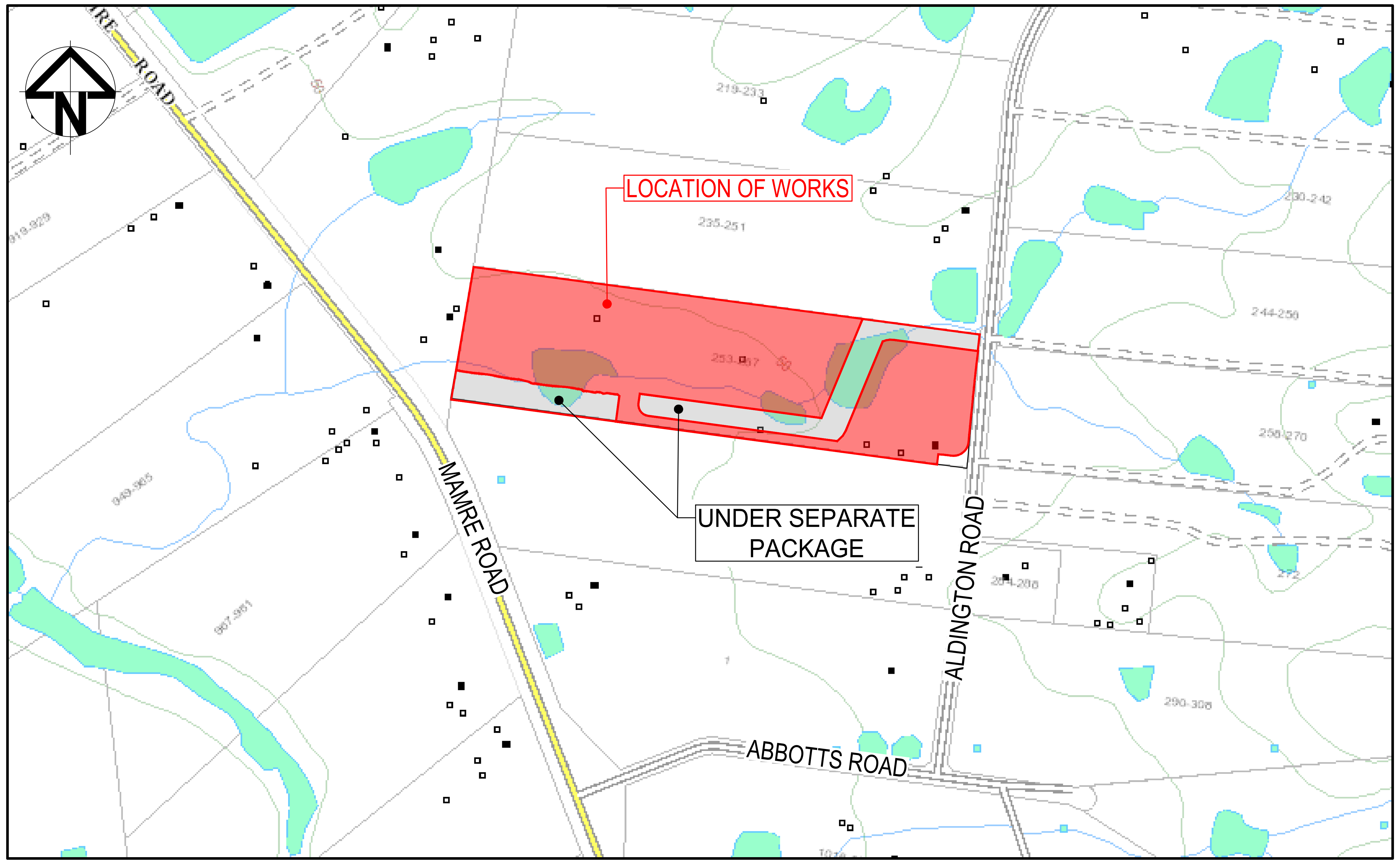
253-267 ALDINGTON ROAD,
KEMPS CREEK

CIVIL INFRASTRUCTURE PACKAGE - CONSTRUCTION

STATE SIGNIFICANT DEVELOPMENT APPLICATION

SSD-23480429

THESE DRAWINGS MUST READ IN CONJUNCTION WITH ITT, THE RELEVANT SYDNEY WATER, COUNCIL CONSTRUCTION SPECIFICATIONS, AUSTRALIAN STANDARDS AND AUTHORITY GUIDELINES.


N
MAMRE ROAD
ALDINGTON ROAD
ABBOTTS ROAD
LOCATION OF WORKS
UNDER SEPARATE PACKAGE
219-233
235-251
253-267
230-242
244-256
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LOCALITY PLAN

NOT TO SCALE

NOTE:
1. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
    - 2000 SERIES - TRUNK DRAINAGE
    - 3000 SERIES - EROSION AND AND SEDIMENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

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Client
ICON
OCEANIA

Scales NTS
Grid MGA2020
Height Datum AHD
GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
COVER SHEET

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1000

Issue
B

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DRAWING LIST

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21-860-C1000	COVER SHEET
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21-860-C1002	GENERAL NOTES
21-860-C1003	EXISTING SITE PLAN
21-860-C1004	GENERAL ARRANGEMENT PLAN
21-860-C1010	TYPICAL ROAD SECTIONS
21-860-C1015	TYPICAL SITE SECTIONS SHEET 1
21-860-C1016	TYPICAL SITE SECTIONS SHEET 2
21-860-C1017	TYPICAL SITE SECTIONS SHEET 3
21-860-C1020	SITEWORKS DETAILS SHEET 1
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21-860-C1022	SITEWORKS DETAILS SHEET 3
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GDA2020

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253-267 ALDINGTON RD
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DRAWING LIST

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A1

Project - Drawing No.
21-860-C1001

Issue
B

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SITEWORKS NOTES

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 TfNSW SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TfNSW FORM 3051 (UNBOUND), TfNSW 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 50m OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TfNSW 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 50m^3 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 TfNSW FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE SUPERINTENDENT.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM THE SUPERINTENDENT. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. 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.
13. ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN TRANSGRIDS' EASEMENT TO COMPLY WITH TRANSGRIDS' GUIDELINES AND REQUIREMENTS.
14. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCILS' ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY BOXALL SURVEYORS, 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.

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.

NOTES
1. THE BOUNDARIES HAVE APP0ROXIMATELY BEEN SURVEYED IN ACCORDANCE WITH CLAUSE 9 OF THE SURVEYING & SPATIAL INFORMATION REGULATION 2017. SURVEY CONTROL WILL BE PROVIDED BY THE PRINCIPAL PRIOR TO WORKS COMMENCING ON SITE
2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY NSW LAND REGISTRY SERVICES AND ARE SUBJECT TO FINAL SURVEY
3. ORIGIN OF COORDINATES HAS BEEN DERIVED USING GPS (GNSS) SURVEY FROM PM33561
4. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM TBC. IN MAMRE ROAD USING GPS (GNSS) SURVEY METHODS.
5. CONTOUR INTERVAL 0.5m
6. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
7. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
8. 8/.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX. HEIGHT OF 7m
9. SHOWS APPROXIMATE POSITION OF ROAD LINEMARKING AND IS INDICATIVE ONLY
10. BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

DEWATERING

1. IF REQUIRED ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

EXISTING UNDERGROUND SERVICES

1. 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.
2. 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.
3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
5. 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.
6. PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
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 FCC MP AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGOG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (CASE SPECIFICATION) TYPE SQL

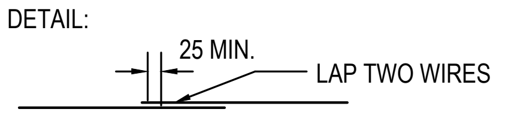
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

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 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH TfNSW 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
SQL 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 SQL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



EARTHWORKS NOTES

1. WHERE EARTHWORKS ARE TO BE CONSTRUCTED ON OR AGAINST ANY EMBANKMENTS OR AGAINST ANY SLOPES AND THE EMBANKMENT/SLOPE IS STEEPER THAN 10(H):1(V) IN ANY DIRECTION, THE CONTRACTOR SHALL CUT TERRACES INTO THE SLOPE TO A MINIMUM DEPTH OF 300mm, EXCEPT WHERE SLOPES ARE STEEPER THAN 4(H):1(V) WHERE MINIMUM DEPTH SHALL BE 600mm TO ALLOW ADEQUATE KEY AND COMPACTION OF MATERIAL.
2. THE CONTRACTOR SHALL PRODUCE A MATERIAL TRACKING REGISTER FOR ALL IMPORT AND EXPORT MATERIAL INCLUDING DEMOLITION WASTE. FOR INSTANCES WHERE CONTAMINATED MATERIAL IS EXPORTED FROM THE SITE THE CONTRACTOR SHALL ENSURE A CHAIN OF CUSTODY REPORT AND CERTIFICATES ARE PROVIDED FOR THE CONTAMINATED MATERIAL. TIP DOCKETS TO BE MADE AVAILABLE UPON REQUEST. BULKING FACTOR TO BE PROVEN WITH GEOTECHNICAL TESTING.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA (AS PER PENRITH CITY COUNCIL DESIGN GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS)
(A) AVERAGE RECURRENCE INTERVAL:
'MAJOR' SYSTEM (OVERLAND FLOW): 1% AEP
'MINOR' SYSTEM (PIT AND PIPE NETWORK): 5% AEP
(B) DESIGN RAINFALL INTENSITIES FROM BOM DESIGN RAINFALL DATA SYSTEM (2016) (LAT. -33.845, LON. 150.793).
INTENSITIES FOR 5 MINUTE DURATION EVENT:
1% AEP: 244mm/hr
5% AEP: 182mm/hr
(C) HYDROLOGICAL MODEL: ILSAX (FOR URBAN CATCHMENTS) AND RAFTS (FOR UNDEVELOPED / RURAL CATCHMENTS)
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS '4' U.N.O..
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.
5. PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 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)
6. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES AND ON APPROVED ADJOINING NEIGHBOURS WORK ZONES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
7. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
8. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
9. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL OF SUPERINTENDENT.
10. GRATES AND COVERS SHALL CONFORM TO AS 3996 AND PENRITH CITY COUNCIL CONSTRUCTION SPECIFICATIONS.
11. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
12. 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.
13. ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE STORMWATER DETAILS AND SPECIFICATIONS UNLESS APPROVED BY THE SUPERINTENDENT / PENRITH CITY COUNCIL. IF APPROVED AND IN ADDITION TO THE SPECIFICATION;

A. ALL PRE-CAST PITS ARE TO BE STRUCTURALLY CERTIFIED TO MEET RELEVANT AUSTRALIAN STANDARDS (AS3600, AS3996).
B. ALL PRECAST PITS TO BE FOUNDED ON CONCRETE BLINDING LAYER WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100kPa UP TO 3.0m DEPTH TO INVERT AND 150kPa FROM 3.0m TO 6.0m DEPTH TO INVERT (MINIMUM 100mm THICK 25MPa OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED).
C. PRE-CAST STORMWATER PITS ARE TO BE CUSTOM MADE WITH OPENINGS WITHIN +50mm OD OF PIPE, HEIGHTS AND PIPE PENETRATIONS DURING MANUFACTURE. ANY ADDITIONAL PENETRATIONS SHALL BE CORE DRILLED AND STEEL BLOWN OUT TO MANUFACTURERS REQUIREMENTS IF REQUIRED.
D. DEMOLITION SAWS ARE NOT TO BE USED IN ANY CIRCUMSTANCES.
E. SINGLE UNITS PREFERRED BUT IF REQUIRED MINIMUM RISER DEPTH 600mm PIT INSTALLATION AND JOINTING PIPES TO PITS SHALL BE UNDERTAKEN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
F. ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDENT / PENRITH CITY COUNCIL.
G. ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL.
H. PIPE JOINTING/SEALING OF PIPE PENETRATION TO BE WITH A NON-SHRINK MORTAR MIX e.g. LANKO 702 DURABED OR SIMILAR APPROVED.
I. SUBSOIL DRAINAGE FLUSHING AND/OR INTERMEDIATE RISERS TO BE INSTALLED AT 40m CENTRES AND AT ALL UPSTREAM ENDPOINTS
J. ANY ADDITIONAL PENETRATIONS TO ANY STRUCTURAL CONCRETE (e.g. STORMWATER PITS, CULVERTS, HEADWALLS ETC.) SHALL BE CORE DRILLED AND STEEL BLOWN OUT TO MANUFACTURERS REQUIREMENTS, IF REQUIRED.

KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. 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.
4. 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.
5. BROOM FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :-
IF REQUIRED EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE 10000 SERIES OF DRAWINGS
2. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING AT&L AS THE SUITABLY QUALIFIED EROSION AND SEDIMENT CONSULTANT FOR THE DURATION OF THE CONTRACT TO DESIGN AND DOCUMENT ADDITIONAL STAGING EROSION AND SEDIMENT CONTROLS. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR REQUIRED TO SUIT THE CONSTRUCTION STAGING
3. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
   b. LOCAL AUTHORITY REQUIREMENTS
   c. EPA REQUIREMENTS
4. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
5 .WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
6. 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

7. WHERE PRACTICAL THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END WORKS SHOULD BE UNDERTAKEN / INSTALLED AS DIRECTED BY THE CONTRACTORS EROSION AND SEDIMENT CONTROL CONSULTANT.
8 LARGE UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
9. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
10. 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.
11. 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.
12. 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.
13. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

14. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

STAGING

15. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, THROUGHOUT THE FULL TERM OF THE CONTRACT, WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH CITY COUNCILS ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING, INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS REQUIRED TO SUIT THE SELECTED CONSTRUCTION STAGING. THIS IS TO BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND THEIR EROSION AND SEDIMENT CONSULTANT AND PROVIDED TO THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.
16. SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT, PENRITH CITY COUNCILS SPECIFICATIONS AND THE OFFICE OF ENVIRONMENT AND HERITAGES 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION, LANDCOM (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK") VOLUME 1 AND VOLUME 2 AND THE CEMP.

EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SHOW ANY FAILURE THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER TO DETERMINE THE CAUSE AND METHOD OF RECTIFICATION
4. COMPACT CLAY STABILISED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILISED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL. LANDSCAPING TO BE MAINTAINED FOR 24 MONTHS TO ENSURE ESTABLISHMENT.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

DECOMMISSIONING / DEMOLITION

1. EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.
2. DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).
3. ALL EXISTING SERVICES (INCLUDING SEPTIC TANKS) SHALL BE REMOVED FROM SITE.
4. ALL UNDERGROUND CABLES AND PIPES SHALL BE GRUBBED OUT AND CAPPED AT THE BOUNDARY OF THE SITE.
5. ALL OVERHEAD SERVICES SHALL BE REMOVED FROM WITHIN THE SITE BOUNDARY AND MADE SAFE AT THE TERMINATION LOCATION. ANY POLES SHALL BE REMOVED FROM THE SITE.
6. ALL EXISTING SERVICES TO BE CONSIDERED AS LIVE UNTIL THE CONTRACTOR HAS TESTED AND CONFIRMED TO THE SUPERINTENDENT THAT THE SERVICES ARE DEAD / REDUNDANT.

DESIGN & CERTIFICATION REQUIREMENTS

1. THE CONTRACTOR IS TO PROVIDE STRUCTURAL CERTIFICATION ON ALL STRUCTURAL ELEMENTS INCLUDING DESIGN CERTIFICATION AND FINAL CONSTRUCTION CERTIFICATION.
THIS INCLUDES:
* ALL RETAINING WALLS
* CULVERTS INCLUDING BASE SLABS
* HEADWALLS
* STORMWATER STRUCTURES INCLUDING STORMWATER PITS
ALL STRUCTURAL CERTIFICATES MUST BE PROVIDED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER.

CONSTRUCTION SPECIFICATION

1. THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH PENRITH CITY COUNCILS' 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. THE PENRITH CITY COUNCILS' SPECIFICATION TAKES PRECEDENCE
3. REFER PELLS SULLIVAN MEYNINK REPORT REV 6 (DATED) FOR BULK EARTHWORKS SPECIFICATIONS.
4. REFER COCO DESIGN LANDSCAPE SPECIFICATION (CURRENT REVISION) FOR LANDSCAPE SPECIFICATION.

BEFORE YOU DIG
www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

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Client
ICON
OCEANIA

Scales	NTS	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
GENERAL NOTES

Civil Engineers and Project Managers
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1002

Issue
B

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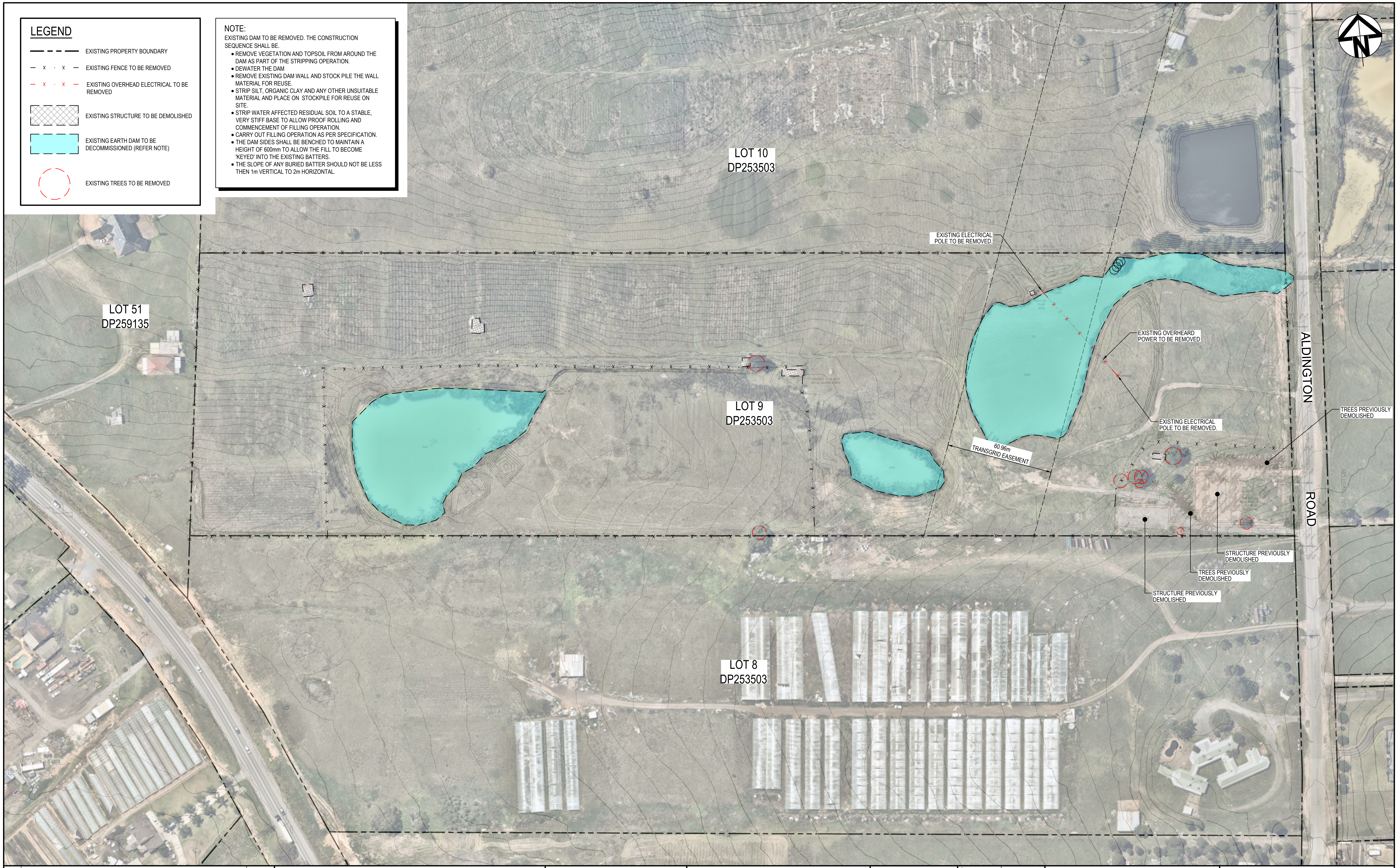
LOT 10
DP253503
LOT 51
DP259135
LOT 9
DP253503
LOT 8
DP253503
EXISTING ELECTRICAL POLE TO BE REMOVED.
EXISTING OVERHEARD POWER TO BE REMOVED
EXISTING ELECTRICAL POLE TO BE REMOVED.
60.96m TRANSGRID EASEMENT
TREES PREVIOUSLY DEMOLISHED
STRUCTURE PREVIOUSLY DEMOLISHED
TREES PREVIOUSLY DEMOLISHED
STRUCTURE PREVIOUSLY DEMOLISHED
ALDINGTON
ROAD
N

LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING FENCE TO BE REMOVED
- EXISTING OVERHEAD ELECTRICAL TO BE REMOVED
- EXISTING STRUCTURE TO BE DEMOLISHED
- EXISTING EARTH DAM TO BE DECOMMISSIONED (REFER NOTE)
- EXISTING TREES TO BE REMOVED

NOTE:

EXISTING DAM TO BE REMOVED. THE CONSTRUCTION SEQUENCE SHALL BE.

- REMOVE VEGETATION AND TOPSOIL FROM AROUND THE DAM AS PART OF THE STRIPPING OPERATION.
- DEWATER THE DAM
- REMOVE EXISTING DAM WALL AND STOCK PILE THE WALL MATERIAL FOR REUSE.
- STRIP SILT, ORGANIC CLAY AND ANY OTHER UNSUITABLE MATERIAL AND PLACE ON STOCKPILE FOR REUSE ON SITE.
- STRIP WATER AFFECTED RESIDUAL SOIL TO A STABLE, VERY STIFF BASE TO ALLOW PROOF ROLLING AND COMMENCEMENT OF FILLING OPERATION.
- CARRY OUT FILLING OPERATION AS PER SPECIFICATION.
- THE DAM SIDES SHALL BE BENCHED TO MAINTAIN A HEIGHT OF 600mm TO ALLOW THE FILL TO BECOME 'KEYED' INTO THE EXISTING BATTERS.
- THE SLOPE OF ANY BURIED BATTER SHOULD NOT BE LESS THEN 1m VERTICAL TO 2m HORIZONTAL.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
EXISTING SITE
PLAN

Civil Engineers and Project Managers

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1003

Issue
B

100mm on Original

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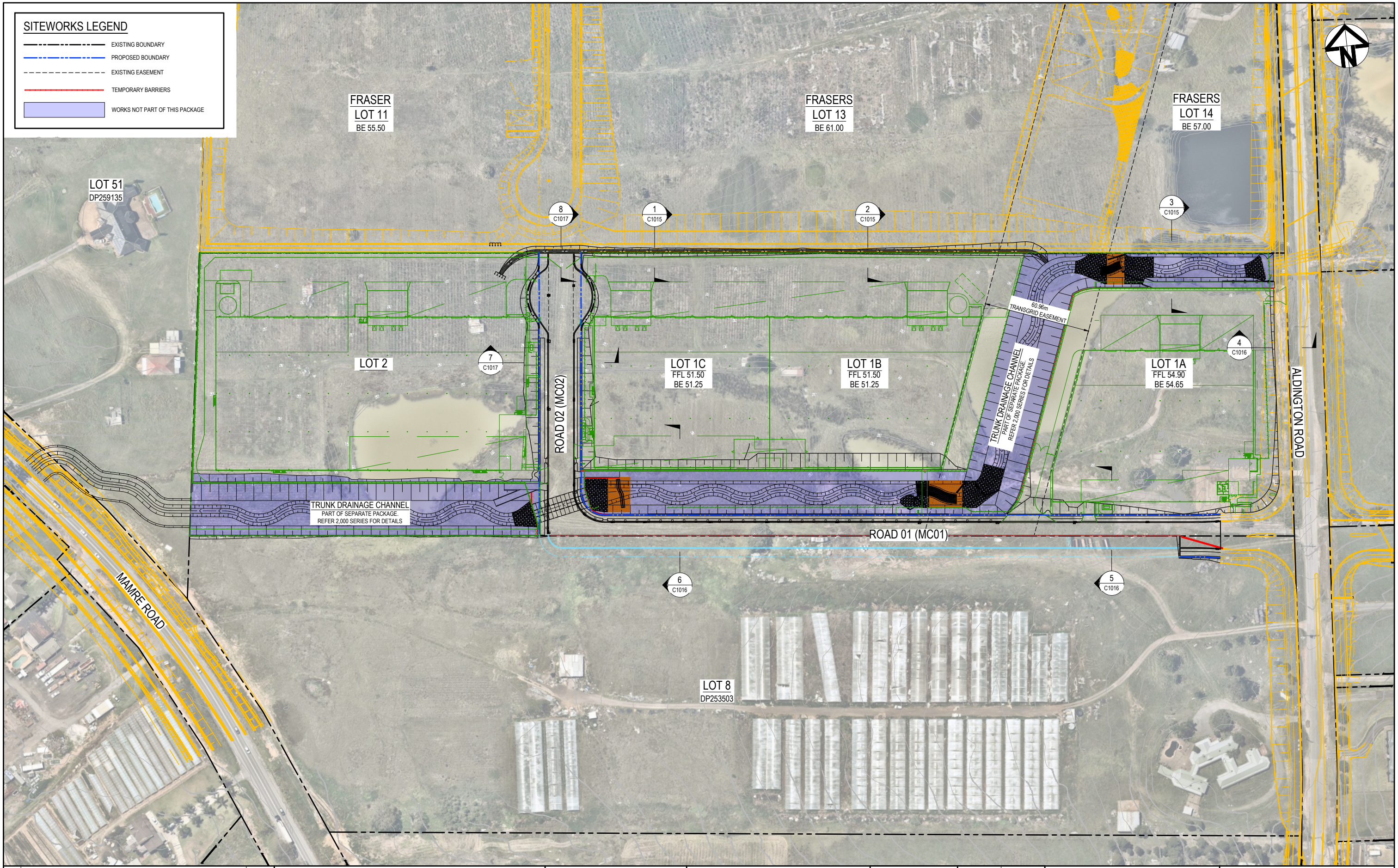
FRASER
LOT 11
BE 55.50
FRASERS
LOT 13
BE 61.00
FRASERS
LOT 14
BE 57.00
LOT 51
DP259135
8 C1017
1 C1015
2 C1015
3 C1015
4 C1016
5 C1016
6 C1016
7 C1017
LOT 2
LOT 1C
FFL 51.50
BE 51.25
LOT 1B
FFL 51.50
BE 51.25
LOT 1A
FFL 54.90
BE 54.65
60.96m
TRANSGRID EASEMENT
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE
REFER 2,000 SERIES FOR DETAILS
ROAD 02 (MC02)
ROAD 01 (MC01)
ALDINGTON ROAD
MAMRE ROAD
LOT 8
DP253503
N

SITEWORKS LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- EXISTING EASEMENT
- TEMPORARY BARRIERS
- ▨ WORKS NOT PART OF THIS PACKAGE

Issue	Description	Date
C	ISSUED FOR APPROVAL	02-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

100mm on Original

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Client

ICON
OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

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Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1004

Issue
C

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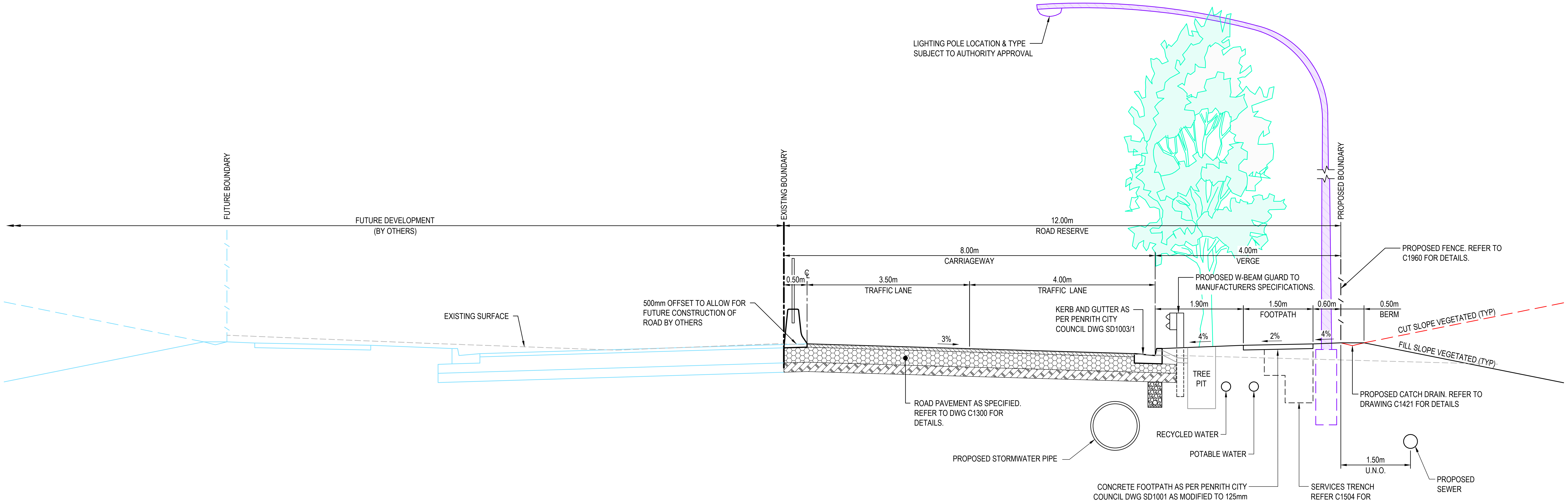
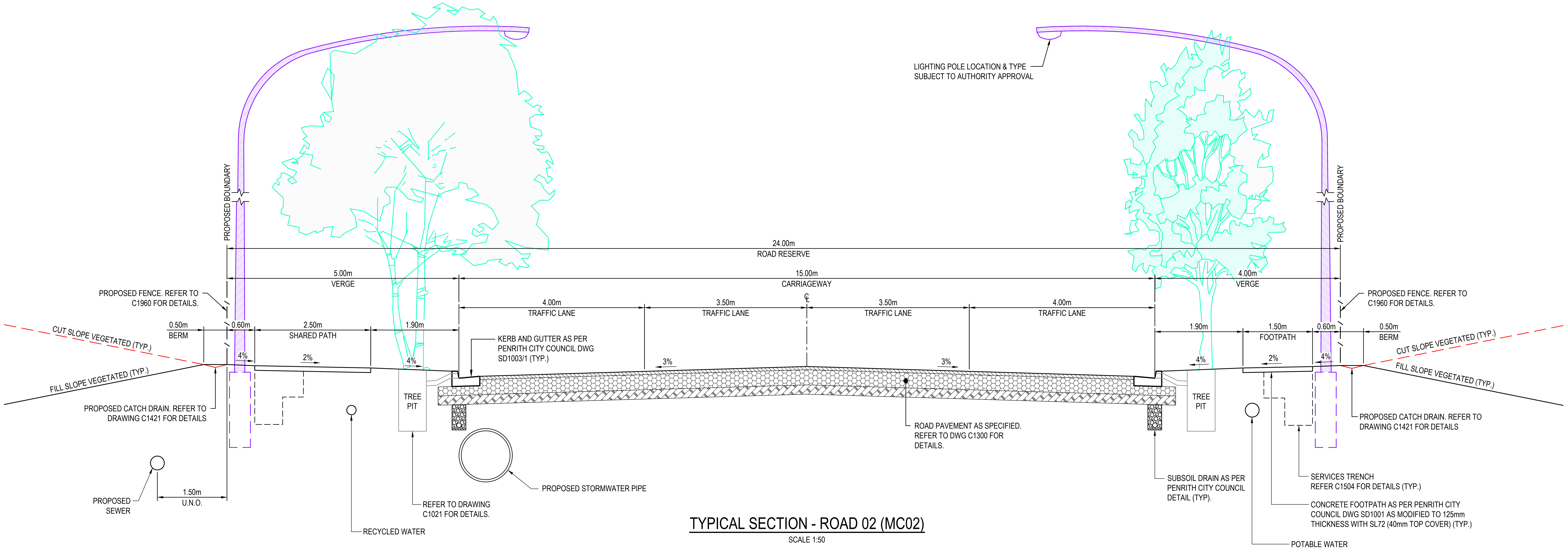

LIGHTING POLE LOCATION & TYPE
SUBJECT TO AUTHORITY APPROVAL
FUTURE BOUNDARY
EXISTING BOUNDARY
PROPOSED BOUNDARY
FUTURE DEVELOPMENT
(BY OTHERS)
12.00m
ROAD RESERVE
8.00m
CARRIAGEWAY
4.00m
VERGE
PROPOSED FENCE. REFER TO
C1960 FOR DETAILS.
0.50m
℄
3.50m
TRAFFIC LANE
4.00m
TRAFFIC LANE
PROPOSED W-BEAM GUARD TO
MANUFACTURERS SPECIFICATIONS.
1.90m
1.50m
FOOTPATH
0.60m
0.50m
BERM
EXISTING SURFACE
500mm OFFSET TO ALLOW FOR
FUTURE CONSTRUCTION OF
ROAD BY OTHERS
KERB AND GUTTER AS
PER PENRITH CITY
COUNCIL DWG SD1003/1
CUT SLOPE VEGETATED (TYP)
FILL SLOPE VEGETATED (TYP)
3%
4%
2%
4%
TREE
PIT
ROAD PAVEMENT AS SPECIFIED.
REFER TO DWG C1300 FOR
DETAILS.
PROPOSED CATCH DRAIN. REFER TO
DRAWING C1421 FOR DETAILS
RECYCLED WATER
POTABLE WATER
PROPOSED STORMWATER PIPE
1.50m
U.N.O.
PROPOSED
SEWER
CONCRETE FOOTPATH AS PER PENRITH CITY
COUNCIL DWG SD1001 AS MODIFIED TO 125mm
THICKNESS WITH SL72 (40mm TOP COVER) (TYP).
SERVICES TRENCH
REFER C1504 FOR
DETAILS (TYP.)

TYPICAL SECTION - ROAD 01 (MC01)

SCALE 1:50


LIGHTING POLE LOCATION & TYPE
SUBJECT TO AUTHORITY APPROVAL
PROPOSED BOUNDARY
PROPOSED BOUNDARY
24.00m
ROAD RESERVE
5.00m
VERGE
15.00m
CARRIAGEWAY
4.00m
VERGE
PROPOSED FENCE. REFER TO
C1960 FOR DETAILS.
PROPOSED FENCE. REFER TO
C1960 FOR DETAILS.
4.00m
TRAFFIC LANE
3.50m
TRAFFIC LANE
℄
3.50m
TRAFFIC LANE
4.00m
TRAFFIC LANE
0.50m
BERM
0.60m
2.50m
SHARED PATH
1.90m
KERB AND GUTTER AS PER
PENRITH CITY COUNCIL DWG
SD1003/1 (TYP.)
1.90m
1.50m
FOOTPATH
0.60m
0.50m
BERM
CUT SLOPE VEGETATED (TYP.)
FILL SLOPE VEGETATED (TYP.)
CUT SLOPE VEGETATED (TYP.)
FILL SLOPE VEGETATED (TYP.)
4%
2%
4%
3%
3%
4%
2%
4%
TREE
PIT
TREE
PIT
PROPOSED CATCH DRAIN. REFER TO
DRAWING C1421 FOR DETAILS
ROAD PAVEMENT AS SPECIFIED.
REFER TO DWG C1300 FOR
DETAILS.
PROPOSED CATCH DRAIN. REFER TO
DRAWING C1421 FOR DETAILS
PROPOSED
SEWER
1.50m
U.N.O.
PROPOSED STORMWATER PIPE
REFER TO DRAWING
C1021 FOR DETAILS.
RECYCLED WATER
SUBSOIL DRAIN AS PER
PENRITH CITY COUNCIL
DETAIL (TYP).
SERVICES TRENCH
REFER C1504 FOR DETAILS (TYP.)
CONCRETE FOOTPATH AS PER PENRITH CITY
COUNCIL DWG SD1001 AS MODIFIED TO 125mm
THICKNESS WITH SL72 (40mm TOP COVER) (TYP.)
POTABLE WATER

TYPICAL SECTION - ROAD 02 (MC02)

SCALE 1:50

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

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Client

ICON
OCEANIA

Scales	1:50	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
TYPICAL ROAD
SECTIONS

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1010

Issue
B

100mm on Original

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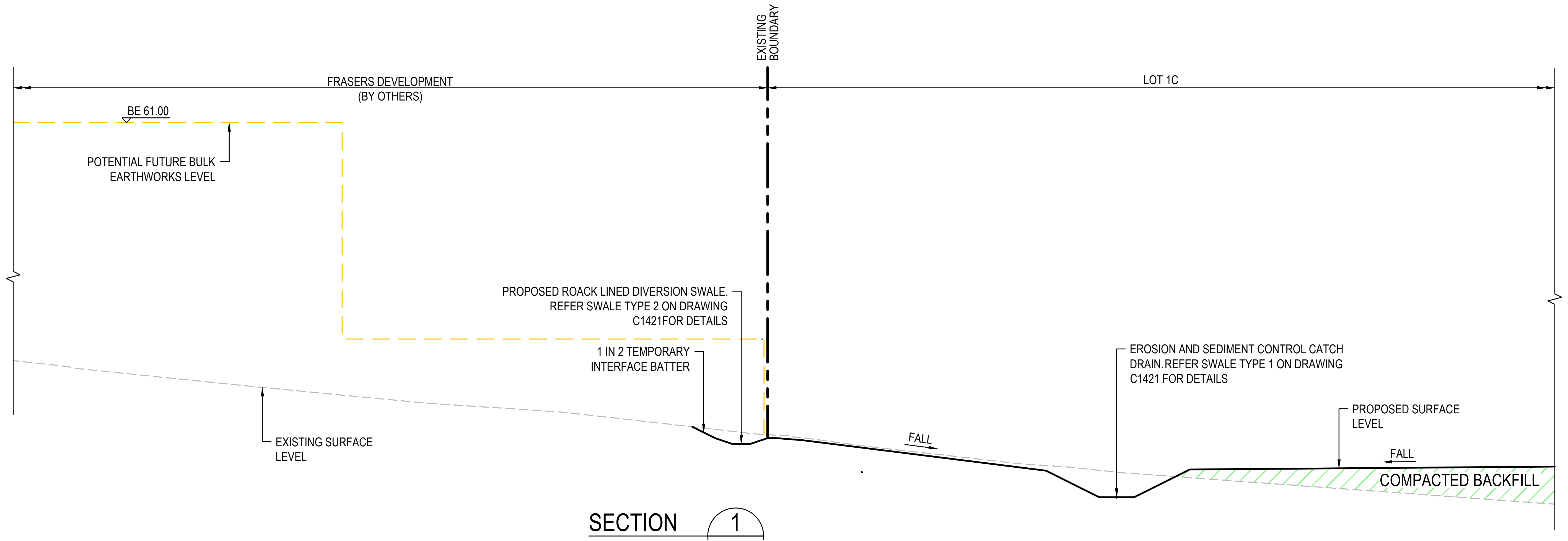
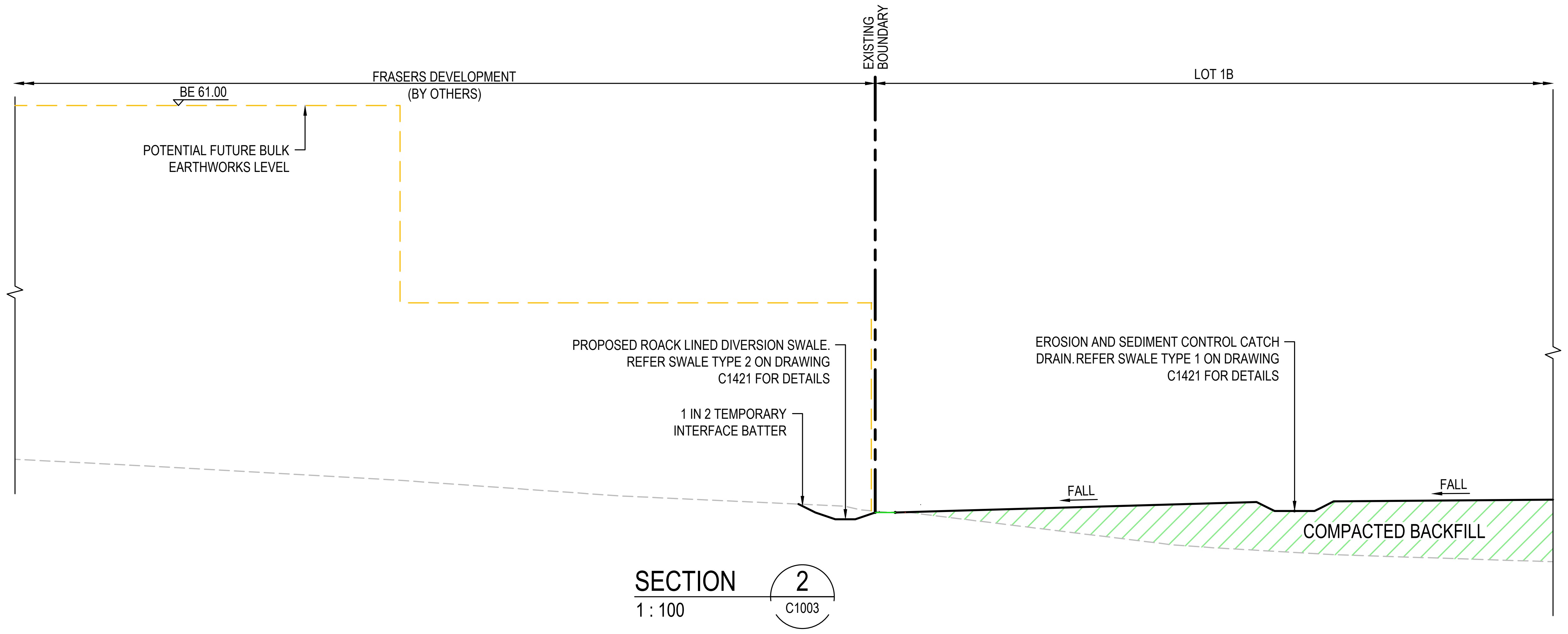
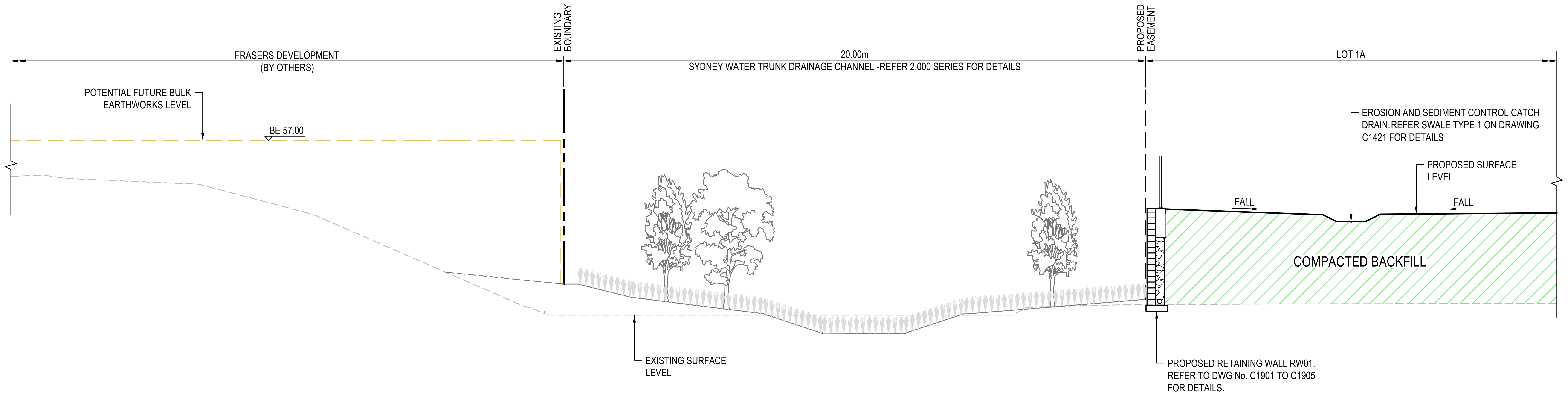

EXISTING BOUNDARY
FRASERS DEVELOPMENT (BY OTHERS)
LOT 1C
BE 61.00
POTENTIAL FUTURE BULK EARTHWORKS LEVEL
PROPOSED ROACK LINED DIVERSION SWALE. REFER SWALE TYPE 2 ON DRAWING C1421FOR DETAILS
1 IN 2 TEMPORARY INTERFACE BATTER
EROSION AND SEDIMENT CONTROL CATCH DRAIN.REFER SWALE TYPE 1 ON DRAWING C1421 FOR DETAILS
PROPOSED SURFACE LEVEL
FALL
FALL
COMPACTED BACKFILL
EXISTING SURFACE LEVEL

SECTION 1
1 : 100 C1003


EXISTING BOUNDARY
FRASERS DEVELOPMENT (BY OTHERS)
LOT 1B
BE 61.00
POTENTIAL FUTURE BULK EARTHWORKS LEVEL
PROPOSED ROACK LINED DIVERSION SWALE. REFER SWALE TYPE 2 ON DRAWING C1421 FOR DETAILS
1 IN 2 TEMPORARY INTERFACE BATTER
EROSION AND SEDIMENT CONTROL CATCH DRAIN.REFER SWALE TYPE 1 ON DRAWING C1421 FOR DETAILS
FALL
FALL
COMPACTED BACKFILL

SECTION 2
1 : 100 C1003


EXISTING BOUNDARY
PROPOSED EASEMENT
FRASERS DEVELOPMENT (BY OTHERS)
20.00m
SYDNEY WATER TRUNK DRAINAGE CHANNEL -REFER 2,000 SERIES FOR DETAILS
LOT 1A
POTENTIAL FUTURE BULK EARTHWORKS LEVEL
BE 57.00
EROSION AND SEDIMENT CONTROL CATCH DRAIN.REFER SWALE TYPE 1 ON DRAWING C1421 FOR DETAILS
PROPOSED SURFACE LEVEL
FALL
FALL
COMPACTED BACKFILL
EXISTING SURFACE LEVEL
PROPOSED RETAINING WALL RW01. REFER TO DWG No. C1901 TO C1905 FOR DETAILS.

SECTION 3
1 : 100 C1003

NOTE:
- REFER TO DRAWING No. C1421 FOR TYPICAL CATCH DRAIN DETAIL.
- ANY PROPOSED WORKS OVER THE SITE BOUNDARY IS SUBJECT TO OWNERS CONSENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client
ICON OCEANIA

Scales	1:100	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
TYPICAL SITE
SECTIONS
SHEET 1

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1015

Issue
B

100mm on Original

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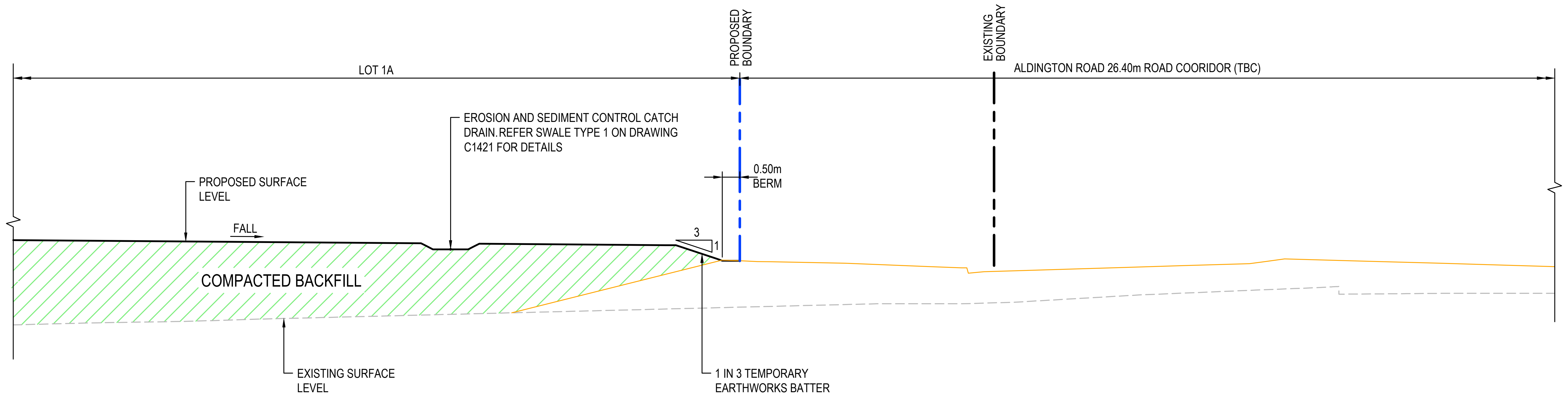
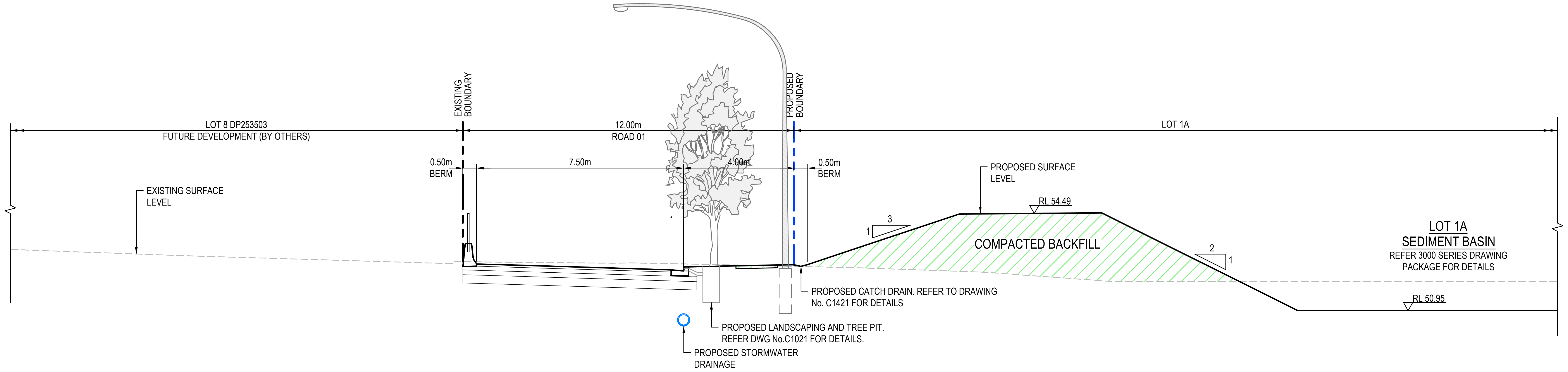
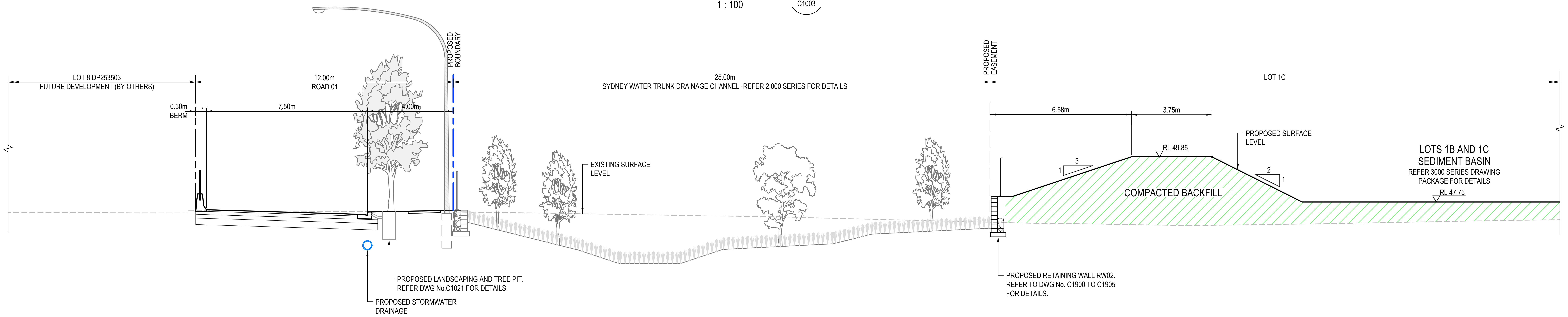

PROPOSED BOUNDARY
EXISTING BOUNDARY
LOT 1A
ALDINGTON ROAD 26.40m ROAD COORIDOR (TBC)
EROSION AND SEDIMENT CONTROL CATCH DRAIN. REFER SWALE TYPE 1 ON DRAWING C1421 FOR DETAILS
PROPOSED SURFACE LEVEL
0.50m BERM
FALL
3
1
COMPACTED BACKFILL
EXISTING SURFACE LEVEL
1 IN 3 TEMPORARY EARTHWORKS BATTER

SECTION 4
1 : 100
C1003


EXISTING BOUNDARY
PROPOSED BOUNDARY
LOT 8 DP253503
FUTURE DEVELOPMENT (BY OTHERS)
12.00m
ROAD 01
LOT 1A
0.50m BERM
7.50m
4.00m
0.50m BERM
EXISTING SURFACE LEVEL
PROPOSED SURFACE LEVEL
RL 54.49
3
1
COMPACTED BACKFILL
2
1
LOT 1A
SEDIMENT BASIN
REFER 3000 SERIES DRAWING PACKAGE FOR DETAILS
RL 50.95
PROPOSED CATCH DRAIN. REFER TO DRAWING No. C1421 FOR DETAILS
PROPOSED LANDSCAPING AND TREE PIT. REFER DWG No.C1021 FOR DETAILS.
PROPOSED STORMWATER DRAINAGE

SECTION 5
1 : 100
C1003


PROPOSED BOUNDARY
PROPOSED EASEMENT
LOT 8 DP253503
FUTURE DEVELOPMENT (BY OTHERS)
12.00m
ROAD 01
25.00m
SYDNEY WATER TRUNK DRAINAGE CHANNEL -REFER 2,000 SERIES FOR DETAILS
LOT 1C
0.50m BERM
7.50m
4.00m
6.58m
3.75m
PROPOSED SURFACE LEVEL
EXISTING SURFACE LEVEL
RL 49.85
3
1
2
1
COMPACTED BACKFILL
LOTS 1B AND 1C
SEDIMENT BASIN
REFER 3000 SERIES DRAWING PACKAGE FOR DETAILS
RL 47.75
PROPOSED LANDSCAPING AND TREE PIT. REFER DWG No.C1021 FOR DETAILS.
PROPOSED STORMWATER DRAINAGE
PROPOSED RETAINING WALL RW02. REFER TO DWG No. C1900 TO C1905 FOR DETAILS.

SECTION 6
1 : 100
C1003

NOTE:
- REFER TO DRAWING No. C1421 FOR TYPICAL CATCH DRAIN DETAIL.
- ANY PROPOSED WORKS OVER THE SITE BOUNDARY IS SUBJECT TO OWNERS CONSENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

100mm on Original

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Client
ICON
OCEANIA

Scales	1:100	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
TYPICAL SITE
SECTIONS
SHEET 2

Civil Engineers and Project Managers
at&l
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1016

Issue
B

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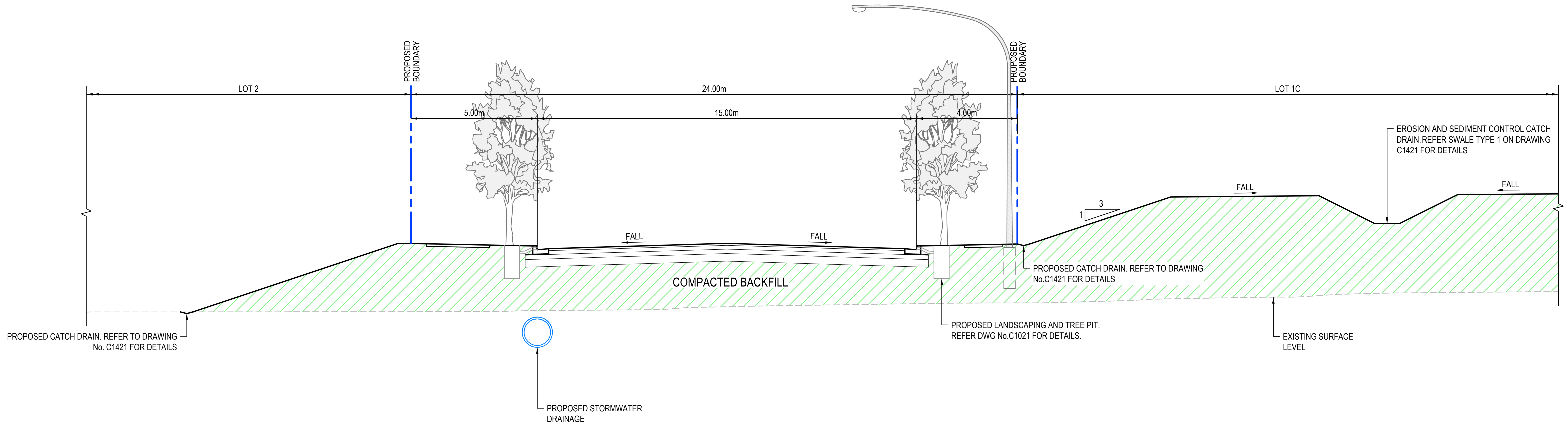
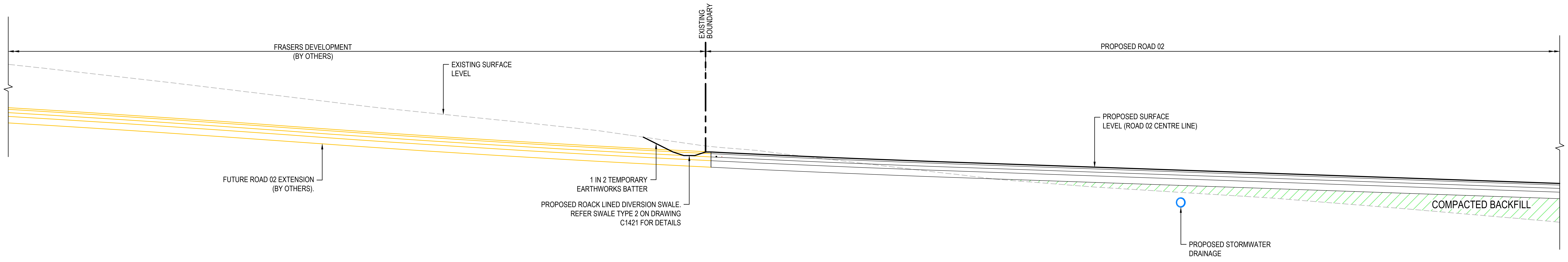

PROPOSED BOUNDARY
PROPOSED BOUNDARY
LOT 2
24.00m
LOT 1C
5.00m
15.00m
4.00m
FALL
FALL
FALL
FALL
FALL
3
1
EROSION AND SEDIMENT CONTROL CATCH DRAIN. REFER SWALE TYPE 1 ON DRAWING C1421 FOR DETAILS
COMPACTED BACKFILL
PROPOSED CATCH DRAIN. REFER TO DRAWING No.C1421 FOR DETAILS
PROPOSED CATCH DRAIN. REFER TO DRAWING No. C1421 FOR DETAILS
PROPOSED LANDSCAPING AND TREE PIT. REFER DWG No.C1021 FOR DETAILS.
EXISTING SURFACE LEVEL
PROPOSED STORMWATER DRAINAGE

SECTION 7
1 : 100
C1003


EXISTING BOUNDARY
FRASERS DEVELOPMENT (BY OTHERS)
PROPOSED ROAD 02
EXISTING SURFACE LEVEL
PROPOSED SURFACE LEVEL (ROAD 02 CENTRE LINE)
FUTURE ROAD 02 EXTENSION (BY OTHERS).
1 IN 2 TEMPORARY EARTHWORKS BATTER
PROPOSED ROACK LINED DIVERSION SWALE. REFER SWALE TYPE 2 ON DRAWING C1421 FOR DETAILS
COMPACTED BACKFILL
PROPOSED STORMWATER DRAINAGE

SECTION 8
1 : 100
C1003

NOTE:
- REFER TO DRAWING No. C1421 FOR TYPICAL CATCH DRAIN DETAIL.
- ANY PROPOSED WORKS OVER THE SITE BOUNDARY IS SUBJECT TO OWNERS CONSENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client
ICON
OCEANIA

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		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
TYPICAL SITE
SECTIONS
SHEET 3

Civil Engineers and Project Managers
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1017
Issue
B

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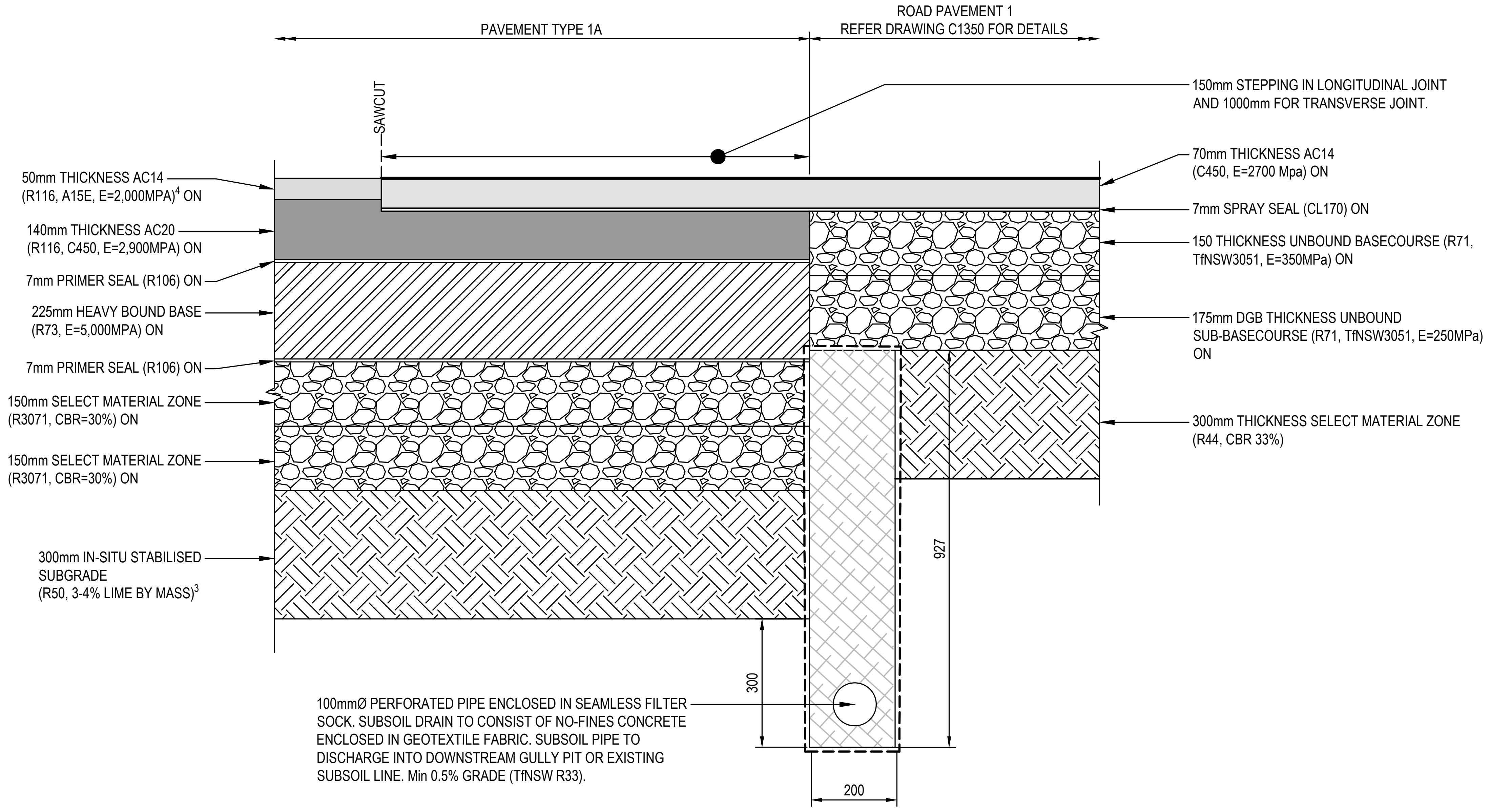
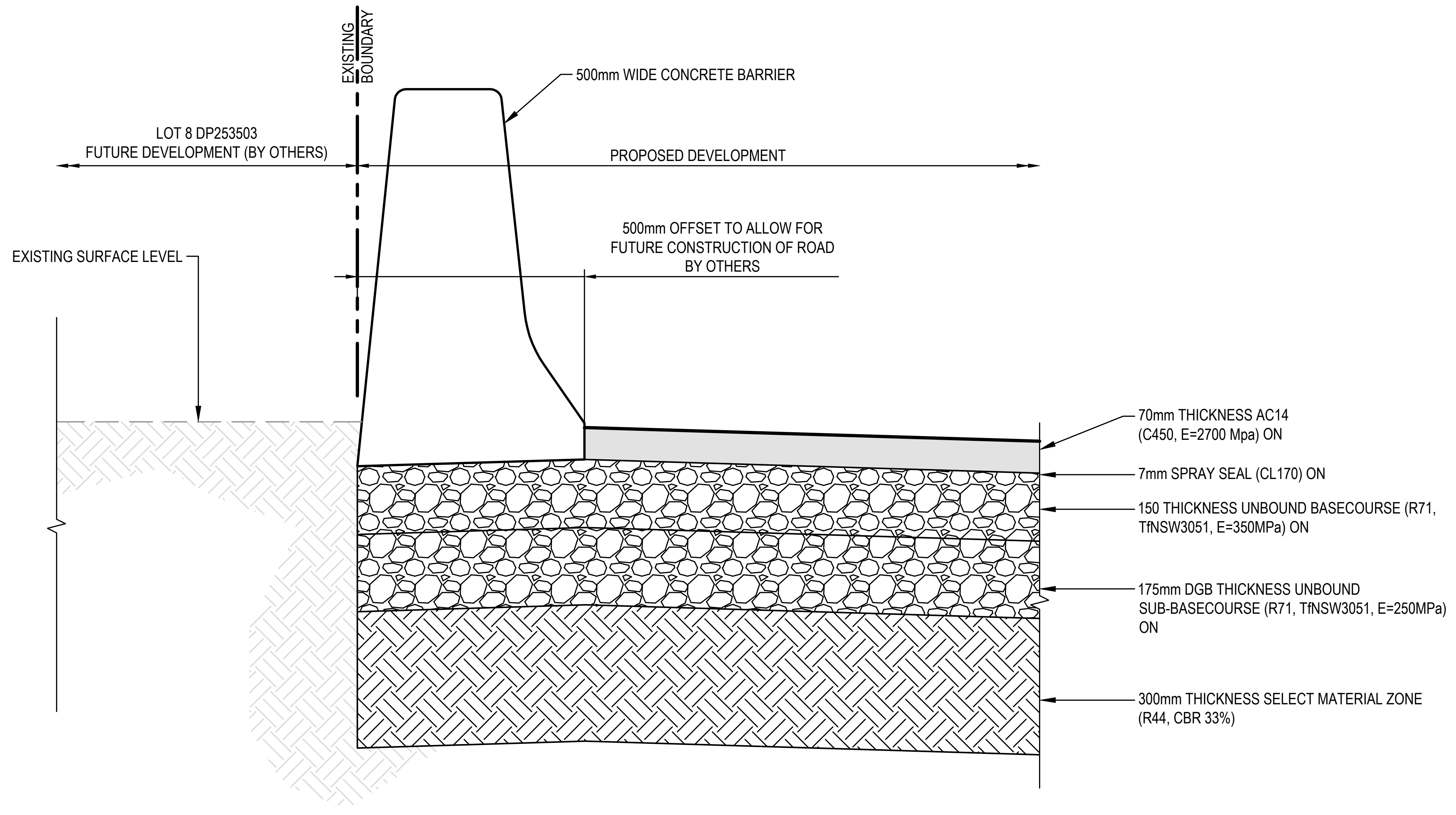
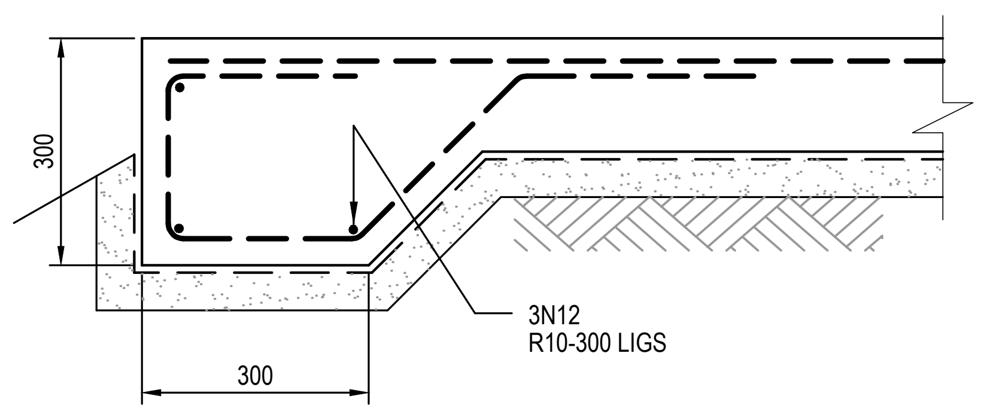

PAVEMENT TYPE 1A
ROAD PAVEMENT 1
REFER DRAWING C1350 FOR DETAILS
SAWCUT
150mm STEPPING IN LONGITUDINAL JOINT AND 1000mm FOR TRANSVERSE JOINT.
50mm THICKNESS AC14 (R116, A15E, E=2,000MPA)⁴ ON
140mm THICKNESS AC20 (R116, C450, E=2,900MPA) ON
7mm PRIMER SEAL (R106) ON
225mm HEAVY BOUND BASE (R73, E=5,000MPA) ON
7mm PRIMER SEAL (R106) ON
150mm SELECT MATERIAL ZONE (R3071, CBR=30%) ON
150mm SELECT MATERIAL ZONE (R3071, CBR=30%) ON
300mm IN-SITU STABILISED SUBGRADE (R50, 3-4% LIME BY MASS)³
70mm THICKNESS AC14 (C450, E=2700 Mpa) ON
7mm SPRAY SEAL (CL170) ON
150 THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON
175mm DGB THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON
300mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 33%)
927
300
200
100mmØ PERFORATED PIPE ENCLOSED IN SEAMLESS FILTER SOCK. SUBSOIL DRAIN TO CONSIST OF NO-FINES CONCRETE ENCLOSED IN GEOTEXTILE FABRIC. SUBSOIL PIPE TO DISCHARGE INTO DOWNSTREAM GULLY PIT OR EXISTING SUBSOIL LINE. Min 0.5% GRADE (TfNSW R33).

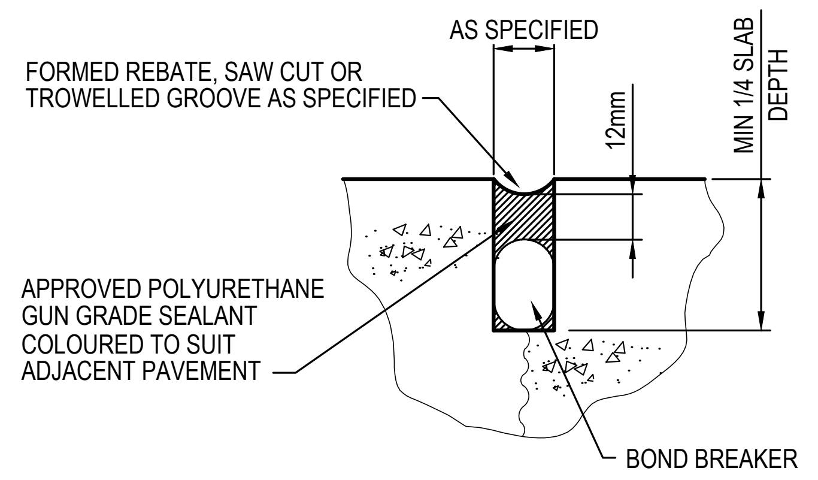
DETAIL 1
C1350
SCALE 1 : 10


EXISTING BOUNDARY
500mm WIDE CONCRETE BARRIER
LOT 8 DP253503
FUTURE DEVELOPMENT (BY OTHERS)
PROPOSED DEVELOPMENT
500mm OFFSET TO ALLOW FOR FUTURE CONSTRUCTION OF ROAD BY OTHERS
EXISTING SURFACE LEVEL
70mm THICKNESS AC14 (C450, E=2700 Mpa) ON
7mm SPRAY SEAL (CL170) ON
150 THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON
175mm DGB THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON
300mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 33%)

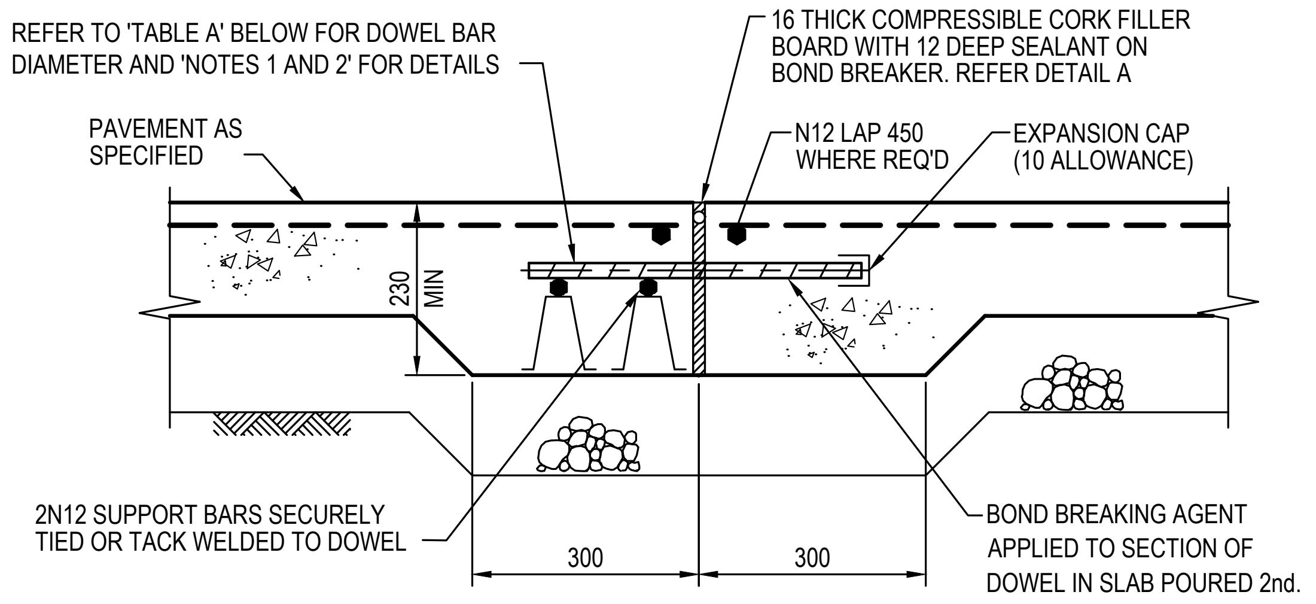
DETAIL 2
C1350, C1351
SCALE 1 : 10


300
300
3N12
R10-300 LIGS

THICKENED EDGE DETAIL (TE)
SCALE 1:20


AS SPECIFIED
FORMED REBATE, SAW CUT OR TROWELLED GROOVE AS SPECIFIED
12mm
MIN 1/4 SLAB DEPTH
APPROVED POLYURETHANE GUN GRADE SEALANT COLOURED TO SUIT ADJACENT PAVEMENT
BOND BREAKER

DETAIL B
N.T.S.

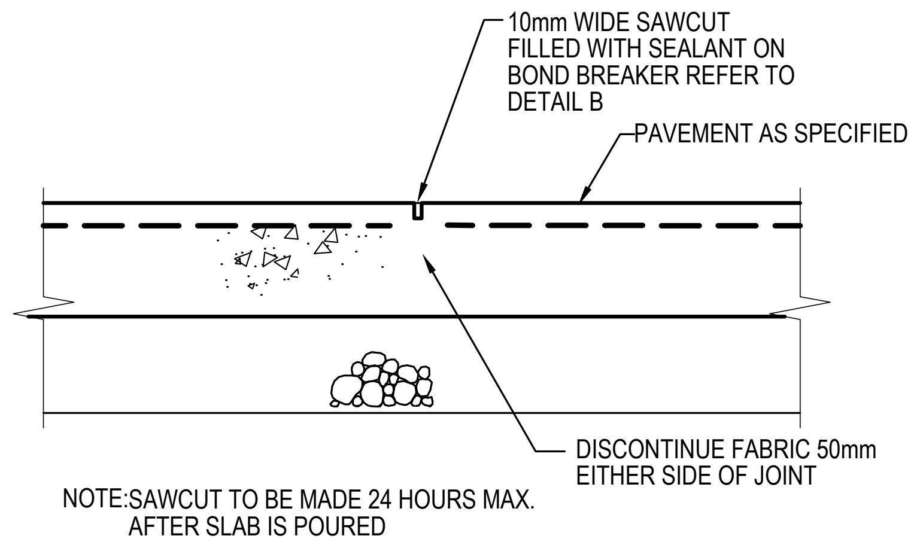

REFER TO 'TABLE A' BELOW FOR DOWEL BAR DIAMETER AND 'NOTES 1 AND 2' FOR DETAILS
16 THICK COMPRESSIBLE CORK FILLER BOARD WITH 12 DEEP SEALANT ON BOND BREAKER. REFER DETAIL A
PAVEMENT AS SPECIFIED
N12 LAP 450 WHERE REQ'D
EXPANSION CAP (10 ALLOWANCE)
230 MIN
2N12 SUPPORT BARS SECURELY TIED OR TACK WELDED TO DOWEL
300
300
BOND BREAKING AGENT APPLIED TO SECTION OF DOWEL IN SLAB POURED 2nd.

DOWELLED EXPANSION JOINT (DEJ)
SCALE 1:10

NOTE
1. DOWEL BARS ARE TO BE PLAIN ROUND STEEL BARS OF GRADE 250N AND 450mm LONG PLACED AT 300mm CENTRES.
2. MORE THAN HALF OF THE DOWEL SHOULD BE COATED WITH DEBONDING AGENT TO ENSURE EFFECTIVE DEBONDING FROM THE CONCRETE ON THAT SIDE OF THE JOINT.

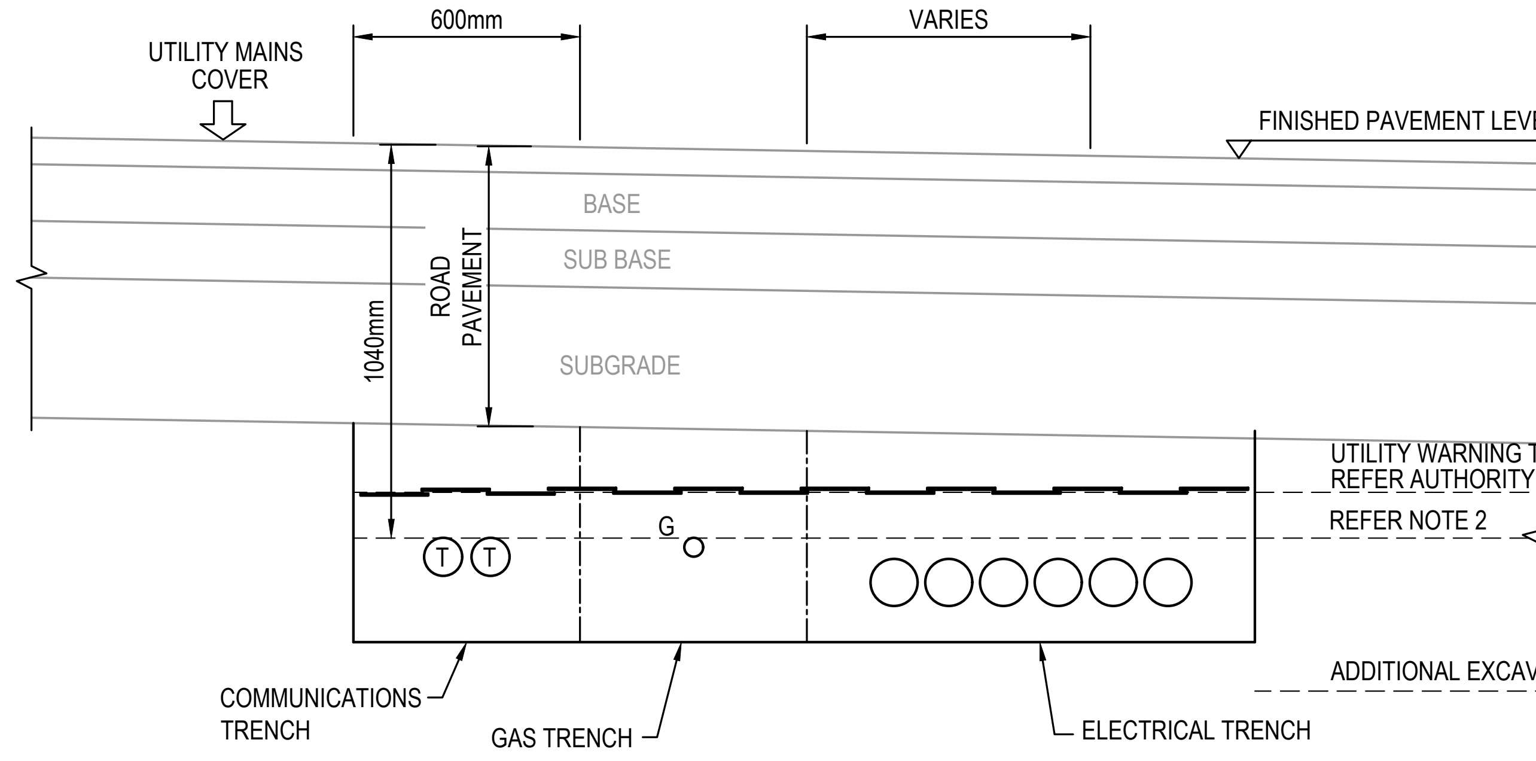
TABLE A

SLAB THICKNESS	DOWEL DIA.
125<D≤160	24
160<D≤200	28
200<D≤250	32
D>250	36


10mm WIDE SAWCUT FILLED WITH SEALANT ON BOND BREAKER REFER TO DETAIL B
PAVEMENT AS SPECIFIED
DISCONTINUE FABRIC 50mm EITHER SIDE OF JOINT

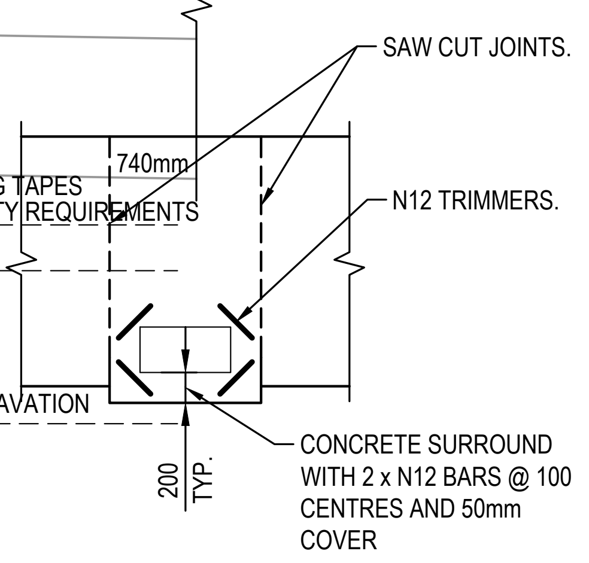
NOTE:SAWCUT TO BE MADE 24 HOURS MAX. AFTER SLAB IS POURED

SAWN JOINT (SJ)
SCALE 1:10


600mm
VARIES
UTILITY MAINS COVER
FINISHED PAVEMENT LEVEL
BASE
SUB BASE
SUBGRADE
ROAD PAVEMENT
1040mm
UTILITY WARNING TAPES REFER AUTHORITY REQUIREMENTS
REFER NOTE 2
G
T
T
ADDITIONAL EXCAVATION
COMMUNICATIONS TRENCH
GAS TRENCH
ELECTRICAL TRENCH

TYPICAL SERVICES TRENCH DETAIL (ROAD CROSSING)
SCALE 1:20

NOTES
1: FINAL NUMBER, SIZING AND SPACING OF CONDUITS AND PROTECTION STRIPS SUBJECT TO CERTIFIED ELECTRICAL AND COMMUNICATIONS AUTHORITY DOCUMENTATION.
2: UTILITY DEPTHS TO BE INSTALLED IN ACCORDANCE WITH AUTHORITY REQUIREMENTS OR MINIMUM 300mm BELOW SUBGRADE, WHICHEVER IS THE MORE ONEROUS.


SAW CUT JOINTS.
740mm
N12 TRIMMERS.
200 TYP.
CONCRETE SURROUND WITH 2 x N12 BARS @ 100 CENTRES AND 50mm COVER

SERVICE COVER IN FOOTPATH TYPICAL DETAIL
SCALE 1:50

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales
0 100 200 400 600 800 1000mm
1 : 10 @ A1 1 : 20 @ A3
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

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Client
ICON OCEANIA

Scales	AS SHOWN
Grid	MGA2020
Height Datum	AHD

GDA2020

Drawn	ASD
Designed	ASD
Checked	MM
Approved	

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
SITEWORKS DETAILS
SHEET 1

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1020
Issue
A

100mm on Original
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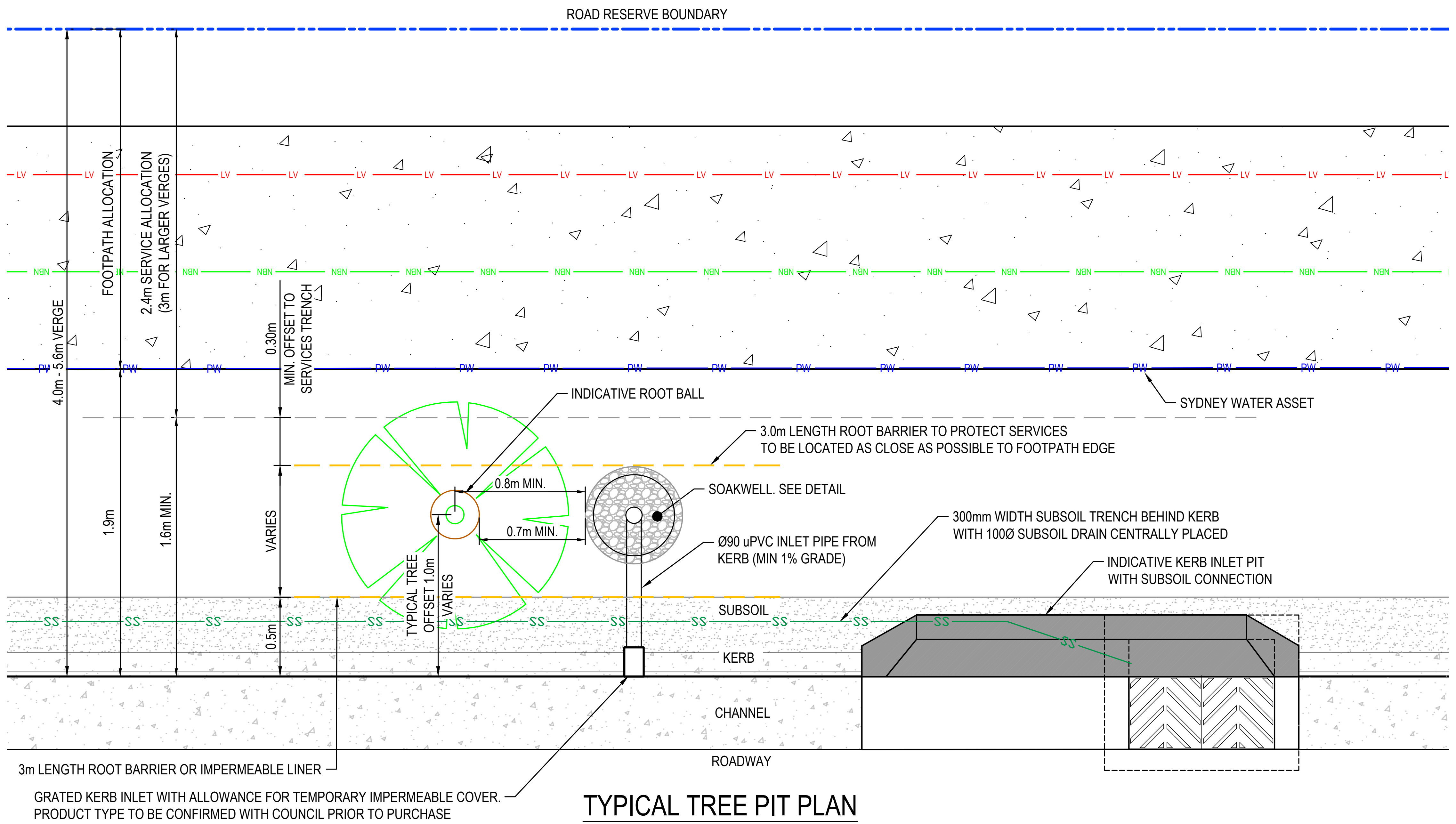
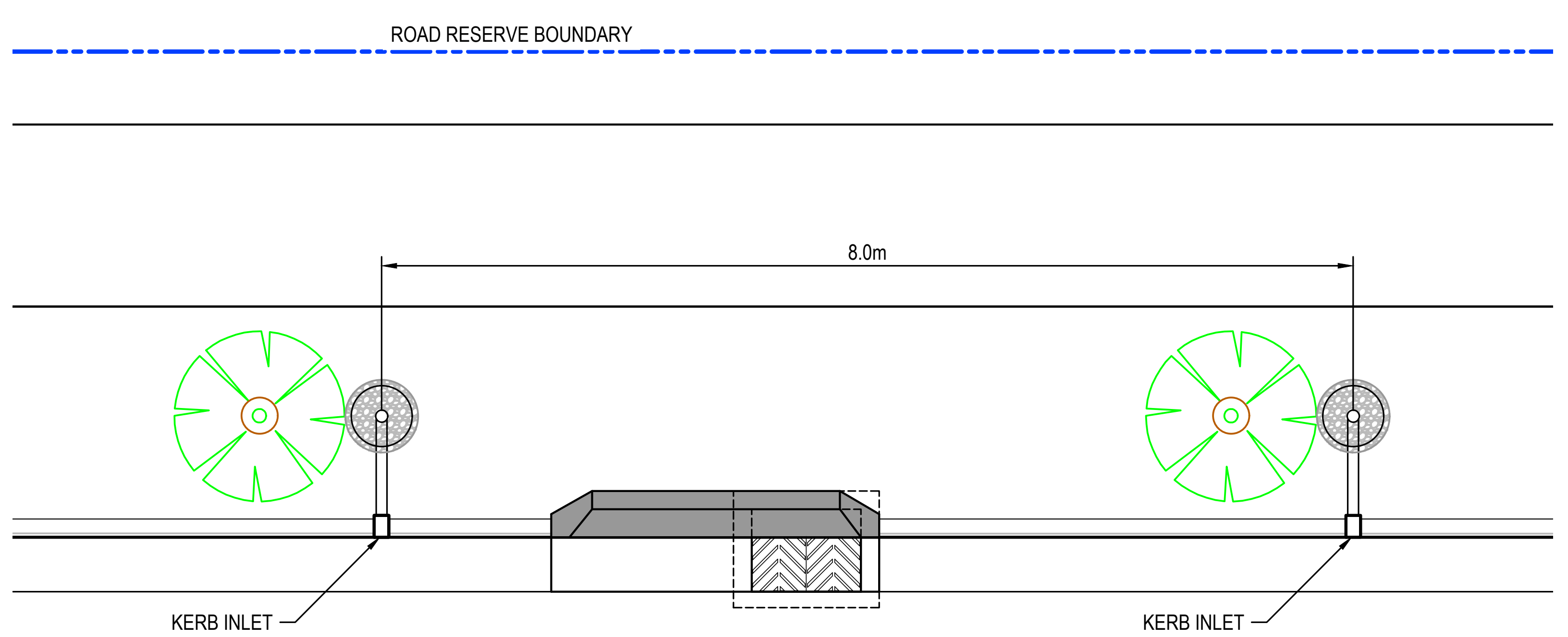

ROAD RESERVE BOUNDARY
FOOTPATH ALLOCATION
2.4m SERVICE ALLOCATION (3m FOR LARGER VERGES)
0.30m MIN. OFFSET TO SERVICES TRENCH
4.0m - 5.6m VERGE
1.9m
1.6m MIN.
VARIES
0.5m
LV
NBN
PW
SS
INDICATIVE ROOT BALL
SYDNEY WATER ASSET
3.0m LENGTH ROOT BARRIER TO PROTECT SERVICES
TO BE LOCATED AS CLOSE AS POSSIBLE TO FOOTPATH EDGE
0.8m MIN.
SOAKWELL. SEE DETAIL
0.7m MIN.
Ø90 uPVC INLET PIPE FROM KERB (MIN 1% GRADE)
300mm WIDTH SUBSOIL TRENCH BEHIND KERB WITH 100Ø SUBSOIL DRAIN CENTRALLY PLACED
INDICATIVE KERB INLET PIT WITH SUBSOIL CONNECTION
TYPICAL TREE OFFSET 1.0m VARIES
SUBSOIL
KERB
CHANNEL
ROADWAY
3m LENGTH ROOT BARRIER OR IMPERMEABLE LINER
GRATED KERB INLET WITH ALLOWANCE FOR TEMPORARY IMPERMEABLE COVER.
PRODUCT TYPE TO BE CONFIRMED WITH COUNCIL PRIOR TO PURCHASE

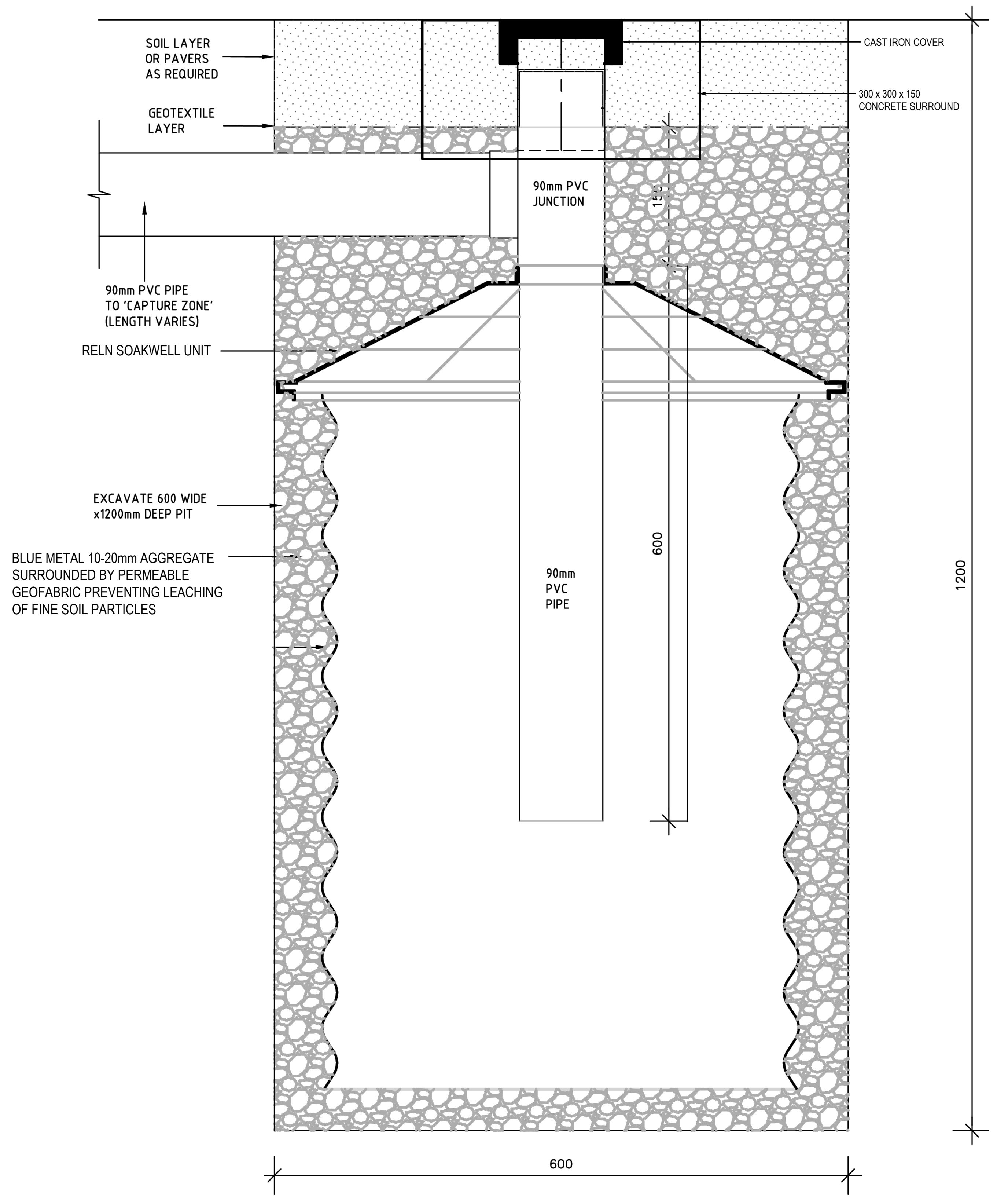
TYPICAL TREE PIT PLAN
ESTATE ROAD 4.0m - 5.6m VERGE

SCALE 1:25

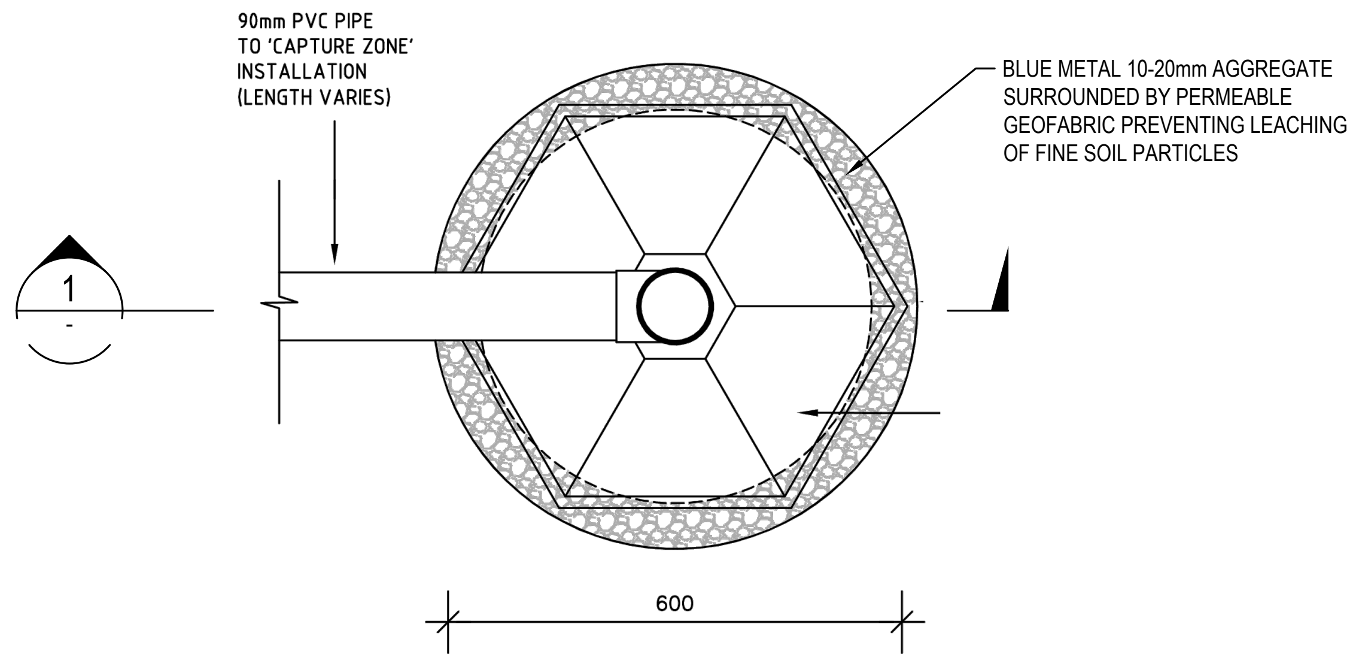

ROAD RESERVE BOUNDARY
8.0m
KERB INLET
KERB INLET

TYPICAL TREE PIT SETOUT
ESTATE ROAD 4.0m - 5.6m VERGE

SCALE 1:50


SOIL LAYER OR PAVERS AS REQUIRED
GEOTEXTILE LAYER
CAST IRON COVER
300 x 300 x 150 CONCRETE SURROUND
90mm PVC JUNCTION
150
90mm PVC PIPE TO 'CAPTURE ZONE' (LENGTH VARIES)
RELN SOAKWELL UNIT
EXCAVATE 600 WIDE x1200mm DEEP PIT
BLUE METAL 10-20mm AGGREGATE SURROUNDED BY PERMEABLE GEOFABRIC PREVENTING LEACHING OF FINE SOIL PARTICLES
90mm PVC PIPE
600
1200
600

SECTION 1
1 : 5


90mm PVC PIPE TO 'CAPTURE ZONE' INSTALLATION (LENGTH VARIES)
BLUE METAL 10-20mm AGGREGATE SURROUNDED BY PERMEABLE GEOFABRIC PREVENTING LEACHING OF FINE SOIL PARTICLES
1
600

SOAKWELL PLAN

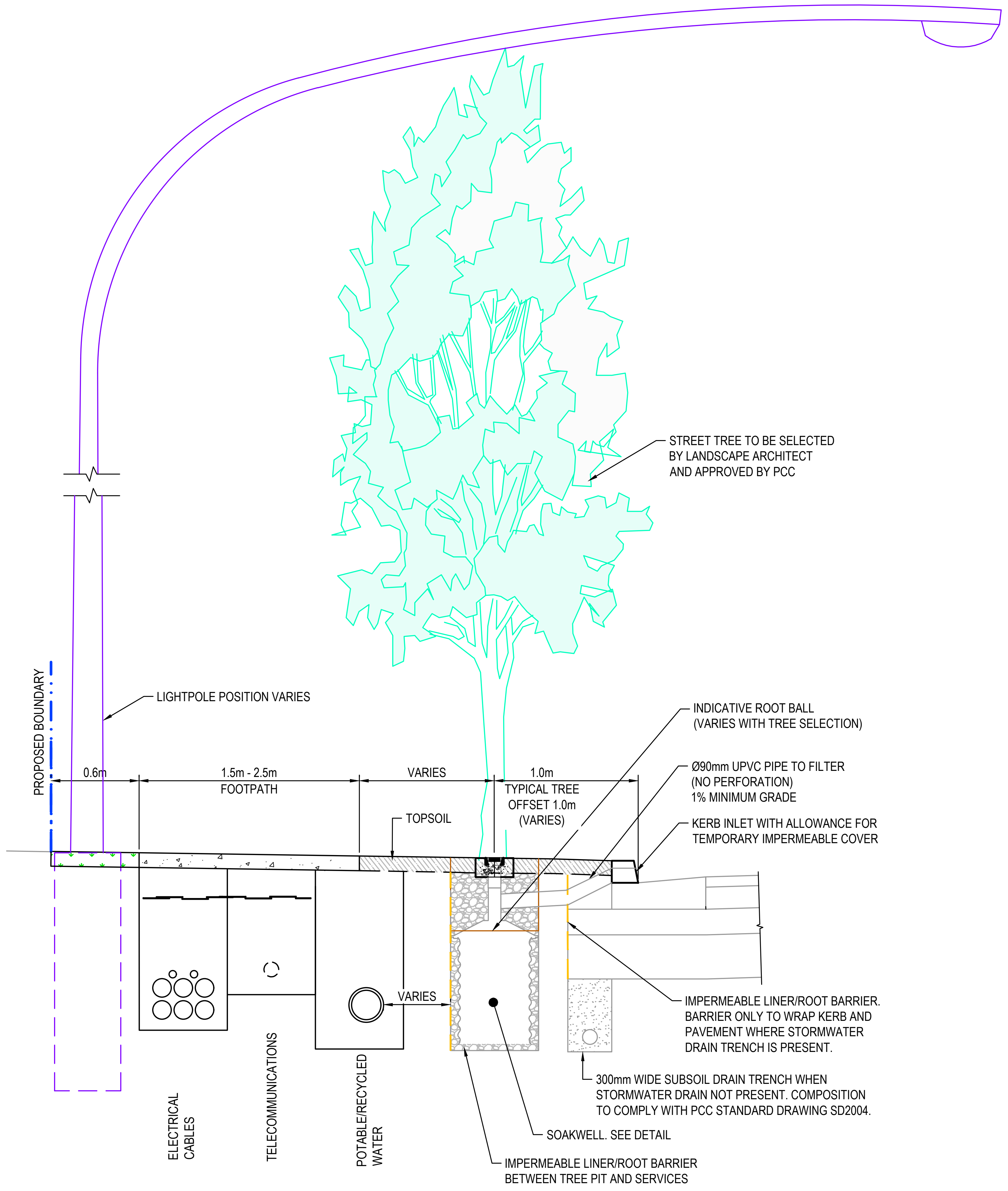
SCALE 1:10

NOTES:

1. SUBSOIL DRAINAGE SHALL BE CONSTRUCTED ADJACENT TO EACH PASSIVELY IRRIGATED STREET TREE (PIST) AND CONNECTED TO A STORMWATER DRAINAGE PIT.
2. THE SUBSOIL DRAINAGE UNDER THE KERB CAN BE USED FOR THE PURPOSE OF PIST.
3. IN AREAS WHERE THERE IS STORMWATER DRAINAGE PIPES, A SEPARATE SUB SOIL DRAINAGE LINE SHALL BE CONSTRUCTED FOR PIST. A CHIMNEY DESIGN MAY BE CONSIIDERED SUBJECT TO COUNCIL'S APPROVAL.

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3


STREET TREE TO BE SELECTED BY LANDSCAPE ARCHITECT AND APPROVED BY PCC
LIGHTPOLE POSITION VARIES
PROPOSED BOUNDARY
0.6m
1.5m - 2.5m FOOTPATH
VARIES
1.0m TYPICAL TREE OFFSET 1.0m (VARIES)
TOPSOIL
INDICATIVE ROOT BALL (VARIES WITH TREE SELECTION)
Ø90mm UPVC PIPE TO FILTER (NO PERFORATION) 1% MINIMUM GRADE
KERB INLET WITH ALLOWANCE FOR TEMPORARY IMPERMEABLE COVER
VARIES
IMPERMEABLE LINER/ROOT BARRIER. BARRIER ONLY TO WRAP KERB AND PAVEMENT WHERE STORMWATER DRAIN TRENCH IS PRESENT.
300mm WIDE SUBSOIL DRAIN TRENCH WHEN STORMWATER DRAIN NOT PRESENT. COMPOSITION TO COMPLY WITH PCC STANDARD DRAWING SD2004.
SOAKWELL. SEE DETAIL
IMPERMEABLE LINER/ROOT BARRIER BETWEEN TREE PIT AND SERVICES
ELECTRICAL CABLES
TELECOMMUNICATIONS
POTABLE/RECYCLED WATER

TYPICAL TREE PIT SECTION
ESTATE ROAD 4.0m - 5.6m VERGE

SCALE 1:25

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 100 200 400 600 800 1000mm
1 : 10 @ A1 1 : 20 @ A3

0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
SITEWORKS DETAILS
SHEET 2

Civil Engineers and Project Managers
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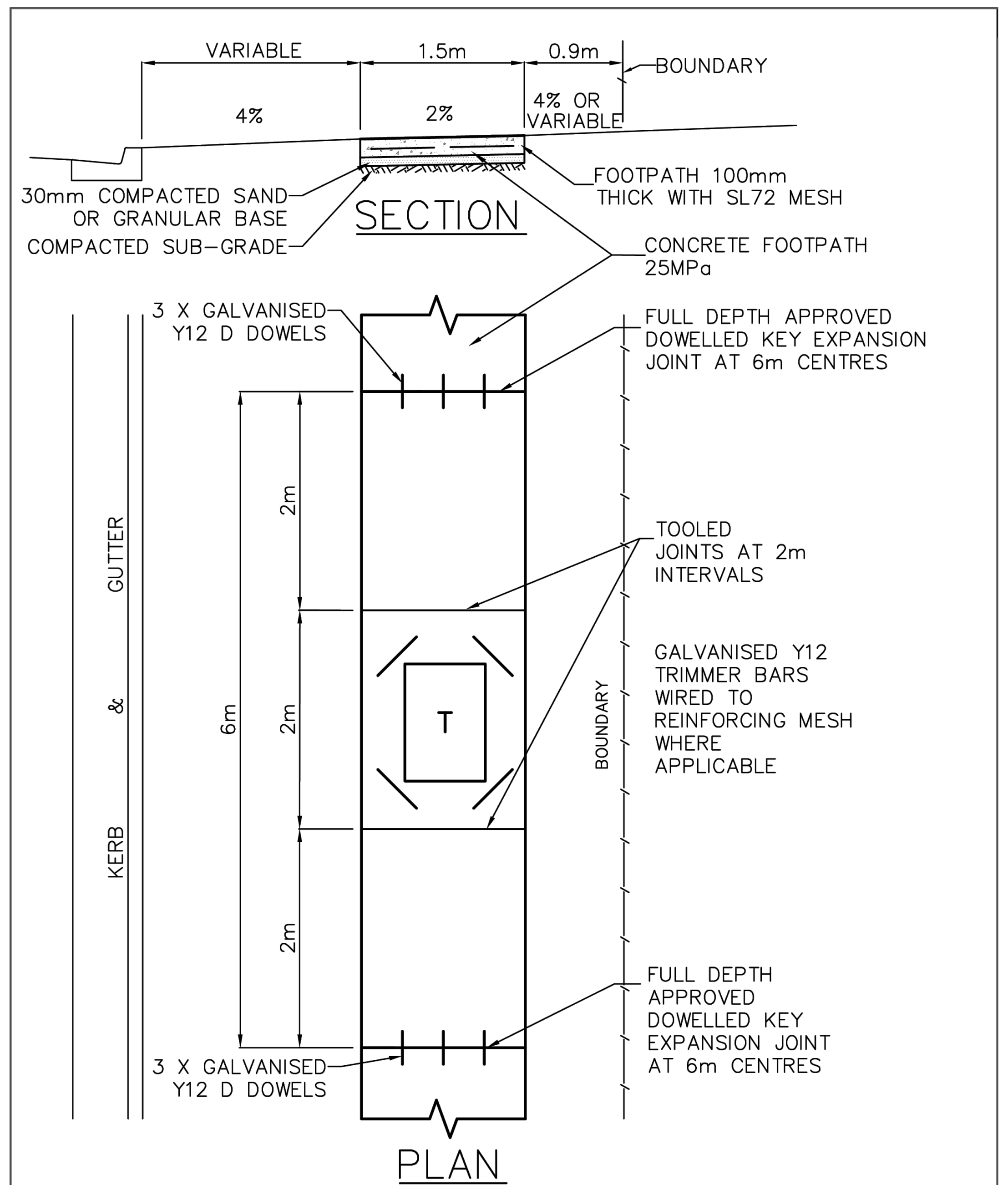
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1021

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1021.dwg

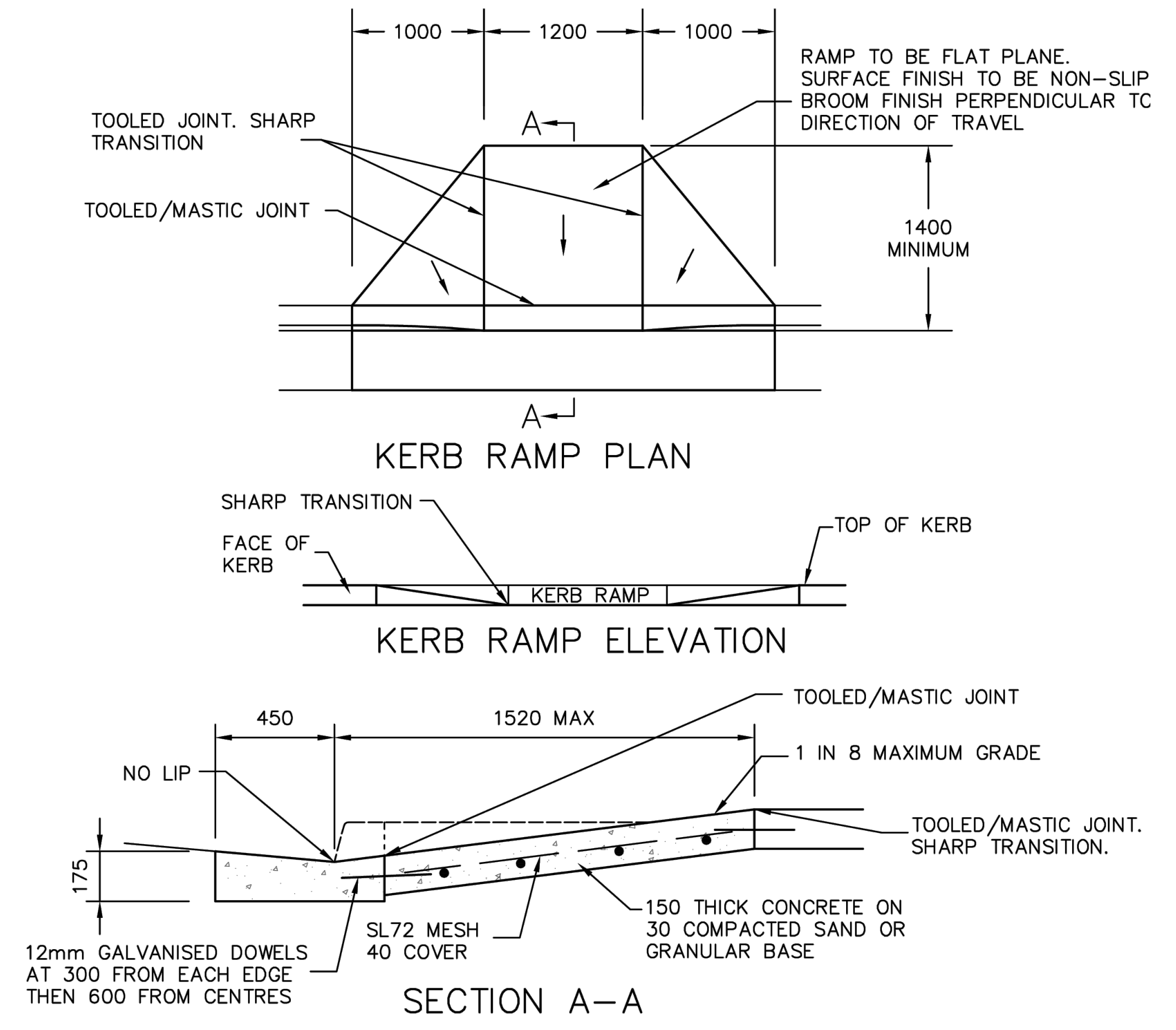

VARIABLE
1.5m
0.9m
BOUNDARY
4%
2%
4% OR VARIABLE
30mm COMPACTED SAND OR GRANULAR BASE
COMPACTED SUB-GRADE
FOOTPATH 100mm THICK WITH SL72 MESH
CONCRETE FOOTPATH 25MPa
3 X GALVANISED Y12 D DOWELS
FULL DEPTH APPROVED DOWELLED KEY EXPANSION JOINT AT 6m CENTRES
KERB & GUTTER
2m
6m
2m
2m
T
TOOLED JOINTS AT 2m INTERVALS
GALVANISED Y12 TRIMMER BARS WIRED TO REINFORCING MESH WHERE APPLICABLE
BOUNDARY
FULL DEPTH APPROVED DOWELLED KEY EXPANSION JOINT AT 6m CENTRES
3 X GALVANISED Y12 D DOWELS

SECTION

PLAN

NOTES
1. LONGITUDINAL EDGING IS REQUIRED ON FOOTPATHS. ALL EXPANSION JOINTS SHALL ALSO BE EDGED.
2. THE FOOTPATH SHALL BE FINISHED WITH A BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
3. FOR MACHINE LAID FOOTPATHS, REFER TO SECTION 7 OF COUNCIL'S CONSTRUCTION SPECIFICATION.
4. FOR CYCLEWAYS, REFER TO SECTION 7 OF COUNCIL'S CONSTRUCTION SPECIFICATION.

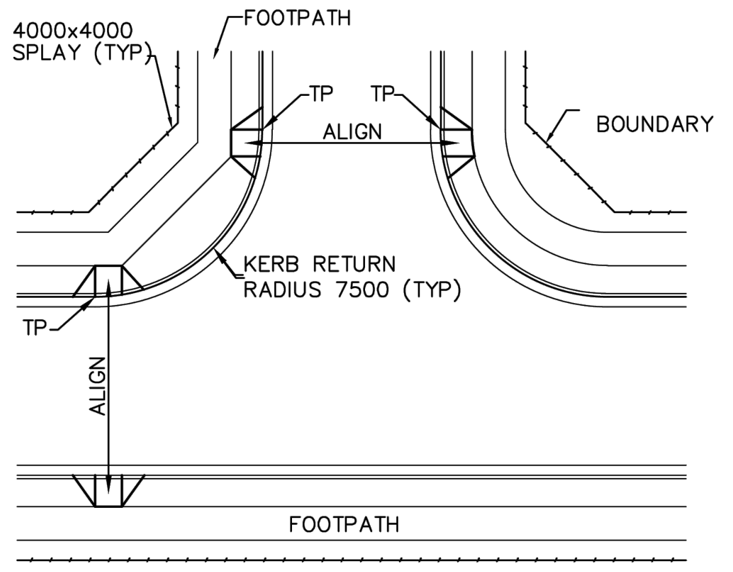
DRAWN: M.WARDA	STANDARD FOOTPATH DETAILS	APPROVED:
PENRITH CITY COUNCIL		PLAN No. SD1001


1000
1200
1000
A
RAMP TO BE FLAT PLANE. SURFACE FINISH TO BE NON-SLIP BROOM FINISH PERPENDICULAR TC DIRECTION OF TRAVEL
TOOLED JOINT. SHARP TRANSITION
TOOLED/MASTIC JOINT
1400 MINIMUM
A
SHARP TRANSITION
FACE OF KERB
TOP OF KERB
KERB RAMP
TOOLED/MASTIC JOINT
450
1520 MAX
1 IN 8 MAXIMUM GRADE
NO LIP
TOOLED/MASTIC JOINT. SHARP TRANSITION.
175
12mm GALVANISED DOWELS AT 300 FROM EACH EDGE THEN 600 FROM CENTRES
SL72 MESH 40 COVER
150 THICK CONCRETE ON 30 COMPACTED SAND OR GRANULAR BASE

KERB RAMP PLAN

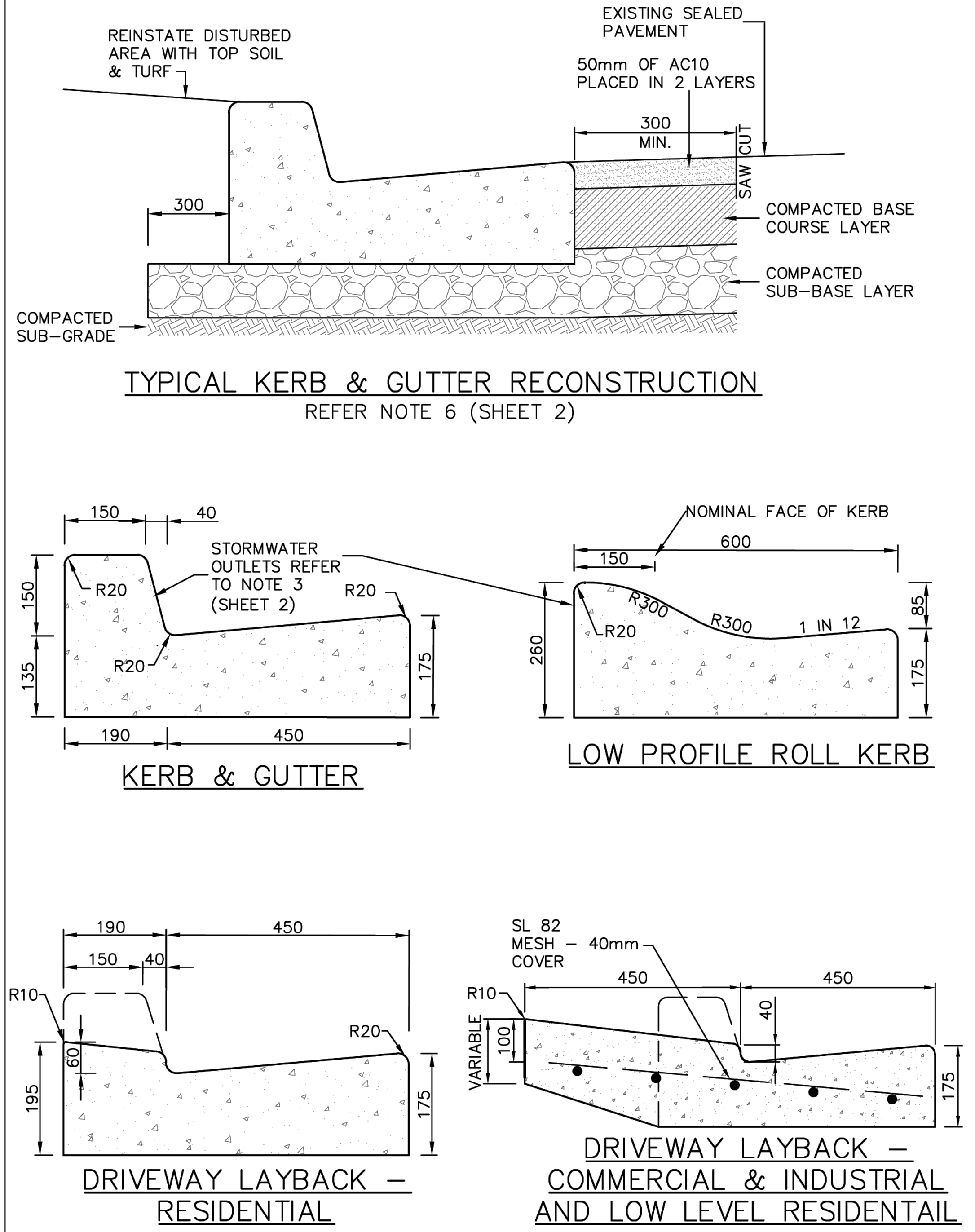
KERB RAMP ELEVATION

SECTION A–A


4000x4000 SPLAY (TYP)
FOOTPATH
TP
TP
ALIGN
BOUNDARY
KERB RETURN RADIUS 7500 (TYP)
TP
ALIGN
FOOTPATH

NOTES
1. KERB RAMP DETAILS ARE BASED ON AS 1428.1(2009) – "DESIGN FOR ACCESS AND MOBILITY".
2. POSITIONS OF RAMPS ARE TO BE DETERMINED CONSIDERING:
   - –THE ANTICIPATED MOVEMENT OF PEDESTRIANS
   - –LOCATION OF MARKED CROSSINGS
   - –CONSTRAINTS SUCH AS POLES, GULLY PITS OR SIGNS
3. CONCRETE TO BE 25MPA AT 28 DAYS
4. KERB RAMP TO BE DOWELLED INTO BACK OF KERB & FOOTPATH
5. ALL DIMENSIONS ARE IN MILLIMETRES
6. SHARP TRANSITIONS ARE CRITICAL IN GUIDING PEDESTRIANS WITH VISION IMPAIRMENTS

DRAWN:	KERB RAMP DETAILS	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD1002


REINSTATE DISTURBED AREA WITH TOP SOIL & TURF
EXISTING SEALED PAVEMENT
50mm OF AC10 PLACED IN 2 LAYERS
300 MIN.
SAW CUT
300
COMPACTED BASE COURSE LAYER
COMPACTED SUB-BASE LAYER
COMPACTED SUB-GRADE
150
40
STORMWATER OUTLETS REFER TO NOTE 3 (SHEET 2)
R20
R20
R20
150
135
175
190
450
NOMINAL FACE OF KERB
600
150
R300
R300
1 IN 12
R20
260
85
175
190
450
150
40
R10
R20
60
195
175
SL 82 MESH – 40mm COVER
450
450
R10
40
VARIABLE
100
175

TYPICAL KERB & GUTTER RECONSTRUCTION
REFER NOTE 6 (SHEET 2)

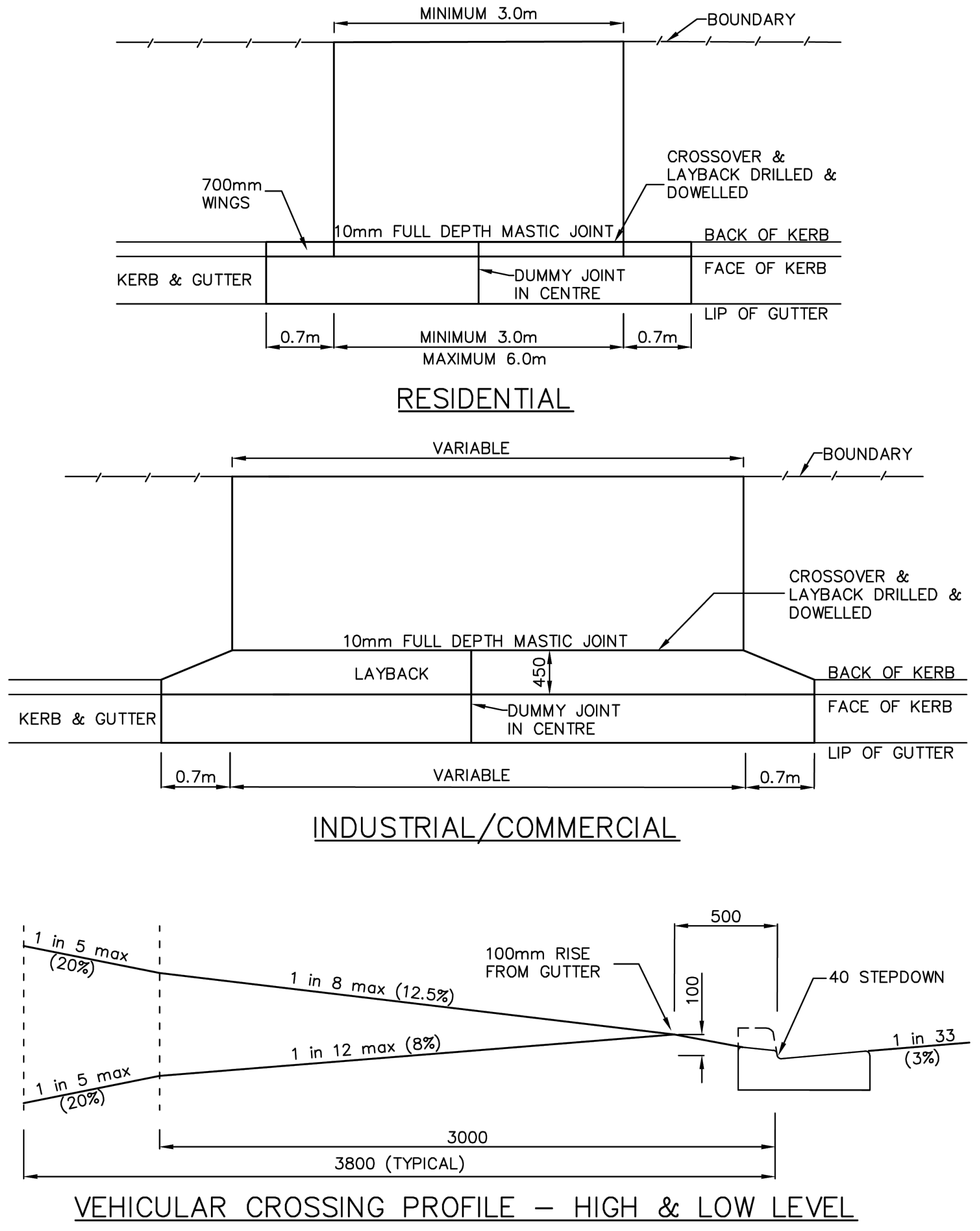
KERB & GUTTER

LOW PROFILE ROLL KERB

DRIVEWAY LAYBACK – RESIDENTIAL

DRIVEWAY LAYBACK – COMMERCIAL & INDUSTRIAL AND LOW LEVEL RESIDENTAIL

DRAWN:	STANDARD KERB & GUTTER, LAYBACKS & DISH CROSSING SHEET 1 OF 2	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD1003/1


MINIMUM 3.0m
BOUNDARY
700mm WINGS
CROSSOVER & LAYBACK DRILLED & DOWELLED
10mm FULL DEPTH MASTIC JOINT
BACK OF KERB
KERB & GUTTER
DUMMY JOINT IN CENTRE
FACE OF KERB
LIP OF GUTTER
0.7m
MINIMUM 3.0m
MAXIMUM 6.0m
0.7m
VARIABLE
BOUNDARY
CROSSOVER & LAYBACK DRILLED & DOWELLED
10mm FULL DEPTH MASTIC JOINT
LAYBACK
450
BACK OF KERB
KERB & GUTTER
DUMMY JOINT IN CENTRE
FACE OF KERB
LIP OF GUTTER
0.7m
VARIABLE
0.7m
1 in 5 max (20%)
1 in 8 max (12.5%)
100mm RISE FROM GUTTER
500
100
40 STEPDOWN
1 in 12 max (8%)
1 in 33 (3%)
1 in 5 max (20%)
3000
3800 (TYPICAL)

RESIDENTIAL

INDUSTRIAL/COMMERCIAL

VEHICULAR CROSSING PROFILE – HIGH & LOW LEVEL

DRAWN:	TYPICAL VEHICULAR CROSSOVER	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD1004

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales
0 100 200 400 600 800 1000mm
1 : 10 @ A1 1 : 20 @ A3
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
SITEWORKS DETAILS
SHEET 3

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info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1022
Issue
A

100mm on Original

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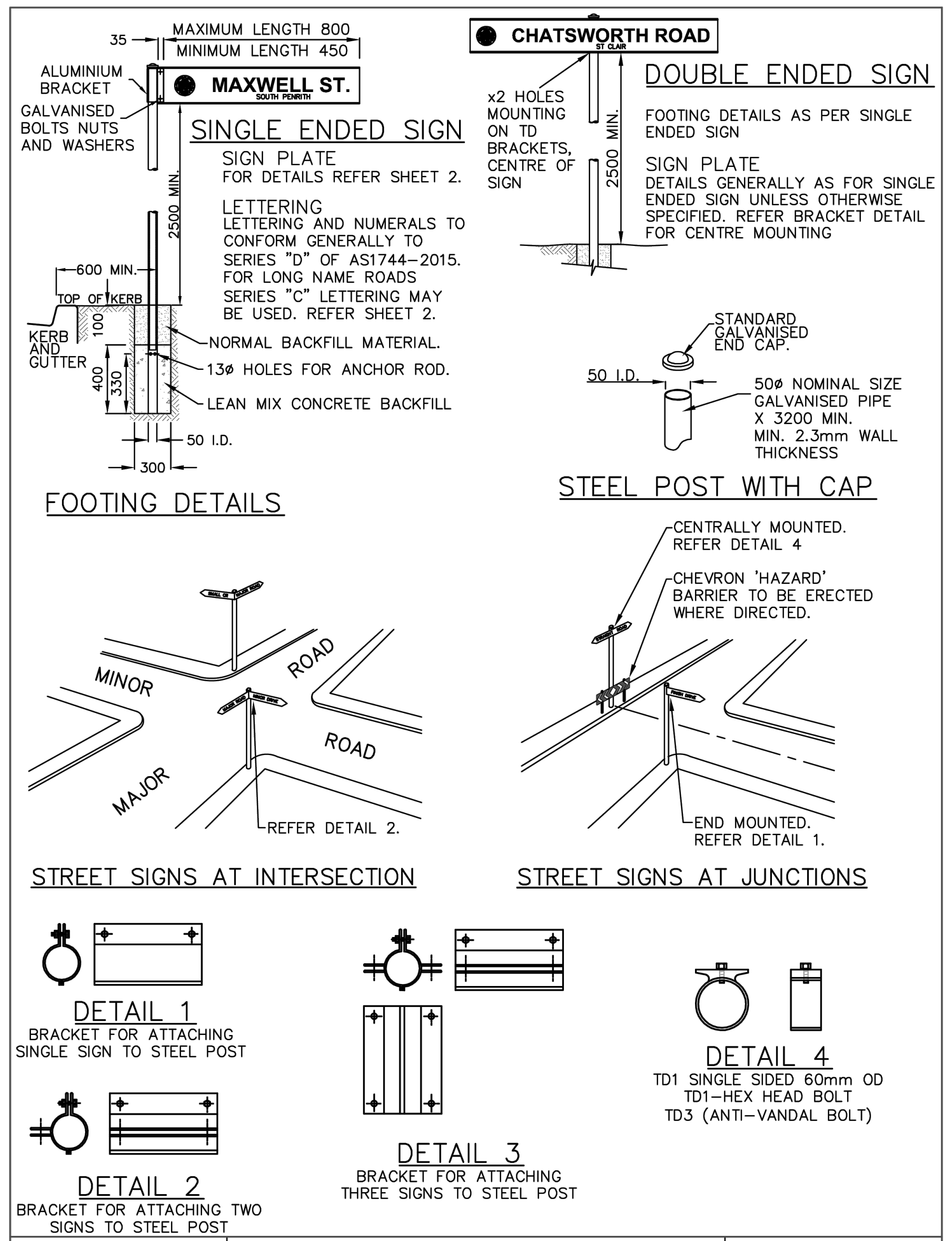

35
MAXIMUM LENGTH 800
MINIMUM LENGTH 450
ALUMINIUM BRACKET
MAXWELL ST.
SOUTH PENRITH
GALVANISED BOLTS NUTS AND WASHERS
SINGLE ENDED SIGN
SIGN PLATE
FOR DETAILS REFER SHEET 2.
LETTERING
LETTERING AND NUMERALS TO CONFORM GENERALLY TO SERIES "D" OF AS1744–2015. FOR LONG NAME ROADS SERIES "C" LETTERING MAY BE USED. REFER SHEET 2.
2500 MIN.
600 MIN.
TOP OF KERB
KERB AND GUTTER
100
400
330
NORMAL BACKFILL MATERIAL.
13ø HOLES FOR ANCHOR ROD.
LEAN MIX CONCRETE BACKFILL
50 I.D.
300
FOOTING DETAILS
CHATSWORTH ROAD
ST CLAIR
x2 HOLES MOUNTING ON TD BRACKETS, CENTRE OF SIGN
2500 MIN.
DOUBLE ENDED SIGN
FOOTING DETAILS AS PER SINGLE ENDED SIGN
SIGN PLATE
DETAILS GENERALLY AS FOR SINGLE ENDED SIGN UNLESS OTHERWISE SPECIFIED. REFER BRACKET DETAIL FOR CENTRE MOUNTING
STANDARD GALVANISED END CAP.
50 I.D.
50ø NOMINAL SIZE GALVANISED PIPE X 3200 MIN. MIN. 2.3mm WALL THICKNESS
STEEL POST WITH CAP
MINOR
ROAD
MAJOR
ROAD
REFER DETAIL 2.
STREET SIGNS AT INTERSECTION
CENTRALLY MOUNTED. REFER DETAIL 4
CHEVRON 'HAZARD' BARRIER TO BE ERECTED WHERE DIRECTED.
END MOUNTED. REFER DETAIL 1.
STREET SIGNS AT JUNCTIONS
DETAIL 1
BRACKET FOR ATTACHING SINGLE SIGN TO STEEL POST
DETAIL 2
BRACKET FOR ATTACHING TWO SIGNS TO STEEL POST
DETAIL 3
BRACKET FOR ATTACHING THREE SIGNS TO STEEL POST
DETAIL 4
TD1 SINGLE SIDED 60mm OD
TD1–HEX HEAD BOLT
TD3 (ANTI–VANDAL BOLT)

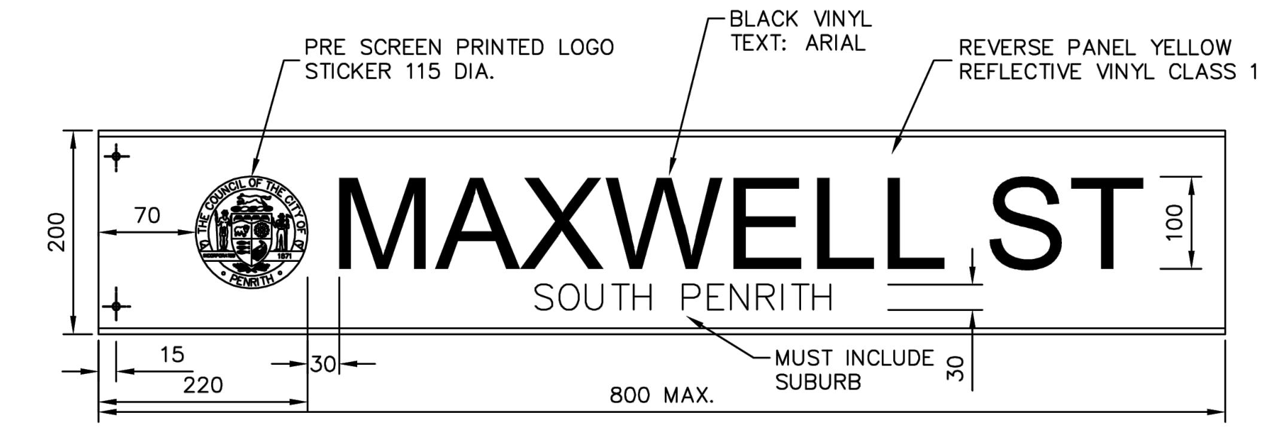
DRAWN:

PENRITH
CITY COUNCIL

STANDARD STREET
SIGNS & POSTS
SHEET 1 OF 2

APPROVED:

PLAN No:
SD1006/1


PRE SCREEN PRINTED LOGO STICKER 115 DIA.
BLACK VINYL TEXT: ARIAL
REVERSE PANEL YELLOW REFLECTIVE VINYL CLASS 1
200
70
MAXWELL ST
SOUTH PENRITH
100
15
220
30
800 MAX.
MUST INCLUDE SUBURB
30

STREET BLADE NAME SPECIFICATION

1.0 GENERAL

1.1 DELIVERY DOCKETS SHALL INCLUDE FULL DETAILS OF EACH BLADE AND BRACKET SUPPLIED AND ORDER NUMBER.

2.0 SIGN BLADE

2.1 SIGNS SHALL BE MANUFACTURED FROM AN APPROVED MARINE GRADE HIGH TENSILE STRENGTH ALUMINIUM EXTRUSION.

2.2 THE LENGTH OF THE SIGNS SHALL NOT BE MORE THAN 800mm AND 200mm HIGH.

2.3 THE FLANGES SHALL BE 18mm MINIMUM WIDTH AND NO LESS THAN 6mm THICK, THE FILLET SHALL BE NOT LESS THAN 5mm WIDE AND 7mm MINIMUM THICKNESS AND THE WEB SHALL BE 2mm MINIMUM THICKNESS (REFER DETAIL A).

2.4 THE BLADES SHALL BE PRE–DRILLED TO COINCIDE WITH THE POSITION AND DIAMETER OF THE BRACKETS. THE BLADES SHALL BE 200mm BLADES.

3.0 STREET NAME SIGNS

3.1 BACKGROUND:
THE BACKGROUND SHEETING SHALL BE YELLOW CLASS 1 REFLECTIVE VINYL SHEETING BONDED TO THE PREPARED ALUMINIUM EXTRUSION BLADE BY THE APPROVED METHOD TO MEET AS1906.1, APPLICABLE FOR A 12 YEAR WARRANTY UNLESS STATED OTHERWISE. THE SHEETING SHALL EXTEND FOR THE FULL LENGTH OF THE BLADE AND BE UNSPLICED ALONG ITS ENTIRE LENGTH. THE MINIMUM WIDTH OF THE BACKGROUND MATERIAL SHALL BE 180mm FOR 202mm BLADES.

3.2 TEXT:
BLACK TEXT ON YELLOW BACKGROUND.
FONT: AERIAL NARROW BOLD; HEIGHT 100mm, SMALL TEXT 30mm. TEXT LENGTHS EITHER 440mm OR 540mm.

3.3 COATINGS:
ALL SIGNS TO BE TREATED WITH ANTI–GRAFFITI FILM.

4.0 BRACKETS

4.1 BRACKETS SHALL BE COMPATIBLE WITH THE SPECIFIED BLADE.

4.2 BRACKETS SHALL BE PRE–DRILLED (10mm DIA.). BRACKETS SHALL BE SUPPLIED COMPLETE WITH BOLTS, NUTS AND WASHERS. BOLTS, NUTS AND WASHERS SHALL BE GALVANISED AND OF SUITABLE SIZE.

5.0 TOLERANCE

MANUFACTURING TOLERANCES OF SIGNS SHALL BE AS SPECIFIED IN SECTION 9 OF AS1743–2001 "ROAD SIGNS SPECIFICATIONS".

6.0 PROTECTION AND PACKAGING

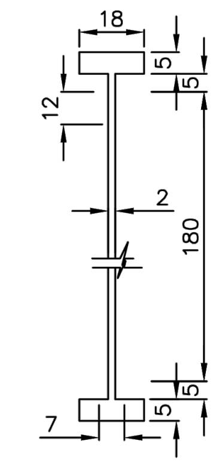
PROTECTION AND PACKAGING OF ALL BLADES, BRACKETS AND ASSOCIATED FITTINGS FOR DELIVERY TO COUNCIL SHALL BE THE RESPONSIBILITY OF THE SUPPLIER. SIGNS ARE TO BE PROTECTED FROM DAMAGE DURING TRANSIT BY APPROVED WRAPPING PRIOR TO DELIVERY.

7.0 WARRANTY

ALL STREET SIGN BLADES SHALL CARRY A 12 YEAR PERFORMANCE WARRANTY UNLESS STATED OTHERWISE FROM THE RETRO–REFLECTIVE MATERIAL MANUFACTURER. DETAILS OF THE PERFORMANCE WARRANTY SHALL BE SUBMITTED WITH THE QUOTATION/TENDER.

NOTES

1. SIGN MANUFACTURERS TO OBTAIN COUNCIL LOGO FROM COUNCIL.
2. END MOUNTED SIGN – DOUBLE SIDED. CENTRE MOUNTED SIGN – SINGLE SIDED (BLANK ALUMINIMUM BACK)
3. VINYL COLOURS OBTAINABLE FROM COUNCIL
4. ALL DIMESIONS IN mm UNLESS OTHERWISE STATED


18
5
5
12
2
180
5
5
7

DETAIL A
N.T.S.

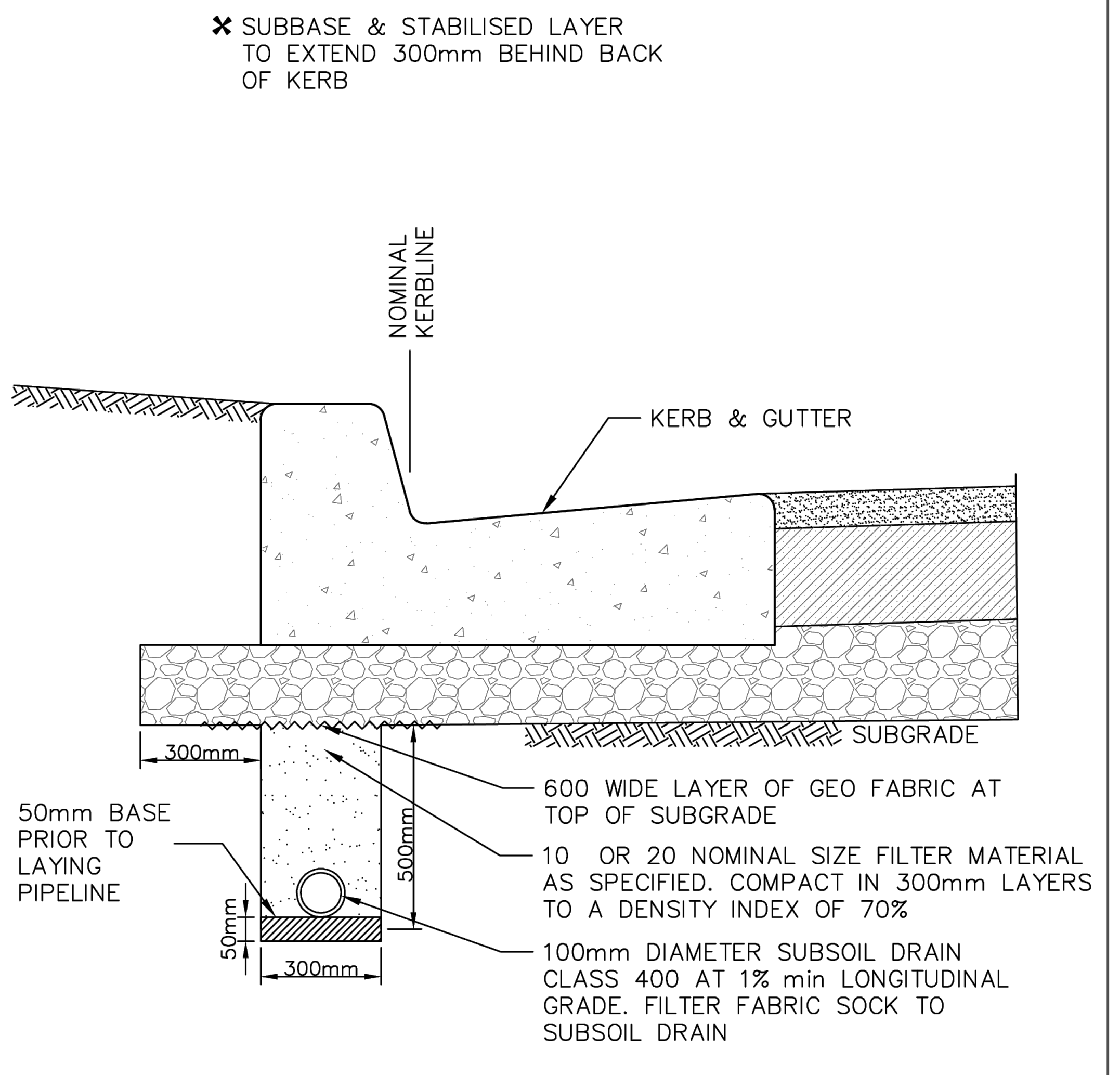
DRAWN:

PENRITH
CITY COUNCIL

STANDARD STREET
SIGNS & POSTS
SHEET 2 OF 2

APPROVED:

PLAN No:
SD1006/2


✖ SUBBASE & STABILISED LAYER TO EXTEND 300mm BEHIND BACK OF KERB
NOMINAL KERBLINE
KERB & GUTTER
SUBGRADE
300mm
50mm BASE PRIOR TO LAYING PIPELINE
500mm
50mm
300mm
600 WIDE LAYER OF GEO FABRIC AT TOP OF SUBGRADE
10 OR 20 NOMINAL SIZE FILTER MATERIAL AS SPECIFIED. COMPACT IN 300mm LAYERS TO A DENSITY INDEX OF 70%
100mm DIAMETER SUBSOIL DRAIN CLASS 400 AT 1% min LONGITUDINAL GRADE. FILTER FABRIC SOCK TO SUBSOIL DRAIN

NOTE:
SUBSOIL DRAINAGE REQUIRED BELOW ALL KERBS (INCLUDING MEDIAN ISLANDS) IF NO STORMWATER DRAINAGE LINE IS DIRECTLY BELOW.

DRAWN:

PENRITH
CITY COUNCIL

SUBSOIL DRAIN TYPICAL
SECTION
N.T.S.

APPROVED:

PLAN No:
SD2004

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

100mm on Original

Bar Scales

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
SITEWORKS DETAILS
SHEET 4

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info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1023

Issue
A

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1023.dwg

NOTE:
FOR ROAD CENTRELINE SETOUT REFER TO DRAWING NUMBER C1051 FOR DETAILS.

N
FRASER
LOT 11
BE 55.50
FRASERS
LOT 13
BE 61.00
FRASERS
LOT 14
BE 57.00
LOT 51
DP259135
LOT 2
LOT 1C
FFL 51.50
BE 51.25
LOT 1B
FFL 51.50
BE 51.25
LOT 1A
FFL 54.90
BE 54.65
LOT 8
DP253503
60.96m
TRANSGRID EASEMENT
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
ALDINGTON ROAD
MAMRE ROAD
ROAD 01 (MC02)
ROAD 01 (MC01)
6°21'15"
L364.641
L429.697
276°23'48"
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0.000
429.697
420
400
380
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0.000

Issue	Description	Date
C	ISSUED FOR APPROVAL	02-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client
ICON
OCEANIA

Scales 1:1000
Grid MGA2020
Height Datum AHD
GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ALIGNMENT CONTROL SETOUT PLAN

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ABN 96 130 882 405
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Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C1050
Issue C

CONTROL MC01 (ROAD 01) - SETOUT TABLE (CL)

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	296072.011	6251877.144	276°23'33.21"
	20.000	296052.135	6251879.371	276°23'33.21"
	40.000	296032.259	6251881.598	276°23'33.21"
	60.000	296012.384	6251883.824	276°23'33.21"
	80.000	295992.508	6251886.051	276°23'33.21"
	100.000	295972.632	6251888.278	276°23'33.21"
	120.000	295952.757	6251890.505	276°23'33.21"
	140.000	295932.881	6251892.732	276°23'33.21"
	160.000	295913.006	6251894.958	276°23'33.21"
	180.000	295893.130	6251897.185	276°23'33.21"
	200.000	295873.254	6251899.412	276°23'33.21"
	220.000	295853.379	6251901.639	276°23'33.21"
	240.000	295833.503	6251903.865	276°23'33.21"
	260.000	295813.627	6251906.092	276°23'33.21"
	280.000	295793.752	6251908.319	276°23'33.21"
	300.000	295773.876	6251910.546	276°23'33.21"
	320.000	295754.000	6251912.773	276°23'33.21"
	340.000	295734.125	6251914.999	276°23'33.21"
	360.000	295714.249	6251917.226	276°23'33.21"
	380.000	295694.373	6251919.453	276°23'33.21"
	400.000	295674.498	6251921.680	276°23'33.21"
	420.000	295654.622	6251923.907	276°23'33.21"
IP 2	429.697	295644.985	6251924.986	276°23'33.21"

CONTROL MC02 (ROAD 02) - SETOUT TABLE (CL)

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	295644.985	6251924.986	6°21'15.11"
	20.000	295647.198	6251944.864	6°21'15.11"
	40.000	295649.412	6251964.741	6°21'15.11"
	60.000	295651.625	6251984.618	6°21'15.11"
	80.000	295653.839	6252004.495	6°21'15.11"
	100.000	295656.052	6252024.372	6°21'15.11"
	120.000	295658.266	6252044.249	6°21'15.11"
	140.000	295660.479	6252064.126	6°21'15.11"
	160.000	295662.693	6252084.003	6°21'15.11"
	161.354	295662.843	6252085.350	6°21'15.11"
	180.000	295664.906	6252103.881	6°21'15.11"
	200.000	295667.120	6252123.758	6°21'15.11"
	220.000	295669.333	6252143.635	6°21'15.11"
	240.000	295671.547	6252163.512	6°21'15.11"
	260.000	295673.760	6252183.389	6°21'15.11"
	280.000	295675.974	6252203.266	6°21'15.11"
	300.000	295678.187	6252223.143	6°21'15.11"
	320.000	295680.401	6252243.021	6°21'15.11"
	340.000	295682.614	6252262.898	6°21'15.11"
	360.000	295684.828	6252282.775	6°21'15.11"
IP 2	364.477	295685.323	6252287.224	6°21'15.11"

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

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Client
ICON
OCEANIA

Scales NTS
Grid MGA2020
Height Datum AHD
GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ALIGNMENT CONTROL
SETOUT TABLES

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1051
Issue
B

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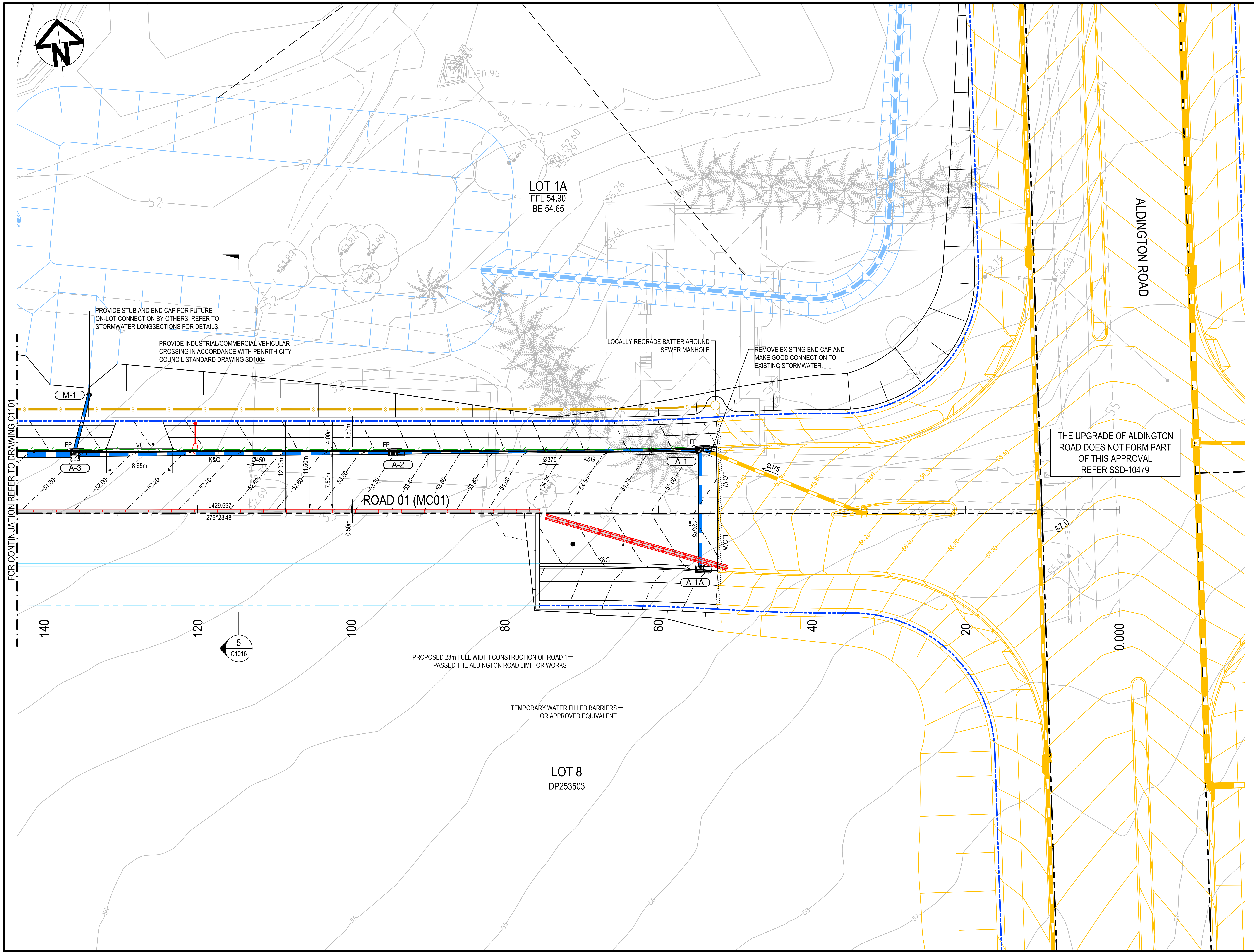

PROVIDE STUB AND END CAP FOR FUTURE ON-LOT CONNECTION BY OTHERS. REFER TO STORMWATER LONGSECTIONS FOR DETAILS.

PROVIDE INDUSTRIAL/COMMERCIAL VEHICULAR CROSSING IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARD DRAWING SD1004.

LOCALLY REGRADE BATTER AROUND SEWER MANHOLE

REMOVE EXISTING END CAP AND MAKE GOOD CONNECTION TO EXISTING STORMWATER.

THE UPGRADE OF ALDINGTON ROAD DOES NOT FORM PART OF THIS APPROVAL REFER SSD-10479

PROPOSED 23m FULL WIDTH CONSTRUCTION OF ROAD 1 PASSED THE ALDINGTON ROAD LIMIT OR WORKS

TEMPORARY WATER FILLED BARRIERS OR APPROVED EQUIVALENT

SITEWORKS LEGEND

- EXISTING BOUNDARY
- EXISTING EASEMENT
- PROPOSED BOUNDARY
- RW01 PROPOSED RETAINING WALL AND NUMBER
- 48.00 PROPOSED CONTOUR
- PROPOSED BATTER SLOPE
- K&G PROPOSED KERB AND GUTTER
- VC PROPOSED DRIVEWAY LAYBACK
- PR PROPOSED KERB RAMP
- PROPOSED TRI-BEAM GUARDRAIL
- L.O.W LIMIT OF WORKS
- PROPOSED CATCH DRAIN
- FP PROPOSED SUBSOIL (100mm Ø) WITH FLUSHING POINT
- ☒ PROPOSED STORMWATER JUNCTION PIT
- ▣ PROPOSED STORMWATER JUNCTION PIT
- PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
- PROPOSED STORMWATER PIPE WITH HEADWALL
- PROPOSED CAPPED STORMWATER PIPE
- A-1 PROPOSED STORMWATER PIT LABEL
- Ø375 PROPOSED STORMWATER PIPE, DIRECTION AND SIZE
- S PROPOSED SEWER PIPE AND MANHOLE
- PROPOSED STREET LIGHTING
- 500mm WIDE CONCRETE BARRIER
- TEMPORARY WATER FILLED BARRIER OR APPROVED EQUIVALENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client

ICON
OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROADWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 1

Civil Engineers and Project Managers

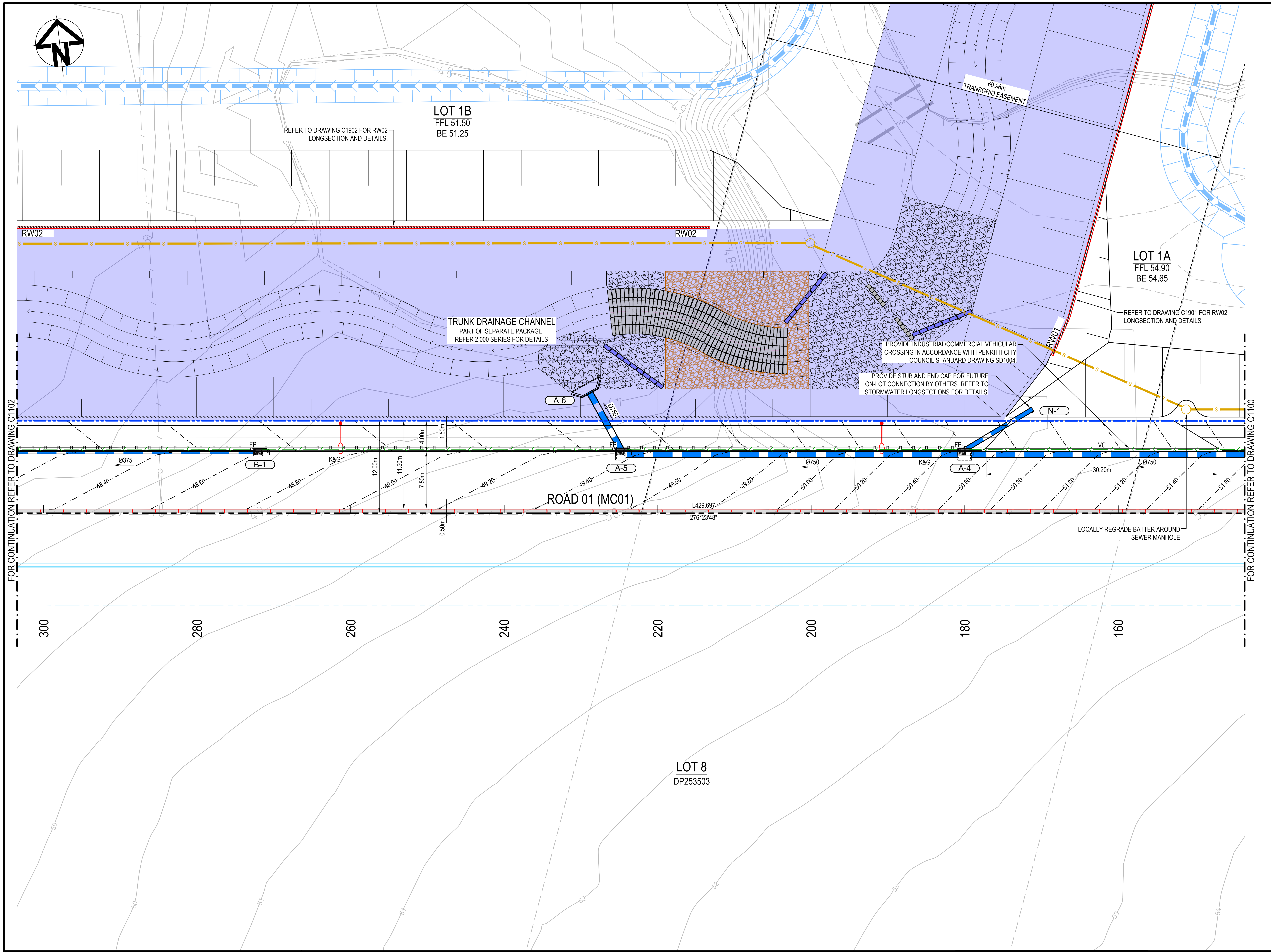
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1100
Issue
B

100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1100.dwg


LOT 1B
FFL 51.50
BE 51.25
REFER TO DRAWING C1902 FOR RW02 LONGSECTION AND DETAILS.
60.96m TRANSGRID EASEMENT
RW02
RW02
LOT 1A
FFL 54.90
BE 54.65
REFER TO DRAWING C1901 FOR RW02 LONGSECTION AND DETAILS.
RW01
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
PROVIDE INDUSTRIAL/COMMERCIAL VEHICULAR CROSSING IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARD DRAWING SD1004.
PROVIDE STUB AND END CAP FOR FUTURE ON-LOT CONNECTION BY OTHERS. REFER TO STORMWATER LONGSECTIONS FOR DETAILS.
A-6
Ø750
N-1
FP
FP
FP
VC
Ø375
B-1
K&G
A-5
Ø750
K&G
A-4
Ø750
30.20m
12.00m
11.50m
7.50m
4.00m
1.50m
0.50m
48.40
48.60
48.80
49.00
49.20
49.40
49.60
49.80
50.00
50.20
50.40
50.60
50.80
51.00
51.20
51.40
51.60
ROAD 01 (MC01)
L429.697
276°23'48"
LOCALLY REGRADE BATTER AROUND SEWER MANHOLE
FOR CONTINUATION REFER TO DRAWING C1102
FOR CONTINUATION REFER TO DRAWING C1100
300
280
260
240
220
200
180
160
LOT 8
DP253503
50
50
51
51
52
53
54

SITEWORKS LEGEND

	EXISTING BOUNDARY
	EXISTING EASEMENT
	PROPOSED BOUNDARY
RW01	PROPOSED RETAINING WALL AND NUMBER
48.00	PROPOSED CONTOUR
	PROPOSED BATTER SLOPE
K&G	PROPOSED KERB AND GUTTER
VC	PROPOSED DRIVEWAY LAYBACK
PR	PROPOSED KERB RAMP
	PROPOSED TRI-BEAM GUARDRAIL
L.O.W	LIMIT OF WORKS
	PROPOSED CATCH DRAIN
FP	PROPOSED SUBSOIL (100mm Ø) WITH FLUSHING POINT
☒	PROPOSED STORMWATER JUNCTION PIT
▤	PROPOSED STORMWATER JUNCTION PIT
	PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
	PROPOSED STORMWATER PIPE WITH HEADWALL
	PROPOSED CAPPED STORMWATER PIPE
A-1	PROPOSED STORMWATER PIT LABEL
Ø375	PROPOSED STORMWATER PIPE, DIRECTION AND SIZE
S	PROPOSED SEWER PIPE AND MANHOLE
	PROPOSED STREET LIGHTING
	500mm WIDE CONCRETE BARRIER
	TEMPORARY WATER FILLED BARRIER OR APPROVED EQUIVALENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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PERMISSION OF AT&L

Client
ICON
OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROADWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 2

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
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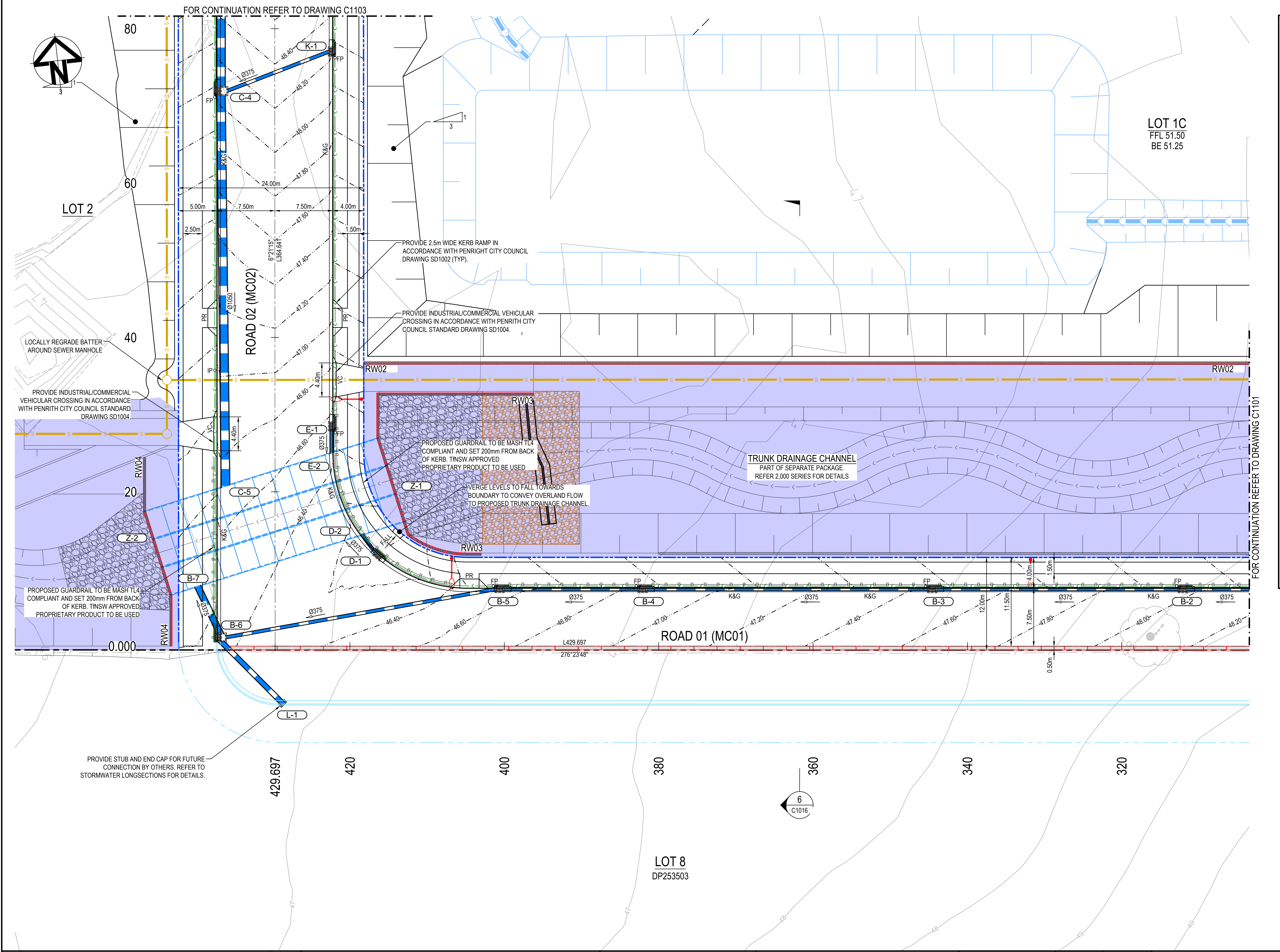
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1101

Issue
B


FOR CONTINUATION REFER TO DRAWING C1103
N
80
60
40
20
0.000
LOT 2
LOT 1C
FFL 51.50
BE 51.25
ROAD 02 (MC02)
ROAD 01 (MC01)
K-1
C-4
Ø375
24.00m
5.00m
7.50m
7.50m
4.00m
2.50m
1.50m
K&G
PR
VC
IP
FP
4.40m
PROVIDE 2.5m WIDE KERB RAMP IN ACCORDANCE WITH PENRITH CITY COUNCIL DRAWING SD1002 (TYP).
PROVIDE INDUSTRIAL/COMMERCIAL VEHICULAR CROSSING IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARD DRAWING SD1004.
LOCALLY REGRADE BATTER AROUND SEWER MANHOLE
PROVIDE INDUSTRIAL/COMMERCIAL VEHICULAR CROSSING IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARD DRAWING SD1004
RW02
RW03
RW04
E-1
E-2
C-5
Z-1
Z-2
D-1
D-2
B-7
B-6
B-5
B-4
B-3
B-2
L-1
PROPOSED GUARDRAIL TO BE MASH TL4 COMPLIANT AND SET 200mm FROM BACK OF KERB. TfNSW APPROVED PROPRIETARY PRODUCT TO BE USED
VERGE LEVELS TO FALL TOWARDS BOUNDARY TO CONVEY OVERLAND FLOW TO PROPOSED TRUNK DRAINAGE CHANNEL.
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
PROPOSED GUARDRAIL TO BE MASH TL4 COMPLIANT AND SET 200mm FROM BACK OF KERB. TfNSW APPROVED PROPRIETARY PRODUCT TO BE USED
FOR CONTINUATION REFER TO DRAWING C1101
12.00m
11.50m
7.50m
4.00m
1.50m
0.50m
L429.697
276°23'48"
PROVIDE STUB AND END CAP FOR FUTURE CONNECTION BY OTHERS. REFER TO STORMWATER LONGSECTIONS FOR DETAILS.
429.697
420
400
380
360
340
320
6
C1016
LOT 8
DP253503

SITEWORKS LEGEND

	EXISTING BOUNDARY
	EXISTING EASEMENT
	PROPOSED BOUNDARY
RW01	PROPOSED RETAINING WALL AND NUMBER
48.00	PROPOSED CONTOUR
	PROPOSED BATTER SLOPE
K&G	PROPOSED KERB AND GUTTER
VC	PROPOSED DRIVEWAY LAYBACK
PR	PROPOSED KERB RAMP
	PROPOSED TRI-BEAM GUARDRAIL
L.O.W	LIMIT OF WORKS
	PROPOSED CATCH DRAIN
FP	PROPOSED SUBSOIL (100mm Ø) WITH FLUSHING POINT
☒	PROPOSED STORMWATER JUNCTION PIT
▤	PROPOSED STORMWATER JUNCTION PIT
	PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
	PROPOSED STORMWATER PIPE WITH HEADWALL
	PROPOSED CAPPED STORMWATER PIPE
A-1	PROPOSED STORMWATER PIT LABEL
Ø375	PROPOSED STORMWATER PIPE, DIRECTION AND SIZE
S	PROPOSED SEWER PIPE AND MANHOLE
	PROPOSED STREET LIGHTING
	500mm WIDE CONCRETE BARRIER
	TEMPORARY WATER FILLED BARRIER OR APPROVED EQUIVALENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client

ICON OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROADWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 3

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
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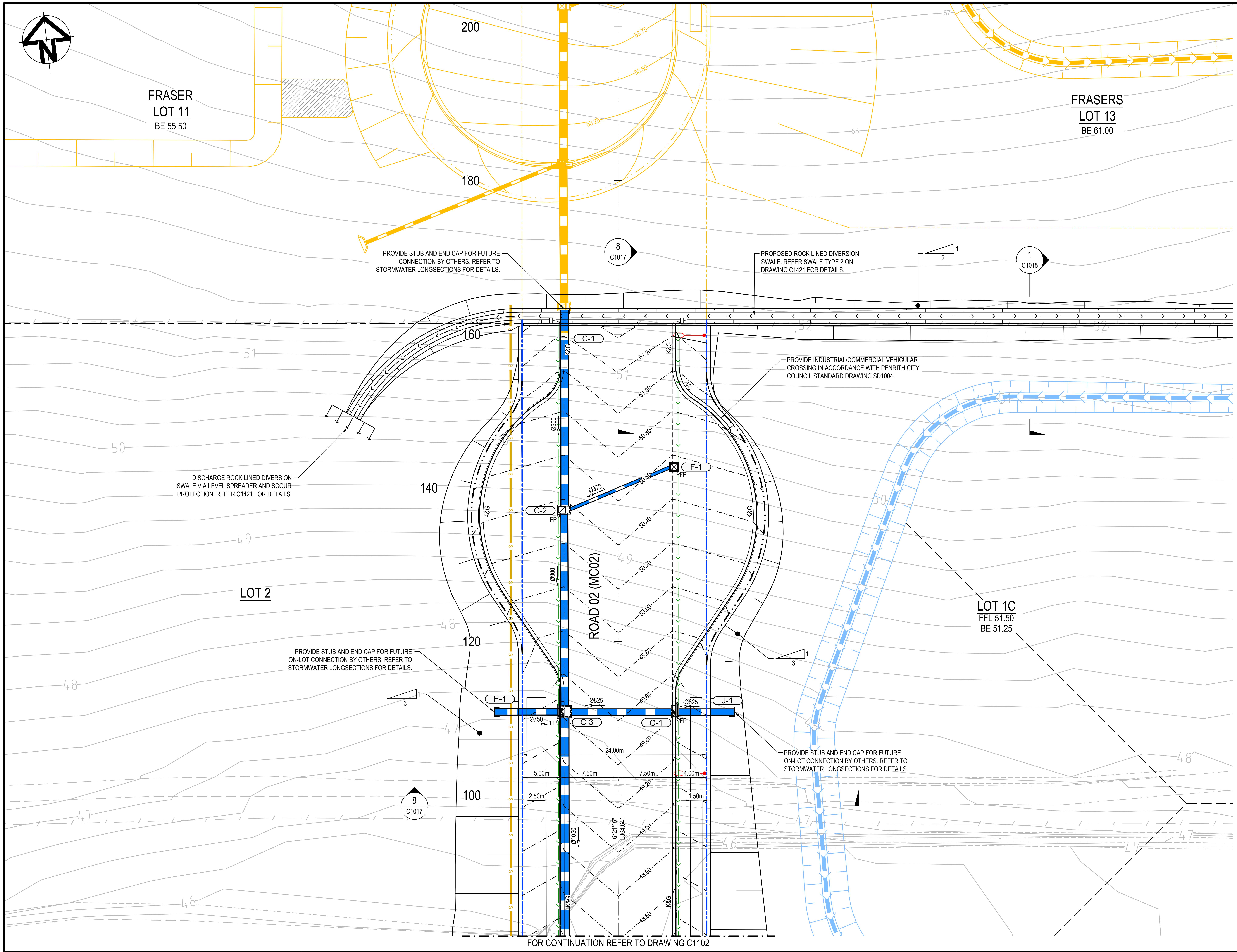
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1102

Issue
B


200
FRASER
LOT 11
BE 55.50
180
FRASERS
LOT 13
BE 61.00
PROVIDE STUB AND END CAP FOR FUTURE CONNECTION BY OTHERS. REFER TO STORMWATER LONGSECTIONS FOR DETAILS.
8
C1017
PROPOSED ROCK LINED DIVERSION SWALE. REFER SWALE TYPE 2 ON DRAWING C1421 FOR DETAILS.
1
C1015
160
C-1
PROVIDE INDUSTRIAL/COMMERCIAL VEHICULAR CROSSING IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARD DRAWING SD1004.
DISCHARGE ROCK LINED DIVERSION SWALE VIA LEVEL SPREADER AND SCOUR PROTECTION. REFER C1421 FOR DETAILS.
140
C-2
F-1
Ø900
Ø375
ROAD 02 (MC02)
LOT 2
LOT 1C
FFL 51.50
BE 51.25
120
PROVIDE STUB AND END CAP FOR FUTURE ON-LOT CONNECTION BY OTHERS. REFER TO STORMWATER LONGSECTIONS FOR DETAILS.
H-1
C-3
G-1
J-1
Ø825
Ø750
Ø1050
PROVIDE STUB AND END CAP FOR FUTURE ON-LOT CONNECTION BY OTHERS. REFER TO STORMWATER LONGSECTIONS FOR DETAILS.
24.00m
5.00m
7.50m
7.50m
4.00m
2.50m
1.50m
100
8
C1017
K&G
FP
51.20
51.00
50.80
50.60
50.40
50.20
50.00
49.80
49.60
49.40
49.20
49.00
48.80
48.60
6°21'15"
364.641

FOR CONTINUATION REFER TO DRAWING C1102

SITEWORKS LEGEND

EXISTING BOUNDARY
EXISTING EASEMENT
PROPOSED BOUNDARY
RW01 — PROPOSED RETAINING WALL AND NUMBER
48.00 — PROPOSED CONTOUR
PROPOSED BATTER SLOPE
K&G — PROPOSED KERB AND GUTTER
VC — PROPOSED DRIVEWAY LAYBACK
PR — PROPOSED KERB RAMP
PROPOSED TRI-BEAM GUARDRAIL
L.O.W — LIMIT OF WORKS
PROPOSED CATCH DRAIN
FP — PROPOSED SUBSOIL (100mm Ø) WITH FLUSHING POINT
☒ PROPOSED STORMWATER JUNCTION PIT
▤ PROPOSED STORMWATER JUNCTION PIT
PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
PROPOSED STORMWATER PIPE WITH HEADWALL
PROPOSED CAPPED STORMWATER PIPE
A-1 — PROPOSED STORMWATER PIT LABEL
Ø375 — PROPOSED STORMWATER PIPE, DIRECTION AND SIZE
S — PROPOSED SEWER PIPE AND MANHOLE
PROPOSED STREET LIGHTING
500mm WIDE CONCRETE BARRIER
TEMPORARY WATER FILLED BARRIER OR APPROVED EQUIVALENT

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client
ICON
OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROADWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 4

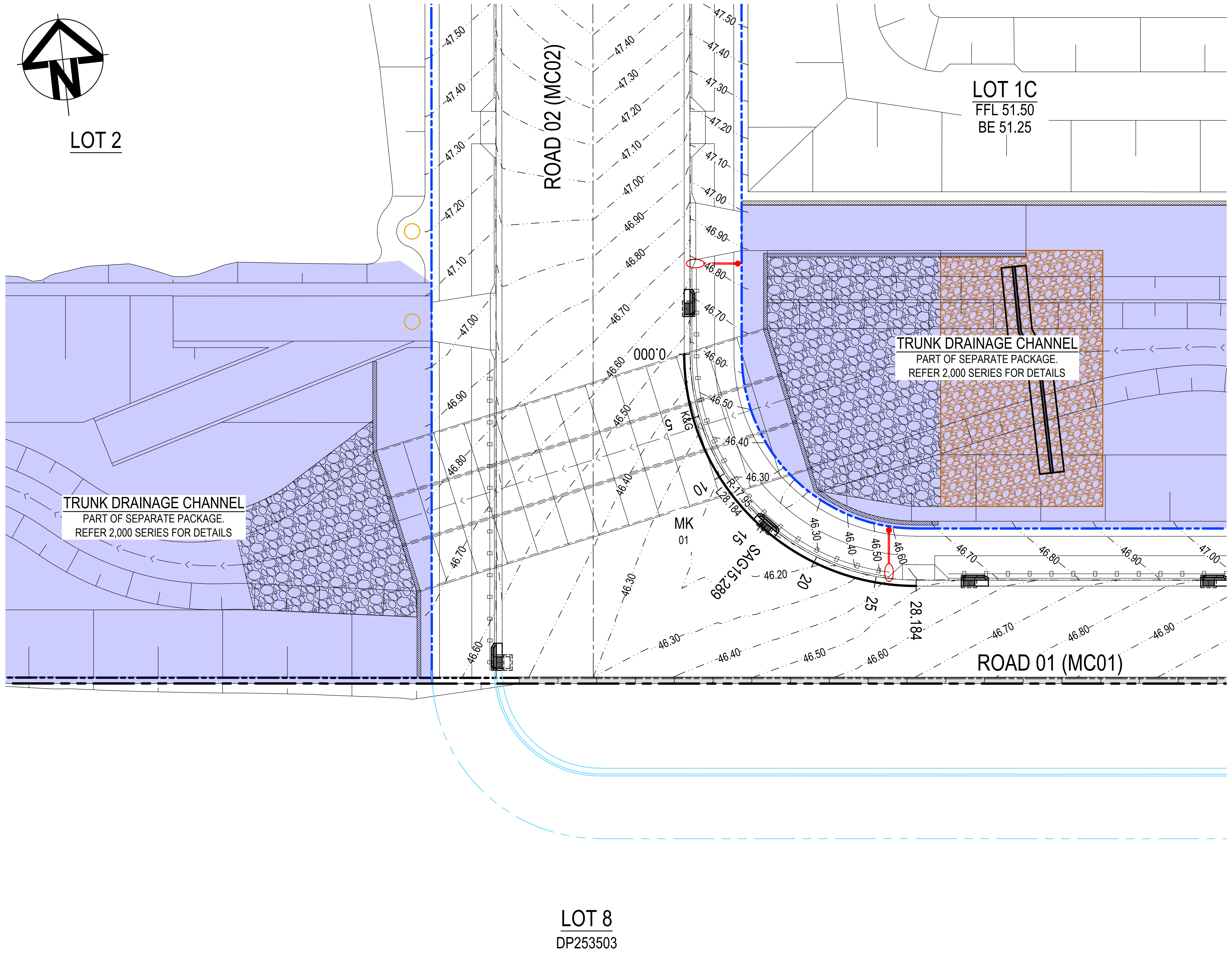
Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1103
Issue
B

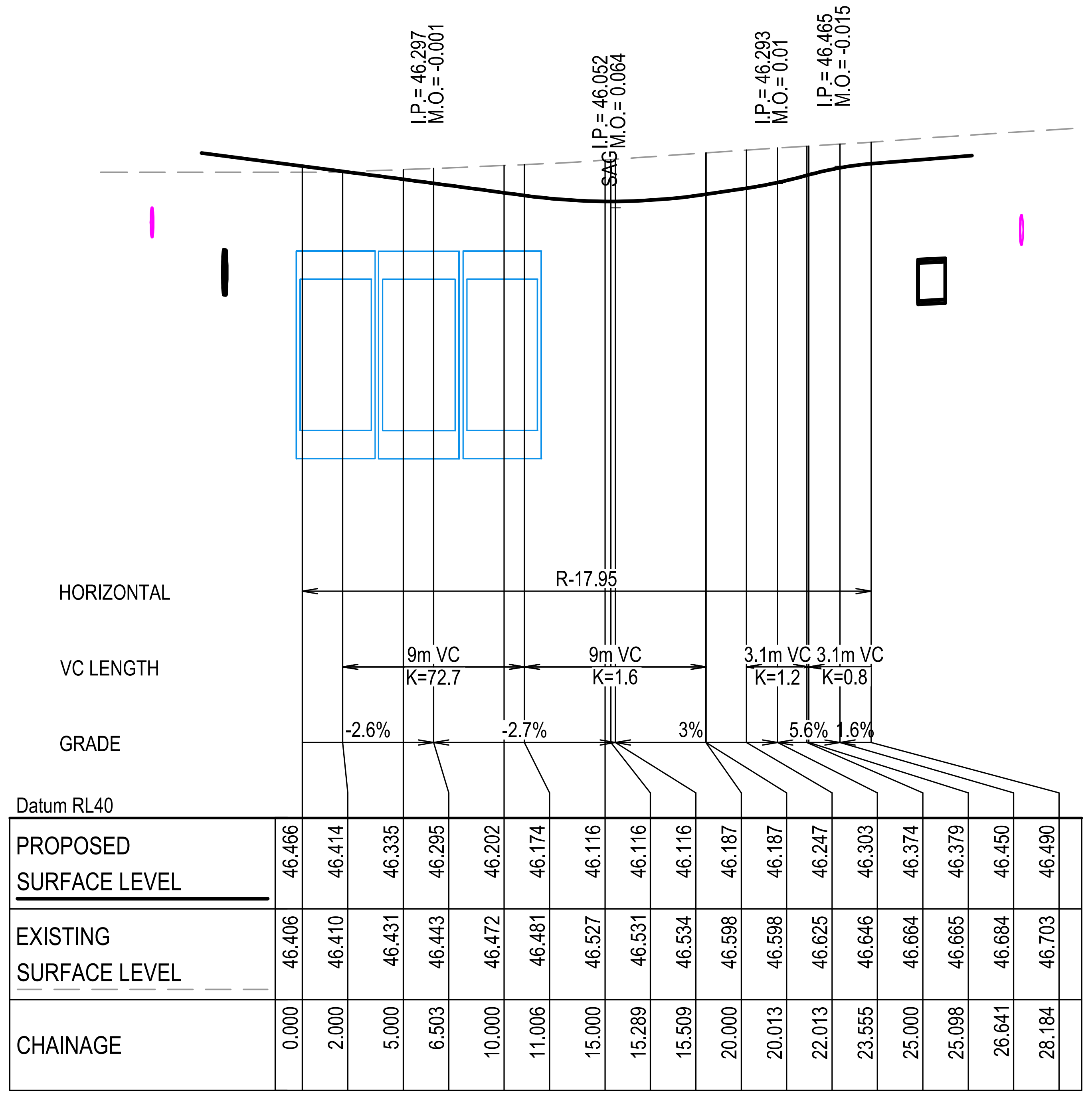
100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1103.dwg


N
LOT 2
ROAD 02 (MC02)
LOT 1C
FFL 51.50
BE 51.25
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
MK
01
0.000
5
10
15
20
25
28.184
SAG 15.289
ROAD 01 (MC01)
LOT 8
DP253503
47.50
47.40
47.30
47.20
47.10
47.00
46.90
46.80
46.70
46.60
46.50
46.40
46.30

PLAN

SCALE 1:250


I.P.= 46.297
M.O.= -0.001
I.P.= 46.052
M.O.= 0.064
SAG
I.P.= 46.293
M.O.= 0.01
I.P.= 46.465
M.O.= -0.015
HORIZONTAL
R-17.95
VC LENGTH
9m VC
K=72.7
9m VC
K=1.6
3.1m VC
K=1.2
3.1m VC
K=0.8
GRADE
-2.6%
-2.7%
3%
5.6%
1.6%
Datum RL40

PROPOSED SURFACE LEVEL	46.466	46.414	46.335	46.295	46.202	46.174	46.116	46.116	46.116	46.187	46.187	46.247	46.303	46.374	46.379	46.450	46.490
EXISTING SURFACE LEVEL	46.406	46.410	46.431	46.443	46.472	46.481	46.527	46.531	46.534	46.598	46.598	46.625	46.646	46.664	46.665	46.684	46.703
CHAINAGE	0.000	2.000	5.000	6.503	10.000	11.006	15.000	15.289	15.509	20.000	20.013	22.013	23.555	25.000	25.098	26.641	28.184

MK01 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

CONTROL MK01 SETOUT TABLE (LIP OF KERB)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295654.757	6251949.036	186°21'15.11"			
	5.000	295654.898	6251944.054	170°23'39.73"			
	10.000	295656.404	6251939.303	154°26'04.36"			
IP 2	14.092	295652.771	6251931.208		R = -17.950	28.184	89°57'41.90"
	15.000	295659.158	6251935.149	138°28'28.98"			
	20.000	295662.948	6251931.913	122°30'53.60"			
	25.000	295667.482	6251929.843	106°33'18.22"			
IP 3	28.184	295670.598	6251929.211	96°23'33.22"			

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

100mm on Original

Bar Scales

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
KERB RETURN
PLAN
SHEET 1

Civil Engineers and Project Managers

at&l

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North Sydney NSW 2060
ABN 96 130 882 405
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1110

Issue
A

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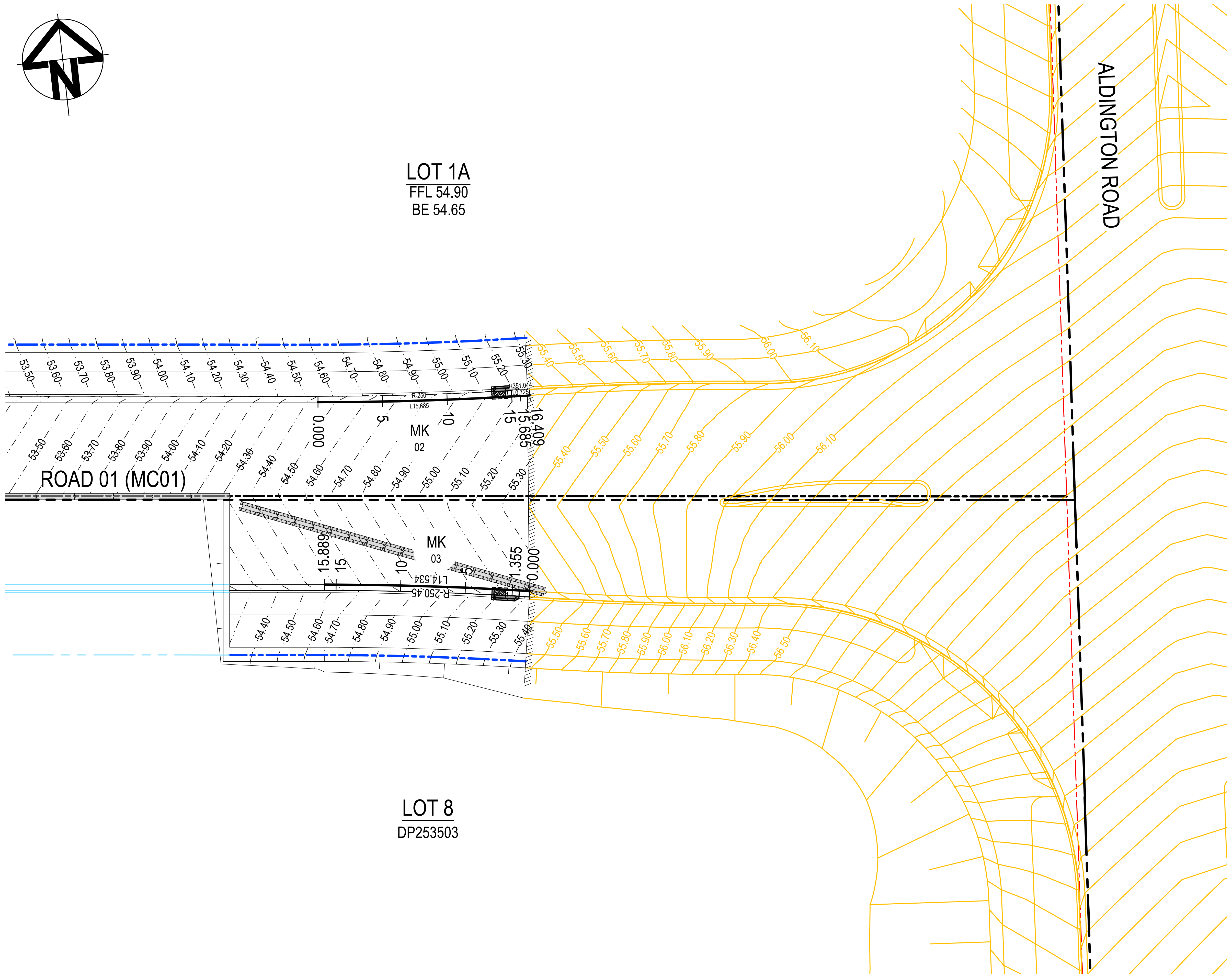
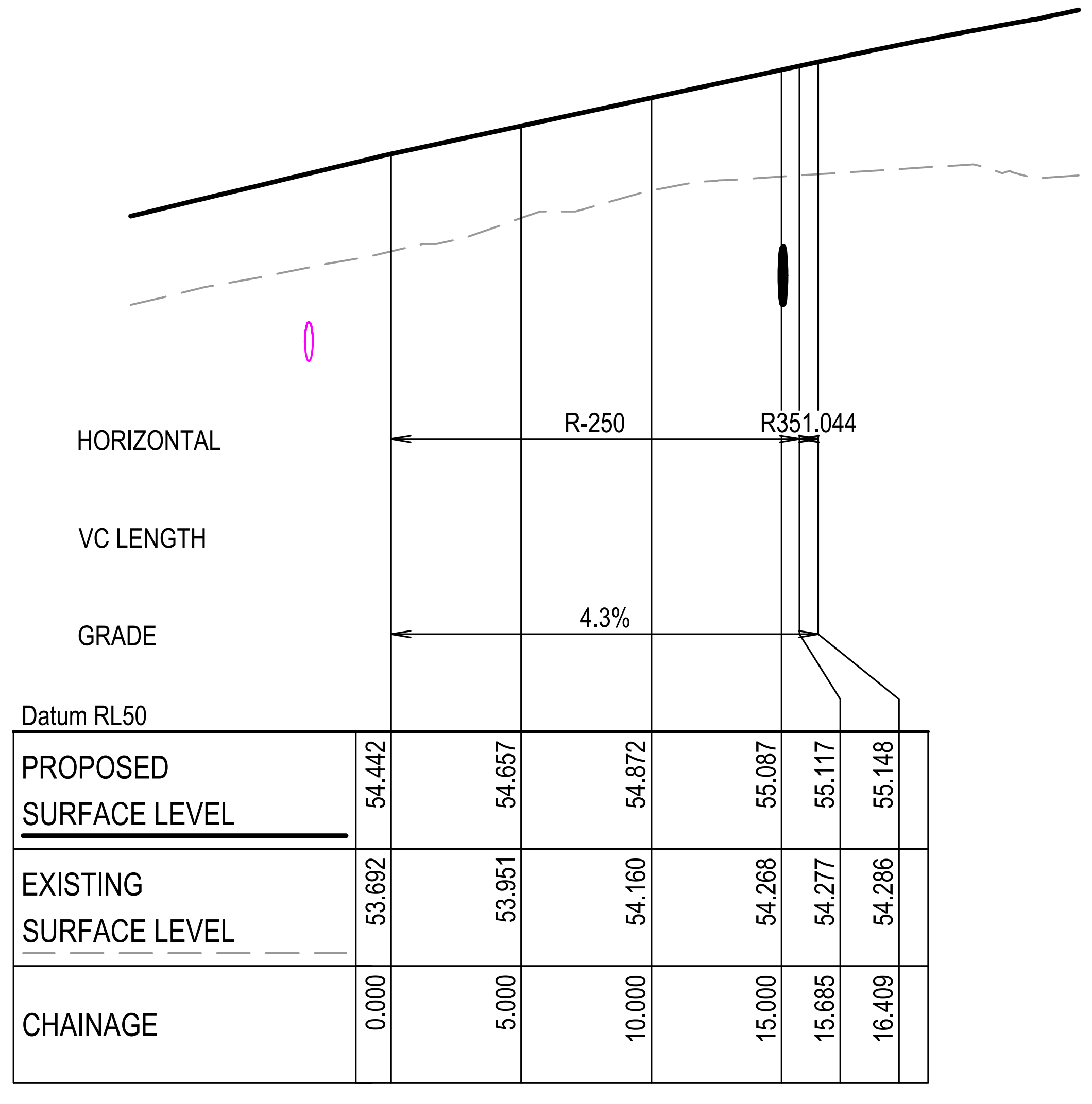


PLAN

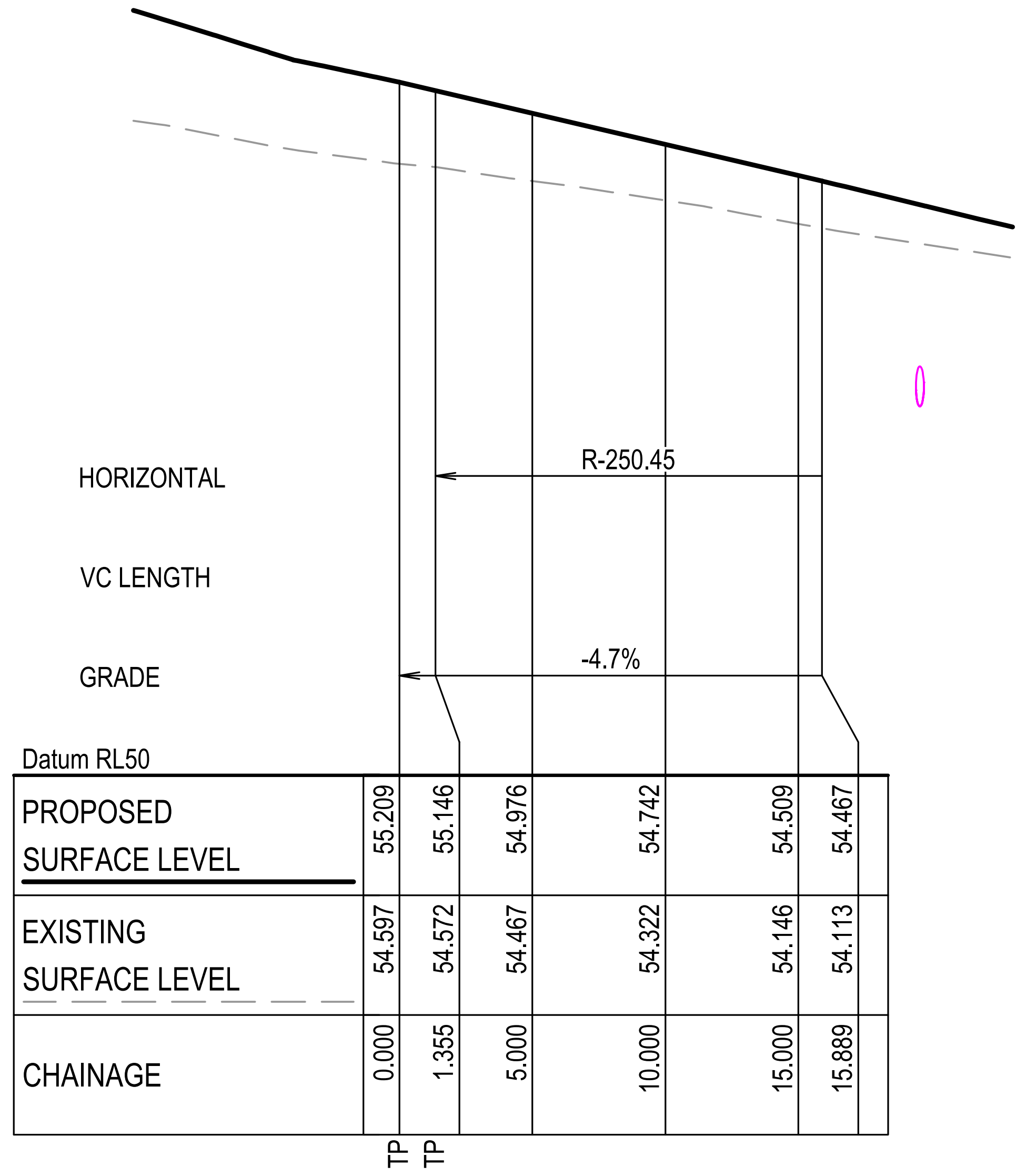
SCALE 1:250



HORIZONTAL	R-250			R351.044		
VC LENGTH						
GRADE	4.3%					
PROPOSED SURFACE LEVEL	54.442	54.657	54.872	55.087	55.117	55.148
EXISTING SURFACE LEVEL	53.692	53.951	54.160	54.268	54.277	54.286
CHAINAGE	0.000	5.000	10.000	15.000	15.685	16.409

MK02 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



HORIZONTAL		R-250.45				
VC LENGTH						
GRADE	-4.7%					
PROPOSED SURFACE LEVEL	55.209	55.146	54.976	54.742	54.509	54.467
EXISTING SURFACE LEVEL	54.597	54.572	54.467	54.322	54.146	54.113
CHAINAGE	0.000	1.355	5.000	10.000	15.000	15.889

MK03 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

CONTROL MK02 SETOUT TABLE (LIP OF KERB)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	296004.599	6251891.791	96°23'33.22"			
	5.000	296009.573	6251891.284	95°14'47.92"			
IP 2	7.842	296012.395	6251890.917		R = -250.000	15.685	3°35'40.71"
	10.000	296014.556	6251890.876	94°06'02.62"			
	15.000	296019.547	6251890.569	92°57'17.33"			
IP 3	15.685	296020.231	6251890.534				
IP 4	16.047	296020.592	6251890.517		R = 351.044	0.725	0°07'05.71"
IP 5	16.409	296020.954	6251890.498	92°54'58.88"			

CONTROL MK03 SETOUT TABLE (LIP OF KERB)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	296019.269	6251875.456	279°43'02.66"			
IP 2	1.355	296017.933	6251875.684				
	5.000	296014.336	6251876.273	278°53'01.08"			
IP 3	8.622	296010.768	6251876.911		R = -250.450	14.534	3°19'29.48"
	10.000	296009.389	6251876.996	277°44'23.20"			
	15.000	296004.428	6251877.620	276°35'45.32"			
IP 4	15.889	296003.545	6251877.721	276°23'33.21"			

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

100mm on Original

Bar Scales

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
KERB RETURN
PLAN
SHEET 2

Civil Engineers and Project Managers
at&l
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www.atl.net.au
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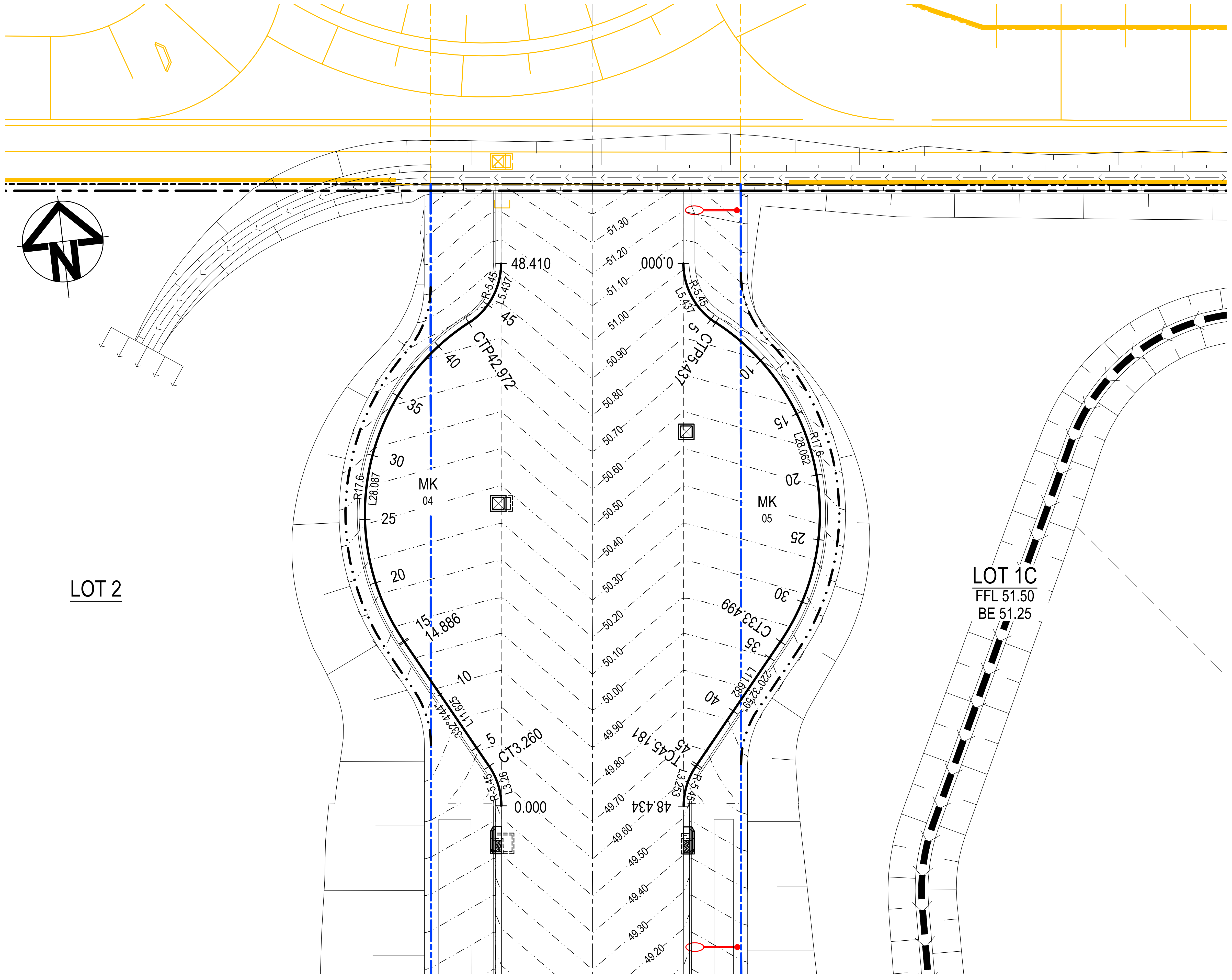
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

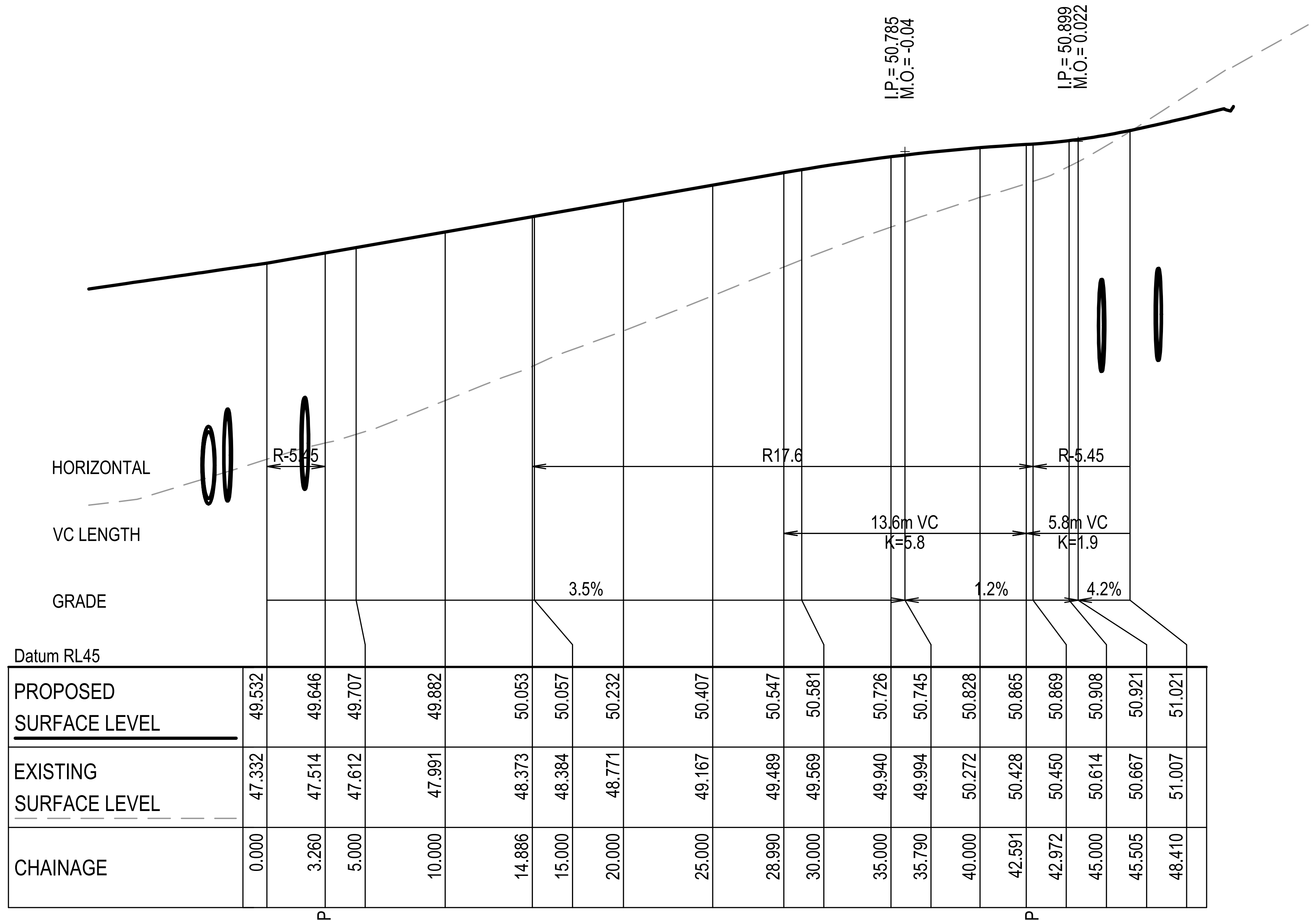
Project - Drawing No.
21-860-C1111

Issue
A


LOT 2
LOT 1C
FFL 51.50
BE 51.25
MK
04
MK
05
48.410
0.000
CTP42.972
CT3.260
14.886
R17.6
L28.087
R-5.45
L5.437
CTP5.437
CT33.499
TC45.181
48.434
R17.6
L28.062
0.000
5
10
15
20
25
30
35
40
45
51.30
51.20
51.10
51.00
50.90
50.80
50.70
50.60
50.50
50.40
50.30
50.20
50.10
50.00
49.90
49.80
49.70
49.60
49.50
49.40
49.30
49.20
N

PLAN

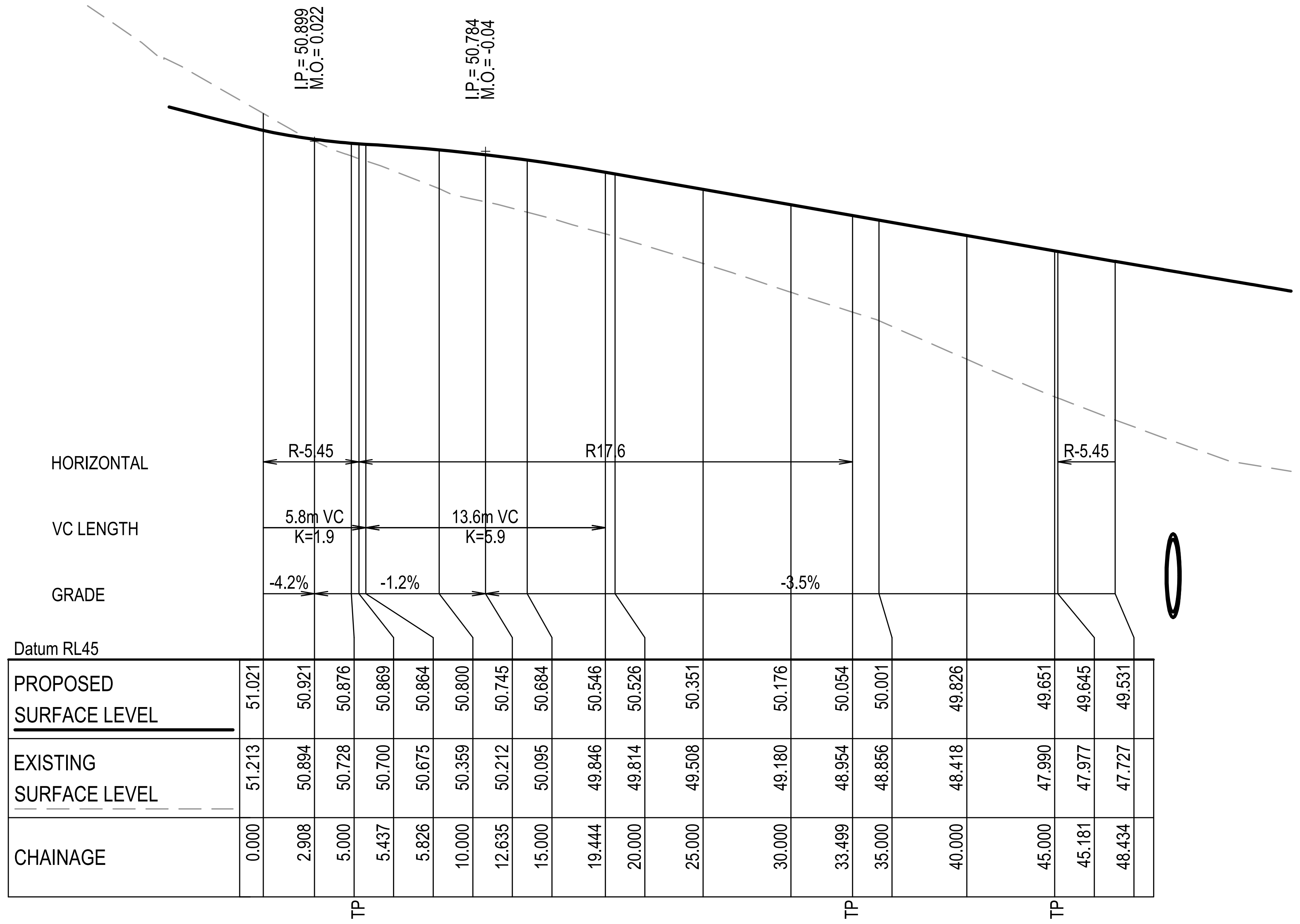
SCALE 1:250


I.P.= 50.785
M.O.= -0.04
I.P.= 50.899
M.O.= 0.022
HORIZONTAL
R-5.45
R17.6
R-5.45
VC LENGTH
13.6m VC
K=5.8
5.8m VC
K=1.9
GRADE
3.5%
1.2%
4.2%
Datum RL45
TP
TP

PROPOSED SURFACE LEVEL	49.532	49.646	49.707	49.882	50.053	50.057	50.232	50.407	50.547	50.581	50.726	50.745	50.828	50.865	50.869	50.908	50.921	51.021
EXISTING SURFACE LEVEL	47.332	47.514	47.612	47.991	48.373	48.384	48.771	49.167	49.489	49.569	49.940	49.994	50.272	50.428	50.450	50.614	50.667	51.007
CHAINAGE	0.000	3.260	5.000	10.000	14.886	15.000	20.000	25.000	28.990	30.000	35.000	35.790	40.000	42.591	42.972	45.000	45.505	48.410

MK04 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.


I.P.= 50.899
M.O.= 0.022
I.P.= 50.784
M.O.= -0.04
HORIZONTAL
R-5.45
R17.6
R-5.45
VC LENGTH
5.8m VC
K=1.9
13.6m VC
K=5.9
GRADE
-4.2%
-1.2%
-3.5%
Datum RL45
TP
TP
TP

PROPOSED SURFACE LEVEL	51.021	50.921	50.876	50.869	50.864	50.800	50.745	50.684	50.546	50.526	50.351	50.176	50.054	50.001	49.826	49.651	49.645	49.531
EXISTING SURFACE LEVEL	51.213	50.894	50.728	50.700	50.675	50.359	50.212	50.095	49.846	49.814	49.508	49.180	48.954	48.856	48.418	47.990	47.977	47.727
CHAINAGE	0.000	2.908	5.000	5.437	5.826	10.000	12.635	15.000	19.444	20.000	25.000	30.000	33.499	35.000	40.000	45.000	45.181	48.434

MK05 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

CONTROL MK04 SETOUT TABLE (LIP OF KERB)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295650.569	6252038.835	6°21'15.11"			
IP 2	1.630	295650.755	6252040.505		R = -5.450	3.260	34°16'31.30"
CT	3.260	295649.968	6252041.990	332°04'43.81"			
	5.000	295649.154	6252043.527	332°04'43.81"			
	10.000	295646.812	6252047.945	332°04'43.81"			
IP 3	14.886	295644.525	6252052.262				
	15.000	295644.472	6252052.363	332°27'03.90"			
	20.000	295642.815	6252057.063	348°43'41.85"			
	25.000	295642.543	6252062.039	5°00'19.81"			
IP 4	28.929	295636.074	6252068.208		R = 17.600	28.087	91°26'07.83"
	30.000	295643.676	6252066.892	21°16'57.76"			
	35.000	295646.124	6252071.232	37°33'35.72"			
	40.000	295649.690	6252074.712	53°50'13.67"			
CC	42.972	295652.227	6252076.256	63°30'50.02"			
	45.000	295653.834	6252077.473	42°11'55.32"			
IP 5	45.691	295654.884	6252077.580		R = -5.450	5.437	57°09'34.91"
IP 6	48.410	295655.213	6252080.531	6°21'15.11"			

CONTROL MK05 SETOUT TABLE (LIP OF KERB)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295669.226	6252078.970	186°21'15.11"			
IP 2	2.719	295668.897	6252076.020		R = -5.450	5.437	57°09'34.91"
	5.000	295670.871	6252074.433	133°47'21.35"			
CC	5.437	295671.198	6252074.143	129°11'40.20"			
	10.000	295674.323	6252070.836	144°02'56.04"			
	15.000	295676.649	6252066.429	160°19'33.99"			
IP 3	19.468	295685.165	6252062.755		R = 17.600	28.062	91°21'18.56"
	20.000	295677.645	6252061.546	176°36'11.94"			
	25.000	295677.233	6252056.580	192°52'49.90"			
	30.000	295675.446	6252051.928	209°09'27.85"			
CT	33.499	295673.449	6252049.061	220°32'58.76"			
	35.000	295672.474	6252047.921	220°32'58.76"			
	40.000	295669.223	6252044.122	220°32'58.76"			
	45.000	295665.973	6252040.323	220°32'58.76"			
TC	45.181	295665.855	6252040.185	220°32'58.76"			
IP 4	46.807	295664.765	6252038.911		R = -5.450	3.253	34°11'43.65"
IP 5	48.434	295664.580	6252037.245	186°21'15.11"			

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
KERB RETURN
LONGSECTIONS

Civil Engineers and Project Managers
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info@atl.net.au

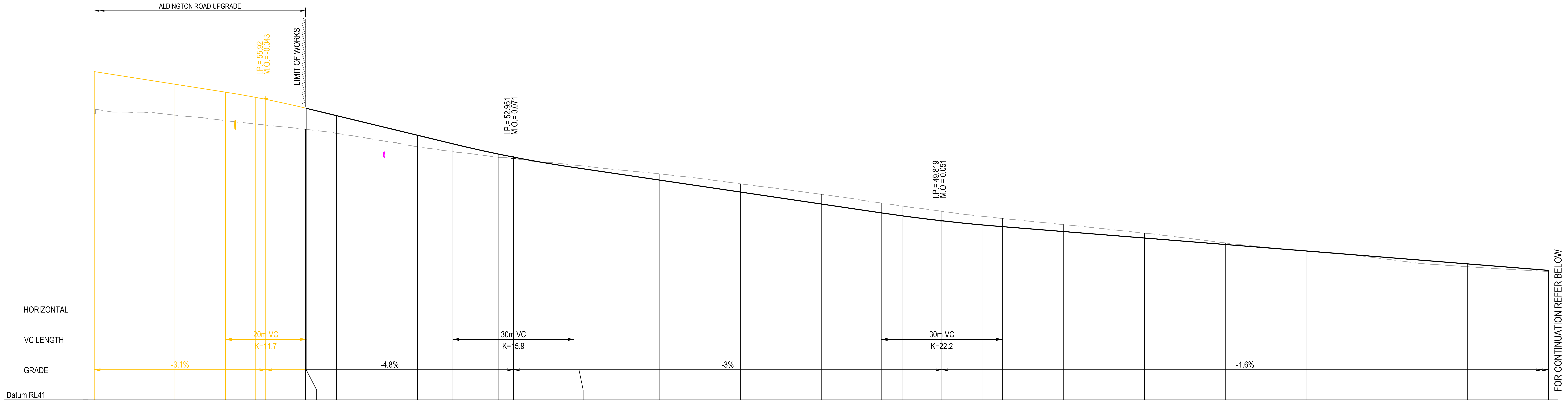
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1112

Issue
A

100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1112.dwg

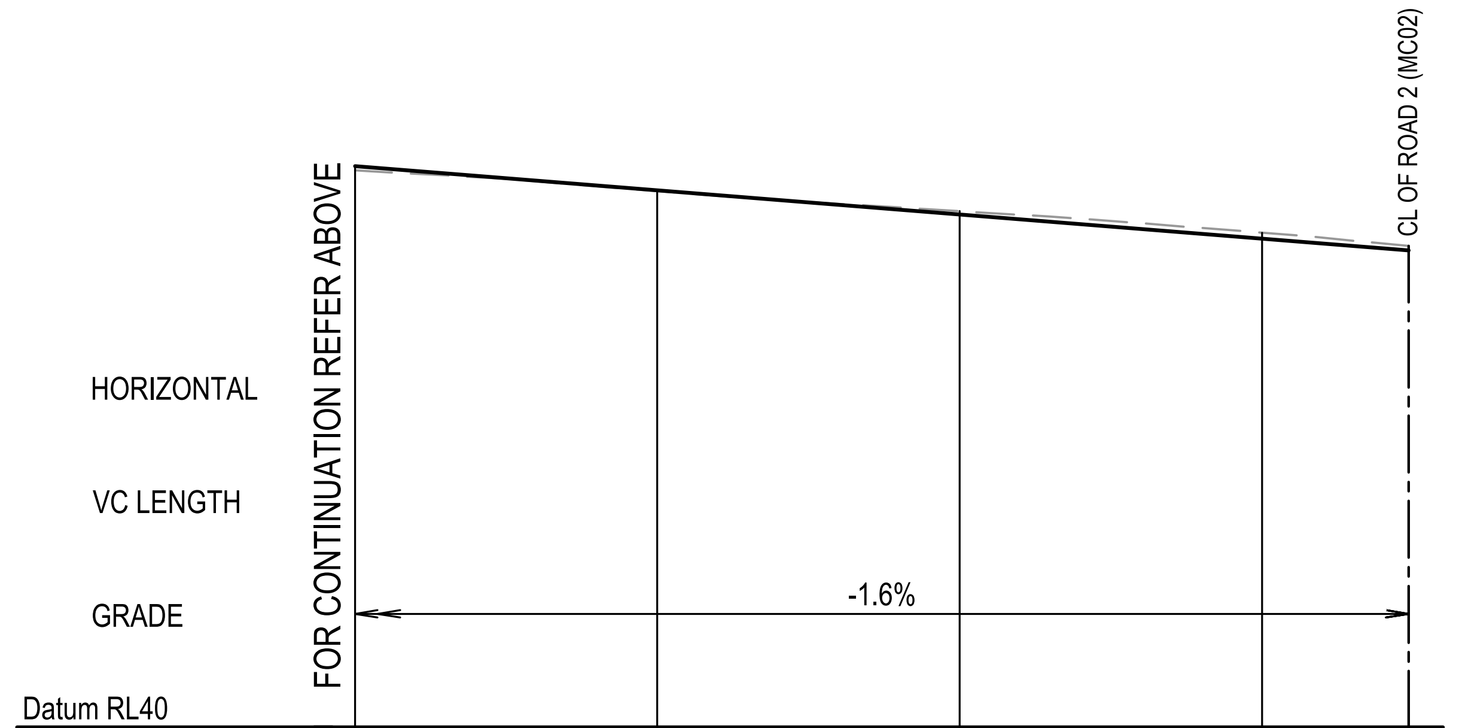

ALDINGTON ROAD UPGRADE
LIMIT OF WORKS
I.P.= 55.92
M.O.= -0.043
I.P.= 52.951
M.O.= 0.071
I.P.= 49.819
M.O.= 0.051
FOR CONTINUATION REFER BELOW
HORIZONTAL
VC LENGTH
GRADE
20m VC
K=11.7
30m VC
K=15.9
30m VC
K=22.2
-3.1%
-4.8%
-3%
-1.6%
Datum RL41

PROPOSED SURFACE LEVEL	57.250	56.624	56.233	55.973	55.877	55.442	55.436	55.071	54.103	53.677	53.174	53.022	52.508	52.472
EXISTING SURFACE LEVEL	55.195	55.097	54.826	54.659	54.604	54.3945	54.391	54.196	53.529	53.288	53.012	52.951	52.627	52.601
CHAINAGE	0.000	20.000	32.476	40.000	42.476	52.339	52.476	60.000	80.000	88.785	100.000	103.785	118.785	120.000

PROPOSED SURFACE LEVEL	51.881	51.291	50.700	50.262	50.115	49.870	49.662	49.579	49.336	49.016	48.696	48.376	48.056	47.736	47.416
EXISTING SURFACE LEVEL	52.191	51.698	51.180	50.750	50.601	50.341	50.089	49.985	49.681	49.258	48.774	48.392	47.971	47.596	47.361
CHAINAGE	140.000	160.000	180.000	194.826	200.000	209.826	220.000	224.826	240.000	260.000	280.000	300.000	320.000	340.000	360.000

TP

ROAD 01 (MC01) LONGITUDINAL SECTION
SCALE 1:500 HORI.
1:100 VERT.


CL OF ROAD 2 (MC02)
FOR CONTINUATION REFER ABOVE
HORIZONTAL
VC LENGTH
GRADE
-1.6%
Datum RL40

PROPOSED SURFACE LEVEL	47.416	47.096	46.776	46.456	46.301
EXISTING SURFACE LEVEL	47.361	47.087	46.822	46.537	46.361
CHAINAGE	360.000	380.000	400.000	420.000	429.697

ROAD 01 (MC01) LONGITUDINAL SECTION
SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client
ICON
OCEANIA

Scales AS SHOWN
Grid MGA2020
Height Datum AHD
GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROAD (MC01)
LONGITUDINAL SECTION

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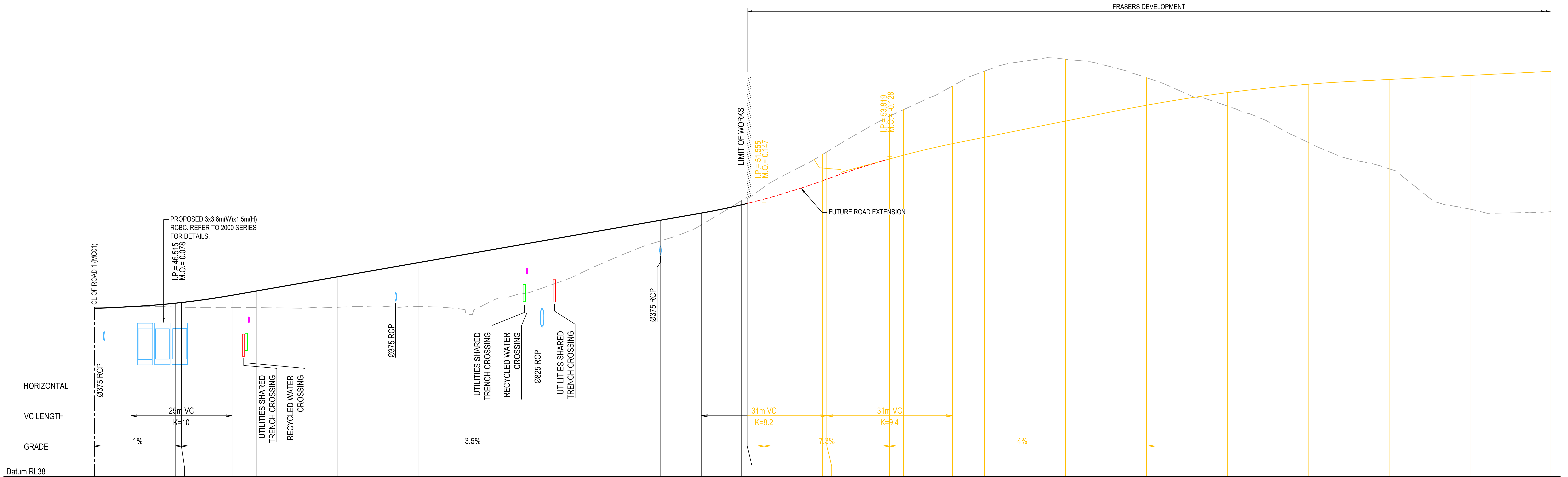
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1120
Issue
B

100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1120.dwg


FRASERS DEVELOPMENT
LIMIT OF WORKS
I.P.= 51.555
M.O.= 0.147
I.P.= 53.819
M.O.= -0.128
FUTURE ROAD EXTENSION
PROPOSED 3x3.6m(W)x1.5m(H)
RCBC. REFER TO 2000 SERIES
FOR DETAILS.
I.P.= 46.515
M.O.= 0.078
CL OF ROAD 1 (MC01)
Ø375 RCP
UTILITIES SHARED TRENCH CROSSING
RECYCLED WATER CROSSING
Ø375 RCP
UTILITIES SHARED TRENCH CROSSING
RECYCLED WATER CROSSING
Ø825 RCP
UTILITIES SHARED TRENCH CROSSING
Ø375 RCP
HORIZONTAL
VC LENGTH
GRADE
25m VC
K=10
31m VC
K=8.2
31m VC
K=9.4
1%
3.5%
7.3%
4%
Datum RL38

PROPOSED SURFACE LEVEL	46.300	46.390	46.560	46.593	46.953	47.162	47.862	48.562	49.262	49.962	50.662	51.012	51.423	51.488
EXISTING SURFACE LEVEL	46.361	46.384	46.376	46.367	46.354	46.340	46.359	46.401	46.815	48.026	49.640	50.432	51.639	51.736
CHAINAGE	0.000	9.027	20.000	21.527	34.027	40.000	60.000	80.000	100.000	120.000	140.000	149.996	160.000	161.355
	TP													

PROPOSED SURFACE LEVEL	51.702	52.612	52.687	53.691	53.879	54.440	54.756	55.556	56.356					
EXISTING SURFACE LEVEL	52.300	53.911	54.038	55.813	56.122	57.289	58.022	58.612	57.699	56.300	54.503	53.200	51.209	51.077
CHAINAGE	165.519	180.000	181.041	196.564	200.000	212.086	220.000	240.000	260.000	280.000	300.000	320.000	340.000	360.000

ROAD 02 (MC02) LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

100mm on Original

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OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROAD (MC02)
LONGITUDINAL SECTION

Civil Engineers and Project Managers
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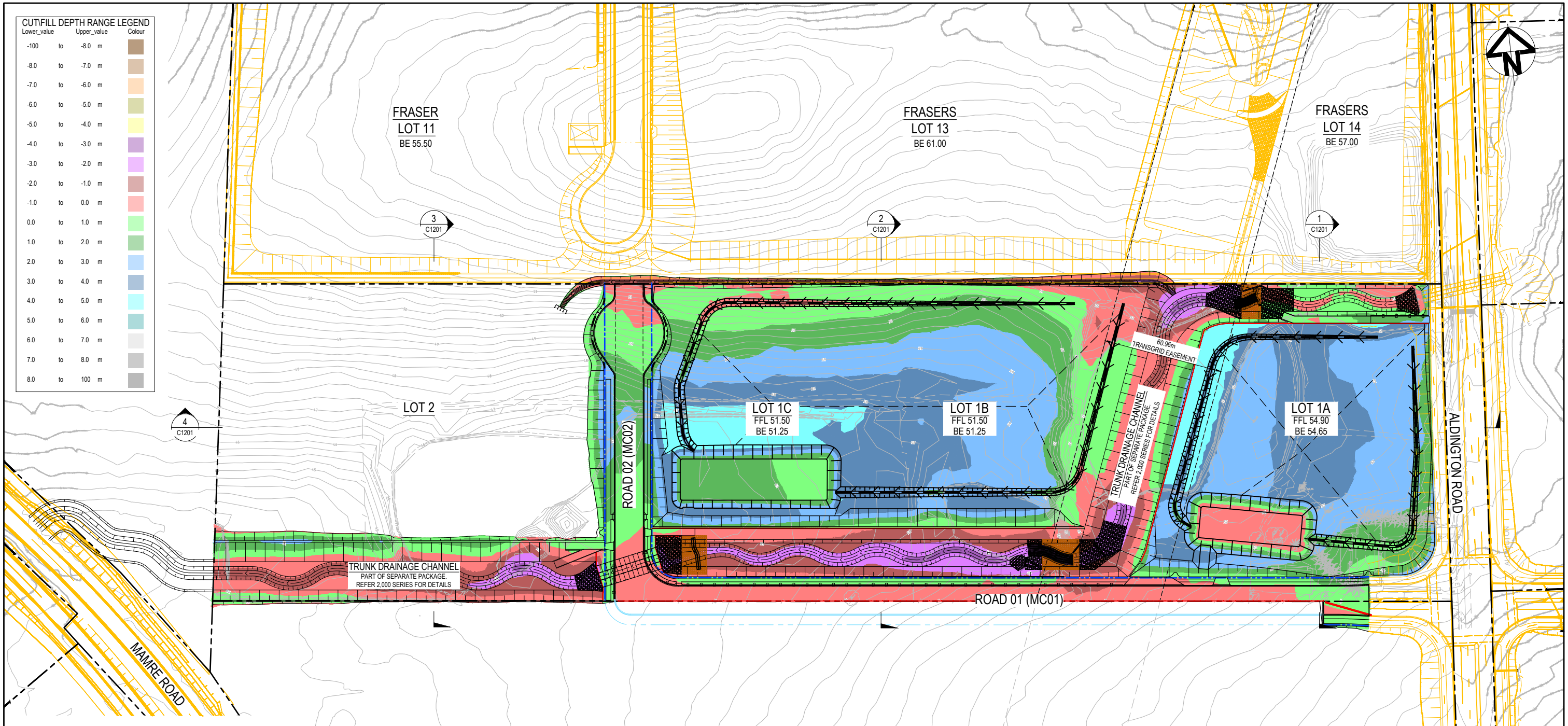
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1121

Issue
B


FRASER
LOT 11
BE 55.50
FRASERS
LOT 13
BE 61.00
FRASERS
LOT 14
BE 57.00
N
3
C1201
2
C1201
1
C1201
4
C1201
LOT 2
ROAD 02 (MC02)
LOT 1C
FFL 51.50
BE 51.25
LOT 1B
FFL 51.50
BE 51.25
LOT 1A
FFL 54.90
BE 54.65
60.96m
TRANSGRID EASEMENT
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE
REFER 2,000 SERIES FOR DETAILS
ALDINGTON ROAD
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE
REFER 2,000 SERIES FOR DETAILS
ROAD 01 (MC01)
MAMRE ROAD
LOT 8
DP253503

CUT\FILL DEPTH RANGE LEGEND

Lower_value		Upper_value		Colour
-100	to	-8.0	m	🟫
-8.0	to	-7.0	m	🟫
-7.0	to	-6.0	m	🟧
-6.0	to	-5.0	m	🟩
-5.0	to	-4.0	m	🟨
-4.0	to	-3.0	m	🟪
-3.0	to	-2.0	m	🟪
-2.0	to	-1.0	m	🟥
-1.0	to	0.0	m	🟥
0.0	to	1.0	m	🟩
1.0	to	2.0	m	🟩
2.0	to	3.0	m	🟦
3.0	to	4.0	m	🟦
4.0	to	5.0	m	🟦
5.0	to	6.0	m	🟦
6.0	to	7.0	m	⬜
7.0	to	8.0	m	⬜
8.0	to	100	m	⬜

NOTES

1. EXISTING TOPSOIL STRIPPED 200mm SITEWIDE. IT IS ASSUMED THAT ALL TOPSOIL FROM THE SITE WILL BE RE-USED ON SITE AS PER THE SPECIFICATION OF THE GEOTECHNICAL ENGINEER. EXCESS TOPSOIL WILL BE EXPORTED AS REQUIRED.
2. 1V:1H BATTER ALLOWANCE HAS BEEN MADE FOR RETAINING WALL BACKFILL MATERIAL (WALL TYPE AND CONSTRUCTION SEQUENCE TO BE CONFIRMED IN DETAILED DESIGN). BATTER EXTENTS NOT SHOWN ON DRAWING.
3. ADDITIONAL EXCAVATION OF EXISTING CREEKS AND DAMS WITHIN SITE AREA TO A DEPTH SPECIFIED BY BY GEOTECHNICAL CONSULTANT BELOW INVERT AND WIDTH OF EXISTING CREEK/DAM EXTENT.
   DEPTH OF DAMS ARE TO BE CONFIRMED IN DETAILED DESIGN PHASE. EXCAVATED MATERIAL TO BE FARMED AND USED AS GENERAL FILL WITHIN FILL ZONES 1m BELOW FINAL SURFACE (GEOTECHNICAL ENGINEER TO CONFIRM SUITABILITY OF MATERIAL).
4. POSITIVE BALANCE VOLUMES INDICATE SHORTFALL OF MATERIAL REQUIRED (IMPORT).
5. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-
   - BULKING FACTORS OF REMOVED CUT
   - REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
   - REMOVAL AND\OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
   - PROPOSED LANDSCAPING
   - STORMWATER AND UTILITY TRENCHING
6. BUILDING PADS HAVE BEEN GRADED FLAT AT NOM. BE LEVEL
7. PROPOSED PAVEMENT BOX OUT HAS BEEN SHOWN AT 700mm DEPTH. PAVEMENT DEPTH TO CONFIRMED DURING DETAILED DESIGN.

EARTHWORKS VOLUMES

A	C	D	E =A+B+C+D
EXISTING TOPSOIL STRIPPING VOLUME (cu.m) REFER NOTE No.1	NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-16,500	-24,650	114,200	89,550 (IMPORT)

Issue	Description	Date
C	ISSUED FOR APPROVAL	02-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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

ICON
OCEANIA

Scales	1:100	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
BULK EARTHWORKS
CUT\FILL
PLAN

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1200

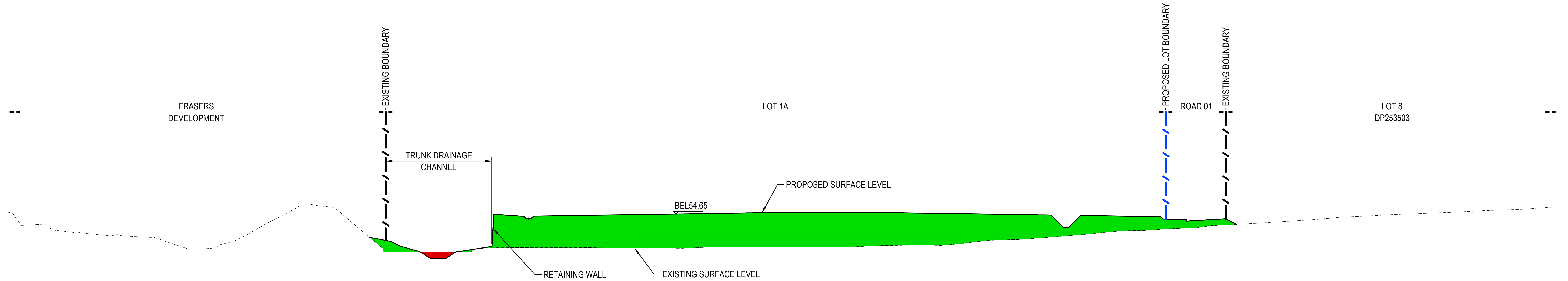
Issue
C

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1200.dwg

LEGEND

🟥 CUT

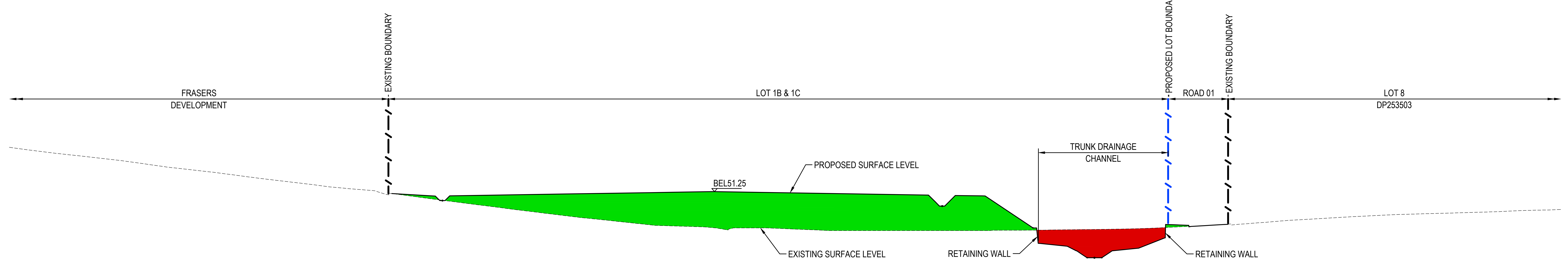
🟩 FILL



EXISTING BOUNDARY
PROPOSED LOT BOUNDARY
EXISTING BOUNDARY
FRASERS DEVELOPMENT
LOT 1A
ROAD 01
LOT 8 DP253503
TRUNK DRAINAGE CHANNEL
PROPOSED SURFACE LEVEL
BEL54.65
RETAINING WALL
EXISTING SURFACE LEVEL

SECTION 1 C1200

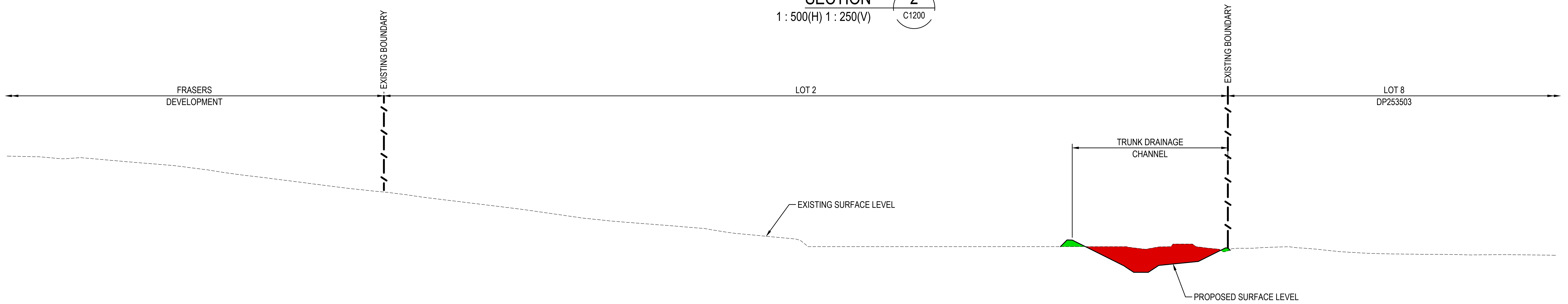
1 : 500(H) 1 : 250(V)



EXISTING BOUNDARY
PROPOSED LOT BOUNDARY
EXISTING BOUNDARY
FRASERS DEVELOPMENT
LOT 1B & 1C
ROAD 01
LOT 8 DP253503
TRUNK DRAINAGE CHANNEL
PROPOSED SURFACE LEVEL
BEL51.25
EXISTING SURFACE LEVEL
RETAINING WALL
RETAINING WALL

SECTION 2 C1200

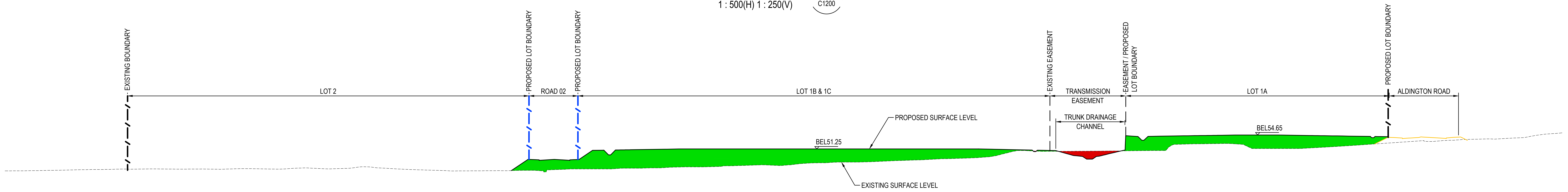
1 : 500(H) 1 : 250(V)



EXISTING BOUNDARY
EXISTING BOUNDARY
FRASERS DEVELOPMENT
LOT 2
LOT 8 DP253503
TRUNK DRAINAGE CHANNEL
EXISTING SURFACE LEVEL
PROPOSED SURFACE LEVEL

SECTION 3 C1200

1 : 500(H) 1 : 250(V)



EXISTING BOUNDARY
PROPOSED LOT BOUNDARY
PROPOSED LOT BOUNDARY
EXISTING EASEMENT
EASEMENT / PROPOSED LOT BOUNDARY
PROPOSED LOT BOUNDARY
LOT 2
ROAD 02
LOT 1B & 1C
TRANSMISSION EASEMENT
LOT 1A
ALDINGTON ROAD
TRUNK DRAINAGE CHANNEL
PROPOSED SURFACE LEVEL
BEL51.25
BEL54.65
EXISTING SURFACE LEVEL

SECTION 4 C1200

1 : 1000(H) 1 : 500(V)

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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

ICON OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

BULK EARTHWORKS
SECTIONS

Civil Engineers and Project Managers

at&l

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Status FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No. 21-860-C1201

Issue B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1201.dwg

FRASERS
LOT 11
FRASERS
LOT 13
N
LOT 2
LOT 1C
ROAD 02 (MC02)
FOR CONTINUATION REFER TO DRG C1301
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
ROAD 01 (MC01)
2
C1020
LOT 8
DP253503

PAVEMENT LEGEND

▢	PAVEMENT TYPE 1 - ROAD PAVEMENT 70mm THICKNESS AC14 (A15E, E=2700 Mpa) ON 7mm SPRAYED SEAL (CL170) 150mm THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON 175mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON 300mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 33%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).
▨	PAVEMENT TYPE 1A - CUL DE SAC HEAD PAVEMENT 75mm THICKNESS AC14 (A15E, E=2700 Mpa) ON 7mm SPRAYED SEAL (CL170) 150mm THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON 175mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON 300mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 33%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).
🟦	PAVEMENT TYPE 2 - INDUSTRIAL DRIVEWAY PAVEMENT 225mm THICKNESS CONCRETE (SL82 MESH TOP AND BOTTOM, 40 COVER MIN. SUPPORTED ON CHAIRS) ON 30mm THICKNESS COMPACTED SAND OR DGB20 SUBBASE NOTE: REFER PENRITH CITY COUNCIL STANDARD CONSTRUCTION SPECIFICATION SECTION 7.4 FOR DETAILS
🟥	PAVEMENT TYPE 3 - FOOTPATH PAVEMENT 125mm THICKNESS CONCRETE (SL72 MESH 30 TOP COVER MIN.) ON 25mm THICKNESS SAND BEDDING NOTE: REFER PENRITH CITY COUNCIL STANDARD DWG FOR JOINTING DETAILS

PAVEMENT DESIGN CRITERIA:

ASSUMED ESA = 1x10^{7}
ASSUMED CBR = 3.0% ; CBR TO BE CONFIRMED ON SITE IN ACCORDANCE WITH COUNCIL SPECIFICATIONS
IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS)

PAVEMENT NOTES:

- ALL PAVEMENT MATERIALS ARE TO SATISFY THE REQUIREMENTS OF THOSE STATED WITHIN THESE DRAWINGS AND PENRITH CITY COUNCILS SPECIFICATIONS WHICHEVER IS GREATER.
- THE CONTRACTOR IS TO ARRANGE FOR SAMPLING OF THE SUBGRADE WITHIN ROADS TO CONFIRM CBR AND PROVIDE A GEOTECHNICAL REPORT CONFIRMING THE PAVEMENT COMPOSITION IN COMPLIANCE WITH PCC SPECIFICATION SUPPORTED BY NATA ACCREDITED TEST RESULTS.
- WHERE CBR RESULTS ARE LESS THAN 3% AND INSITU LIME STABILISATION IS REQUIRED CBR SAMPLING IS TO BE COMPLETED POST INSITU LIME STABILISATION TO CONFIRM RESULTANT CBRS HAVE REACHED THE MINIMUM 3% REQUIREMENT. A GEOTECHNICAL REPORT SUPPORTED BY NATA ACCREDITED TEST RESULTS SHALL BE PROVIDED FOR VALIDATION.

Issue	Description	Date
D	ISSUED FOR APPROVAL	07-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client
ICON
OCEANIA

Scales	1:500	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
PAVEMENT PLAN
SHEET 1

Civil Engineers and Project Managers
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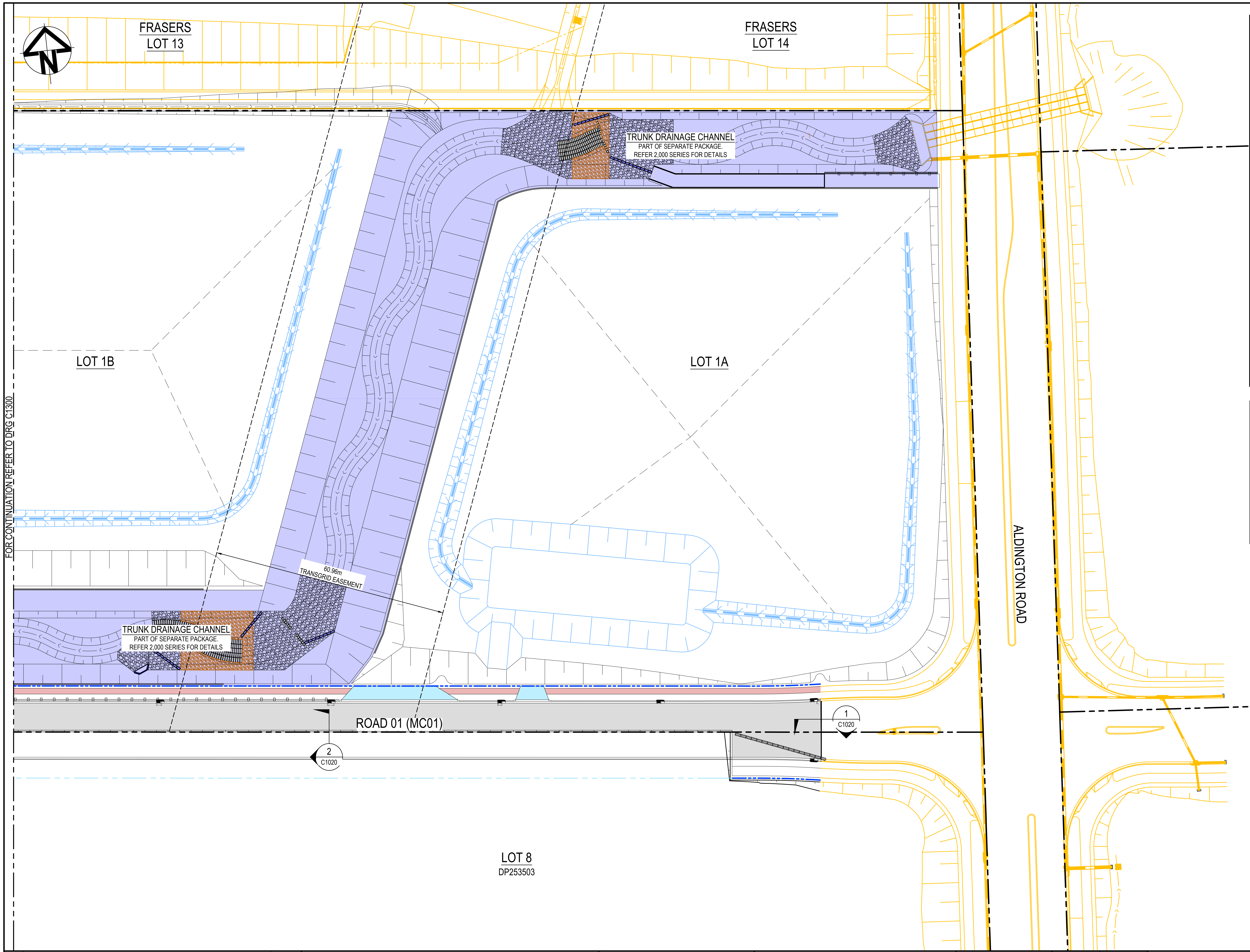
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1300
Issue
D



PAVEMENT LEGEND

⬜ PAVEMENT TYPE 1 - ROAD PAVEMENT
70mm THICKNESS AC14 (A15E, E=2700 Mpa) ON
7mm SPRAYED SEAL (CL170)
150mm THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON
175mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON
300mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 33%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).

▨ PAVEMENT TYPE 1A - CUL DE SAC HEAD PAVEMENT
75mm THICKNESS AC14 (A15E, E=2700 Mpa) ON
7mm SPRAYED SEAL (CL170)
150mm THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON
175mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON
300mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 33%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).

🟦 PAVEMENT TYPE 2 - INDUSTRIAL DRIVEWAY PAVEMENT
225mm THICKNESS CONCRETE (SL82 MESH TOP AND BOTTOM, 40 COVER MIN. SUPPORTED ON CHAIRS) ON
30mm THICKNESS COMPACTED SAND OR DGB20 SUBBASE
NOTE: REFER PENRITH CITY COUNCIL STANDARD CONSTRUCTION SPECIFICATION SECTION 7.4 FOR DETAILS

🟥 PAVEMENT TYPE 3 - FOOTPATH PAVEMENT
125mm THICKNESS CONCRETE (SL72 MESH 30 TOP COVER MIN.) ON
25mm THICKNESS SAND BEDDING
NOTE: REFER PENRITH CITY COUNCIL STANDARD DWG FOR JOINTING DETAILS

PAVEMENT DESIGN CRITERIA:

ASSUMED ESA = $1x10^7$
ASSUMED CBR = 3.0% ; CBR TO BE CONFIRMED ON SITE IN ACCORDANCE WITH COUNCIL SPECIFICATIONS
IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS)

PAVEMENT NOTES:

- ALL PAVEMENT MATERIALS ARE TO SATISFY THE REQUIREMENTS OF THOSE STATED WITHIN THESE DRAWINGS AND PENRITH CITY COUNCILS SPECIFICATIONS WHICHEVER IS GREATER.
- THE CONTRACTOR IS TO ARRANGE FOR SAMPLING OF THE SUBGRADE WITHIN ROADS TO CONFIRM CBR AND PROVIDE A GEOTECHNICAL REPORT CONFIRMING THE PAVEMENT COMPOSITION IN COMPLIANCE WITH PCC SPECIFICATION SUPPORTED BY NATA ACCREDITED TEST RESULTS.
- WHERE CBR RESULTS ARE LESS THAN 3% AND INSITU LIME STABILISATION IS REQUIRED CBR SAMPLING IS TO BE COMPLETED POST INSITU LIME STABILISATION TO CONFIRM RESULTANT CBRS HAVE REACHED THE MINIMUM 3% REQUIREMENT. A GEOTECHNICAL REPORT SUPPORTED BY NATA ACCREDITED TEST RESULTS SHALL BE PROVIDED FOR VALIDATION.

Issue	Description	Date
E	ISSUED FOR APPROVAL	07-10-25
D	ISSUED FOR APPROVAL	22-09-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
WITHOUT THE WRITTEN
PERMISSION OF AT&L

Client
ICON
OCEANIA

Scales	1:500	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
PAVEMENT PLAN
SHEET 2

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1301
Issue
E

PAVEMENT LINEMARKING LEGEND

TRAFFIC LANE WIDTH 4.0m

PAVEMENT MARKING SCHEDULE

EDGE LINES
E1 — E1
E5 — E5

LANE LINES
L1 — L1

BARRIER LINES
BB — BB

NO STOPPING LINES
C3 — C3

SEPARATION LINE
S5 — S5

SHARED PATH

PS-4 PS-3 PA-1

PS-3 PS-4 PA-1
S5 E7

SIGNAGE

PROPOSED SIGN POST LOCATION

PAVEMENT LINEMARKING NOTES:

- ALL SIGNAGE TO BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742.
- ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE TfNSW DELINEATION MANUALS.
- TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.
- RELOCATE/ REMOVE EXISTING SIGNS AS REQUIRED.
- REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.
- PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.
- ALL LINEMARKING TO BE WHITE IN COLOUR WITH THE EXCEPTION OF C2 AND C3 LINES AND LINEMARKING ON CONCRETE PAVEMENTS WHICH ARE TO BE YELLOW.
- ALL LINEMARKING TO BE IN ACCORDANCE WITH THE APPROVED ENGINEERING DRAWINGS ENDORSED BY THE LOCAL TRAFFIC COMMITTEE, AND SHALL BE INSTALLED PRIOR TO THE ISSUE OF A SUBDIVISION CERTIFICATE.

FRASERS
LOT 11
FRASERS
LOT 13
N
D4-2-3
NO STOPPING
R5-400 A
R8-2
R8-2
NO STOPPING
R5-400 A
R8-2
R8-2
FLOODWAY WARNING
RAIN MAY CAUSE FLOOD WATERS TO RISE
KEEP OFF THIS AREA DURING HEAVY RAIN
LOT 2
S5
C3
BB
L1
L1
C3
4.0m
3.5m
3.5m
4.0m
C1
ROAD 02 (MC02)
E1
S5
L1
BB
NO STOPPING
R5-400 A
MERGE RIGHT
W8-15 A
RIGHT LANE ENDS
W4-9
FORM 1 LANE
G9-15
LOT 1C
NO STOPPING
R5-400 A
FLOODWAY WARNING
RAIN MAY CAUSE FLOOD WATERS TO RISE
KEEP OFF THIS AREA DURING HEAVY RAIN
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
C3
BB
4.0m
3.5m
ROAD 01 (MC01)
C3
BB
FOR CONTINUATION REFER TO DRG C1351
D4-2-1 (R)
D4-2-1 (L)
LOT 8
DP253503
R5-400 A
NO STOPPING
SIGN POST TO BE FIXED TO TEMPORARY CONCRETE BARRIER
NO STOPPING
R5-400 A
NO STOPPING
R5-400 A
R5-400 A
NO STOPPING
SIGN POST TO BE FIXED TO TEMPORARY CONCRETE BARRIER

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client
ICON
OCEANIA

Scales	1:500	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
SIGNAGE AND LINEMARKING
PLAN
SHEET 1

Civil Engineers and Project Managers
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Tel: 02 9439 1777
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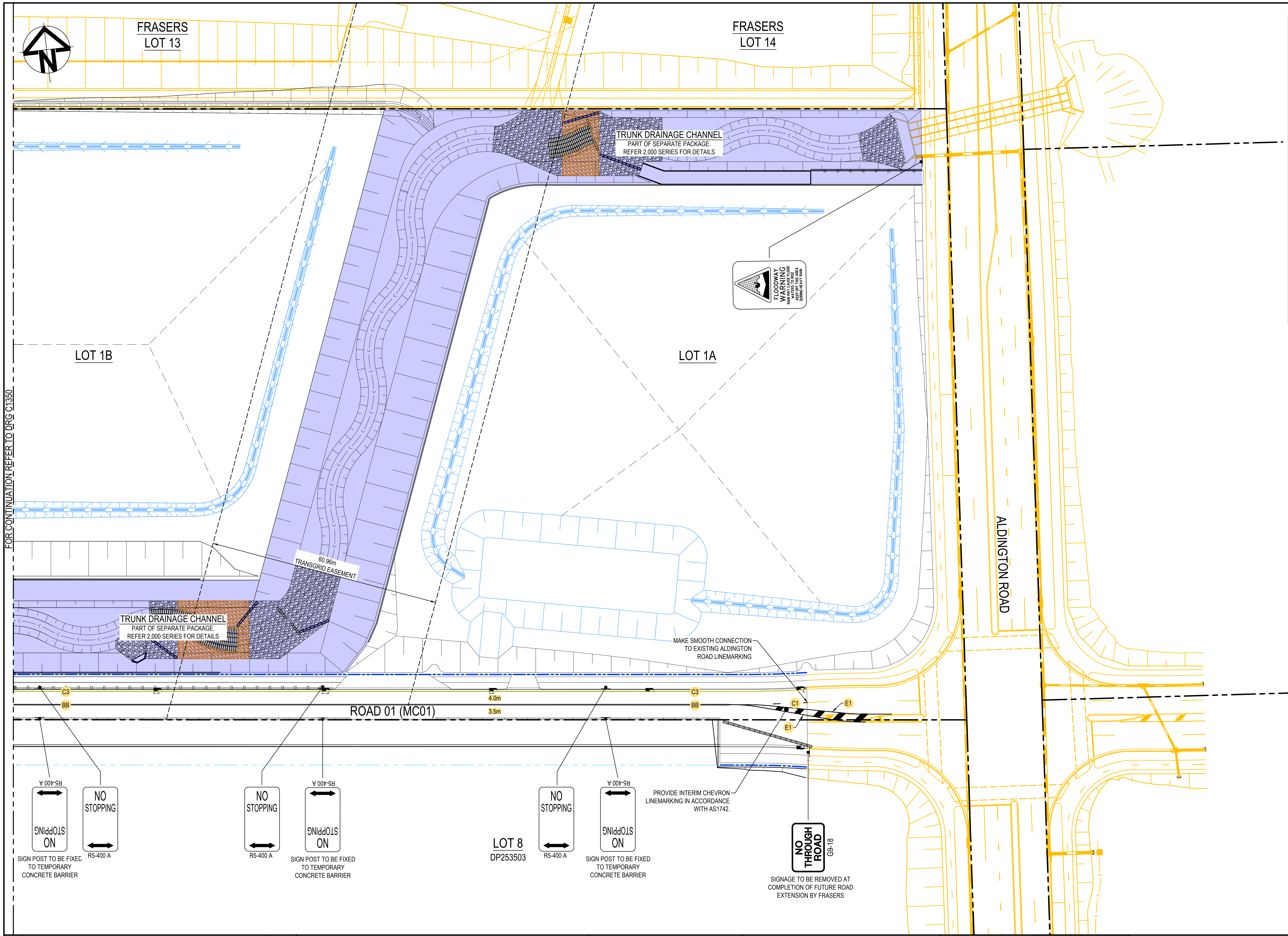
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1350

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1350.dwg


FRASERS
LOT 13
FRASERS
LOT 14
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
FLOODWAY
WARNING
RAIN MAY CAUSE FLOOD
WATERS TO RISE
KEEP OFF THIS AREA
DURING HEAVY RAIN
LOT 1B
LOT 1A
ALDINGTON ROAD
FOR CONTINUATION REFER TO DRG C1350
60.96m
TRANSGRID EASEMENT
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
MAKE SMOOTH CONNECTION
TO EXISTING ALDINGTON
ROAD LINEMARKING
C3
BB
4.0m
3.5m
ROAD 01 (MC01)
C3
BB
C1
E1
E1
R5-400 A
NO STOPPING
SIGN POST TO BE FIXED
TO TEMPORARY
CONCRETE BARRIER
NO
STOPPING
R5-400 A
NO
STOPPING
R5-400 A
R5-400 A
NO STOPPING
SIGN POST TO BE FIXED
TO TEMPORARY
CONCRETE BARRIER
LOT 8
DP253503
NO
STOPPING
R5-400 A
R5-400 A
NO STOPPING
SIGN POST TO BE FIXED
TO TEMPORARY
CONCRETE BARRIER
PROVIDE INTERIM CHEVRON
LINEMARKING IN ACCORDANCE
WITH AS1742.
NO
THROUGH
ROAD
G9-18
SIGNAGE TO BE REMOVED AT
COMPLETION OF FUTURE ROAD
EXTENSION BY FRASERS

PAVEMENT LINEMARKING LEGEND

TRAFFIC LANE WIDTH 4.0m

PAVEMENT MARKING SCHEDULE

EDGE LINES
E1 — E1
E5 — E5

LANE LINES
L1 — L1

BARRIER LINES
BB — BB

NO STOPPING LINES
C3 — C3

SEPARATION LINE
S5 — S5

SHARED PATH

PS-4
PS-3
PA-1
PS-3 PS-4 PA-1
S5 E7

SIGNAGE

● PROPOSED SIGN POST LOCATION

PAVEMENT LINEMARKING NOTES:

- ALL SIGNAGE TO BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742.
- ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE TfNSW DELINEATION MANUALS.
- TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.
- RELOCATE/ REMOVE EXISTING SIGNS AS REQUIRED.
- REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.
- PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.
- ALL LINEMARKING TO BE WHITE IN COLOUR WITH THE EXCEPTION OF C2 AND C3 LINES AND LINEMARKING ON CONCRETE PAVEMENTS WHICH ARE TO BE YELLOW.
- ALL LINEMARKING TO BE IN ACCORDANCE WITH THE APPROVED ENGINEERING DRAWINGS ENDORSED BY THE LOCAL TRAFFIC COMMITTEE, AND SHALL BE INSTALLED PRIOR TO THE ISSUE OF A SUBDIVISION CERTIFICATE.

Issue	Description	Date
C	ISSUED FOR APPROVAL	02-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client
ICON
OCEANIA

Scales	1:500	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
SIGNAGE AND LINEMARKING
PLAN
SHEET 2

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
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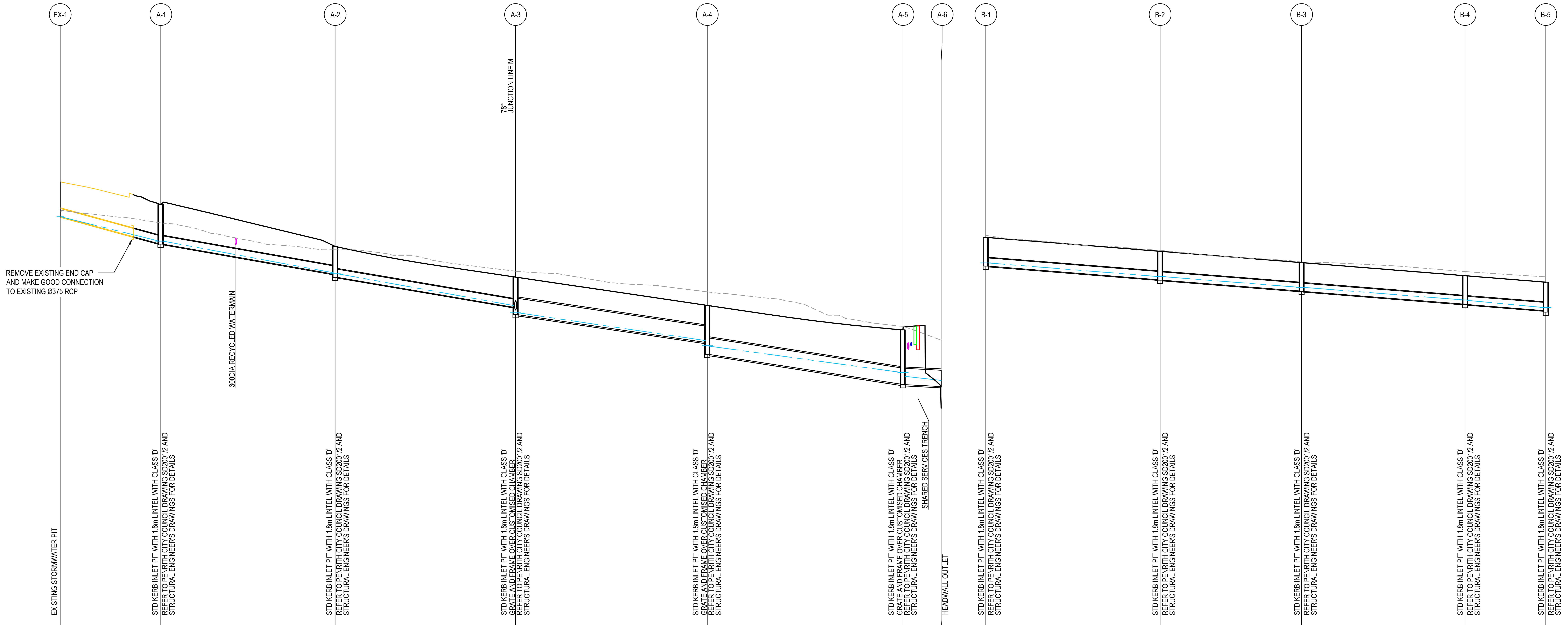
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1351
Issue
C

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1351.dwg


EX-1
A-1
A-2
A-3
A-4
A-5
A-6
B-1
B-2
B-3
B-4
B-5
78° JUNCTION LINE M
REMOVE EXISTING END CAP AND MAKE GOOD CONNECTION TO EXISTING Ø375 RCP
300DIA RECYCLED WATERMAIN
SHARED SERVICES TRENCH
EXISTING STORMWATER PIT
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
HEADWALL OUTLET
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS

LINE A

	EX-1 – A-1	A-1 – A-2	A-2 – A-3	A-3 – A-4	A-4 – A-5	A-5 – A-6
FLOW (m³/s)	0.02	0.07	0.08	0.10	0.40	0.41
VELOCITY (m/s)	2.1	2.6	2.7	2.8	1.7	2.5
PIPE SIZE & CLASS	Ø375 RRJ RCP 3	Ø375 RRJ RCP 3	Ø375 RRJ RCP 3	Ø750 RRJ RCP 3	Ø750 RRJ RCP 3	Ø750 RRJ RCP 3
GRADE (%)	5.4%	3.4%	3.3%	2.9%	3%	1%
Datum R.L	30.00					
CHAINAGE	L=23.093	L=40.005	L=41.413	L=44.007	L=44.914	L=8.751

	EX-1	A-1	A-2	A-3	A-4	A-5	A-6
DEPTH TO INVERT	1.596 1.596	1.789 1.809 1.809	1.268 1.419 1.419	1.386 1.724 1.724	1.698 2.251 2.251	2.495 2.515 2.515	0.750 0.750 0.750
H.G.L. LEVEL	54.520 54.524	53.515 53.453 53.453	51.995 51.981 51.950	50.486 50.140 50.140	48.856 48.637 48.587	47.401 47.401 47.205	47.024 47.024
INVERT LEVEL	54.524	53.285 53.265	51.890 51.739	50.365 50.026	48.751 48.198	46.832 46.812	46.724 46.724
TOP OF PIT LEVEL	56.120	55.074	53.158	51.750	50.449	49.327	47.474
EXISTING SURFACE LEVEL	54.773	54.232	53.000	52.020	51.071	49.492	48.852
CHAINAGE	-23.092	0.001	40.006	81.419	125.426	170.340	179.091

LINE B

	B-1 – B-2	B-2 – B-3	B-3 – B-4	B-4 – B-5
FLOW (m³/s)	0.02	0.04	0.05	0.07
VELOCITY (m/s)	0.6	0.9	1	1.9
PIPE SIZE & CLASS	Ø375 RRJ RCP 3	Ø375 RRJ RCP 3	Ø375 RRJ RCP 3	Ø375 RRJ RCP 3
GRADE (%)	1.6%	1.5%	1.5%	1.5%
Datum R.L	25.00			
CHAINAGE	L=40.000	L=32.476	L=37.517	L=18.534

	B-1	B-2	B-3	B-4	B-5
DEPTH TO INVERT	1.318 1.318	1.303 1.323 1.323	1.303 1.323 1.323	1.303 1.323 1.323	1.304 1.372
H.G.L. LEVEL	47.400 47.399	46.775 46.780 46.775	46.276 46.280 46.276	45.701 45.700 45.682	45.352 45.350
INVERT LEVEL	47.254	46.630 46.610	46.111 46.091	45.510 45.490	45.212
TOP OF PIT LEVEL	48.572	47.933	47.414	46.813	46.515
EXISTING SURFACE LEVEL	48.661	47.981	47.440	47.001	46.759
CHAINAGE	0.000	40.000	72.476	109.993	128.527

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

100mm on Original

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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1400

Issue
B

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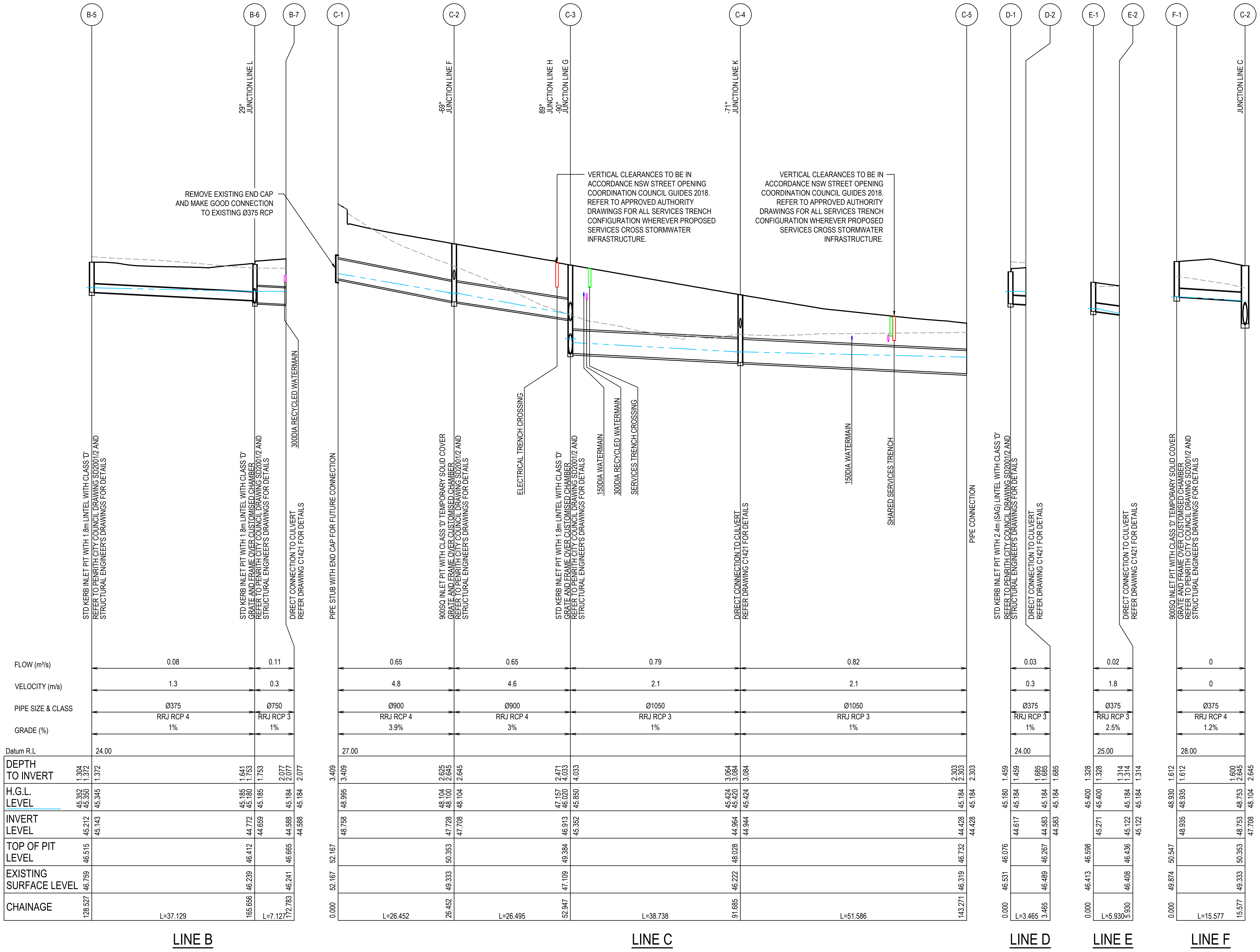
B-5
B-6
B-7
C-1
C-2
C-3
C-4
C-5
D-1
D-2
E-1
E-2
F-1
C-2
29° JUNCTION LINE L
-69° JUNCTION LINE F
89° JUNCTION LINE H
-90° JUNCTION LINE G
-71° JUNCTION LINE K
JUNCTION LINE C
REMOVE EXISTING END CAP AND MAKE GOOD CONNECTION TO EXISTING Ø375 RCP
VERTICAL CLEARANCES TO BE IN ACCORDANCE NSW STREET OPENING COORDINATION COUNCIL GUIDES 2018. REFER TO APPROVED AUTHORITY DRAWINGS FOR ALL SERVICES TRENCH CONFIGURATION WHEREVER PROPOSED SERVICES CROSS STORMWATER INFRASTRUCTURE.
VERTICAL CLEARANCES TO BE IN ACCORDANCE NSW STREET OPENING COORDINATION COUNCIL GUIDES 2018. REFER TO APPROVED AUTHORITY DRAWINGS FOR ALL SERVICES TRENCH CONFIGURATION WHEREVER PROPOSED SERVICES CROSS STORMWATER INFRASTRUCTURE.
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
300DIA RECYCLED WATERMAIN
DIRECT CONNECTION TO CULVERT REFER DRAWING C1421 FOR DETAILS
PIPE STUB WITH END CAP FOR FUTURE CONNECTION
900SQ INLET PIT WITH CLASS 'D' TEMPORARY SOLID COVER GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
ELECTRICAL TRENCH CROSSING
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
150DIA WATERMAIN
300DIA RECYCLED WATERMAIN
SERVICES TRENCH CROSSING
DIRECT CONNECTION TO CULVERT REFER DRAWING C1421 FOR DETAILS
150DIA WATERMAIN
SHARED SERVICES TRENCH
PIPE CONNECTION
STD KERB INLET PIT WITH 2.4m (SAG) LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
DIRECT CONNECTION TO CULVERT REFER DRAWING C1421 FOR DETAILS
DIRECT CONNECTION TO CULVERT REFER DRAWING C1421 FOR DETAILS
900SQ INLET PIT WITH CLASS 'D' TEMPORARY SOLID COVER GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
FLOW (m³/s)
VELOCITY (m/s)
PIPE SIZE & CLASS
GRADE (%)
Datum R.L
DEPTH TO INVERT
H.G.L. LEVEL
INVERT LEVEL
TOP OF PIT LEVEL
EXISTING SURFACE LEVEL
CHAINAGE
0.08
1.3
Ø375 RRJ RCP 4
1%
0.11
0.3
Ø750 RRJ RCP 3
1%
0.65
4.8
Ø900 RRJ RCP 4
3.9%
0.65
4.6
Ø900 RRJ RCP 4
3%
0.79
2.1
Ø1050 RRJ RCP 3
1%
0.82
2.1
Ø1050 RRJ RCP 3
1%
0.03
0.3
Ø375 RRJ RCP 3
1%
0.02
1.8
Ø375 RRJ RCP 3
2.5%
0
0
Ø375 RRJ RCP 4
1.2%
24.00
27.00
24.00
25.00
28.00
L=37.129
L=7.127
L=26.452
L=26.495
L=38.738
L=51.586
L=3.465
L=5.930
L=15.577
128.527
165.656
172.783
0.000
26.452
52.947
91.685
143.271
0.000
3.465
0.000
5.930
0.000
15.577
LINE B
LINE C
LINE D
LINE E
LINE F

B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25
Issue	Description	Date

100mm on Original

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client
ICON
OCEANIA

Scales AS SHOWN
Grid MGA2020
Height Datum AHD

Drawn ASD
Designed ASD
Checked MM
Approved

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER DRAINAGE
LONGITUDINAL SECTION
SHEET 2

Civil Engineers and Project Managers
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1401
Issue
B

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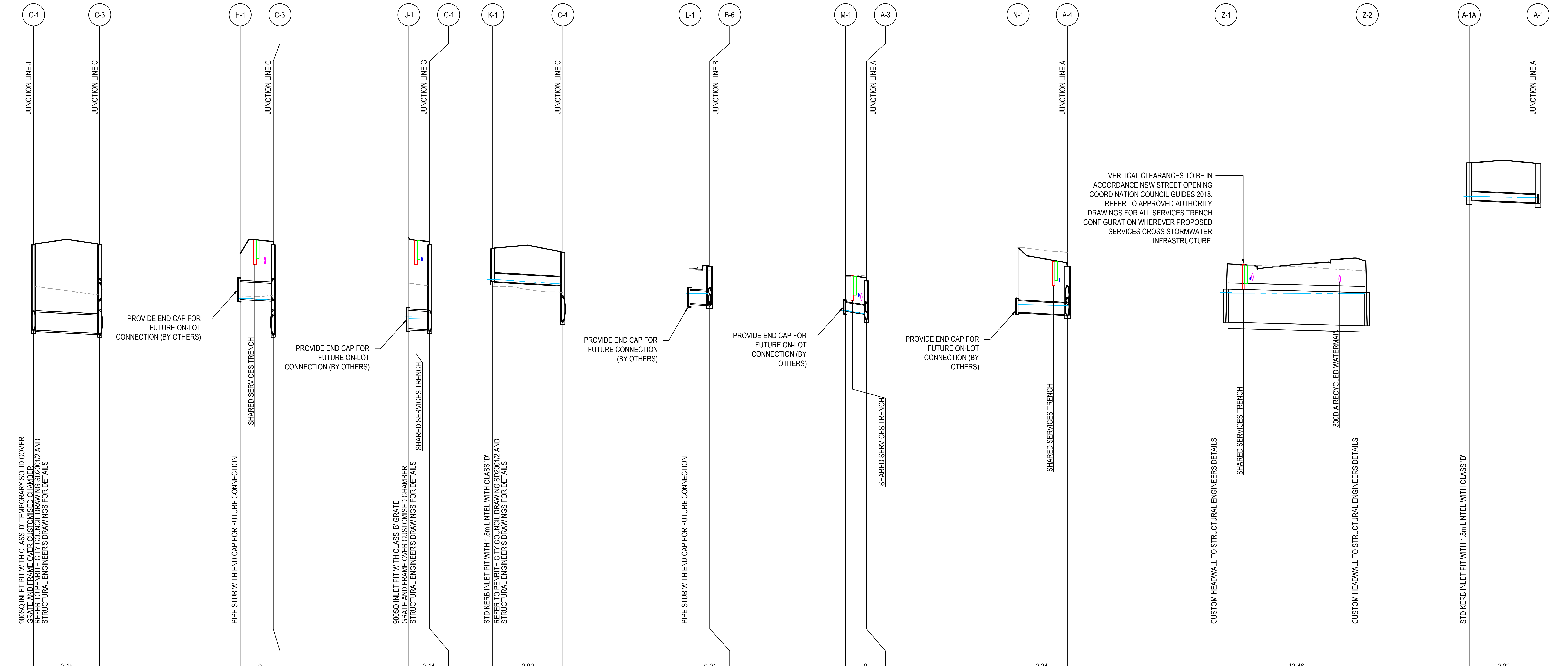
G-1
C-3
JUNCTION LINE J
JUNCTION LINE C
900SQ INLET PIT WITH CLASS 'D' TEMPORARY SOLID COVER GRATE AND FRAME OVER CUSTOMISED CHAMBER REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
PROVIDE END CAP FOR FUTURE ON-LOT CONNECTION (BY OTHERS)
H-1
C-3
JUNCTION LINE C
SHARED SERVICES TRENCH
PIPE STUB WITH END CAP FOR FUTURE CONNECTION
PROVIDE END CAP FOR FUTURE ON-LOT CONNECTION (BY OTHERS)
J-1
G-1
JUNCTION LINE G
SHARED SERVICES TRENCH
900SQ INLET PIT WITH CLASS 'B' GRATE GRATE AND FRAME OVER CUSTOMISED CHAMBER STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
K-1
C-4
JUNCTION LINE C
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D' REFER TO PENRITH CITY COUNCIL DRAWING SD2001/2 AND STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS
PROVIDE END CAP FOR FUTURE CONNECTION (BY OTHERS)
L-1
B-6
JUNCTION LINE B
PIPE STUB WITH END CAP FOR FUTURE CONNECTION
PROVIDE END CAP FOR FUTURE ON-LOT CONNECTION (BY OTHERS)
M-1
A-3
JUNCTION LINE A
SHARED SERVICES TRENCH
PROVIDE END CAP FOR FUTURE ON-LOT CONNECTION (BY OTHERS)
N-1
A-4
JUNCTION LINE A
SHARED SERVICES TRENCH
VERTICAL CLEARANCES TO BE IN ACCORDANCE NSW STREET OPENING COORDINATION COUNCIL GUIDES 2018. REFER TO APPROVED AUTHORITY DRAWINGS FOR ALL SERVICES TRENCH CONFIGURATION WHEREVER PROPOSED SERVICES CROSS STORMWATER INFRASTRUCTURE.
Z-1
Z-2
SHARED SERVICES TRENCH
300DIA RECYCLED WATERMAIN
CUSTOM HEADWALL TO STRUCTURAL ENGINEERS DETAILS
CUSTOM HEADWALL TO STRUCTURAL ENGINEERS DETAILS
A-1A
A-1
JUNCTION LINE A
STD KERB INLET PIT WITH 1.8m LINTEL WITH CLASS 'D'

LINE G

FLOW (m³/s)		0.45		
VELOCITY (m/s)		1.3		
PIPE SIZE & CLASS		Ø825 RRJ RCP 4		
GRADE (%)		1%		
Datum R.L		26.00		
DEPTH TO INVERT	3.862	3.862	4.013 4.033	4.033
H.G.L. LEVEL	46.030	46.025	46.020	45.850
INVERT LEVEL		45.522	45.372	45.352
TOP OF PIT LEVEL	49.384		49.384	
EXISTING SURFACE LEVEL	47.515		47.109	
CHAINAGE	0.000	L=15.000	15.000	

LINE H

FLOW (m³/s)		0		
VELOCITY (m/s)		0		
PIPE SIZE & CLASS		Ø750 RRJ RCP 3		
GRADE (%)		1%		
Datum R.L		26.00		
DEPTH TO INVERT	2.010	2.010	2.495 4.033	4.033
H.G.L. LEVEL	46.960	46.964	46.889	45.850
INVERT LEVEL		46.964	46.889	45.352
TOP OF PIT LEVEL	48.974		49.384	
EXISTING SURFACE LEVEL	47.065		47.109	
CHAINAGE	0.000	L=7.502	7.502	

LINE J

FLOW (m³/s)		0.44		
VELOCITY (m/s)		1.5		
PIPE SIZE & CLASS		Ø825 RRJ RCP 3		
GRADE (%)		1%		
Datum R.L		26.00		
DEPTH TO INVERT	4.108	4.108	3.842 3.862	3.862
H.G.L. LEVEL	46.120	46.039	46.026	46.025
INVERT LEVEL		45.589	45.542	45.522
TOP OF PIT LEVEL	49.697		49.384	
EXISTING SURFACE LEVEL	47.651		47.515	
CHAINAGE	0.000	L=4.749	4.749	

LINE K

FLOW (m³/s)		0.02		
VELOCITY (m/s)		1.3		
PIPE SIZE & CLASS		Ø375 RRJ RCP 4		
GRADE (%)		1.1%		
Datum R.L		25.00		
DEPTH TO INVERT	1.489	1.489	1.478 3.084	3.084
H.G.L. LEVEL	46.820	46.815	46.612	45.424
INVERT LEVEL		46.718	46.550	44.944
TOP OF PIT LEVEL	48.208		48.028	
EXISTING SURFACE LEVEL	46.500		46.222	
CHAINAGE	0.000	L=15.848	15.848	

LINE L

FLOW (m³/s)		0.01		
VELOCITY (m/s)		0		
PIPE SIZE & CLASS		Ø600 RRJ RCP 4		
GRADE (%)		1%		
Datum R.L		24.00		
DEPTH TO INVERT	1.583	1.583	1.733 1.753	1.753
H.G.L. LEVEL	45.190	45.186	45.185	45.185
INVERT LEVEL		44.724	44.679	44.659
TOP OF PIT LEVEL	46.307		46.412	
EXISTING SURFACE LEVEL	46.307		46.239	
CHAINAGE	0.000	L=4.443	4.443	

LINE M

FLOW (m³/s)		0		
VELOCITY (m/s)		0		
PIPE SIZE & CLASS		Ø375 RRJ RCP 3		
GRADE (%)		2.9%		
Datum R.L		30.00		
DEPTH TO INVERT	1.641	1.641	1.485 1.724	1.724
H.G.L. LEVEL	50.400	50.401	50.265	50.112
INVERT LEVEL		50.401	50.265	50.026
TOP OF PIT LEVEL	52.042		51.750	
EXISTING SURFACE LEVEL	51.935		52.020	
CHAINAGE	0.000	L=4.704	4.704	

LINE N

FLOW (m³/s)		0.34		
VELOCITY (m/s)		1.9		
PIPE SIZE & CLASS		Ø525 RRJ RCP 3		
GRADE (%)		1%		
Datum R.L		28.00		
DEPTH TO INVERT	2.934	2.934	2.202 2.224	2.224
H.G.L. LEVEL	48.676	48.676	48.636	48.577
INVERT LEVEL		48.331	48.220	48.198
TOP OF PIT LEVEL	51.266		50.422	
EXISTING SURFACE LEVEL	51.250		51.049	
CHAINAGE	0.000		11.139	

LINE Z

FLOW (m³/s)		13.46		
VELOCITY (m/s)		0.9		
PIPE SIZE & CLASS		Ø(3x)3600x1500 RCBC		
GRADE (%)		0.5%		
Datum R.L		24.00		
DEPTH TO INVERT	1.500	1.500	1.500 1.500	1.500
H.G.L. LEVEL	45.230	45.199	45.184	45.184
INVERT LEVEL		43.879	43.717	43.717
TOP OF PIT LEVEL	45.379		45.217	
EXISTING SURFACE LEVEL	46.476		46.204	
CHAINAGE	0.000	L=31.979	31.979	

LINE A-1A

FLOW (m³/s)		0.02		
VELOCITY (m/s)		0.5		
PIPE SIZE & CLASS		Ø375 RRJ RCP 4		
GRADE (%)		0.8%		
Datum R.L		28.00		
DEPTH TO INVERT	1.690		1.787	1.807
H.G.L. LEVEL	53.573	53.573	53.515	
INVERT LEVEL		53.410	53.285	53.265
TOP OF PIT LEVEL	55.100		55.072	
EXISTING SURFACE LEVEL				
CHAINAGE	0.000	L=15.76	15.76	

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER DRAINAGE
LONGITUDINAL SECTION
SHEET 3

Civil Engineers and Project Managers

at&l

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1402

Issue
B

100mm on Original

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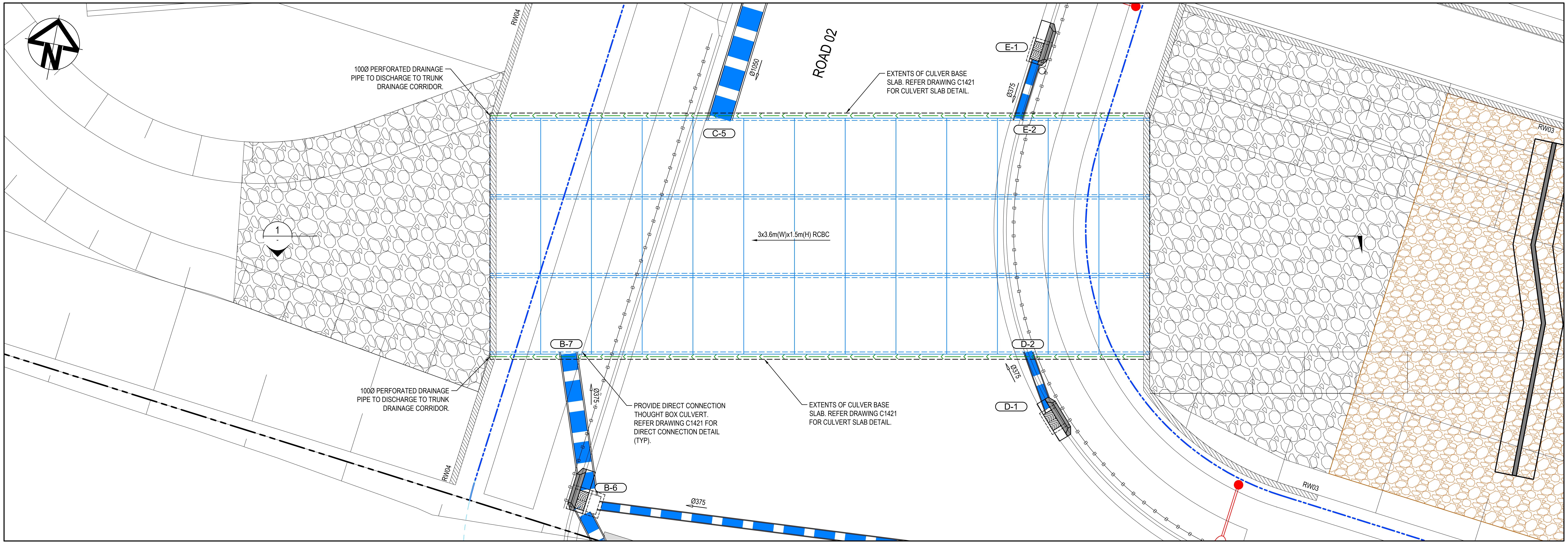
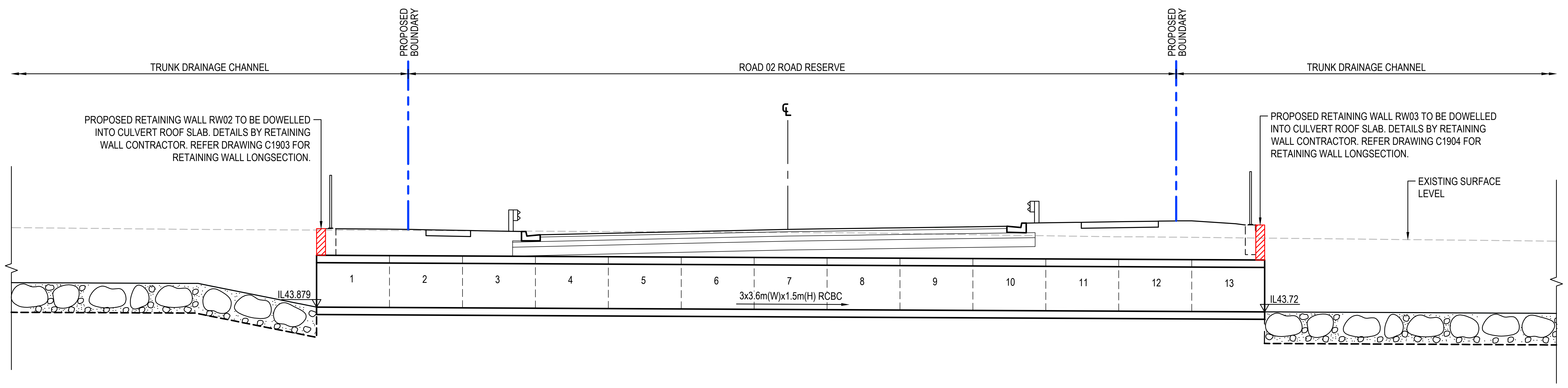

RW04
100Ø PERFORATED DRAINAGE PIPE TO DISCHARGE TO TRUNK DRAINAGE CORRIDOR.
Ø1050
ROAD 02
EXTENTS OF CULVER BASE SLAB. REFER DRAWING C1421 FOR CULVERT SLAB DETAIL.
E-1
Ø375
E-2
C-5
RW03
1
-
3x3.6m(W)x1.5m(H) RCBC
B-7
D-2
Ø375
100Ø PERFORATED DRAINAGE PIPE TO DISCHARGE TO TRUNK DRAINAGE CORRIDOR.
Ø375
PROVIDE DIRECT CONNECTION THOUGHT BOX CULVERT. REFER DRAWING C1421 FOR DIRECT CONNECTION DETAIL (TYP).
EXTENTS OF CULVER BASE SLAB. REFER DRAWING C1421 FOR CULVERT SLAB DETAIL.
D-1
Ø375
RW04
B-6
Ø375
RW03

PLAN
SCALE 1:100


PROPOSED BOUNDARY
PROPOSED BOUNDARY
TRUNK DRAINAGE CHANNEL
ROAD 02 ROAD RESERVE
TRUNK DRAINAGE CHANNEL
PROPOSED RETAINING WALL RW02 TO BE DOWELLED INTO CULVERT ROOF SLAB. DETAILS BY RETAINING WALL CONTRACTOR. REFER DRAWING C1903 FOR RETAINING WALL LONGSECTION.
℄
PROPOSED RETAINING WALL RW03 TO BE DOWELLED INTO CULVERT ROOF SLAB. DETAILS BY RETAINING WALL CONTRACTOR. REFER DRAWING C1904 FOR RETAINING WALL LONGSECTION.
EXISTING SURFACE LEVEL
1
2
3
4
5
6
7
8
9
10
11
12
13
IL43.879
3x3.6m(W)x1.5m(H) RCBC
IL43.72

SECTION 1
1 : 100

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 100 200 400 600 800 1000mm

1 : 10 @ A1 1 : 20 @ A3

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Client
ICON
OCEANIA

Scales	1:100	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER CULVERT
PLAN AND DETAIL

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1410
Issue
B

100mm on Original

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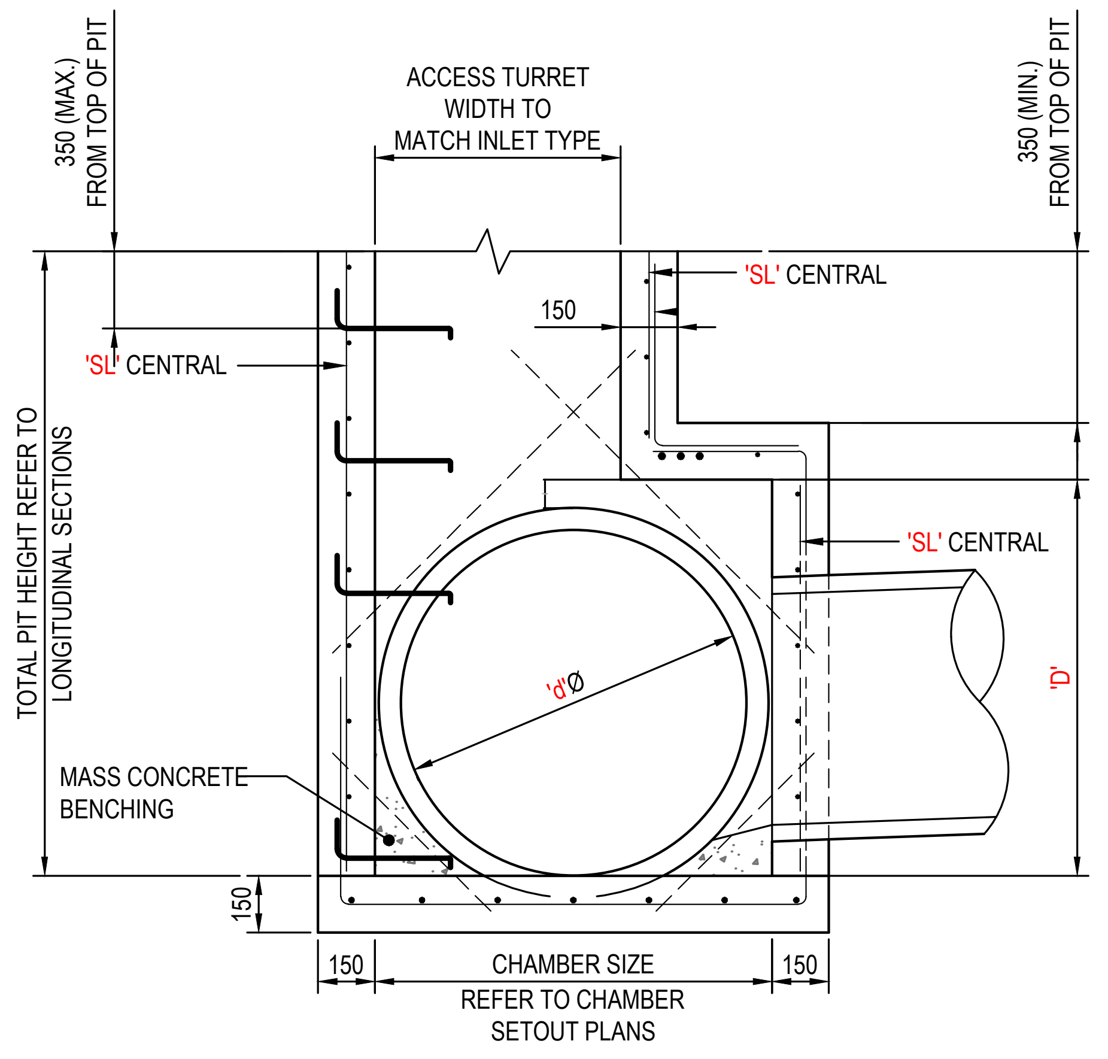

350 (MAX.) FROM TOP OF PIT
ACCESS TURRET WIDTH TO MATCH INLET TYPE
350 (MIN.) FROM TOP OF PIT
'SL' CENTRAL
150
'SL' CENTRAL
'SL' CENTRAL
TOTAL PIT HEIGHT REFER TO LONGITUDINAL SECTIONS
'dØ'
'D'
MASS CONCRETE BENCHING
150
150
CHAMBER SIZE REFER TO CHAMBER SETOUT PLANS
150

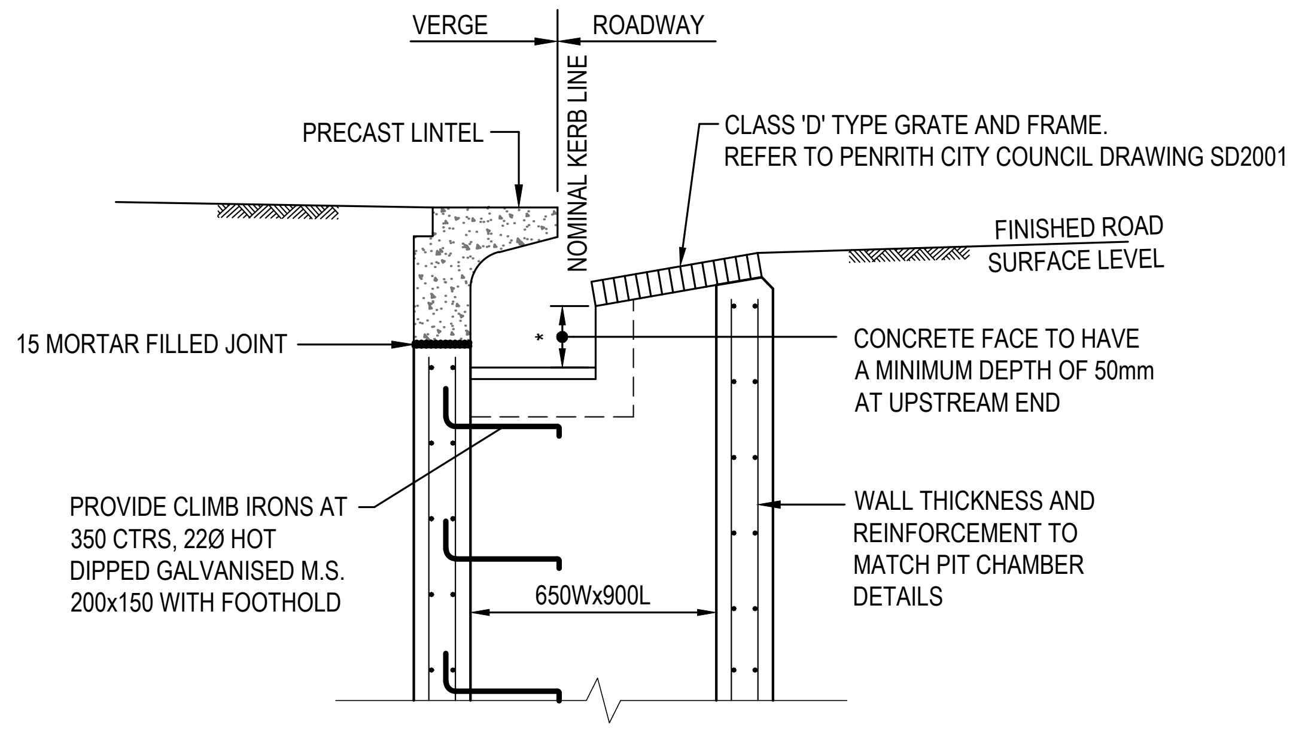
PIT CHAMBER 'TYPE A' DETAIL
FOR PIPES FROM 600Ø TO 1200Ø

(ENLARGED CHAMBER)

SCALE: 1:20

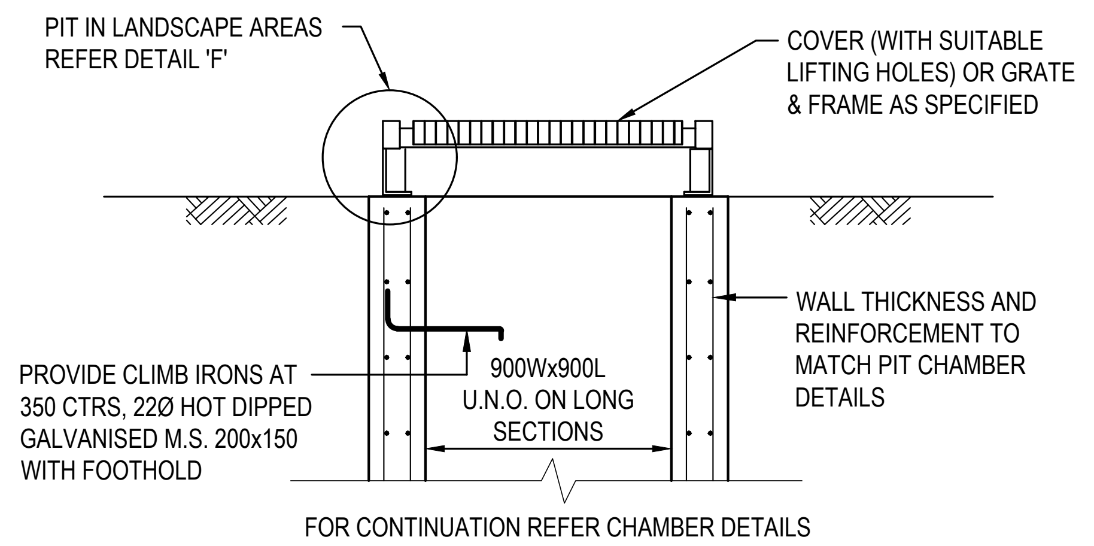
PIPE DIA. 'dØ'	WIDTH 'W'	DEPTH 'D'	FABRIC/COV 'SL'
600 to 675	900	1200-2400	
750	1000	1200-2400	REINFORCEMENT TO BE CONFIRMED BY CONTRACTOR AND STRUCTURAL ENGINEER
825	1150	1200-2400	
900	1200	1200-2400	
1050	1350	1300-2400	
1200	1500	1500-2800	

CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER


VERGE
ROADWAY
PRECAST LINTEL
NOMINAL KERB LINE
CLASS 'D' TYPE GRATE AND FRAME.
REFER TO PENRITH CITY COUNCIL DRAWING SD2001
FINISHED ROAD SURFACE LEVEL
15 MORTAR FILLED JOINT
CONCRETE FACE TO HAVE A MINIMUM DEPTH OF 50mm AT UPSTREAM END
PROVIDE CLIMB IRONS AT 350 CTRS, 22Ø HOT DIPPED GALVANISED M.S. 200x150 WITH FOOTHOLD
WALL THICKNESS AND REINFORCEMENT TO MATCH PIT CHAMBER DETAILS
650Wx900L
FOR CONTINUATION REFER CHAMBER DETAILS

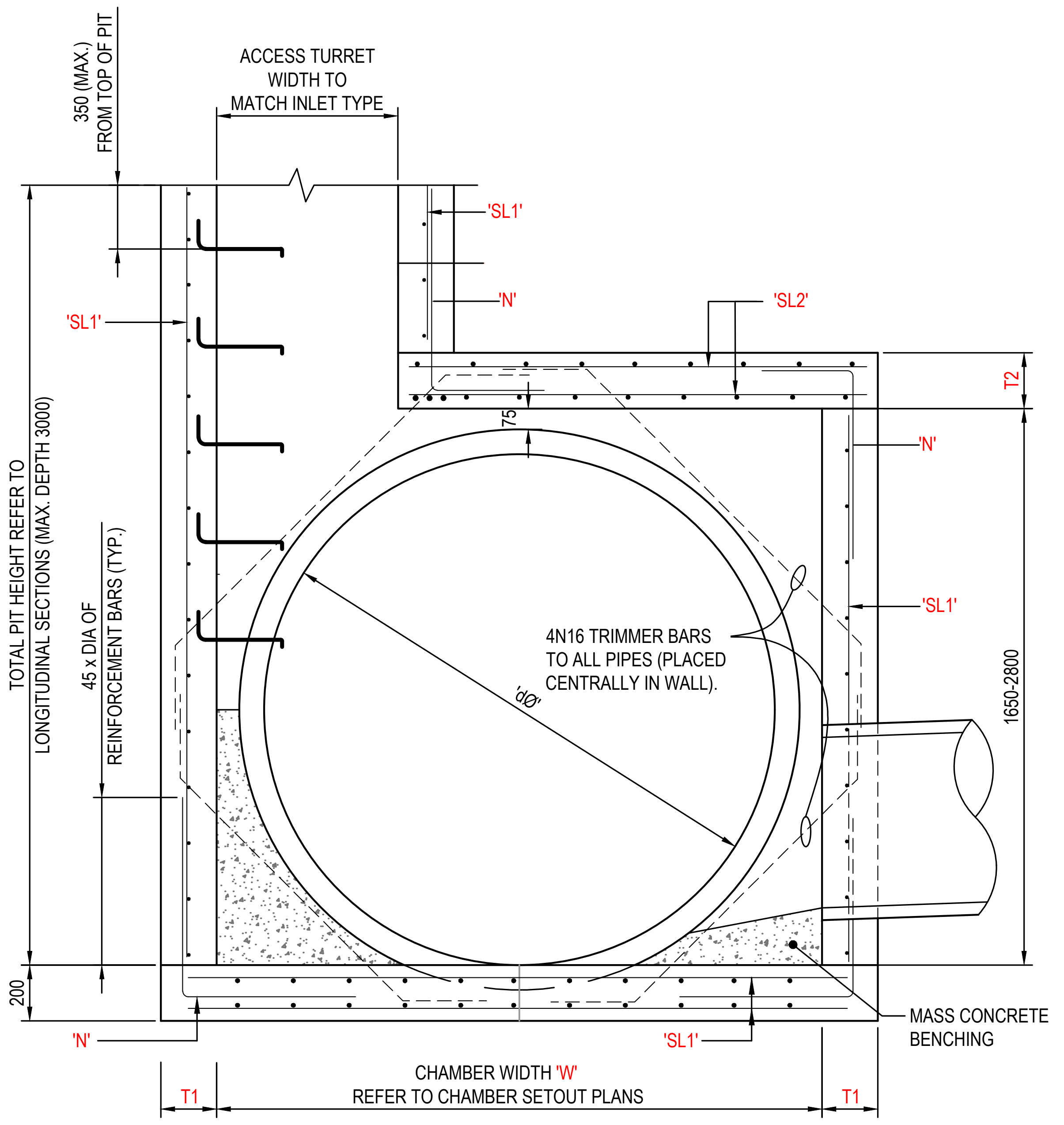
STANDARD GRATED KERB INLET PIT WITH LINTEL

SCALE: 1:20


PIT IN LANDSCAPE AREAS REFER DETAIL 'F'
COVER (WITH SUITABLE LIFTING HOLES) OR GRATE & FRAME AS SPECIFIED
WALL THICKNESS AND REINFORCEMENT TO MATCH PIT CHAMBER DETAILS
PROVIDE CLIMB IRONS AT 350 CTRS, 22Ø HOT DIPPED GALVANISED M.S. 200x150 WITH FOOTHOLD
900Wx900L U.N.O. ON LONG SECTIONS
FOR CONTINUATION REFER CHAMBER DETAILS

STANDARD SURCHARGE SURFACE INLET PIT

SCALE: 1:20


350 (MAX.) FROM TOP OF PIT
ACCESS TURRET WIDTH TO MATCH INLET TYPE
'SL1'
'N'
'SL1'
'SL2'
T2
'N'
75
'SL1'
TOTAL PIT HEIGHT REFER TO LONGITUDINAL SECTIONS (MAX DEPTH 3000)
45 x DIA OF REINFORCEMENT BARS (TYP.)
4N16 TRIMMER BARS TO ALL PIPES (PLACED CENTRALLY IN WALL).
'dØ'
1650-2800
200
'N'
'SL1'
MASS CONCRETE BENCHING
CHAMBER WIDTH 'W' REFER TO CHAMBER SETOUT PLANS
T1
T1

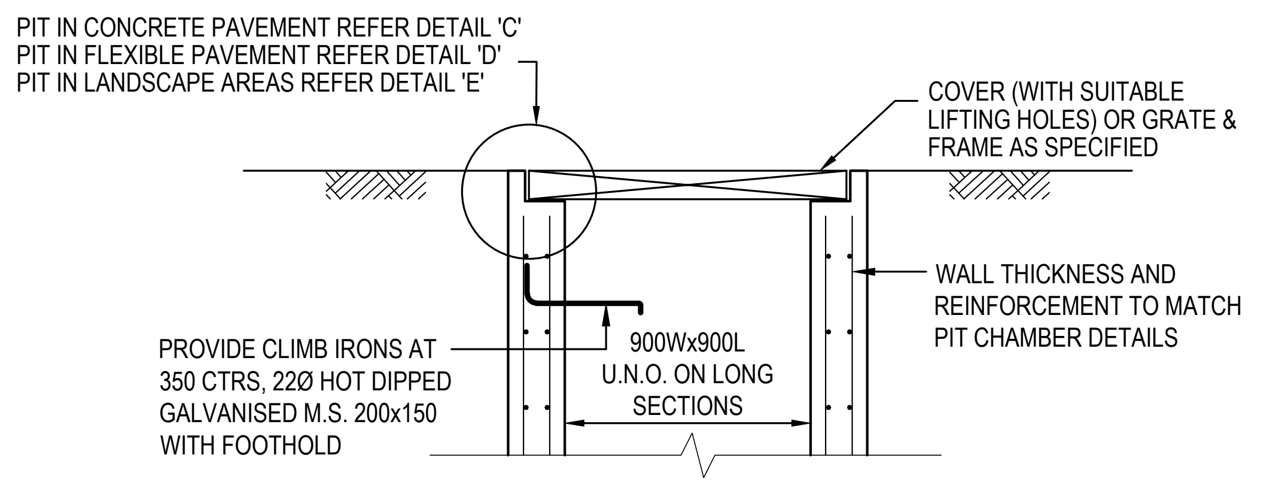
PIT CHAMBER 'TYPE B' DETAIL
FOR PIPES FROM 1350Ø TO 2250Ø

(ENLARGED CHAMBER)

SCALE: 1:20

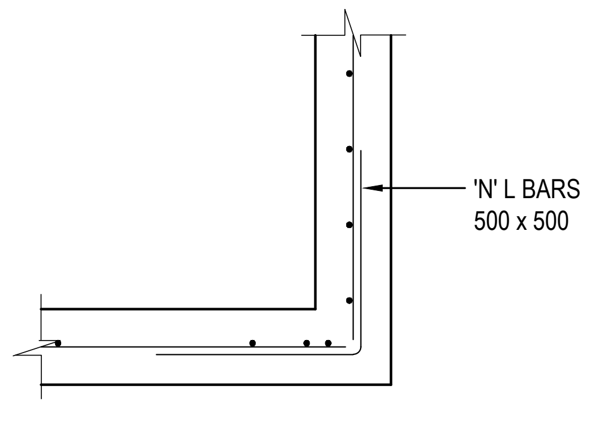
MAX. INNER WIDTH IN PLAN	WALL THICKNESS		FABRIC / R.C. BARS		LAP BAR
'W' (mm)	'T1' (mm)	'T2' (mm)	'SL1'	'SL2'	'N'
1400					
1800	REINFORCEMENT AND WALL THICKNESSES TO BE CONFIRMED BY CONTRACTOR AND STRUCTURAL ENGINEER				
2250					
2450					

CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER


PIT IN CONCRETE PAVEMENT REFER DETAIL 'C'
PIT IN FLEXIBLE PAVEMENT REFER DETAIL 'D'
PIT IN LANDSCAPE AREAS REFER DETAIL 'E'
COVER (WITH SUITABLE LIFTING HOLES) OR GRATE & FRAME AS SPECIFIED
WALL THICKNESS AND REINFORCEMENT TO MATCH PIT CHAMBER DETAILS
PROVIDE CLIMB IRONS AT 350 CTRS, 22Ø HOT DIPPED GALVANISED M.S. 200x150 WITH FOOTHOLD
900Wx900L U.N.O. ON LONG SECTIONS
FOR CONTINUATION REFER CHAMBER DETAILS

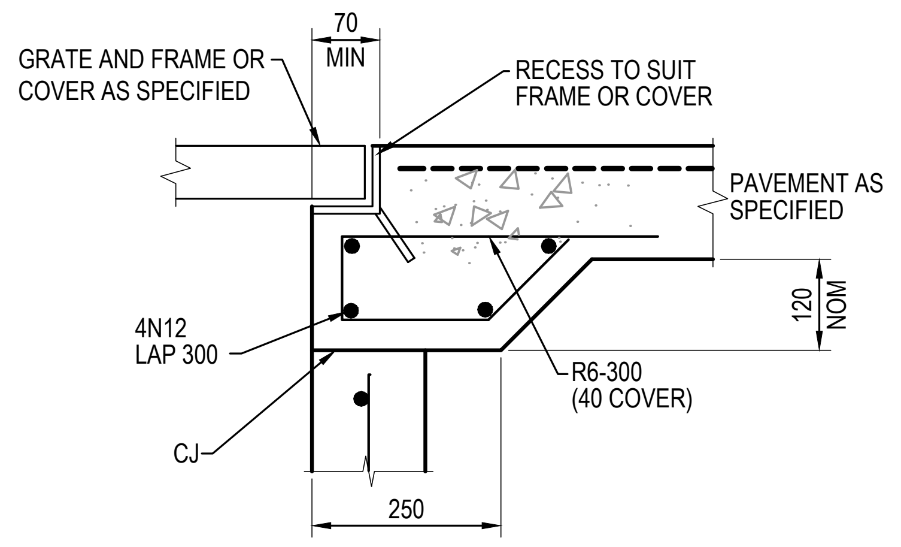
STANDARD SURFACE INLET OR SEALED JUNCTION PIT

SCALE: 1:20


'N' L BARS 500 x 500

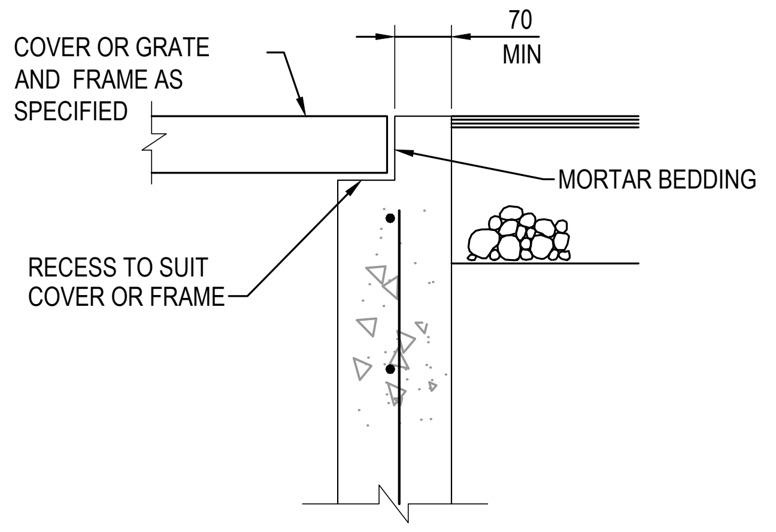
TYPICAL CORNER DETAIL

SCALE 1:20


70 MIN
GRATE AND FRAME OR COVER AS SPECIFIED
RECESS TO SUIT FRAME OR COVER
PAVEMENT AS SPECIFIED
120 NOM
4N12 LAP 300
R6-300 (40 COVER)
CJ
250

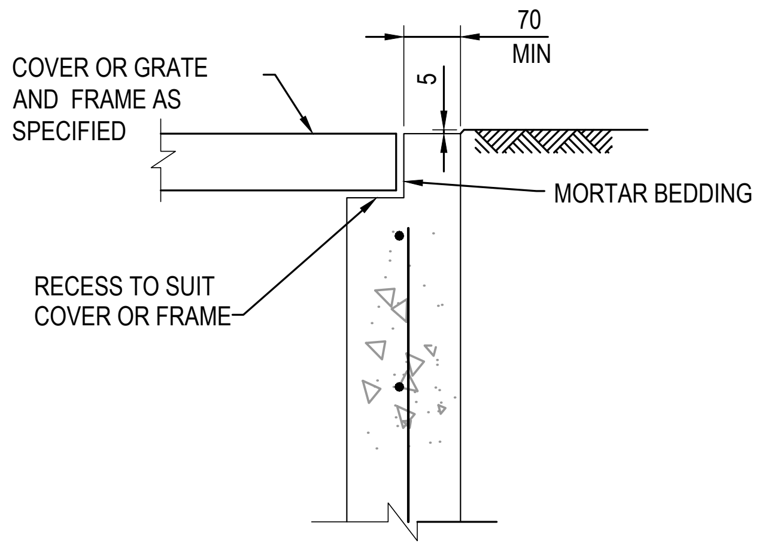
DETAIL "C"

SCALE 1:10


COVER OR GRATE AND FRAME AS SPECIFIED
70 MIN
MORTAR BEDDING
RECESS TO SUIT COVER OR FRAME

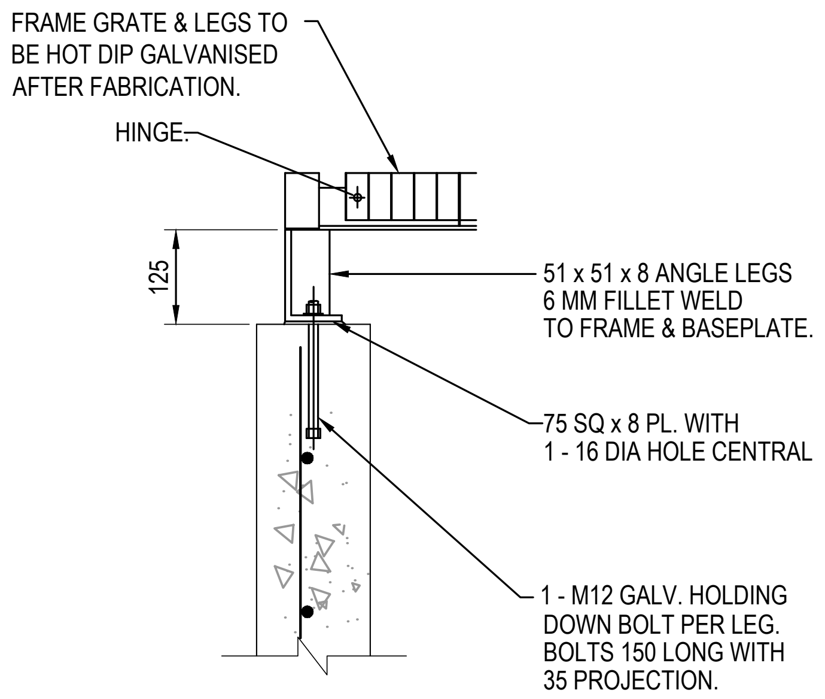
DETAIL "D"

SCALE 1:10


COVER OR GRATE AND FRAME AS SPECIFIED
70 MIN
5
MORTAR BEDDING
RECESS TO SUIT COVER OR FRAME

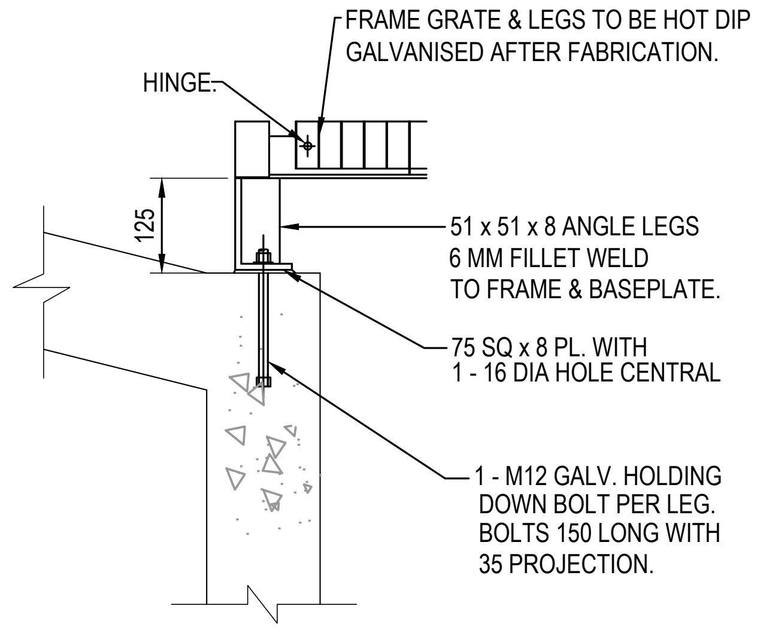
DETAIL "E"

SCALE 1:10


FRAME GRATE & LEGS TO BE HOT DIP GALVANISED AFTER FABRICATION.
HINGE.
125
51 x 51 x 8 ANGLE LEGS 6 MM FILLET WELD TO FRAME & BASEPLATE.
75 SQ x 8 PL. WITH 1 - 16 DIA HOLE CENTRAL
1 - M12 GALV. HOLDING DOWN BOLT PER LEG. BOLTS 150 LONG WITH 35 PROJECTION.

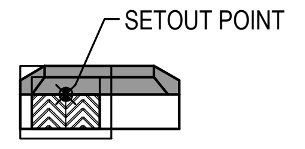
DETAIL "F"

SCALE 1:10

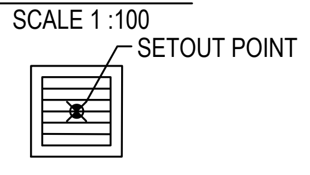

FRAME GRATE & LEGS TO BE HOT DIP GALVANISED AFTER FABRICATION.
HINGE.
125
51 x 51 x 8 ANGLE LEGS 6 MM FILLET WELD TO FRAME & BASEPLATE.
75 SQ x 8 PL. WITH 1 - 16 DIA HOLE CENTRAL
1 - M12 GALV. HOLDING DOWN BOLT PER LEG. BOLTS 150 LONG WITH 35 PROJECTION.

DETAIL "G"

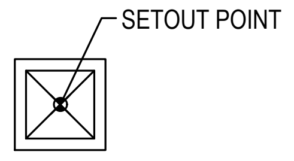
SCALE 1:10


SETOUT POINT

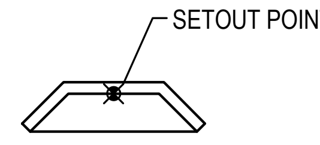
KERB INLET PIT
SCALE 1 :100


SETOUT POINT

SURFACE INLET PIT
SCALE 1 :100


SETOUT POINT

JUNCTION PIT
SCALE 1 :100


SETOUT POINT

HEADWALL
SCALE 1 :100

STORMWATER PIT SETOUT POINTS

REFER PIT SETOUT PLANS
FOR ENLARGED CHAMBERS

NOTE

1. STANDARD GULLY PITS REFER TO PENRITH CITY COUNCIL STANDARD DRAWING FOR DETAILS
2. FOR INLET SIZE REFER TO STORMWATER LONGITUDINAL SECTIONS
3. FOR PIT CHAMBER SIZE AND SETOUT REFER TO STORMWATER DRAINAGE SETOUT PLANS
4. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
5. COMPRESSIVE STRENGTH (F'c) FOR CAST IN SITU CONCRETE SHALL BE CONFIRMED BY CONTRACTOR AND STRUCTURAL ENGINEER
6. TOP OF BENCHING SHALL BE $\frac{1}{2}$ OF OUTLET PIPE DIAMETER.
7. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
8. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
9. PIT GRATE TO BE 'WELDLOK' GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
10. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
11. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
12. CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 100 200 400 600 800 1000mm
1 : 10 @ A1 1 : 20 @ A3

0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER DRAINAGE
DETAILS
SHEET 1

Civil Engineers and Project Managers
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Status
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Project - Drawing No.
21-860-C1420
Issue
B

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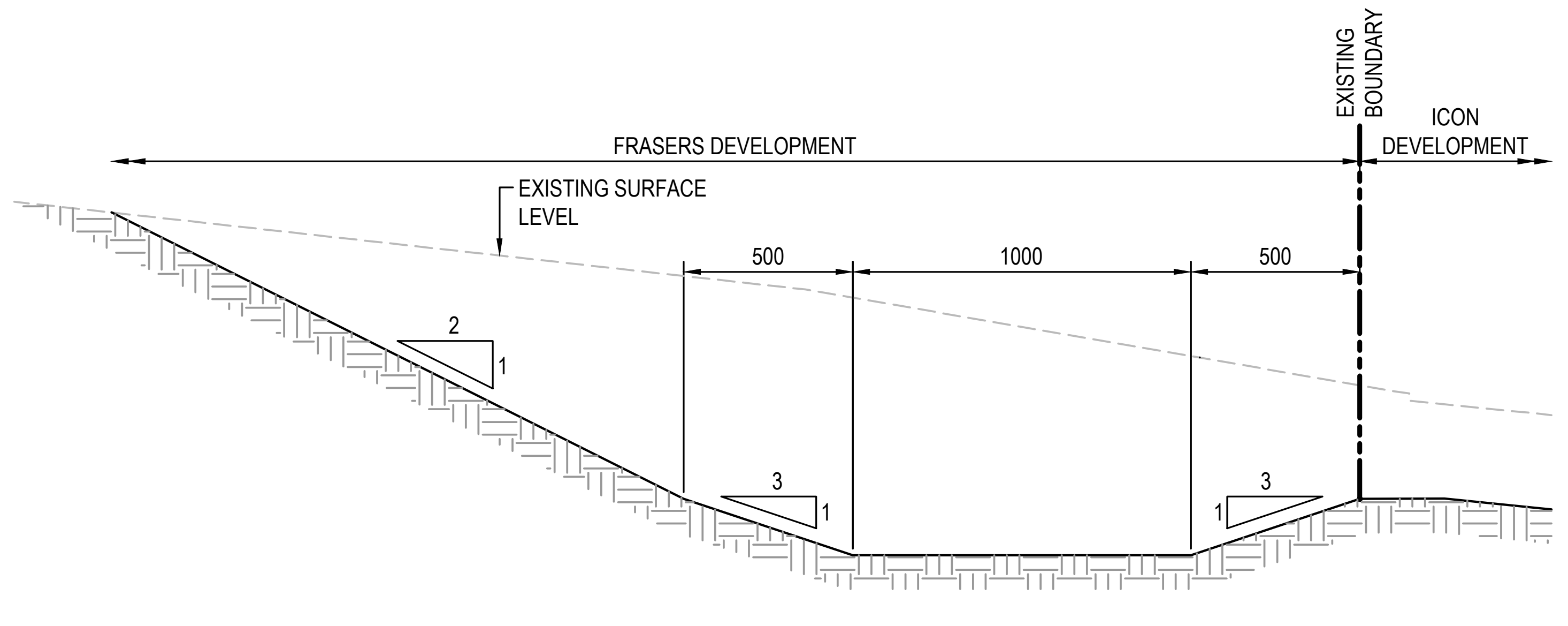
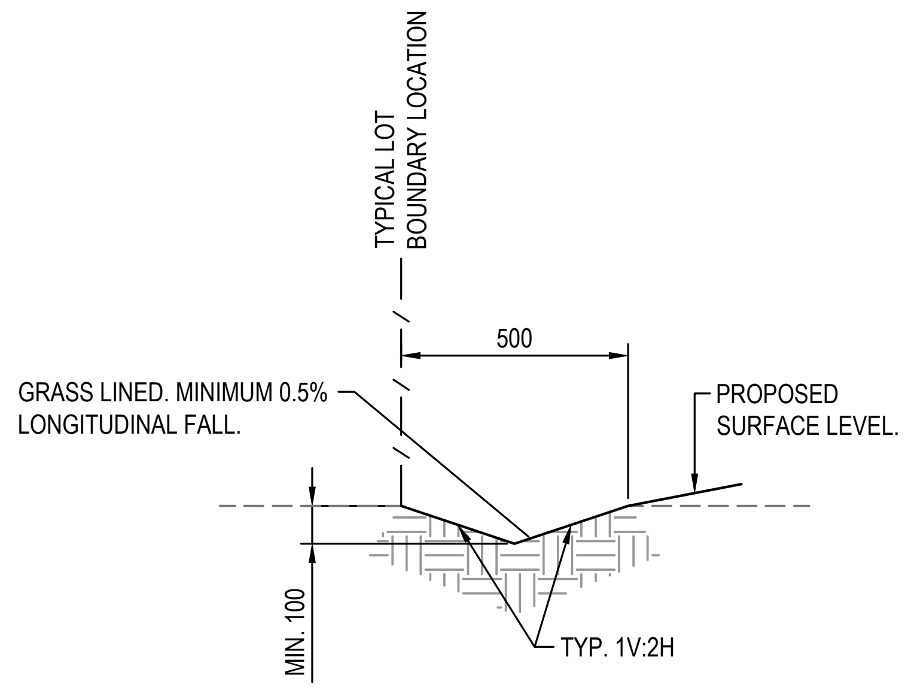

EXISTING BOUNDARY
FRASERS DEVELOPMENT
ICON DEVELOPMENT
EXISTING SURFACE LEVEL
500
1000
500
2
1
3
1
3
1

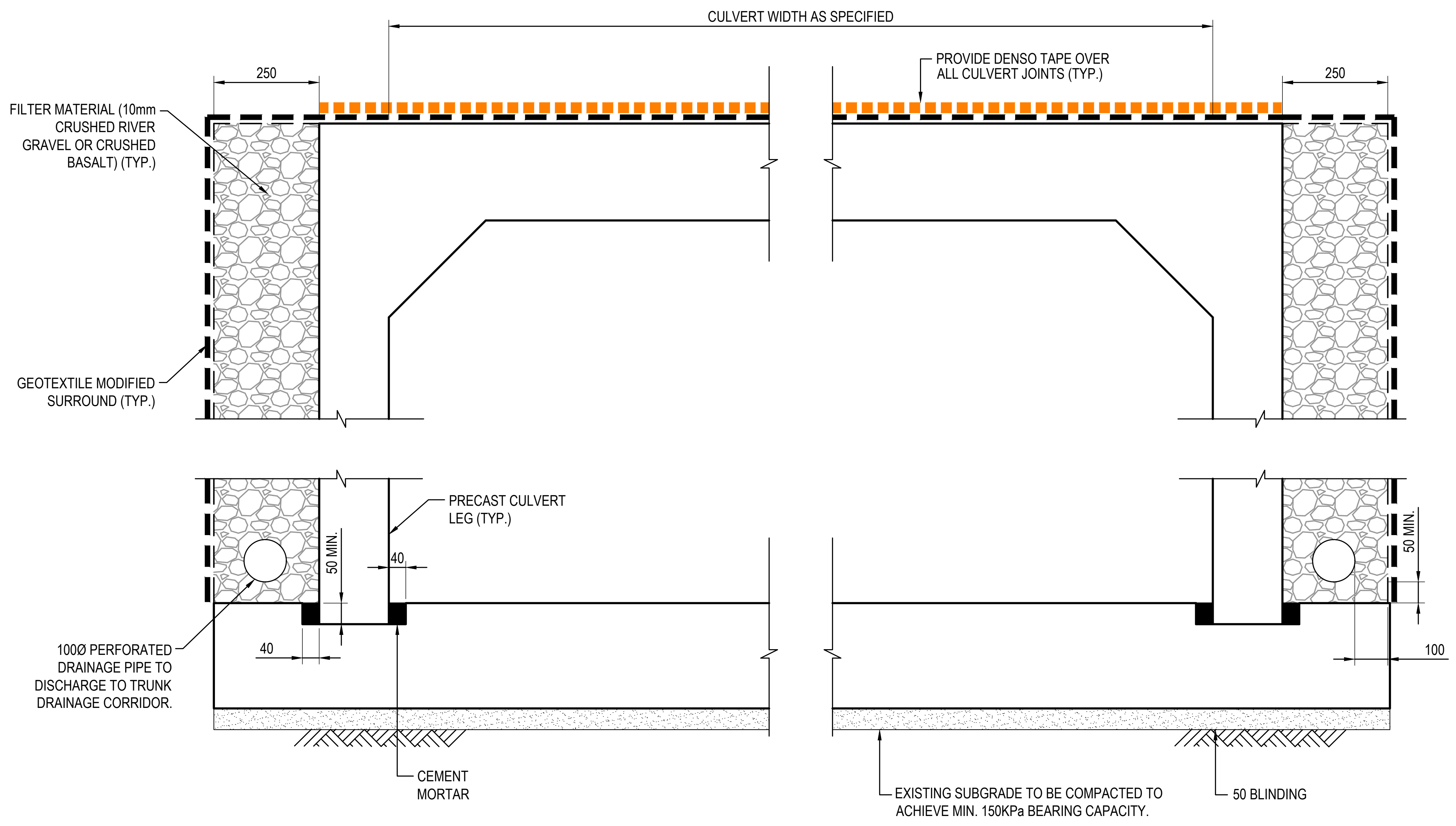
TYPICAL DIVERSION SWALE DETAIL

SCALE 1:20


TYPICAL LOT BOUNDARY LOCATION
500
GRASS LINED. MINIMUM 0.5% LONGITUDINAL FALL.
PROPOSED SURFACE LEVEL.
MIN. 100
TYP. 1V:2H

TYPICAL CATCH DRAIN DETAIL

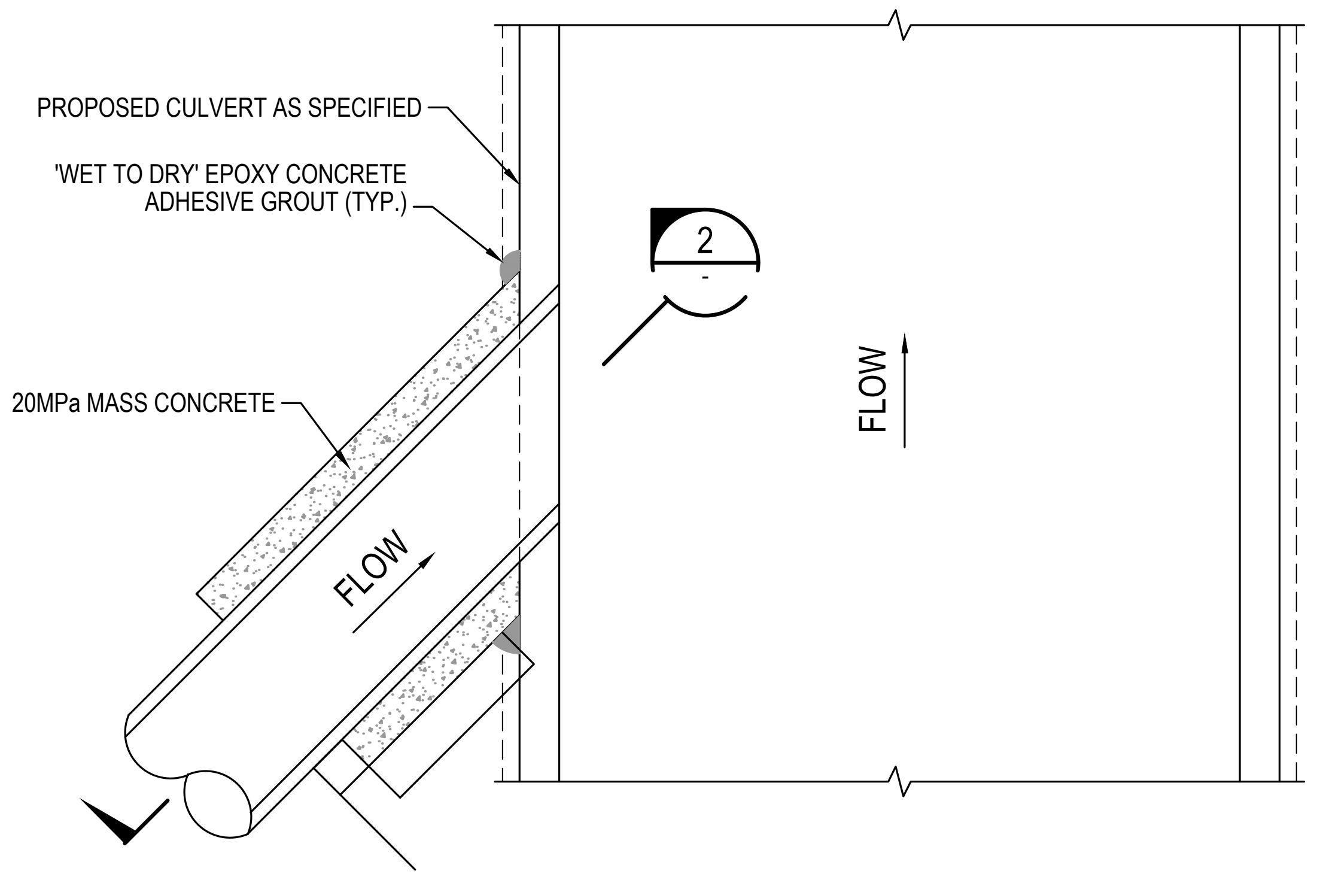
SCALE 1:20


CULVERT WIDTH AS SPECIFIED
250
250
PROVIDE DENSO TAPE OVER ALL CULVERT JOINTS (TYP.)
FILTER MATERIAL (10mm CRUSHED RIVER GRAVEL OR CRUSHED BASALT) (TYP.)
GEOTEXTILE MODIFIED SURROUND (TYP.)
PRECAST CULVERT LEG (TYP.)
50 MIN.
40
50 MIN.
100Ø PERFORATED DRAINAGE PIPE TO DISCHARGE TO TRUNK DRAINAGE CORRIDOR.
40
100
CEMENT MORTAR
EXISTING SUBGRADE TO BE COMPACTED TO ACHIEVE MIN. 150KPa BEARING CAPACITY.
50 BLINDING

NOTE:
- REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR CULVERT STRUCTURAL DETAILS.

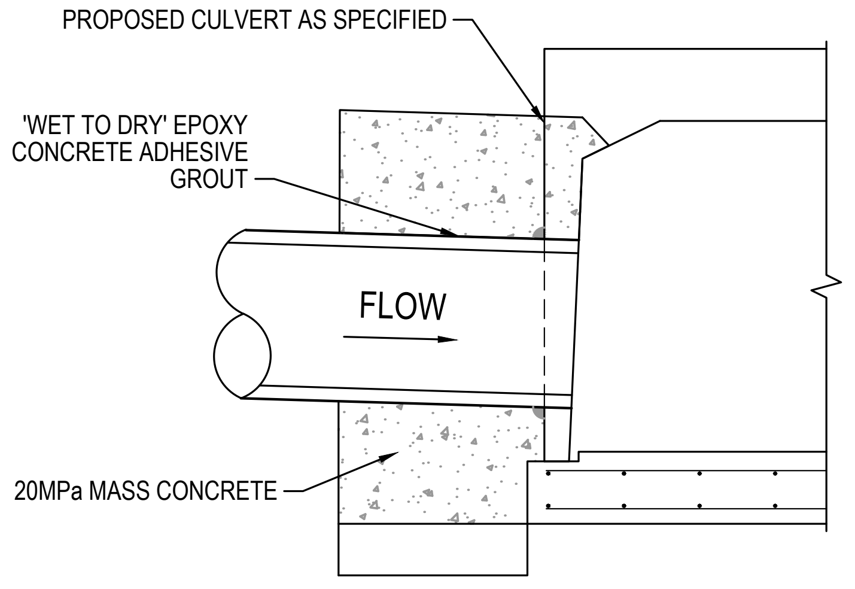
CULVERT BASE SLAB DETAIL

SCALE 1 : 10


PROPOSED CULVERT AS SPECIFIED
'WET TO DRY' EPOXY CONCRETE ADHESIVE GROUT (TYP.)
20MPa MASS CONCRETE
2
-
FLOW
FLOW

TYPICAL DIRECT PIPE CONNECTION DETAIL

SCALE 1:20


PROPOSED CULVERT AS SPECIFIED
'WET TO DRY' EPOXY CONCRETE ADHESIVE GROUT
FLOW
20MPa MASS CONCRETE

SECTION 2

1 : 20

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 100 200 400 600 800 1000mm

1 : 10 @ A1 1 : 20 @ A3

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

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Client

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OCEANIA

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		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

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Project
SSD-23480429
ICON OCEANIA
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KEMPS CREEK

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DETAILS
SHEET 2

Civil Engineers and Project Managers

at&l

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Status
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A1

Project - Drawing No.
21-860-C1421

Issue
B

100mm on Original

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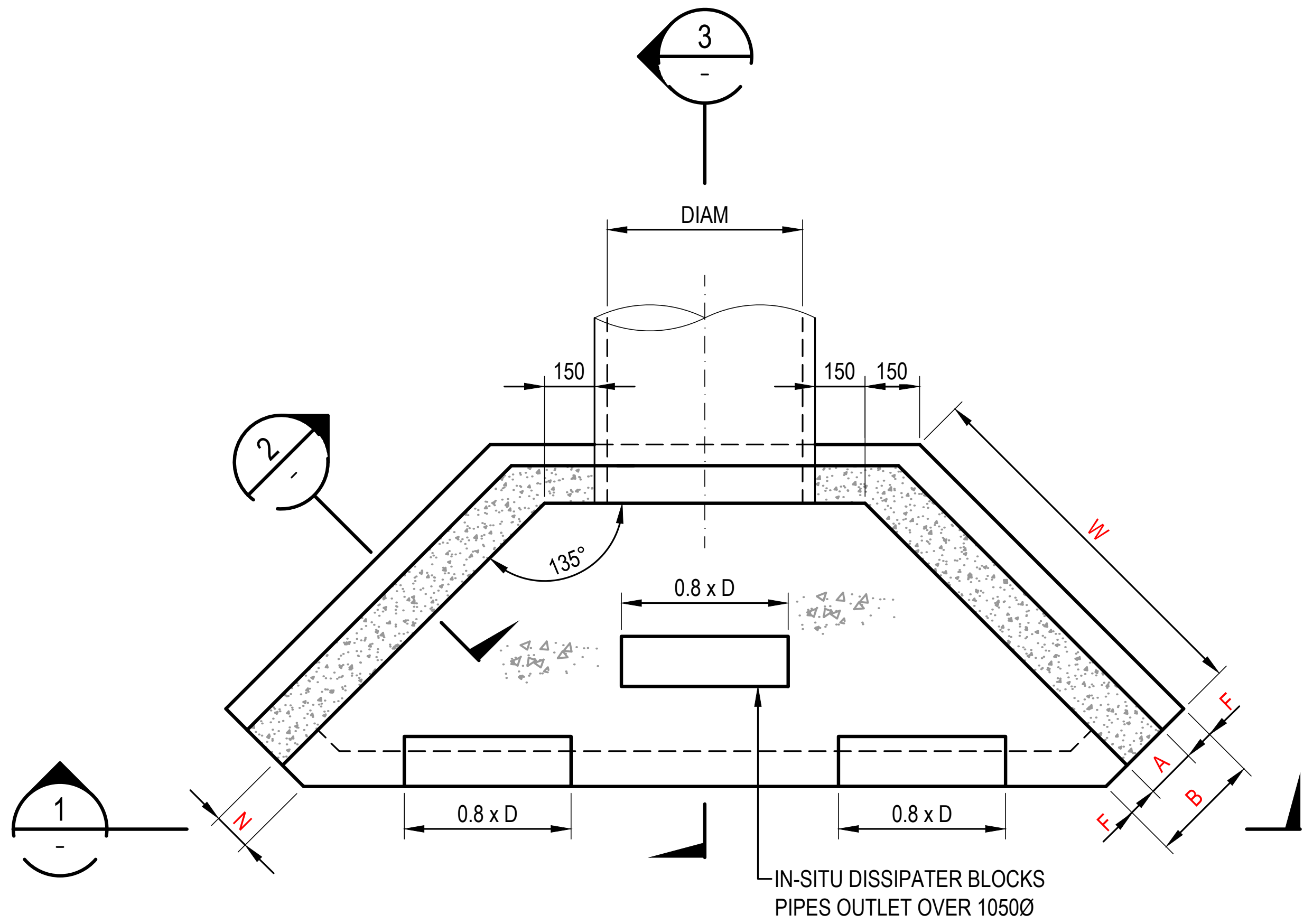
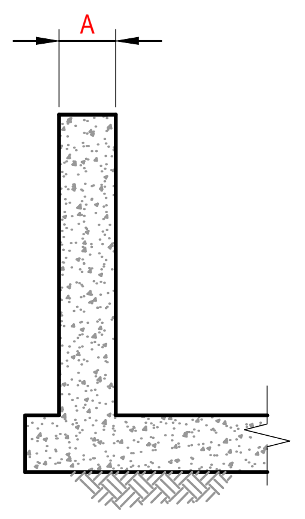

3
-
DIAM
150
150
150
2
-
135°
0.8 x D
W
F
A
B
F
1
-
N
0.8 x D
0.8 x D
IN-SITU DISSIPATER BLOCKS
PIPES OUTLET OVER 1050Ø

HEADWALL
PLAN

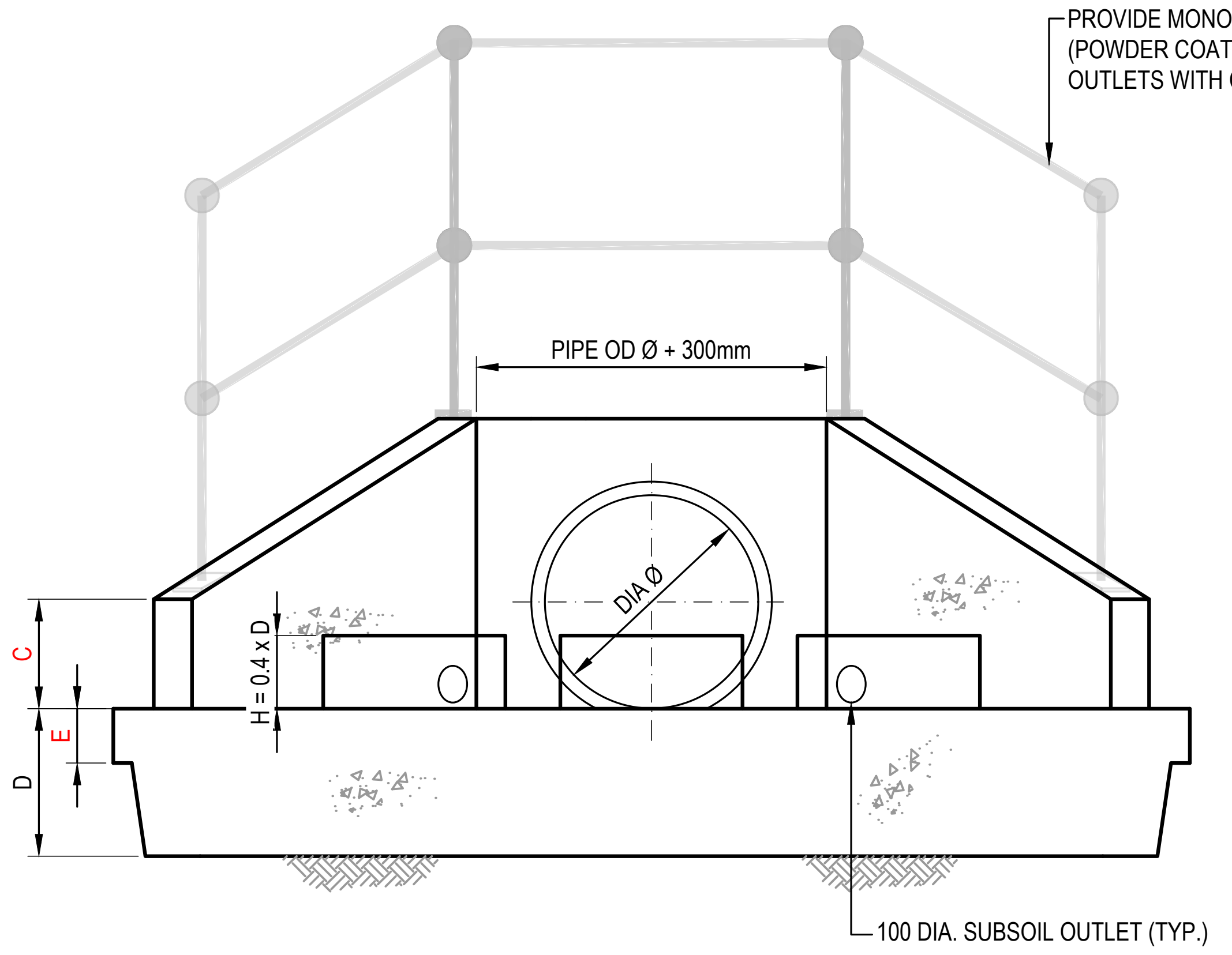


SECTION 2
SCALE 1 : 20

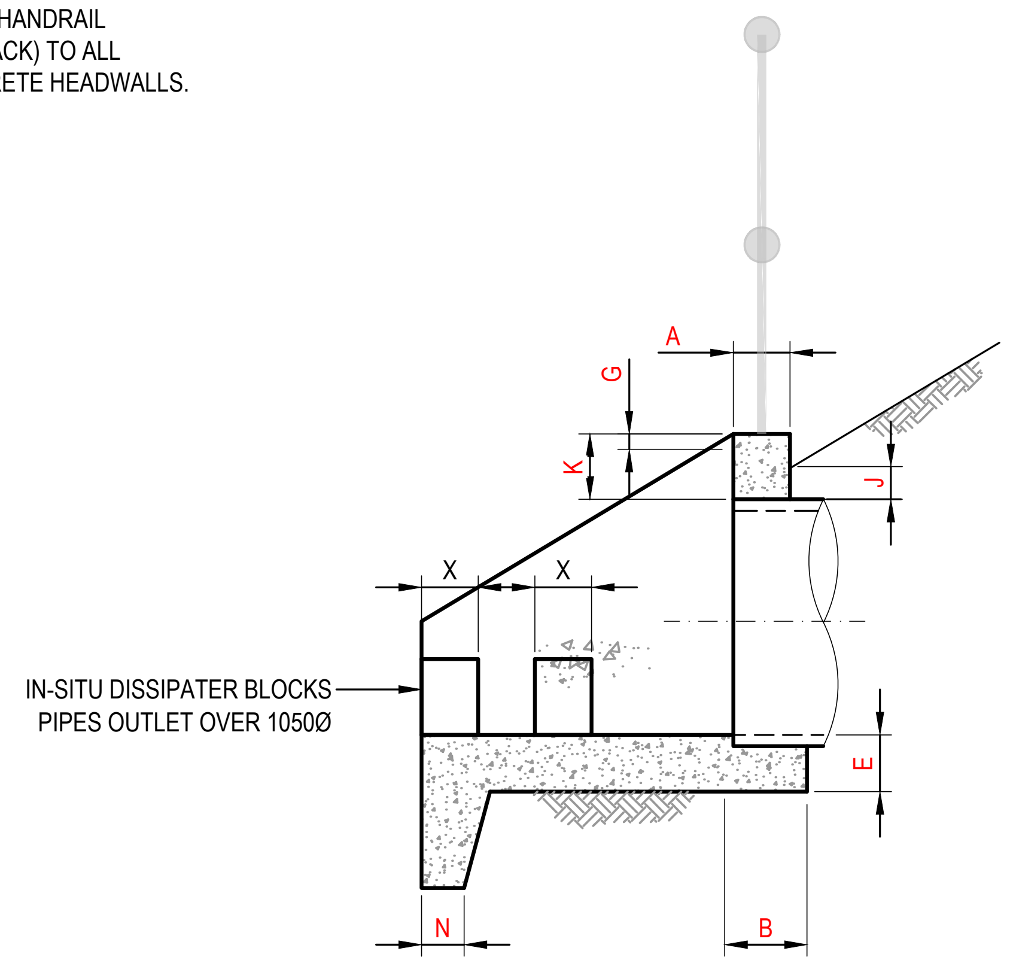
HEADWALL TYPE - SINGLE PIPE

PIPE DIAMETER	300	375	450	525	600	675	750	825	900	1050	1200	1350	1500	1650	1800
A	150	150	150	175	175	175	200	200	225	225	225	250	250	250	250
B	300	300	300	375	375	375	450	450	525	525	525	550	550	550	550
C	300	300	300	300	350	350	350	350	350	350	350	350	350	350	350
D	375	375	375	375	530	530	530	530	530	530	530	530	530	530	530
E	150	150	150	150	175	175	200	200	225	225	225	225	225	225	225
F	75	75	75	100	100	100	125	125	150	150	150	150	150	150	150
G	40	40	40	40	50	50	50	50	50	50	50	50	50	50	50
J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
K	200	200	200	200	300	300	300	300	300	300	300	300	300	300	300
N	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
W	700	700	850	1000	1100	1300	1450	1600	1750	1950	2200	2500	2700	2800	2900
M	1100	1200	1300	1400	1450	1500	1600	1650	1750	1900	2100	2250	2400	2500	2600
X	150	150	150	150	150	150	150	150	150	200	200	200	250	250	250

NOTES
- COMPRESSIVE STRENGTH (Fc) FOR CAST-IN-SITU CONCRETE TO BE A MINIMUM OF 32MPa AT 28 DAYS.
- 25mm CHAMFER ON ALL EXPOSED SURFACES.
- CONTRACTOR TO DESIGN AND PROVIDE STRUCTURAL CERTIFICATE FOR ALL PITS / END STRUCTURES.


PROVIDE MONOWILLS HANDRAIL
(POWDER COATED BLACK) TO ALL
OUTLETS WITH CONCRETE HEADWALLS.
PIPE OD Ø + 300mm
DIA Ø
C
E
D
H = 0.4 x D
100 DIA. SUBSOIL OUTLET (TYP.)

SECTION 1
SCALE 1 : 20


A
G
K
J
X
X
IN-SITU DISSIPATER BLOCKS
PIPES OUTLET OVER 1050Ø
E
N
B

SECTION 3
SCALE 1 : 20

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

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Client
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OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
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ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

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DETAILS
SHEET 3

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Status
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NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1422
Issue
B

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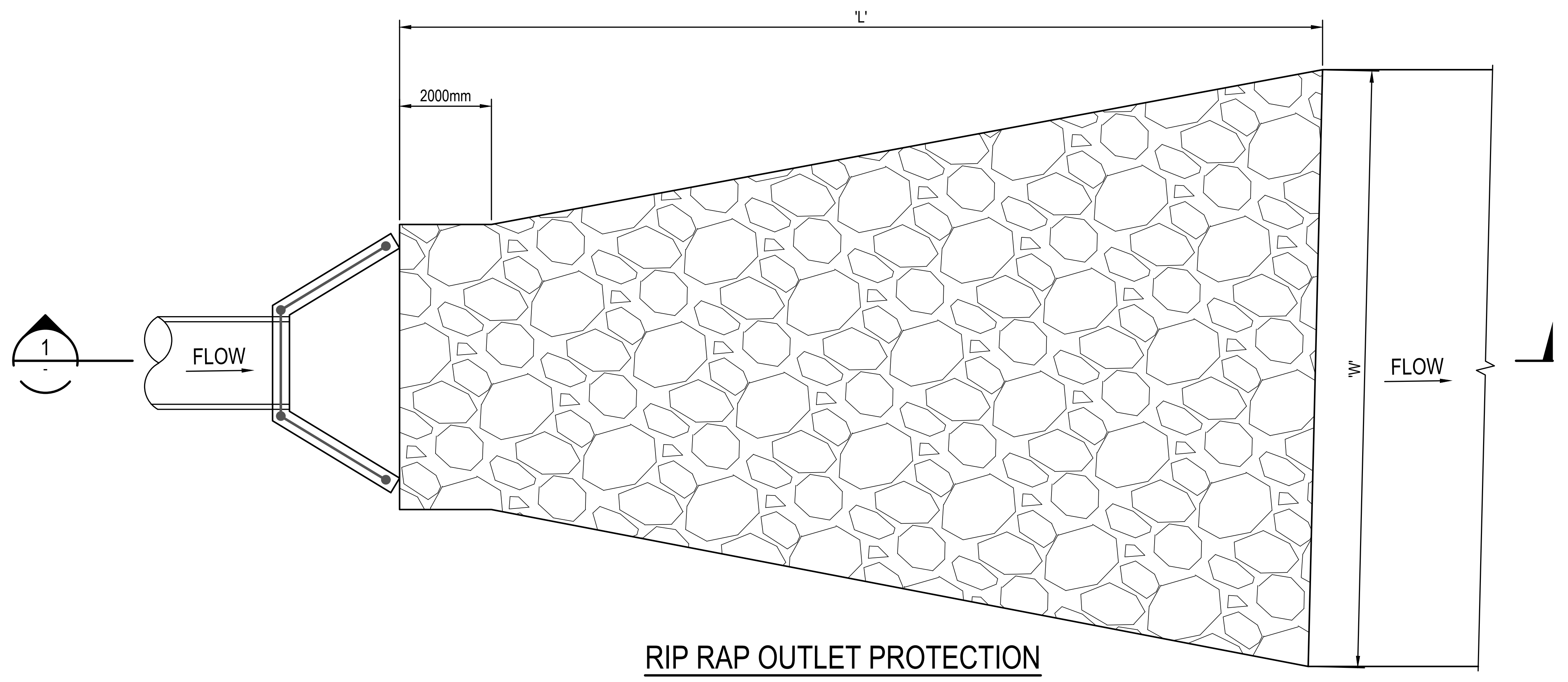
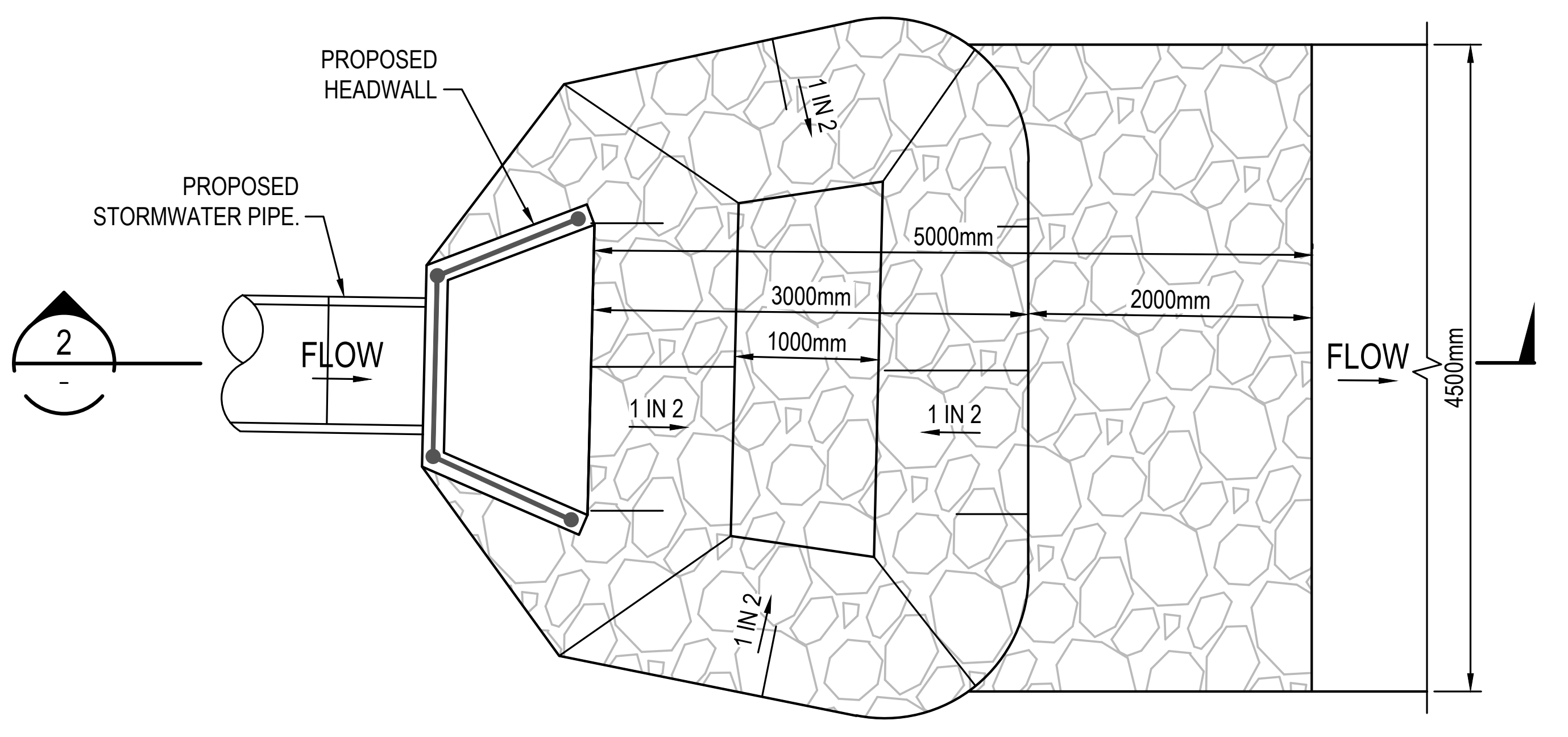


'L'
2000mm
1
-
FLOW
'W'
FLOW

RIP RAP OUTLET PROTECTION TYPE 1 DETAIL

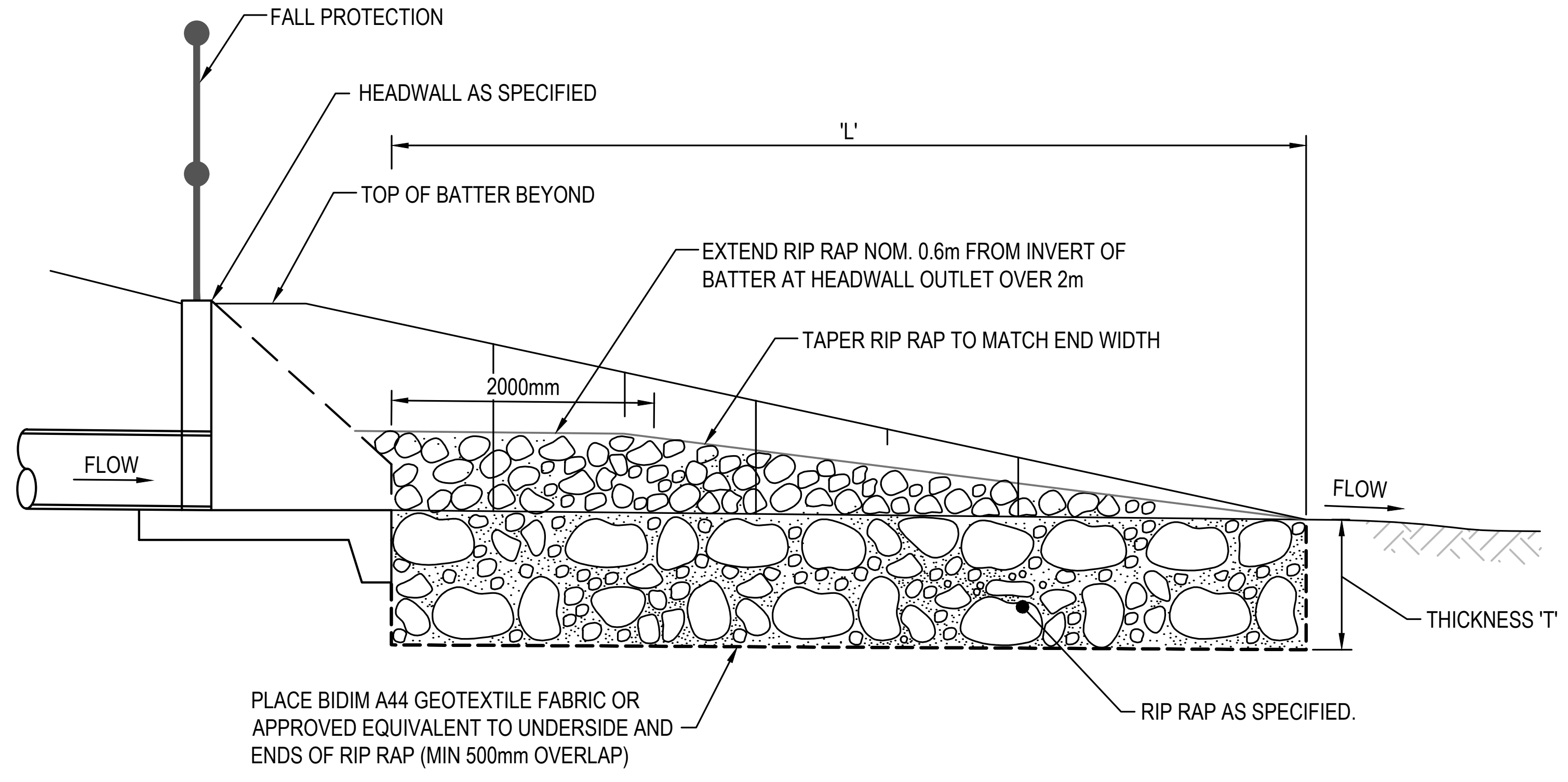
1 : 100



PROPOSED HEADWALL
PROPOSED STORMWATER PIPE.
2
-
FLOW
1 IN 2
5000mm
3000mm
1000mm
2000mm
1 IN 2
1 IN 2
1 IN 2
FLOW
4500mm

RIP RAP ENERGY DISSIPATER DETAIL

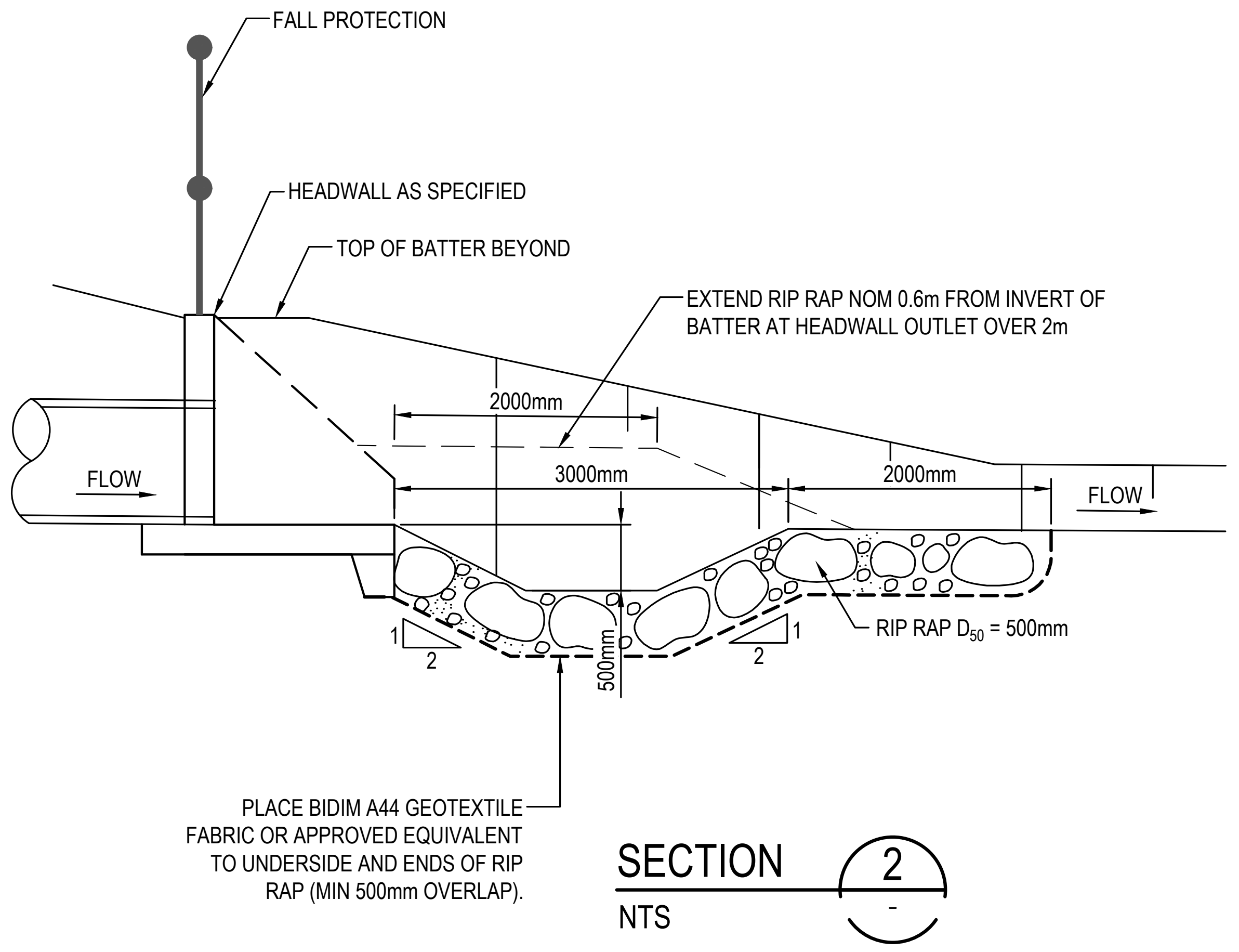
1 : 50



FALL PROTECTION
HEADWALL AS SPECIFIED
'L'
TOP OF BATTER BEYOND
EXTEND RIP RAP NOM. 0.6m FROM INVERT OF BATTER AT HEADWALL OUTLET OVER 2m
TAPER RIP RAP TO MATCH END WIDTH
2000mm
FLOW
FLOW
THICKNESS 'T'
PLACE BIDIM A44 GEOTEXTILE FABRIC OR APPROVED EQUIVALENT TO UNDERSIDE AND ENDS OF RIP RAP (MIN 500mm OVERLAP)
RIP RAP AS SPECIFIED.

SECTION 1

NTS



FALL PROTECTION
HEADWALL AS SPECIFIED
TOP OF BATTER BEYOND
EXTEND RIP RAP NOM 0.6m FROM INVERT OF BATTER AT HEADWALL OUTLET OVER 2m
2000mm
3000mm
2000mm
FLOW
FLOW
1
2
500mm
2
1
RIP RAP D_{50} = 500mm
PLACE BIDIM A44 GEOTEXTILE FABRIC OR APPROVED EQUIVALENT TO UNDERSIDE AND ENDS OF RIP RAP (MIN 500mm OVERLAP).

SECTION 2

NTS

SCOUR PROTECTION SCHEDULE

HEADWALL No.	PIPE Ø (mm)	LENGTH OF PROTECTION (mm)	WIDTH OF PROTECTION (mm)	NOMINAL ROCK SIZE (mm)	THICKNESS OF PROTECTION (mm)
	'D'	'L'	'W'	'd_{50}'	'T'
A-6	750	7.0	5.0	300	550
Z-1	3x3.6(W)x1.5(H) RCBC	33.0	15.0	400	550
Z-2	3x3.6(W)x1.5(H) RCBC	13.0	15.0	400	550

ROCK GRADATION TABLE

	d_{50}				ROCK DISTRIBUTION BY %
	250mm	300mm	400mm	600mm	
ROCK SIZE (mm)	500	600	750	900	15-25%
	380	450	525	750	20%
	250	300	400	600	50%
	100	120	150	200	15-25%

NOTE:

1. MINIMUM NOMINAL ROCK SIZE 'd50' IS 250mm.
2. THICKNESS 'T' IS 1.8 x NOMINAL ROCK SIZE
3. ROCK IS NOT TO BE SITE WON SHALE OR OTHER WEATHERABLE ROCK

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

100mm on Original

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Issue
B

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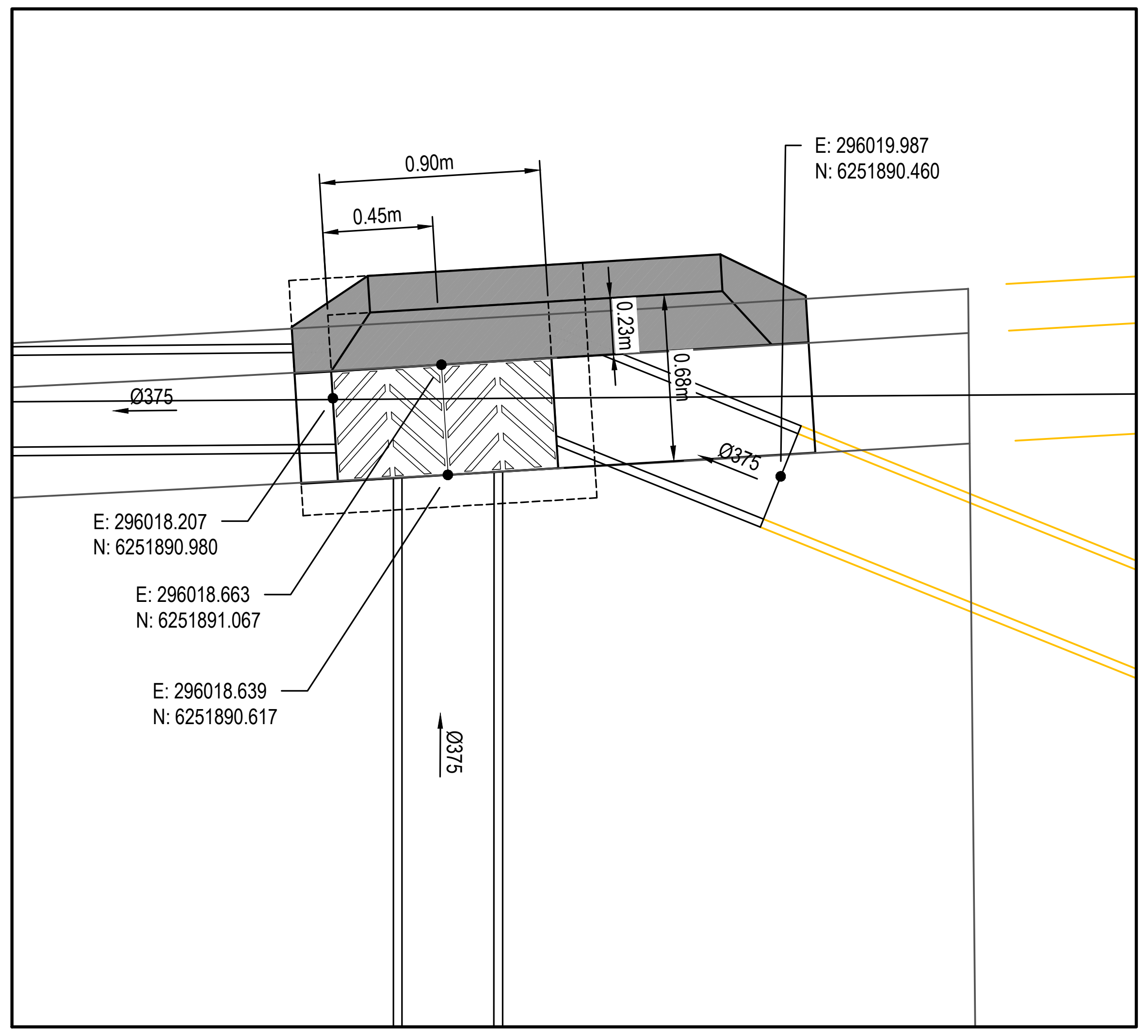
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0.45m
0.23m
0.68m
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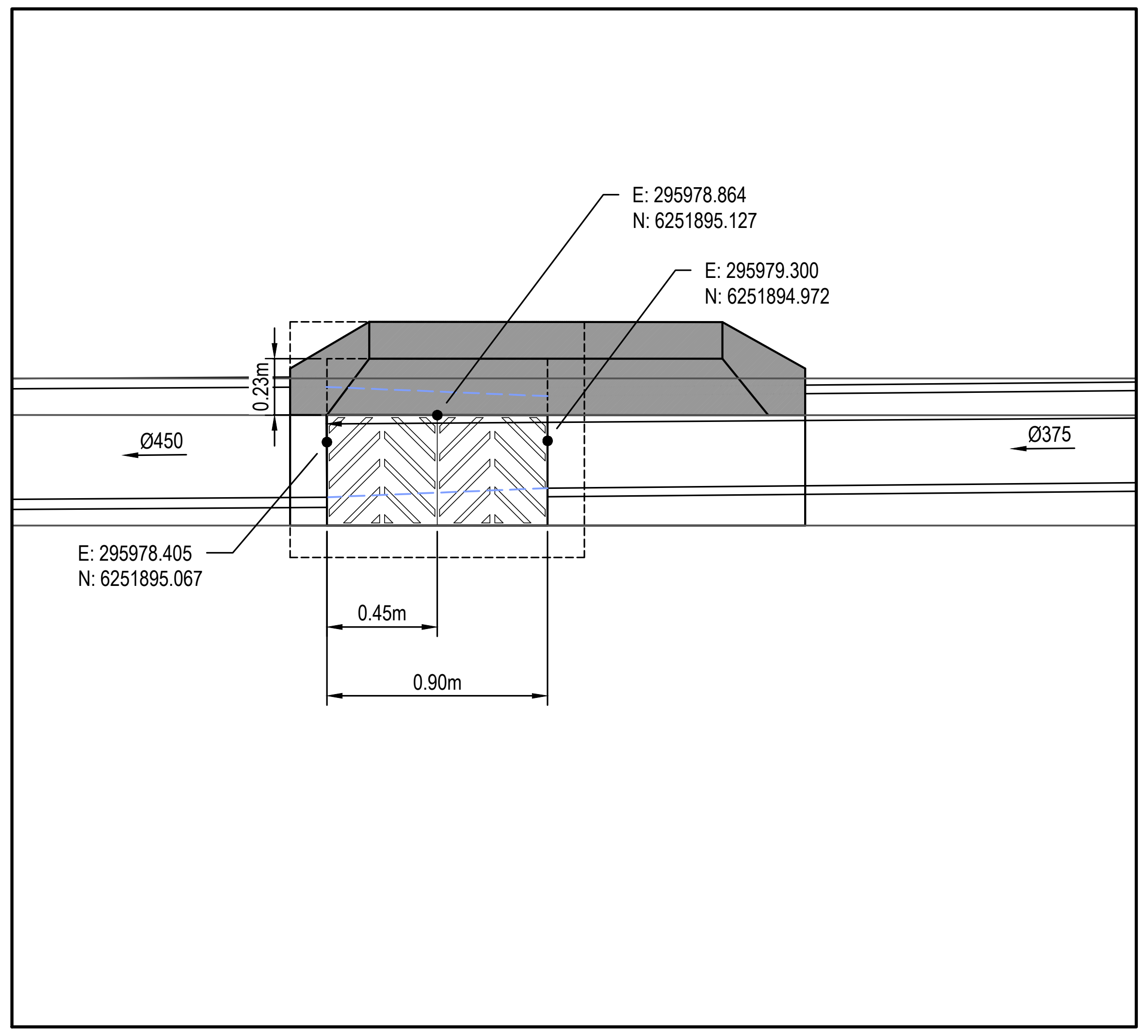
N: 6251890.460
Ø375
Ø375
E: 296018.207
N: 6251890.980
E: 296018.663
N: 6251891.067
E: 296018.639
N: 6251890.617
Ø375

A-1 SETOUT

SCALE 1:25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Ø375
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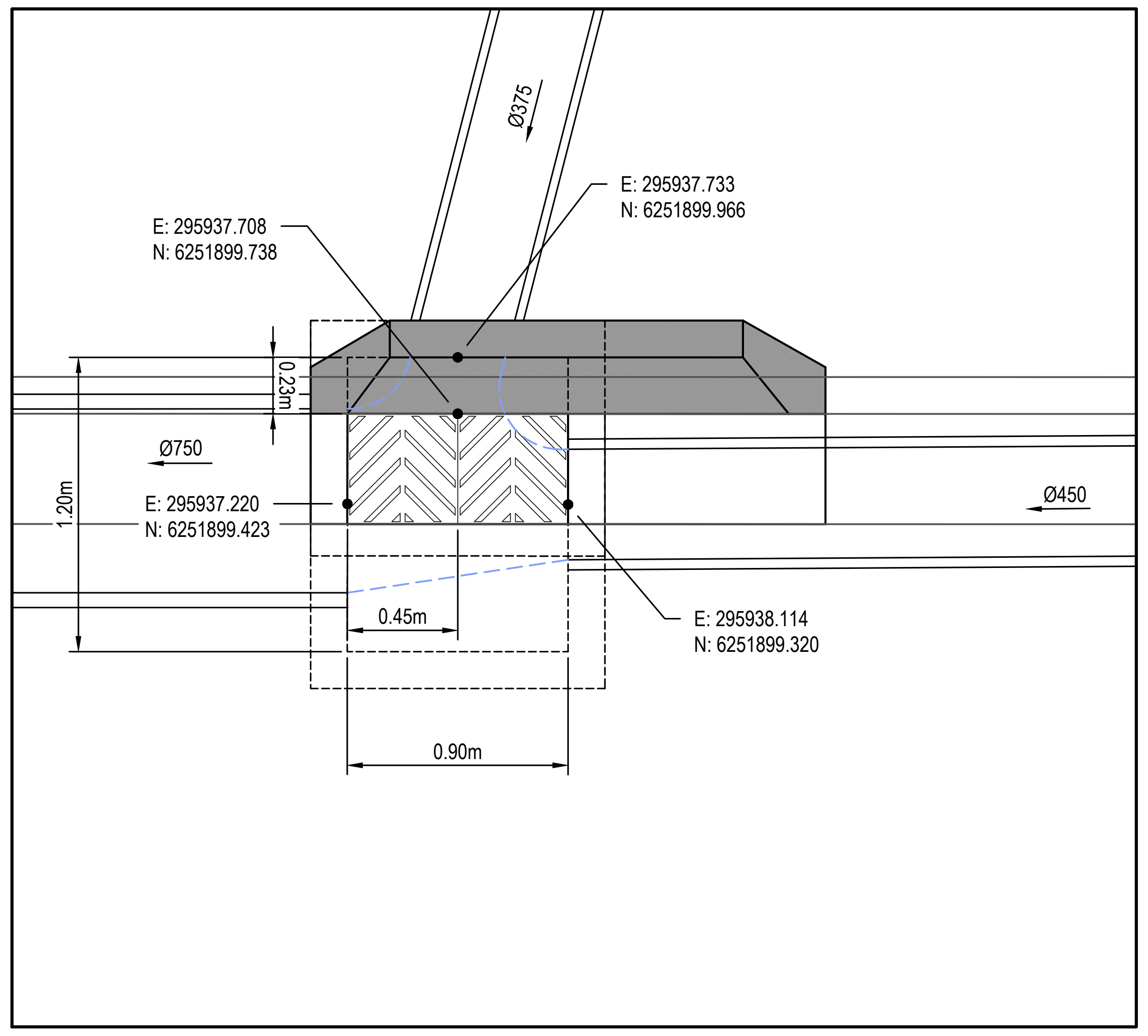
0.45m
0.90m

A-2 SETOUT

SCALE 1:25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E: 295937.708
N: 6251899.738
E: 295937.733
N: 6251899.966
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Ø750
1.20m
E: 295937.220
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Ø450
0.45m
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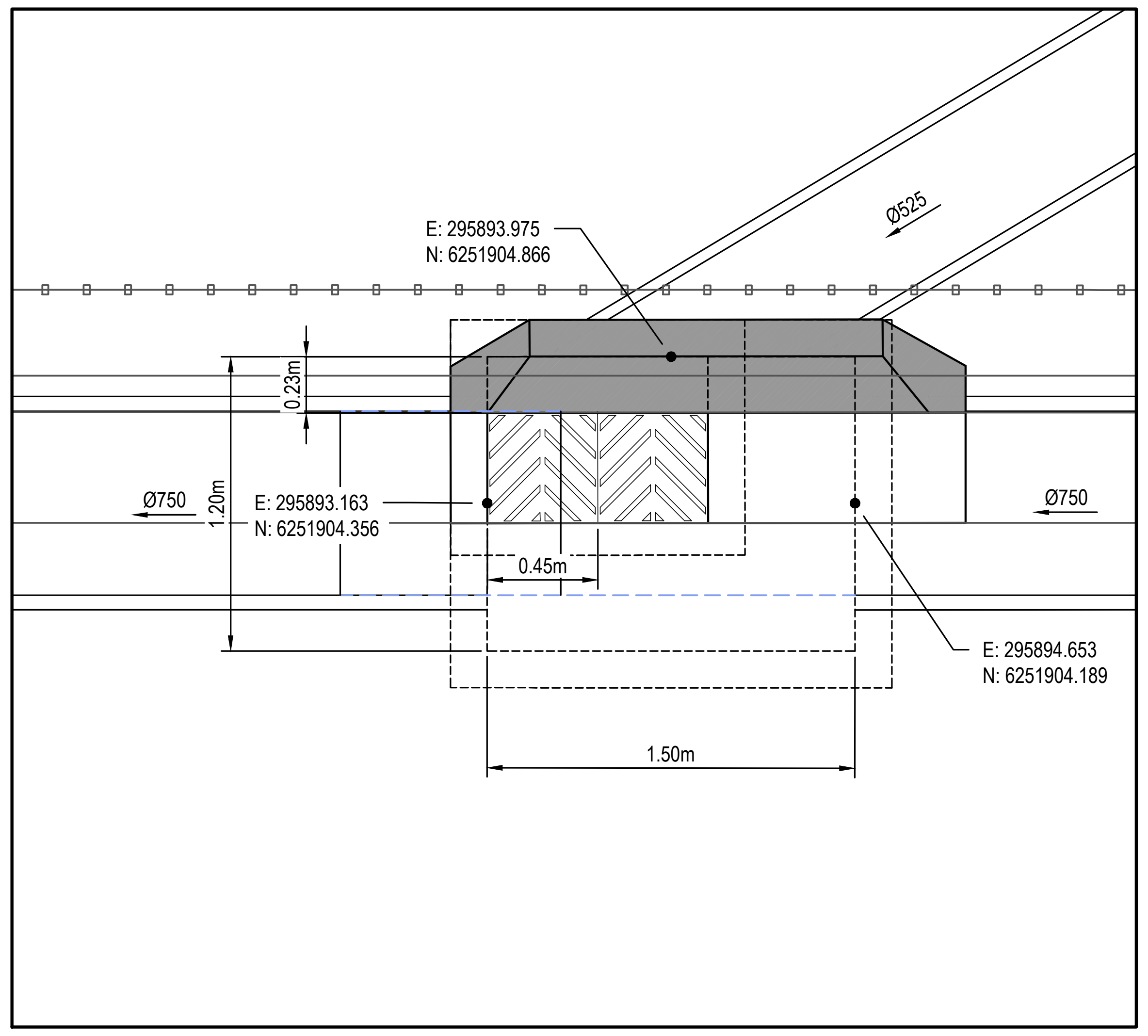
0.90m

A-3 SETOUT

SCALE 1:25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Ø750
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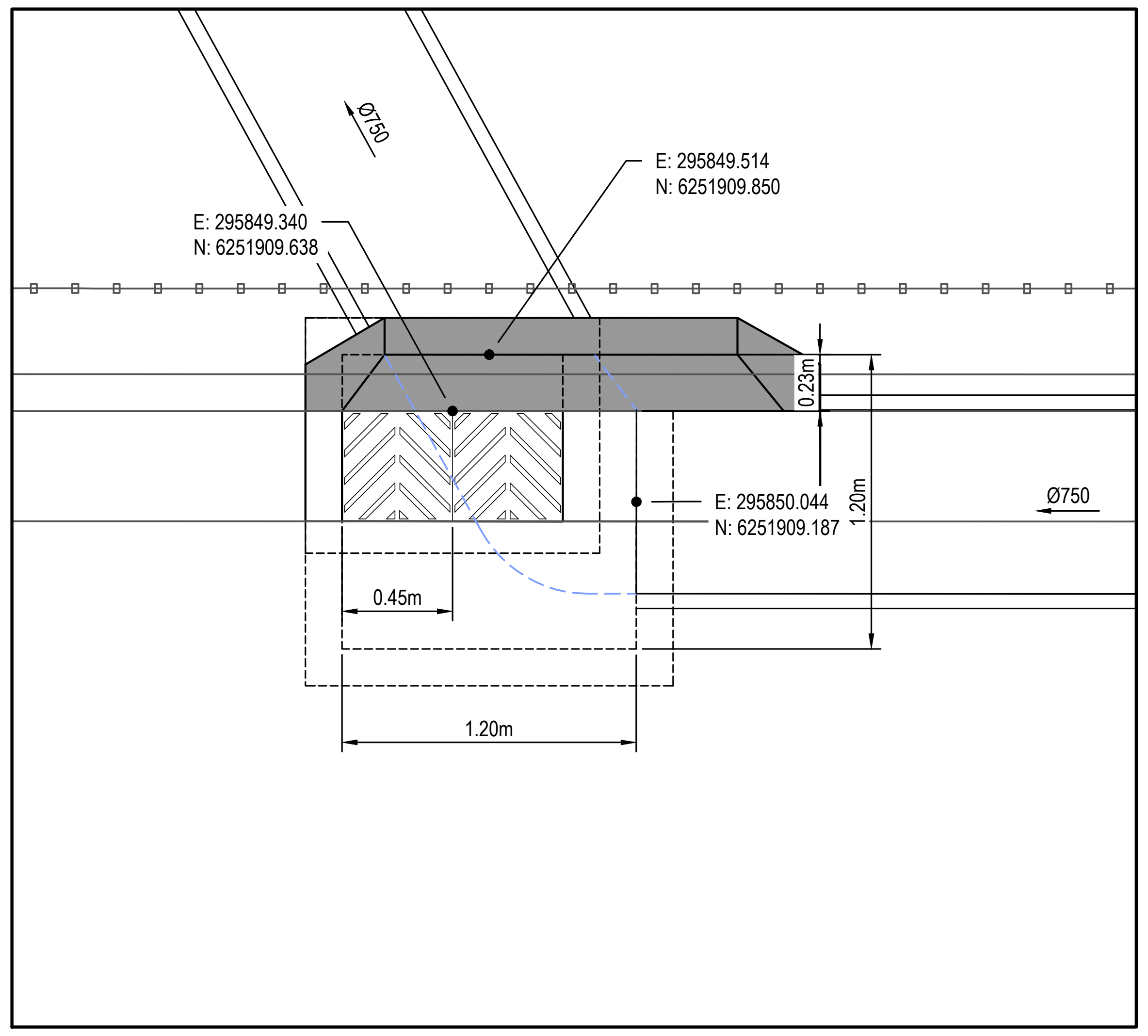
A-4 SETOUT

SCALE 1:25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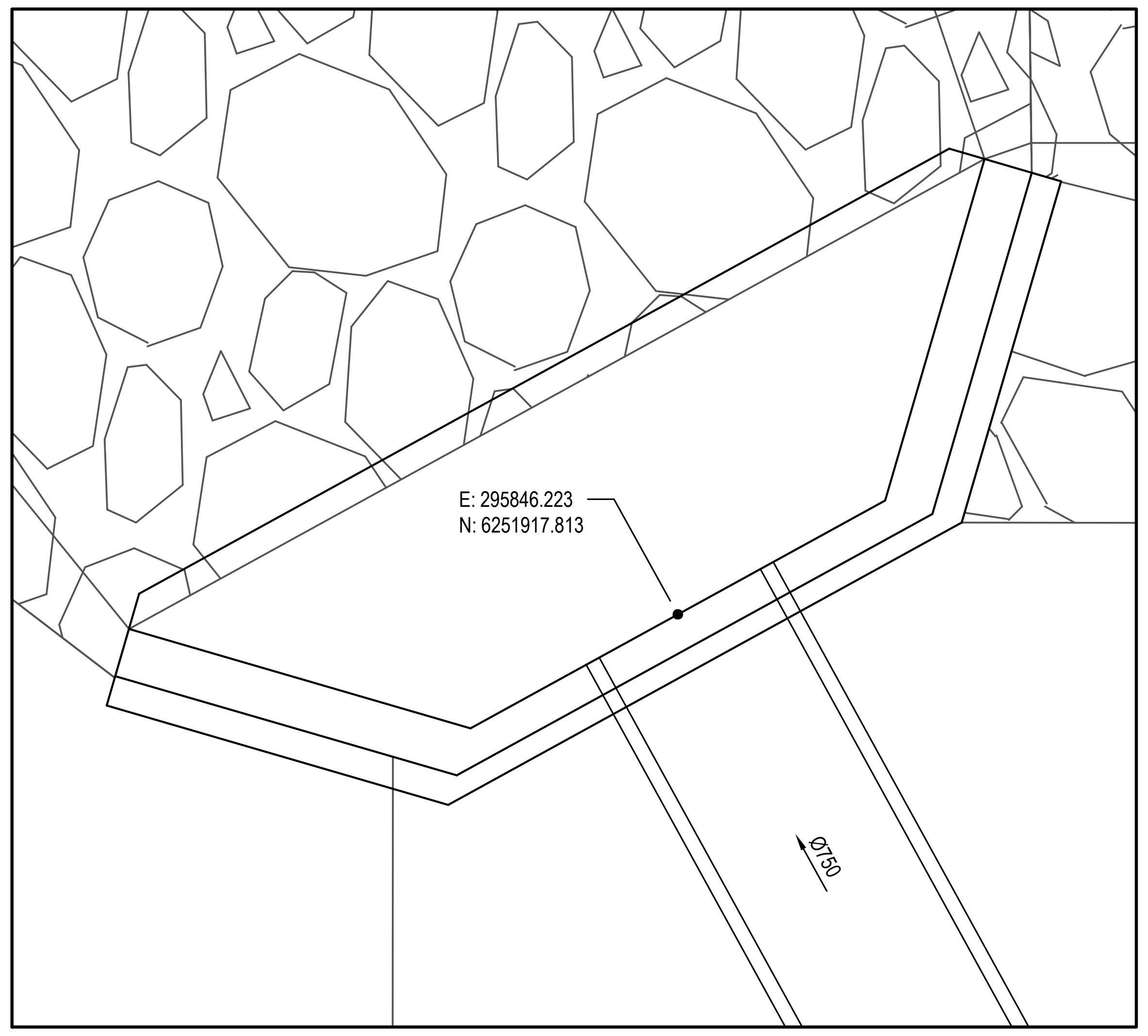
Ø750
0.45m
1.20m

A-5 SETOUT

SCALE 1:25


E: 295846.223
N: 6251917.813
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A-6 SETOUT

SCALE 1:25

NOTE:

- STORMWATER PIT CHAMBER DIMENSIONS SHOWN ON THIS PLAN ARE SHOWN AS A GUIDE ONLY. CONTRACTOR TO CONFIRM CHAMBER DIMENSIONS ON SITE WITH SITE SUPERINTENDENT
- ALL PITS TO HAVE MASS CONCRETE (N20) BENCHING TO ENSURE SMOOTH FLOW & SMOOTH TRANSITION FROM ENTRY PIPES TO EXIT PIPES.
- BENCHING MUST BE PLACED TO ENSURE SURFACE IS SMOOTH & FREE FROM VOIDS AND CRACKS.
- BENCHING MUST BE A MIN. HEIGHT EQUAL TO HALF THE BARREL OF THE PIPE.
- ENSURE ALL STEP IRONS ARE LOCATED ON THE CLOSEST FACE TO THE OPENING TO ALLOW FREE ACCESS TO THE CHAMBER.
- WHERE SUBSOIL IS INSTALLED INTO THE PIT, EXTEND SUBSOIL THROUGH BENCHING TO DISCHARGE FREELY INTO CHAMBER.
- PIT WIDTHS ARE TO ALLOW FOR PIPE DIAMETER + 150mm TO PIT WALL MIN.
- IF IN DOUBT, SEEK CLARIFICATION FROM THE SUPERINTENDENT.
- STEP IRONS TO BE INSTALLED IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARDS AND AS1657.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

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Client

Scales	1:25	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER DRAINAGE
SETOUT PLAN
SHEET 1

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 9923 1055
www.atl.net.au
info@atl.net.au

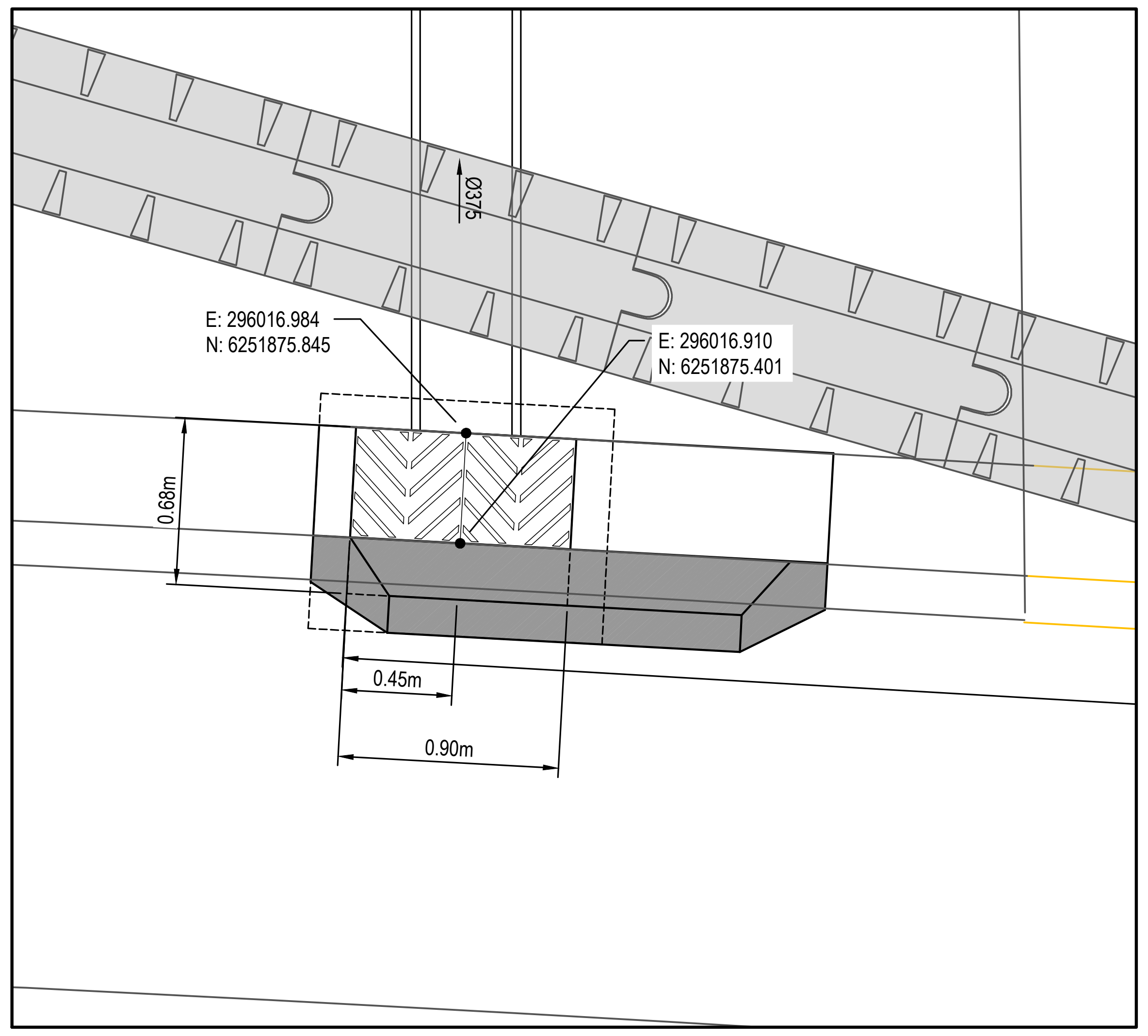
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1450

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1450.dwg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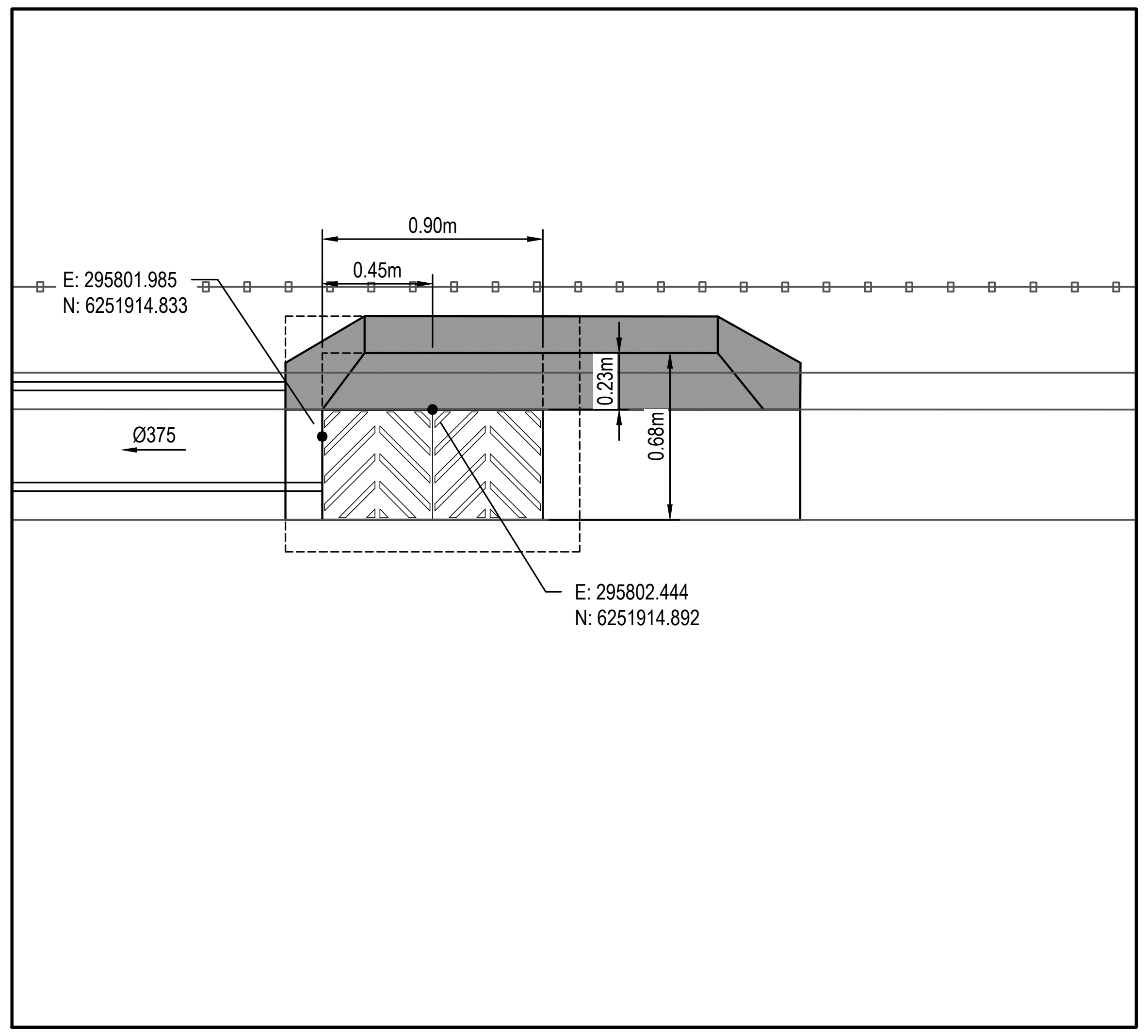
0.68m
0.45m
0.90m

A-1A SETOUT

SCALE 1:25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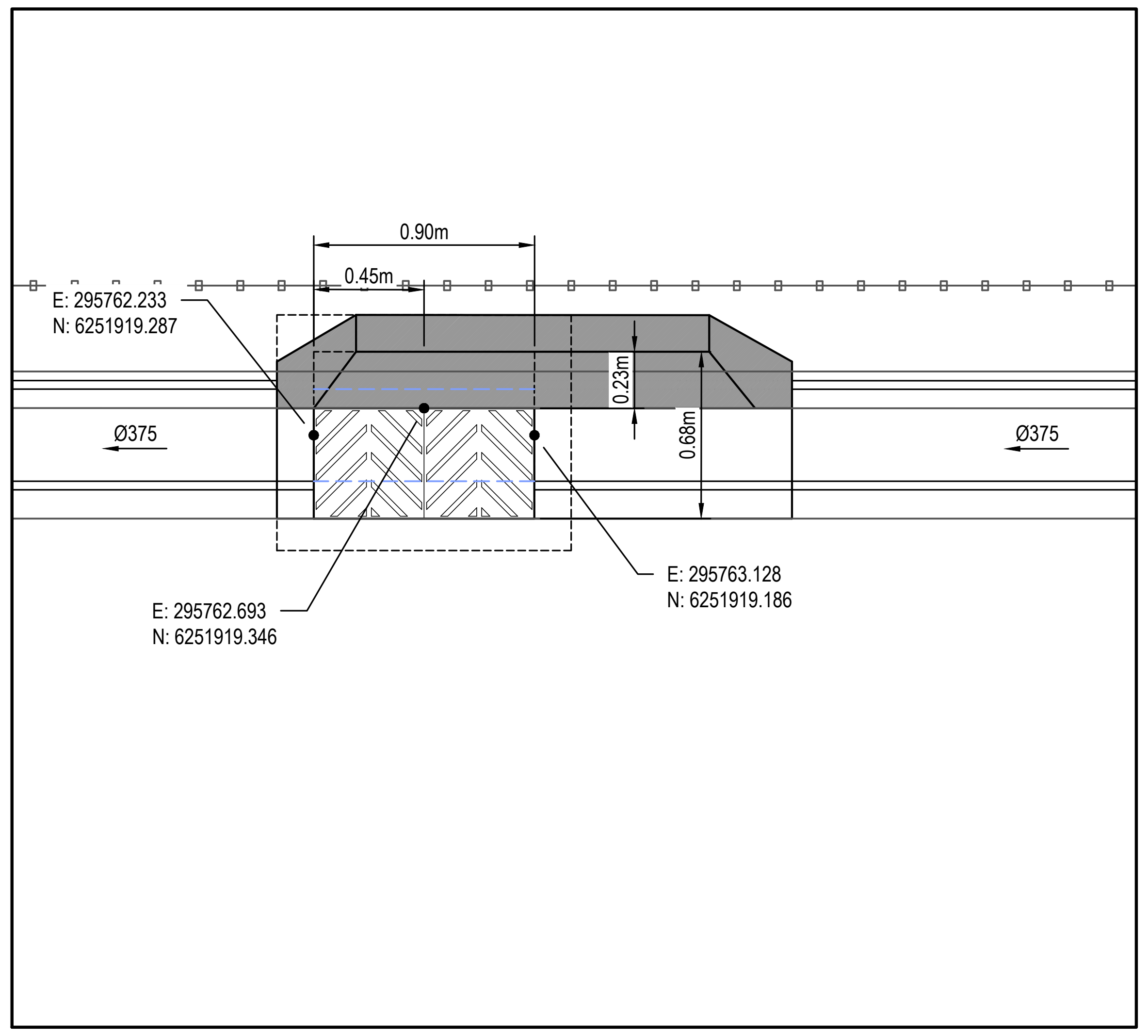
B-1 SETOUT

SCALE 1:25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Ø375
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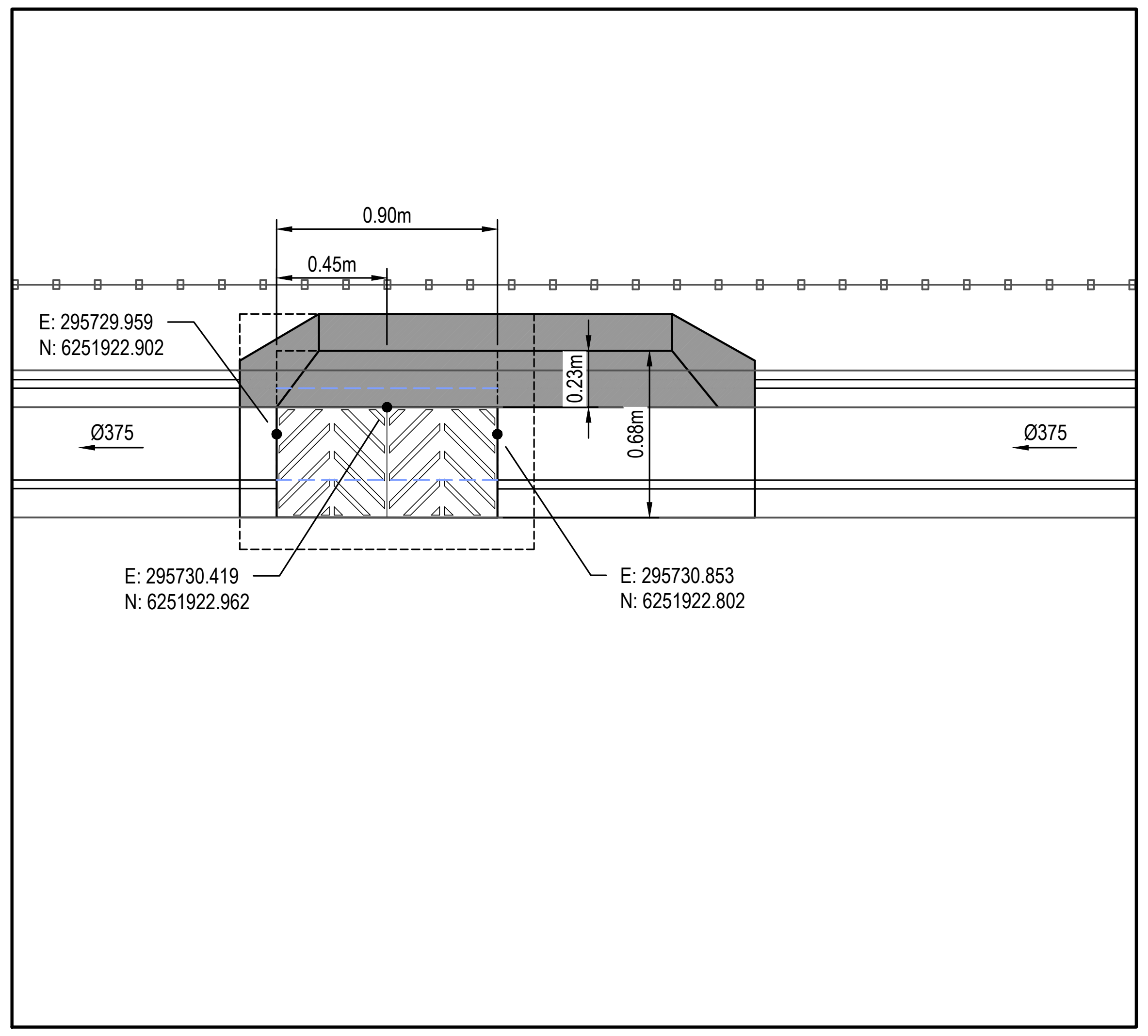
N: 6251919.346

B-2 SETOUT

SCALE 1:25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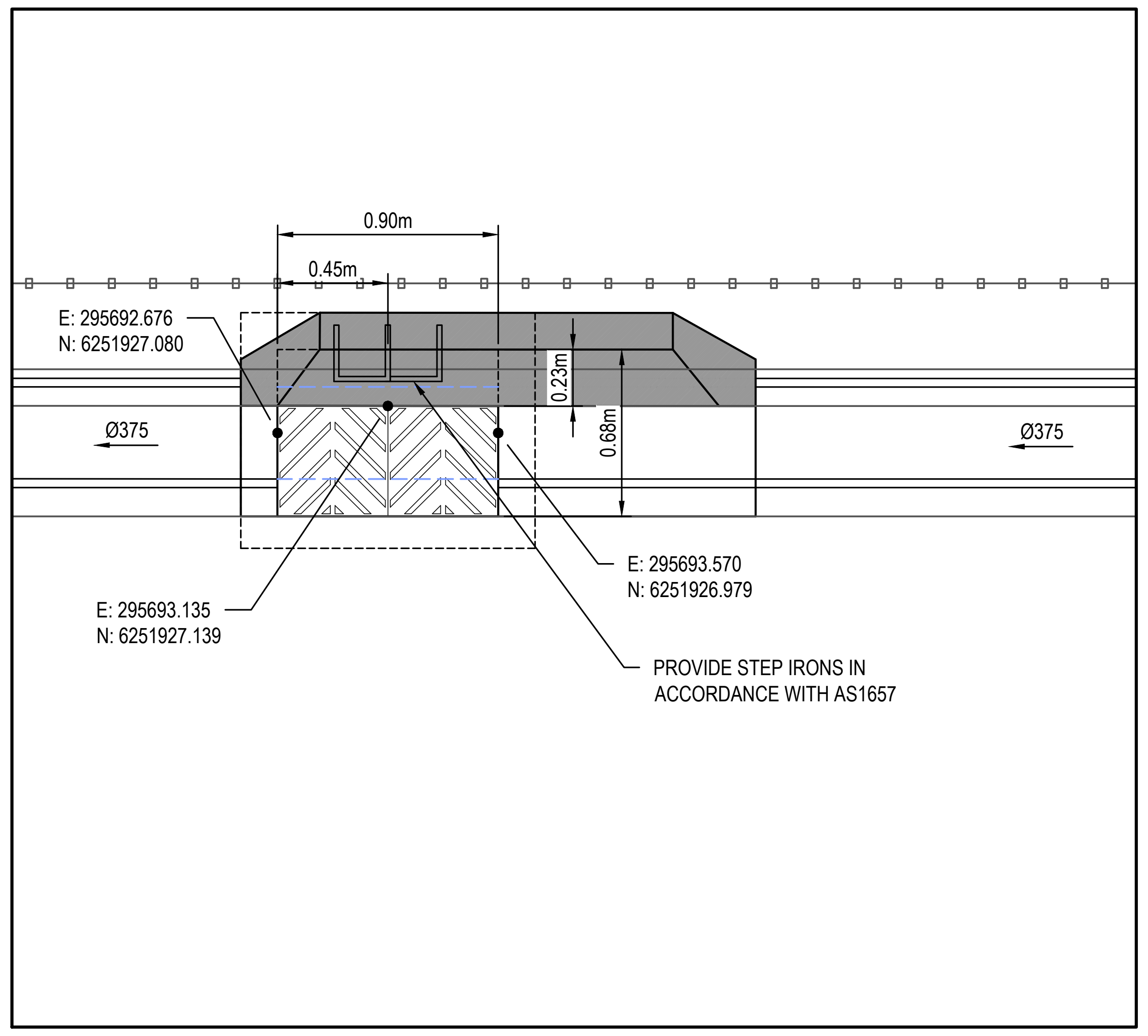
B-3 SETOUT

SCALE 1:25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0.68m
Ø375
Ø375
E: 295693.570
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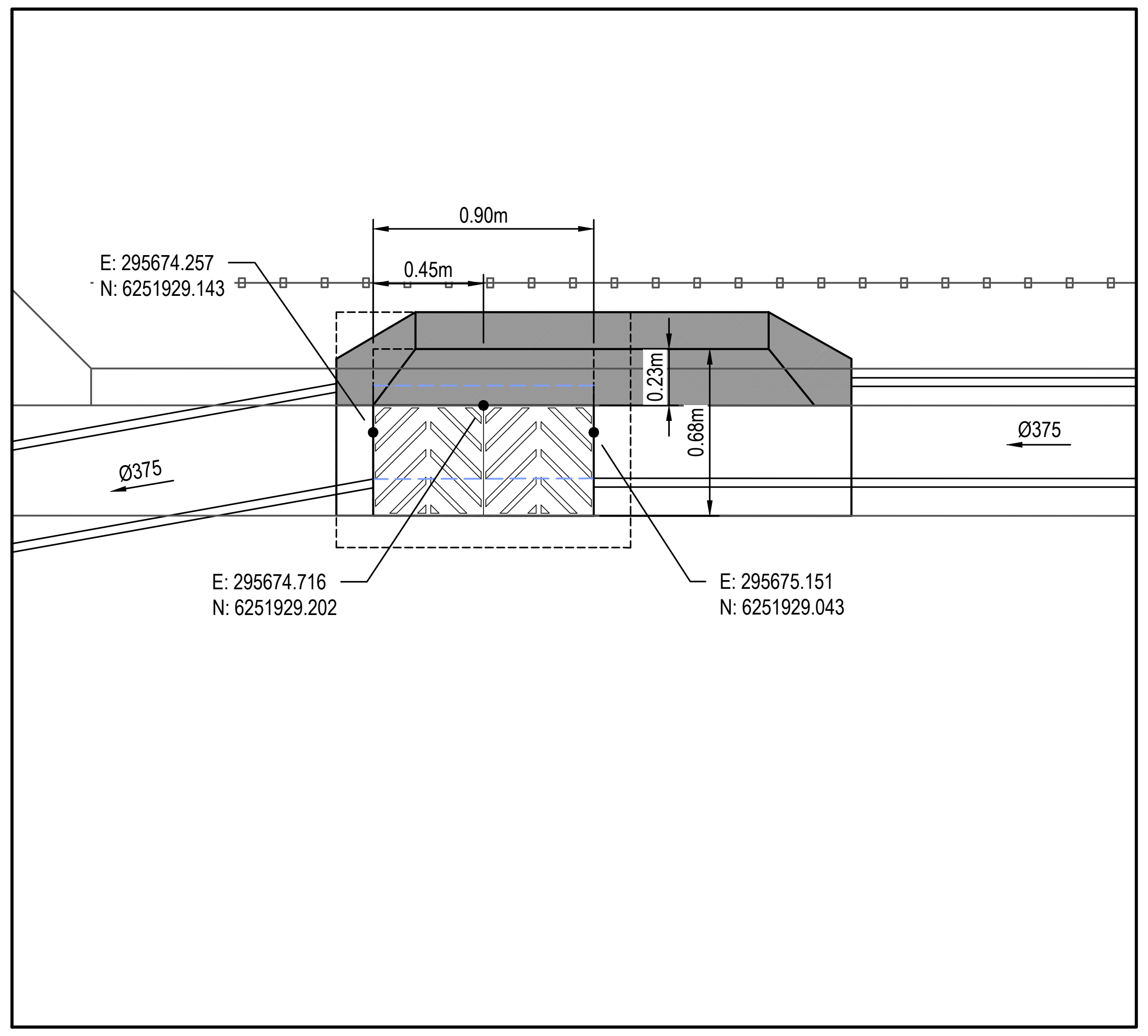
E: 295693.135
N: 6251927.139

PROVIDE STEP IRONS IN ACCORDANCE WITH AS1657

B-4 SETOUT

SCALE 1:25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Ø375
E: 295674.716
N: 6251929.202
E: 295675.151
N: 6251929.043

B-5 SETOUT

SCALE 1:25

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

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Client

ICON
OCEANIA

Scales	1:25	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER DRAINAGE
SETOUT PLAN
SHEET 2

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

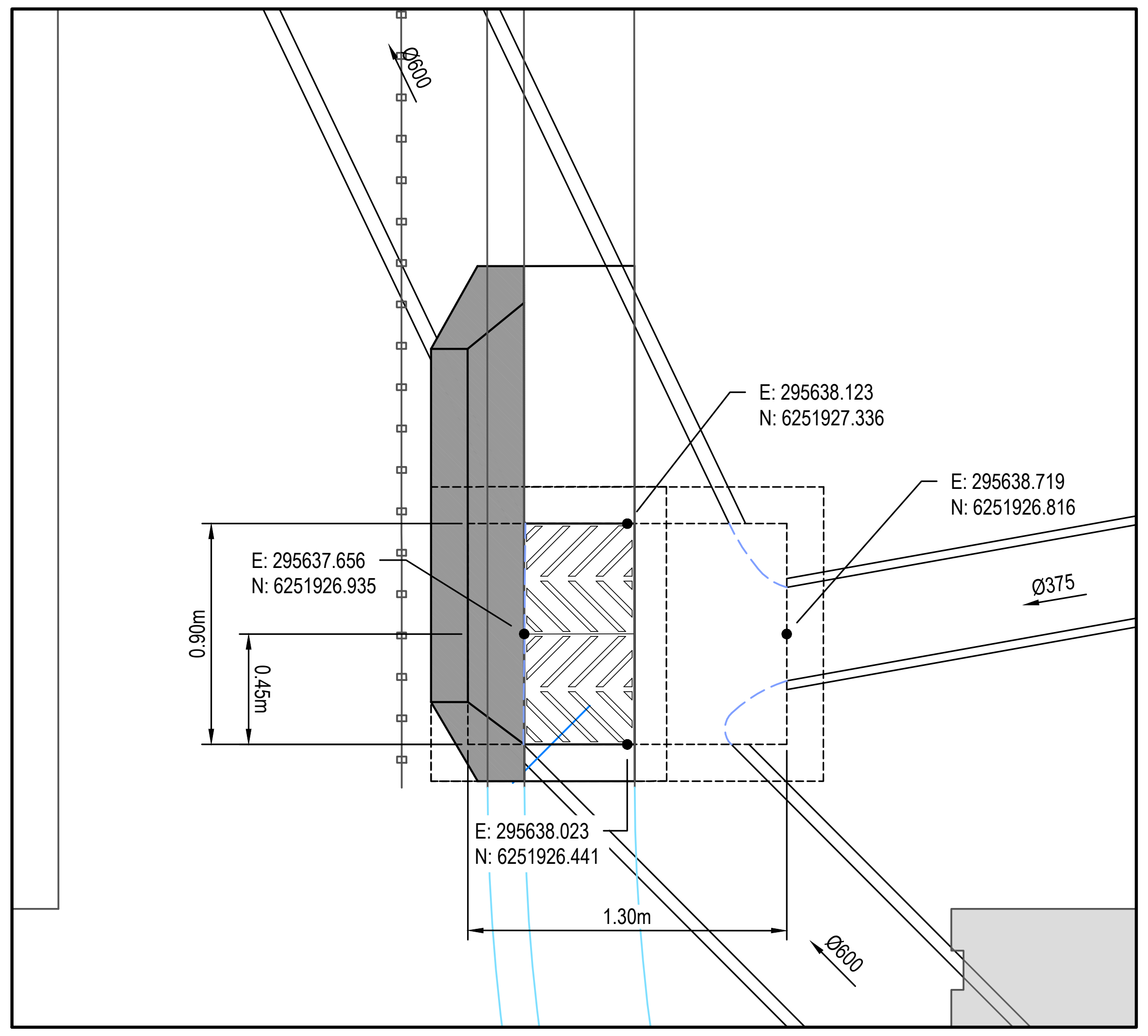
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1451

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1451.dwg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0.45m
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N: 6251926.441
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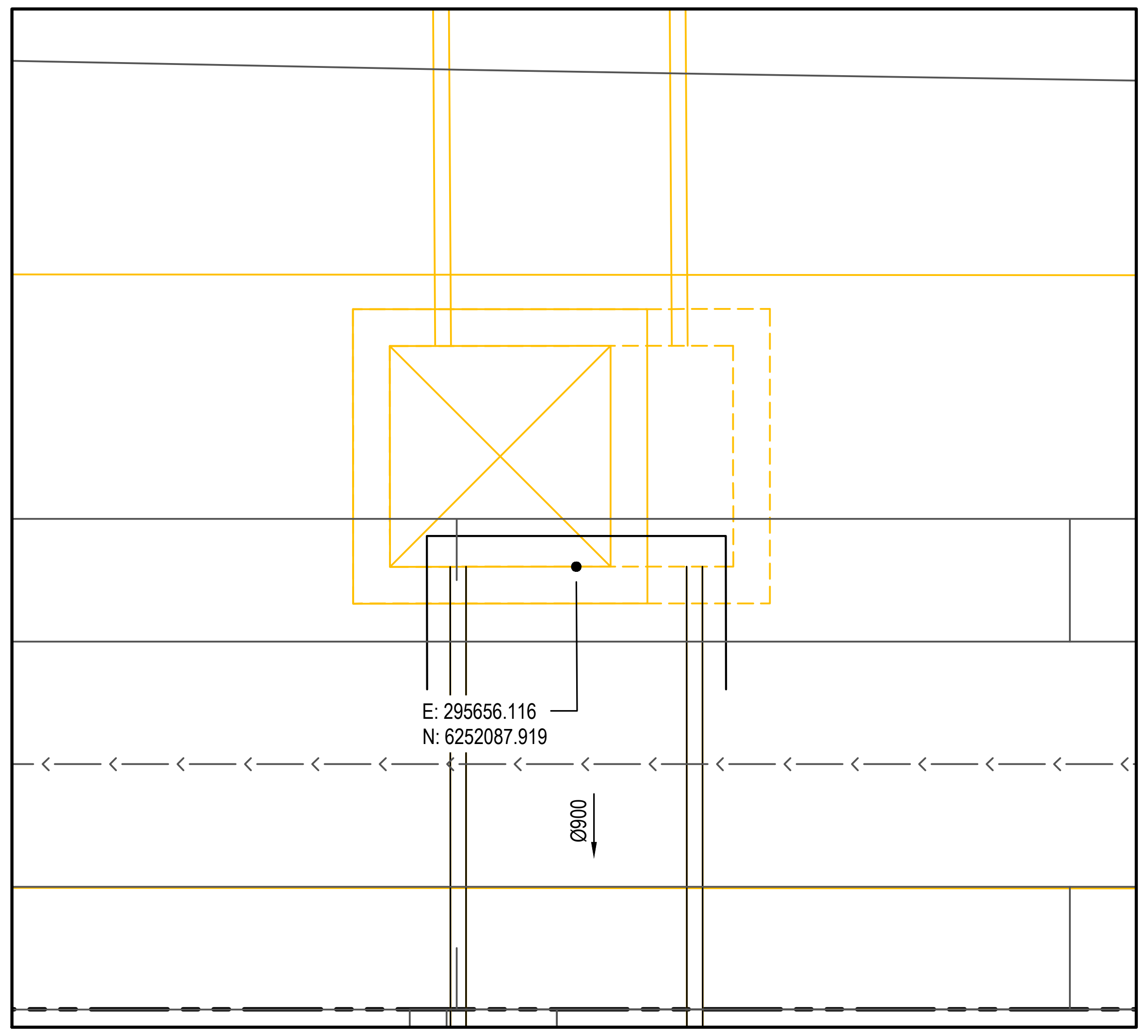
B-6 SETOUT

SCALE 1:25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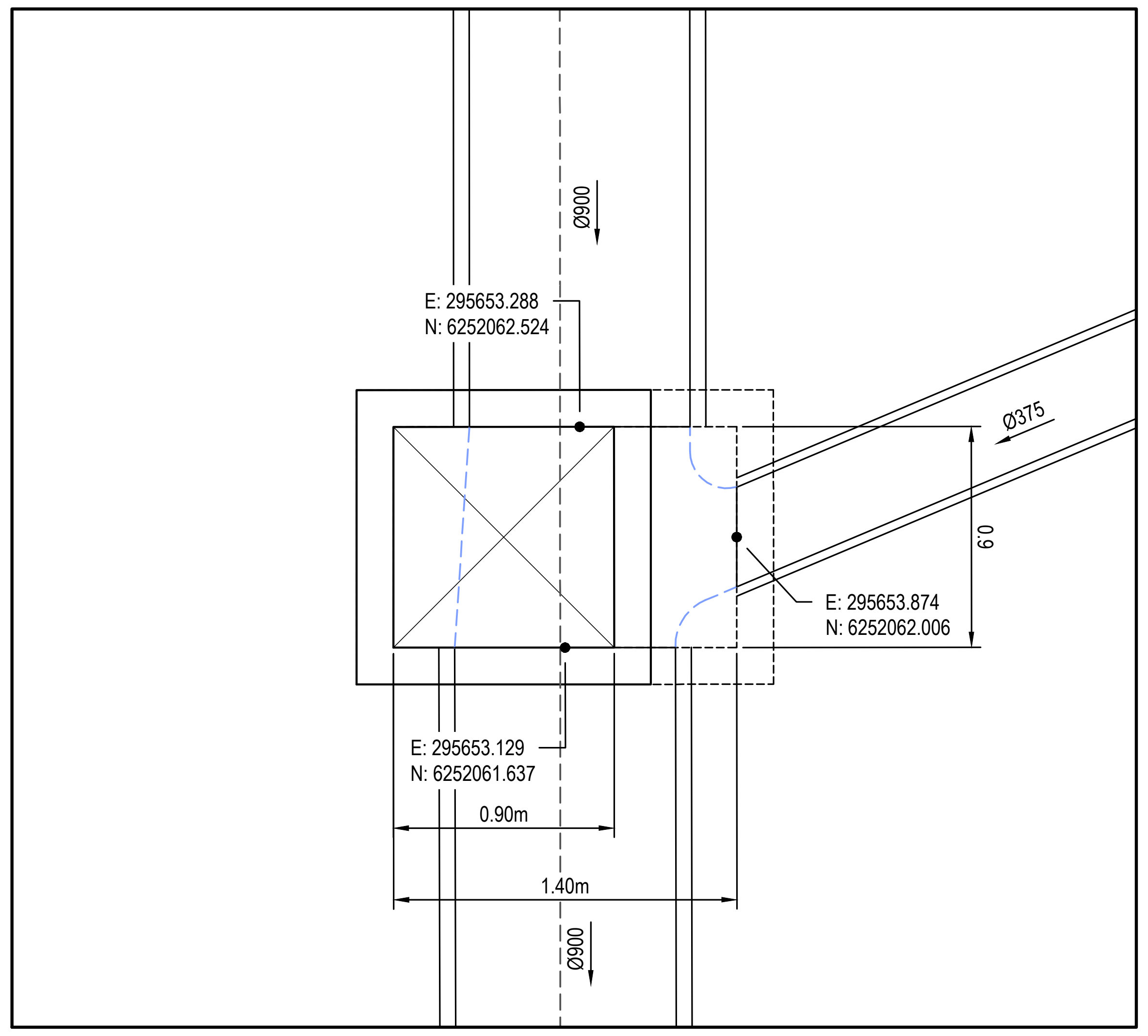
C-1 SETOUT

SCALE 1:25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1.40m
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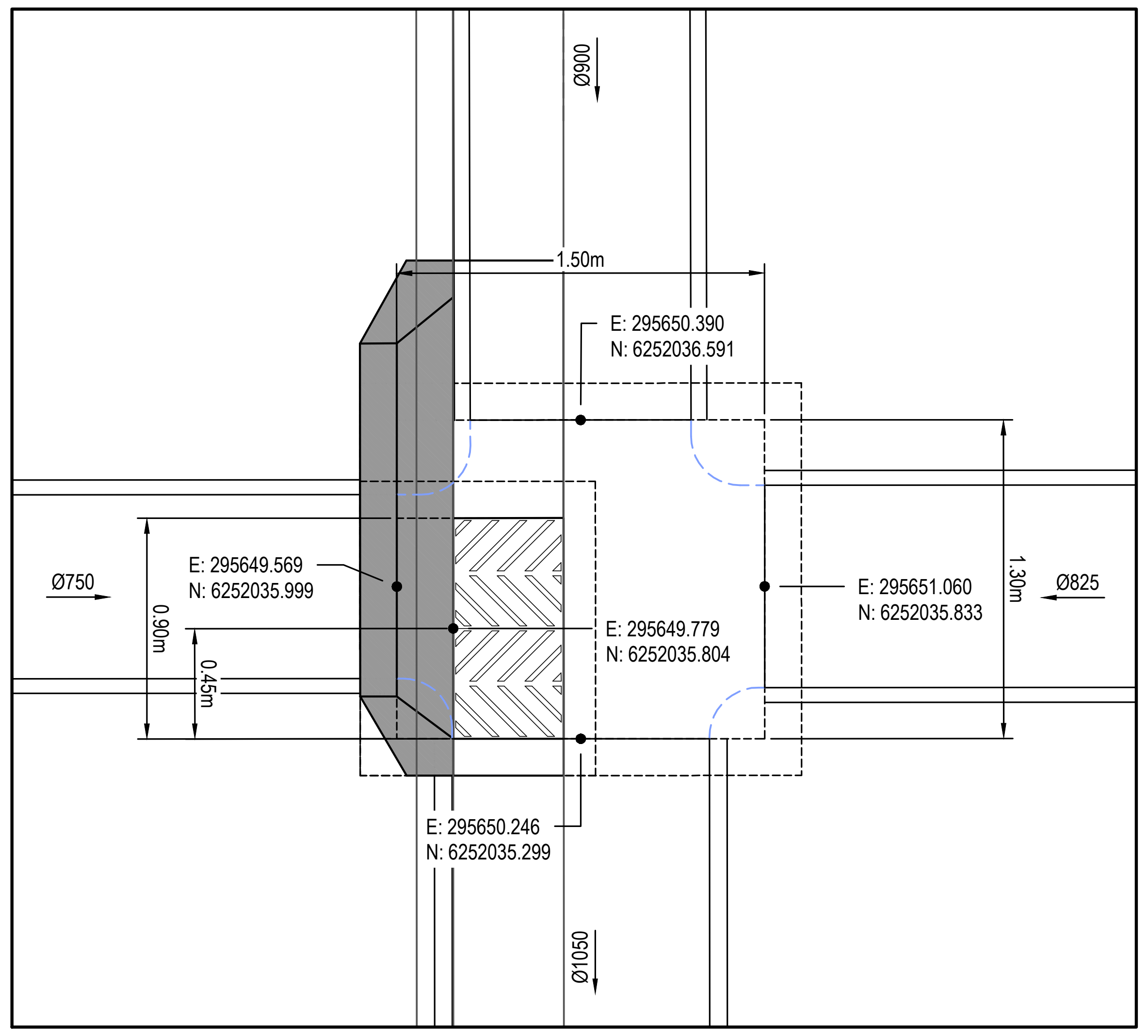
C-2 SETOUT

SCALE 1:25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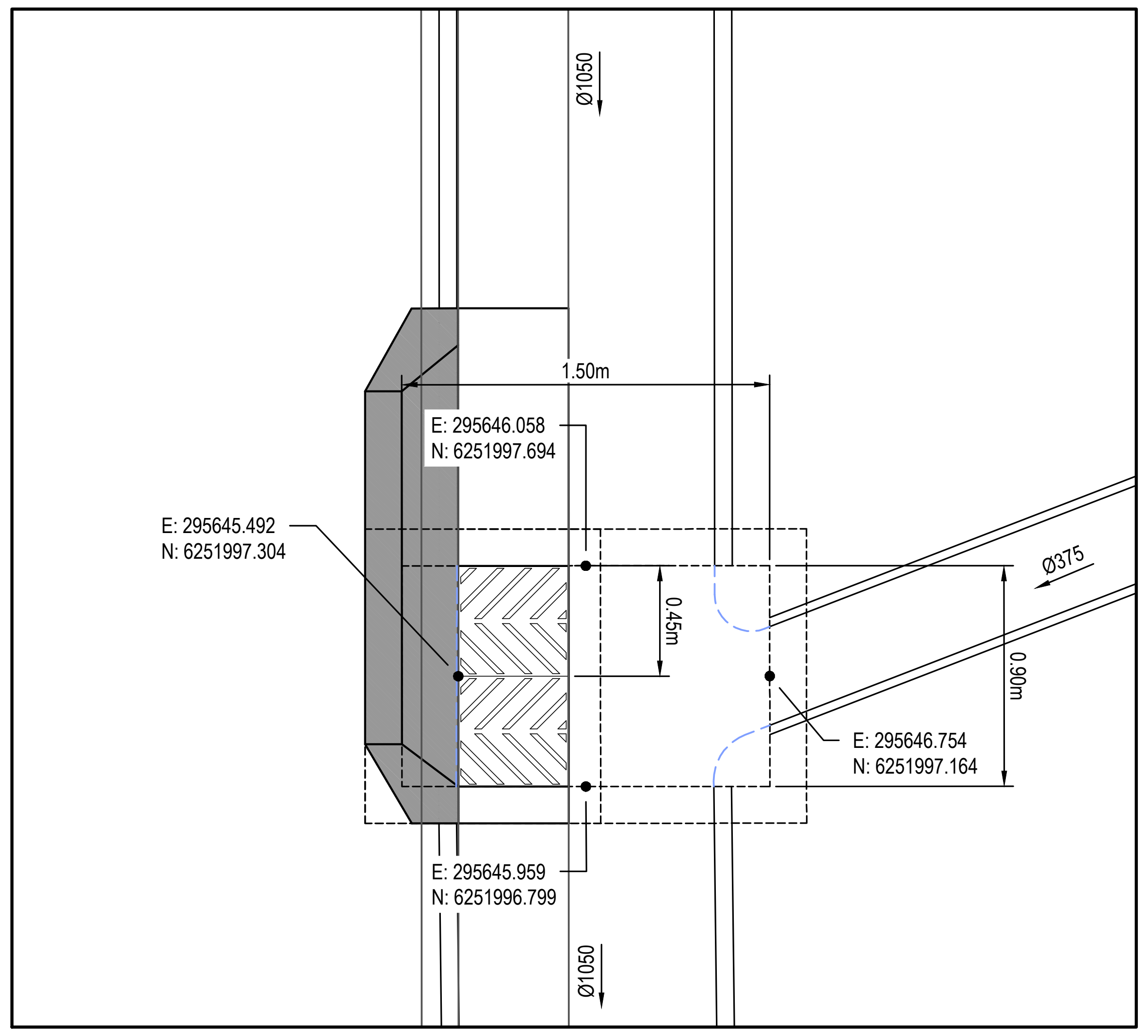
C-3 SETOUT

SCALE 1:25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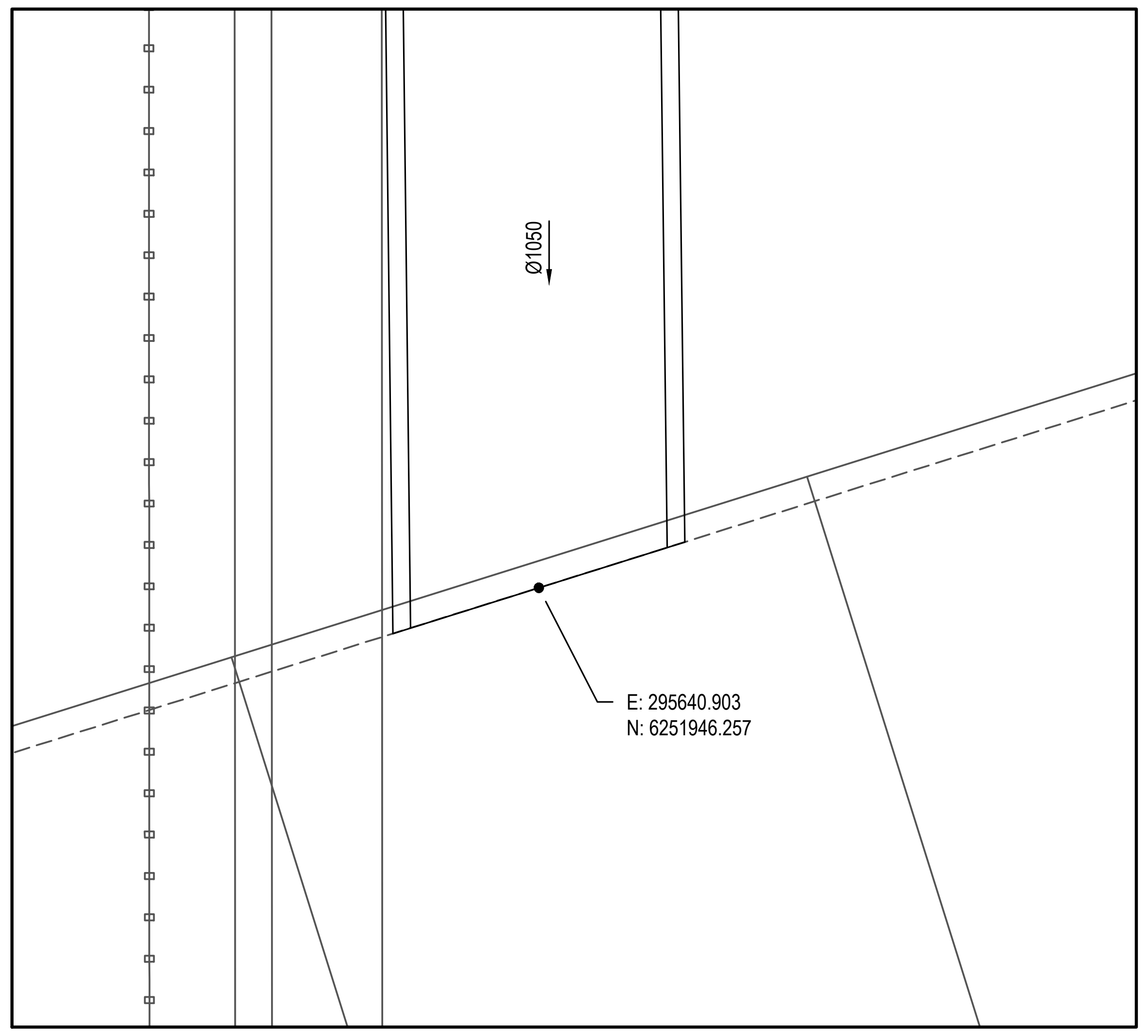
C-4 SETOUT

SCALE 1:25


Ø1050
E: 295640.903
N: 6251946.257

C-5 SETOUT

SCALE 1:25

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

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Client

ICON
OCEANIA

Scales	1:20	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER DRAINAGE
SETOUT PLAN
SHEET 3

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

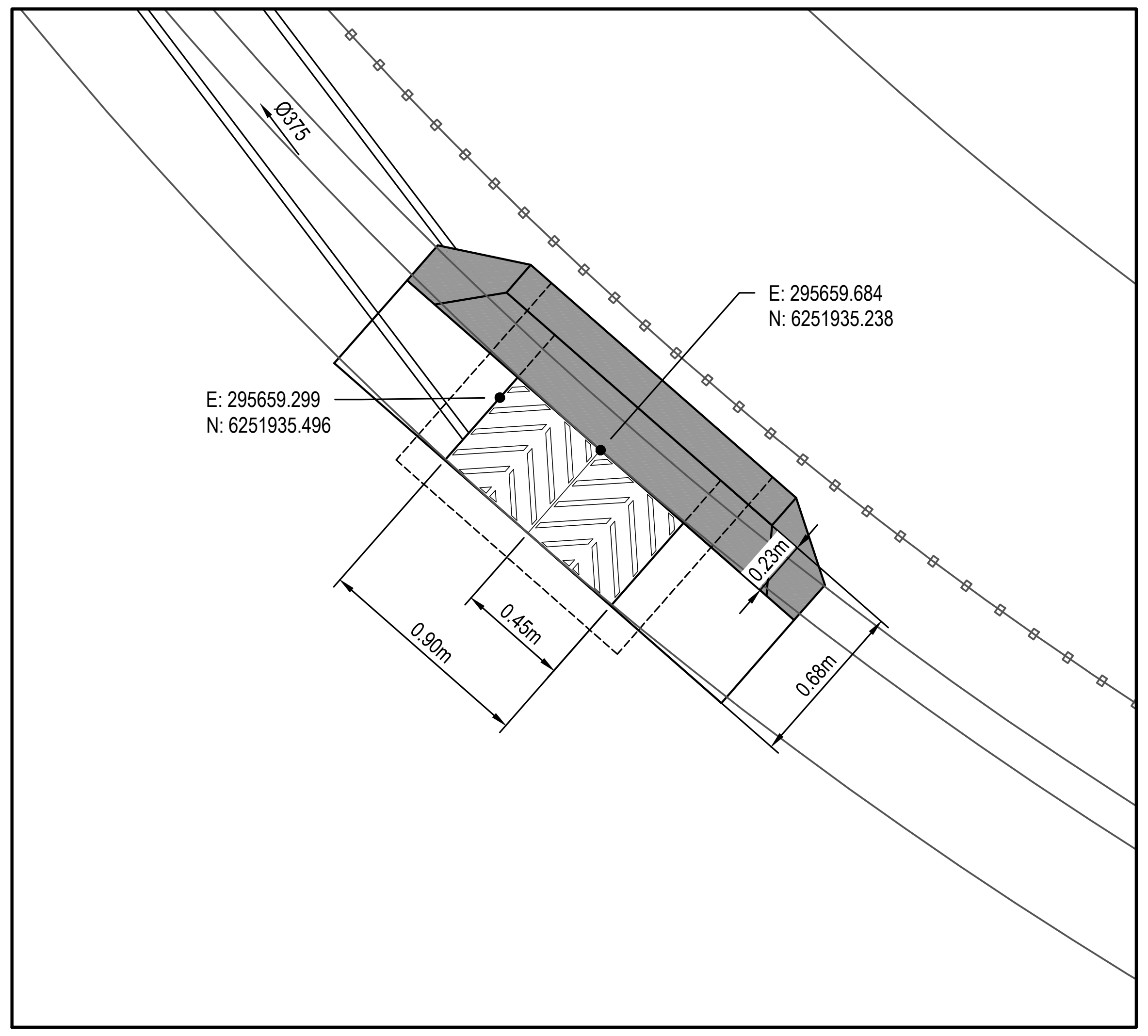
A1

Project - Drawing No.
21-860-C1452

Issue
B

100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1452.dwg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N: 6251935.496
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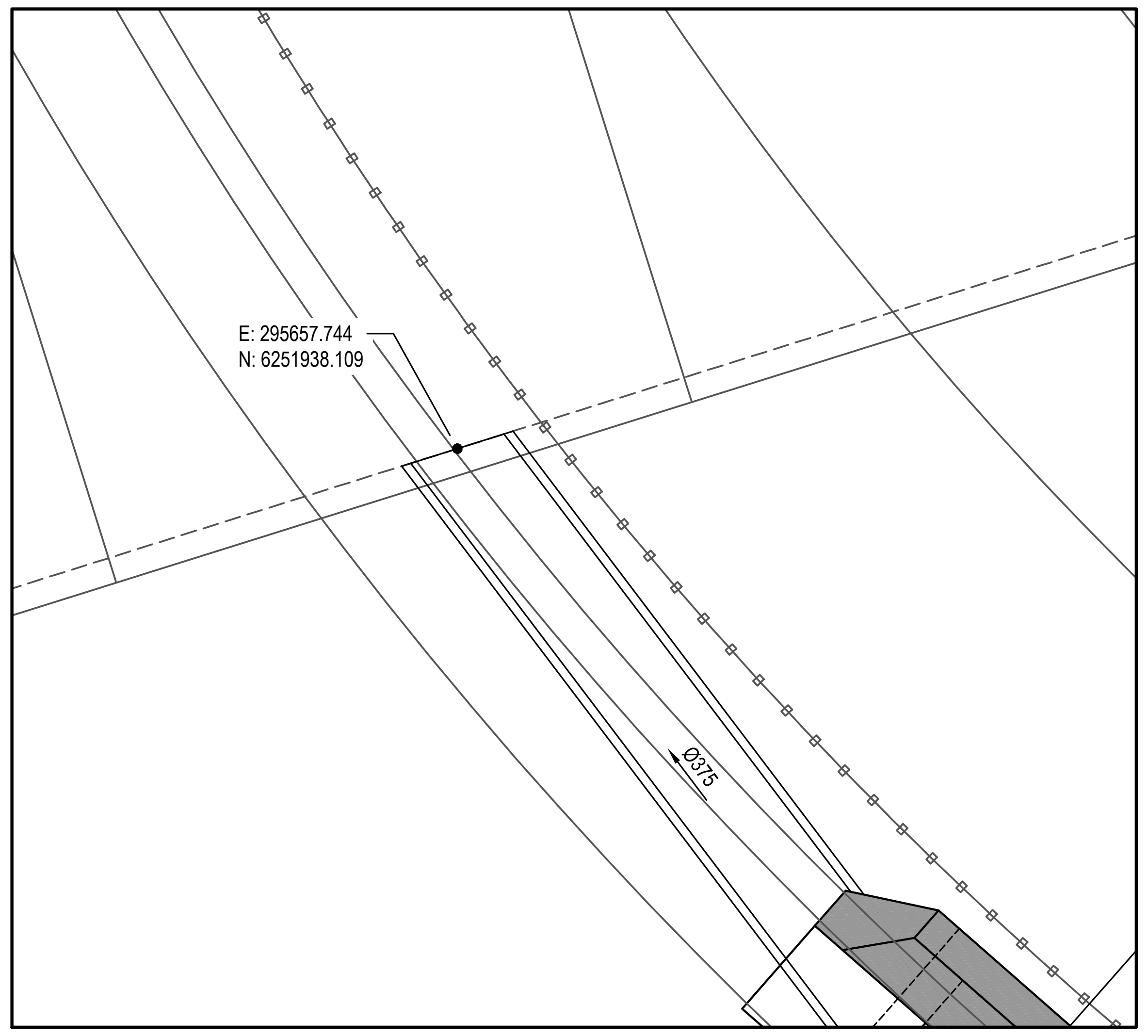
D-1 SETOUT

SCALE 1:25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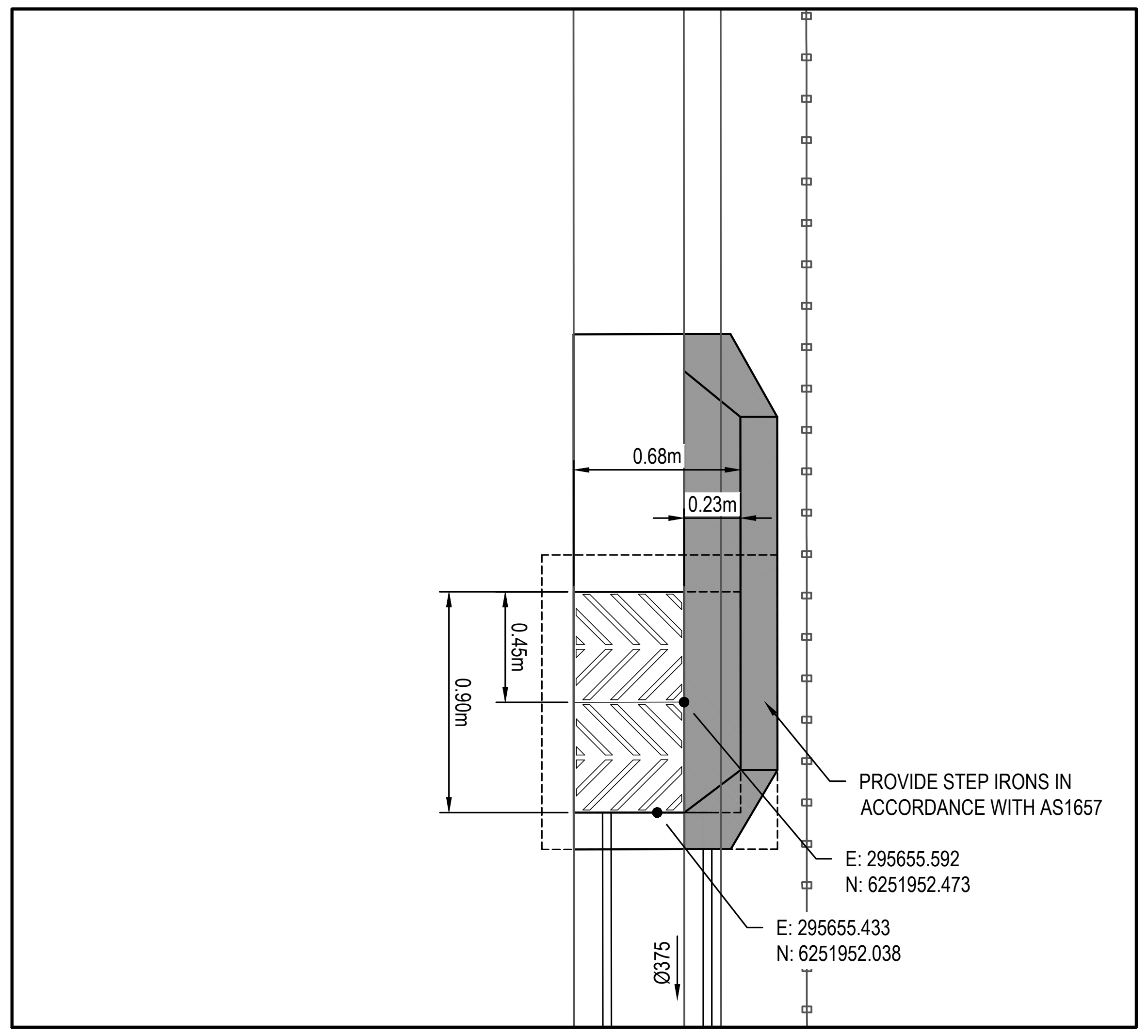
D-2 SETOUT

SCALE 1:25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0.23m
0.45m
0.90m
PROVIDE STEP IRONS IN
ACCORDANCE WITH AS1657
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N: 6251952.038
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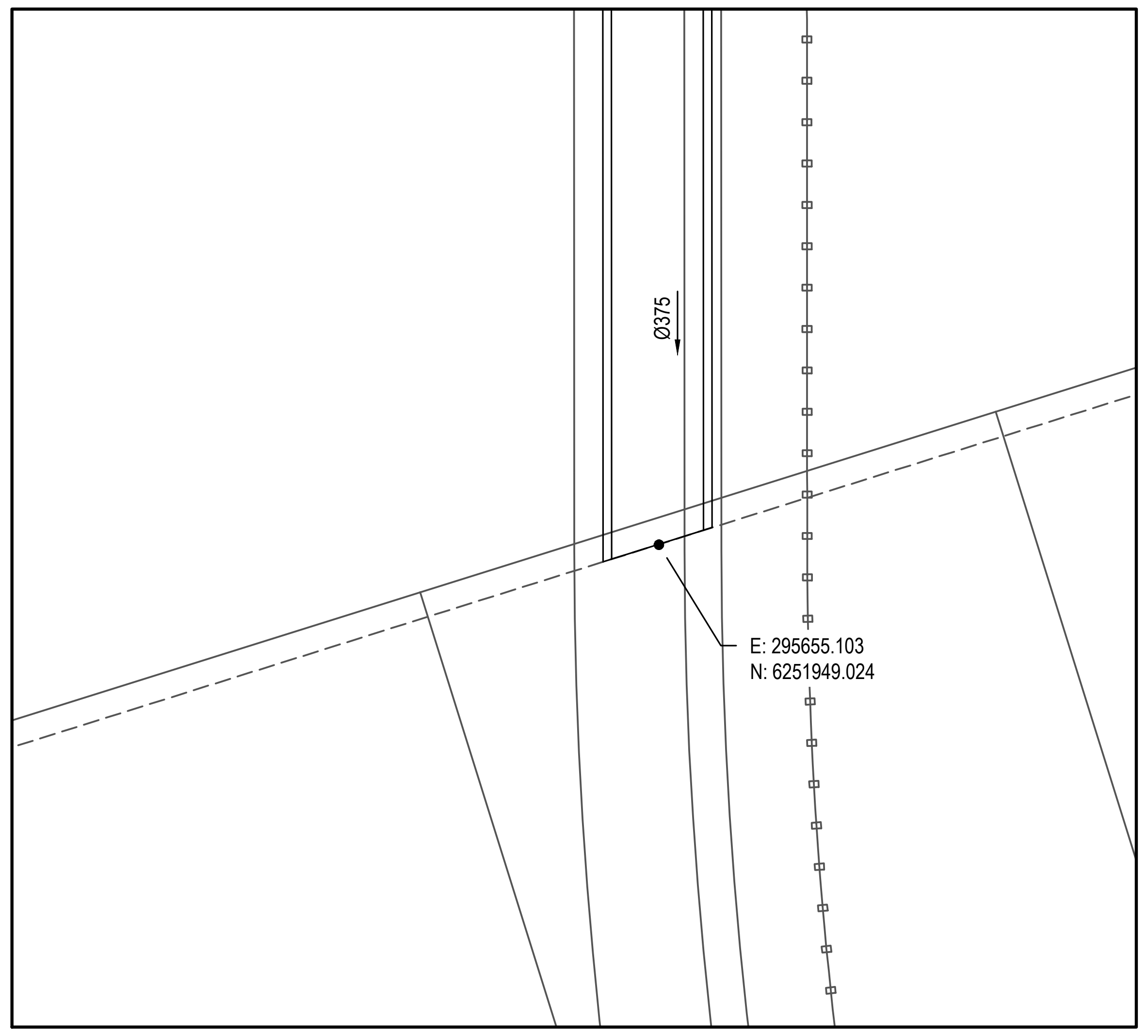
E-1 SETOUT

SCALE 1:25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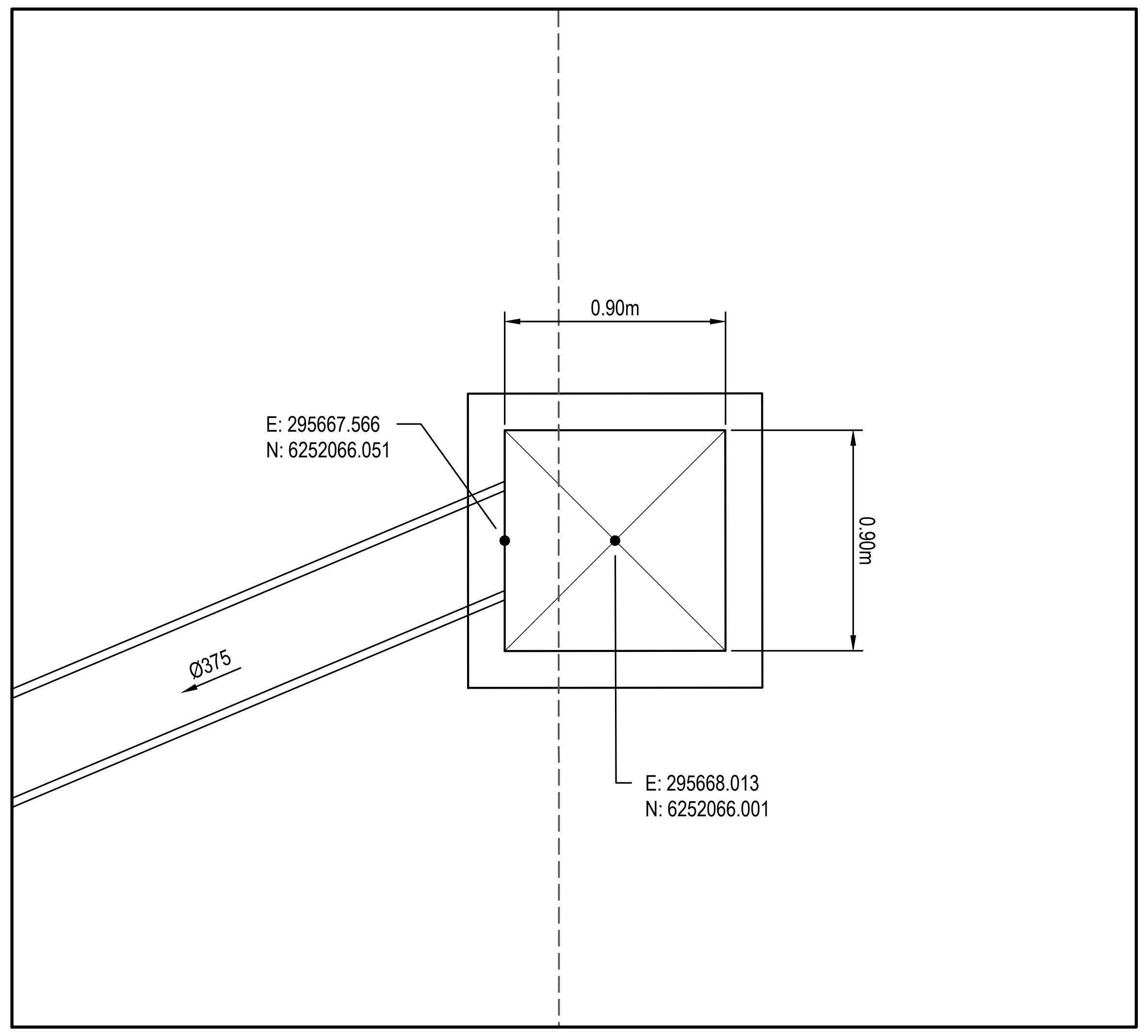
N: 6251949.024

E-2 SETOUT

SCALE 1:25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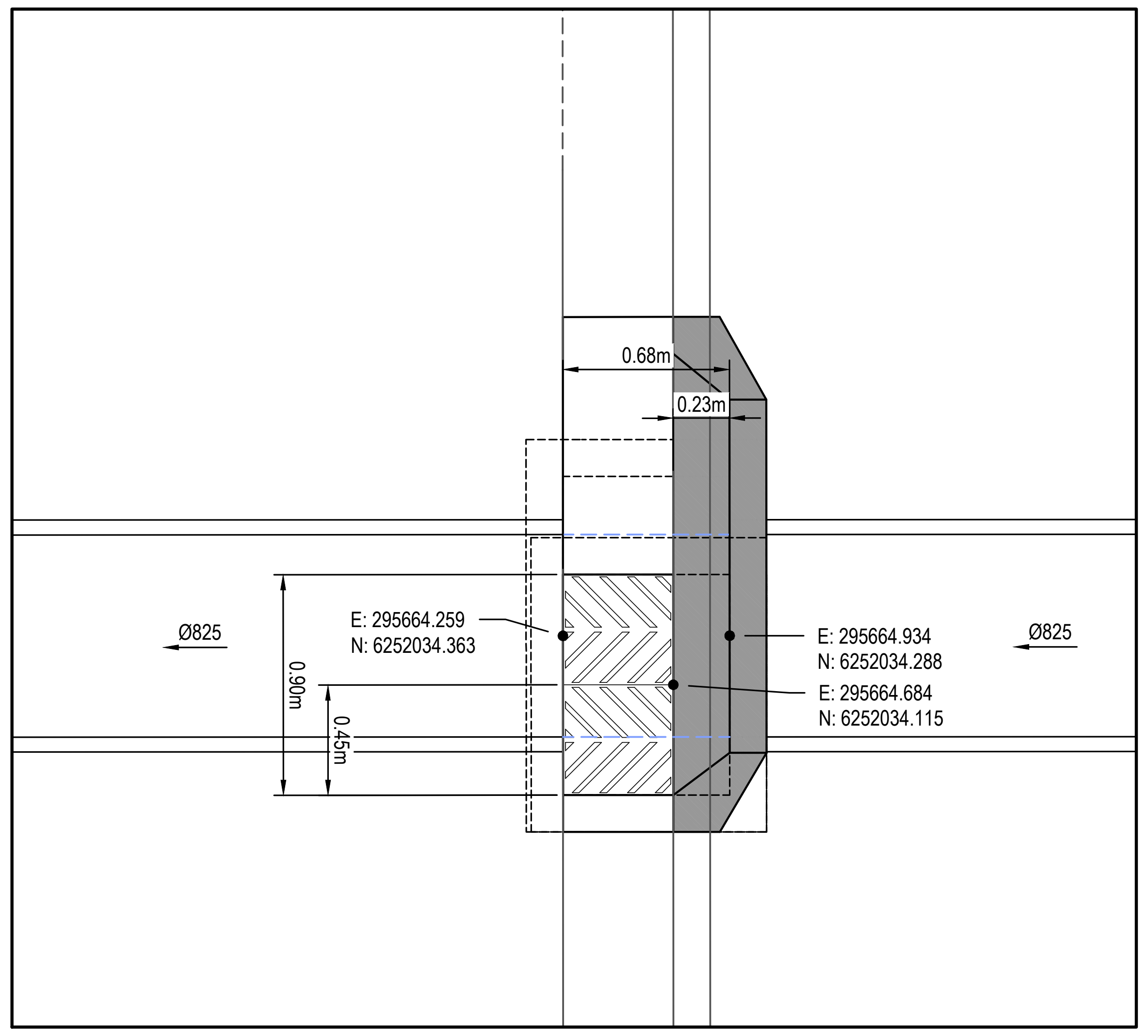
N: 6252066.001

F-1 SETOUT

SCALE 1:25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E: 295664.934
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E: 295664.684
N: 6252034.115
Ø825

G-1 SETOUT

SCALE 1:25

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

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Client

ICON
OCEANIA

Scales	1:20	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER DRAINAGE
SETOUT PLAN
SHEET 4

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

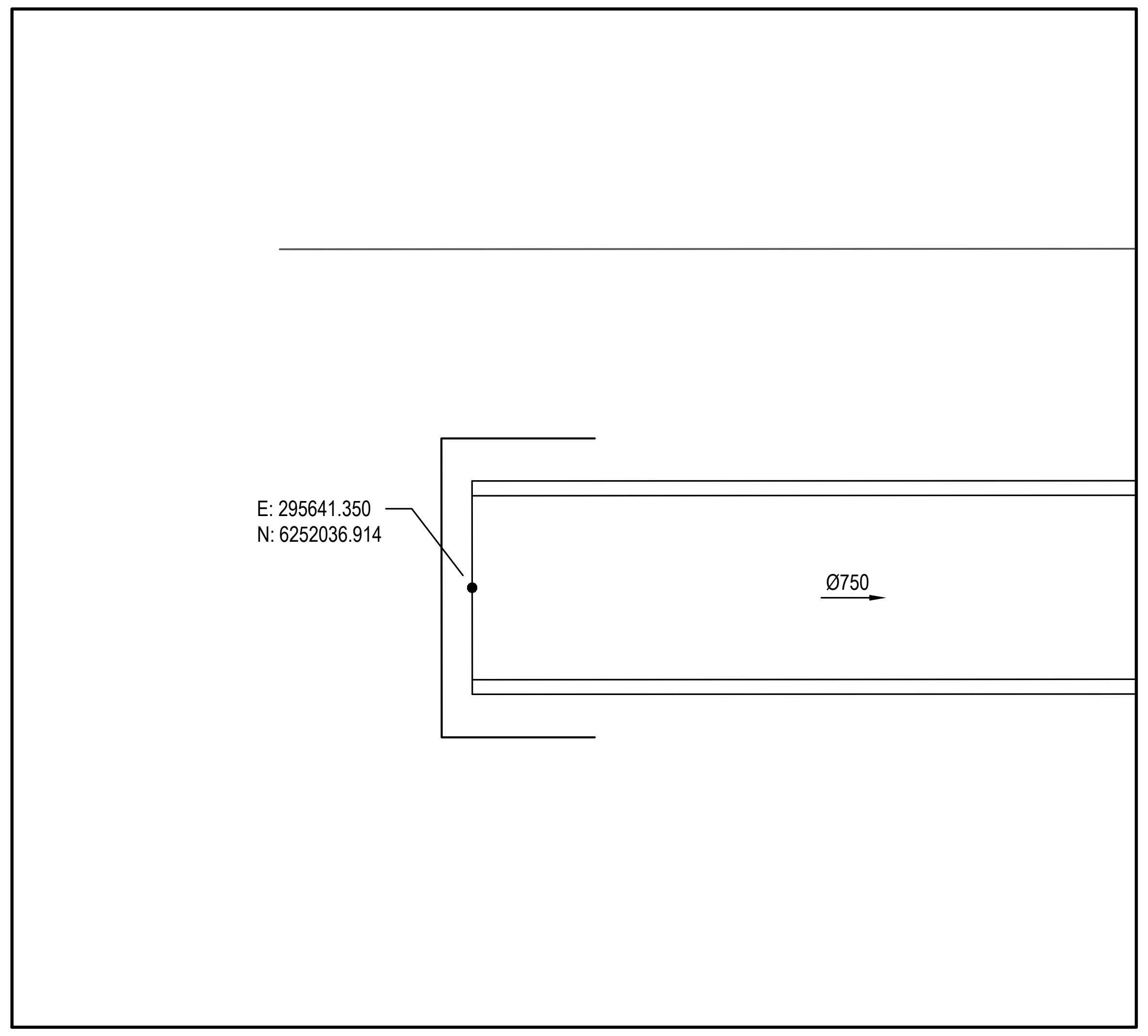
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1453

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1453.dwg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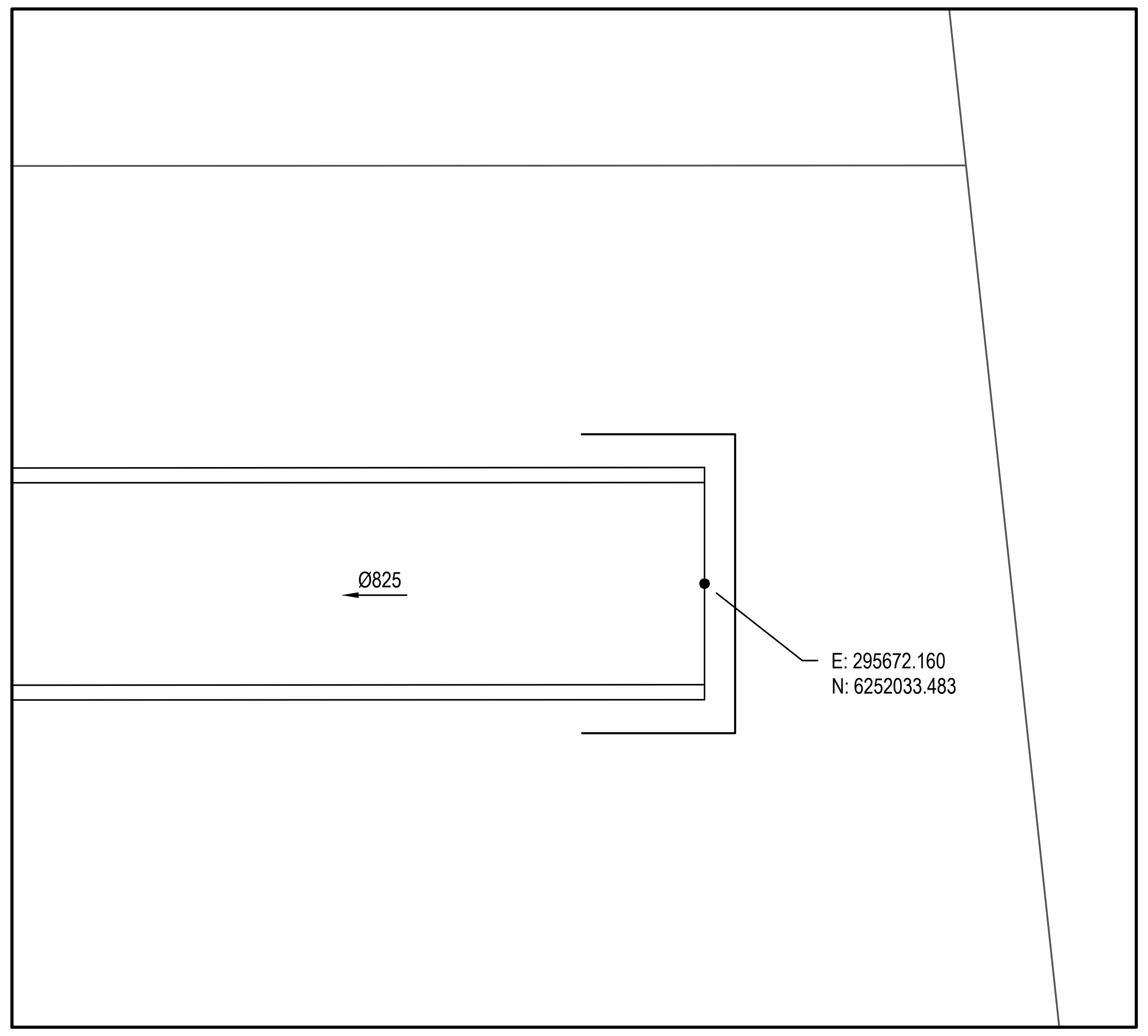
H-1 SETOUT
SCALE 1:25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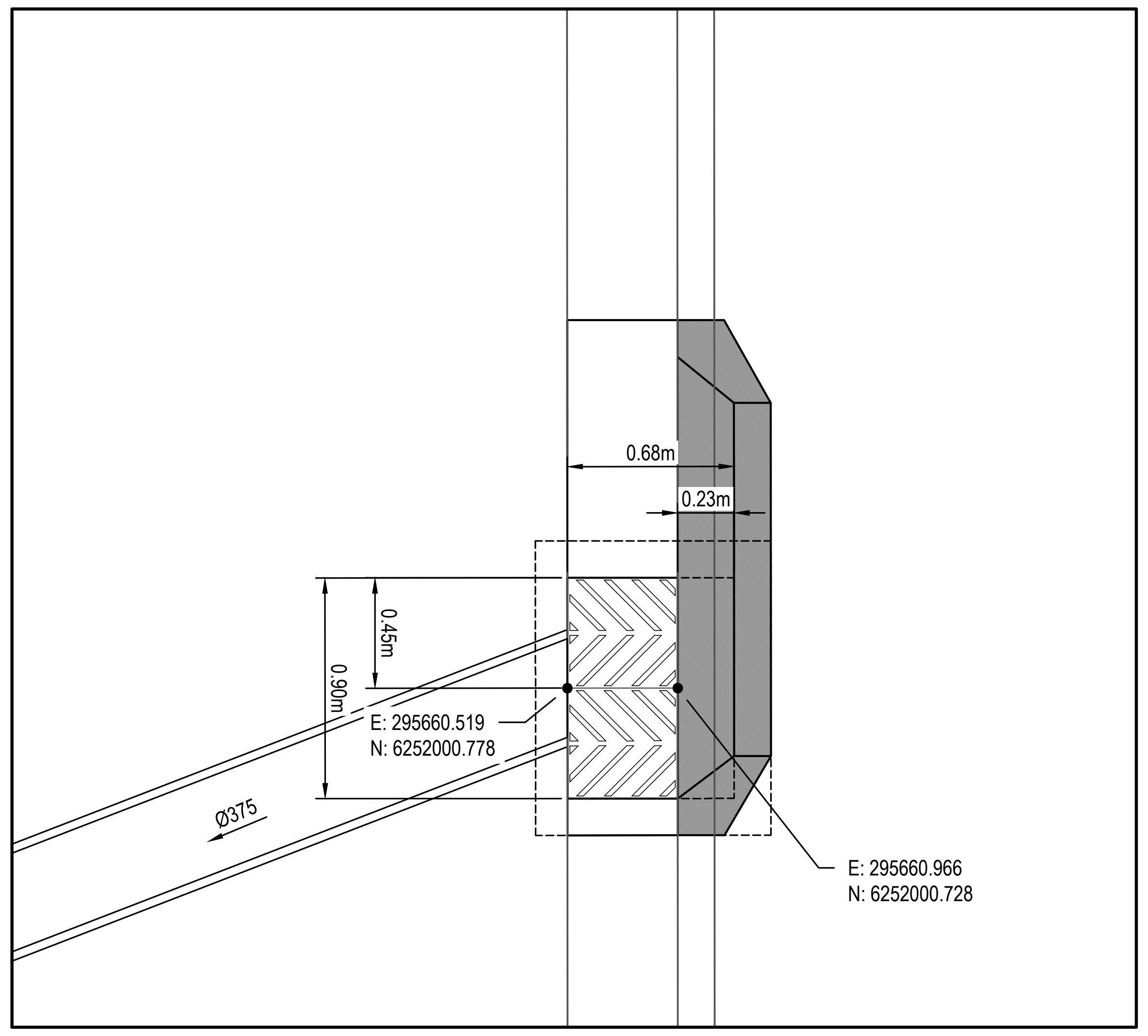
J-1 SETOUT
SCALE 1:25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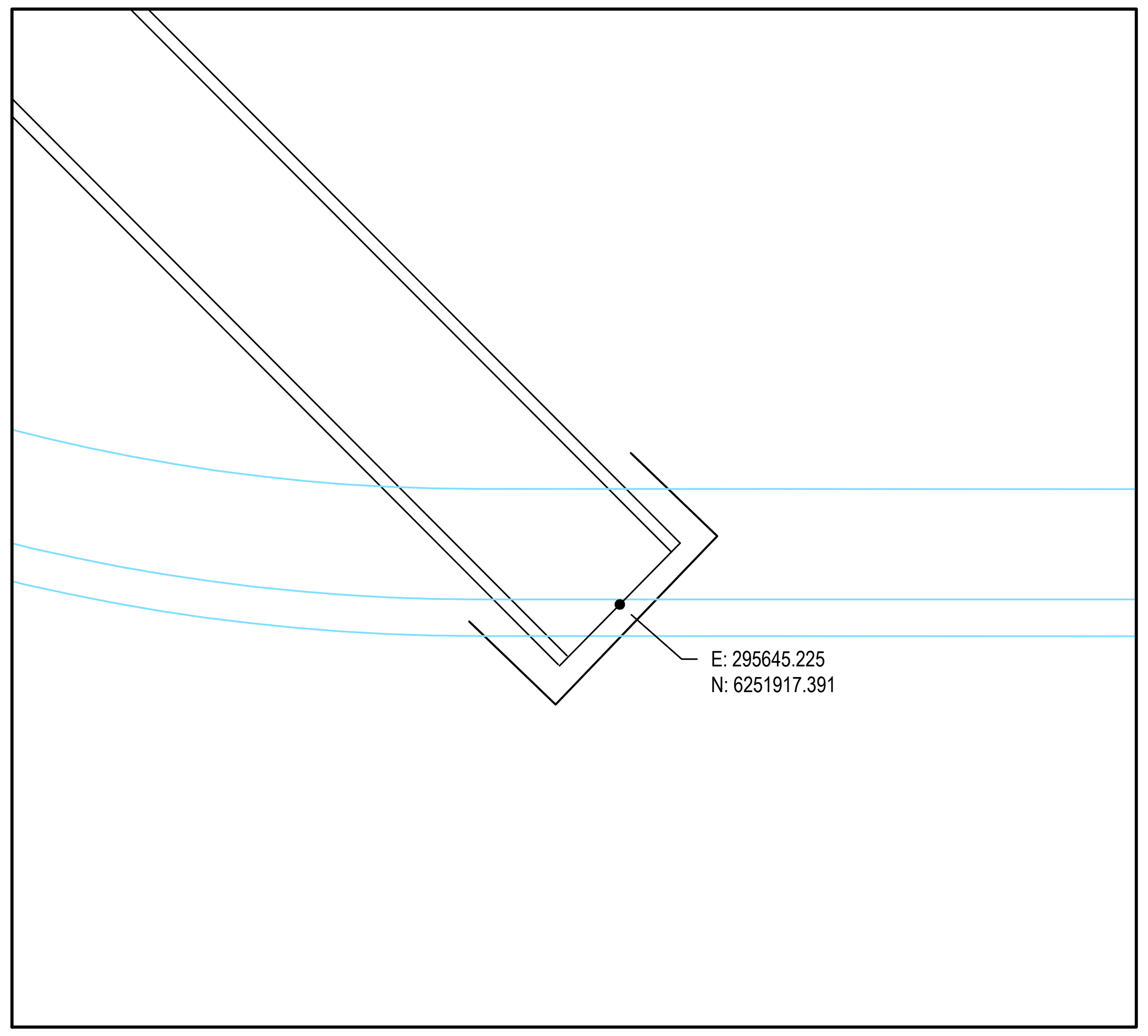
K-1 SETOUT
SCALE 1:25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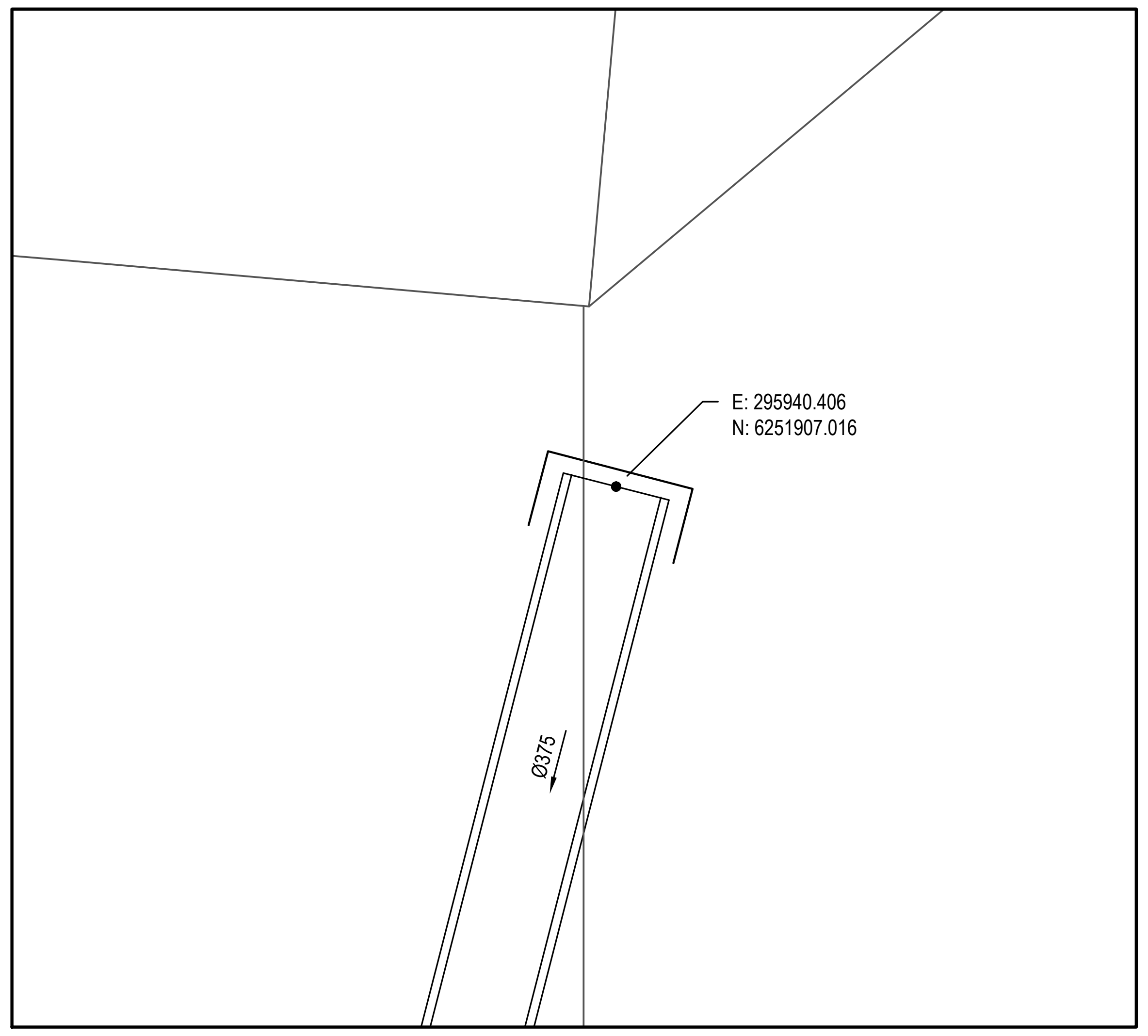
L-1 SETOUT
SCALE 1:25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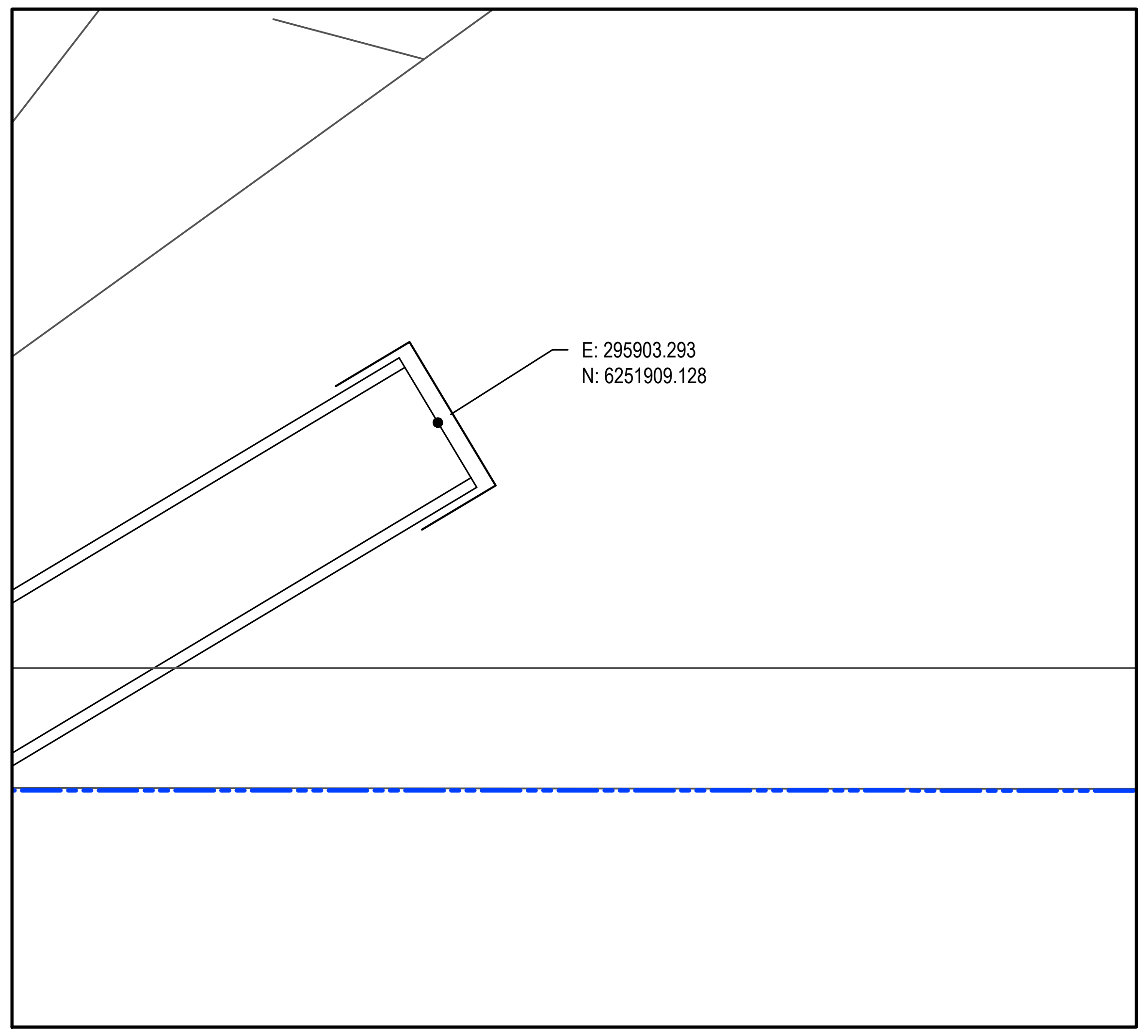
M-1 SETOUT
SCALE 1:25


E: 295903.293
N: 6251909.128

N-1 SETOUT
SCALE 1:25

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 0.5 1 1.5 2 2.5m
1 : 25 @ A1 1 : 50 @ A3

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Client
ICON
OCEANIA

Scales	1:20	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

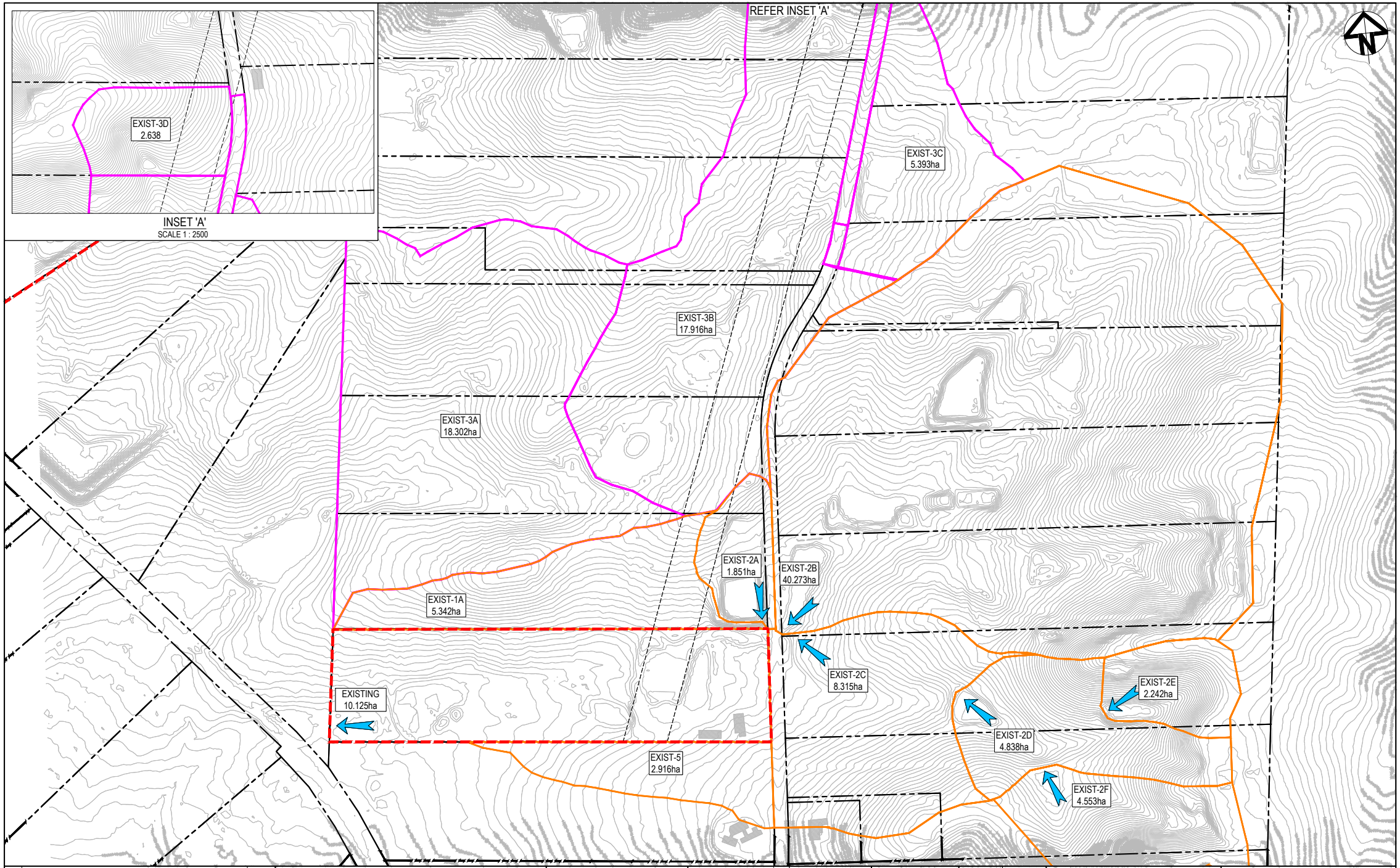
Title
STORMWATER DRAINAGE
SETOUT PLAN
SHEET 5

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1454
Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1454.dwg


REFER INSET 'A'
EXIST-3D
2.638
INSET 'A'
SCALE 1 : 2500
N
EXIST-3C
5.393ha
EXIST-3B
17.916ha
EXIST-3A
18.302ha
EXIST-2A
1.851ha
EXIST-2B
40.273ha
EXIST-1A
5.342ha
EXIST-2C
8.315ha
EXIST-2E
2.242ha
EXISTING
10.125ha
EXIST-2D
4.838ha
EXIST-5
2.916ha
EXIST-2F
4.553ha

A	ISSUED FOR APPROVAL	28-07-25
Issue	Description	Date

100mm on Original

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

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

ICON OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER DRAINAGE
CATCHMENT PLAN
(PRE-DEVELOPED)

Civil Engineers and Project Managers

at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

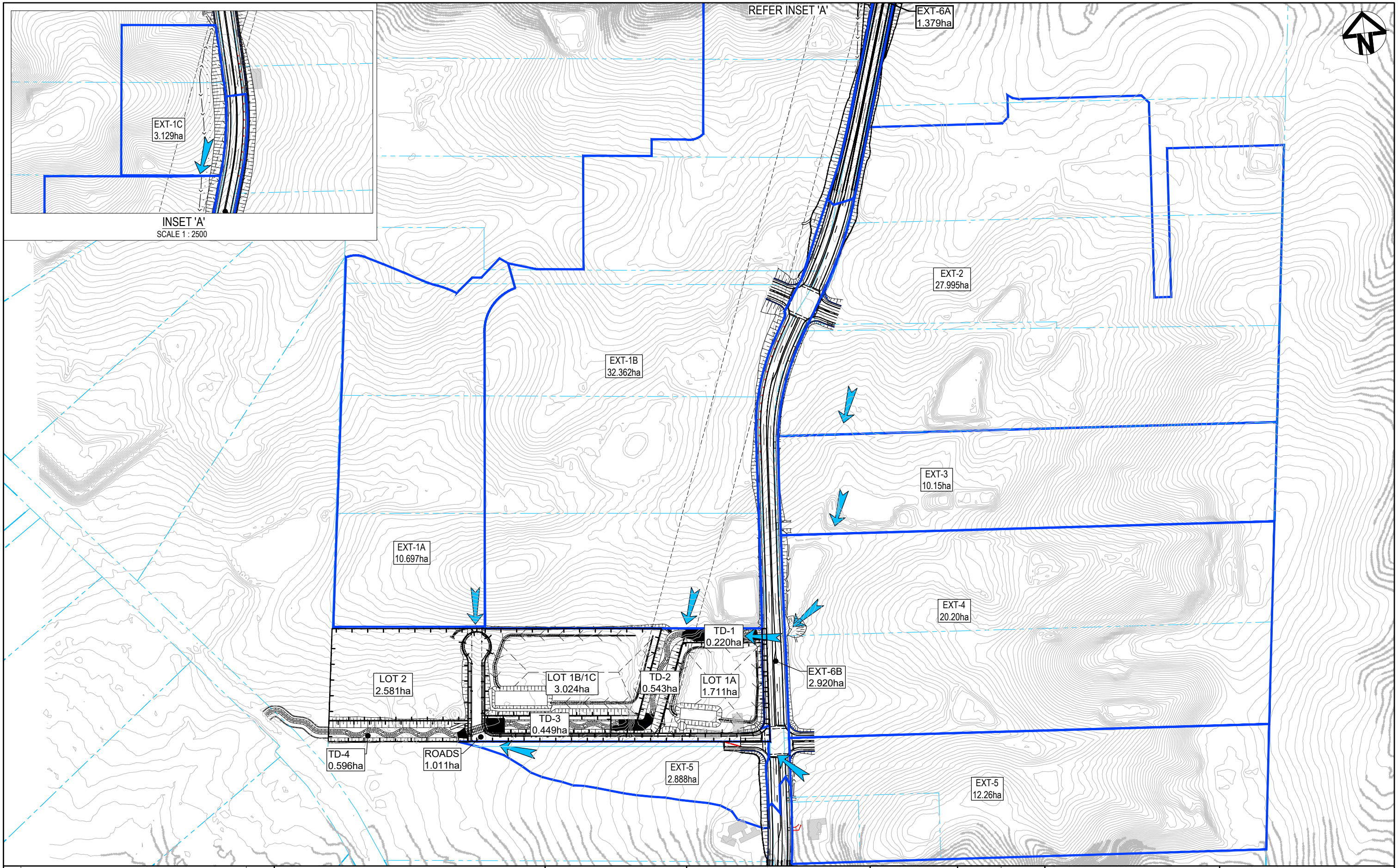
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1470

Issue
A

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1470.dwg


REFER INSET 'A'
EXT-6A
1.379ha
EXT-1C
3.129ha
INSET 'A'
SCALE 1 : 2500
N
EXT-2
27.995ha
EXT-1B
32.362ha
EXT-3
10.15ha
EXT-1A
10.697ha
EXT-4
20.20ha
TD-1
0.220ha
EXT-6B
2.920ha
LOT 2
2.581ha
LOT 1B/1C
3.024ha
TD-2
0.543ha
LOT 1A
1.711ha
TD-3
0.449ha
TD-4
0.596ha
ROADS
1.011ha
EXT-5
2.888ha
EXT-5
12.26ha

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

100mm on Original

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Client

ICON
OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER DRAINAGE
CATCHMENT PLAN
(POST-DEVELOPED)

Civil Engineers and Project Managers

at&l

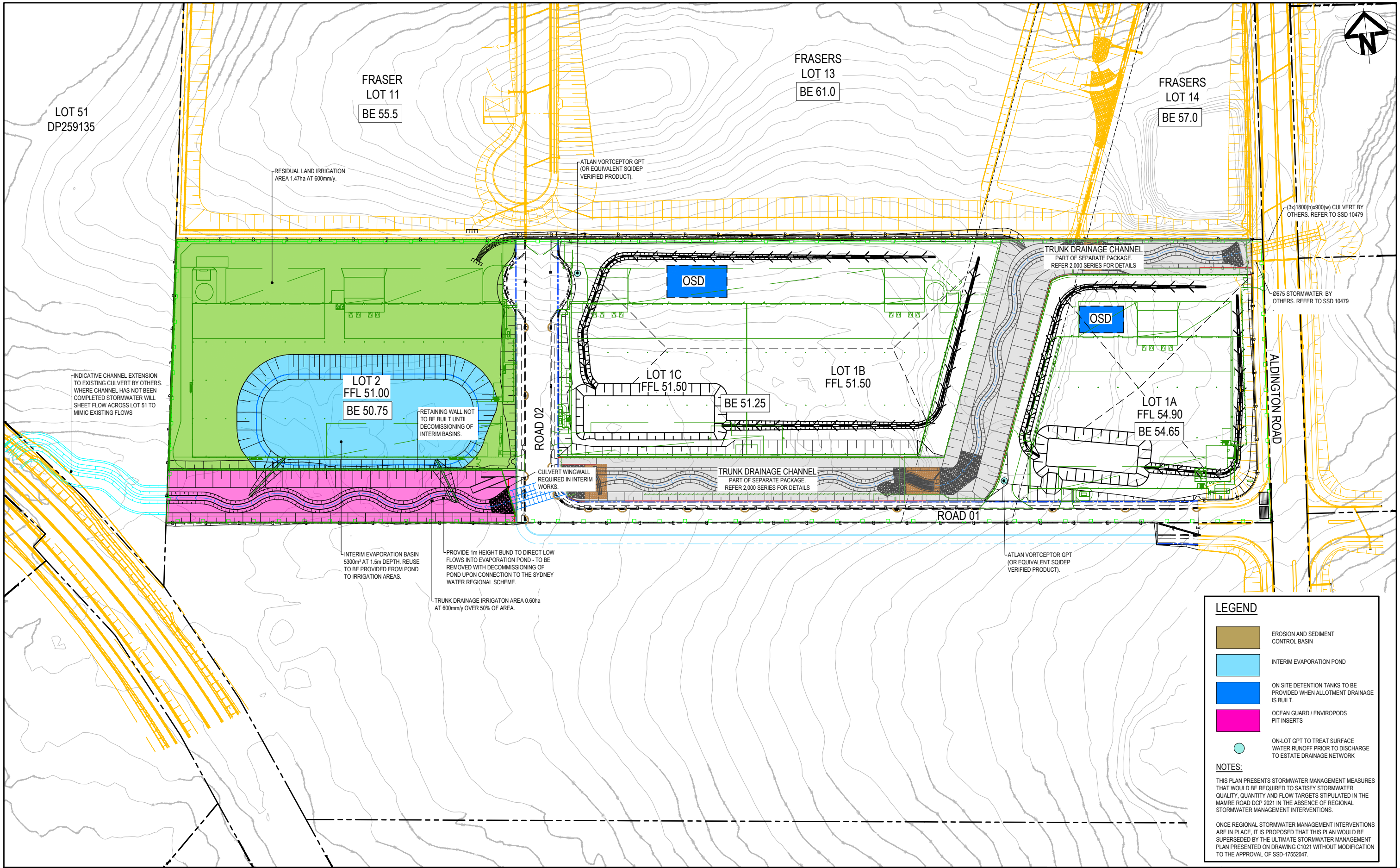
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1471

Issue
A

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1471.dwg


LOT 51
DP259135
FRASER
LOT 11
BE 55.5
FRASERS
LOT 13
BE 61.0
FRASERS
LOT 14
BE 57.0
N
RESIDUAL LAND IRRIGATION AREA 1.47ha AT 600mm/y.
ATLAN VORTCEPTOR GPT (OR EQUIVALENT SQIDEP VERIFIED PRODUCT).
(3x)1800(h)x900(w) CULVERT BY OTHERS. REFER TO SSD 10479
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
Ø675 STORMWATER BY OTHERS. REFER TO SSD 10479
OSD
OSD
LOT 1C
FFL 51.50
LOT 1B
FFL 51.50
BE 51.25
LOT 1A
FFL 54.90
BE 54.65
ALDINGTON ROAD
INDICATIVE CHANNEL EXTENSION TO EXISTING CULVERT BY OTHERS. WHERE CHANNEL HAS NOT BEEN COMPLETED STORMWATER WILL SHEET FLOW ACROSS LOT 51 TO MIMIC EXISTING FLOWS
LOT 2
FFL 51.00
BE 50.75
RETAINING WALL NOT TO BE BUILT UNTIL DECOMMISSIONING OF INTERIM BASINS.
ROAD 02
CULVERT WINGWALL REQUIRED IN INTERIM WORKS.
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
ROAD 01
INTERIM EVAPORATION BASIN 5300m² AT 1.5m DEPTH. REUSE TO BE PROVIDED FROM POND TO IRRIGATION AREAS.
PROVIDE 1m HEIGHT BUND TO DIRECT LOW FLOWS INTO EVAPORATION POND - TO BE REMOVED WITH DECOMMISSIONING OF POND UPON CONNECTION TO THE SYDNEY WATER REGIONAL SCHEME.
TRUNK DRAINAGE IRRIGATON AREA 0.60ha AT 600mm/y OVER 50% OF AREA.
ATLAN VORTCEPTOR GPT (OR EQUIVALENT SQIDEP VERIFIED PRODUCT).

LEGEND

🟫	EROSION AND SEDIMENT CONTROL BASIN
🟦	INTERIM EVAPORATION POND
🟦	ON SITE DETENTION TANKS TO BE PROVIDED WHEN ALLOTMENT DRAINAGE IS BUILT.
🟪	OCEAN GUARD / ENVIROPODS PIT INSERTS
●	ON-LOT GPT TO TREAT SURFACE WATER RUNOFF PRIOR TO DISCHARGE TO ESTATE DRAINAGE NETWORK

NOTES:

THIS PLAN PRESENTS STORMWATER MANAGEMENT MEASURES THAT WOULD BE REQUIRED TO SATISFY STORMWATER QUALITY, QUANTITY AND FLOW TARGETS STIPULATED IN THE MAMRE ROAD DCP 2021 IN THE ABSENCE OF REGIONAL STORMWATER MANAGEMENT INTERVENTIONS.

ONCE REGIONAL STORMWATER MANAGEMENT INTERVENTIONS ARE IN PLACE, IT IS PROPOSED THAT THIS PLAN WOULD BE SUPERSEDED BY THE ULTIMATE STORMWATER MANAGEMENT PLAN PRESENTED ON DRAWING C1021 WITHOUT MODIFICATION TO THE APPROVAL OF SSD-17552047.

Issue	Description	Date
B	ISSUED FOR APPROVAL	02-09-25
A	ISSUED FOR APPROVAL	28-07-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
INTERIM STORMWATER MANAGEMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1480

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1480.dwg

EDGE ESTATE
LOT 11
BE 55.5
EDGE ESTATE
LOT 13
BE 61.0
EDGE ESTATE
LOT 14
BE 57.0
LOT 51
DP259135
LOT 2 INTERIM IRRIGATION AREA
1.8ha @ 600mm/yr
ATLAN VORTCEPTOR GPT
(OR EQUIVALENT SQIDEP
VERIFIED PRODUCT).
(3x)1800(H)x900(W) CULVERT BY
OTHERS. REFER TO SSD 10479
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
Ø675 STORMWATER BY
OTHERS. REFER TO SSD 10479
OSD
OSD
LOT 1C
FFL 51.50
BE 51.25
LOT 1B
FFL 51.50
LOT 1A
FFL 54.90
BE 54.65
ALDINGTON ROAD
ROAD 02
CULVERT WINGWALL
REQUIRED IN INTERIM
WORKS.
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
ROAD 01
INTERIM EVAPORATION POND
MIN. SURFACE AREA = 5300m²
MIN. VOLUME = 7800m³
STORED WATER TO BE IRRIGATED
ON LOT 2 RESIDUAL AREA
PROVIDE 1m HEIGHT BUND TO DIRECT LOW
FLOWS INTO EVAPORATION POND - TO BE
REMOVED WITH DECOMMISSIONING OF
POND UPON CONNECTION TO THE SYDNEY
WATER REGIONAL SCHEME.
ATLAN VORTCEPTOR GPT
(OR EQUIVALENT SQIDEP
VERIFIED PRODUCT).
N

LEGEND

●	ON-LOT GPT (SUBJECT TO DETAILED DESIGN AS PART OF ON-LOT BUILDING WORKS CONSTRUCTION CERTIFICATE)
🟦	ON SITE DETENTION TANKS (SUBJECT TO DETAILED DESIGN AS PART OF ON-LOT BUILDING WORKS CC)
🟦	INTERIM EVAPORATION POND
🟩	INTERIM IRRIGATION AREA

NOTES:

THIS PLAN PRESENTS STORMWATER MANAGEMENT MEASURES THAT WOULD BE REQUIRED TO SATISFY STORMWATER QUALITY, QUANTITY AND FLOW TARGETS STIPULATED IN THE MAMRE ROAD DCP 2021 IN THE ABSENCE OF REGIONAL STORMWATER MANAGEMENT INTERVENTIONS.

Issue	Description	Date
C	ISSUED FOR APPROVAL	23-09-25
B	ISSUED FOR APPROVAL	02-09-25
A	ISSUED FOR APPROVAL	28-07-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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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

ICON
OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

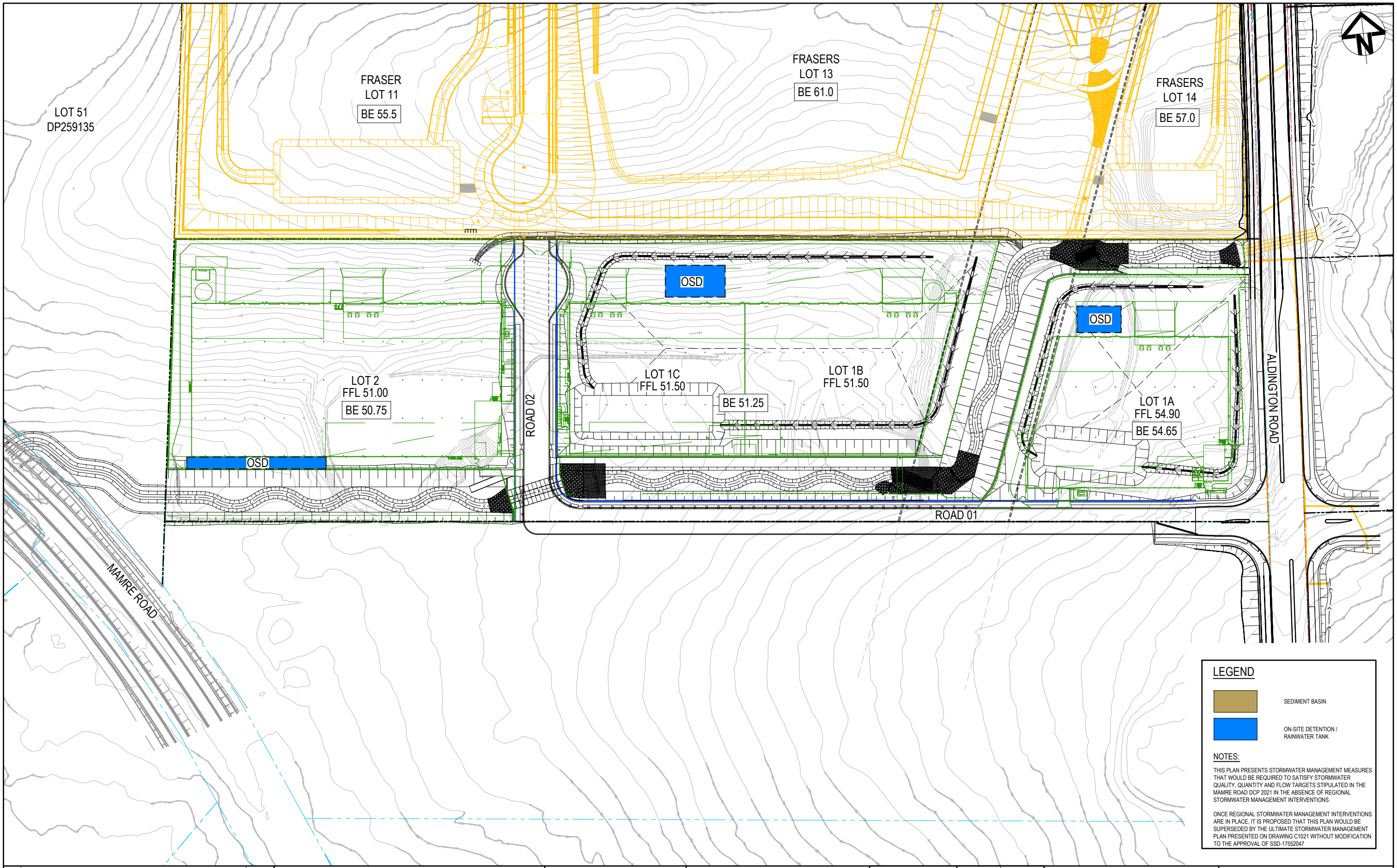
Title
INTERIM
STORMWATER MANAGEMENT
PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1480

Issue
C


LOT 51
DP259135
FRASER
LOT 11
BE 55.5
FRASERS
LOT 13
BE 61.0
FRASERS
LOT 14
BE 57.0
N
OSD
OSD
OSD
LOT 2
FFL 51.00
BE 50.75
ROAD 02
LOT 1C
FFL 51.50
BE 51.25
LOT 1B
FFL 51.50
LOT 1A
FFL 54.90
BE 54.65
ALDINGTON ROAD
ROAD 01
MAMRE ROAD

LEGEND

▨	SEDIMENT BASIN
🟦	ON-SITE DETENTION / RAINWATER TANK

NOTES:

THIS PLAN PRESENTS STORMWATER MANAGEMENT MEASURES THAT WOULD BE REQUIRED TO SATISFY STORMWATER QUALITY, QUANTITY AND FLOW TARGETS STIPULATED IN THE MAMRE ROAD DCP 2021 IN THE ABSENCE OF REGIONAL STORMWATER MANAGEMENT INTERVENTIONS.

ONCE REGIONAL STORMWATER MANAGEMENT INTERVENTIONS ARE IN PLACE, IT IS PROPOSED THAT THIS PLAN WOULD BE SUPERSEDED BY THE ULTIMATE STORMWATER MANAGEMENT PLAN PRESENTED ON DRAWING C1021 WITHOUT MODIFICATION TO THE APPROVAL OF SSD-17552047

Issue	Description	Date
B	ISSUED FOR APPROVAL	02-09-25
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ULTIMATE STORMWATER MANAGEMENT PLAN

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1481

Issue
B

100mm on Original

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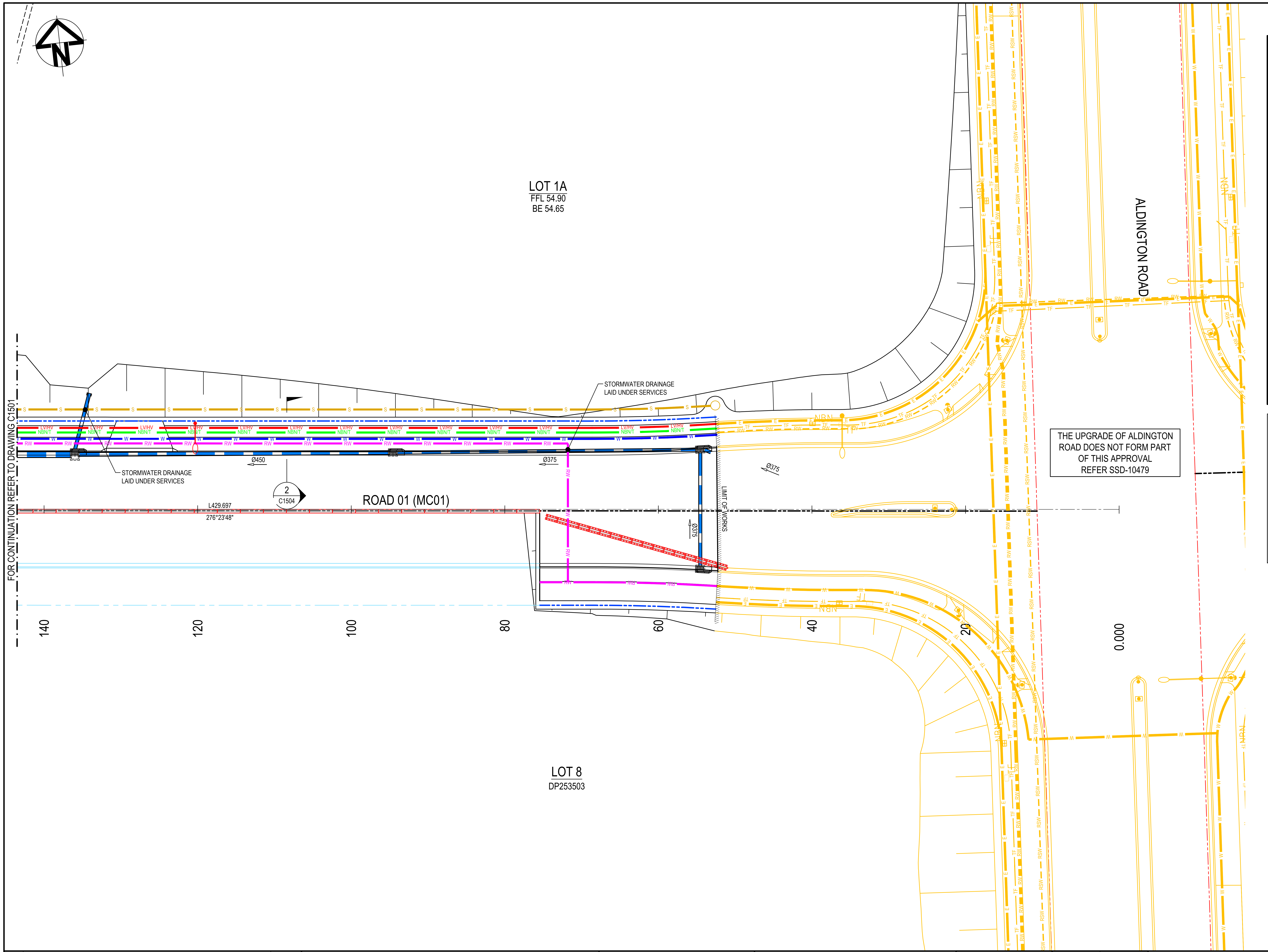
LOT 1A
FFL 54.90
BE 54.65
ALDINGTON ROAD
STORMWATER DRAINAGE
LAID UNDER SERVICES
STORMWATER DRAINAGE
LAID UNDER SERVICES
Ø450
Ø375
Ø375
Ø375
2
C1504
ROAD 01 (MC01)
L429.697
276°23'48"
LIMIT OF WORKS
FOR CONTINUATION REFER TO DRAWING C1501
140
120
100
80
60
40
20
0.000
LOT 8
DP253503

THE UPGRADE OF ALDINGTON ROAD DOES NOT FORM PART OF THIS APPROVAL REFER SSD-10479

LEGEND

PROPOSED

LV/HV	PROPOSED HIGH VOLTAGE AND LOW VOLTAGE ELECTRICITY
	PROPOSED LIGHT POLE
NBN/T	PROPOSED NBN AND TELSTRA CONDUITS
T	PROPOSED NBN AND TELSTRA PIT
W	PROPOSED WATERMAIN
RW	PROPOSED RECYCLED WATERMAIN
× ×	PROPOSED STOP VALVES
⊗ ⊗	PROPOSED CLOSED STOP VALVES
● ●	PROPOSED HYDRANTS
● ●	PROPOSED HYDRANTS
S	PROPOSED SEWER
○	PROPOSED SEWER MANHOLE
Ø450	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	PROPOSED STORMWATER PITS

EXISTING

∨ ∧	EXISTING OVERHEAD ELECTRICITY
pw	EXISTING WATERMAIN
s	EXISTING SEWER

FUTURE

rw	FUTURE RECYCLED WATERMAIN

NOTE:
1. THESE DRAWINGS ARE FOR COORDINATION PURPOSED ONLY. REFER AUTHORITY APPROVED PLANS FOR CONSTRUCTION DESIGN/ISSUE.
3. VERTICAL CLEARANCES TO BE IN ACCORDANCE NSW STREET OPENING COORDINATION COUNCIL GUIDES 2018. REFER TO APPROVED AUTHORITY DRAWINGS FOR ALL SERVICES TRENCH CONFIGURATION WHEREVER PROPOSED SERVICES CROSS STORMWATER INFRASTRUCTURE.
2. ALL EXISTING SERVICES TO BE RETAINED, FIXTURES AND FITTINGS TO BE ADJUSTED TO SUIT NEW PROPOSED LEVELS WHERE REQUIRED.
3. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

BEFORE YOU DIG
www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client

ICON
OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
UTILITIES COORDINATION
PLAN
SHEET 1

Civil Engineers and Project Managers

at&l

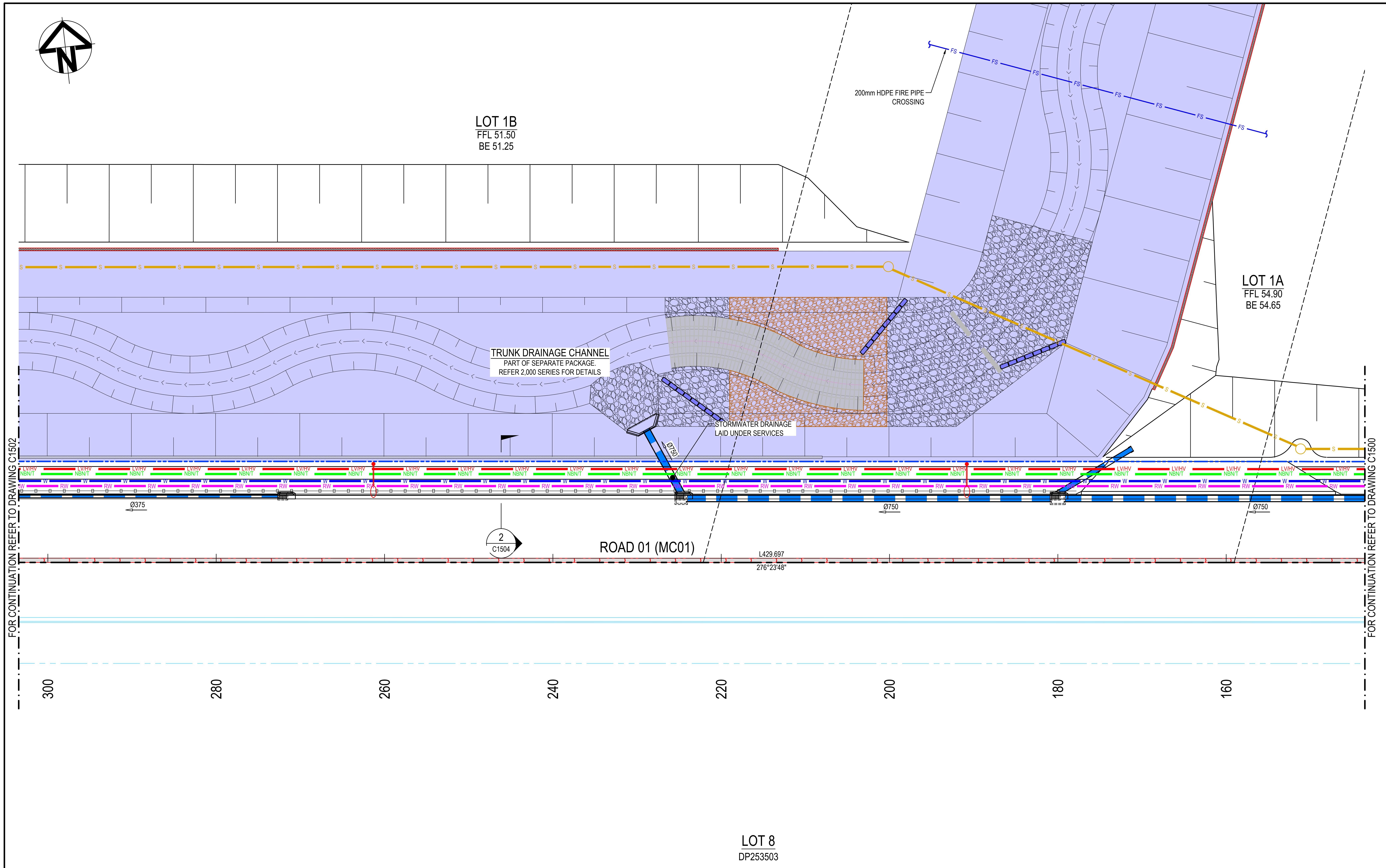
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1500

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1500.dwg


LOT 1B
FFL 51.50
BE 51.25
200mm HDPE FIRE PIPE CROSSING
FS
LOT 1A
FFL 54.90
BE 54.65
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
STORMWATER DRAINAGE LAID UNDER SERVICES
Ø750
Ø375
Ø750
Ø750
LV/HV
NBN/T
W
RW
S
2
C1504
ROAD 01 (MC01)
L429.697
276°23'48"
FOR CONTINUATION REFER TO DRAWING C1502
FOR CONTINUATION REFER TO DRAWING C1500
300
280
260
240
220
200
180
160
LOT 8
DP253503

LEGEND

PROPOSED

LV/HV	PROPOSED HIGH VOLTAGE AND LOW VOLTAGE ELECTRICITY
	PROPOSED LIGHT POLE
NBN/T	PROPOSED NBN AND TELSTRA CONDUITS
⊞ T	PROPOSED NBN AND TELSTRA PIT
W	PROPOSED WATERMAIN
RW	PROPOSED RECYCLED WATERMAIN
× ×	PROPOSED STOP VALVES
⊗ ⊗	PROPOSED CLOSED STOP VALVES
● ●	PROPOSED HYDRANTS
● ●	PROPOSED HYDRANTS
S	PROPOSED SEWER
○	PROPOSED SEWER MANHOLE
Ø450	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	PROPOSED STORMWATER PITS

EXISTING

	EXISTING OVERHEAD ELECTRICITY
pw	EXISTING WATERMAIN
s	EXISTING SEWER

FUTURE

rw	FUTURE RECYCLED WATERMAIN

NOTE:

1. THESE DRAWINGS ARE FOR COORDINATION PURPOSED ONLY. REFER AUTHORITY APPROVED PLANS FOR CONSTRUCTION DESIGN/ISSUE.
3. VERTICAL CLEARANCES TO BE IN ACCORDANCE NSW STREET OPENING COORDINATION COUNCIL GUIDES 2018. REFER TO APPROVED AUTHORITY DRAWINGS FOR ALL SERVICES TRENCH CONFIGURATION WHEREVER PROPOSED SERVICES CROSS STORMWATER INFRASTRUCTURE.
2. ALL EXISTING SERVICES TO BE RETAINED, FIXTURES AND FITTINGS TO BE ADJUSTED TO SUIT NEW PROPOSED LEVELS WHERE REQUIRED.
3. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

BEFORE YOU DIG
www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client
ICON
OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

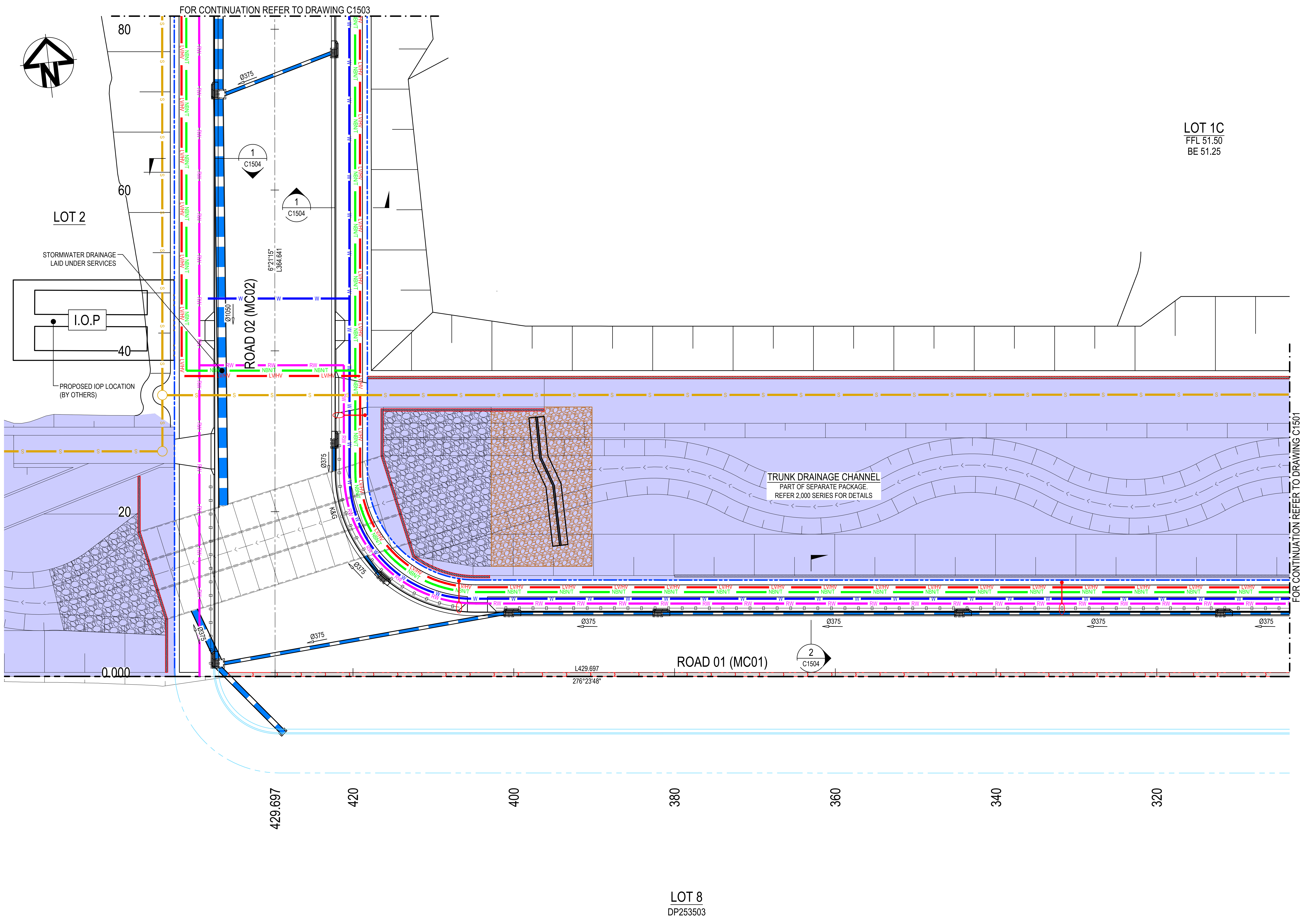
Title
UTILITIES COORDINATION
PLAN
SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1501
Issue
B

FOR CONTINUATION REFER TO DRAWING C1503


80
60
40
20
0.000
LOT 2
STORMWATER DRAINAGE LAID UNDER SERVICES
I.O.P
PROPOSED IOP LOCATION (BY OTHERS)
1 C1504
Ø375
Ø1050
ROAD 02 (MC02)
6°21'15"
L364.641
LV/HV
NBN/T
RW
W
S
K&G
LOT 1C
FFL 51.50
BE 51.25
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
2 C1504
ROAD 01 (MC01)
L429.697
276°23'48"
429.697
420
400
380
360
340
320
LOT 8
DP253503

FOR CONTINUATION REFER TO DRAWING C1501

LEGEND

PROPOSED

— LV/HV — LV/HV —	PROPOSED HIGH VOLTAGE AND LOW VOLTAGE ELECTRICITY
⬭—●	PROPOSED LIGHT POLE
— NBN/T — NBN/T —	PROPOSED NBN AND TELSTRA CONDUITS
⊞	PROPOSED NBN AND TELSTRA PIT
— W — W —	PROPOSED WATERMAIN
— RW — RW —	PROPOSED RECYCLED WATERMAIN
× ×	PROPOSED STOP VALVES
⊗ ⊗	PROPOSED CLOSED STOP VALVES
● ●	PROPOSED HYDRANTS
● ●	PROPOSED HYDRANTS
— S — S —	PROPOSED SEWER
○	PROPOSED SEWER MANHOLE
Ø450	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
▣	PROPOSED STORMWATER PITS

EXISTING

— ˅ — ˄ — ˅ — ˄ —	EXISTING OVERHEAD ELECTRICITY
— pw — pw — pw —	EXISTING WATERMAIN
— s — s — s — s —	EXISTING SEWER

FUTURE

— rw — rw — rw —	FUTURE RECYCLED WATERMAIN

NOTE:
1. THESE DRAWINGS ARE FOR COORDINATION PURPOSED ONLY. REFER AUTHORITY APPROVED PLANS FOR CONSTRUCTION DESIGN/ISSUE.
3. VERTICAL CLEARANCES TO BE IN ACCORDANCE NSW STREET OPENING COORDINATION COUNCIL GUIDES 2018. REFER TO APPROVED AUTHORITY DRAWINGS FOR ALL SERVICES TRENCH CONFIGURATION WHEREVER PROPOSED SERVICES CROSS STORMWATER INFRASTRUCTURE.
2. ALL EXISTING SERVICES TO BE RETAINED, FIXTURES AND FITTINGS TO BE ADJUSTED TO SUIT NEW PROPOSED LEVELS WHERE REQUIRED.
3. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

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CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client
ICON
OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

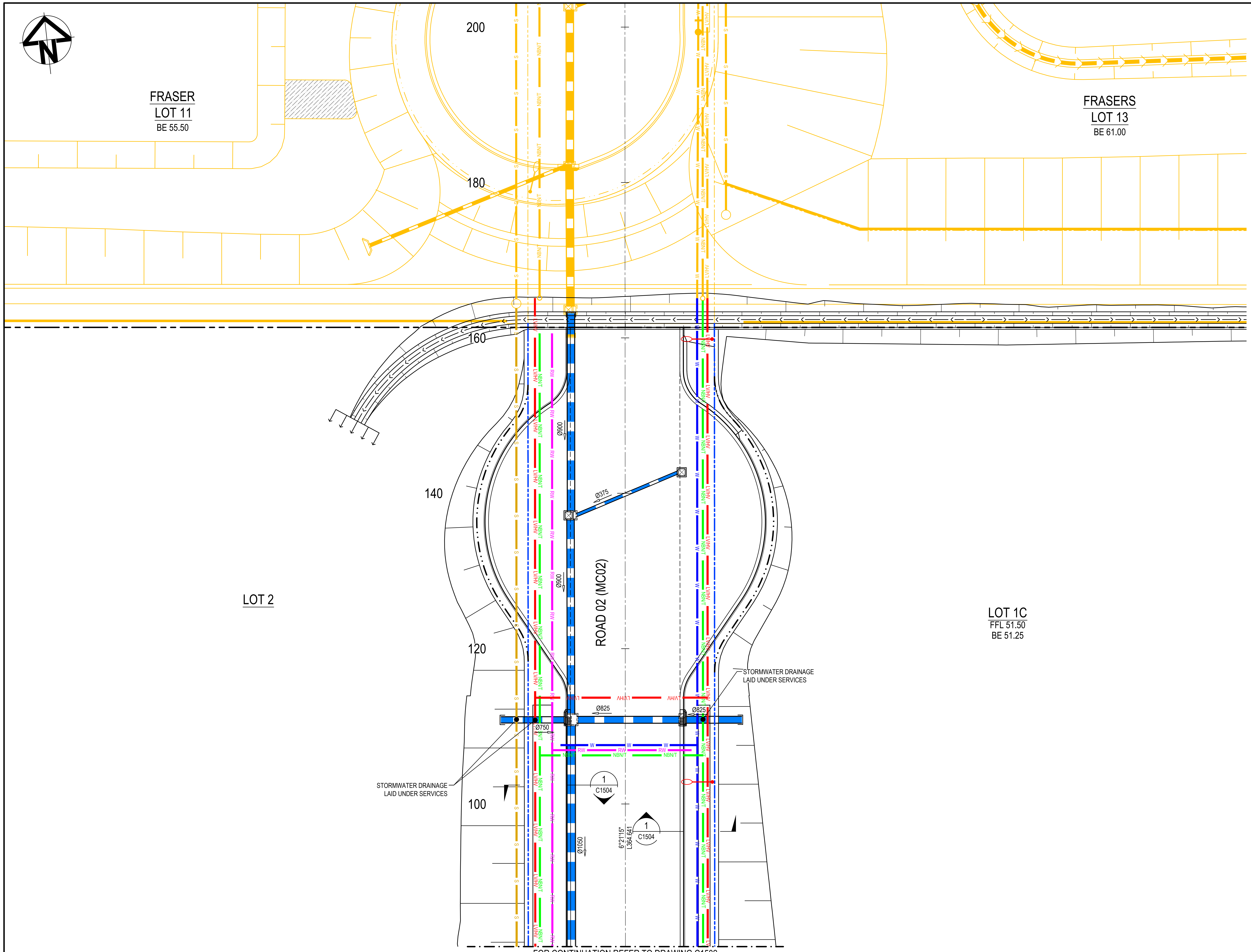
Title
UTILITIES COORDINATION
PLAN
SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1502
Issue
B

100mm on Original


N
200
180
160
140
120
100
FRASER
LOT 11
BE 55.50
FRASERS
LOT 13
BE 61.00
LOT 2
LOT 1C
FFL 51.50
BE 51.25
ROAD 02 (MC02)
Ø900
Ø900
Ø375
Ø825
Ø825
Ø750
Ø1050
6°21'15"
L364.641
1
C1504
1
C1504
STORMWATER DRAINAGE
LAID UNDER SERVICES
STORMWATER DRAINAGE
LAID UNDER SERVICES
LV/HV
NBN/T
RW
W
S

FOR CONTINUATION REFER TO DRAWING C1502

LEGEND

PROPOSED

🟥 LV/HV 🟥 LV/HV 🟥	PROPOSED HIGH VOLTAGE AND LOW VOLTAGE ELECTRICITY
○—●	PROPOSED LIGHT POLE
🟩 NBN/T 🟩 NBN/T 🟩	PROPOSED NBN AND TELSTRA CONDUITS
⊞T	PROPOSED NBN AND TELSTRA PIT
🟦 W 🟦 W 🟦	PROPOSED WATERMAIN
RW RW	PROPOSED RECYCLED WATERMAIN
× ×	PROPOSED STOP VALVES
⊗ ⊗	PROPOSED CLOSED STOP VALVES
● ●	PROPOSED HYDRANTS
● ●	PROPOSED HYDRANTS
S S	PROPOSED SEWER
○	PROPOSED SEWER MANHOLE
Ø450	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
▤	PROPOSED STORMWATER PITS

EXISTING

v ^ v ^	EXISTING OVERHEAD ELECTRICITY
— — pw — — pw — — pw —	EXISTING WATERMAIN
— — s — — s — — s — — s —	EXISTING SEWER

FUTURE

— — rw — — rw — — rw —	FUTURE RECYCLED WATERMAIN

NOTE:
1. THESE DRAWINGS ARE FOR COORDINATION PURPOSED ONLY. REFER AUTHORITY APPROVED PLANS FOR CONSTRUCTION DESIGN/ISSUE.
3. VERTICAL CLEARANCES TO BE IN ACCORDANCE NSW STREET OPENING COORDINATION COUNCIL GUIDES 2018. REFER TO APPROVED AUTHORITY DRAWINGS FOR ALL SERVICES TRENCH CONFIGURATION WHEREVER PROPOSED SERVICES CROSS STORMWATER INFRASTRUCTURE.
2. ALL EXISTING SERVICES TO BE RETAINED, FIXTURES AND FITTINGS TO BE ADJUSTED TO SUIT NEW PROPOSED LEVELS WHERE REQUIRED.
3. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

BEFORE YOU DIG
www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client
ICON
OCEANIA

Scales	1:250	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

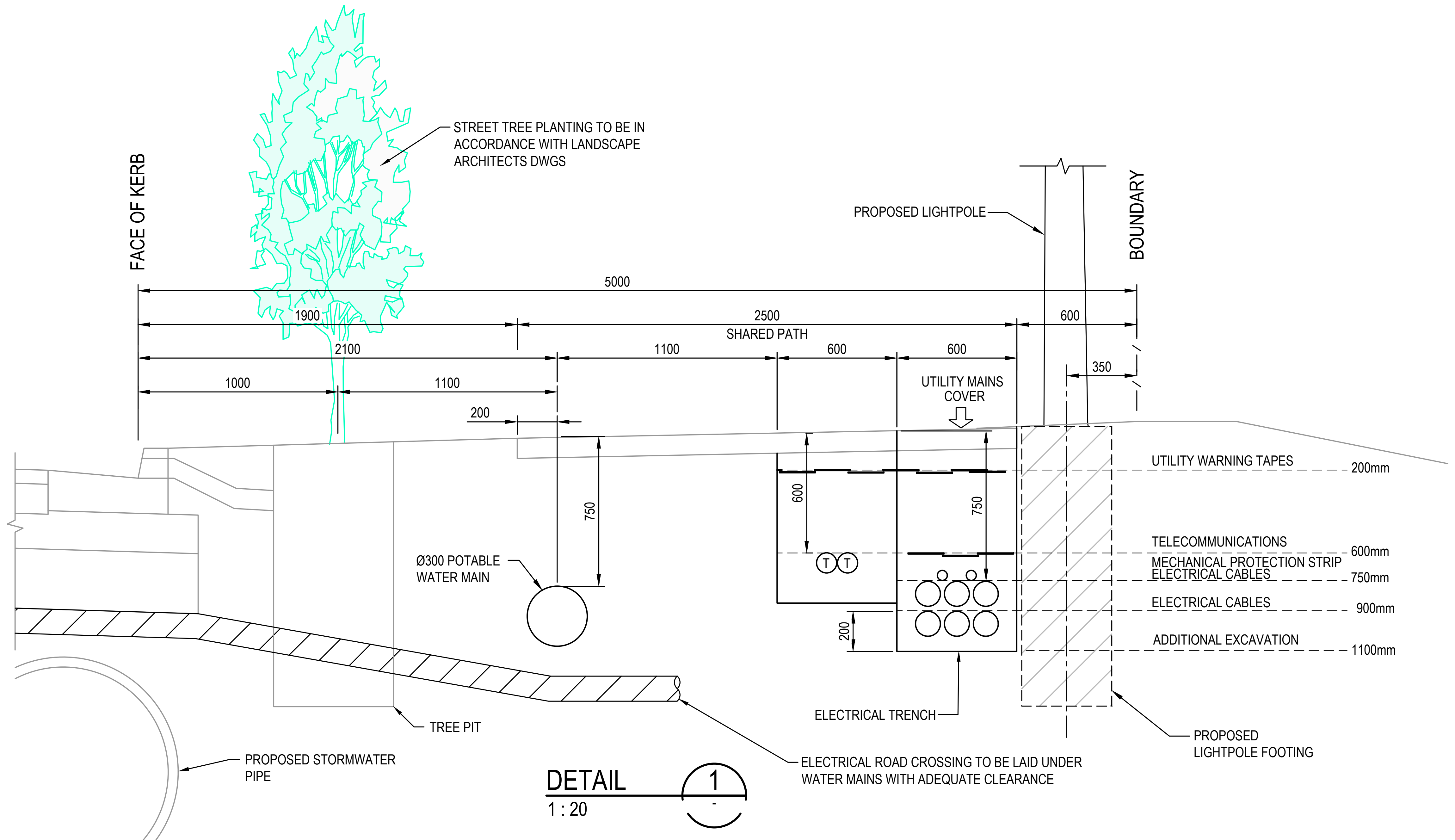
Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
UTILITIES COORDINATION
PLAN
SHEET 4

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

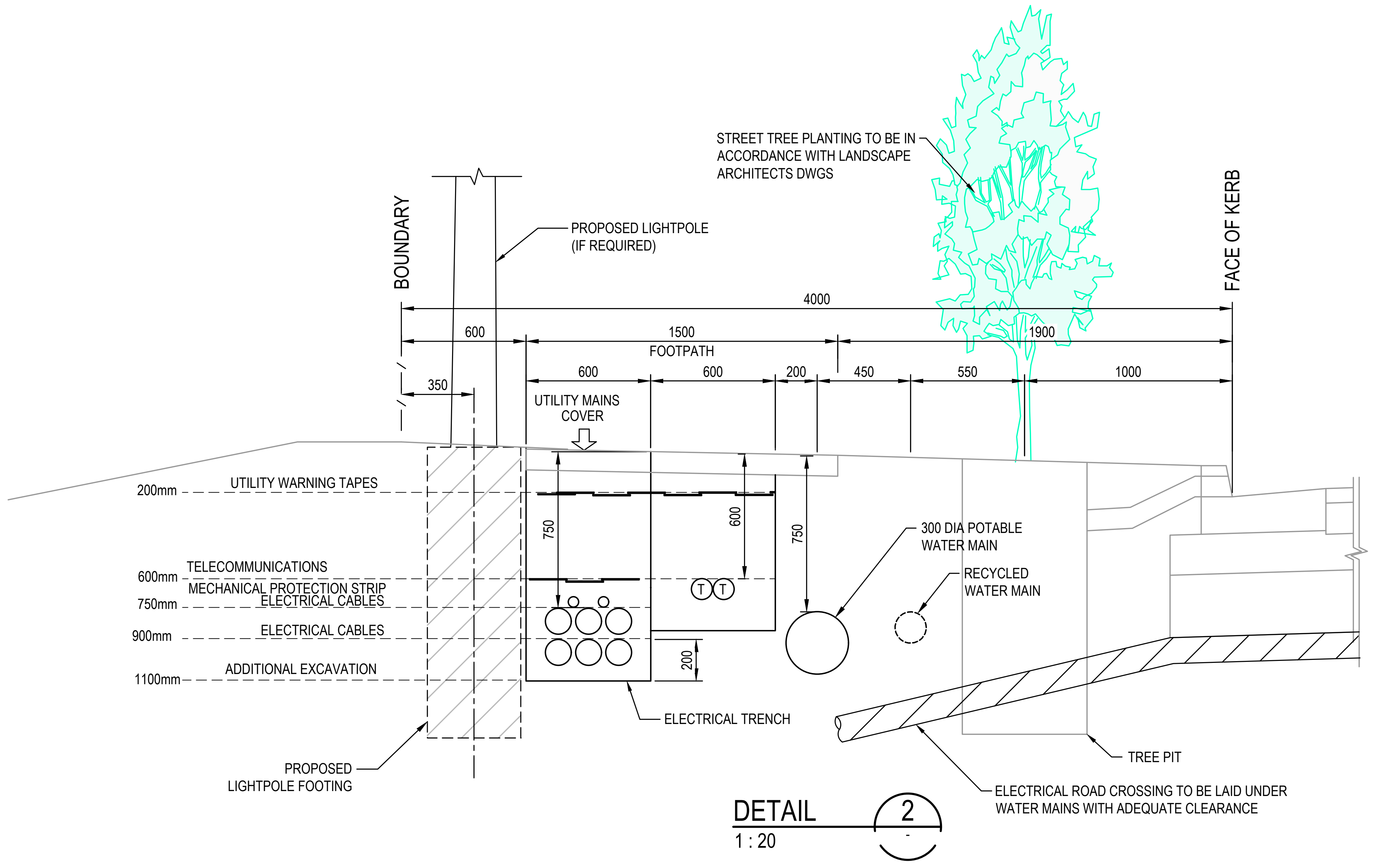
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1503
Issue
B


STREET TREE PLANTING TO BE IN ACCORDANCE WITH LANDSCAPE ARCHITECTS DWGS
FACE OF KERB
PROPOSED LIGHTPOLE
BOUNDARY
5000
1900
2500
SHARED PATH
600
2100
1100
600
600
350
1000
1100
UTILITY MAINS COVER
200
750
600
750
Ø300 POTABLE WATER MAIN
UTILITY WARNING TAPES
200mm
TELECOMMUNICATIONS
600mm
MECHANICAL PROTECTION STRIP
ELECTRICAL CABLES
750mm
ELECTRICAL CABLES
900mm
ADDITIONAL EXCAVATION
1100mm
200
ELECTRICAL TRENCH
TREE PIT
PROPOSED LIGHTPOLE FOOTING
PROPOSED STORMWATER PIPE
ELECTRICAL ROAD CROSSING TO BE LAID UNDER WATER MAINS WITH ADEQUATE CLEARANCE
DETAIL 1
1 : 20
-

TYPICAL 5.0m VERGE TRENCH DETAIL

SCALE 1:20


BOUNDARY
PROPOSED LIGHTPOLE (IF REQUIRED)
STREET TREE PLANTING TO BE IN ACCORDANCE WITH LANDSCAPE ARCHITECTS DWGS
FACE OF KERB
4000
600
1500
FOOTPATH
1900
350
600
600
200
450
550
1000
UTILITY MAINS COVER
200mm
UTILITY WARNING TAPES
750
600
750
300 DIA POTABLE WATER MAIN
RECYCLED WATER MAIN
600mm
TELECOMMUNICATIONS
MECHANICAL PROTECTION STRIP
750mm
ELECTRICAL CABLES
900mm
ELECTRICAL CABLES
1100mm
ADDITIONAL EXCAVATION
200
ELECTRICAL TRENCH
TREE PIT
PROPOSED LIGHTPOLE FOOTING
ELECTRICAL ROAD CROSSING TO BE LAID UNDER WATER MAINS WITH ADEQUATE CLEARANCE
DETAIL 2
1 : 20
-

TYPICAL 4.0m VERGE TRENCH DETAIL

SCALE 1:20

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

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ANY FORM OR USED FOR ANY
OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
WITHOUT THE WRITTEN
PERMISSION OF AT&L

Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
UTILITIES COORDINATION
DETAILED SECTIONS

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
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ABN 96 130 882 405
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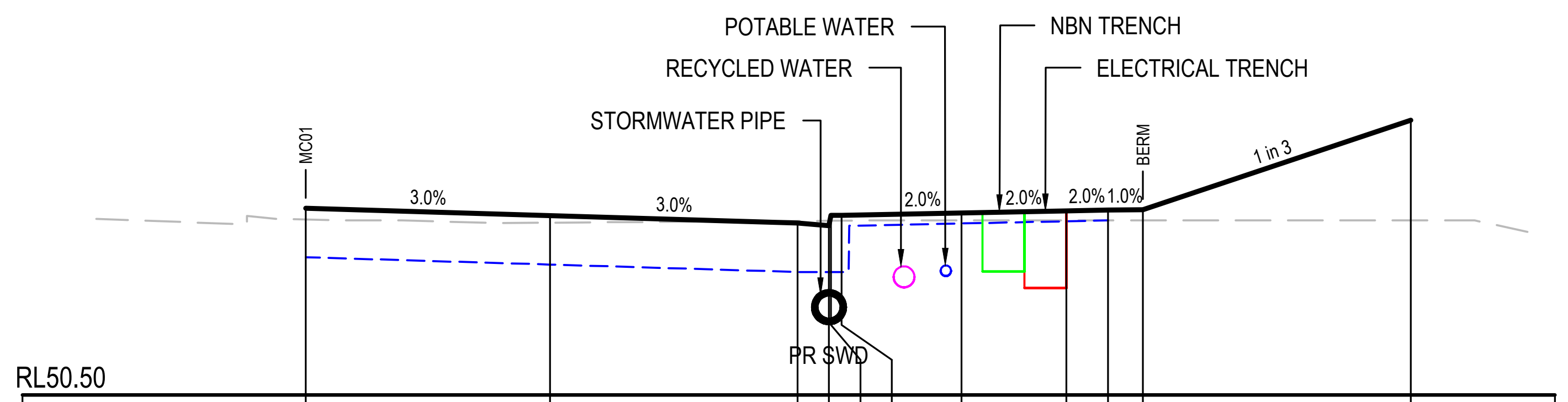
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1504

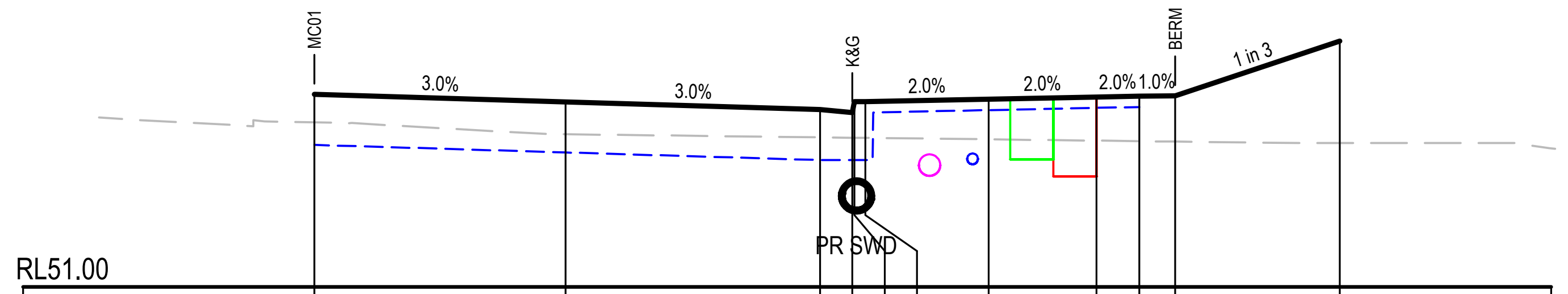
Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1504.dwg


POTABLE WATER
RECYCLED WATER
STORMWATER PIPE
NBN TRENCH
ELECTRICAL TRENCH
MC01
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
PR SWD
RL50.50

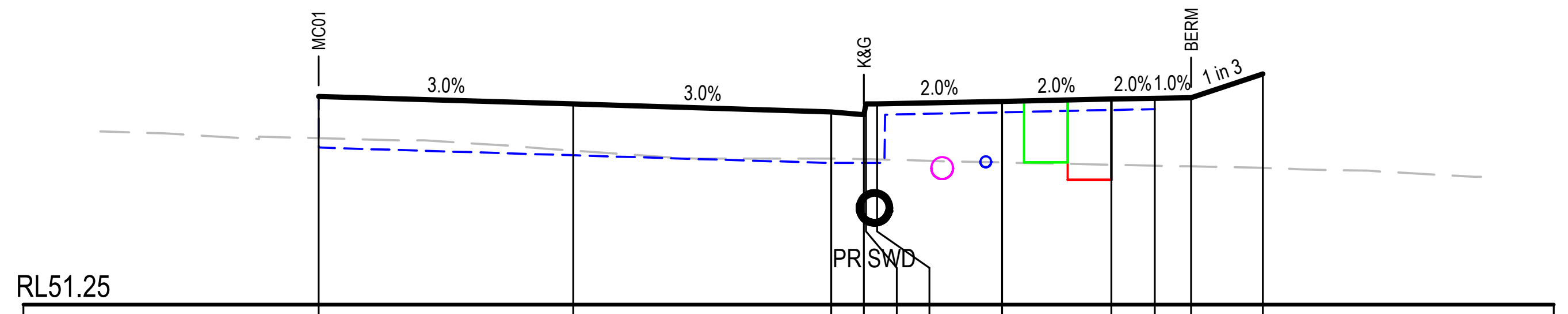
53.174	53.069	52.962	52.922	53.072	53.072	53.106	53.136	53.148	53.153	54.433
53.012	52.967	52.992	52.995	52.995	52.996	53.000	53.000	53.000	53.000	53.000
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	15.840

CH 100


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
PR SWD
RL51.00

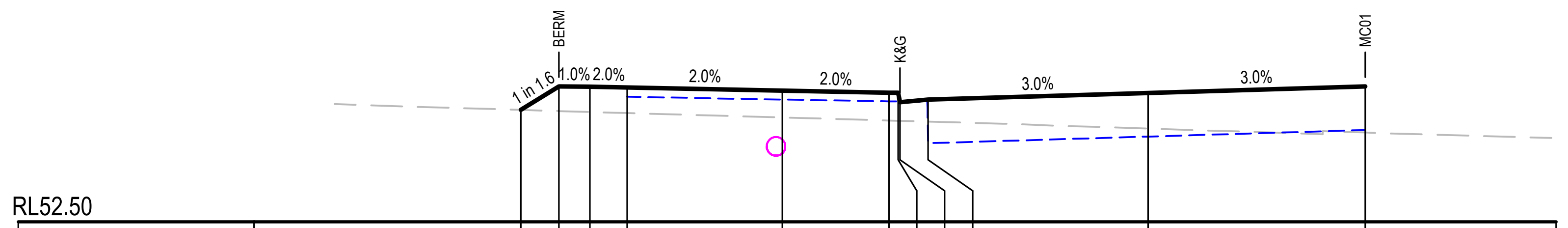
53.677	53.572	53.466	53.426	53.576	53.576	53.610	53.640	53.652	53.657	54.421
53.288	53.123	53.080	53.075	53.075	53.073	53.052	53.034	53.027	53.021	53.000
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	14.293

CH 88.785


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
PR SWD
RL51.25

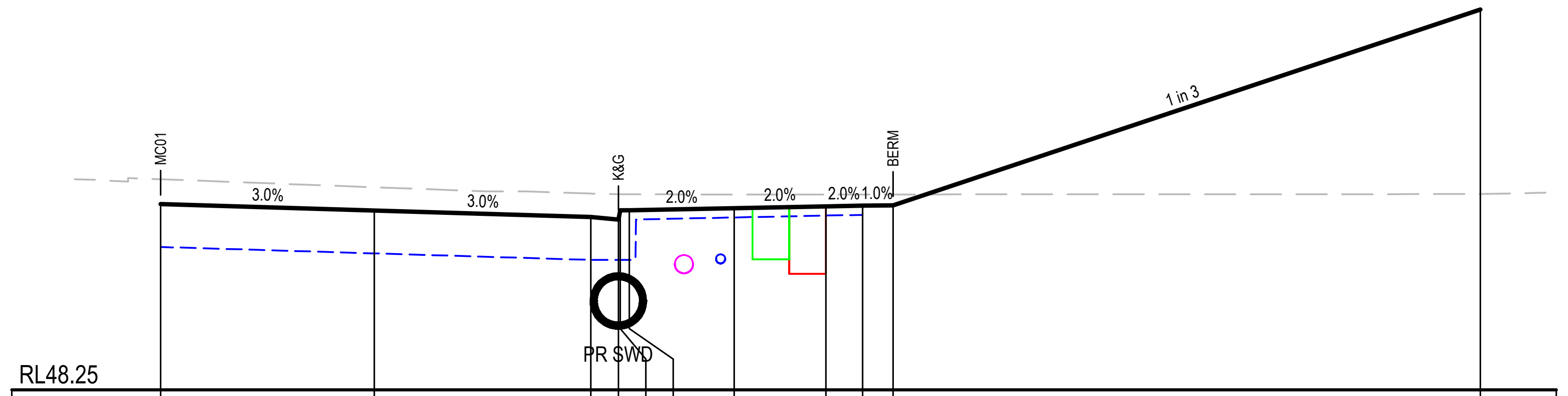
54.103	53.998	53.891	53.851	54.001	54.001	54.035	54.065	54.077	54.082	54.411
53.529	53.359	53.249	53.243	53.242	53.239	53.197	53.165	53.153	53.142	53.122
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	12.986

CH 80


BERM
K&G
MC01
1 in 1.6
1.0%
2.0%
2.0%
2.0%
3.0%
3.0%
RL52.50

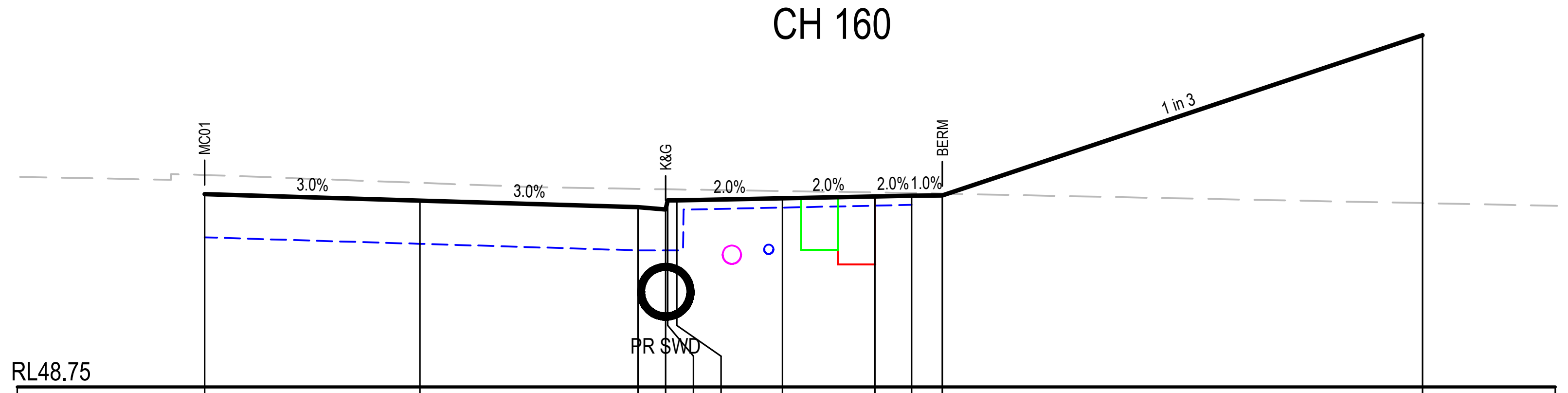
PROPOSED SURFACE LEVEL	54.301	54.679	54.674	54.662	54.612	54.577	54.577	54.427	54.467	54.574	54.679
EXISTING SURFACE LEVEL	54.301	54.283	54.268	54.251	54.180	54.131	54.127	54.126	54.113	54.001	53.937
CENTRELINE OFFSET	-13.617	-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000

CH 68.105


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
PR SWD
RL48.25

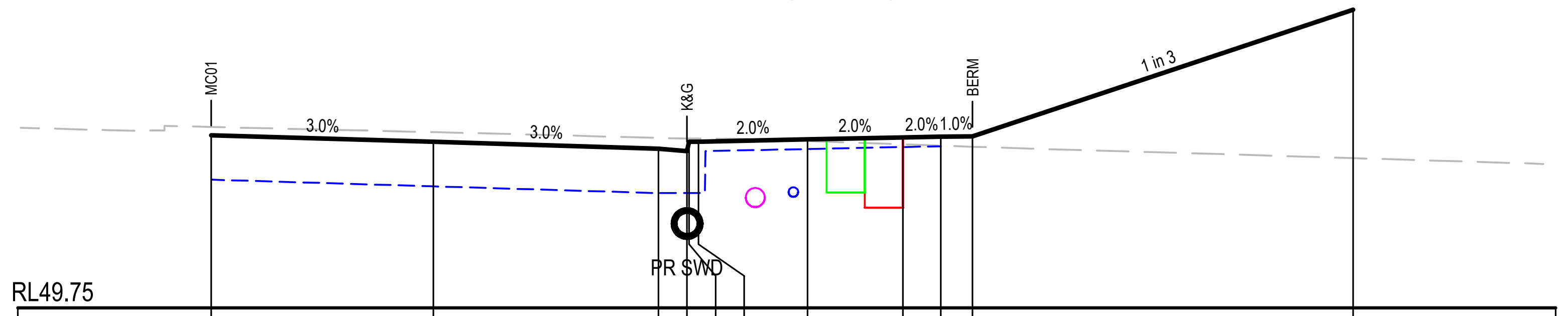
51.291	51.186	51.079	51.039	51.189	51.189	51.224	51.254	51.266	51.271	54.478
51.698	51.568	51.463	51.454	51.454	51.454	51.449	51.449	51.450	51.450	51.457
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	21.623

CH 160


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
PR SWD
RL48.75

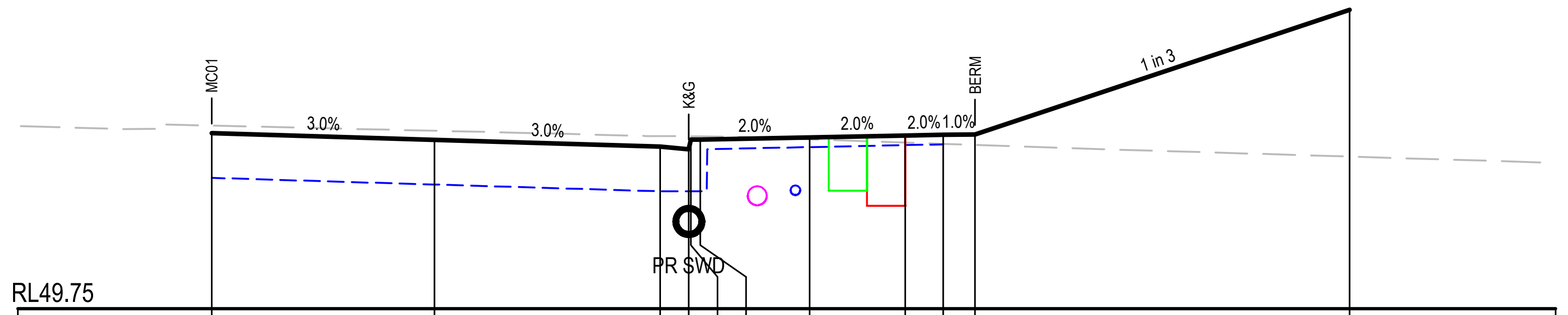
51.881	51.776	51.670	51.630	51.780	51.780	51.814	51.844	51.856	51.861	54.464
52.191	52.065	51.967	51.960	51.960	51.958	51.932	51.909	51.898	51.889	51.736
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	19.809

CH 140


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
PR SWD
RL49.75

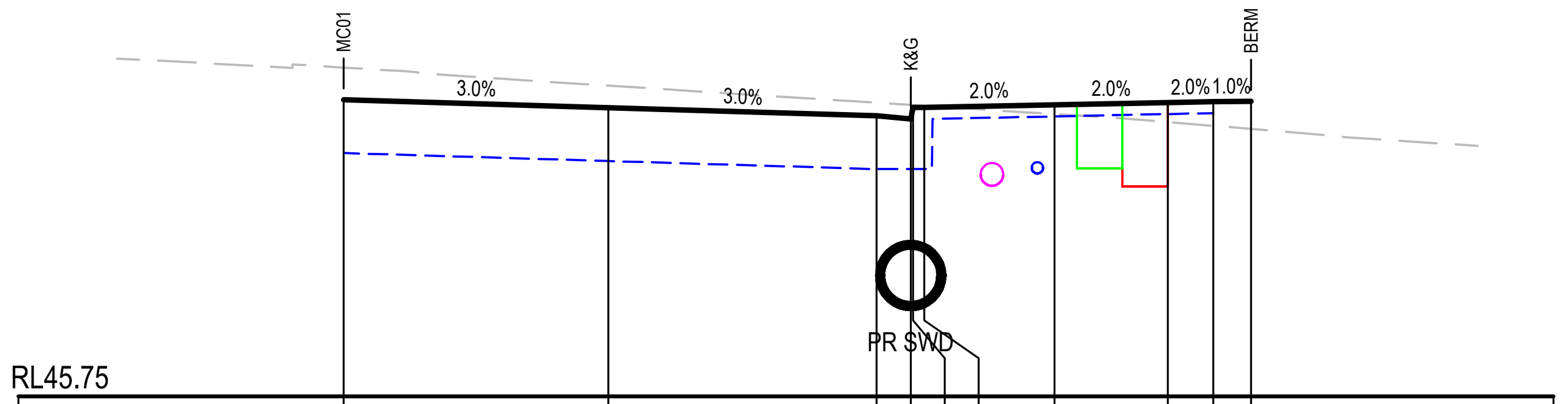
52.472	52.367	52.260	52.220	52.370	52.370	52.405	52.435	52.447	52.452	54.450
52.601	52.520	52.428	52.420	52.420	52.419	52.377	52.326	52.306	52.289	52.110
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	17.995

CH 120


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
PR SWD
RL49.75

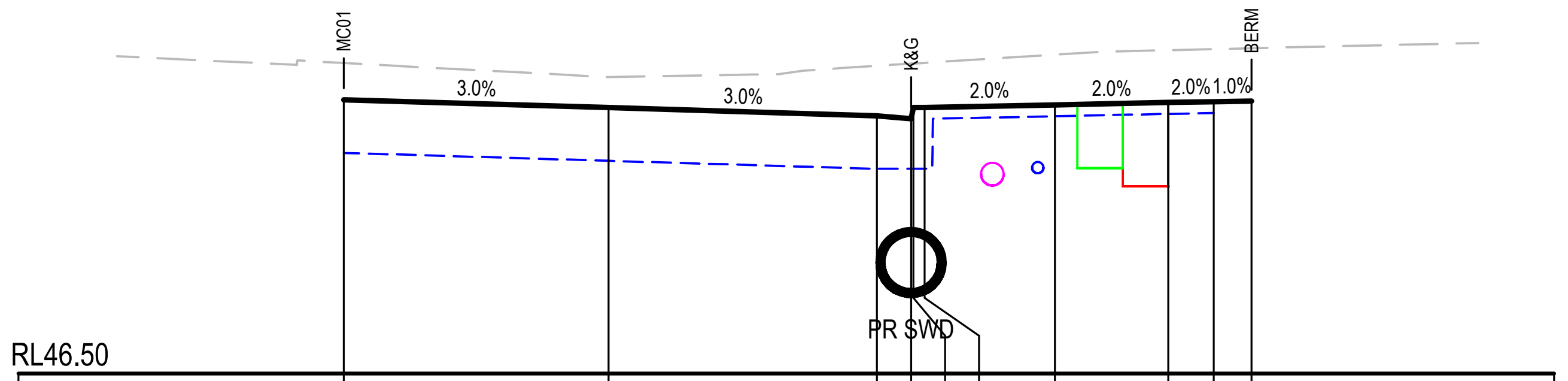
52.508	52.403	52.296	52.256	52.406	52.406	52.441	52.471	52.483	52.488	54.449
52.627	52.546	52.463	52.459	52.459	52.458	52.412	52.361	52.341	52.324	52.140
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	17.885

CH 118.785


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL45.75

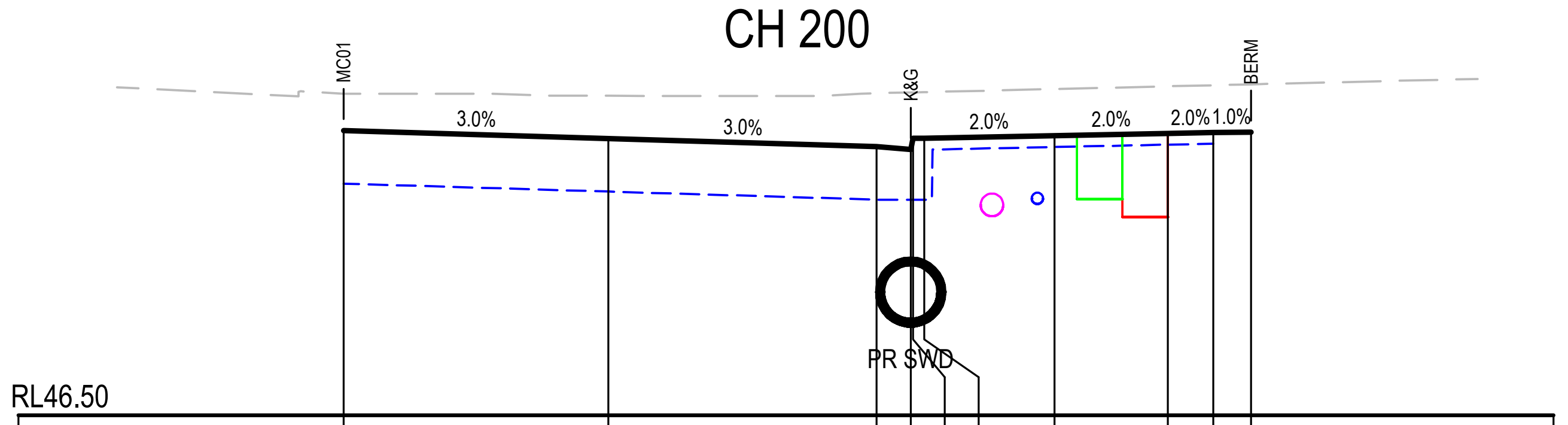
49.662	49.557	49.450	49.410	49.560	49.560	49.595	49.625	49.637	49.642
50.089	49.849	49.623	49.595	49.593	49.583	49.474	49.368	49.320	49.279
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 220


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL46.50

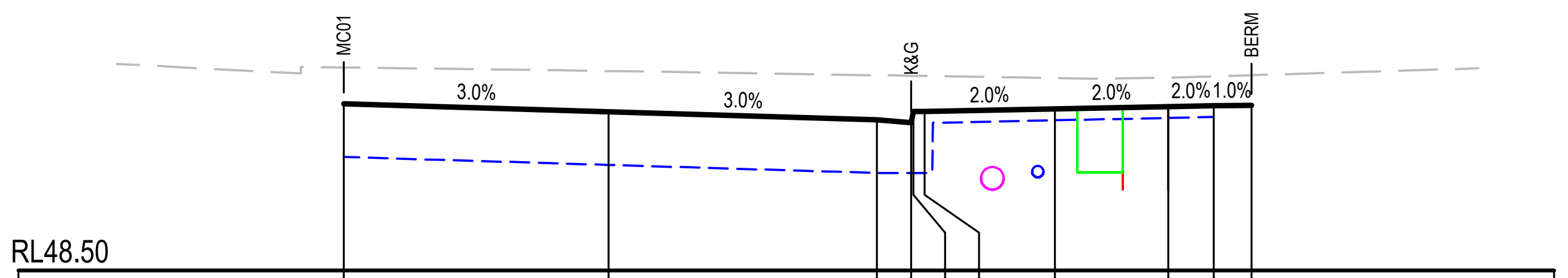
50.115	50.010	49.904	49.864	50.014	50.014	50.048	50.078	50.090	50.095
50.601	50.416	50.563	50.591	50.593	50.603	50.711	50.770	50.784	50.796
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 200


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL46.50

50.262	50.157	50.051	50.011	50.161	50.161	50.195	50.225	50.237	50.242
50.750	50.721	50.755	50.765	50.766	50.770	50.811	50.846	50.861	50.873
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 194.826


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
RL48.50

50.700	50.595	50.489	50.449	50.599	50.599	50.633	50.663	50.675	50.680
51.180	51.133	51.077	51.070	51.070	51.067	51.041	51.047	51.063	51.078
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 180

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

1 : 100 @ A1 1 : 200 @ A3

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Client

ICON
OCEANIA

GDA2020

Scales	1:100	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROAD MC01
CROSS SECTIONS
SHEET 1

Civil Engineers and Project Managers

at&l

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

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

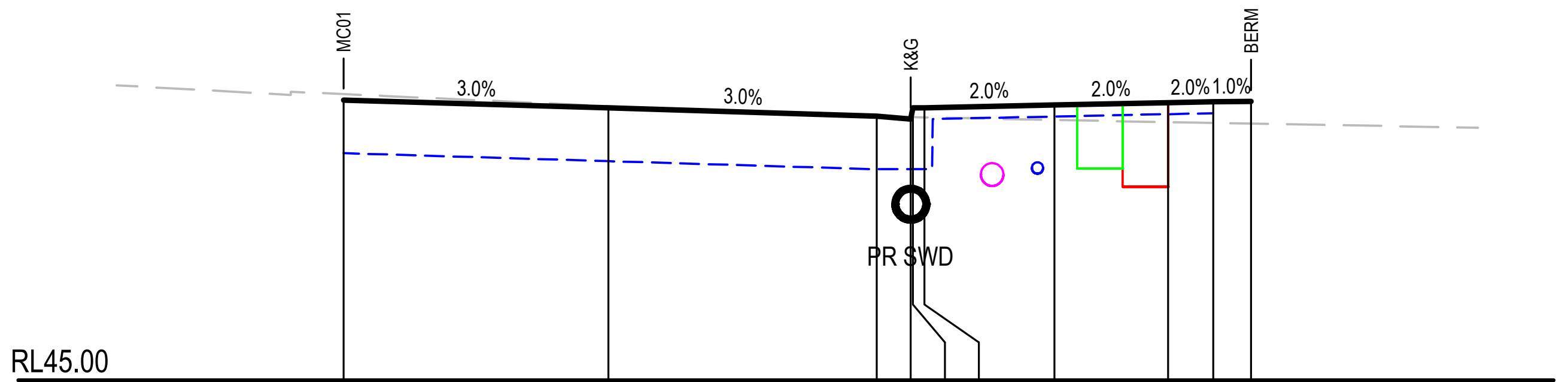
A1

Project - Drawing No.
21-860-C1700

Issue
A

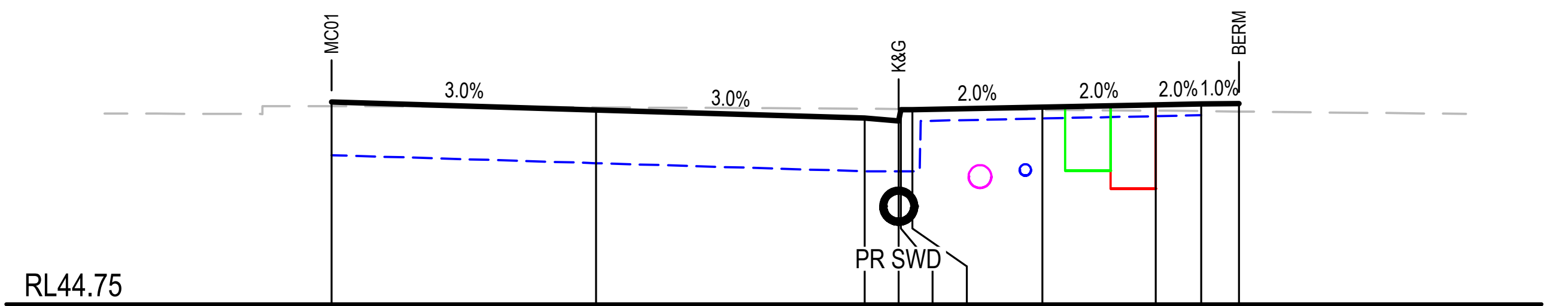
100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1700.dwg


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL45.00

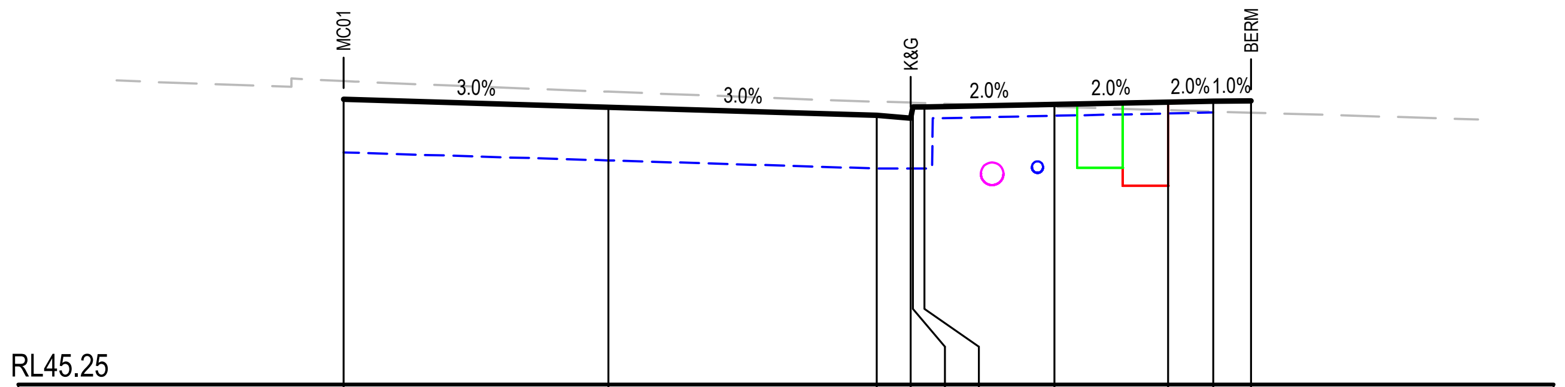
48.696	48.591	48.485	48.445	48.595	48.595	48.629	48.659	48.671	48.676
48.774	48.616	48.480	48.471	48.471	48.468	48.433	48.404	48.393	48.385
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 280


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL44.75

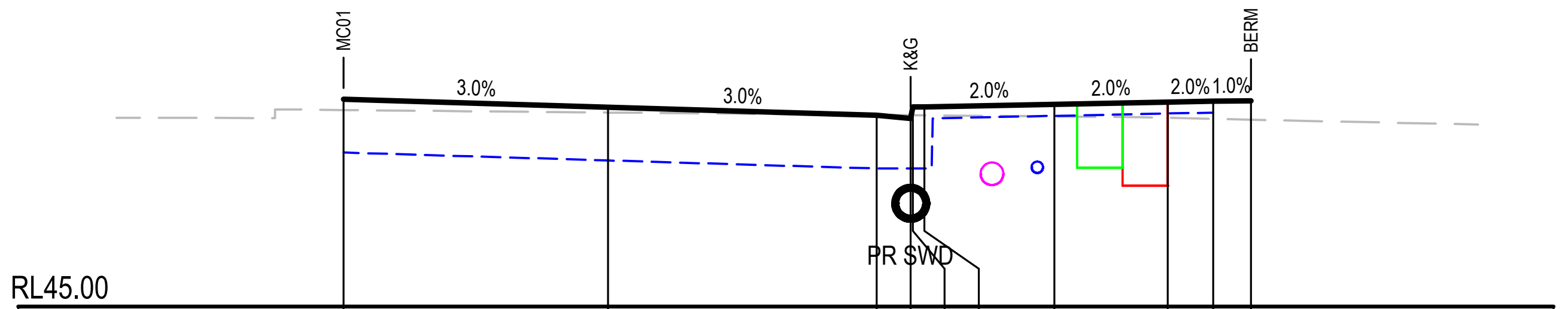
47.416	47.311	47.205	47.165	47.315	47.315	47.349	47.379	47.391	47.396
47.361	47.345	47.327	47.324	47.324	47.323	47.312	47.302	47.296	47.291
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 360


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
RL45.25

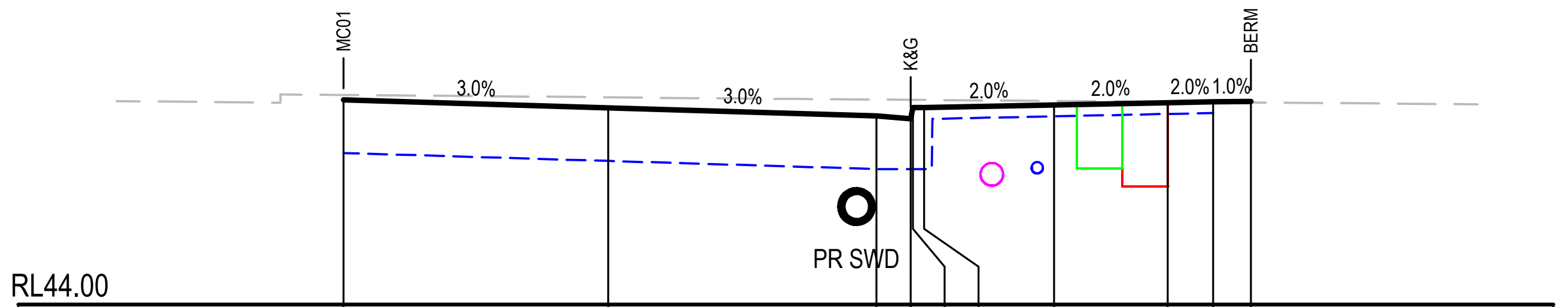
49.016	48.911	48.805	48.765	48.915	48.915	48.949	48.979	48.991	48.996
49.258	49.117	48.986	48.972	48.972	48.967	48.916	48.872	48.855	48.840
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 260


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL45.00

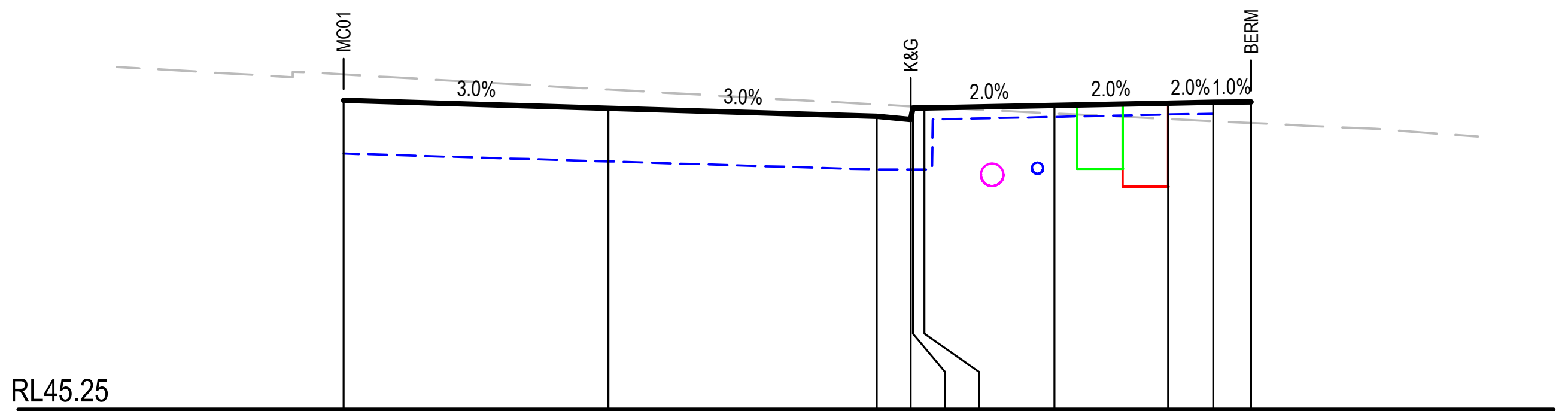
47.736	47.631	47.525	47.485	47.635	47.635	47.669	47.699	47.711	47.716
47.596	47.562	47.532	47.528	47.528	47.526	47.511	47.492	47.479	47.468
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 340


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL44.00

46.701	46.596	46.490	46.450	46.600	46.600	46.634	46.664	46.676	46.681
46.764	46.734	46.703	46.700	46.700	46.699	46.685	46.674	46.669	46.665
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 404.714


MC01
K&G
BERM
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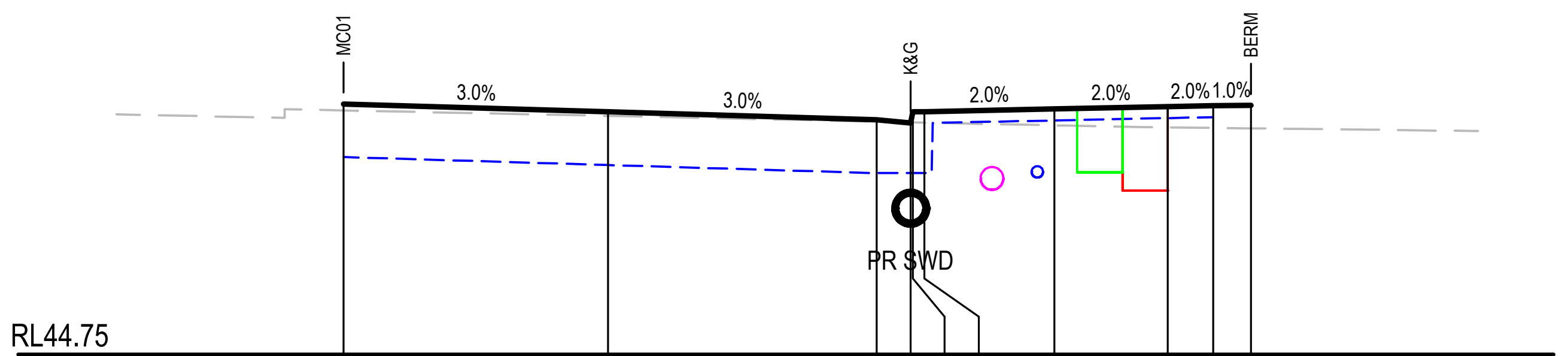
3.0%
2.0%
2.0%
2.0%
1.0%
RL45.25

49.336	49.231	49.125	49.085	49.235	49.235	49.269	49.299	49.311	49.316
49.681	49.481	49.283	49.259	49.257	49.249	49.165	49.091	49.062	49.037
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 240


MC01
K&G
BERM
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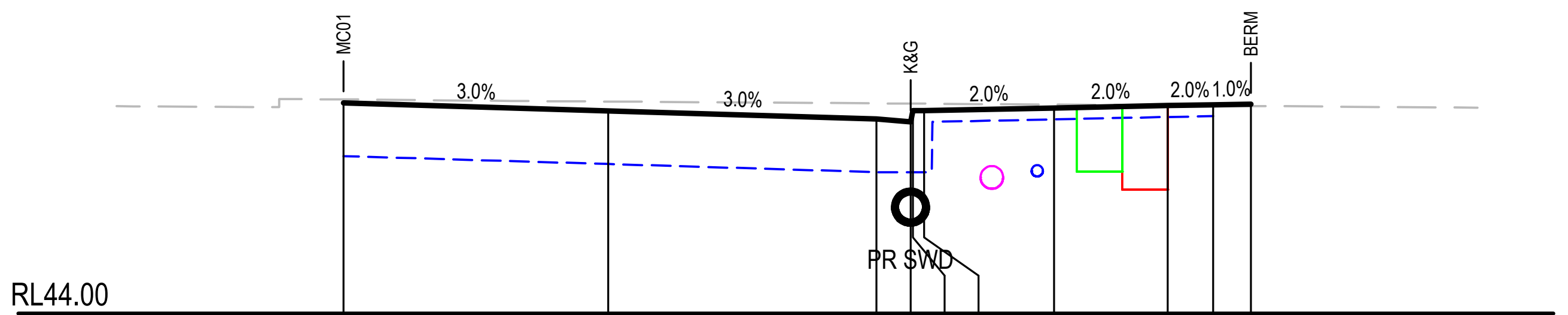
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL44.75

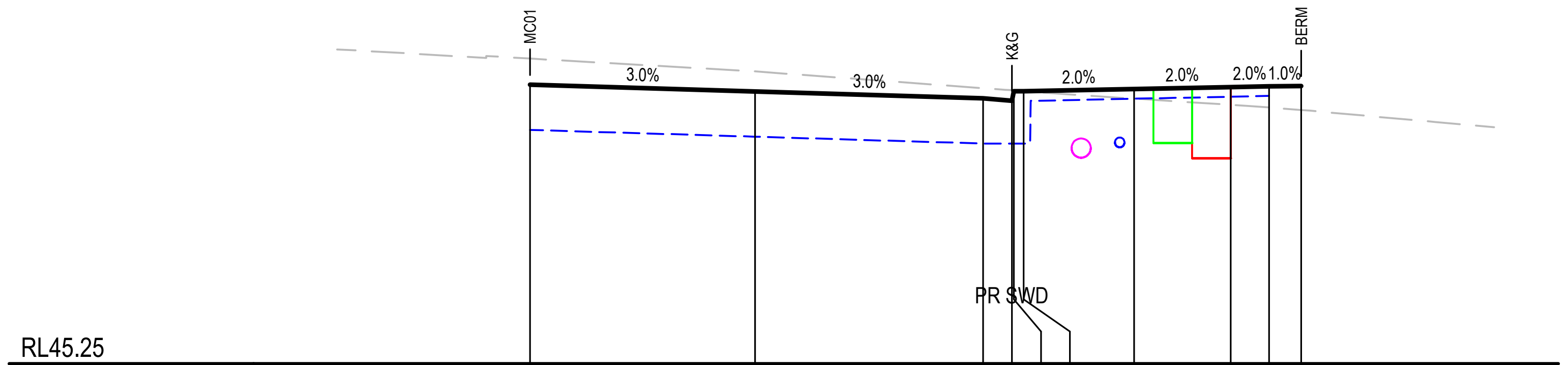
48.056	47.951	47.845	47.805	47.955	47.955	47.989	48.019	48.031	48.036
47.971	47.898	47.823	47.814	47.813	47.810	47.773	47.746	47.739	47.734
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 320


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL44.00

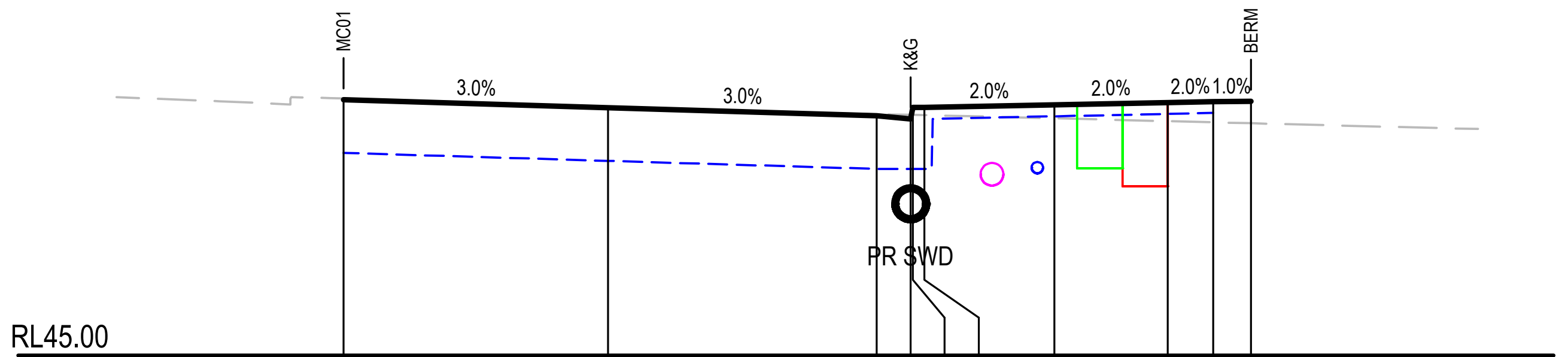
46.776	46.671	46.565	46.525	46.675	46.675	46.709	46.739	46.751	46.756
46.822	46.793	46.770	46.767	46.766	46.765	46.754	46.743	46.739	46.735
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 400


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL45.25

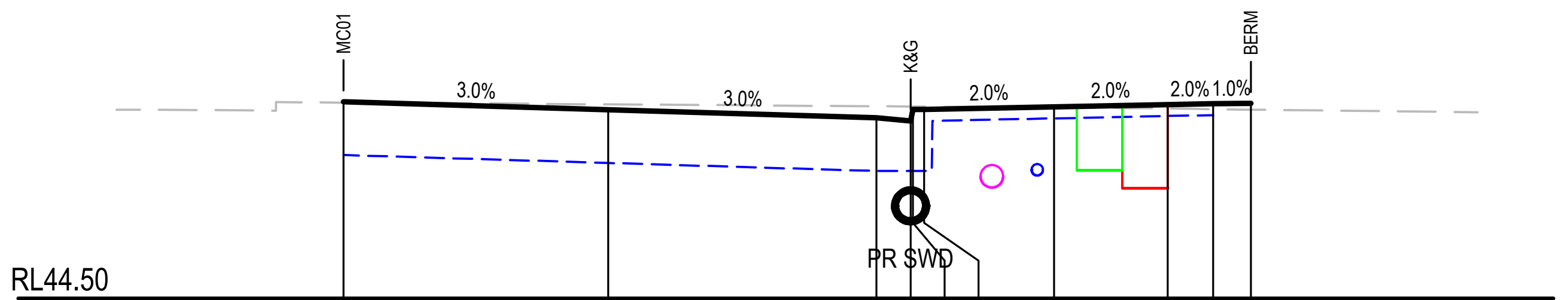
PROPOSED SURFACE LEVEL	49.579	49.474	49.368	49.328	49.478	49.478	49.512	49.542	49.554	49.559
EXISTING SURFACE LEVEL	49.985	49.785	49.526	49.493	49.491	49.480	49.363	49.267	49.225	49.186
CENTRELINE OFFSET	0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 224.826


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL45.00

48.376	48.271	48.165	48.125	48.275	48.275	48.309	48.339	48.351	48.356
48.392	48.276	48.186	48.177	48.176	48.173	48.133	48.094	48.079	48.066
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 300


MC01
K&G
BERM
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
PR SWD
RL44.50

47.096	46.991	46.885	46.845	46.995	46.995	47.029	47.059	47.071	47.076
47.087	47.064	47.038	47.035	47.035	47.034	47.021	47.010	47.000	46.994
0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 380

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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Client

ICON
OCEANIA

Scales 1:100
Grid MGA2020
Height Datum AHD

GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROAD MC01
CROSS SECTIONS
SHEET 2

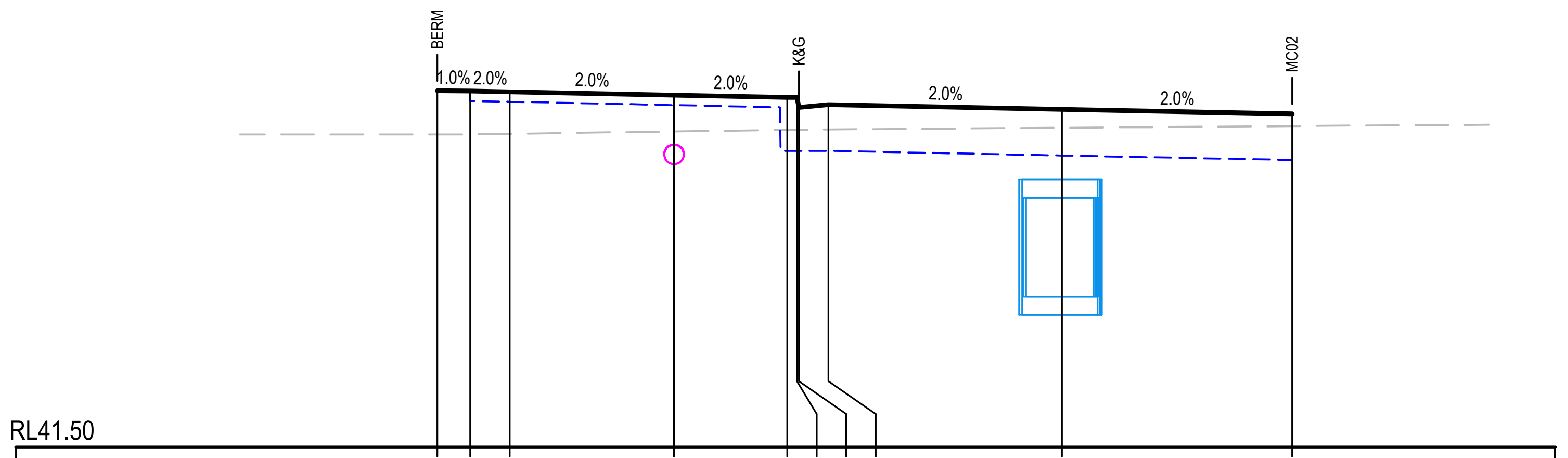
Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1701

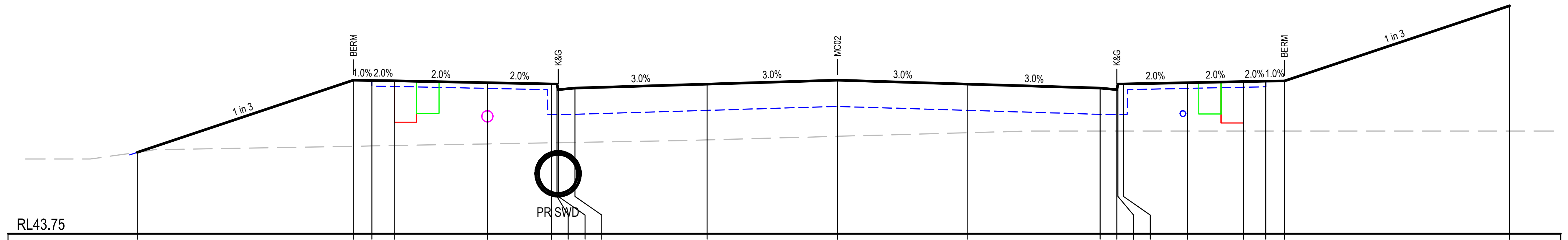
Issue
A

100mm on Original


BERM
1.0% 2.0%
2.0%
2.0%
K&G
2.0%
2.0%
MC02
RL41.50

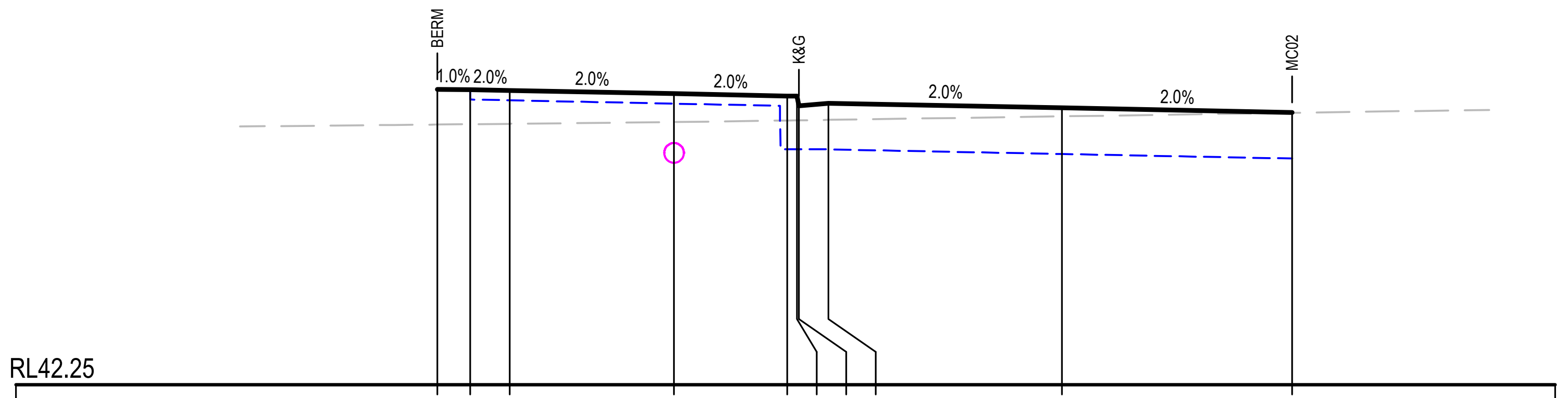
46.913	46.908	46.896	46.846	46.811	46.811	46.661	46.701	46.630	46.560
46.250	46.251	46.259	46.295	46.319	46.321	46.321	46.325	46.350	46.376
-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000

CH 20


1 in 3
BERM
1.0% 2.0%
2.0%
2.0%
K&G
3.0%
3.0%
MC02
3.0%
3.0%
K&G
2.0%
2.0%
2.0% 1.0%
BERM
1 in 3
PR SWD
RL43.75

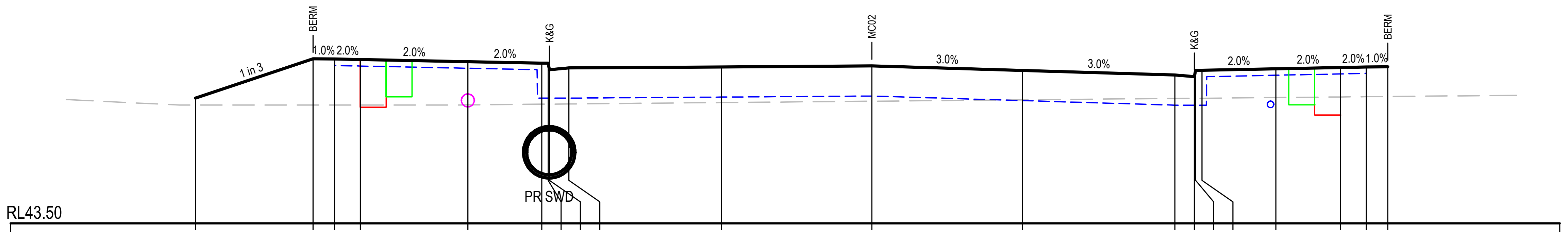
45.928	47.862	47.857	47.845	47.795	47.760	47.760	47.610	47.650	47.757	47.862	47.757	47.650	47.610	47.760	47.760	47.795	47.825	47.837	47.842	49.857
45.928	46.093	46.101	46.112	46.155	46.185	46.187	46.188	46.195	46.263	46.359	46.455	46.500	46.500	46.500	46.500	46.500	46.500	46.500	46.500	46.500
-18.802	-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	18.046

CH 60


BERM
1.0% 2.0%
2.0%
2.0%
K&G
2.0%
2.0%
MC02
RL42.25

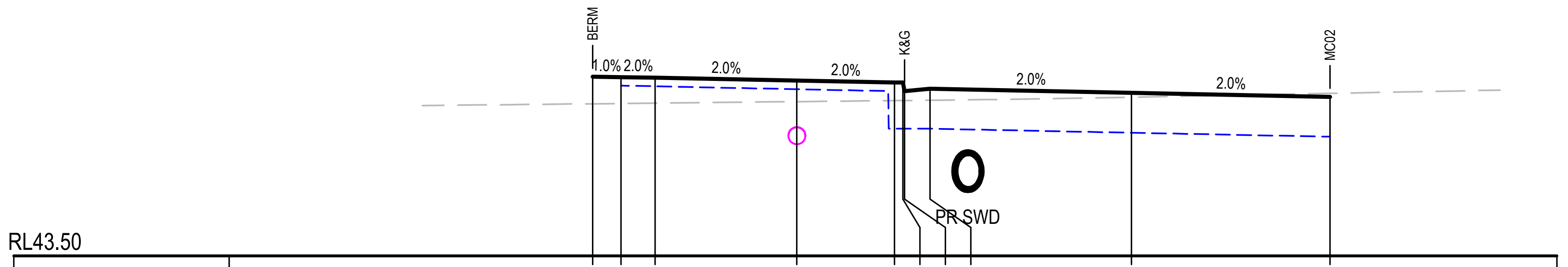
46.743	46.738	46.726	46.676	46.641	46.641	46.491	46.531	46.460	46.390
46.207	46.212	46.218	46.244	46.268	46.270	46.271	46.278	46.331	46.384
-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000

CH 9.027


1 in 3
BERM
1.0% 2.0%
2.0%
2.0%
K&G
MC02
3.0%
3.0%
K&G
2.0%
2.0%
2.0% 1.0%
BERM
PR SWD
RL43.50

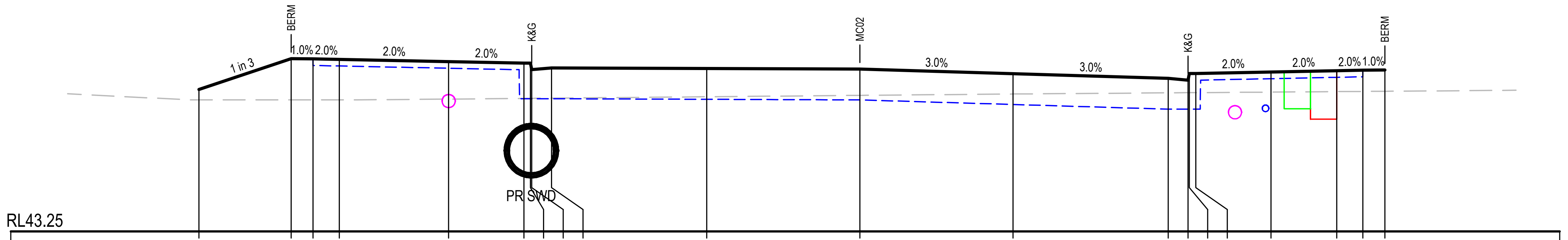
46.413	47.325	47.320	47.308	47.258	47.224	47.224	47.074	47.114	47.138	47.162	47.057	46.950	46.910	47.060	47.060	47.095	47.125	47.137	47.142
46.250	46.250	46.250	46.250	46.255	46.271	46.272	46.272	46.276	46.308	46.340	46.372	46.404	46.408	46.408	46.410	46.425	46.439	46.444	46.449
-15.735	-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 40


BERM
1.0% 2.0%
2.0%
2.0%
K&G
2.0%
2.0%
MC02
PR SWD
RL43.50

PROPOSED SURFACE LEVEL	46.652	46.647	46.635	46.585	46.551	46.551	46.401	46.441	46.370	46.300
EXISTING SURFACE LEVEL	46.178	46.183	46.189	46.215	46.233	46.235	46.235	46.240	46.294	46.361
CENTRELINE OFFSET	-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000

CH 0


1 in 3
BERM
1.0% 2.0%
2.0%
2.0%
K&G
MC02
3.0%
3.0%
K&G
2.0%
2.0%
2.0% 1.0%
BERM
PR SWD
RL43.25

46.489	47.191	47.186	47.174	47.124	47.090	47.090	46.940	46.980	46.966	46.953	46.848	46.741	46.701	46.851	46.851	46.886	46.916	46.928	46.933
46.250	46.250	46.250	46.250	46.269	46.284	46.286	46.286	46.290	46.322	46.354	46.385	46.411	46.415	46.415	46.416	46.429	46.440	46.444	46.448
-15.108	-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000

CH 34.027

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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OTHER PURPOSE THAN THAT ORIGINALLY INTENDED
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PERMISSION OF AT&L

Client

ICON
OCEANIA

Scales	1:100	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROAD MC02
CROSS SECTIONS
SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

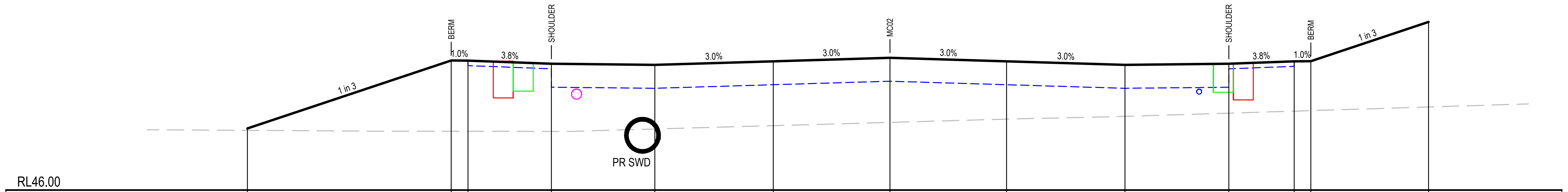
A1

Project - Drawing No.
21-860-C1702

Issue
A

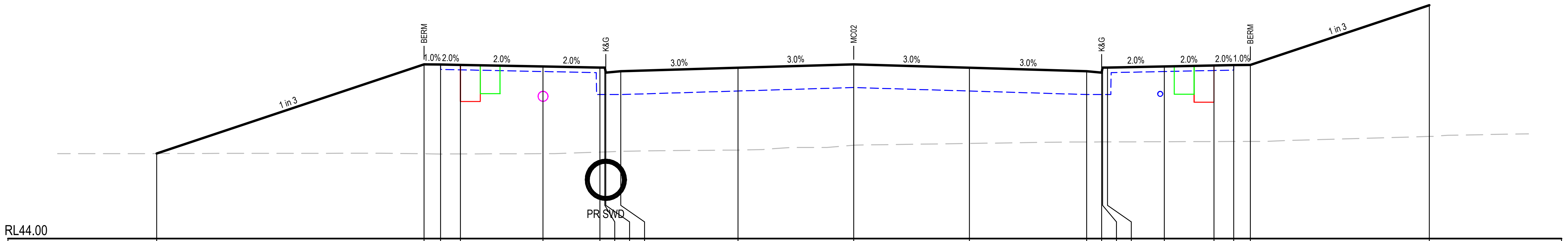
100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1702.dwg


BERM
SHOULDER
MC02
SHOULDER
BERM
1.0%
3.8%
3.0%
3.0%
3.0%
3.0%
3.8%
1.0%
1 in 3
1 in 3
PR SWD
RL46.00

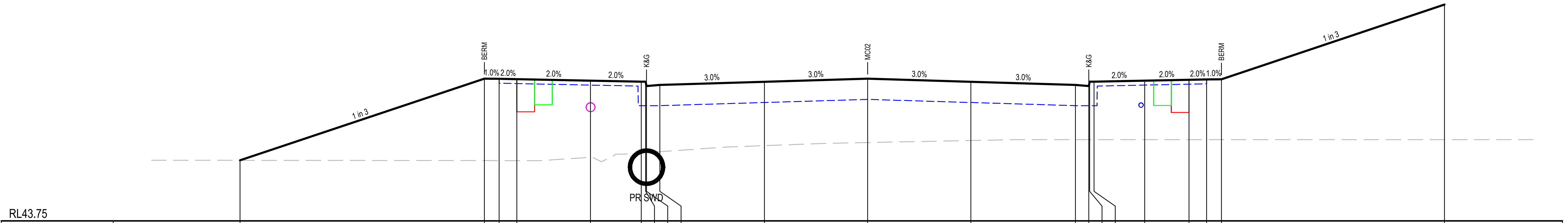
47.843	49.882	49.877	49.781	49.750	49.857	49.962	49.857	49.750	49.781	49.856	49.861	51.037
47.787	47.759	47.759	47.757	47.828	47.928	48.026	48.125	48.207	48.302	48.363	48.379	48.488
-19.273	-13.158	-12.658	-10.153	-7.050	-3.500	0.000	3.500	7.050	10.166	12.126	12.626	16.154

CH 120


BERM
K&G
MC02
K&G
BERM
1.0%
2.0%
2.0%
2.0%
3.0%
3.0%
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
1 in 3
PR SWD
RL44.00

46.565	49.262	49.257	49.245	49.195	49.160	49.160	49.010	49.050	49.157	49.262	49.157	49.050	49.010	49.160	49.160	49.195	49.225	49.237	49.242	51.047
46.565	46.559	46.552	46.554	46.563	46.609	46.614	46.615	46.630	46.671	46.815	46.871	46.915	46.917	46.917	46.917	46.923	46.928	46.931	46.932	47.083
-21.089	-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	17.417

CH 100


BERM
K&G
MC02
K&G
BERM
1.0%
2.0%
2.0%
2.0%
3.0%
3.0%
3.0%
3.0%
2.0%
2.0%
2.0%
1.0%
1 in 3
1 in 3
PR SWD
RL43.75

PROPOSED SURFACE LEVEL	45.799	48.562	48.557	48.545	48.495	48.460	48.460	48.310	48.350	48.457	48.562	48.457	48.350	48.310	48.460	48.460	48.495	48.525	48.537	48.542	51.065
EXISTING SURFACE LEVEL	45.799	45.790	45.790	45.789	45.901	46.050	46.061	46.063	46.093	46.296	46.401	46.469	46.500	46.500	46.500	46.500	46.500	46.500	46.500	46.500	46.500
CENTRELINE OFFSET	-21.288	-13.000	-12.500	-11.900	-9.400	-7.680	-7.530	-7.500	-7.050	-3.500	0.000	3.500	7.050	7.500	7.530	7.680	9.400	10.900	11.500	12.000	19.569

CH 80

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
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Client

ICON
OCEANIA

Scales 1:100
Grid MGA2020
Height Datum AHD

GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROAD MC02
CROSS SECTIONS
SHEET 2

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

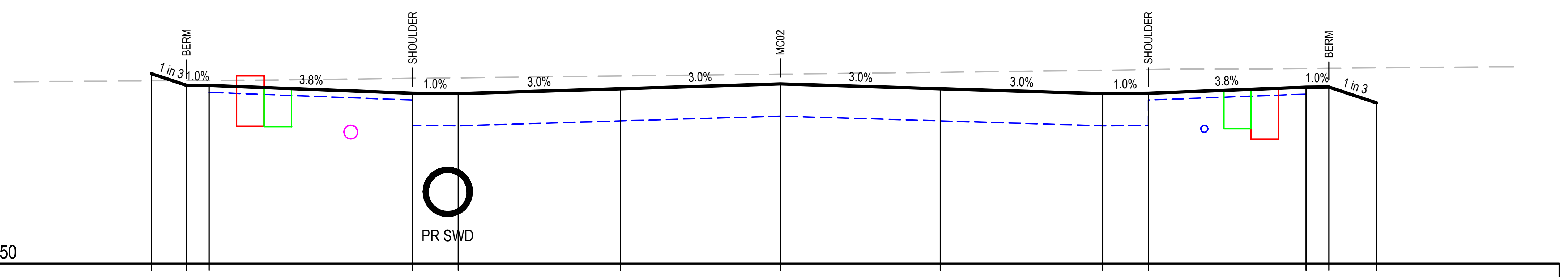
A1

Project - Drawing No.
21-860-C1703

Issue
A

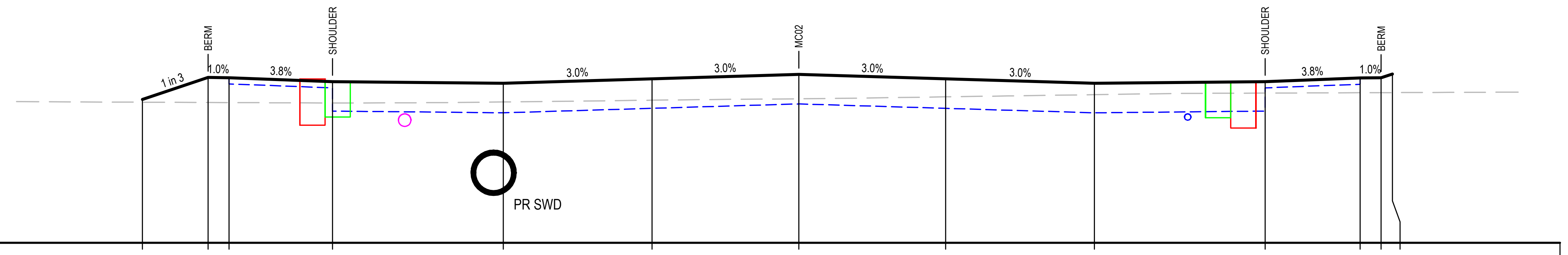
100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1703.dwg


BERM
SHOULDER
MC02
SHOULDER
BERM
1 in 3
1.0%
3.8%
1.0%
3.0%
3.0%
3.0%
3.0%
1.0%
3.8%
1.0%
1 in 3
PR SWD
RL47.50

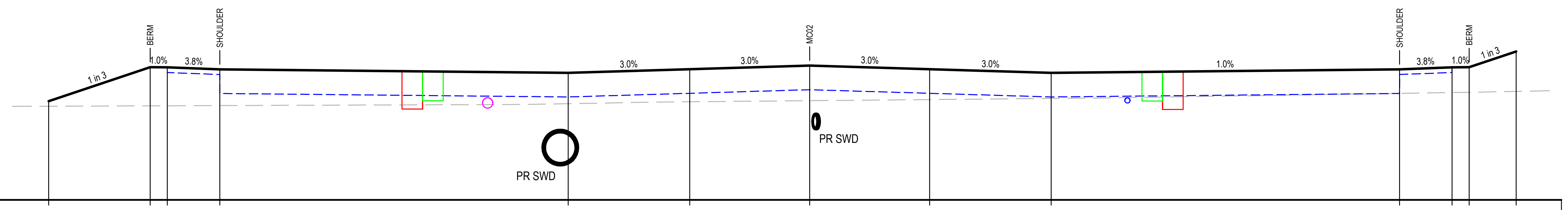
51.650	51.396	51.391	51.221	51.211	51.318	51.423	51.318	51.211	51.221	51.353	51.358	51.011
51.492	51.496	51.499	51.546	51.557	51.599	51.639	51.680	51.724	51.739	51.763	51.767	51.776
-13.765	-13.000	-12.500	-8.050	-7.050	-3.500	0.000	3.500	7.050	8.050	11.500	12.000	13.040

CH 160


BERM
SHOULDER
MC02
SHOULDER
BERM
1 in 3
1.0%
3.8%
3.0%
3.0%
3.0%
3.0%
3.8%
1.0%
PR SWD
RL47.00

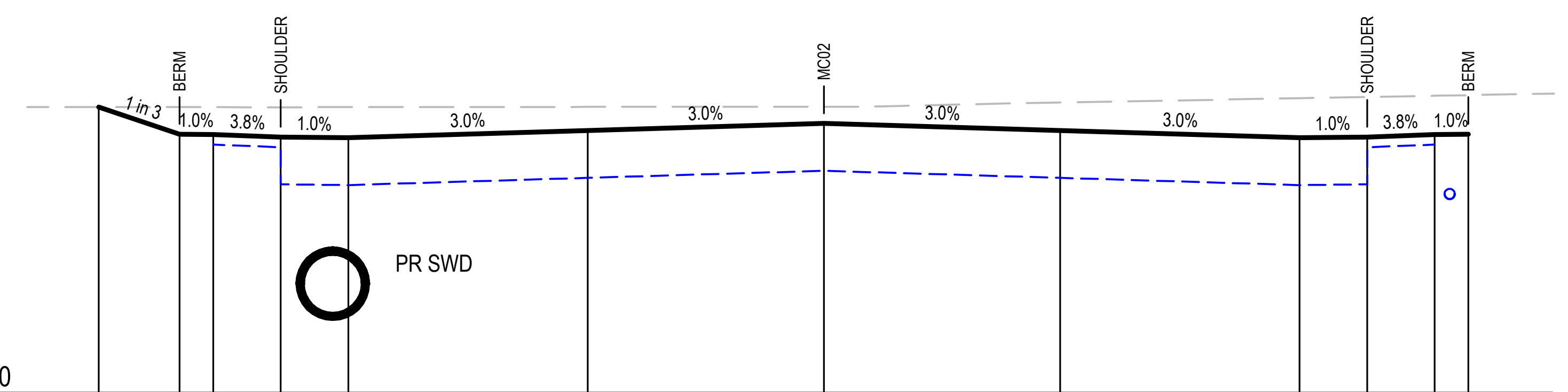
50.418	50.940	50.935	50.841	50.800	50.907	51.012	50.907	50.800	50.841	50.927	50.932	51.021
50.351	50.344	50.342	50.331	50.356	50.398	50.432	50.478	50.530	50.568	50.576	50.578	50.579
-15.657	-14.091	-13.591	-11.120	-7.050	-3.500	0.000	3.500	7.050	11.120	13.387	13.887	14.154

CH 149.996


BERM
SHOULDER
MC02
SHOULDER
BERM
1 in 3
1.0%
3.8%
3.0%
3.0%
3.0%
3.0%
1.0%
3.8%
1.0%
1 in 3
PR SWD
PR SWD
RL46.75

PROPOSED SURFACE LEVEL	49.627	50.615	50.610	50.552	50.450	50.557	50.662	50.557	50.450	50.552	50.610	50.615	51.073
EXISTING SURFACE LEVEL	49.478	49.489	49.491	49.497	49.553	49.608	49.640	49.672	49.704	49.853	49.877	49.885	49.910
CENTRELINE OFFSET	-22.214	-19.249	-18.749	-17.218	-7.050	-3.500	0.000	3.500	7.050	17.218	18.749	19.249	20.622

CH 140


BERM
SHOULDER
MC02
SHOULDER
BERM
1 in 3
1.0%
3.8%
1.0%
3.0%
3.0%
3.0%
3.0%
1.0%
3.8%
1.0%
PR SWD
RL47.50

51.737	51.338	51.333	51.295	51.285	51.391	51.496	51.391	51.285	51.295	51.333	51.338
51.737	51.736	51.736	51.736	51.737	51.740	51.744	51.805	51.869	51.887	51.905	51.915
-10.749	-9.550	-9.050	-8.050	-7.050	-3.500	0.000	3.500	7.050	8.050	9.050	9.550

CH 161.518

Issue	Description	Date
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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Client

ICON
OCEANIA

Scales 1:100
Grid MGA2020
Height Datum AHD

GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
ROAD MC02
CROSS SECTIONS
SHEET 3

Civil Engineers and Project Managers

at&l

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1704

Issue
A

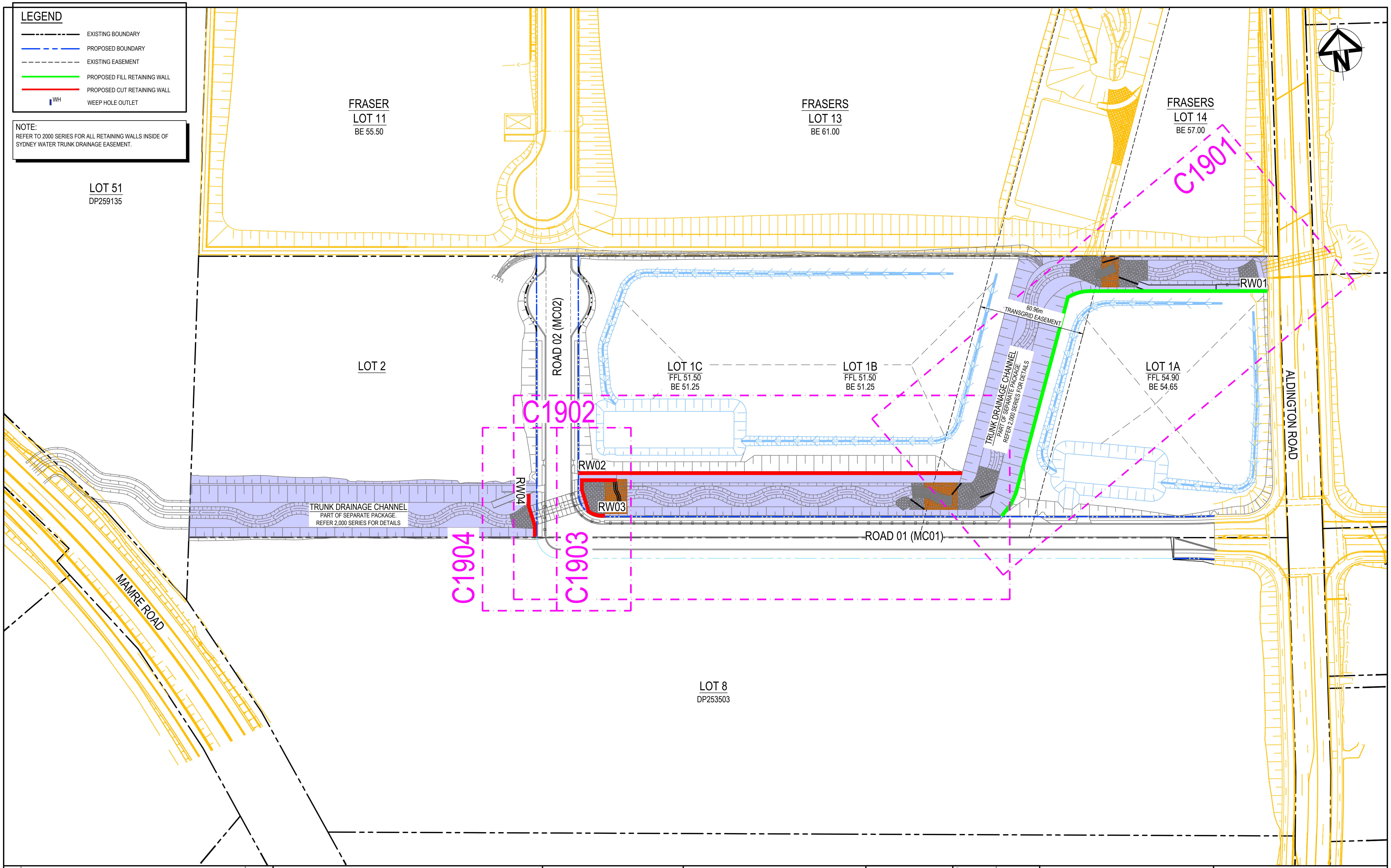
100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1704.dwg

LEGEND

—··—	EXISTING BOUNDARY
—·—·	PROPOSED BOUNDARY
- - - -	EXISTING EASEMENT
🟩	PROPOSED FILL RETAINING WALL
🟥	PROPOSED CUT RETAINING WALL
▮WH	WEEP HOLE OUTLET

NOTE:
REFER TO 2000 SERIES FOR ALL RETAINING WALLS INSIDE OF SYDNEY WATER TRUNK DRAINAGE EASEMENT.


FRASER
LOT 11
BE 55.50
FRASERS
LOT 13
BE 61.00
FRASERS
LOT 14
BE 57.00
LOT 51
DP259135
C1901
LOT 2
ROAD 02 (MC02)
LOT 1C
FFL 51.50
BE 51.25
LOT 1B
FFL 51.50
BE 51.25
LOT 1A
FFL 54.90
BE 54.65
60.96m
TRANSGRID EASEMENT
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
RW01
ALDINGTON ROAD
C1902
RW02
RW03
RW04
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
ROAD 01 (MC01)
C1904
C1903
MAMRE ROAD
LOT 8
DP253503
N

Issue	Description	Date
C	ISSUED FOR APPROVAL	02-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1:500	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
RETAINING WALL
GENERAL ARRANGMENT
PLAN

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
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Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

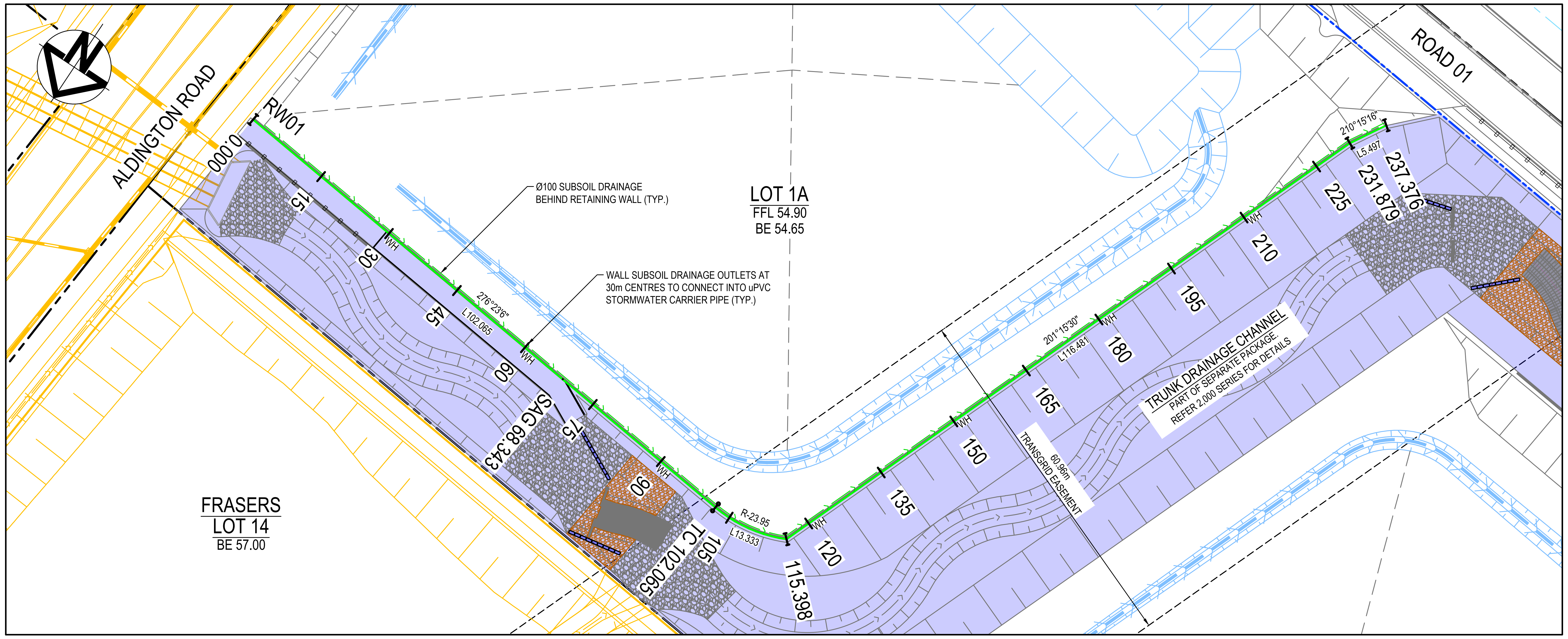
Project - Drawing No.
21-860-C1900

Issue
C

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1900.dwg

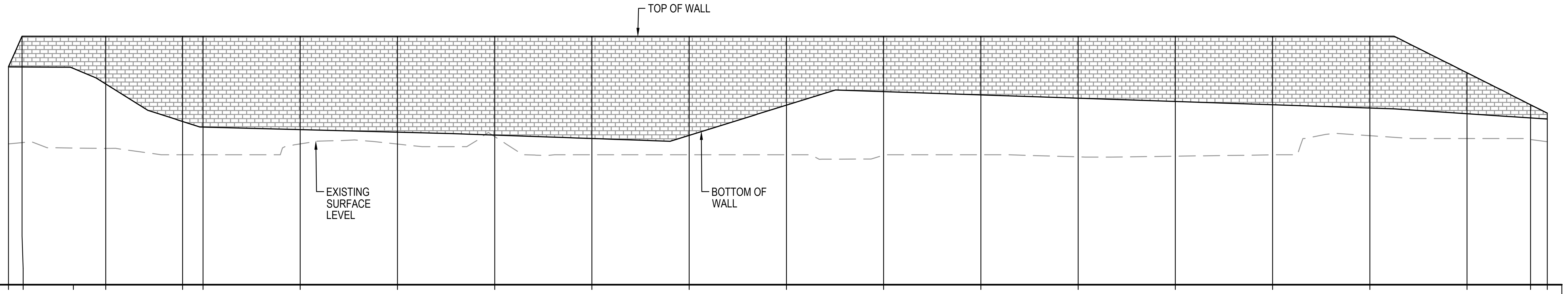
LEGEND

EXISTING BOUNDARY
PROPOSED BOUNDARY
EXISTING EASEMENT
PROPOSED FILL RETAINING WALL
PROPOSED CUT RETAINING WALL
▮WH WEEP HOLE OUTLET


ALDINGTON ROAD
RW01
0.000
15
30
45
60
75
90
105
120
135
150
165
180
195
210
225
SAG 68.343
TC 102.065
115.398
231.879
237.376
WH
276°23'6"
L102.065
R-23.95
L13.333
201°15'30"
L116.481
210°15'16"
L5.497
Ø100 SUBSOIL DRAINAGE
BEHIND RETAINING WALL (TYP.)
WALL SUBSOIL DRAINAGE OUTLETS AT
30m CENTRES TO CONNECT INTO uPVC
STORMWATER CARRIER PIPE (TYP.)
LOT 1A
FFL 54.90
BE 54.65
FRASERS
LOT 14
BE 57.00
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
60.96m
TRANSGRID EASEMENT
ROAD 01

PLAN

SCALE 1:500


TOP OF WALL
EXISTING
SURFACE
LEVEL
BOTTOM OF
WALL

Datum RL47

BOTTOM OF RETAINING WALL	53.707	53.705	53.659	53.181	52.025	51.853	51.775	51.697	51.606	51.500	51.597
TOP OF RETAINING WALL	53.709	54.65	54.65	54.65	54.65	54.65	54.65	54.65	54.65	54.65	54.65
HEIGHT OF RETAINING WALL	0.002	0.945	0.991	1.469	2.625	2.797	2.875	2.953	3.044	3.150	3.053
EXISTING SURFACE LEVEL	51.336	51.374	51.208	51.196	51.000	51.000	51.335	51.330	51.561	51.000	51.000
BOTTOM OF WALL EASTING COORDINATES	296065.958	296063.894	296056.02	296051.051	296039.269	296036.144	296021.237	296006.33	295991.423	295976.516	295961.596
BOTTOM OF WALL NORTHING COORDINATES	6252020.065	6252020.296	6252021.177	6252021.733	6252023.051	6252023.401	6252025.069	6252026.737	6252028.406	6252030.074	6252031.562
CHAINAGE	0.000	2.077	10.000	15.000	26.855	30.000	45.000	60.000	75.000	90.000	105.000

BOTTOM OF RETAINING WALL	52.526	52.944	52.843	52.742	52.641	52.540	52.439	52.264	52.134	52.098
TOP OF RETAINING WALL	54.65	54.65	54.65	54.65	54.65	54.65	54.65	53.524	52.54	52.282
HEIGHT OF RETAINING WALL	2.124	1.706	1.807	1.908	2.009	2.110	2.211	1.260	0.406	0.184
EXISTING SURFACE LEVEL	51.000	50.991	51.000	50.935	50.956	50.998	51.588	51.500	51.470	51.403
BOTTOM OF WALL EASTING COORDINATES	295949.879	295944.44	295939.002	295933.563	295928.124	295922.686	295917.247	295911.809	295907.844	295906.545
BOTTOM OF WALL NORTHING COORDINATES	6252024.94	6252010.96	6251996.981	6251983.002	6251969.022	6251955.043	6251941.064	6251927.085	6251918.152	6251915.926
CHAINAGE	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	234.798	237.376

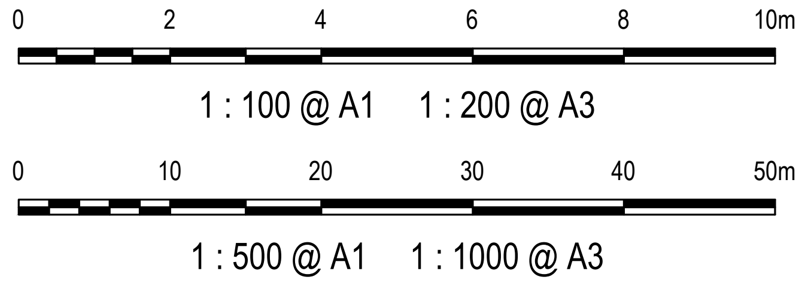
RETAINING WALL RW01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
C	ISSUED FOR APPROVAL	02-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales


0
2
4
6
8
10m
1 : 100 @ A1 1 : 200 @ A3
0
10
20
30
40
50m
1 : 500 @ A1 1 : 1000 @ A3

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ANY FORM OR USED FOR ANY
OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
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PERMISSION OF AT&L

Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
RETAINING WALL
PROFILES
SHEET 1

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info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

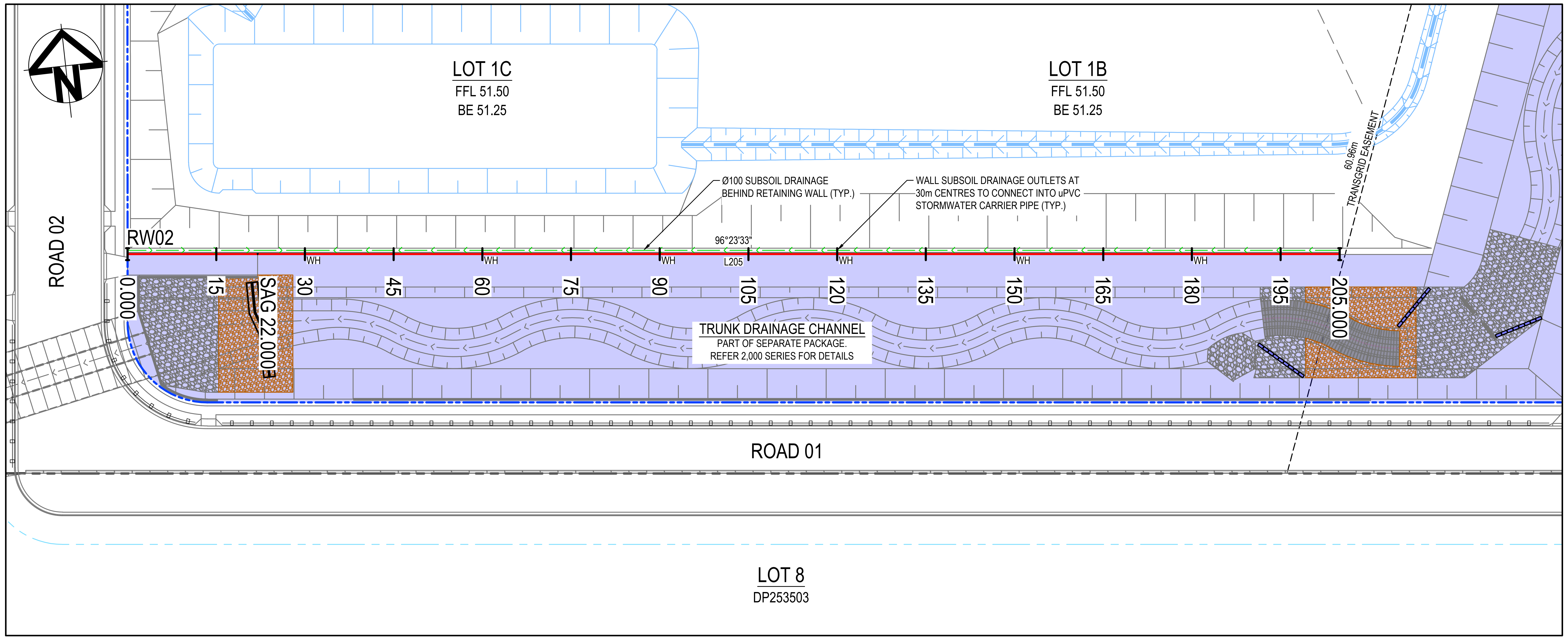
Project - Drawing No.
21-860-C1901
Issue
C

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1901.dwg

LEGEND

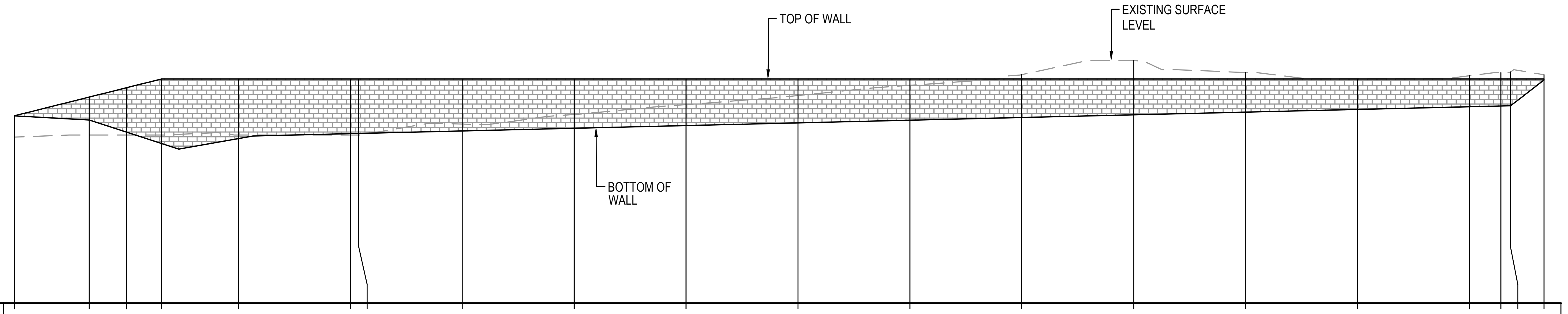
- ━ ‑ ━ ‑ ━ EXISTING BOUNDARY
- ━ ━ ━ PROPOSED BOUNDARY
- – – – – EXISTING EASEMENT
- 🟩 PROPOSED FILL RETAINING WALL
- 🟥 PROPOSED CUT RETAINING WALL
- ▮WH WEEP HOLE OUTLET

NOTE:
REFER TO 2000 SERIES FOR ALL RETAINING WALLS INSIDE OF SYDNEY WATER TRUNK DRAINAGE EASEMENT.


N
LOT 1C
FFL 51.50
BE 51.25
LOT 1B
FFL 51.50
BE 51.25
ROAD 02
RW02
Ø100 SUBSOIL DRAINAGE BEHIND RETAINING WALL (TYP.)
WALL SUBSOIL DRAINAGE OUTLETS AT 30m CENTRES TO CONNECT INTO uPVC STORMWATER CARRIER PIPE (TYP.)
96°23'33"
L205
WH
0.000
15
SAG 22.000
30
45
60
75
90
105
120
135
150
165
180
195
205.000
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS
60.96m TRANSGRID EASEMENT
ROAD 01
LOT 8
DP253503

PLAN

SCALE 1:200


TOP OF WALL
EXISTING SURFACE LEVEL
BOTTOM OF WALL

Datum RL40

BOTTOM OF RETAINING WALL	47.015	46.902	46.578	46.276	46.405	46.538	46.543	46.609	46.681	46.753	46.825	46.897	46.969	47.040	47.112	47.184	47.256	47.276	47.282	47.974
TOP OF RETAINING WALL	47.016	47.516	47.766	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
HEIGHT OF RETAINING WALL	0.001	0.615	1.188	1.724	1.595	1.462	1.457	1.391	1.319	1.247	1.175	1.103	1.031	0.960	0.888	0.816	0.744	0.724	0.718	0.026
EXISTING SURFACE LEVEL	46.446	46.500	46.500	46.500	46.500	46.500	46.500	46.795	47.050	47.316	47.556	47.830	48.116	48.499	48.173	48.000	48.087	48.174	48.189	48.113
BOTTOM OF WALL EASTING COORDINATES	295660.459	295670.396	295675.365	295680.014	295690.272	295705.179	295706.312	295720.086	295734.992	295749.899	295764.806	295779.713	295794.619	295809.526	295824.433	295839.339	295854.246	295858.441	295859.714	295864.184
BOTTOM OF WALL NORTHING COORDINATES	6251960.031	6251958.918	6251958.361	6251957.841	6251956.691	6251955.021	6251954.894	6251953.351	6251951.681	6251950.011	6251948.341	6251946.671	6251945.001	6251943.33	6251941.66	6251939.99	6251938.32	6251937.85	6251937.708	6251937.207
CHAINAGE	0.000	10.000	15.000	19.678	30.000	45.000	46.140	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	199.221	200.502	205.000

RETAINING WALL RW02 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

100mm on Original

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
RETAINING WALL
PROFILES
SHEET 2

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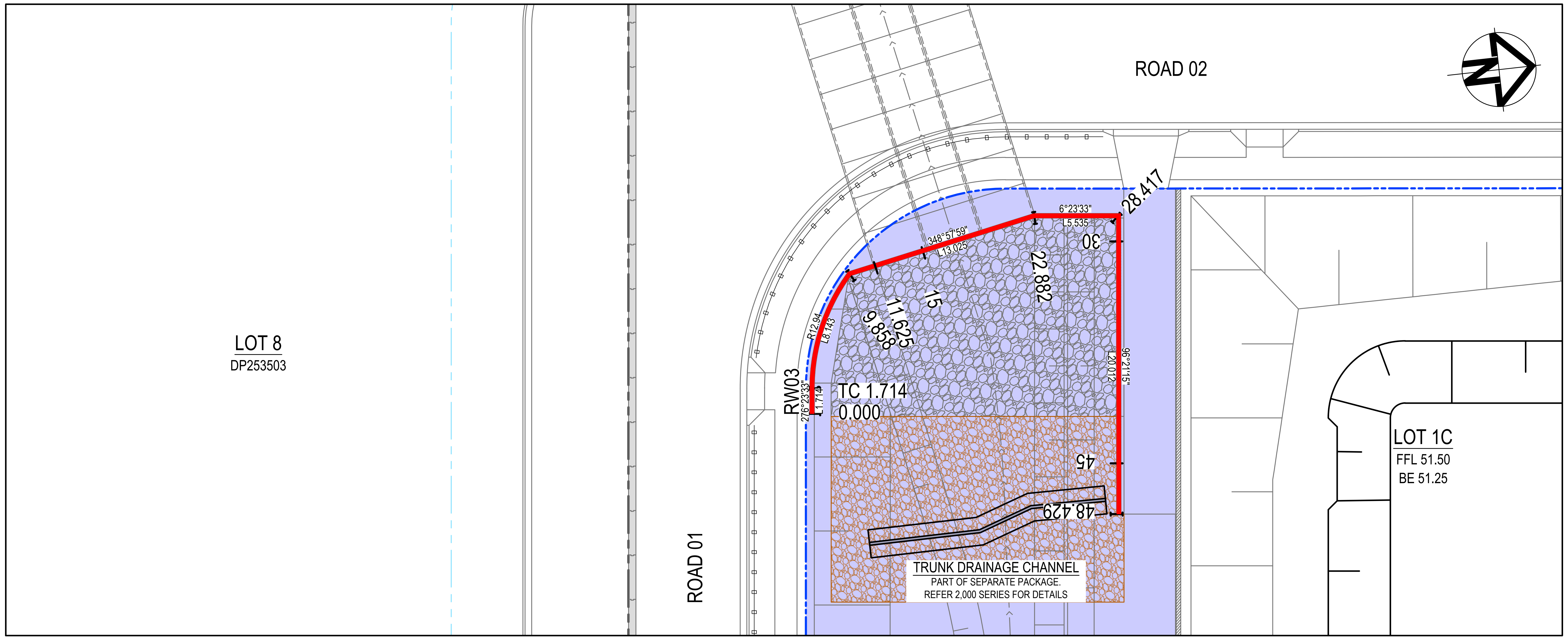
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1902
Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1902.dwg

LEGEND

—·—·—	EXISTING BOUNDARY
— · —	PROPOSED BOUNDARY
- - - -	EXISTING EASEMENT
🟩	PROPOSED FILL RETAINING WALL
🟥	PROPOSED CUT RETAINING WALL
▮WH	WEEP HOLE OUTLET

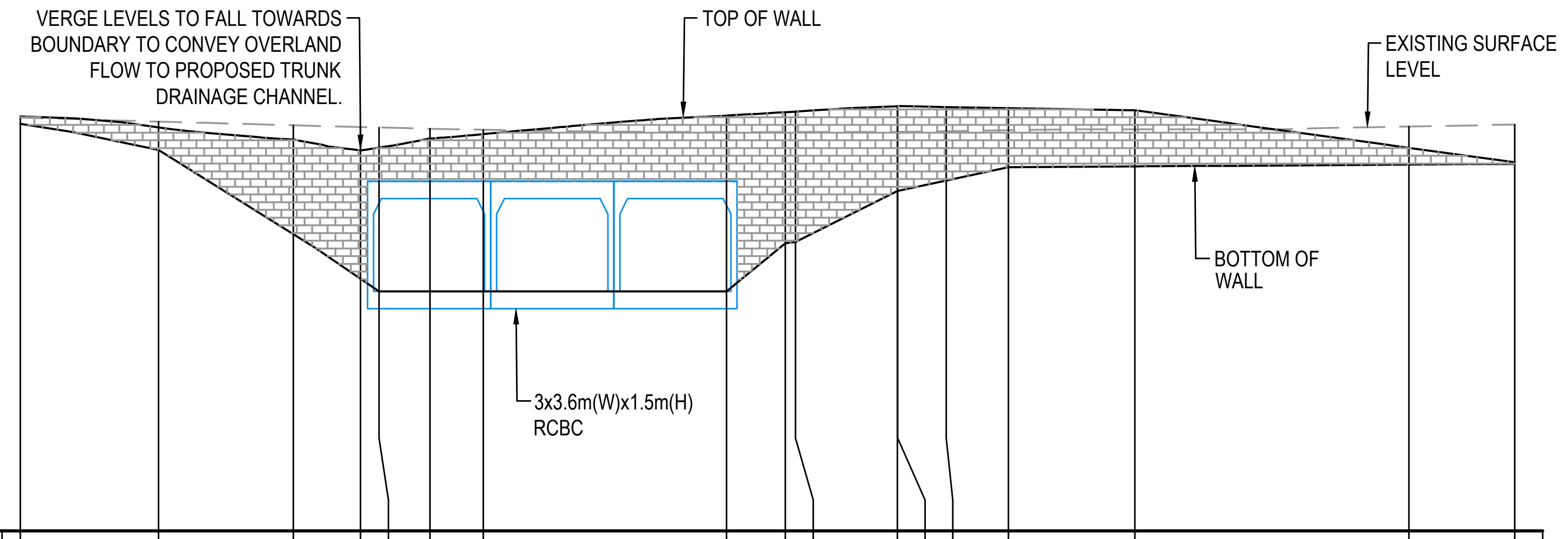


ROAD 02
LOT 8
DP253503
ROAD 01
RW03
TC 1.714
0.000
R12.94
L8.143
276°23'33"
L1.714
9.858
11.625
15
348°57'59"
L13.025
6°23'33"
L5.535
22.882
28.417
30
96°21'15"
L20.012
45
48.429
LOT 1C
FFL 51.50
BE 51.25

TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS

PLAN

SCALE 1:500



VERGE LEVELS TO FALL TOWARDS BOUNDARY TO CONVEY OVERLAND FLOW TO PROPOSED TRUNK DRAINAGE CHANNEL.
TOP OF WALL
EXISTING SURFACE LEVEL
BOTTOM OF WALL
3x3.6m(W)x1.5m(H) RCBC

Datum RL40

BOTTOM OF RETAINING WALL	46.591	46.168	44.802	44.081	43.877	43.877	43.877	43.877	44.656
TOP OF RETAINING WALL	46.706	46.53	46.334	46.159	46.203	46.351	46.422	46.722	46.777
HEIGHT OF RETAINING WALL	0.115	0.362	1.532	2.078	2.326	2.474	2.545	2.845	2.121
EXISTING SURFACE LEVEL	46.690	46.624	46.565	46.536	46.529	46.510	46.493	46.455	46.456
BOTTOM OF WALL EASTING COORDINATES	295672.859	295668.467	295664.634	295663.64	295663.524	295663.21	295662.878	295661.37	295661.582
BOTTOM OF WALL NORTHING COORDINATES	6251933.999	6251934.786	6251936.849	6251938.645	6251939.236	6251940.851	6251942.549	6251950.286	6251952.181
CHAINAGE	0.000	4.473	8.847	11.023	11.625	13.270	15.000	22.883	24.790

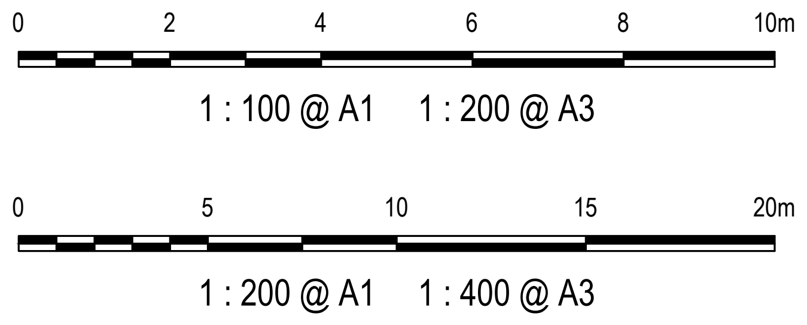
BOTTOM OF RETAINING WALL	44.674	45.499	45.500	45.669	45.885	45.901	45.928	45.940
TOP OF RETAINING WALL	46.787	46.872	46.875	46.861	46.844	46.809	46.2	45.965
HEIGHT OF RETAINING WALL	2.113	1.373	1.375	1.193	0.959	0.908	0.272	0.025
EXISTING SURFACE LEVEL	46.456	46.458	46.458	46.470	46.485	46.500	46.546	46.577
BOTTOM OF WALL EASTING COORDINATES	295661.619	295661.986	295661.996	295663.559	295665.566	295669.638	295678.467	295681.875
BOTTOM OF WALL NORTHING COORDINATES	6251952.505	6251955.785	6251955.785	6251955.61	6251955.387	6251954.934	6251953.95	6251953.571
CHAINAGE	25.116	28.416	28.427	30.000	32.019	36.116	45.000	48.429

RETAINING WALL RW03 LONGITUDINAL SECTION

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales



0
2
4
6
8
10m
1 : 100 @ A1   1 : 200 @ A3
0
5
10
15
20m
1 : 200 @ A1   1 : 400 @ A3

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
RETAINING WALL
PROFILES
SHEET 3

Civil Engineers and Project Managers
at&l
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ABN 96 130 882 405
Tel: 02 9439 1777
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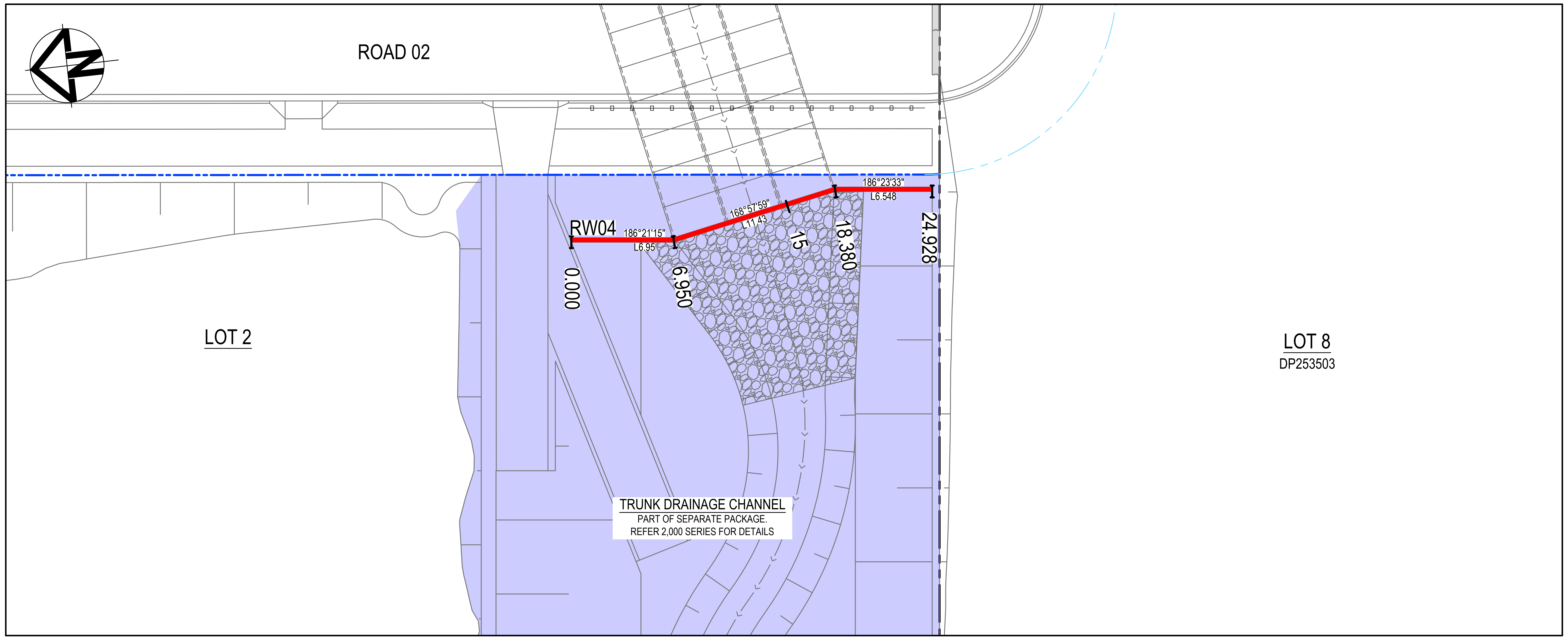
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1903
Issue
B

100mm on Original

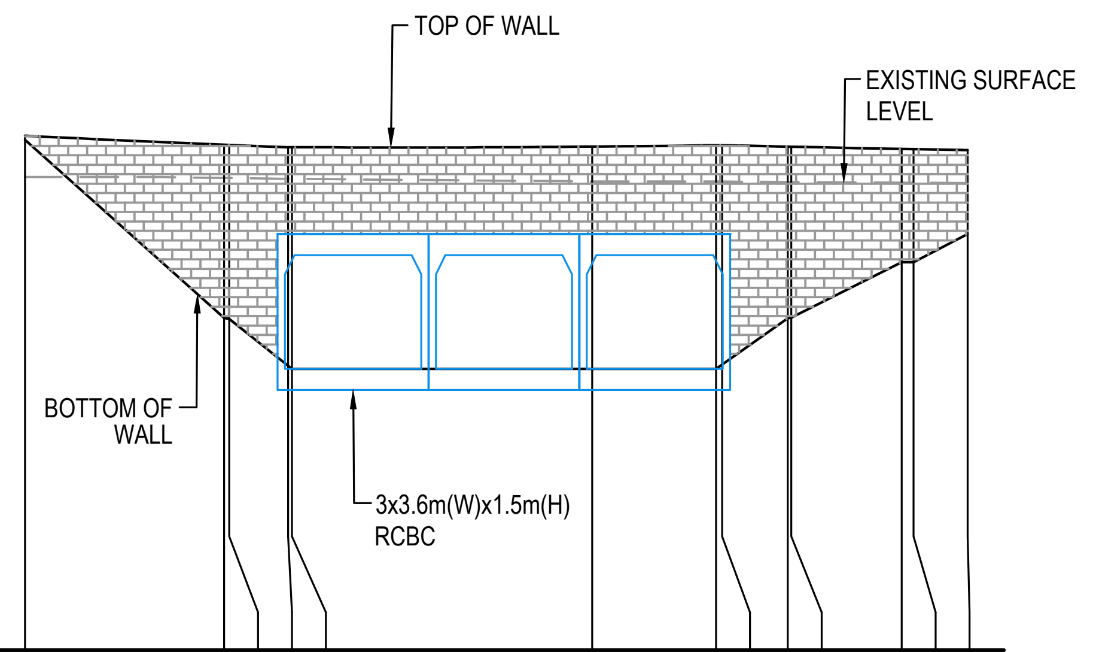
LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- EXISTING EASEMENT
- 🟩 PROPOSED FILL RETAINING WALL
- 🟥 PROPOSED CUT RETAINING WALL
- WH WEEP HOLE OUTLET


ROAD 02
LOT 2
LOT 8
DP253503
RW04
186°21'15"
L6.95
168°57'59"
L11.43
186°23'33"
L6.548
0.000
6.950
15
18.380
24.928
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE.
REFER 2,000 SERIES FOR DETAILS

PLAN

SCALE 1:200


TOP OF WALL
EXISTING SURFACE LEVEL
BOTTOM OF WALL
3x3.6m(W)x1.5m(H) RCBC

Datum RL40

BOTTOM OF RETAINING WALL	46.742	44.391	44.379	43.755	43.717	43.717	43.717	43.774	44.384	44.392	45.124	45.128	45.500
TOP OF RETAINING WALL	46.797	46.678	46.675	46.647	46.646	46.653	46.67	46.67	46.653	46.652	46.623	46.62	46.605
HEIGHT OF RETAINING WALL	0.055	2.286	2.296	2.892	2.929	2.937	2.953	2.897	2.269	2.260	1.498	1.492	1.106
EXISTING SURFACE LEVEL	46.250	46.238	46.237	46.227	46.226	46.194	46.192	46.192	46.186	46.186	46.177	46.175	46.171
BOTTOM OF WALL EASTING COORDINATES	295630.737	295630.155	295630.139	295629.97	295629.988	295631.509	295632.136	295632.149	295631.956	295631.945	295631.621	295631.585	295631.427
BOTTOM OF WALL NORTHING COORDINATES	6251951.139	6251945.912	6251945.77	6251944.221	6251944.128	6251936.33	6251933.116	6251932.956	6251931.232	6251931.134	6251928.238	6251927.924	6251926.505
CHAINAGE	0.000	5.259	5.402	6.960	7.055	15.000	18.275	18.437	20.172	20.270	23.184	23.500	24.928

RETAINING WALL RW04 LONGITUDINAL SECTION

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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

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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
RETAINING WALL
PROFILES
SHEET 4

Civil Engineers and Project Managers

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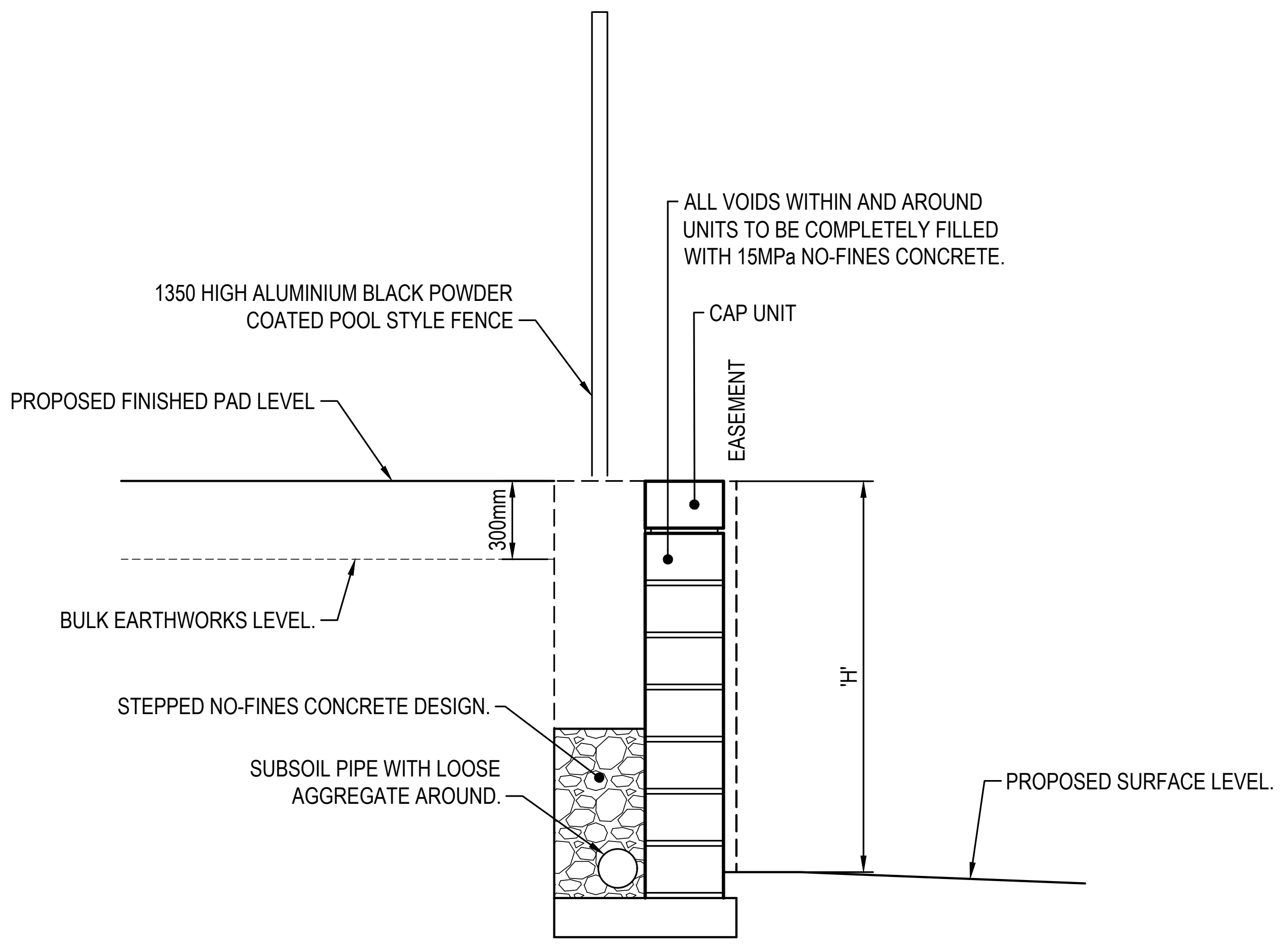
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1904

Issue
B

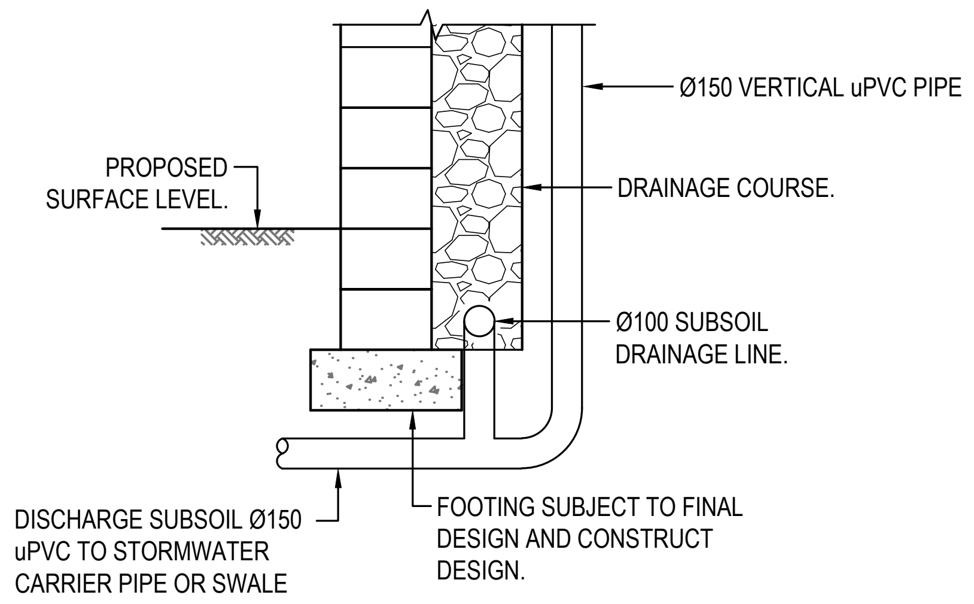
100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1904.dwg


ALL VOIDS WITHIN AND AROUND UNITS TO BE COMPLETELY FILLED WITH 15MPa NO-FINES CONCRETE.
1350 HIGH ALUMINIUM BLACK POWDER COATED POOL STYLE FENCE
CAP UNIT
EASEMENT
PROPOSED FINISHED PAD LEVEL
300mm
BULK EARTHWORKS LEVEL.
'H'
STEPPED NO-FINES CONCRETE DESIGN.
SUBSOIL PIPE WITH LOOSE AGGREGATE AROUND.
PROPOSED SURFACE LEVEL.

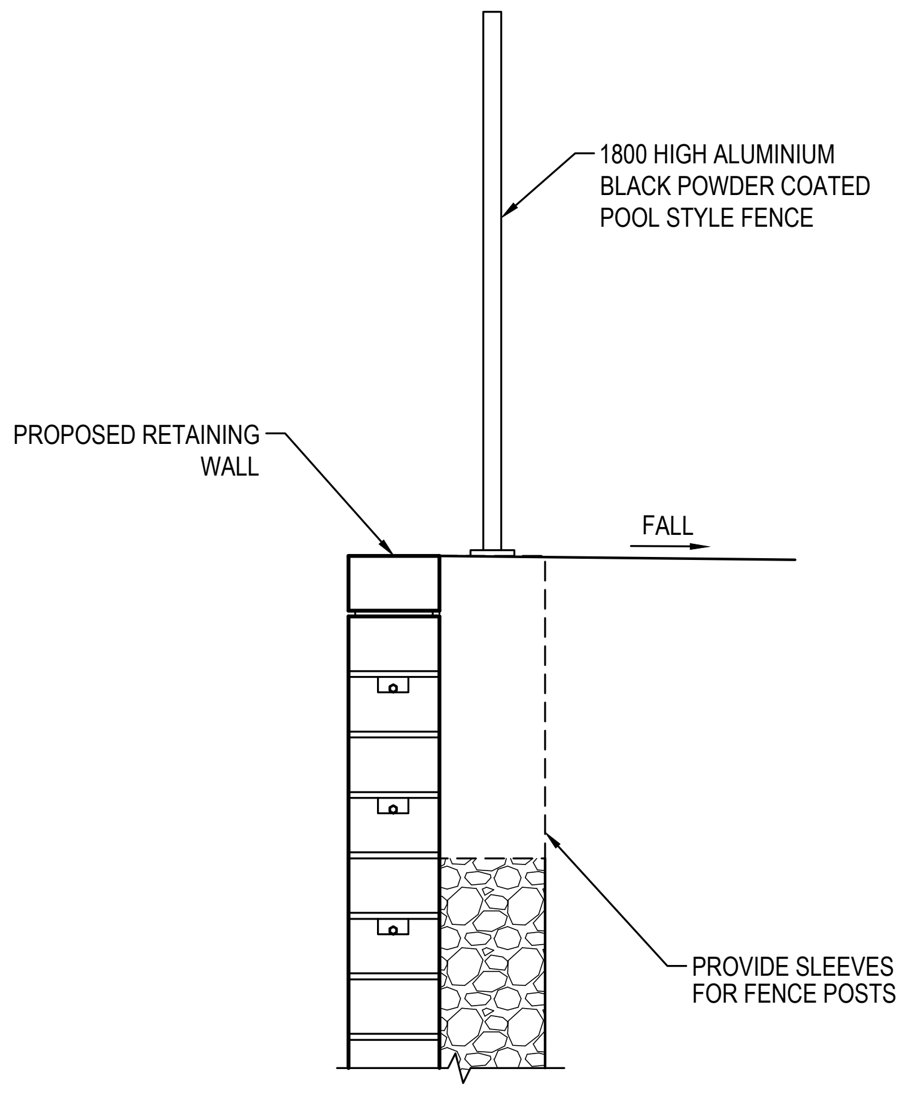
RETAINING WALL DETAIL

SCALE 1 : 25


Ø150 VERTICAL uPVC PIPE
PROPOSED SURFACE LEVEL.
DRAINAGE COURSE.
Ø100 SUBSOIL DRAINAGE LINE.
DISCHARGE SUBSOIL Ø150 uPVC TO STORMWATER CARRIER PIPE OR SWALE
FOOTING SUBJECT TO FINAL DESIGN AND CONSTRUCT DESIGN.

DETAIL 1 -

SCALE 1 : 25


1800 HIGH ALUMINIUM BLACK POWDER COATED POOL STYLE FENCE
PROPOSED RETAINING WALL
FALL
PROVIDE SLEEVES FOR FENCE POSTS

DETAIL 2 -

SCALE 1 : 25

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

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Client

ICON OCEANIA

Scales	1:25	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

RETAINING WALL DETAILS

Civil Engineers and Project Managers

at&l

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ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
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info@atl.net.au

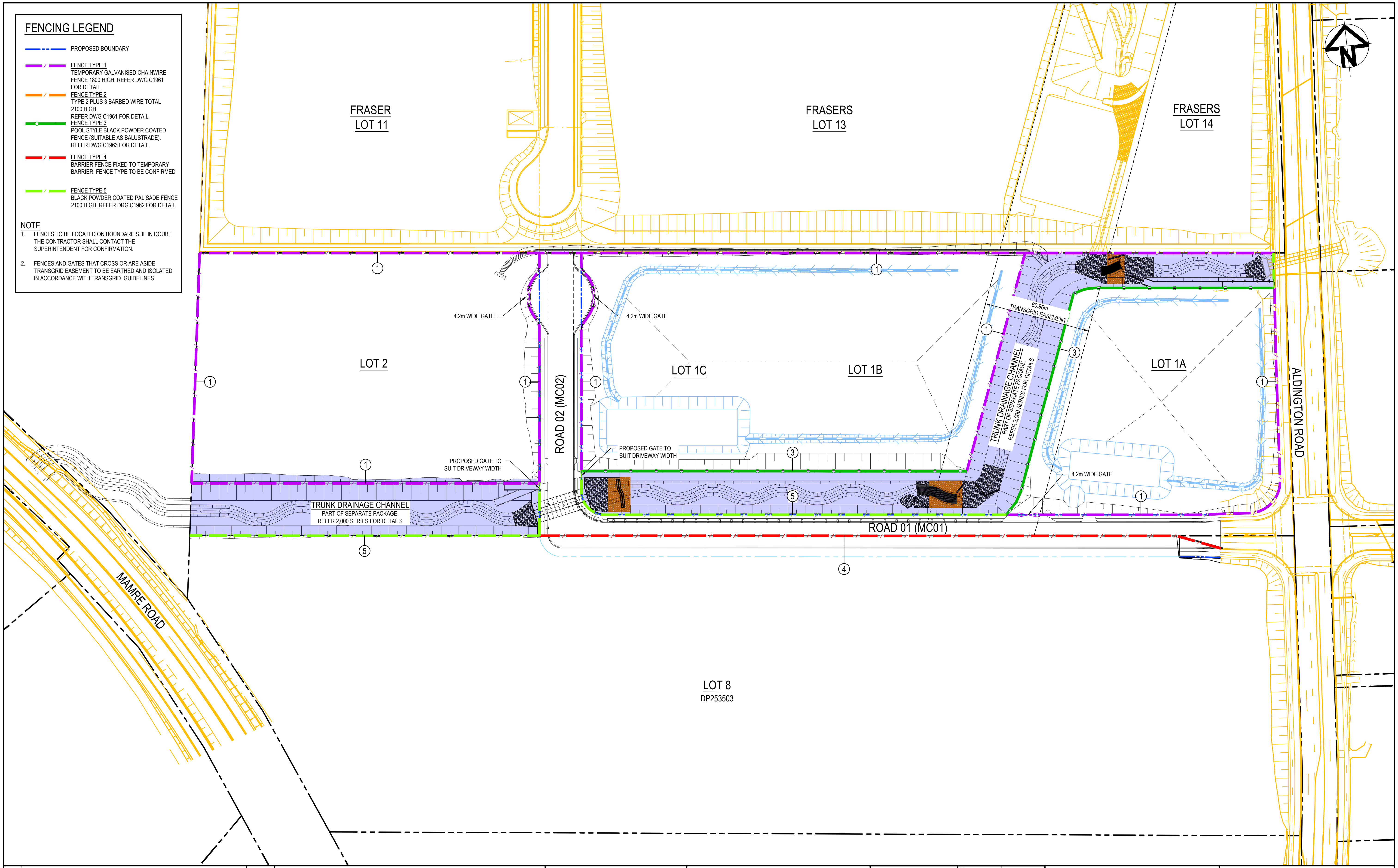
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C1905

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1905.dwg


N
FRASER
LOT 11
FRASERS
LOT 13
FRASERS
LOT 14
LOT 2
LOT 1C
LOT 1B
LOT 1A
LOT 8
DP253503
ROAD 02 (MC02)
ROAD 01 (MC01)
ALDINGTON ROAD
MAMRE ROAD
4.2m WIDE GATE
4.2m WIDE GATE
4.2m WIDE GATE
PROPOSED GATE TO SUIT DRIVEWAY WIDTH
PROPOSED GATE TO SUIT DRIVEWAY WIDTH
60.96m TRANSGRID EASEMENT
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE. REFER 2,000 SERIES FOR DETAILS
TRUNK DRAINAGE CHANNEL
PART OF SEPARATE PACKAGE. REFER 2,000 SERIES FOR DETAILS
①
③
④
⑤

FENCING LEGEND

🟦	PROPOSED BOUNDARY
🟪	FENCE TYPE 1 TEMPORARY GALVANISED CHAINWIRE FENCE 1800 HIGH. REFER DWG C1961 FOR DETAIL
🟧	FENCE TYPE 2 TYPE 2 PLUS 3 BARBED WIRE TOTAL 2100 HIGH. REFER DWG C1961 FOR DETAIL
🟩	FENCE TYPE 3 POOL STYLE BLACK POWDER COATED FENCE (SUITABLE AS BALUSTRADE). REFER DWG C1963 FOR DETAIL
🟥	FENCE TYPE 4 BARRIER FENCE FIXED TO TEMPORARY BARRIER. FENCE TYPE TO BE CONFIRMED
🟩	FENCE TYPE 5 BLACK POWDER COATED PALISADE FENCE 2100 HIGH. REFER DRG C1962 FOR DETAIL

NOTE

1. FENCES TO BE LOCATED ON BOUNDARIES. IF IN DOUBT THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT FOR CONFIRMATION.
2. FENCES AND GATES THAT CROSS OR ARE ASIDE TRANSGRID EASEMENT TO BE EARTHED AND ISOLATED IN ACCORDANCE WITH TRANSGRID GUIDELINES

Issue	Description	Date
C	ISSUED FOR APPROVAL	02-09-25
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1:1000	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
PROPOSED
FENCE PLAN

Civil Engineers and Project Managers
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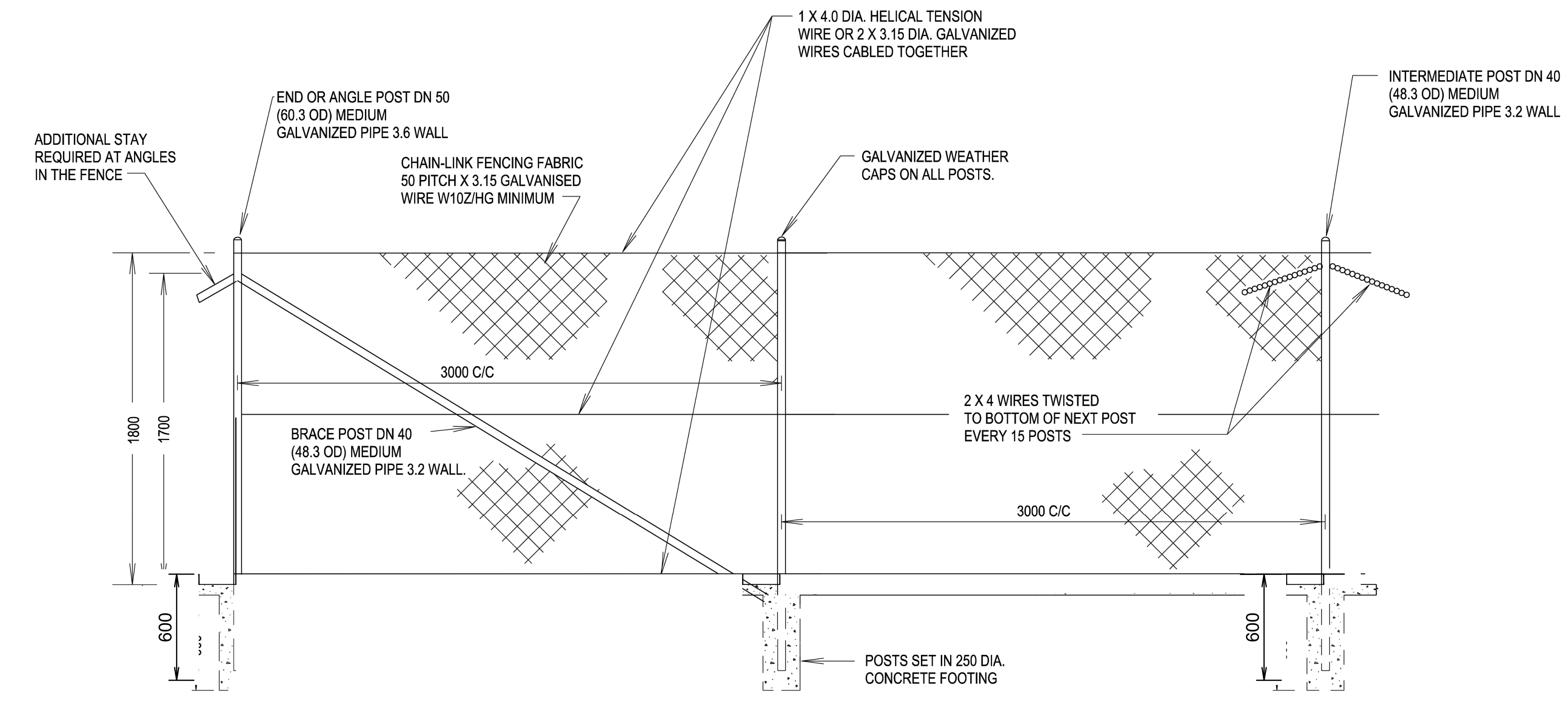
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

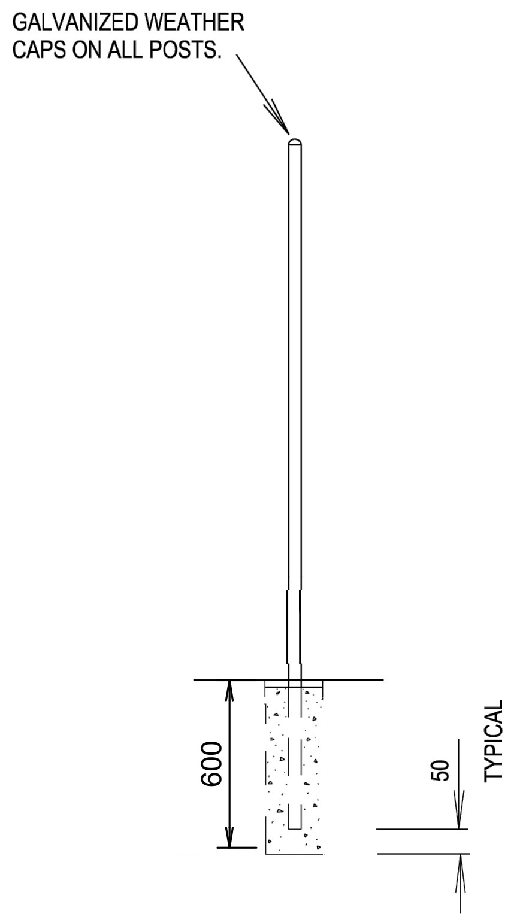
A1

Project - Drawing No.
21-860-C1960

Issue
C


1 X 4.0 DIA. HELICAL TENSION WIRE OR 2 X 3.15 DIA. GALVANIZED WIRES CABLED TOGETHER
END OR ANGLE POST DN 50 (60.3 OD) MEDIUM GALVANIZED PIPE 3.6 WALL
ADDITIONAL STAY REQUIRED AT ANGLES IN THE FENCE
CHAIN-LINK FENCING FABRIC 50 PITCH X 3.15 GALVANISED WIRE W10Z/HG MINIMUM
GALVANIZED WEATHER CAPS ON ALL POSTS.
INTERMEDIATE POST DN 40 (48.3 OD) MEDIUM GALVANIZED PIPE 3.2 WALL
3000 C/C
1800
1700
BRACE POST DN 40 (48.3 OD) MEDIUM GALVANIZED PIPE 3.2 WALL.
2 X 4 WIRES TWISTED TO BOTTOM OF NEXT POST EVERY 15 POSTS
3000 C/C
600
600
POSTS SET IN 250 DIA. CONCRETE FOOTING

FENCE PANEL


GALVANIZED WEATHER CAPS ON ALL POSTS.
600
50
TYPICAL

SECTION THROUGH INTERMEDIATE POST

RESTRICTED AREA

AUTHORISED VEHICLES ONLY

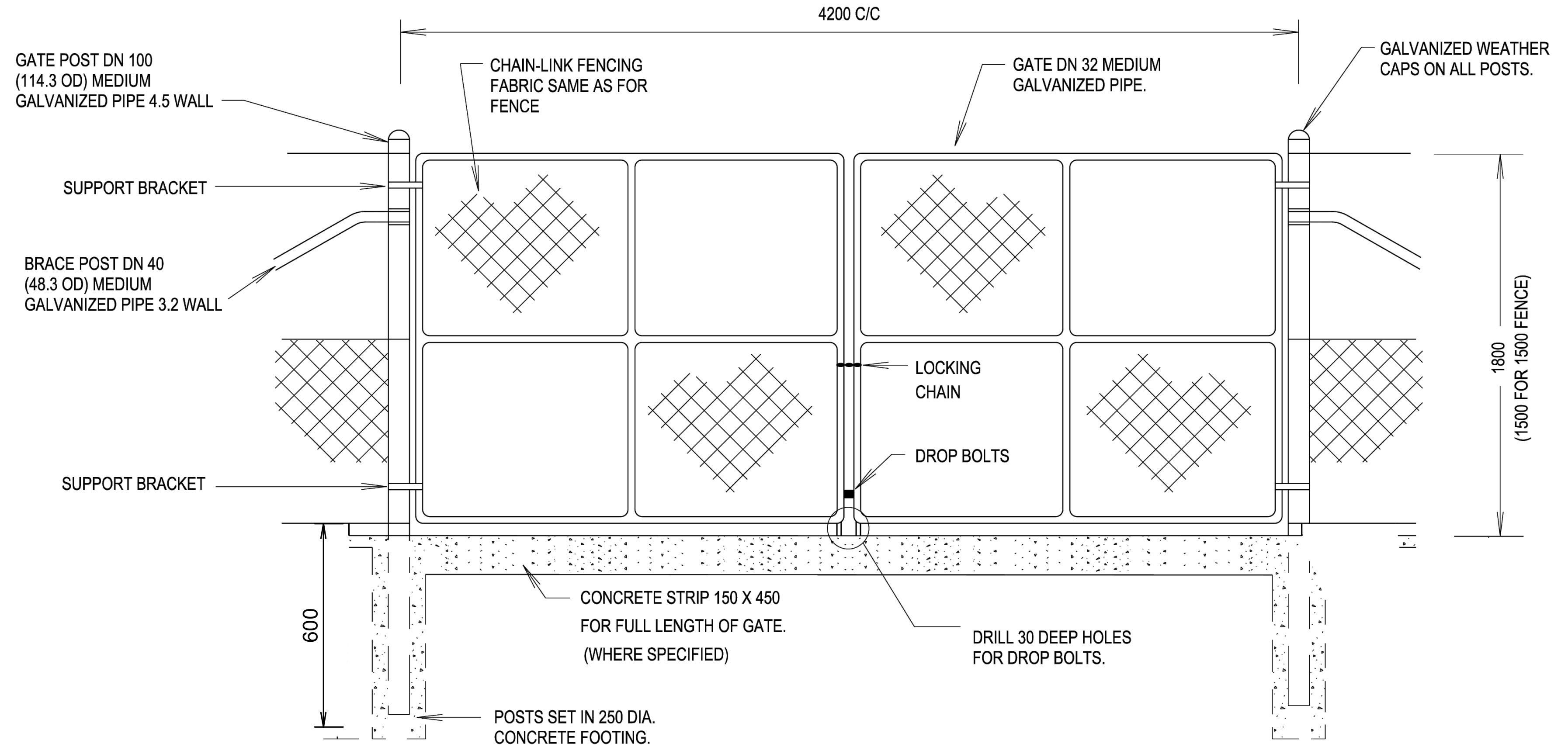
PAST THIS POINT

900 x 600 SIGN FOR ALL GATES

NTS

NOTES:

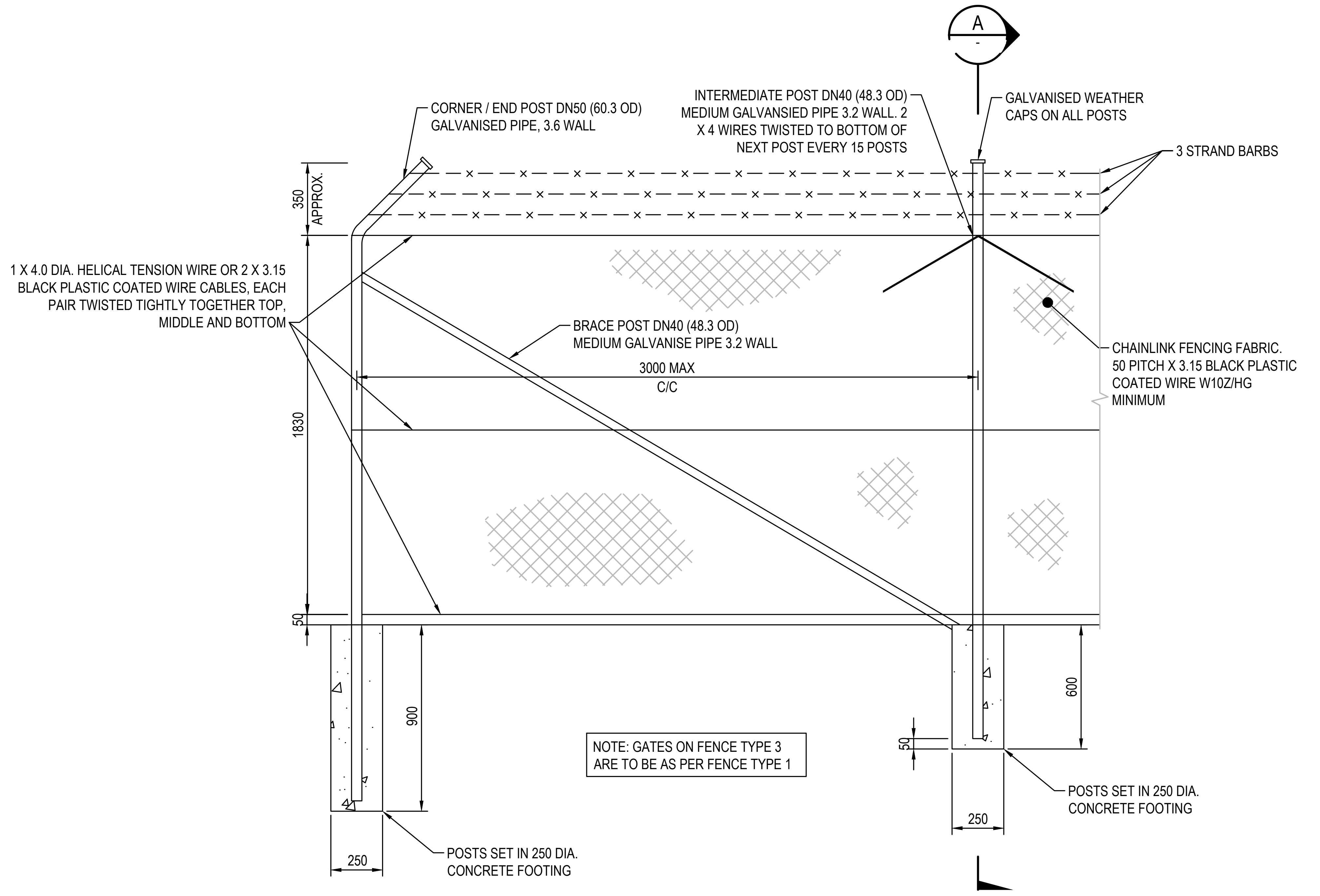
1. ALL CONCRETE TO BE 20 MPa.
2. JOINTS TO BE WELDED AND PAINTED WITH ZINC RICH PRIMER.
3. FENCING MATERIALS ARE TO BE IN ACCORDANCE WITH THE SPECIFICATION - R201.
4. BOUNDARY SIGNS TO BE SUPPLIED AND FIXED AS SHOWN ON DS2014/005992.
5. SPECIAL REQUIREMENTS MAY APPLY TO THE ERECTION PROCEDURES FOR FENCES INSTALLED NEAR HIGH VOLTAGE TRANSMISSION LINES. THE RELEVANT ELECTRICITY AUTHORITY SHOULD BE CONTACTED PRIOR TO THE INSTALLATION OF THE FENCE.


4200 C/C
GATE POST DN 100 (114.3 OD) MEDIUM GALVANIZED PIPE 4.5 WALL
CHAIN-LINK FENCING FABRIC SAME AS FOR FENCE
GATE DN 32 MEDIUM GALVANIZED PIPE.
GALVANIZED WEATHER CAPS ON ALL POSTS.
SUPPORT BRACKET
BRACE POST DN 40 (48.3 OD) MEDIUM GALVANIZED PIPE 3.2 WALL
LOCKING CHAIN
DROP BOLTS
1800 (1500 FOR 1500 FENCE)
SUPPORT BRACKET
600
CONCRETE STRIP 150 X 450 FOR FULL LENGTH OF GATE. (WHERE SPECIFIED)
DRILL 30 DEEP HOLES FOR DROP BOLTS.
POSTS SET IN 250 DIA. CONCRETE FOOTING.

1800 HIGH CHAINWIRE GALVANISED FENCE

FENCE TYPE 1

NTS

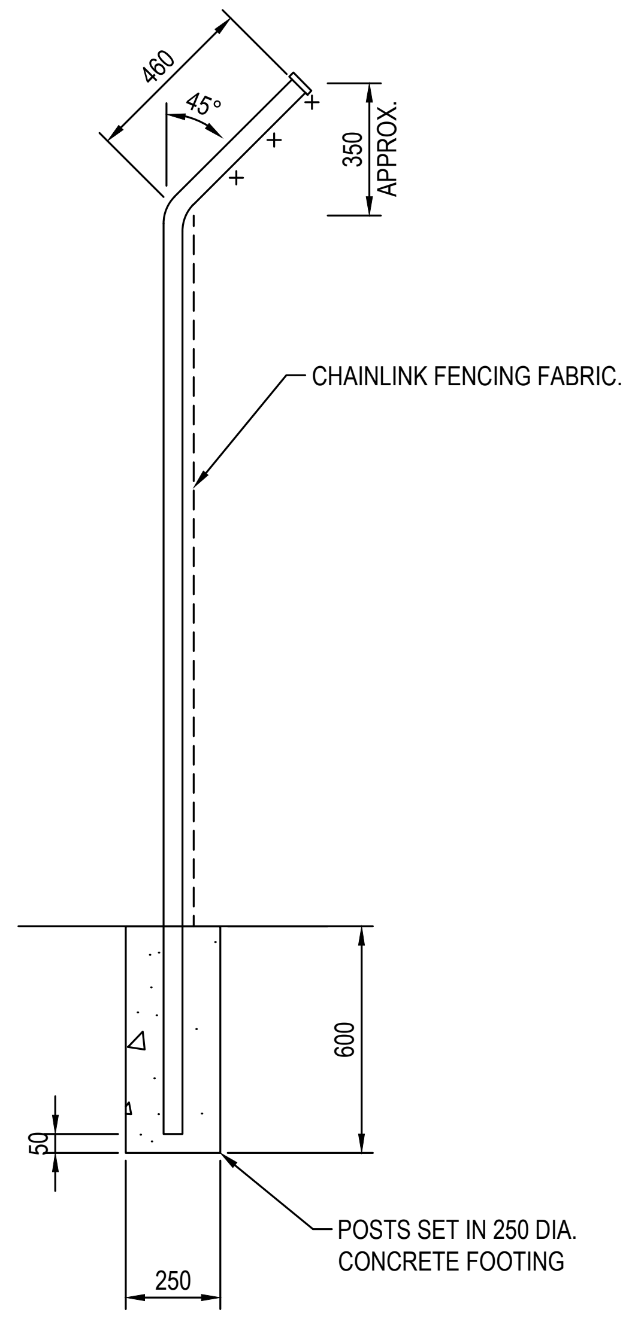

A
-
CORNER / END POST DN50 (60.3 OD) GALVANISED PIPE, 3.6 WALL
INTERMEDIATE POST DN40 (48.3 OD) MEDIUM GALVANSIED PIPE 3.2 WALL. 2 X 4 WIRES TWISTED TO BOTTOM OF NEXT POST EVERY 15 POSTS
GALVANISED WEATHER CAPS ON ALL POSTS
3 STRAND BARBS
350 APPROX.
1 X 4.0 DIA. HELICAL TENSION WIRE OR 2 X 3.15 BLACK PLASTIC COATED WIRE CABLES, EACH PAIR TWISTED TIGHTLY TOGETHER TOP, MIDDLE AND BOTTOM
BRACE POST DN40 (48.3 OD) MEDIUM GALVANISE PIPE 3.2 WALL
3000 MAX C/C
CHAINLINK FENCING FABRIC. 50 PITCH X 3.15 BLACK PLASTIC COATED WIRE W10Z/HG MINIMUM
1830
50
900
600
50
250
250
POSTS SET IN 250 DIA. CONCRETE FOOTING
POSTS SET IN 250 DIA. CONCRETE FOOTING

NOTE: GATES ON FENCE TYPE 3 ARE TO BE AS PER FENCE TYPE 1

FENCE TYPE 2

PLASTIC COATED CHAINWIRE BOUNDARY FENCE

1 : 20


460
45°
350 APPROX.
CHAINLINK FENCING FABRIC.
600
50
250
POSTS SET IN 250 DIA. CONCRETE FOOTING

DETAIL A

1 : 20

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

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Client

ICON OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title

FENCING DETAILS
SHEET 1

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Tel: 02 9439 1777
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www.atl.net.au
info@atl.net.au

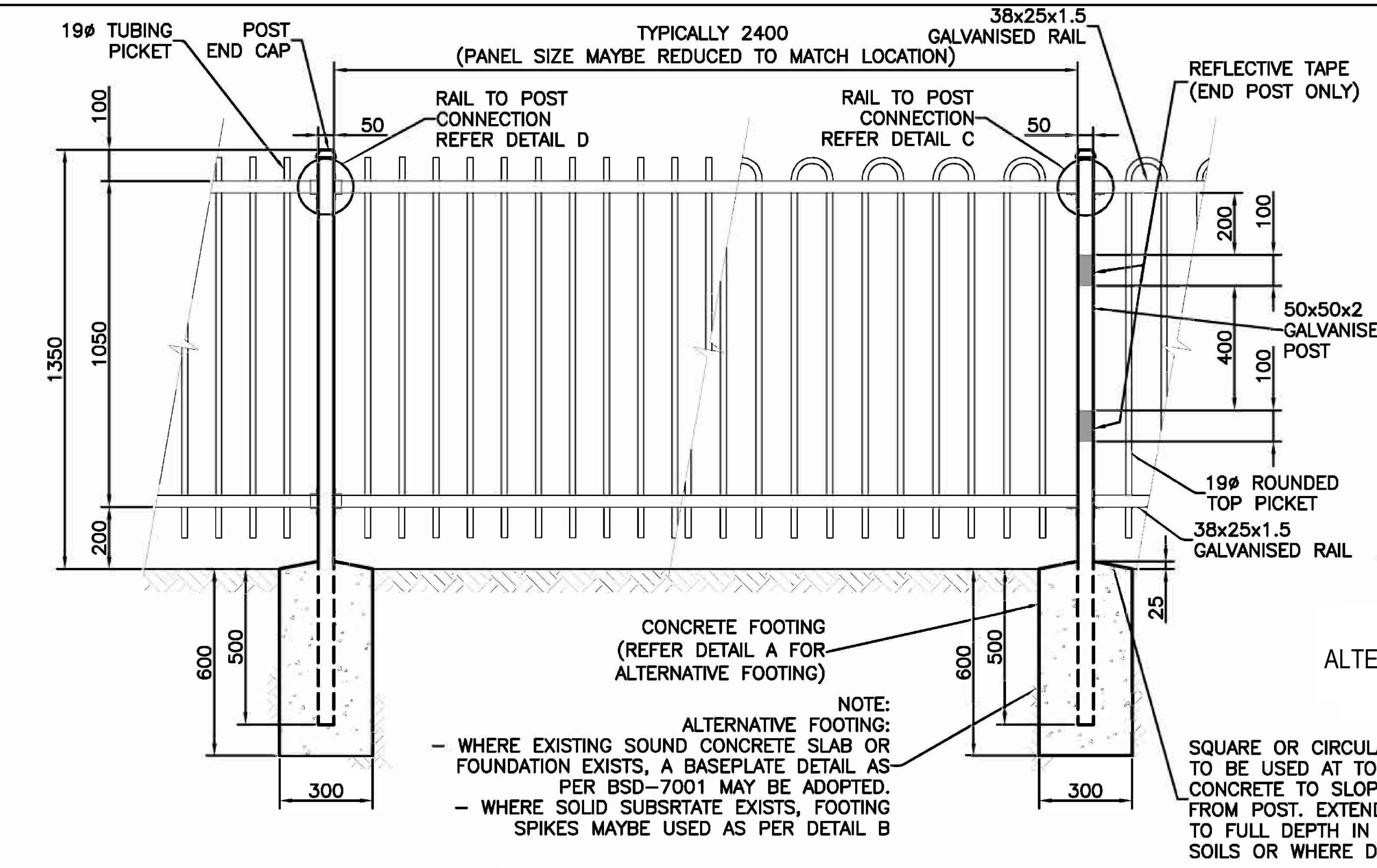
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

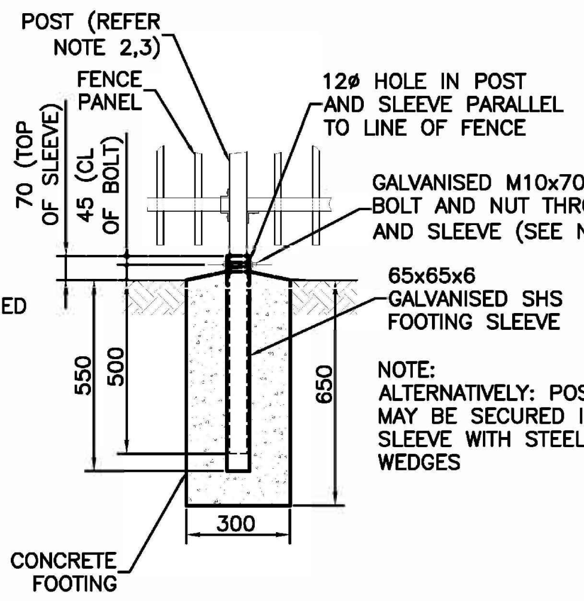
Project - Drawing No.
21-860-C1961

Issue
B

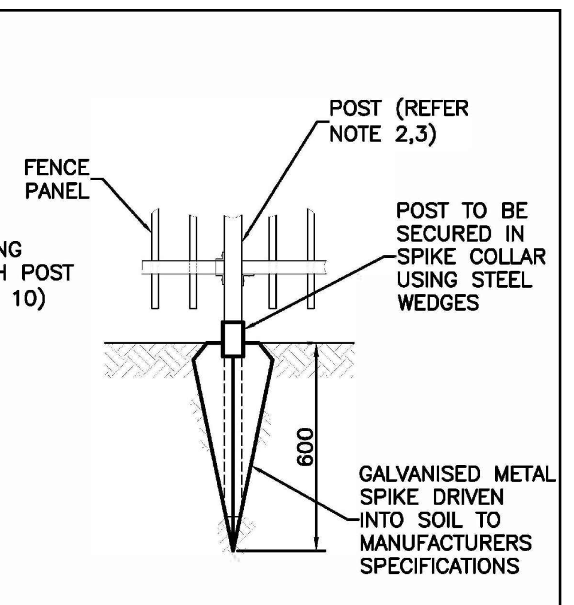
F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1961.dwg


19ø TUBING PICKET
POST END CAP
TYPICALLY 2400
(PANEL SIZE MAYBE REDUCED TO MATCH LOCATION)
38x25x1.5 GALVANISED RAIL
REFLECTIVE TAPE (END POST ONLY)
RAIL TO POST CONNECTION REFER DETAIL D
RAIL TO POST CONNECTION REFER DETAIL C
50
50
100
1350
1050
200
200
100
400
100
50x50x2 GALVANISED POST
19ø ROUNDED TOP PICKET
38x25x1.5 GALVANISED RAIL
25
600
500
300
600
500
300
CONCRETE FOOTING (REFER DETAIL A FOR ALTERNATIVE FOOTING)
NOTE:
ALTERNATIVE FOOTING:
– WHERE EXISTING SOUND CONCRETE SLAB OR FOUNDATION EXISTS, A BASEPLATE DETAIL AS PER BSD–7001 MAY BE ADOPTED.
– WHERE SOLID SUBSRTATE EXISTS, FOOTING SPIKES MAYBE USED AS PER DETAIL B
SQUARE OR CIRCULAR FORMWORK TO BE USED AT TOP OF FOOTING. CONCRETE TO SLOPE 25 AWAY FROM POST. EXTEND FORMWORK TO FULL DEPTH IN COLLAPSIBLE SOILS OR WHERE DIRECTED.

TYPICAL SECTION
NTS


POST (REFER NOTE 2,3)
FENCE PANEL
12ø HOLE IN POST AND SLEEVE PARALLEL TO LINE OF FENCE
70 (TOP OF SLEEVE)
45 (CL OF BOLT)
GALVANISED M10x70 LONG BOLT AND NUT THROUGH POST AND SLEEVE (SEE NOTE 10)
65x65x6 GALVANISED SHS FOOTING SLEEVE
550
500
650
300
NOTE:
ALTERNATIVELY: POST MAY BE SECURED IN SLEEVE WITH STEEL WEDGES
CONCRETE FOOTING

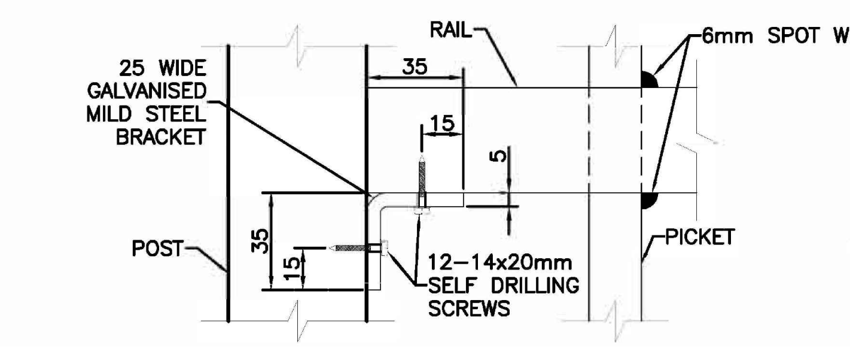
DETAIL A
ALTERNATIVE FOOTING DETAIL FOOTING SLEEVE
NTS


FENCE PANEL
POST (REFER NOTE 2,3)
POST TO BE SECURED IN SPIKE COLLAR USING STEEL WEDGES
600
GALVANISED METAL SPIKE DRIVEN INTO SOIL TO MANUFACTURERS SPECIFICATIONS

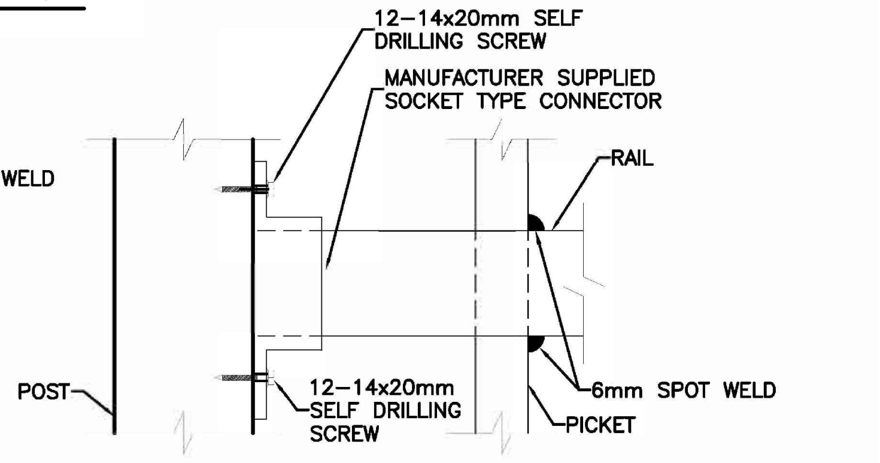
DETAIL B

NOTES:

1. THIS STANDARD IS NOT FOR USE IN A MARINE ENVIRONMENT. THE MARINE ENVIRONMENT COULD EXTEND UP TO 1 km FROM THE FORESHORE.
2. GATE, END AND INTERMEDIATE POSTS TO BE 50x50x2 GALVANISED STEEL SECTION TO AS 1163.
3. FENCE RAILS TO BE 38x25x1.5 GALVANISED STEEL SECTION TO AS 1163.
4. PANELS TO BE FIXED TO POSTS USING MANUFACTURER SUPPLIED SOCKET CONNECTORS OR 25 WIDE 35x35x2 GALVANISED MILD STEEL 'L' BRACKETS. BOTH CONNECTORS TO BE ATTACHED WITH GALVANISED 12–14x20mm HEXAGON HEAD SELF DRILLING (TEK) SCREWS.
5. PANELS TO BE 2400x1050 WITH 19 DIAMETER PICKETS, EITHER STRAIGHT TUBULAR OR ROUNDED TOP STYLE.
6. PICKETS TO PASS THROUGH TOP AND BOTTOM RAIL AND BE SECURED TO TOP AND UNDERSIDE OF RAIL WITH 6mm SPOT WELD.
7. HOT DIP GALVANISING: FERROUS OPEN SECTIONS TO AS 4791, FERROUS HOLLOW SECTIONS TO AS 4792.
8. ALL CONCRETE TO BE GRADE N25.
9. POSTS ARE TO BE VERTICAL.
10. POST SPIKES, WHERE USED, ARE TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
11. WHERE SLEEVES OR POST SPIKES ARE USED, POSTS ARE TO BE SECURED WITH BOLTS AS SHOWN OR STEEL WEDGES.
12. NUTS (WHERE USED) TO BE SPOT WELDED TO BOLTS AS AN ANTI–THEFT DETERRENT.
13. RAKED PANELS ARE AVAILABLE FOR SLOPES UP TO 1 IN 5.
14. THESE FENCES ARE INTENDED AS A PEDESTRIAN BARRIER AND ARE NOT TO BE USED IN SITUATIONS WHERE MOTOR VEHICLES REQUIRE RESTRAINT.
15. STEEL WORK TO BE POWDER COATED TO AS 4506 TO MATCH COLOUR CO–ORDINATION IN THE AREA. COLOUR FOR TRAFFIC APPLICATIONS TO BE EITHER BCC CORPORATE COLOUR PALETTE "GREY 3" (AS 2700–1996 "N65 GRAPHITE GREY" EQUIV.), "BLUE 3" (AS 2700S–1996 "B62 MIDNIGHT BLUE" EQUIV.), "GREEN 1" (AS 2700–1996 "G12 HOLLY" EQUIV.) OR BLACK (AS 2700–1996 "N61 BLACK" EQUIV.).
16. 100mm WIDE REFLECTIVE TAPE TO BE APPLIED TO END POSTS WHEREVEHICLE TRAFFIC CONFLICT MAY OCCUR.
17. DIMENSIONS IN MILLIMETRES (UNO).


RAIL
6mm SPOT WELD
25 WIDE GALVANISED MILD STEEL BRACKET
35
15
5
POST
35
15
12–14x20mm SELF DRILLING SCREWS
PICKET

DETAIL C
RAIL TO POST CONNECTION OPTION 1
NTS


12–14x20mm SELF DRILLING SCREW
MANUFACTURER SUPPLIED SOCKET TYPE CONNECTOR
RAIL
POST
12–14x20mm SELF DRILLING SCREW
6mm SPOT WELD
PICKET

DETAIL D
RAIL TO POST CONNECTION OPTION 2
NTS

1350 HIGH GALVANISED STEEL BLACK POWDER COATED POOL STYLE FENCE
FENCE TYPE 3
NTS

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

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Client
ICON
OCEANIA

Scales	NTS	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
FENCING DETAILS
SHEET 2

Civil Engineers and Project Managers
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North Sydney NSW 2060
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Fax: 02 9923 1055
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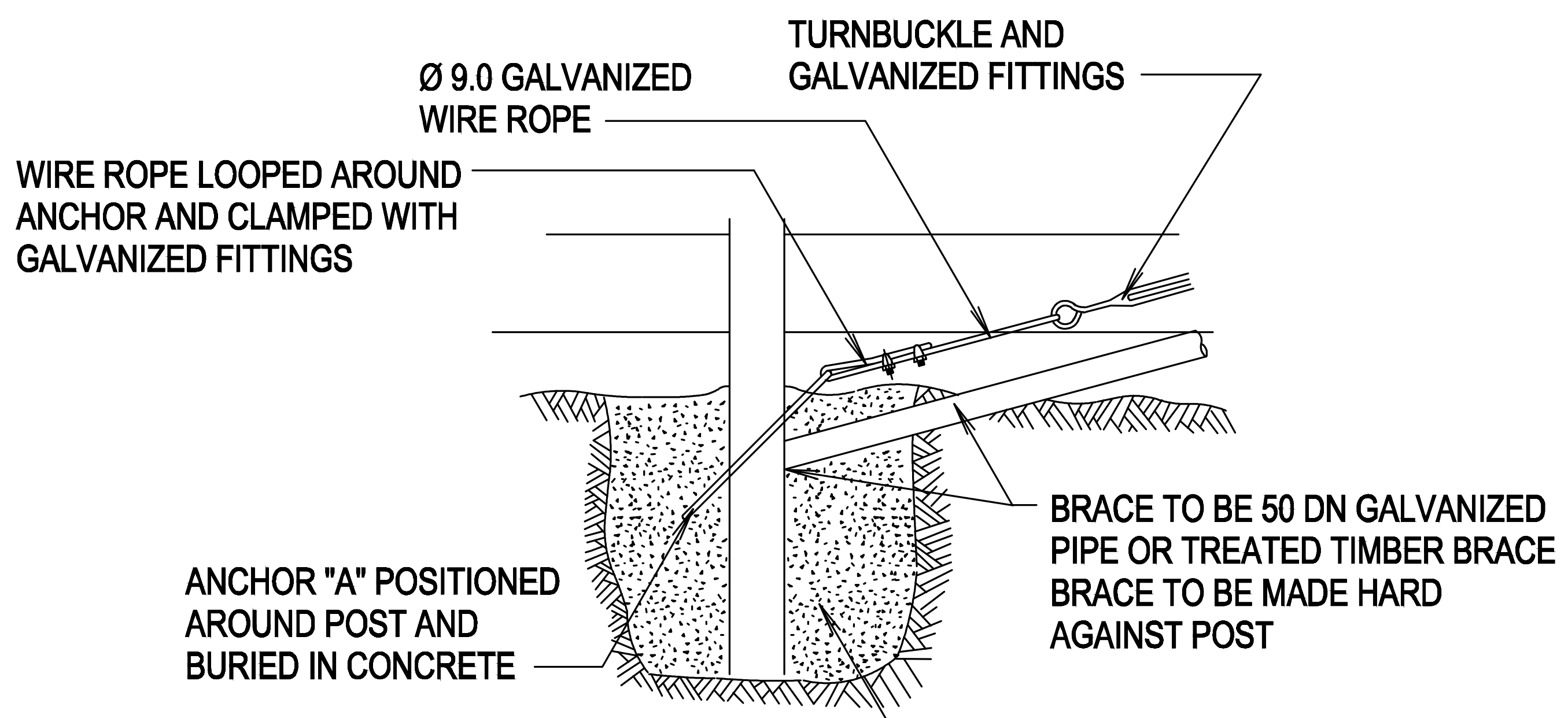
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

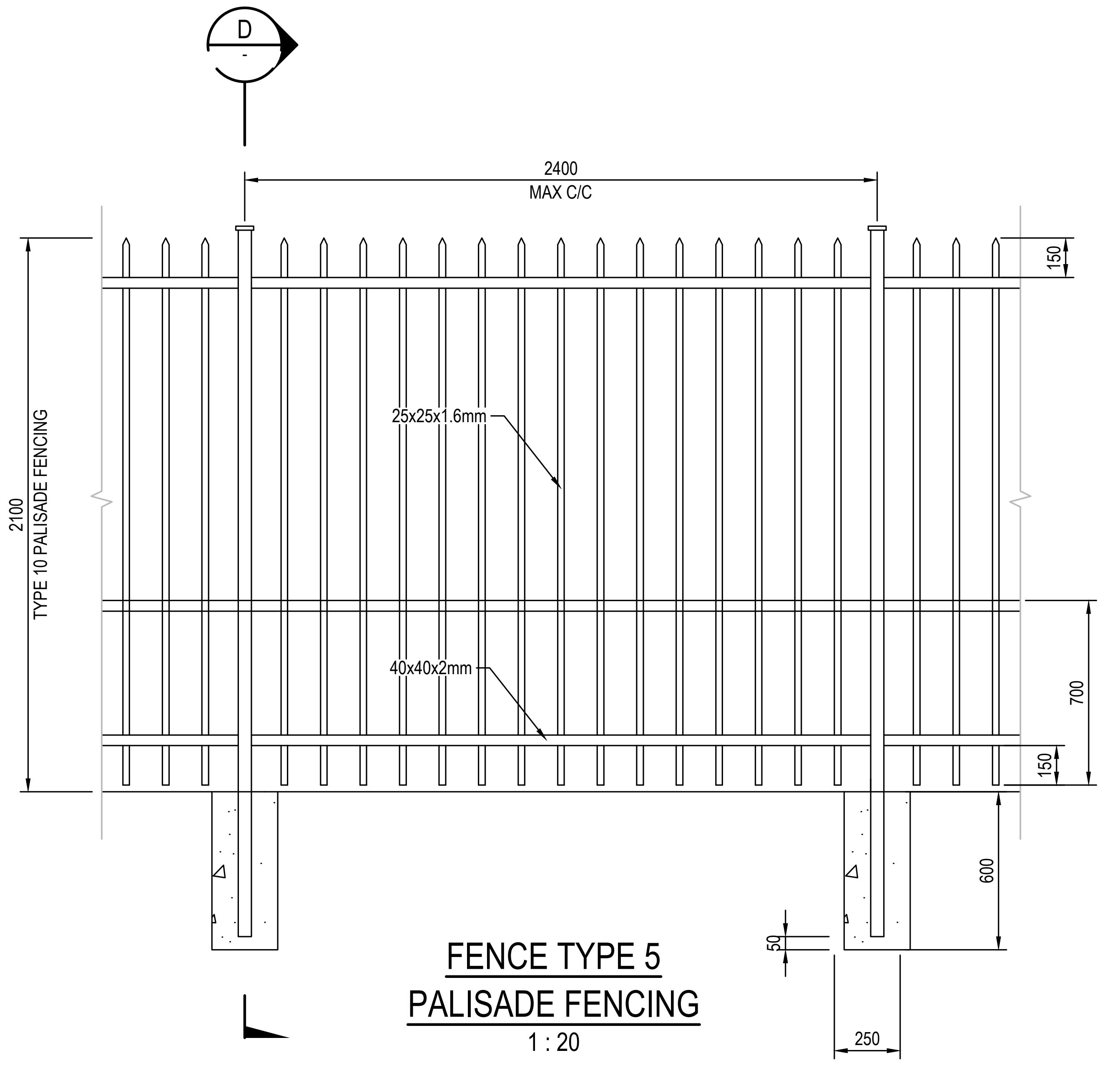
Project - Drawing No.
21-860-C1962

Issue
B

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\1000_INFRASTRUCTURE\21-860-C1962.dwg

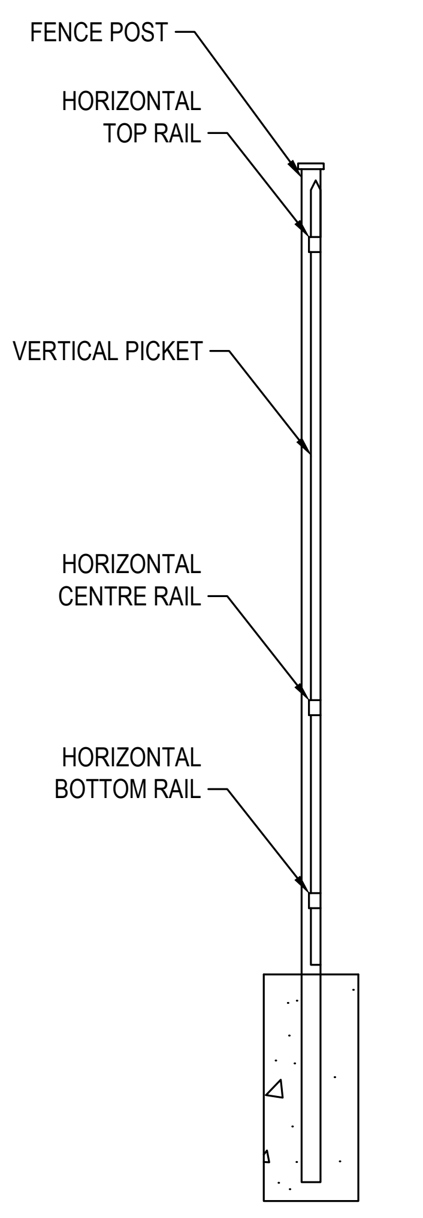

Ø 9.0 GALVANIZED WIRE ROPE
TURNBUCKLE AND GALVANIZED FITTINGS
WIRE ROPE LOOPED AROUND ANCHOR AND CLAMPED WITH GALVANIZED FITTINGS
BRACE TO BE 50 DN GALVANIZED PIPE OR TREATED TIMBER BRACE BRACE TO BE MADE HARD AGAINST POST
ANCHOR "A" POSITIONED AROUND POST AND BURIED IN CONCRETE
500 X 500
20 MPa
CONCRETE FOOTING

DETAIL OF WIRE ROPE CONNECTION


D
-
2400
MAX C/C
2100
TYPE 10 PALISADE FENCING
25x25x1.6mm
40x40x2mm
150
700
150
600
50
250

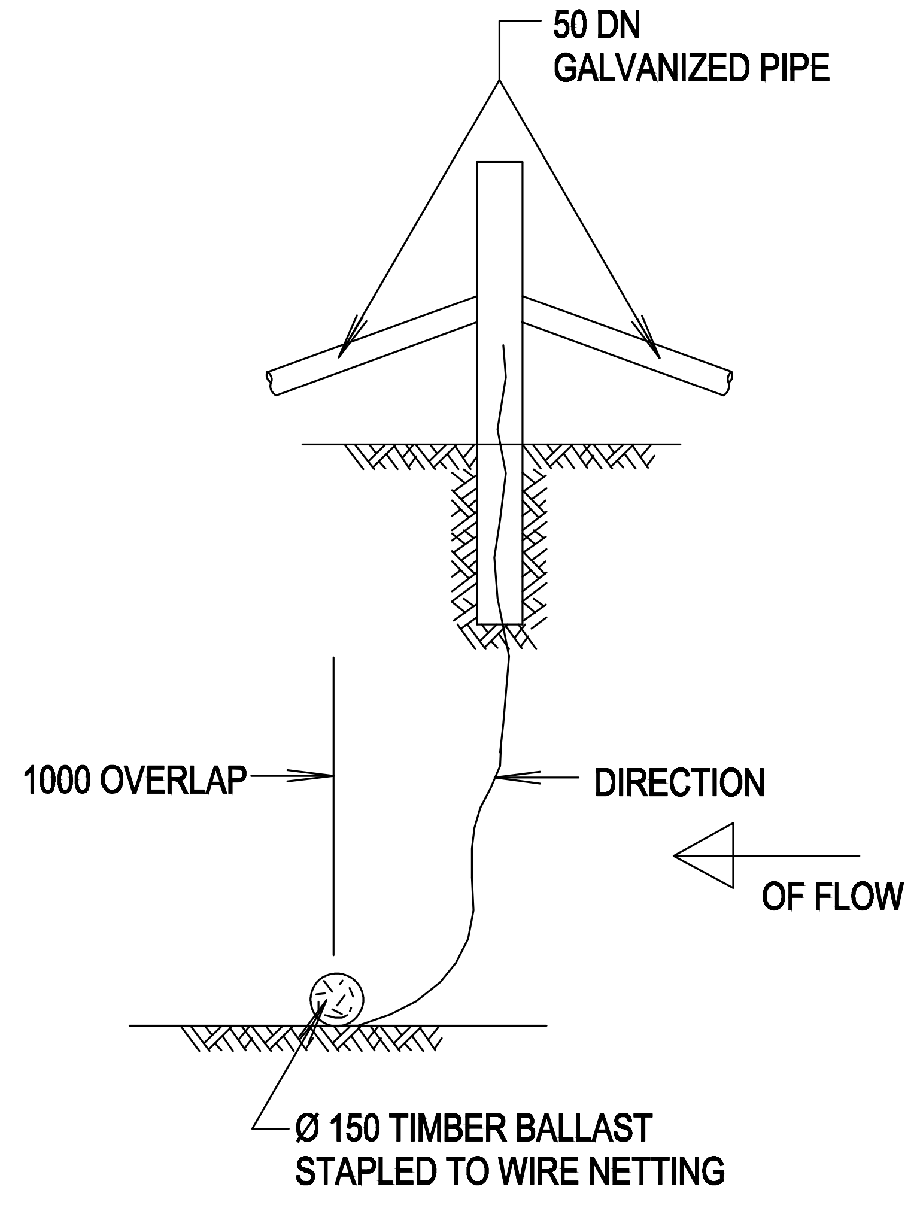
FENCE TYPE 5 PALISADE FENCING

1 : 20


FENCE POST
HORIZONTAL TOP RAIL
VERTICAL PICKET
HORIZONTAL CENTRE RAIL
HORIZONTAL BOTTOM RAIL

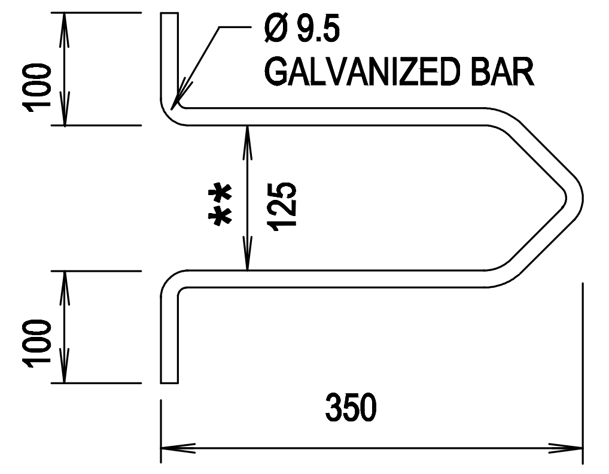
DETAIL D

1 : 20


50 DN GALVANIZED PIPE
1000 OVERLAP
DIRECTION
OF FLOW
Ø 150 TIMBER BALLAST STAPLED TO WIRE NETTING

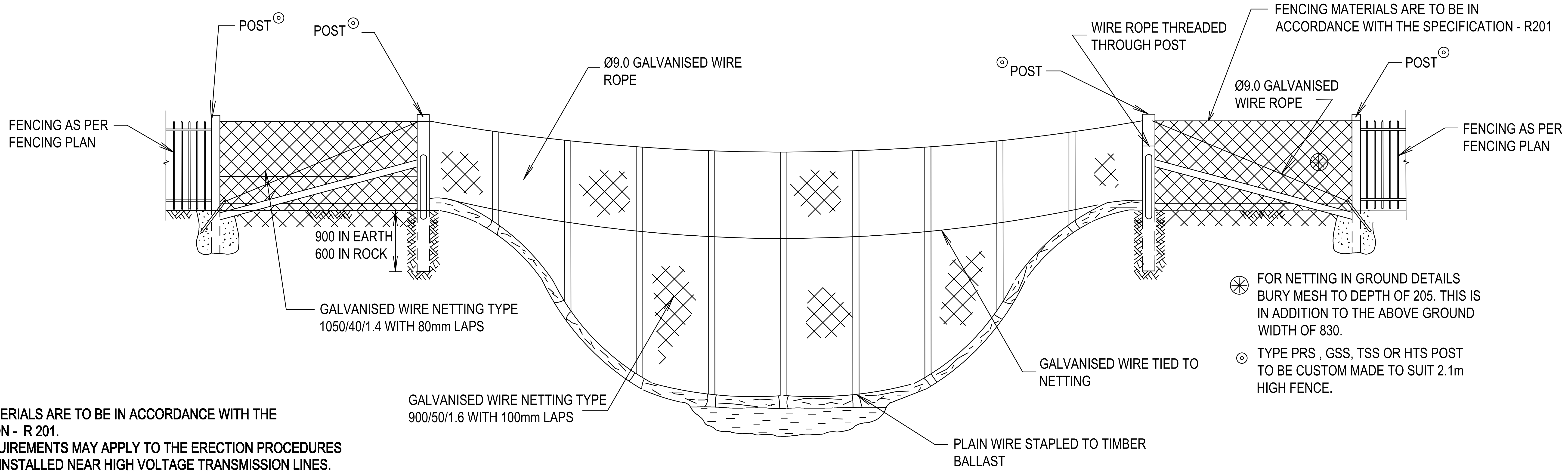
SECTION

NOT TO SCALE


Ø 9.5
GALVANIZED BAR
100
**
125
100
350

DETAIL OF ANCHOR "A"

** FOR TTI OR HTI POSTS THIS DIMENSION IS 175


POST ⊙
POST ⊙
FENCING AS PER FENCING PLAN
Ø9.0 GALVANISED WIRE ROPE
900 IN EARTH
600 IN ROCK
GALVANISED WIRE NETTING TYPE 1050/40/1.4 WITH 80mm LAPS
GALVANISED WIRE NETTING TYPE 900/50/1.6 WITH 100mm LAPS
WIRE ROPE THREADED THROUGH POST
FENCING MATERIALS ARE TO BE IN ACCORDANCE WITH THE SPECIFICATION - R201
⊙ POST
Ø9.0 GALVANISED WIRE ROPE
POST ⊙
FENCING AS PER FENCING PLAN
GALVANISED WIRE TIED TO NETTING
PLAIN WIRE STAPLED TO TIMBER BALLAST

✳ FOR NETTING IN GROUND DETAILS BURY MESH TO DEPTH OF 205. THIS IS IN ADDITION TO THE ABOVE GROUND WIDTH OF 830.

⊙ TYPE PRS , GSS, TSS OR HTS POST TO BE CUSTOM MADE TO SUIT 2.1m HIGH FENCE.

SWALE CROSSING

NTS

NOTES

1 FENCING MATERIALS ARE TO BE IN ACCORDANCE WITH THE SPECIFICATION - R 201.
2. SPECIAL REQUIREMENTS MAY APPLY TO THE ERECTION PROCEDURES FOR FENCES INSTALLED NEAR HIGH VOLTAGE TRANSMISSION LINES. THE RELEVANT ELECTRICITY AUTHORITY SHOULD BE CONTACTED PRIOR TO THE INSTALLATION OF THE FENCE.

Issue	Description	Date
B	ISSUED FOR APPROVAL	28-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

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Client
ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	MGA2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
ICON OCEANIA
253-267 ALDINGTON RD
KEMPS CREEK

Title
FENCING DETAILS
SHEET 3

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C1963
Issue
B

100mm on Original