BOTANY AQUATIC CENTRE REDEVELOPMENT JASMINE STREET, BOTANY NSW 2019 CIVIL WORKS DRAWINGS

STANDARD NOTES

GENERAL NOTES

- DRAWINGS AND SPECIFICATIONS TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT AND
- THE GENERAL CONDITIONS OF CONTRACT. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCING CONSTRUCTION
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004. INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED IN PARTICULAR THE REQUIRED NOTIFICATIONS MUST BE CONVEYEDTO WORKSAFE VICTORIA WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- DRAINAGE PIPES SHALL BE RUBBER RING JOINTS REINFORCED CONCRETE CLASS 2, UNLESS OTHERWISE SHOWN.
- DRAINAGE PIPES AND PITS ARE SETOUT FROM OFFSETS. RATHER THAN FROM CENTERLINE PIPE CHAINAGES
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATIONS AND THE VARIOUS AUTHORITIES ARE TO BE NOTIFIED
- 7. UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP & GRADED OVER AND ALL RUBBISH IS TO BE REMOVED. THE SITE IS TO BE LEFT CLEAN & TIDY AND TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT.
- EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH A.S.3798-2007 (GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS) FILLING TO BE CARRIED OUT USING GEOTECHNICALLY APPROVED FILL COMPACTED TO 98% MDD (STANDARD) UNLESS STATED OTHERWISE. ALL FILL SHALL BE PLACED ONTO A PREPARED AND COMPACTED FIRM BASE TO THE SATISFACTION OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF FILLING. ALL FILLING MUST COMPLY WITH A.S. 3798-2007 LEVEL 1 AND BE COMPACTED IN 150mm LAYERS.
- ALL DRAINAGE PIPES UNDER ROAD PAVEMENT, DRIVEWAY, FOOTPATH & KERB AND CHANNEL SHALL BE BACKEILLED WITH 20mm HIGH QUALITY NON-BOUND GRADED FINE CRUSHED ROCK & ALL CONDUIT TRENCHES UNDER ROAD PAVEMENT. DRIVEWAY, FOOTPATH & KERB AND CHANNEL SHALL BE BACKEILLED WITH 20mm HIGH QUALITY NON-BOUND GRADED FINE CRUSHED ROCK
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER CONTRACTORS AND/OR AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE ENGINEER THE EXACT LOCATION OF ALL PROPOSED SERVICES PRIOR TO THE INSTALLATION OF CONDUITS. ALL WORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT
- SUBSURFACE DRAINS ARE TO BE LAID BEHIND ALL KERB AND CHANNEL ALL TRENCHING AND EXCAVATION WORKS SHALL BE UNDERTAKEN IN STRICT ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE WORKSAFE AUTHORITY GUIDELINES PRIOR TO COMMENCING WORK ON TRENCHES IN EXCESS OF 1.50m DEEP. NOTICE OF SUCH PROPOSAL IS TO BE LODGED WITH ALL RELEVANT SAFETY AUTHORITIES AND COUNCIL AS MAY BE REQUIRED. THE CONTRACTOR SHALL PROVIDE THE SUPERINTENDENT WITH PROOF OF SUCH LODGMENT
- THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING. PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION TO PROTECT THE PUBLIC FROM THE WORKS 14. SIGNS, LINEMARKING AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE ON ROADS IN
- ACCORDANCE WITH A.S.1742.2 15. PERMANENT SURVEY MARK SKETCH PLANS ARE TO BE PREPARED ESTABLISHING A.H.D. LEVELS AND
- A.M.G. CO-ORDINATES FOR REGISTRATION WITH THE C.P.O. BY A LICENSED SURVEYOR. 16. LOCATION OF ELECTRICITY AND VUF CONDUITS WILL BE PROVIDED BY OTHERS.
- 17. FOR THE TERM OF THE CONTRACT PERIOD THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PREVENT THE EMISSION OF DUST, WHETHER FROM THE OPERATION OF CONSTRUCTION EQUIPMENT OR EXPOSURE OF SOIL TO WINDS.
- 18. APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING CONSTRUCTION AND MAINTENANCE PERIOD.
- 19. ANY TREE REMOVAL MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN OR AS DIRECTED ONSITE BY THE LANDSCAPE APPROVALS OFFICER. TREES SHOWN ON THE PLANS ARE TO BE RETAINED AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- ALL ROOTS AND DECOMPOSABLE MATERIAL UNDER ROAD PAVEMENTS SHALL BE REMOVED TO THE SATISFACTION OF COUNCIL'S SUPERINTENDENT. 20. NO SURPLUS TREES OR VEGETATION ARE TO BE BURNT ON SITE.
- 21. CONCRETE SHALL BE 25 MPA FOR BOTH KERB AND CHANNEL AND FOOTPATH, HAVING A MINIMUM CEMENT CONTENT OF 280KG PER CUBIC METRE.
- 22. ON COMMENCEMENT OF CONSTRUCTION WORKS THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE EPA PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO. 275)
- 23. ALL TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CONSULTANT TO ARRANGE REINSTATEMENT AT THE CONTRACTORS EXPENSE.
- 24. FOOTPATHS AND VEHICLE CROSSINGS TO BE DOWELLED AT THE END OF EACH DAY'S POUR OF CONCRETE. 25. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- 26. ANY EXISTING PAVEMENT OR DRAINAGE DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD IS TO BE REINSTATED BY THE CONTRACTOR TO THE SATISFACTION OF THE SUPERINTENDENT. 27. PAVEMENT SUB-BASE AND BEDDING TO KERB & CHANNEL IS TO EXTEND 150MM BEHIND BACK OF KERB
- 28. UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE A FULL AND DETAILED AS CONSTRUCTED FEATURE AND LEVEL SURVEY ADMINISTERED BY A LICENSED SURVEYOR TO AHD OF THE FOLLOWING:
- 28.1. ALL IN-GROUND STORMWATER DRAINAGE INCLUDING PIT LOCATIONS AND COORDINATES, PIPE ALIGNMENTS, PIPE INVERT LEVELS AT PIT JUNCTIONS AND ALL OTHER RELEVANT STORMWATER DRAINAGE ELEMENTS SUCH AS GRATED TRENCHES ETC.
- ALL PAVEMENTS AND ASSOCIATED KERBING AND OTHER FEATURES FOR THE FULL EXTENTOF 28.2. THE AREA OF WORKS. TO CLARIFY, A FULL FEATURE AND LEVEL SURVEY OF ALL PAVEMENTS, PATHS, BUILDING FOOTPRINT (INCLUDING FFL'S) ALL INDOOR AND OUTDOOR POOLS INCLUDING LEVELS TO THE FRONT AND BACK OF THE POOL WETDECKS AS WELL AS THE POOL FLOOR WITH LEVEL INTERVALS RECORDED AT NO LESS THAN EVERY 5m AROUND THE POOL PERIMETER AND ALL OTHER EXTERNAL WORK FEATURES.
- 29. PRIOR TO THE ISSUE OF STATEMENT OF COMPLIANCE, ALL DRAINS ARE TO BE CCTV TESTED AND THE RESULTS PROVIDED TO COUNCIL.

GENERAL NOTES(CONT.

- 30. ALL LINEMARKING IS TO BE LONG LIFE PAINT
- ALL SERVICES ARE TO BE CONSTRUCTED PRIOR TO THE ESTABLISHMENT, CONDITIONING AND PREPARATION OF EXTERNAL PAVEMENT AND BUILDING PAD SUBGRADE 32. COMPACTION RESULTS OF EASEMENTS TO BE PROVIDED TO COUNCILS CONSTRUCTION ENGINEE
- 33. THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS INCLUDING ALL SUBGRADE PREPARATIO FILL WORKS AND PAVEMENT CONSTRUCTION UNDER LEVEL 1 GEOTECHNICAL SUPERVISION, UPON THE COMPLETION OF SUBGRADE PREPARATION. OR EACH LAYER OF PLACE FILL OR PAVEMENT LAYER, THE CONTRACTOR'S GEOTECHNICAL CONSULTANT SHALL PROVIDE PROOF OF ALL RELEVAN TESTING AND A LEVEL 1 CERTIFICATE THAT CERTIFIES ALL WORKS COMPLY WITH THE CONTRACT DOCUMENTS AND THE RELEVANT AUSTRALIAN STANDARDS. THE SAME REQUIREMENTS APPLY TO ALI POOL BASE PREPARATION WORKS
- 34. THE CONTRACTOR AND THEIR ENGAGED GEOTECHNICAL ENGINEER SHALL ADMINISTER TH FOLLOWING TESTING AS A MINIMUM AND SHALL SEEK WRITTEN APPROVAL FROM THE SUPERINTENDENT PRIOR TO PROCEEDING WITH THE SUBSEQUENT STAGE OF WORKS WITH RESPECT
- TO ANY SUBGRADE PREPARATION, FILL PLACEMENT OR PAVEMENT CONSTRUCTION STABILISED SUBGRADE: UPON COMPLETION OF PREPARATION, STABILISATION AN COMPACTION. THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS THE AREA OF SUBGRADE OR A MINIMUM OF 10 TESTS. WHICHEVER IS GREATER. THE GEOTECHNICAL CONSULTANT SHALL ALSO WITNESS A PROOF ROLL INSPECTION ACROSS THE FULL EXTENT OF THE AREA PREPARED
- NON-STABILISED SUBGRADE: UPON COMPLETION OF PREPARATION AND COMPACTION. THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS THE AREA OF SUBGRADE OR A MINIMUM OF 10 TESTS. WHICHEVER IS GREATER. THI GEOTECHNICAL CONSULTANT SHALL ALSO WITNESS A PROOF ROLL INSPECTION ACROSS TH FULL EXTENT OF THE AREA PREPARED
- FILL PLATFORM LAYERS: UPON COMPLETION OF PREPARATION AND COMPACTION, THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS EACH 250MM THICK LAYER OF FILL PLACED AND COMPACTED AS PART OF THE PROJECT WORKS
- PAVEMENT LAYERS: UPON COMPLETION OF PREPARATION AND COMPACTION. THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION TEST FOR EVERY 250SQM ACROSS THE PAVEMENT ROCK LAYER OR A MINIMUM OF 10 TESTS, WHICHEVER IS GREATER. THE GEOTECHNICAL CONSULTANT SHALL ALSO WITNESS A PROOF ROLL INSPECTION ACROSS TH FULL EXTENT OF FACH PAVEMENT LAYER
- CONCRETE PAVEMENT: PRIOR TO PLACEMENT OF ANY CONCRETE. THE CONTRACTOR SHALL ENGAGE A VBA AND CONSUMER AFFAIRS REGISTERED CIVIL ENGINEER TO ADMINISTER AN INSPECTION OF THE CONCRETE PAVEMENT REINFORCEMENT INCLUSIVE OF ALL SAW-CUT AND JOINT DOWEL SYSTEMS. THE CIVIL ENGINEER SHALL PROVIDE A CERTIFICATION ED REINFORCEMENT COMPLIES WITH THE CIVIL DOCUMENTATION PACKAGE
- SERVICE TRENCH BACKEILLING: FOR ALL SERVICE TRENCHES WITHIN PAVED AREAS OR WITHIN HE BUILDING FOOTPRINT. THE CONTRACTOR SHALL ADMINISTER A MINIMUM OF 1 COMPACTION EST FOR EVERY 20 LINEAL METERS OF TRENCH BACKEILLIN(
- IN EACH CIRCUMSTANCE THE CONTRACTOR SHALL PROVIDE THE RELEVANT TEST RESULTS AND NSPECTION REPORTS AND SEEK FORMAL APPROVAL FROM THE PROJECT SUPERINTENDENT PRIOR TO PROCEEDING WITH THE NEXT STAGE OF EARTH/CIVIL WORKS. NOTE THAT FAILURE TO ADMINISTER THE MINIMUM TESTING REQUIREMENTS WILL CONSTITUTE DEFECTIVE WORKS AND THE CONTRACTOR MAY BE DIRECTED TO RECONSTRUCT THE EARTH/CIVIL WORKS AT THEIR EXPENSE AT THE SOLE DISCRETION OF BAYSIDE COUNCIL.
- 38. THE CIVIL NOTES AND DRAWINGS SHALL BE READ AND CONSTRUCTED IN CONJUNCTION WITH ALL OTHER CONSULTANT DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTATION

RAIN GARDEN FILTER MEDIA COMPONENT NOTES:

- F1. ALL FILTER MEDIA USED FOR THE WORKS IS TO BE APPROPRIATELY TESTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND A COPY OF RESULTS SENT TO THE PROJECT SUPERINTENDENT PRIOR TO THE MATERIAL BEING PLACED ON SITE.
- F2. FILTER MEDIA SHALL HAVE A SATURATED HYDRAULIC CONDUCTIVITY IN THE RANGE OF 250-350 MM/H UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT. SATURATED HYDRAULIC CONDUCTIVITY OF POTENTIAL FILTER MEDIA SHOULD BE MEASURED USING THE ASTM F1815-06 METHOD.
- F3. FILTER EDIA, WHICH COMPLY WITH THE PARTICLE SIZE GRADING OUTLINED BELOW, WILL GENERALLY MEET SATURATED HYDRAULIC CONDUCTIVITY SPECIFICATIONS. F4. THE FILTER MEDIA SHOULD BE WELL-GRADED I.E., IT SHOULD HAVE ALL PARTICLE SIZE RANGES PRESENT FROM THE 0.075 MM TO THE 4.75 MM SIEVE (AS DEFINED BY AS1289.3.6.1 - 1995). THERE
- SHOULD BE NO GAP IN THE PARTICLE SIZE GRADING, AND THE COMPOSITION SHOULD NOT BE DOMINATED BY A SMALL PARTICLE SIZE RANGE. F5. FILTER MEDIA THAT DO NOT MEET THE FOLLOWING ADAPTED AS4419 - 2003 - SOILS FOR LANDSCAPING
- AND GARDEN USE SPECIFICATION SHOULD BE REJECTED: F5.1. ORGANIC MATTER CONTENT - LESS THAN 5% (W/W). AN ORGANIC CONTENT HIGHER THAN 5% IS
- LIKELY TO RESULT IN LEACHING OF NUTRIENTS. PH- AS SPECIFIED FOR "NATURAL SOILS AND BLENDS" 5.5 -7.5 (PH 1:5 IN WATER). F5.2. ELECTRICAL CONDUCTIVITY (EC) - AS SPECIFIED FOR NATURAL SOILS AND SOIL BLENDS < 1.2 F5.3.
- F5.4. PHOSPHORUS - < 100 MG/KG. SOILS WITH PHOSPHORUS CONCENTRATIONS > 100 MG/KG SHOULD BE TESTED FOR POTENTIAL LEACHING.
- F6. POTENTIAL FILTER MEDIA SHOULD GENERALLY BE ASSESSED BY A HORTICULTURALIST TO ENSURE THAT THEY ARE CAPABLE OF SUPPORTING A HEALTHY VEGETATION COMMUNITY. THIS ASSESSMENT SHOULD TAKE INTO CONSIDERATION DELIVERY OF NUTRIENTS TO THE SYSTEM BY STORMWATER.
- F7. THE TRANSITION LAYER SHALL CONSIST OF WASHED SAND WITH 90% PARTICLES RETAINED ABOVE 0.25mm THE HYDRAULIC CONDUCTIVITY OF THE TRANSITION LAYER IS TO BE NO LESS THAN 450mm/HR
- F8. THE DRAINAGE LAYER SHALL BE COMPOSED OF CLEAN STONE WITH ALL PARTICLES BETWEEN 4.0mm AND 7.0mm IN SIZE.
- F9. SCORIA OR QUARTZ ARE NOT SUITABLE MATERIAL FOR USE AS A DRAINAGE LAYER

WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS **DIAL 1100 BEFORE YOU DIG**

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NOTE: SURVEY IS TO BE PROVIDED TO THE SUPERINTENDENT FOR REVIEW THE CONTRACTOR SHALL CARRY OUT A DETAILED INVESTIGATIVE SURVEY INCLUDING GROUND PENETRATING SCANNING TO LOCATE ALL EXISTING IN-GROUND STORMWATER DRAINAGE AND EXISTING POOL HYDRAULIC PIPEWORK ACROSS THE ENTIRETY OF THE SITE PRIOR TO COMMENCING ANY DEMOLITION WORKS. ONCE LOCATED, THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH A COPY OF THE SURVEY OF THE EXISTING PIPEWORK AND SEEK APPROVAL TO COMMENCE THE TRENCHING, REMOVAL OF ALL EXISTING IN-GROUND DRAINAGE AND POOL PIPEWORK AND ANY ASSOCIATED VALVES AND PITS. UPON REMOVAL OF THE REDUNDANT IN-GROUND PIPEWORK, THE TRENCH SHALL BE BACKFILLED WITH SUITABLE COMPACTED FILL OR CRUSHED ROCK MATERIALS UNDER THE DIRECTION AND SUPERVISION OF THE CONTRACTOR'S ENGAGED GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL CONSIDER ANY TEMPORARY DRAINAGE PROVISIONS REQUIRED THROUGHOUT THE CONSTRUCTION PERIOD WHICH MAY INCLUDE DELAYING DEMOLITION OF SOME EXISTING DRAINAGE UNTIL SUCH A TIME THA NEW DRAINAGE INFRASTRUCTURE HAS BEEN INSTALLED TO SERVICE THE SITE IN THE TEMPORARY CONDITION.

NOTE: 90Ø AG-DRAIN TO BE PROVIDED TO THE BACK OF ALL KERBS AND GRADED AT 1 IN **100 TO THE NEAREST STORMWATER** DRAINAGE PIT. REFER TO AG-DRAIN DETAIL ON DRAWING 'C011'

EXISTING	SERVICES	LEGEND

EXISTING DRAINAGE LINE	——————————————————————————————————————
EXISTING WATER LINE	Ex.W
EXISTING SEWER LINE	——————————————————————————————————————
EXISTING ELECTRICAL LINE	Ex.E
EXISTING COMMUNICATION LINE (U/G)	——————————————————————————————————————
EXISTING FIRE SERVICES	Ex.FS
EXISTING GAS LINE	Ex.G
EXISTING UNKNOWN LINE	——————————————————————————————————————

DRAWING INDEX:

CIVIL DRAWINGS:

C000 COVER SHEET & GENERAL NOTES

C001 - COVER SHEET, GENERAL NOTES AND DRAWING INDEX C002 - SITE LOCALITY PLAN

C010 TYPICAL CIVIL DETAILS

C010 TYPICAL CIVIL DETAILS - SHEET 1 **C011 TYPICAL CIVIL DETAILS - SHEET 2 C012 TYPICAL CIVIL DETAILS - SHEET 3**

C020 CIVIL DEMOLITION

C020 SITE CIVIL DEMOLITION PLAN - SHEET 1 C021 CIVIL DEMOLITION DETAILS

C030 CIVIL BULK EARTHWORKSS

C030 SITE GENERAL BULK EARTHWORKS PLAN - SHEET 1 **C031 SITE GENERAL BULK EARTHWORKS PLAN - SHEET 2**

C040 CIVIL PAVEMENTS & FINISH LEVELS

C040 CIVIL PAVEMENT & FINISH LEVELS PLAN - SHEET 1 C041 CIVIL PAVEMENT & FINISH LEVELS PLAN - SHEET 2

- C042 SITE FINISH SURFACE CROSS SECTIONS SHEET 1 (PART OF CONTRACT DOCUMENTATION WORKS)
- C043 SITE FINISH SURFACE CROSS SECTIONS SHEET 2 (PART OF CONTRACT DOCUMENTATION WORKS)
- C044 SITE FINISH SURFACE CROSS SECTIONS SHEET 3 (PART OF CONTRACT DOCUMENTATION WORKS) C045 CARPARK KERB SETOUT - SHEET 1
- (PART OF CONTRACT DOCUMENTATION WORKS) C046 CARPARK KERB SETOUT - SHEET 2
- (PART OF CONTRACT DOCUMENTATION WORKS) C047 CARPARK KERB SETOUT - SHEET 3
- (PART OF CONTRACT DOCUMENTATION WORKS)
- C048 OUTDOOR POOL AREA PAVEMENT SETOUT (PART OF CONTRACT DOCUMENTATION WORKS)

C050 CIVIL PAVEMENT JOINTING

C050 CIVIL PAVEMENT JOINTING PLAN - SHEET 1 C051 CIVIL PAVEMENT JOINTING PLAN - SHEET 2

C060 DRAINAGE PIT SCHEDULE

C070 CIVIL CARPARK LINE MARKING

C070 CARPARK LINE MARKING SETOUT DIMENSIONS PLAN (PART OF CONTRACT DOCUMENTATION WORKS)

C071 CARPARK LINE MARKING & SIGNAGE PLAN

(PART OF CONTRACT DOCUMENTATION WORKS) C072 CARPARK LINE MARKING & SIGNAGE DETAILS (PART OF CONTRACT DOCUMENTATION WORKS)

C080 CIVIL OSD CATCHMENTS

C080 CIVIL OSD CATCHMENT PLAN - SHEET 1 C081 OSD TANK BOTTOM SLAB AND FOOTING PLAN C082 OSD TANK TOP SLAB C081 OSD TANK DETAILS

SITE CONSTRUCTION DEWATERING

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LEGEND

NOTE: LEGEND APPLIES TO ALL CIVIL DRAWINGS UNLESS NOTED OTHERWISE

SITE AREA SUBJECT TO DEMOLITION WORKS. REFER TO ARCHITECTURAL DEMOLITION PLAN A001 FOR EXACT EXTENT AND DETAILS

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Level 7, 176 Wellington Parade East Melbourne, VIC, Australia 3002 Ph: (03) 9417 7393

PROJECT

BOTANY AQUATIC CENTRE

RAWING TITLE

SITE CIVIL DEMOLITION PLAN

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IL DRAWINGS		
ASPHALT PAVEMENT CHITECT'S DRAWINGS FOR	EX. PIT	EXISTING STORMWATER PIT
CATIONS AND EXTENT	AG_LINE	A.G. DRAIN LINE
CONCRETE PAVEMENT CHITECT'S DRAWINGS FOR	SD	SPOON DRAIN
CATIONS AND EXTENT	GT1	ACO KS200 (SLOPING) GRATED TRENCH OR APPROVED EQUIVALENT WITH CLASS 'B' PLASTIC HEEL-SAFE NON-SLIP SLOTTED COVER
CHITECT'S DRAWINGS FOR CATIONS AND EXTENT	GT2	ACO KS100 (SLOPING) GRATED TRENCH OR APPROVED EQUIVALENT WITH CLASS 'B' PLASTIC HEEL-SAFE NON-SLIP SLOTTED COVER
CK SLAB WITH OP AND BOTTOM BOTH WAYS	GT3	STORMTECH SLOT DRAIN EXCASED / ENCAPSULATED WITHIN LOCALISED CONCRETE PAVEMENT THICKENING
E KERB	GT4	ACO K200 GRATED TRENCH WITH CLASS 'D' GALVANISED IRON HEEL GRATED COVER
E KERB AND CHANNEL	* FFL XXX.XX	FINISHED FLOOR LEVEL (REFER PLAN FOR LEVEL)
E EDGE	* EST xxx xx	FINISHED SURFACE LEVEL (REFER PLAN FOR LEVEL)
TER PIT	* FPL WK.W	FINISHED PAVEMENT LEVEL (REFER PLAN FOR LEVEL)
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REFER TO DRAWING SHEET C051 FOR CONTINUATION

CIVIL PAVEMENT JOINTING PLAN - SHEET 1

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	PIT SCHEDULE								
PIT No.	SIZE	FROM	INLET DIA./CLASS	INVERT LEVEL	OUTLE DIA./CLASS	T	TOP OF PIT	DEPTH TO INVERT	REMARKS
P1	1500 x 900	P2	600Ø CL4 RCP	4.98	EX. 1200Ø	4.98	твс	ТВС	CLASS 'C' SOLID GATIC COVER
P2	1200 x 900	P3	600Ø CL4 RCP	5.10	600Ø CL4 RCP	5.08	6.92	1.84	
		P2-1	225Ø SN12 UPVC	5.10					CLASS 'C' CONCRETE COVER
P2-1	HYDRO SYSTEM	P3	225Ø SN12 UPVC	5.15	225Ø SN12 UPVC	5.15			ATLAN HYDROSYSTEM SHS. 150D-1500C-06.225.PVC OR APPROVED EQUIVALENT STORMWATER TREATMENT DEVICE.
20	1950 x 1200	GT4	225Ø STORMPRO	6.47	600Ø CL4 RCP	5.45	7 19	2.01	CLASS 'D' GALVANISED HEEL-SAFE NON-SLIP GRATED COVER TO NORTHERN SIDE OF PIT
P3	BAFFLE PIT	P6 P4	900Ø CL4 RCP	5.00	225Ø SN12 UPVC	5.17	1.10	2.01	CLASS 'D' CONCRETE COVER TO SOUTHERN SIDE OF PIT. REFER TO DETAIL
P4	1200 x 600	P5	375Ø CL4 RCP	5.71	900Ø CL4 RCP	5.22	7.34	2.12	CLASS 'C' SOLID GATIC COVER
		OSD TANK	900Ø CL4 RCP	5.24					
P5	600 x 600	P5-1	225Ø CL4 RCP	5.75	375Ø CL4 RCP	5.73	7.10	1.37	
		P12	375Ø CL4 RCP	6.09					CLASS D'SOLID GATIC COVER
P5-1	900 x 600	-	-	-	375Ø CL4 RCP	5.81	7.00	1.19	CLASS 'B' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
P6	900 x 900	P7	525Ø CL4 RCP	6.12	525Ø CL4 RCP	5.88	7.61	1.73	CLASS 'B' SOLID GATIC COVER
		GT4	225Ø CL4 RCP	5.90	5250 CL / PCP	6.51	7 90	1 30	
P8	900 x 900 900 x 900	OVERFLOW	450Ø CL4 RCF 450Ø PIPE	6.75	450Ø CL4 RCP	6.73	7.90	1.04	CLASS 'B' SOLID GATIC COVER
P9	900 x 900	P13	300Ø CL4 RCP	5.86	675Ø CL4 RCP	5.84	7.16	1.32	CLASS 'D' SOLID GATIC COVER
		P14	675Ø CL4 RCP	6.06					
P10	900 x 600	P11	225Ø CL4 RCP	6.11	375Ø CL4 RCP	6.07	6.96	0.89	CLASS 'D' SOLID GATIC COVER
P11	600 x 600	-	-	-	225Ø CL4 RCP	6.13	6.86	0.73	CLASS 'B' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
P12	600 x 600	P12-1	225Ø CL4 RCP	6.25	375Ø CL4 RCP	5.95	7.10	1.15	CLASS 'D' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
		P11	225Ø CL4 RCP	5.97					
P12-1	600 x 600	-	-	-	225Ø CL4 RCP	6.27	7.00	0.73	CLASS 'B' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
P13	600 x 600	P13-1	225Ø CL4 RCP	5.95	375Ø CL4 RCP	5.93	6.92	0.99	CLASS 'B' SOLID GATIC COVER
P13-1	600 X 600	- P15	- 375Ø SN8 UPVC	6.26	22510 GL4 RGP	5.97	6.70	0.73	CLASS B HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
		POOL OVERFLOW	-						
P14	900 x 600	P19	375Ø CL4 RCP	6.39	600Ø CL4 RCP	6.24	7.78	1.54	CLASS 'B' SOLID GATIC COVER
		GT1 P21	375Ø CL4 RCP	6 34					
P15	900 x 600	P16	375Ø SN8 UPVC	6.44	375Ø SN8 UPVC	6.42		-	CLASS 'B' SOLID GATIC COVER
		P17	375Ø SN8 UPVC	6.70					CLASS 'B' SOLID GATIC COVER
P16	900 x 600	P16-1	300Ø SN8 UPVC	7.00	375Ø SN8 UPVC	6.68	7.87	1.19	
		GT1	150Ø SN8 UPVC	- 7 17					
P16-1	600 x 600	POOL OVERFLOW	-	-	300Ø SN8 UPVC	7.15	7.94	0.79	SEASE & SOLID SATIO SOVER
		P18	300Ø SN8 UPVC	6.88					CLASS 'B' SOLID GATIC COVER
P17	900 x 600	GT1	150Ø SN8 UPVC	7.15	375Ø SN8 UPVC	6.86	7.80	0.94	
D10	000 000	GT3	150Ø SN8 UPVC	7.15			7 70		
P18	900 X 600	P20	- 225Ø SN8 UPVC	- 6.81	3000 SN8 UPVC		1.18		CLASS B SOLID GATIC COVER
		GT1	150Ø SN8 UPVC	7.15					
P19	900 x 600	GT1	150Ø SN8 UPVC	7.15	375Ø SN8 UPVC	6.79	7.77	0.98	CLASS 'B' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
		TANK OVERFLOW	-	-					
P20	600 x 600	GT2	225Ø SN8 UPVC	6.95	225Ø SN8 UPVC	6.93		-	CLASS 'B' SOLID GATIC COVER
		G12 P22	300Ø SN8 UPVC	6.95					
P21	900 x 600	P21-1	225Ø SN8 UPVC	-	375Ø CL4 RCP	6.48	7.74	1.26	CLASS 'D' SOLID GATIC COVER
P21-1	600 x 600	P21-2	225Ø SN8 UPVC	-	-	-	7.68	7.68	CLASS 'D' SOLID GATIC COVER
P21-2	600 x 600	-	-	-	-	-	7.65	-	CLASS 'D' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
P22	900 x 600	P23	300Ø SN8 UPVC	6.60	300Ø SN8 UPVC	6.58	7.76	1.09	CLASS 'B' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
P23	900 x 600	P24	3000 SN8 UPVC	6.70 6.80		6.78	/./6 7.81	1.08	
P25	900 x 600	P26	300Ø SN8 UPVC	6.90	300Ø SN8 UPVC	6.88	7.81	0.93	CLASS 'B' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
P26	600 x 600	-	150Ø PIPE	7.00	300Ø SN8 UPVC	6.98	7.81	0.83	CLASS 'B' HEEL-SAFE NON-SLIP GALVANISED GRATED COVER
NOTE	: REINFORC		IPES TO BE FITTEI		R RING JOINTS.				

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OSD CATCHMENT AREA

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AREA DIRECTED TO OSD (17708m²)

AREA BYPASSING OSD (12359m²)

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С	22/04/24	PRELIMINARY ISSUE	JL	JT	JT
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PROJECT

BOTANY AQUATIC CENTRE

DRAWING TITLE

OSD CATCHMENT PLAN

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CONCRETE PILE SCHEDULE						
ТҮРЕ	CFA200	CFA201				
SIZE	750 DIAMETER	600 DIAMETER				
PILE CONCRETE GRADE	40 MPa	40 MPa				
PILE LOAD - WORKING:	1200kN	700 kN				
PILE LOAD - WORKING (kNm)	N/A	50 kNm				
MINIMUM PILE REINFORCEMENT	7-N20, N12-150 LIGS	7-N20, N12-150 LIGS				
INDICATIVE PILE DEPTH	14,000mm BELOW NATURAL SURFACE LEVEL OR 500mm INTO UNIT 4B SOIL TYPE (WHICHEVER IS DEEPER)	14,000mm BELOW NATURAL SURFACE LEVEL OR 500mm INTO UNIT 4B SOIL TYPE (WHICHEVER IS DEEPER)				
NOTES:	 PILING CONTRACTOR SHALL DESIGN THE PILE REQUIRED SAFE WORKING LOADS, AS NOTED ON THESE DRAWINGS AND THE RECOMMENDATION OF THE GEOTECHNICAL REPORT. ALL PILE EMBEDMENT LENGTH ARE INDICATIVE ONLY AND SUBJECT TO D&C CONTRACTORS DESIGN TO ARCHIVE CAPACITIES INDICATED. PILE LOADS ARE WORKING LOADS. AS NOTED IN THE GEOTECHNICAL REPORT, EMBEDMENT DEPTH OF TWO TIMES PILE DIAMETER IS REQUIRED TO CONSIDER SKIN FRICTION. 					

	FOOTING SCHEDULE						
MARK	SIZE LENGTH x WIDTH x MINIMUM DEPTH	REINFORCEMENT	REMARKS				
GB200	800 WIDE x 500 DEEP	5-N16 TOP AND BOTTOM WITH N12-300 LIGS	GROUND BEAM				

<u> </u>	EXPANSION JOINT
() CFA.	CFA PILES
ۍ. دور	LOAD BEARING COLUMN
CW	REINFORCED CONCRET
SD	SPOON DRAIN (600 WIDE
	DIRECTION OF SLOPE
GB	GROUND BEAM

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PROJECT

BOTANY AQUATIC CENTRE

DRAWING TITLE

OSD TANK BOTTOM SLAB AND FOOTING PLAN

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OSD TANK TOP SLAB PLAN SCALE 1:100

WALL SCHEDULE						
MARK	THICKNESS (mm)	GRADE (F'c)	REINFORCEMENT	REMARK		
CW200	250 THICK	40 MPa	N12-150 EACH FACE BOTH WAYS 50 COVER	CONCRETE WALL		

CONCRETE COLUMN SCHEDULE						
MARK	DIMENSIONS	GRADE	REINFORCEMENT			
CC200	450 x 450	40 MPa	8-N20, N12-150 LIGS 50 COVER			
NOTE: REFER TO DRGS. S83 FOR CONCRETE COLUMN DETAILS						

NOTE: LEGEND APPLIES TO ALL STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE

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DEWATERING NOTES:

THE DEWATERING ZONES SHOWN AND THE SUGGESTED SEQUENCING OF WORKS DESCRIBED BELOW ARE INDICATIVE ONLY AND SHALL BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS SITE DEWATERING STRATEGY REPORT ON THE BASIS THAT THE HEAD CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR THE SITE DEWATERING INCLUDING SEQUENCING, METHODOLOGY, MAINTENANCE AND REMOVAL.

TO CLARIFY, THE PURPOSE OF THIS PLAN, THIS NOTE AND THE DOUGLAS PARTNERS REPORT IS TO PROVIDE ASSISTENCE TO THE HEAD CONTRACTOR DURING THE TENDER PROCESS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ASSUMPTIONS, PROCESSES AND PROCEDURES ASSOCIATED WITH SITE DEWATERING TO ENABLE THE CONSTRUCTION OF THE FACILITY IN ACCORDANCE WITH THE CONTRACT DOCUMENTATION AND ALL RELEVANT AUTHORITY GUIDELINES AND REQUIREMENTS.

THE FOLLOWING SEQUENCE OF WORKS IS PROPOSED FOR CONSIDERATION BY THE CONTRACTOR DURING TENDER TO ASSIST WITH THE ESTABLISHMENT OF THE CONTRACTOR'S CONSTRUCTION PROGRAM. AS NOTED ABOVE, THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR THEIR DEVELOPED PROGRAM AND WORKS SEQUENCING.

- 1. CARRY OUT SHEET PILING, DEWATERING AND SUBSEQUENT BULK EXCAVATION FOR ZONE 1 TO ENABLE THE CONSTRUCTION OF THE 50m POOL AND VARIOUS BALANCE TANK STRUCTURES. THE CONTRACTOR SHALL TAKE INTO CONSIDERATION MACHINERY ACCESS INTO THE ZONE 1 AREA TO ACCOMMODATE THE POOL PILING, GENERAL EXACAVTION AND POOL SHELL CONSTRUCTION WORKS.
- 2. UPON COMPLETION OF THE POOL AND BALANCE TANKS SHELL CONSTRUCTION, SUCCESSFUL COMPLETION OF THE SHELL HYDROSTATIC TESTING, INSTALLATION OF POOL HYDRAULIC PIPEWORK SURROUNDING THE POOL WITHIN THE ZONE 1 FOOTPRINT, AND SUBSEQUENTLY RECEIVING APPROVAL FROM CREO CONSULTANTS, PROCEED WITH BACKFILLING AROUND THE PERIMETER OF THE POOL AND BALANCE TANK STRUCTURES AND ASSOCIATED PIPEWORK TO INFILL THE EXCAVATION.
- UPON COMPLETION OF THE BACKFILLING WORKS, REMOVE THE SHEET PILING AND PREPARE WORKS TO ZONE 2.
 REPEAT THE ABOVE FOR ZONE 2.
- 5. UPON COMPLETION OF THE BACKFILLING WORKS, REMOVE THE SHEET PILING AND PREPARE WORKS TO ZONE 3

NOTE THAT THE CONTRACTOR SHALL ALSO CONSIDER ALL NECESSARY TEMPORARY WORKS AND LOCALISED DEWATERING THAT MAY BE REQUIRED TO ENABLE THE TRENCHING AND INSTALLATION OF DEEPER FACILITY IN-GROUND SERVICES PIPEWORK AND CONDUIT.

SITE DEWATERING PLAN

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