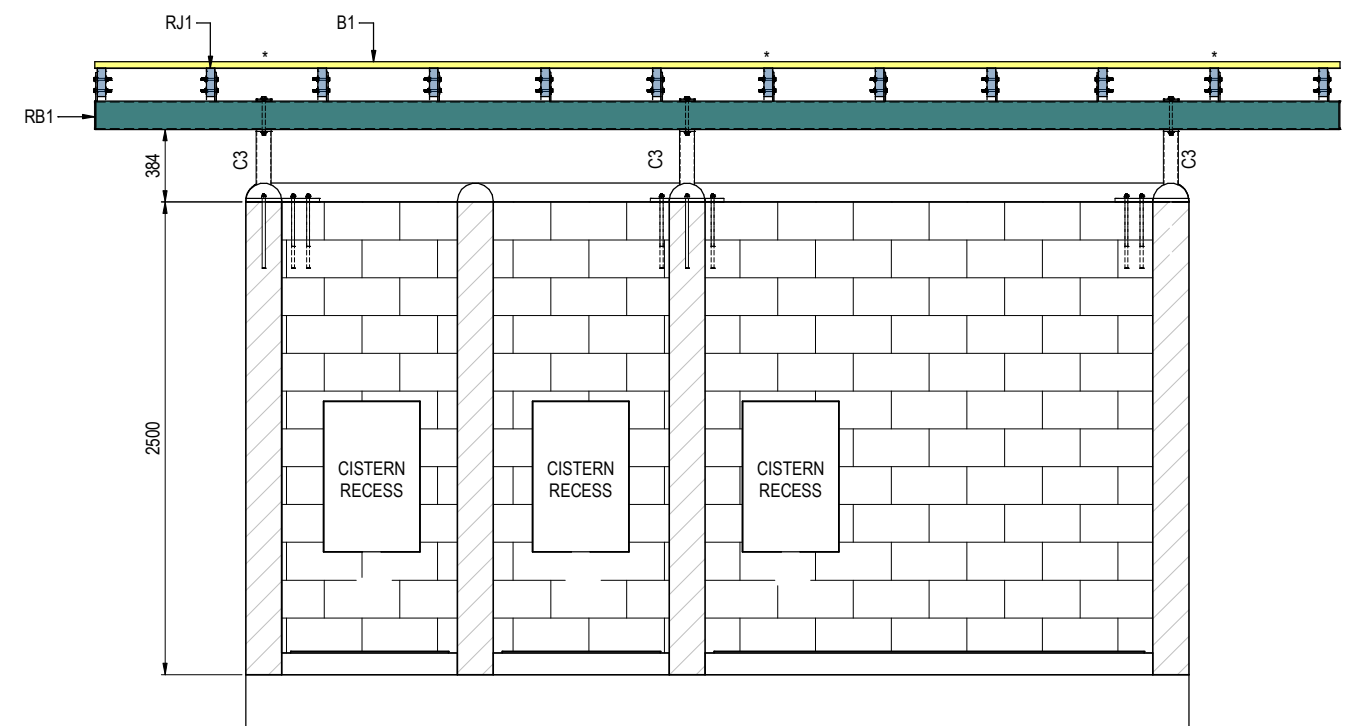


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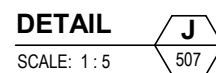
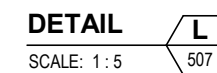
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No. ST-516 FOR OPTION 2**



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SECTION 3
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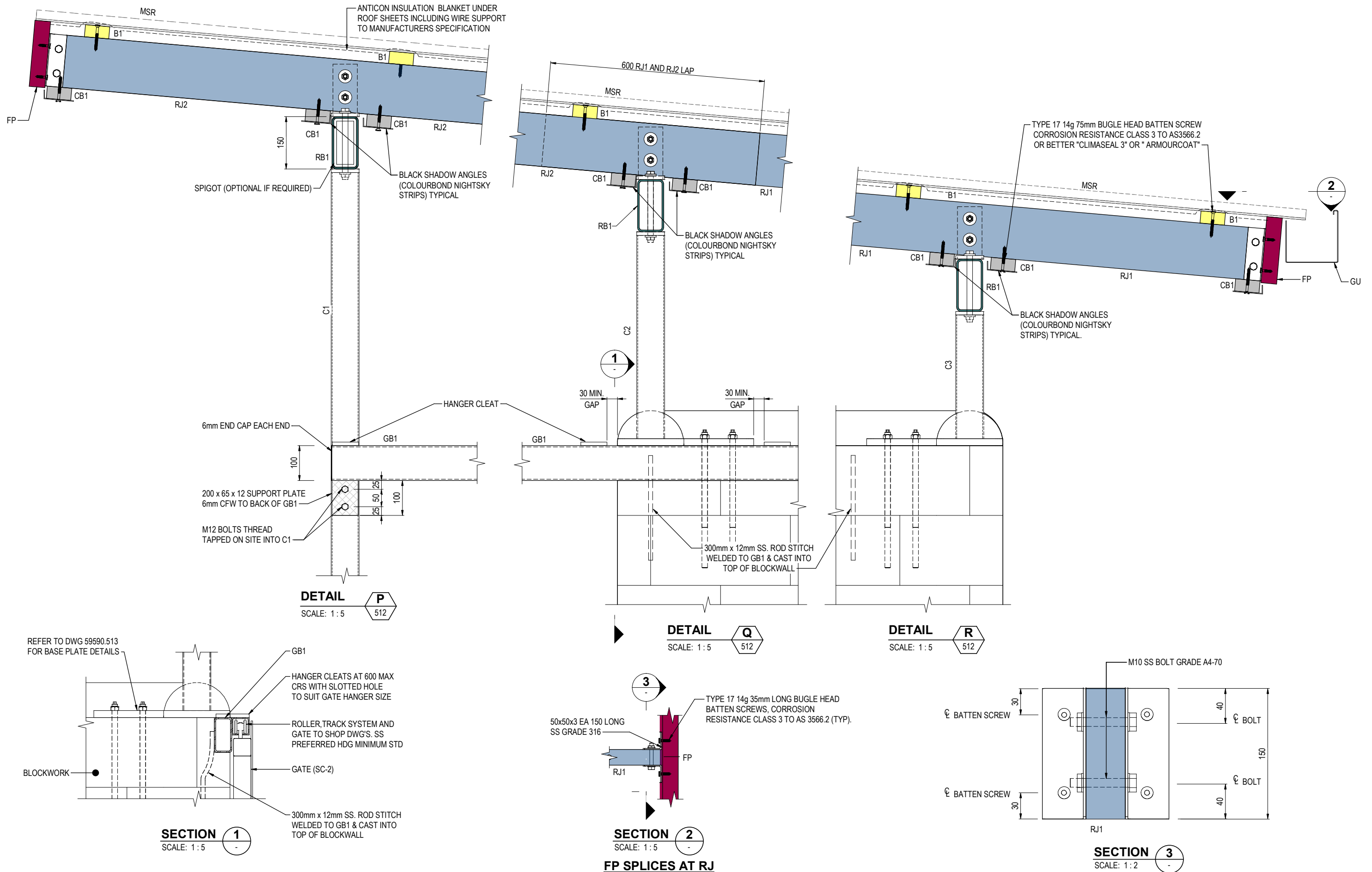


DETAIL  **M**
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DETAIL  **N**
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TYPICAL BASE PLATE AND ANCHOR DETAILS
SCALE: 1 : 5

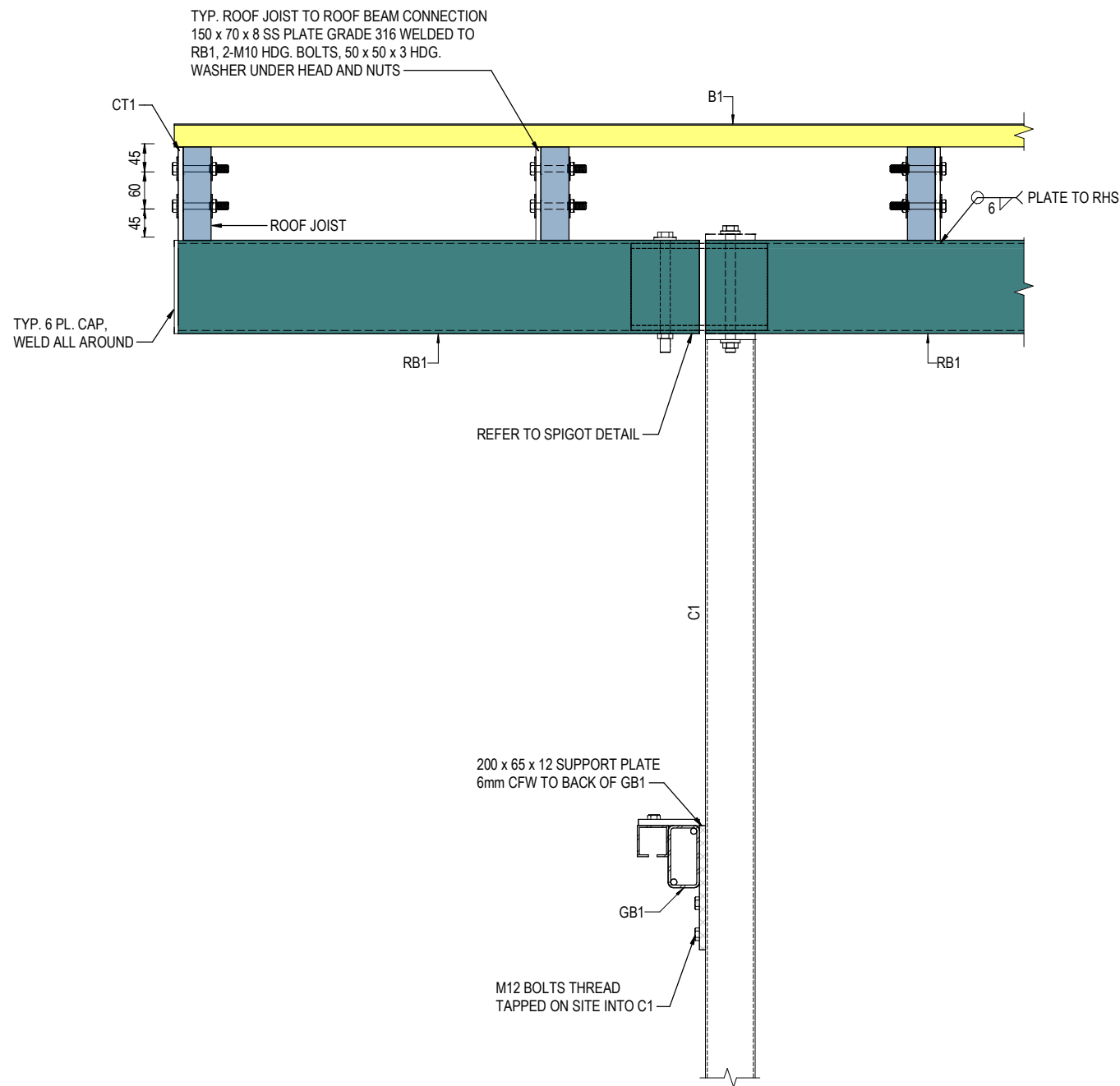
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<div>CITY OF</div> <div>GOLD COAST™</div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>	Drafted J. PARADA	Engineered S. KHAJEZHDAEH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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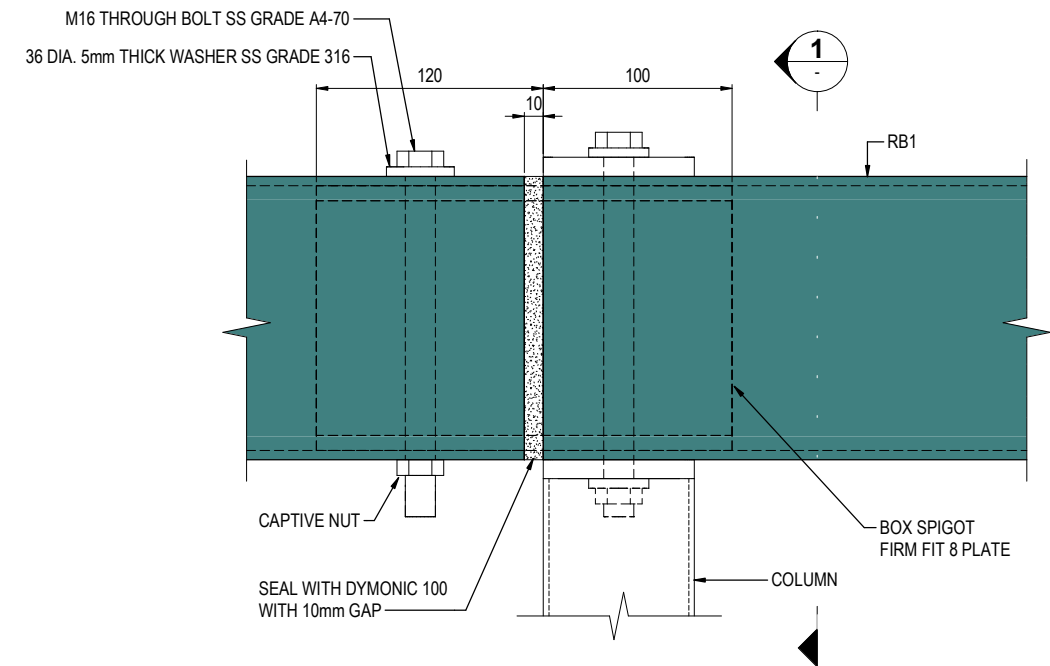
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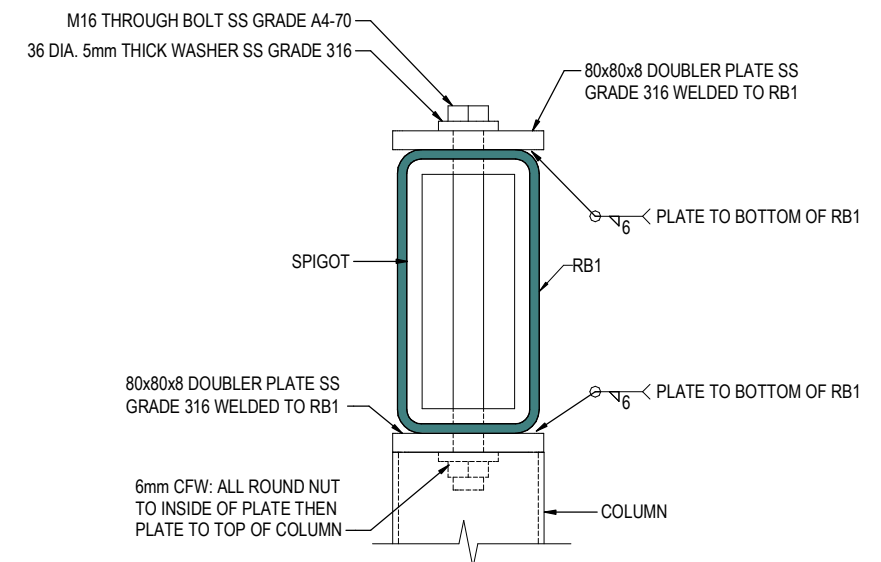
DETAIL

SCALE: 1:5



SPIGOT DETAIL

SCALE: 1:2



SECTION 1

SCALE: 1:2



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Infrastructure Gold Coast
Engineering, Design and Standards

General Manager Engineering, Design and Standards
(Chief Engineer)
J. WAGNER

Certified Engineering Document Reference
A121687627

Drafted
J. PARADA

Designed
J. PARADA

Design & Drafting Checked
S. HART

Project Identifier - CAD File Name
QuotaPrk.010.33423\1-STRUC

Records File Number
PN13586/46/10

Engineered
S. KHAJEHZADEH

Certified
N. DANG RPEQ 16272

Authorised
A. JAFARI

Survey Folder Number
D7478

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Issue

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Description *

N. DANG

Name

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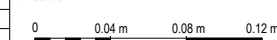
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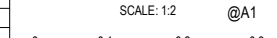
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Bar Scales



SCALE: 1:2 @A1



SCALE: 1:5 @A1

Do not scale, use figured dimensions only

MARINE PARADE, BIGGERA WATERS
QUOTA PARK
NEW AMENITIES FACILITY

STRUCTURAL

ROOF AND WALL FRAMING DETAILS - SHEET 2 OF 2

Project Number

33424

Sheet of

15

16

Issue

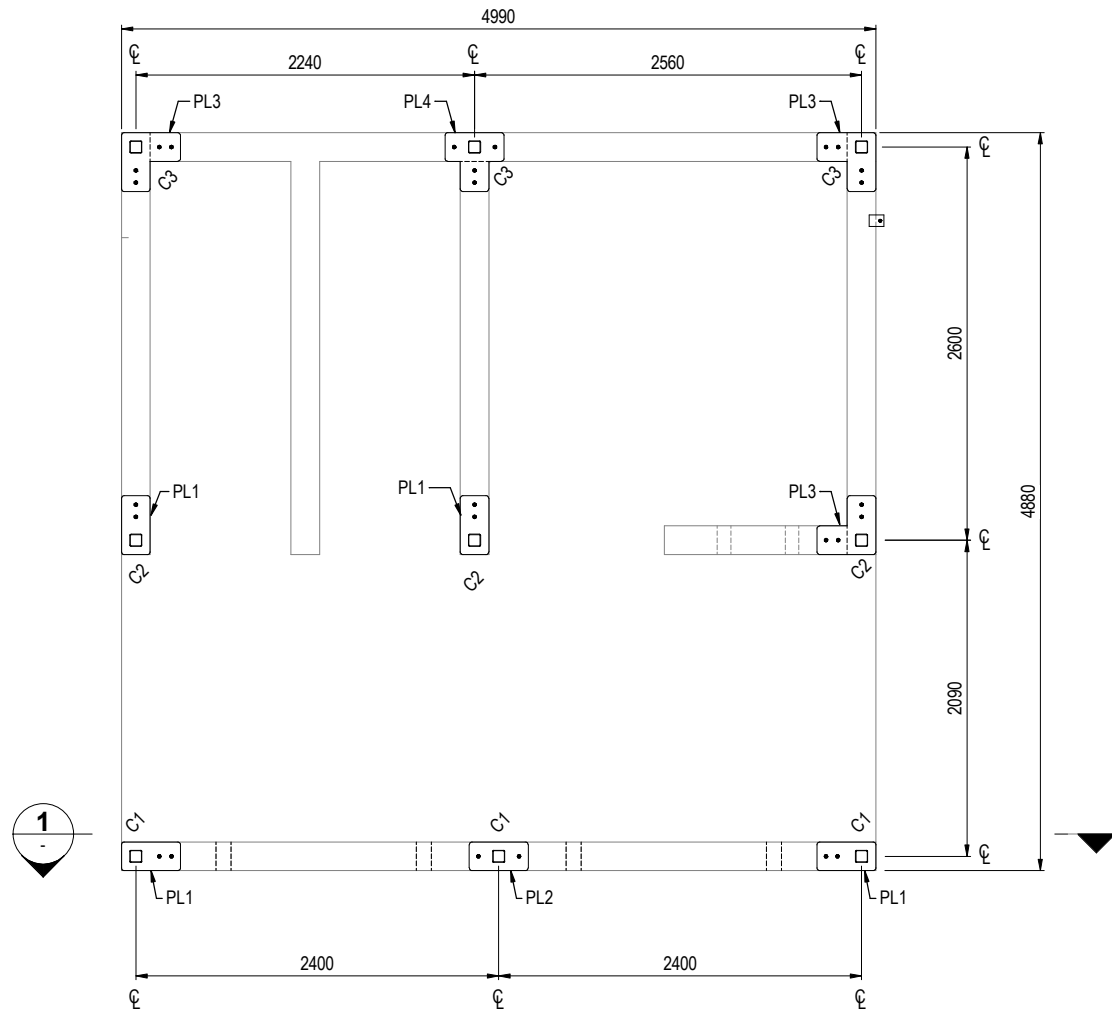
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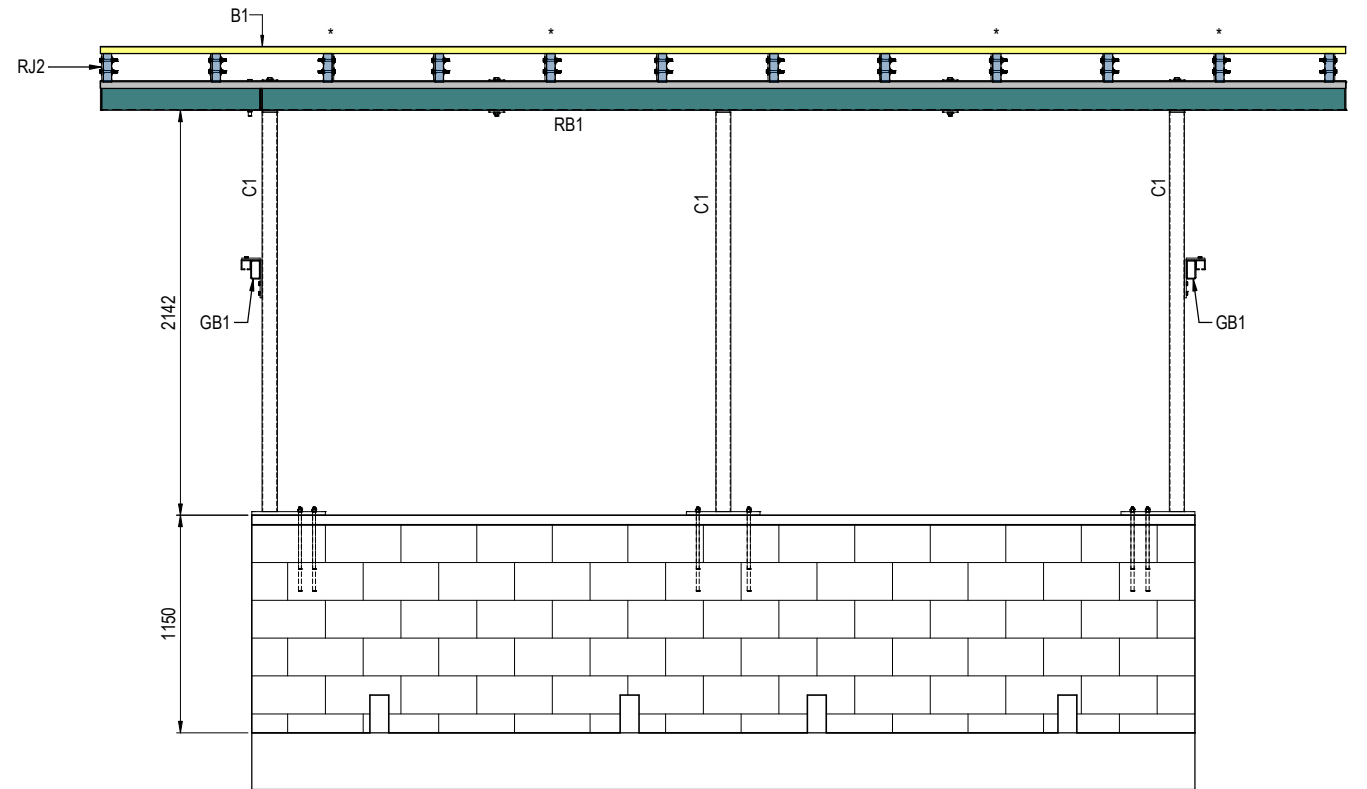
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**COLUMN - KEY PLAN OPTION 2, REFER
DRG No. ST-507 FOR OPTION 1**

SCALE: 1 : 25



**ELEVATION 1 OPTION 2, REFER DRG
SCALE: 1 : 20 402 No. ST-507 FOR OPTION 1**

<div>CITY OF</div> <div>GOLD COAST™</div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>	Drafted J. PARADA	Engineered S. KHAJEHZADEH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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PROPOSED LEGEND

- D

DRAINAGE LINE
- SANITARY DRAINAGE LINE
- VENT LINE
- S

SEWER GRAVITY LINE
- WATER SERVICE
- W

WATER MAIN
- WM

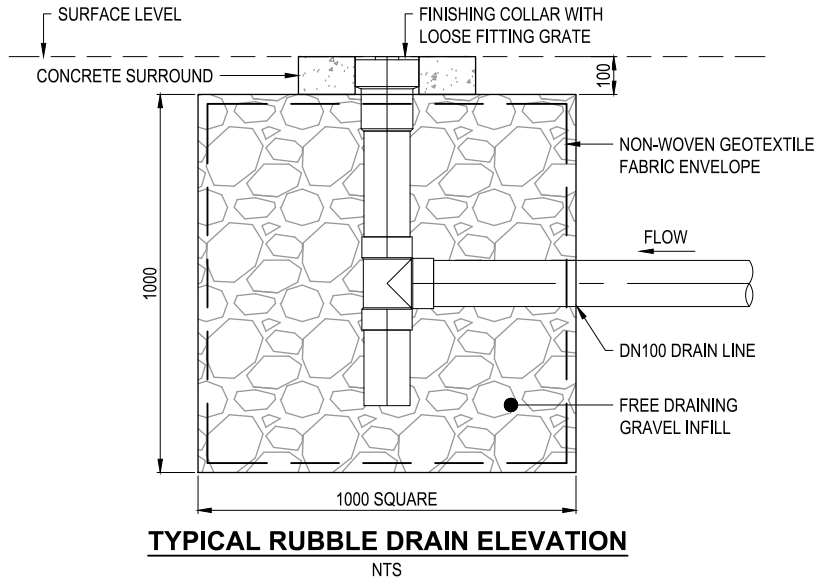
WATER METER
- ISOLATION VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- RPZD
- PIPE RISER
- IO

INSPECTION OPENING
- IOS

INSPECTION OPENING (TO OPENING)

ABBREVIATIONS

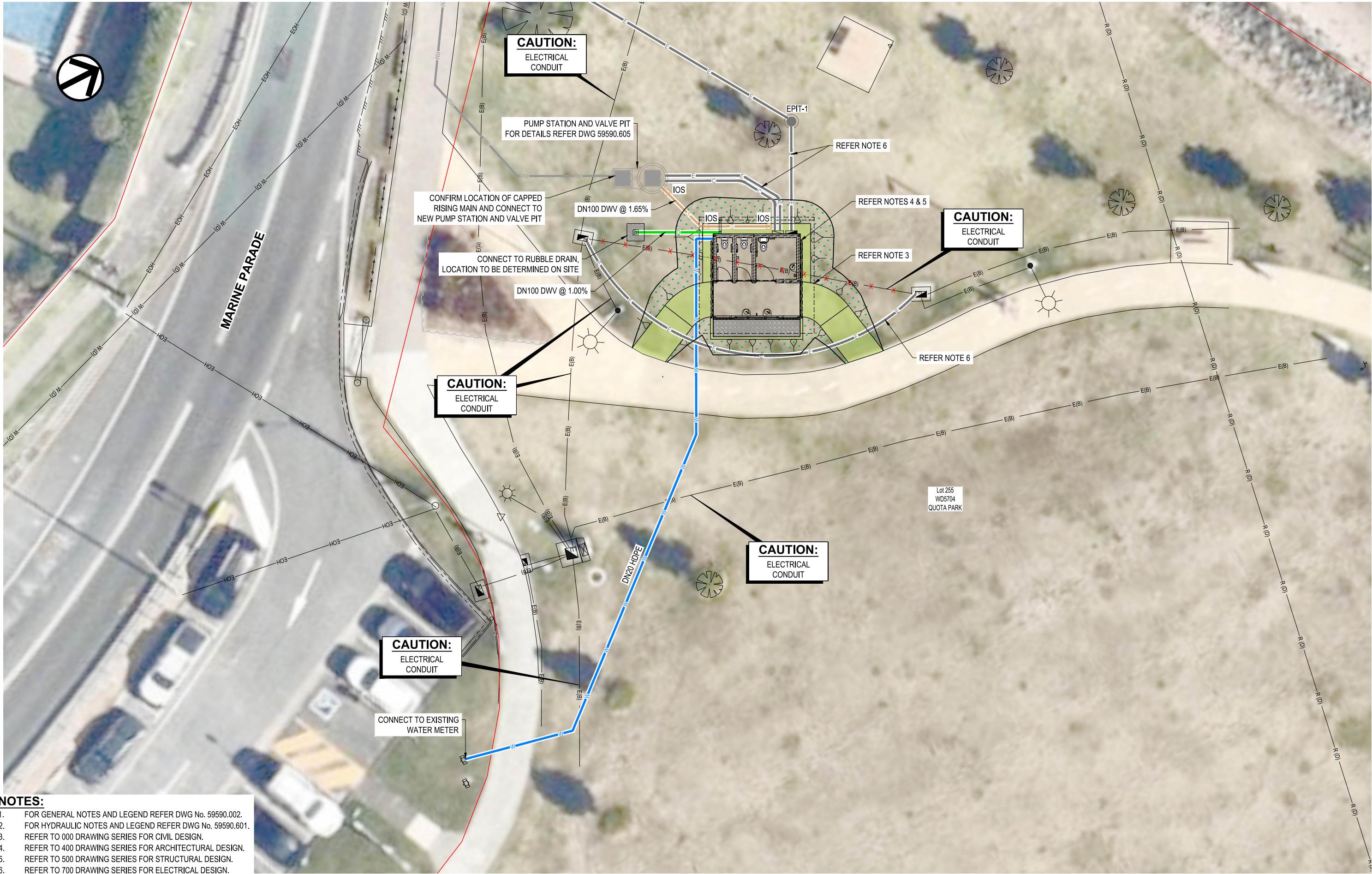
AC	ASBESTOS CEMENT
AHD	AUSTRALIAN HEIGHT DATUM
B	BASIN
BTH	BATH
CICL	CAST IRON CEMENT LINED
CISL	CAST IRON SPUN LINED
CoGC	CITY OF GOLD COAST
CUF	CONCRETE UN-REINFORCED
DI	DUCTILE IRON
DICL	DUCTILE IRON CEMENT LINED
DIFBE	DUCTILE IRON FUSION BONDED EPOXY
DIPU	DUCTILE IRON POLYURETHANE LINE
DP	DOWN PIPE
DWV	DRAIN, WASTE AND VENT (PVC-U)
FH	FIRE HYDRANT
FSL	FINISHED SURFACED LEVEL
GI	GALVANISED IRON
HC	HOSE COCK
HDPE	HIGH-DENSITY POLYETHYLENE
IO	INSPECTION OPENING
IOS	INSPECTION OPENING TO SURFACE
NTS	NOT TO SCALE
PRV	PRESSURE REDUCING VALVE
PVC-M	POLYVINYL CHLORIDE - MODIFIED
PVC-O	PLASTICISED POLYVINYL CHLORIDE - ORIENTED
PVC-U	UNPLASTICISED POLYVINYL CHLORIDE
RCBC	REINFORCED CONCRETE BOX CULVERT
SHR	SHOWER
VB	VACUUM BREAKER
WC	WATER CLOSET (TOILET)
WM	WASHING MACHINE



PLUMBING AND DRAINAGE NOTES - GENERAL:

- ALL HYDRAULIC SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH AS3500.1-4 2025, QLD PLUMBING AND DRAINAGE ACT 2018, NCC 2022 - VOLUME 3 AND THE QUEENSLAND PLUMBING AND WASTEWATER CODE 2025.
- ALL SANITARY DRAINAGE BELOW GROUND SHALL BE DWV CLASS PVC-U PIPE AND FITTINGS (MANUFACTURED IN ACCORDANCE WITH AS/NZS 1260) MIN 100Ø UNLESS SHOWN OTHERWISE AND LAID IN ACCORDANCE WITH AS/NZS 2032 AT THE GRADE SPECIFIED IN THE DESIGN DRAWINGS, OR IF NOT SPECIFIED IN ACCORDANCE WITH AS/NZS 3500 TABLE 3.2.
- BELOW GROUND SANITARY PLUMBING AND DRAINAGE PIPE EMBEDMENT TO BE:
 - MIN 100 SIDE SUPPORT AND OVERLAY WITH 50 BEDDING,
 - MATERIAL TO BE CLEAN SAND OR OTHER APPROVED MATERIAL DETERMINED ON SITE BASED ON REQUIREMENTS OF AS/NZS 3500 AND AS/NZS 2032,
 - WHERE THE BASE OF THE TRENCH IS ROCK, CEMENT MORTAR BEDDING IS REQUIRED.
- ALL ABOVE GROUND SANITARY PLUMBING OR DRAINAGE SHALL BE DWV PVC-U PIPE AND FITTINGS TO AS/NZS 1260 WITH SOLVENT WELDED JOINTS UNLESS APPROVED BY THE CoGC SUPERINTENDED AND IN COMPLIANCE WITH AS/NZS 3500. ALL SANITARY PLUMBING OR SUSPENDED DRAINAGE SHALL BE DWV CLASS PVC-U PIPE AND FITTINGS TO AS/NZS 1260) WITH SOLVENT WELDED JOINTS. WHERE PVC OR HDPE PIPES PASS THROUGH A FIRE RATED ELEMENT, FIRE STOP COLLARS SHALL BE INSTALLED TO AS 4072.1.
- DRAINAGE GRATES/LIDS LOCATED IN TRAFFICABLE AREAS SHALL BE 'D' CLASS AND CLASS B IN OTHER AREAS.
- MAKE GOOD ANY DAMAGE TO OTHER SERVICES AND TO FLOORS, WALLS, CEILINGS, ROADWAYS, FOOTINGS, EXISTING BUILDINGS, LANDSCAPING AND SURFACES GENERALLY AND ANY OTHER WORK THAT MAY BE DISTURBED OR INJURED BY CARTAGE OR OTHER OPERATIONS IN CARRYING OUT THE WORK.
- ALL STORMWATER DRAINAGE BELOW GROUND SHALL BE SW CLASS PVC-U PIPE AND FITTINGS TO AS1254 LAID AT GRADES AND SIZES INDICATED AND ALL UNSIZED OR GRADED SECTIONS BEING MIN. 100Ø AND LAID AT MIN. 1% GRADE.
- FLOW RESTRICTING DEVICES WILL BE PROVIDED TO ALL OUTLETS, EQUAL TO JEMFLOW SYSTEMS. FLOW RATES AS COLD WATER SERVICES MUST ENSURE EFFICIENT USE OF DRINKING WATER BY LIMITING WATER USAGE IN ACCORDANCE WITH NCC VOLUME 3:
 - TAPS TO 9 L/min,
 - FLUSHING DEVICES TO DUAL 3L/6L CISTERNS OR 2.5L FOR SINGLE URINALS.
- ALL HOT WATER, COLD WATER, FIRE, GAS AND WARM WATER SERVICE PIPEWORK ABOVE GROUND SHALL BE TYPE "B" SOLID DRAWN COPPER TUBE TO AS 1432 WITH SLIPPED AND SILVER BRAZED JOINTS.
- BURIED METALLIC WATER SERVICE PIPEWORK AND FITTINGS SHALL BE PROVIDED WITH CORROSION PROTECTION SUITABLE FOR THE PREVAILING SOIL CONDITIONS. CORROSION PROTECTION SYSTEMS SHALL BE NON-BITUMINOUS PETROLATUM, BUTYL, POLYETHYLENE SLEEVE, HEAT-SHRINK, OR OTHER APPROVED WRAP SYSTEM INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RELEVANT WATER AUTHORITY REQUIREMENTS.
- SELECTION AND INSTALLATION OF CORROSION PROTECTION SHALL COMPLY WITH THE PERFORMANCE REQUIREMENTS OF NCC VOLUME THREE (PLUMBING CODE OF AUSTRALIA) AND AS/NZS 3500 SERIES. PROPRIETARY PRODUCT NOMINATION IS NOT INTENDED; ANY APPROVED EQUIVALENT SYSTEM PROVIDING LONG-TERM CORROSION RESISTANCE IN THE INSTALLED ENVIRONMENT SHALL BE ACCEPTABLE.
- ALL HOT WATER SERVICE PIPEWORK SHALL BE COPPER TUBE AND FITTINGS COMPLYING WITH AS/NZS 1432, MINIMUM TYPE B, OR OTHER APPROVED MATERIAL SUITABLE FOR HOT WATER APPLICATIONS IN ACCORDANCE WITH THE NCC VOLUME THREE (PLUMBING CODE OF AUSTRALIA) AND AS/NZS 3500 SERIES.
- HOT WATER PIPEWORK SHALL BE THERMALLY INSULATED WITH A PROPRIETARY CLOSED-CELL INSULATION SYSTEM SUITABLE FOR THE OPERATING TEMPERATURE AND INSTALLED IN ACCORDANCE WITH AS/NZS 3500.4 AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS. JOINTING METHODS SHALL COMPLY WITH AS/NZS 3500 AND THE PIPE MANUFACTURER'S REQUIREMENTS.
- PROVIDE SIGNAGE OVER ALL "NON POTABLE" OUTLETS.
- ALL HOSE COCKS (HC) SHALL BE PROVIDED WITH BACKFLOW PREVENTION COMPLYING WITH AS/NZS 2845.1 AND AS/NZS 3500 SERIES, SUITABLE FOR THE HAZARD RATING OF THE INSTALLATION. DEVICES SHALL BE WATERMARK CERTIFIED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- EXISTING SERVICES INDICATED IN THESE DOCUMENTS ARE INDICATIVE ONLY, ALLOW TO EXCAVATE AND EXPOSE EXISTING SERVICES TO VERIFY EXACT LOCATION AND LEVELS OF SERVICES PRIOR TO COMMENCEMENT OF ANY WORKS.
- CONTRACTOR TO ALLOW FOR CUTTING OF EXISTING CONCRETE, EXCAVATION, BACKFILLING AND MAKING GOOD EXISTING SLAB TO STRUCTURAL ENGINEERS REQUIREMENTS.
- ALL SPOON DRAIN OUTLETS, STORMWATER INSPECTION CHAMBERS, RISING MAINS, PUMP WELLS AND ALL PIPE INLETS AND OUTLETS ARE TO BE MADE WATER TIGHT INCLUDING AT THE PENETRATION OF THE BASEMENT FLOOR SLAB USING PUDDLE FLANGES, PROPRIETY WATER STOPS CAST-IN-SITU AND OR TANKING IN ACCORDANCE WITH AS 3740 AND AS 4654.
- ALL PIPES SHALL BE ADEQUATELY SUPPORTED AND SECURED IN AN APPROVED MANNER. ALL COPPER SHALL NOT COME IN CONTACT WITH ANY OTHER SERVICE PIPES OR PART OF THE BUILDING STRUCTURE UNLESS INSULATED WITH 4mm THICK PVC-U LAGGING.
- ALL PIPING TO BE CONCEALED WITHIN WALLS OR CEILING SPACES WHERE POSSIBLE. NO SURFACE FIXING.
- ANY PIPE PENETRATING A ROOF SHALL BE ADEQUATELY SEALED FROM ALL WEATHER BY MEANS OF A "DEKtite" OR EQUAL.

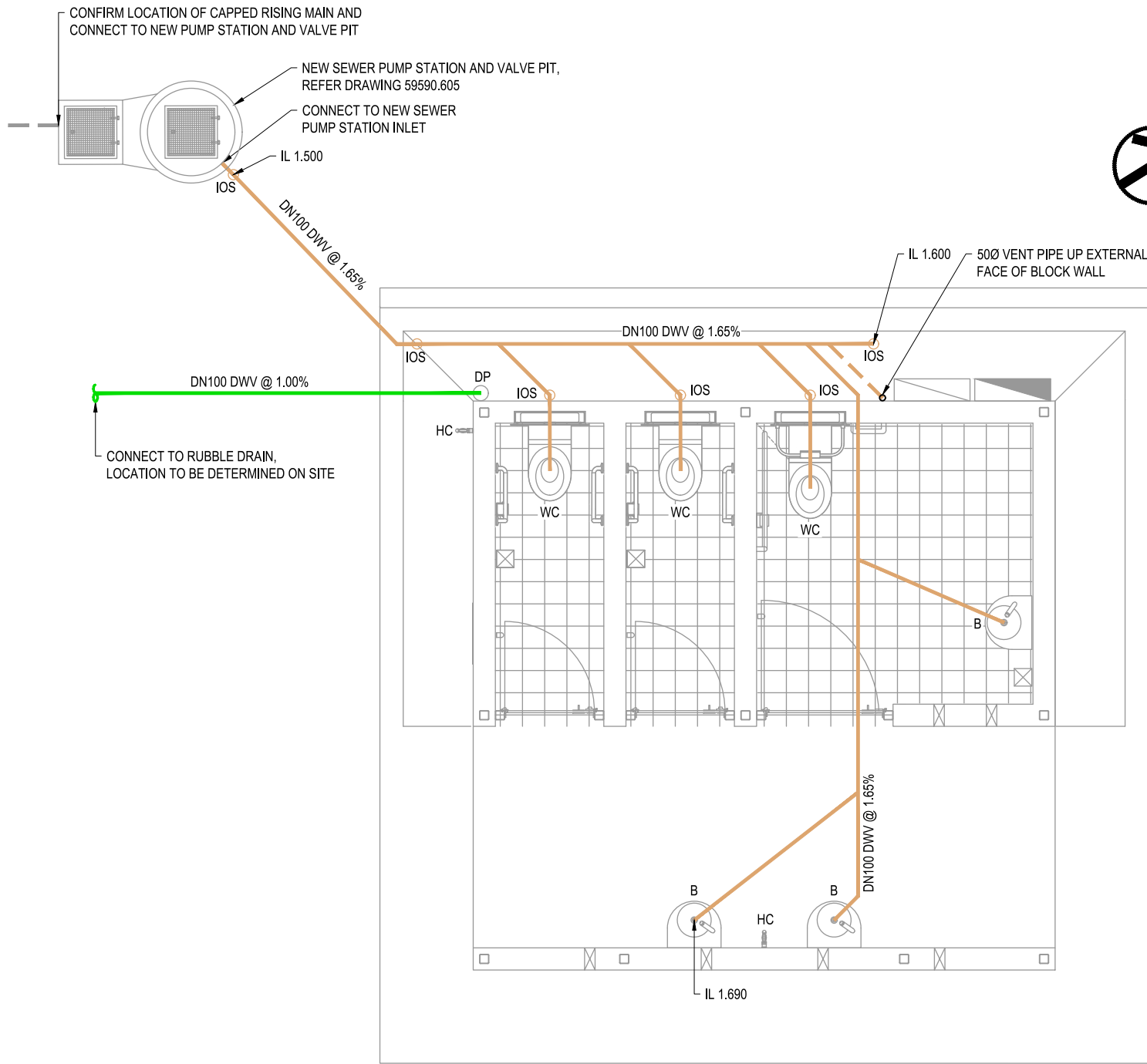
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			<div>Designed</div> <div>D. MCKEE</div>	<div>Certified</div> <div>R. WEBSTER</div>	<div>RPEQ</div> <div>33292</div>								<div>Sheet of</div> <div>15</div>	<div>Issue</div> <div>1</div>
			<div>Design & Drafting Checked</div> <div>S. HART</div>	<div>Authorised</div> <div>A. JAFARI</div>										
			<div>General Manager Engineering, Design and Standards</div> <div>(Chief Engineer) J. WAGNER</div>	<div>Certified Engineered Document Reference</div> <div>A121687627</div>	<div>Project Identifier\CAD File Name</div> <div>QuotaPrk.010.33423\UTIL</div>	<div>1</div>	<div>ISSUED FOR CONSTRUCTION</div>	<div>R. WEBSTER</div>	<div>RW</div>			<div>24/06/26</div>		
	<div>THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION</div>		<div>Records File Number</div> <div>PN13586/46/10</div>	<div>Survey Folder Number</div> <div>D7478</div>	<div>Issue</div>	<div>Description ✱</div>	<div>Name</div>	<div>Initial</div>	<div>Date</div>			<div>Do not scale, use figured dimensions only</div>	<div>HYDRAULIC</div> <div>NOTES AND LEGEND</div>	<div>Drawing Number</div> <div>59590.601</div>
<div>Design not to be amended without authorisation by Statutory Certifier</div>														



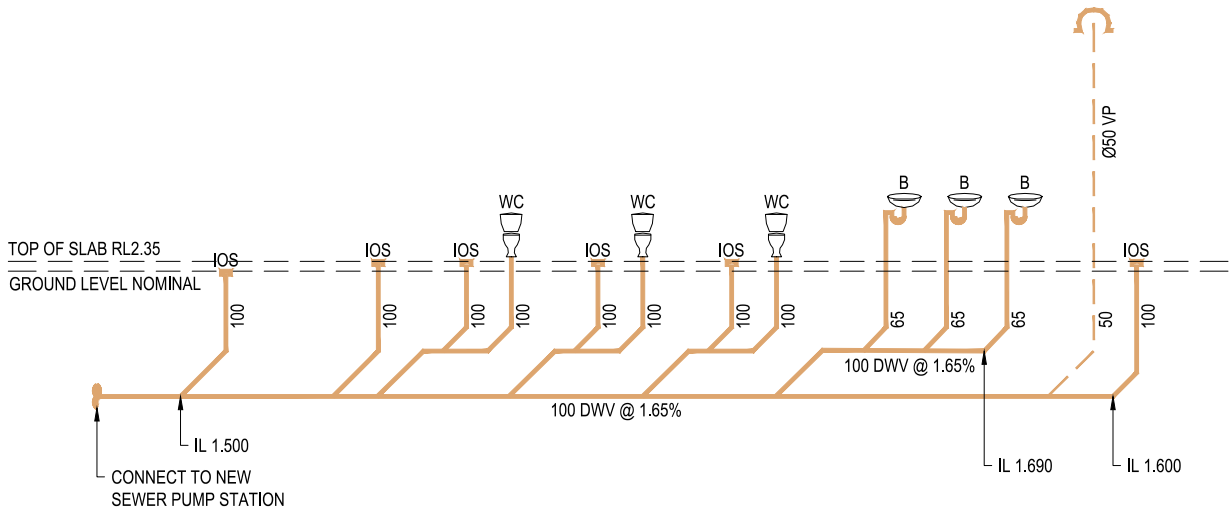
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 2. FOR HYDRAULIC NOTES AND LEGEND REFER DWG No. 59590.601.
 3. REFER TO 000 DRAWING SERIES FOR CIVIL DESIGN.
 4. REFER TO 400 DRAWING SERIES FOR ARCHITECTURAL DESIGN.
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 6. REFER TO 700 DRAWING SERIES FOR ELECTRICAL DESIGN.

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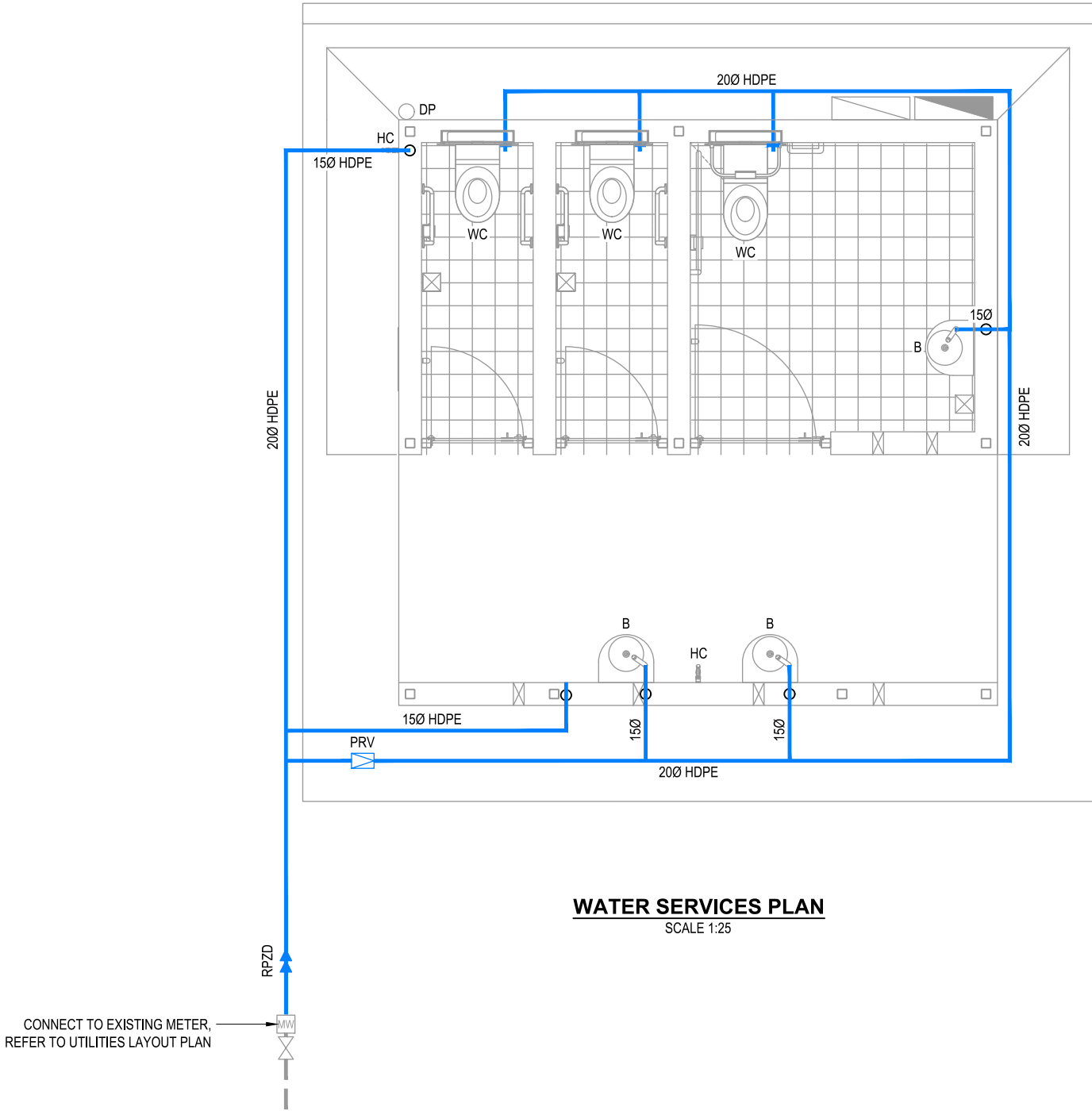
DRAINAGE SERVICES PLAN
SCALE 1:25



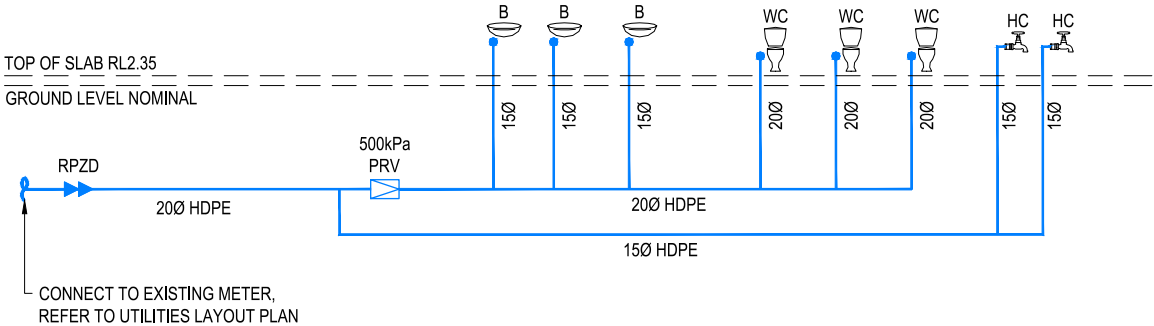
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<div>CITY OF GOLDCOAST™</div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>		Drafted D. MCKEE	Engineered R. WEBSTER							<div>Bar Scales</div> 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NOTE:
BACKFLOW PREVENTION SHALL BE PROVIDED AT THE WATER SERVICE CONNECTION BY MEANS OF A RPZD ASSEMBLY SUITABLE FOR MEDIUM HAZARD CONTAINMENT, INSTALLED IMMEDIATELY DOWNSTREAM OF THE WATER METER IN ACCORDANCE WITH AS/NZS 3500.1, AS/NZS 2845.1, THE NCC VOLUME THREE (PLUMBING CODE OF AUSTRALIA), AND LOCAL WATER AUTHORITY REQUIREMENTS. DEVICES SHALL BE WATERMARK CERTIFIED, ACCESSIBLE FOR TESTING AND MAINTENANCE, AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.



WATER SERVICES PLAN
SCALE 1:25



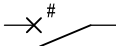
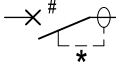
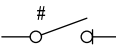
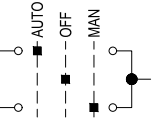
WATER SERVICE SCHEMATIC
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<div><div>CITY OF</div><div>GOLDCOAST™</div></div>	<div>Infrastructure Gold Coast</div> <div>Engineering, Design and Standards</div>		Drafted D. MCKEE	Engineered R. WEBSTER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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POWER LEGEND	
PART	DESCRIPTION
	CONDUIT ELECTRICAL UNDERGROUND CLASS 12 PVC CONDUIT (ORANGE HEAVY DUTY) SIZE AND NUMBER AS SPECIFIED ON GENERAL WORKS DRAWING AND CONDUIT IDENTIFICATION SCHEDULE
	CONDUIT COMMUNICATION UNDERGROUND PVC CONDUIT (WHITE MEDIUM DUTY) SIZE AND NUMBER AS SPECIFIED ON GENERAL WORKS DRAWING AND CONDUIT IDENTIFICATION SCHEDULE
 DB	NEW DISTRIBUTION BOARD (DB)
	Ø600 CIRCULAR PIT TRI UNDERGROUND T60 TRI TUFF CIRCULAR PIT (TRITCP) T60 TRI TUFF COLLAR (TRITUFFCCC) T60 LOCKABLE COMPOSITE LID, CLASS B, LABELLED "ELECTRICAL" (TRITUFFCLE) T60 CONCRETE SURROUND (TRITUFFCONCS) REFER TO COGC STANDARD DRAWING GCSD-ELE-02-003 FOR INSTALLATION DETAILS. PROVIDE LABELLING IN ACCORDANCE WITH COGC STANDARD DRAWING GCSD-ELE-02-005
	LIGHTING CIRCUIT DESIGNATION
	CABLE SCHEDULE CALLOUT
	STATION IDENTIFICATION NUMBER
	NEW SEWER PUMP STATION CONTROL PANEL (TO BE DESIGN AND CONSTRUCT BY THE AWARDED CONTRACTOR)
	REMOVE ELECTRICAL CABLE REMOVE REDUNDANT CONDUIT WHERE PRACTICAL

SINGLE LINE DIAGRAM LEGEND	
PART	DESCRIPTION
	PHOTO ELECTRIC SWITCH - PART No. 002
	TIMER 24hr - PART No. 006
	RELAY - PART No. 010
	CONTACTOR - PART No. 007
	MOTION SENSOR - PART No. 008
	SINGLE PHASE SYMBOL
	THREE PHASE SYMBOL
	CIRCUIT BREAKER # - CURRENT RATING
	CONTACTOR - PART No. 003 # - CURRENT RATING (AC 3)
	SINGLE POLE COMBINATION CIRCUIT BREAKER AND RCD - PART No. 004 # - CURRENT RATING * - SENSITIVITY
	ISOLATOR # - CURRENT RATING
	SURGE DIVERTER
	NEUTRAL AND EARTH BAR
	AUTO/OFF/MANUAL SELECTOR SWITCH

LIGHTING LEGEND	
PART	DESCRIPTION
 D1	8W LED RECESSED DOWNLIGHT, WHITE COLOUR, IP65,IK10, VANDAL RESISTANT. 4000K. LOW GLARE NON DIMMABLE. MANUFACTURER: SAL. TYPE: MILANO 110K. MODEL NO: DML110840NWHKP-8W
 D2	31W LED RECESSED DOWNLIGHT, WHITE COLOUR, IP65,IK10, VANDAL RESISTANT. 4000K. LOW GLARE NON DIMMABLE. MANUFACTURER: SAL. TYPE: MILANO 200K. MODEL NO: DML203040DWHKP-31W
	FLUSH RECESSED ACCESS HATCH. TRIANGLE TOOL SECURABLE. MIN 250mm x 250mm. SUBMIT DATA SHEET FOR APPROVAL.
	SWITCH WIRING
	CIRCUIT CONNECTION LINE

GENERAL NOTES:

- REFER TO DRAWING No. 59590.002 FOR GENERAL NOTES AND LEGEND.
- NOTE THAT PROPERTY BOUNDARIES ARE DERIVED FROM THE CITY OF GOLD COAST GEOSPATIAL INFORMATION SYSTEM AND ARE SUBJECT TO FINAL SURVEY UNO.
- ENSURE THE REQUIRED SURVEY CONTROL MARKS HAVE NOT BEEN DISTURBED OR DESTROYED PRIOR TO ESTABLISHMENT AND COMMENCEMENT OF WORKS. LIAISE WITH AND ALLOW SUFFICIENT TIME (48 HOURS NOTICE) FOR CITY OF GOLD COAST INFRASTRUCTURE DELIVERY SURVEY SERVICES TO PROVIDE NEW SURVEY CONTROL INFORMATION. CONTACT SURVEY SERVICES SURVEY COORDINATOR ON (07) 5581 1767.
- NOTE THAT UNDERGROUND SERVICES THAT HAVE BEEN ACCURATELY LOCATED i.e. X-RAYED OR EXCAVATED ARE IDENTIFIED ON THESE PLANS WITH A REDUCED LEVEL TO TOP OF PIPE/SERVICE. U.N.O.
- COORDINATE RELOCATION OF SERVICES THROUGH APPROPRIATE PROVIDER CONTACTS SHOWN IN THE SPECIFICATION.
- CONTACT BEFORE YOU DIG AUSTRALIA "BYDA" (Ph: 1100) PRIOR TO COMMENCING WORKS.
- ALL WORKS TO COMPLY WITH CoGC EROSION AND SEDIMENT CONTROL CODE.
- LIAISE WITH PARKS AND GARDENS FOR APPROVAL OF TREE REMOVAL/RELOCATION.
- ALL WORKS TO COMPLY WITH COGC STANDARD DRAWINGS AND ENGINEERING TECHNICAL SPECIFICATIONS.

GENERAL ELECTRICAL NOTES:

- ALLOW FOR THE RELOCATION OF ALL LUMINAIRES BY UP TO 2 METRES FROM POSITIONS NOMINATED ON THE DRAWING WITHOUT COST VARIATION. CO-ORDINATE EQUIPMENT LOCATIONS WITH OTHER SERVICES TRADES PRIOR TO INSTALLATION ON SITE.
- ENSURE SUB CIRCUIT CABLES (UNLESS NOMINATED ELSEWHERE) ARE A MINIMUM 2.5mm² FOR LIGHTING AND A MINIMUM 2.5mm² FOR POWER WITH FINAL CABLE SIZE SELECTED WITH CONSIDERATION TO THE DERATING DUE TO BUNCHING, PROXIMITY TO OTHER CIRCUITS AND THE RATING OF THE PROTECTIVE DEVICE AS REQUIRED BY AS/NZS 3000 AND AS/NZS 3008.1.
- ENSURE FINAL ROUTES ARE CO-ORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CABLE LADDER/TRAY, DUCT AND CONDUIT ROUTES ARE INDICATIVE ONLY. PROVIDE ALLOWANCE FOR OFFSETS AND LEVEL CHANGES.
- CONCEAL ALL FINAL SUB CIRCUIT WIRING. ENSURE ALL FINAL SUB CIRCUIT WIRING IN CEILING VOID IS CLEAR OF CEILING SUPPORTS.
- COMPLY WITH AS/NZS 3000, ELECTRICAL SAFETY ACT, QLD 2002 AND OTHER RELEVANT CODES AND STANDARDS.
- INSTALL TRENCHING AND ELECTRICAL SYSTEMS SO AS TO ENSURE THAT THE WORK WILL NOT CAUSE ANY DAMAGE TO OTHER SERVICES.
- REFER TO STANDARD DRAWING No. GCSD-ELE-02-001 FOR TRENCHING DETAILS.
- PROVIDE UNLESS SPECIFIED ELSEWHERE EQUIPMENT WITH A MINIMUM IP RATING OF IP65 TO AS 60529.
- PROVIDE CABLE CORE COLOURS COMPLYING WITH AS/NZS 3000.
- MAKE GOOD TO ORIGINAL CONDITION OF EXISTING ROADS, PATHWAYS, PLANTS AND LANDSCAPING THAT ARE DISTURBED DURING INSTALLATION OF THE ELECTRICAL SYSTEM.

CABLE AND CONDUIT INSTALLATION NOTES:

- DO NOT BEND THE CABLES IN A MANNER THAT WILL CAUSE DAMAGE OR STRESS TO THE SHEATHING OR INSULATION.
- DO NOT BEND THE CABLES WITH ANY RADIUS WHICH IS SMALLER THAN THE MANUFACTURERS SPECIFICATIONS OR NOT LESS THAN 12 TIMES THE DIAMETER OF THE CABLE.
- DO NOT OVER BEND CONDUIT WHERE INTERNAL DIAMETER COULD COLLAPSE OR CAUSE DAMAGE TO CABLES INTERNALLY.
- USE JUNCTION BOXES (ANGLE, TEE, CROSS ETC) FOR CONDUIT INSTALLATION WHEREVER NECESSARY.
- COMPLY WITH AS/NZS 3000 WHERE WIRING SYSTEMS ARE REQUIRED TO CHANGE DIRECTION.
- UNLESS OTHERWISE SPECIFIED, INSTALL THE UNDERGROUND WIRING RETICULATION SYSTEM IN COMPLIANCE WITH CITY OF GOLD COAST COUNCIL'S STANDARD TRENCHNG DETAILS DRAWING GCSD-ELE-02-001. CONDUIT TO BE INSTALLED AT 1000mm DEPTH.
- DIG UNDER TELSTRA CONDUITS AND OVER SEWER PIPES WHERE APPLICABLE.
- TUNNEL BORE UNDER OR OVER THE TOP WITH 100mm. MIN. CONCRETE BLINDING LAYER WHERE CONDUITS CLASH WITH STORM WATER PIPES. TUNNEL BORE WHERE CONDUITS CROSS ROAD.
- TUNNEL BORE CONDUIT WHERE REQUIRED.
- DO NOT JOIN OR TEE BETWEEN TERMINALS FOR ANY FINAL CIRCUIT.



Infrastructure Gold Coast Engineering, Design and Standards

General Manager Engineering, Design and Standards
(Chief Engineer)
J. WAGNER

Certified Engineered Document Reference
A121687627

Drafted
K. TAMURA
Designed
K. TAMURA
Design & Drafting Checked
S. HART

Project Identifier/CAD File Name
QuotaPrk.010.33423\A-ELEC

Records File Number
PN13586/46/10

Engineered
I. QUAH
Certified
C. FIGUEROA RPEQ 06428
Authorised
A. JAFARI

Survey Folder Number
D7478

1	ISSUED FOR CONSTRUCTION	C. FIGUEROA	CF	24/06/26					
Issue	Description ✱	Name	Initial	Date					
Design not to be amended without authorisation by Statutory Certifier									

Bar Scales

NOT TO SCALE

Do not scale, use figured dimensions only

MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY

ELECTRICAL
NOTES AND LEGEND

Project Number

33423

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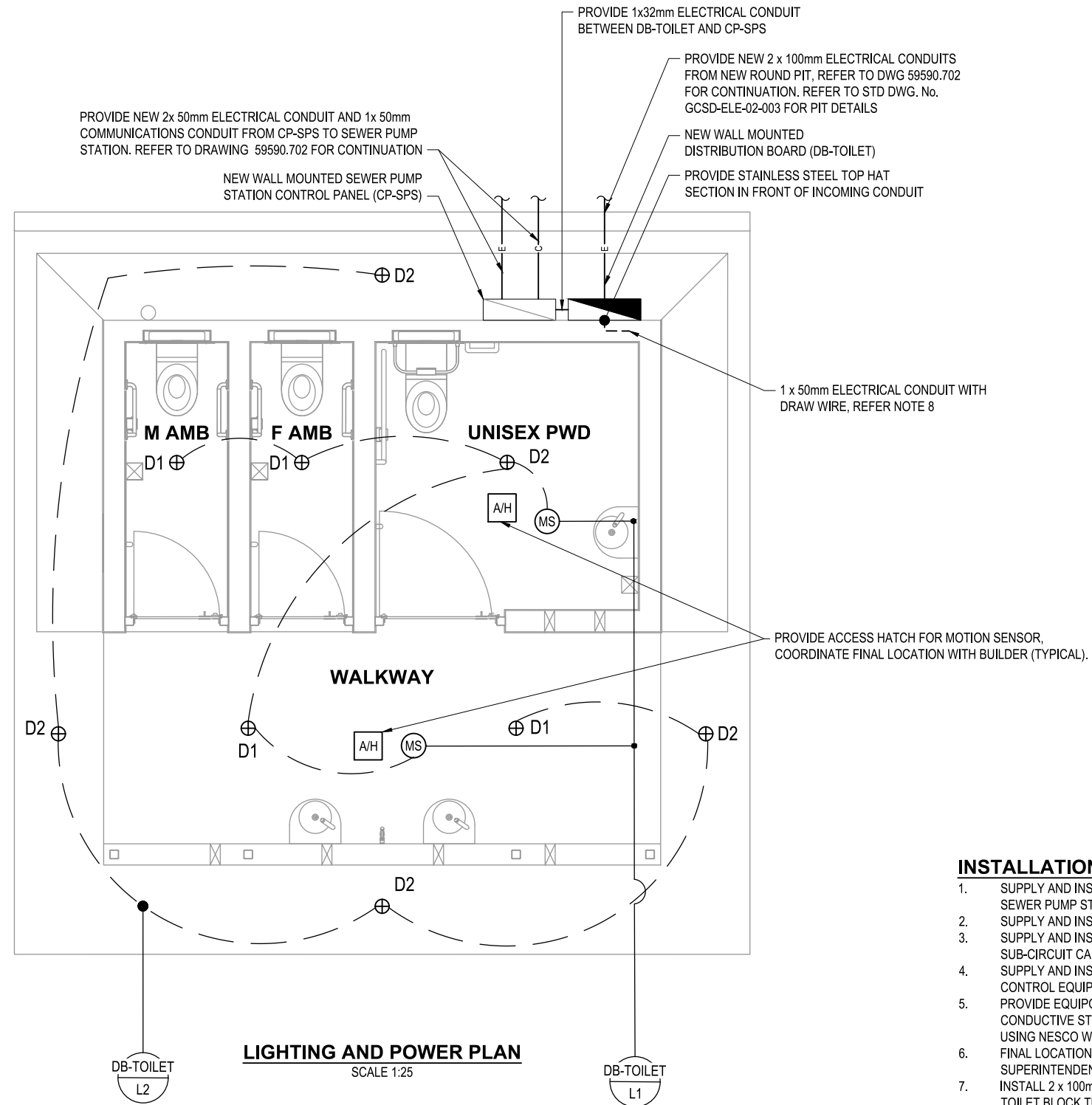
Issue

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Drawing Number

59590.701

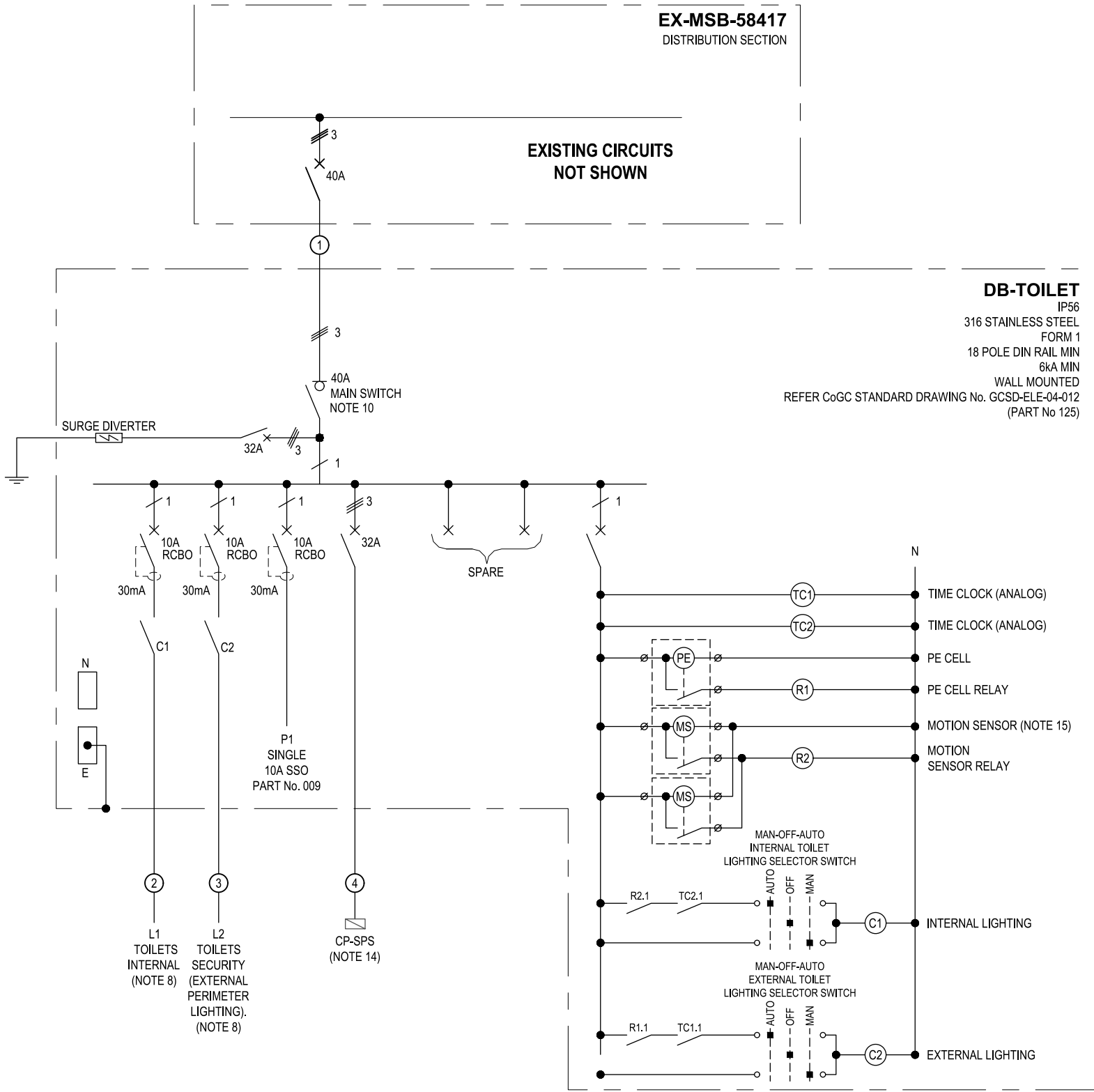
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1. SUPPLY AND INSTALL NEW TOILET BLOCK DISTRIBUTION BOARD (DB) AND NEW SEWER PUMP STATION CONTROL PANEL.
2. SUPPLY AND INSTALL NEW TOILET BLOCK FINAL SUB-CIRCUIT CABLING.
3. SUPPLY AND INSTALL NEW SEWER PUMP STATION CONTROL PANEL FINAL SUB-CIRCUIT CABLING AND CONTROL CABLING.
4. SUPPLY AND INSTALL NEW TOILET BLOCK LIGHTING, AND ASSOCIATED CONTROL EQUIPMENT.
5. PROVIDE EQUIPOTENTIAL BOND TO CONCRETE REINFORCEMENT, CONDUCTIVE STRUCTURAL EQUIPMENT AND CONDUCTIVE WATER PIPING USING NESCO WACON EQUIPOTENTIAL CONDUCTOR OR EQUIVALENT.
6. FINAL LOCATION OF DISTRIBUTION BOARD TO BE CONFIRMED WITH COGC SUPERINTENDENT REPRESENTATIVE.
7. INSTALL 2 x 100mm ELECTRICAL CONDUITS FROM NEW ROUND PIT TO NEW TOILET BLOCK TURN UP LOCATION (SHOWN INDICATIVELY, FINAL ROUTE TO BE CONFIRMED ON SITE). CO-ORDINATE CONDUIT TURN UP LOCATION TO NEW TOILET BLOCK WITH COGC SUPERINTENDENT REPRESENTATIVE. SUPPLY AND INSTALL MECHANICAL PROTECTION OVER SURFACE MOUNTED CONDUIT BELOW 2m AFFL.
8. ELECTRICAL CONDUIT WITH DRAW WIRE, TURN CONDUIT UP AND INTO CEILING VOID USING LONG RADIUS SWEEP BENDS, REFER STRUCTURAL DWG No. 59590.507. CONDUIT TO BE AS CLOSE TO SHS AS POSSIBLE. INSTALL A POLISHED 316 STAINLESS STEEL TOP HAT TO MATCH SHS.
9. ALL EQUIPMENT INCLUDING CABLE TRAY, HAT SECTIONS, SADDLES AND FIXINGS SHALL BE MINIMUM 316 STAINLESS STEEL.

<div>CITY OF GOLDCOAST™</div>	Infrastructure Gold Coast Engineering, Design and Standards		Drafted K. TAMURA	Engineered I. QUAH							<div>Bar Scales</div> <div><div><div>0</div><div>0.5</div><div>1</div><div>1.5m</div></div></div> <div>SCALE 1:25 @ A1</div>	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY		Project Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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DISTRIBUTION BOARD (DB-TOILET) SINGLE LINE DIAGRAM

GENERAL NOTES:

- ALL CIRCUIT BREAKERS TO HAVE 'TYPE C' TRIPPING CURVE.
- CONFIGURE THE SWITCHBOARD TO COMPLY WITH AS/NZS 3000, AS/NZS 61439 AND THE QLD ELECTRICAL SAFETY ACT.
- LABEL ALL CONTROL TERMINALS AND CABLES. CONTROL TERMINALS TO BE DIN RAIL MOUNTED 'WAGO' SIDE ENTRY CLAMP TERMINALS FOR CONDUCTOR SIZES 0.8mm² TO 4mm².
- FULLY INSULATE ALL CABLING, BUSBARS, TERMINALS AND JOINTS.
- PROVIDE LABELLING TO AS/NZS 3000 AND OTHER RELEVANT STANDARDS.
- LOCATE PE CELL UNDER SWITCHBOARD OR TO THE DIRECTION OF CoGC SUPERINTENDENT REPRESENTATIVE.
- MAINS TO BE SIZED TO FINAL CIRCUIT PROTECTION AT SWITCHBOARD. ALLOW FOR OVERALL VOLT DROP ALLOWANCE IN ACCORDANCE WITH AS/NZS 3000 AND AS/NZS 3008 REQUIREMENTS.
- FINAL TIME SCHEDULES TO BE CONFIRMED WITH THE CoGC SUPERINTENDENT REPRESENTATIVE.
- ADDITIONAL FINAL SUB-CIRCUITS AND OTHER SWITCHBOARD EQUIPMENT MAY BE REQUIRED FOR THE INSTALLATION THAT IS NOT INDICATED ON THIS DRAWING SET AND SHOULD BE CONFIRMED WITH THE CoGC SUPERINTENDENT REPRESENTATIVE.
- MAIN SWITCH TO BE SIZED IN ACCORDANCE WITH AS/NZS 3000 AND TO CO-ORDINATE WITH THE SERVICE FUSE/CIRCUIT BREAKER.
- SWITCHBOARD DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CoGC STANDARD DRAWINGS AND TECHNICAL SPECIFICATIONS. LIAISE WITH CoGC SUPERINTENDENT REPRESENTATIVE FOR CURRENT REVISIONS.
- REFER TO DRAWING No. 59590.701 FOR NOTES AND LEGEND.
- REFER TO DRAWING No. 59590.705 FOR PARTS LIST.
- SEWER PUMP STATION CONTROL PANEL SHALL BE DESIGNED AND CONSTRUCTED BY THE AWARDED CONTRACTOR, OR ALTERNATIVELY BY A SUBCONTRACTOR ENGAGED AND MANAGED BY THE AWARDED CONTRACTOR.
- REFER TO PLAN FOR QUANTITY AND LOCATION OF MOTION SENSORS CONNECTED.

CABLE SCHEDULE

NOTE: ALL FINAL CABLE SIZES SHALL BE SELECTED BY THE ELECTRICAL CONTRACTOR UNDER LATEST PUBLICATION OF AS/NZS 3000 AND AS/NZS 3008 PRIOR TO ORDERING. CABLE LENGTHS SHALL BE MEASURED ONSITE FOR FINAL CALCULATION AND INSTALLATION METHODS SHALL BE CONSIDERED FOR ANY ADDITIONAL CABLE DERATINGS REQUIRED. LENGTHS SHOWN BELOW ARE APPROXIMATE ONLY.

NO.	PHASE	CABLE DETAILS	LENGTH APPROX (m)	INSTALLATION METHOD	COMMENTS
①	1	1x4Cx25mm² XLPE / PVC / CU + E, CIRC	65	UNDERGROUND CONDUIT	
②	1	1x2Cx2.5mm² PVC / PVC / CU + E, TPS	20	CONDUIT	SECURED WITHIN STRUCTURE
③	1	1x2Cx2.5mm² PVC / PVC / CU + E, TPS	20	CONDUIT	SECURED WITHIN STRUCTURE
④	1	1x4Cx6mm² PVC / PVC / CU + E, TPS	1	CONDUIT	BETWEEN ENCLOSURES

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			Designed K. TAMURA	Certified C. FIGUEROA RPEQ 06428									Sheet of 4 8	Issue 1
			Design & Drafting Checked S. HART	Authorised A. JAFARI									Drawing Number 59590.704	
			Project Identifier/CAD File Name QuotaPrk.010.33423\A-ELEC											
	General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineered Document Reference A121687627	Records File Number PN13586/46/10	Survey Folder Number D7478	1	ISSUED FOR CONSTRUCTION	C. FIGUEROA	CF	24/06/26					
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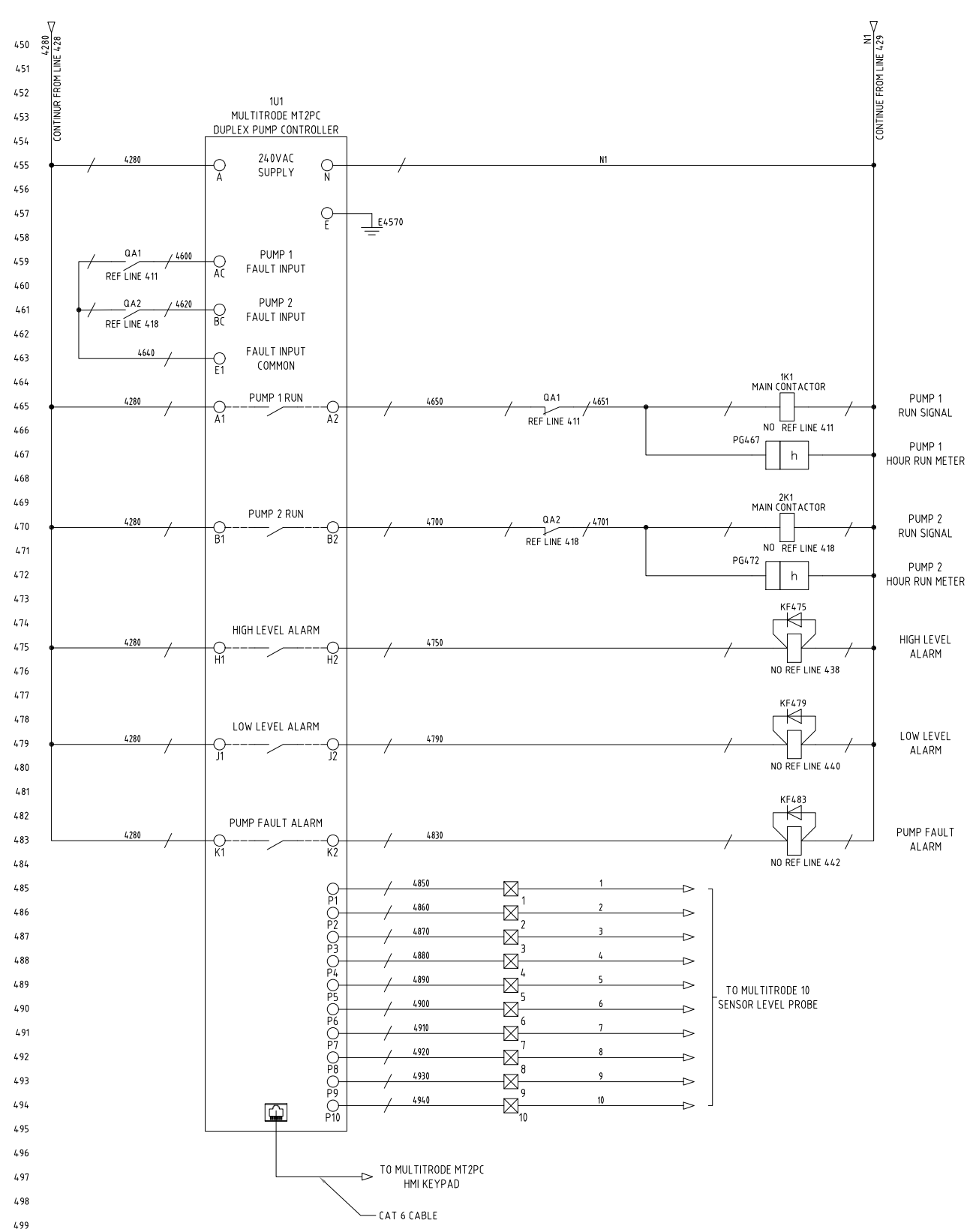
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PARTS LIST			
PART	DESCRIPTION, SHORT	DESCRIPTION, DETAILED	ITEM (OR EQUAL)
001	PE CELL, EXTERNAL	PE CELL, EXTERNAL AWAY FROM DB	HPM, PE170/10
002	PE CELL, SWITCHBOARD	PE CELL, ON SWITCHBOARD	ROYCE THOMPSON, MICROSTAR 2000
003	CIRCUIT BREAKERS	CIRCUIT BREAKERS, 6-10 KA, DIN RAIL MOUNTED	HAGER, NHP TERASAKI DIN T, NHP MOD-6
004	RCBO	RCBO, 6-10 KA,	HAGER, NHP TERASAKI DIN T, NHP MOD-6
005	RCBO HIGH LEAKAGE AREAS	RCBO HIGH LEAKAGE AREAS, BBQS, POWER HEADS, EVENT NODES, ETC	CLIPSAL, 4RCBE2 RANGE
006	TIME CLOCK	TIME CLOCK, 1-CHANNEL, ANALOGUE	HAGER, EHN011
007	RELAY-CONTACTOR	RELAY-CONTACTOR, 25A, 2 POLE	HAGER, ESC225
008	MOVEMENT SENSOR	BEG RADAR OCCUPANCY SENSOR	BEG HF-MD1 PART 94401
009	OUTLET DIN RAIL	SHUTTERED SOCKET OUTLET, 15A, DOUBLE POLE, DIN RAIL MOUNTED	HAGER, SNO15DA
010	RELAY	RELAY, 1 POLE	HAGER, EPN510
100	PIT CIRCULAR	PIT CIRCULAR	TRI UNDERGROUND AUSTRALIA, TRITCP
101	PIT CIRCULAR, PLASTIC COLLAR	PIT CIRCULAR, PLASTIC COLLAR EXTENSION WITH NUTS AND BOLTS	TRI UNDERGROUND AUSTRALIA, TRITUFFCCC
102	PIT CIRCULAR, CAST IRON COLLAR	PIT CIRCULAR, CAST IRON COLLAR WITH NUTS AND BOLTS	TRI UNDERGROUND AUSTRALIA, TRIPCPMREC
103	PIT CIRCULAR, LID COMMUNICATIONS	PIT CIRCULAR, LID COMMUNICATIONS	TRI UNDERGROUND AUSTRALIA, TRITUFFCLC
104	PIT CIRCULAR, LID ELECTRICAL	PIT CIRCULAR, LID ELECTRICAL	TRI UNDERGROUND AUSTRALIA, TRITUFFCLE
105	PIT CIRCULAR, STEEL LID COMBO	PIT CIRCULAR WITH STEEL LID & CAST IRON COLLAR ELECTRICAL	TRI UNDERGROUND AUSTRALIA, TRIPCPMRP&LE
106	PIT CIRCULAR, PLASTIC LID COMBO	PIT CIRCULAR WITH PLASTIC LID & CAST IRON COLLAR ELECTRICAL	TRI UNDERGROUND AUSTRALIA, TRITUFFCPCILE
107	PIT CIRCULAR, CONCRETE SURROUND	PIT CIRCULAR, CONCRETE SURROUND	TRI UNDERGROUND AUSTRALIA, TRITUFFCONCS
110	EARTH PIT	INSPECTION HOUSING, HIGH IMPACT POLYPROPYLENE	ERICO, PIT03 (710180)
120	POST, SWITCHBOARD, 1.0m, TOP MOUNT	POST, SWITCHBOARD, 1.0m, TOP MOUNT, GALVANISED	GM POLES - GCCC-SWB-POLE-GA
121	MAIN SWITCHBOARD - TOP MOUNT	MAIN SWITCHBOARD, TOP MOUNTED, 1 PHASE	DART SWITCHBOARDS, MSB - 1 PHASE, TOP MOUNTED
122	MAIN SWITCHBOARD - TOP MOUNT	MAIN SWITCHBOARD, TOP MOUNTED, 3 PHASE	DART SWITCHBOARDS, MSB - 3 PHASE, TOP MOUNTED
123	MAIN SWITCHBOARD - WALL MOUNT	MAIN SWITCHBOARD, WALL MOUNTED, 1 PHASE (METER)	DART SWITCHBOARDS, MSB - 1 PHASE, WALL MOUNTED
124	MAIN SWITCHBOARD - WALL MOUNT	MAIN SWITCHBOARD, WALL MOUNTED, 3 PHASE (METER)	DART SWITCHBOARDS, MSB - 3 PHASE. WALL MOUNTED
125	DISTRIBUTION SWITCHBOARD - WALL MOUNT	DISTRIBUTION SWITCH BOARD, 3 PHASE (NO METER)	DART SWITCHBOARDS, 3 PHASE, DB-WALL MOUNTED (NO METER)

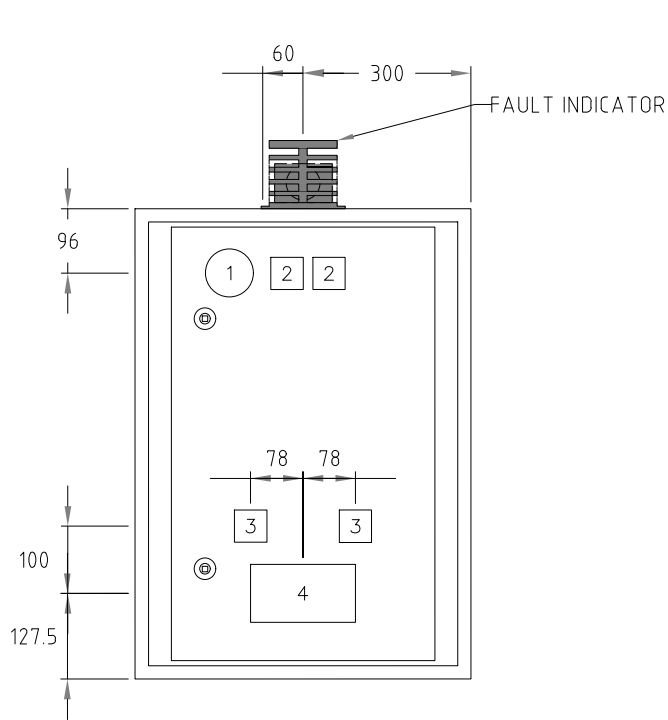
PIT SCHEDULE - LABEL REQUIRED						
STATION NO.	PIT NUMBER	DESCRIPTION	COGC ASSET ID	REMARKS	SET OUT	
					EASTING	NORTHING
1	EPIT-1	TRI UNDERGROUND T60 CIRCULAR PIT	PT-00001033	-	83933.8326	65962.7565

EQUIPMENT SCHEDULE - LABEL REQUIRED				
STATION NO.	EQUIPMENT NO.	DESCRIPTION	COGC ASSET ID	REMARKS
3	DB-TOILET	WALL MOUNTED DISTRIBUTION BOARD	SB-00000231	-
3	CP-SPS	SEWER PUMP STATION CONTROL PANEL	SB-00000232	-

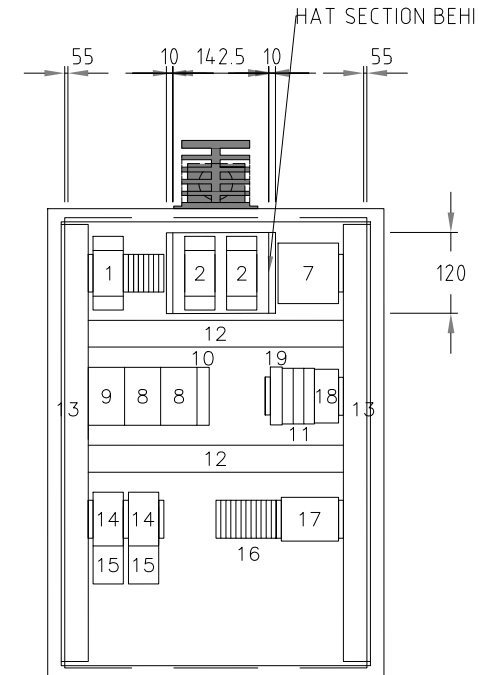
	Infrastructure Gold Coast Engineering, Design and Standards		Drafted K. TAMURA	Engineered I. QUAH					Bar Scales NOT TO SCALE	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY		Project Number 33423			
			Designed K. TAMURA	Certified C. FIGUEROA RPEQ 06428								Sheet of 5 8	Issue 1		
			Design & Drafting Checked S. HART	Authorised A. JAFARI								Drawing Number 59590.705			
	General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineered Document Reference A121687627	Project Identifier\^CAD File Name QuotaPrk.010.33423\^ELEC												
	* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION			Records File Number PN13586/46/10	Survey Folder Number D7478	1	ISSUED FOR CONSTRUCTION	C. FIGUEROA						CF	24/06/26
						Issue	Description *	Name	Initial	Date					
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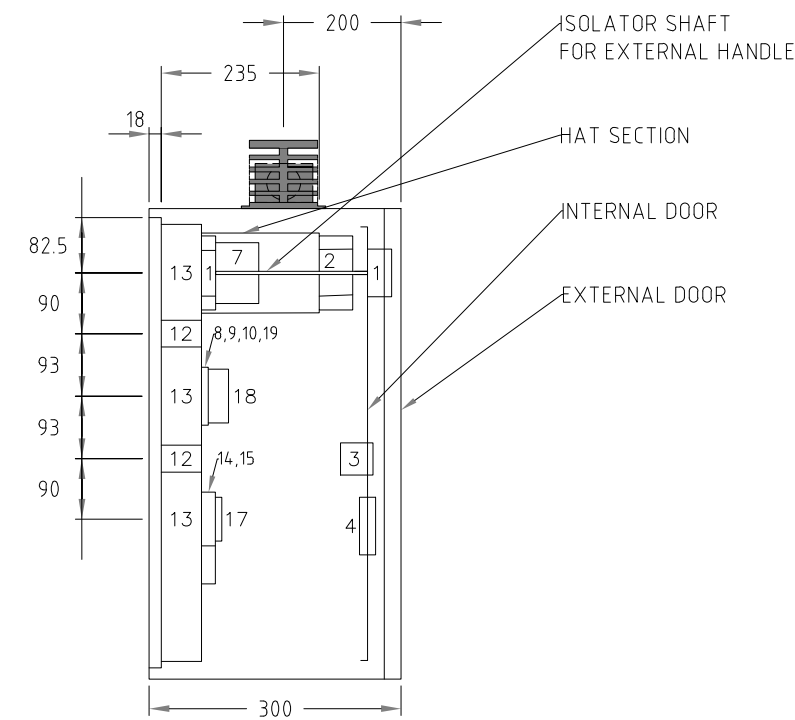
	Infrastructure Gold Coast Engineering, Design and Standards		Drafted K. TAMURA	Engineered I. QUAH					Bar Scales NOT TO SCALE	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY ELECTRICAL SEWER DUAL PUMP PANEL ELECTRICAL SCHEMATICS	Project Number 33423	
			Designed K. TAMURA	Certified C. FIGUEROA RPEQ 06428							Sheet of 7 8	Issue 1
			Design & Drafting Checked S. HART	Authorised A. JAFARI							Drawing Number 59590.707	
			Project Identifier+CAD File Name QuotaPrk.010.33423-IELEC									
	General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER	Certified Engineered Document Reference A121687627		1	ISSUED FOR CONSTRUCTION	C. FIGUEROA	CF	24/08/26				
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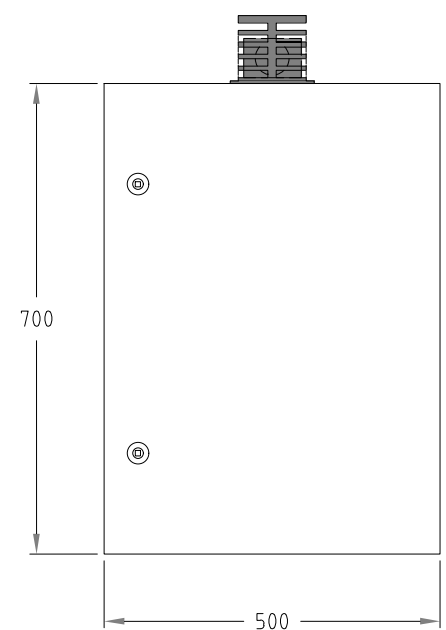
FRONT ELEVATION
FRONT DOOR REMOVED



FRONT ELEVATION
FRONT DOOR & ESCUTCHEON
REMOVED



L.H.S. SIDE ELEVATION



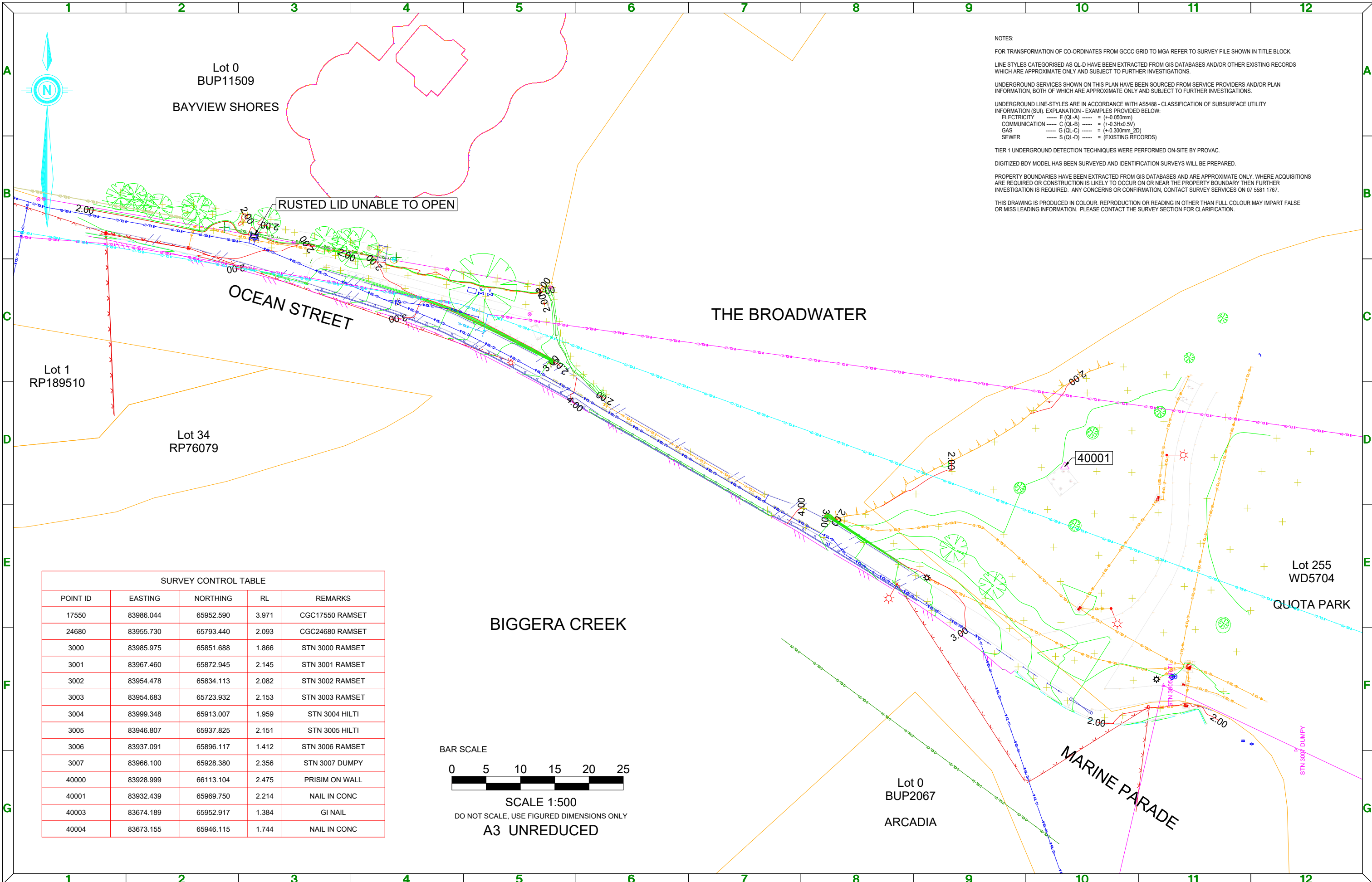
FRONT ELEVATION

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FINAL DRAWINGS FOR APPROVAL

SEWER DUAL PUMP PANEL EQUIPMENT LIST						
ITEM NO.	ITEM	QTY	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	PRODUCT MODEL NO.
1	MAIN ISOLATOR	1	45	68	81	SOCOMECSIRCO STANDARD LOAD BREAK SWITCH , 40A, P/N: SLBM403P
2	PUMP ISOLATOR	2	45	68	75	SOCOMECSIRCO STANDARD LOAD BREAK SWITCH, 25A, P/N: SLBM203PD
3	HOURLY RUN METER	2	48	48	40	NHP 48mm X 48MM, P/N: RQ480240VAC
4	MULTITRODE HMI	1	238	137	33	MULTITRODE MTDPC2 FRONT CONTROLLER
5	ENCLOSURE	1	500	700	300	ENCLOSURE, IP66, H700 X W500 X D300
6	INNER DOOR	1	500	700	10	INNER DOOR TO SUIT ENCLOSURE, H700 X W500
7	MULTITRODE CONTROLLER	1	90	90.5	145	MULTITRODE MTDPC2 CONTROLLER
8	PUMP CIRCUIT BREAKER	2	54	86	70	NHP 6kA, 20A, 3P, C CURVE MCB, P/N: DTCB6320C
9	PFR CIRCUIT BREAKER	1	54	86	70	NHP 6kA, 6A, 3P, C CURVE MCB, P/N: DTCB6306C
10	CONTROL CIRCUIT BREAKER	1	18	86	70	NHP 6kA, 6A, 1P, C CURVE MCB, P/N: DTCB6106C
11	CONTROL RELAYS	3	15.8	82.85	64.9	FINDER 40 SERIES RELAYS, 2 C/O, P/N: 46.52.005424VAC WITH 9702 BASE
12	CABLE DUCT	2	40	60		LENGTH = 380mm
13	CABLE DUCT	2	60	60		LENGTH = 550mm
14	MAIN CONTACTOR	2	45	80	80.5	S+S 4kW, 9A, 3 POLE AC CONTACTOR, P/N: CA7-9-10240VAC
15	THERMAL OVERLOAD RELAY	2	45	56.5	80.5	S+S 5.5-7.5A THERMAL OVERLOAD RELAY, P/N: CT7N-23-B75
16	TERMINALS	28	6	45	75.3	DIN RAIL TERMINALS
17	TRANSFORMER	1	85	65	90	40VA, 240VAC/24VAC STEPDOWN TRANSFORMER
18	PHASE FAILURE RELAY	1	35.5	80	100	CARLO GAVEZZI 3 PHASE SEQUENCE & PHASE LOSS MONITORING RELAYS, P/N: PPA01
19	24VAC CIRCUIT BREAKER	1	18	86	70	NHP 6kA, 2A, 1P, C CURVE MCB, P/N: DTCB6102C

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	Infrastructure Gold Coast Engineering, Design and Standards	Drafted K. TAMURA	Engineered I. QUAH					Bar Scales	NOT TO SCALE	MARINE PARADE, BIGGERA WATERS QUOTA PARK NEW AMENITIES FACILITY ELECTRICAL SEWER DUAL PUMP PANEL GENERAL LAYOUT	Project Number 33423		
		Designed K. TAMURA	Certified C. FIGUEROA RPEQ 06428								Sheet of 8 8	Issue 1	
		Design & Drafting Checked S. HART	Authorised A. JAFARI								Drawing Number 59590.708		
		General Manager Engineering, Design and Standards (Chief Engineer) J. WAGNER		Certified Engineering Document Reference A121687627		Project Identifier/CAD File Name QuotaPark.010.33423\A-ELEC							
		Records File Number PN13586/46/10		Survey Folder Number D7478		1 ISSUED FOR CONSTRUCTION					C. FIGUEROA CF 24/06/26		
* THIS DRAWING MUST BE READ AND USED IN CONJUNCTION WITH ALL OTHER PROJECT DOCUMENTATION										Design not to be amended without authorisation by Statutory Certifier		Do not scale, use figured dimensions only	



NOTES:

FOR TRANSFORMATION OF CO-ORDINATES FROM GCCC GRID TO MGA REFER TO SURVEY FILE SHOWN IN TITLE BLOCK.

LINE STYLES CATEGORISED AS QL-D HAVE BEEN EXTRACTED FROM GIS DATABASES AND/OR OTHER EXISTING RECORDS WHICH ARE APPROXIMATE ONLY AND SUBJECT TO FURTHER INVESTIGATIONS.

UNDERGROUND SERVICES SHOWN ON THIS PLAN HAVE BEEN SOURCED FROM SERVICE PROVIDERS AND/OR PLAN INFORMATION, BOTH OF WHICH ARE APPROXIMATE ONLY AND SUBJECT TO FURTHER INVESTIGATIONS.

UNDERGROUND LINE-STYLES ARE IN ACCORDANCE WITH AS5488 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI). EXPLANATION - EXAMPLES PROVIDED BELOW:

ELECTRICITY --- E (QL-A) --- = (+0.050mm)

COMMUNICATION --- C (QL-B) --- = (+0.31x0.51)

GAS --- G (QL-C) --- = (+0.300mm, 2D)

SEWER --- S (QL-D) --- = (EXISTING RECORDS)

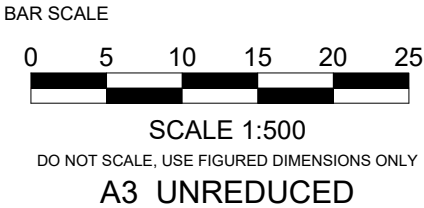
TIER 1 UNDERGROUND DETECTION TECHNIQUES WERE PERFORMED ON-SITE BY PROVAC.

DIGITIZED BDY MODEL HAS BEEN SURVEYED AND IDENTIFICATION SURVEYS WILL BE PREPARED.

PROPERTY BOUNDARIES HAVE BEEN EXTRACTED FROM GIS DATABASES AND ARE APPROXIMATE ONLY. WHERE ACQUISITIONS ARE REQUIRED OR CONSTRUCTION IS LIKELY TO OCCUR ON OR NEAR THE PROPERTY BOUNDARY THEN FURTHER INVESTIGATION IS REQUIRED. ANY CONCERNS OR CONFIRMATION, CONTACT SURVEY SERVICES ON 07 5581 1767.

THIS DRAWING IS PRODUCED IN COLOUR. REPRODUCTION OR READING IN OTHER THAN FULL COLOUR MAY IMPART FALSE OR MISS LEADING INFORMATION. PLEASE CONTACT THE SURVEY SECTION FOR CLARIFICATION.

SURVEY CONTROL TABLE				
POINT ID	EASTING	NORTHING	RL	REMARKS
17550	83986.044	65952.590	3.971	CGC17550 RAMSET
24680	83955.730	65793.440	2.093	CGC24680 RAMSET
3000	83985.975	65851.688	1.866	STN 3000 RAMSET
3001	83967.460	65872.945	2.145	STN 3001 RAMSET
3002	83954.478	65834.113	2.082	STN 3002 RAMSET
3003	83954.683	65723.932	2.153	STN 3003 RAMSET
3004	83999.348	65913.007	1.959	STN 3004 HILT
3005	83946.807	65937.825	2.151	STN 3005 HILT
3006	83937.091	65896.117	1.412	STN 3006 RAMSET
3007	83966.100	65928.380	2.356	STN 3007 DUMPY
40000	83928.999	66113.104	2.475	PRISIM ON WALL
40001	83932.439	65969.750	2.214	NAIL IN CONC
40003	83674.189	65952.917	1.384	GI NAIL
40004	83673.155	65946.115	1.744	NAIL IN CONC



Authoriser officer:
Name:

Signed:

Surveyor(s)
HP & LJ

Drawn By / Date
DA 18/04/2024

Project Requester / Phone Number
Matthew MONKMAN Ph.

Project Identifier-CAD File Name
24056-1

Records File Number
PN13586/483

Survey Commenced
25/03/2024

Survey Checked By / Date
GL 22/04/2024

Survey Folder Number / Project Identifier Number
D7478

Field Book Reference

External LG Contract Reference

Notes:

1 Original Revision and Released at A3

Revision Description Name Date

Survey not to be amended without authorisation by the Survey Executive Coordinator

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CITY OF
GOLDCOAST

PO BOX 5042, GOLD COAST MC 9729

MARINE PARADE
BIGGERA WATERS
DETAIL SURVEY

SCALE 1:500 @ A3

Horizontal Scale 1: 500
Horz datum: GC Grid 02
Vert datum: AHD Derived

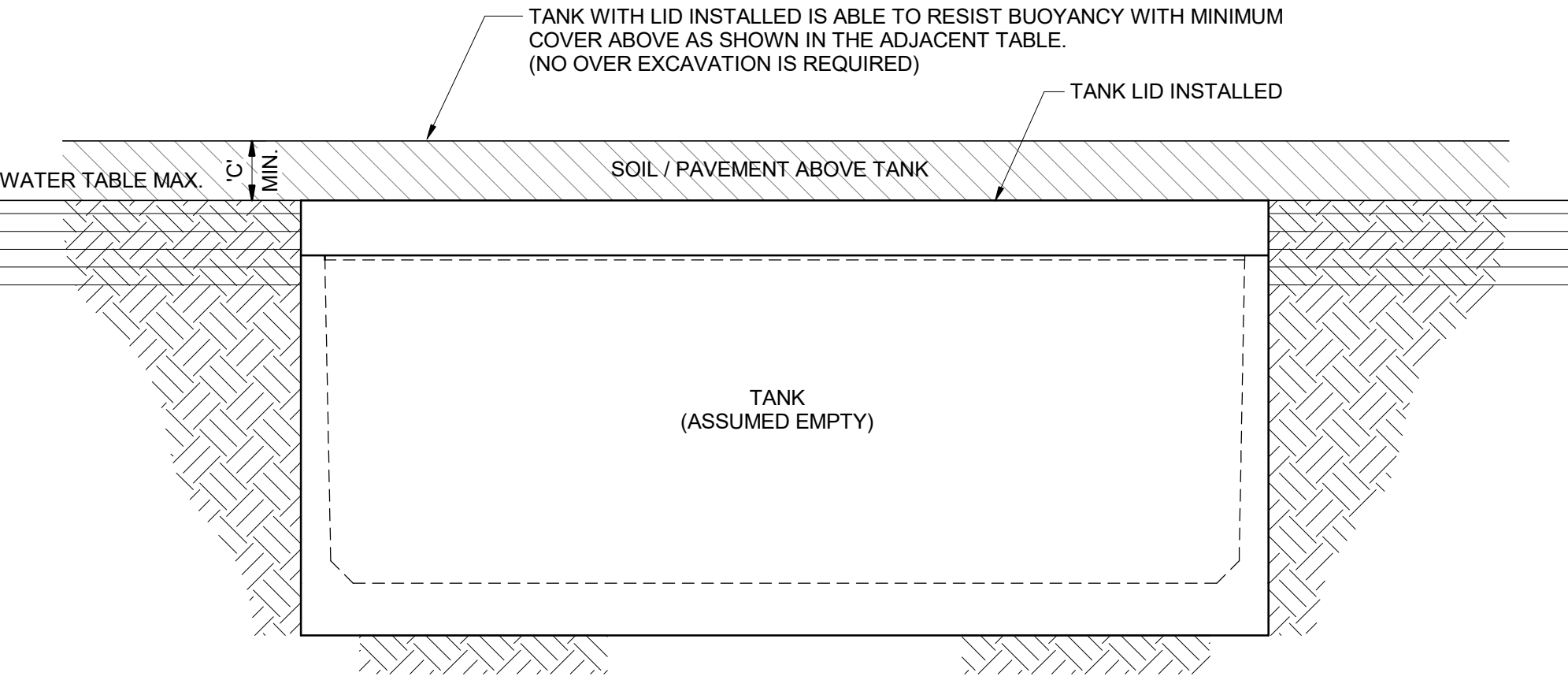
Project Number

Sheet 1 of 1

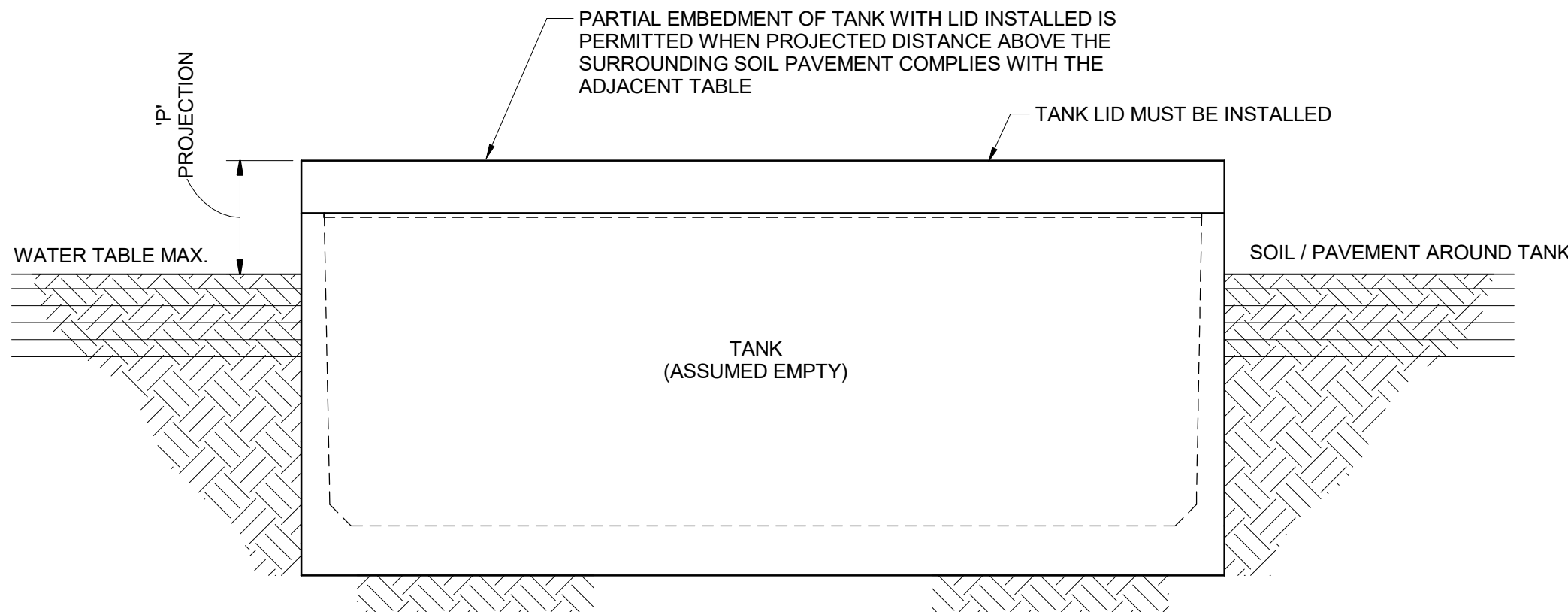
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24056-1.1

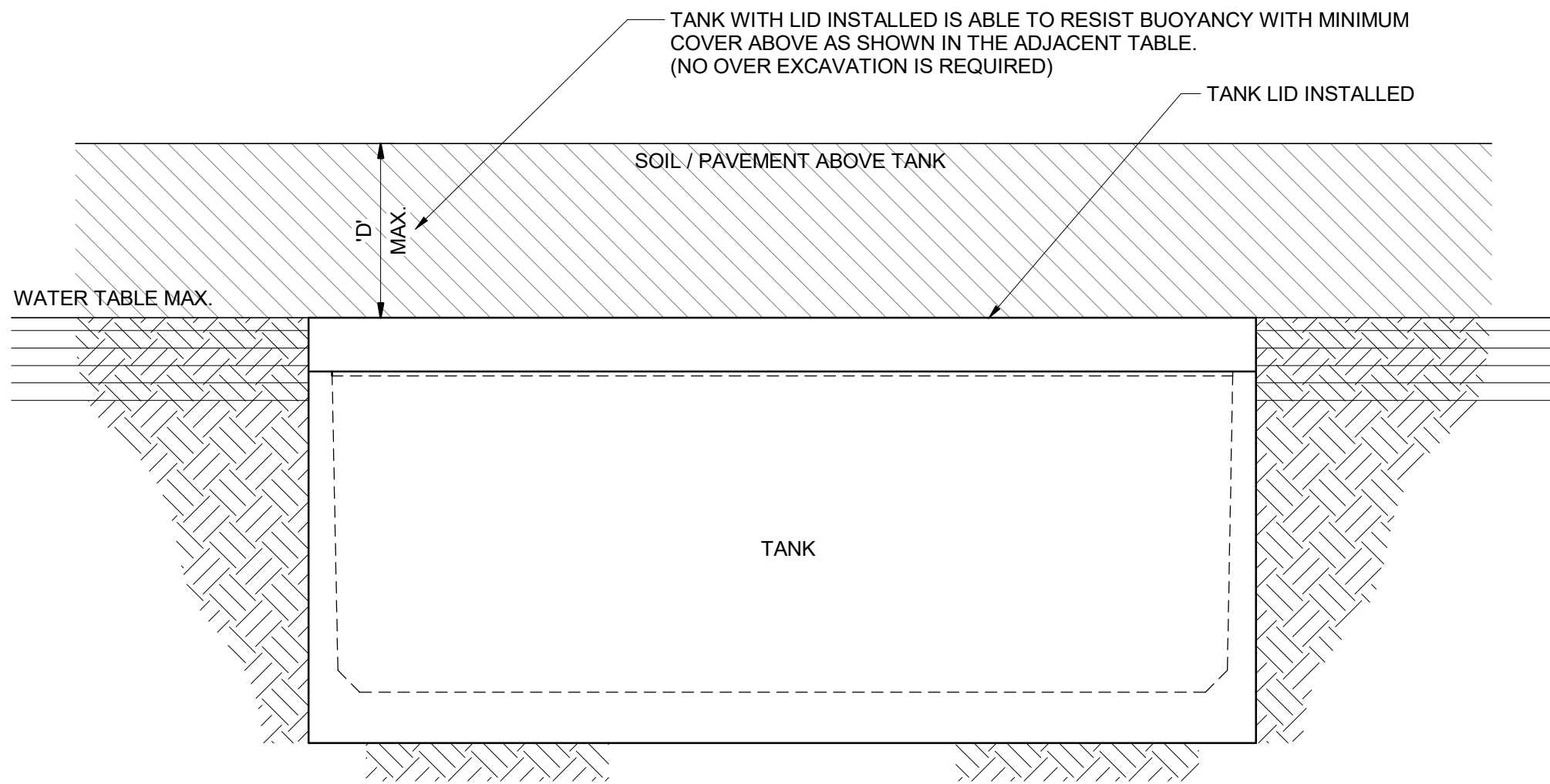
Revision



ANTI-FLOTATION REQUIREMENTS WHEN TANK IS FULLY BURIED



ANTI-FLOTATION REQUIREMENTS WHEN TANK IS PARTIALLY BURIED



MAXIMUM COVER ABOVE LID

MINIMUM COVER TO ACHIEVE ANTI-FLOTATION

TANK SIZE	'C' min. (mm)
3.0 kL ROUND - STANDARD TANK	0
1kL GREASE ARRESTOR	0
2kL GREASE ARRESTOR	0
5.0 kL ROUND	0
5.8 kL SQUARE - STANDARD TANK	370
3kL GREASE ARRESTOR	300
4kL GREASE ARRESTOR	275
5kL GREASE ARRESTOR	250
7.0 kL RECTANGULAR	220
10.0 kL ROUND - STANDARD TANK	0
6kL GREASE ARRESTOR	0
12.0 kL RECTANGULAR - STANDARD TANK	450
8.5kL TANK	300
9.5kL TANK	350
15.0 kL ROUND	0
8kL GREASE ARRESTOR	0
10kL GREASE ARRESTOR	0
20.0 kL ROUND	150
25.0 kL ROUND - STANDARD TANK	180
10kL GREASE ARRESTOR	150
16kL GREASE ARRESTOR	150

FLOTATION FACTOR OF SAFETY = 1.10
ASSUMED BULK DENSITY OF OVERBURDEN $\gamma = 18 \text{ kN/m}^3$.
REFER TO ON-SITE GEOTECHNICAL ADVICE AS TO WHETHER WATER TABLE IS PRESENT AND ANTI-FLOTATION CHECKS ARE REQUIRED.

MINIMUM PROJECTION TO ACHIEVE ANTI-FLOTATION

TANK SIZE	'P' min. (mm)
3.0 kL ROUND - (2kL GREASE ARRESTOR)	0
5.0 kL ROUND	0
5.8 kL SQUARE - (3,4,5kL GREASE ARRESTORS)	350
7.0 kL RECTANGULAR	100
10.0 kL ROUND - (6kL GREASE ARRESTOR)	0
12.0 kL RECTANGULAR - STANDARD TANK	750
8.5kL TANK	480
9.5kL TANK	550
15.0 kL ROUND - (8, 10kL GREASE ARRESTORS)	100
20.0 kL ROUND	550
25.0 kL ROUND - (10, 16kL GREASE ARRESTORS)	900

WHEN 'P' = 0, TANK CAN BE PARTIALLY BURIED TO ANY DEPTH AS THE BUOYANCY FORCE NEVER OVERCOMES THE TANK SELF WEIGHT WITH A FACTOR OF SAFETY OF 1.10.
REFER TO ON-SITE GEOTECHNICAL ADVICE AS TO WHETHER WATER TABLE IS PRESENT AND ANTI-FLOTATION CHECKS ARE REQUIRED.

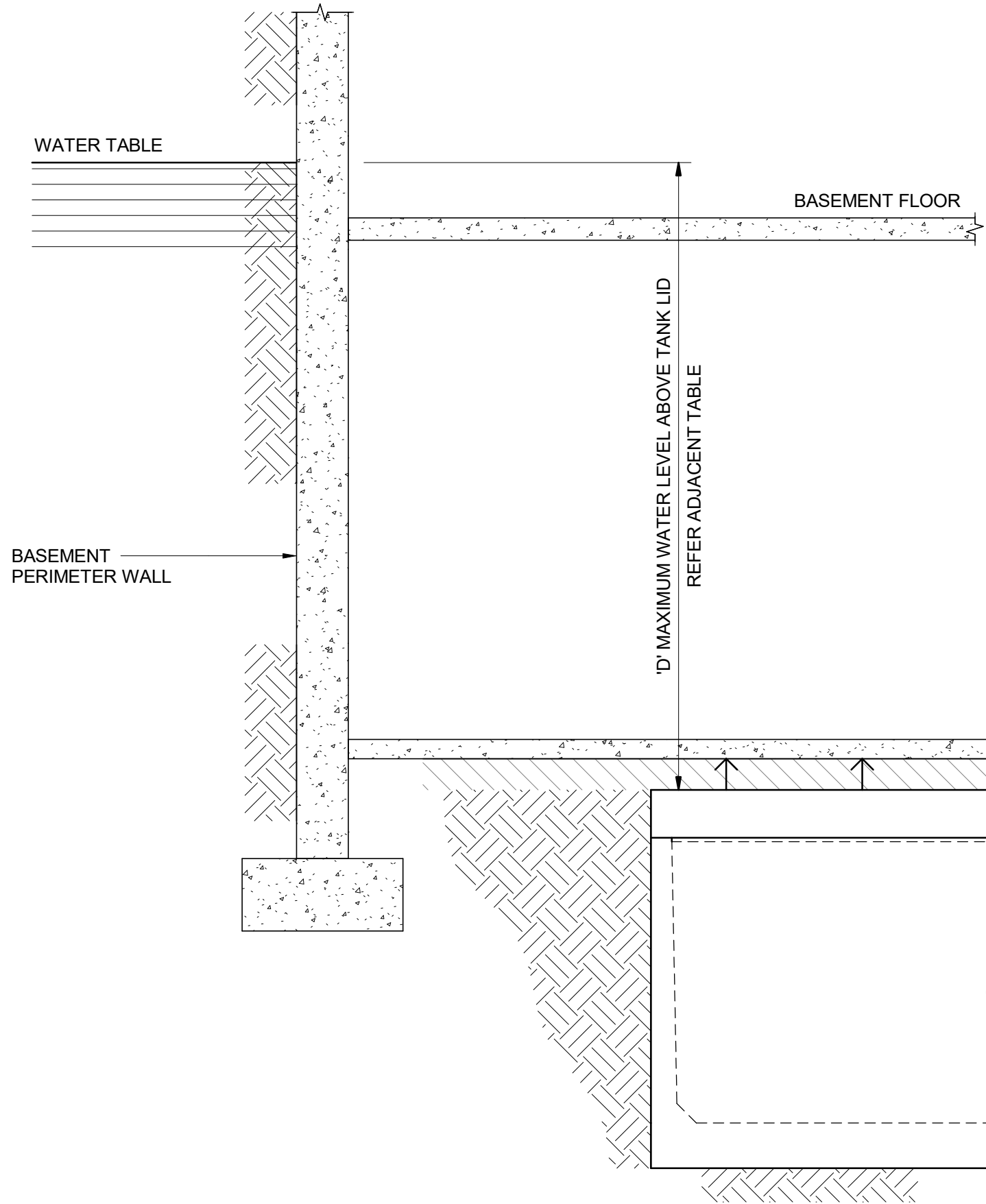
MAXIMUM DEPTH OF FILL/PAVEMENT ABOVE TANK LID

TANK SIZE	'D' max. (mm)
3.0 kL ROUND - (2kL GREASE ARRESTOR)	3000
5.0 kL ROUND	2000
5.8 kL SQUARE - (3,4,5kL GREASE ARRESTORS)	2000
7.0 kL RECTANGULAR	2000
10.0 kL ROUND - (6kL GREASE ARRESTOR)	2000
12.0 kL RECTANGULAR - STANDARD TANK	2000
8.5kL TANK	2000
9.5kL TANK	2000
15.0 kL ROUND - (8, 10kL GREASE ARRESTORS)	2000
20.0 kL ROUND	2000
25.0 kL ROUND - (10, 16kL GREASE ARRESTORS)	2000

MAXIMUM DEPTH OF COVER ABOVE TANK HAS BEEN ASSESSED FOR ALL DESIGN VEHICLE TYPES LISTED ON DRAWING 1355-G-EN-03. REFER NOTES ON THIS DRAWING FOR INFORMATION RELATED TO BRIDGE CODE STYLE LOADING (eg. SM1600 LOADS).

GREATER DEPTHS OF COVER ABOVE LIDS MAY BE ACHIEVED WITH RESTRICTIONS TO VEHICULAR TRAFFIC OR ALTERNATIVE LID DESIGNS - REFER ENGINEER.

ASSUMED BULK DENSITY OF OVERBURDEN $\gamma = 18 \text{ kN/m}^3$.



BASEMENT HYDROSTATIC LOADING REQUIREMENTS

SCALE 1 : 20

- NOTES:
- MAXIMUM DEPTH OF WATER TABLE ABOVE TANK LID IS LIMITED BY THE DESIGN OF THE TANK BASE IN MOST CASES.
 - UPLIFT PRESSURES APPLIED TO UNDERSIDE OF BASEMENT SLABS (P) ARE INCLUSIVE OF EXTERNAL ANTI-FLOTATION EXTENSIONS TO BASE SLABS (WHERE APPLICABLE) AND TANK SELF WEIGHT ONLY.

TANK SIZE	'D' (m)	'P' (kPa)
3.0 kL ROUND - (2kL GREASE ARRESTOR)	9.0	87.8
5.0 kL ROUND	8.0	72.7
5.8 kL SQUARE - (3,4,5kL GREASE ARRESTORS)	5.0	54.4
7.0 kL RECTANGULAR	7.0	61.5
10.0 kL ROUND - (6kL GREASE ARRESTOR)	7.0	65.3
12.0 kL RECTANGULAR	5.0	55.4
8.5kL TANK	5.0	55.4
9.5kL TANK	5.0	55.4
15.0 kL ROUND - (8, 10kL GREASE ARRESTORS)	7.0	76.4
20.0 kL ROUND	6.0	71.3
25.0 kL ROUND - (10, 16kL GREASE ARRESTORS)	5.0	65.7

'P' - ADDITIONAL UPLIFT PRESSURE FOR DESIGN OF BASEMENT SLAB, APPLIED ACROSS THE FULL LID AREA OF EACH TANK FOR THE DEPTH 'D'. (UNFACTORED, REFER TABLE)

0.3	ISSUED FOR CONSTRUCTION	DTA	03/02/20
0.2	FOR REVIEW	DTA	04/11/19
0.1	PRELIMINARY ISSUE	DTA	10/10/19
Issue	Description	Issued By	Date

H Scale 1 : 20
V Scale 1 : 20
@A1

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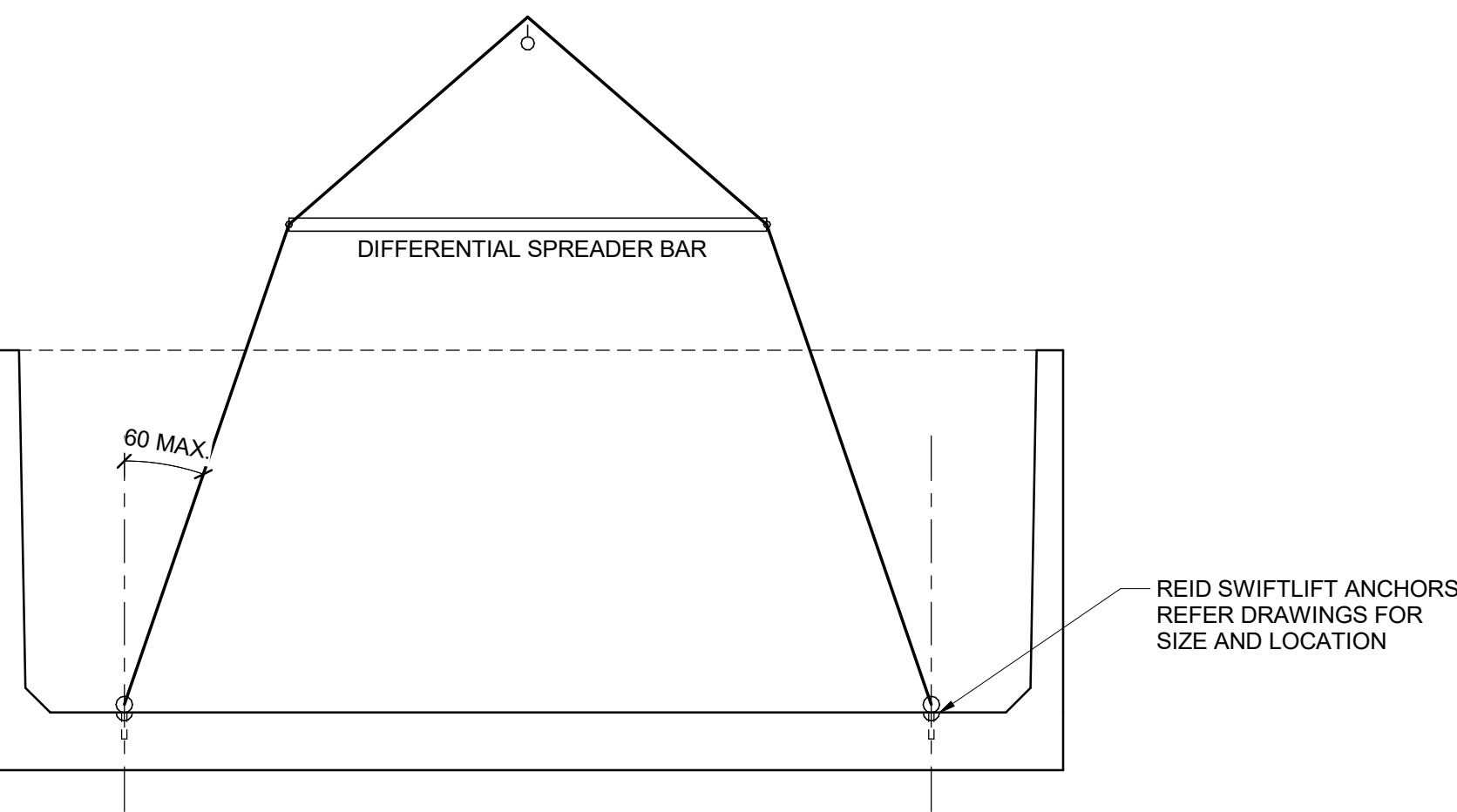
AustralianTanks
1300-A-TANKS
Water and Waste Water Specialists

Model
TANK INSTALLATION NOTES &
SPECIFICATIONS

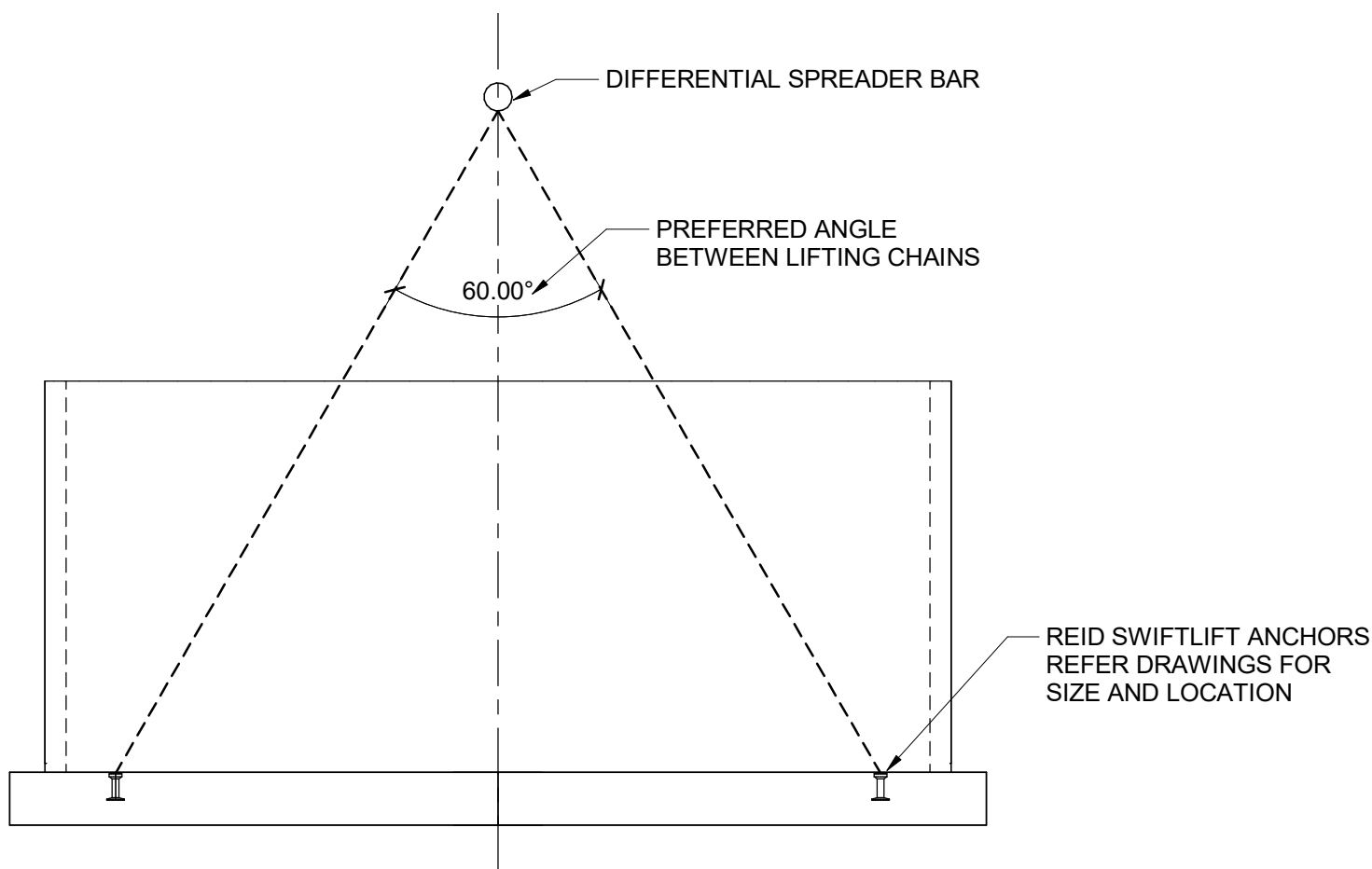
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Checked:	DTA		
RPEQ:	Dean Anderson (RPEQ 21536)		
Drawing Title:			
BOUYANCY & COVER HEIGHTS		Drawing Number:	1355-G-EN-01
		Rev:	0.3

LIFTING NOTES

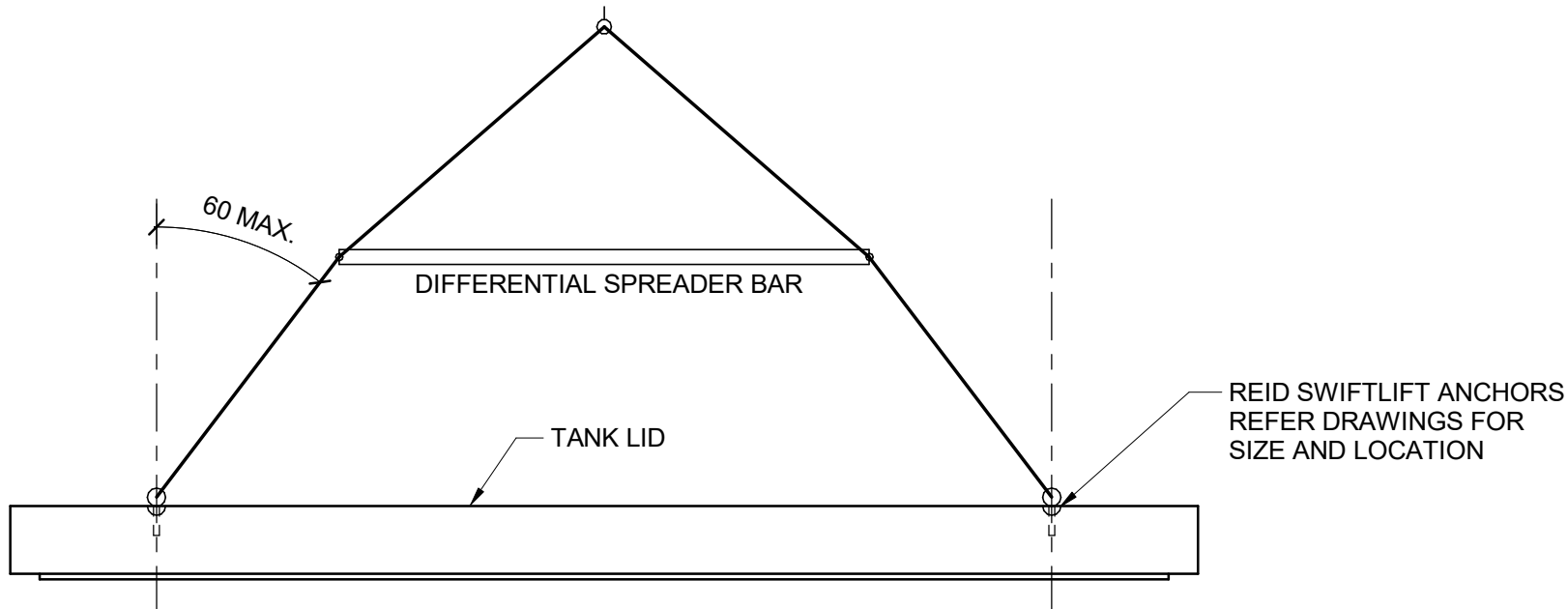
1. INSTALLATION OF CAST-IN ANCHORS AND LIFTING PROCEDURES TO BE IN ACCORDANCE WITH "PSA FOOT AND EYE ANCHORS" SPECIFICATIONS AND CERTIFICATION FOR MULTIPLE LIFTS. ANCHORS AND SURROUNDING CONCRETE SHOULD BE INSPECTED PRIOR TO EACH USE. DAMAGED ANCHORS SHALL NOT BE USED (CONTACT MANUFACTURER FOR ADVICE IF REQUIRED).
2. CONCRETE STRENGTH OF PRECAST ELEMENTS TO BE F'C = 30MPa MINIMUM AT TIME OF LIFTING.
3. ALL LIFTING MUST BE CARRIED OUT USING A CRANE AT NORMAL HOIST SPEEDS WITH A MAXIMUM SLING ANGLE OF 60 DEGREES. TANKS MAY BE CARRIED BY SLOW MOVING MOBILE CRANES OVER LEVEL TERRAIN.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES ON 1355-G-EN-04.
5. ENSURE THAT ALL LIFTING INSERTS ARE INSTALLED IN THE CORRECT POSITION PRIOR TO LIFTING.
6. DAMAGED LIFTING ANCHORS TO BE IMMEDIATELY GROUTED OVER TO PREVENT FURTHER USE.
7. ENSURE ALL REINFORCEMENT BARS ARE INSTALLED AS PER THE MANUFACTURER'S REQUIREMENTS TO EYE ANCHORS.
8. THE FOLLOWING NOTES ARE A GUIDE ONLY. LIFTING PROCEDURES TO BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORKS.



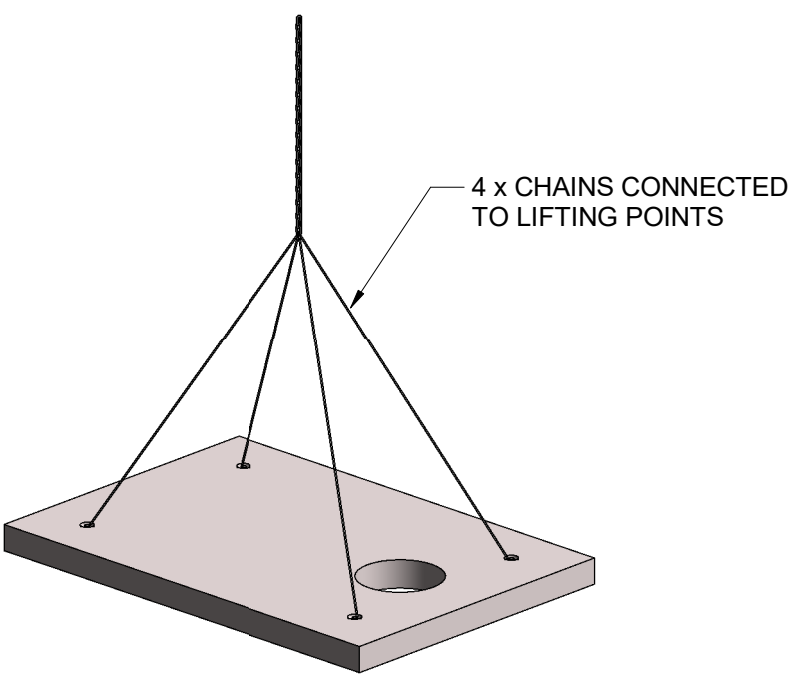
RECTANGULAR TANK - INTERNAL LIFTING POINTS



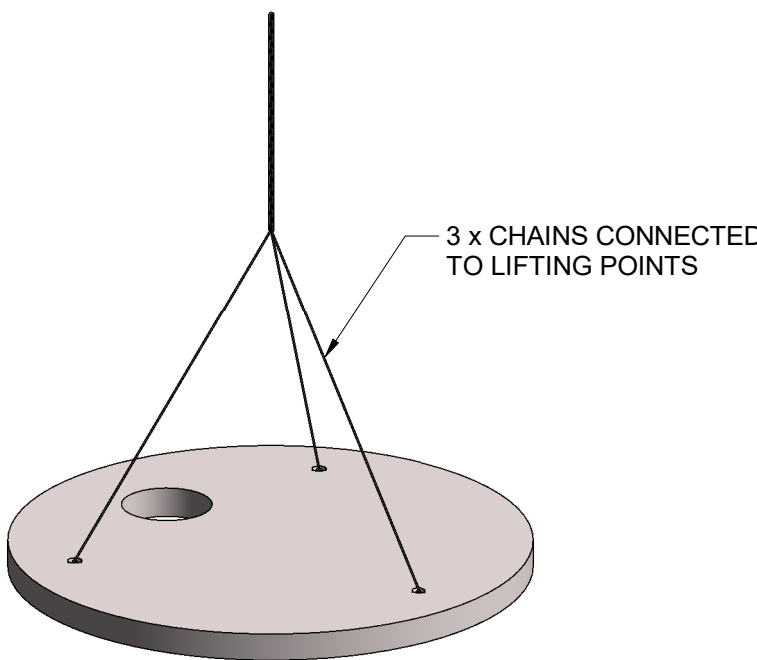
ROUND TANK - INTERNAL LIFTING POINTS



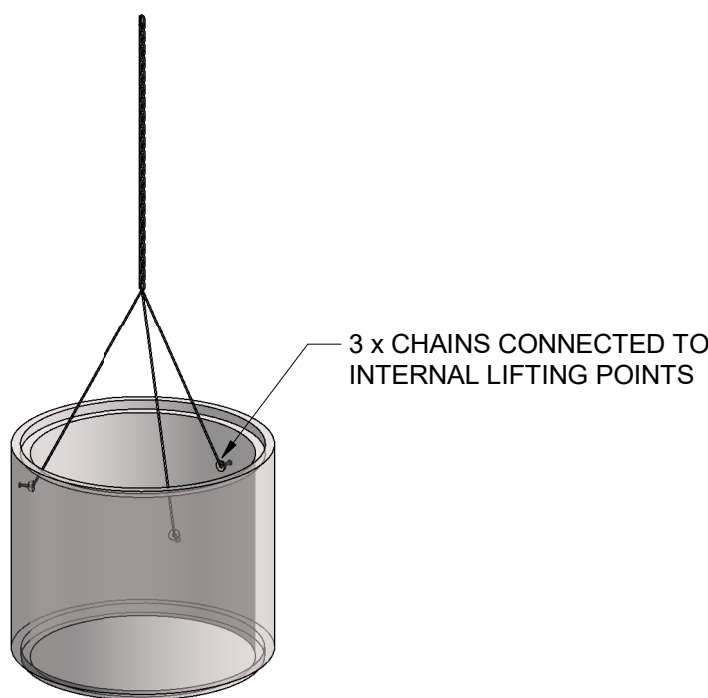
TANK LID - LIFTING POINTS



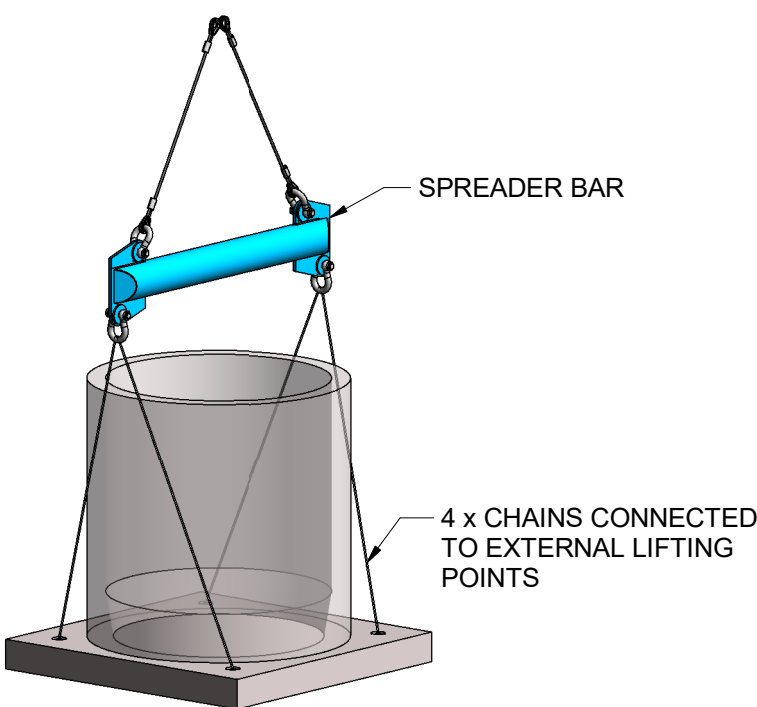
SQUARE/RECTANGULAR TANK LID LIFTING DIAGRAM



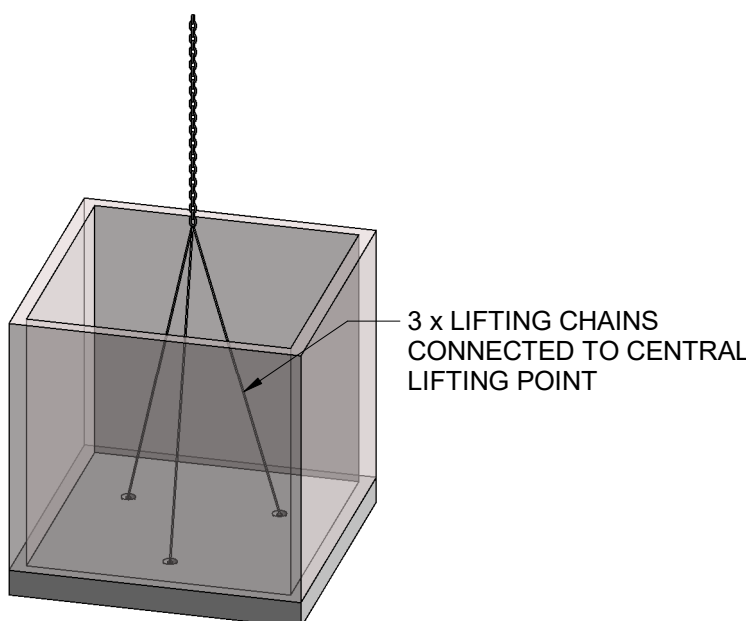
ROUND TANK LID LIFTING DIAGRAM



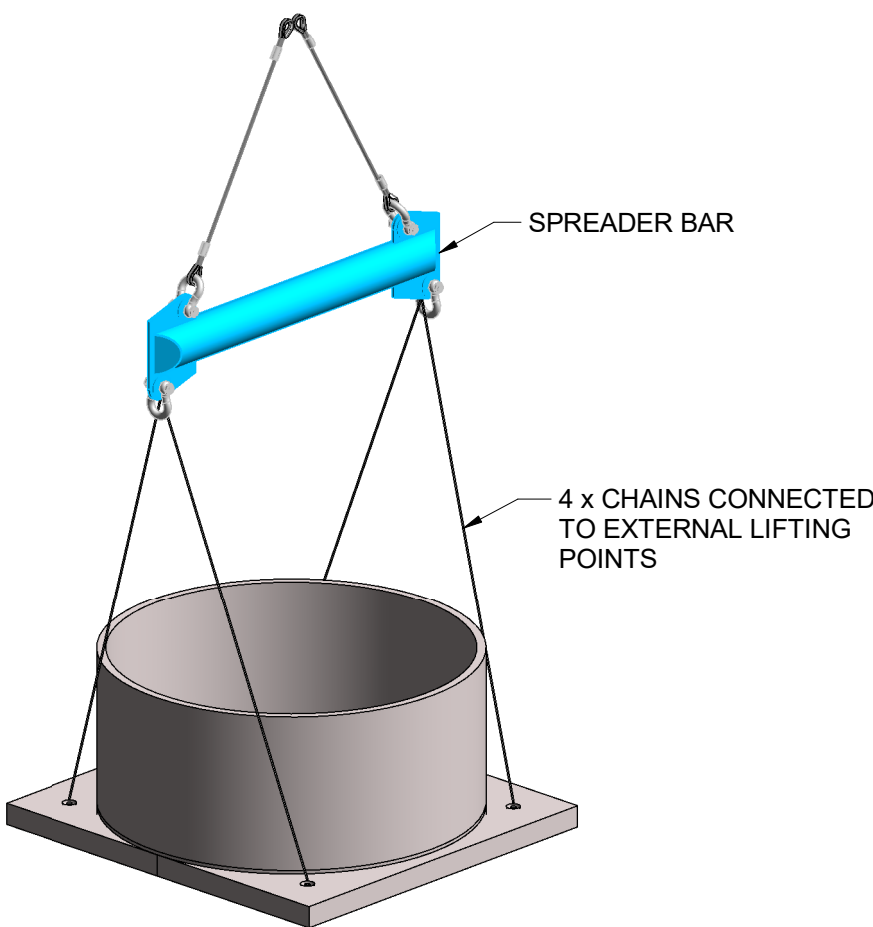
1500Ø RING LIFTING DIAGRAM



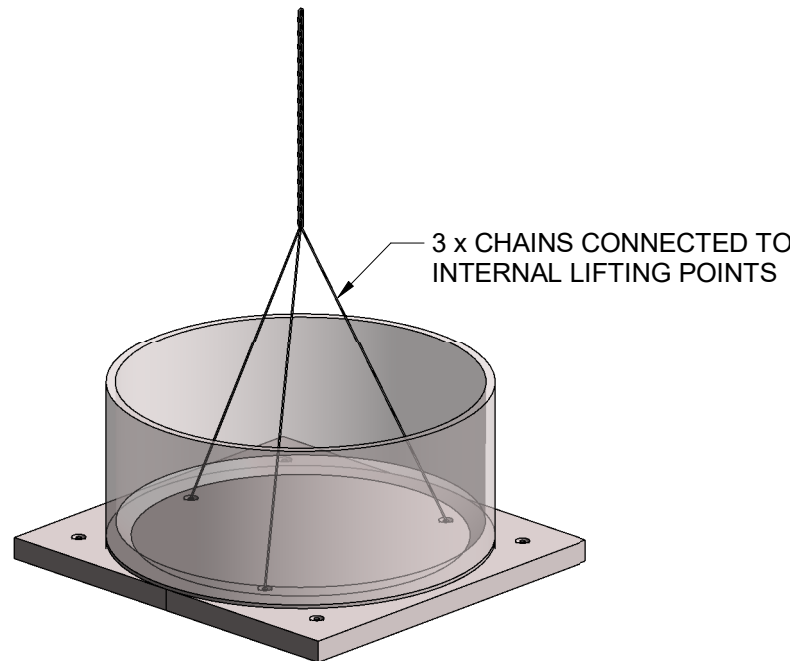
3kL TANK LIFTING DIAGRAM



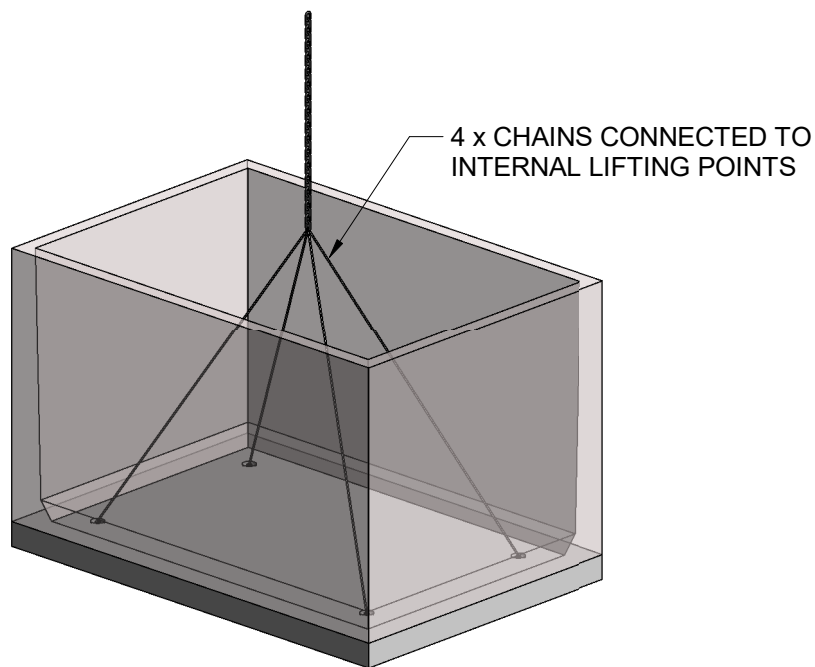
5.8kL TANK LIFTING DIAGRAM



5, 10, 15, 20, 25kL TANK LIFTING DIAGRAM (EXTERNAL POINTS)

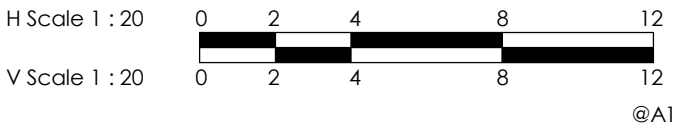


5, 10, 15, 20, 25kL TANK LIFTING DIAGRAM (INTERNAL POINTS)



7, 12kL TANK LIFTING DIAGRAM (INTERNAL POINTS)

0.2	ISSUED FOR CONSTRUCTION	DTA	03/02/20
0.1	FOR REVIEW	DTA	04/11/19
Issue	Description	Issued By	Date



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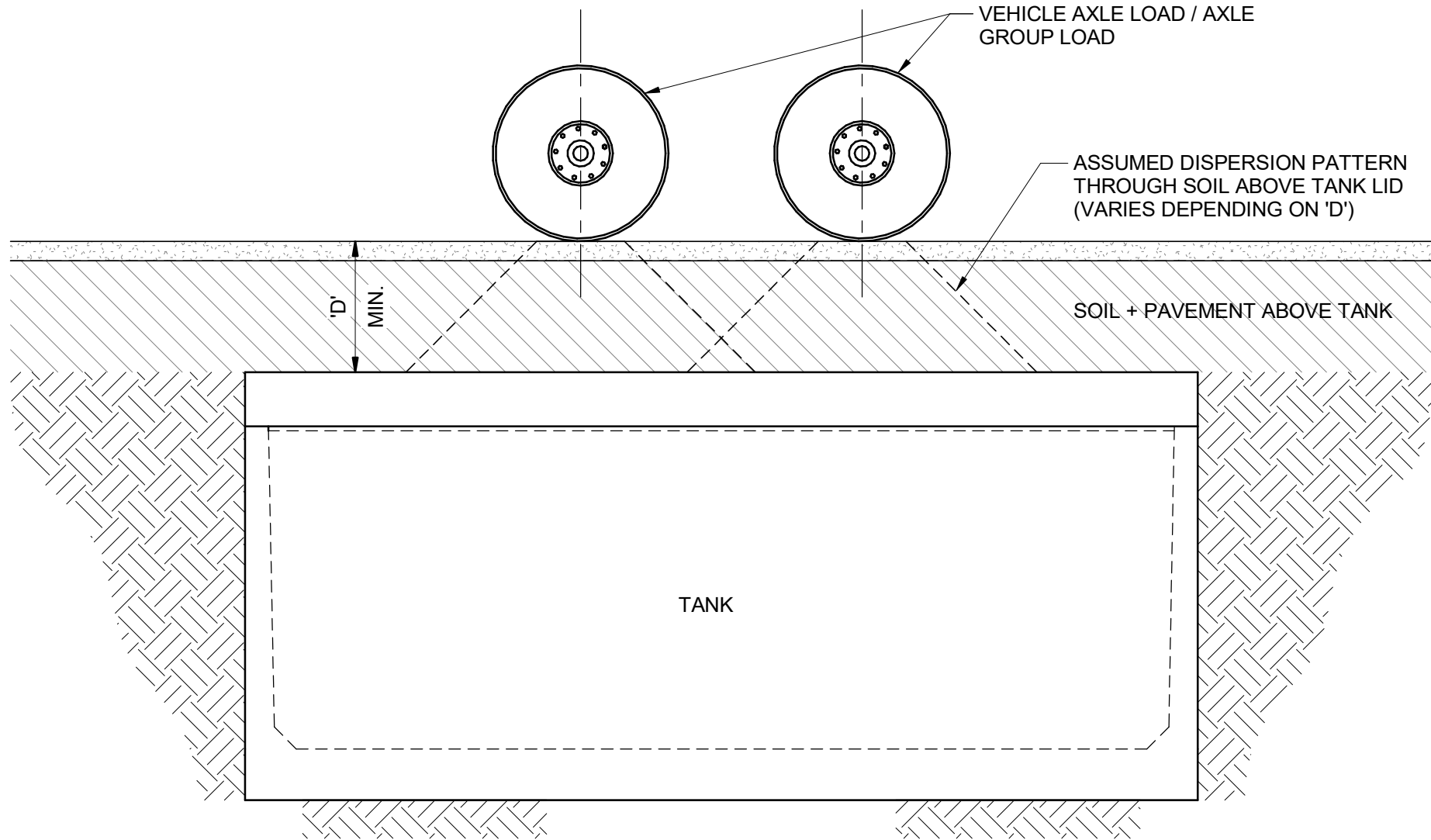


Model
TANK INSTALLATION NOTES &
SPECIFICATIONS

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Checked:	DTA		
RPEQ:	Dean Anderson (RPEQ 21536)		
Drawing Title:	GENERIC LIFTING DETAILS		
		Drawing Number:	Rev:
		1355-G-EN-02	0.2

VEHICLE LOADING CONSIDERATIONS

1. TANK HAS BEEN DESIGNED FOR BELOW GROUND USE IN CONTROLLED TRAFFIC CONDITIONS FOR THE AXLE LIMITS SHOWN IN THE TABLE BELOW.
2. ALL HEAVY VEHICLE LOADS ARE ASSUMED TO BE WITHIN THE GROSS VEHICLE MASS (GVM) AND AXLE MASS LIMITS PRESCRIBED BY THE QUEENSLAND DEPARTMENT OF TRANSPORT AND MAIN ROADS (SEE TABLE BELOW).
3. IT IS THE CLIENT'S RESPONSIBILITY TO ENSURE THAT THE VEHICLE LOAD LIMITS ARE NOT EXCEEDED, THROUGH CLEAR SIGNAGE OR OTHER MEANS.
4. WHERE IT CANNOT BE GUARANTEED THAT THE AXLE LOAD LIMITS SHOWN IN THE TABLE BELOW WILL NOT BE EXCEEDED, TANKS MUST BE DESIGNED FOR SM1600 LOADS TO AS5100 (SPECIFICALLY W80). SM1600 IS DERIVED FROM THE BRIDGE CODE (AS5100.2) AND DESCRIBES A SERIES OF LOADS THAT REPRESENTS DIFFERENT DESIGN CASES SUCH AS A STATIONARY WHEEL (W80), A SINGLE AXLE GROUP (A160), A MOVING TRAFFIC LOAD (M1600) AND A STATIONARY TRAFFIC LOAD (S1600). WHEN THE TANK LID IS SPECIFIED FOR COMPLIANCE WITH LOAD CASES DERIVED FROM THE BRIDGE CODE (eg. W80), IT IS IMPORTANT TO KNOW THAT THE LOAD FACTORS FOR ULTIMATE LIMIT STATE DESIGN MUST BE INCREASED IN ACCORANCE WITH AS5100 (1.8 AS OPPOSED TO 1.5). THIS WILL POTENTIALLY RESULT IN THE REQUIREMENT FOR ADDITIONAL LID REINFORCEMENT OR THICKENING OF THE LID.
5. REFER TO ENGINEER FOR QUERIES RELATED TO VEHICLE LOADING OR SPECIFIC QUERIES RELATED TO COMPLIANCE WITH AS5100.
6. WHEEL LOADS ARE ASSUMED TO BE DISPERSED THROUGH A MINIMUM SOIL COVER DEPTH "D" (SEE ADJACENT TABLE).
7. REFER TO MINIMUM AND MAXIMUM SOIL COVER DEPTHS SHOWN IN THE TABLES ON DRAWING 1355-G-EN-01 AS REQUIRED FOR ANTI-BUOYANCY
8. WHERE SOIL DEPTH ABOVE TANK NEEDS TO BE SHALLOWER THAN SHOWN IN THE TABLE BELOW, SEEK ENGINEER'S ADVICE ABOUT ALTERNATE LID DESIGNS.
9. WHERE THE TANK IS TO BE INSTALLED BENEATH A BASEMENT SLAB, THE HYDROSTATIC PRESSURES ON THE TANK MUST BE CONSIDERED. CONTACT AUSTRALIAN TANKS (ATQ) FOR ADVICE. FURTHER ADVICE IS GIVEN ON DRAWING 1355-G-EN-01.
10. ALL TANK LIDS ARE DESIGNED TO SUPPORT CLASS D RATED ACCESS COVERS AND GRATES. THIS CORRESPONDS TO A NOMINAL WHEEL LOAD OF 8,000kg (W80), SERVICEABILITY DESIGN LOAD OF 140kN AND AN ULTIMATE LIMIT STATE DESIGN LOAD OF 210kN.
11. VEHICLE LOADS APPLIED TO ACCESS COVERS ARE ASSUMED TO BE DIRECTLY BE SUPPORTED BY THE CONCRETE RISER ELEMENTS. AUSTRALIAN TANK RISERS ARE DESIGNED TO SUPPORT THE ACCESS COVER LOADS MENTIONED IN NOTE 10. RISER ELEMENTS ARE IN TURN SUPPORTED DIRECTLY BY TANK LIDS.
12. ENSURE LID IS FULLY INSTALLED PRIOR TO COMMENCING BACKFILLING WORKS. ENSURE THAT EQUIPMENT AND PLANT USED IN BACKFILLING IS ADEQUATELY REVIEWED AS TO NOT OVERLOAD THE WALLS OR LID OF THE TANK.

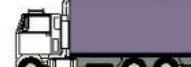


NOTE:
SIZE AND SHAPE OF DISTRIBUTION RECTANGLE ONTO LID CALCULATED IN ACCORDANCE WITH AS5100.2 - 7.12 "DISTRIBUTION PATTERN OF TRAFFIC LOADS THROUGH FILL"

MINIMUM SOIL/PAVEMENT DEPTH ABOVE TANK

TANK SIZE	'D' min. (mm)
3.0 kL ROUND - (2kL GREASE ARRESTOR)	300
5.0 kL ROUND	300
5.8 kL SQUARE - (3,4.5kL GREASE ARRESTORS)	300
7.0 kL RECTANGULAR	300
10.0 kL ROUND - (6kL GREASE ARRESTOR)	300
12.0 kL RECTANGULAR	300
15.0 kL ROUND - (8, 10kL GREASE ARRESTORS)	300
20.0 kL ROUND	300
25.0 kL ROUND - (10, 16kL GREASE ARRESTORS)	300

VEHICLE AXLE LOADS USED IN DESIGN

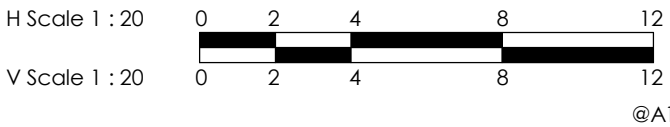
VEHICLE TYPE	STEER AXLE LOAD (t)	SOLID AXLE LOAD (t)	TANDEM AXLE LOAD (t)	TRI-AXLE LOAD (t)
2 x AXLE RIGID TRUCK 	6.0	9.0	-	-
3 x AXLE RIGID TRUCK 	6.0	-	16.5	-
4 x AXLE RIGID TWIN STEER 	11.0	-	16.5	-
6 x AXLE SEMI-TRAILER 	6.0	-	16.5	20.0

NOTES:

- AXLE MASS LIMITS HAVE BEEN DERIVED FROM THE QUEENSLAND DEPARTMENT OF TRANSPORT AND MAIN ROADS (TMR) DOCUMENT TITLED 'AXLE MASS LIMITS IN QUEENSLAND COMPARISON TABLE'.
- AXLE MASS LIMITS ARE IN ACCORDANCE WITH 'REGULATION' LIMITS. FOR HIGHER AXLE LIMITS, SUCH AS THOSE LISTED AS 'HML' OR 'NHVAS', SEE ENGINEER FOR INFORMATION.

APPROVED FOR CONSTRUCTION

0.2	ISSUED FOR CONSTRUCTION	DTA	03/02/20
0.1	FOR REVIEW	DTA	04/11/19
Issue	Description	Issued By	Date



DTA
STRUCTURAL
ENGINEERING

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Model
TANK INSTALLATION NOTES & SPECIFICATIONS

Scale:	1 : 20 @ A1.	Sheet Size:	A1
Drawn:	DTA	THE DESIGNS AND PLANS REPRESENTED ON THIS DRAWING ARE NOT TO BE REPRODUCED IN WHOLE OR PART WITHOUT CONSENT OF DTA STRUCTURAL ENGINEERING PTY LTD. ALL DIMENSIONS TO BE VERIFIED ON SITE. REPORT ANY DISCREPENCIES TO THE ENGINEER. DO NOT SCALE OFF DRAWINGS.	
Checked:	DTA		
RPEQ:	Dean Anderson (RPEQ 21536)		
Drawing Title:			
VEHICLE LOADING		Drawing Number:	Rev:
		1355-G-EN-03	0.2

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS, SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS. REFER ALL DISCREPANCIES TO THE ENGINEER.
2. VERIFY ALL DIMENSIONS RELEVANT TO THE MANUFACTURE OF TANKS AND SETTING OUT ON AND OFF SITE WORK BEFORE CONSTRUCTION AND/OR FABRICATION IS COMMENCED.
3. DO NOT SCALE THE DRAWINGS UNLESS NOTED OTHERWISE.
4. MAINTAIN ALL STRUCTURES INCLUDING NEIGHBOURING STRUCTURES IN A STABLE CONDITION DURING CONSTRUCTION.
5. COMPLY WITH THE RELEVANT CURRENT AUSTRALIAN STANDARD CODES AND THE LOCAL STATUTORY AUTHORITIES REGULATIONS EXCEPT WHERE VARYED BY THE CONTRACT DOCUMENTS. COMPLY WITH THE REQUIREMENTS OF THE WORKPLACE HEALTH AND SAFETY ACT (QLD).
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
7. NO RESPONSIBILITY IS TAKEN FOR THE INTERACTION OF TANKS WITH EXISTING INFRASTRUCTURE AND SERVICES. THE INSTALLING CONTRACTOR IS TO ENSURE THAT THE TANKS DO NOT DAMAGE OR APPLY A LOAD TO EXISTING INFRASTRUCTURE.
8. ALL PROPRIETARY ITEMS MUST BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
9. HANDRAILS AND FIXINGS SHALL BE DESIGNED AND INSTALLED TO RESIST LOADS TO AS1170 WITH STRUCTURAL ENGINEERING CERTIFICATION SUPPLIED BY THE MANUFACTURER.
10. INTERIOR OF PRECAST TANK TO BE LINED USING APPROVED WATERPROOFING AGENT ACCORDING TO PRECAST MANUFACTURERS SPECIFICATION (IF REQUIRED).
11. CONSTRUCTION DRAWINGS MUST BE READ IN CONJUNCTION WITH THE CONSTRUCTION NOTES AND DETAILS ON THE STANDARD DRAWINGS FOR EACH VARIATION.
12. THE DESIGN REPRESENTED ON THE STRUCTURAL DRAWINGS FOR EAC PRODUCT IS NOT VALID UNLESS PERIODIC INSPECTIONS BY THE CERTIFYING PARTY IS CARRIED OUT TO ENSURE THAT TANKS ARE BUILT IN ACCORDANCE WITH THE REQUIREMENTS SET OUT IN THESE DRAWINGS.

1. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT STANDARDS AUSTRALIA CODES AND THE BUILDING CODE OF AUSTRALIA.
2. TANKS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PORTLAND CEMENT ASSOCIATION MANUAL 'CIRCULAR CONCRETE TANKS' AND RECTANGULAR CONCRETE TANKS AND ALSO IN ACCORDANCE WITH S3800 'CONCRETE STRUCTURES CODE' AND AS3735 'LIQUID RETAINING STRUCTURES' CODE.
3. TANKS HAVE BEEN DESIGNED FOR BELOW GROUND ENVIRONMENTS WITH NON-AGGRESSIVE AND NON-SALINE SOILS. FOR OTHER CONDITIONS CONTACT ENGINEER FOR ADVICE.
4. TANKS HAVE BEEN DESIGNED FOR ABOVE-GROUND USE IN SUB-TROPICAL REGIONS WHERE OUTSIDE TEMPERATURE CAN BE EXPECTED TO REACH A MAXIMUM OF 30 DEGREES CELSIUS HIGHER THAN THE INTERNAL TANK TEMPERATURE ONLY.
5. NOTE: TANK EXTERIOR SHALL NOT BE PAINTED WITH DARK COLOURS.
6. TANK IS APPROVED FOR DOMESTIC SEWAGE APPLICATIONS WHERE THE CONTENTS WILL NOT BE DISTURBED (eg. DUE TO DROPS), WHERE ADEQUATE VENTILATION IS PROVIDED TO PREVENT THE BUILD-UP OF GASEOUS HYDROGEN SULFIDE WITHIN THE TANK AND WHERE APPROPRIATE COATINGS ARE USED INTERNALLY.
7. TANKS HAVE BEEN DESIGNED TO WITHSTAND VEHICLE LOADING. THE TERM 'RESTRICTED TRAFFIC' REFERS TO CONTROLLED TRAFFIC CONDITIONS WHERE THE HEAVIEST VEHICLE SUPPORTED AS ASSUMED TO BE WITHIN THE GROSS VEHICLE MASS (GVM) AND AXLE MASS LIMITS PRESCRIBED BY QUEENSLAND DEPARTMENT OF TRANSPORT AND MAIN ROADS. CURRENT TANK DESIGN IS BASED ON THE AXLE MASS LIMITS SHOWN IN THE TABLE ON DRAWING 1355-G-EN-03.
8. REFER TO TABLE ON DRAWING 1355-G-EN-01 FOR MINIMUM SOIL/PAVEMENT COVER OVER TANKS FOR ANTI-FLOTATION. WHETHER ANTI-FLOTATION REQUIREMENTS APPLY TO THE SPECIFIC TANK APPLICATION SHOULD BE CONFIRMED BY THE CLIENT AND CLIENT'S ENGINEER.
9. WHEN LOADS ARE ASSUMED TO BE PERSEVERE THROUGH MINIMUM SOIL/PAVEMENT DEPTHS AS SHOWN ON THE TABLE AND NOTES ON 1355-G-EN-03.
10. REFER TO TABLE ON DRAWING 1355-G-EN-01 FOR MAXIMUM SOIL/PAVEMENT DEPTH ABOVE TANKS.
11. NO SURCHARGE LOADS SHALL BE PERMITTED WITHIN A DISTANCE EQUAL TO THE OVERALL HEIGHT OF THE TANK UNTIL THE LID HAS BEEN INSTALLED.
12. IF THE TANK IS TO BE INSTALLED BENEATH A BASEMENT SLAB, THE HYDROSTATIC PRESSURES ON THE TANK MUST BE CONSIDERED. CONTACT AUSTRALIAN TANKS (ATQ) FOR ADVICE. FURTHER ADVICE IS GIVEN ON DRAWING 1355-G-EN-01.

1. ALL CHEMICAL ANCHORS SHALL BE RAMSET "CHEMSET REO 502" EPOXY SERIES OR HILTI "HIT - RE 500 INJECTION ADHESIVE" OR POWERS "POWER - FAST PRO EPOXY INJECTION SYSTEM" OR APPROVED EQUIVALENT. ALL PREPARATION AND APPLICATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURERS SPECIFICATION.

1. CORE HOLES IN WALLS SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED ON ENGINEERING DRAWINGS FOR EACH TANK TYPE.
2. CUT BARS SHALL BE PRIMED WITH ZINGA "ZINGASPRAY" WITH A DRY FILM THICKNESS OF 120µm IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1. REFER TO SPECIFIC DETAILS ON DRAWING 1355-G-EN-02.

1. POLYMER FIBRE-REINFORCED CONCRETE WALLS ARE SEPARATELY CERTIFIED BY FIBRECON QLD PTY LTD.
2. FIBRE DOSAGE SHOWN ON THE STRUCTURAL DRAWINGS IS SPECIFIED BY FIBRECON.
3. REFER TO FIBRECON FOR ANY TEST CERTIFICATES OR OTHER REPORTS PERTAINING TO THE MECHANICAL PROPERTIES OF THE FIBRES.

1. COMPLY WITH AS3600 CONCRETE STRUCTURES.
2. DESIGN AND CONSTRUCT FORMWORK IN ACCORDANCE WITH AS3610.1.
3. PROVIDE QUALITY OF FINISHES OF FORMED SURFACES IN ACCORDANCE WITH AS3610.1 AND AS FOLLOWS ON DRAWINGS.
 - a. EXPOSED SURFACES: CLASS 3
 - b. CONCEALED SURFACES: CLASS 4
 - c. IN CONTACT WITH GROUND: CLASS 5
4. THE LISTED SIZE OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. PROVIDE CHAMFERS, FILLETS REGLETS AND DRIP GROOVES AS SHOWN ON THE STRUCTURAL DRAWINGS.
 - a. DO NOT MAKE ANY PENETRATION OR CHASES OR EMBED ANY ITEMS OTHER THAN THOSE SHOWN IN THE STRUCTURAL DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
6. FORM CONSTRUCTION JOINTS ONLY WHERE APPROVED BY THE ENGINEER.
7. REINFORCEMENT SYMBOLS:
 - a. "S" DENOTES GRADE 250S HOT ROLLED DEFORMED BAR TO AS 4671
 - b. "R" DENOTES GRADE 250R HOT ROLLED PLAIN BAR TO AS4671
 - c. "W" DENOTES HARD-DRAWN PLAIN WIRE TO AS 4671
 - d. "R#" & "L" DENOTES HARD-DRAWN RIBBED WIRE FABRIC TO AS 4671
 - e. "N" DENOTES GRADE 500N HOT ROLLED DEFORMED BAR TO AS 4671
 - f. THE NUMBER FOLLOWING THE BAR SYMBOL IS THE BAR DIAMETER IN mm.
8. MINIMUM COVER (mm) TO ALL REINFORCEMENT INCLUDING FITMENTS SHALL BE AS FOLLOWS, U.N.O.:

ELEMENT	COVER (mm)
TANK BASES WITH EXPOSURE CLASS 'B2'	35
TANK LIDS	35

9. MINIMUM REINFORCEMENT LAP LENGTHS:

REINFORCING LAP SCHEDULE							
BAR $\varnothing$	FOOTING LAP		BEAM LAP		SLAB LAP	WALL LAP	COLUMN LAP
	BOTTOM	TOP	BOTTOM	TOP			
N12	500	650	500	650	500	500	500
N16	750	1000	750	1000	750	750	750
N20	1000	1300	1000	1300	1000	1000	1000
N24	1250	1600	1250	1600	1250	1250	1250
N28	1500	1950	1500	1950	1500	1500	1500
N32	1800	2300	1800	2300	1800	1800	1800
N36	2100	2700	2100	2700	2100	2100	2100
N40	2450	3150	2450	3150	2450	2450	2450

10. SUPPORT REINFORCEMENT IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS SUITABLE FOR THE EXPOSURE CONDITIONS.
11. DO NOT WELD OR SITE BEND REINFORCEMENT UNLESS SHOWN IN THE DRAWINGS OR OTHERWISE SPECIFIED BY THE ENGINEER.
12. LAP REINFORCEMENT MESH BY ONE COMPLETE MESH.
13. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
14. SAMPLE TEST AND ASSESS CONCRETE COMPLIANCE IN ACCORDANCE WITH PROJECT ASSESSMENT OF STRENGTH GRADE TO SECTION 19.1.6 A53600-2009.
15. THE CONCRETE SHALL BE COMPACTED USING HIGH FREQUENCY VIBRATORS.
16. CURING OF ALL CONCRETE SURFACES SHALL COMMENCE IMMEDIATELY AFTER SURFACES ARE FINISHED BY THE APPLICATION OF ALIPHATIC ALCOHOL AFTER EACH FINISHING OPERATION WHILE WATER SHEEN IS STILL EVIDENT THEN AS SPECIFIED AND SHALL CONTINUE FOR A MINIMUM OF 7 DAYS. CURING METHOD SHALL BE EITHER: CHEMICAL. AD MixTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
18. CEMENT SHALL BE TYPE NORMAL CLASS PORTLAND CEMENT UNLESS NOTED OTHERWISE.
19. MAXIMUM 56 DAY SHRINKAGE STRAIN WHEN TESTED IN ACCORDANCE WITH AS1012. WATER/CEMENT RATIO SHALL BE A MAXIMUM OF 0.46.
20. MAXIMUM FLYASH CONTENT TO BE 10% MEASURED BY WEIGHT OF CEMENTITIOUS MATERIAL.
21. ALL SLAB SEALANTS SHALL BE SIKAFLEX PRO 2HP POLYURETHANE JOINT SEALANT OR APPROVED EQUIVALENT. SEALANT MUST BE APPLIED STRICTLY TO MANUFACTURERS SPECIFICATIONS WITH REGARD TO JOINT CONFIGURATION, SURFACE PREPARATION, PRIMING, DEBONDING, APPLICATION AND CURE TIMES.
22. ALL CHEMICAL ANCHORS SHALL BE RAMSET CHEMSET INJECTION 800 SERIES OR HILTI HIT-RE 500 INJECTION ADHESIVE OR APPROVED EQUIVALENT. ALL PREPARATION AND APPLICATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.

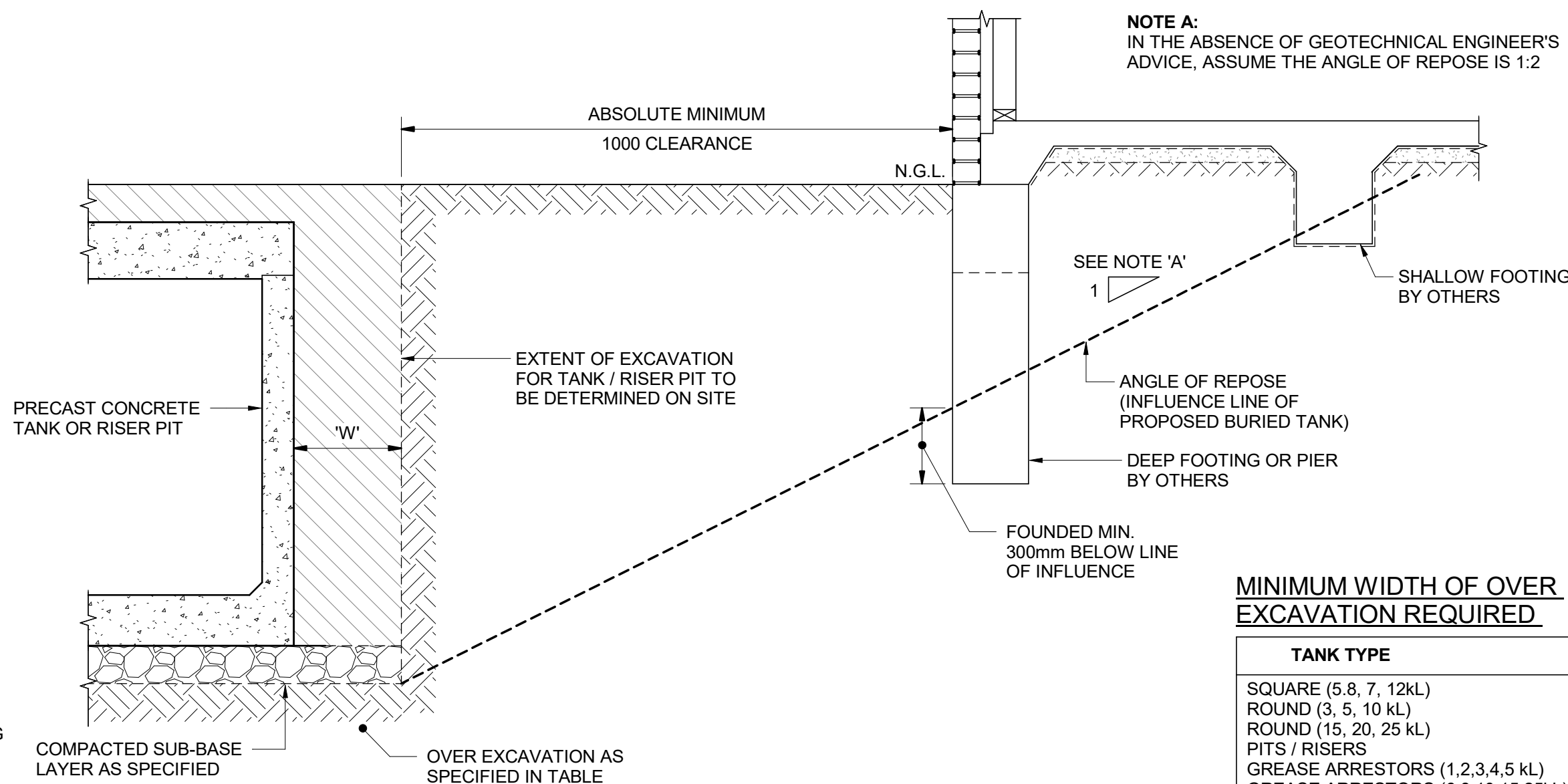
TANK BASE MUST BE FOUNDED ON NATURAL MATERIAL WITH ALLOWABLE BEARING CAPACITY OF 150kPa MIN.

DEPTH OF SOIL COVER (mm)	BASE LAYER THICKNESS (mm) *
<1000	100
1000 - 1500	150
1501 - 2000	200

* FOR FOUNDING TANK ON NATURAL GROUND WITH 150 kPa ALLOWABLE BEARING CAPACITY. ALTERNATIVELY WHERE ALLOWABLE BEARING CAPACITY = 175 kPa, A 100mm THICK BASE LAYER IS ADEQUATE UP TO 2000mm SOIL COVER.

1. THE BASE SLAB IS NOT TO BE FOUND ON A CUT/FILL PLATFORM. BASE SLAB IS TO BE WHOLLY FOUND IN EITHER CUT OR FILL. A LEVELLING LAYER / COMPACTED SUB-BASE TO ABOVE MENTIONED DEPTHS TO BE PROVIDED.
2. SUB-BASE IS TO BE COMPACTED SAND / ROAD BASE AT THE BASE OF THE EXCAVATION WITH A MINIMUM CBR40 FOR TANKS SUBJECT TO VEHICLE LOADS, OR CBR15 OTHERWISE.
3. GEOTECHNICAL INVESTIGATION REPORT SPECIFYING THE SITE SOIL CLASSIFICATION AND ALLOWABLE BEARING CAPACITY MUST BE PROVIDED TO AUSTRALIAN TANKS TO VALIDATE THIS DESIGN.
4. WHERE MINIMUM BEARING CAPACITY SPECIFIED CAN NOT BE ACHIEVED AT TANK BASE LEVEL CONTACT AUSTRALIAN TANKS ENGINEERS FOR SPECIFIC FOUNDATION DESIGN.

1. LEVEL 1 SUPERVISION AND TESTING OF FILLING MUST BE UNDERTAKEN WHERE FILLING IS TO SUPPORT BUILDINGS OR PAVEMENTS. THE FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT MORE THAN 200mm THICK. EACH LAYER SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DRY DENSITY AS DEFINED BY THE STANDARD COMPACTION TEST AS1289.
2. WHEN BACKFILLING AROUND AND ADJACENT TO WALLS FOR AREAS NOT DIRECTLY SUBJECT TO AND OUTSIDE THE ZONE OF INFLUENCE FROM VEHICULAR TRAFFIC. UNCONTROLLED FILL COMPRISED OF CLEAN WELL GRADED MATERIAL FREE OF ANY ORGANIC MATTER MAY BE USED AS AN ALTERNATIVE AT THE CLIENT'S DISCRETION.
3. AUSTRALIAN TANKS SUGGEST A SANDY GRANULAR COMPACTABLE, OR SELF-COMPACTABLE MATERIAL.
4. DRAINAGE GRAVEL OR SIMILAR MATERIAL IS PERMITTED SO LONG AS SUITABLE CALCULATIONS HAVE BEEN CARRIED OUT TO CHECK THE REDUCED SHEAR STRENGTH REQUIRED IS SUITABLE FOR ANTI-FLOATATION REQUIREMENTS. (SEEK ENGINEER'S ADVICE).
5. BACKFILLING VARIATIONS IN HEIGHT BETWEEN ON OPPOSITE SIDES OF A WALL SHALL NOT EXCEED 500mm.
6. VIBRATORY TYPE COMPACTION OF BACKFILL AND OVERBURDEN MATERIAL NOT PERMITTED. SEEK AUSTRALIAN TANK ENGINEER'S ADVICE FOR REQUIREMENTS.
7. ENSURE TANK LID IS FULLY INSTALLED AND SEALED PRIOR TO SURCHARGING WALLS OR LID DURING BACKFILL PROCEDURE.



MINIMUM WIDTH OF OVER
EXCAVATION REQUIRED

TANK TYPE	WIDTH 'W'
SQUARE (5.8, 7, 12kL)	250
ROUND (3, 5, 10 kL)	250
ROUND (15, 20, 25 kL)	300
PITS / RISERS	150
GREASE ARRESTORS (1,2,3,4,5 kL)	250
GREASE ARRESTORS (6,8,10,15,25kL)	250

NOTE:
PROJECT ENGINEER MUST APPROVE PROPOSED
TANK / RISER PIT LOCATION AND EXCAVATION

AS REQUIRED UNDER SECTION 28 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, **DTA STRUCTURAL ENGINEERING HAS** UNDERTAKEN A SAFETY IN DESIGN (SID) ASSESSMENT FOR THIS PROJECT AND, AS DESIGNERS, WE AGREE TO PROVIDE WRITTEN COMMUNICATION TO OUR CLIENT THAT SPECIFIES THE HAZARDS OF OUR DESIGN, AS WE ARE REASONABLY AWARE THAT:

- A. CREATE A RISK TO THE HEALTH OR SAFETY OF PERSONS WHO ARE INVOLVED IN THE CONSTRUCTION, OPERATION, MAINTENANCE AND DECOMMISSIONING OF THE PROJECT; AND
- B. THAT ARE SPECIFIC TO THE PROJECT.

2. THE SCOPE OF THE FOLLOWING SID ASSESSMENT IS LIMITED TO THE HAZARDS THAT ARE REASONABLY FORSEEABLE AT THE TIME OF DESIGN AND THAT COULD RESULT FROM DESIGN TYPES OF THE PROJECT THAT WE ARE RESPONSIBLE FOR.

3. THIS ASSESSMENT DOES NOT SEEK TO IDENTIFY ALL CONSTRUCTION SITE HAZARDS COMMONLY ENCOUNTERED WITH PROJECTS OF THIS NATURE, FOR WHICH THE IDENTIFICATION AND MANAGEMENT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

4. OUR ASSESSMENT ASSUMES ANY WORK UNDERTAKEN IN THE PROJECT UNDER THE CONTRACTOR WILL BE CARRIED OUT BY SUITABLY QUALIFIED PERSONNEL WITH APPROPRIATE EXPERIENCE AND COMPETENCE TO UNDERTAKE THE WORK.

5. ANY ADDITIONAL HAZARDS OR RISKS THAT MAY ARISE DURING THE PROJECT LIFE NOT COVERED IN THIS REPORT SHOULD BE BROUGHT TO THE ATTENTION OF **AUSTRALIAN TANKS** FOR REVIEW AND DIRECTION ON RESOLUTION.

6. THE SID PROCESS INVOLVED THE FOLLOWING STEPS:

- A. HAZARD IDENTIFICATION
- B. CONSEQUENCE ASSESSMENT
- C. RISK RATING
- D. IDENTIFICATION OF CONTROL MEASURES TO MITIGATE RISK
- E. INCORPORATION OF CONTROL MEASURES INTO DESIGN
- F. RISK RE-RATING OF HAZARDS

REFER TO THE FOLLOWING RISK RATING REGISTER

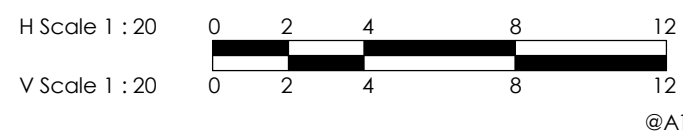
7. THE CLIENT MUST PROVIDE A COPY OF THIS ASSESSMENT TO THE PRINCIPAL CONTRACTORS TENDERING ON THIS PROJECT, MAINTENANCE PERSONNEL AND BUILDING USERS.

[illegible][illegible]

	High Fatality Major illness Long term disability	Medium Injury/illness causing Short term disability	Low Minor injury/illness
High Certain/nearly certain	H	H	M
Medium Reasonably likely	H	M	L
Low Seldom	M	L	L

3 x 3 Risk Assessment Matrix

0.2	ISSUED FOR CONSTRUCTION	DTA	03/02/20
0.1	FOR REVIEW	DTA	04/11/19
Issue	Description	Issued By	Date



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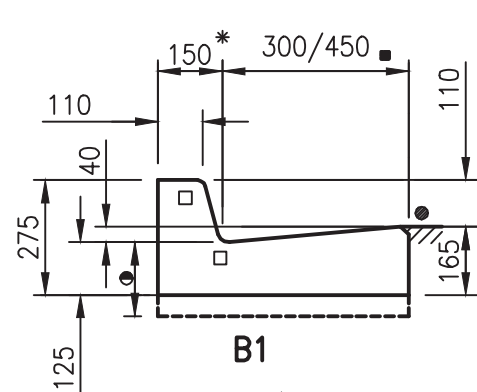


Australian Tanks
1300-A-TANKS
Water and Waste Water Specialists

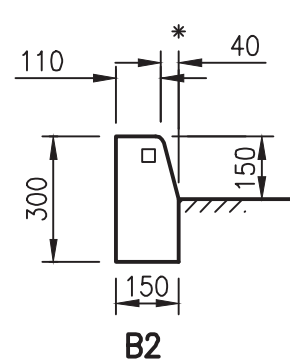
Model

TANK INSTALLATION NOTES & SPECIFICATIONS

Scale:	As indicated @ A1.	Sheet Size:	A1
Drawn:	DTA	THE DESIGNS AND PLANS REPRESENTED ON THIS DRAWING ARE NOT TO BE REPRODUCED IN WHOLE OR PART WITHOUT CONSENT OF DTA STRUCTURAL ENGINEERING PTY LTD. ALL DIMENSIONS TO BE VERIFIED ON SITE. REPORT ANY DISCREPANCIES TO THE ENGINEER. DO NOT SCALE OFF DRAWINGS.	
Checked:	DTA		
RPEQ:	Dean Anderson (RPEQ 21536)		
Drawing Title:			
GENERIC ENGINEERING NOTES		Drawing Number:	Rev:
		1355-G-EN-04	0.2

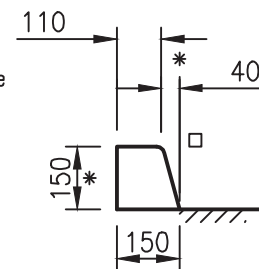


B1



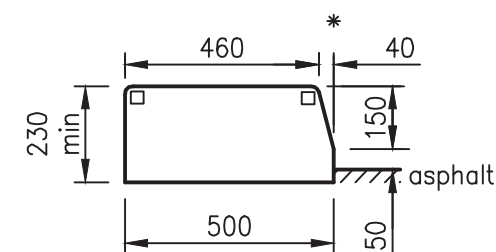
B2

*For Carpark where overhang is required can reduce to 100.

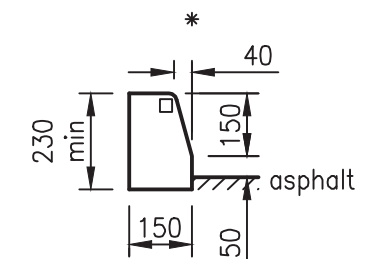


B4

BARRIER TYPE



B6



B7

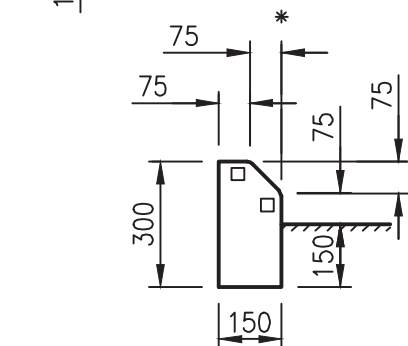
REFER TO PROJECT DRAWINGS FOR KERB SETOUT

NOTES:

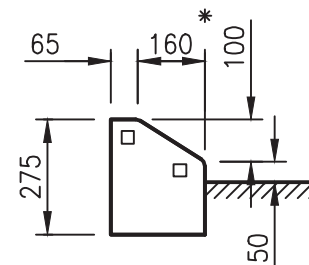
1. All materials and construction shall comply with AS 2876 except for dimensions on this drawing.
2. All concrete N32 min (refer project documentation) in accordance with AS 1379 and AS 3600 unless approved otherwise by relevant Council.
3. Control joints shall be 3 metre centres unless otherwise directed by relevant Council.
4. Expansion joints at 12 metre centres unless otherwise directed by relevant Council. Expansion joints, preformed jointing material of bituminous fibreboard or equivalent approved by relevant Council.
5. All dimensions are in millimetres unless shown otherwise.

LEGEND

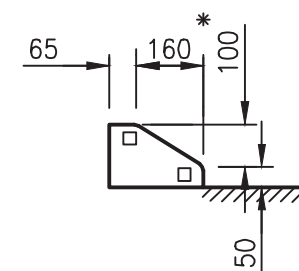
- * nominal kerb line.
- Channel invert width, refer project drawings.
- Chamfer 20
- R20 Radius.
- 175 where specified for commercial and industrial applications, refer project drawings.



SM2

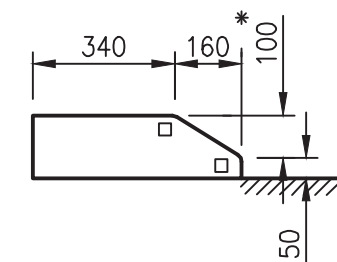


SM3

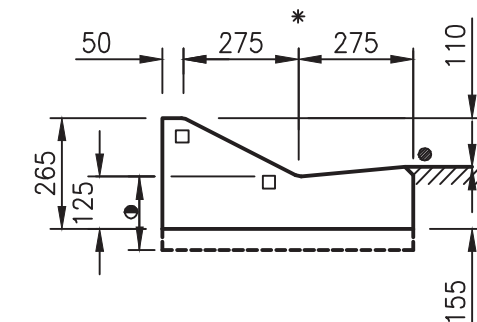


SM4

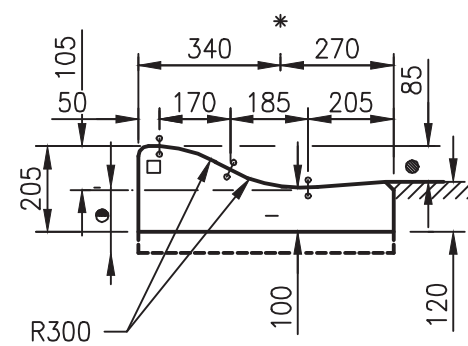
SEMI - MOUNTABLE TYPE



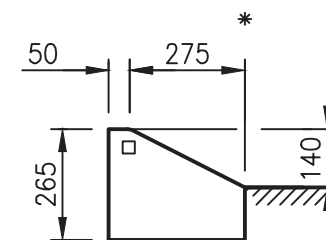
SM5



M1

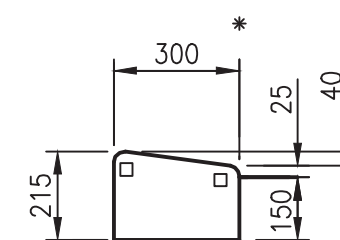


M3

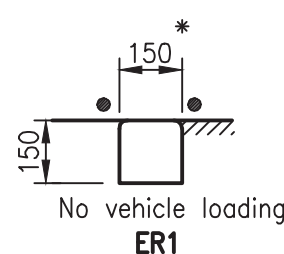


M4

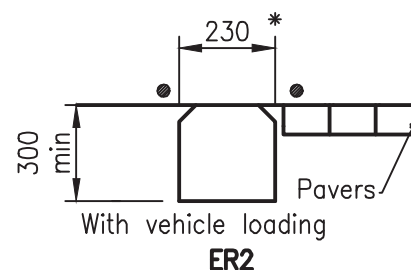
MOUNTABLE TYPE



M6

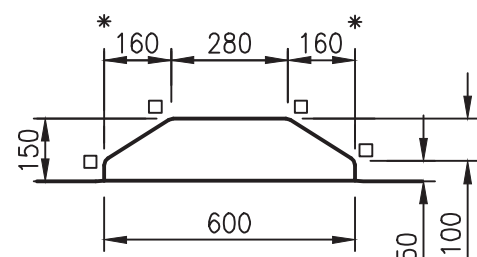


ER1

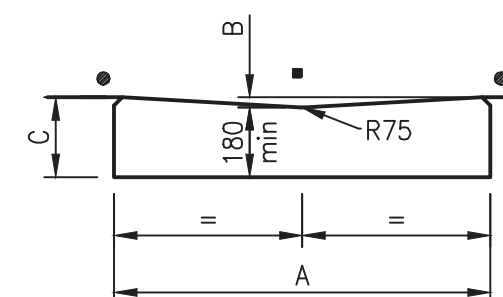


ER2

EDGE RESTRAINT



MEDIAN



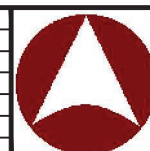
DIMENSION		
A	B	C
600	25	200 min
900	40	220 min

For wider channel's refer to project drawings

CHANNEL

These drawings have been developed in consultation between the participating Councils.
BEFORE USE, the user shall confirm that the drawing has been adopted by the appropriate Council.

Rv.	DATE	REVISIONS
F	04/17	Modify kerb lip radius to chamfer
E	06/14	Review
D	06/11	Review
C	06/10	Review
B	06/09	Review
A	03/08	ORIGINAL ISSUE

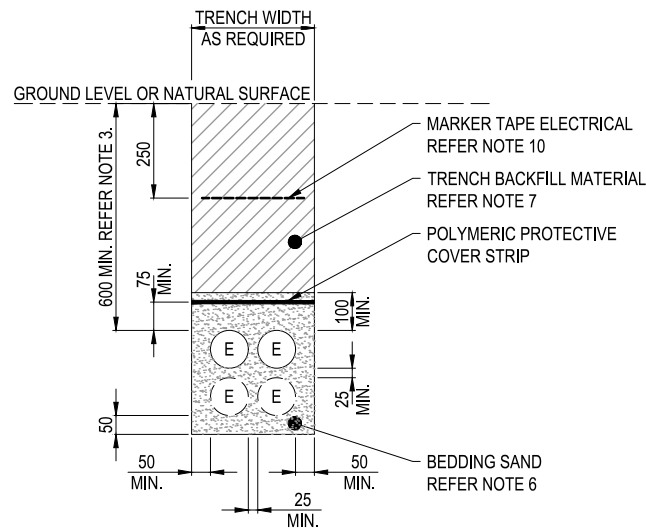


INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA
STANDARD DRAWINGS

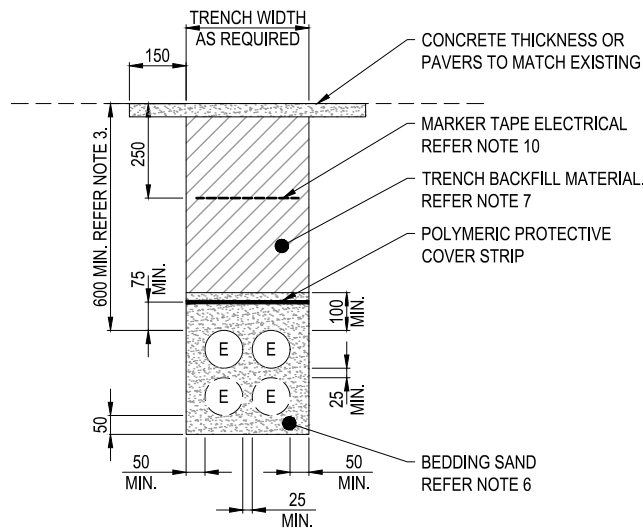
KERB AND CHANNEL
PROFILES AND DIMENSIONS
INCLUDING EDGE RESTRAINTS, MEDIAN & CHANNEL

RS-080

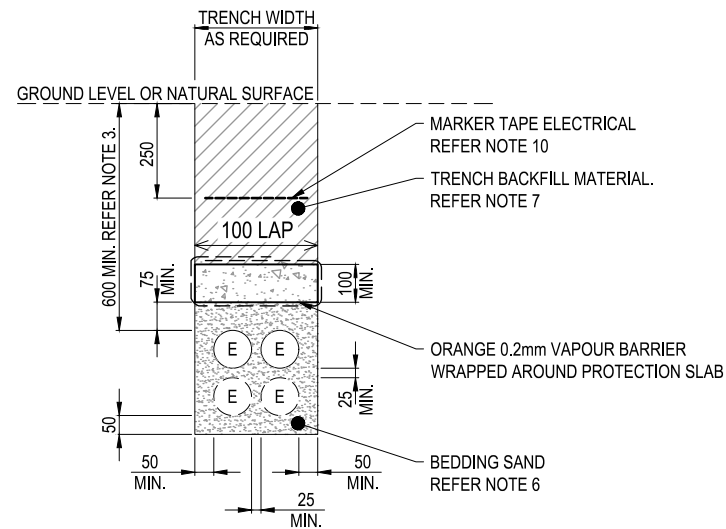
Rv.	DATE	REVISIONS
F	04/17	Modify kerb lip radius to chamfer
E	06/14	Review
D	06/11	Review
C	06/10	Review
B	06/09	Review
A	03/08	ORIGINAL ISSUE



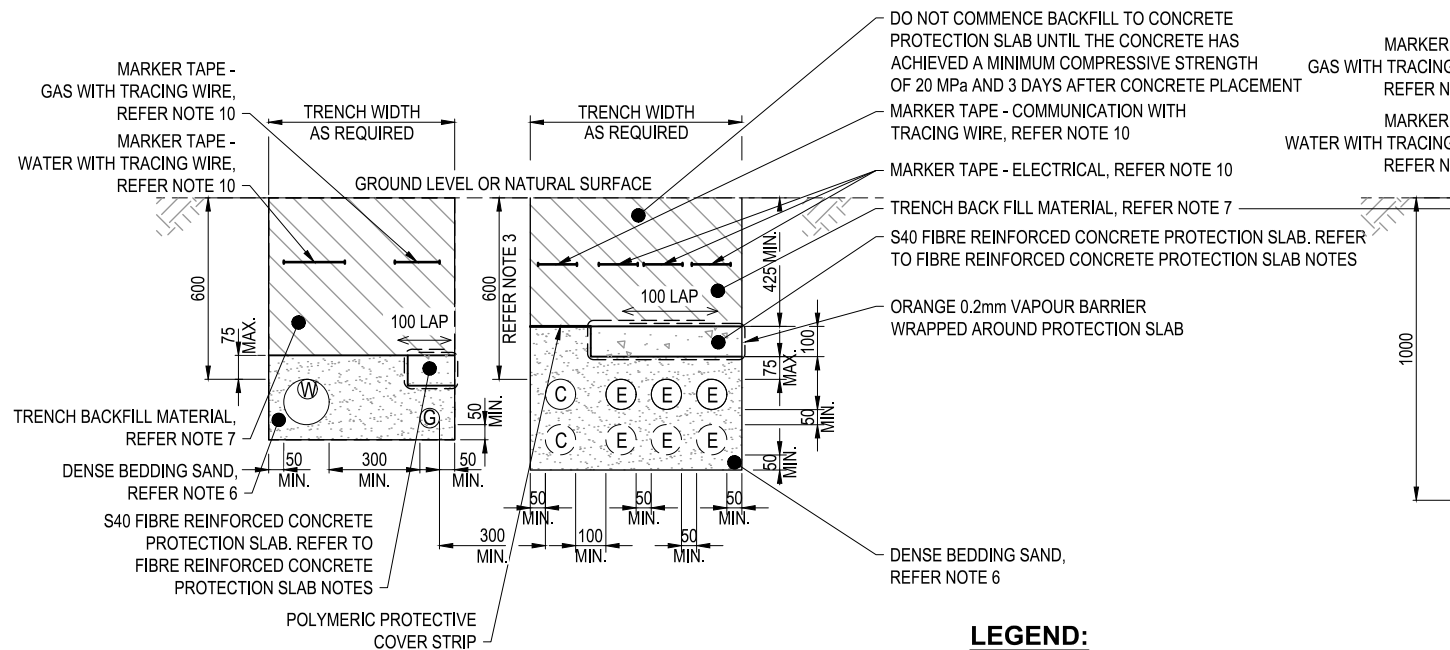
TYPE 1 TRENCH
OPEN AREAS - FOOTPATHS
(EARTH OR BITUMEN)
ELV / LV-230V / 400V
SCALE 1:10



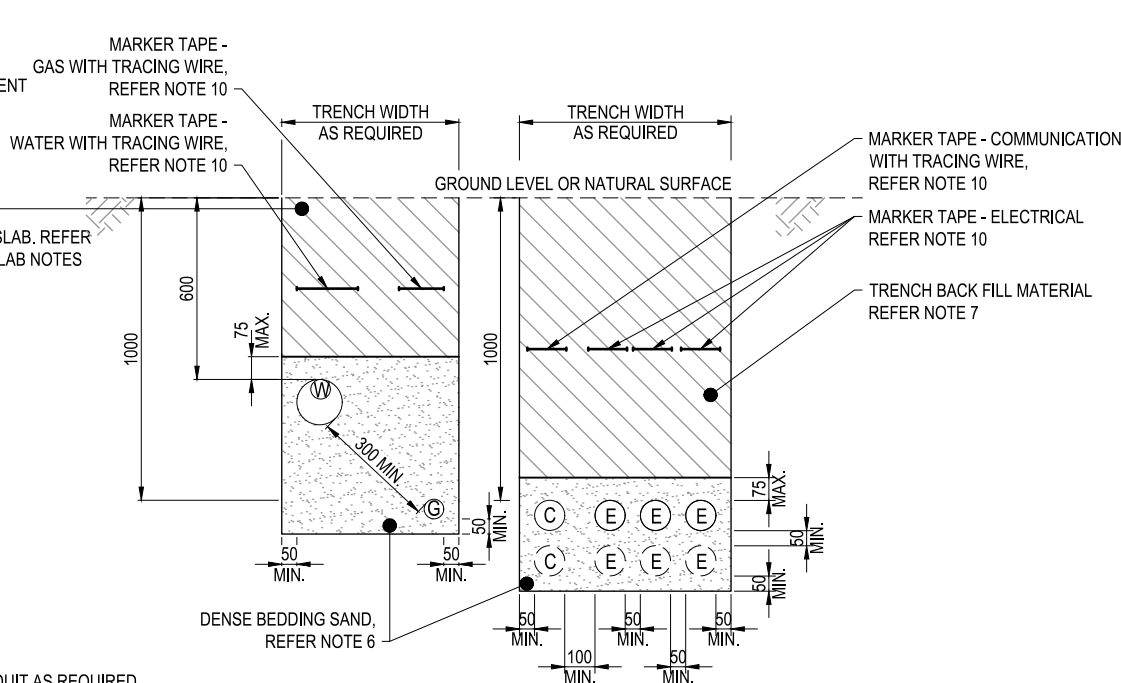
TYPE 2 TRENCH
OPEN AREAS - FOOTPATHS
(PAVERS OR CONCRETE)
ELV / LV-230V / 400V
SCALE 1:10



TYPE 3 TRENCH
EVENT, SHOW OR CARNIVAL SITES, SPORT FIELDS, GARDEN BEDS
(EARTH, MULCH OR GRASS)
ELV / LV-230V / 400V
SCALE 1:10



TYPE 1A-600 TRENCH
COMBINED SERVICES
SCALE 1:12.5



TYPE 1B-1000 TRENCH
COMBINED SERVICES
SCALE 1:12.5

LEGEND:

- (E) ADDITIONAL ELECTRICAL CONDUIT AS REQUIRED
- (C) ADDITIONAL COMMUNICATION CONDUIT AS REQUIRED
- (E) ELECTRICAL CONDUIT
- (C) COMMUNICATION CONDUIT
- (W) WATER MAIN
- (G) GAS LINE

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CITY OF GOLD COAST STANDARD SPECIFICATION ETS-SRE3 - CONDUITS AND PITS.
- REFER TO CITY PLAN POLICIES SC6.11 LAND DEVELOPMENT GUIDELINES - STANDARD SPECIFICATION: SC6.11.9.6 UNDERGROUND SERVICE CONDUITS SC6.11.9.4 EARTHWORKS.
- PROVIDE A CATEGORY A UNDERGROUND WIRING SYSTEM TYPE (A) COMPLYING WITH AS/NZS 3000 EXCEPT THE DEPTHS SHALL BE AS STATED IN NOTE 4 AND WITH FURTHER MECHANICAL PROTECTION AS DETAILED.
- MINIMUM DEPTHS TO TOP OF CONDUIT AS FOLLOWS:

	TRENCH (5)		BORE	
	MIN	MAX	MIN	MAX
OPEN AREAS	600	750	1000	1200
MINOR ROADWAY	750	1200	1500 *	2000
ARTERIAL ROADWAY	1200	2000	MIN *	2000

* WHERE THE LOCATION OF THE PIT AT THE END OF THE ROAD CROSSING IS RESTRICTED, THE BORE MAY RISE TO A MINIMUM DEPTH OF 1200 AT THE EDGE OF THE CARRIAGEWAY TO ALLOW CONDUITS TO ENTER THE SIDES OF THE PIT. PERMANENTLY MARK THE BORE LOCATION AT THE EDGE OF THE CARRIAGEWAY.

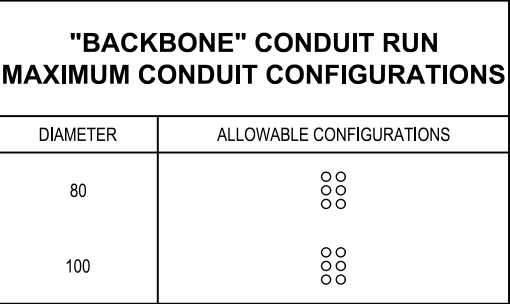
- FOR OPEN CUT TRENCH TO EXISTING ROADWAY REFER TO CoGC LAND DEVELOPMENT GUIDELINES STANDARD DRAWING 02-602 - ROAD CROSSING - TRENCH RESTORATION - FLEXIBLE PAVEMENTS.
- BEDDING SAND COMPACTED TO A DENSITY INDEX OF NOT LESS THAN 70%
- FILLING MATERIAL AS SPECIFIED IN SC6.11.9.4.9.1 COMPACTED TO 90% RELATIVE DRY DENSITY (RDD).
- REFER TO CoGC STANDARD DRAWING GCSD-ELE-02-002 AND 003.
- REFER TO RELEVANT SERVICES AUTHORITIES FOR REQUIRED CLEARANCES TO OTHER SERVICES (WATER, SEWER, GAS ETC)
- PROVIDE MARKER TAPE AS REQUIRED FOR FULL CONDUIT COVERAGE
- FOR SLOPING GROUNDS MAINTAIN 600mm FROM FFL TO TOP OF CONDUIT. MARKET TAPE REQUIREMENTS REMAIN. MECHANICAL PROTECTION AS APPLICABLE.
- DIMENSIONS ARE IN MILLIMETRES UNO.

FIBRE REINFORCED CONCRETE PROTECTION SLAB NOTES:

- FIBRE REINFORCED CONCRETE DETAILS AND NOTES SHOWN IN THIS DRAWINGS IS TO BE USED IN A NON STRUCTURAL APPLICATION.
- MAXIMUM DESIGN LIFE = 50 YEARS
- CONCRETE CURING SHALL BE IN ACCORDANCE WITH MRTS70 AND MRTS273.
- ASSUMED CONCRETE EXPOSE CLASSIFICATION B2.
- CONCRETE QUALITY TO AS 1379.
 - DO NOT USE ADMXTURES WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER).
 - CEMENT: TYPE 'GP' OR 'GB' TO AS 3972.
 - MAXIMUM SIZE OF COARSE AGGREGATE: 20mm.
 - CONCRETE SLUMP: 80mm UNO.
 - CONCRETE STRENGTH: S40MPa (UNO) AT 28 DAYS.
- VERIFY STRENGTH BY PRODUCTION CONTROL TESTING TO AS 1379.
- DO NOT PLACE CONCRETE UNDER THE FOLLOWING CONDITIONS:
 - WHEN THE SURROUNDING OUTDOOR TEMPERATURE EXCEEDS 30°C.
 - WHEN THE SURROUNDING WIND SPEED EXCEEDS 12 KNOTS (22km/h).
- DO NO PLACE CONCRETE WHEN THE CONCRETE TEMPERATURE AT THE TIME OF DELIVERY EXCEEDS 32°C.
- VIBRATE CONCRETE DURING PLACEMENT TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION.
- MIX NOVOMESH 950 THOROUGHLY WITH CONCRETE AT A DOSAGE RATE OF 2.5 BAGS PER m³ (I.E. 1 BAG = 2.3kg; 2.5 BAGS = 5.75kg/m³) OF CONCRETE. APPROVAL FOR SUBSTITUTION OF A DEEMED EQUIVALENT PRODUCT MAY BE GIVEN FOLLOWING A DESIGN BRANCH REVIEW.

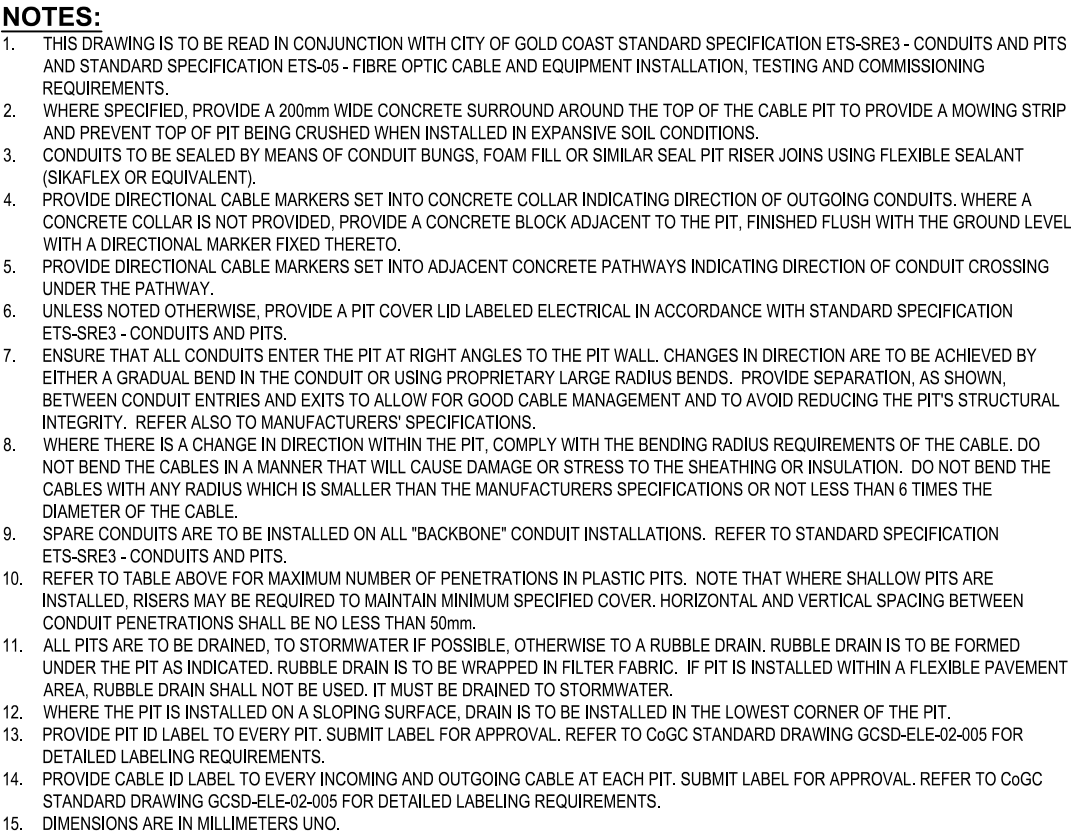
THIS DRAWING REQUIRES RPEQ REVIEW AND CERTIFICATION FOR PROJECT-SPECIFIC USE

<div></div> <div>City of Gold Coast PO Box 5042 Gold Coast MC 9726 P: 1300 GOLDCOAST</div>	THIS DRAWING IS NOT TO BE AMENDED WITHOUT APPROVAL BY ENGINEERING, DESIGN AND STANDARDS BRANCH				NOT TO SCALE USE FIGURED DIMENSIONS ONLY		STANDARD DRAWING		QR CODE	
					DRAWN BY CITY OF GOLD COAST		CONDUIT RETICULATION CONDUIT RETICULATION TRENCH DETAILS		STANDARD DRAWING No. GCSD-ELE-02-001	
					PASSED - MANAGER ENGINEERING STANDARDS AND SPECIFICATION				YEAR OF RELEASE 2025 EDITION	
					NAME: A. JAFARI					



- NUMBER OF CONDUITS HAVE BEEN LIMITED TO ENSURE SUSTAINABLE CABLE MANAGEMENT AND MAINTENANCE PRACTICES AND TO ENSURE STRUCTURAL RIGIDITY OF PITS.
- REFER ALSO TO MANUFACTURERS SPECIFICATIONS.
- LATERAL CONDUITS SHALL BE EVENLY DISTRIBUTED AROUND PIT'S CIRCUMFERENCE.

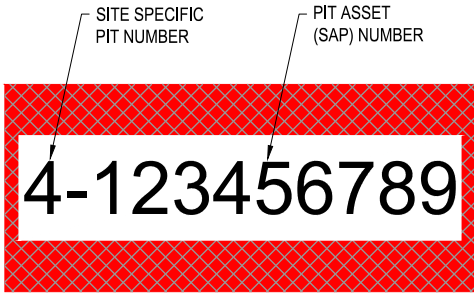
TABLE A



NOTE: THE CIVIL AND STRUCTURAL DESIGN SHOWN ON THIS DRAWING IS FOR REFERENCE ONLY. THE CONSTRUCTOR IS RESPONSIBLE FOR DEVELOPING THE FINAL CIVIL AND STRUCTURAL DESIGN, WHICH MUST BE CERTIFIED AND SIGNED OFF BY A REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ - STRUCTURAL). THE CERTIFIED DESIGN SHALL BE SUBMITTED TO COUNCIL FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.

THIS DRAWING REQUIRES RPEQ REVIEW AND CERTIFICATION FOR PROJECT-SPECIFIC USE

[illegible]



LABEL DETAILS INTERNAL PIT IDENTIFICATION

DYMO LABEL PLACED CENTRALLY ONTO REFLECTIVE TAPE STICKER, AFFIXED TO UPPER INSIDE WALL OF PIT.

BACKING STICKER:

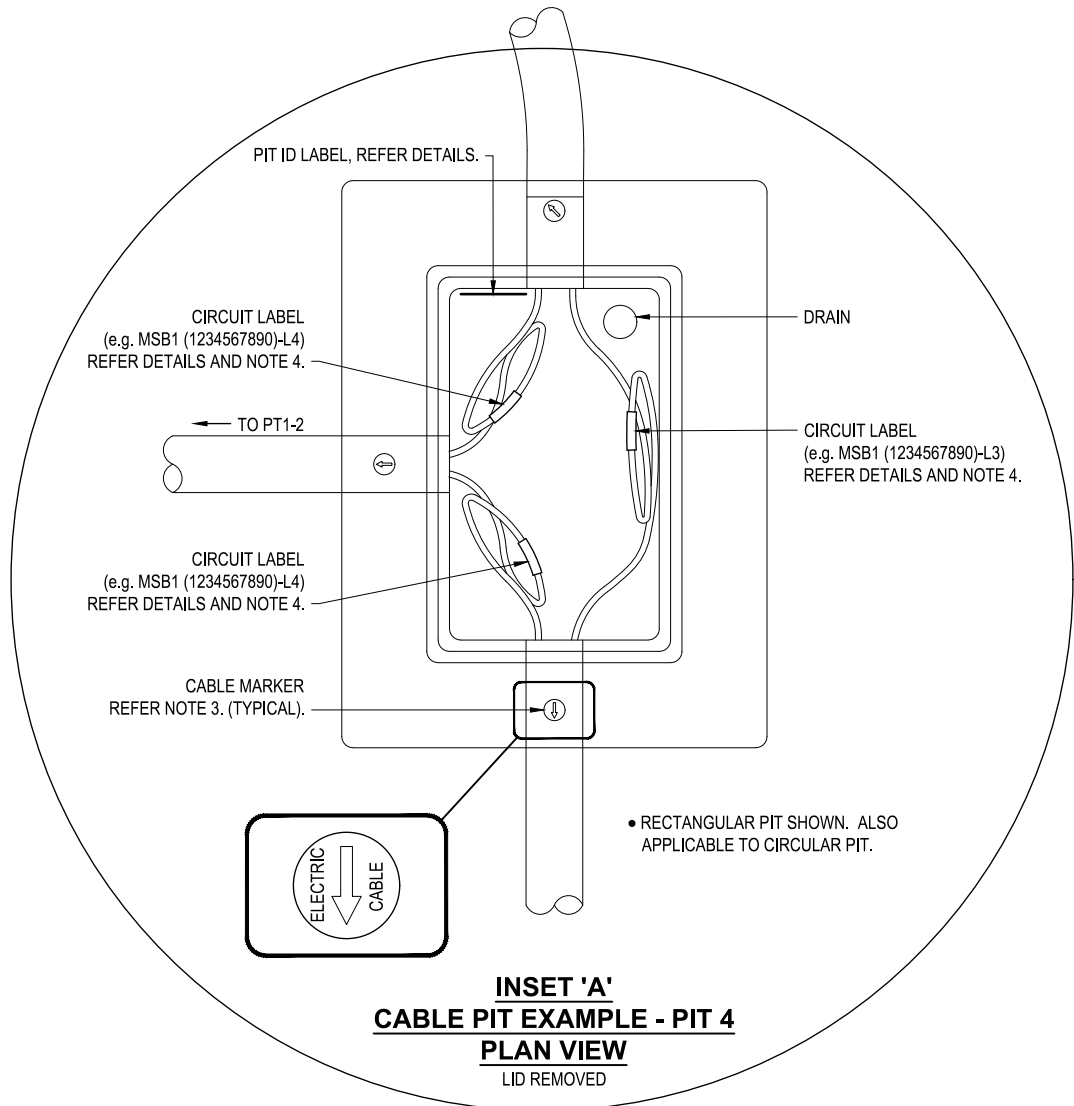
- REFLECTIVE, CLASS 1 "FLUORO ORANGE"
- 50mm WIDE ROLL, CUT TO LENGTH

ID LABEL:

ID NUMBER PRINTED ON PORTABLE DYMO LABELLER MODEL 4200 OR 5200.
LABEL MATERIAL TO BE 19mm POLYESTER, BLACK ON WHITE (PART #18484).

TEXT REQUIREMENT

- SIZE: 10-12mm
- STYLE: BOLD (B)
- CAPS: YES (Y)
- DIRECTION: HORIZONTAL



INSET 'A'
CABLE PIT EXAMPLE - PIT 4
PLAN VIEW
LID REMOVED

LABEL DETAILS INTERNAL CABLE IDENTIFICATION

DYMO LABEL AFFIXED TO PLASTIC CABLE TAG AND THEN TAG IS TO BE CABLE TIED TO CABLE AT ENTRY/EXIT INSIDE PIT.

ID LABEL

ID NUMBER PRINTED ON PORTABLE DYMO LABELLER MODEL 4200 OR 5200.
LABEL MATERIAL TO BE 9MM POLYESTER, BLACK ON WHITE (PART #18482).

TEXT SETTINGS:

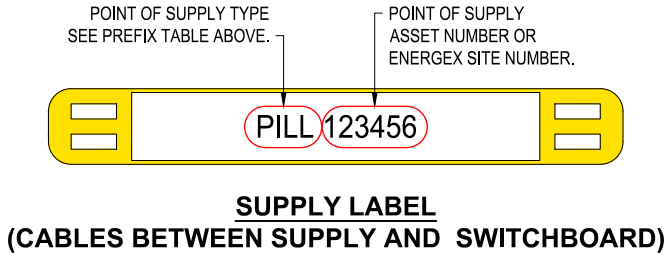
- SIZE: ≥ 3 mm
- STYLE: BOLD (B)
- CAPS: YES (Y)
- DIRECTION: HORIZONTAL

CABLE TAG

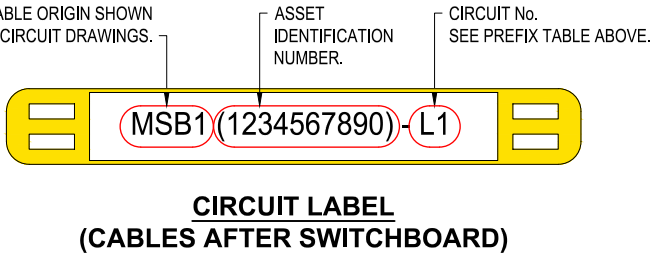
76MM X 10MM, YELLOW, PLASTIC CABLE TAG
(WIRE MARKERS AUSTRALIA, PART # SCC07610MY)

POINT OF SUPPLY PREFIXES	
SUPPLY TYPE	PREFIX
POLE	POLE
PILLAR	PILL
TRANSFORMER	TRAN
BUILDING/FACILITY BOARD	BLDG

CIRCUIT NAME PREFIXES	
CIRCUIT TYPE	PREFIX
LIGHTING	L#
POWER	P#
MIXED	M#
SUBMAINS	S#

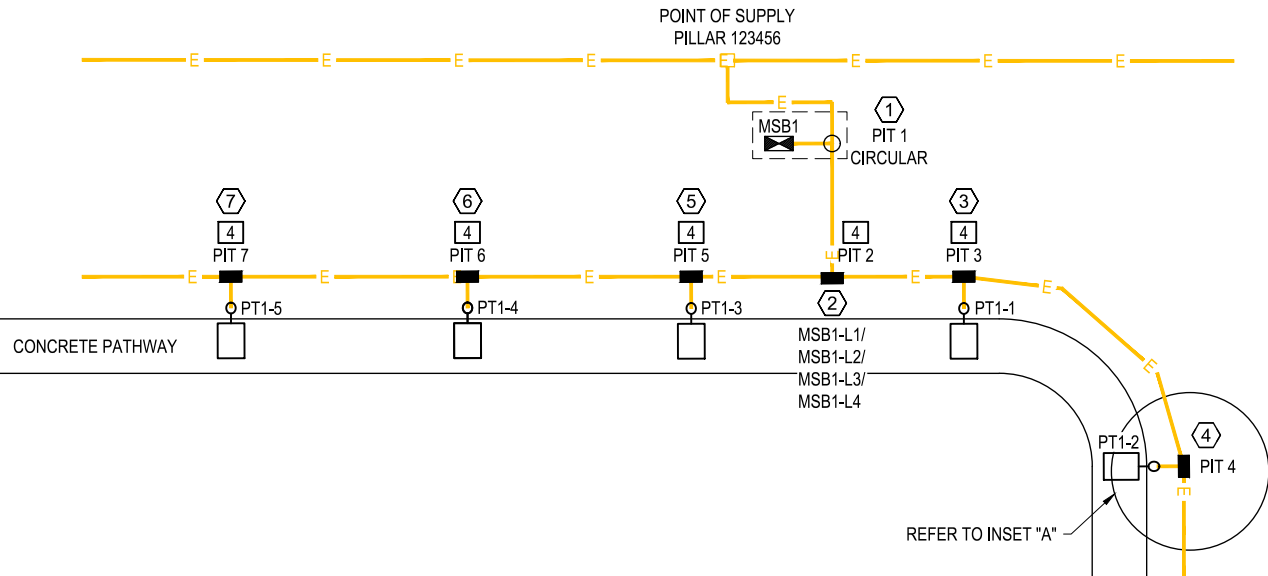


SUPPLY LABEL
(CABLES BETWEEN SUPPLY AND SWITCHBOARD)



CIRCUIT LABEL
(CABLES AFTER SWITCHBOARD)

NAMING CONVENTION - EXAMPLE



PIT AND CABLE LABEL SCHEDULE

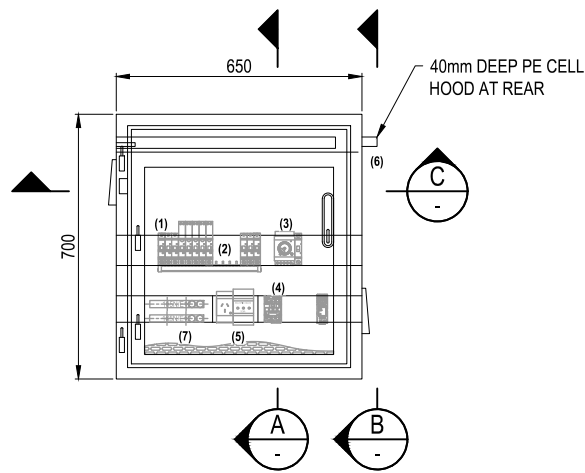
STATION IDENTIFIER	PIT ID	PIT LABEL	SUPPLY/ CIRCUIT LABEL
①	PIT 1	1-1234567891	PILL 123456 MSB1 (1234567890)-L1 MSB1 (1234567890)-L2 MSB1 (1234567890)-L3 MSB1 (1234567890)-L4
②	PIT 2	2-1234567892	MSB1 (1234567890)-L1 MSB1 (1234567890)-L2 MSB1 (1234567890)-L3 MSB1 (1234567890)-L4
③	PIT 3	3-1234567893	MSB1 (1234567890)-L3 MSB1 (1234567890)-L4 MSB1 (1234567890)-L3
④	PIT 4	4-1234567894	MSB1 (1234567890)-L4 MSB1 (1234567890)-L3 MSB1 (1234567890)-L4
⑤	PIT 5	5-1234567895	MSB1 (1234567890)-L2 MSB1 (1234567890)-L1 MSB1 (1234567890)-L2
⑥	PIT 6	6-1234567896	MSB1 (1234567890)-L1 MSB1 (1234567890)-L2 MSB1 (1234567890)-L1
⑦	PIT 7	7-1234567897	MSB1 (1234567890)-L2 MSB1 (1234567890)-L1 MSB1 (1234567890)-L2

NOTES:

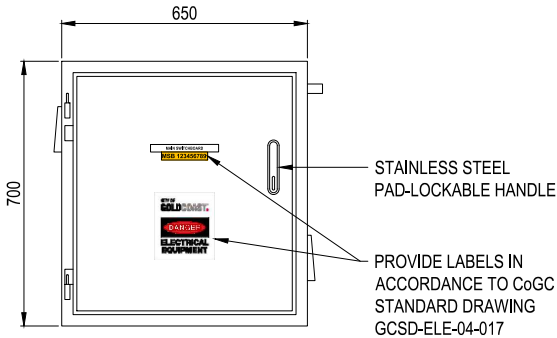
- UNIQUE PIT IDENTIFICATION NUMBERS ARE TO BE ASSIGNED TO EACH PIT IN LINE WITH THE RELEVANT ASSET SCHEDULES. ASSET IDENTIFICATION NUMBERS ARE TO BE PROVIDED BY A NOMINATED CITY OF GOLD COAST ASSET CUSTODIAN.
- ENSURE THAT PIT SURFACES ARE CLEAN AND DRY WHERE LABELS ARE TO BE AFFIXED.
- PROVIDE DIRECTIONAL COMMS OR ELECTRICAL CABLE MARKERS SET INTO CONCRETE PATHWAY OR CONCRETE SURROUND, INDICATING DIRECTION OF CONDUIT. REFER TO SPEC FOR CABLE MARKERS.
- PROVIDE CABLE IDENTIFICATION LABELS IN ALL PITS. CABLES BETWEEN THE POINT OF SUPPLY AND THE MAIN SWITCH BOARD WILL HAVE A SUPPLY LABEL. CABLES FROM THE SWITCHBOARD WILL HAVE A CIRCUIT LABEL. SEE DETAILS.
- PROVIDE SUFFICIENT LOOP IN PITS TO BE ABLE TO LIFT LOOP AND READ THE LABEL. CABLE IDENTIFIER TAGS SHOULD BE LOCATED CLOSE TO THE CENTRE OF THE CABLE LOOP.
- CIRCUIT NUMBERS ARE TO BE SHOWN IN A CIRCUIT SCHEDULE IN THE SWITCHBOARD.
- FOR COMMUNICATIONS PIT LABELING REQUIREMENTS, REFER TO CITY OF GOLD COAST, DIGITAL CITIES SPECIFICATION ETS-05: FIBRE OPTIC CABLE AND EQUIPMENT INSTALLATION, TESTING AND COMMISSIONING REQUIREMENTS.

THIS DRAWING REQUIRES RPEQ REVIEW AND CERTIFICATION FOR PROJECT-SPECIFIC USE

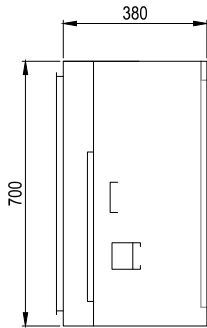
<div>CITY OF GOLDCOAST.</div> <div>City of Gold Coast PO Box 5042 Gold Coast MC 9726 P: 1300 GOLDCOAST</div>	THIS DRAWING IS NOT TO BE AMENDED WITHOUT APPROVAL BY ENGINEERING, DESIGN AND STANDARDS BRANCH				NOT TO SCALE USE FIGURED DIMENSIONS ONLY		STANDARD DRAWING		QR CODE	
					DRAWN BY CITY OF GOLD COAST		CONDUIT RETICULATION LABELLING REQUIREMENTS IN ELECTRICAL PITS		STANDARD DRAWING No. GCSD-ELE-02-005	
					PASSED - MANAGER ENGINEERING STANDARDS AND SPECIFICATION				YEAR OF RELEASE 2025 EDITION	
					NAME: A. JAFARI					



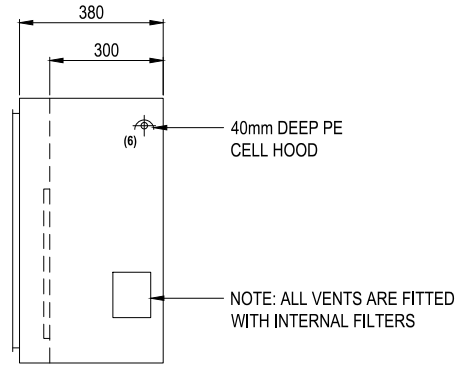
INTERNAL ELEVATION
SCALE 1:10



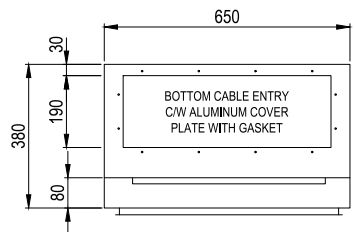
DOOR ELEVATION
SCALE 1:10



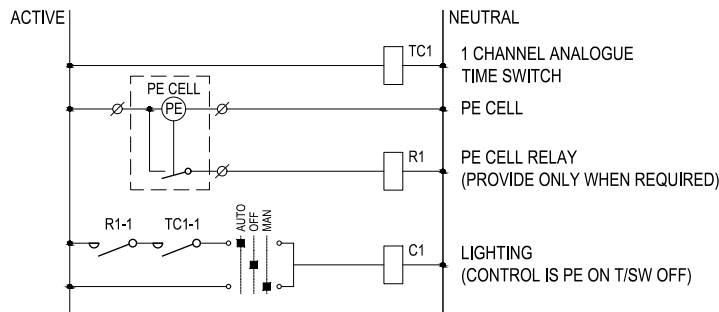
SECTION A
SCALE 1:10



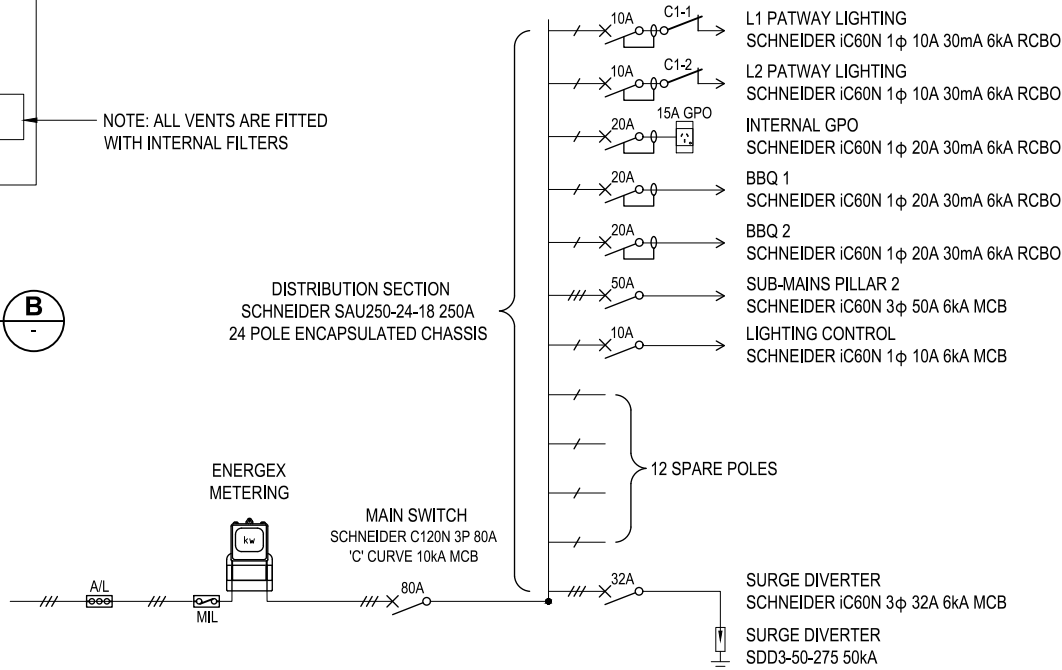
SECTION B
SCALE 1:10



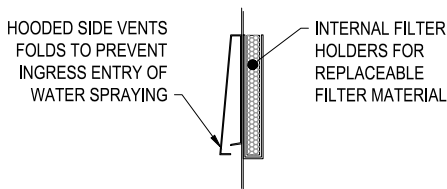
SECTION C
SCALE 1:10



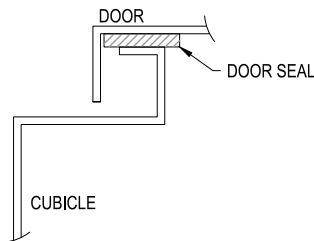
LIGHTING CONTROL
NTS



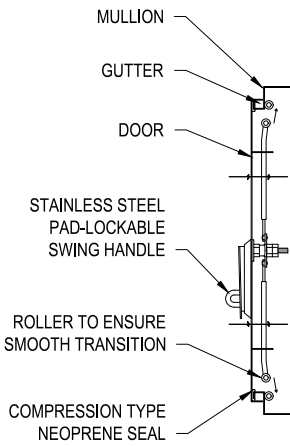
SCHEMATIC
NTS



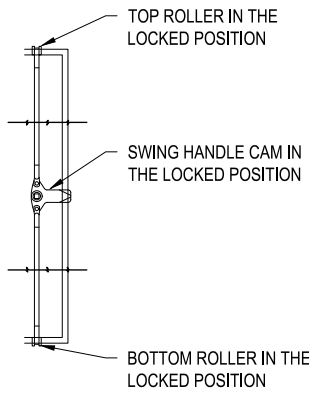
SIDE VENTS SECTION
NTS



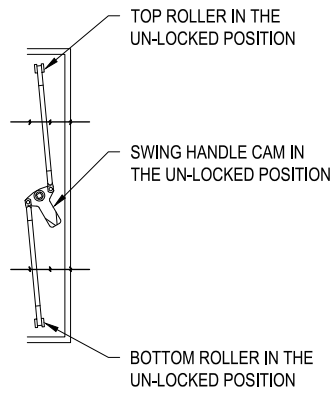
WEATHERPROOF DOOR SEAL DETAIL
NTS



SIDE VIEW



FRONT VIEW CAM ENGAGED



FRONT VIEW CAM DISENGAGED

3 POINT LOCKING DETAIL
NTS

LEGEND	
1	MAIN SWITCH TERASAKI DIN-T10363C 1P 63A 'C' CURVE 6kA MCB.
2	DISTRIBUTION SECTION. 24 POLES 1 PHASE BUS COMB. 80A FOR DIN-T 6kA MCB's & RCBO's. C/W 18 HOLE 165A EARTH AND NEUTRAL LINKS, TWO M10 STUDS AND TWO SCREW TUNNEL TERMINALS FOR UP TO 16mm ² CABLES.
3	LIGHTING CONTROL SECTION. SINGLE CHANNEL ANALOGUE TIME SW (HAGER OR APPROVED EQUIVALENT), MAN-OFF-AUTO SWITCH. + 2 SPARE POLE SPACE.
4	LIGHTING CONTROL SECTION. FITTED PE CELL RELAY; L1 LIGHTING CONTACTOR SCHNEIDER LCD1 12 12A AC3 240V AC CONTROL.
5	1 x 1PH 15A 3 PIN SOCKET OUTLET. 1 x 3 PHASE SURGE DIVERTER NOVARIS SDD3-50-275, 50kA.
6	PHOTO ELECTRIC CELL SW. EYE 101080 500W 200-240V (INSTALLED UNDER SIDE MOUNTED HOOD).
7	MAIN NEUTRAL AND EARTH LINKS 12 HOLE 165A, TWO M10 STUDS AND TWO SCREW TUNNEL TERMINALS FOR UP TO 16mm ² CABLES. C/W CABLE MEN CONNECTION.

CONSTRUCTION NOTES:

SPECIFICATION
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CITY OF GOLD COAST STANDARD SPECIFICATION ETS-SR6 - LV SWITCHBOARDS.

MATERIAL GAUGE:
DOORS AND EXTERNAL CONSTRUCTED FROM 1.6mm GRADE 316 STAINLESS STEEL WITH ESCUTCHEONS AND INTERNALS CONSTRUCTED FROM 1.6mm GRADE 316 STAINLESS STEEL.

DOORS:
DISH TYPE FITTED WITH CHROME PLATED LIFT OFF PINTLE HINGES AND STAINLESS STEEL PADLOCKABLE SWING HANDLES AND SEALED WITH A NEOPRENE GASKET.
3 POINT LOCKING ON DOOR. PROVIDE POCKET ON INSIDE OF DOOR TO ACCOMMODATE A4 SCHEDULE.

ESCUTCHEON:
ESCUTCHEON CUTOUTS TO BE AS SHOWN. ESCUTCHEON IS DISH TYPE FITTED WITH CHROME PLATED LIFT OFF PINTLE HINGES AND CHROME PLATED SPANNER LOCKS.

DOCUMENT AND SCHEDULE HOLDER:
METALLIC DOCUMENT HOLDER 25mm(D) x 450mm(W) x 300mm(H) ON LOWER HALF OF DISTRIBUTION BOARD DOOR.

FINISH:
EXTERNAL OF CABINET & ESCUTCHEON POLISH TO A No.4 LINISH FINISH.

LABELLING:
ALL CIRCUIT BREAKER POLES IDENTIFIED VIA RED IPA No. STUDS AND CORRESPONDING LEGEND CARDS. ALL OTHER LABELLING VIA. ENGRAVED PVC LAMINATE AS APPROPRIATE. FRONT DOOR LABELS ARE STAINLESS STEEL LASER PRINTED SECURED TO DOOR INTERNALLY.

VENTS:
FIT 4 FILTERED HOODED VENTS ON EACH SIDE AS SHOWN.

WELDING:
ALL JOINTS ARE TO BE FULLY WELDED.

EARTHING:
FIT EARTH STUDS ON DOOR AND ESCUTCHEON WITH MATCHING STUDS ON BODY.

AS/NZS61439.1 DESIGN VERIFICATION:

- PROVIDE DESIGN VERIFICATION AS PER TABLE D.1 - LIST OF DESIGN VERIFICATION TO BE PERFORMED.
- TEST REPORT No.s TO BE SUPPLIED. TO BE TESTED OR VERIFIED BY REFERENCE TO TESTED DESIGN.
- TEMPERATURE RISE TEST REPORT No.s TO BE SUPPLIED.

NOTE:
1. DIMENSIONS ARE IN MILLIMETRES UNO.

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DRAWING FOR INFORMATION AND PRICING PURPOSES ONLY.
SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR MANUFACTURING.

<div>CITY OF GOLDCOAST.</div> <div>City of Gold Coast PO Box 5042 Gold Coast MC 9726 P: 1300 GOLDCOAST</div>	THIS DRAWING IS NOT TO BE AMENDED WITHOUT APPROVAL BY ENGINEERING, DESIGN AND STANDARDS BRANCH				NOT TO SCALE USE FIGURED DIMENSIONS ONLY		STANDARD DRAWING		QR CODE	
					DRAWN BY CITY OF GOLD COAST		SWITCHBOARDS WALL-MOUNTED DISTRIBUTION BOARD GENERAL ARRANGEMENT 3 PHASE NO METER		STANDARD DRAWING No.	
									GCSD-ELE-04-012	
					PASSED - MANAGER ENGINEERING STANDARDS AND SPECIFICATION				YEAR OF RELEASE	
					NAME: A. JAFARI					

MSB 123456789 DB 123456789

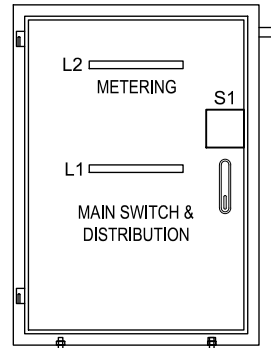
BOARD TYPE PREFIX. ASSET IDENTIFICATION NUMBER

ID LABEL.
ID NUMBER PRINTED ON PORTABLE DYMO
LABELLER MODEL 4200 OR 5200.
LABEL MATERIAL TO BE 19mm POLYESTER,
BLACK ON CLEAR (PART #622290).

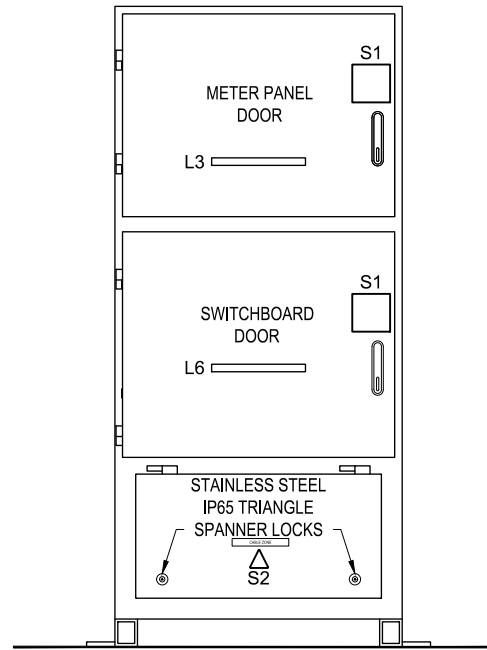
BACKING STICKER:

- REFLECTIVE, CLASS 2 YELLOW
- 25mm WIDE ROLL, CUT TO LENGTH

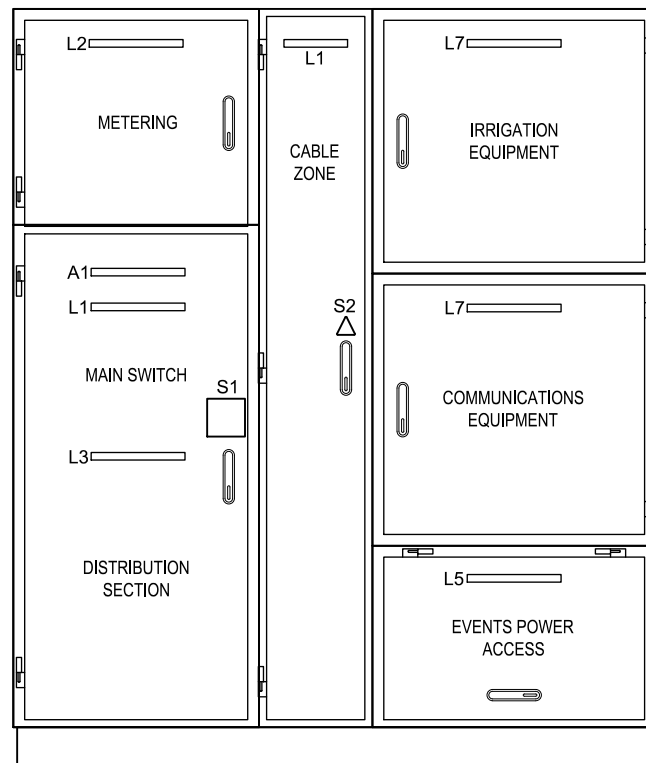
PREFIX	DESCRIPTION
MSB	MAIN SWITCHBOARD, CONTAINING THE SITE AUTHORITY METERING AND CIRCUIT PROTECTIVE DEVICES.
DB	DISTRIBUTION BOARD, SUB BOARD, LOAD CENTRE, CONTAINING CIRCUIT PROTECTIVE DEVICES AND/OR CONTROL (INCL. PILLAR BOXES).
MCC	MOTOR CONTROL CUBICLE, THESE HOUSE THE CONTROL & PROTECTION CIRCUITRY FOR PUMPS, MOTORS AND PROCESS SYSTEMS. (POOL PUMPS)
LCP	LIGHTING CONTROL PANEL, THESE HOUSE THE CONTROL & PROTECTION CIRCUITRY FOR SPORTS FIELDS AND LARGER OPEN SPACE AREAS.
JB	JUNCTIONS BOX, ENCLOSURE CONTAINING ANY ELECTRICAL TERMINATIONS, (J-BELLS/BOTTLE KITS, FIELD WIRING, ETC)
EN	EVENT NODE, CONTAINING POWER OUTLET CONNECTIONS AND/OR CIRCUIT PROTECTIVE DEVICES FOR EVENT USE.
SP	SERVICE PILLAR, THESE ARE WITHIN TOURIST PARK OR EVENT AREAS FOR THE PURPOSE OF SUPPLY POWER/WATER/COMS FOR TEMPORARY PUBLIC ACCOMMODATION.
DL	DECORATIVE LIGHTING, NORMALLY PILLARS OR ENCLOSURES CONTAINING CONTROLS AND/OR CIRCUIT PROTECTIVE DEVICES FOR DECORATIVE LIGHTING INSTALLATIONS.
PS	PUMP STATIONS, THESE CAN BE POTABLE, STORM, SUMP, IRRIGATION OR SEWER PUMP CONTROL BOARDS.



TYPICAL SMALL BOARD



TYPICAL MEDIUM BOARD



TYPICAL LARGE / MIXED-USE BOARD

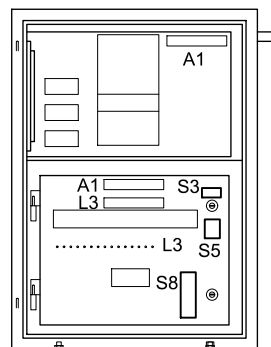
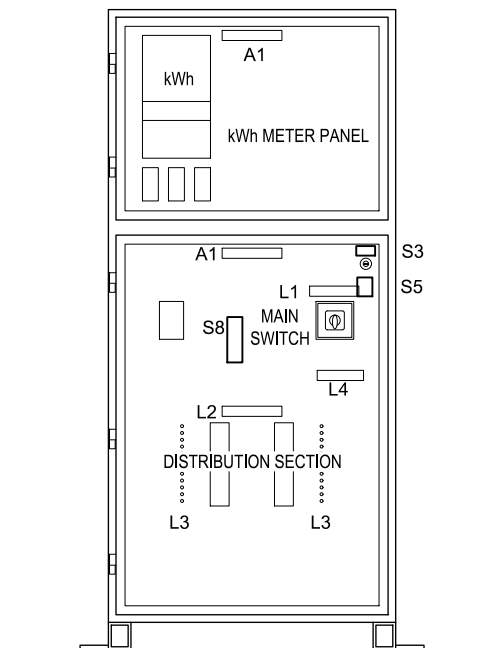
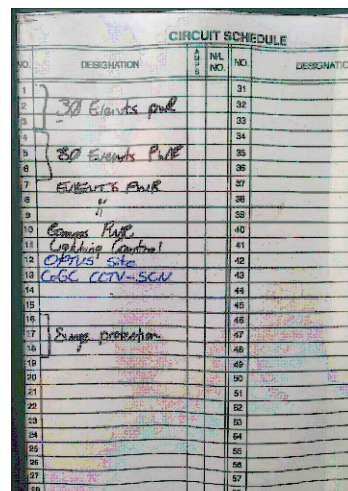
ID	DESCRIPTION	COLOUR	FONT
A1	IDENTIFICATION LABEL	REFER SWITCHBOARD IDENTIFICATION LABEL DETAILS ABOVE	
L1	MAIN SWITCHBOARD	STAINLESS STEEL WITH ENGRAVED, INFILLED PRINT OR LASER PRINTED - BLACK LETTERS	10 mm ARIAL FONT
L2	METERING OR SUPPLY AUTHORITY METERS	STAINLESS STEEL WITH ENGRAVED, INFILLED PRINT OR LASER PRINTED -BLACK LETTERS	10 mm ARIAL FONT
L3	DISTRIBUTION SECTION	STAINLESS STEEL WITH ENGRAVED, INFILLED PRINT OR LASER PRINTED -BLACK LETTERS	10 mm ARIAL FONT
L4	CoGC AND ENERGEX ACCESS	STAINLESS STEEL WITH ENGRAVED, INFILLED PRINT OR LASER PRINTED -BLACK LETTERS	10 mm ARIAL FONT
L5	EVENTS POWER	STAINLESS STEEL WITH ENGRAVED, INFILLED PRINT OR LASER PRINTED -BLACK LETTERS	10 mm ARIAL FONT
L6	CABLE ZONE	STAINLESS STEEL WITH ENGRAVED, INFILLED PRINT OR LASER PRINTED -BLACK LETTERS	10 mm ARIAL FONT
L7	OTHER LABELS e.g. IRRIGATION SECTION	STAINLESS STEEL WITH ENGRAVED, INFILLED PRINT OR LASER PRINTED -BLACK LETTERS	10 mm ARIAL FONT

ID	DESCRIPTION	SIZE	MATERIAL
S1		100 (W) x 100 (H)	VINYL STICKER
S2		50 (W) x 50 (H)	VINYL STICKER

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CoGC STANDARD DRAWING GCSD-ELE-04-018 AND STANDARD SPECIFICATION ETS-SR66 - LV SWITCHBOARDS.
2. SWITCHBOARD IDENTIFICATION LABEL IS TO BE AN ASSET IDENTIFICATION NUMBER ASSIGNED BY THE CITY OF GOLD COAST ASSET CUSTODIAN.
3. ALL EXTERNAL AND INTERNAL LABELS ARE TO BE INSTALLED PRIOR TO PRACTICAL COMPLETION.
4. SAFETY STICKERS CONTAINING THE CITY OF GOLD COAST BRANDING CAN BE OBTAINED BY THE CITY OF GOLD COAST'S NOMINATED ASSET CUSTODIAN'S REPRESENTATIVE.
5. LABELS SHOWN ON THIS DRAWING ARE EXAMPLES AND MAY VARY TO SUIT PARTICULAR SWITCHBOARD PURPOSE, AS REQUIRED.
6. FOR TRAFFIC SIGNAL AND ITS EQUIPMENT CABINET REQUIREMENTS, REFER TO DEPARTMENT OF TRANSPORT AND MAIN ROADS SPECIFICATIONS AND DRAWINGS.
7. ALL LABELS WITH CITY OF GOLD COAST LOGOS WILL BE SUPPLIED BY THE RELEVANT CoGC ASSET CUSTODIAN.
8. ALL DIMENSIONS ARE IN MILLIMETERS UNO.

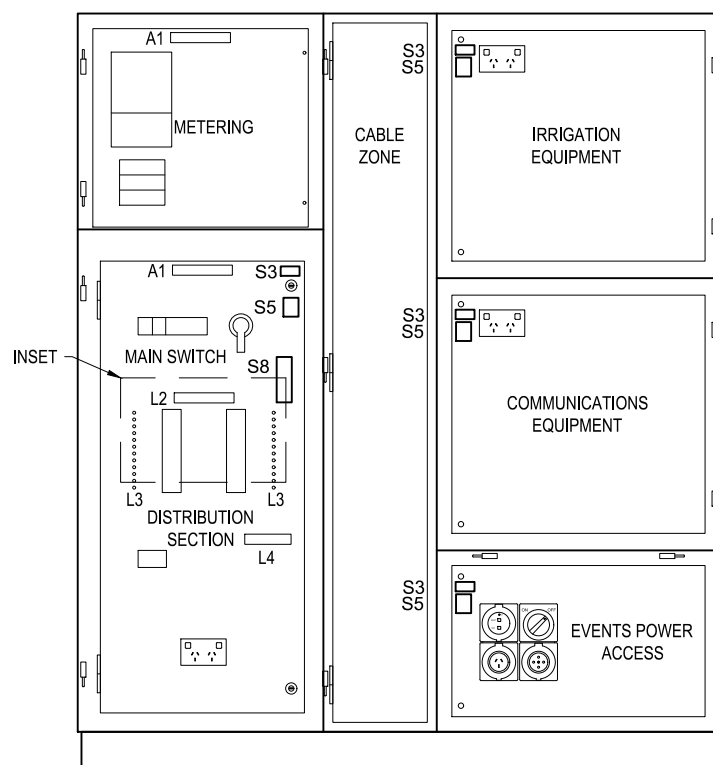
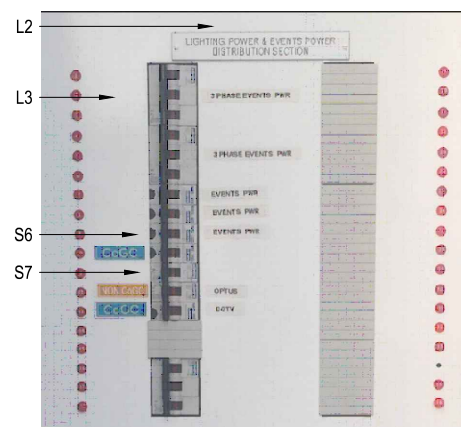
THIS DRAWING REQUIRES RPEQ REVIEW AND CERTIFICATION FOR PROJECT-SPECIFIC USE

<div><div>CITY OF GOLD COAST.</div><div>City of Gold Coast PO Box 5042 Gold Coast MC 9726 P: 1300 GOLD COAST</div></div>	THIS DRAWING IS NOT TO BE AMENDED WITHOUT APPROVAL BY ENGINEERING, DESIGN AND STANDARDS BRANCH				NOT TO SCALE USE FIGURED DIMENSIONS ONLY		STANDARD DRAWING		QR CODE	
					DRAWN BY	CITY OF GOLD COAST	SWITCHBOARDS EXTERNAL LABELLING REQUIREMENTS		STANDARD DRAWING No. GCS-D-ELE-04-017	
					PASSED - MANAGER ENGINEERING STANDARDS AND SPECIFICATION					
					NAME: A. JAFARI					



ID	DESCRIPTION	COLOUR	FONT
A1	IDENTIFICATION LABEL	REFER SWITCHBOARD IDENTIFICATION LABEL DETAILS ON DRAWING No. GCSD-ELE-04-019.	
L1	MAIN SWITCH	WHITE TRAFFOLYTE WITH BLACK LETTERS	5 mm ARIAL FONT
L2	DISTRIBUTION SECTION	WHITE TRAFFOLYTE WITH BLACK LETTERS	5 mm ARIAL FONT
L3	DISTRIBUTION CIRCUIT NUMBERS	RED TRAFFOLYTE WITH WHITE LETTERS	5 mm ARIAL FONT
L4	MEN LINK BEHIND	WHITE TRAFFOLYTE WITH BLACK LETTERS	5 mm ARIAL FONT
L5	OTHER SECTION LABELS	WHITE TRAFFOLYTE WITH BLACK LETTERS	5 mm ARIAL FONT

INTERNAL SAFETY LABELS			
ID	DESCRIPTION	SIZE	MATERIAL
S3		50 (W) x 25 (H)	VINYL STICKER
S4		50 (W) x 25 (H)	VINYL STICKER
S5		40 (W) x 50 (H)	VINYL STICKER
S6		50 (W) x 14 (H)	VINYL STICKER
S7		50 (W) x 14 (H)	VINYL STICKER
S8		50 (W) x 120 (H)	VINYL STICKER



- NOTES:**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CoGC STANDARD DRAWING GCSD-ELE-04-019 AND STANDARD SPECIFICATION ETS-SRE6 - LV SWITCHBOARDS.
 2. SWITCHBOARD IDENTIFICATION LABEL IS TO BE AN ASSET NUMBER ASSIGNED BY THE CITY OF GOLD COAST ASSET CUSTODIAN.
 3. ALL EXTERNAL AND INTERNAL LABELS ARE TO BE INSTALLED PRIOR TO PRACTICAL COMPLETION.
 4. SAFETY STICKERS CONTAINING THE CITY OF GOLD COAST BRANDING CAN BE OBTAINED BY THE CITY OF GOLD COAST'S NOMINATED ASSET CUSTODIAN'S REPRESENTATIVE.
 5. LABELS SHOWN ON THIS DRAWING ARE EXAMPLES AND MAY VARY TO SUIT PARTICULAR SWITCHBOARD PURPOSE, AS REQUIRED.
 6. FOR TRAFFIC SIGNAL AND ITS EQUIPMENT CABINET REQUIREMENTS, REFER TO DEPARTMENT OF TRANSPORT AND MAIN ROADS SPECIFICATIONS AND DRAWINGS.
 7. ALL DIMENSIONS ARE IN MILLIMETERS UNO.

**THIS DRAWING REQUIRES RPEQ REVIEW AND
CERTIFICATION FOR PROJECT-SPECIFIC USE**

<div><div>CITY OF GOLDCOAST.</div><div>City of Gold Coast PO Box 5042 Gold Coast MC 9726 P: 1300 GOLDCOAST</div></div>	THIS DRAWING IS NOT TO BE AMENDED WITHOUT APPROVAL BY ENGINEERING, DESIGN AND STANDARDS BRANCH				NOT TO SCALE USE FIGURED DIMENSIONS ONLY		STANDARD DRAWING		QR CODE	
					DRAWN BY CITY OF GOLD COAST		SWITCHBOARDS INTERNAL LABELLING REQUIREMENTS		STANDARD DRAWING No. GCS-D-ELE-04-018	
					PASSED - MANAGER ENGINEERING STANDARDS AND SPECIFICATION					
					NAME: A. JAFARI					