

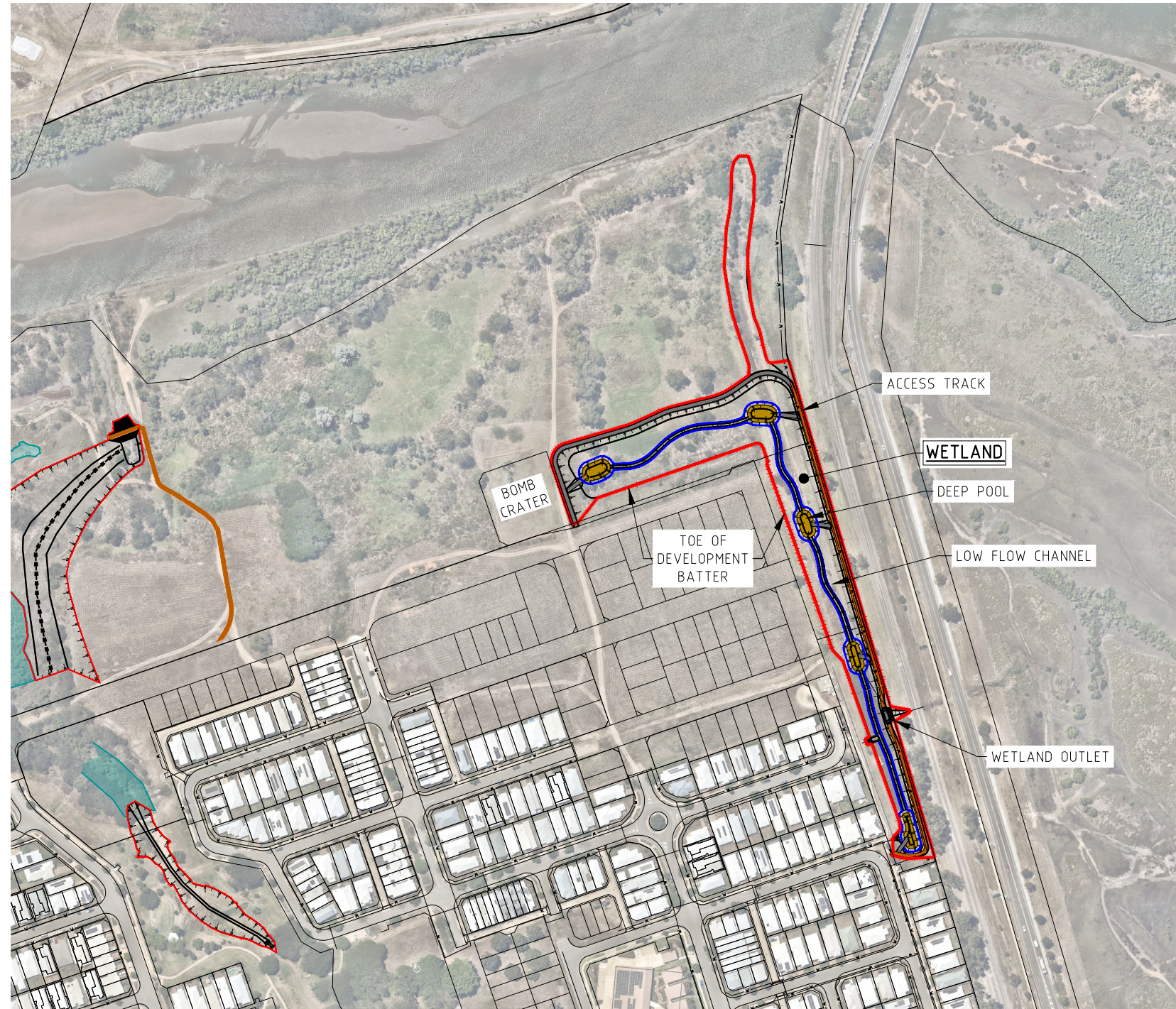
DATE PLOTTED: 29 JUL 2026 BY: STEPHEN TOLPITT

XREF: FILE: C:\08\DESIGN\FLOW\4547 - OONOONBA\4547-EV 001 COVER.DWG

OONOONBA THE VILLAGE WETLANDS

EASTERN WETLAND

CIVIL WORKS



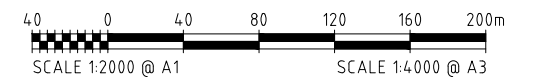
DRAWING LIST

- 4547-EW-001 - COVER SHEET, LOCALITY MAP AND DRAWING LIST
4547-EW-002 - CONSTRUCTION NOTES - SHEET 1 OF 2
4547-EW-003 - CONSTRUCTION NOTES - SHEET 2 OF 2
- 4547-EW-101 - OVERALL LAYOUT PLAN
4547-EW-102 - GENERAL LAYOUT PLAN - SHEET 1 OF 2
4547-EW-103 - GENERAL LAYOUT PLAN - SHEET 2 OF 2
4547-EW-104 - EARTHWORKS SECTIONS SHEET 1 OF 2
4547-EW-105 - EARTHWORKS SECTIONS SHEET 2 OF 2
- 4547-EW-201 - OVERFLOW WEIR DETAILS
4547-EW-202 - WETLAND OUTLET DETAIL
- 4547-EW-301 - MISCELLANEOUS DETAILS

GENERAL NOTES:

- THESE NOTES APPLY TO ALL PROJECT DRAWINGS IN THE SET UNLESS NOTES OTHERWISE AND SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.
- ALL LEVELS ARE IN METRES TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL CO-ORDINATES ARE IN METRES TO MAP AUSTRALIAN GRID (MGA).
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- DIMENSIONS SHALL NOT BE SCALED OFF DRAWINGS.

LOCALITY MAP
SCALE 1:2000 (A1)



C	ISSUED FOR APPROVAL	ST	28.07.26	AC	28.07.26
B	ISSUED FOR APPROVAL	ST	11.05.26	AC	11.05.26
A	ISSUED FOR PRELIMINARY	ST	16.03.26	AC	16.03.26
REVISION	DESCRIPTION	INITIALS	DATE	INITIALS	DATE
		DRAFTED	APPROVED		

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Approved *[Signature]* RPEQ 15637
Date (S. LEINSTER)

CLIENT ECONOMIC DEVELOPMENT QUEENSLAND	PROJECT OONOONBA THE VILLAGE WETLANDS EASTERN WETLAND
DRAWN ST	DATE 28.07.2026
DESIGNED RW	DATE 28.07.2026
SCALE AS SHOWN	A1
PROJECT No 4547	DRAWING No 4547-EW-001
REVISION C	

DATE PLOTTED: 29 July 2028 BY: STEPHEN TOLPUTT

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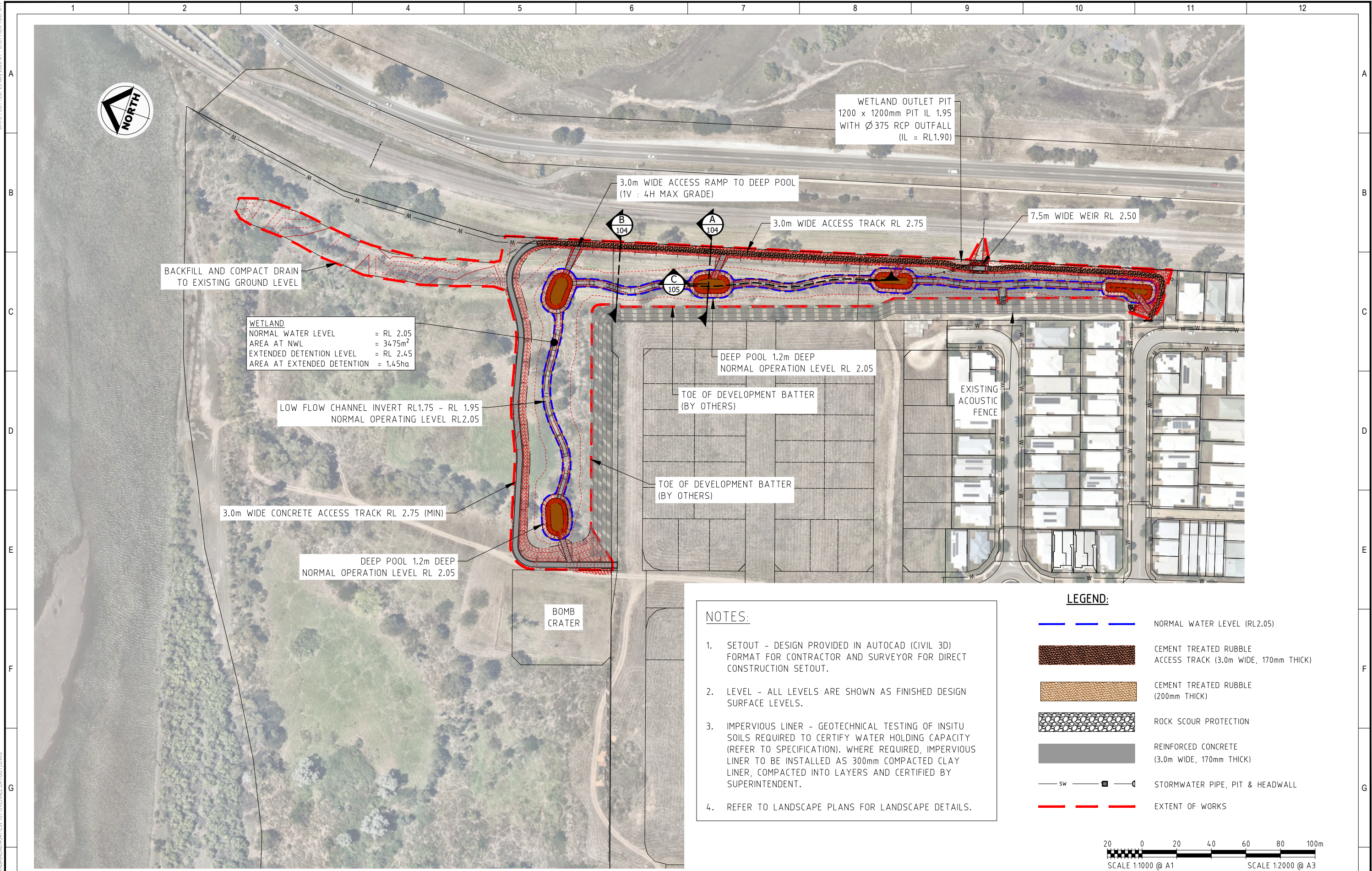
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	CONSTRUCTION NOTES / SPECIFICATIONS:																																																																	
A	ENGINEERING SPECIFICATIONS 1. ALL EARTHWORKS AND CIVIL WORKS TO OCCUR IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS AND MANAGEMENT PLANS: - THESE CONSTRUCTION NOTES/SPECIFICATIONS - TOWNSVILLE CITY COUNCIL STANDARDS AND SPECIFICATIONS. - DEPARTMENT OF TRANSPORT AND MAIN ROADS (TMR) SPECIFICATIONS				CONSTRUCTION INSPECTIONS 1. CONSTRUCTION HOLD-POINTS, COMPLIANCE INSPECTIONS ARE TO BE COMPLETED WITH THE APPROPRIATE PARTIES IN ATTENDANCE AS IDENTIFIED IN THE CONSTRUCTION SPECIFICATION AND THE WSUD CONSTRUCTION AND ESTABLISHMENT GUIDELINE (WATER BY DESIGN, CURRENT VERSION). 2. CRITICAL HOLD-POINTS FOR CONSTRUCTION ARE: A. PRESTART B. EARTHWORKS C. BUNDS AND IMPERVIOUS LINER D. HYDRAULIC STRUCTURES E. TOPSOIL AND FINISHED LEVELS F. LANDSCAPE INSTALLATION AND ESTABLISHMENT 3. THE CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING AN INDEPENDENT SURVEYOR TO PROVIDE ALL AS-CONSTRUCTED SURVEY TO COMPLY WITH THE CONSTRUCTION TOLERANCES TO DESIGN LEVEL AND COUNCILS ADAC REQUIREMENTS. AS CONSTRUCTION SURVEY TO BE PROVIDED BY AN INDEPENDENT SURVEYOR AT ALL HOLD POINTS IDENTIFIED IN THESE CONSTRUCTION NOTES. FINAL AS CONSTRUCTED TO BE PROVIDED IN ACAD AND ADAC FORMAT TO BE SUBMITTED TO COUNCIL.				SOIL MANAGEMENT 1. THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE STATE PLANNING POLICY (2017) AND ENVIRONMENTAL PROTECTION ACT (1994). 2. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AN EROSION & SEDIEMNT CONTROL PLAN FOR THESE WORKS. THE PLAN IS TO BE CERTIFIED BY A CPESC. 3. CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. 4. IMMEDIATELY FOLLOWING EARTHWORKS ALL EXPOSED SURFACES SHALL BE REVEGETATED WITH STERILE GRASSES (E.G. HYDROSEED). IN ADDITION AN EROSION AND SEDIMENT CONTROL PLAN IS REQUIRED AS FOR ANY MAJOR CONSTRUCTION WORKS. 5. FOLLOWING THE FIRST FEW RAINFALL EVENTS, THE INLET AND OUTLET TO WETLANDS MUST BE INSPECTED TO ENSURE EROSION PROTECTION MEASURES ARE SUFFICIENT. 6. STABILISE BATTERS AND CHANNELS AS PER DESIGNS IMMEDIATELY FOLLOWING CONSTRUCTION. 7. PROVIDE TEMPORARY SEDIMENT TRAPS AT OUTLETS TO DRAINAGE CHANNELS DURING CONSTRUCTION. 8. WORKS MUST BE INSPECTED AND CERTIFIED BY A CPESC ON A FORTNIGHTLY BASIS.																																																									
B	GENERAL NOTES 1. WSUD SYSTEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE "WATER SENSITIVE URBAN DESIGN CONSTRUCTION AND ESTABLISHMENT GUIDELINES - SWALES, BIORETENTION SYSTEMS AND WETLANDS" (WATER BY DESIGN, 2010 OR LATER VERSION) HEREAFTER REFERRED TO AS THE WSUD CONSTRUCTION AND ESTABLISHMENT GUIDELINE (WATER BY DESIGN, CURRENT VERSION). 2. WSUD SYSTEMS ARE TO BE PROTECTED FROM CONSTRUCTION PHASE SEDIMENT LOADS IN ACCORDANCE WITH THE WSUD CONSTRUCTION ESTABLISHMENT GUIDELINES (WATER BY DESIGN, CURRENT VERSION). PROTECTIVE MEASURES TO BE REGULARLY CHECKED FOR INTEGRITY. 3. ALL DESIGN LEVELS SHOWN ARE FINISHED SURFACE LEVELS. BULK EARTHWORKS TO ALLOW FOR PLACEMENT OF TOPSOIL, CONCRETE AND ROCK PROTECTION AS SHOWN ON DRAWINGS. 4. ANY VARIATION TO THE DETAILS SHOWN ON THE DRAWING MUST BE AUTHORISED BY THE SUPERINTENDENT PRIOR TO FABRICATION AND/OR CONSTRUCTION. 5. ALL PROPRIETARY AND PRE-CAST PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH COUNCIL, TMR AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. 6. FOR ALL VEGETATION AND LANDSCAPE DETAILS, REFER TO LANDSCAPE DRAWINGS. 7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED. 8. ALL R.L.'s, I.L.'s AND F.S.L.'s ARE IN METRES AHD. 9. DIMENSIONS, AREAS AND VOLUMES MUST NOT BE SCALED OFF DRAWINGS. MUST USE DIMENSIONS WRITTEN ON DRAWINGS AND DIGITAL INFORMATION.																																																																	
C	SURVEY 1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). 2. THE CONTRACTOR SHALL CONFIRM EXISTING LEVELS, FEATURES AND UTILITIES PRIOR TO CONSTRUCTION. 3. ALL ELEMENTS OF PROPOSED WORK TO BE SETOUT AND CHECKED BY THE CONTRACTOR'S LICENSED SURVEYOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE SUPERINTENDENT. 4. ALL WORKS SHALL BE SET OUT AND PEGGED WITH CLEAR MARKINGS PRIOR TO COMMENCING EARTHWORKS. SETOUT SHALL BE STRICTLY IN ACCORDANCE WITH THE DRAWINGS, MANUFACTURERS INSTALLATION GUIDELINES AND DATA PROVIDED TO THE CONTRACTOR. SET OUT SHALL BE INSPECTED AND APPROVED BY THE SITE SUPERINTENDENT PRIOR TO COMMENCEMENT WITH ANY POTENTIAL DISCREPANCIES AND/OR CONFLICTS RAISED AT THE EARLIEST CONVENIENCE.																																																																	
D	TEMPORARY WORKS 1. WITHIN A REASONABLE TIME (AND IN ANY CASE NOT LESS THAN SEVEN DAYS) BEFORE THE CONTRACTOR INTENDS TO COMMENCE THE CONSTRUCTION OF ANY TEMPORARY WORKS, THE CONTRACTOR SHALL SUBMIT FULL PARTICULARS OF THE SAME (INCLUDING DRAWINGS AND NECESSARY CALCULATIONS) FOR APPROVAL BY THE SITE SUPERINTENDENT. THE SUBMISSION OF AND APPROVAL BY THE SITE SUPERINTENDENT OF ANY SUCH PARTICULARS SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES UNDER THE CONTRACT 2. THE CONTRACTOR SHALL CONSTRUCT, OPERATE AND MAINTAIN ALL TEMPORARY WORKS SUCH AS SHORING, SHEET PILING, PUMPING AND WELL POINT DE-WATERING THAT MAY BE REQUIRED TO CONSTRUCT THE WORKS. 3. THE CONTRACTOR SHALL PROVIDE, MAINTAIN AND OPERATE TEMPORARY DRAINAGE AND/OR PUMPING FACILITIES REQUIRED TO CONTROL GROUND AND SURFACE WATER TO KEEP EXCAVATIONS DRY AND IN A STABLE CONDITION. THE CONTRACTORS DEWATERING OPERATIONS SHALL BE ACCOMPLISHED IN A MANNER THAT WILL NOT ADVERSELY AFFECT THE STABILITY OF EXCAVATED SLOPES AND WILL NOT CAUSE EROSION AND SOFTENING OF ADJACENT MATERIALS. 4. THE DISCHARGE OF ANY DEWATERING SYSTEM SHALL BE DIRECTED SO THAT IT WILL SAFELY DRAIN AWAY AND NOT CAUSE EROSION, DAMAGE OR ENVIRONMENTAL HARM. 5. THE CONTRACTORS ATTENTION IS DRAWN TO THE POTENTIAL FOR GROUNDWATER INGRESS IN EXCAVATIONS. 6. THE RATE FOR NECESSARY TEMPORARY WORKS IN REGARDS TO REMOVAL AND DISPOSAL OF WATER IS DEEMED TO BE INCLUDED IN THE CONTRACTOR'S RATES. 7. THE CONTRACTOR IS RESPONSIBLE FOR THE SUFFICIENCY FOR KEEPING WORKS SAFE AT ALL TIMES. 8. THE CONTRACTOR SHALL MAKE SAFE AND RE-INSTATE ALL AREAS AFFECTED BY TEMPORARY WORKS																																																																	
E																																																																		
F									COMPACTION 1. FILL SHALL BE PLACED AND COMPACTED IN HORIZONTAL LAYERS WITH A COMPACTED THICKNESS NOT EXCEEDING 200MM 2. ALL FILL MATERIAL; AFTER PLACING, SPREADING AND LEVELLING TO THE APPROPRIATE LAYER THICKNESS, SHALL BE MOISTURE CONDITIONED SUITABLE FOR MAXIMUM COMPACTION (+/-2% OF OPTIMUM MOISTURE CONTENT) AND THEN BE THOROUGHLY COMPACTED BY ROLLING 3. COMPACTION SHALL MEET THE FOLLOWING REQUIREMENTS: a. EMBANKMENTS AND UNDER STRUCTURES: 95% MAXIMUM DRY DENSITY USING MODIFIED COMPACTIVE EFFORT —AS 1289-5.2.1 b. PERMANENT ACCESS TRACKS: 98% MAXIMUM DRY DENSITY USING MODIFIED COMPACTIVE EFFORT —AS1289-5.2.1 c. OTHER: 95% MAXIMUM DRY DENSITY USING STANDARD COMPACTIVE EFFORT AS1289-5.1.1																																																									
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A	IMPERMEABLE LINER (CLAY) 1. THE IMPERMEABLE LINER MUST ACHIEVE THE REQUIRMENTS OF THESE SEPCIFICATION. LEVEL 1 GEOTECH SUPERVISION AND CERTIFICATION OF IMPERMEABLE LINER MUST OCCUR. 2. THE CONTRACTOR IS TO SEEK SUPPORT OF A QUALIFIED GEOTECHNICAL ENGINEER TO COMPLETE TESTING OF IN-SITU SOILS. IF THE TESTING CONFIRMS THE IN-SITU CLAY MEETS THIS SPECIFICATION (WITH COMPACTION OR OTHER AMENDMENTS) THEN THE IN-SITU CLAYS CAN BE USED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERS ADVICE (AND LEVEL 1 CERTIFICATION PROVIDED BY THE GEOTECHNICAL ENGINEER). IF THE INSITU SOILS DO NOT MEET THIS SPECIFICATION THEN AN IMPORTED CLAY LINER IS REQUIRED TO THE BASE OF WSUD SYSTEMS AS SHOWN ON DRAWINGS. 3. THE CLAY LINER WILL BE 300 MM THICK COMPACTED TO 95% SMDD AS PER AS1289 METHOD 5.1.1 (+/- 2% FROM OPTIMUM MOISTURE CONTENT) AND SHALL ACHIEVE A MAXIMUM PERMEABILITY OF 1X 10-9 M/SEC IN ACCORDANCE WITH AS1289 6.7.1. THE CLAY SHALL GENERALLY ACHIEVE THE FOLLOWING: - CONSIST OF PREDOMINATELY CLAYEY SOILS - FREE OF ORGANIC MATERIAL (INCLUDING VEGETATION AND TOPSOIL) - FREE OF RUBBLE AND DELETERIOUS MATERIAL - GREATER THEN 40% PASSING THE 75 MICRON SIEVE, PREDOMINATELY CONSISTING CLAY FRACTION - LIQUID LIMIT - 35-55% WHEN TESTED IN ACCORDANCE WITH AS1289 3.1.2 - PLASTICITY INDEX - 15-45% WHEN TESTED IN ACCORDANCE WITH AS1289.3.2.1 - NON-DISPERSIVE (EMERSON CLASS >5) 4. THE CLAY LINER IS TO BE CONSTRUCTED IN TWO LAYERS EACH OF 150mm MINIMUM THICKNESS OR AS ADVISED IN WRITING BY A QUALIFIED GEOTECHNICAL ENGINEER. 5. CLAY LINER IS TO BE SOURCED FROM CLAY ON SITE WHERE POSSIBLE. 6. ALTERNATIVE LINER PRODUCTS/MATERIALS (EG. ECOSEAL, BENTOFIX OR SIMILAR) MAY BE CONSIDERED AND APPROVED BY SUPERINTENDENT AND TO BE INSTALLED IN ACCORDANCE WITH SUPPLIERS SPECIFICATIONS AND APPROPRIATELY TESTED TO ENSURE WATERTIGHT. THE LINER IS TO BE KEYED/ANCHORED INTO BATTERS IN ACCORDANCE WITH SUPPLIER'S SPECIFICATIONS. LEVEL 1 CERTIFICATION FROM A QUALIFIED GEOTECHNICAL ENGINEER IS REQUIRED TO SHOW THE LINER IS INSTALLED CORRECTLY AND WATERTIGHT (WITH MAXIMUM PERMEABILITY OF 1x 10-9 m/sec) 7. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM SOURCE OF CLAY OR ALTERNATIVE AS PART OF THE TENDER AND INCLUDE QUANTITIES AND COST. 8. ALL PERFORATIONS (PIPES) THROUGH LINER MUST BE SEALED WATER TIGHT.				CONCRETE 1. CONCRETE TO BE A MINIMUM GRADE N32 IN ACCORDANCE WITH AS1379 AND AS3600 2. CONCRETE CONSTRUCTION TO COMPLETED WITH THE REQUIREMENTS OF AS3600. 3. REINFORCEMENT MESH TO COMPLETED WITH AS4671-2001 STEEL REINFORCING MATERIALS, 50 TOP AND EDGE COVER, LAP MESH 250.																																																							
B																																																												
C					DRAINAGE PIPES AND PITS 1. ALL DRAINAGE WORKS TO OCCUR IN ACCORDANCE WITH TMR MRTS03 AS3600, MRTS70, MRTS24 AND MRTS25. 2. ALL HEADWALLS TO MEET THE ENGINEERING SPECIFICATIONS OF MRTS72. 3. DRAINS TO BE INSPECTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO BACK FILLING 4. ALL CONSTRUCTED PIPEWORK SHALL BE FLUSHED AND CLEANED AT THE COMPLETION OF WORKS TO THE SUPERINTENDENT'S APPROVAL, UNLESS NOTED OTHERWISE. 5. ALL PITS SHALL HAVE MASS CONCRETE SHAPED BASES FOR SMOOTH HYDRAULIC CONVEYANCE TO THE SUPERINTENDENT'S APPROVAL. PIT WALLS MUST BE SMOOTH ON INNER AND OUTER SIDE (FORMED). 6. ALL GRATED PITS SHALL BE HINGED AND PROVIDED WITH HANDLE TO OPEN AND A SECURE LOCK DOWN SYSTEM. 7. ALL LIDS TO PITS (WITH NO GRATE) ARE TO BE TRAFFICABLE BY LIGHT VEHICLES AND LOCKABLE 8. ALL STORMWATER PIPES AND CULVERTS INCLUDING HEADWALLS SHALL BE CLASS 2 EXPOSURE CLASS C STEEL REINFORCED CONCRETE PIPE UNLESS NOTED OTHERWISE. 9. ALL PIPE CONNECTIONS INTO PITS TO BE PROPERLY SEALED. 10. ALL PIPES THROUGH CLAY LINER AND BUND MUST BE SEALED WITH CLAY AND WATER TIGHT (I.E. REMOVE BEDDING LAYER AND SEAL)																																																							
D	TOPSOIL 1. TOPSOIL TO CONFORM TO AS4419 - 2018 'SOILS FOR LANDSCAPING AND GARDEN USE'. I.E. TOPSOIL SHALL BE FREE OF ANY DELETERIOUS MATTER INCLUDING SUB-SOIL, TURF, WEEDS, STICKS AND ROOTS, STONES OVER 25 mm DIAMETER AND ANY MATERIAL TOXIC TO PLANT GROWTH. ACIDITY RANGE SHALL BE PH 6-7 OR AS RECOMMENDED BY AN AGRONOMIST. USE OF EXISTING (OR AMELIORATED) SITE TOPSOIL IS SUBJECT TO APPROVAL BY AGRONOMIST AND SITE SUPERINTENDENT. 2. WHERE DIRECTED, SITE TOPSOIL MAY NEED MAY NEED FURTHER IMPROVEMENT BEFORE SUITABILITY FOR USE ON THIS PROJECT. THE CONTRACTOR MUST CONSULT WITH A SOIL SCIENTIST / AGRONOMIST TO CONFIRM THE CONDITION OF THE STOCKPILED TOPSOIL AND THE AMELIORATION REQUIRED. SOIL SCIENTIST / AGRONOMIST IS TO CONFIRM THE SUITABILITY OF THE AMELIORATED TOPSOIL PRIOR TO PLACEMENT AND CERTIFY THE FINAL TOPSOIL QUALITY IS FIT FOR PURPOSE. 3. PLACED TOPSOIL SHALL BE LIGHTLY COMPACTED SO THAT THE FINISHED SURFACE IS SMOOTH AT THE REQUIRED LEVELS READY FOR PLANTING. 4. TOPSOIL DEPTH TO BE 200mm (MIN.) UNLESS NOTED OTHERWISE.				ROCK SCOUR PROTECTION 1. ALL ROCK TO BE IGNEOUS, CRUSHED AND ANGULAR (NOT SMOOTH). PLACED AND SECURED TO RESIST MOVEMENT. 2. NOMINAL ROCK SIZE (D50) REFER TO THE EQUIVALENT DIAMETER FOR WHICH 50% OF THE ROCK (BY VOLUME) ARE EQUAL TO OR SMALLER THAN. THE MAXIMUM ROCK SIZE TO BE NO GREATER THAN 1.5 X D50.																																																							
E					<table><tr><td>EQUIVALENT SPHERICAL DIAMETER</td><td>% BY WEIGHT OF ROCK SMALLER SIZE</td></tr><tr><td>1.5 - 2.0 D50</td><td>100</td></tr><tr><td>D50</td><td>50</td></tr><tr><td>0.3 - 0.4 D50</td><td>10 - 20</td></tr></table>								EQUIVALENT SPHERICAL DIAMETER	% BY WEIGHT OF ROCK SMALLER SIZE	1.5 - 2.0 D50	100	D50	50	0.3 - 0.4 D50	10 - 20																																								
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F	TOLERANCES 1. THE BASE AND FINISHED SURFACE OF WSUD SYSTEMS SHALL BE FREE FROM LOCALISED DEPRESSIONS AND LOW POINTS. 2. CONSTRUCTION TOLERANCES REQUIRED FOR THE WORKS ARE AS PER TABLE 1.				SERVICES 1. CONTRACTOR MUST RECONFIRM LOCATION OF SERVICE PRIOR TO CONSTRUCTION VIA DIAL BEFORE YOU DIG. 2. CONSTRUCTOR MUST AVOID SERVICES IN ACCORDANCE WITH RELEVANT SERVICE SUPPLIER REQUIREMENTS. 3. WHERE A SERVICE CLASH IS IDENTIFIED, CONSULT WITH SUEPRINTENDENT REGARDING POTENTIAL SOLUTION.																																																							
G	TABLE 1: CONSTRUCTION TOLERANCES <table><tr><th>CONSTRUCTION ELEMENT</th><th>TOLERANCE (mm)</th><th>METHOD FOR COMPLIANCE</th></tr><tr><td>HYDRAULIC STRUCTURES</td><td>15</td><td>SURVEY *</td></tr><tr><td>ACCESS TRACKS</td><td>10</td><td>SURVEY *</td></tr><tr><td>EARTHWORKS</td><td>50</td><td>SURVEY *</td></tr><tr><td>EMBANKMENTS AND BUNDS</td><td>15 (UP TO 50 HIGHER)</td><td>SURVEY *</td></tr></table> × LAND OR ENGINEERING SURVEY BY QUALIFIED SURVEYOR				CONSTRUCTION ELEMENT	TOLERANCE (mm)	METHOD FOR COMPLIANCE	HYDRAULIC STRUCTURES	15	SURVEY *	ACCESS TRACKS	10	SURVEY *	EARTHWORKS	50	SURVEY *	EMBANKMENTS AND BUNDS	15 (UP TO 50 HIGHER)	SURVEY *	ACCESS ROADS 1. ACCESS TRACKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH RELEVANT STANDARD SPECIFICATIONS (QUEENSLAND DEPARTMENT OF TRANSPORT AND MAIN ROADS & T.C.C.). 2. ROAD BASE MATERIAL SHALL BE TYPE 2.3 WITH 2% CROSSFALL. 3. WHERE DIRECTED, ROAD BASE MATERIAL SHALL BE CEMENT STABILISED (4% BY DRY WEIGHT) OR APPROVED EQUIVALENT.																																								
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H	<table><tr><td>C</td><td>ISSUED FOR APPROVAL</td><td>ST</td><td>28.07.26</td><td>AC</td><td>28.07.26</td></tr><tr><td>B</td><td>ISSUED FOR APPROVAL</td><td>ST</td><td>11.05.26</td><td>AC</td><td>11.05.26</td></tr><tr><td>A</td><td>ISSUED FOR PRELIMINARY</td><td>ST</td><td>16.03.26</td><td>AC</td><td>16.03.26</td></tr><tr><td>REVISION</td><td>DESCRIPTION</td><td>INITS</td><td>DATE</td><td>INITS</td><td>DATE</td></tr><tr><td></td><td></td><td>DRAFTED</td><td></td><td>APPROVED</td><td></td></tr></table>	C	ISSUED FOR APPROVAL	ST	28.07.26	AC	28.07.26	B	ISSUED FOR APPROVAL	ST	11.05.26	AC	11.05.26	A	ISSUED FOR PRELIMINARY	ST	16.03.26	AC	16.03.26	REVISION	DESCRIPTION	INITS	DATE	INITS	DATE			DRAFTED		APPROVED		ISSUED FOR APPROVAL NOT FOR CONSTRUCTION	THIS DRAWING IS COPYRIGHT TO DESIGNFLOW. NO PART OF THIS DRAWING INCLUDING THE WHOLE OF SAME SHALL BE USED FOR ANY OTHER PURPOSE NOR BY ANY OTHER THIRD PARTY WITHOUT THE WRITTEN CONSENT OF DESIGNFLOW. DESIGNFLOW	7 BAUER STREET, SOUTHPORT QLD 4215 P.O. BOX 1250 SOUTHPORT BC, SOUTHPORT QLD 4215 Ph: (07) 5528 1148 www.designflow.net.au Approved RPEQ Date	<table><tr><td>CLIENT</td><td>ECONOMIC DEVELOPMENT QUEENSLAND</td><td>PROJECT</td><td>OOONONBA THE VILLAGE WETLANDS EASTERN WETLAND</td></tr><tr><td>DRAWN</td><td>ST</td><td>DATE</td><td>28.07.2026</td></tr><tr><td>DESIGNED</td><td>RW</td><td>DATE</td><td>28.07.2026</td></tr><tr><td>SCALE</td><td></td><td>A1</td><td></td></tr></table>	CLIENT	ECONOMIC DEVELOPMENT QUEENSLAND	PROJECT	OOONONBA THE VILLAGE WETLANDS EASTERN WETLAND	DRAWN	ST	DATE	28.07.2026	DESIGNED	RW	DATE	28.07.2026	SCALE		A1		<table><tr><td>DRAWING TITLE</td><td>CONSTRUCTION NOTES - SHEET 2 OF 2</td></tr><tr><td>PROJECT No</td><td>4547</td><td>DRAWING No</td><td>4547-EW-003</td><td>REVISION</td><td>C</td></tr></table>	DRAWING TITLE	CONSTRUCTION NOTES - SHEET 2 OF 2	PROJECT No	4547	DRAWING No	4547-EW-003	REVISION	C
C	ISSUED FOR APPROVAL	ST	28.07.26	AC	28.07.26																																																							
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THE BLOCK

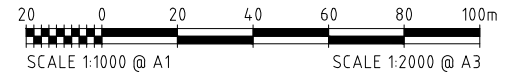


NOTES:

1. SETOUT - DESIGN PROVIDED IN AUTOCAD (CIVIL 3D) FORMAT FOR CONTRACTOR AND SURVEYOR FOR DIRECT CONSTRUCTION SETOUT.
2. LEVEL - ALL LEVELS ARE SHOWN AS FINISHED DESIGN SURFACE LEVELS.
3. IMPERVIOUS LINER - GEOTECHNICAL TESTING OF INSITU SOILS REQUIRED TO CERTIFY WATER HOLDING CAPACITY (REFER TO SPECIFICATION). WHERE REQUIRED, IMPERVIOUS LINER TO BE INSTALLED AS 300mm COMPACTED CLAY LINER, COMPACTED INTO LAYERS AND CERTIFIED BY SUPERINTENDENT.
4. REFER TO LANDSCAPE PLANS FOR LANDSCAPE DETAILS.

LEGEND:

- — — — — NORMAL WATER LEVEL (RL2.05)
- CEMENT TREATED RUBBLE ACCESS TRACK (3.0m WIDE, 170mm THICK)
- CEMENT TREATED RUBBLE (200mm THICK)
- ROCK SCOUR PROTECTION
- REINFORCED CONCRETE (3.0m WIDE, 170mm THICK)
- SW — — — — — STORMWATER PIPE, PIT & HEADWALL
- — — — — EXTENT OF WORKS



REVISION	DESCRIPTION	INITIALS	DATE	INITIALS	DATE
C	ISSUED FOR APPROVAL	ST	28.07.26	AC	28.07.26
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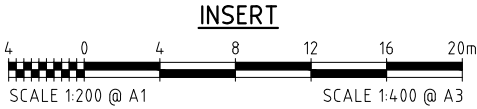
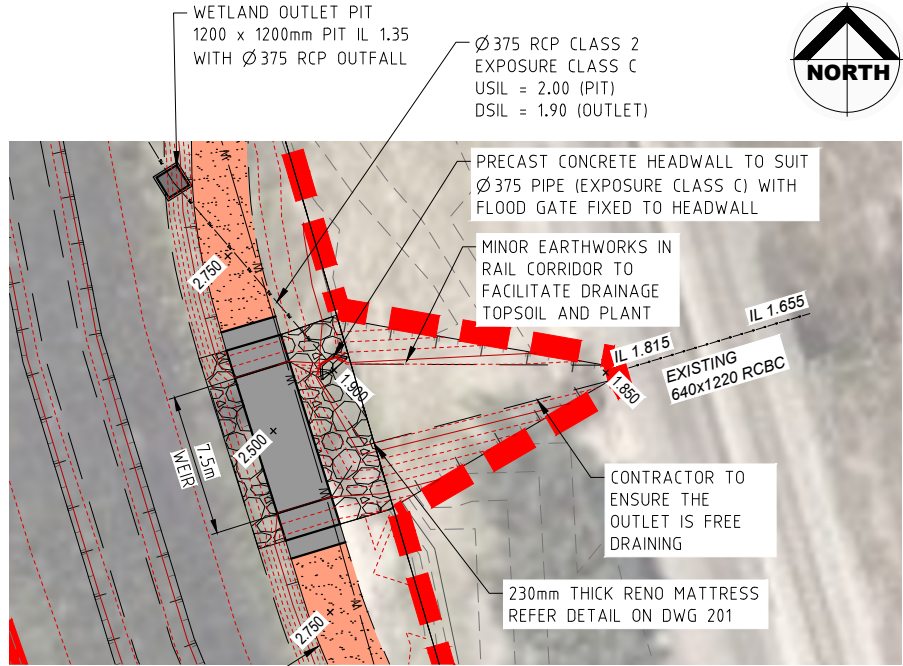
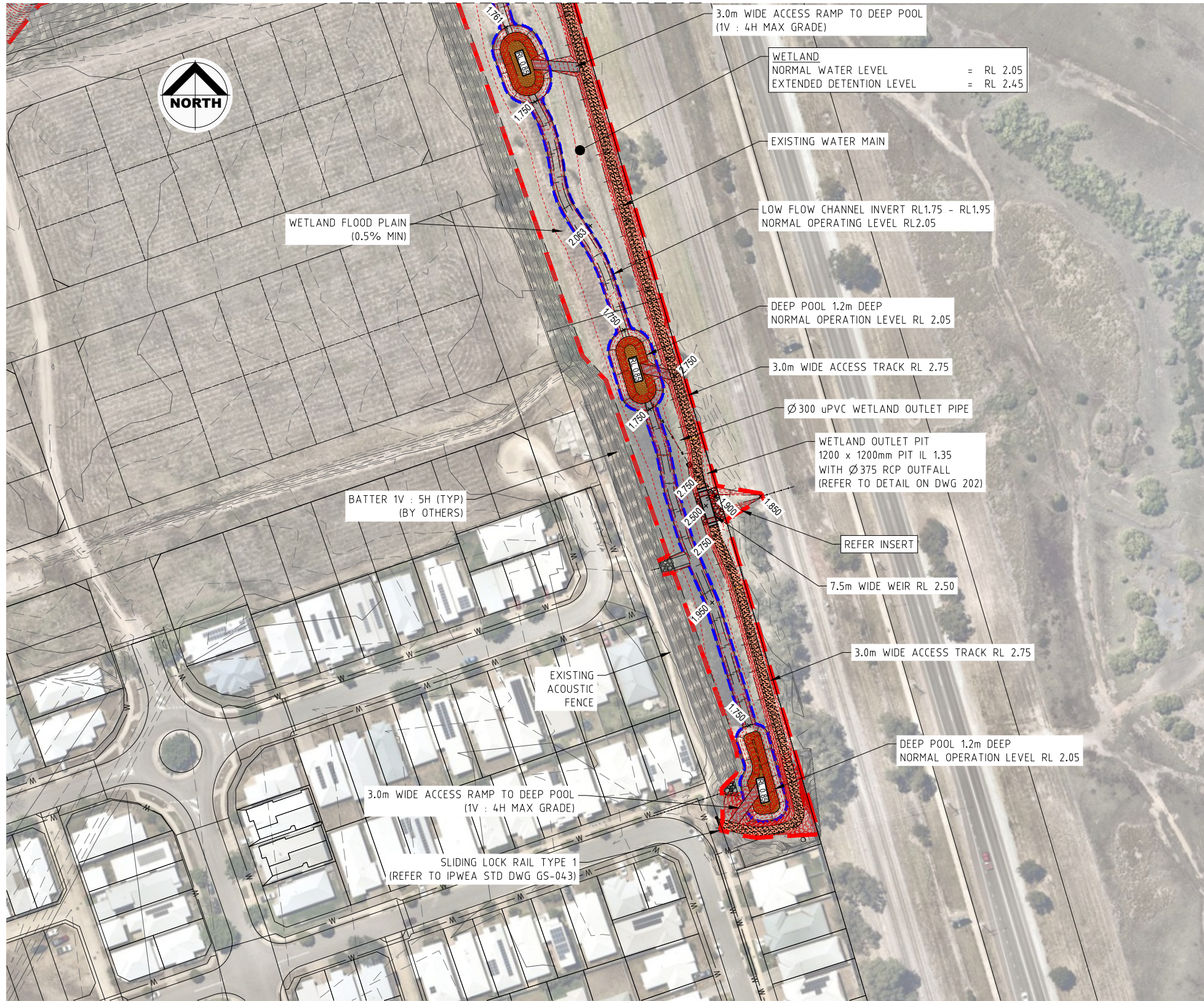
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CLIENT	ECONOMIC DEVELOPMENT QUEENSLAND	PROJECT	OONOONBA THE VILLAGE WETLANDS EASTERN WETLAND
DRAWN	ST	DATE	28.07.2026
DESIGNED	RW	DATE	28.07.2026
SCALE	AS SHOWN	A1	
PROJECT No	4547	DRAWING No	4547-EW-101
REVISION	C		

DATE PLOTTED: 28 JUL 2026 BY: STEPHEN TOLPITT

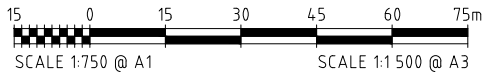
XREF: FILE: C:\OBS\DESIGN\FLOW\4547 - OONOONBA\ACAD\4547-EW 102 (GENERAL LAYOUT).DWG



NOTE:
AN EXISTING WATER MAIN IS LOCATED IN THE VICINITY OF THE WETLAND OUTLET. CARE TO BE TAKEN TO AVOID ANY DAMAGE DURING CONSTRUCTION.

LEGEND:

- 5.0 EXISTING SURFACE CONTOURS (0.2m INTERVALS)
- 4.0 DESIGN SURFACE CONTOURS (0.1m INTERVALS)
- NORMAL WATER LEVEL (RL2.05)
- CEMENT TREATED RUBBLE ACCESS TRACK (3.0m WIDE, 170mm THICK)
- CEMENT TREATED RUBBLE (200mm THICK)
- ROCK SCOUR PROTECTION
- REINFORCED CONCRETE (3.0m WIDE, 170mm THICK)
- SW STORMWATER PIPE, PIT & HEADWALL
- EXTENT OF WORKS



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CLIENT ECONOMIC DEVELOPMENT QUEENSLAND	PROJECT OONOONBA THE VILLAGE WETLANDS EASTERN WETLAND
DRAWN ST 28.07.2026	DRAWING TITLE GENERAL LAYOUT PLAN - SHEET 1 OF 2
DESIGNED RW 28.07.2026	PROJECT No 4547
SCALE AS SHOWN	DRAWING No 4547-EW-102
A1	REVISION C

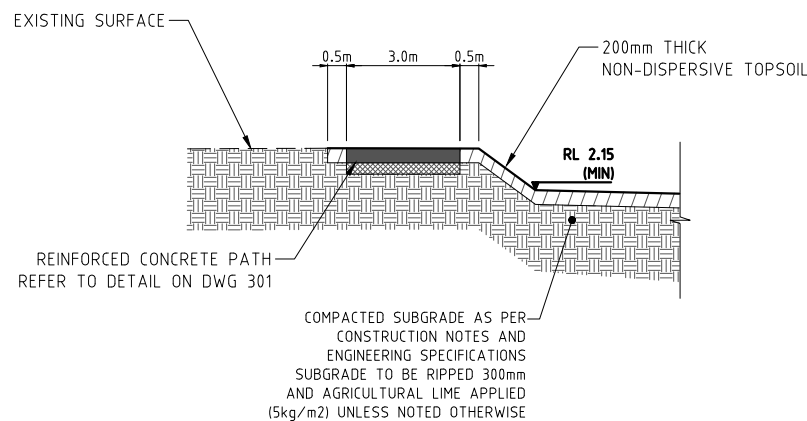
DATE PLOTTED: 28 JUL 2026 BY: STEPHEN TOLPUTT

XREF: FILE: C:\00BDS\DESIGNFLOW\4547 - OONOONBA\ACAD\4547-EW 102 (GENERAL LAYOUT).DWG



LEGEND:

- 5.0 EXISTING SURFACE CONTOURS (0.2m INTERVALS)
- 4.0 DESIGN SURFACE CONTOURS (0.1m INTERVALS)
- NORMAL WATER LEVEL (RL 2.05)
- CEMENT TREATED RUBBLE ACCESS TRACK (3.0m WIDE, 170mm THICK)
- CEMENT TREATED RUBBLE (200mm THICK)
- ROCK SCOUR PROTECTION
- REINFORCED CONCRETE (3.0m WIDE, 170mm THICK)
- SW STORMWATER PIPE, PIT & HEADWALL
- EXTENT OF WORKS



SECTION
SCALE H 1 : 100 (A1)
V 1 : 50

15 0 15 30 45 60 75m
SCALE 1:750 @ A1 SCALE 1:1 500 @ A3

REVISION	DESCRIPTION	INITIALS	DATE	INITIALS	DATE
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CLIENT	ECONOMIC DEVELOPMENT QUEENSLAND
DRAWN	ST
DATE	28.07.2026
DESIGNED	RW
DATE	28.07.2026
SCALE	AS SHOWN

PROJECT	OONOONBA THE VILLAGE WETLANDS EASTERN WETLAND
DRAWING TITLE	GENERAL LAYOUT PLAN - SHEET 2 OF 2
PROJECT No	4547
DRAWING No	4547-EW-103
REVISION	C

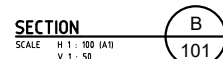
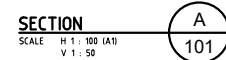


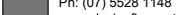
Figure 1.1 shows two graphical scales. The top scale is for A1 paper (5m) with a 1:50 scale at the start and 1:100 scale for the rest. The bottom scale is for A3 paper (10m) with a 1:100 scale at the start and 1:200 scale for the rest.

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CLIENT ECONOMIC DEVELOPMENT QUEENSLAND		PROJECT OONONBA THE VILLAGE WETLANDS EASTERN WETLAND	
DRAWN ST	DATE 28.07.2026	DRAWING TITLE EARTHWORKS SECTIONS SHEET 1 OF 2	
DESIGNED RW	DATE 28.07.2026		
SCALE AS SHOWN	A1	PROJECT No 4547	DRAWING No 4547-EW-104
		REVISION C	



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A	ISSUED FOR PRELIMINARY	ST	16.03.26	AC	16.03.26
REVISION	DESCRIPTION	INITS	DATE	INITS	DATE
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DRAWN ST	DATE 28.07.2026	DRAWING TITLE EARTHWORKS SECTIONS SHEET 2 OF 2	
DESIGNED RW	DATE 28.07.2026		
SCALE AS SHOWN	A1	PROJECT No 4547	DRAWING No 4547-EW-105
		REVISION C	

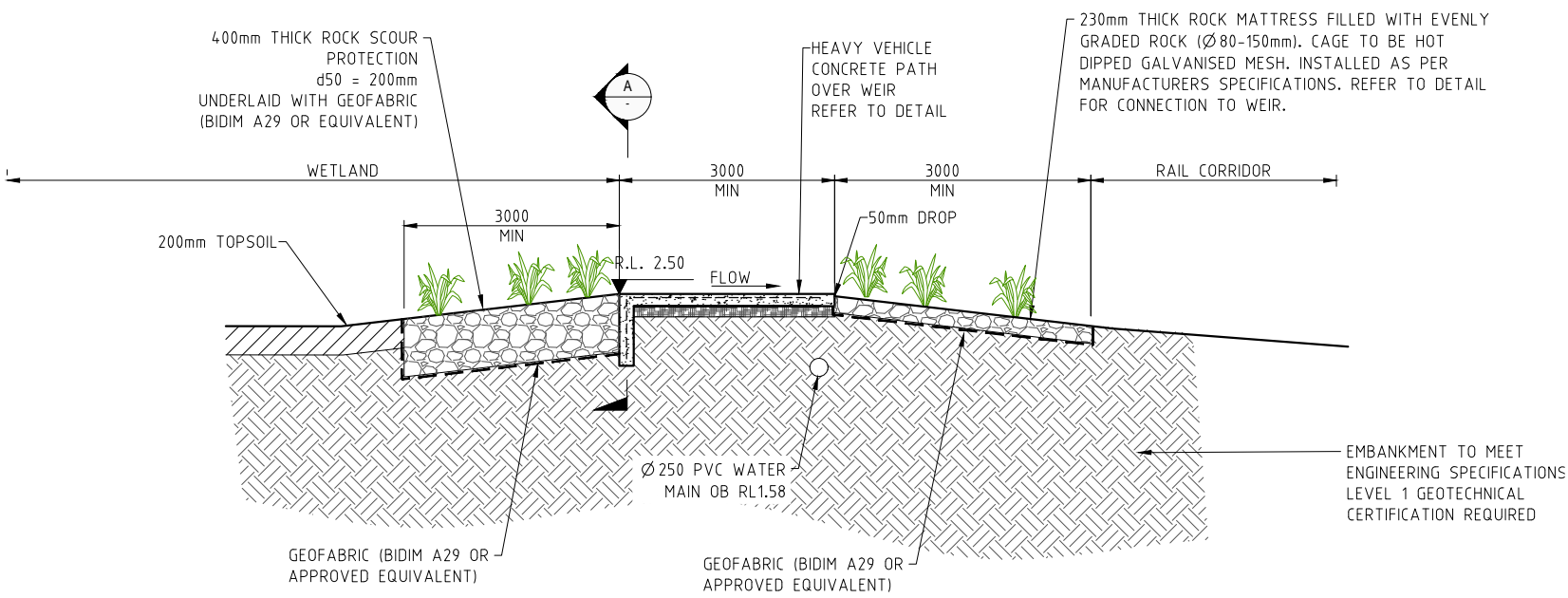
DATE PLOTTED: 28 JUL 2026 BY: STEPHEN TOLPUTT

XREF: FILE: C:\06\DESIGN\FLOW\4547 - OONONBA\ACAD\4547-EW-201 (WEIR).DWG

NOTES:

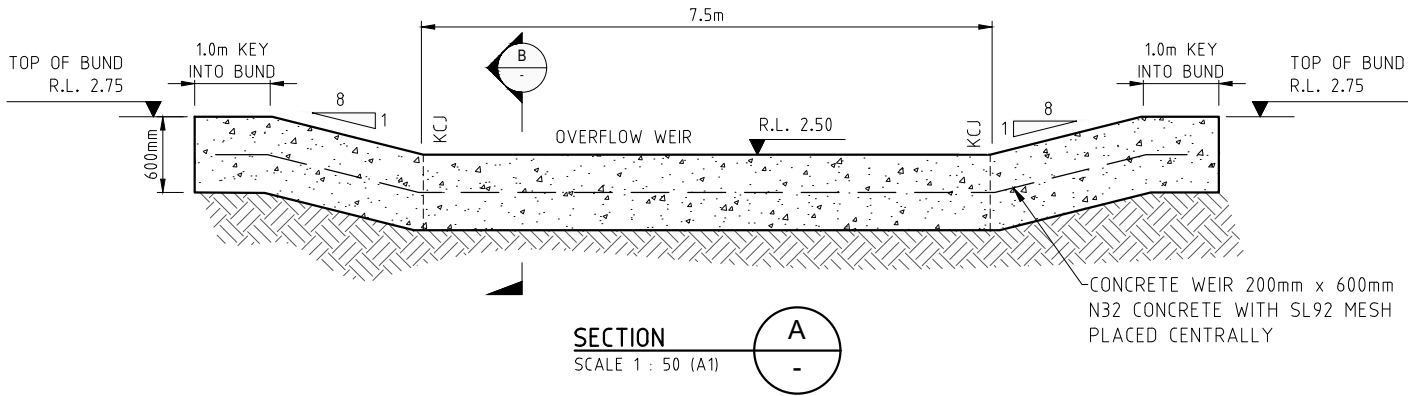
- CONSTRUCTION OF SPILLWAY TO PROCEED FROM TOE ROCK UPWARDS.
- ROCKS TO BE HAND PLACED AND INTERLOCKED WITH A RANGE OF SIZES.
- ROCK VOIDS TO BE FILLED WITH SOIL AND PLANTED WITH SEDGES AND GRASSES.
- PLACE ROCKS TO FINISH FLUSH WITH FINISHED EARTH LEVELS.

EQUIVALENT SPHERICAL DIAMETER	% BY WEIGHT OF ROCK SMALLER SIZE
1.5 - 2.0 D50	100
D50	50
0.3 - 0.4 D50	10 - 20

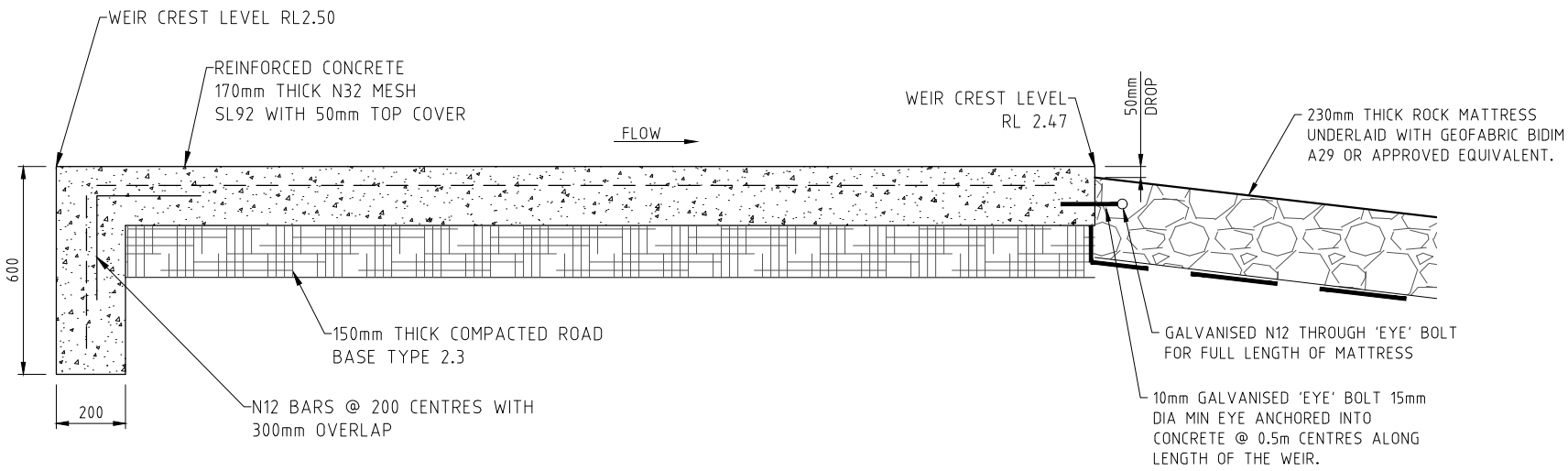


OVERFLOW WEIR SECTION (TYPICAL DETAIL)
SCALE 1 : 50 (A1)

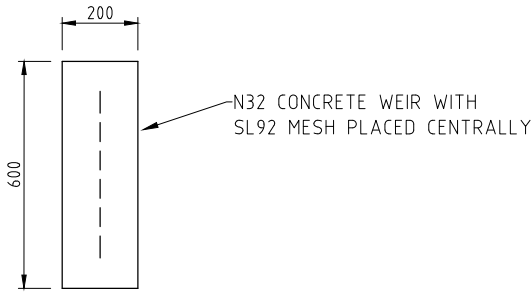
NOTE:
AN EXISTING WATER MAIN IS
LOCATED IN THE VICINITY OF THE
WEIR. CARE TO BE TAKEN TO AVOID
ANY DAMAGE DURING CONSTRUCTION.



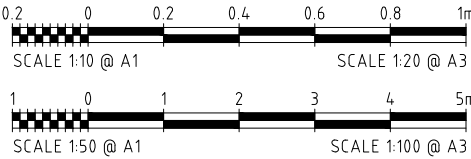
SECTION A-A
SCALE 1 : 50 (A1)



WEIR DETAIL
SCALE 1 : 10 (A1)



SECTION B - CONCRETE SILL DETAIL
SCALE 1 : 10 (A1)



REVISION	DESCRIPTION	INITIALS	DATE	INITIALS	DATE
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B	ISSUED FOR APPROVAL	ST	11.05.26	AC	11.05.26
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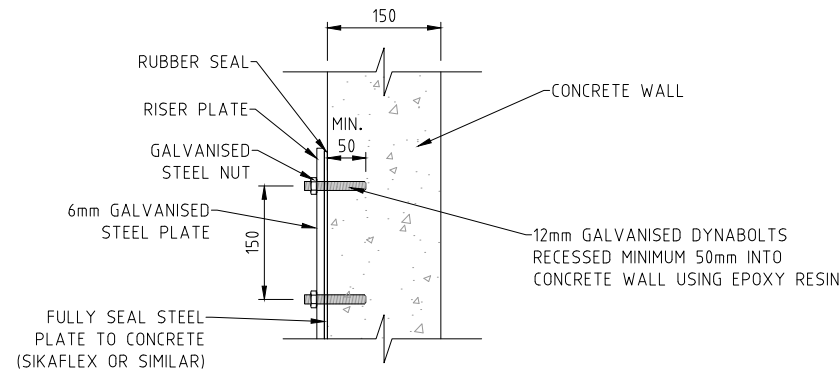
CLIENT	ECONOMIC DEVELOPMENT QUEENSLAND
DRAWN	ST
DATE	28.07.2026
DESIGNED	RW
DATE	28.07.2026
SCALE	AS SHOWN

PROJECT	OONONBA THE VILLAGE WETLANDS EASTERN WETLAND
DRAWING TITLE	OVERFLOW WEIR DETAILS
PROJECT No	4547
DRAWING No	4547-EW-201
REVISION	C

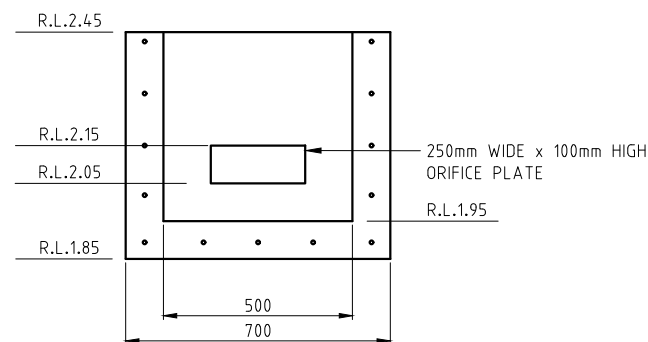
DATE PLOTTED: 28 JUL 2026 BY: STEPHEN TOLPITT

XREF: FILE: C:\08\DESIGN\FLOW\4547 - OONOONBA\ACAD\4547-EW-202 (PIT).DWG

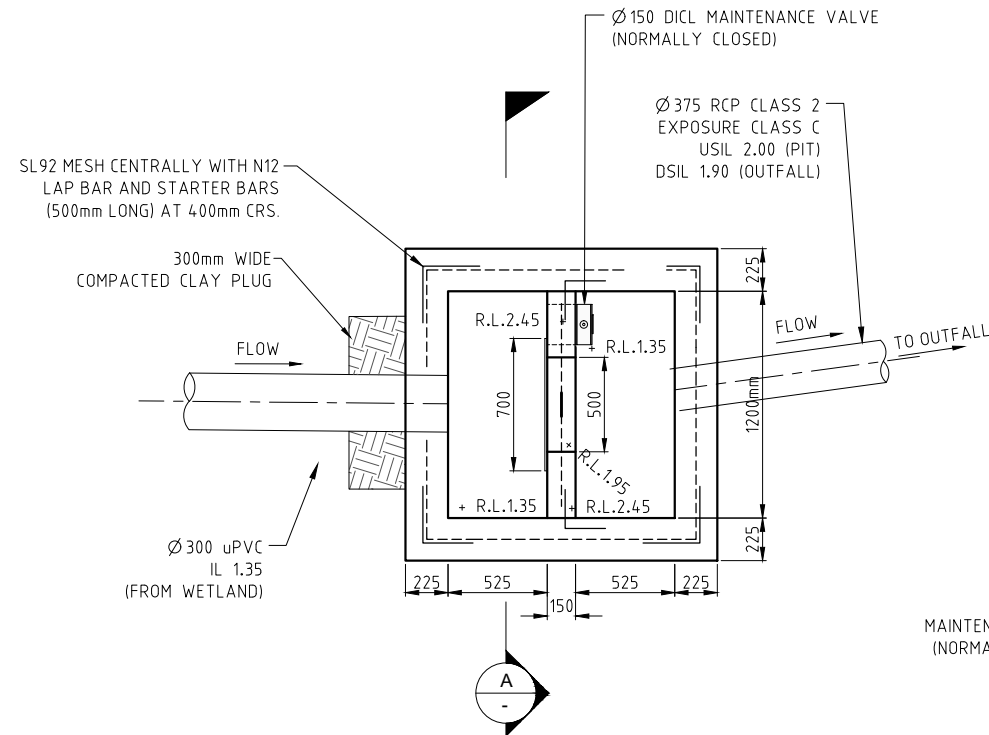
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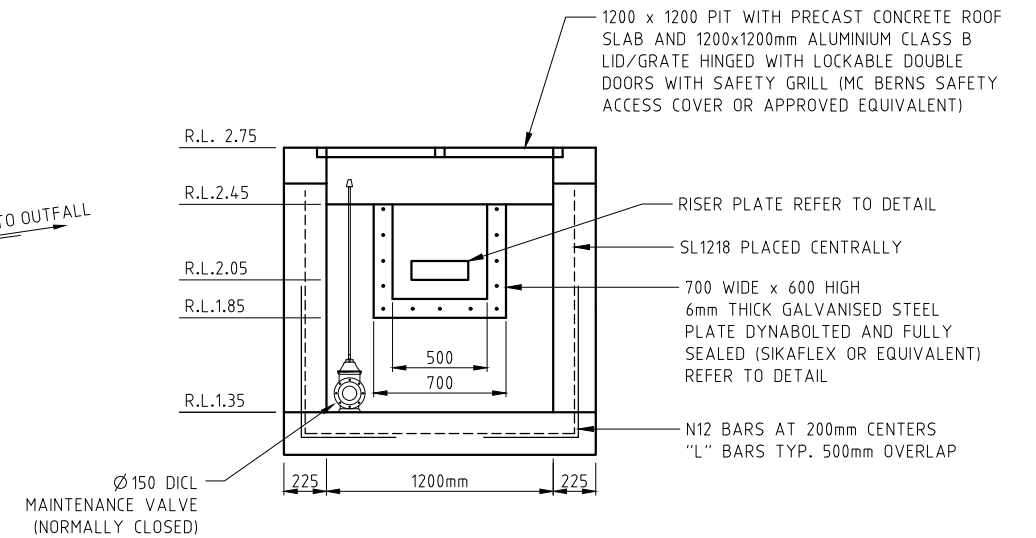
RISER PLATE - CONNECTION DETAIL
SCALE 1 : 5 (A1)



RISER PLATE DETAIL
SCALE 1 : 10 (A1)

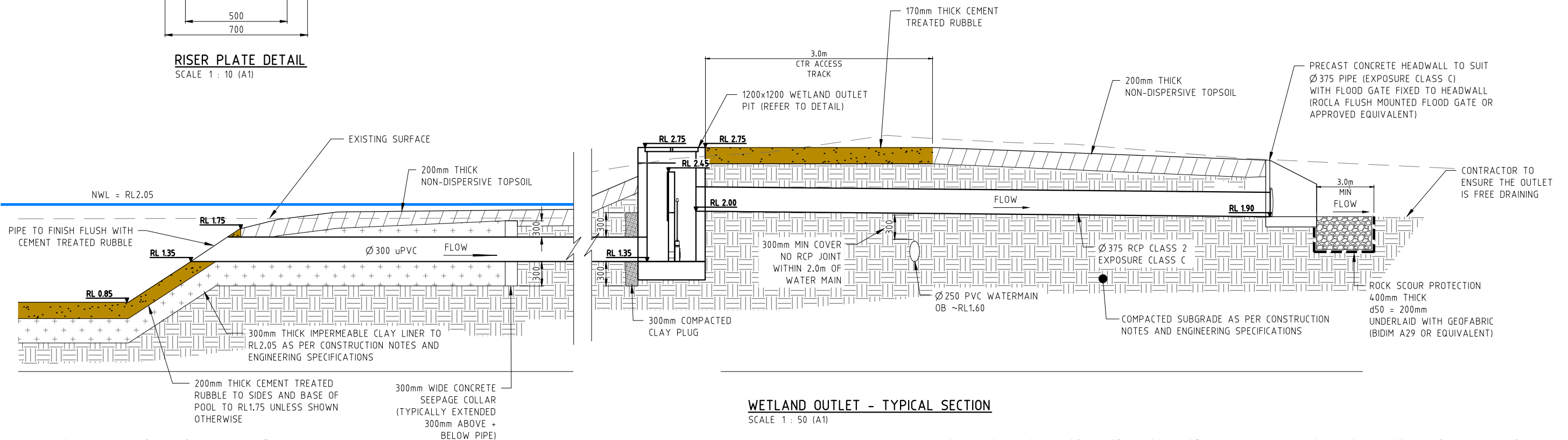


WETLAND OUTLET PIT PLAN
SCALE 1 : 20 (A1)

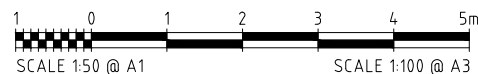


WETLAND OUTLET PIT

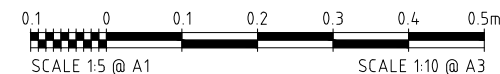
SECTION
SCALE 1 : 20 (A1)



WETLAND OUTLET - TYPICAL SECTION
SCALE 1 : 50 (A1)



SCALE 1:100 @ A3



SCALE 1:10 @ A3



SCALE 1:40 @ A3

REVISION	DESCRIPTION	INITIALS	DATE	INITIALS	DATE
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DATE	28.07.2026
DESIGNED	RW
DATE	28.07.2026
SCALE	AS SHOWN

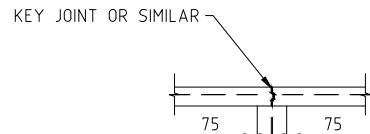
PROJECT	OONOONBA THE VILLAGE WETLANDS EASTERN WETLAND
DRAWING TITLE	WETLAND OUTLET DETAIL
PROJECT No	4547
DRAWING No	4547-EW-202
REVISION	C

DATE PLOTTED: 28 JUL 2026 BY: STEPHEN TOLPITT

XREF: FILE: C:\08\DESIGN\FLOW\4547 - OONONBA\ACAD\4547-EW-301 (DETAILS).DWG

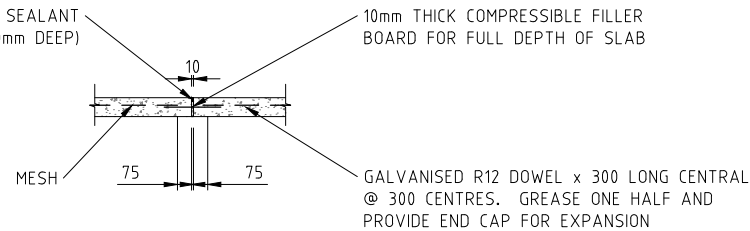
HEAVY VEHICLE CONCRETE ACCESS TYPICAL DETAIL

SCALE 1 : 20 (A1)



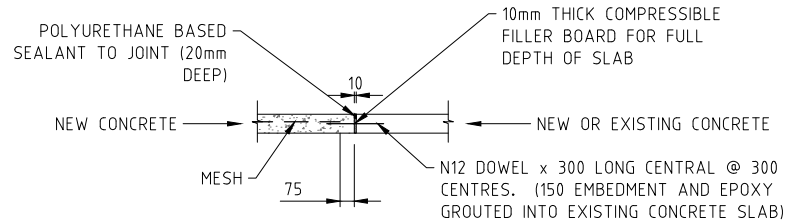
KEY JOINT (KJ) (MAXIMUM 6m SPACING)

SCALE 1 : 20 (A1)



EXPANSION JOINT (EJ) (MAXIMUM 12m SPACING)

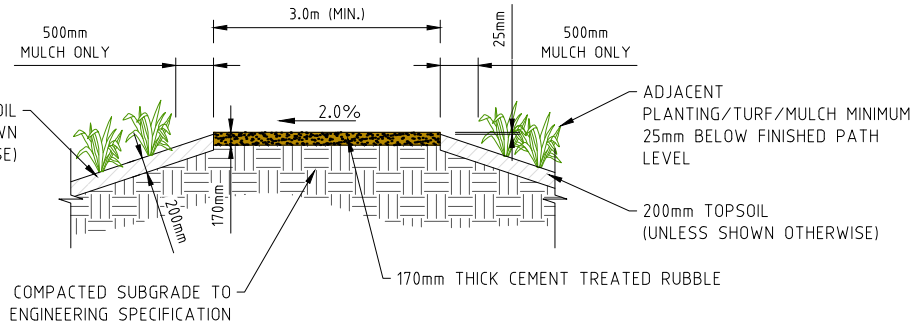
SCALE 1 : 20 (A1)



KEY CONSTRUCTION JOINT (KCJ)

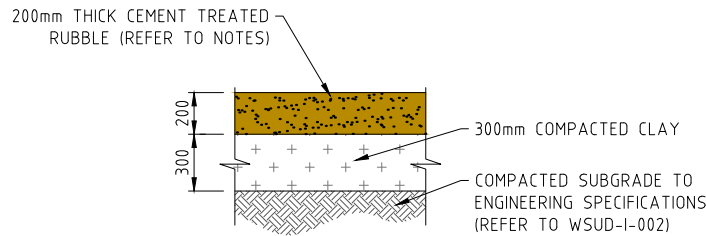
SCALE 1 : 20 (A1)

KEY CONSTRUCTION JOINTS TO BE PROVIDED BETWEEN ALL
ABUTTING NEW AND EXISTING CONCRETE WORKS



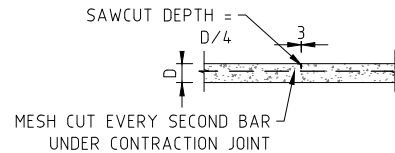
3m CEMENT TREATED RUBBLE PATH - TYPICAL DETAIL

SCALE 1 : 50 (A1)



CEMENT TREATED RUBBLE TO SEDIMENT BASIN

SCALE 1 : 20 (A1)



CONTRACTION JOINT (CJ) (MAXIMUM 3m SPACING)

SCALE 1 : 20 (A1)

JOINTS NOTES:

1. PROVIDE CONTRACTION JOINTS (CJ) AT A MAXIMUM SPACING APPROXIMATELY 1.5 TIMES THE WIDTH OF THE CONCRETE PATH. CUT EVERY SECOND BAR OF MESH UNDER JOINT. SAW CUT JOINT SHALL BE A WET CUT WITHIN 24 HOURS OF CONCRETE POUR.
2. PROVIDE KEY JOINT (KJ) AT MAXIMUM 6m SPACING.
3. PROVIDE EXPANSION JOINT (EJ) AT MAXIMUM 12m SPACING. JOINTS TO BE FILLED WITH APPROVED FILLER AND SEALANT.
4. KEY CONSTRUCTION JOINT TO BE PROVIDED ADJACENT TO ALL CONCRETE PROPERTY CROSSINGS AND ANY SIGNIFICANT CHANGE IN WIDTH AND DIRECTION.
5. LAYOUT OF JOINTS TO BE PROVIDED TO SUPERINTENDENT PRIOR TO CONSTRUCTION.

CEMENT TREATED RUBBLE (CTR) NOTES:

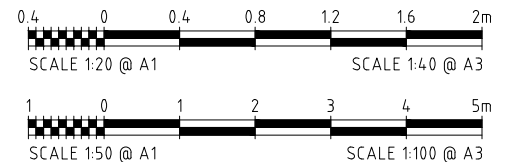
THE CTR SHALL COMPLY WITH THE FOLLOWING;

- THE CTR SHALL COMPRISE A COMBINATION OF WELL GRADED COARSE AND FINE AGGREGATES MIXED WITH CEMENT AND WATER TO FORM A HOMOGENEOUS MIX WHICH IS ABLE TO BE SPREAD AND COMPACTED TO FORM A UNIFORM STABLE BASE. THE MIXTURE OF FINE AND COARSE AGGREGATE FORMING THE ROCK BASE SHALL BE FREE FROM VEGETABLE MATTER, LUMPS OF CLAY, OVERBURDEN, OR ANY OTHER DELETERIOUS MATTER.
- COARSE AGGREGATES (RETAINED 4.75mm SIEVE) SHALL CONSIST OF CLEAN, HARD, DURABLE, ANGULAR ROCK FRAGMENTS OF UNIFORM QUALITY PRODUCED BY CRUSHING SOUND UNWEATHERED ROCK AND SHALL NOT INCLUDE MATERIALS WHICH BREAK UP WHEN ALTERNATELY WETTED AND DRIED.
- FINE AGGREGATE (PASSING 4.75mm SIEVE) SHALL CONSIST OF CLEAN, HARD, DURABLE, ANGULAR CRUSHED ROCK FRAGMENTS OF UNIFORM QUALITY OR A MIXTURE OF CRUSHED ROCK FRAGMENTS WITH NATURAL SAND OR CLAYEY SAND.
- A PARTICLE SIZE DISTRIBUTION (PSD) OF THE AGGREGATE TO BE USED IN THE CTR MUST BE PROVIDED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO DELIVERY TO SITE.
- THE PSD SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN TABLE 1. THE GRADING OF MATERIAL PASSING THE 26.5mm SIEVE SHALL VARY FROM COARSE TO FINE IN A UNIFORM AND CONSISTENT MANNER. THE MATERIAL SHALL NOT BE GAP GRADED AS REPRESENTED BY THE GRADING CROSSING FROM THE MAXIMUM LIMIT FOR ONE SIEVE SIZE TO THE MINIMUM LIMIT FOR ANOTHER SIEVE SIZE, AND SHALL CONFORM AS CLOSELY AS POSSIBLE TO THE SPECIFIED TARGET GRADING.

TABLE 1; PARTICLE SIZE DISTRIBUTION (CTR AGGREGATE)

AS1152 SIEVE SIZE (mm)	% PASSING BY MASS (OPTIMAL)	TARGET GRADING
26.5	100	100
19	100	95 - 100
13.2	82	70 - 90
9.5	70	60 - 80
4.75	50	40 - 60
2.36	38	30 - 45
1.18	25	20 - 35
0.6	19	13 - 27
0.425	17	11 - 23
0.3	13	8 - 20
0.15	10	5 - 14
0.075	8	5 - 11

- IF ALL OR PART OF THE FINE AGGREGATES (IGNEOUS AND METAMORPHIC ROCK SOURCES ONLY) IS TO BE IMPORTED FROM A DIFFERENT SOURCE OR MANUFACTURED FROM A DIFFERENT ROCK TYPE TO THAT OF THE COARSE AGGREGATES, THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE SUPERINTENDENT PRIOR TO USE.
- GRADED CRUSHED ROCK SHALL BE BATCH MIXED (PUGMILL OR SIMILAR) WITH ADDITION OF 4.0% (BY DRY MASS) OF CEMENT AND WATER. MIXING MUST ENSURE THAT THE WATER AND CEMENT ARE UNIFORMLY DISTRIBUTED TO PRODUCE A HOMOGENEOUS PRODUCT SUITABLE FOR PLACEMENT INTO FINAL POSITION.
- THE CTR SHALL BE PLACED IN A SINGLE 170mm THICK LAYER AND ROLLED WITH A SUITABLE SMOOTH DRUM ROLLER TO PROVIDE A WELL COMPACTED BASE WITH A UNIFORM SURFACE.



REVISION	DESCRIPTION	INITIALS	DATE	INITIALS	DATE
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