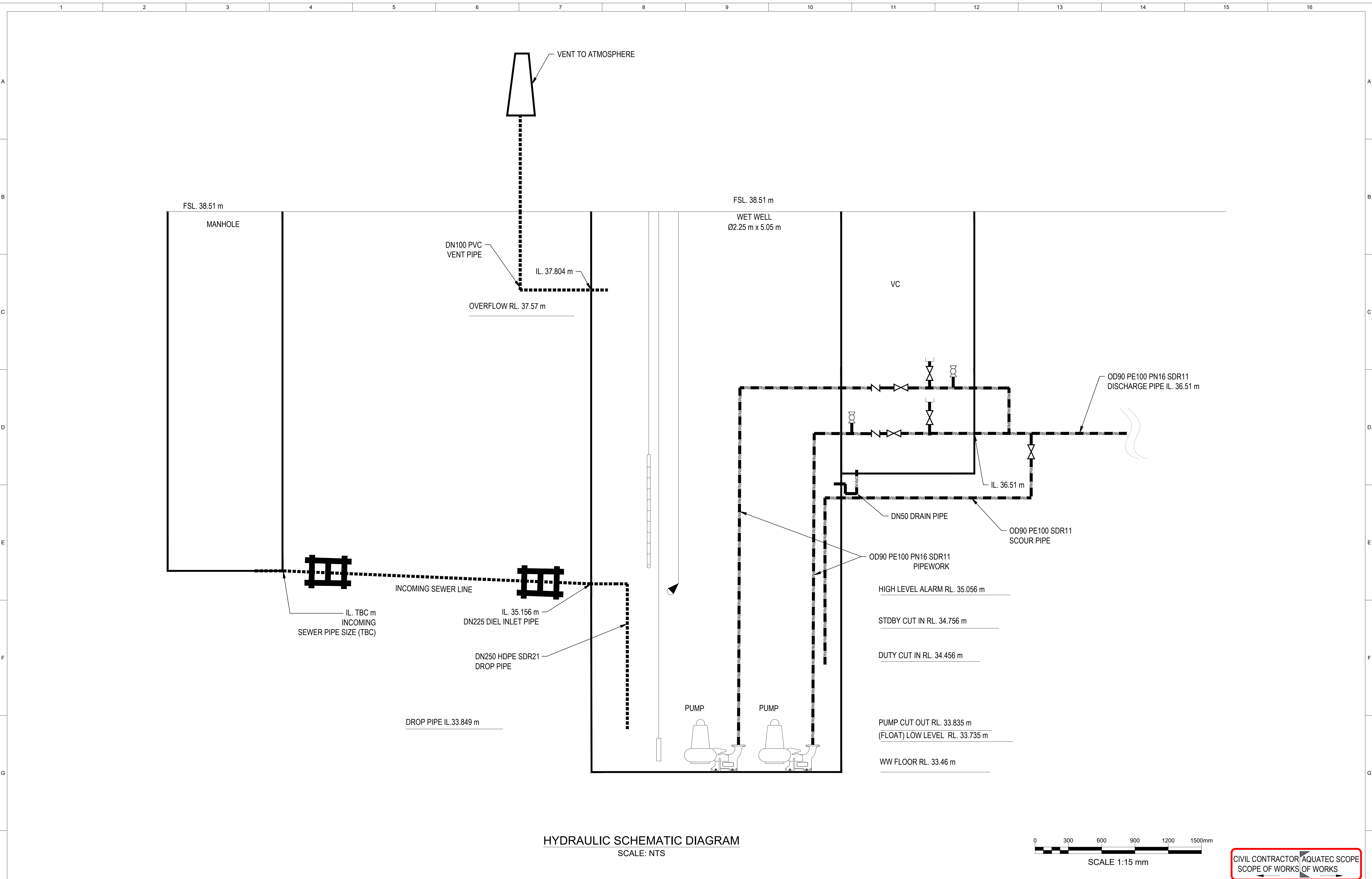


GOLD COAST CITY COUNCIL

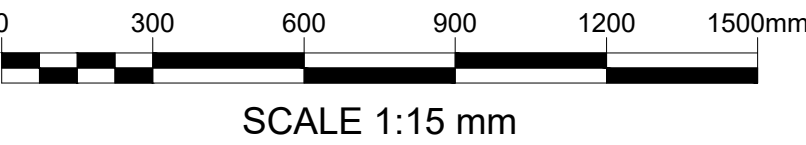
COURTNEY DRIVE STAGE 2

SEWAGE PUMP STATION

DRAWING LIST			
DRAWING NUMBER	REV DATE	REV	DESCRIPTION
20333-10000	16/04/24	A	TITLE & INDEX
20333-10001	16/04/24	A	SITE LAYOUT
20333-40001	16/04/24	A	HYDRAULIC SCHEMATIC DIAGRAM
20333-40002	16/04/24	A	P&ID
20333-10002	16/04/24	A	SPS - PLAN
20333-10003	16/04/24	A	SPS - SECTION
20333-10004	16/04/24	A	MISCELLANEOUS DETAILS
20333-10005	16/04/24	A	SPS - BILL OF MATERIALS
20333-30000	16/04/24	A	WET WELL WITH VALVE CHAMBER - STANDARD NOTES
20333-30001	16/04/24	A	SPS - REINFORCEMENT DETAILS
20333-20001	16/04/24	A	SPS - BACKFILL DETAILS



HYDRAULIC SCHEMATIC DIAGRAM
SCALE: NTS



CIVIL CONTRACTOR Aquatec
SCOPE OF WORKS SCOPE OF WORKS

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Drawn RR Checked JG Approved JG Scale AS SHOWN This Drawing must not be used for Construction unless signed as Approved Original Size A1										Client GOLD COAST CITY COUNCIL Project COURTNEY DRIVE STAGE 2 JOB SEWER PUMP STATION Title HYDRAULIC SCHEMATIC DIAGRAM OP20333 Project Number ISSUED FOR REVIEW (IFR01) Customer Submission Status 20333 -40001 Drawing Number A 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
NOTES:

1. PUMP START/STOP NORMALLY CONTROLLED BY RTU USING LEVEL TRANSMITTER LT 01.
2. UPON HIGH LEVEL (LS 41-1), PUMP START/STOP AUTOMATIC CONTROL IS BYPASSED BY HARD WIRED EMERGENCY/BACK-UP PUMP STARTER CIRCUIT ON MULTITRODE LEVEL CONTROL UNIT.
3. ALL INSTRUMENTS AND ALARM RL'S SHALL BE CONFIRMED BY SEQ-SP

SWITCHBOARD

PUMPS

EQUIPMENT	DRIVE	RATED
PUMP 1	VSD	4.3 kW
PUMP 2	VSD	4.3 kW

MANHOLE

VENT TO ATMOSPHERE

DN225-PVC

EMERGENCY
PUMP
STARTER
PROBE

LE
01

LS
42

LS
41

LT
01

PRIMARY
LEVEL
TRANSMITTER

PUMP WET WELL

P&ID

SCALE: NTS

MECHANICAL EQUIPMENT LEGEND	
SYMBOL	DESCRIPTION
	SLUICE VALVE
	NON-RETURN VALVE
	KNIFE GATE VALVE
	ELECTRIC MOTOR
	PUMP
	TAPPING POINT

LEVEL CONTROLS			
TAG	LEVEL	RL (m)	COMMENTS
LT1	LSL	33.835	ALL STOP
	LSM	34.456	DUTY START
	LSH	34.756	STAND BY START
LSH 102	LSHH	35.056	HIGH ALARM
LS42	1	37.57	OVERFLOW ALARM
LS41	1	TBC BY SEQ-SP	EMERGENCY PUMP START/PUMP ALARM
	2	TBC BY SEQ-SP	
	3	TBC BY SEQ-SP	EMERGENCY PUMP STOP

ELECTRICAL EQUIPMENT LEGEND	
SYMBOL	DESCRIPTION
	HARDWIRED CONNECTION
	COMMUNICATION/SOFTWARE CONNECTION
	DISCRETE INSTRUMENT - FIELD MOUNTED/OPERATOR NOT ACCESSIBLE
	DISCRETE INSTRUMENT - OPERATOR ACCESSIBLE
	TRTU - OPERATOR NOT ACCESSIBLE
	LOGIC INTERLOCK (SOFTWARE OR HARDWARE)
	VARIABLE SPEED DRIVE
	SOFT STARTER
	MAGNETIC FLOWMETER

CIVIL CONTRACTOR AQUATEC SCOPE OF WORKS

PUMP '1' INSTRUMENTATION TAG		
TAG	LEVEL	DESCRIPTION
094A	TE	STATOR HIGH TEMP.
094B	TE	PUMP BEARING HIGH TEMP.
PUMP '2' INSTRUMENTATION TAG		
094C	TE	STATOR HIGH TEMP.
094D	TE	PUMP BEARING HIGH TEMP.

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AQUATEC



Drawn

RR

Checked

JG

Approved

JG

Scale

AS SHOWN

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Original Size

A1

Client GOLD COAST CITY COUNCIL

Project COURTNEY DRIVE STAGE 2

JOB SEWER PUMP STATION

Title P&ID

OP20333

Project Number

ISSUED FOR REVIEW (IFR01)

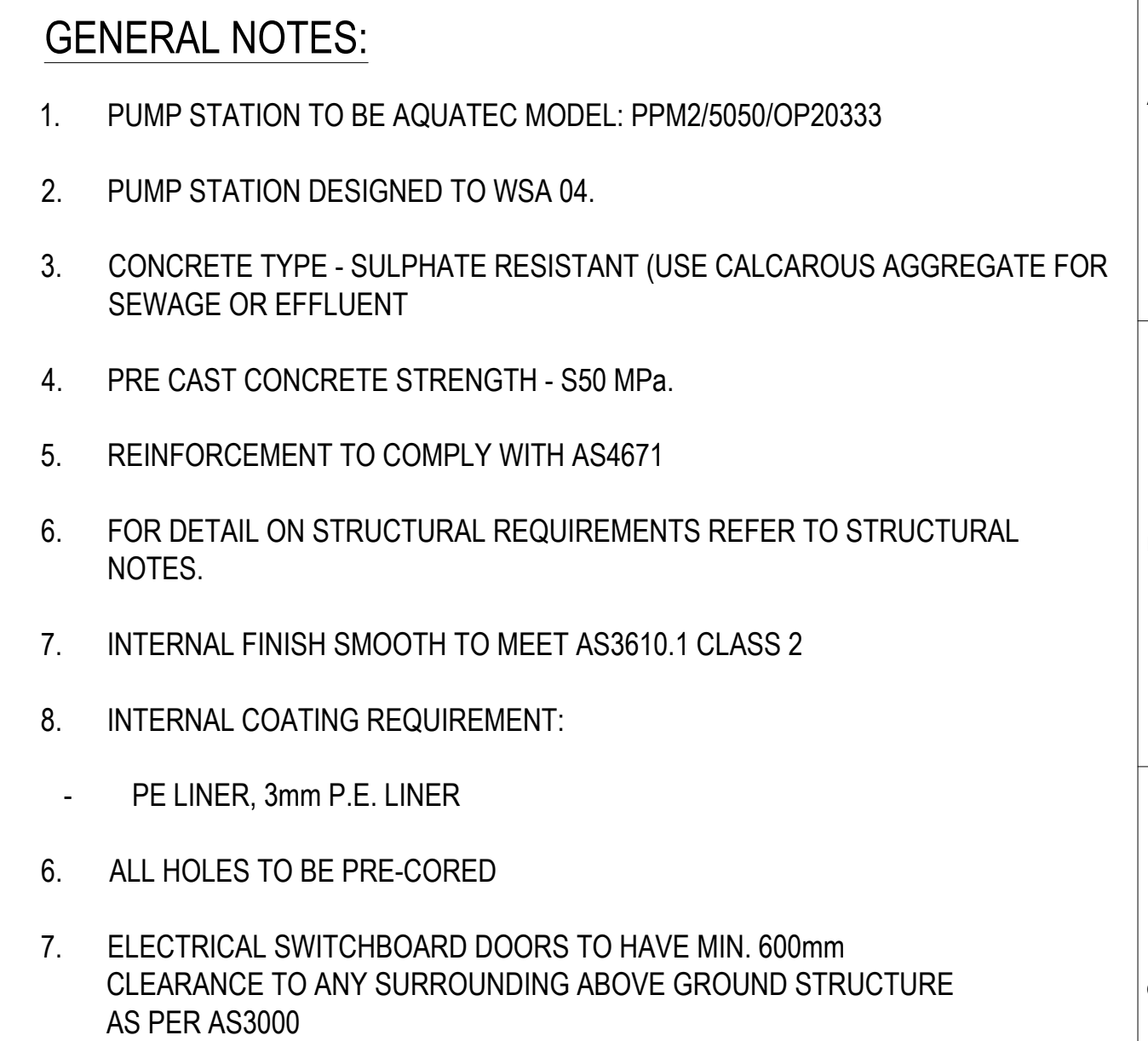
Customer Submission Status

20333 -40002

Drawing Number

A

Revision



PUMPING STATION DETAILS	
FINISHED SURFACE LEVEL RL	38.51 m
DISCHARGE PIPE IL (@ VC)	36.51 m
SEWER INLET PIPE DIAMETER	DN225
SEWER INLET PIPE IL	35.156m
WET WELL FLOOR RL	33.46 m

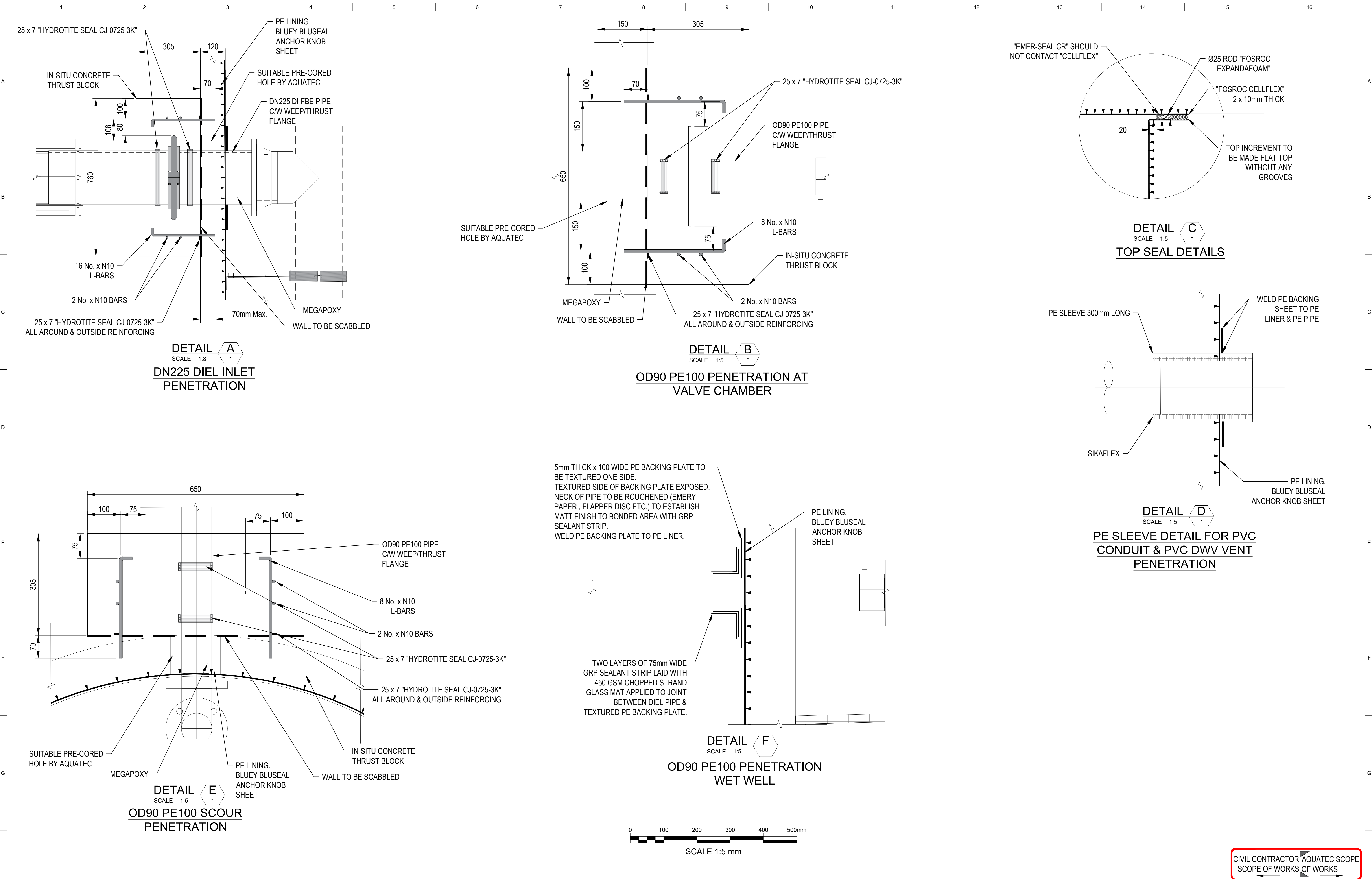
PUMP OPERATING LEVELS	
OVERFLOW RL	35.57 m
HIGH LEVEL ALARM	35.056 m
STDBY START RL	34.756 m
DUTY START RL	34.456 m
PUMP STOP RL	33.835 m
LOW LEVEL ALARM	33.735 m

PUMP DETAILS	
PUMP MAKE	FLYGT
PUMP MODEL	MP 3090 HT 3-50
PUMP WEIGHT	57 KG
MOTOR SIZE	4.3 kW
IMPELLER TYPE / SIZE	SEMI OPEN /180 mm
IMPELLER MATERIAL	GREY CAST IRON
DESIGN DUTY	4.954 L/s @ 35.058 m
SELECTED PUMP DUTY POINT	4.88 L/s @ 34.6 m
PUMP OPERATION	DUTY / STAND-BY
PUMP CONTROL	DOL

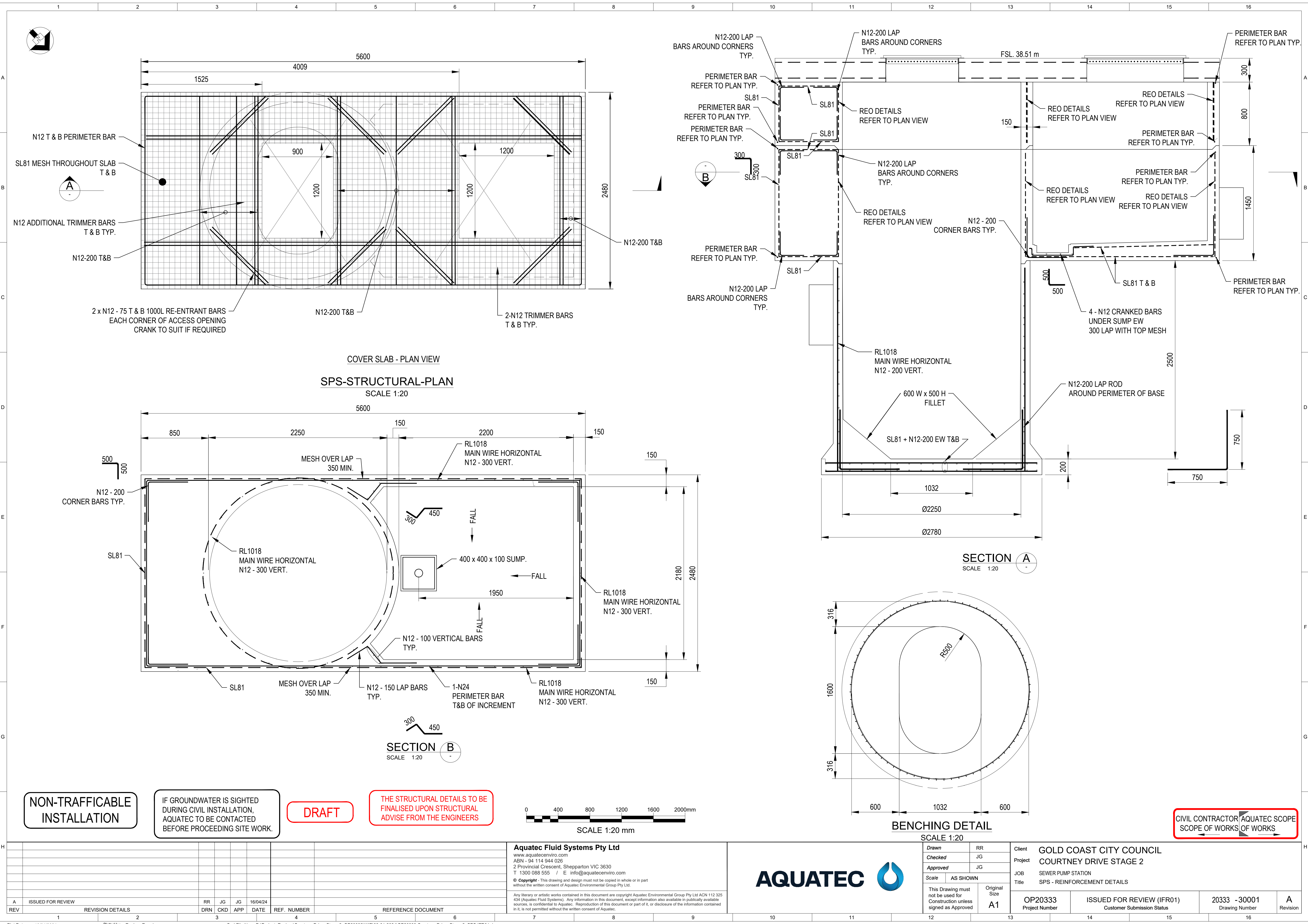
CIVIL CONTRACTOR SCOPE OF WORKS

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<i>Drawn</i>		RR	Client	GOLD COAST CITY COUNCIL				
<i>Checked</i>		JG		Project	COURTNEY DRIVE STAGE 2			
<i>Approved</i>		JG			JOB	SEWER PUMP STATION		
<i>Scale</i>		AS SHOWN		Title		SPS - PLAN		
This Drawing must not be used for Construction unless signed as Approved			Original Size	OP20333	ISSUED FOR REVIEW (IFR01)	20333 - 10002	A	
				Project Number	Customer Submission Status	Drawing Number	Revision	



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NON-TRAFFICABLE
INSTALLATION

IF GROUNDWATER IS SIGHTED
DURING CIVIL INSTALLATION,
AQUATEC TO BE CONTACTED
BEFORE PROCEEDING SITE WORK.

DRAFT

THE STRUCTURAL DETAILS TO BE
FINALISED UPON STRUCTURAL
ADVISE FROM THE ENGINEERS



BENCHING DETAIL
SCALE 1:20

CIVIL CONTRACTOR AQUATEC SCOPE
SCOPE OF WORKS OF WORKS

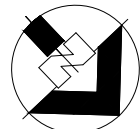
A		ISSUED FOR REVIEW	REVISION DETAILS				RR	JG	JG	16/04/24	REF. NUMBER		REFERENCE DOCUMENT	
REV		1		2		3	DRN	CKD	APP	DATE	4		5	6
Plot Date: 16/04/2024 Plotted by: Roshan Rauniyar Cad File No: D:\Project_Roshan\Courtney Drive_Stage 2_OP20333\WIP\08-01-2024\OP20333 Courtney Drive_Stage 2_SPS IFR01.dwg														

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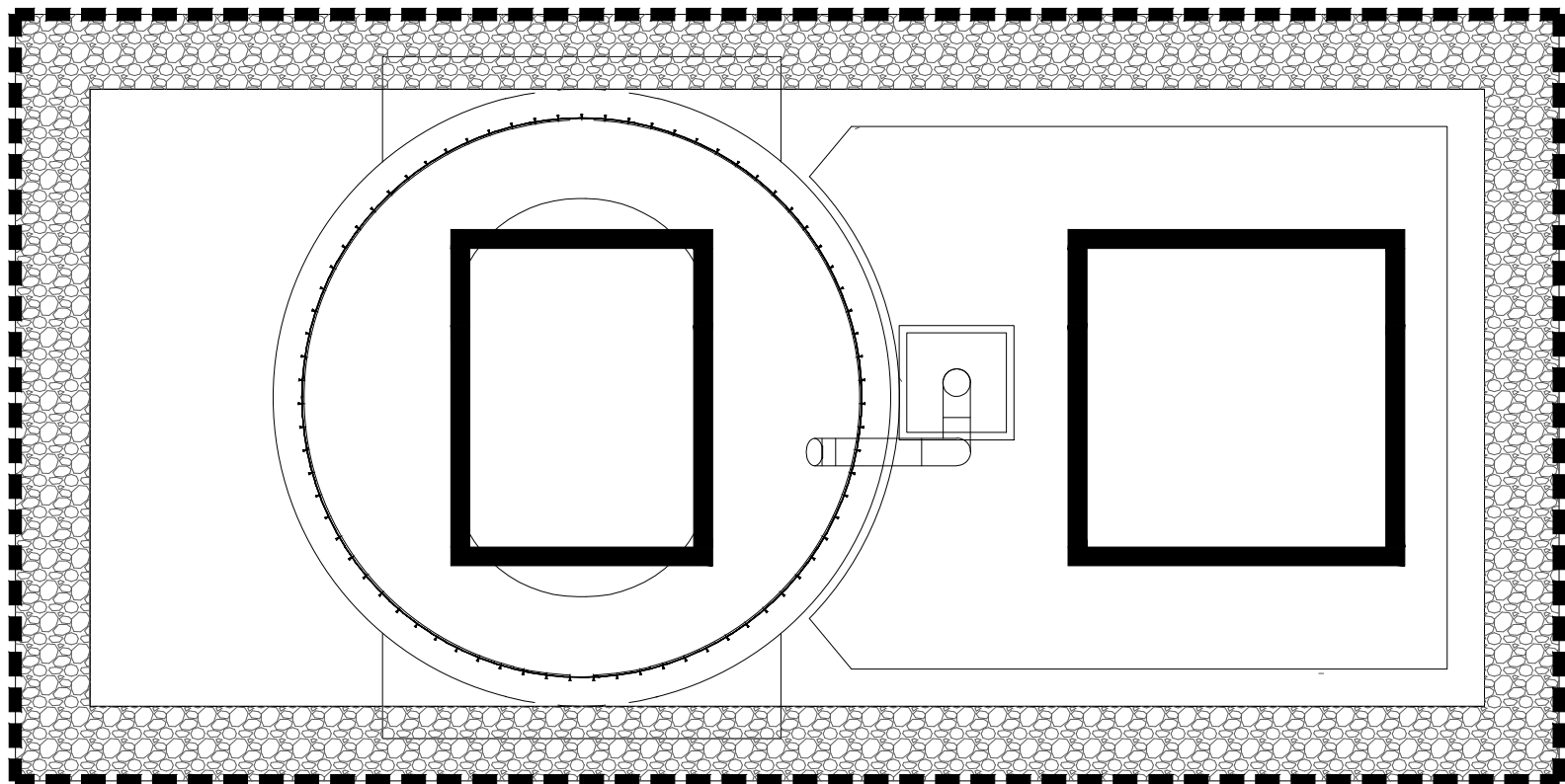


Drawn	RR
Checked	JG
Approved	JG
Scale	AS SHOWN
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Original Size	A1

Client	GOLD COAST CITY COUNCIL		
Project	COURTNEY DRIVE STAGE 2		
JOB	SEWER PUMP STATION		
Title	SPS - REINFORCEMENT DETAILS		
OP20333	ISSUED FOR REVIEW (IFR01)	20333 -30001	A
Project Number	Customer Submission Status	Drawing Number	Revision



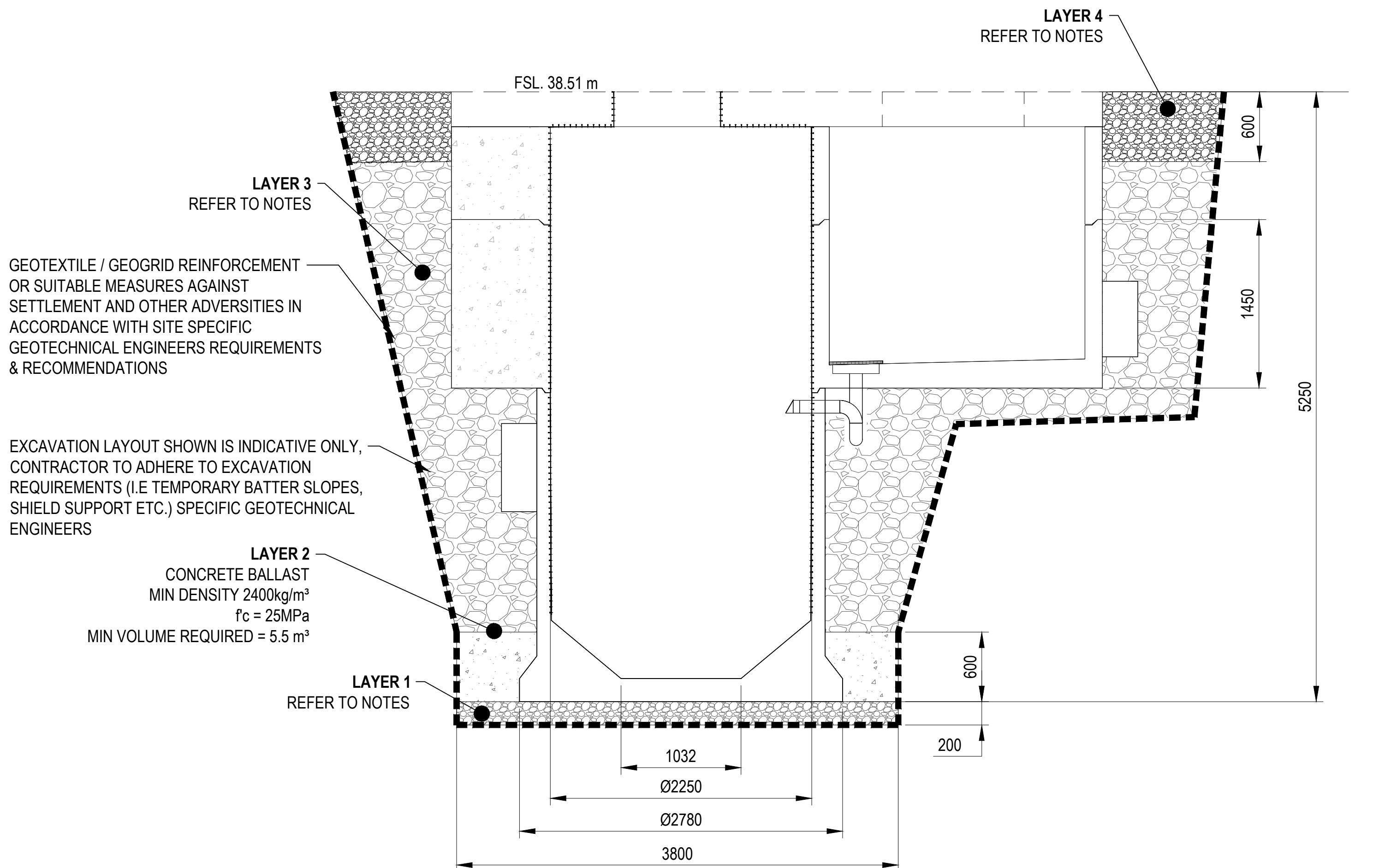
NOTE: IF GROUNDWATER IS SIGHTED DURING EXCAVATION
AQUATEC TO APPLY GATOR WRAP.



EXCAVATION LAYOUT SHOWN IS INDICATIVE ONLY,
CONTRACTOR TO ADHERE TO EXCAVATION REQUIREMENTS
(I.E TEMPORARY BATTER SLOPES, SHIELD SUPPORT ETC.)
SPECIFIED BY SITE SPECIFIC GEOTECHNICAL ENGINEERS

SPS - BACKFILL - PLAN

SCALE 1:30



SPS - BACKFILL - SECTION

SCALE 1:30

CONSTRUCTION NOTES AND BACKFILLING REQUIREMENTS

CONSTRUCTION NOTES AND BACKFILLING REQUIREMENTS FOR PUMP STATION INSTALLATION

(GRAVITY SEWER / RISING MAIN TRENCH FILLING, PIPE EMBEDMENT AND ANY OTHER BACKFILL / BULK EARTHWORKS OUTSIDE THE PUMP STATION INSTALLATION TO BE DESIGNED & CONSTRUCTED BY CIVIL CONTRACTORS)

OCCUPATIONAL HEALTH AND SAFETY:

THE CONTRACTOR IS RESPONSIBLE TO BE KNOWLEDGEABLE OF AND IS BOUND BY THE OH&S STATUTORY REQUIREMENTS PERTAINING TO WORK IN DEEP TRENCHES AND SHAFTS.

THE WATER AUTHORITY:

THE SPECIFICATIONS OF THE RELEVANT PRINCIPLE WATER AUTHORITY FOR THE INSTALLATION AND CONSTRUCTION OF PUMP STATION ARE TO BE ADHERED TO IN ADDITION TO THESE CONSTRUCTION RECOMMENDATIONS.

SITE INVESTIGATION:

CONTRACTORS TO LIAISE WITH THEIR GEOTECHNICAL / CONSULTING ENGINEER TO CONDUCT A SITE / GEOTECHNICAL INVESTIGATION TO ESTABLISH INDICATIVE SUBSURFACE CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

LAYER 1 - FOUNDATION:

FOUNDATION MATERIAL - GRADE N20 MASS CONCRETE CAST AS A SUB BASE WITH 50MM LAYER OF COMPACTED DRAINAGE AGGREGATES BEDDING TO ACHIEVE THE FINISHED PREPARED BASE LEVEL

- EXCAVATION DEPTH IS TO BE A MINIMUM OF 200MM BELOW BASE OF CASTING AND MAY BE DEEPER AS REQUIRED (OR POURING ADDITIONAL BLINDING) TO ACHIEVE A MINIMUM FOUNDATION BEARING CAPACITY OF 100KPA (HOLD POINT).
- WHERE OVER EXCAVATION HAS OCCURRED BELOW THE PITS, SUCH OVER EXCAVATION SHALL BE FILLED WITH ABOVE MENTIONED FOUNDATION MATERIAL TO THE ENGINEER'S SATISFACTION.
- PREPARE 200mm THICK LAYER SUB-BASE WITH ABOVE MENTIONED FOUNDATION MATERIAL.
- BASE FOUNDATION SHALL BE INSPECTED BY AN EXPERIENCED GEO-TECHNICAL ENGINEER TO CONFIRM MINIMUM BEARING REQUIRED AND THERE IS NO RISK OF SETTLEMENT.

LAYER 2 - CONCRETE BALLAST

CONCRETE WITH MIN DENSITY = 2400kg/m³ AND GRADE 25MPa

- POUR CALCULATED VOLUME OF CONCRETE AS RETAINER BALLAST AROUND BASE OF UNIT TO RESIST BUOYANCY & MUST BE CONSTRUCTED TO THE DIMENSIONS SHOWN ON THE SECTION (REFER BUOYANCY COMPUTATIONS)
- MIN 200MM CLEARANCE NEED TO BE PROVIDED BETWEEN PIPE / PIPE CONNECTIONS' EXTERNAL SURFACE AND CONCRETE BALLAST FOR THE PIPEWORK ENCROACHING CONCRETE BALLAST

LAYER 3 - BACKFILL:

BACKFILL MATERIAL - 20mm CLASS 4 CRUSHED ROCK (NATURAL GRAVEL OR QUARRIED MATERIALS)

- COMPACTED TO MIN. 95% RDD (STD) IN MAXIMUM LIFTS OF 200mm IN ACCORDANCE WITH AS1289.5.1. DO NOT SLUICE OR FLOOD THE BACKFILL INTO PLACE
- MIN DENSITY 1850 Kg/m³ (HOLD POINT)

REFER SEWAGE PUMPING STATION CODE OF AUSTRALIA WSA 04.

NO BACKFILL PARTICLE SIZE GREATER 20MM AROUND OR SURROUNDING THE PITS IS ALLOWED. ALL CHOSEN MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING, AS REQUIRED:

- CONSULTING ENGINEERS SITE INVESTIGATION
- AS2758.1 AGGREGATES AND ROCK FOR ENGINEERING PURPOSES

COVER SLAB INSTALLATION:

- PREPARE THE COMPACTED GROUND TO THE TOP OF THE UPPERMOST WELL INCREMENT.
- AQUATEC SITE REPRESENTATIVE ALONG WITH INSTALLATION CONTRACTOR TO CHECK AND CONFIRM THIS PRIOR TO LOWERING THE COVER SLAB INTO POSITION.
- OVERHANG LOAD MUST BEAR ON BACKFILLED GROUND WHEN INSTALLING ONTO FINAL RING SEGMENT.

PERIMETER:

PLACE COMPACTED BACKFILL UP TO FINISHED NATURAL SURFACE LEVEL AROUND ITS PERIMETER. MAINTAIN GOOD TRANSITION BETWEEN ORIGINAL SURFACES AND THE NEW.

COMPACTION:

COMPACTION AROUND PUMP STATION SITE IS TO BE HOLD POINT & SHALL BE IN ACCORDANCE WITH AS1289.5 AND QUALIFIED GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING COMPACTION FOR SUPERVISION & CERTIFICATION IN ACCORDANCE WITH REQUIREMENTS & RECOMMENDATIONS SPECIFIED BY SITE SPECIFIC GEOTECHNICAL ENGINEERS.

GEOTEXTILE AND/OR GEOGRID REINFORCEMENT:

INSTALL GEOTEXTILE / GEOGRID REINFORCEMENT OR SUITABLE MEASURES AGAINST SETTLEMENT AND OTHER ADVERSITIES IN ACCORDANCE WITH SITE SPECIFIC GEOTECHNICAL ENGINEER'S REQUIREMENTS & RECOMMENDATIONS

EXCAVATION REQUIREMENTS:

EXCAVATION SUPPORT (I.E. BATTER SLOPES, SHIELD SUPPORT / SHORING BOX ETC.) TO BE DESIGNED AND CONSTRUCTED BY CIVIL CONTRACTORS IN ACCORDANCE WITH SITE SPECIFIC GEOTECHNICAL ENGINEER'S REQUIREMENTS & RECOMMENDATIONS

TESTING AND INSPECTION:

TESTING & INSPECTION IS TO BE HOLD POINT AND TO BE IN ACCORDANCE WITH THE MINIMUM FIELD DENSITY TESTING FREQUENCY/EXTENT, LEVEL OF SUPERVISION REQUIREMENTS ETC. SPECIFIED BY THE SITE SPECIFIC GEOTECHNICAL ENGINEERS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. INSPECTION OF THE CIVIL CONTRACTOR SITE WORKS AND METHOD OF INSTALLATION MUST BE PERFORMED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE STANDARDS REQUIREMENTS HAVE BEEN MET.

SITE SPECIFIC RECOMMENDATION:

- GEOTECHNICAL SUPERVISION DURING CONSTRUCTION IS RECOMMENDED TO ASSIST THE CONSTRUCTION AND EVALUATE THE EXCAVATION STABILITY. CONTRACTORS TO LIAISE WITH SITE SPECIFIC GEOTECHNICAL ENGINEERS FOR TESTING REQUIREMENTS (I.E FIELD DENSITY TESTING FREQUENCY/EXTENT) & INSPECTION REQUIREMENTS (I.E. LEVEL OF SUPERVISION), AND TO BE IN ACCORDANCE WITH SITE SPECIFIC GEOTECHNICAL ENGINEERS ADVISE.
- CONTRACTORS TO ADHERE TO ANY EARTHWORK, EXCAVATION, BACKFILL, CONSTRUCTION, SITE SPECIFIC TREATMENT REQUIREMENTS/RECOMMENDATIONS SPECIFIED BY SITE SPECIFIC GEOTECHNICAL ENGINEERS (I.E. DRAINAGE MEASURES, DE-WATERING MEASURES, GEOTEXTILE/GEOGRID REINFORCEMENT MEASURES AGAINST SETTLEMENT, EXCAVATION SUPPORT REQUIREMENTS, EROSION & SEDIMENT CONTROL MEASURES, MOISTURE CONTROL MEASURES, TREE REMOVAL/PLANTATION MEASURES, ROOT TREATMENTS, ACID SULFATE SOIL MANAGEMENT MEASURES).
- CONTRACTORS TO ENSURE BEARING CAPACITY > 100 KPA IS AVAILABLE AT FOUNDATIONS.
- CONTRACTORS TO REMOVE ANY EXISTING SOIL (I.E FILL, TOPSOIL, DISTURBED/WEAKENED SOILS, ORGANIC/DELETERIOUS/PERISHABLEMATTER) FROM THE PUMP STATION SITE, SPECIFIED BY SITE SPECIFIC GEOTECHNICAL ENGINEERS AS NOT RECOMMENDED/SUITABLE FOR STRUCTURAL FILL.
- CONTRACTORS TO TAKE NECESSARY PRECAUTIONS/ TREATMENTS TO PREVENT ANY STRUCTURAL DAMAGES TO THE PUMP STATION STRUCTURES & PIPEWORK DUE TO ANY ADVERSE SITE SOIL CONDITIONS (I.E. FILL, CONTAMINATED/ REACTIVE/ SOFT/ COLLAPSING/DISPERSIVE/ FISSURED SOILS, SETTLEMENTS, ABNORMAL MOISTURE CONDITIONS, TREES/ROOTS, ACID SULFATE SOIL)
- CONTRACTOR TO INVESTIGATE IF THERE ARE ANY UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF EXCAVATIONS.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
- ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3798-2007

CIVIL CONTRACTOR SCOPE OF WORKS
AQUATEC SCOPE OF WORKS

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Drawn RR

Checked JG

Approved JG

Scale AS SHOWN

This Drawing must not be used for Construction unless signed as Approved

Original Size A1

Client GOLD COAST CITY COUNCIL

Project COURTNEY DRIVE STAGE 2

JOB SEWER PUMP STATION

Title BACKFILL DETAILS

OP20333

Project Number

ISSUED FOR REVIEW (IFR01)

Customer Submission Status

20333 -20001

Drawing Number

A

Revision