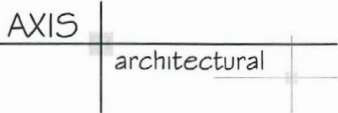
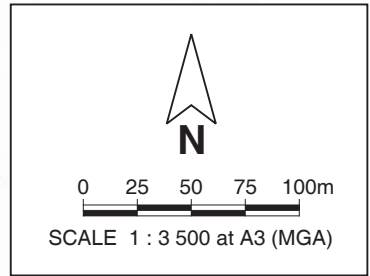
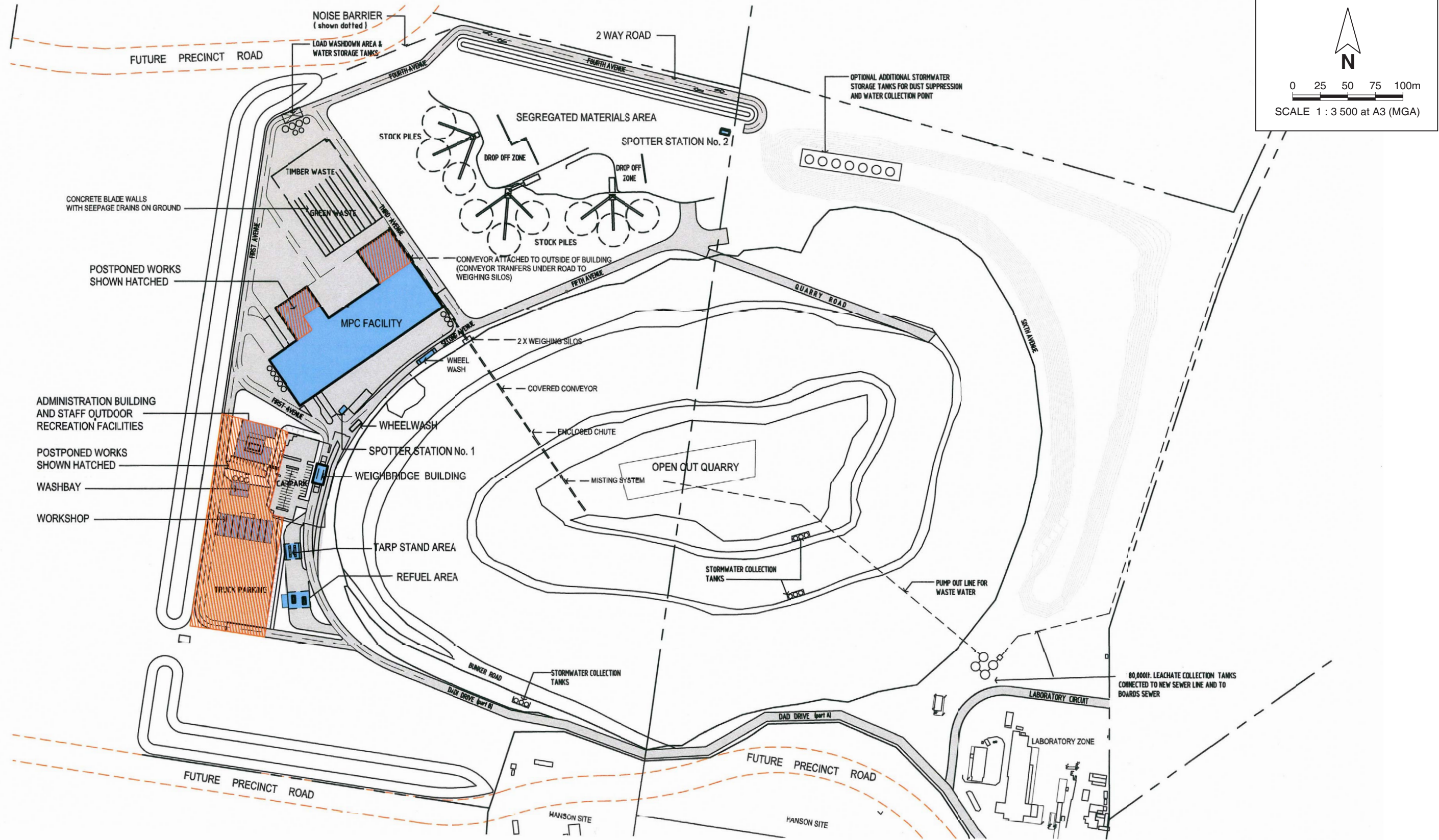


Appendix A

Drawings



 Douglas Partners Geotechnics • Environment • Groundwater		Brisbane, Cairns, Canberra, Darwin, Gold Coast, Melbourne, Minto		Newcastle, Perth, Sydney Sunshine Coast, Townsville, Wollongong, Wyong	
Title: SOIL, WATER AND LEACHATE MANAGEMENT PLAN - LIGHT HORSE BUSINESS CENTRE, EASTERN CREEK, NSW PROPOSED SITE LAYOUT					
Client: ALEXANDRIA LANDFILL PTY LTD			Office: PERTH		
Drawn By: J. RUSSELL	Scale: 1 : 3 500	Project No: 46950		DRAWING 1	Revision: A
Approved By: --		Date: 10-10-11			



Douglas Partners
Geotechnics • Environment • Groundwater

**Brisbane, Cairns, Canberra,
Darwin, Gold Coast,
Melbourne, Minto**

Newcastle, Perth, Sydney
Sunshine Coast, Townsville,
Wollongong, Wyong

Title: SOIL, WATER AND LEACHATE MANAGEMENT PLAN - LIGHT HORSE BUSINESS CENTRE, EASTERN CREEK, NSW

CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROL

Client: **ALEXANDRIA LANDFILL PTY LTD**

Drawn By: J. RUSSELL

Scale: N/A

Project No: 46950

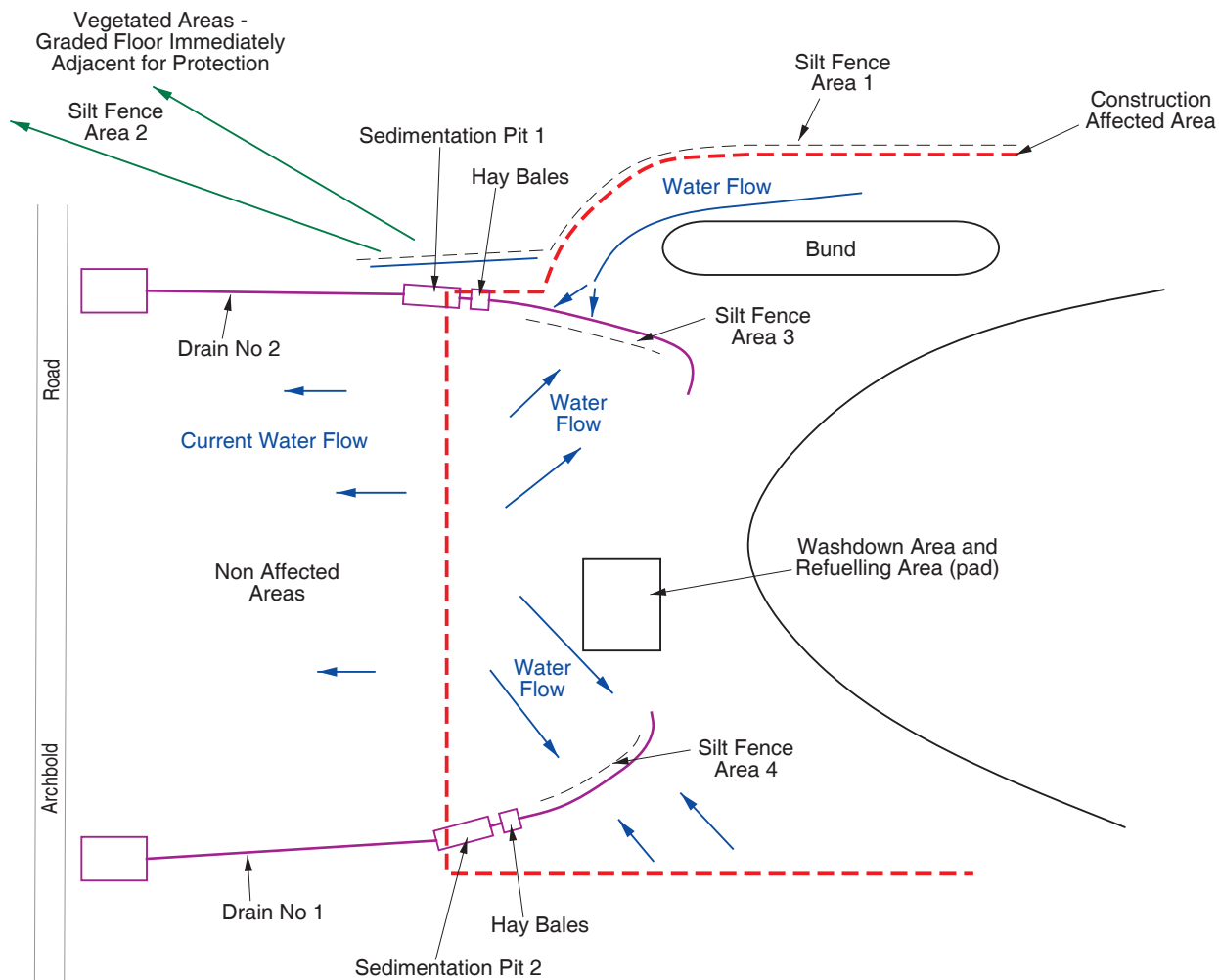
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Date: 21-12-09

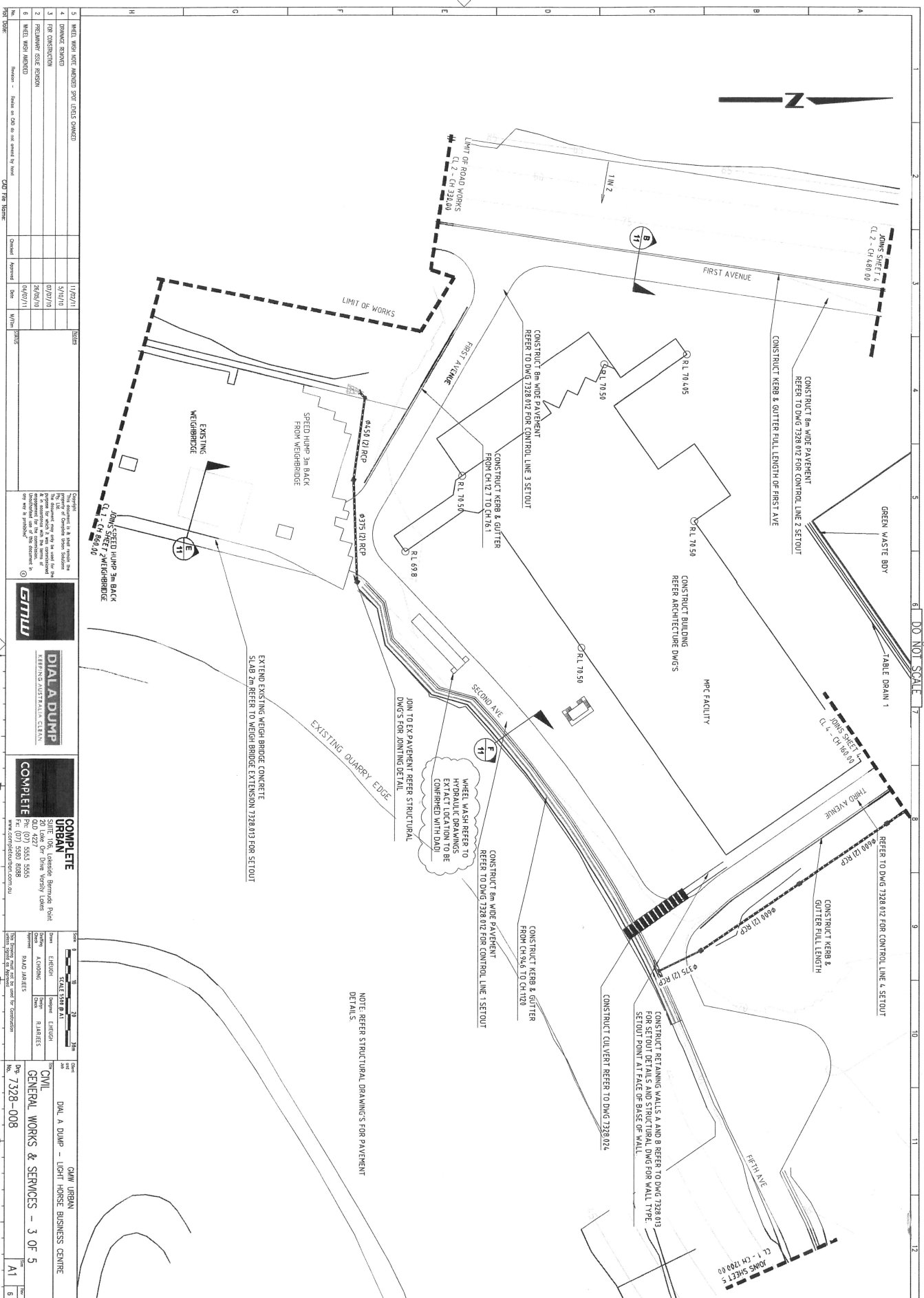
Office: **PERTH**

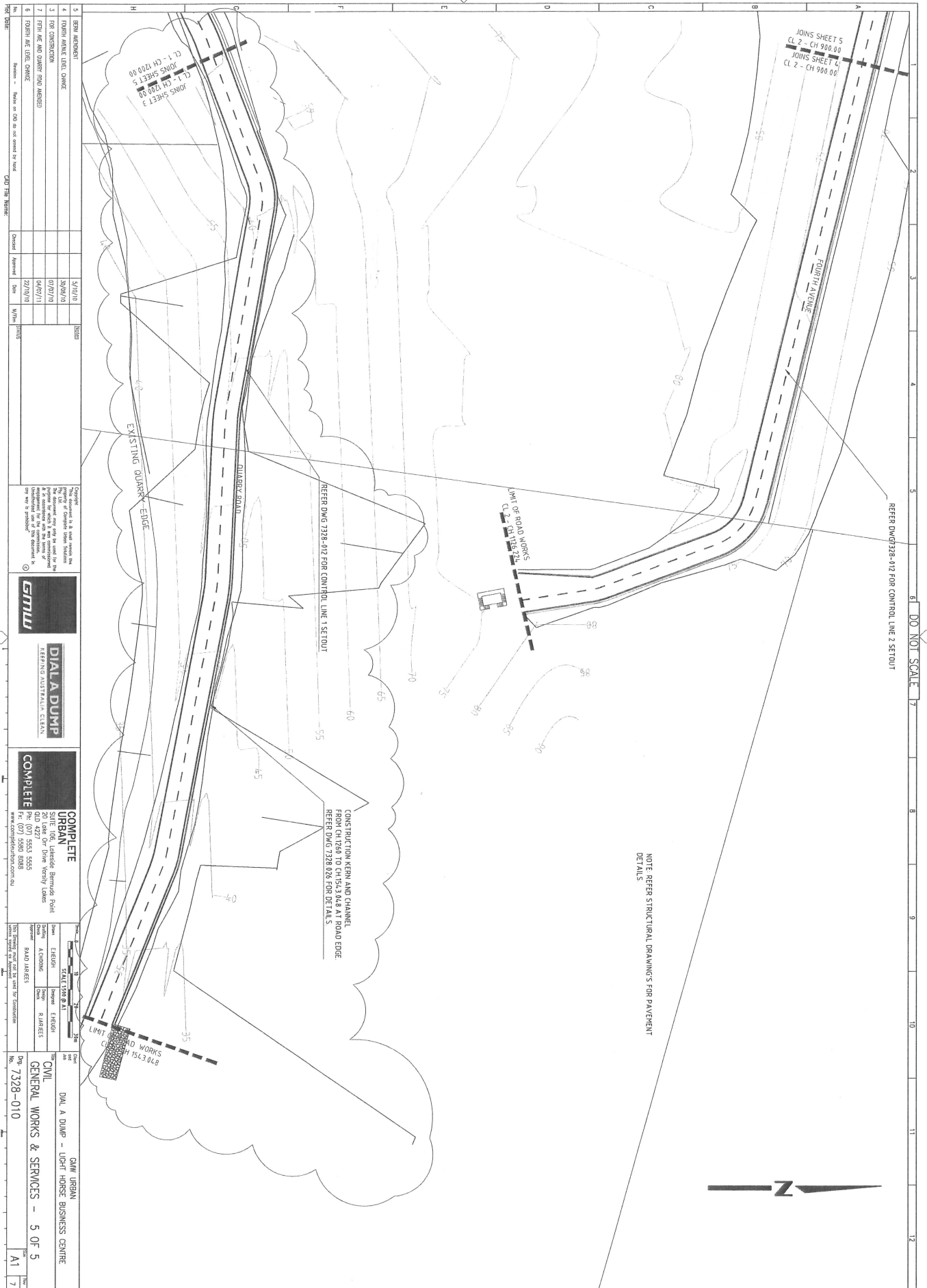
DRAWING 2

Revision:



DIAGRAMMATIC ONLY - NOT TO SCALE





NOTE REFER STRUCTURAL DRAWINGS FOR PAVEMENT DETAILS

1	DATE	5/10/18	ISSUED	This drawing is a final design. It is not to be used for construction until it has been approved by the relevant authority. It is the responsibility of the user to ensure that it is used in accordance with the relevant standards and specifications.	
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


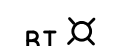





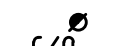



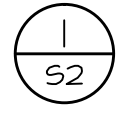

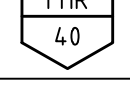





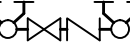















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LIGHT HORSE BUILDING CENTRE
EASTERN CREEK

Job No. 090669

HYDRAULIC ABBREVIATIONS			
TYPE	DESCRIPTION	TYPE	DESCRIPTION
AV	AIR ADMITTANCE VALVE	OF	OVERFLOW
B	BASIN	ORG	OVERFLOW RELIEF GULLY
CA	COMPRESSED AIR	P	PENETRATION
CO	CLEAR OUT	PLV	PRESSURE LIMITING VALVE
CS	CLEANERS SINK	PRV	PRESSURE REDUCING VALVE
CW	COLD WATER	RL	REDUCED LEVEL
DF	DRINKING FOUNTAIN	RPZD	REDUCED PRESSURE ZONE DEVICE
DST	DRAINAGE STACK	RV	RELIEF VENT
DW	DISHWASHER	SK	SINK
EWS	EMERGENCY EYE WASH/ SHOWER	SHR	SHOWER
FFL	FINISHED FLOOR LEVEL	SMH	SEWER MANHOLE
FH	FIRE HYDRANT	SRM	SEWER RISING MAIN
FHR	FIRE HOSE REEL	SS	SEWER STACK
FW	FLOOR WASTE	ST	STOP TAP
HL	HIGH LEVEL	SV	STOP VALVE (ISOLATION VALVE)
HT	HOSE TAP	TD	TUNDISH
HMU	HOT WATER UNIT	TMV	THERMOSTATIC MIXING VALVE
IL	INVERT LEVEL	TW	TRADE WASTE
IPMF	INDUCT PIPE MICA FLAP	U.N.O.	UNLESS NOTED OTHERWISE
KS	KITCHEN SINK	U	URINAL
LL	LOW LEVEL	VP	VENT PIPE
NG	NATURAL GAS	WC	TOILET SUITE (WATER CLOSET)
NTS	NOT TO SCALE		

HYDRAULIC SYMBOLS			
TYPE	DESCRIPTION	TYPE	DESCRIPTION
	DRAWING REFERENCE SHEET		GULLY PIT
	WATER METER WITH STOP VALVE		EXTERNAL HOSE TAP
	BL VALVE		HOT WATER UNIT I
	BOUNDARY TRAP		PIPECUT
	BASKET TRAP FLOOR WASTE		GRATED INLET PIT
	PIPE END CAP		COVERED PIT
	CLEAR OUT		PUMP
	CONTINUATION		RELIEF VALVE
	DETAIL REFERENCE		PIPE RISER
	FIRE HYDRANT DIRECTIONAL		REDUCED PRESSURE ZONE DEVICE
	TUNDISH		SEWER MAN HOLE
	PIPE DROPPER		SOLENOID VALVE
	FIRE BRIGADE BOOSTER VALVE I		THERMOSTATIC MIXING VALVE
	FIRE HYDRANT		URINAL CONTROL I
	FIRE HOSE REEL		STRAINER
	FILTER		STOP VALVE
	PIPE FLOW		INTERNAL HOSE TAP
	FLOOR WASTE		INTERNAL TAP WITH STOP VALVE
	CHECK VALVE		CONTROL PANEL
	9.0KG POWDER PORTABLE EXTINGUISHER (ABE) AND ASSOCIATED SIGNAGE		4.5KG POWDER PORTABLE EXTINGUISHER (ABE) AND ASSOCIATED SIGNAGE

GENERAL NOTES

- ALL WORKS TO BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND LOCAL GOVERNING AUTHORITY REQUIREMENTS.
- ALLOW TO COORDINATE ALL PIPE-WORK WITH ALL STRUCTURAL COMPONENTS AND OTHER BUILDING SERVICES. ALLOW ALL OFFSETS, BENDS AND DIVERSIONS AS MAY BE REQUIRED.
- ALLOW TO PAY ALL FEES AND CHARGES AS NECESSARY TO COMPLETE THE WORK.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE HYDRAULIC SPECIFICATION, ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES DOCUMENTATION.
- THE LOCATION AND SET OUT OF ALL FITTINGS, FIXTURES AND FLOOR-WASTES IS TO BE FULLY COORDINATED WITH THE ARCHITECTS DETAIL DOCUMENTATION.
- ALLOW TO EXTEND ALL VENTS VERTICALLY THROUGH ROOF AND DISCHARGE WITH A WEATHERPROOF FLASHING AND COWL.
- PROVIDE CONCEALED 'P-TRAP' DISCHARGE PIPES TO ALL BASINS AND SINKS. REFER TO DETAIL.
- PIPING SHALL BE A MINIMUM OF 20MM EXCEPT FOR THE LAST 2M TO A SINGLE FIXTURE WHICH MAY BE 15MM.

— CW — CW — CW —
COLD WATER PIPE

— HW — HW — HW —
HOT WATER PIPE

— S — S —
SEWER PIPING

— FS — FS —
MISTING SYSTEM PIPE WORK

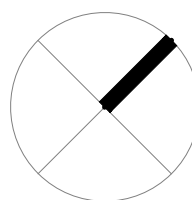
— FHR — FHR —
FIRE HOSE REEL PIPING

— FH — FH —
FIRE HYDRANT PIPING

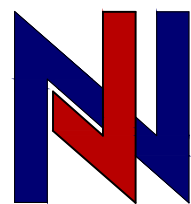
— RWR — RWR —
RAIN WATER REUSE

F	08.02.11	JC	CONSTRUCTION ISSUE				
E	26.11.10	JC	CONSTRUCTION ISSUE				
D	23.11.10	JC	CONSTRUCTION ISSUE	G	29.06.11	JC	CONSTRUCTION ISSUE
AMDT	DATE	BY	DESCRIPTION	AMDT	DATE	BY	DESCRIPTION

CIVIL • STRUCTURAL • BUILDING SERVICES



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SUTHERLAND - WOLLONGONG - GOLD COAST - GOULBURN - PICTON

DESIGN : JC
DRAWN : JC
DATE : 07.06.10
DRG SIZE : A1
SCALE : AS NOTED
PROJECT MGR : GC

HYDRAULIC DESIGN
LEGEND AND NOTES

LIGHT HORSE
BUSINESS CENTRE
OLD WALGROVE ROAD
EASTERN CREEK
DIAL A DUMP

090669
H01 G

CIVIL				STRUCTURAL				BUILDING			
NO	DATE	DESCRIPTION	BY	NO	DATE	DESCRIPTION	BY	NO	DATE	DESCRIPTION	BY
1	08/02/21	JC	CONSTRUCTION ISSUE								
2	07/02/21	JC	CONSTRUCTION ISSUE	H	29/02/21	JC	CONSTRUCTION ISSUE				
3	29/09/20	JC	CONSTRUCTION ISSUE								
4	01/01/21	JC	CONSTRUCTION ISSUE	J	02/03/21	JC	CONSTRUCTION ISSUE				
5	01/01/21	JC	CONSTRUCTION ISSUE	W	01/01/21	JC	CONSTRUCTION ISSUE				

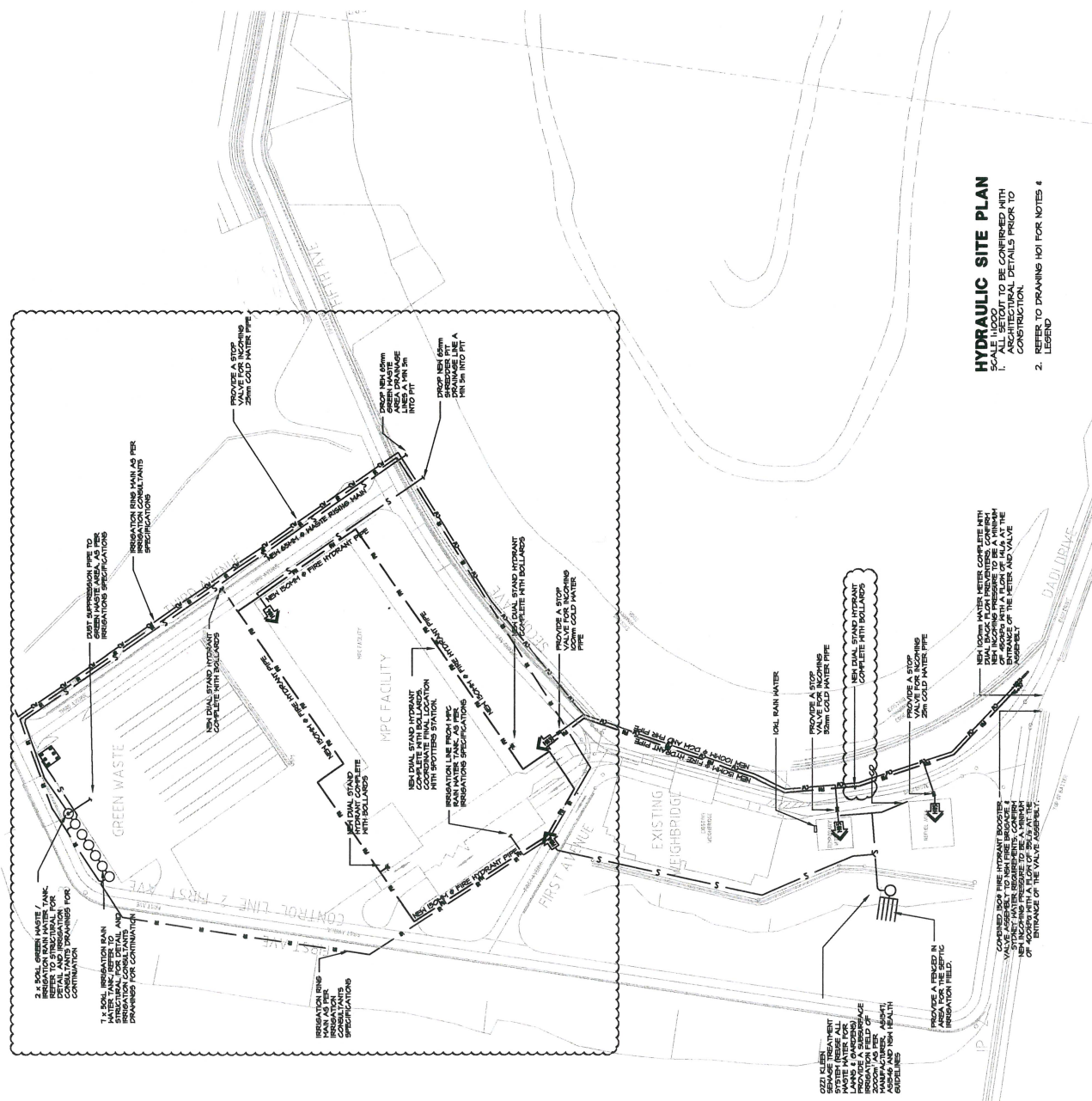
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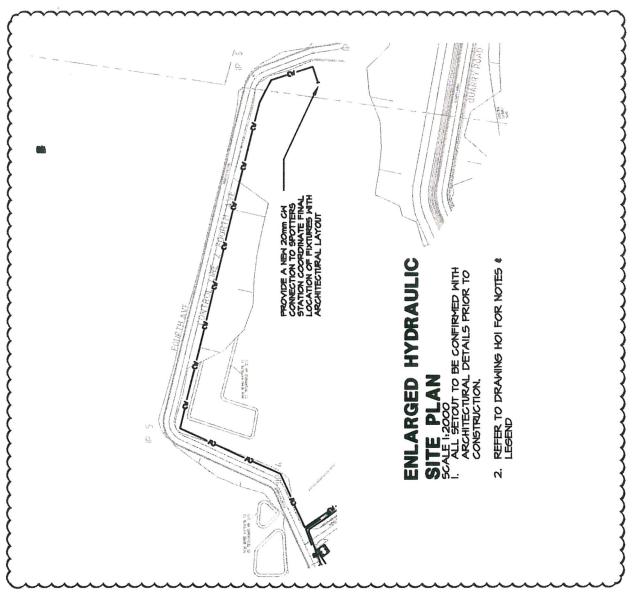
DESIGN: JC
DRAWN: JC
DATE: 04/06/20
DWG SIZE: A1
SCALE: AS NOTED
PROJECT NO: DC

HYDRAULIC SITE PLAN
LIGHT HORSE
BUSINESS CENTRE
OLD WALGROVE ROAD
EASTERN CREEK
DIAL A DUMP

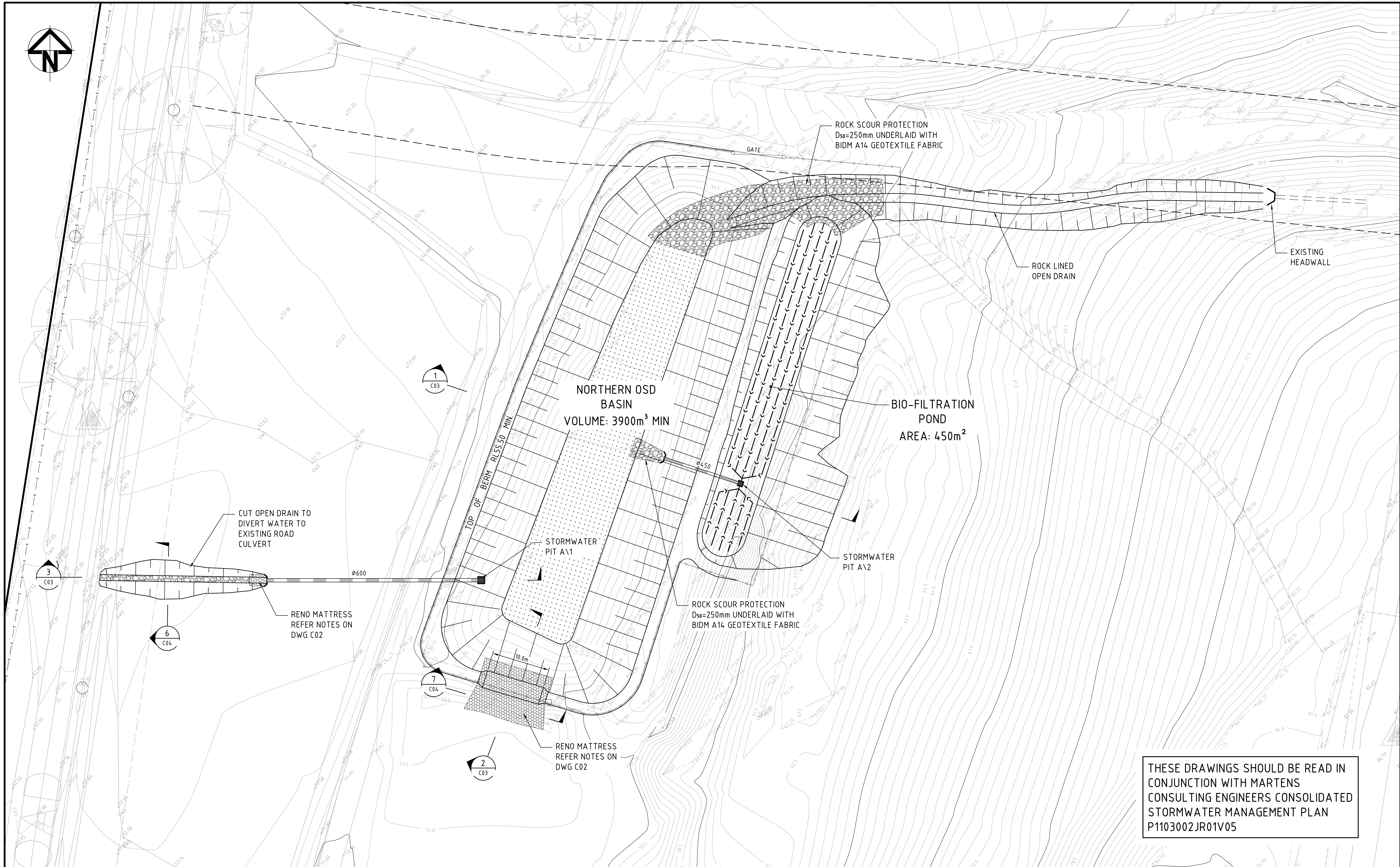
090669
H02 K



HYDRAULIC SITE PLAN
SCALE: 1:1000
1. ALL SETOUT TO BE CONFIRMED WITH ARCHITECTURAL DETAILS PRIOR TO CONSTRUCTION.
2. REFER TO DRAWING H01 FOR NOTES & LEGEND

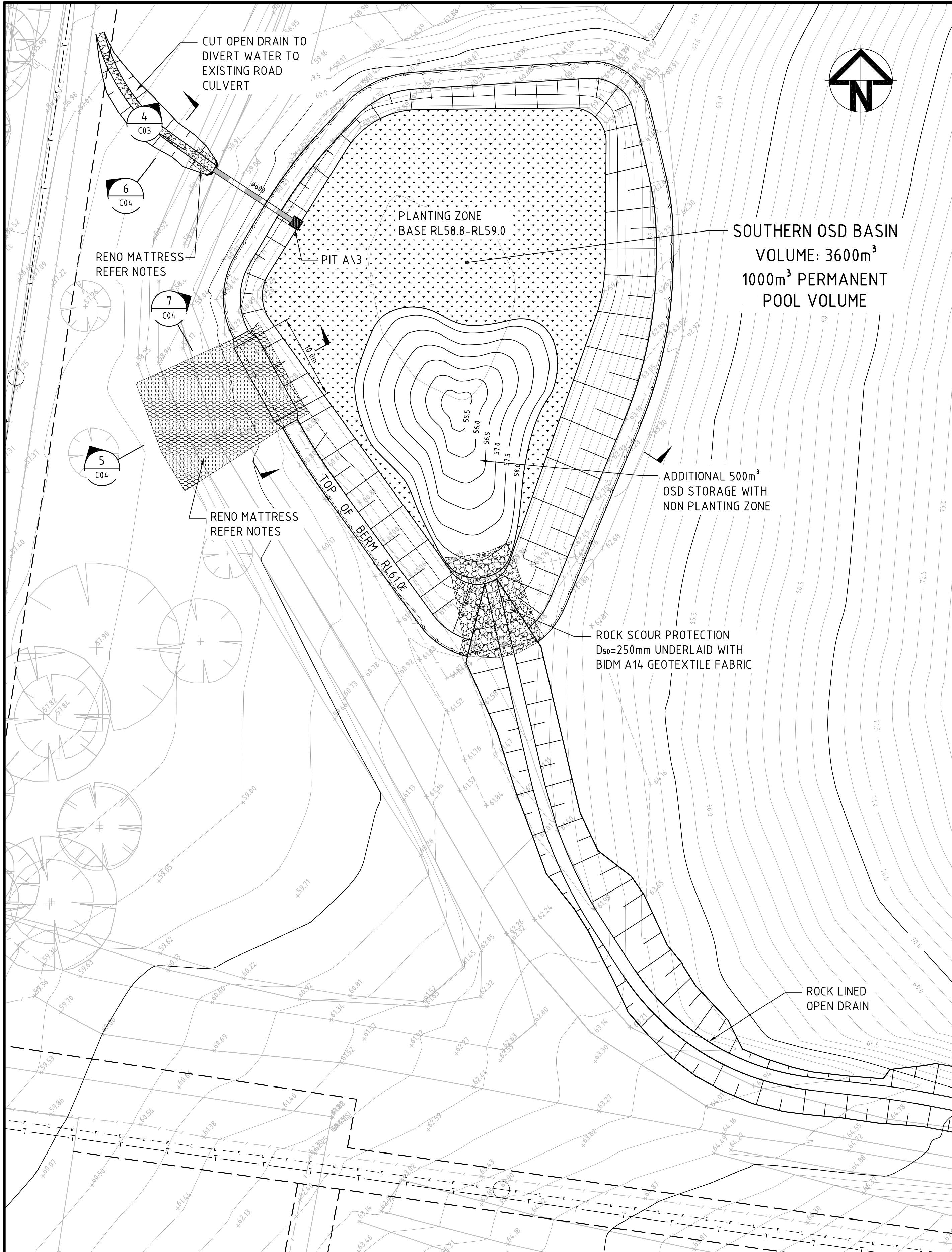


ENLARGED HYDRAULIC SITE PLAN
SCALE: 1:2000
1. ALL SETOUT TO BE CONFIRMED WITH ARCHITECTURAL DETAILS PRIOR TO CONSTRUCTION.
2. REFER TO DRAWING H01 FOR NOTES & LEGEND



THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH MARTENS CONSULTING ENGINEERS CONSOLIDATED STORMWATER MANAGEMENT PLAN P1103002JR01V05

				Client		Scales		Drawn		Project		Civil Engineers and Project Managers	
				DIAL A DUMP		1: 300		MM		LIGHT HORSE BUSINESS PARK EASTERN CREEK		Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au	
				Scale Bar		Grid MGA		Designed		Title		AT&L	
				0 5 10 15 20 25m		Height AHD		Checked		NORTHERN OSD BASIN LAYOUT PLAN		Status	
				1: 300		File		Approved				FOR APPROVAL	
												NOT TO BE USED FOR CONSTRUCTION	
												Drawing No.	
												Project No.	
												Issue	
												C01	
												10-16	
												B	



EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SLUSH, GROUTING AND DENTAL CONCRETE MAY BE REQUIRED, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
4. COMPACT CLAY STABILIZED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILIZED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL. STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

BULK EARTHWORKS NOTES

1. ORIGIN OF LEVELS: REFER SURVEY NOTES
2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AS 1289.5.7.1.
4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289.5.1.1)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%
5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN :-
(A) 1 TEST PER 200m² OF FILL PLACED PER 300mm LAYER OF FILL.
(B) 3 TESTS PER VISIT
(C) 1 TEST PER 1000m² OF EXPOSED SUBGRADE
TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (1996).
8. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
9. NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF AT & L AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

FENCING AND SECURITY

BOTH BASINS ARE TO BE FENCED WITH 1.8m HIGH MAN PROOF FENCE GALVANISED POSTS AT 3m cts. PROVIDE 4.8m WIDE GATE TO ALLOW ACCESS. GATES TO BE LOCKED AT ALL TIMES. EXACT LOCATION OF FENCE AND GATE TO BE DETERMINED ON SITE. PROVIDED HINGED ONEWAY FLOOD FLAP AT WEIR LOCATIONS.

EROSION AND SEDIMENT CONTROL NOTES:

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - a. LOCAL AUTHORITY REQUIREMENTS
 - b. EPA REQUIREMENTS
 - c. MANAGING URBAN STORMWATER - SOIL & CONSTRUCTION VOLUME 1, (2004) LANDCOM
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
 - (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
 - (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
 - (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 5 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
 - (B) ENSURING THAT NOTHING IS NAILED TO THEM
 - (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
 - (i) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 15 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
 - (ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - (iii) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

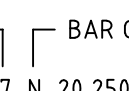
CONCRETE NOTES

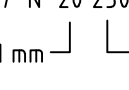
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS & PITTWATER COUNCIL SPECIFICATIONS.
2. CONCRETE QUALITY
ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

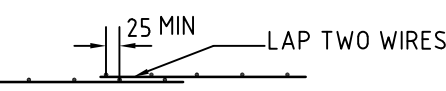
ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL SPECIFICATIONS.
- 3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- 4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- 6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.T.A. SPECIFICATION R83.
- 7. REINFORCEMENT SYMBOLS:

N	DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
R	DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
SL	DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

NUMBER OF BARS IN GROUP  BAR GRADE AND TYPE

NOMINAL BAR SIZE IN mm  SPACING IN mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.
- 8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

STORMWATER DRAINAGE NOTES

1. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BATH SILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
2. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
3. GRATES AND COVERS SHALL CONFORM TO AS 3996.
4. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
5. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED DURING THIS PROCESS. ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.


RENO MATTRESS NOTES

- 1) ALL CONSTRUCTION METHODS AND MATERIALS USED ARE IN ACCORDANCE WITH MACCAFERRI SPECIFICATION OR APPROVED EQUIVALENT.
 - 2) PRODUCT SPECIFICATIONS
GALMAC & PVC COATED OR APPROVED EQUIVALENT
 - 3) FILL MATERIALS
 - A. THE MATTRESS FILL MATERIAL MUST BE WEATHER RESISTANT, NON-FRIABLE, INSOLUBLE AND SUFFICIENTLY HARD BASALT, HAVE THESE PROPERTIES AND SPECIFIC GRAVITY WHICH QUALIFY THEM TO BE USED AS FILL MATERIAL AS PER AS2758.4.
 - B. CONSTRUCTION METHODS USED, IN ACCORDANCE WITH MACCAFERRI SPECIFICATIONS OR APPROVED EQUIVALENT.
 - C. ROCK SHALL BE WELL GRADED BETWEEN 100mm AND 200mm WITH NO GREATER THAN 6% SMALLER MATERIAL MECHANICALLY INTERLOCKING ROCKS ARE PREFERRED. THE ROCKS SHALL HAVE A DEGREE OF ANGULARITY AND RANGE OF SIZE.
 - D. WET/DRY VARIATION SHALL BE 100kN OR GREATER IN ACCORDANCE WITH AS 114122.
 - 4) CONSTRUCTION
COMPACT MATERIAL BELOW THE STRUCTURE TO 98% STD MOD. GEOMAC NON-WOVEN GEOTEXTILE (BIDM A14) TO BE PLACED AT ALL MESH SOIL ROCK INTERFACES OR APPROVED EQUIVALENT.
- MATTRESS FILL
ROCK FILL UNIT WEIGHT = 25kN/m³
GABION POROSITY = 30%

B	RE-ISSUED FOR APPROVAL	07-12-11
A	ISSUED FOR APPROVAL	01-12-11
Issue	Description	Date

100mm on Original

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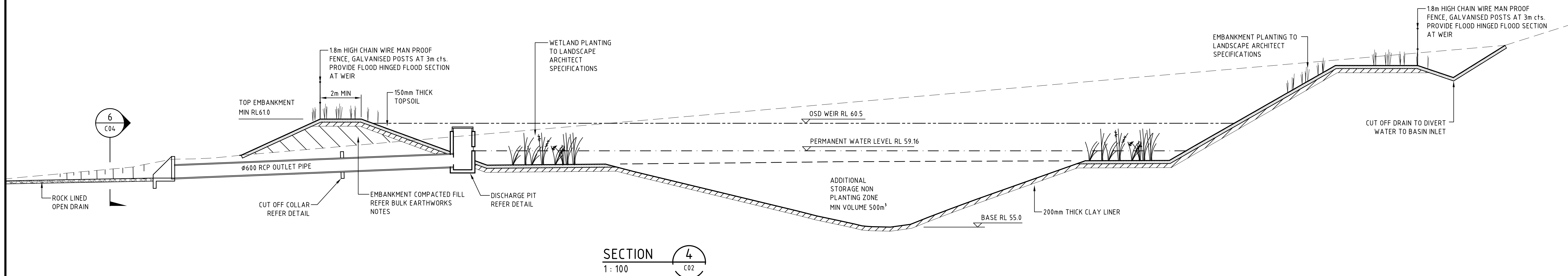
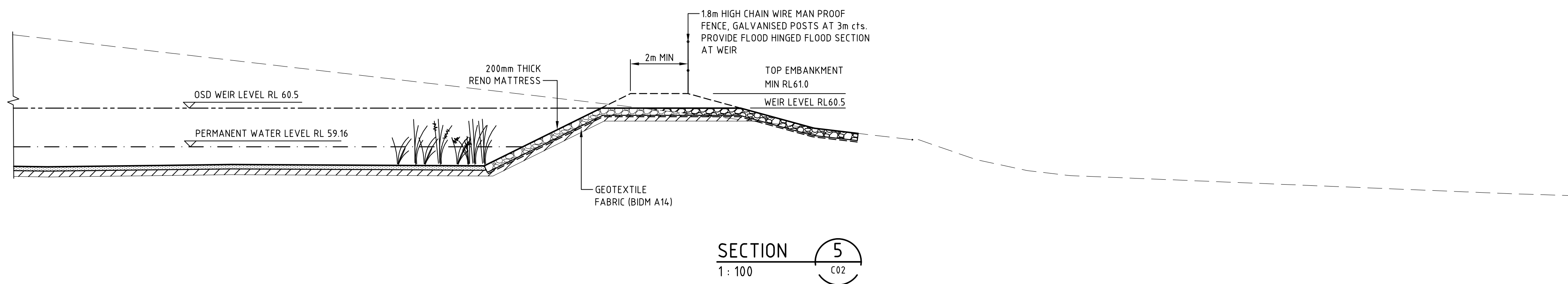
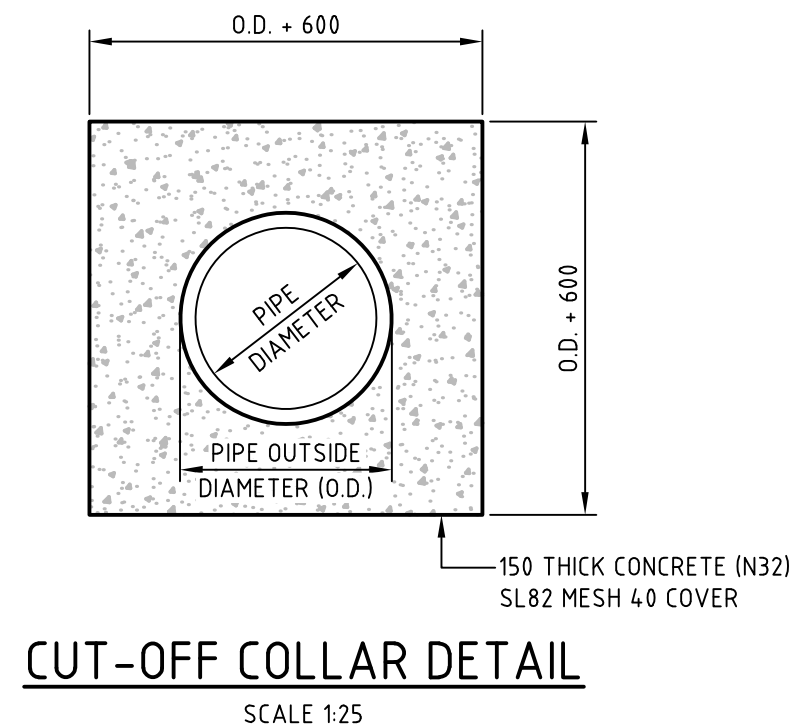
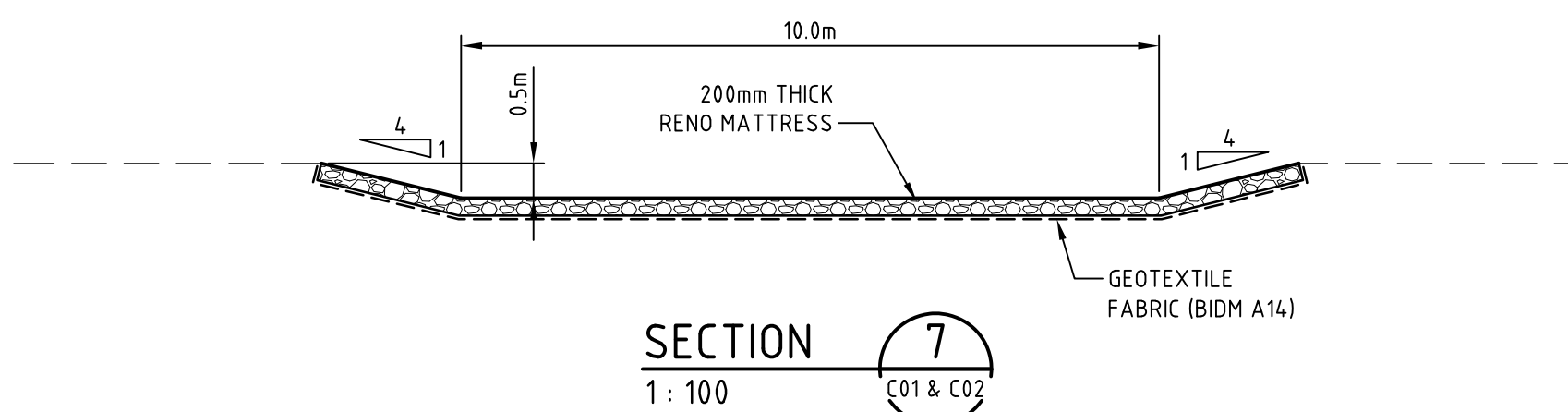
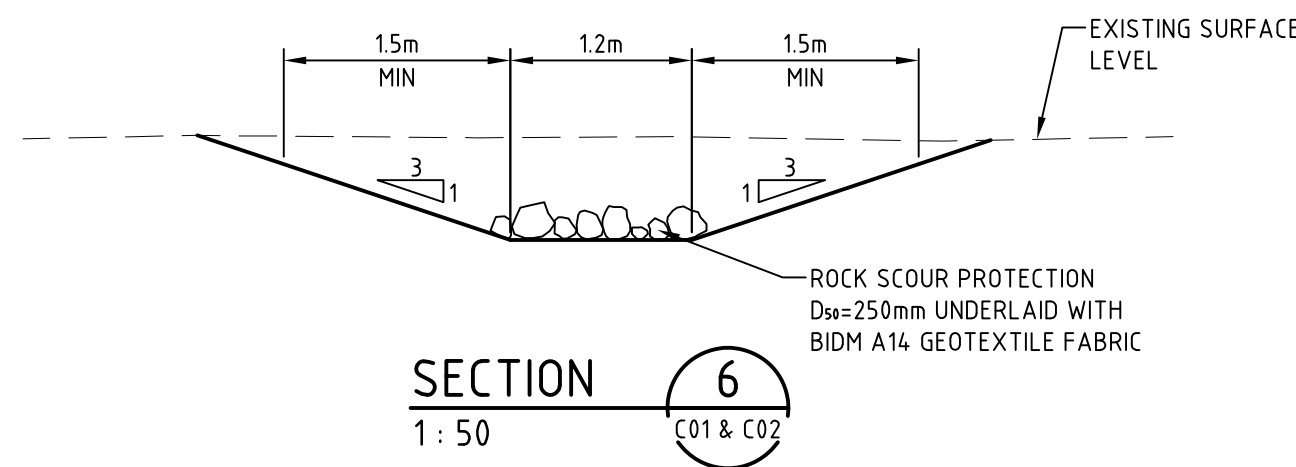
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File	

Drawn	MM
Designed	AMc
Checked	
Approved	

Project	LIGHT HORSE BUSINESS PARK EASTERN CREEK
Title	SOUTHERN OSD BASIN LAYOUT PLAN

Civil Engineers and Project Managers		
 Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	C02	Issue
Project No.	10-16	B



B	RE-ISSUED FOR APPROVAL	07-12-11
A	ISSUED FOR APPROVAL	01-12-11
Issue	Description	Date

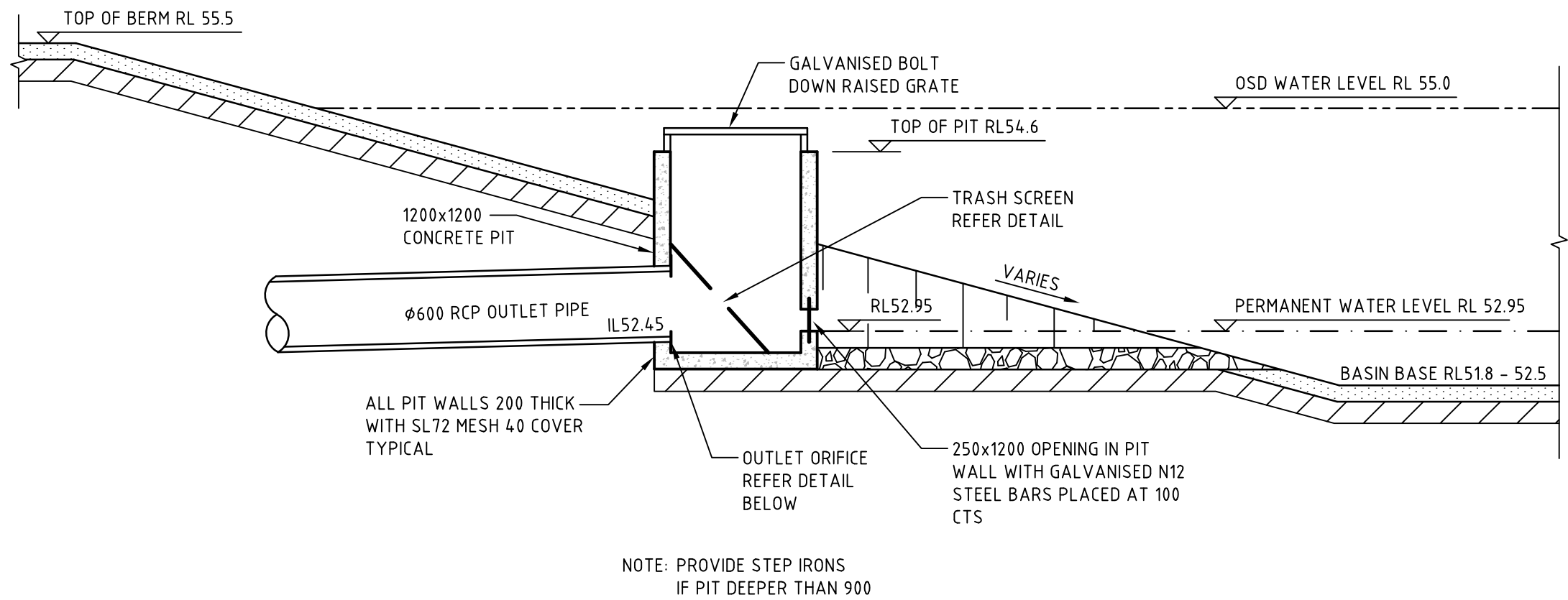
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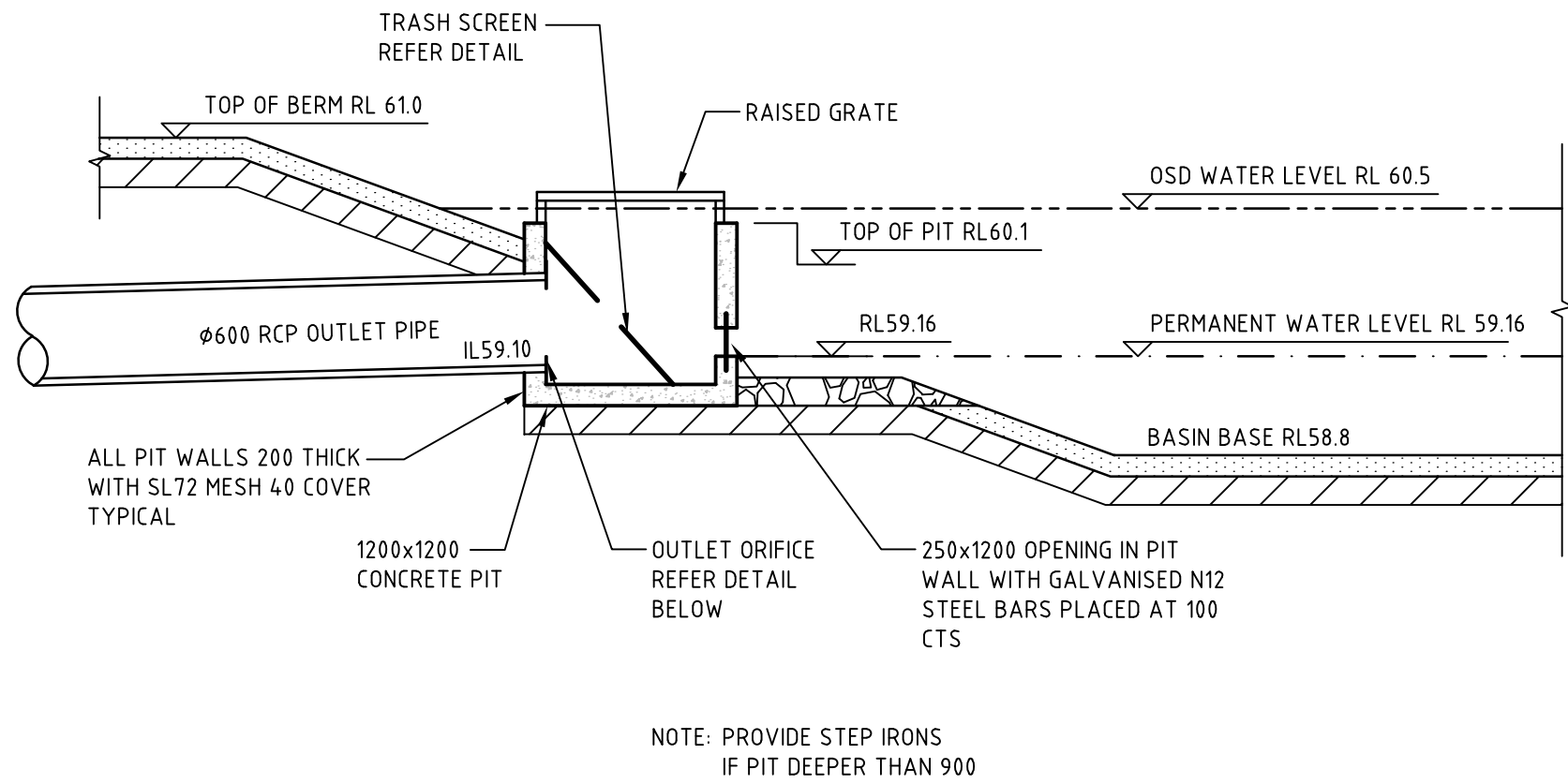
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Drawn	AM
Designed	AM
Checked	
Approved	
Project	LIGHT HORSE BUSINESS PARK EASTERN CREEK
Title	SOUHERN BASIN SITEWORKS SECTIONS

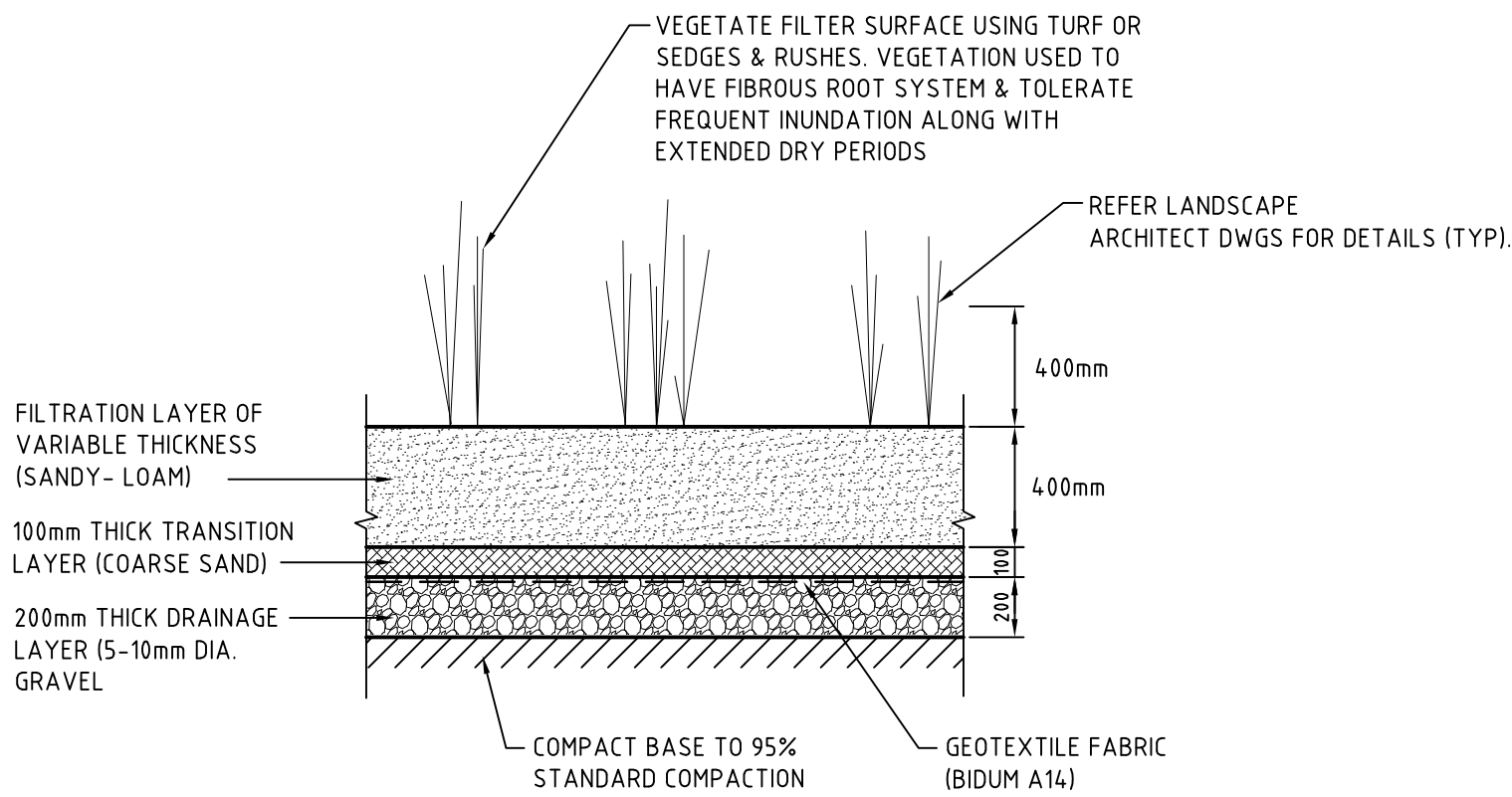
Civil Engineers and Project Managers	Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au
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Project No.	10-16
Issue	B



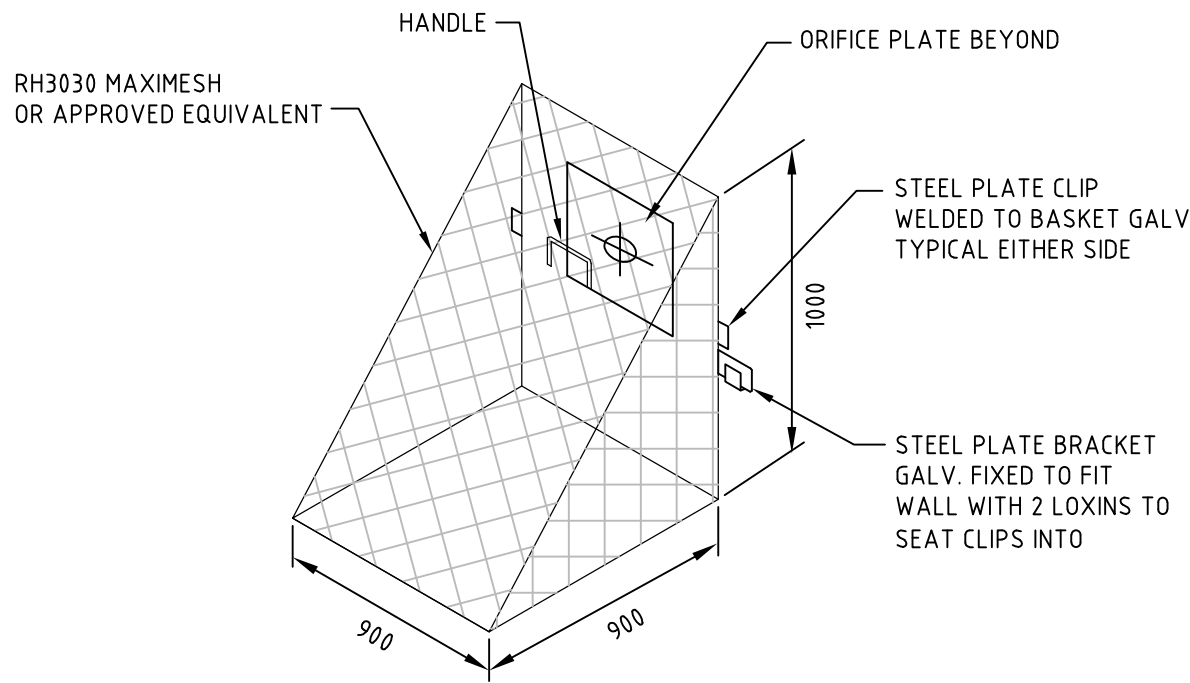
NORTHERN BASIN PIT A\1 DETAIL
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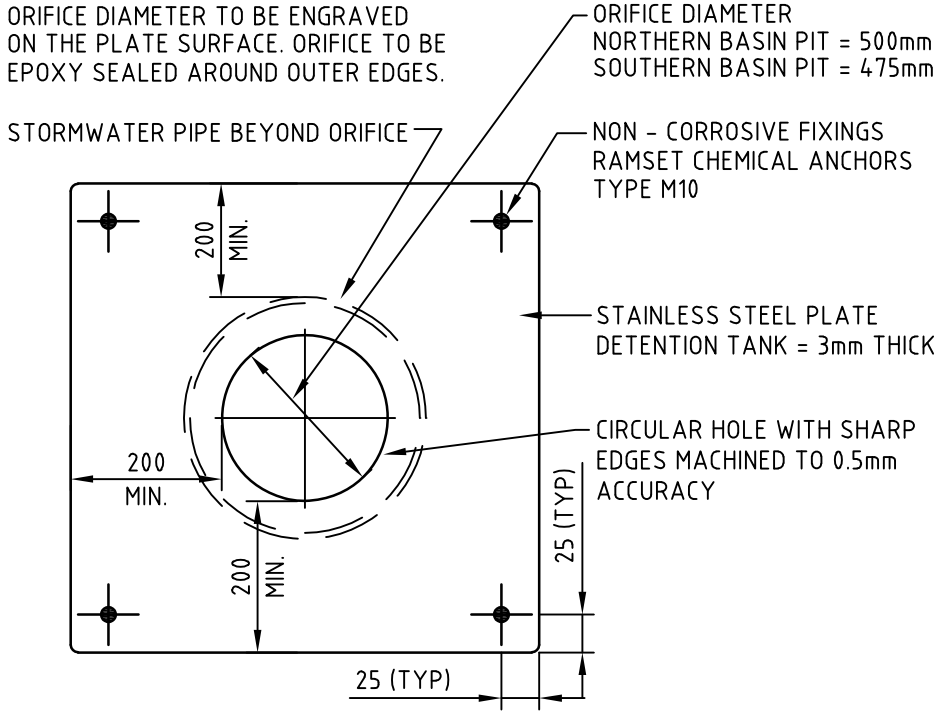
SOUTHERN BASIN PIT A\3 DETAIL
SCALE 1:50



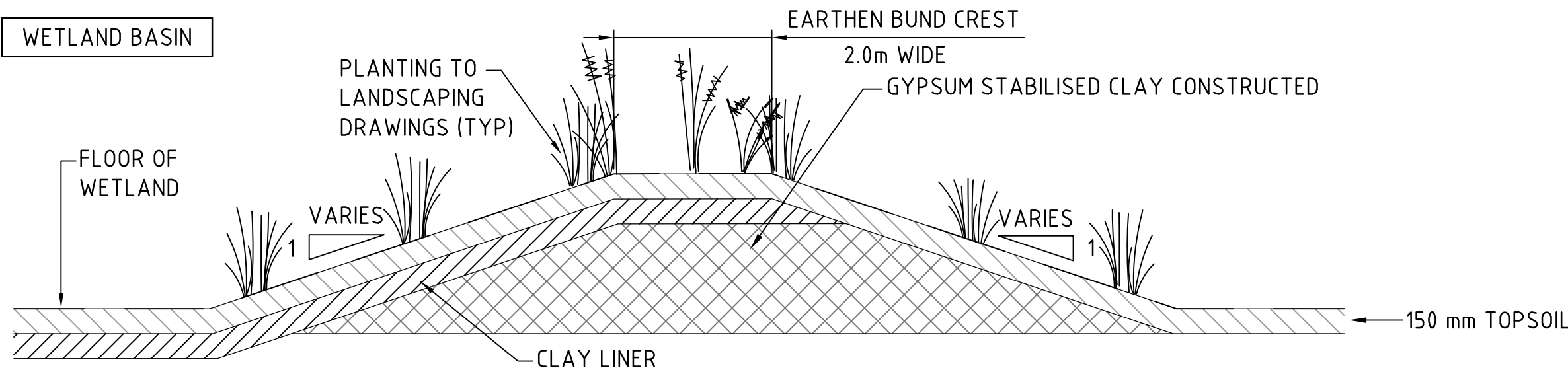
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DETAIL
SCALE 1:25



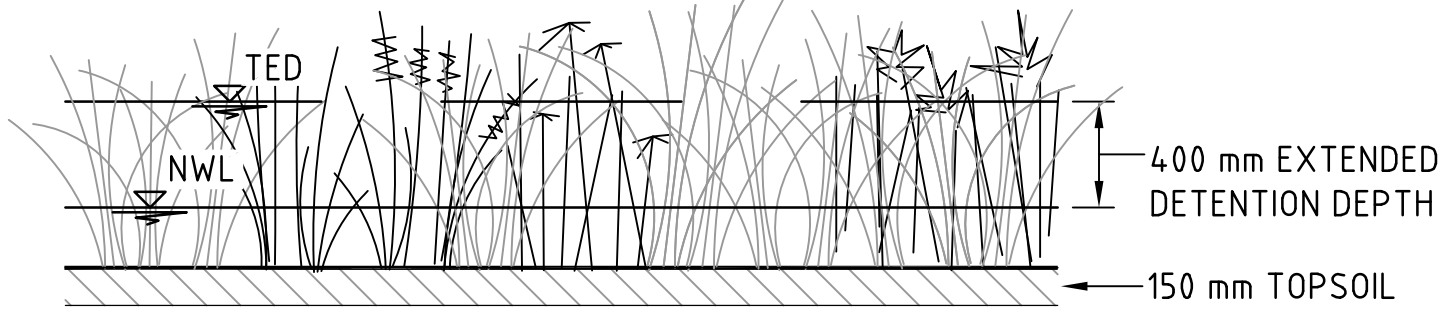
TRASH SCREEN DETAIL
SCALE 1:10



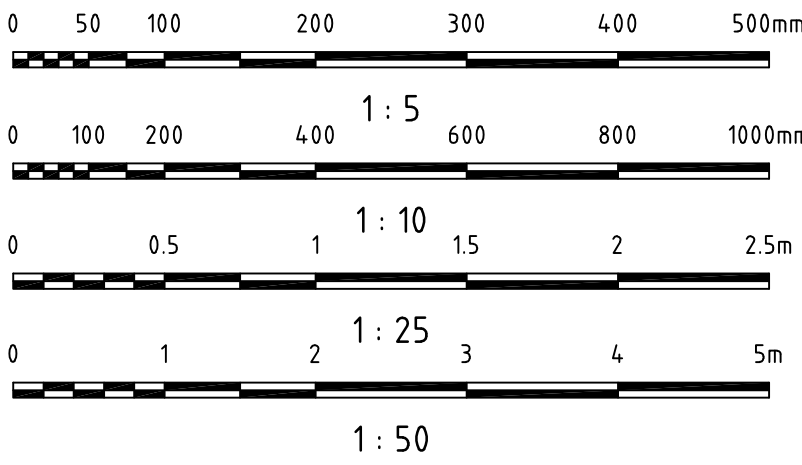
ORIFICE PLATE DETAIL
SCALE 1:5




WETLAND /OSD EMBANKMENT
NOT TO SCALE



WETLAND TYPICAL DETAIL
NOT TO SCALE



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			Scale Bar				AS SHOWN		Designed		AMc		LIGHT HORSE BUSINESS PARK EASTERN CREEK										
B			RE-ISSUED FOR APPROVAL				07-12-11		Grid		MGA		Checked				BASIN TYPICAL DETAILS		Title				
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Issue			Description		Date																		
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