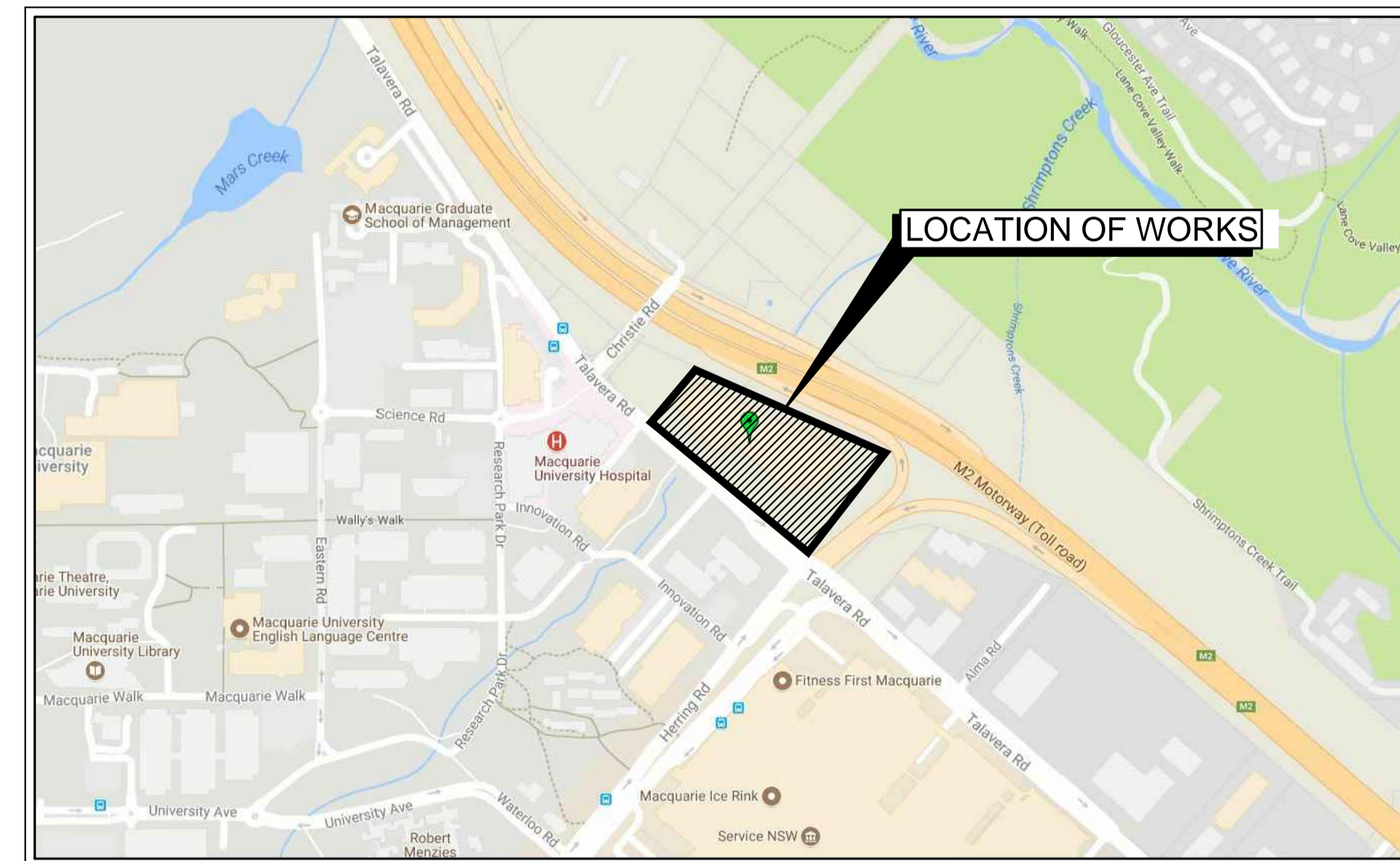


118 TALAVERA ROAD

MACQUARIE PARK - STORMWATER UPGRADE

CIVIL WORKS PACKAGE

DRAWING LIST	
DWG No.	DRAWING TITLE
DAC101	COVER SHEET AND LOCALITY PLAN
DAC102	GENERAL NOTES AND LEGENDS
DAC103	GENERAL ARRANGEMENT PLAN
DAC105	TYPICAL SECTIONS SHEET 1
DAC106	TYPICAL SECTIONS SHEET 2
DAC110	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
DAC111	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
DAC120	STORMWATER DETAILS SHEET 1
DAC121	STORMWATER DETAILS SHEET 2
DAC122	STORMWATER DETAILS SHEET 3
DAC130	STORMWATER LONGSECTION SHEET 1
DAC131	STORMWATER LONGSECTION SHEET 2
DAC132	STORMWATER CALCULATION SHEET
DAC140	STORMWATER CATCHMENT PLAN SHEET 1
DAC141	STORMWATER CATCHMENT PLAN SHEET 2
DAC145	STORMWATER LONGSECTION INTERNAL



LOCALITY PLAN
NTS

Issue	Description	Date
H	ISSUED FOR APPROVAL	11-02-20
G	ISSUED FOR APPROVAL	07-20-20
F	ISSUED FOR APPROVAL	31-01-20
E	ISSUED FOR APPROVAL	07-11-19
D	ISSUED FOR APPROVAL	30-09-19
C	ISSUED FOR COMMENT	16-09-19
B	ISSUED FOR COMMENT	03-09-19
A	ISSUED FOR COMMENT	30-08-19

Bar Scales	

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Scale	N.T.S.	Drawn	ASD
		Designed	GJ
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	

Project	118 TALAVERA ROAD MACQUARIE PARK
Title	COVER SHEET AND LOCALITY PLAN

Civil Engineers and Project Managers

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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	16-428	Issue
Project No.	16-428	H

SITWORKS LEGEND

EXISTING

- EXISTING BOUNDARY
- SURFACE LEVEL
- CONTOUR
- FENCE
- EXISTING TREE
- EXISTING GAS (DBYD)
- EXISTING PRIMUS (DBYD)
- EXISTING AARNET (DBYD)
- EXISTING NEXTGEN (DBYD)
- EXISTING LUMINET (DBYD)
- EXISTING UECOMM (DBYD)
- EXISTING SEWER (DBYD)
- EXISTING TELSTRA (DBYD)
- EXISTING VERIZON (DBYD)
- EXISTING STORMWATER (ISURVEY)

PROPOSED

- PROPOSED BOUNDARY
- PROPOSED SURFACE LEVEL
- KERB AND GUTTER (REFER TO CoR STD DWG CIV 1.1.1) (NOT PART OF THIS APPROVAL)
- KERB ONLY (REFER TO CoR STD DWG CIV 1.1.1) (NOT PART OF THIS APPROVAL)
- DISH DRAIN (REFER TO CoR STD DWG CIV 1.1.1) (NOT PART OF THIS APPROVAL)
- VEHICULAR CROSSING (REFER TO CoR STD DWG CIV 1.1.1) (NOT PART OF THIS APPROVAL)
- PRAM RAMP (REFER TO CoR STD DWG CIV 2.2.2) (NOT PART OF THIS APPROVAL)
- KERB INLET PIT (1.8m LINTEL) (REFER TO CoR STD DWG SWD 1.1.1) (NOT PART OF THIS APPROVAL)
- JUNCTION PIT (INFILL LID) (REFER TO CoR STD DWG SWD 1.8.1) (NOT PART OF THIS APPROVAL)
- STORMWATER PIT WITH GRATE AND LIME (NOT PART OF THIS APPROVAL)
- SURFACE INLET PIT (NOT PART OF THIS APPROVAL)
- PROPOSED 2 x Ø1500 RCP
- UB 2 x Ø1500 RCP (UNDER BORE)
- PROPOSED STORMWATER PITS
- EXISTING TREE TO BE REMOVED

CONTRACTOR SHALL CALL:
DIAL BEFORE
YOU DIG 1100
PRIOR TO COMMENCEMENT OF WORK
TO OBTAIN ALL CURRENT SERVICE
AUTHORITY PLANS



CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 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 AS 1379.
- 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 4.0mm 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
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.
- 8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

STORMWATER DRAINAGE NOTES

- STORMWATER DESIGN CRITERIA:
(A) AVERAGE RECURRENCE INTERVAL:
1:100 YEARS ROOFED AREAS TO SURCHARGE PIT
1:20 YEARS EXTERNAL PAVEMENTS
(B) RAINFALL INTENSITIES:
TIME OF CONCENTRATION 5 MINUTES
1:100 YEARS= 247.4 mm/hr
1:20 YEARS= 194.9 mm/hr
(C) RUNOFF COEFFICIENTS:
ROOF AREAS: C₁₀₀ =1.0
EXTERNAL PAVEMENTS: C₂₀ =1.0
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' AND '4' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. REFER TO DRAWING C063 FOR DETAILS
- PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
- ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- PIPES TO BE INSTALLED TO TYPE HS1 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 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)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
- PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 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.

SITWORKS NOTES

- ORIGIN OF LEVELS-- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 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)
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. 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.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
- AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- 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.
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

- THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY B & P SURVEYS, 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.
- EXISTING SURFACE LEVELS SHOWN ON ALL SECTIONS HAVE BEEN GENERATED FROM SURVEY SPOT HEIGHT LEVELS AND ARE INDICATIVE ONLY. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.
- THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS PREPARED BY B & P CONSULTING SURVEYORS.
- NOTES:**
- TITLE BOUNDARIES SHOWN HEREON HAVE BEEN DETERMINED FROM MINIMUM CONNECTIONS TO SURVEY MARKS PLACED BY OTHERS AND THEN FROM THE MEASUREMENTS BY OTHER. THE VERIFICATION OF WHICH DOES NOT FORM PART OF THIS SURVEY.
 - SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. IF NOT ABLE TO BE SO LOCATED, KNOWN SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITY RECORDS AND HAVE BEEN NOTED ACCORDINGLY ON THIS PLAN. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITIES SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATION OF ALL SERVICES.
- DATE OF SURVEY: 9-11/5/2018

LEGEND

- AWN - DENOTES AWNING
- CEIL - DENOTES CEILING
- CEID - DENOTES RIDGE
- FFL - DENOTES FINISHED FLOOR LEVEL
- BK - DENOTES BACK OF KERB
- IK - DENOTES INVERT OF KERB
- LP - DENOTES LIP OF KERB
- TL - DENOTES TOP OF KERB
- INP - DENOTES INVERT OF PIT

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- ALL WORK SHALL BE GENERALLY CARRIED OUT 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.
- MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- 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

- 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 SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
(B) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
(C) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
(D) 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

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

SEDIMENT CONTROL

- STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- 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.
- 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.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 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 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER 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.

EXISTING UNDERGROUND SERVICES NOTES

- 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.
- CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

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G	ISSUED FOR APPROVAL	11-02-20
F	ISSUED FOR APPROVAL	07-20-20
E	ISSUED FOR APPROVAL	31-01-20
D	ISSUED FOR APPROVAL	30-09-19
C	ISSUED FOR COMMENT	16-09-19
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A	ISSUED FOR COMMENT	30-08-19

Bar Scales

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Grid	MGA
Checked	AT
Height Datum	AHD
Approved	

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

Title

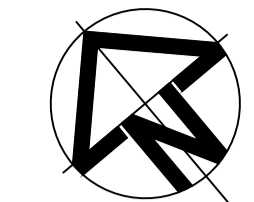
**GENERAL NOTES
AND LEGENDS**

Civil Engineers and Project Managers

at&l

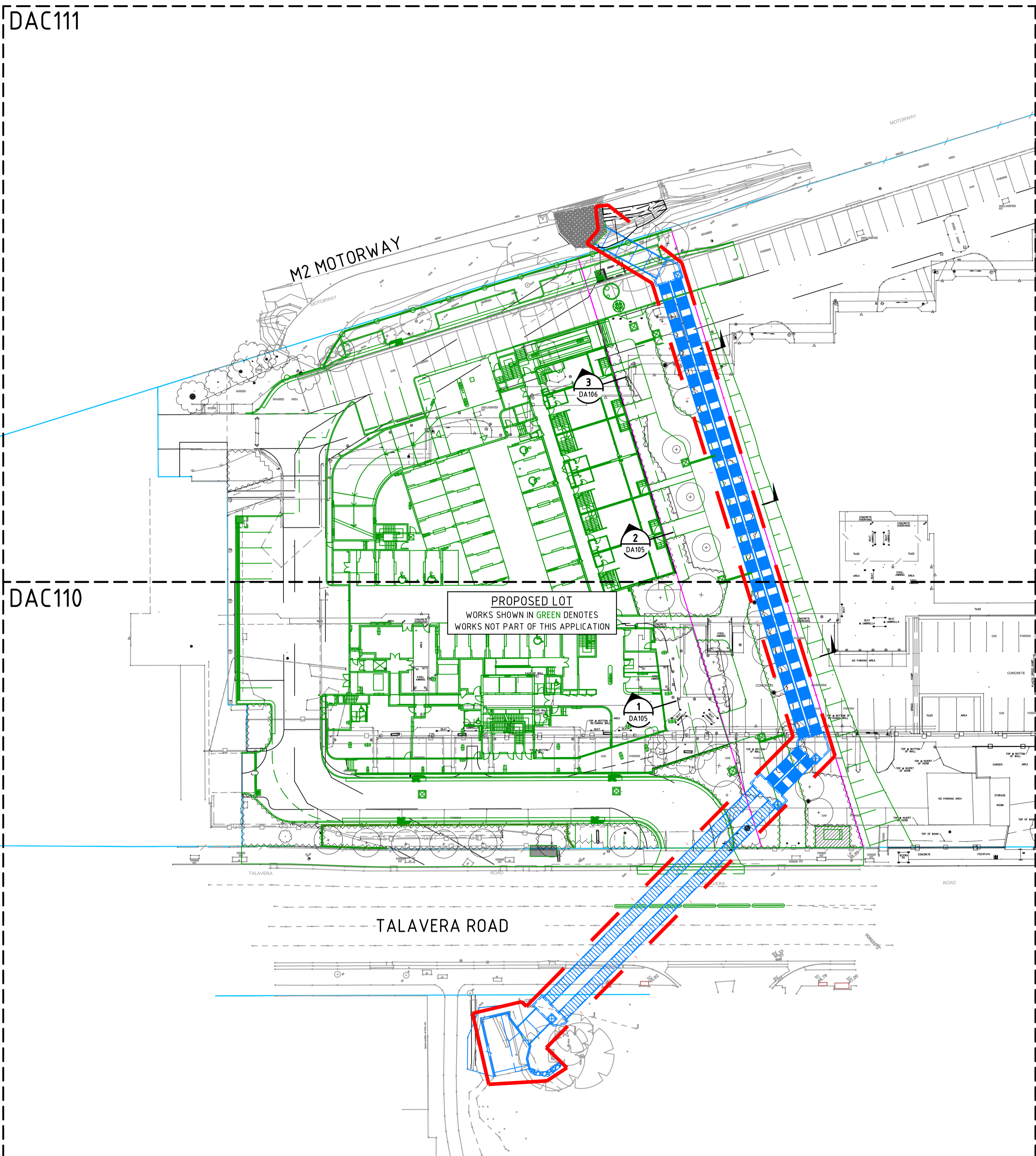
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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	Project No.	Issue
DAC102	16-428	G



LEGEND

EXTENTS OF STORMWATER UPGRADE WORKS



PROPOSED LOT
WORKS SHOWN IN GREEN DENOTES
WORKS NOT PART OF THIS APPLICATION

Issue	Description	Date
H	ISSUED FOR APPROVAL	11-02-20
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Bar Scales

1 : 400 @ A1

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Scale	1 : 500	Drawn	ASD
Grid	MGA	Designed	GJ
Height Datum	AHD	Checked	AT
		Approved	

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

Title

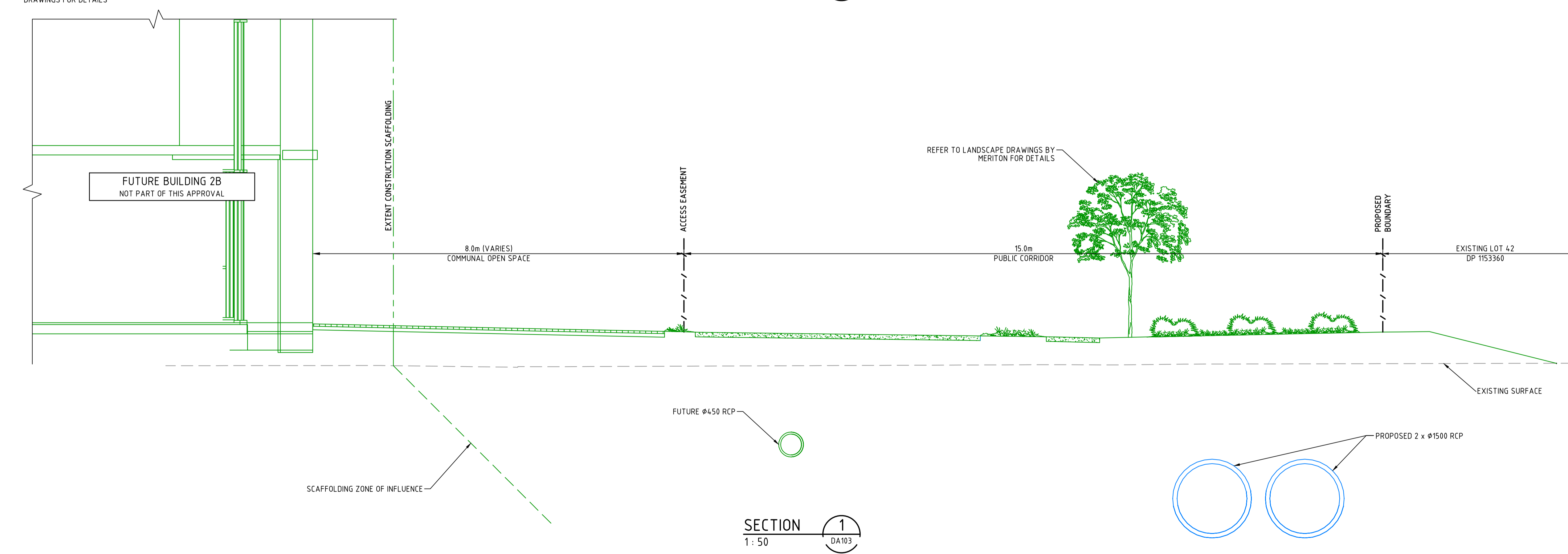
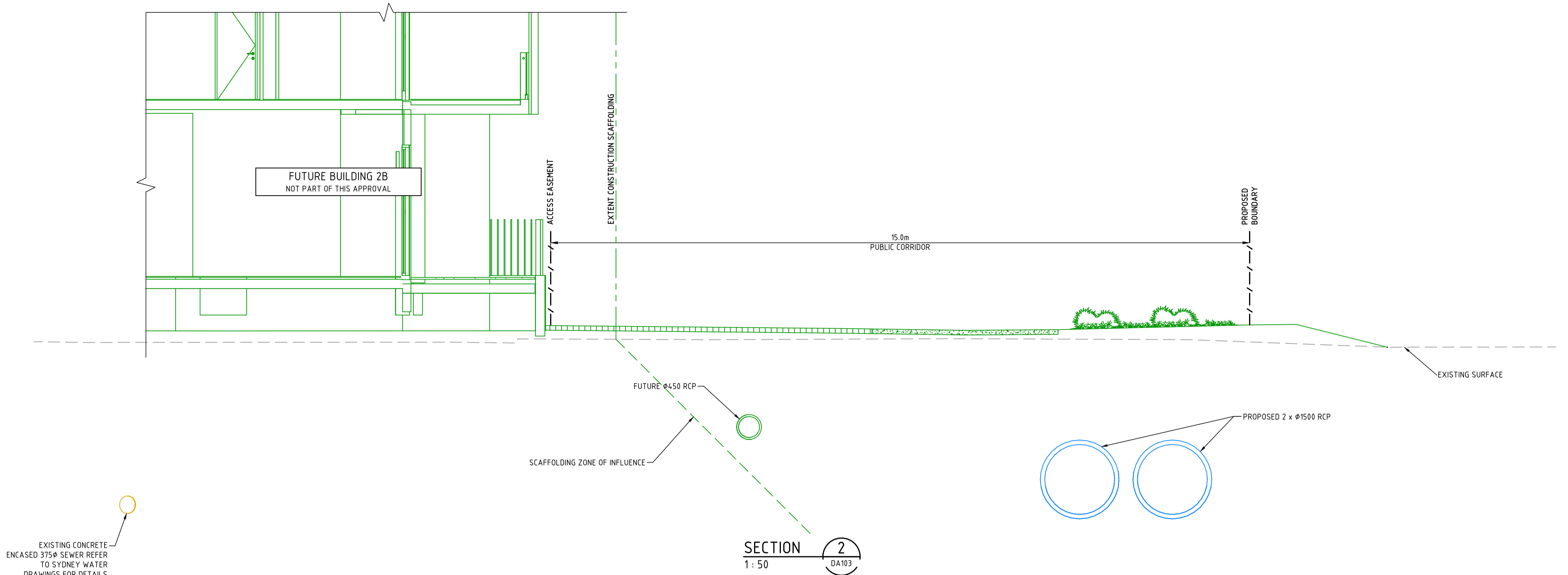
**GENERAL ARRANGEMENT
PLAN**

Civil Engineers and Project Managers

at&l

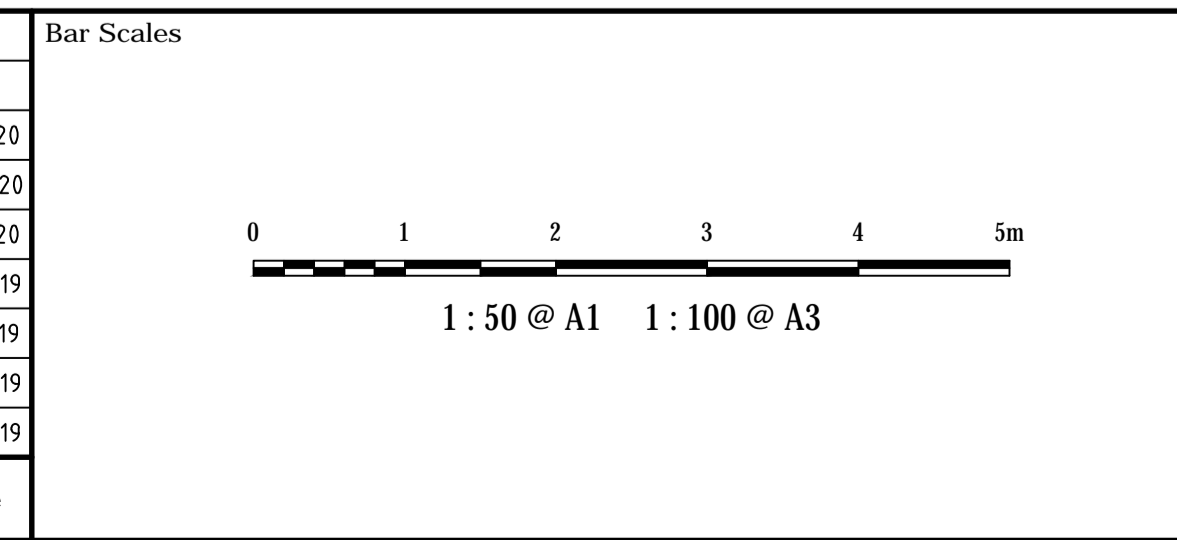
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EXISTING CONCRETE ENCASED 375 ϕ SEWER REFER TO SYDNEY WATER DRAWINGS FOR DETAILS

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Project

**118 TALAVERA ROAD
MACQUARIE PARK**

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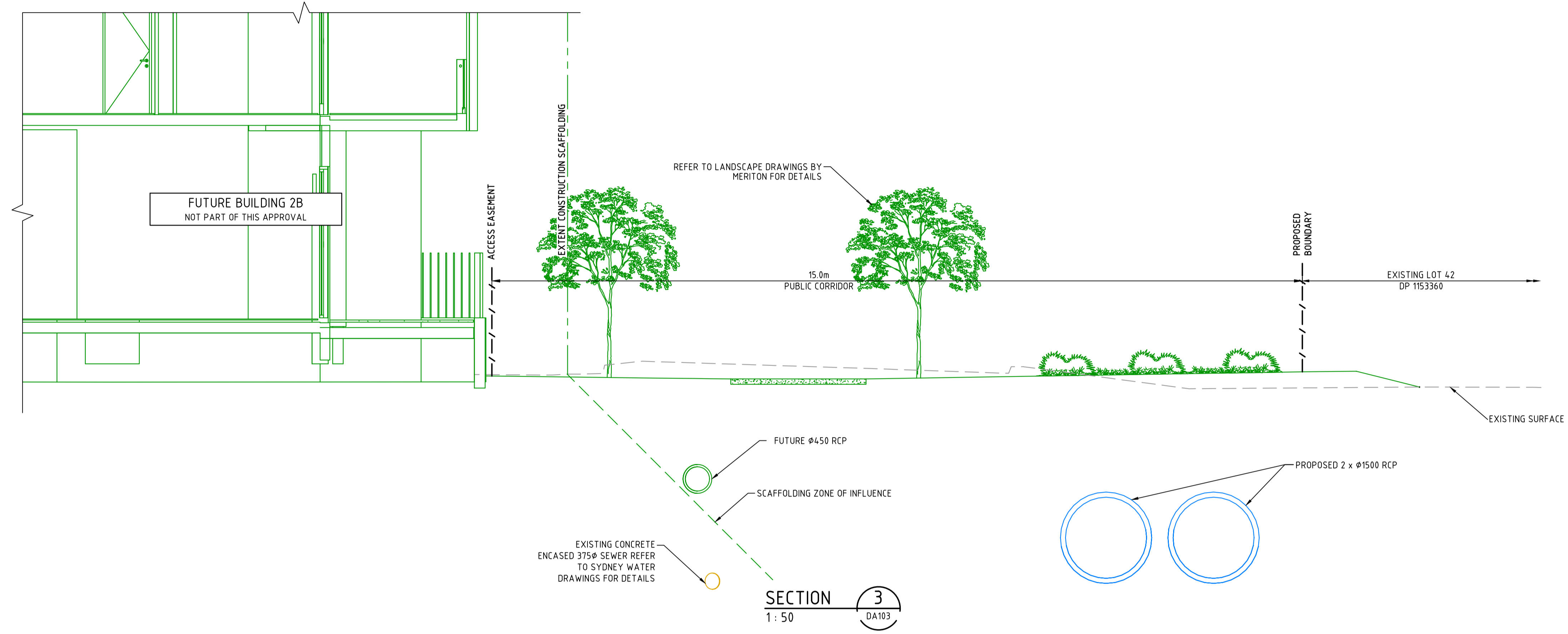
**TYPICAL SECTIONS
SHEET 1**

Civil Engineers and Project Managers

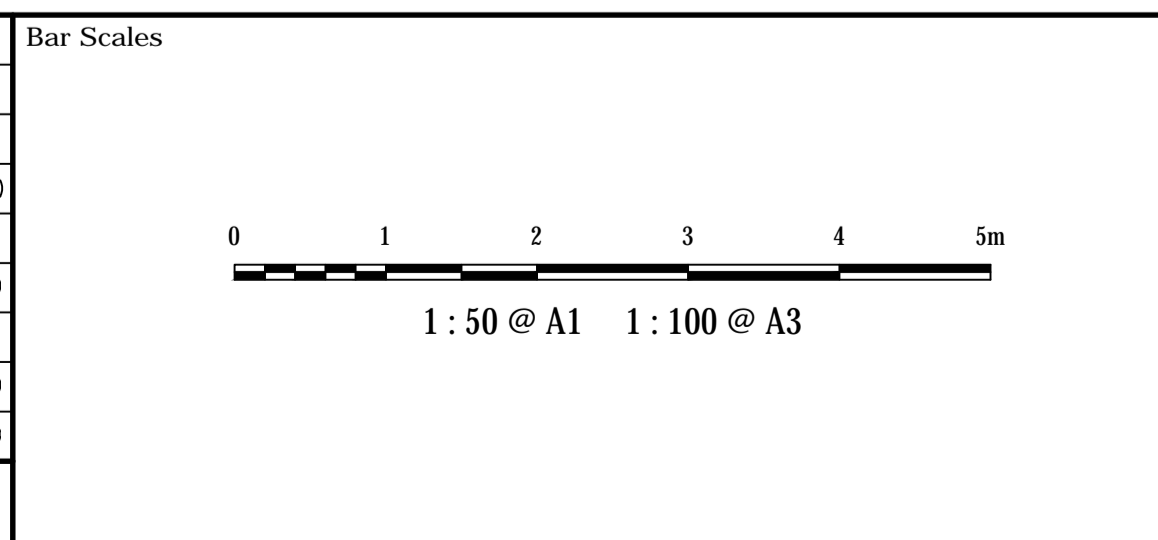
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		G



Issue	Description	Date
G	ISSUED FOR APPROVAL	11-02-20
F	ISSUED FOR APPROVAL	07-20-20
E	ISSUED FOR APPROVAL	31-01-20
D	ISSUED FOR APPROVAL	30-09-19
C	ISSUED FOR COMMENT	16-09-19
B	ISSUED FOR COMMENT	03-09-19
A	ISSUED FOR COMMENT	30-08-19



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Client

KARIMBLA
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Email: info@design.meriton.com.au
Internet: http://www.meriton.com.au

Scales	1:50	Drawn	ASD
		Designed	GJ
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

Title

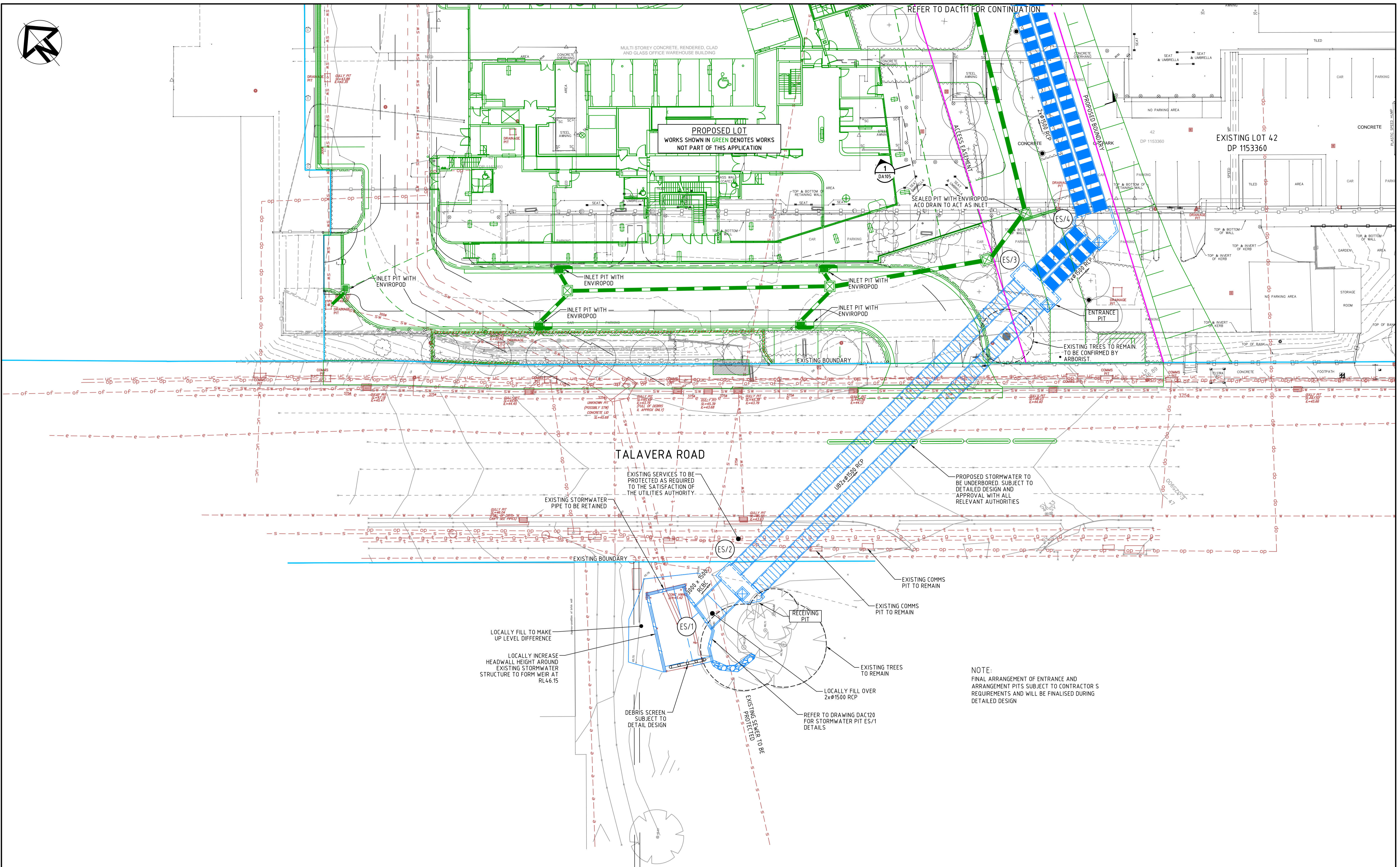
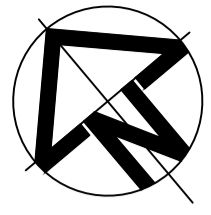
**TYPICAL SECTIONS
SHEET 2**

Civil Engineers and Project Managers

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Level 7, 153 Walker Street
North Sydney NSW 2060
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www.atl.net.au
info@atl.net.au

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	DAC106	Issue
Project No.	16-428	G



Issue	Description	Date
J	ISSUED FOR APPROVAL	11-02-20
I	ISSUED FOR APPROVAL	07-20-20
H	ISSUED FOR APPROVAL	31-01-20
G	ISSUED FOR APPROVAL	07-11-19
F	ISSUED FOR APPROVAL	04-10-19
E	ISSUED FOR APPROVAL	01-10-19
D	ISSUED FOR APPROVAL	30-09-19
C	ISSUED FOR COMMENT	16-09-19
B	ISSUED FOR COMMENT	03-09-19

Bar Scales	
0	5 10 15 20m
1 : 200 @ A1	1 : 400 @ A3

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Internet: http://www.meriton.com.au

Scales	Drawn	Project
1 : 200	ASD	118 TALAVERA ROAD MACQUARIE PARK
Grid MGA	GJ	
Height Datum AHD	AT	

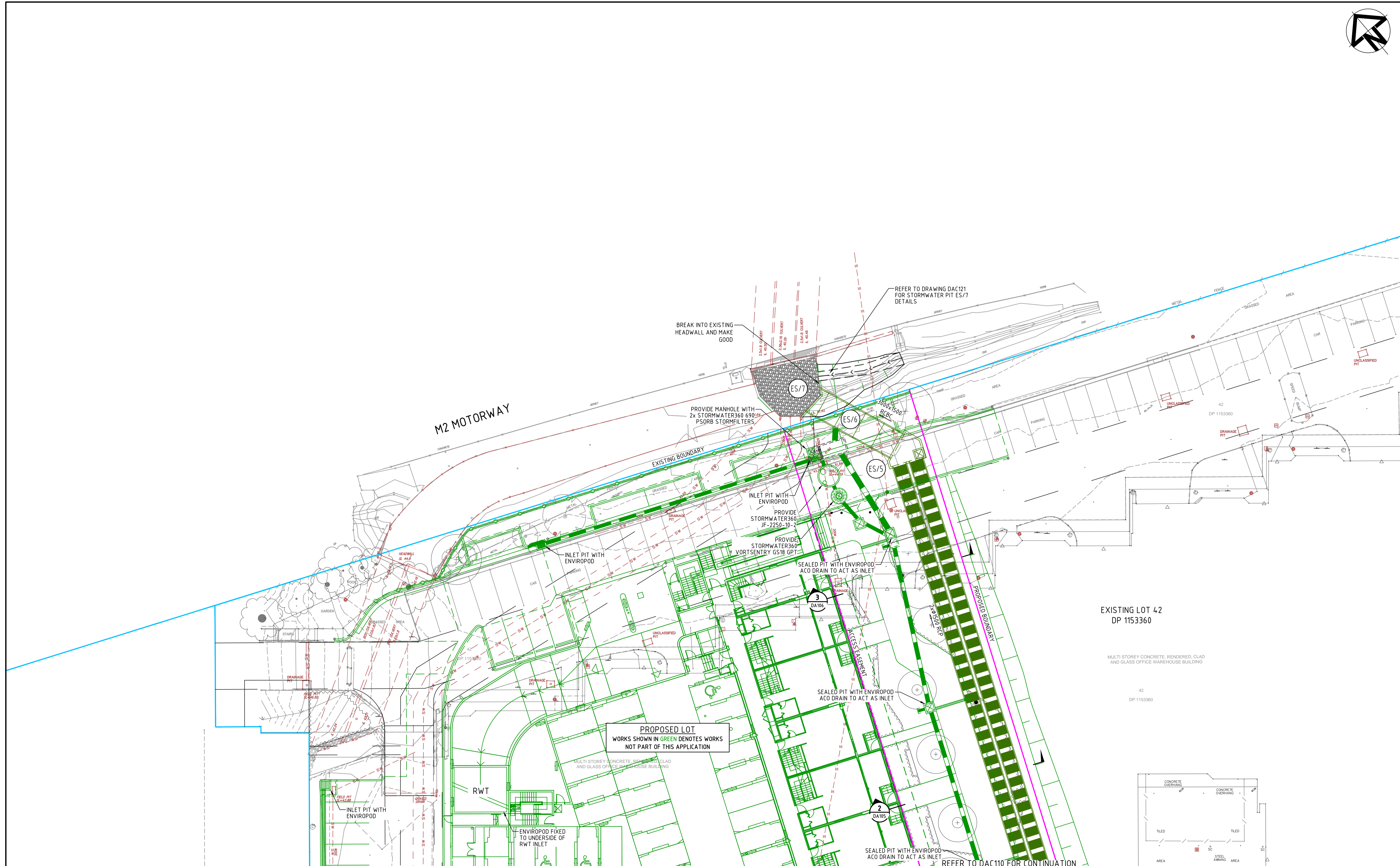
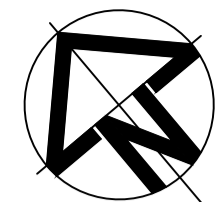
Title	
SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 1	

Civil Engineers and Project Managers

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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	DAC110	Issue
Project No.	16-428	J



Issue	Description	Date
H	ISSUED FOR APPROVAL	11-02-20
G	ISSUED FOR APPROVAL	07-20-20
F	ISSUED FOR APPROVAL	31-01-20
E	ISSUED FOR APPROVAL	07-11-19
D	ISSUED FOR APPROVAL	30-09-19
C	ISSUED FOR COMMENT	16-09-19
B	ISSUED FOR COMMENT	03-09-19
A	ISSUED FOR COMMENT	30-08-19

Bar Scales

0 5 10 15 20m

1 : 200 @ A1 1 : 400 @ A3

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Scale	1 : 200	Drawn	ASD
Grid	MGA	Designed	GJ
Height Datum	AHD	Checked	AT
		Approved	

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

Title

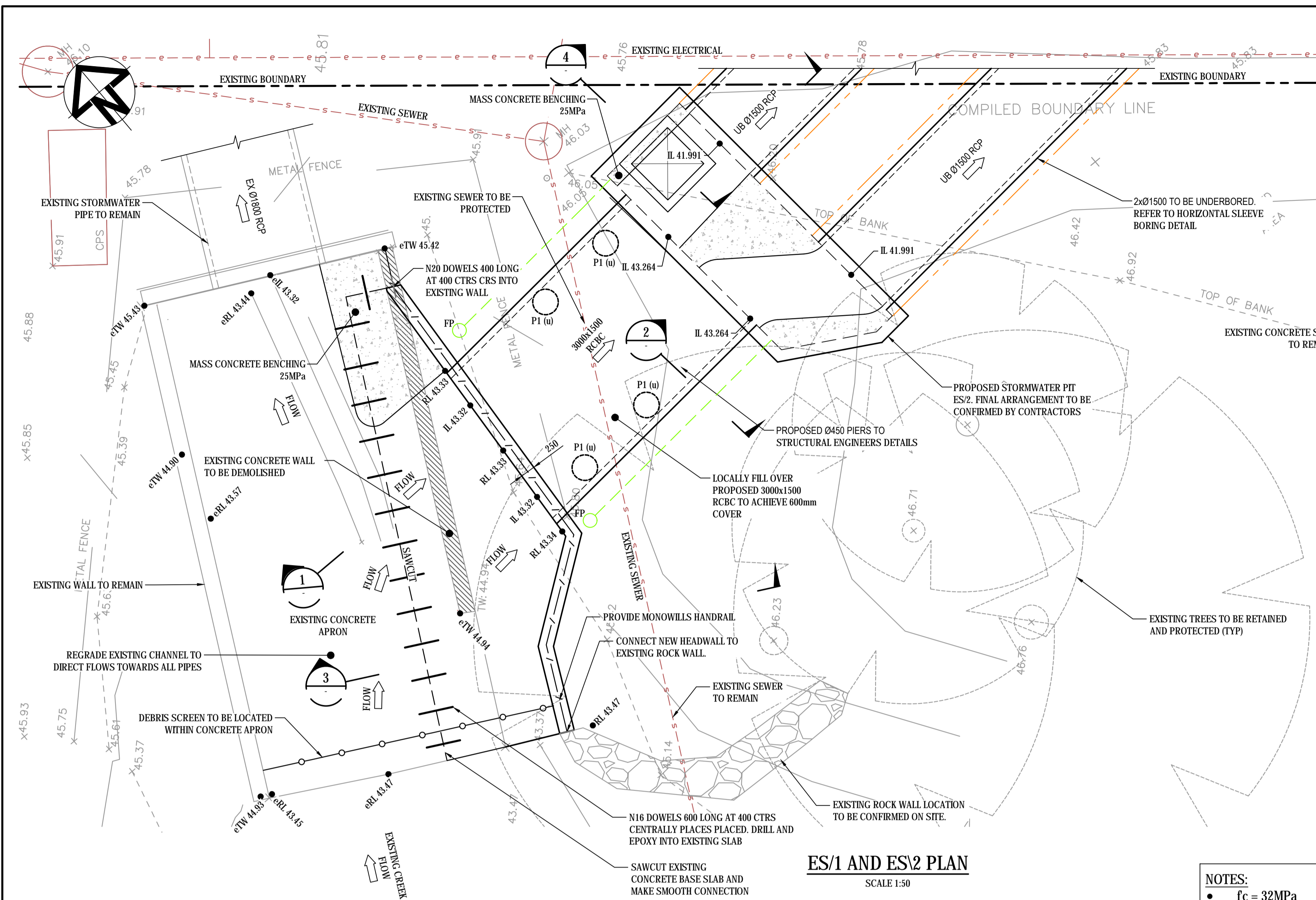
**SITWORKS AND
STORMWATER DRAINAGE
PLAN SHEET 2**

Civil Engineers and Project Managers

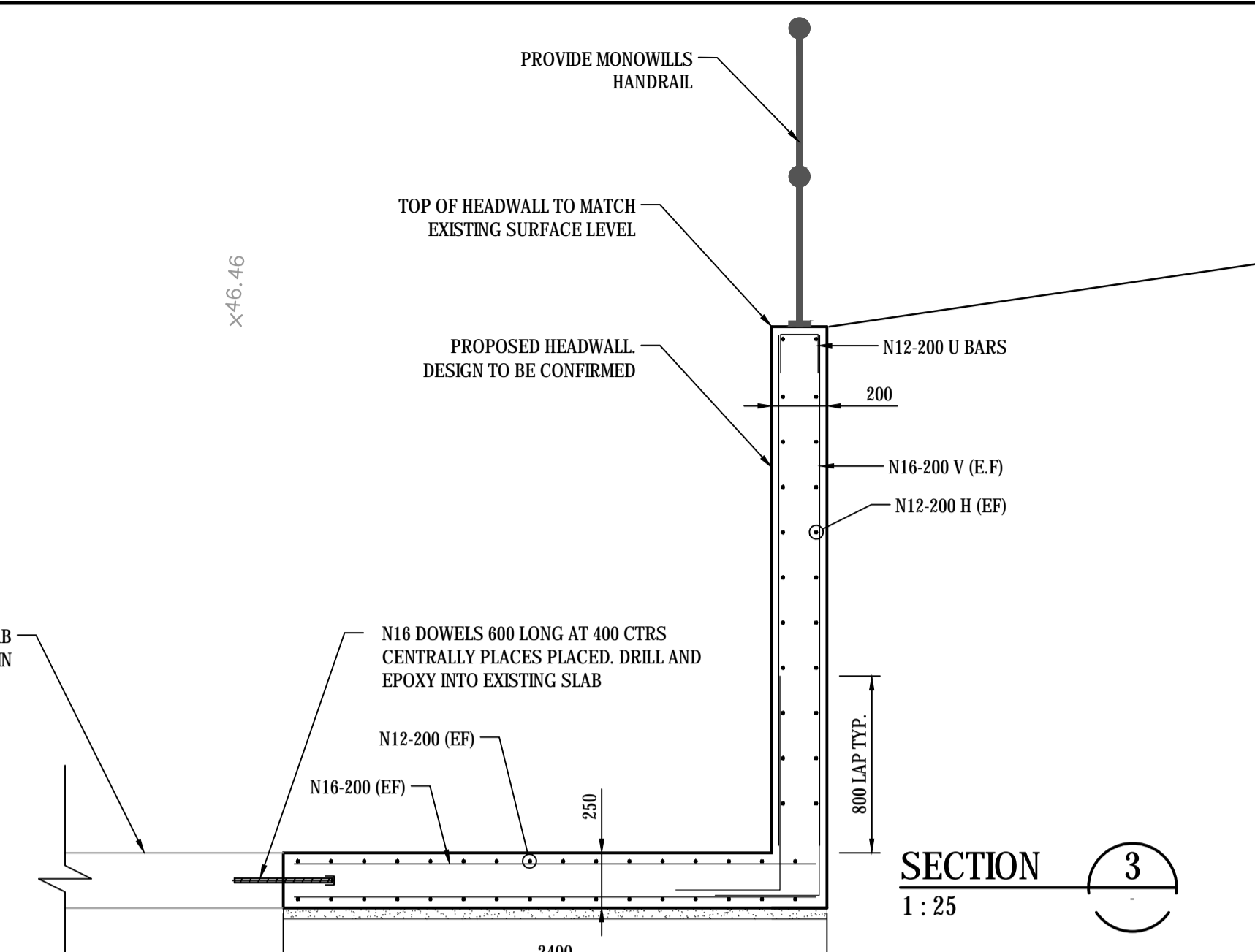
at&l

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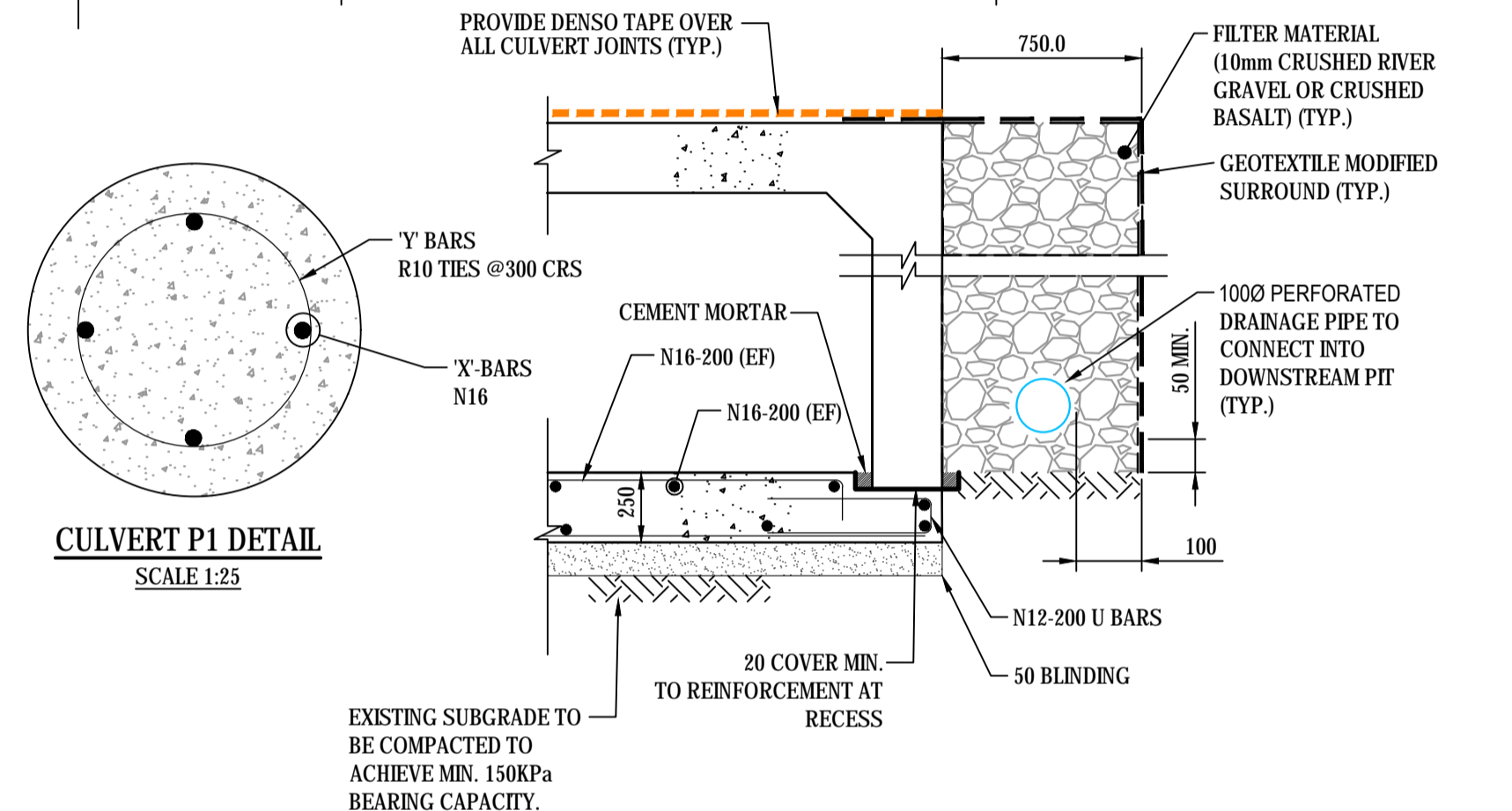
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	DAC111	Issue
Project No.	16-428	H



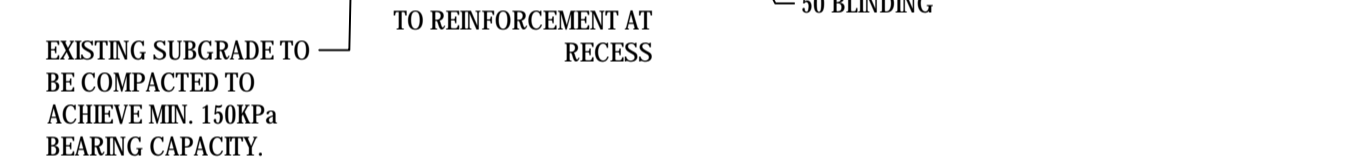
ES/1 AND ES/2 PLAN
SCALE 1:50



SECTION 3
SCALE 1:25

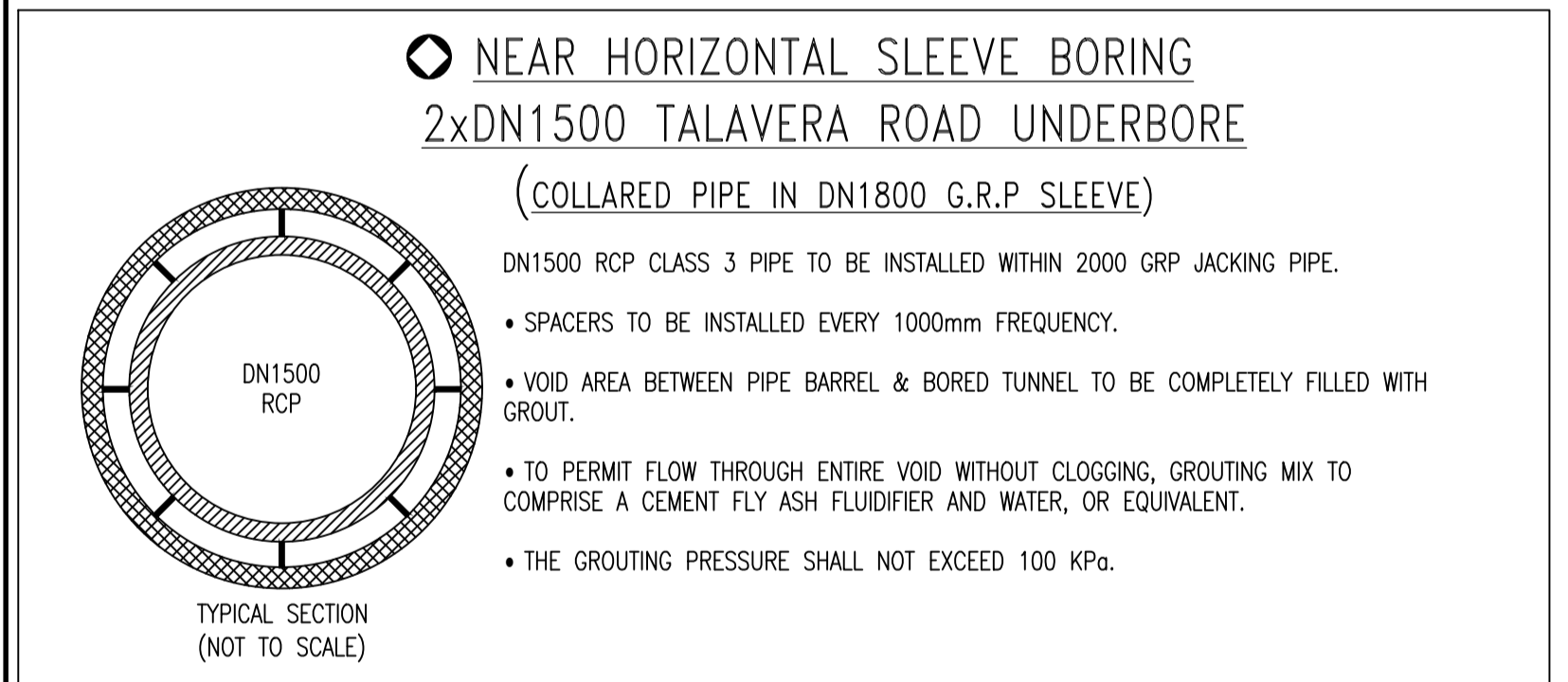


CULVERT P1 DETAIL
SCALE 1:25

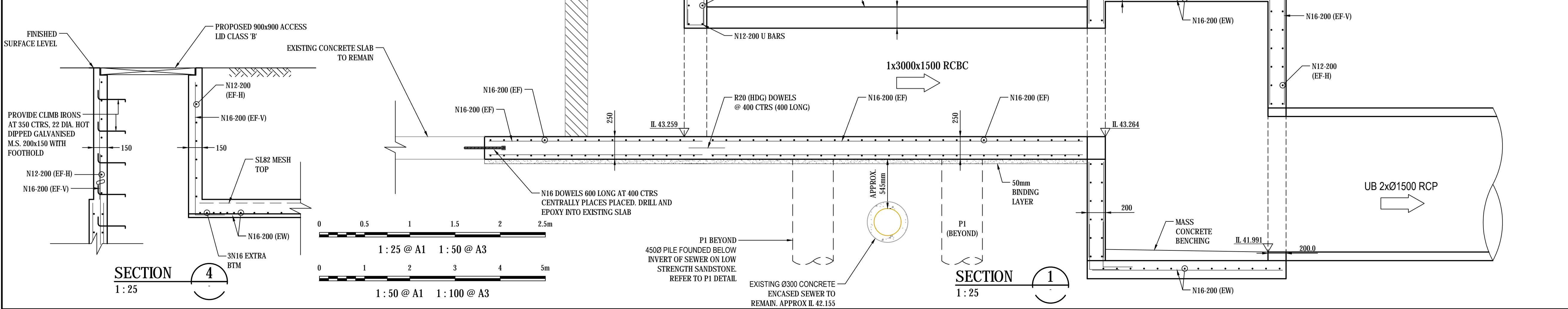


SECTION 2
SCALE 1:25

- NOTES:**
- $f_c = 32\text{MPa}$
 - **MINIMUM COVER 40mm**
 - REFER DWG 16-428-CC085 FOR GENERAL NOTES
 - REFER DWG 16-428-CC085 FOR TYPICAL CORNER AND TRIMMER BAR DETAILS



NOTE: UNDERBORE DESIGN SUBJECT TO STRUCTURAL AND GEOTECHNICAL DESIGN. ABOVE DESIGN CONSIDERED INDICATIVE ONLY



SECTION 4
SCALE 1:25

SECTION 1
SCALE 1:25

Issue	Description	Date
F	ISSUED FOR APPROVAL	07-11-19
E	ISSUED FOR APPROVAL	04-10-19
D	ISSUED FOR APPROVAL	30-09-19
C	ISSUED FOR COMMENT	16-09-19
B	ISSUED FOR COMMENT	03-09-19
A	ISSUED FOR COMMENT	30-08-19

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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

Scale	AS SHOWN	Drawn	ASD
		Designed	GJ
Height Datum	AHD	Checked	AT
Grid	MGA	Approved	

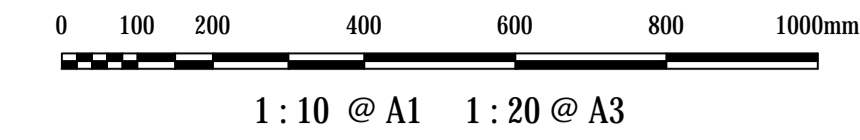
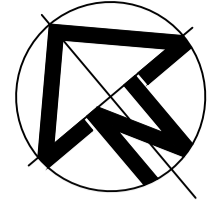
KARIMBLA CONSTRUCTION SERVICES (NSW) PTY LIMITED
Level 11, 528 Kent Street, Sydney NSW 2000
Tel: (02) 9287 2888 Fax: (02) 9287 2777
Email: info@design.mention.com.au
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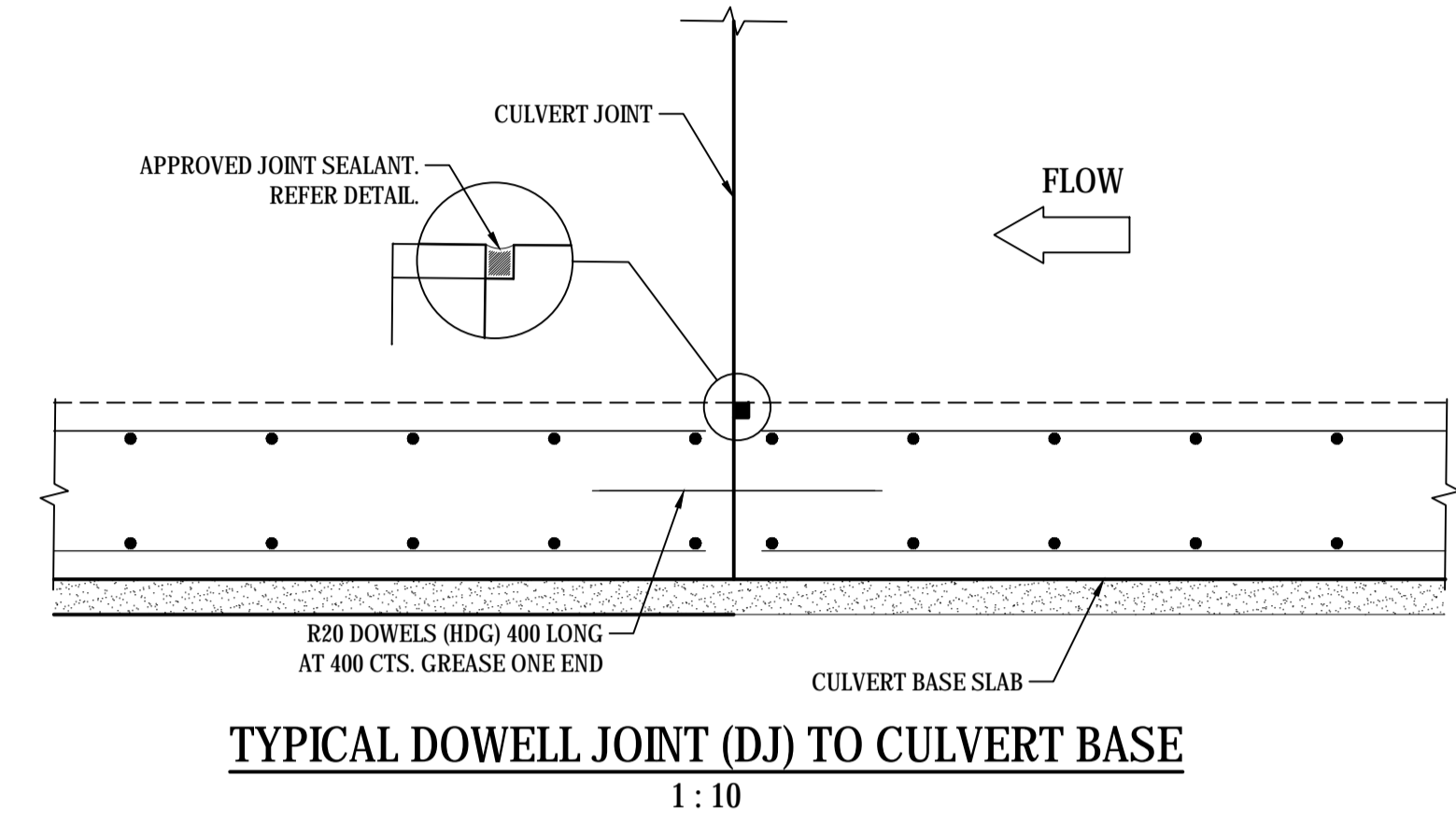
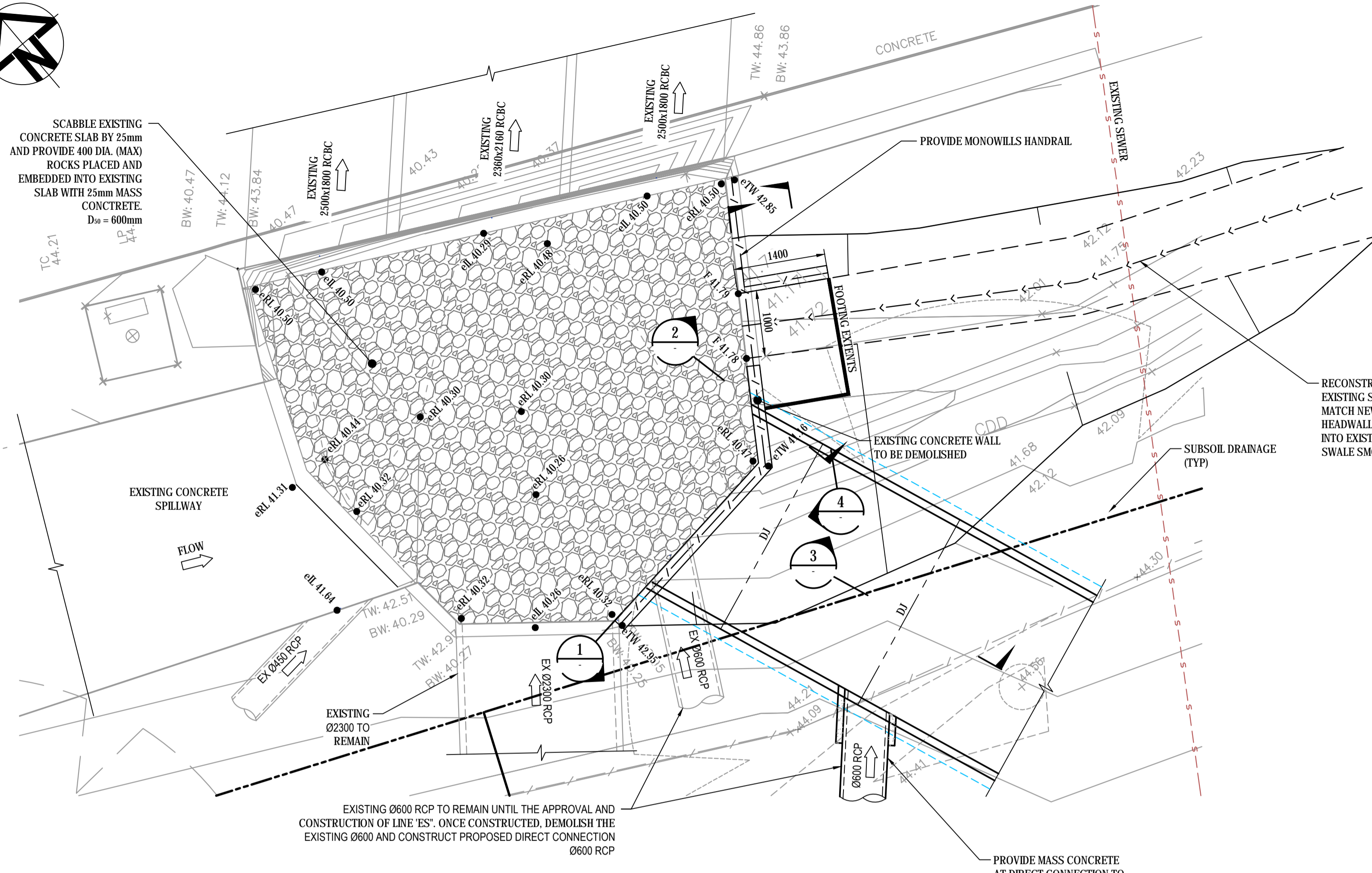
STAGE 1
112 - 118 TALAVERA ROAD
MACQUARIE PARK

STORMWATER DETAILS
SHEET 1

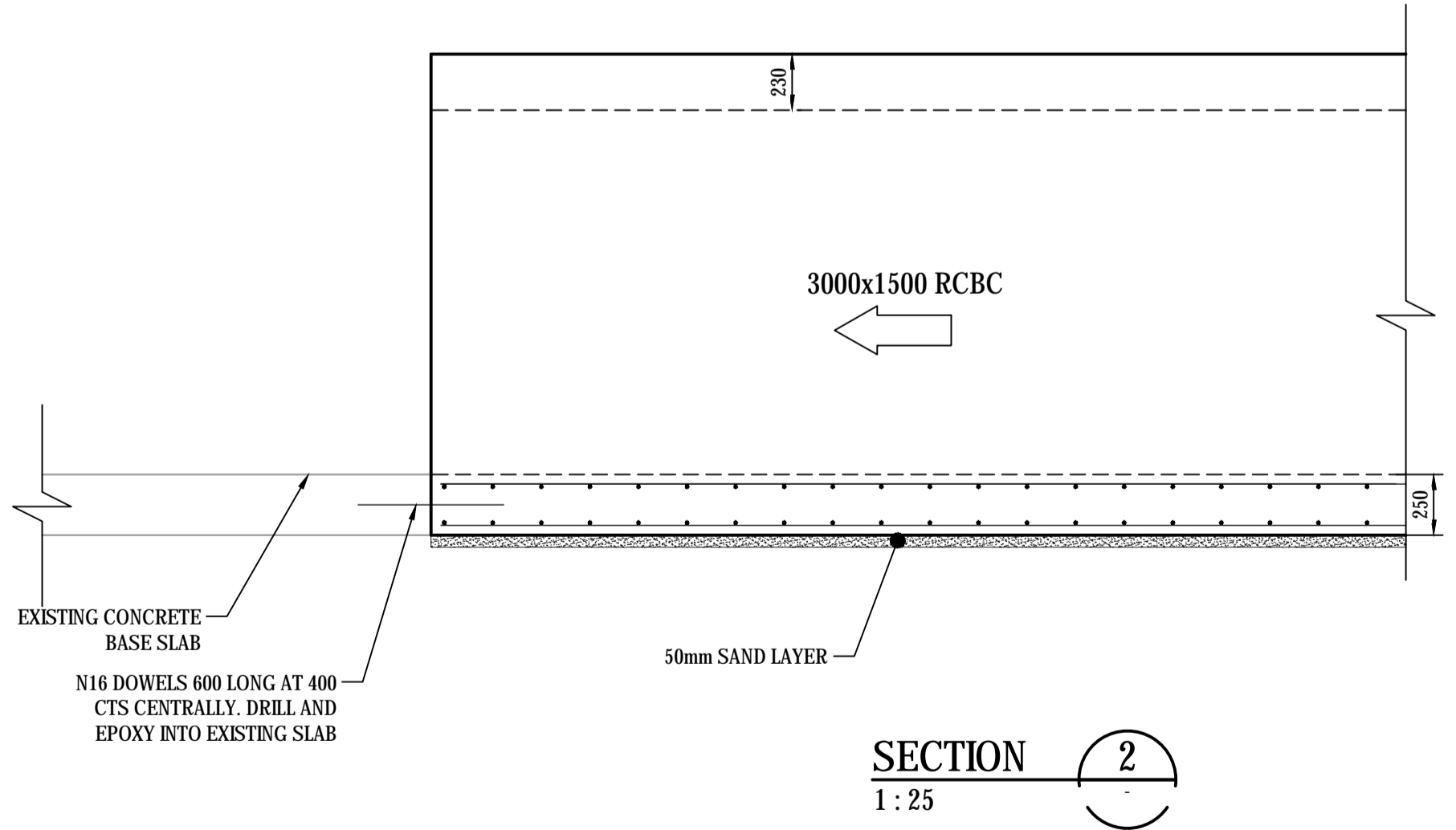
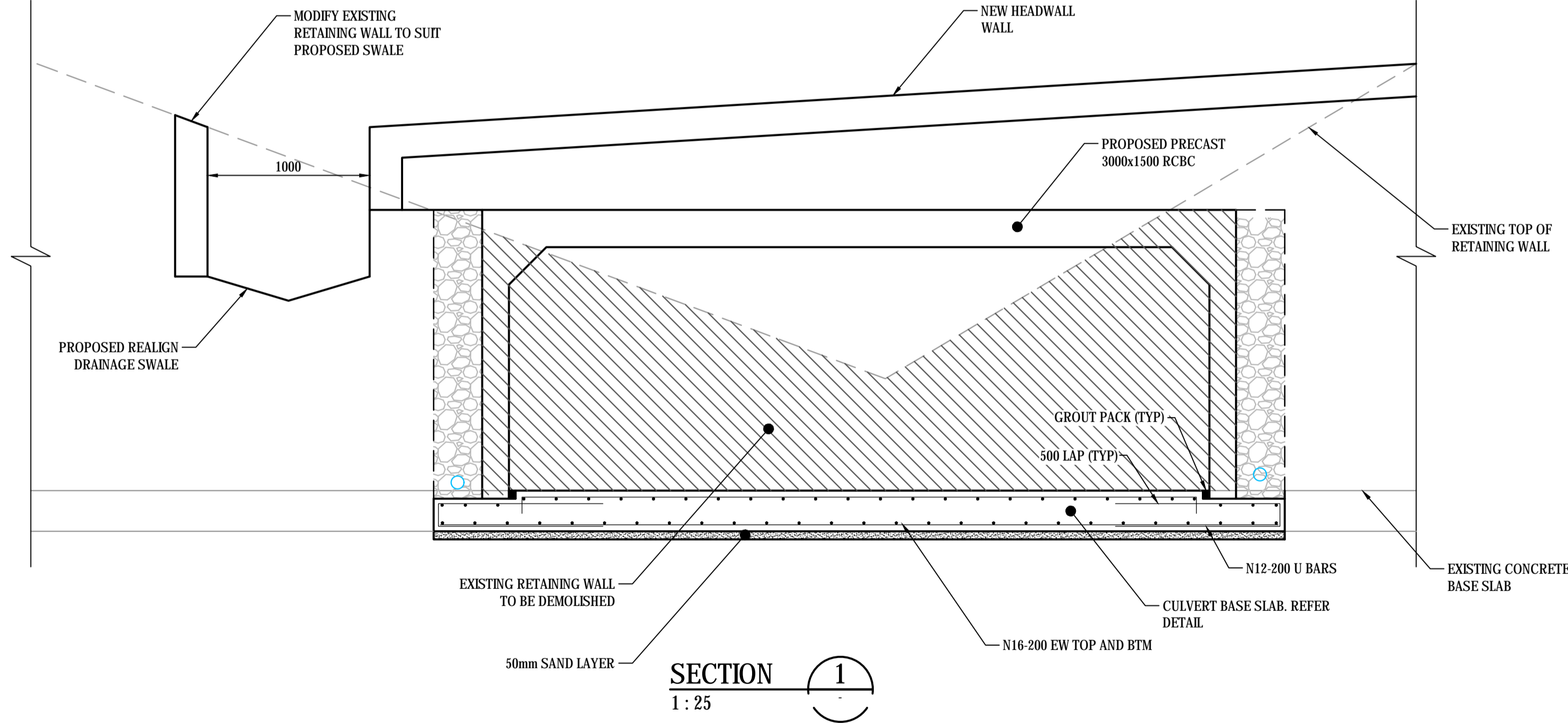
Drawing No.	Project No.	Issue
DAC120	16-428	H



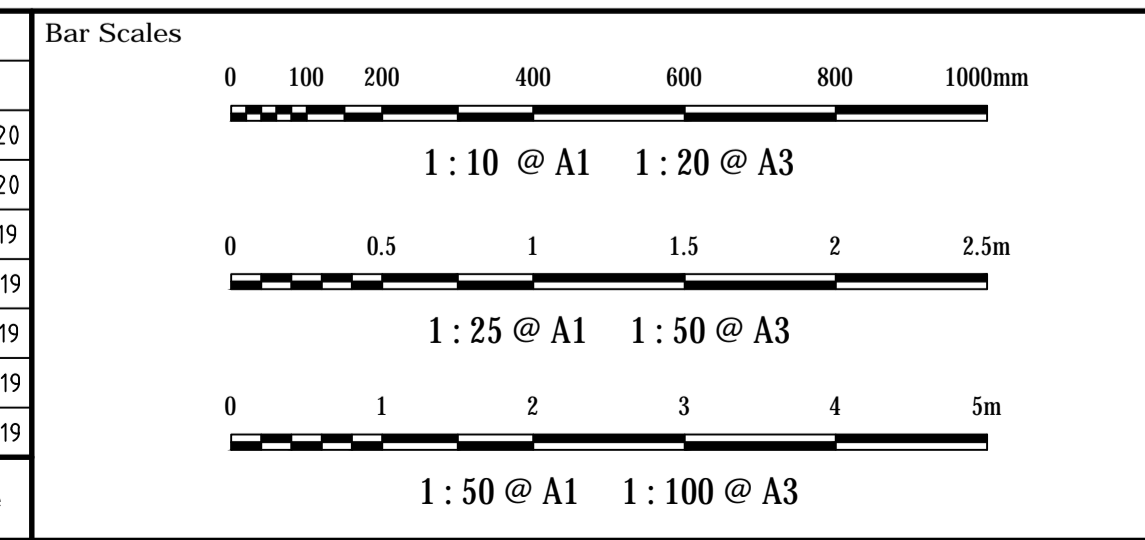
SCABBLE EXISTING CONCRETE SLAB BY 25mm AND PROVIDE 400 DIA. (MAX) ROCKS PLACED AND EMBEDDED INTO EXISTING SLAB WITH 25mm MASS CONCRETE. D₅₀ = 600mm



ES/7 PLAN
SCALE 1:50



Issue	Description	Date
G	ISSUED FOR APPROVAL	11-02-20
F	ISSUED FOR APPROVAL	31-01-20
E	ISSUED FOR APPROVAL	07-11-19
D	ISSUED FOR APPROVAL	30-09-19
C	ISSUED FOR COMMENT	16-09-19
B	ISSUED FOR COMMENT	03-09-19
A	ISSUED FOR COMMENT	30-08-19



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Client

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AS SHOWN	ASD
Designed	GJ
Checked	AT
Approved	

Grid MGA
Height Datum AHD

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

Title

**STORMWATER DETAILS
SHEET 2**

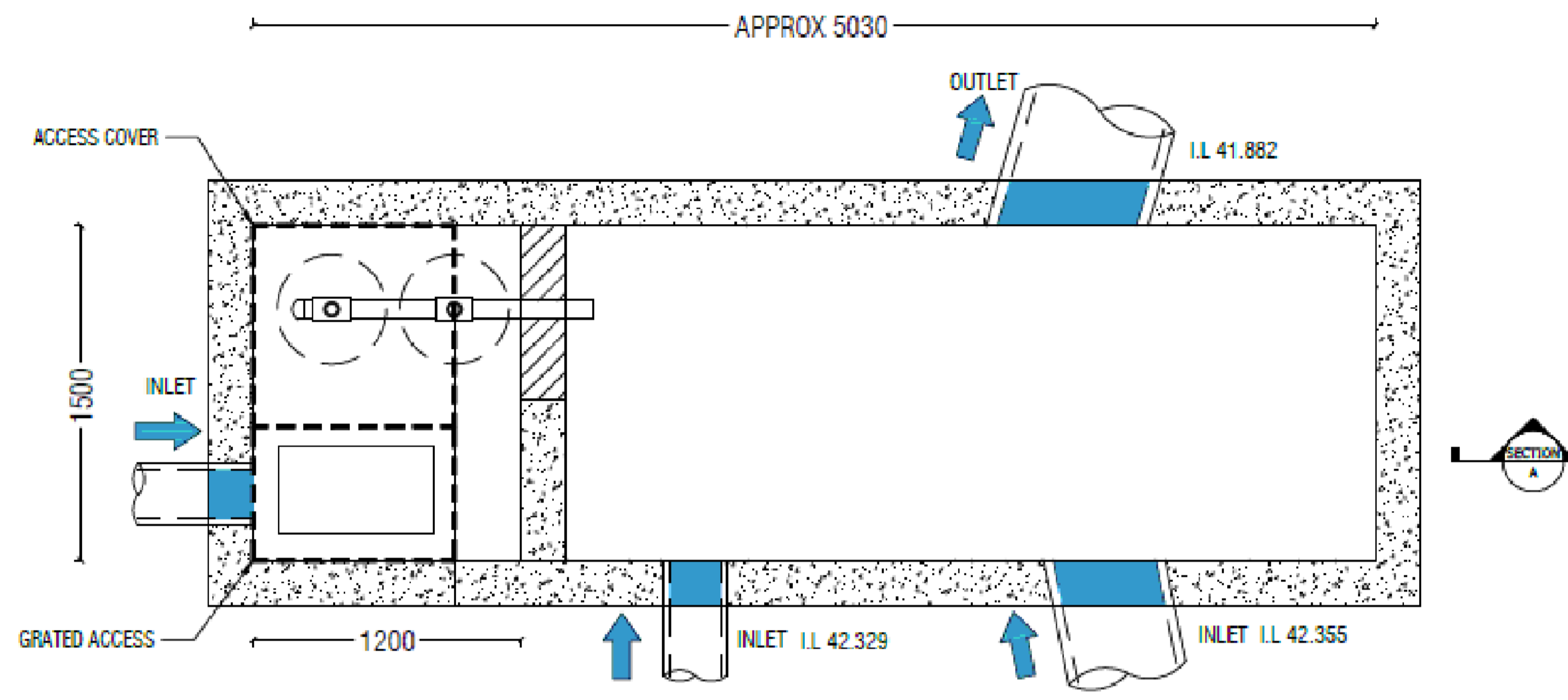
Civil Engineers and Project Managers

at&l

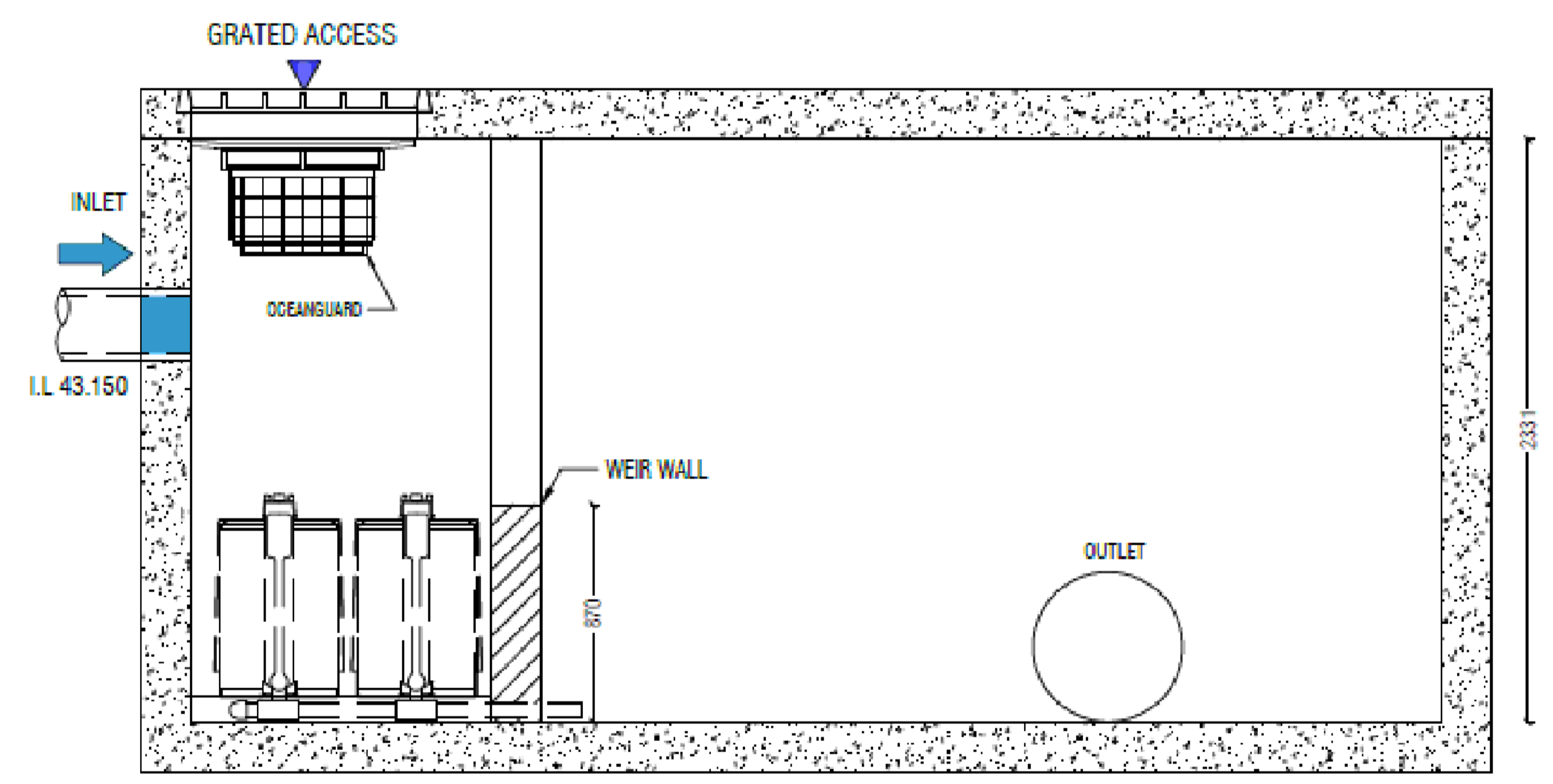
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9460 8413
www.atl.net.au
info@atl.net.au

Status **FOR APPROVAL**
NOT TO BE USED FOR CONSTRUCTION

Drawing No. DAC121	Project No. 16-428	Issue G
---------------------------	---------------------------	----------------



PLAN LAYOUT



SECTION A

Issue	Description	Date
B	ISSUED FOR APPROVAL	11-02-20
A	ISSUED FOR APPROVAL	07-02-20

Bar Scales

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Internet: http://www.meriton.com.au

Scale	N.T.S.	Drawn	ASD
		Designed	GJ
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

Title

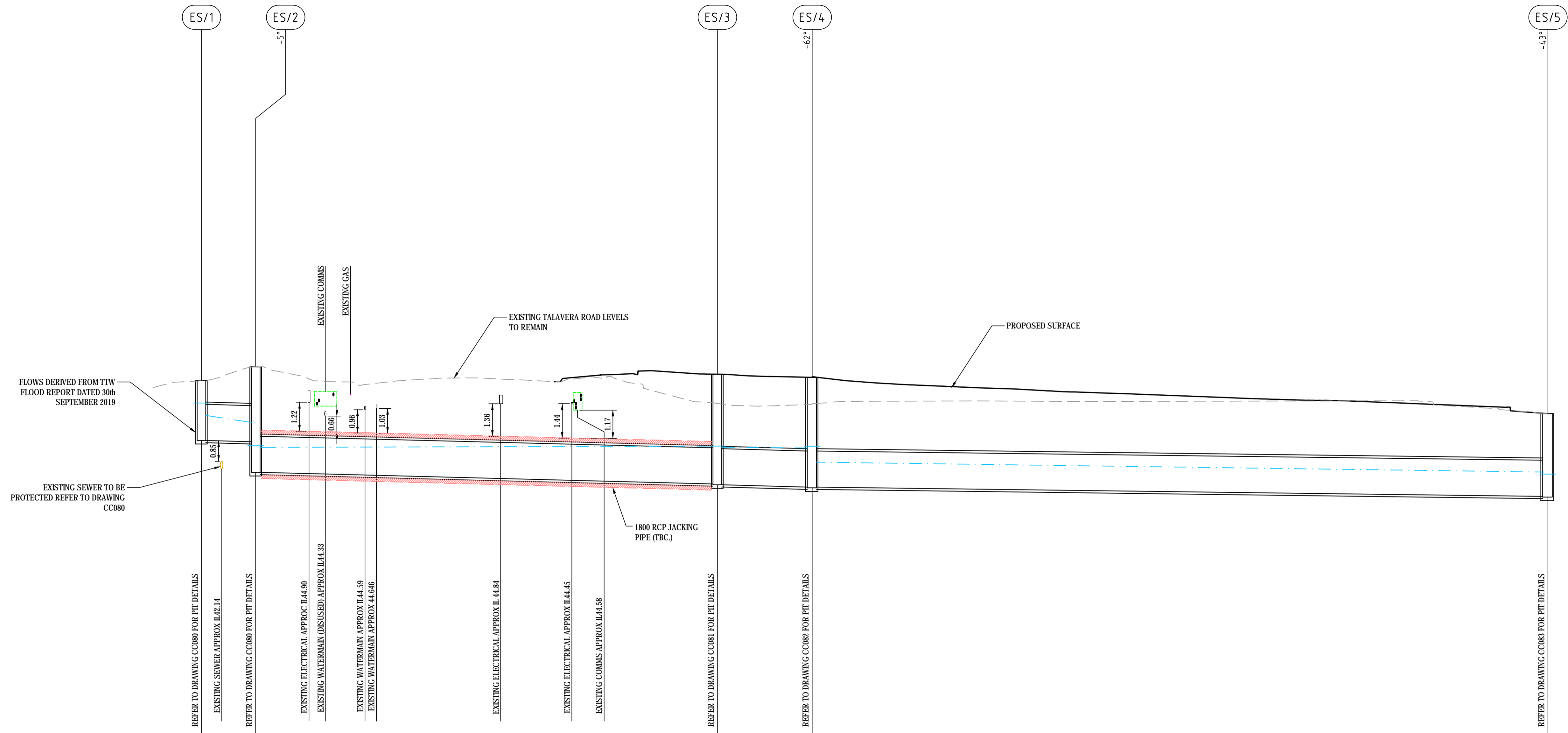
**STORMWATER DETAILS
SHEET 3**

Civil Engineers and Project Managers

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North Sydney NSW 2060
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www.atl.net.au
info@atl.net.au

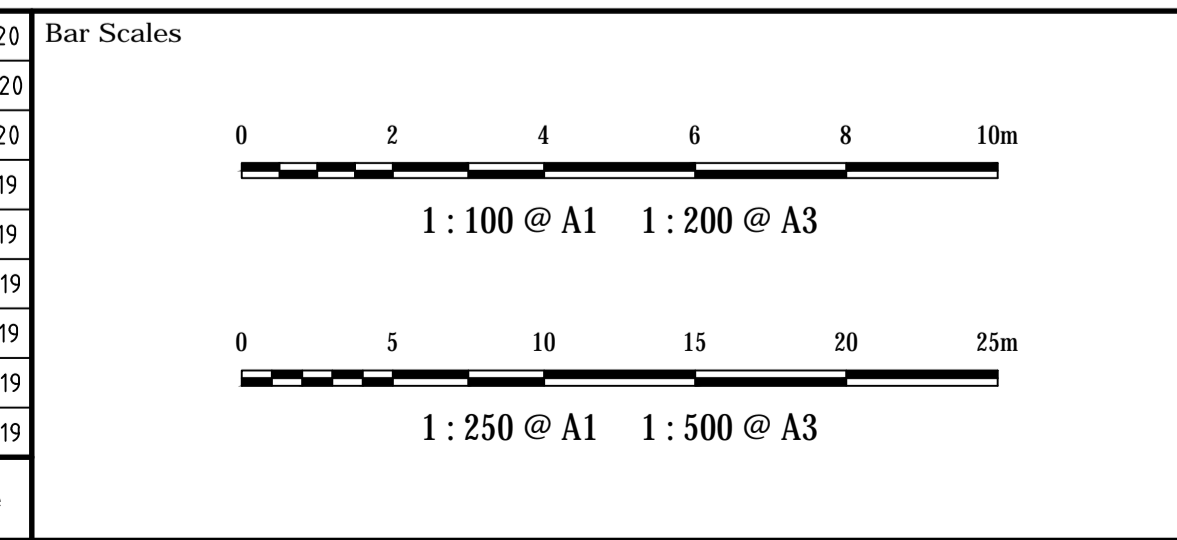
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	16-428	Issue
Project No.	16-428	B



DATUM RL		29.00									
PROPOSED SURFACE LEVEL	45.80	46.37			46.07	45.94					44.40
NATURAL SURFACE LEVEL	45.80	46.37			44.85	44.82					44.39
DEPTH TO INVERT	2.48	3.11	4.38		4.56	4.59	4.56	4.59			3.44
1% AEP HYDRAULIC GRADE LINE	44.87	44.36	44.07 43.10	43.03	43.08	43.03	43.00 43.08	42.39			41.97 41.89
INVERT LEVEL	43.32	43.26	41.99		41.51	41.48	41.38	41.35			40.97
PIPE CHAINAGE AND LENGTH	-44.40	L=5.64	-38.76		L=47.98		9.22	L=9.85	19.07		L=76.47
PIPE SIZE (mm)		(2x)1500			(2x)1500			(2x)1500			(2x)1500
PIPE GRADE (%)		1%			1%			1%			0.5%
PIPE GRADE (1 in)		1 in 99.9			1 in 100			1 in 100			1 in 200
PIPE COVER MINIMUM		0.98			2.41			2.91			1.83
PIPE CLASS		RCP CLASS 2			RCP CLASS 2			RCP CLASS 2			RCP CLASS 2
PIPE ROUGHNESS		n=0.013			n=0.013			n=0.013			n=0.013
Vcap - CAPACITY VELOCITY (m/s)		Vcap=4.00			Vcap=4.00			Vcap=4.00			Vcap=2.83
Vc - CRITICAL DEPTH VELOCITY (m/s)		Vc=3.04			Vc=3.04			Vc=3.04			Vc=3.04
Vn - NORMAL DEPTH VELOCITY (m/s)		Vn=4.12			Vn=4.11			Vn=4.11			Vn=3.14
Vf - FULL PIPE VELOCITY (m/s)		Vf=2.24			Vf=2.24			Vf=2.24			Vf=2.24
Qcap - CAPACITY FLOW (L/s)		Qcap=14148			Qcap=14143			Qcap=14143			Qcap=10002
Q - PIPE FLOW (L/s)		Q=7930			Q=7930			Q=7930			Q=7930
Qi - PIT INFLOW (L/s) & CHOKE (%)	Qi=0	Qi=0			Qi=0			Qi=0			Qi=0
Ku (& Kw) - PIT LOSS FACTORS	2.00	0.27			0.20			2.40	(2.69)		0.40

LINE ES

Issue	Description	Date
J	ISSUED FOR APPROVAL	11-02-20
I	ISSUED FOR APPROVAL	07-20-20
H	ISSUED FOR APPROVAL	31-01-20
G	ISSUED FOR APPROVAL	07-11-19
F	ISSUED FOR APPROVAL	01-10-19
E	ISSUED FOR APPROVAL	30-09-19
D	ISSUED FOR COMMENT	16-09-19
C	ISSUED FOR COMMENT	03-09-19
B	ISSUED FOR COMMENT	30-08-19



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Client

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Internet: http://www.meriton.com.au

Scale	1: 250 H 1: 100 V	Drawn	ASD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	AT

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

Title

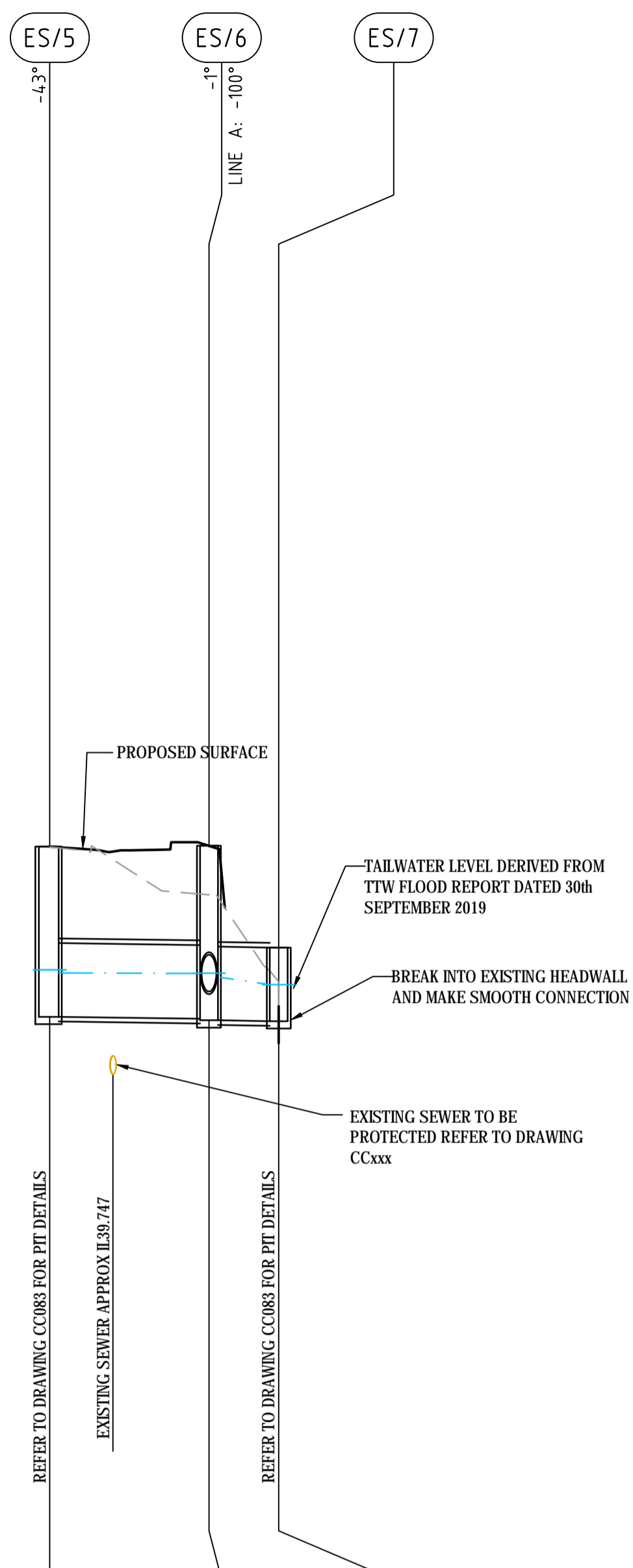
**STORMWATER
LONGSECTION
SHEET 1**

Client Engineers and Project Managers

at&l

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info@atl.net.au

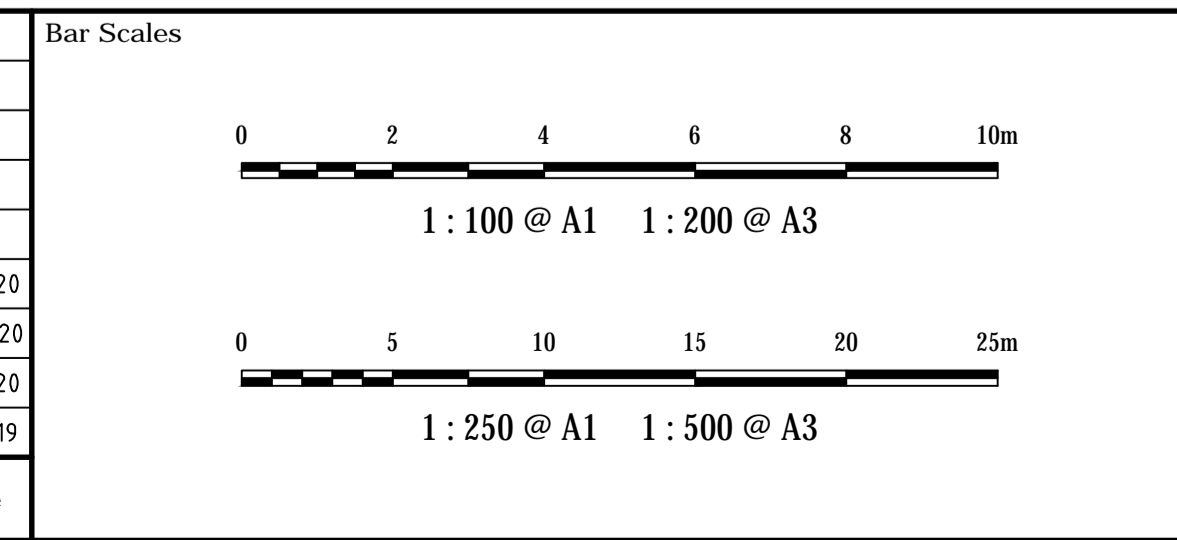
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	16-428	Issue
Project No.	16-428	J



DATUM RL				
PROPOSED SURFACE LEVEL	44.40	44.42	0.00	
NATURAL SURFACE LEVEL	44.39	43.42	40.40	
DEPTH TO INVERT	3.44	3.47	3.52	3.55
1% AEP HYDRAULIC GRADE LINE	4.197 4.189	4.183	4.182	4.177
INVERT LEVEL	40.97	40.94	40.90	40.87
PIPE CHAINAGE AND LENGTH	95.54	L=8.10 103.65	L=3.55 107.20	
PIPE SIZE (mm)		3000x1500	3000x1500	
PIPE GRADE (%)		0.5%	0.5%	
PIPE GRADE (1 in)		1 in 200	1 in 200	
PIPE COVER MINIMUM		1.76	0.59	
PIPE CLASS		RCP CLASS 2	RCP CLASS 2	
PIPE ROUGHNESS		n=0.013	n=0.013	
Vcap - CAPACITY VELOCITY (m/s)		Vcap=3.43	Vcap=4.49	
Vc - CRITICAL DEPTH VELOCITY (m/s)		Vc=2.96	Vc=2.97	
Vn - NORMAL DEPTH VELOCITY (m/s)		Vn=3.46	Vn=3.47	
Vf - FULL PIPE VELOCITY (m/s)		Vf=1.76	Vf=1.79	
Qcap - CAPACITY FLOW (L/s)		Qcap=154.18	Qcap=20158	
Q - PIPE FLOW (L/s)		Q=7930	Q=8030	
Qi - PIT INFLOW (L/s) & CHOKE (%)	Qi=0	Qi=0		
Ku (& Kw) - PIT LOSS FACTORS	0.40	0.32 (0.35)		

LINE ES

Issue	Description	Date
D	ISSUED FOR APPROVAL	11-02-20
C	ISSUED FOR APPROVAL	07-20-20
B	ISSUED FOR APPROVAL	31-01-20
A	ISSUED FOR APPROVAL	07-11-19



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Scale	Drawn	ASD
1: 250 H 1: 100 V	Designed	GJ
Grid	Checked	AT
MGA	Checked	AT
Height Datum	Approved	
AHD	Approved	

Project

**118 TALAVERA ROAD
MACQUARIE PARK**

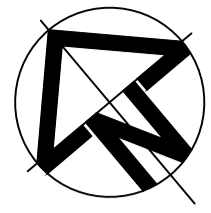
Title

**STORMWATER
LONGSECTION
SHEET 2**

Civil Engineers and Project Managers

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9460 8413
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info@atl.net.au

Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	Project No.	Issue
DAC131	16-428	D

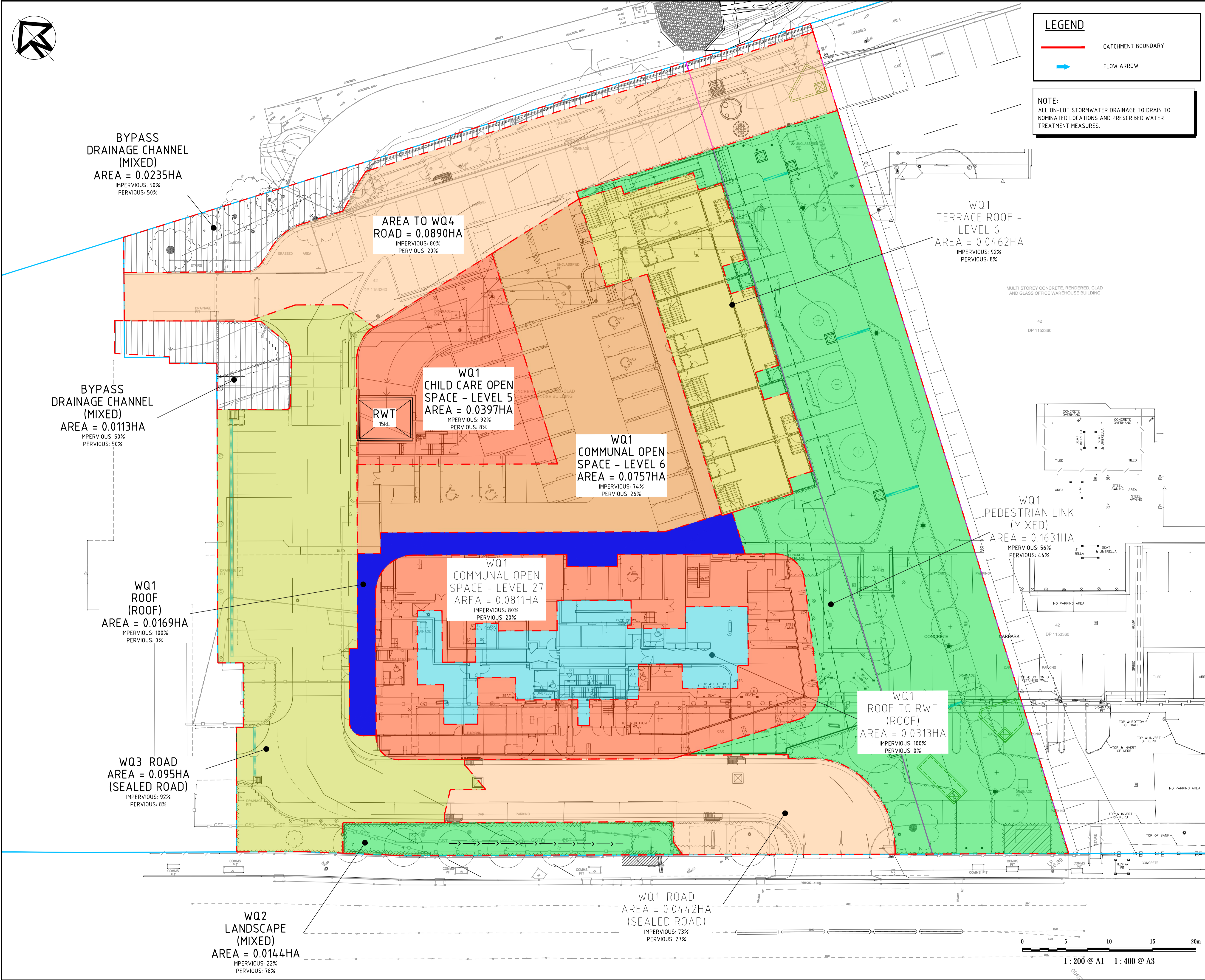


LEGEND

— CATCHMENT BOUNDARY

→ FLOW ARROW

NOTE:
ALL ON-LOT STORMWATER DRAINAGE TO DRAIN TO NOMINATED LOCATIONS AND PRESCRIBED WATER TREATMENT MEASURES.



BYPASS DRAINAGE CHANNEL (MIXED)
AREA = 0.0235HA
IMPERVIOUS: 50%
PERVIOUS: 50%

AREA TO WQ4 ROAD = 0.0890HA
IMPERVIOUS: 80%
PERVIOUS: 20%

WQ1 TERRACE ROOF - LEVEL 6
AREA = 0.0462HA
IMPERVIOUS: 92%
PERVIOUS: 8%

BYPASS DRAINAGE CHANNEL (MIXED)
AREA = 0.0113HA
IMPERVIOUS: 50%
PERVIOUS: 50%

WQ1 CHILD CARE OPEN SPACE - LEVEL 5
AREA = 0.0397HA
IMPERVIOUS: 92%
PERVIOUS: 8%

WQ1 COMMUNAL OPEN SPACE - LEVEL 6
AREA = 0.0757HA
IMPERVIOUS: 74%
PERVIOUS: 26%

WQ1 ROOF (ROOF)
AREA = 0.0169HA
IMPERVIOUS: 100%
PERVIOUS: 0%

WQ1 COMMUNAL OPEN SPACE - LEVEL 27
AREA = 0.0811HA
IMPERVIOUS: 80%
PERVIOUS: 20%

WQ1 PEDESTRIAN LINK (MIXED)
AREA = 0.1631HA
IMPERVIOUS: 56%
PERVIOUS: 44%

WQ1 ROOF TO RWT (ROOF)
AREA = 0.0313HA
IMPERVIOUS: 100%
PERVIOUS: 0%

WQ3 ROAD AREA = 0.095HA (SEALED ROAD)
IMPERVIOUS: 92%
PERVIOUS: 8%

WQ2 LANDSCAPE (MIXED)
AREA = 0.0144HA
IMPERVIOUS: 22%
PERVIOUS: 78%

WQ1 ROAD AREA = 0.0442HA (SEALED ROAD)
IMPERVIOUS: 73%
PERVIOUS: 27%

Issue	Description	Date
C	ISSUED FOR APPROVAL	11-02-20
B	ISSUED FOR APPROVAL	07-20-20
A	ISSUED FOR APPROVAL	31-01-20

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Status: **FOR APPROVAL** A1
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Scales	1 : 200		Drawn	ASD
			Designed	GJ
Height Datum	AHD	Checked	AT	
Grid	MGA	Approved		

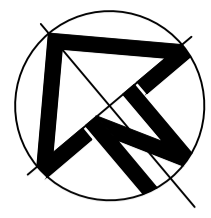
Client: **KARIMBLA CONSTRUCTION SERVICES (NSW) PTY LIMITED**
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Project: **STAGE 1 112 - 118 TALAVERA ROAD MACQUARIE PARK**

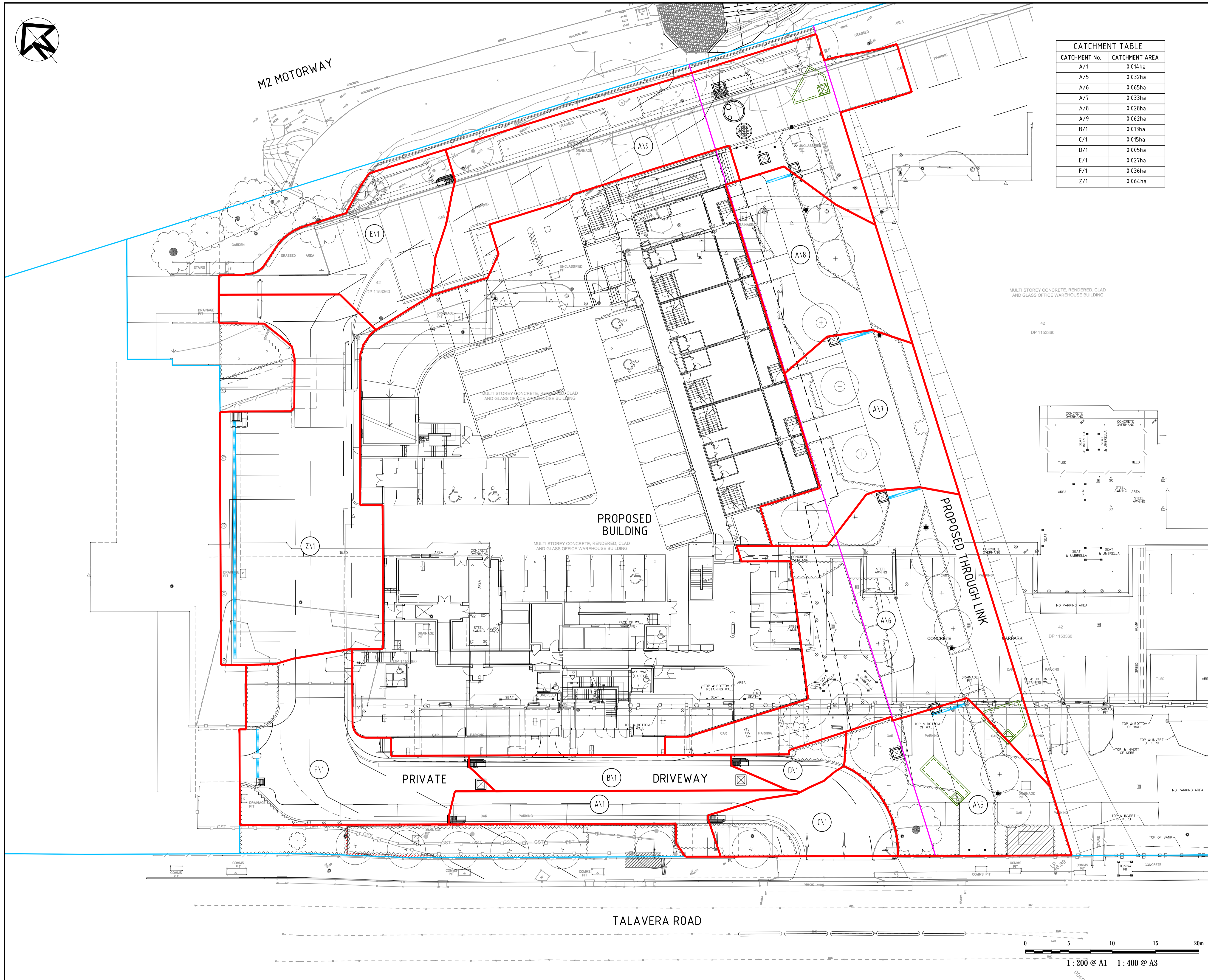
Title: **STORMWATER CATCHMENT PLAN SHEET 1**

Drawing No.	Project No.	Issue
DAC140	16-428	C



M2 MOTORWAY

CATCHMENT TABLE	
CATCHMENT No.	CATCHMENT AREA
A/1	0.014ha
A/5	0.032ha
A/6	0.065ha
A/7	0.033ha
A/8	0.028ha
A/9	0.062ha
B/1	0.013ha
C/1	0.015ha
D/1	0.005ha
E/1	0.027ha
F/1	0.036ha
Z/1	0.064ha



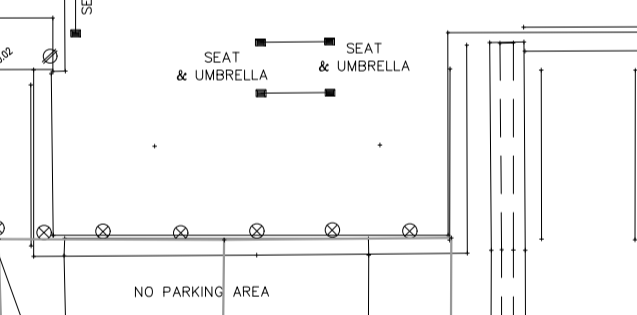
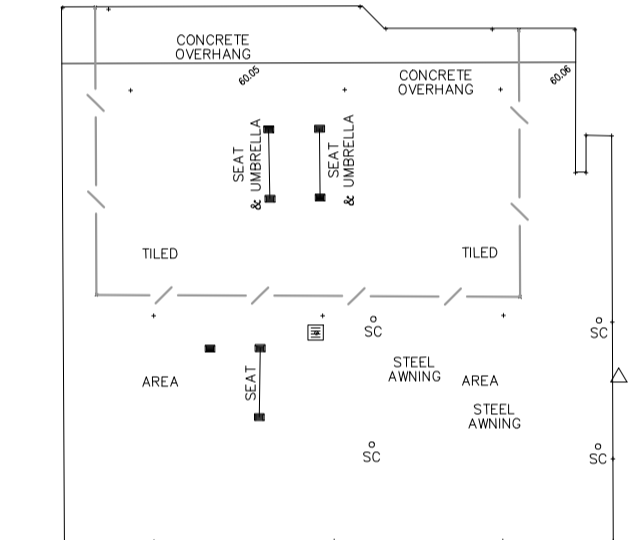
MULTI STOREY CONCRETE, RENDERED, CLAD AND GLASS OFFICE WAREHOUSE BUILDING

PROPOSED BUILDING

PROPOSED THROUGH LINK

PRIVATE DRIVEWAY

TALAVERA ROAD



Issue	Description	Date
C	ISSUED FOR APPROVAL	11-02-20
B	ISSUED FOR APPROVAL	07-20-20
A	ISSUED FOR APPROVAL	31-01-20

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Status: **FOR APPROVAL** **A1**
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Scale	Drawn	Designed	Checked	Approved
1 : 200	ASD	GJ	AT	

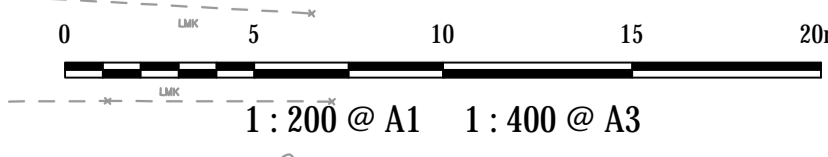
Client: **KARIMBLA CONSTRUCTION SERVICES (NSW) PTY LIMITED**
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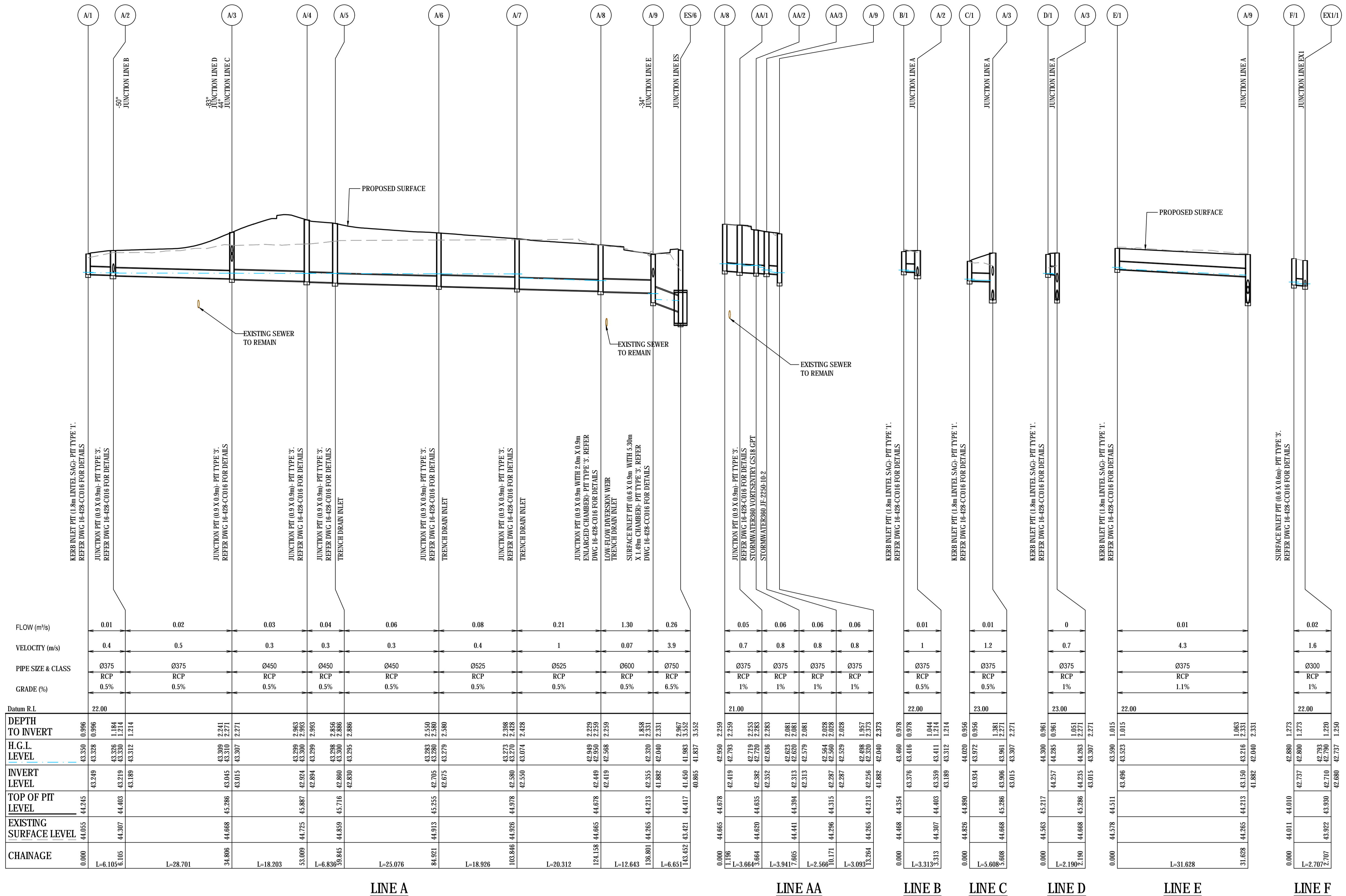
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Project: **STAGE 1**
112 - 118 TALAVERA ROAD
MACQUARIE PARK

Title: **STORMWATER CATCHMENT PLAN**
SHEET 2

Drawing No.	Project No.	Issue
DAC141	16-428	C

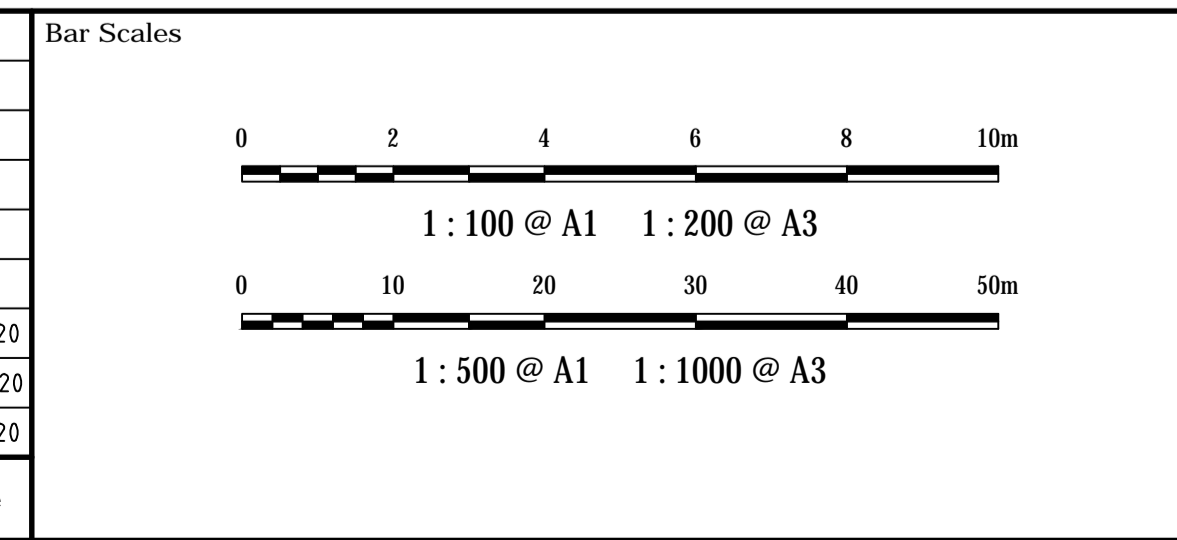




	A/1	A/2	A/3	A/4	A/5	A/6	A/7	A/8	A/9	ES/6	A/8	AA/1	AA/2	AA/3	A/9	B/1	A/2	C/1	A/3	D/1	A/3	E/1	A/9	F/1	EX/1	
FLOW (m/s)	0.01	0.02	0.03	0.04	0.06	0.08	0.21	1.30	0.26		0.05	0.06	0.06	0.06		0.01		0.01		0		0.01			0.02	
VELOCITY (m/s)	0.4	0.5	0.3	0.3	0.3	0.4	1	0.07	3.9		0.7	0.8	0.8	0.8		1		1.2		0.7		4.3			1.6	
PIPE SIZE & CLASS	Ø375 RCP	Ø375 RCP	Ø450 RCP	Ø450 RCP	Ø450 RCP	Ø525 RCP	Ø525 RCP	Ø600 RCP	Ø750 RCP		Ø375 RCP	Ø375 RCP	Ø375 RCP	Ø375 RCP		Ø375 RCP		Ø375 RCP		Ø375 RCP		Ø375 RCP			Ø300 RCP	
GRADE (%)	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	6.5%		1%	1%	1%	1%		0.5%		0.5%		1%		1.1%			1%	
Datum R.L.	22.00										21.00					22.00		23.00		23.00		22.00			22.00	
DEPTH TO INVERT	0.996	0.996																								
H.G.L. LEVEL	43.350	43.328	43.306	43.284	43.262	43.240	43.218	43.196	43.174	43.152	42.918	42.896	42.874	42.852	42.830	42.600	42.578	42.556	42.534	42.512	42.490	42.468	42.446	42.424	42.402	42.380
INVERT LEVEL	43.249	43.227	43.205	43.183	43.161	43.139	43.117	43.095	43.073	43.051	42.817	42.795	42.773	42.751	42.729	42.499	42.477	42.455	42.433	42.411	42.389	42.367	42.345	42.323	42.301	42.279
TOP OF PIT LEVEL	44.245	44.223	44.201	44.179	44.157	44.135	44.113	44.091	44.069	44.047	43.813	43.791	43.769	43.747	43.725	43.495	43.473	43.451	43.429	43.407	43.385	43.363	43.341	43.319	43.297	43.275
EXISTING SURFACE LEVEL	44.055	44.033	44.011	43.989	43.967	43.945	43.923	43.901	43.879	43.857	43.623	43.601	43.579	43.557	43.535	43.305	43.283	43.261	43.239	43.217	43.195	43.173	43.151	43.129	43.107	43.085
CHAINAGE	0.000	L=6.105	L=12.210	L=18.315	L=24.420	L=30.525	L=36.630	L=42.735	L=48.840	L=54.945	L=61.050	L=67.155	L=73.260	L=79.365	L=85.470	L=91.575	L=97.680	L=103.785	L=109.890	L=115.995	L=122.100	L=128.205	L=134.310	L=140.415	L=146.520	L=152.625

LINE A LINE AA LINE B LINE C LINE D LINE E LINE F

Issue	Description	Date
C	ISSUED FOR APPROVAL	11-02-20
B	ISSUED FOR APPROVAL	07-20-20
A	ISSUED FOR APPROVAL	31-01-20



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Drawn	ASD
Designed	GJ
Checked	AT
Approved	

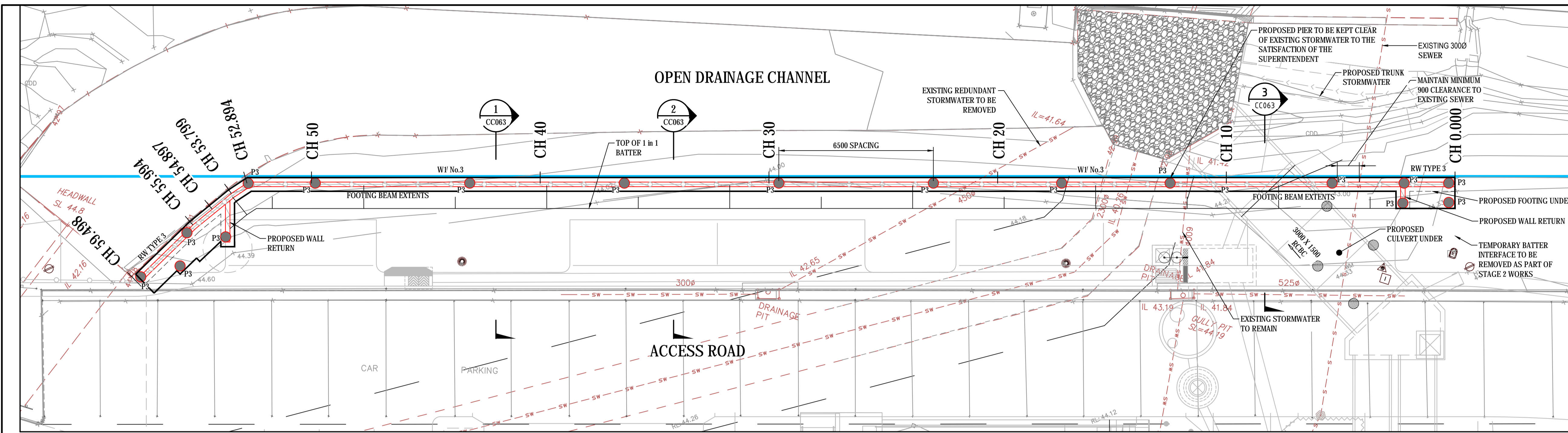
Project
**118 TALAVERA ROAD
 MACQUARIE PARK**

Title
**STORMWATER
 LONGSECTION
 INTERNAL**

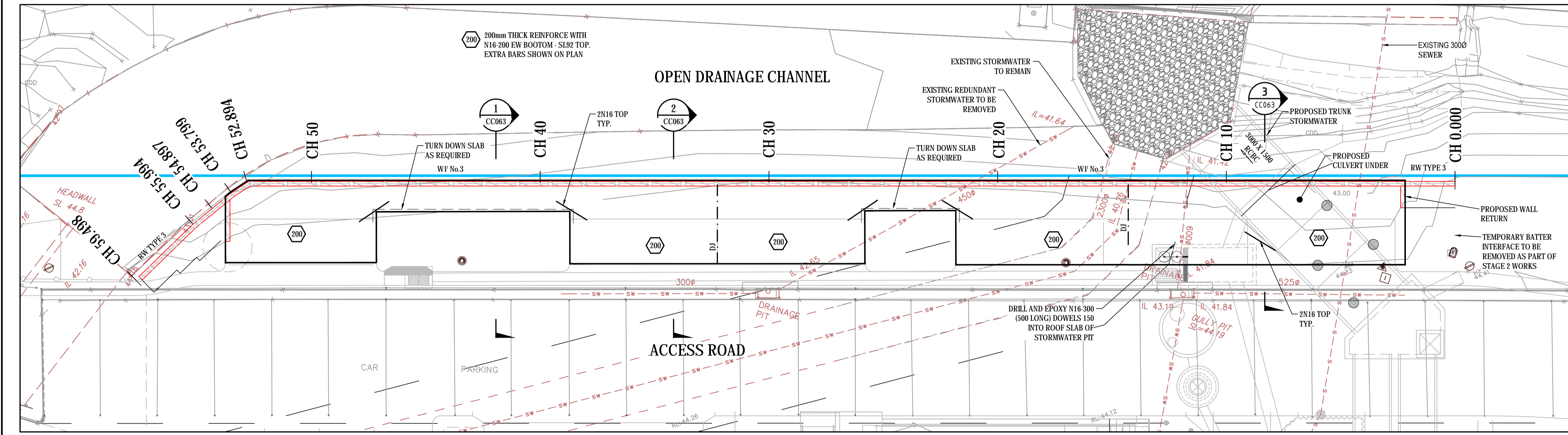
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 ABN 96 130 882 405
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Status
**FOR APPROVAL
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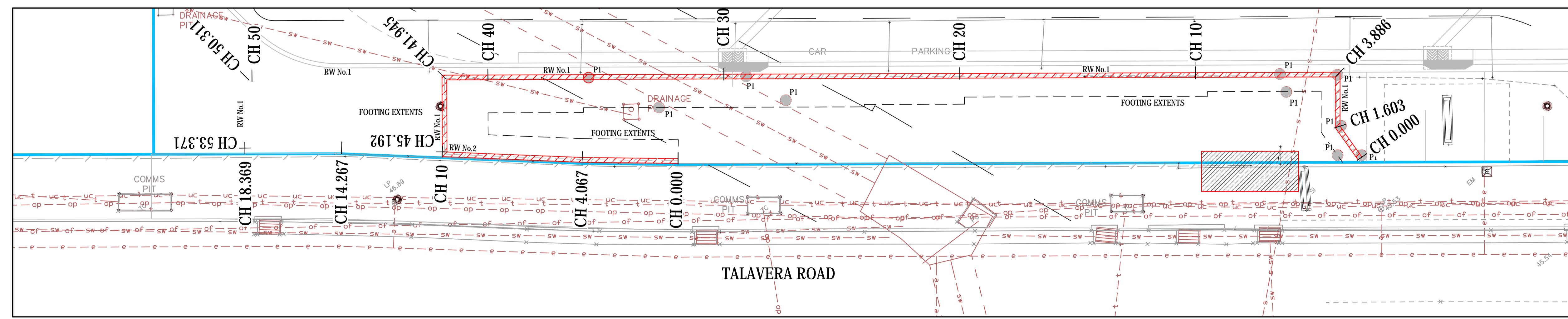
Drawing No. **16-428** Issue **C**



RETAINING WALL 3 FOOTING PLAN
1:100



RETAINING WALL 3 SLAB PLAN
1:100



RETAINING WALL 1 AND 2 PLAN
1:100

NOTES:
1. REFER TO DWG CC063 FOR RETAINING AND THE SPECIFICATION.

Issue	Description	Date
H	ISSUED FOR APPROVAL	14-02-20
G	ISSUED FOR APPROVAL	07-02-20
F	ISSUED FOR APPROVAL	20-01-20
E	ISSUED FOR INFORMATION	17-01-20
D	ISSUED FOR APPROVAL	16-01-20
C	ISSUED FOR APPROVAL	20-12-19

Status		FOR APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION				
Scale	1:100	16-428-CC060.dwg		
Height Datum	AHD	Checked	AT	
	MGA	Approved		

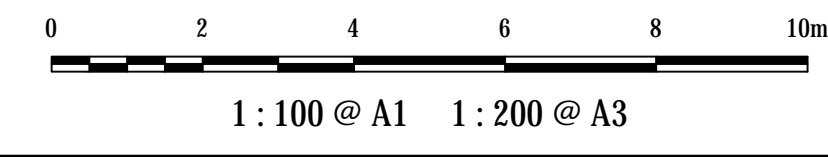
Client: **KARIMBLA CONSTRUCTION SERVICES (NSW) PTY LIMITED**
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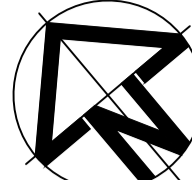
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Project: **STAGE 1
112 - 118 TALAVERA ROAD
MACQUARIE PARK**

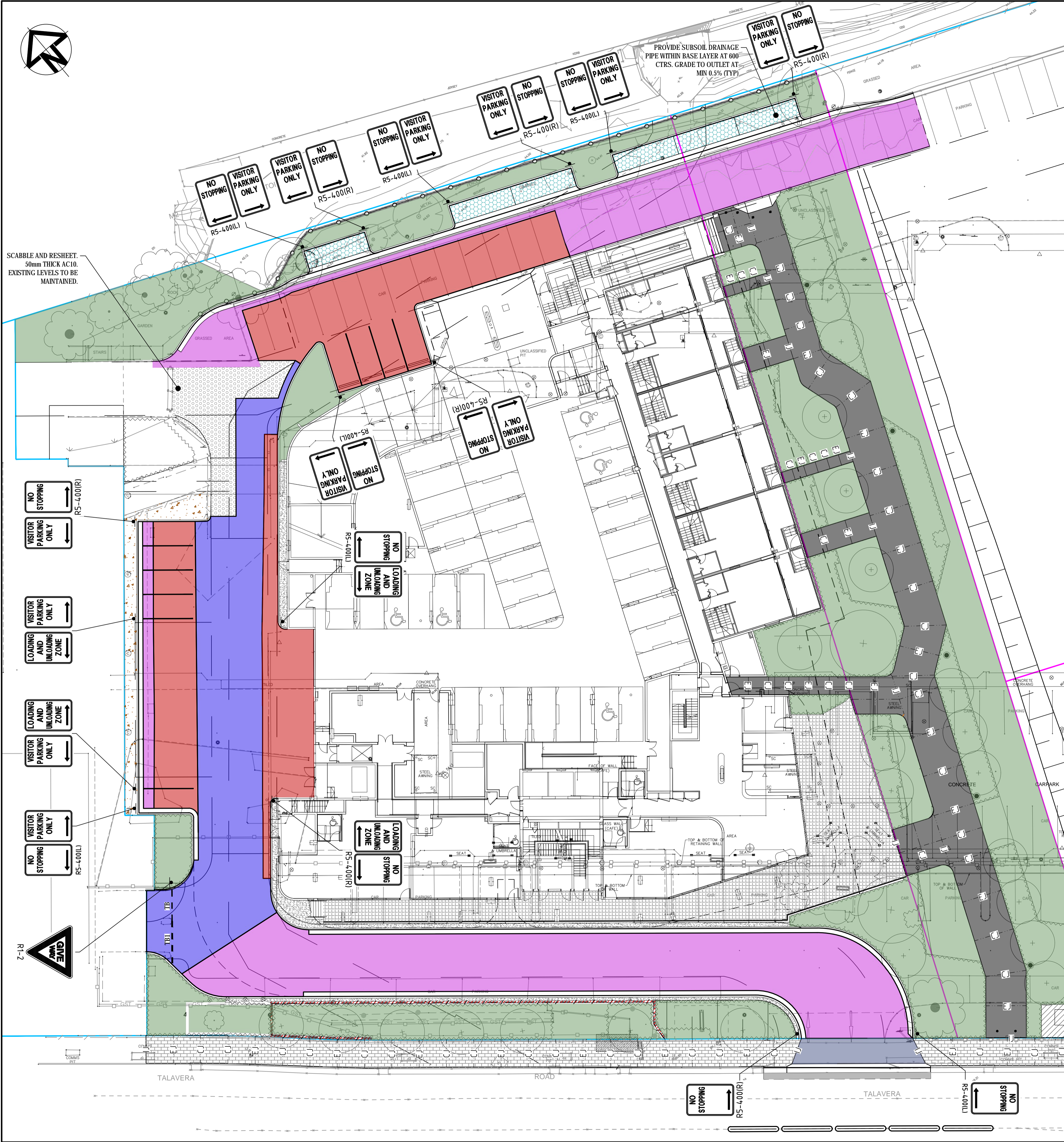
Title: **RETAINING WALL
PLAN**

Drawing No.	Project No.	Issue
16-428-CC060	16-428	H





SCABBLE AND RESHEET.
50mm THICK AC10.
EXISTING LEVELS TO BE
MAINTAINED.



LEGEND

- PAVEMENT TYPE 1 (AREAS OF FILL)**
50mm THICKNESS AC10 ON (AC14, A15E, R116) ON VARIABLE THICKNESS ASPHALT CONCRETE CORRECTION COURSE (AC20, A450, R116) ON QUICK DRY PRIME (R106) APPLICATION OF SAMILLA HM AT CONCRETE JOINTS
- PAVEMENT TYPE 2 (AREAS OF CUT)**
50mm THICKNESS AC10 ON (AC14, A15E, R116) ON THICKNESS ASPHALT CONCRETE (A20, A450, R116) ON PRIME SEAL (R106) ON VARIABLE THICKNESS BASECOURSE (DGB20, R71) DEMOLISH AND REMOVE CONCRETE SLAB (ASSUME 150-200mm THICKNESS)
- PAVEMENT TYPE 3 (NEW PAVEMENT)**
50mm THICKNESS AC14 ON THICKNESS DGB20 ON VARIABLE THICKNESS DGS40 (MAX 150 LAYERS) EXISTING SUBGRADE
- PAVEMENT TYPE 4 (SHARED PATH)**
REFER TO CoR STANDARD DRAWING CIV.5.1(E) FOR STANDARD CONCRETE FOOTPATH DETAILS
- PAVEMENT TYPE 5 (PERMEABLE PAVEMENT)**
80mm PAVERS (COLOUR AND PATTERN TO BE CONFIRMED BY LANDSCAPE ARCHITECT) ON 30mm THICK LAYER OF 2-5mm NO FINES BASALT AGGREGATE ON 150mm THICKNESS 5-20mm NO FINES AGGREGATE ON IMPERMEABLE LINER 100Φ SLOTTED PIPE @ 600 CRS AND MIN 0.5% GRADE ON STRUCTURAL SLAB
- PAVEMENT TYPE 6 (FEATURE PAVEMENT)**
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
- PAVEMENT TYPE 7 (TALAVERA ROAD FOOTPATH)**
60mm THICK GRANITE PAVER ON 8:1 CEMENT/SAND SCREED ON 125mm THICK CONCRETE SLAB WITH SL72 MESH (CENTRAL) ON THICK DGB20 ON COMPACTED SUBGRADE
- PAVEMENT TYPE 8 (VEHICULAR CROSSING)**
60mm THICK 'RAVEN BLACK' GRANITE PAVING ON 175mm THICK CONCRETE SLAB WITH SL82mm 50mm COVER ON THICK DGB20 ON COMPACTED SUBGRADE REFER TO CoR STD DWG PV4.9.1 & 4.9.3 ON
- PAVEMENT TYPE 9 (TALAVERA ROAD)**
TALAVERA ROAD PAVEMENT TO MATCH EXISTING
- PAVEMENT TYPE 10 (GRAVEL INFILL)**
32MPa MASS CONCRETE.
- PAVEMENT TYPE 11 (LANDSCAPING)**
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.

PAVEMENT JOINTS LEGEND

- EJ--- EXPANSION JOINT
- CJ--- CONSTRUCTION/CONTRACTION JOINT
- IJ--- ISOLATION JOINT

NOTES:
1. CONSTRUCTION AND EXPANSION JOINTS WITHIN FOOTPATH PAVEMENT REFER TO CITY OF RYDE STANDARD DRAWING JOINT TYPES PV3.1 & 3.1.1
2. ISOLATION JOINTS WITHIN FOOTPATH PAVEMENT REFER TO CITY OF RYDE STANDARD DRAWING JOINT TYPES PV3.3

Issue	Description	Date
E	ISSUED FOR APPROVAL	19-02-20
D	ISSUED FOR APPROVAL	07-02-20
C	ISSUED FOR APPROVAL	20-01-20
B	ISSUED FOR APPROVAL	12-12-19
A	ISSUED FOR APPROVAL	26-11-19

Status		FOR APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION				
Scale	16-428-CC050.dwg			
Scale	1 : 200	Drawn	GJ	
		Designed	GJ	
Height Datum	AHD	Checked	AT	
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Project
STAGE 1
112 - 118 TALAVERA ROAD
MACQUARIE PARK

Title
PAVEMENT PLAN

Drawing No.	Project No.	Issue
16-428-CC050	16-428	E