

TRANSPORT DEPOT

7A-11 RACECOURSE RD,

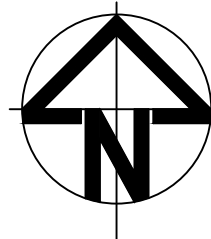
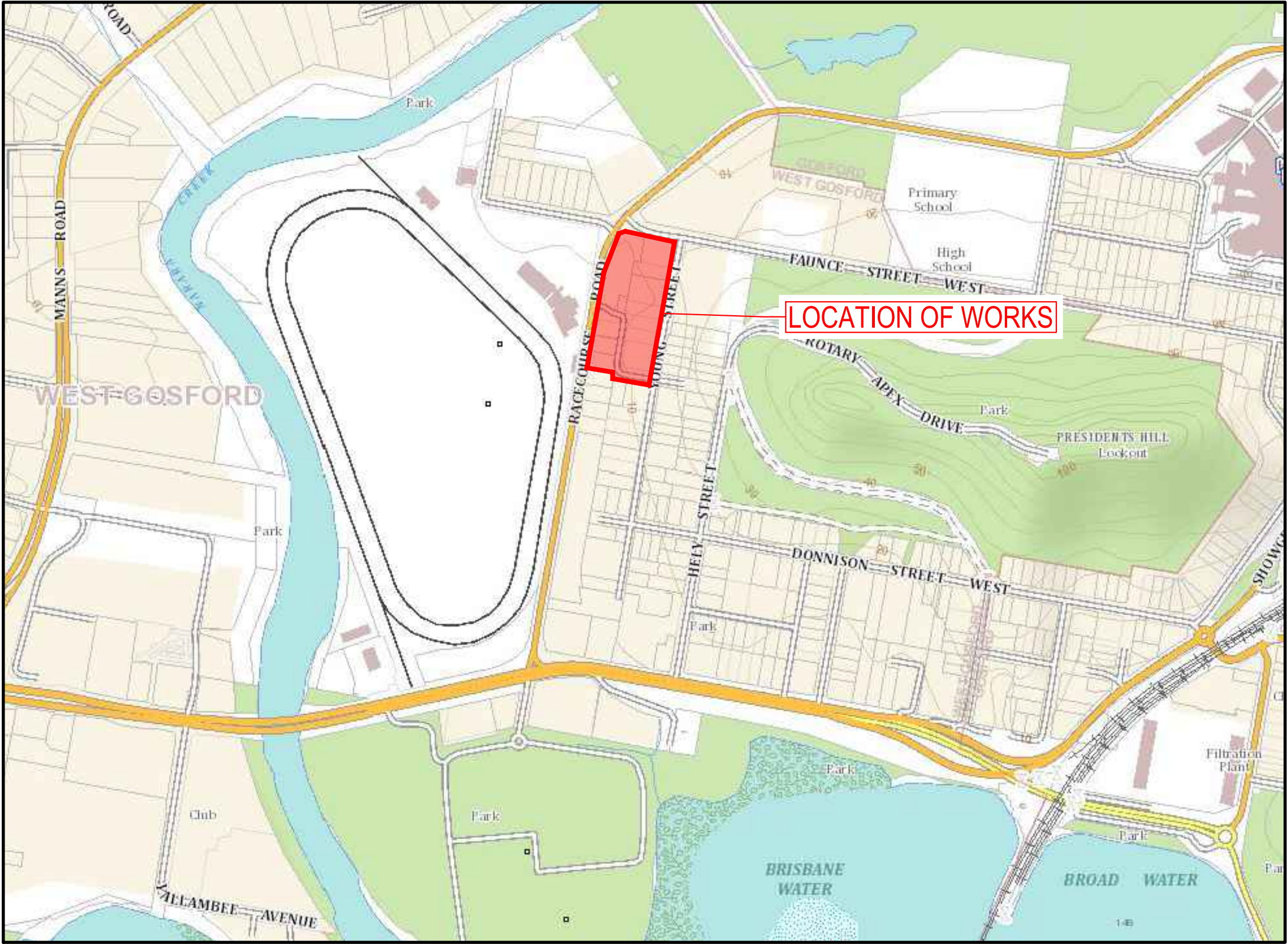
5-9 FAUNCE ST & YOUNG ST, WEST GOSFORD

CIVIL PACKAGE


DEVELOPMENT APPLICATION

WIP

DRAWING NO.	DRAWING TITLE
GENERAL	
22-1063-DAC000	COVER SHEET AND LOCALITY PLAN
22-1063-DAC001	GENERAL NOTES AND LEGENDS
22-1063-DAC003	GENERAL ARRANGEMENT PLAN
22-1063-DAC005	TYPICAL SECTIONS SHEET 1
22-1063-DAC006	TYPICAL SECTIONS SHEET 2
SITWORKS	
22-1063-DAC011	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
22-1063-DAC012	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
22-1063-DAC013	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
22-1063-DAC014	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
DETAILS	
22-1063-DAC021	SITWORKS DETAILS SHEET 1
22-1063-DAC022	SITWORKS DETAILS SHEET 2
22-1063-DAC023	SITWORKS DETAILS SHEET 3
22-1063-DAC025	STORMWATER DRAINAGE DETAILS SHEET 1
22-1063-DAC026	STORMWATER DRAINAGE DETAILS SHEET 2
22-1063-DAC027	STORMWATER DRAINAGE DETAILS SHEET 3
22-1063-DAC028	STORMWATER DRAINAGE DETAILS SHEET 4
PAVEMENT	
22-1063-DAC031	PAVEMENT PLAN
STORMWATER DRAINAGE	
22-1063-DAC051	STORMWATER DRAINAGE OSD CATCHMENT PLAN
22-1063-DAC052	STORMWATER DRAINAGE MUSIC CATCHMENT PLAN
22-1063-DAC053	STORMWATER DRAINAGE OSD ROOF PLAN
22-1063-DAC054	STORMWATER DRAINAGE OSD BASE PLAN
22-1063-DAC055	STORMWATER DRAINAGE OSD SECTIONS AND DETAILS
EROSION AND SEDIMENT CONTROL	
22-1063-DAC071	EROSION AND SEDIMENT CONTROL PLAN
22-1063-DAC075	EROSION AND SEDIMENT CONTROL DETAILS



LOCALITY PLAN
NOT TO SCALE

		Bar Scales	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Client WALUYA PTY LTD	Scales NTS	Drawn	CK	Project TRANSPORT DEPOT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD	<div>Civil Engineers and Project Managers</div> <div></div> <div>Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405</div>		
						Designed	CK				
						Grid	MGA56			Checked	GJ
						Height Datum	AHD			Approved	AT
A	ISSUE FOR INFORMATION	15-12-22									
Issue	Description	Date	<div>Status FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION</div> <div>Project - Drawing No. 22-1063-DAC000</div>								
							<div>A1</div> <div>Issue A</div>				

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.

2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED 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% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm wide EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S. SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.M.S. FORM 3052 (BOUND), COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051.1 AND COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.

ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.

ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASE COURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).

EXPANSION JOINTS (E.J.) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

BROOMED FINISH ON ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

IN THE REPLACEMENT OF KERB AND GUTTER :-
EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF UTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.

EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.

EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

1. ORIGIN OF LEVELS: REFER SURVEY NOTES
2. STRIP ALL TOPSOIL/SUBGRADE MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCKPILE 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.
4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 E 5.1.1)
<hr/>	
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 TON (MN) 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 FILL PLACED PER 300 LAYER OF FILL.
 - (B) 3 TESTS PER VISIT
 - (C) 1 TEST PER 1000m² OF EXPOSED SUBGRADETESTING SHALL BE "LEVEL 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.

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

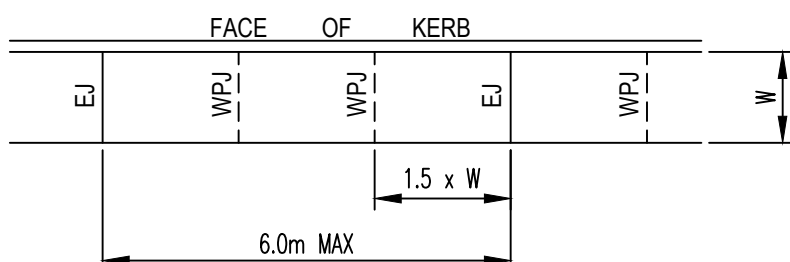
CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY TREHY INGOLD NEATE, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

PEDESTRIAN PAVEMENT JOINTS

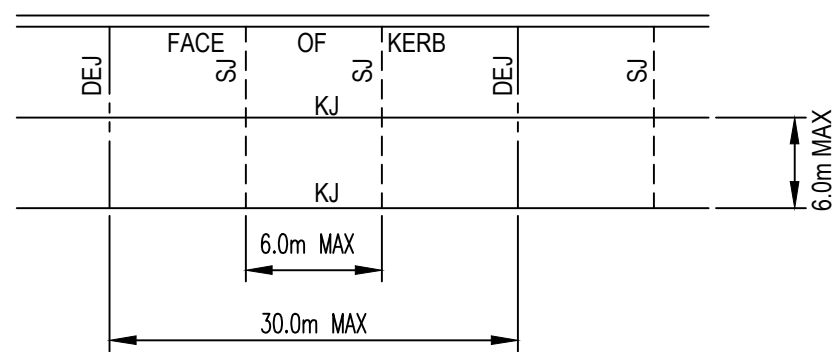
1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. PEDESTRIAN PAVEMENT JOINT DETAIL.



NB: CHECK RELEVANT COUNCIL REQUIREMENTS IF IN PUBLIC ROAD.

VEHICULAR PAVEMENT JOINTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
7. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
8. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 30.0m CENTRES
9. VEHICULAR PAVEMENT JOINT DETAIL.



1. STORMWATER DESIGN CRITERIA:
 - (A) AVERAGE REQUIREMENT INTERNAL:
 - 1-100 YEARS: ROOFED AREAS TO SURCHARGE PIT
 - 2-100 YEARS: EXTERNAL PAVEMENTS
 - (B) RAINFALL INTENSITIES:
 - TIME OF CONCENTRATION: 5 MINUTES
 - 1-100 YEARS= 312 mm/hr
 - 120 YEARS= 218 mm/hr
 - (C) RUNOFF COEFFICIENTS:
 - ROOF AREAS: $C = 100$
 - EXTERNAL PAVEMENTS: $C_{20} = 10$
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '4' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH PVC OR FRP PIPES MAY BE USED.
5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIES ARE uPVC PRESSURE PIPE. GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR CRUSHED 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)
7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/ISNZ 3500 3.2 (1998).
8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNLOTTED uPVC SEWER GRADE PIPE IS TO BE USED
11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
15. 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.

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

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

1. PROJECT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
2. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITINGS BY AT & L.
3. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
4. 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.
5. 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.
6. 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
- 17 N 20 250
- NOMINAL BAR SIZE IN mm SPACING IN mm
- THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.
7. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

1. THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH CENTRAL COAST COUNCIL'S LATEST REVISION OF THE 'ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS'
2. WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR
 - 2.1. NOTIFY THE DESIGN ENGINEER AND/OR SUPERINTENDENT
 - 2.2. CENTRAL COAST COUNCIL'S SPECIFICATION TAKES PRECEDENT

GENERAL INSTRUCTIONS

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
2. THE EXTENT AND POSITION OF THE EROSION AND SEDIMENT CONTROL MEASURES TO BE DETERMINED ON SITE BY THE CONTRACTOR TO SUIT THE CONSTRUCTION PROGRAM.
3. THESE PLANS PRESENT CONCEPTS ONLY AND THE MEASURES SHOWN ON THIS DRAWING(S) ARE MINIMUM REQUIREMENTS ONLY.
4. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT, MANAGEMENT AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES TO MEET COUNCIL STANDARDS.
5. LARGE OPEN AREAS OR STEEP BATTERS SHOULD NOT BE LEFT EXPOSED/UNSTABILISED FOR MORE THAN 10 DAYS OR IF WET WEATHER IS FORECAST.
6. EXPOSED AREAS INCLUDING BATTERS WHICH REMAIN UN-WORKED FOR MORE THAN 10 DAYS SHOULD BE STABILISED USING TEMPORARY HYDROMULCHING, HYDROSEEDING OR MULCHING, EVEN IF AREAS WILL BE WORKED AT A LATER TIME.
7. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH :-
 - a) LOCAL AUTHORITY REQUIREMENTS
 - b) EPA REQUIREMENTS
 - c) NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION" 4TH EDITION MARCH 2004
8. THE CONTRACTOR SHALL BE AWARE OF ITS RESPONSIBILITIES FOR PROTECTING THE DOWNSTREAM ENVIRONMENT AND RECEIVING WATER FROM POLLUTION AND ENVIRONMENTAL HARM, UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.
9. ADDITIONALLY THE CONTRACTOR SHALL BE AWARE OF ITS DUTY TO NOTIFY THE LOCAL AUTHORITY AND THE ENVIRONMENTAL PROTECTION AGENCY (NSW) OF A POTENTIAL OR ACTUAL INCIDENT OF ENVIRONMENTAL HARM, UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.

RECOMMENDED IMPLEMENTATION SEQUENCE:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO WORKS COMMENCING AND IN THE FOLLOWING SEQUENCE:
 - a. CONSTRUCT TEMPORARY STABILISED SITE ACCESS, ENSURING ADJACENT STORMWATER RUN OFF IS DIVERTED AWAY FROM ACCESS
 - b. INSTALL SEDIMENT FENCING AND/OR BARRIER FENCING TO CONTAIN INGRESS TO AND EGRESS FROM THE SITE TO STABILISED ACCESS POINT(S) ONLY.
 - c. PROVIDE INLET PROTECTION TO STORMWATER INLETS AND GULLIES ON ALL ROADS ADJOINING THE SITE.
 - d. CONSTRUCT BARRIER FENCING AROUND RESTRICTED 'NO-GO' ZONES OF RETAINED VEGETATION, AREAS NOT TO BE DISTURBED AND AREAS WHICH WILL REMAIN UN-WORKED.
 - e. CONSTRUCT UPSTREAM DIVERSION CHANNELS TO DIVERT CLEAN WATER AROUND WORKSITE, AND INSTALL APPROPRIATE CHANNEL STABILISATION.
 - f. CONSTRUCT LOW COW EARTH BANKS AS CATCH DRAINS PARALLEL TO CONTOURS TO LIMIT LARGE SLOPE LENGTHS (SLOPES SHOULD BE LESS THEN 80M IN LENGTH).
 - g. INSTALL ALL TEMPORARY SEDIMENT FENCES.
 - h. CONSTRUCT ANY NOMINATED SEDIMENT BASINS AND SEDIMENT TRAPS.
 - i. STABILISE ALL DISTURBED AREAS ASAP AND PROGRESSIVELY AS WORKS ARE COMPLETED. TEMPORARY STABILISATION TO BE DONE USING MULCHING, HYDROMULCHING, HYDROSEEDING OR DIRECT SEEDING TO GIVE A 70% COVERAGE OF GROUND SURFACE WITHIN 14 DAYS OF WORKS COMPLETING (EVEN IF WORKS MAY CONTINUE LATER).
2. UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO MINIMUM WORKABLE AREAS.
3. DISTURBED AREAS TO EXTEND NO MORE THAN 5 METRES (PREFERABLY 2 METRES) FROM ESSENTIAL WORKS AREAS.
4. WORK AREAS TO BE DELINEATED BY BARRIER FENCING AND DIVERSION CHANNEL UPSLOPE AND SEDIMENT FENCING DOWNSLOPE.
5. THE CONTRACTOR SHALL BE SURE THAT THE EXISTING VEGETATION AND GROUND COVER IS RETAINED AS MUCH AS POSSIBLE. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ONSITE.
6. SITE VEGETATION APPROVED FOR CLEARING SHOULD BE MULCHED AND STOCKPILED FOR LATER USE IN LANDSCAPING, STABILISATION AND/OR SITE REHABILITATION WORKS.
7. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND RECEIVING ENVIRONMENTS.
8. EROSION AND SEDIMENT CONTROL PROTECTION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONTRACT.
9. PLANS AND CONTROL MEASURES FOR LARGE SITES WILL NEED TO BE REVISED AND UPDATED TO REFLECT THE SITE STAGES AND PROGRESSION OF WORKS.
10. MEASURES INCLUDING SEDIMENT FENCES SHOULD BE MOVED AND REINSTATED AS WORKS PROGRESS.
11. FOOT AND VEHICULAR TRAFFIC TO BE RESTRICTED IN RECENTLY STABILISED AREAS INCLUDING THOSE HYDROSEEDED, TURFED OR SEEDED.

DUST CONTROL

1. DURING WINDY AND DRY WEATHER ANY UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. WHERE WATER IS NOT AVAILABLE IN SUFFICIENT QUANTITIES, SOIL BINDERS OR DUST RETARDANTS TO BE USED FOR DUST SUPPRESSION.
2. EXPOSED SURFACES INCLUDING BATTERS SHOULD BE LEFT ROUGH TO REDUCE WIND SPEEDS AND POTENTIAL FOR WIND EROSION.
3. USE OPEN WEAVE BARRIER FENCING ON WINDWARD SIDE OF SITE IF REQUIRED. FENCING IS GENERALLY REQUIRED WHERE AREA OF DISTURBANCE IS >5000m².

CONTROL MEASURES

1. FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS OF CONSTRUCTION COMPLETION.
2. SEDIMENT LADEN WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM BY USING INLET PROTECTION.
3. ALL PERIMETER BANKS AND CHANNEL DRAINS SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
4. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED ONCE SITE IS STABILISED AND UPSTREAM WORKS HAVE BEEN COMPLETED.
5. AT CONSTRUCTION COMPLETION ALL TEMPORARY EARTH STRUCTURES, INCLUDING SOIL STOCKPILES ARE TO BE TRACK ROLLED AND SEEDED. THE CONTRACTOR IS TO ENSURE A 70% COVERAGE WITHIN 14 DAYS.

OTHER MATTERS

1. ACCEPTABLE RECEPTORS AND DISPOSAL PRACTICES WILL BE USED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHERS, LITTER AND GENERAL WASTE MATERIALS.
2. ANY EXISTING TREES WHICH ARE NOT REQUIRED OR APPROVED TO BE CLEARED FOR THE WORKS AND/OR FORM PART OF THE FINAL LANDSCAPING PLAN SHOULD BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - a. PROTECTING THEM WITH BARRIER FENCING OR MARKERS.
 - b. ENSURING NOTHING IS NAILED TO THEM
 - c. PROHIBITING PAVING, GRADING OR PLACING OF STOCKPILES WITHIN DRIP LINE.
3. ALL VEHICLE AND EQUIPMENT WASHING SHOULD BE CONTAINED IN SPECIFIC BUNDED AREAS, DISCONNECTED FROM CONCENTRATED FLOW PATHS AND THE STORMWATER SYSTEM.
4. ANY NECESSARY VEHICLE OR EQUIPMENT REFUELING SHOULD BE UNDERTAKEN AWAY FROM CONCENTRATED FLOW PATHS AND PREFERABLY WITHIN A BUNDED AREA.
5. ANY ONSITE FUEL STORAGE AREAS SHOULD BE COVERED AND BUNDED.

MAINTENANCE OF PUBLIC ROADS

1. ALL CONSTRUCTION VEHICLES DEPARTING FROM THE SITE SHALL HAVE THEIR TYRES WASHED DOWN OR SEDIMENT REMOVED BY A STABILISED SITE ACCESS DEVICE.
2. THE STABILISED SITE ACCESS AREAS SHALL BE LOCATED SUCH THAT SILENT WATER IS FILTERED THROUGH A SUITABLE SEDIMENT TRAP (SUCH AS A SEDIMENT FENCE) INSTALLED DOWNSTREAM OF ACCESS.
3. THE CONTRACTOR SHALL INSPECT THE PUBLIC ROADS ADJACENT TO THE SITE DAILY AND MANUALLY REMOVE ANY SEDIMENT DEPOSITS (BY SWEEPING NOT WASH DOWN).

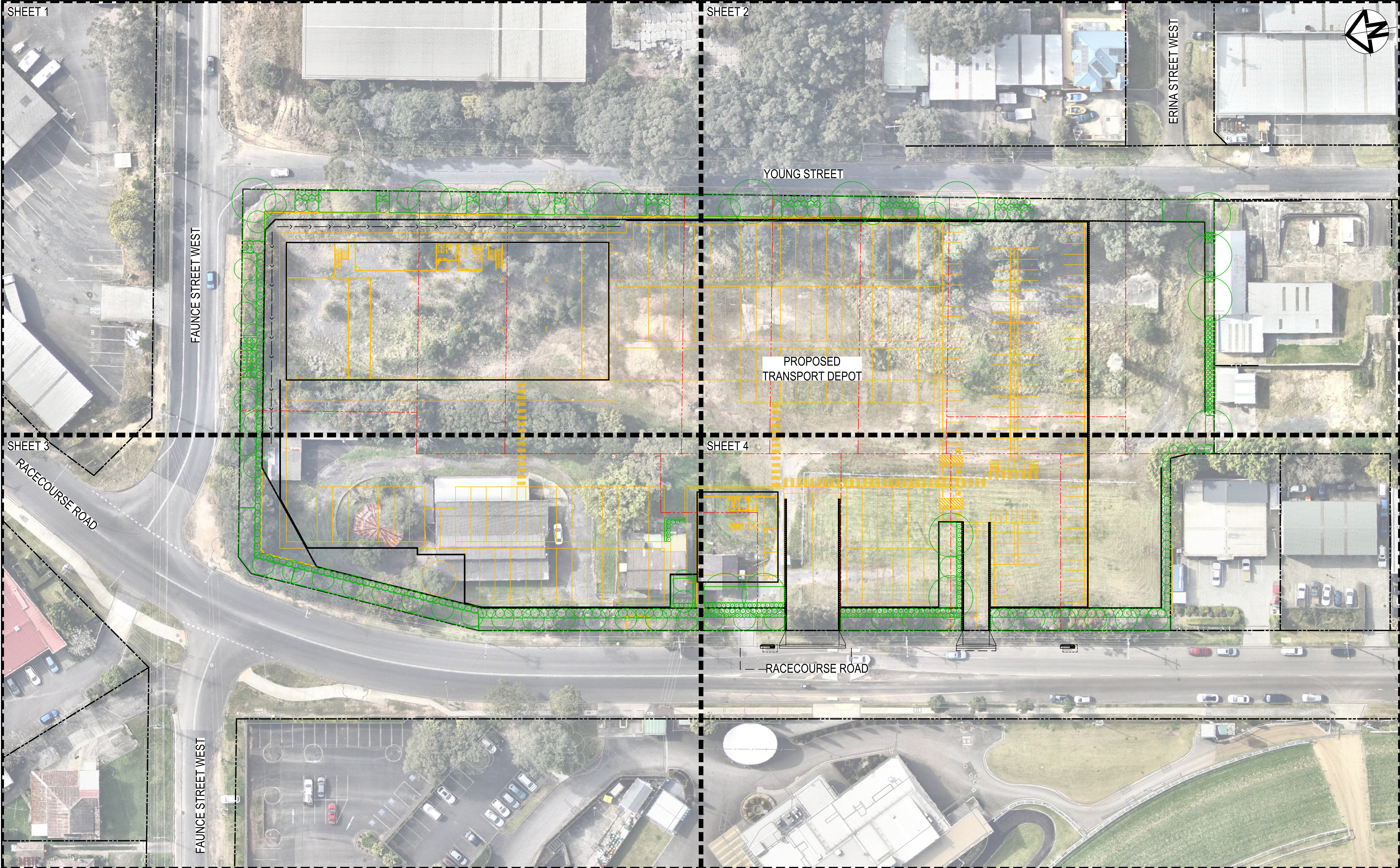
SITE INSPECTION AND MAINTENANCE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED REGULARLY, IMMEDIATELY BEFORE SITE CLOSURE, PRIOR TO PREDICTED LARGE STORM EVENTS AND AFTER EVERY SIGNIFICANT (> 5MM) RAINFALL EVENT OR AT LEAST ON A WEEKLY BASIS.
2. THE CONTRACTOR WILL AS A MINIMUM CONDUCT EACH INSPECTION IN LINE WITH THE FOLLOWING:
 - a. RECORD TYPE OF DEVICE/CONTROL MEASURE BEING INSPECTED AND ITS LOCATION.
 - b. RECORD THE CONDITION OF EVERY CONTROL MEASURE;
 - c. RECORD MAINTENANCE REQUIREMENTS FOR EVERY CONTROL DEVICE;
 - d. RECORD SEDIMENT VOLUMES REMOVED FROM SEDIMENT TRAPPING DEVICES;
 - e. RECORD DETAILS OF SEDIMENT BASIN TREATMENT.

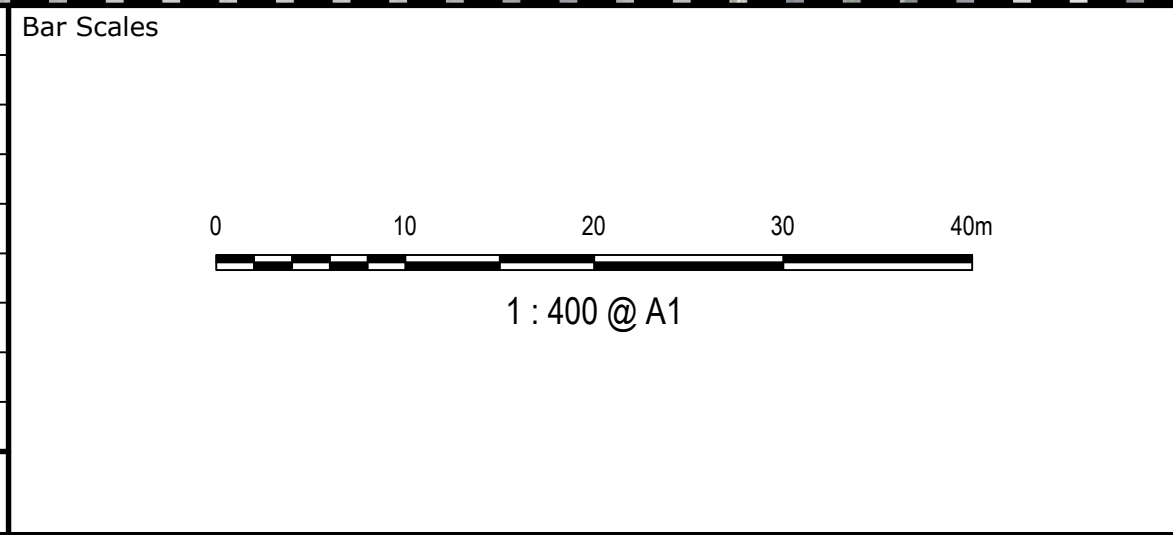
LEGEND

Feature	Symbol
Bench Mark	
Comms Underground	
Comms Pit/Manhole	
Comms Pillar	
Drainage Grated Pit	
Drainage Kerb Inlet Pit	
Electrical Power Pole	
Electrical Underground Cable	
Fence	
Gate	
Road Bollard	
Sewer Manhole	
Sewer Pipe	
Sign Post	
Tree (Height, Trunk Diameter, Spread)	
Water Meter	
Water Tap	
Water Stop Valve	
Water Hydrant	
Bottom of Bank	
Top of Bank	

[illegible]



A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date



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Client

WALUYA PTY LTD

Scales	1:400	Drawn	CK
		Designed	CK
Grid	MGA56	Checked	GJ
Height Datum	AHD	Approved	AT

Project

TRANSPORT DEPOT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

Title

GENERAL ARRANGEMENT
PLAN

Civil Engineers and Project Managers

Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

at&l

Status

FOR INFORMATION
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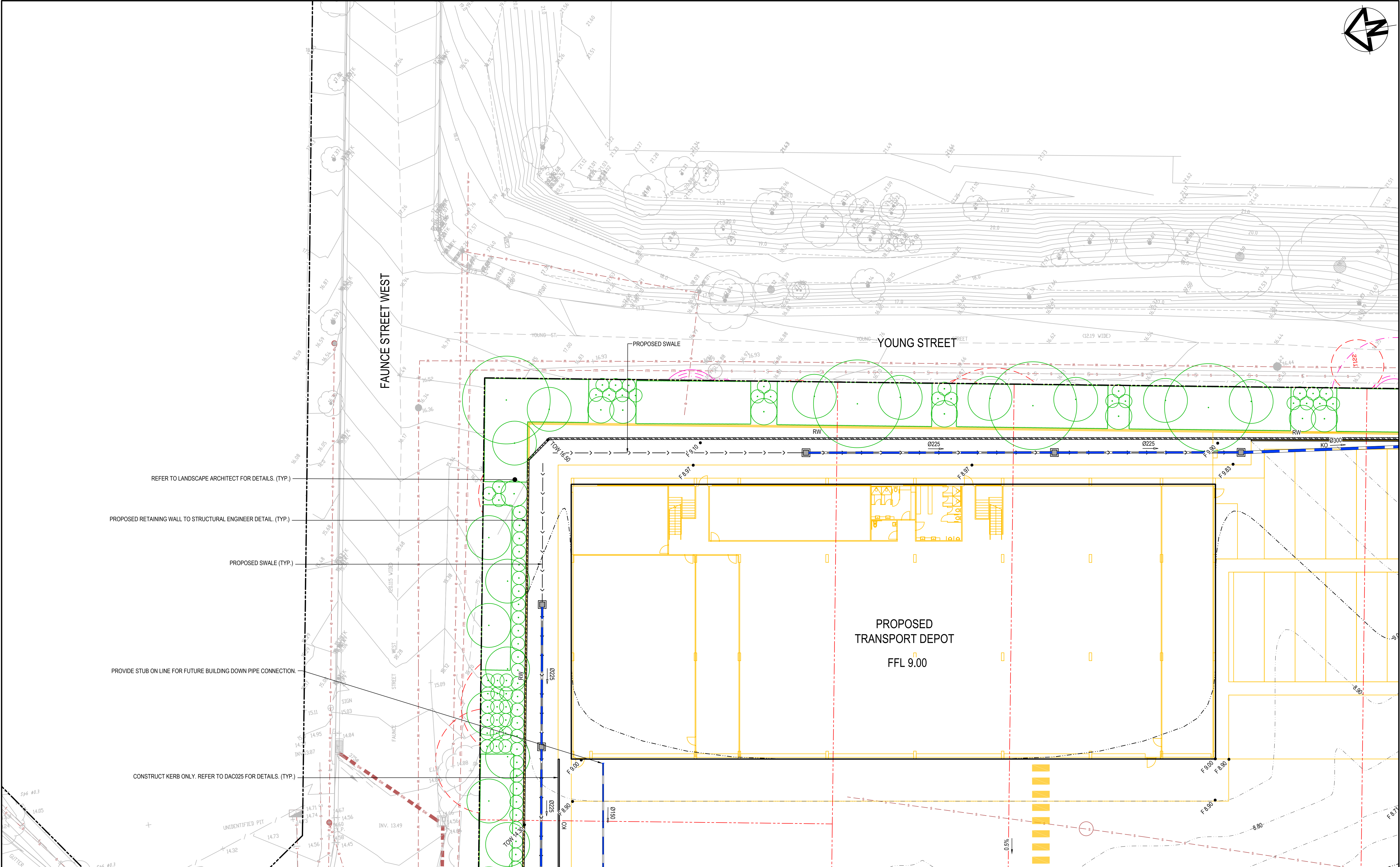
Project - Drawing No.

22-1063-DAC003

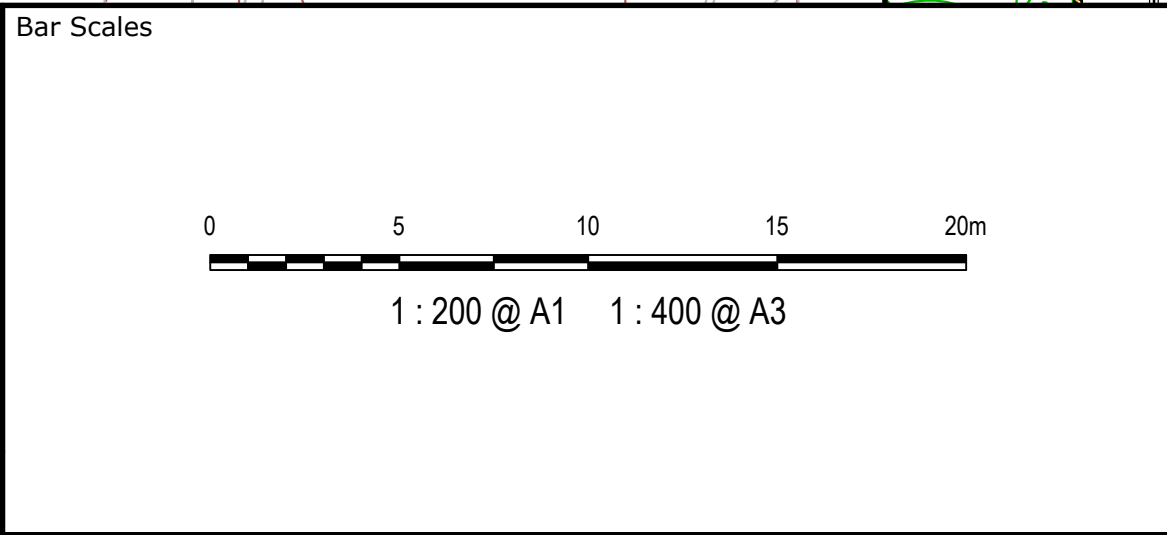
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Issue

A



A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date



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Client

WALUYA PTY LTD

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		Designed	BL
Grid	MGA56	Checked	GJ
Height Datum	AHD	Approved	AT

Project

TRANSPORT DEPORT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

Title

SITWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 1

Civil Engineers and Project Managers

Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

at&l

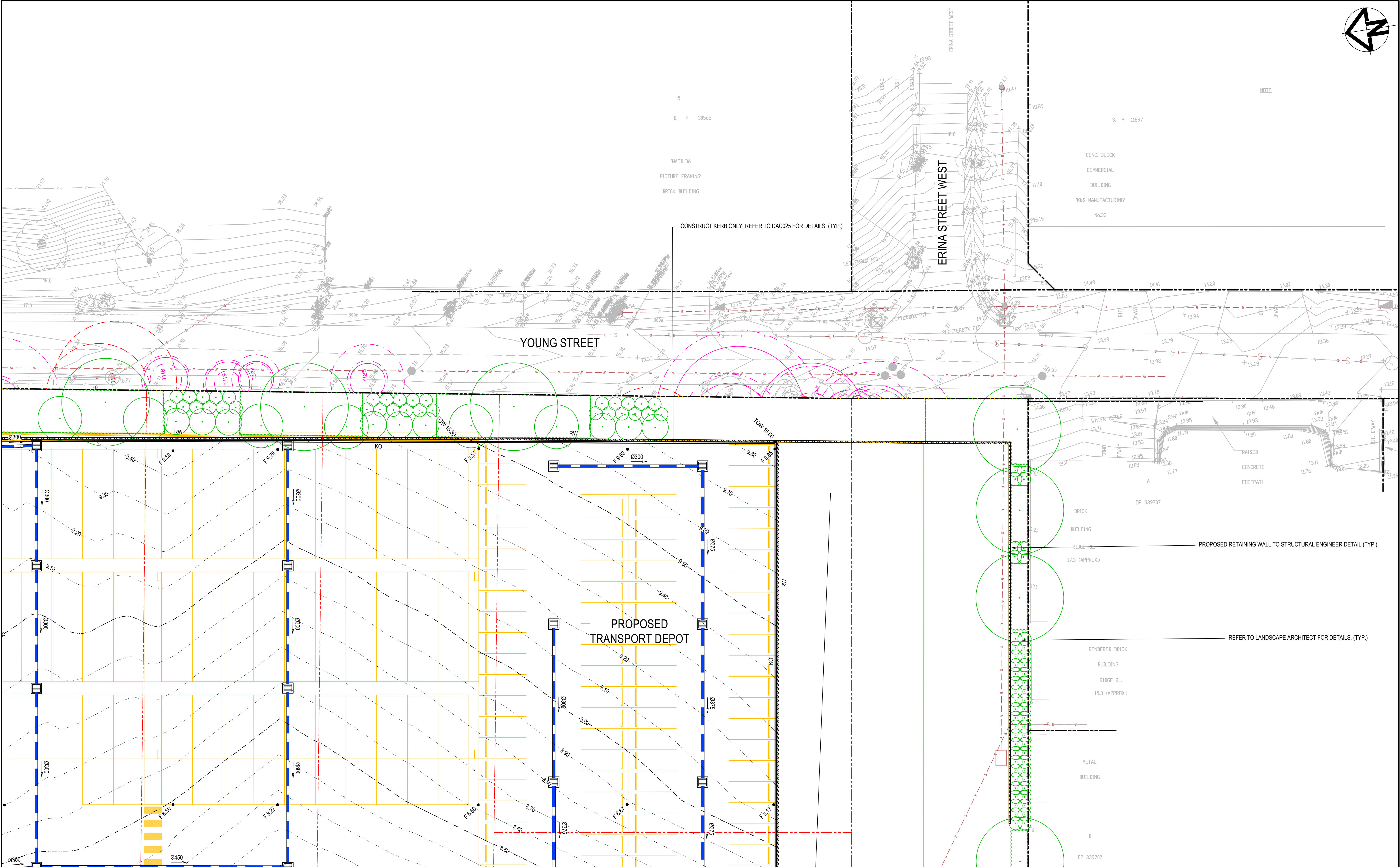
Status

FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
22-1063-DAC011

A1

Issue
A



Bar Scales		
0 5 10 15 20m		
1 : 200 @ A1 1 : 400 @ A3		
A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date

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Client
WALUYA PTY LTD

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		Designed	BL
	Grid MGA56	Checked	GJ
	Height Datum AHD	Approved	AT

Project
TRANSPORT DEPORT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

Title
SITWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 2

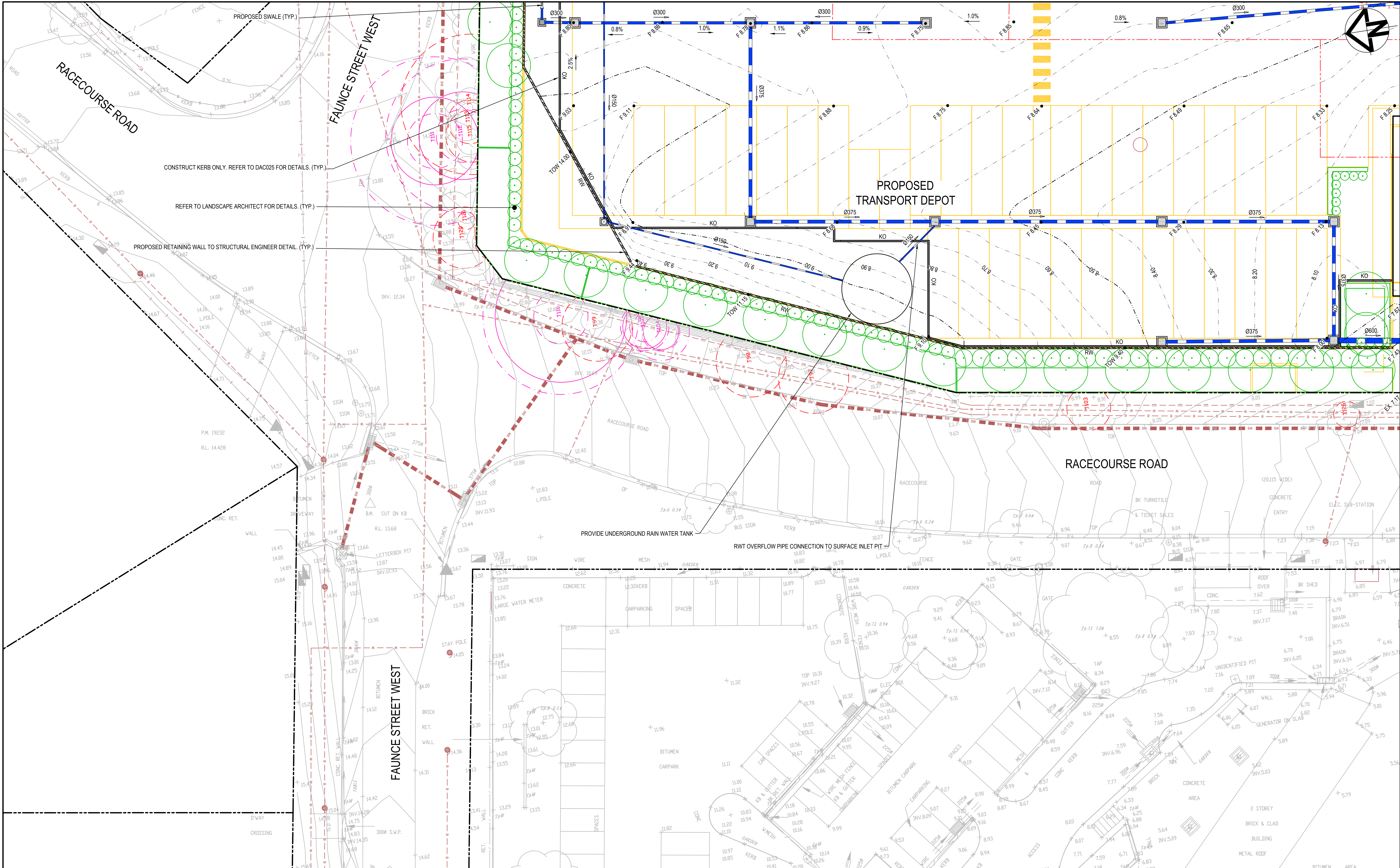
Civil Engineers and Project Managers
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

at&l

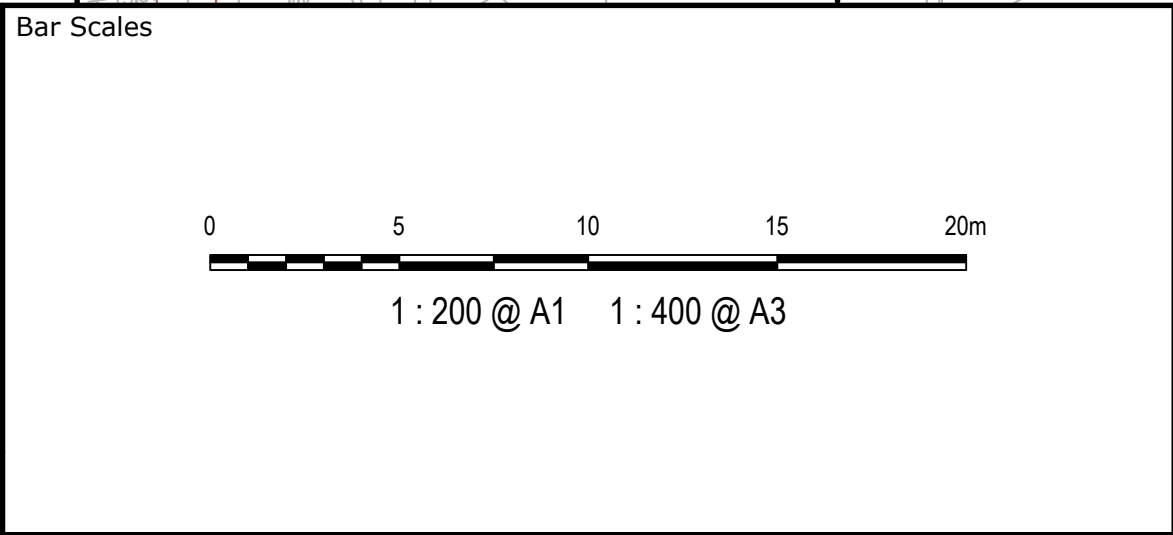
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FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
22-1063-DAC012

A1
Issue
A



A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date



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Client

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		Designed	BL
Grid	MGA56	Checked	GJ
Height Datum	AHD	Approved	AT

Project

TRANSPORT DEPORT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

Title

SITWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 3

Civil Engineers and Project Managers

Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

at&l

Status

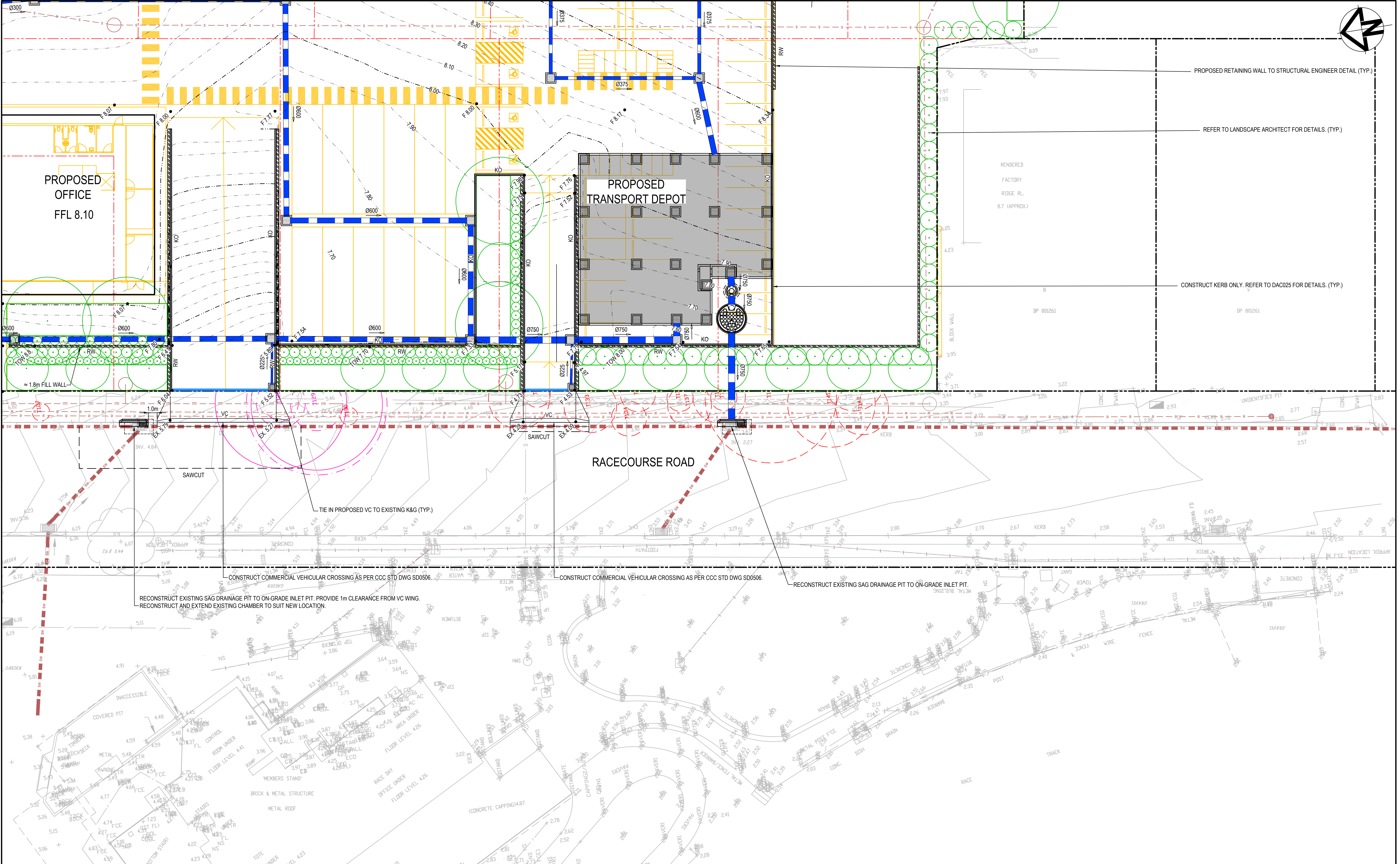
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Project - Drawing No.

22-1063-DAC013

Issue

A



A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date

Bar Scales

0

5

10

15

20m

1 : 200 @ A1 1 : 400 @ A3

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Client

WALUYA PTY LTD

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		Designed	BL
Grid	MGA56	Checked	GJ
Height Datum	AHD	Approved	AT

Project
TRANSPORT DEPORT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

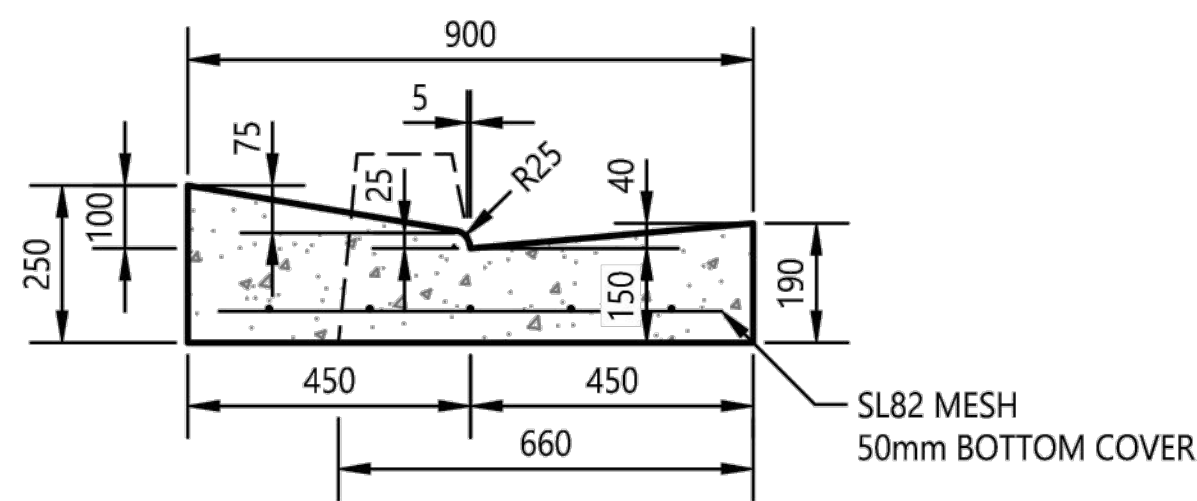
Title
SITWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 4

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

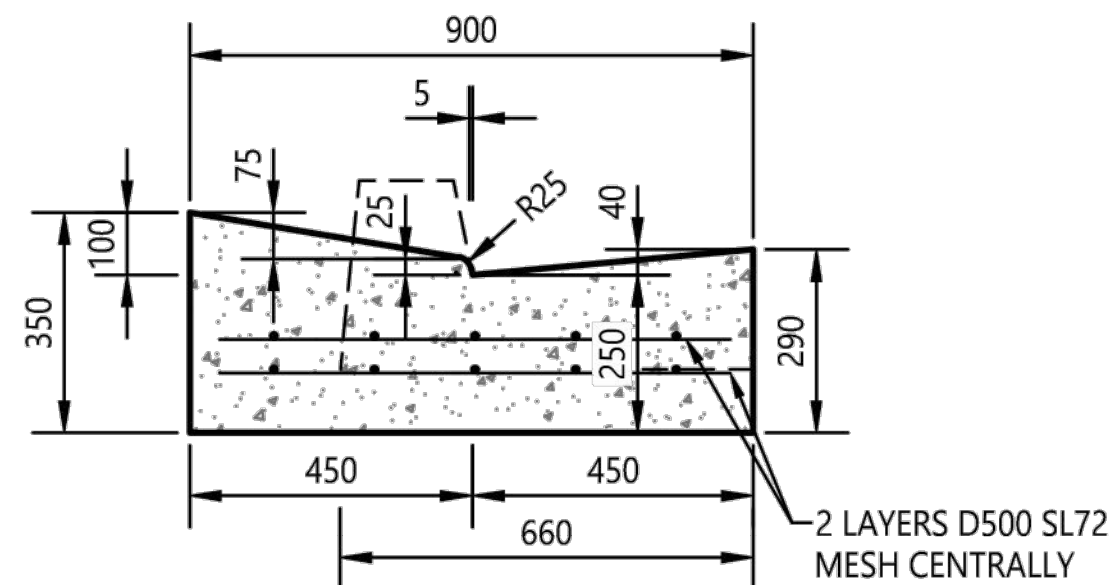
Status
FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
22-1063-DAC014

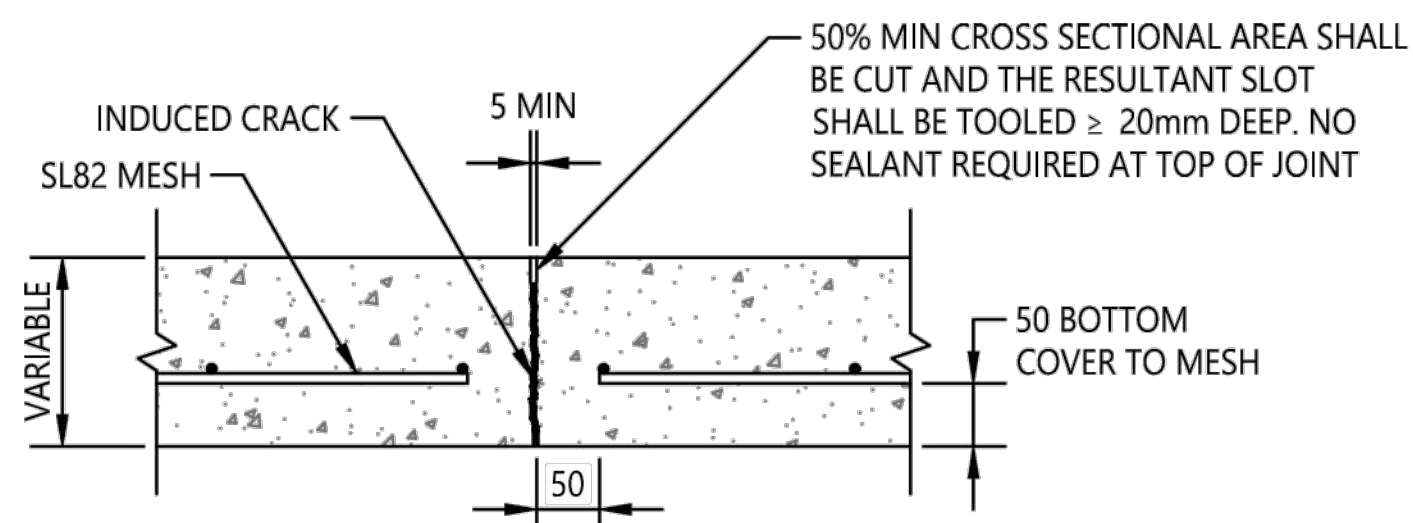
A1
Issue
A



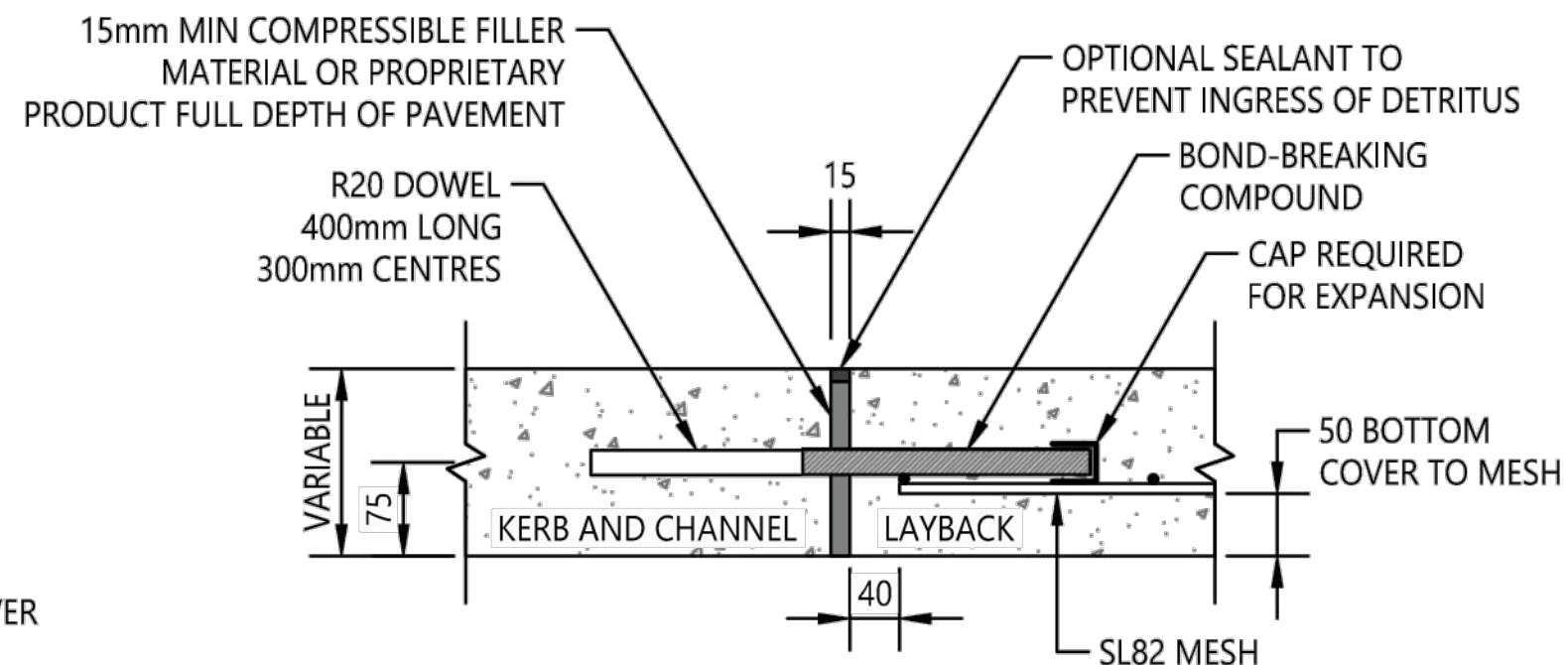
STANDARD LAYBACK
SCALE 1:20



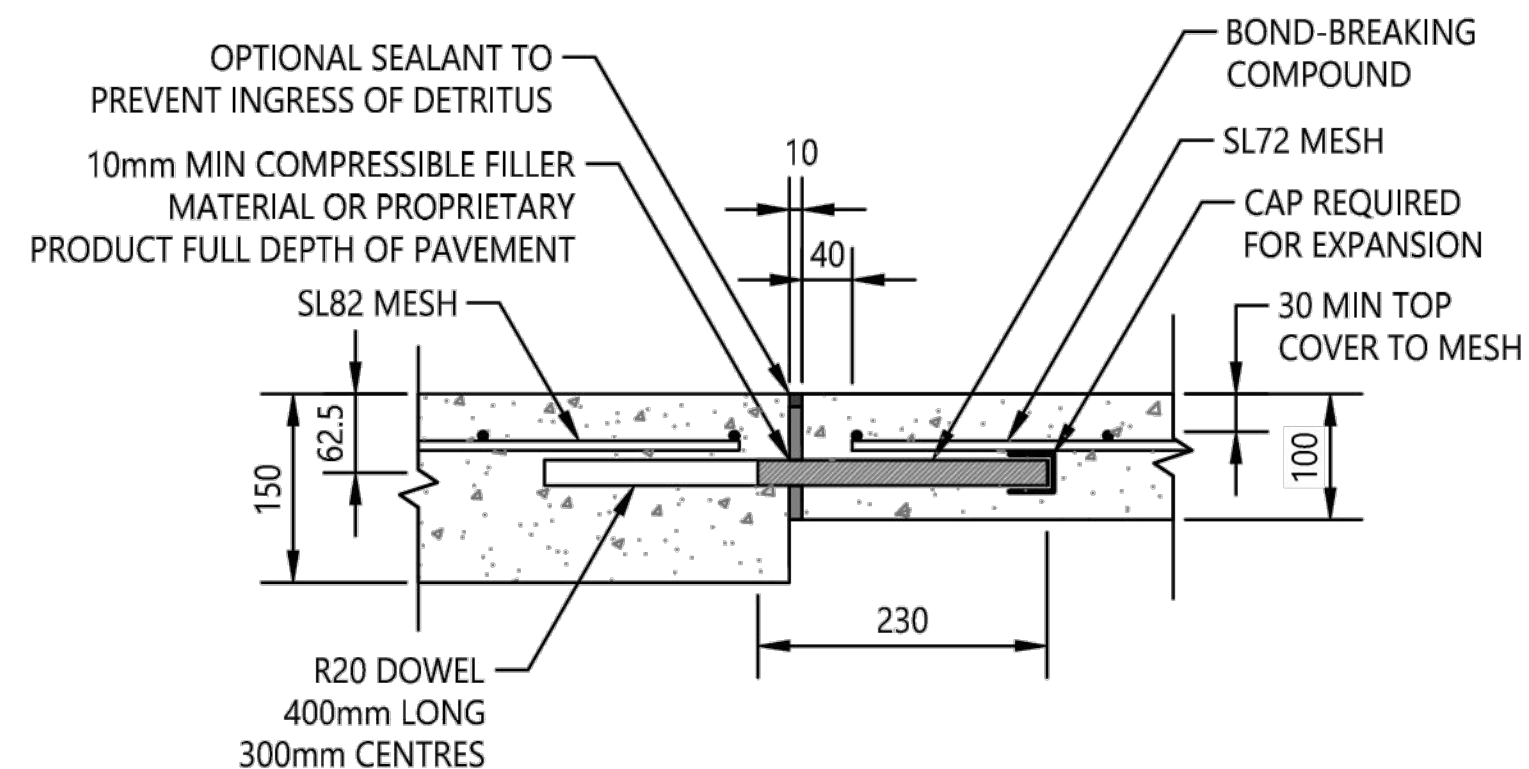
HEAVY DUTY LAYBACK
SCALE 1:20



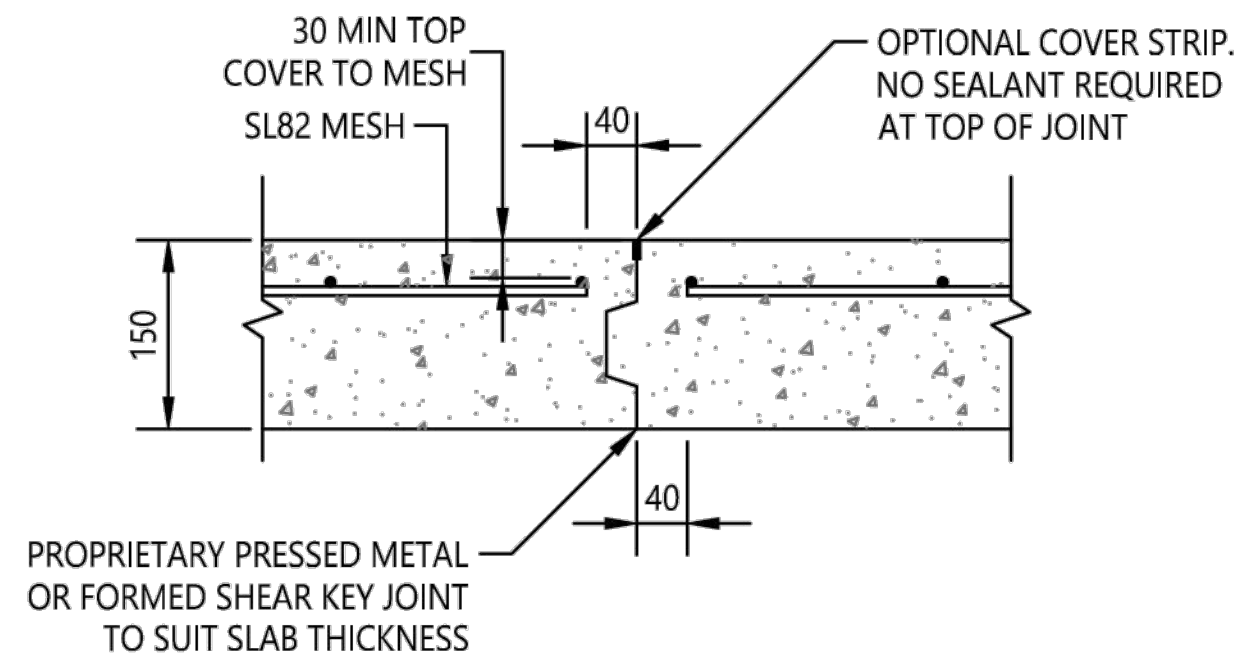
CONTROL JOINT (CJ) IN LAYBACK
SCALE 1:10



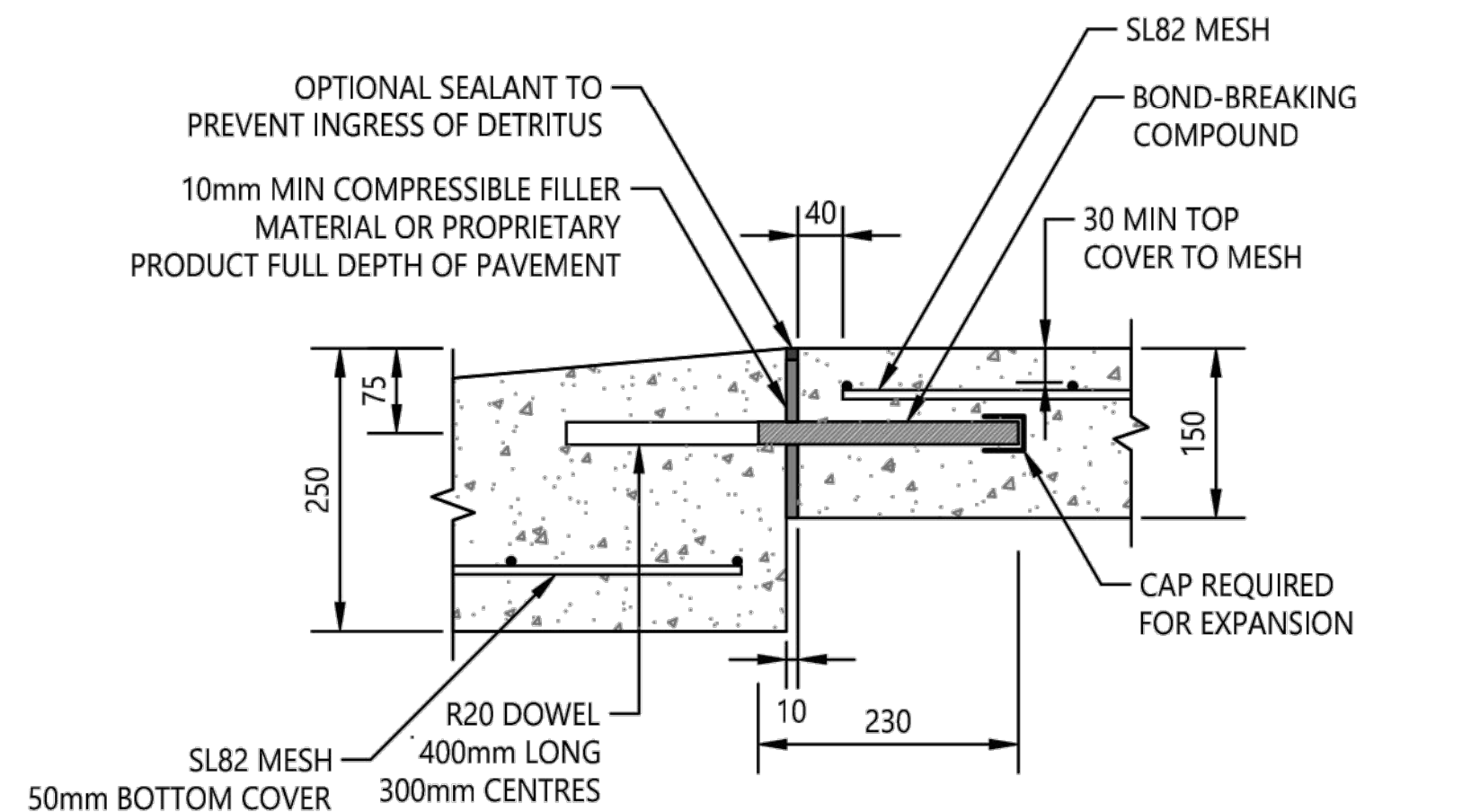
EXPANSION JOINT (EJ) KERB AND CHANNEL TO LAYBACK
SCALE 1:10



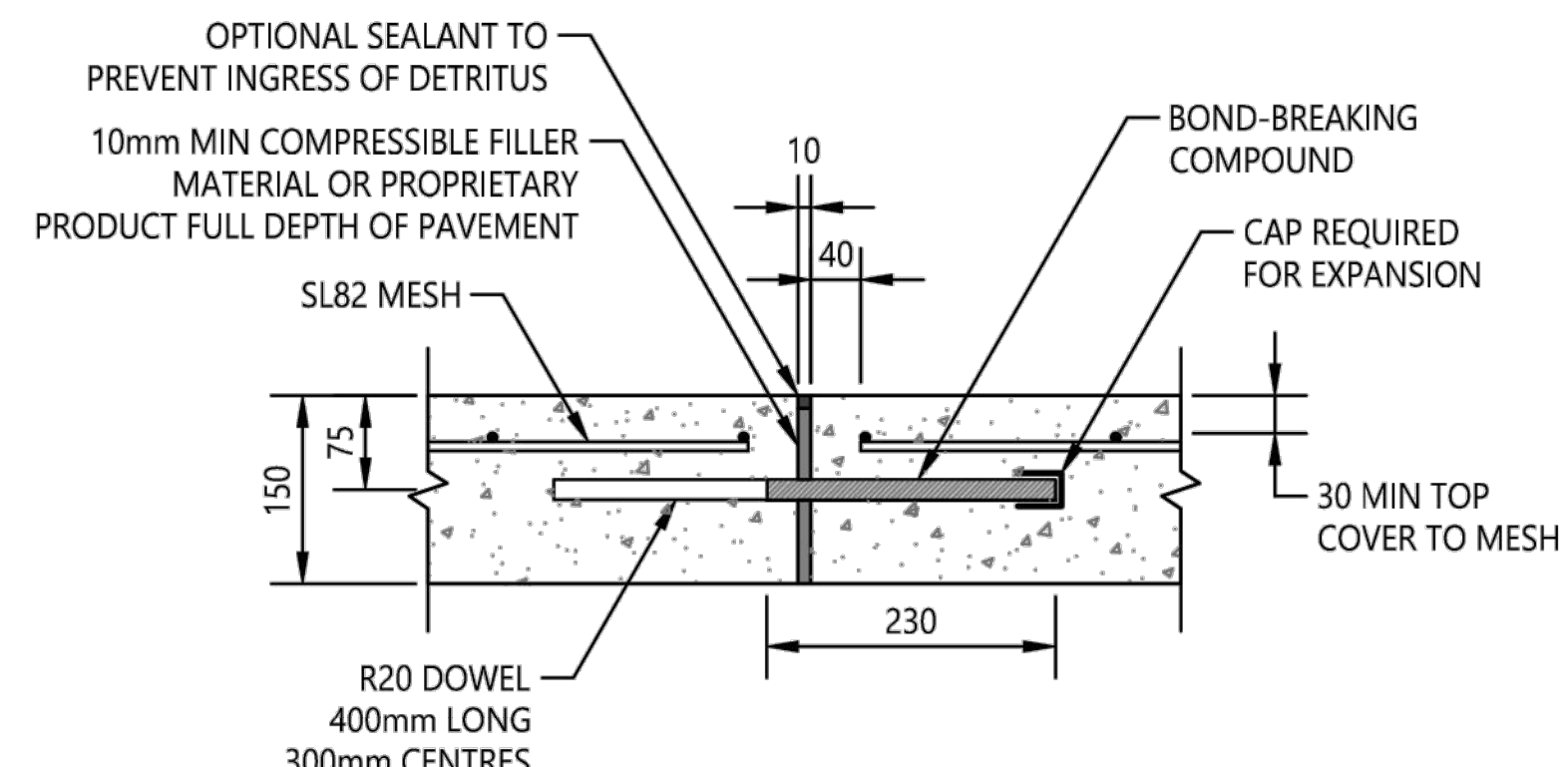
EXPANSION JOINT (EJ) 150mm TO 100mm
VEHICLE ACCESS CROSSING TO FOOTPATH
SCALE 1:10



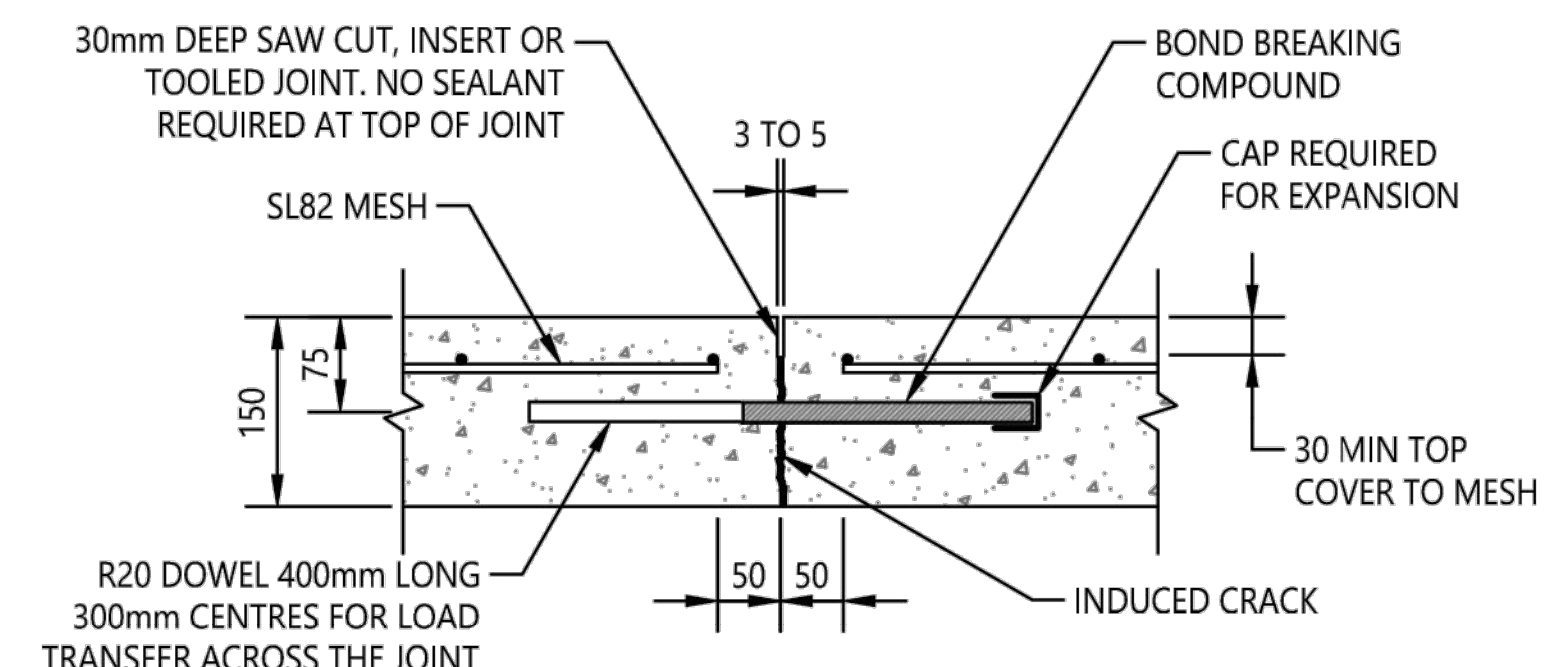
CONTROL JOINT (CJ) 150mm - TYPE 1
SCALE 1:10



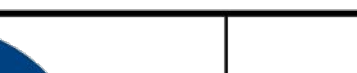

EXPANSION JOINT (EJ) 250mm TO 150mm
LAYBACK TO VEHICLE ACCESS CROSSING
SCALE 1:10



EXPANSION JOINT (EJ) 150mm
SCALE 1:10



CONTROL JOINT (CJ) - TYPE 2
SCALE 1:10

					SCALE ON ORIGINAL A3 SIZE DRAWING	DRAWN	T WILLIS		Central Coast Council		STANDARD DRAWING	
					AS SHOWN	CHECKED	M BAMBER		KERB AND CHANNEL SERIES INDUSTRIAL AND COMMERCIAL VEHICLE ACCESS CROSSING FOR ROADS WITH KERB AND CHANNEL	DRAWING NUMBER	REV	
						DATE	28/4/20			SD0506	-	
						UNIT MANAGER APPROVAL					SHEET 2 OF 2	A3
REV	AMENDMENT	DATE	DRAWN	APRVD	ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN	ASSETS PLANNING AND DESIGN		ROADS TRANSPORT DRAINAGE AND WASTE				

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Issue	Description	Date
A	ISSUE FOR INFORMATION	15-12-22

Bar Scales
100mm on Original

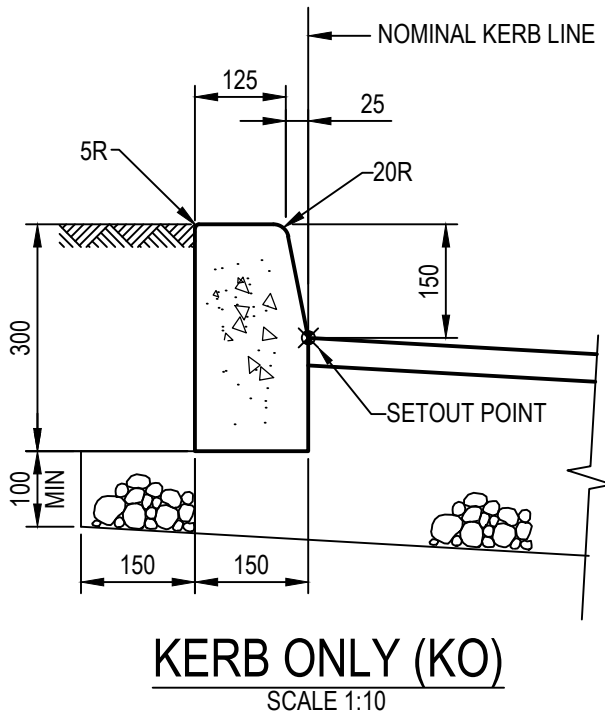
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Client
WALUYA PTY LTD

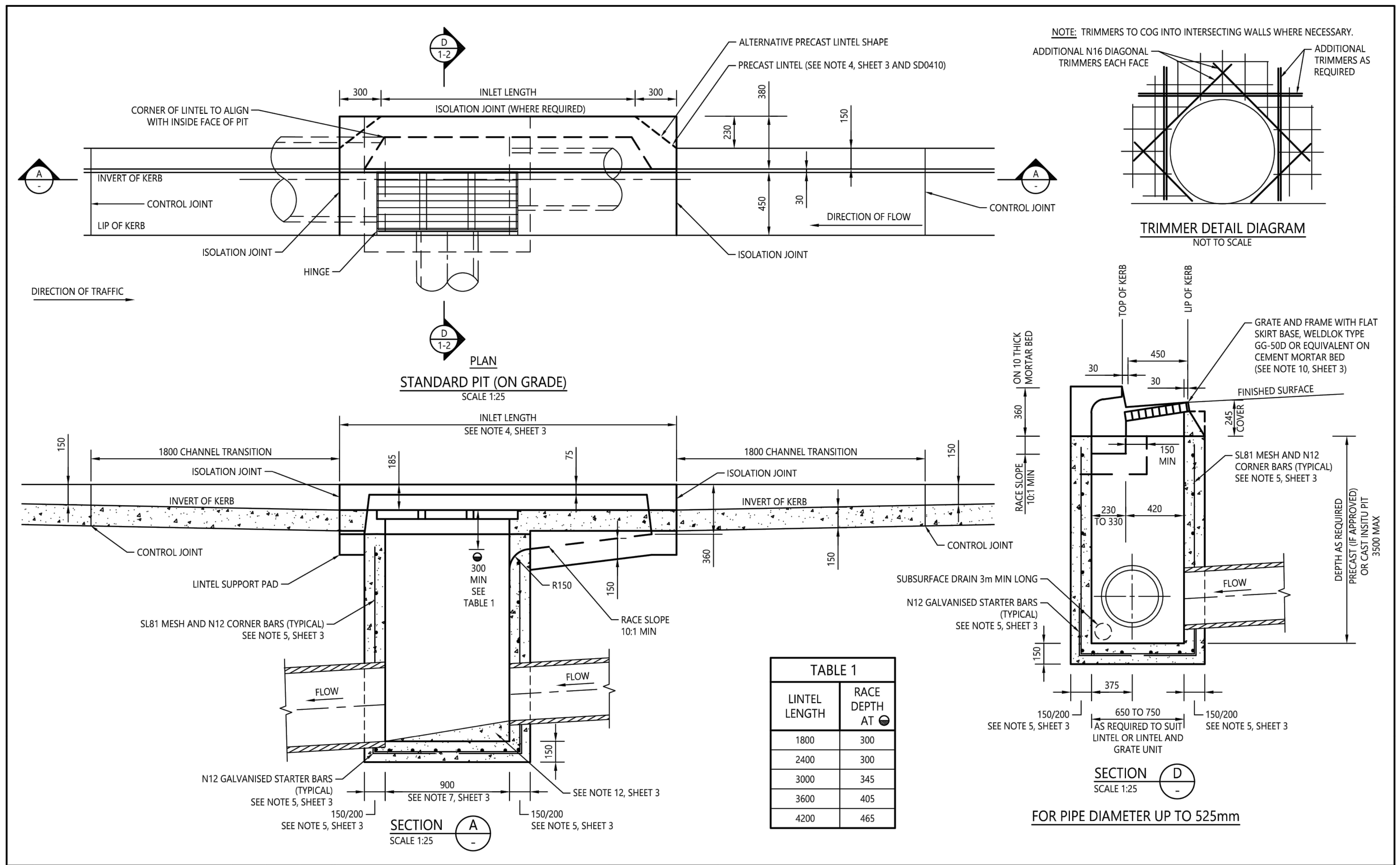
Scales	Drawn	CK
NTS	Designed	CK
Grid	Checked	GJ
MGA56	Approved	AT
Height Datum	Approved	AT
AHD		



Project	TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD
Title	SITEWORKS DETAILS SHEET 2

Civil Engineers and Project Managers		at&l	
Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405		Status FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No. 22-1063-DAC022		Issue A	



			<div>Bar Scales</div> <div><div><div>01002004006008001000mm</div><div>1 : 10 @ A1 1 : 20 @ A3</div></div></div>	<div>THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L</div>	<div>Client</div> <div>WALUYA PTY LTD</div>	<div>Scales</div> <div>AS SHOWN</div>	<div>Drawn</div> <div>CK</div>	<div>Project</div> <div>TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD</div>	<div>Civil Engineers and Project Managers</div> <div><div>at&l</div><div>Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405</div></div>	<div>Status</div> <div>FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION</div>	<div>A1</div>
	<div>Designed</div> <div>CK</div>										
	<div>Checked</div> <div>GJ</div>										
	<div>Grid</div> <div>MGA56</div>	<div>Height Datum</div> <div>AHD</div>				<div>Title</div> <div>SITEWORKS DETAILS SHEET 3</div>	<div>Project - Drawing No.</div> <div>22-1063-DAC023</div>	<div>Issue</div> <div>A</div>			
A	ISSUE FOR INFORMATION	15-12-22									
Issue	Description	Date									

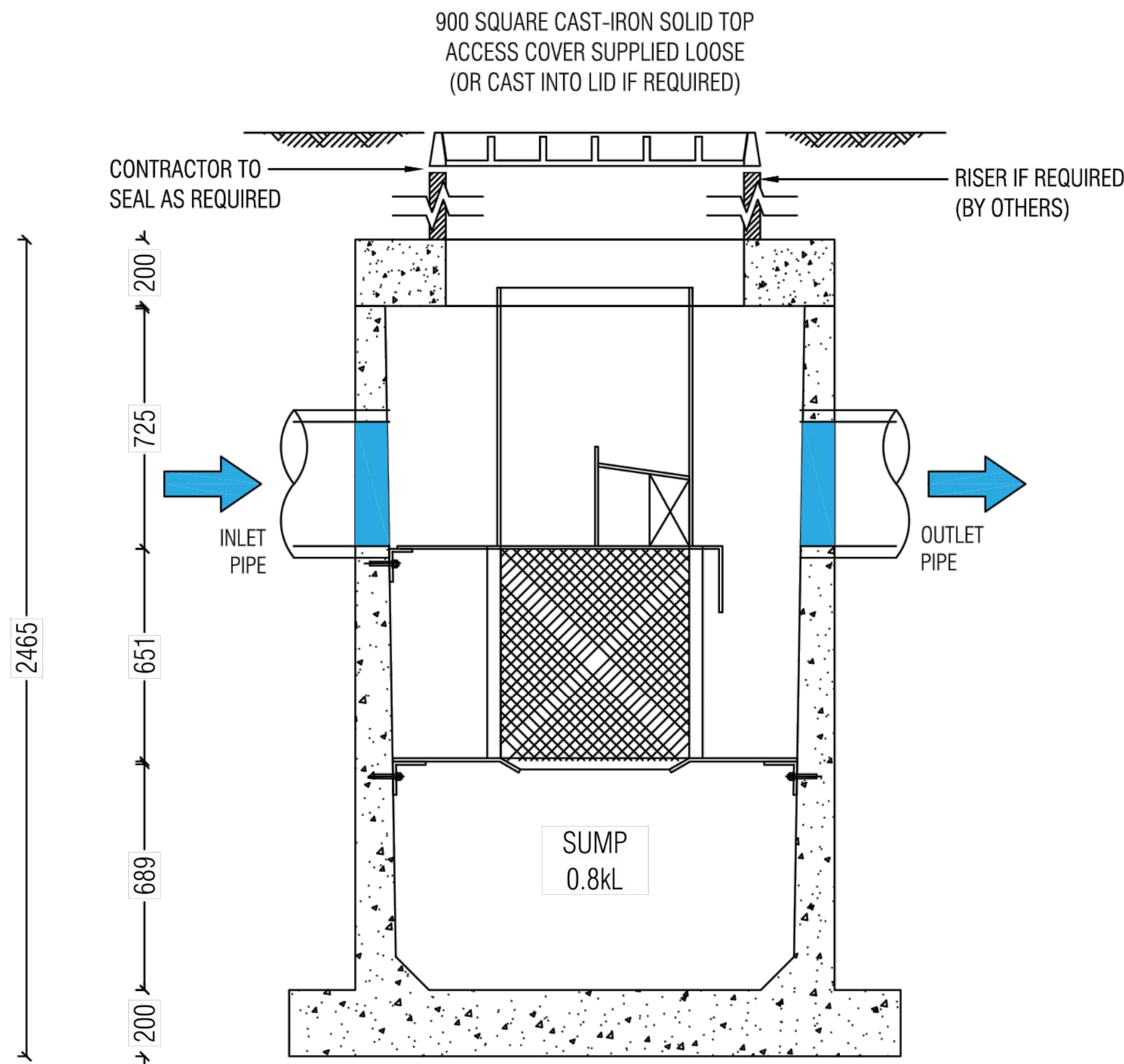
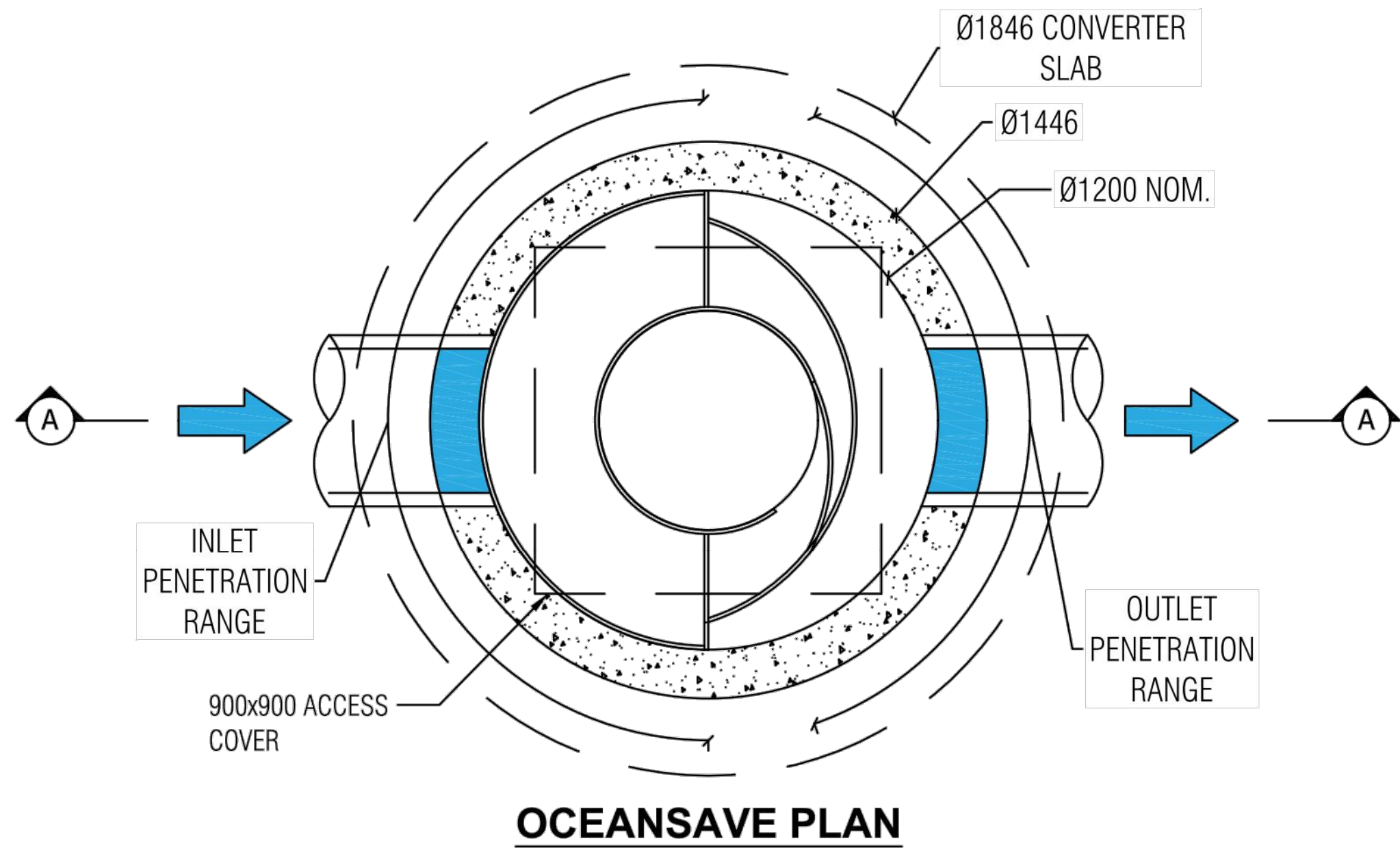


					SCALE ON ORIGINAL A3 SIZE DRAWING	DRAWN	C SHEPPEARD		Central Coast Council		STANDARD DRAWING	
						CHECKED	M BAMBER		STORMWATER DRAINAGE SERIES STANDARD GRATED GULLY PIT	DRAWING NUMBER	REV	
						DATE	28/4/20			SD0401	-	
						UNIT MANAGER APPROVAL						
REV	AMENDMENT	DATE	DRAWN	APRVD	ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN	ASSETS PLANNING AND DESIGN		ROADS TRANSPORT DRAINAGE AND WASTE	SHEET 1 OF 3		A3	

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		Bar Scales		THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L		Client		Scales		Drawn		Project		Civil Engineers and Project Managers	
						WALUYA PTY LTD		NTS		CK		TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD		Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405	
								MGA56		CK		STORMWATER DRAINAGE DETAILS SHEET 1		at&l	
								AHD		GJ		Title		Status	
										AT		22-1063-DAC025		FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION	
A		ISSUE FOR INFORMATION		15-12-22								Project - Drawing No.		22-1063-DAC025	
Issue		Description		Date										Issue	
														A	

NOT FOR CONSTRUCTION

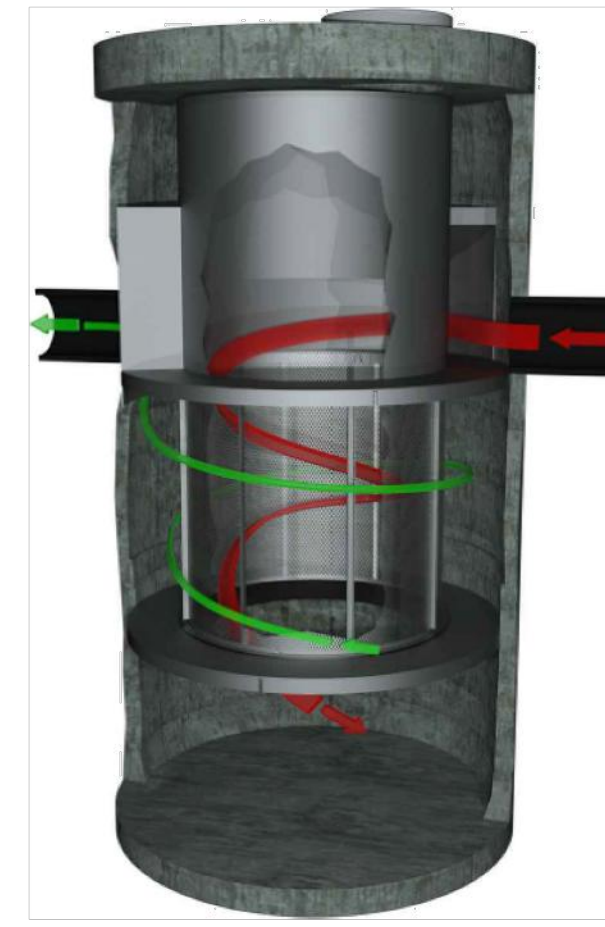


LAST MODIFIED: 25-02-19

OCEANSAVE DESIGN TABLE

TO BE INSTALLED ONLINE THE TOTAL INLET PIPE FLOW RATE MUST BE LESS THAN THE SPECIFIED UNITS LISTED MAXIMUM TOTAL FLOW RATE; THE UNIT MUST BE PLACED OFFLINE WHERE THE INLET FLOW RATE EXCEEDS THIS VALUE.

TREATABLE FLOWRATE [L/s]	28
MAXIMUM TOTAL FLOWRATE [L/s]	228
WEIR HEIGHT [mm]	300



SITE SPECIFIC DATA REQUIREMENTS

TOTAL FLOWRATE THROUGH INLET [L/S]		[]	
PIPE DATA:	I.L.	MATERIAL	DIAMETER
INLET PIPE	[]	[]	[]
OUTLET PIPE	[]	[]	[]
UPPER TANK WEIGHT		TBA	
LOWER TANK WEIGHT		TBA	

NOTE: TANK SUPPLIED IN TWO PARTS; PARTS A & B TO BE JOINED ON SITE

GENERAL NOTES

- OCEANSAVE WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF THE PROJECT.
- PRECAST STRUCTURE SUPPLIED WITH CORE HOLES TO SUIT OUTER DIAMETER OF NOMINATED PIPE SIZE / MATERIAL.
- PRECAST STRUCTURE SHALL MEET W80 WHEEL LOAD RATING ASSUMING A MAXIMUM EARTH COVER OF 2.0m AND A GROUND WATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER TO CONFIRM ACTUAL GROUNDWATER ELEVATION. PRECAST STRUCTURE SHALL BE IN ACCORDANCE WITH AS3600.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
- DRAWING NOT TO SCALE.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATION AND SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER.
- CONTRACTOR TO PROVIDE ALL EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING DETAIL PROVIDED SEPARATELY).
- CONTRACTOR TO INSTALL AND LEVEL THE STRUCTURE, APPLY SEALANT TO ALL JOINTS AND TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT SCREEN & SEPARATION CYLINDER COMPONENTS DURING INSTALLATION



PHONE: 1300 354 722

www.oceanprotect.com.au

OCEAN PROTECT
OCEANSAVE 0606
SPECIFICATION DRAWING

A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date

Bar Scales

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Client

WALUYA PTY LTD

Scales
NTS

Grid
MGA56

Height Datum
AHD

Drawn
CK

Designed
CK

Checked
GJ

Approved
AT

Project
TRANSPORT DEPORT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

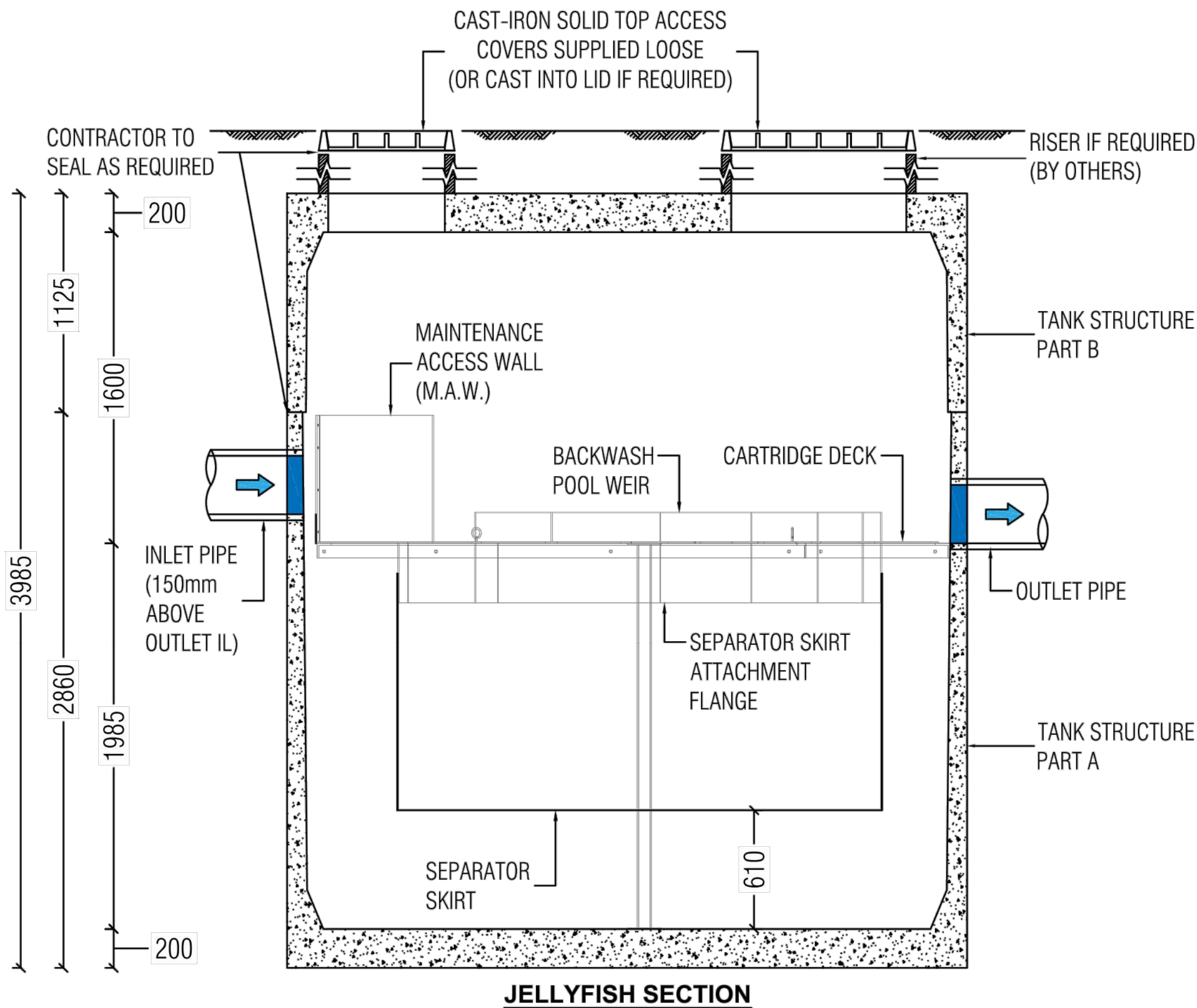
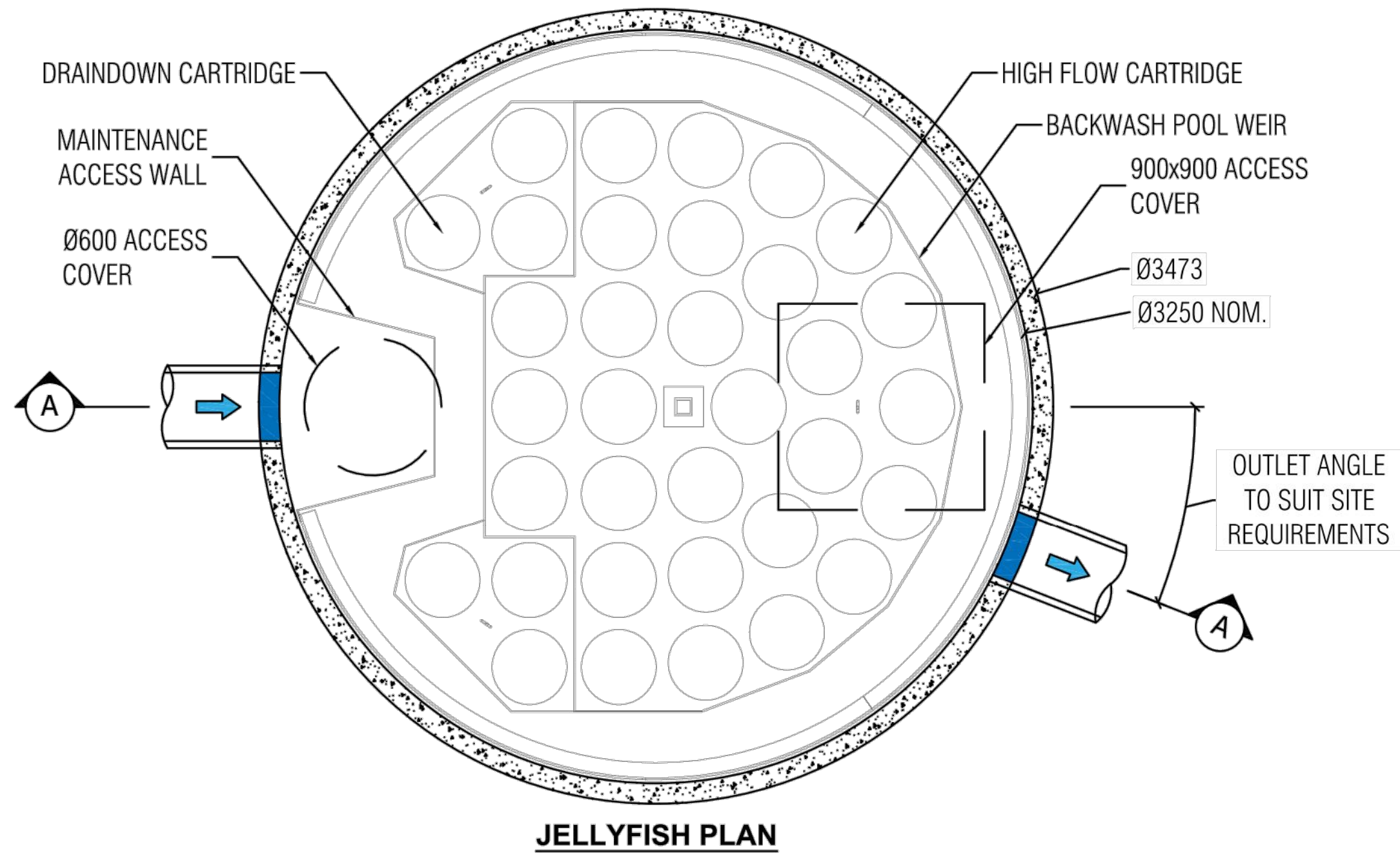
Title
STORMWATER DRAINAGE
DETAILS
SHEET 2

Civil Engineers and Project Managers
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
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www.atl.net.au
ABN 96 130 882 405

at&l

Status FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. 22-1063-DAC026	Issue A

NOT FOR CONSTRUCTION



LAST MODIFIED: 25-02-19

JELLYFISH DESIGN TABLE

JELLYFISH TREATMENT FLOW IS A FUNCTION OF THE NUMBER OF CARTRIDGES AND THE DEVICE TOTAL HEAD DIFFERENTIAL. IF THE PIPE FLOW EXCEEDS THE TREATMENT FLOW THEN AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

REQUIRED DEVICE TOTAL HEAD DIFFERENTIAL [mm]	460	230
CARTRIDGE FLOW RATE FOR HIGH-FLOW / DRAINDOWN [L/s]	5 / 2.5	2.5 / 1.25
CARTRIDGE LENGTH [mm]	1375	1375
OUTLET INVERT TO STRUCTURE INVERT [mm])	1985	1985



SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (L/S)			
# OF CARTRIDGES REQUIRED (HF - DD)	-		
CARTRIDGE SIZE	1375		
PIPE DATA:	I.L.	MATERIAL	DIAMETER
INLET PIPE			
OUTLET PIPE			
UPPER TANK WEIGHT	7,500kg		
LOWER TANK WEIGHT	12,500kg		

NOTE: TANK SUPPLIED IN TWO PARTS; PARTS A & B TO BE JOINED ON SITE

GENERAL NOTES

- JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF THE PROJECT.
- PRECAST STRUCTURE SUPPLIED WITH CORE HOLES TO SUIT OUTER DIAMETER OF NOMINATED PIPE SIZE / MATERIAL.
- PRECAST STRUCTURE SHALL MEET W80 WHEEL LOAD RATING ASSUMING A MAXIMUM EARTH COVER OF 2.0m AND A GROUND WATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER TO CONFIRM ACTUAL GROUNDWATER ELEVATION.PRECAST STRUCTURE SHALL BE IN ACCORDANCE WITH AS3600.
- IF THE PEAK FLOW RATE, AS DETERMINED BY THE SITE CIVIL ENGINEER, EXCEEDS THE TREATMENT FLOW RATE OF THE SYSTEM, AN UPSTREAM BYPASS STRUCTURE IS REQUIRE.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
- DRAWING NOT TO SCALE.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATION AND SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER.
- CONTRACTOR TO PROVIDE ALL EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING DETAIL PROVIDED SEPARATELY).
- CONTRACTOR TO INSTALL AND LEVEL THE STRUCTURE, APPLY SEALANT TO ALL JOINTS AND TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
- CARTRIDGE INSTALLATION, BY OCEANPROTECT, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT OCEAN PROTECT TO COORDINATE CARTRIDGE INSTALLATION WITH SITE COMPLETION.



PHONE: 1300 354 722

www.oceanprotect.com.au

OCEAN PROTECT
JELLYFISH 3250
STANDARD PRODUCT DRAWING

A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date

Bar Scales

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Client

WALUYA PTY LTD

Scales

NTS

Grid

MGA56

Height Datum

AHD

Drawn

Designed

Checked

Approved

CK

CK

GJ

AT

Project

TRANSPORT DEPORT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

Title

STORMWATER DRAINAGE
DETAILS
SHEET 3

Civil Engineers and Project Managers

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NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

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Status
FOR INFORMATION
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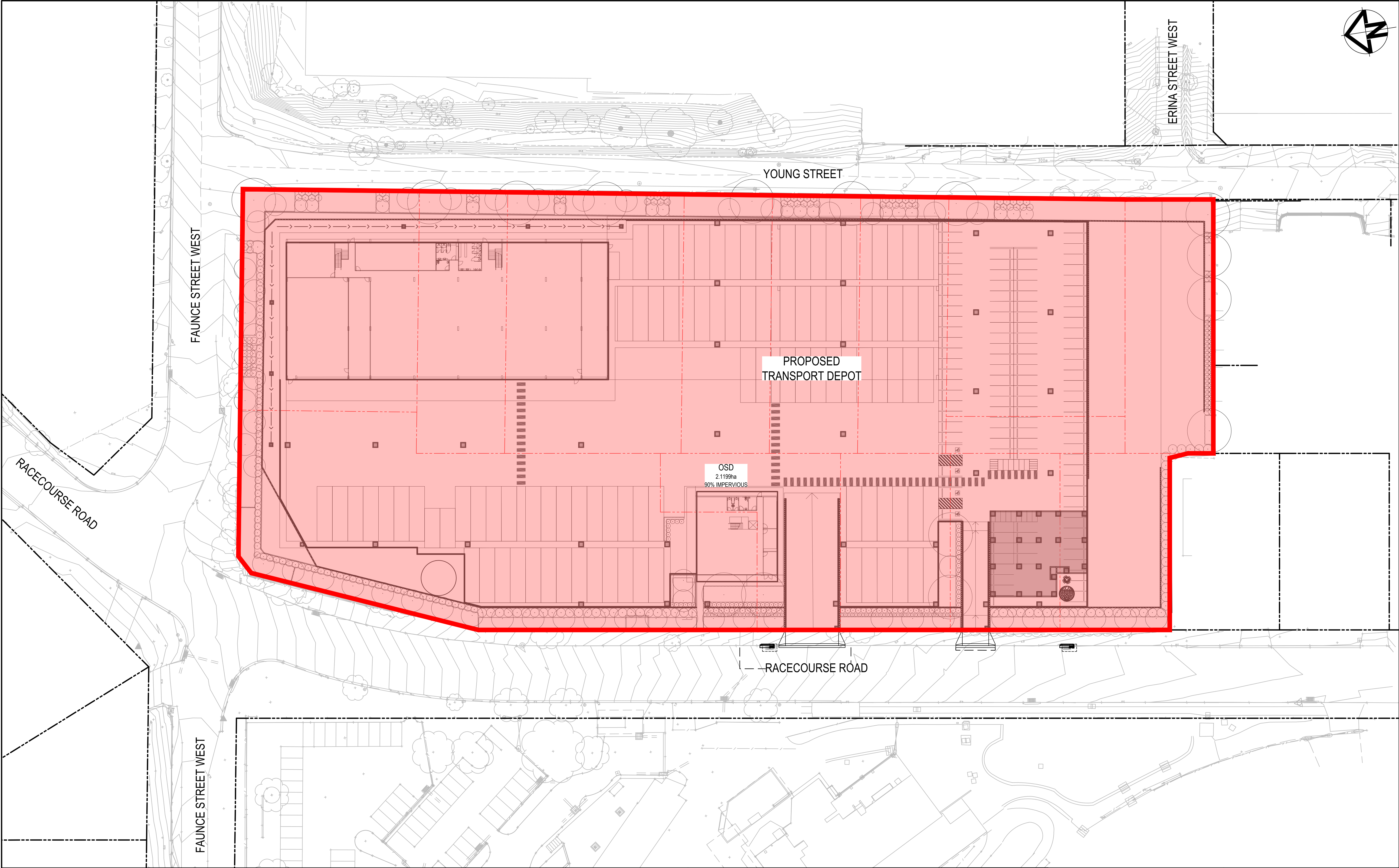
Project - Drawing No.
22-1063-DAC027

A1

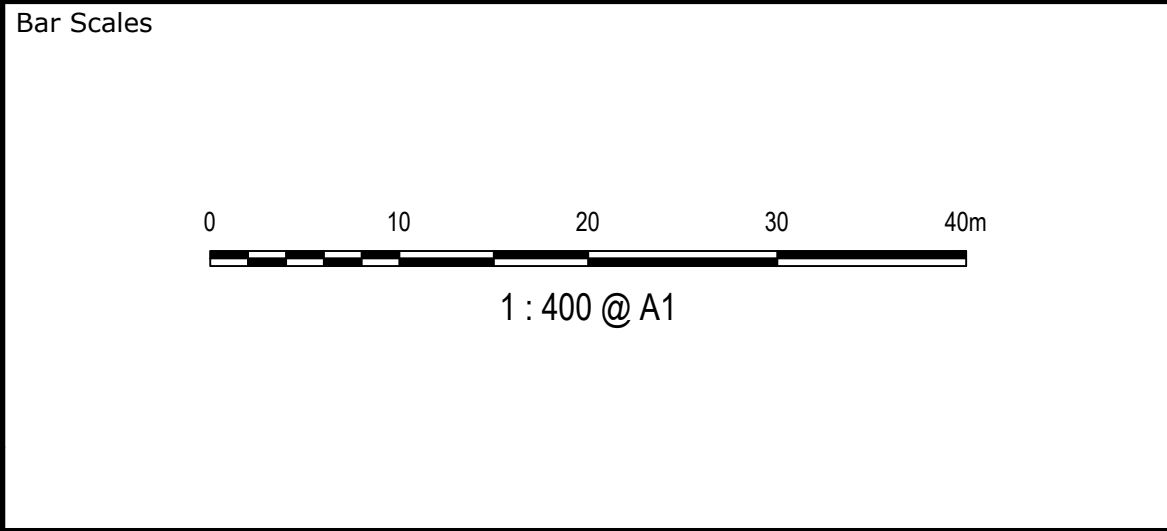
Issue
A



		<div>Bar Scales</div> <div><div><div>010203040m</div><div>1 : 400 @ A1</div></div></div>	<div>THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L</div>	<div>Client</div> <div>WALUYA PTY LTD</div>	<div>Scales</div> <div>1:400</div>	<div>Drawn</div> <div>CK</div>	<div>Project</div> <div>TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD</div>	<div>Civil Engineers and Project Managers</div> <div><div>at&l</div><div>Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405</div></div>			
					<div>Grid</div> <div>MGA56</div>	<div>Designed</div> <div>CK</div>					
					<div>Height Datum</div> <div>AHD</div>	<div>Checked</div> <div>GJ</div>			<div>Approved</div> <div>AT</div>		
									<div>Title</div> <div>PAVEMENT PLAN</div>		
A	ISSUE FOR INFORMATION				15-12-22				<div>Status</div> <div>FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION</div>	<div>A1</div>	
Issue	Description				Date				<div>Project - Drawing No.</div> <div>22-1063-DAC031</div>	<div>Issue</div> <div>A</div>	



A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date



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OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
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PERMISSION OF AT&L

Client

WALUYA PTY LTD

Scales	1:400	Drawn	CK
		Designed	CK
Grid	MGA56	Checked	GJ
Height Datum	AHD	Approved	AT

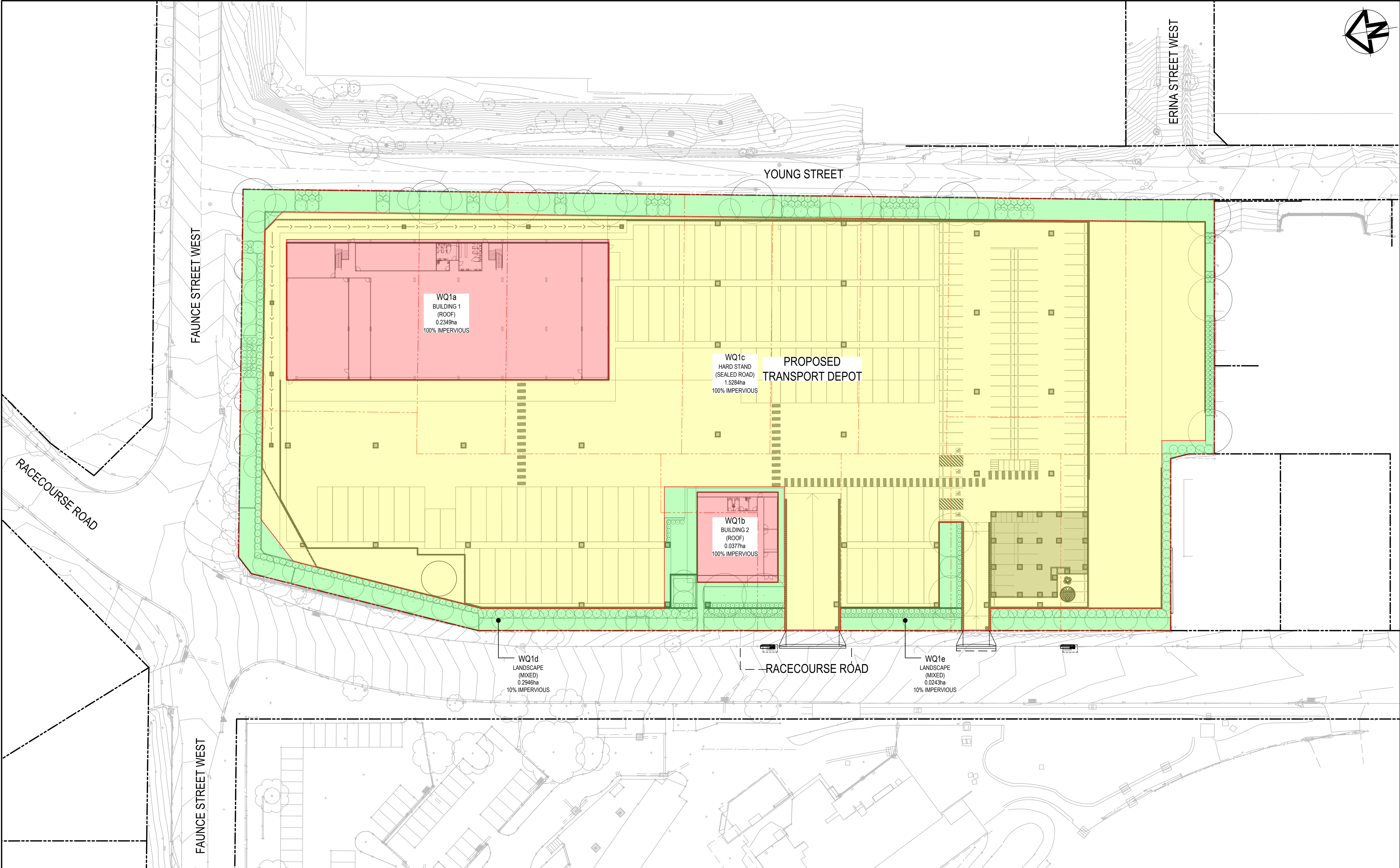
Project	TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD
Title	STORMWATER DRAINAGE OSD CATCHMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

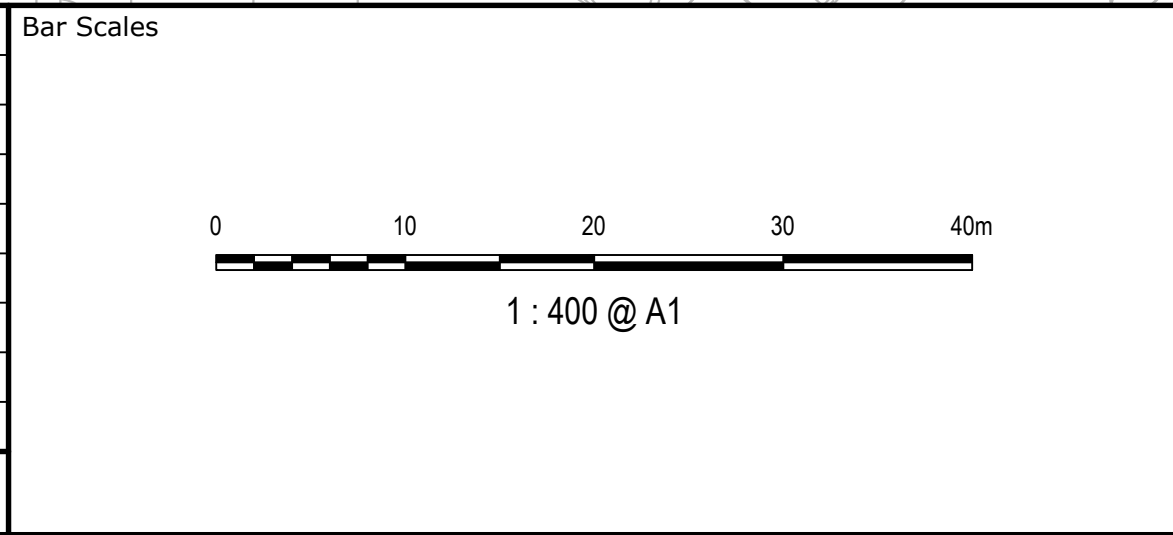
Status
FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
22-1063-DAC051

Issue
A



A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date



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THAT ORIGINALLY INTENDED
WITHOUT THE WRITTEN
PERMISSION OF AT&L

Client

WALUYA PTY LTD

Scales	1:400	Drawn	CK
		Designed	CK
	Grid MGA56	Checked	GJ
	Height Datum AHD	Approved	AT

Project	TRANSPORT DEPOT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD
	STORMWATER DRAINAGE MUSIC CATCHMENT PLAN

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405		
at&l		
Status	FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	22-1063-DAC052	Issue A

NOTE
REFER TO CIVIL REPORT BY AT&L FOR DETAILS.

OSD DESIGN SUMMARY

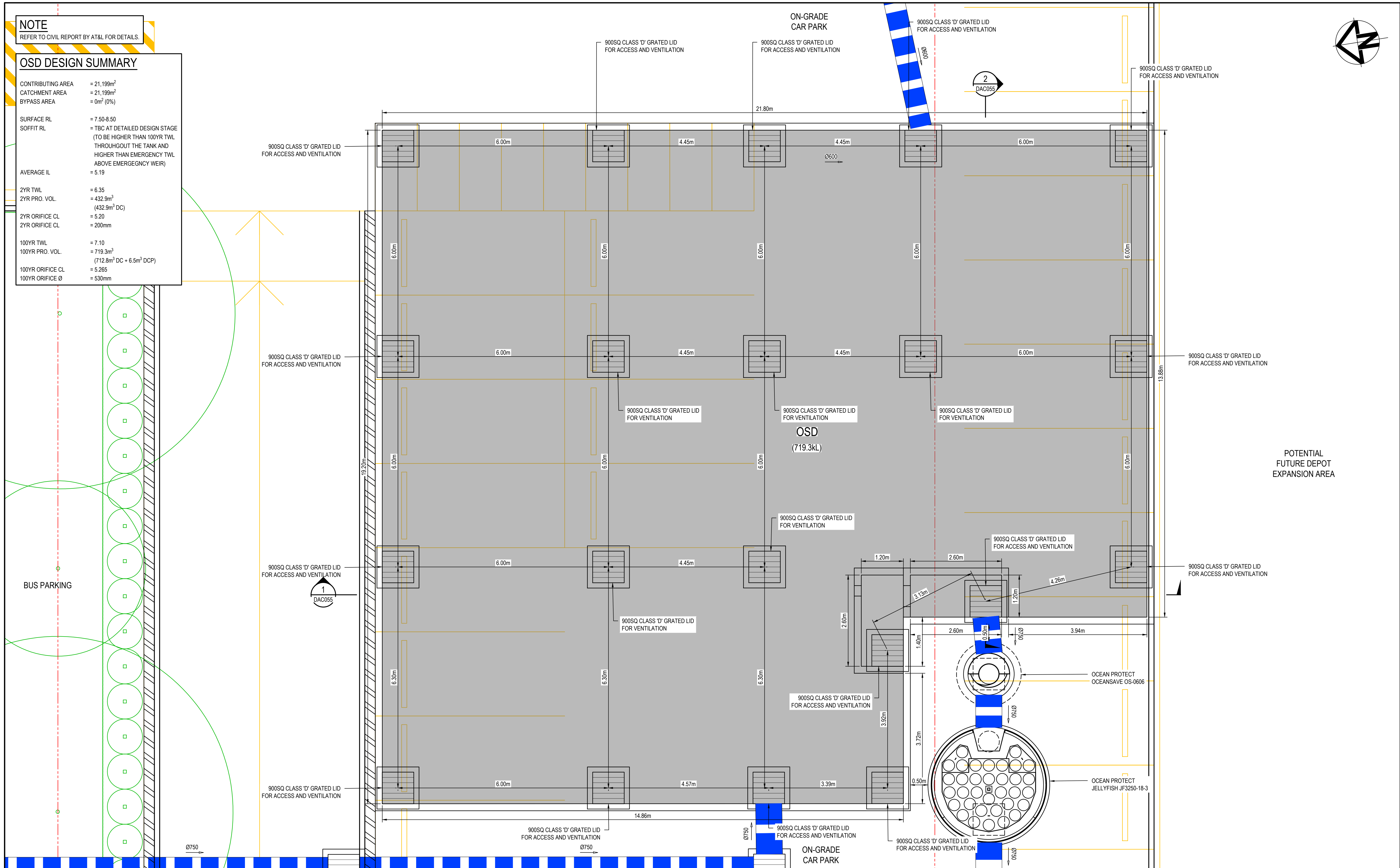
CONTRIBUTING AREA = 21,199m²
CATCHMENT AREA = 21,199m²
BYPASS AREA = 0m² (0%)

SURFACE RL = 7.50-8.50
SOFFIT RL = TBC AT DETAILED DESIGN STAGE
(TO BE HIGHER THAN 100YR TWL
THROUGHOUT THE TANK AND
HIGHER THAN EMERGENCY TWL
ABOVE EMERGENCY WEIR)

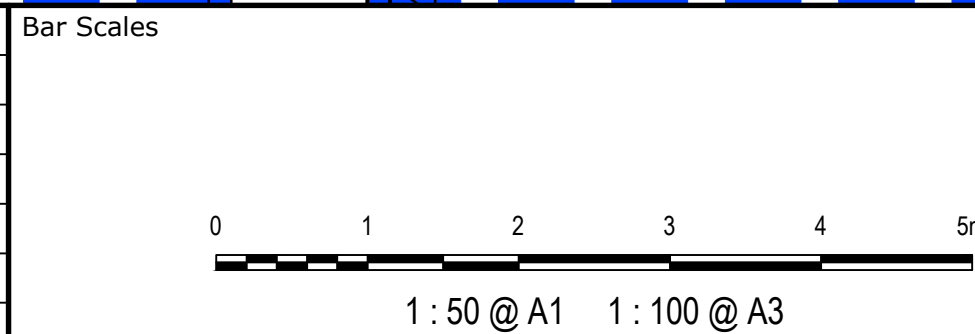
AVERAGE IL = 5.19

2YR TWL = 6.35
2YR PRO. VOL. = 432.9m³
(432.9m³ DC)
2YR ORIFICE CL = 5.20
2YR ORIFICE CL = 200mm

100YR TWL = 7.10
100YR PRO. VOL. = 719.3m³
(712.8m³ DC + 6.5m³ DCP)
100YR ORIFICE CL = 5.265
100YR ORIFICE Ø = 530mm



A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date



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WITHOUT THE WRITTEN
PERMISSION OF AT&L


Client

WALUYA PTY LTD

Scales	1:50	Drawn	CK
		Designed	CK
Grid	MGA56	Checked	GJ
Height Datum	AHD	Approved	AT

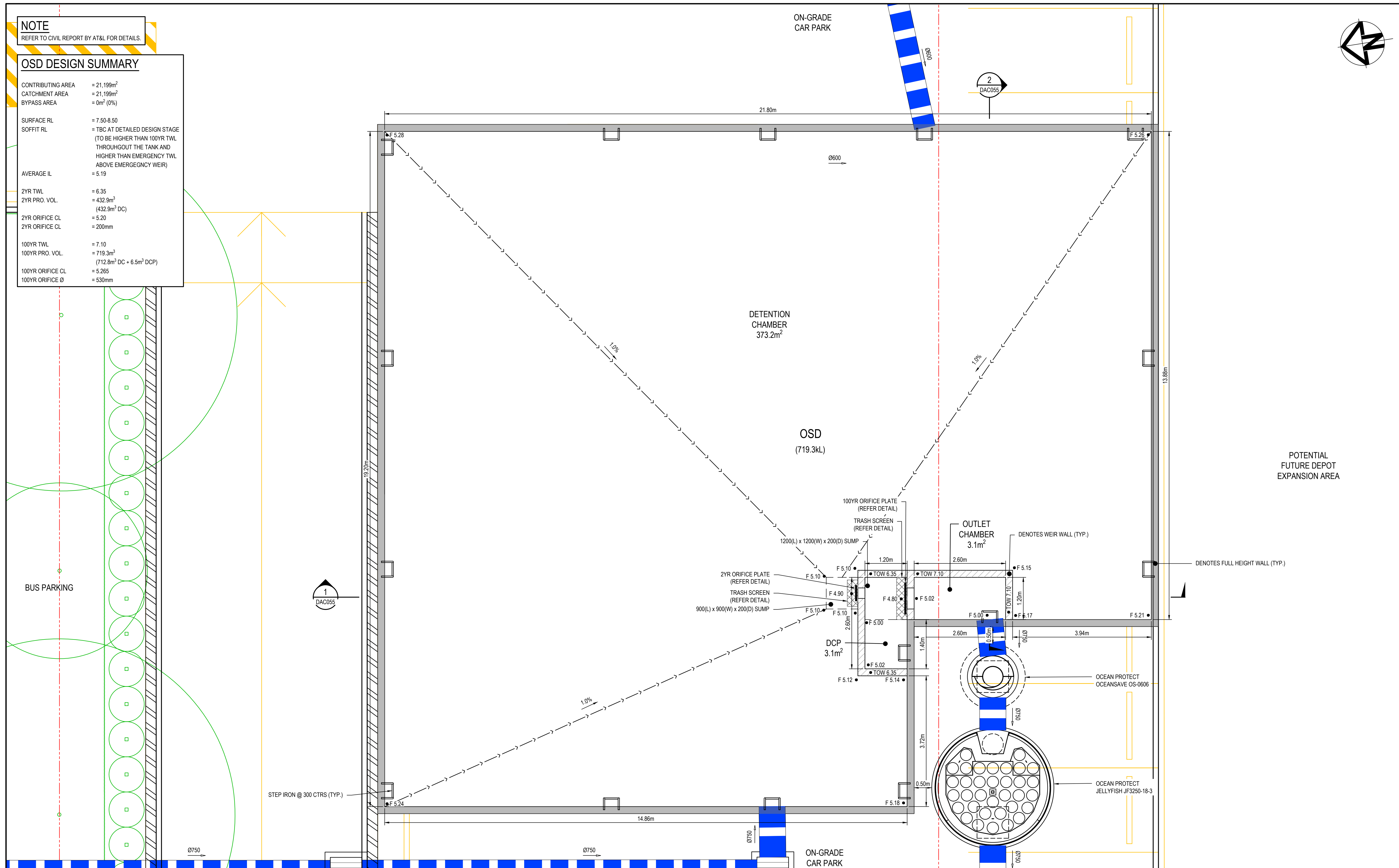
Project
TRANSPORT DEPORT
7A-11 RACECOURSE RD
5-9 FAUNCE ST & YOUNG ST
WEST GOSFORD

Title
STORMWATER DRAINAGE
OSD
ROOF PLAN

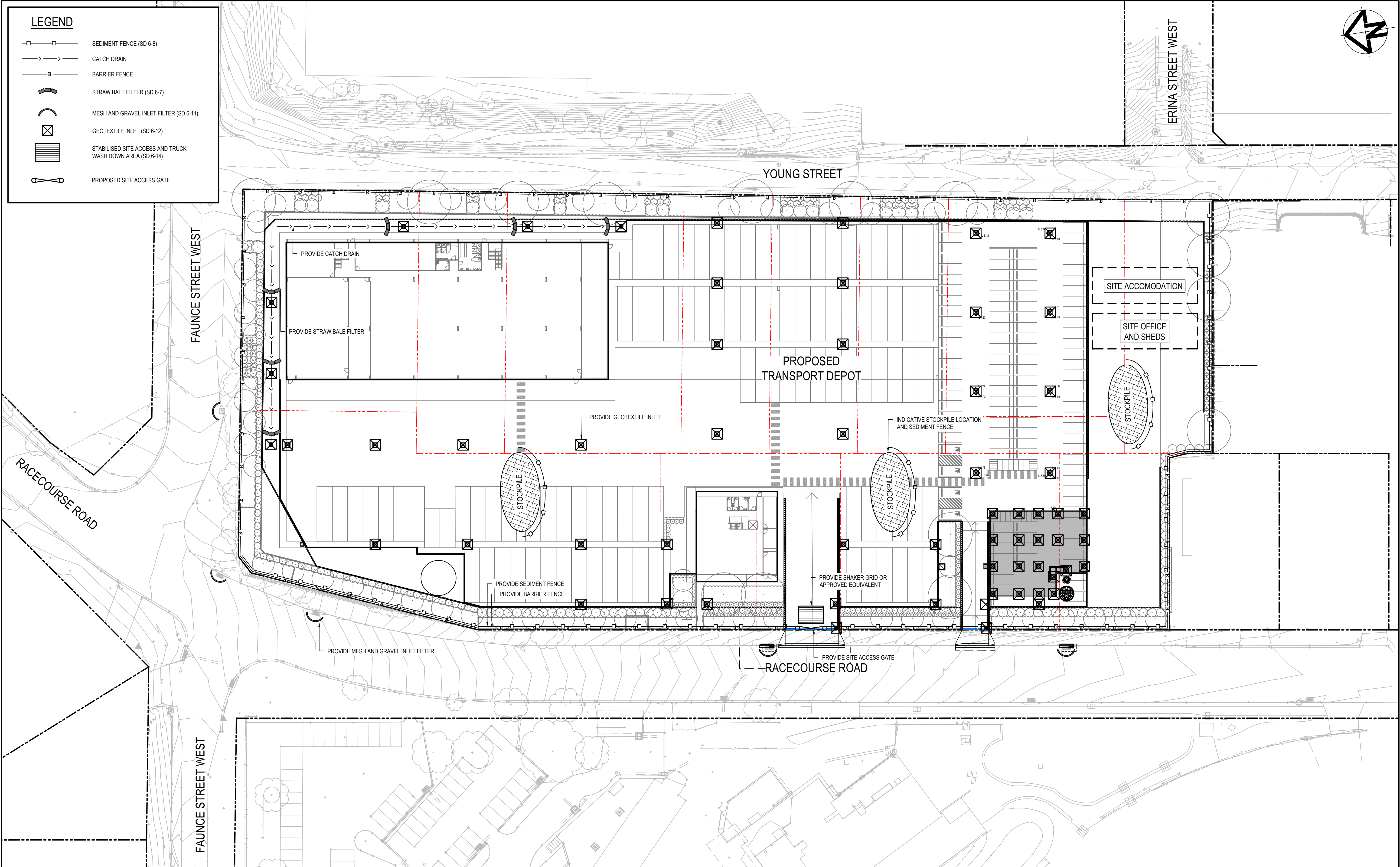
Civil Engineers and Project Managers			Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405		
Status			FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION		A1
Project - Drawing No.					
22-1063-DAC053			Issue		A

REFER TO CIVIL REPORT BY AT&L FOR DETAILS.

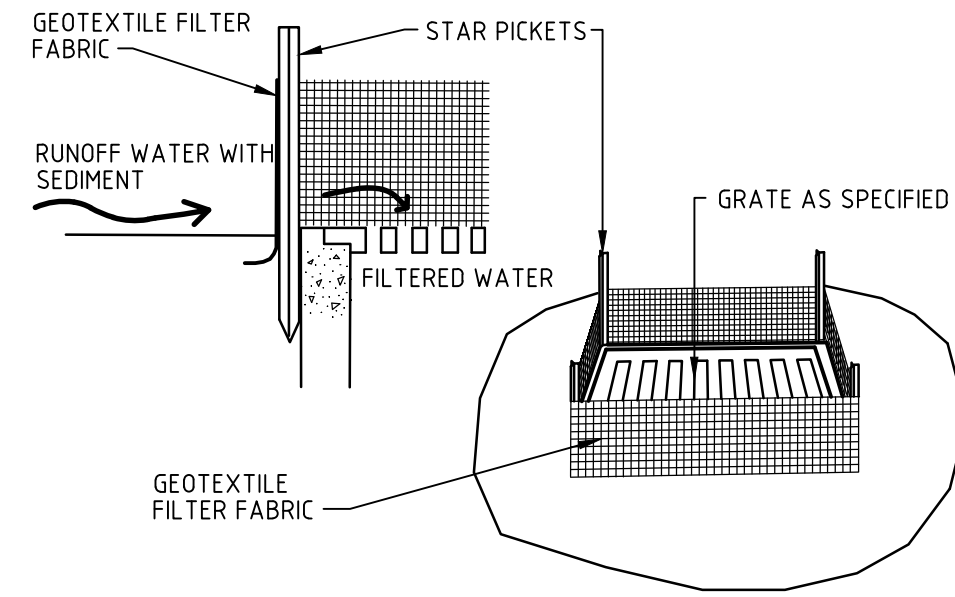
CONTRIBUTING AREA	= 21,199m ²
CATCHMENT AREA	= 21,199m ²
BYPASS AREA	= 0m ² (0%)
SURFACE RL	= 7.50-8.50
SOFFIT RL	= TBC AT DETAILED DESIGN STAGE (TO BE HIGHER THAN 100YR TWL THROUGHOUT THE TANK AND HIGHER THAN EMERGENCY TWL ABOVE EMERGENCY WEIR)
AVERAGE IL	= 5.19
2YR TWL	= 6.35
2YR PRO. VOL.	= 432.9m ³ (432.9m ³ DC)
2YR ORIFICE CL	= 5.20
2YR ORIFICE CL	= 200mm
100YR TWL	= 7.10
100YR PRO. VOL.	= 719.3m ³ (712.8m ³ DC + 6.5m ³ DCP)
100YR ORIFICE CL	= 5.265
100YR ORIFICE Ø	= 530mm



			<p>Bar Scales</p> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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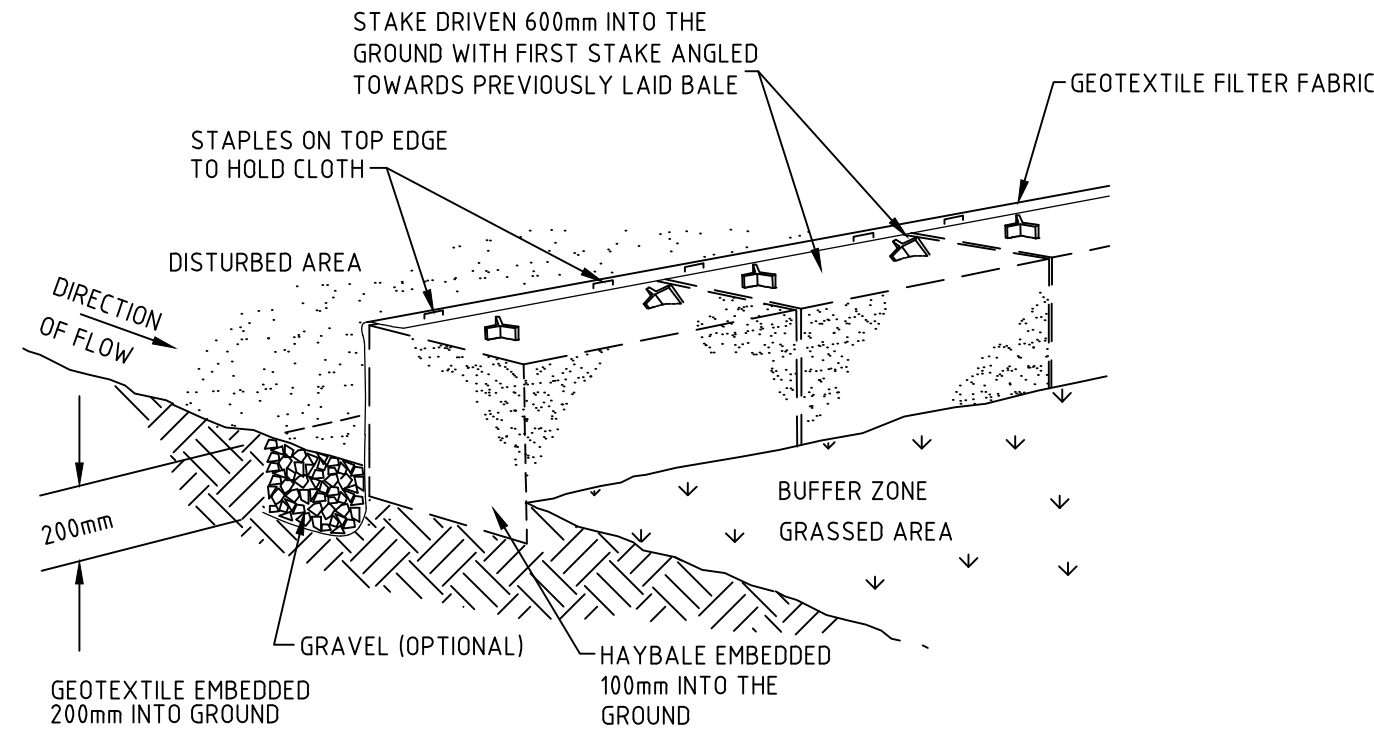


		Bar Scales		THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Client WALUYA PTY LTD	Scales 1:400		Drawn CK	Project TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD	Civil Engineers and Project Managers at&l Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405										
						Grid MGA56		Designed CK		Title EROSION AND SEDIMENT CONTROL PLAN	Status FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 22-1063-DAC071	Issue A								
		1 : 400 @ A1				Height Datum AHD		Checked GJ												
A		ISSUE FOR INFORMATION						Approved AT												
Issue	Description		Date																	
100mm on Original																				

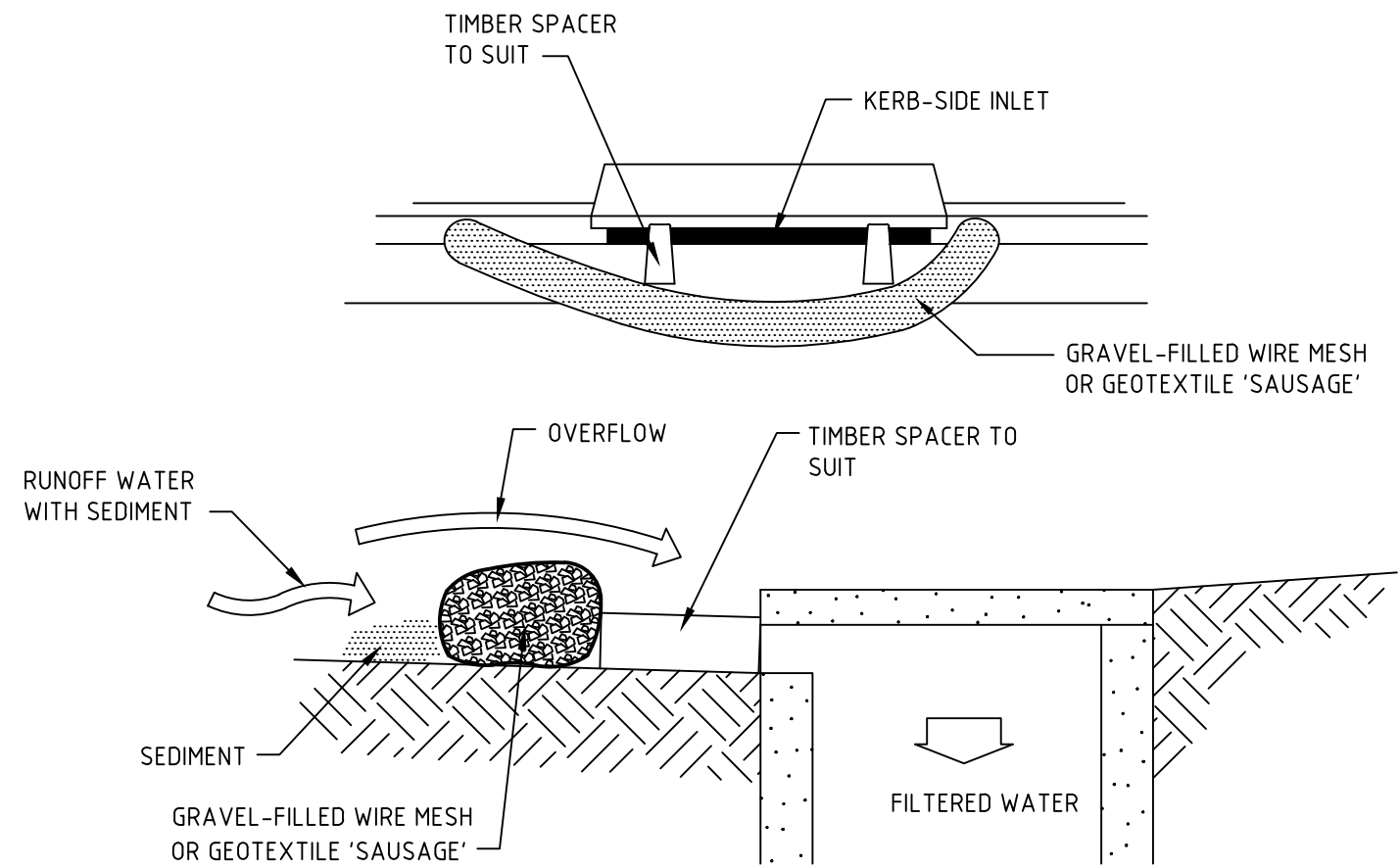


GEOTEXTILE FILTER PIT SURROUND

NTS

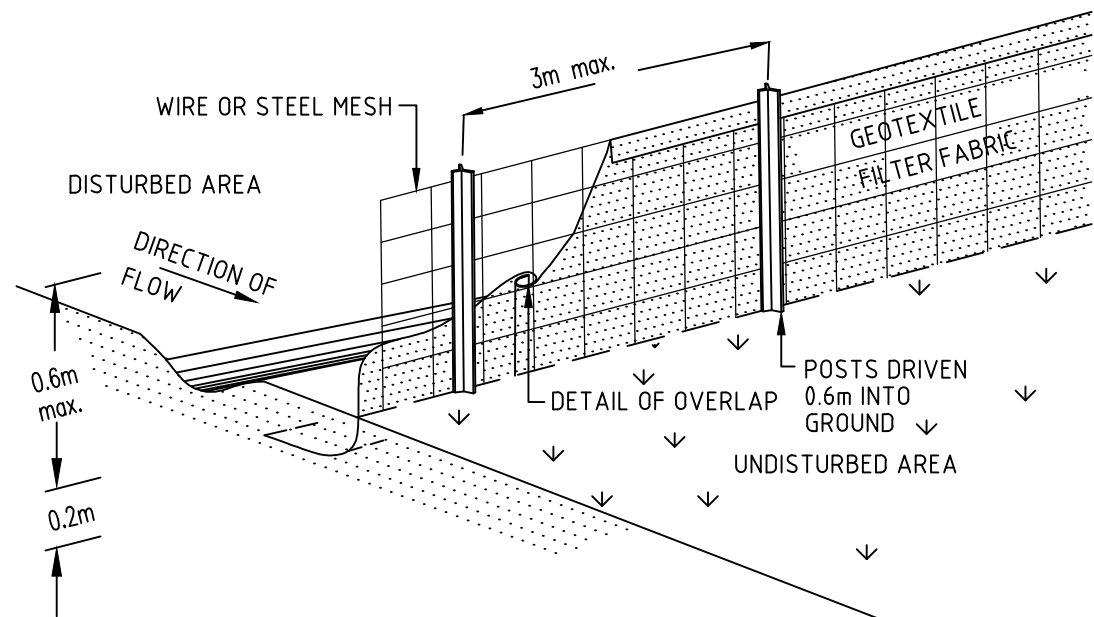


HAYBALE AND GEOTEXTILE SEDIMENT FILTER



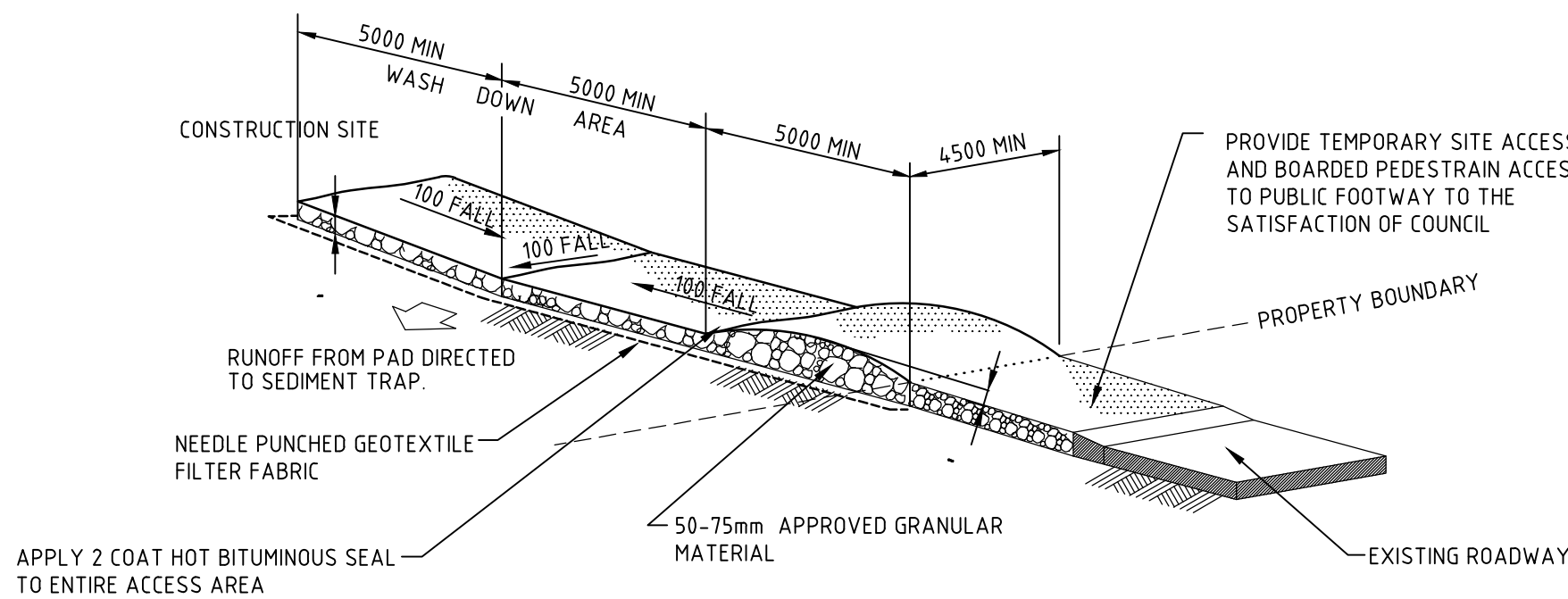
MESH AND GRAVEL INLET FILTER

NTS



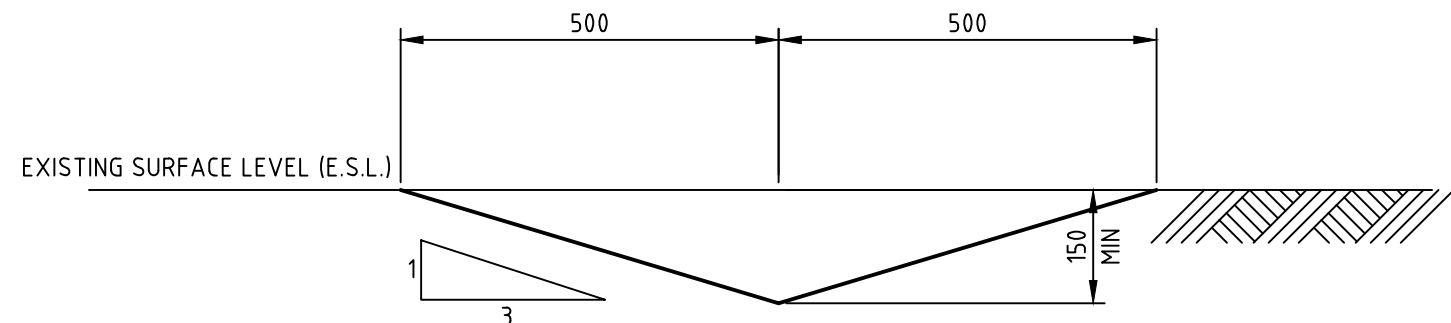
SEDIMENT FENCE

NTS



STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

NTS



TEMPORARY CATCH DRAIN

(MIN FALL 1%)
SCALE 1:10

A	ISSUE FOR INFORMATION	15-12-22
Issue	Description	Date


Bar Scales
1:10 @ A1 1:20 @ A3

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Client
WALUYA PTY LTD

Scales	AS SHOWN	Drawn	CK
		Designed	CK
Grid	MGA56	Checked	GJ
Height Datum	AHD	Approved	AT

Project	TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD
Title	EROSION AND SEDIMENT CONTROL DETAILS

Civil Engineers and Project Managers		Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405
		
Status	FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. 22-1063-DAC075		Issue A