

BURRAH PARK

ELIZABETH DRIVE, BADGERY'S CREEK, NSW

CIVIL ENGINEERING WORKS

DRAWING SCHEDULE	
DRAWING NUMBER	DESCRIPTION
240518_DA_C000	COVER SHEET, DRAWING SCHEDULE AND LOCALITY SKETCH
240518_DA_C010	NOTES
240518_DA_C100	GENERAL ARRANGEMENT PLAN
240518_DA_C101	DETAIL PLAN SHEET 1 OF 25
240518_DA_C102	DETAIL PLAN SHEET 2 OF 25
240518_DA_C103	DETAIL PLAN SHEET 3 OF 25
240518_DA_C104	DETAIL PLAN SHEET 4 OF 25
240518_DA_C105	DETAIL PLAN SHEET 5 OF 25
240518_DA_C106	DETAIL PLAN SHEET 6 OF 25
240518_DA_C107	DETAIL PLAN SHEET 7 OF 25
240518_DA_C108	DETAIL PLAN SHEET 8 OF 25
240518_DA_C109	DETAIL PLAN SHEET 9 OF 25
240518_DA_C110	DETAIL PLAN SHEET 10 OF 25
240518_DA_C111	DETAIL PLAN SHEET 11 OF 25
240518_DA_C112	DETAIL PLAN SHEET 12 OF 25
240518_DA_C113	DETAIL PLAN SHEET 13 OF 25
240518_DA_C114	DETAIL PLAN SHEET 14 OF 25
240518_DA_C115	DETAIL PLAN SHEET 15 OF 25
240518_DA_C116	DETAIL PLAN SHEET 16 OF 25
240518_DA_C117	DETAIL PLAN SHEET 17 OF 25
240518_DA_C118	DETAIL PLAN SHEET 18 OF 25
240518_DA_C119	DETAIL PLAN SHEET 19 OF 25
240518_DA_C120	DETAIL PLAN SHEET 20 OF 25
240518_DA_C121	DETAIL PLAN SHEET 21 OF 25
240518_DA_C122	DETAIL PLAN SHEET 21 OF 25
240518_DA_C123	DETAIL PLAN SHEET 21 OF 25
240518_DA_C124	DETAIL PLAN SHEET 21 OF 25
240518_DA_C125	DETAIL PLAN SHEET 21 OF 25
240518_DA_C129	TEMPORARY CUL DE SAC PLAN
240518_DA_C130	ROAD LONGITUDINAL SECTIONS ROAD No. 01 (MC 01)
240518_DA_C131	ROAD LONGITUDINAL SECTIONS ROAD No.01 (MC 01) & ROAD No.01a (MC 01a)
240518_DA_C132	ROAD LONGITUDINAL SECTIONS ROAD No. 01a (MC 01a)
240518_DA_C133	ROAD LONGITUDINAL SECTIONS ROAD No.02 (MC 02) & ROAD No.02a (MC 02a)
240518_DA_C134	ROAD LONGITUDINAL SECTIONS ROAD No. 02a (MC 02a)
240518_DA_C135	ROAD LONGITUDINAL SECTIONS ROAD No. 03 (MC 03)
240518_DA_C136	ROAD LONGITUDINAL SECTIONS ROAD No. 03 (MC 03)
240518_DA_C137	ROAD LONGITUDINAL SECTIONS ROAD No. 03 (MC 03) & ROAD No. 04 (MC 04)
240518_DA_C138	ROAD LONGITUDINAL SECTIONS ROAD No. 04 (MC 04) & ROAD No. 05 (MC 05)
240518_DA_C139	ROAD LONGITUDINAL SECTIONS ROAD No. 05 (MC 05)
240518_DA_C150	TYPICAL ROAD CROSS SECTIONS
240518_DA_C151	TYPICAL ROAD VERGE SECTIONS
240518_DA_C160	RETAINING WALL SECTIONS
240518_DA_C200	STORMWATER MISECELLANEOUS DETAILS
240518_DA_C201	REGIONAL STORMWATER BASIN INDICATIVE SECTION
240518_DA_C202	REGIONAL STORMWATER BASIN SEDIMENT BASIN DETAILS SHEET 1
240518_DA_C203	REGIONAL STORMWATER BASIN SEDIMENT BASIN DETAILS SHEET 2
240518_DA_C204	REGIONAL STORMWATER BASIN BIORETENTION DETAILS
240518_DA_C205	REGIONAL STORMWATER BASIN WETLAND DETAILS SHEET 1
240518_DA_C206	REGIONAL STORMWATER BASIN WETLAND DETAILS SHEET 2
240518_DA_C207	REGIONAL STORMWATER BASIN POND DETAILS
240518_DA_C208	REGIONAL STORMWATER BASIN TRUNK DRAINAGE DETAIL
240518_DA_C210	BIO-RETENTION BASIN SECTIONS AND STORMWATER DETAILS
240518_DA_C220	BASINS GENERAL ARRANGEMENT
240518_DA_C221	BASIN F PLAN AND LONG SECTION
240518_DA_C222	BASIN E PLAN AND LONG SECTION
240518_DA_C223	BASIN D.1 PLAN AND LONG SECTION
240518_DA_C224	BASIN PLAN D.2 AND LONG SECTION
240518_DA_C225	BASIN PLAN D.2 AND LONG SECTION
240518_DA_C226	BASIN AB PLAN AND LONG SECTION
240518_DA_C227	BASIN C PLAN AND LONG SECTION
240518_DA_C228	BASIN C PLAN AND LONG SECTION

DRAWING SCHEDULE	
DRAWING NUMBER	DESCRIPTION
240518_DA_C240	PROPOSED CREEK PLAN AND LONGITUDINAL SECTION, SHEET 1 OF 4
240518_DA_C241	PROPOSED CREEK PLAN AND LONGITUDINAL SECTION, SHEET 2 OF 4
240518_DA_C242	PROPOSED CREEK PLAN AND LONGITUDINAL SECTION, SHEET 3 OF 4
240518_DA_C243	PROPOSED CREEK PLAN AND LONGITUDINAL SECTION, SHEET 4 OF 4
240518_DA_C245	TYPICAL CREEK SECTIONS
240518_DA_C250	PRE-DEVELOPMENT SYDNEY WATER CATCHMENT PLAN
240518_DA_C251	MASTER PLAN POST-DEVELOPMENT CATCHMENT PLAN
240518_DA_C252	WATER QUALITY, REUSE AND DETENTION - LOT SUMMARY
240518_DA_C253	STORMWATER DETAILED CATCHMENT PLAN-GENERAL ARRANGEMENT PLAN
240518_DA_C254	STORMWATER DETAILED CATCHMENT PLAN SHEET 1 OF 6
240518_DA_C255	STORMWATER DETAILED CATCHMENT PLAN SHEET 2 OF 6
240518_DA_C256	STORMWATER DETAILED CATCHMENT PLAN SHEET 3 OF 6
240518_DA_C257	STORMWATER DETAILED CATCHMENT PLAN SHEET 4 OF 6
240518_DA_C258	STORMWATER DETAILED CATCHMENT PLAN SHEET 5 OF 6
240518_DA_C259	STORMWATER DETAILED CATCHMENT PLAN SHEET 6 OF 6
240518_DA_C260	STORMWATER LONGITUDINAL SECTIONS SHEET 1 OF 25
240518_DA_C261	STORMWATER LONGITUDINAL SECTIONS SHEET 2 OF 25
240518_DA_C262	STORMWATER LONGITUDINAL SECTIONS SHEET 3 OF 25
240518_DA_C263	STORMWATER LONGITUDINAL SECTIONS SHEET 4 OF 25
240518_DA_C264	STORMWATER LONGITUDINAL SECTIONS SHEET 4 OF 25
240518_DA_C265	STORMWATER LONGITUDINAL SECTIONS SHEET 5 OF 25
240518_DA_C266	STORMWATER LONGITUDINAL SECTIONS SHEET 7 OF 25
240518_DA_C267	STORMWATER LONGITUDINAL SECTIONS SHEET 8 OF 25
240518_DA_C268	STORMWATER LONGITUDINAL SECTIONS SHEET 9 OF 25
240518_DA_C269	STORMWATER LONGITUDINAL SECTIONS SHEET 10 OF 25
240518_DA_C270	STORMWATER LONGITUDINAL SECTIONS SHEET 11 OF 25
240518_DA_C271	STORMWATER LONGITUDINAL SECTIONS SHEET 12 OF 25
240518_DA_C272	STORMWATER LONGITUDINAL SECTIONS SHEET 13 OF 25
240518_DA_C273	STORMWATER LONGITUDINAL SECTIONS SHEET 14 OF 25
240518_DA_C274	STORMWATER LONGITUDINAL SECTIONS SHEET 15 OF 25
240518_DA_C275	STORMWATER LONGITUDINAL SECTIONS SHEET 16 OF 25
240518_DA_C276	STORMWATER LONGITUDINAL SECTIONS SHEET 17 OF 25
240518_DA_C277	STORMWATER LONGITUDINAL SECTIONS SHEET 18 OF 25
240518_DA_C278	STORMWATER LONGITUDINAL SECTIONS SHEET 19 OF 25
240518_DA_C279	STORMWATER LONGITUDINAL SECTIONS SHEET 20 OF 25
240518_DA_C280	STORMWATER LONGITUDINAL SECTIONS SHEET 21 OF 25
240518_DA_C281	STORMWATER LONGITUDINAL SECTIONS SHEET 22 OF 25
240518_DA_C282	STORMWATER LONGITUDINAL SECTIONS SHEET 23 OF 25
240518_DA_C283	STORMWATER LONGITUDINAL SECTIONS SHEET 24 OF 25
240518_DA_C284	STORMWATER LONGITUDINAL SECTIONS SHEET 25 OF 25
240518_DA_C290	MASTER PLAN PRE-DEVELOPMENT OSD CATCHMENT PLAN
240518_DA_C295	MASTER PLAN IRRIGATION PLAN
240518_DA_C651	26m B-DOUBLE TURNING PATH SHEET 1 OF 8
240518_DA_C652	26m B-DOUBLE TURNING PATH SHEET 2 OF 8
240518_DA_C653	26m B-DOUBLE TURNING PATH SHEET 3 OF 8
240518_DA_C654	26m B-DOUBLE TURNING PATH SHEET 4 OF 8
240518_DA_C655	26m B-DOUBLE TURNING PATH SHEET 5 OF 8
240518_DA_C656	26m B-DOUBLE TURNING PATH SHEET 6 OF 8
240518_DA_C657	26m B-DOUBLE TURNING PATH SHEET 7 OF 8
240518_DA_C658	26m B-DOUBLE TURNING PATH SHEET 8 OF 8
240518_DA_C661	36.5m B-TRIPLE TURNING PATH SHEET 1 OF 8
240518_DA_C662	36.5m B-TRIPLE TURNING PATH SHEET 2 OF 8
240518_DA_C663	36.5m B-TRIPLE TURNING PATH SHEET 3 OF 8
240518_DA_C664	36.5m B-TRIPLE TURNING PATH SHEET 4 OF 8
240518_DA_C665	36.5m B-TRIPLE TURNING PATH SHEET 5 OF 8
240518_DA_C666	36.5m B-TRIPLE TURNING PATH SHEET 6 OF 8
240518_DA_C667	36.5m B-TRIPLE TURNING PATH SHEET 7 OF 8
240518_DA_C668	36.5m B-TRIPLE TURNING PATH SHEET 8 OF 8
240518_DA_C671	14.5m LONG BUS TURNING PATH SHEET 1 OF 6
240518_DA_C672	14.5m LONG BUS TURNING PATH SHEET 2 OF 6
240518_DA_C673	14.5m LONG BUS TURNING PATH SHEET 3 OF 6

DRAWING SCHEDULE	
DRAWING NUMBER	DESCRIPTION
240518_DA_C674	14.5m LONG BUS TURNING PATH SHEET 4 OF 6
240518_DA_C675	14.5m LONG BUS TURNING PATH SHEET 5 OF 6
240518_DA_C676	14.5m LONG BUS TURNING PATH SHEET 6 OF 6
240518_DA_SE01	SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 4
240518_DA_SE02	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 4
240518_DA_SE03	SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 4
240518_DA_SE04	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 4
240518_DA_SE05	SEDIMENT AND EROSION CONTROL DETAILS
240518_DA_SE06	TYPE A BASIN TYPICAL PLAN SECTION AND DETAILS
240518_DA_SE08	TEMPORARY CULVERT CROSSING DETAILS AND FLOW DIVERSIONS BANKS
240518_DA_SE11	EARLY EARTHWORKS SEDIMENT AND EROSION CONTROL PLAN SHEET 1
240518_DA_SE12	EARLY EARTHWORKS SEDIMENT AND EROSION CONTROL PLAN SHEET 2
240518_DA_SE13	EARLY EARTHWORKS SEDIMENT AND EROSION CONTROL PLAN SHEET 3
240518_DA_SE14	EARLY EARTHWORKS SEDIMENT AND EROSION CONTROL PLAN SHEET 4
240518_DA_BE01	BULK EARTHWORKS CUT AND FILL PLAN - IS
240518_DA_BE20	BULK EARTHWORKS SITE SECTION - A SHEET 1 OF 5
240518_DA_BE21	BULK EARTHWORKS SITE SECTION - B SHEET 2 OF 5
240518_DA_BE22	BULK EARTHWORKS SITE SECTION - C & D SHEET 3 OF 5
240518_DA_BE23	BULK EARTHWORKS SITE SECTION - E SHEET 4 OF 5
240518_DA_BE24	BULK EARTHWORKS SITE SECTION - F SHEET 5 OF 5
240518_DA_BE30	TYPICAL EARTHWORKS SECTIONS SHEET 1 OF 2
240518_DA_BE31	TYPICAL EARTHWORKS SECTIONS SHEET 2 OF 2



LOCALITY SKETCH
SCALE: N.T.S.

ISSUED FOR SSDA

SURVEY INFORMATION	
SURVEYED BY:	DATE
L.TSL	05
	04
	03
	02
	01

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.	

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Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Drawn	L.Caha
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Original issue date	45413
Scale @A1	1:3000
Drawing number	240518_DA_C000
Revision	05

DRAWING TO BE PRINTED IN COLOUR	
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GENERAL NOTES:

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
- ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS AND MARRY IN A 'WORKMANLIKE' MANNER.
- THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. H & H CONSULTING ENGINEERS PTY. LTD CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
- SERVICES & ACCESSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
- ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
- REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
- MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND PENRITH CITY COUNCIL REQUIREMENTS WHERE APPLICABLE.
- CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
- PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

EXISTING SERVICES & FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF. EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

SITWORKS NOTES

- DATUM : A.H.D.
- ORIGIN OF LEVELS : REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES UNLESS SHOWN ON THE SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN. GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. 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 HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

BULK EARTHWORKS/ SUBGRADE PREPARATION - SITWORKS.

- REFER TO GEOTECHNICAL INVESTIGATION REPORT OR INFORMATION RELATING TO EXISTING GROUND CONDITIONS, SITE TREATMENT AND SUPERVISION. REPORT BY DEVELOPMENT RISK MANAGEMENT REPORT REFERENCE DRMP24.1002.V023.B-R01D1 AND ALL RELEVANT PRECEDING REFERENCES.
- THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM SURVEY AND 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.
- HENRY AND HYMAS PTY LTD 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 ARISING FROM ANY CAUSE WHATSOEVER. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION. FOR COMMENCEMENT OF WORKS ON SITE, SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
- ALL SERVICES ARE TO BE LOCATED AND CUT OFF PRIOR TO THE COMMENCEMENT OF EXCAVATION AND FILLING OPERATIONS.
- ALL TOP SOIL, ORGANIC MATTER AND FILL MATERIAL SHALL BE REMOVED FROM ALL AREAS UNDER BUILDING AND CARPARK LOCATIONS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. AREAS TO BE FULLY STRIPPED OF EXISTING FILL AND DARK BROWN BLACK UPPER ORGANIC ALLUVIUM, OR OBVIOUS UNSUITABLE MATERIAL.
- EXCAVATE TO ACHIEVE SUBGRADE LEVELS WHERE NECESSARY.
- THE EXPOSED SUBGRADE AFTER STRIPPING AND/ OR EXCAVATION IS TO BE PROOF ROLLED USING NOT FEWER THAN 8 PASSES OF A MINIMUM 12 TONNE DEAD WEIGHT SMOOTH DRUM ROLLER UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER OR AN EXPERIENCED CIVIL ENGINEER. ANY AREAS ON THE SUBGRADE EXHIBITING EXCESSIVE DEFLECTION / MOVEMENT UNDER ROLLER TO BE EXCAVATED TO A MIN. DEPTH OF 0.5m AND REPLACED WITH APPROVED GRANULAR MATERIAL COMPACTED IN 250mm LOOSE LAYERS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- ENGINEERED FILL FOR REPLACEMENT OF SOFT OR HEAVING AREAS OR FOR BULK FILLING TO COMPRISE ESSENTIALLY OF GRANULAR MATERIALS (EG. EXCAVATED SHALE), WITH A PARTICLE SIZE NOT GREATER THAN 75mm DIAMETER. ENGINEERED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO 100% OF STANDARD MAXIMUM DRY DENSITY (SMD) WITHIN $\pm 2\%$ OF OPTIMUM MOISTURE CONTENT (OMC).
- IMPORTED FILLING (IF REQUIRED) IS TO BE TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO NOMINATE THE SOURCE AND PROVIDE A SAMPLE FOR APPROVAL PRIOR TO IMPORTATION AND PLACEMENT ON SITE.
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING. FREE FORM ORGANIC AND PERISHABLE MATTER
MAXIMUM PARTICLE SIZE = 75mm
MAXIMUM PLASTICITY INDEX = 15%
MIN CBR 5%

ALL IMPORTED FILL MATERIAL SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FROM GEOTECH REPORT BY DEVELOPMENT RISK MANAGEMENT REPORT REFERENCE DRMP24.1002.V023.B-R01D1.
- ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH GEOTECH REPORT BY RELEVANT DEVELOPMENT RISK MANAGEMENT REPORT REFERENCE DRMP24.1002.V023.B-R01D1.
- IN-SITU DENSITY TESTING AND SUPERVISION MUST BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED WITHIN GEOTECH REPORT BY RELEVANT DEVELOPMENT RISK MANAGEMENT REPORT REFERENCE DRMP24.1002.V023.B-R01D1.

COMPACTION REQUIREMENTS

- PREPARATION FOR PAVEMENT: CLEAR SITE, STRIP TOP-SOIL, CUT AND FILL AND PREPARATIONS OF SUB-GRADE SHALL BE AS DESCRIBED IN "SUBGRADE PREPARATION - SITWORKS".
- SUB-GRADE SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT $\pm 2\%$ IN ACCORDANCE WITH AS 1289 5.1.1., TOP 300MM TO 100% SDD.
- FOR A SAND SUBGRADE, COMPACTION SHALL BE TO MIN.90% DENSITY INDEX AS PER AS1289 E6.1
- LOWER BASE COURSE SHALL BE CONSTRUCTED FROM CRUSHED ROCK COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT $\pm 2\%$ IN ACCORDANCE WITH AS 1289 5.1.1. OF THICKNESS NOTED ON DRAWINGS.
- BASE COURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT $\pm 2\%$ IN ACCORDANCE WITH AS 1289 5.1.1 OF THICKNESS NOTED ON DRAWINGS.
- WEARING SURFACE SHALL BE ASPHALTIC CONCRETE TO STANDARD SPECIFICATION
- TESTING OF THE SUBGRADE AND PAVEMENT LAYERS SHALL BE CARRIED OUT BY APPROVED N.A.T.A. REGISTERED LABORATORY.

DRAINAGE NOTES:

- ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
- PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.
- MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
- NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
- FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
- ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.
- ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME. ALL PITS IN TRAFFICABLE AREAS (CLASS 'D' LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU $f_c=32$ MPa. REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE. U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV/MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.
- PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
- PIPE SIZE
- DEPTH TO INVERT
- SKEW ANGLE
REFER TYPICAL PIT CHAMBER DETAILS BELOW
IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
- FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.
- GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
- ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
- ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
- MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
- ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
- ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
- LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.
- PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm, REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS, BOTH FACES THROUGHOUT U.N.O ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
- SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.
- ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.

SUBSOIL DRAINAGE NOTES

- GENERALLY PROVIDE SUBSOIL DRAINS TO INTERCEPT GROUNDWATER SEEPAGE AND PREVENT WATER BUILD-UP BEHIND WALLS AND UNDER FLOORS AND PAVEMENTS. CONNECT SUBSOIL TO SURFACE DRAINS OR TO THE STORMWATER DRAINAGE SYSTEM AS APPLICABLE.
- PIPE DEPTH: PROVIDE THE FOLLOWING MINIMUM CLEAR DEPTH, MEASURED TO THE CROWN OF THE PIPE, WHERE THE PIPE PASSES BELOW THE FOLLOWING ELEMENTS:
 - 100mm BELOW FORMATION LEVEL OF THE PAVEMENT, KERB OR CHANNEL.
 - 100mm BELOW THE AVERAGE GRADIENT OF THE BOTTOM OF FOOTINGS.
- JOINTING:** AT JUNCTIONS OF SUBSOIL PIPES PROVIDE TEES, COUPLINGS OR ADAPTORS TO AS2439.1.
- TRENCH WIDTH MINIMUM 300mm.
- PIPE UNDERLAY**
GENERAL: GRADE THE TRENCH FLOOR EVENLY TO THE GRADIENT OF THE PIPELINE. IF THE TRENCH FLOOR IS ROCK, CORRECT ANY IRREGULARITIES WITH COMPACTED BEDDING MATERIAL. BED PIPING ON A CONTINUOUS UNDERLAY OF BEDDING MATERIAL. AT LEAST 75mm THICK AFTER COMPACTION. LAY THE PIPE WITH ONE LINE OF PERFORATIONS AT THE BOTTOM.



CHASES: IF NECESSARY TO PREVENT PROJECTIONS SUCH AS SOCKETS AND FLANGES FROM BEARING ON THE TRENCH BOTTOM OR UNDERLAY.
- PIPE SURROUNDS:**
GENERAL: PLACE THE MATERIAL IN THE PIPE SURROUND IN LAYERS SMALLER THAN OR EQUAL TO 200mm LOOSE THICKNESS, AND COMPACT WITHOUT DAMAGING OR DISPLACING PIPING.
DEPTH OF OVERLAY: TO THE UNDERSIDE OF THE BASE OF OVERLYING STRUCTURES SUCH AS PAVEMENTS, SLABS AND CHANNELS TO WITHIN 150mm OF THE FINISHED SURFACE OF UNPAVED OR LANDSCAPED AREAS.
- FILTER SOCKS:**
PROVIDE POLYESTER PERMEABLE SOCKS CAPABLE OF RETAINING PARTICLES OF 0.25mm SIZES. SECURELY FIT OR JOIN THE SOCK AT EACH JOINT.

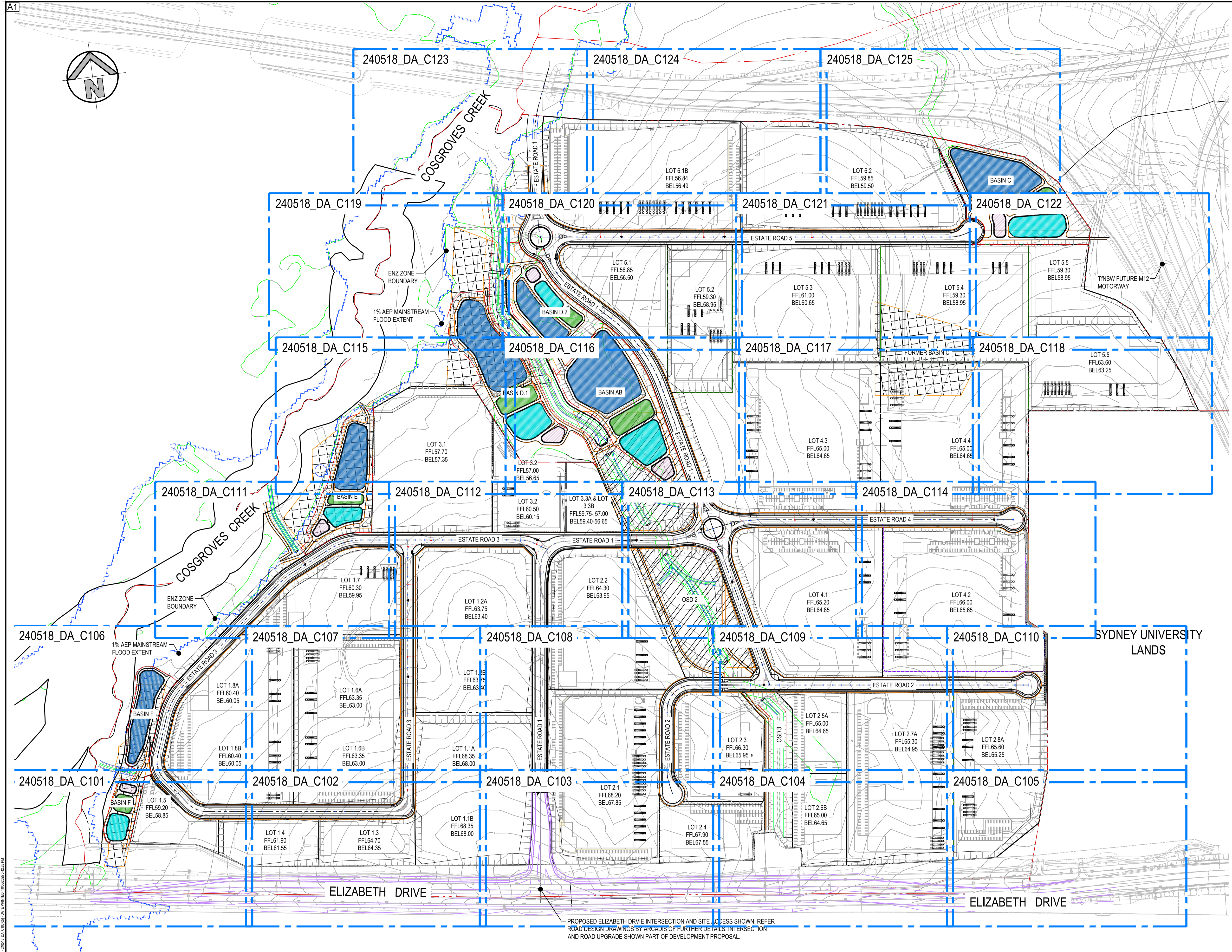
KERBING NOTES:

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSING AND EDGES.

- ALL KERBS, GUTTERS, DISH DRAINS AND CROSSING TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASE COURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
- EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILTER 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 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATION IN KERBS.
- WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
- BROADMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- IN THE REPLACEMENT OF KERBS EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASE COURSE AND SURFACE IS TO BE LAID 900mm WIDE TO MATCH EXISTING MATERIALS AND THICKNESS. EXISTING ALLOTMENT DRAINAGE PIPE ARE TO BE BUILT INTO NEW KERB WITH A 100mm DIA HOLE. EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

ISSUED FOR SSDA

SURVEY INFORMATION						Client						Suite 2.01 828 Pacific Highway Gordon NSW 2072			Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@rhiconsult.com.au Web www.henryandhymas.com.au			Project BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW			Drawn L.Caha		Designed N.Wetzlar		Original issue date 45413	
SURVEYED BY: L.TSL						Architect / Surveyor NETTLETONTRIBE												Checked N.Wetzlar		Approved A.Francis		Scale @A1 1:3000				
DATUM: AHD						This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.						DRAWING TO BE PRINTED IN COLOUR			Title NOTES			Drawing number 240518_DA_C010		Revision 04						
ORIGIN OF LEVELS: PMZ5501, RL59.659																										
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03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)		MB	SY	31.10.2024																					
02	ISSUED FOR CONCEPT		MP	NW	15.10.2024																					
01	ISSUED FOR CONCEPT		MP	NW	25.07.24																					



LEGEND

- PROPOSED BOUNDARY
- EXISTING SITE BOUNDARY
- PROPOSED ROAD BOUNDARY
- PROPOSED LOT BOUNDARY
- ENZ BOUNDARY (INDICATIVE)
- PROPOSED CONTOURS
- EXISTING CONTOURS
- FLOOD EXTENT 1% AEP
- COSGROVES CREEK
- PROPOSED LIMIT OF WORK
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ON GRADE & SAG PITS
- PROPOSED PIT TAG
- PROPOSED STORMWATER PIPE
- PROPOSED STORMWATER CULVERT
- EXISTING BATTER LINE
- PROPOSED BATTER LINE
- PROPOSED SPOT LEVEL
- PROPOSED RETAINING WALL
- PROPOSED KERB & GUTTER
- SYDNEY WATER REGIONAL COMBINED WSUD WETLANDS AND INDICATIVE DETENTION ZONE ALLOCATION.
- SYDNEY WATER REGIONAL WSUD WETLAND ALLOCATION.
- BASIN ALLOCATIONS UNDER AEROTROPOLIS DRAFT INTEGRATED STORMWATER SCHEMES
- PROPOSED AMENDED BASIN ALLOCATIONS FOLLOWING CONSOLIDATION DURING EXHIBITION PERIOD
- PROPOSED BIORETENTION BASIN
- PROPOSED WETLAND
- PROPOSED STORAGE POND
- PROPOSED OSD ZONE
- PROPOSED SEDIMENT POND

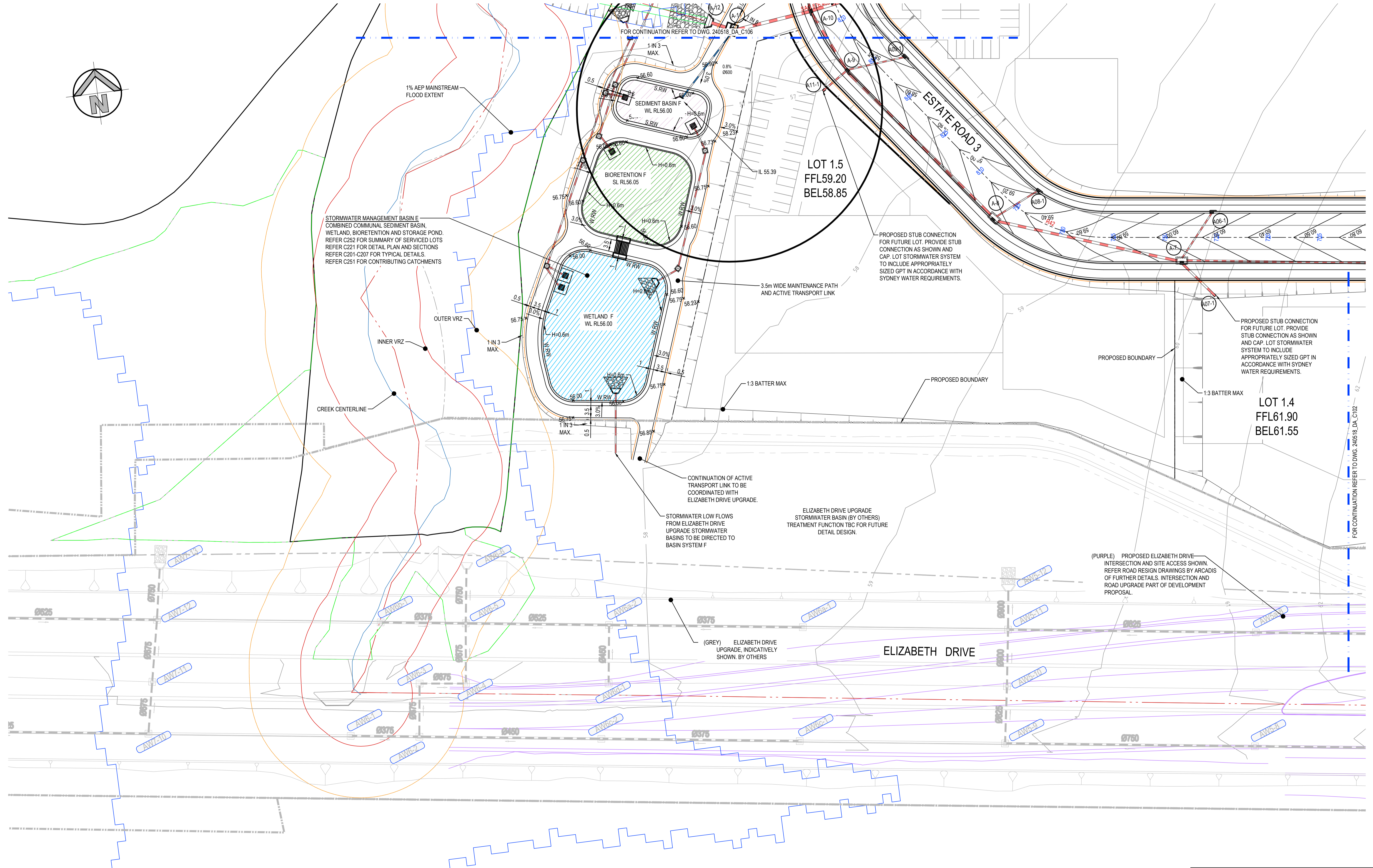
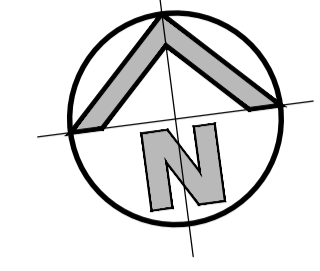
NOTES:
ALL FFLs / BELs +/- 100mm

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DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 100mm

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Client
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Architect / Surveyor
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henry&hymas

Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Drawn
L.Caha

Designed
N.Wetzlar

Checked
N.Wetzlar

Approved
A.Francis

Original issue date
45413

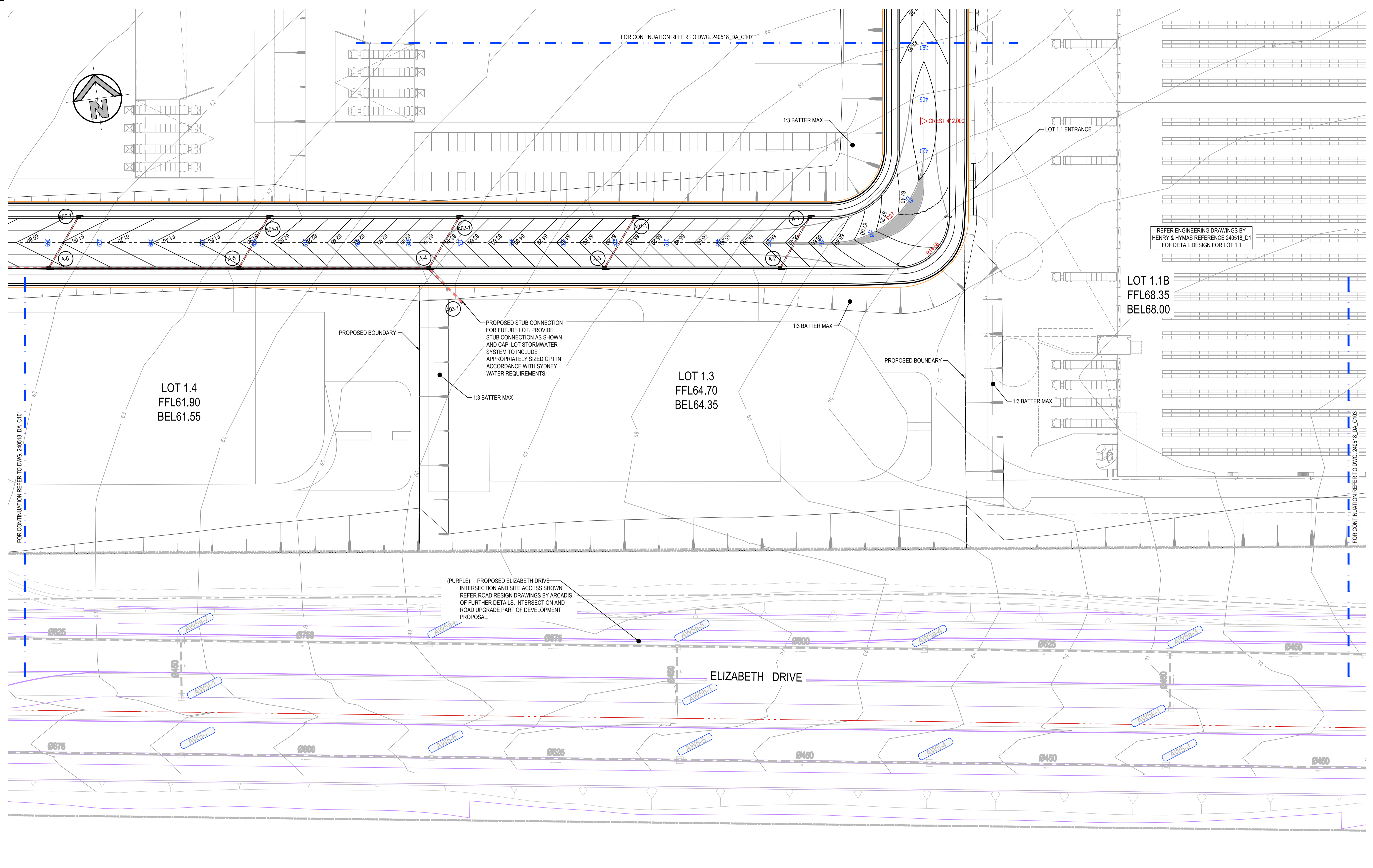
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Drawing number
240518_DA_C101

Revision
05

Title
DETAIL PLAN SHEET 1 OF 25

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REFER ENGINEERING DRAWINGS BY HENRY & HYMAS REFERENCE 240518_01 FOR DETAIL DESIGN FOR LOT 1.1

DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

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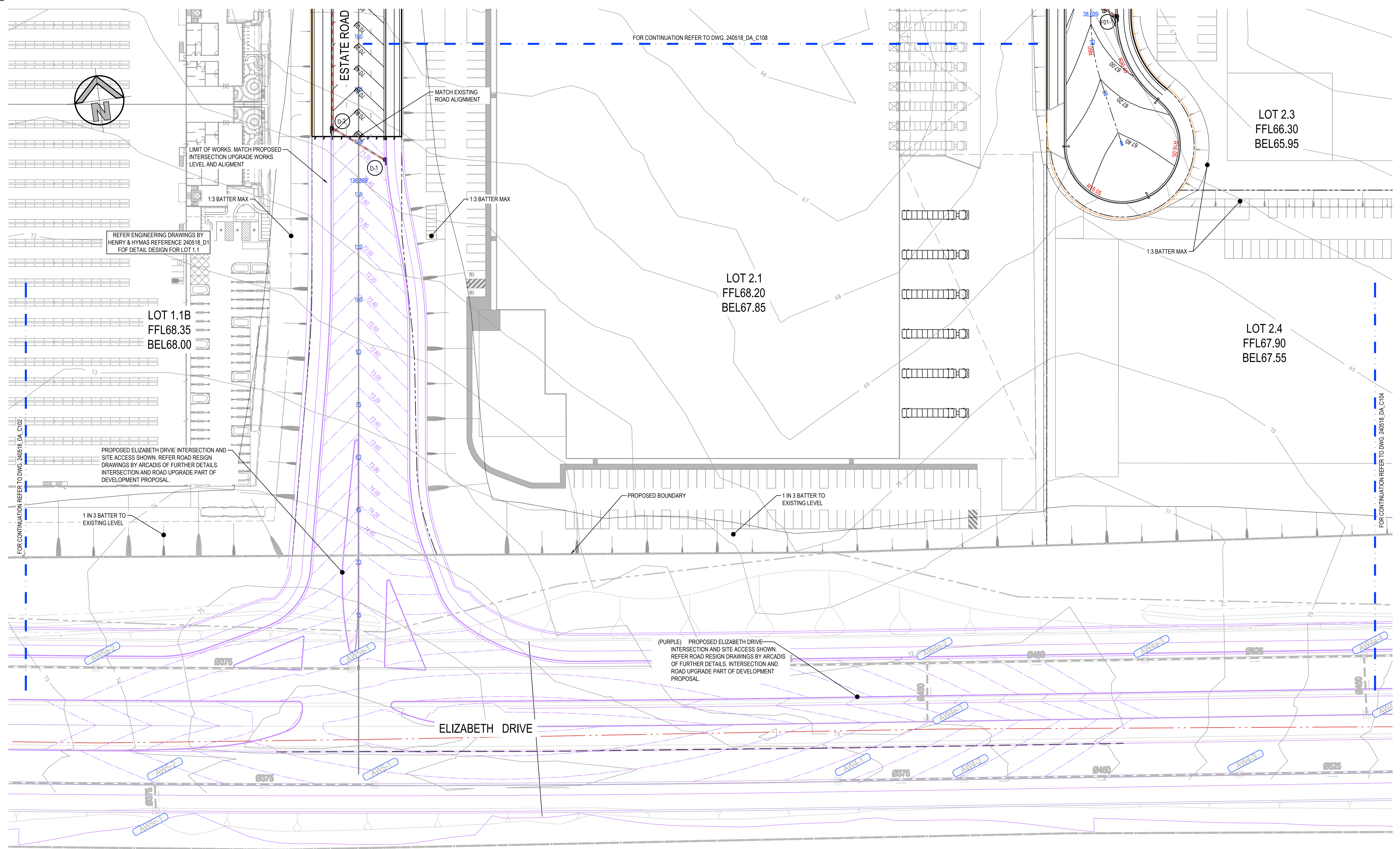
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 2 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C102		Revision 05



FOR CONTINUATION REFER TO DWG. 240518_DA_C108

FOR CONTINUATION REFER TO DWG. 240518_DA_C104

(PURPLE) PROPOSED ELIZABETH DRIVE INTERSECTION AND SITE ACCESS SHOWN. REFER ROAD DESIGN DRAWINGS BY ARCADIS OF FURTHER DETAILS. INTERSECTION AND ROAD UPGRADE PART OF DEVELOPMENT PROPOSAL.

DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

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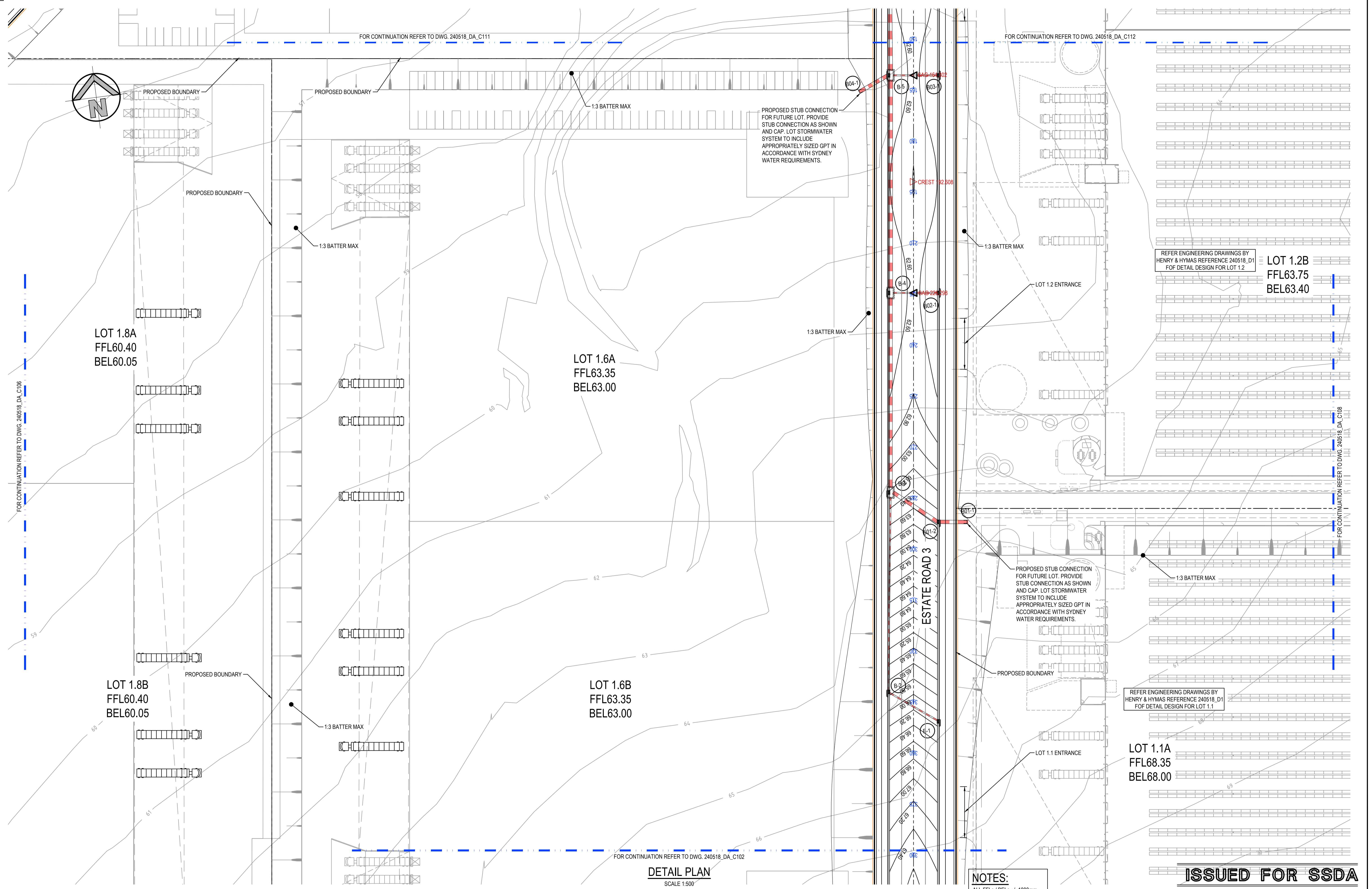


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 3 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C103		Revision 05

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DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

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Client
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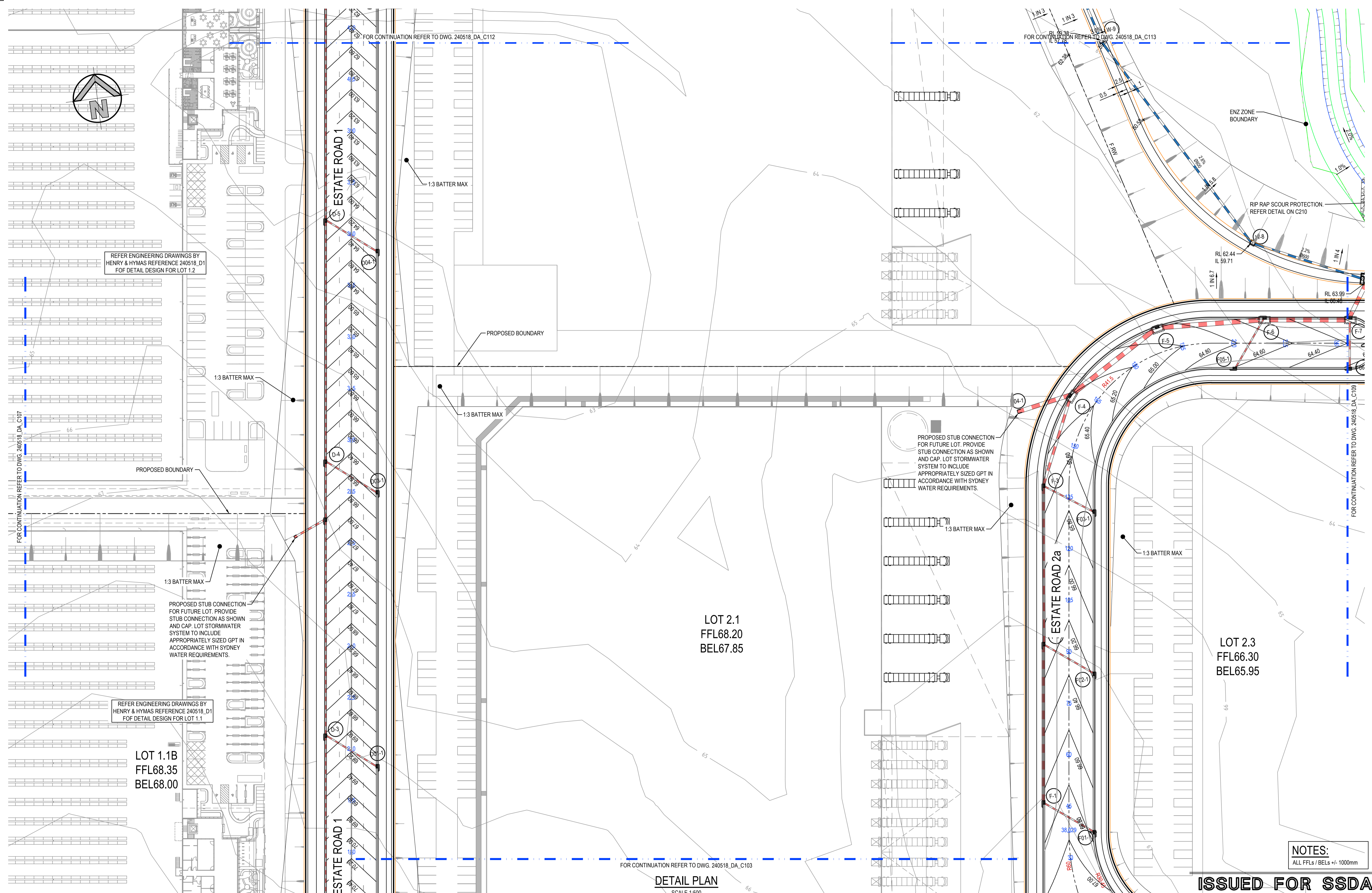
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 7 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number	Revision	
240518_DA_C107	05	



REFER ENGINEERING DRAWINGS BY HENRY & HYMAS REFERENCE 240518_D1 FOF DETAIL DESIGN FOR LOT 1.2

PROPOSED STUB CONNECTION FOR FUTURE LOT. PROVIDE STUB CONNECTION AS SHOWN AND CAP. LOT STORMWATER SYSTEM TO INCLUDE APPROPRIATELY SIZED GPT IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS.

REFER ENGINEERING DRAWINGS BY HENRY & HYMAS REFERENCE 240518_D1 FOF DETAIL DESIGN FOR LOT 1.1

PROPOSED STUB CONNECTION FOR FUTURE LOT. PROVIDE STUB CONNECTION AS SHOWN AND CAP. LOT STORMWATER SYSTEM TO INCLUDE APPROPRIATELY SIZED GPT IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS.

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

DETAIL PLAN
SCALE 1:500

SURVEY INFORMATION

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Client
HB&B Property Pty and ISPT Pty Ltd

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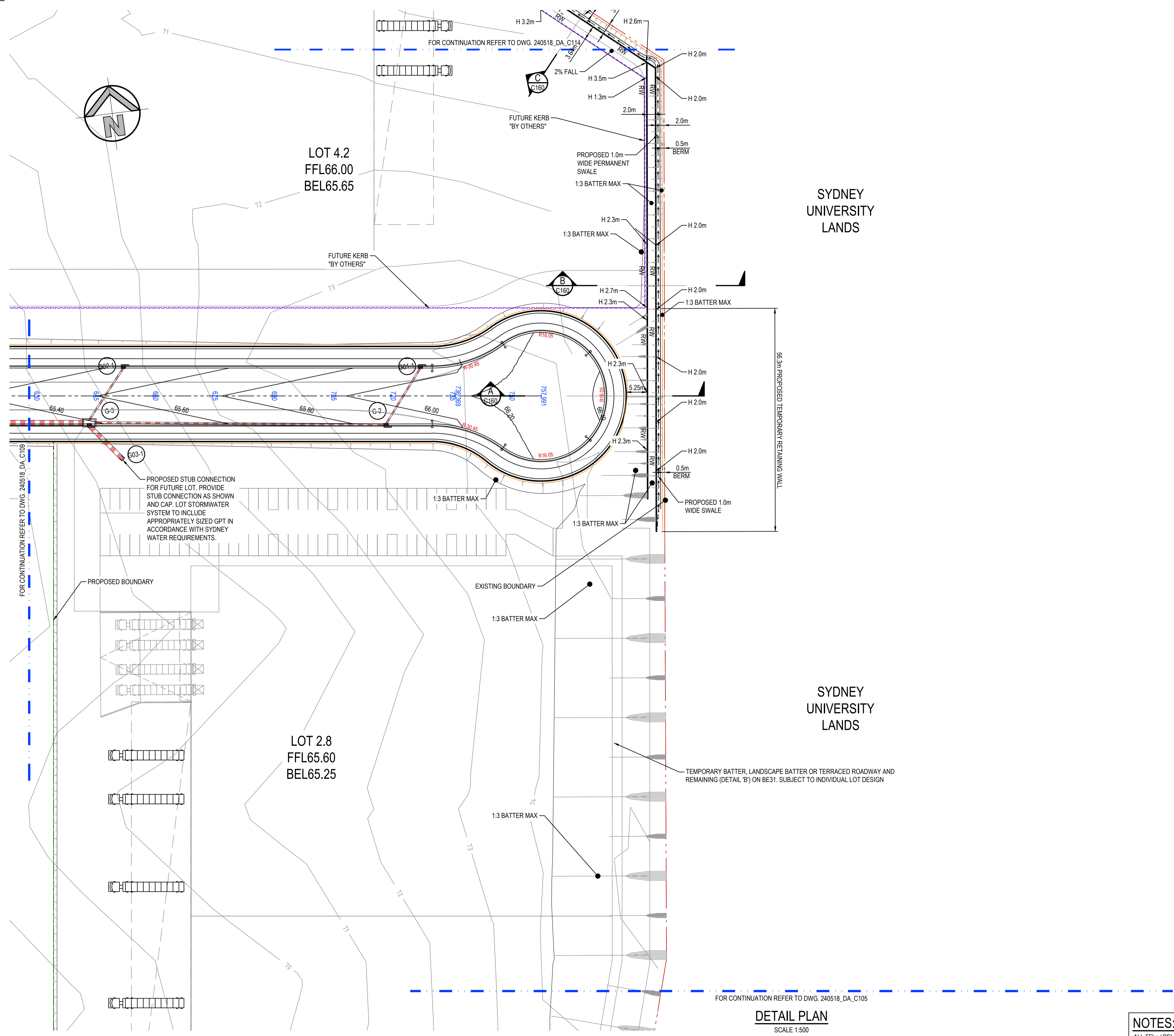


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 8 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C108	Revision 05	

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DETAIL PLAN
SCALE 1:500

NOTES:
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05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024
01	ISSUED FOR CONCEPT	MP	NW	25.07.24

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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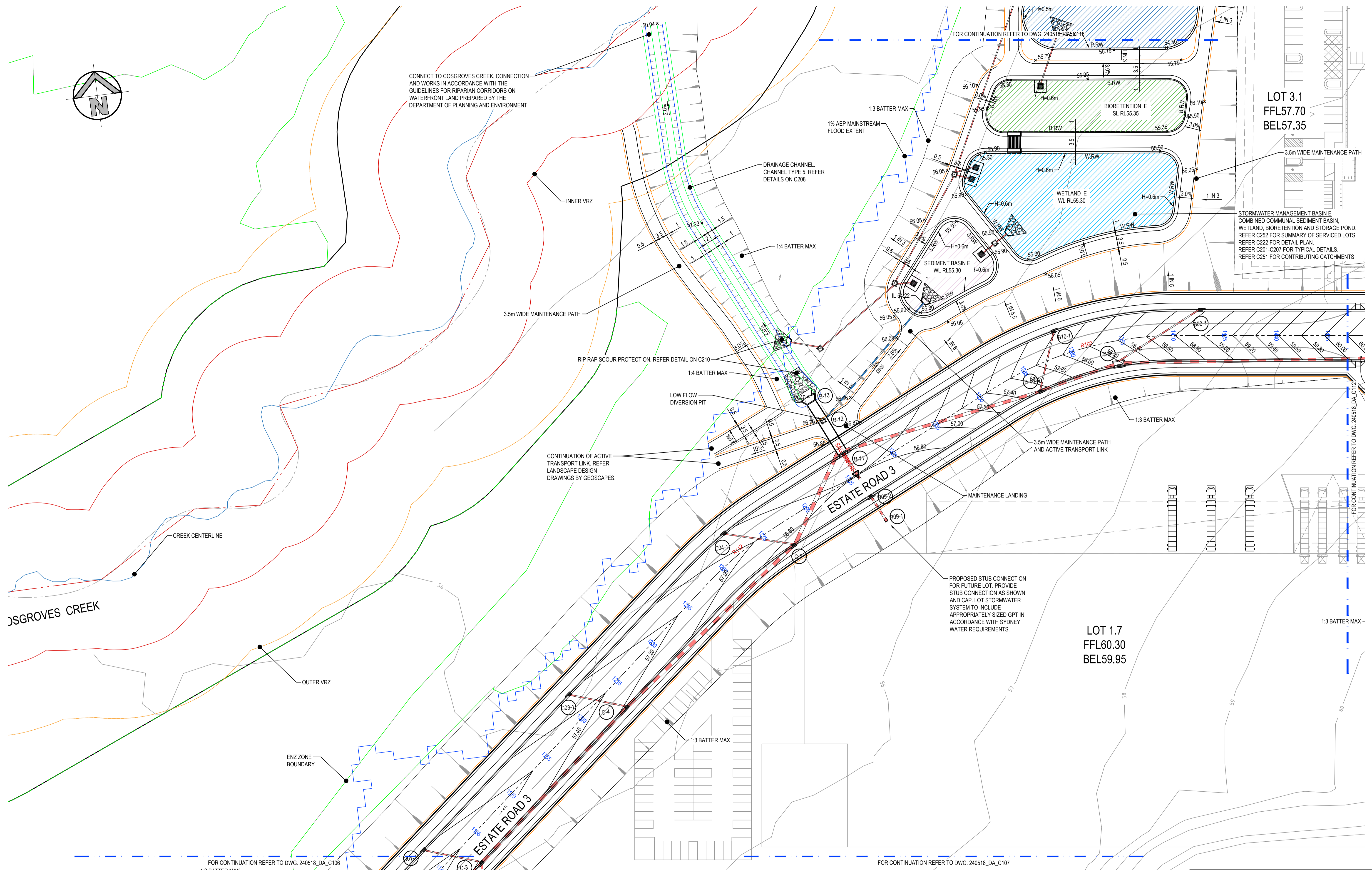
henry&hymas



Project		
BURRAH PARK		
ELIZABETH DRIVE, BADGERYS CREEK, NSW		
Title		
DETAIL PLAN SHEET 10 OF 25		

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:500
Drawing number	Revision	
240518_DA_C110	05	

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CONNECT TO COSGROVES CREEK, CONNECTION AND WORKS IN ACCORDANCE WITH THE GUIDELINES FOR RIPARIAN CORRIDORS ON WATERFRONT LAND PREPARED BY THE DEPARTMENT OF PLANNING AND ENVIRONMENT

FOR CONTINUATION REFER TO DWG. 240518_DA_C106

LOT 3.1
FFL57.70
BEL57.35

STORMWATER MANAGEMENT BASIN E
COMBINED COMMUNAL SEDIMENT BASIN, WETLAND, BIORETENTION AND STORAGE POND. REFER C252 FOR SUMMARY OF SERVICED LOTS. REFER C222 FOR DETAIL PLAN. REFER C201-C207 FOR TYPICAL DETAILS. REFER C251 FOR CONTRIBUTING CATCHMENTS

LOT 1.7
FFL60.30
BEL59.95

DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD	03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY
ORIGIN OF LEVELS: PMZ5501, RL59.659	02	ISSUED FOR CONCEPT	MP	NW
	01	ISSUED FOR CONCEPT	MP	NW
REVISION	AMENDMENT	DESIGNED	DATE	REVISION

Client
HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor
NETTLETONTRIBE
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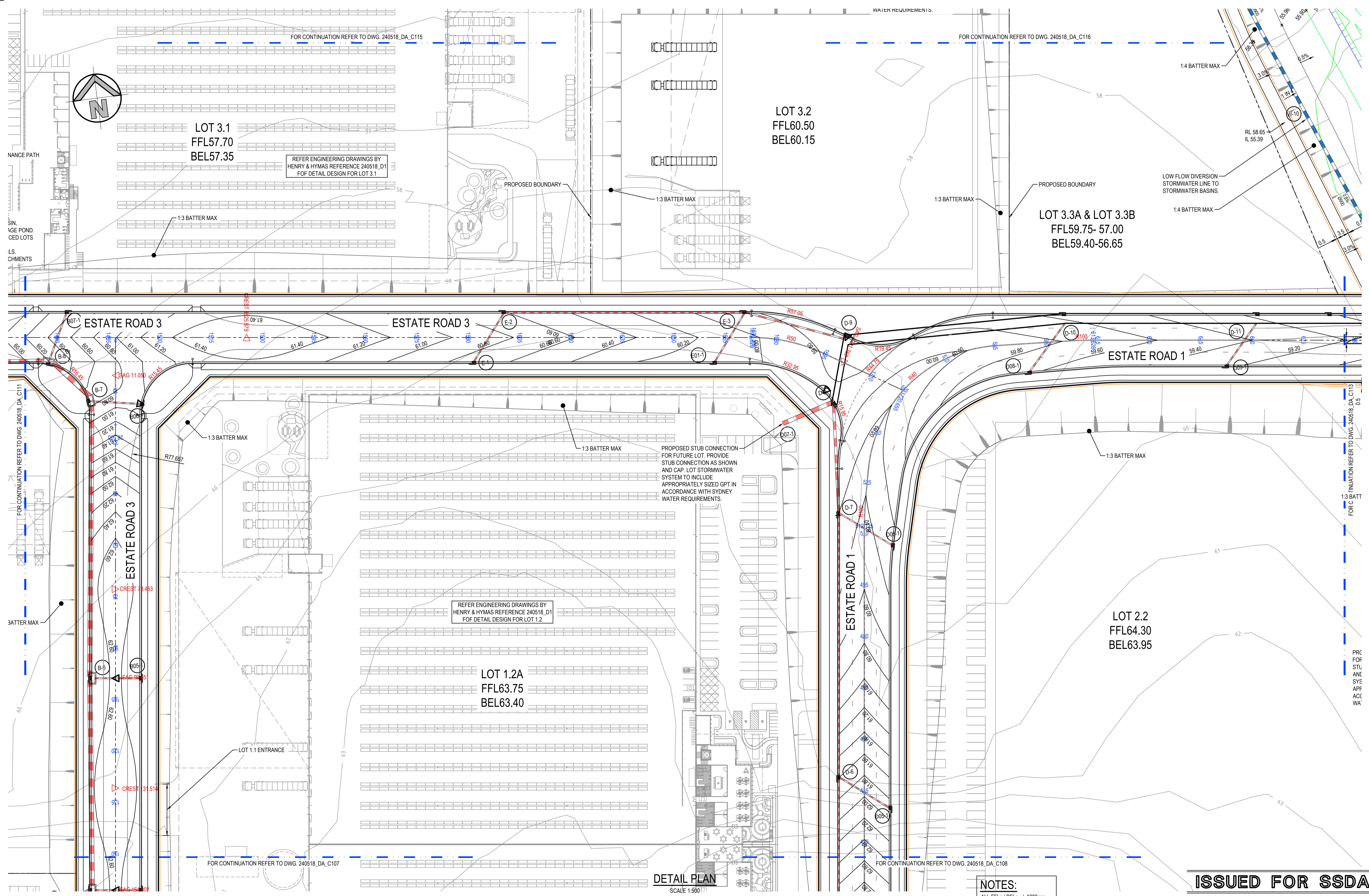
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title
DETAIL PLAN SHEET 11 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number	Revision	
240518_DA_C111	05	

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DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024
01	ISSUED FOR CONCEPT	MP	NW	25.07.24
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Drawn
L.Caha

Designed
N.Wetzlar

Original issue date
45413

Checked
N.Wetzlar

Approved
A.Francis

Scale @A1
1:500

Drawing number
240518_DA_C112

Revision
05

Title
DETAIL PLAN SHEET 12 OF 25

Drawn
L.Caha

Designed
N.Wetzlar

Original issue date
45413

Checked
N.Wetzlar

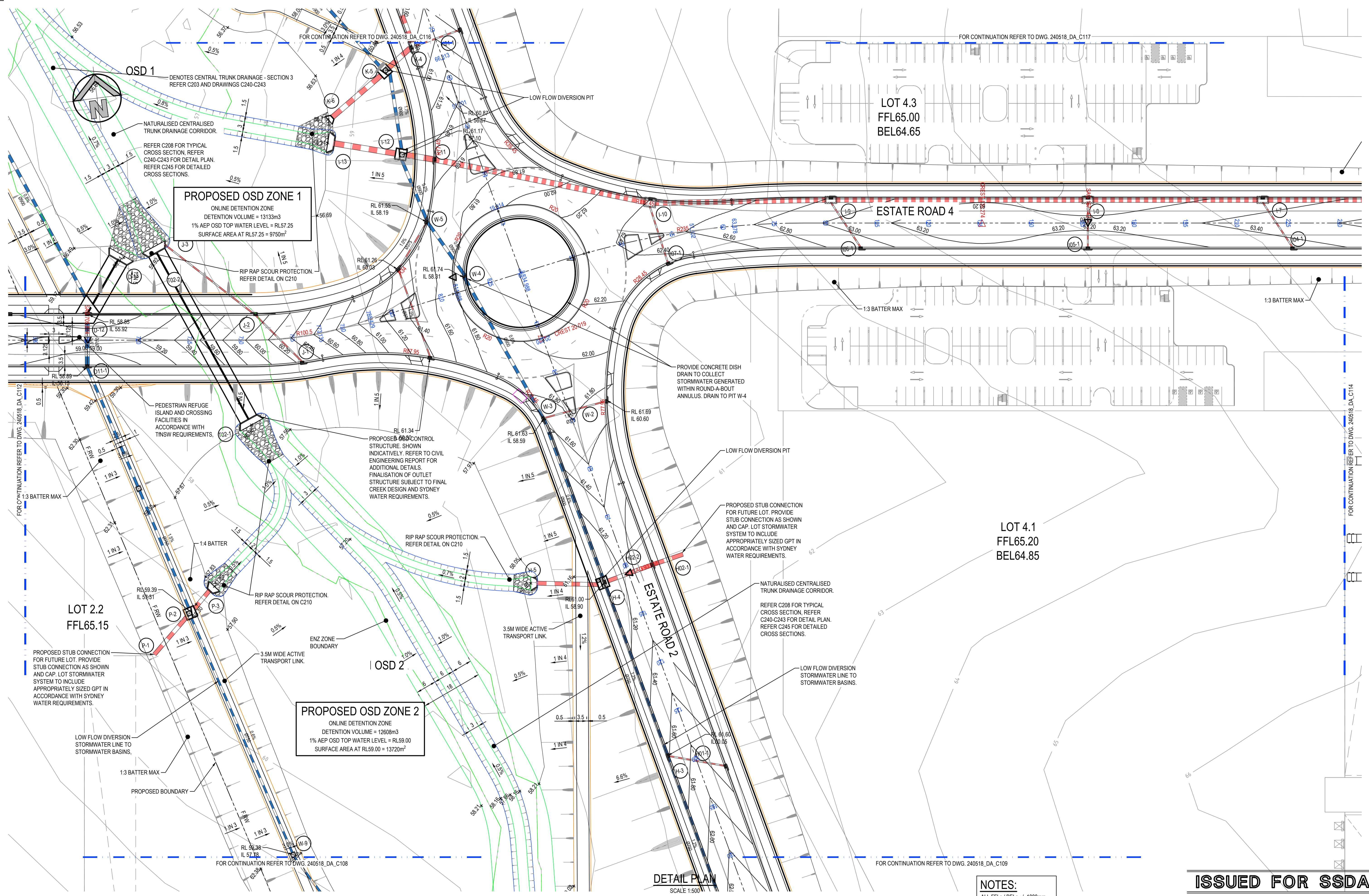
Approved
A.Francis

Scale @A1
1:500

Drawing number
240518_DA_C112

Revision
05

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PROPOSED OSD ZONE 1
 ONLINE DETENTION ZONE
 DETENTION VOLUME = 13133m³
 1% AEP OSD TOP WATER LEVEL = RL57.25
 SURFACE AREA AT RL57.25 = 9750m²

PROPOSED OSD ZONE 2
 ONLINE DETENTION ZONE
 DETENTION VOLUME = 12608m³
 1% AEP OSD TOP WATER LEVEL = RL59.00
 SURFACE AREA AT RL59.00 = 13720m²

DETAIL PLAN
 SCALE 1:500

NOTES:
 ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION		SURVEYED BY:		DATE	
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025	
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024	
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024	
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024	
01	ISSUED FOR CONCEPT	MP	NW	25.07.24	
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION

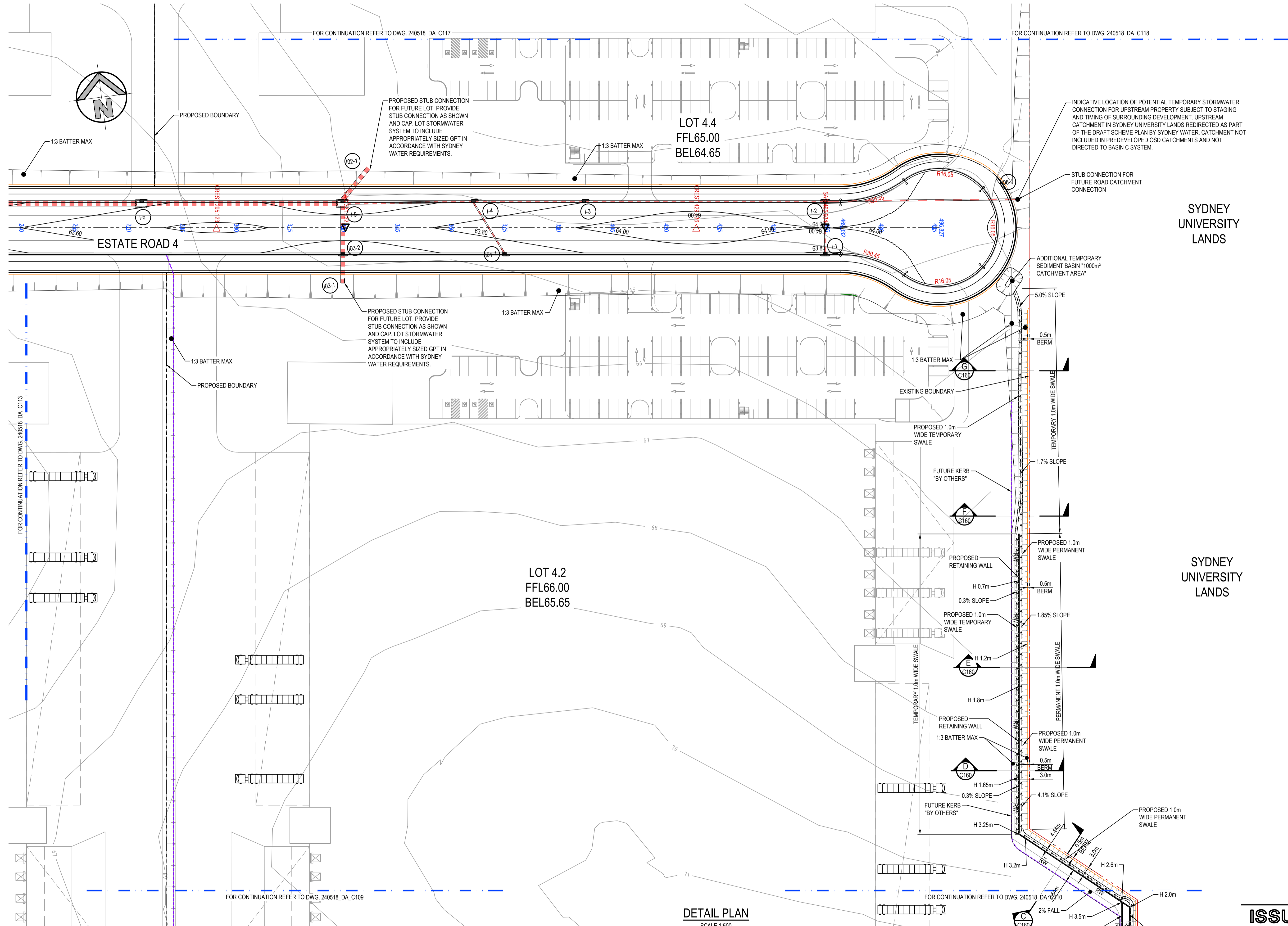
Client
HB&B Property Pty and ISPT Pty Ltd
 Architect / Surveyor
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Project
BURRAH PARK
 ELIZABETH DRIVE, BADGERYS CREEK, NSW
 Title
DETAIL PLAN SHEET 13 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:500
Drawing number	Revision	
240518_DA_C113	05	



SYDNEY UNIVERSITY LANDS

SYDNEY UNIVERSITY LANDS

DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 100mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PMZ5501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024
01	ISSUED FOR CONCEPT	MP	NW	25.07.24

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

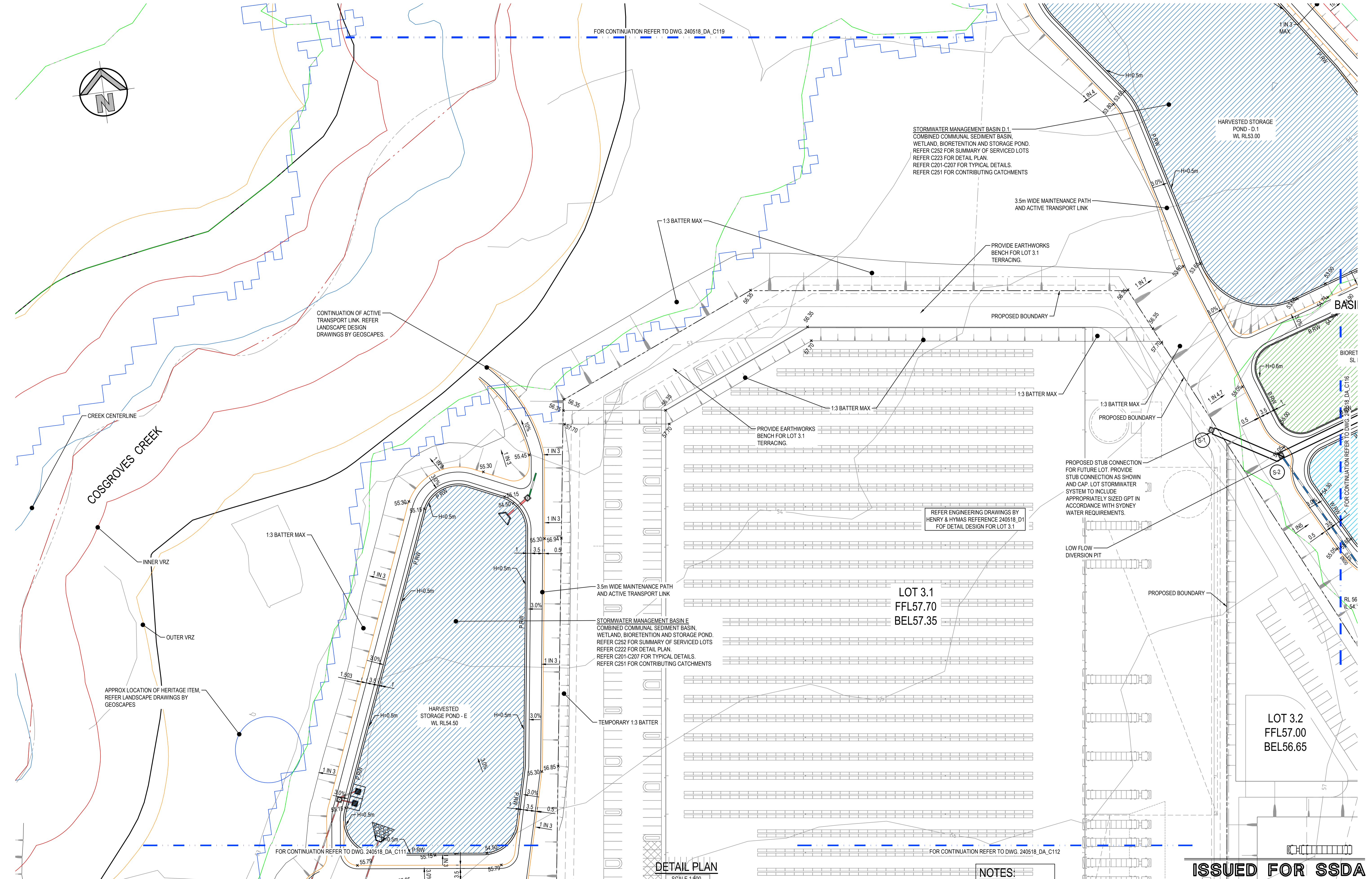
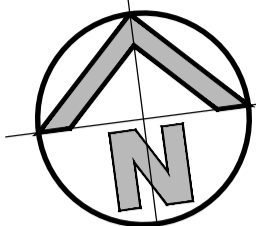
Title
DETAIL PLAN SHEET 14 OF 25

Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale @A1	1:500
Drawing number	240518_DA_C114			Revision	05

FOR CONTINUATION REFER TO DWG. 240518_DA_C119

STORMWATER MANAGEMENT BASIN D.1
COMBINED COMMUNAL SEDIMENT BASIN,
WETLAND, BIORETENTION AND STORAGE POND.
REFER C252 FOR SUMMARY OF SERVICED LOTS
REFER C223 FOR DETAIL PLAN.
REFER C201-C207 FOR TYPICAL DETAILS.
REFER C251 FOR CONTRIBUTING CATCHMENTS

HARVESTED STORAGE
POND - D.1
WL RL53.00



CONTINUATION OF ACTIVE
TRANSPORT LINK. REFER
LANDSCAPE DESIGN
DRAWINGS BY GEOSCAPES.

CREEK CENTERLINE
COSGROVES CREEK
INNER VRZ
OUTER VRZ

1:3 BATTER MAX

APPROX LOCATION OF HERITAGE ITEM,
REFER LANDSCAPE DRAWINGS BY
GEOSCAPES

FOR CONTINUATION REFER TO DWG. 240518_DA_C111

STORMWATER MANAGEMENT BASIN E
COMBINED COMMUNAL SEDIMENT BASIN,
WETLAND, BIORETENTION AND STORAGE POND.
REFER C252 FOR SUMMARY OF SERVICED LOTS
REFER C222 FOR DETAIL PLAN.
REFER C201-C207 FOR TYPICAL DETAILS.
REFER C251 FOR CONTRIBUTING CATCHMENTS

LOT 3.1
FFL57.70
BEL57.35

HARVESTED STORAGE POND - E
WL RL54.50

3.5m WIDE MAINTENANCE PATH
AND ACTIVE TRANSPORT LINK

TEMPORARY 1:3 BATTER

DETAIL PLAN
SCALE 1:500

FOR CONTINUATION REFER TO DWG. 240518_DA_C112

NOTES:
ALL FFLs / BELs +/- 1000mm

LOT 3.2
FFL57.00
BEL56.65

PROPOSED STUB CONNECTION
FOR FUTURE LOT. PROVIDE
STUB CONNECTION AS SHOWN
AND CAP. LOT STORMWATER
SYSTEM TO INCLUDE
APPROPRIATELY SIZED GPT IN
ACCORDANCE WITH SYDNEY
WATER REQUIREMENTS.

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	09.08.2025
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024
01	ISSUED FOR CONCEPT	MP	NW	25.07.24
DATUM: AHD				
ORIGIN OF LEVELS:				
PM25501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

Client
HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor

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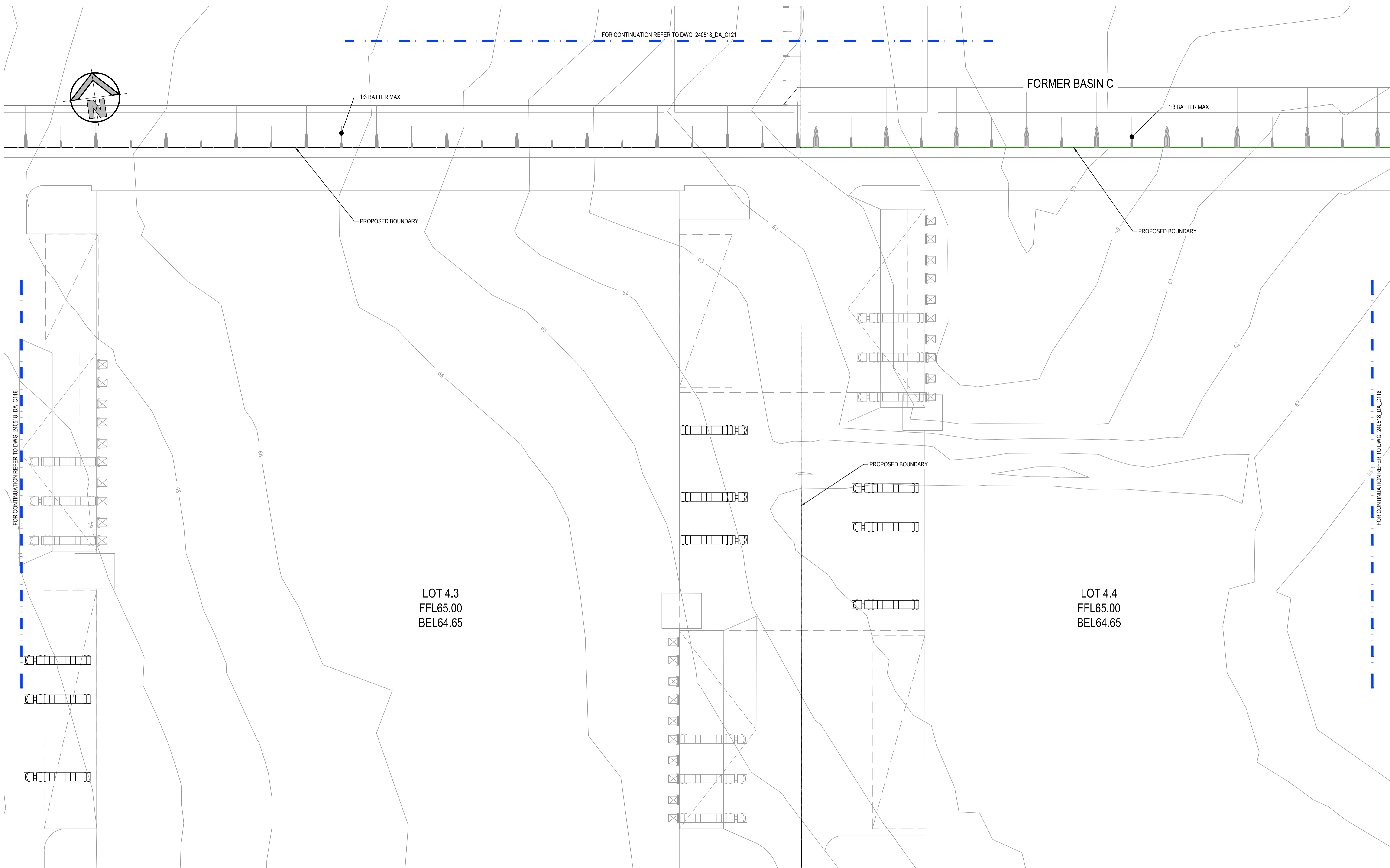
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 15 OF 25

Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C115		Revision 05



DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PM25501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024
01	ISSUED FOR CONCEPT	MP	NW	25.07.24

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
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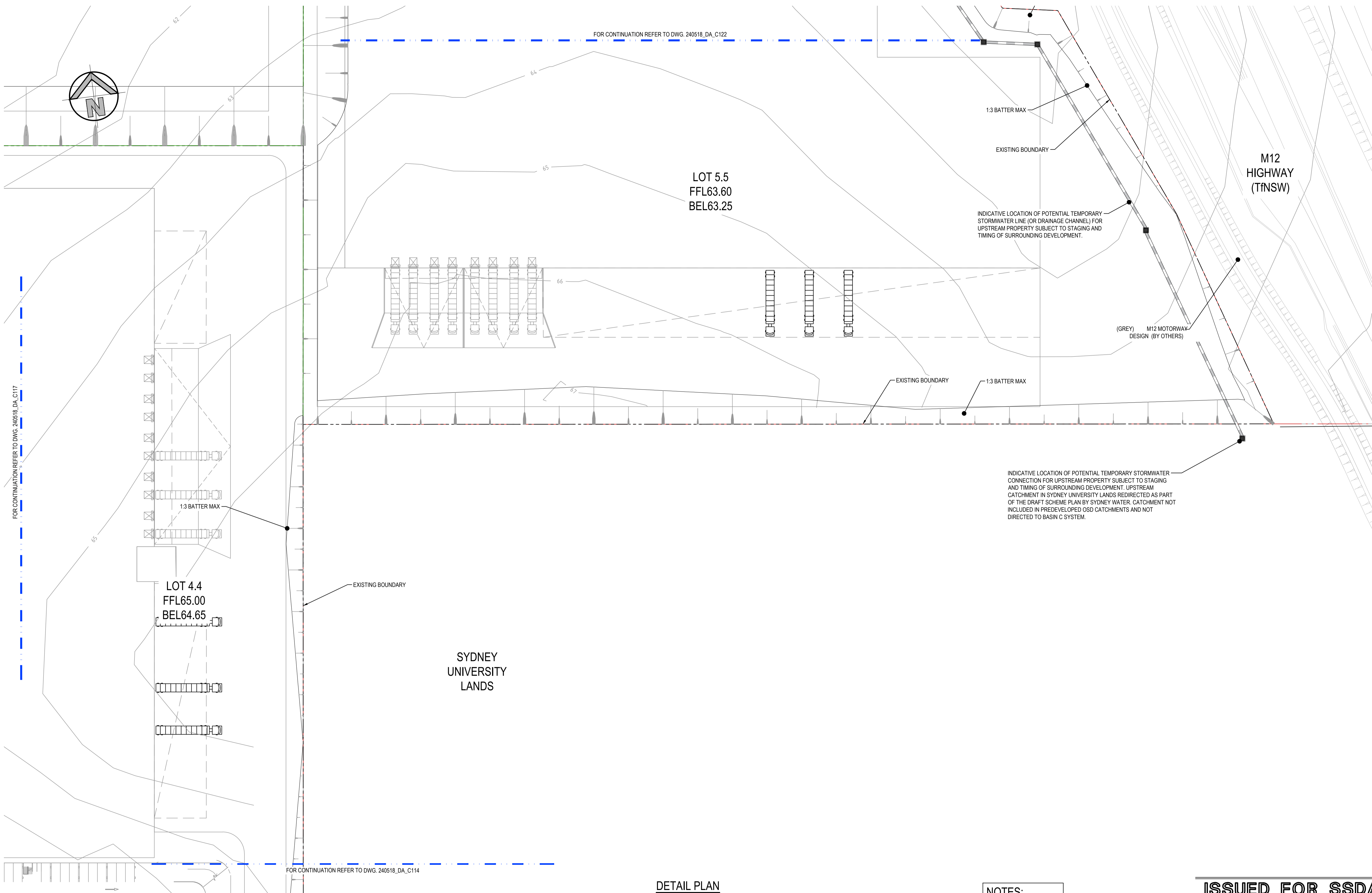


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 17 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C117		Revision 05

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DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION		REVISION				AMENDMENT				DRAWN				DESIGNED				DATE			
SURVEYED BY: L.TSL		06	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025															
DATUM: AHD		05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024															
ORIGIN OF LEVELS: PM25501, RL59.659		04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	15.10.2024															
		03	ISSUED FOR CONCEPT	MB	SY	13.09.2024															
		02	ISSUED FOR CONCEPT	MP	NW	16.08.2024															
		01	ISSUED FOR CONCEPT	MP	NW	25.07.24															

Client
HB&B Property Pty and ISPT Pty Ltd

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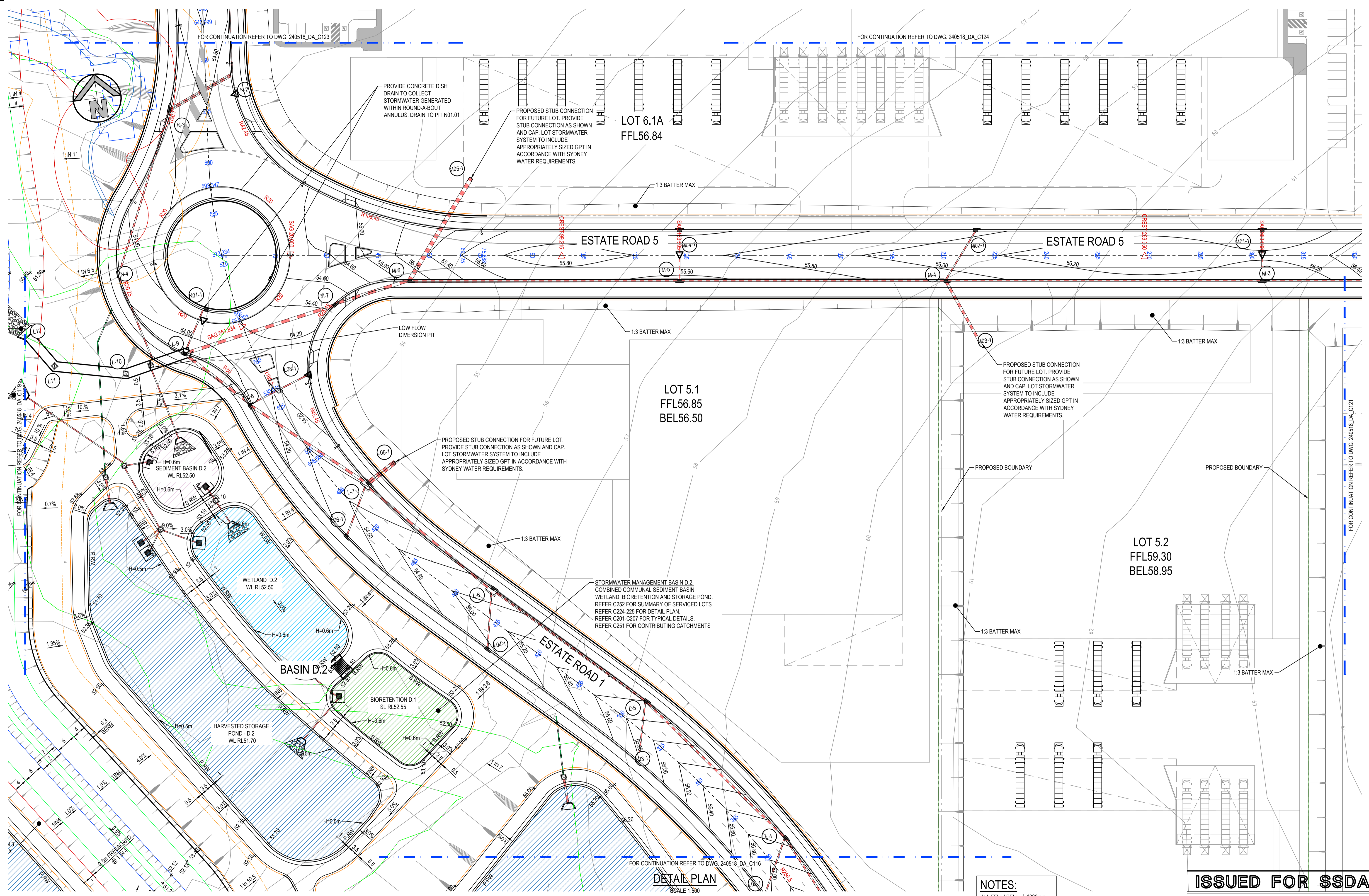


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 18 OF 25

Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C118		Revision 06

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DETAIL PLAN
SCALE 1:300

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PMZ5501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	09.06.2025
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024
01	ISSUED FOR CONCEPT	MP	NW	25.07.24

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
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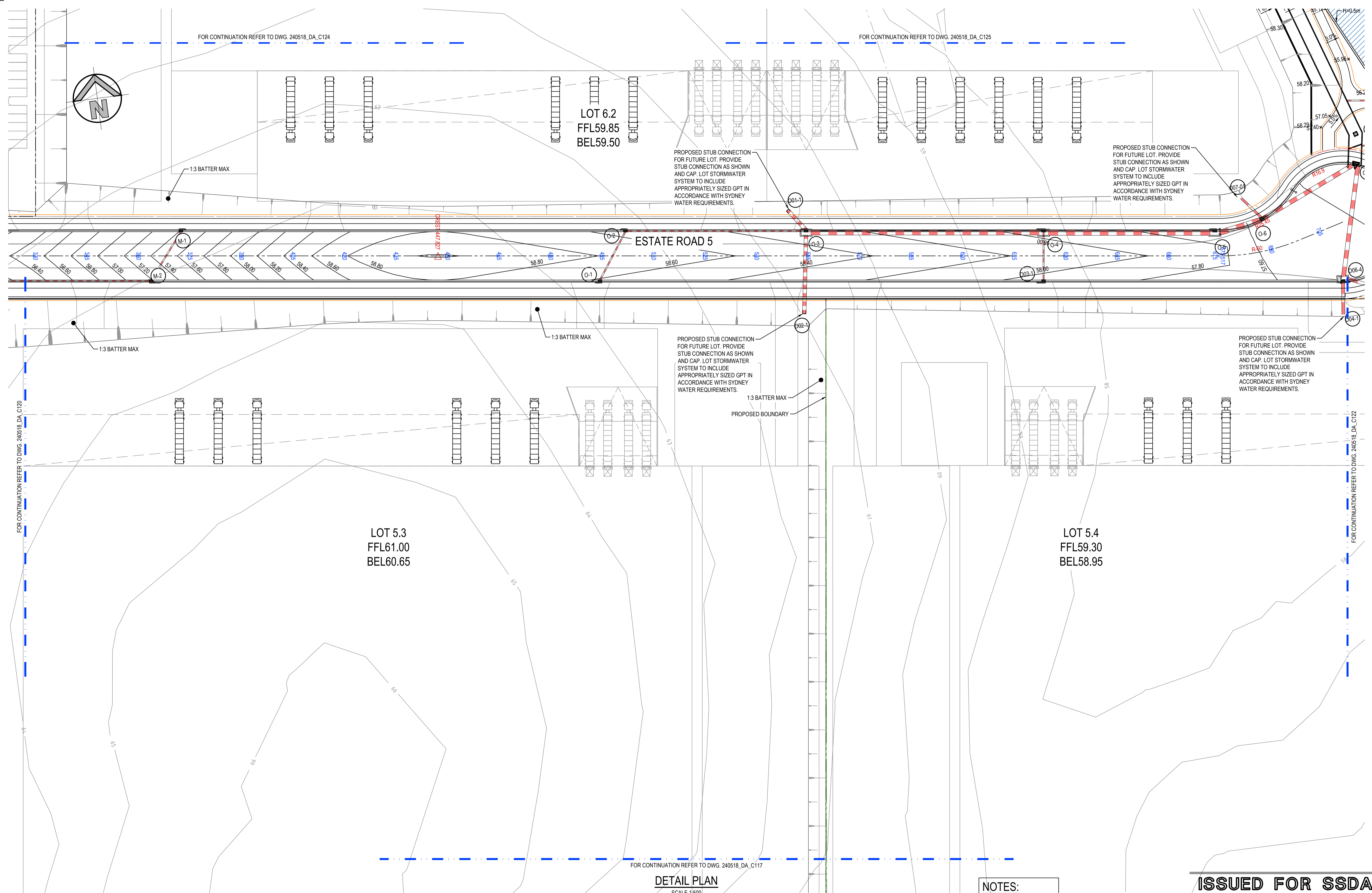
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 20 OF 25

Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C120	Revision 05	



DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: L.TSL				
DATUM: AHD				
ORIGIN OF LEVELS: PM25501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024
01	ISSUED FOR CONCEPT	MP	NW	25.07.24

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
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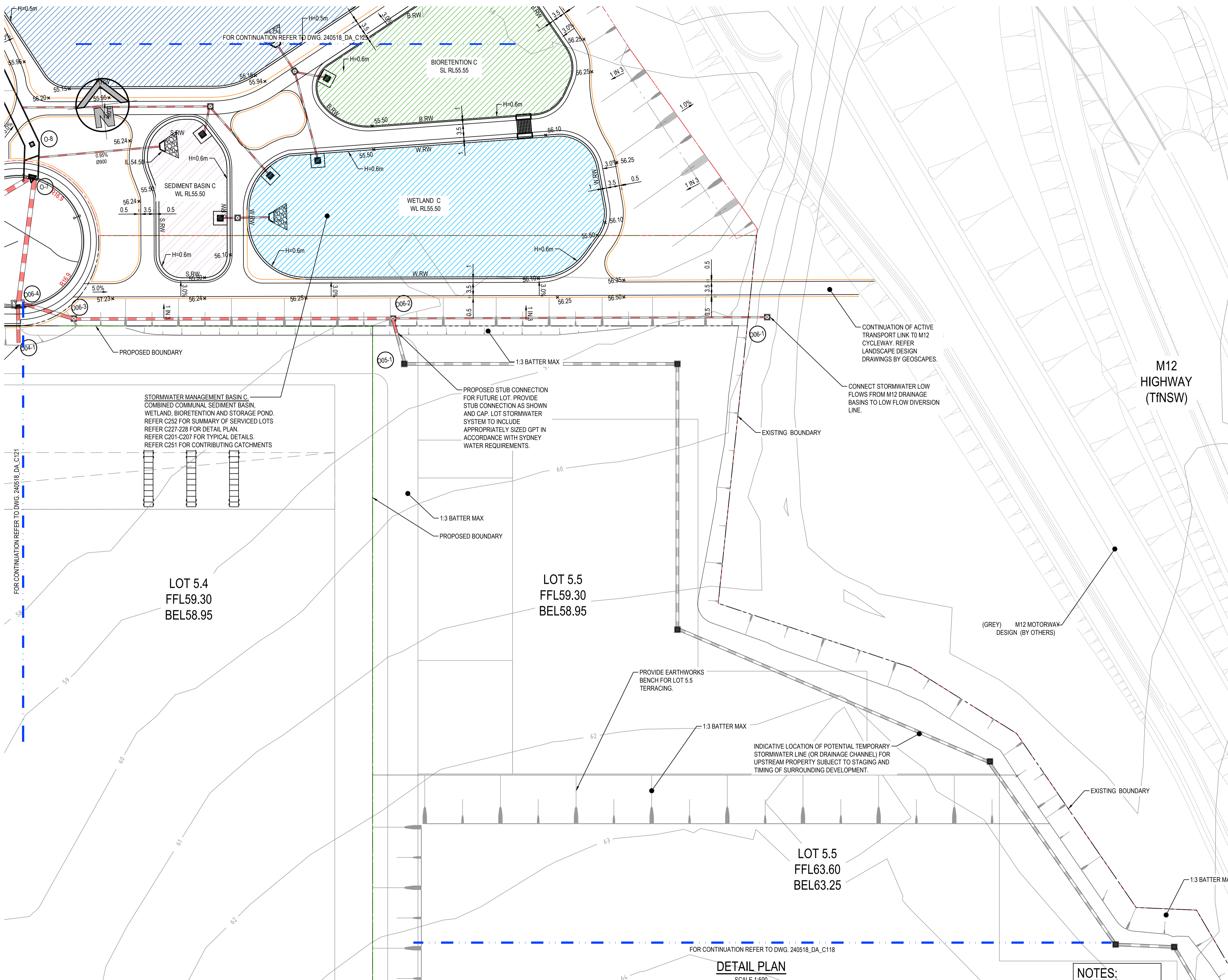
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 21 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:500
Drawing number 240518_DA_C121		Revision 05

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DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION	
SURVEYED BY: LTSL	
DATUM: AHD	
ORIGIN OF LEVELS: PMZ5501, RL59.659	

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	30.05.2025

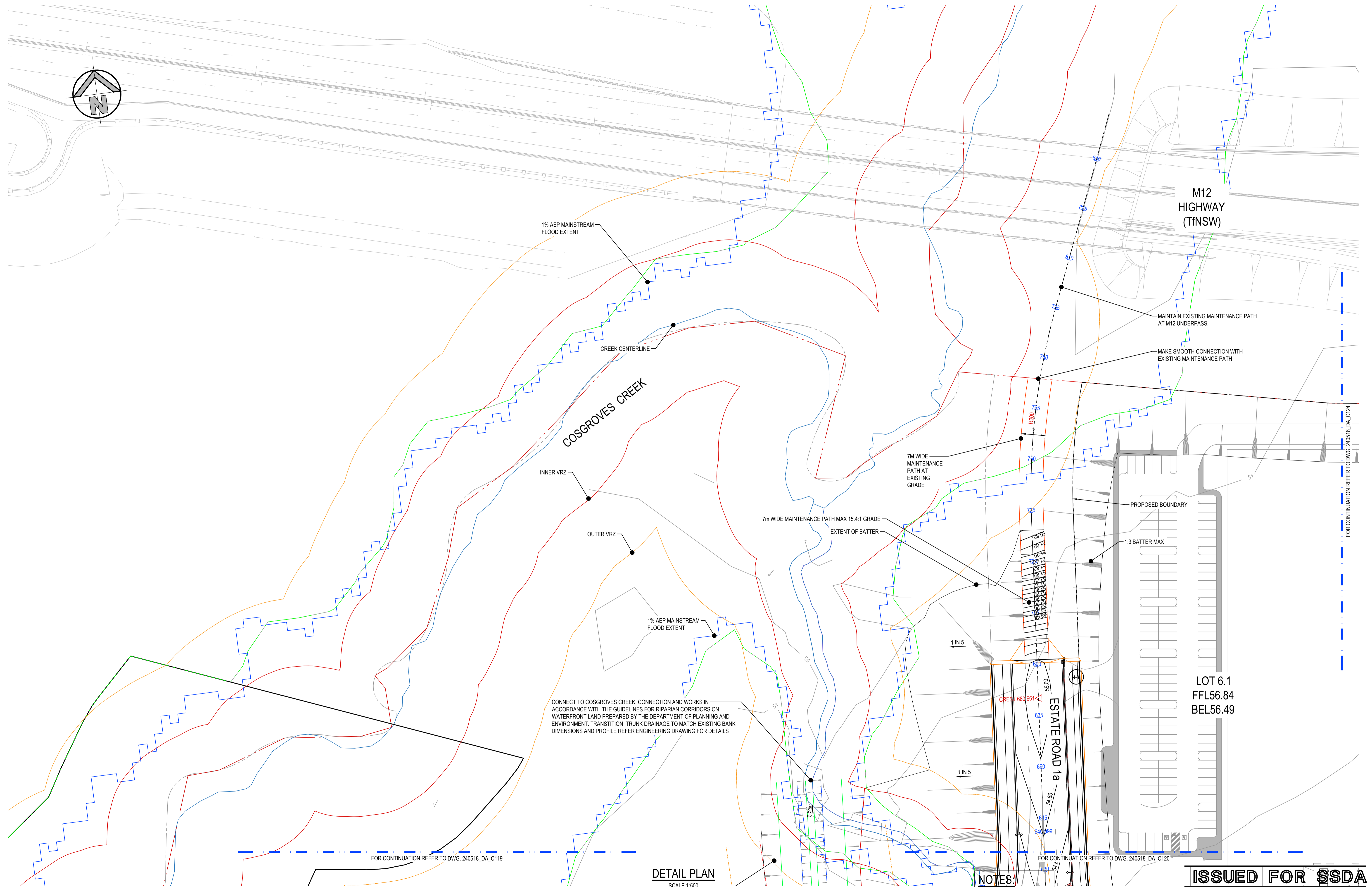
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Drawn	L.Caha
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Scale @A1	1:500
Drawing number	240518_DA_C122
Revision	02

DETAIL PLAN SHEET 21 OF 25	
DRAWING TO BE PRINTED IN COLOUR	



DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 100mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PMZ5501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	30.05.2025

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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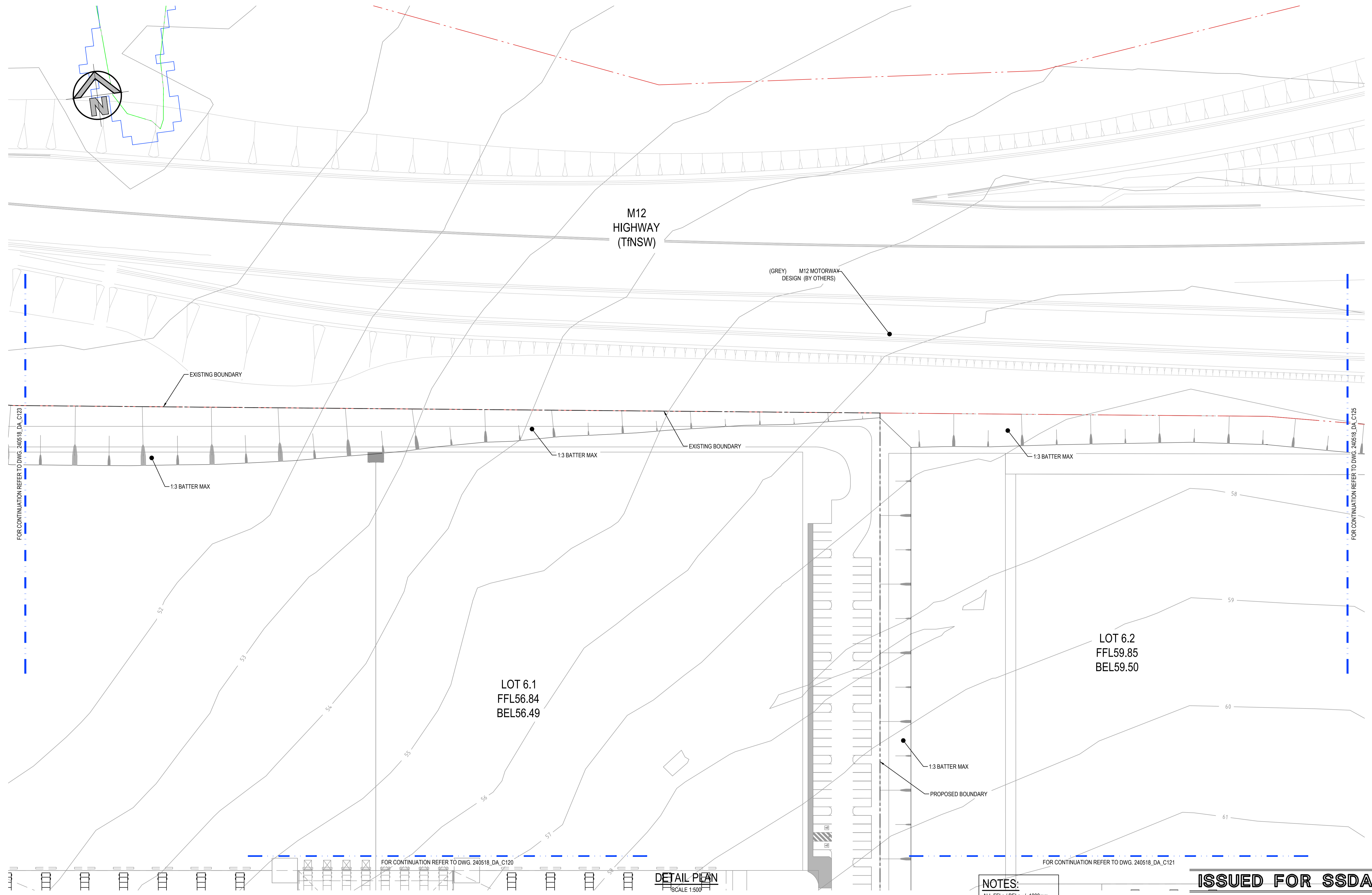
DRAWING TO BE PRINTED IN COLOUR



Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 21 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:500
Drawing number	Revision	
240518_DA_C123	02	



FOR CONTINUATION REFER TO DWG. 240518_DA_C123

FOR CONTINUATION REFER TO DWG. 240518_DA_C125

FOR CONTINUATION REFER TO DWG. 240518_DA_C120

FOR CONTINUATION REFER TO DWG. 240518_DA_C121

DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 1000mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PM25501, RL59.659				
REVISION	AMENDMENT	DESIGNED	DATE	REVISION
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	30.05.2025

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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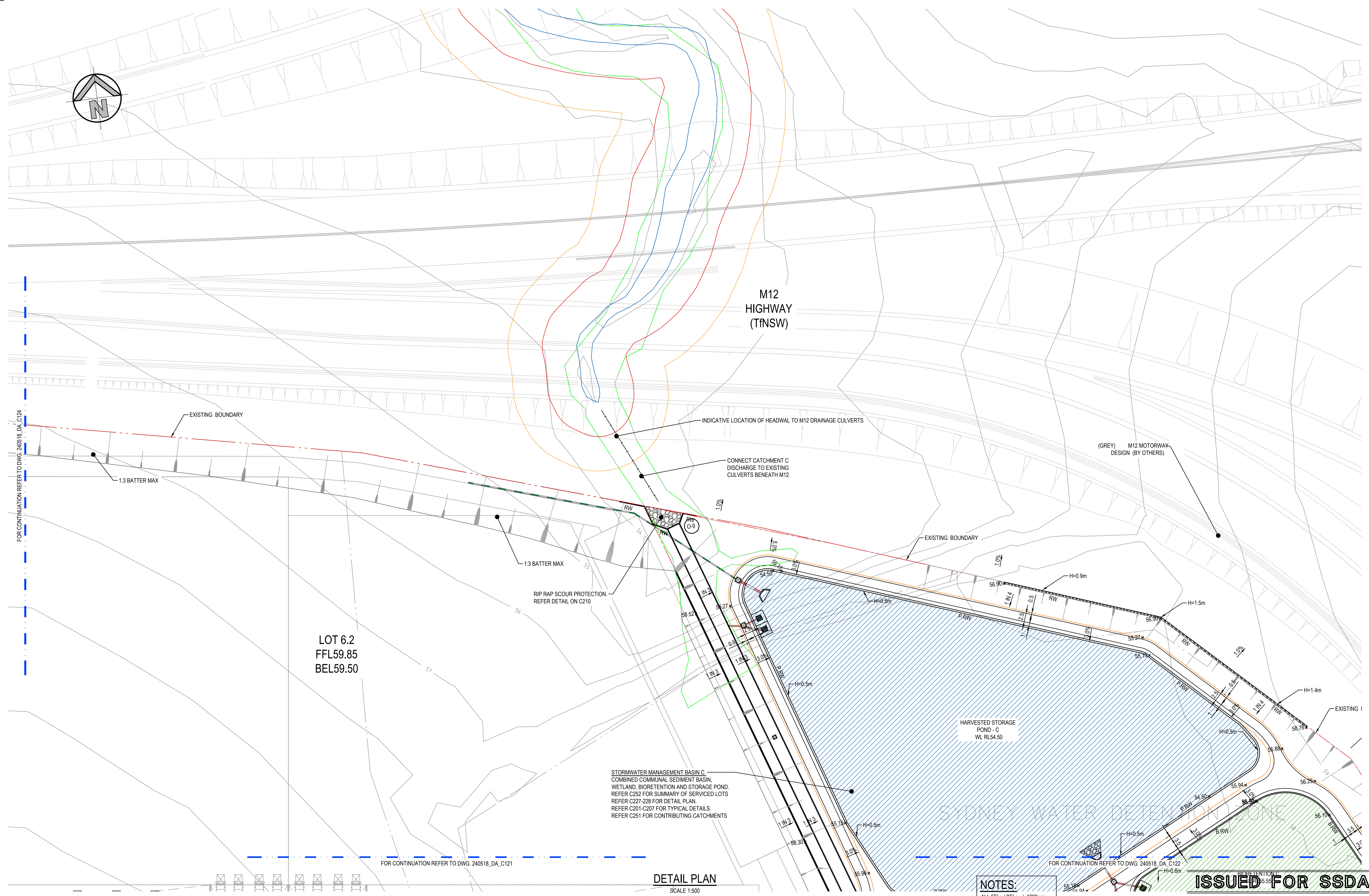


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 21 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:500
Drawing number	Revision	
240518_DA_C124	02	

Plot File: P:\2025\240518\240518_DA_C124_C125.DWG - 240518_DA_C124_C125.dwg - DATE PRINTED: 06/06/2025 14:27:04



DETAIL PLAN
SCALE 1:500

NOTES:
ALL FFLs / BELs +/- 100mm

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
REVISION	AMENDMENT	DESIGNED	DATE	REVISION
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	30.05.2025

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
NETTLETONTRIBE

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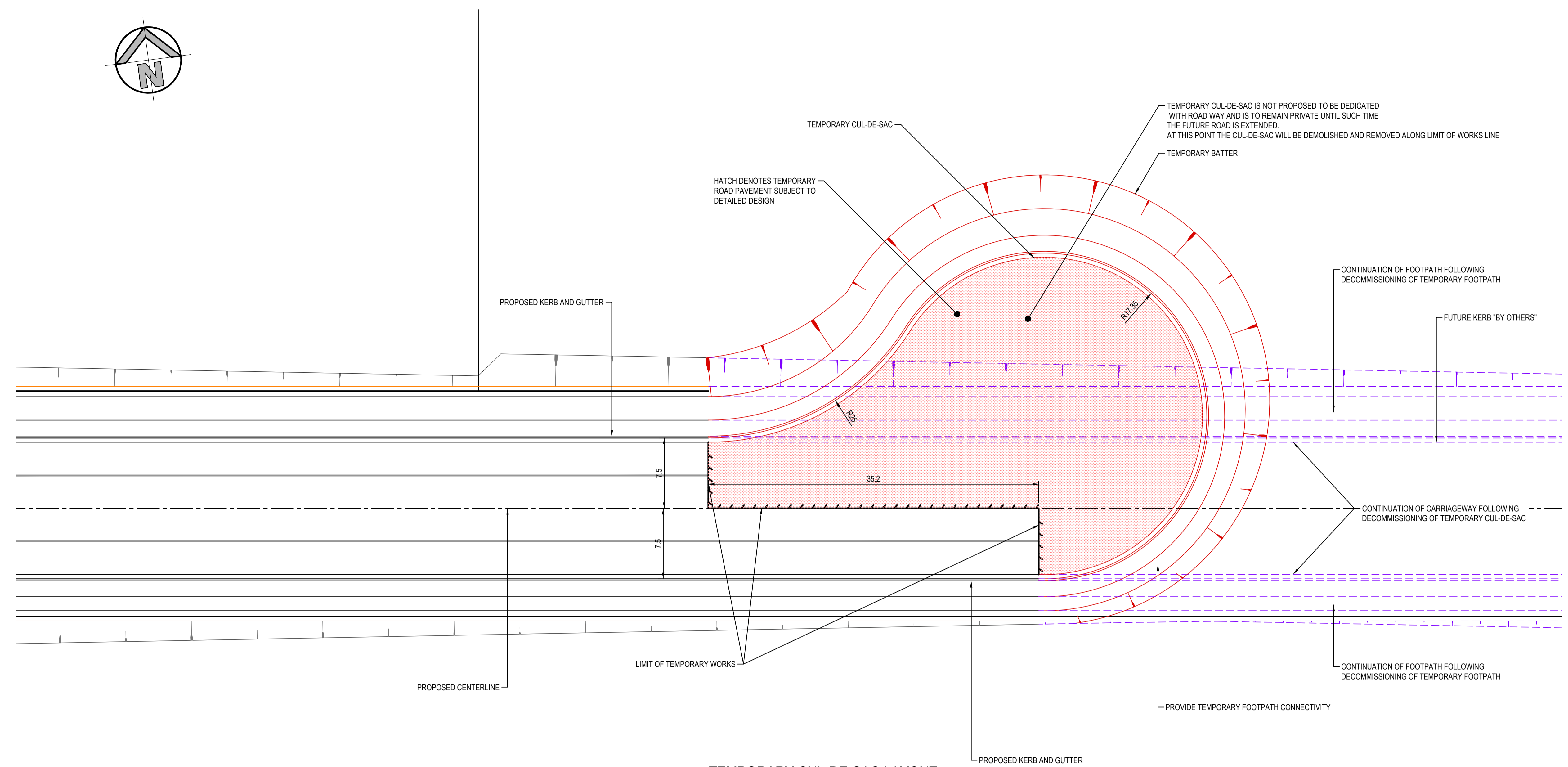
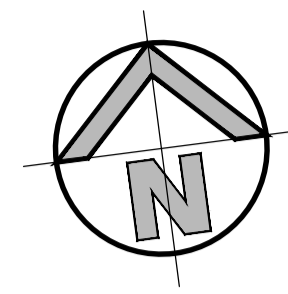


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
DETAIL PLAN SHEET 21 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:500
Drawing number	Revision	
240518_DA_C125	02	

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TEMPORARY CUL-DE-SAC LAYOUT

SCALE 1:250

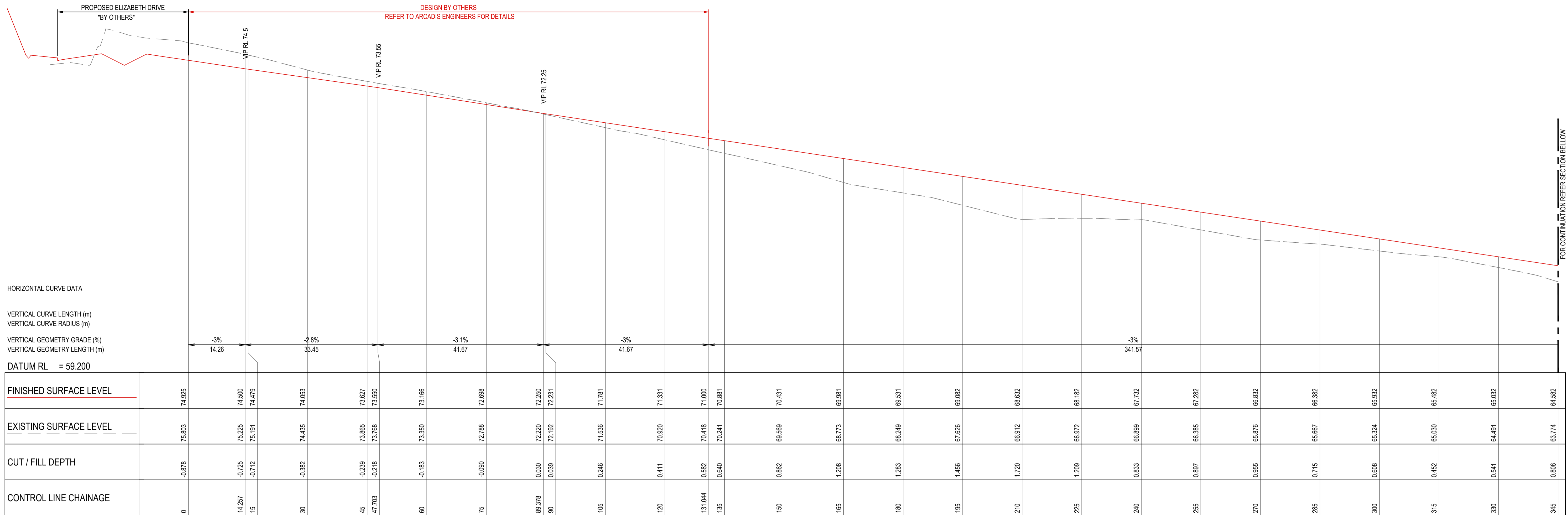
NOTE: STORMWATER NOT SHOWN. TEMPORARY STORMWATER ARRANGEMENTS MAY BE REQUIRED SUBJECT TO SITE STAGING AND DETAILED DESIGN.



ISSUED FOR SSSA

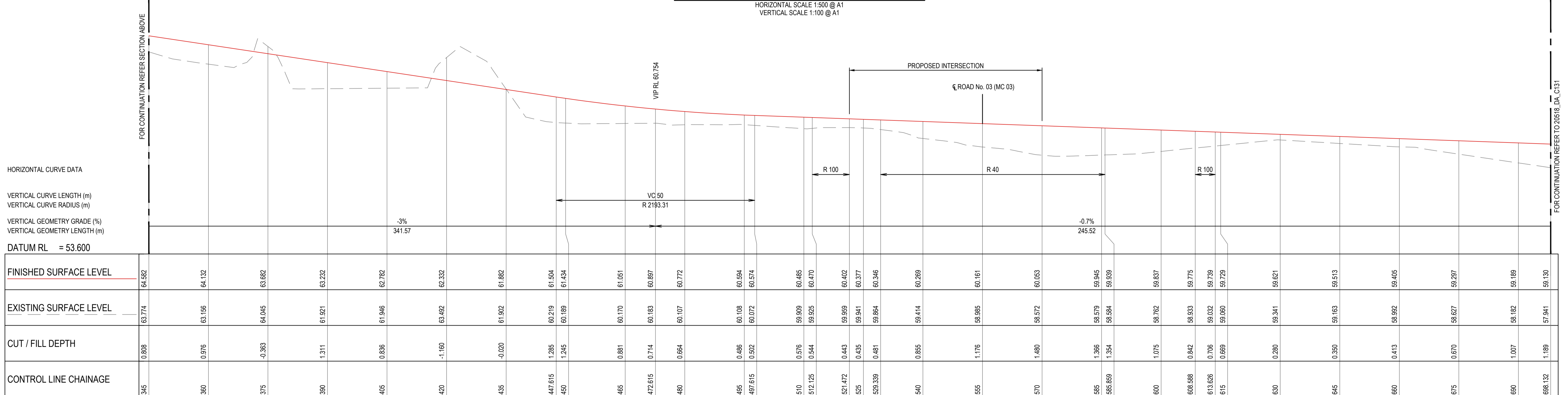
SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659				Client HB&B Property Pty and ISPT Pty Ltd Archibald / Surveyor NETTLETONTRIBE				Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hconsult.com.au Web www.henryandhymas.com.au		Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW		Drawn L.Caha Checked N.Wetzlar		Designed N.Wetzlar Approved A.Francis		Original issue date 45413 Scale: B/A1 1:250	
01 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) JG NW 06.06.2025				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				DRAWING TO BE PRINTED IN COLOUR		Title TEMPORARY CUL DE SAC PLAN		Drawing number 240518_DA_C129		Revision 01			

P:\Projects\240518_Burrah Park\240518_Burrah Park\240518_Burrah Park\240518_Burrah Park.dwg (1:250) - 06/06/2025 10:02:14 AM



ROAD No.01 MC 01 LONGITUDINAL SECTION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

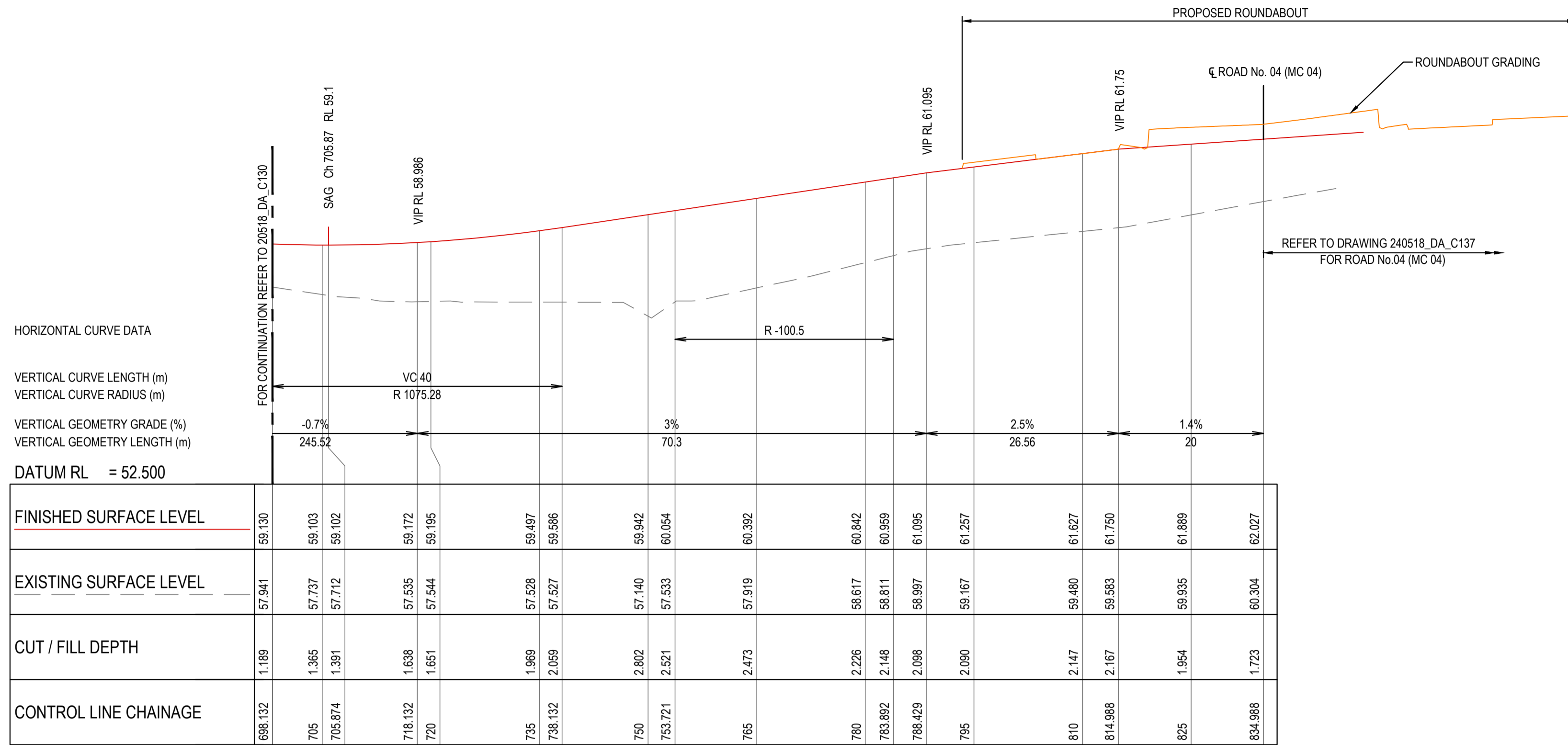


ROAD No.01 - MC 01 LONGITUDINAL SECTION - CONTINUATION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hnyandh.com.au Web: www.henryandhymas.com.au DRAWING TO BE PRINTED IN COLOUR				Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: ROAD LONGITUDINAL SECTIONS ROAD No. 01 (MC 01)				Drawn: L.Caha Checked: N.Wetzlar Drawing number: 240518_DA_C130				Designed: N.Wetzlar Approved: A.Francis Scale: @A1 AS SHOWN Revision: 04				Original issue date: 45413			
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HORIZONTAL CURVE DATA

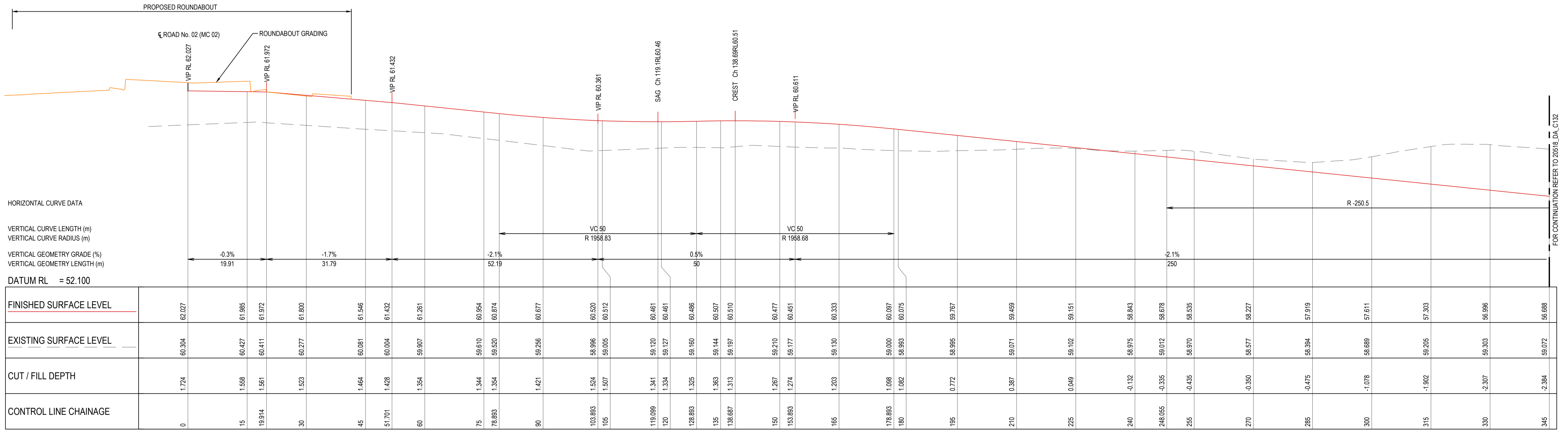
VERTICAL CURVE LENGTH (m)
 VERTICAL CURVE RADIUS (m)
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 52.500

FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CUT / FILL DEPTH	CONTROL LINE CHAINAGE
59.130	57.941	1.189	688.132
59.103	57.737	1.365	705
59.102	57.712	1.391	705.874
59.172	57.535	1.638	718.132
59.195	57.544	1.651	720
59.497	57.528	1.969	735
59.596	57.527	2.069	738.132
59.942	57.140	2.802	750
60.054	57.533	2.521	753.721
60.392	57.919	2.473	765
60.842	58.617	2.226	780
60.959	58.811	2.148	783.892
61.095	58.997	2.098	788.429
61.257	59.167	2.090	795
61.627	59.480	2.147	810
61.750	59.593	2.167	814.988
61.889	59.935	1.954	825
62.027	60.304	1.723	834.988

ROAD No.01 - MC 01 LONGITUDINAL SECTION - CONTINUATION

HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
 VERTICAL CURVE RADIUS (m)
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 52.100

FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CUT / FILL DEPTH	CONTROL LINE CHAINAGE
62.027	60.304	1.724	0
61.985	60.427	1.558	15
61.972	60.411	1.561	19.914
61.800	60.277	1.523	30
61.546	60.081	1.464	45
61.432	60.004	1.428	51.701
61.261	59.907	1.354	60
60.954	59.610	1.344	75
60.874	59.520	1.354	78.893
60.677	59.256	1.421	90
60.520	58.996	1.524	103.893
60.512	59.005	1.507	105
60.461	59.120	1.341	119.099
60.461	59.127	1.334	120
60.406	59.160	1.245	128.893
60.507	59.144	1.363	135
60.510	59.197	1.313	138.687
60.477	59.210	1.267	150
60.451	59.177	1.274	153.893
60.333	59.130	1.203	165
60.097	59.000	1.096	178.893
60.075	58.993	1.082	180
59.767	58.995	0.772	195
59.459	59.071	0.387	210
59.151	59.102	0.049	225
58.843	58.975	-0.132	240
58.678	59.012	-0.335	248.055
58.535	58.970	-0.435	255
58.227	58.577	-0.350	270
57.919	58.394	-0.475	285
57.611	58.689	-1.078	300
57.303	59.205	-1.902	315
56.996	59.303	-2.307	330
56.698	59.072	-2.384	345

ROAD No.01a - MC 01a LONGITUDINAL SECTION

HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PMZ5501, RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
03	ISSUED FOR DRAFT	JS	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY
01	ISSUED FOR CONCEPT	LC	NW
REVISION	AMENDMENT	DATE	REVISION

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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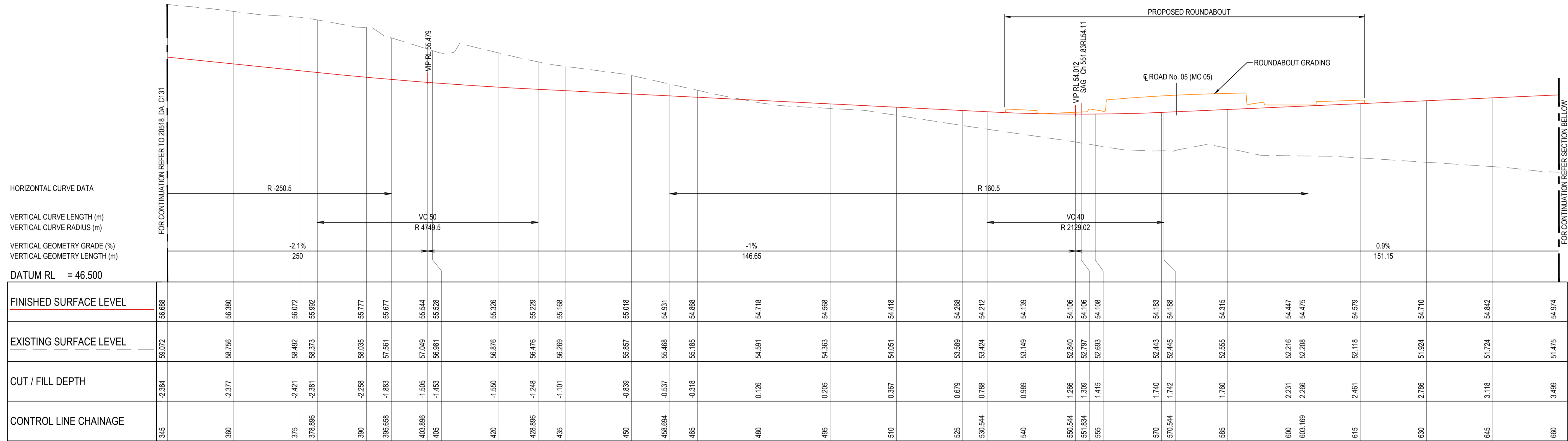
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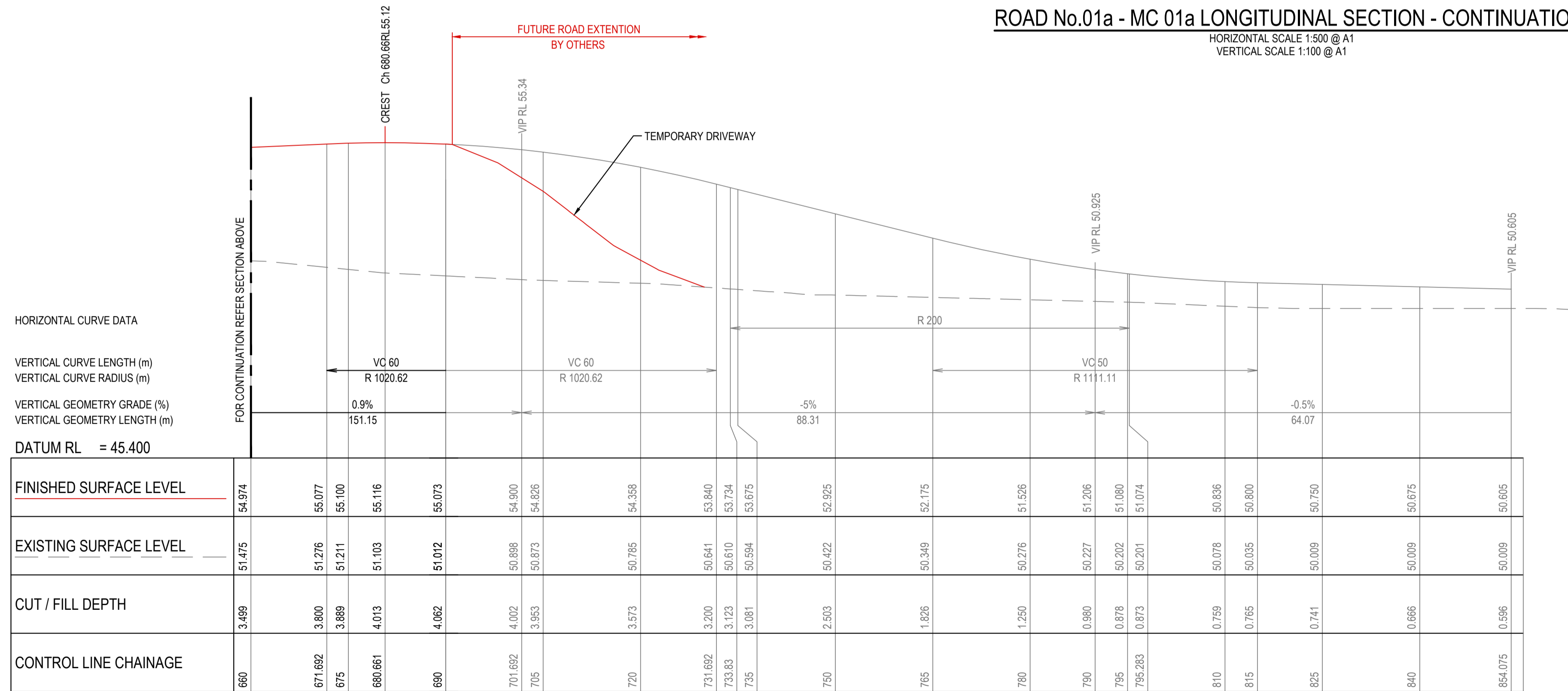
Project	
BURRAH PARK	
ELIZABETH DRIVE, BADGERYS CREEK, NSW	
Title	
ROAD LONGITUDINAL SECTIONS ROAD No.01 (MC 01) & ROAD No.01a (MC 01a)	

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	AS SHOWN
Drawing number	Revision	
240518_DA_C131	04	



ROAD No.01a - MC 01a LONGITUDINAL SECTION - CONTINUATION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ROAD No.01a - MC 01a LONGITUDINAL SECTION - CONTINUATION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
03	ISSUED FOR DRAFT	JS	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY
01	ISSUED FOR CONCEPT	LC	NW
ORIGIN OF LEVELS:	PM25501_RL59.659		
REVISION	AMENDMENT	DRAWN	DESIGNED

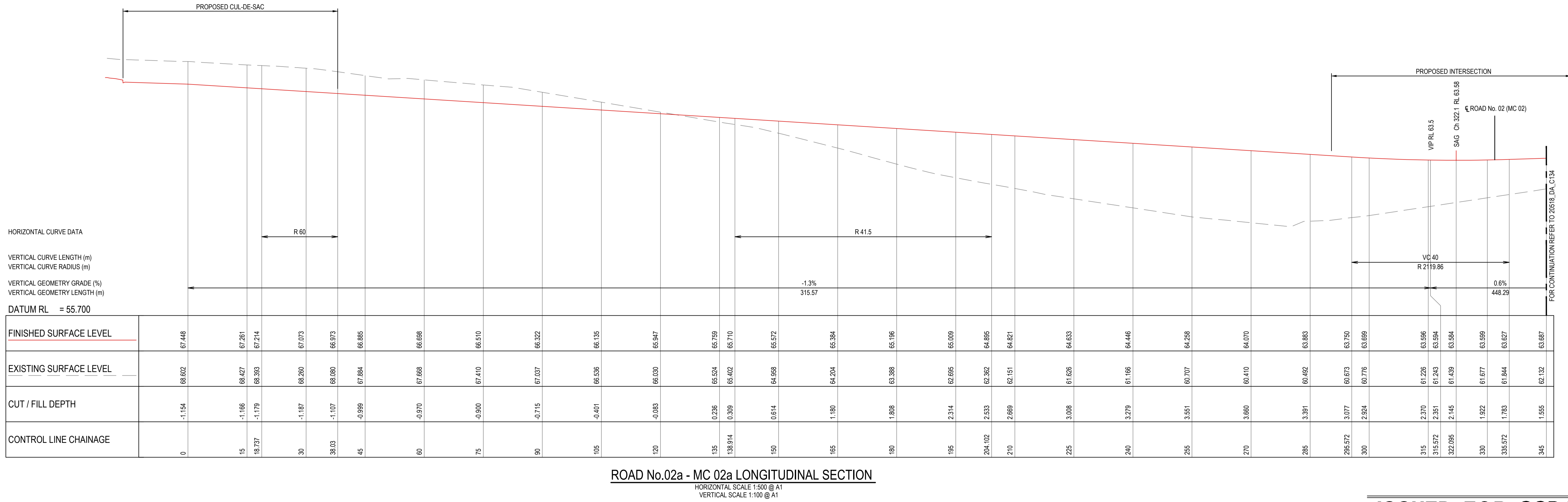
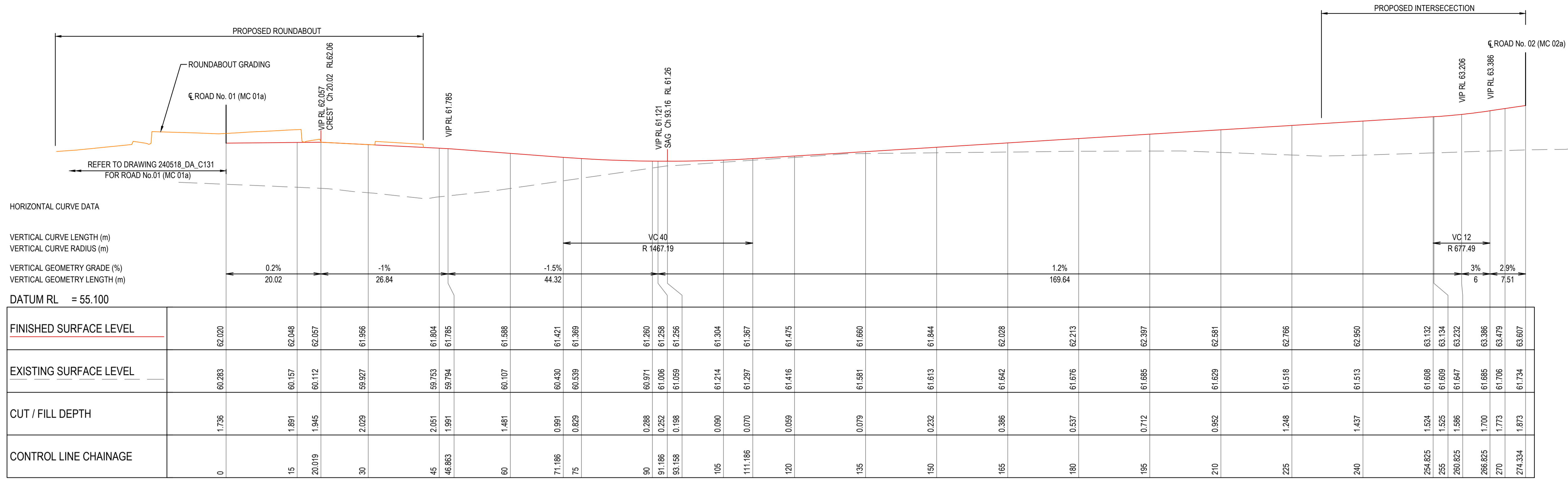
Client			
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Architect / Surveyor			
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Project	
BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW	
Title ROAD LONGITUDINAL SECTIONS ROAD No. 01a (MC 01a)	

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	AS SHOWN
Drawing number	Revision	
240518_DA_C132	04	



ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PMZ5501, RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
03	ISSUED FOR DRAFT	JS	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY
01	ISSUED FOR CONCEPT	LC	NW

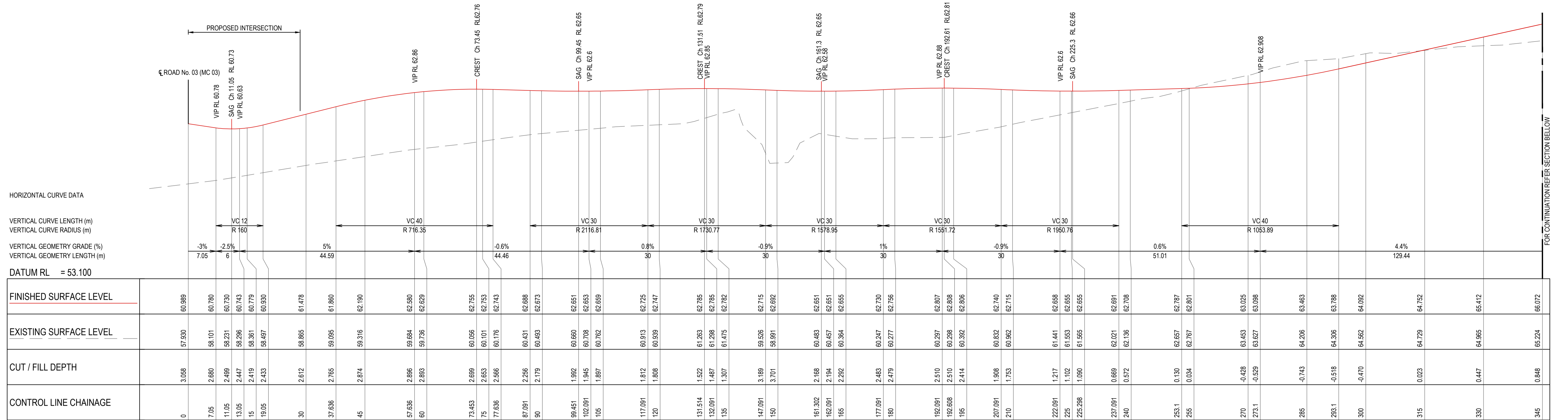
Client: **HB&B Property Pty and ISPT Pty Ltd**
 Archibag / Supervisor: **NETTLETONTRIBE**
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Project: **BURRAH PARK**
 ELIZABETH DRIVE, BADGERYS CREEK, NSW
 Title: **ROAD LONGITUDINAL SECTIONS ROAD No.02 (MC 02) & ROAD No.02a (MC 02a)**

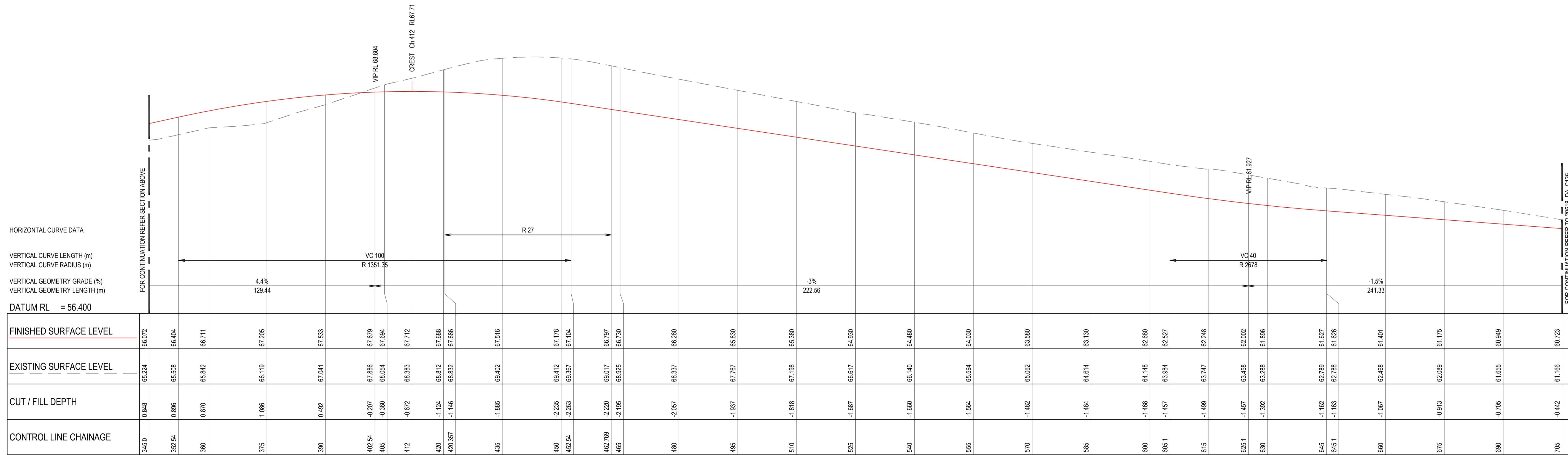
Drawn	Designed	Original issue date
N.Wetzlar	N.Wetzlar	45413
N.Wetzlar	A.Francis	Scale @ A1
AS SHOWN		
Drawing number: 240518_DA_C133		Revision: 04



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL CURVE RADIUS (m)
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GEOMETRY LENGTH (m)
 DATUM RL = 53.100

CHAINAGE	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CUT / FILL DEPTH	CONTROL LINE CHAINAGE
0	60.989	57.930	3.059	0
7.05	60.780	58.101	2.680	7.05
11.05	60.730	58.231	2.499	11.05
13.05	60.743	58.296	2.447	13.05
15	60.779	58.361	2.419	15
19.05	60.930	58.497	2.433	19.05
30	61.478	58.865	2.612	30
37.636	61.860	59.095	2.765	37.636
45	62.190	59.516	2.674	45
57.636	62.590	59.684	2.896	57.636
60	62.629	59.736	2.893	60
73.453	62.755	60.056	2.699	73.453
75	62.753	60.101	2.653	75
77.636	62.743	60.176	2.566	77.636
87.091	62.688	60.431	2.256	87.091
90	62.673	60.493	2.179	90
99.451	62.651	60.600	1.992	99.451
102.091	62.653	60.708	1.945	102.091
105	62.659	60.762	1.897	105
117.091	62.725	60.913	1.812	117.091
120	62.747	60.939	1.808	120
131.514	62.785	61.263	1.522	131.514
132.091	62.785	61.298	1.487	132.091
135	62.782	61.475	1.307	135
147.091	62.715	59.526	3.189	147.091
150	62.692	58.891	3.701	150
161.302	62.651	60.483	2.168	161.302
162.091	62.651	60.457	2.194	162.091
165	62.655	60.364	2.292	165
177.091	62.730	60.247	2.483	177.091
180	62.756	60.277	2.479	180
192.091	62.807	60.297	2.510	192.091
192.608	62.808	60.298	2.510	192.608
195	62.806	60.392	2.414	195
207.091	62.740	60.832	1.908	207.091
210	62.715	60.962	1.753	210
222.091	62.658	61.441	1.217	222.091
225	62.655	61.553	1.102	225
225.298	62.655	61.595	1.090	225.298
237.091	62.691	62.021	0.669	237.091
240	62.708	62.136	0.572	240
253.1	62.787	62.657	0.130	253.1
255	62.801	62.767	0.034	255
270	63.025	63.453	-0.428	270
273.1	63.086	63.527	-0.529	273.1
285	63.463	64.206	-0.743	285
293.1	63.788	64.306	-0.518	293.1
300	64.092	64.562	-0.470	300
315	64.752	64.729	0.023	315
330	65.412	64.965	0.447	330
345	66.072	65.224	0.848	345

ROAD No.03 - MC 03 LONGITUDINAL SECTION
 HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL CURVE RADIUS (m)
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GEOMETRY LENGTH (m)
 DATUM RL = 56.400

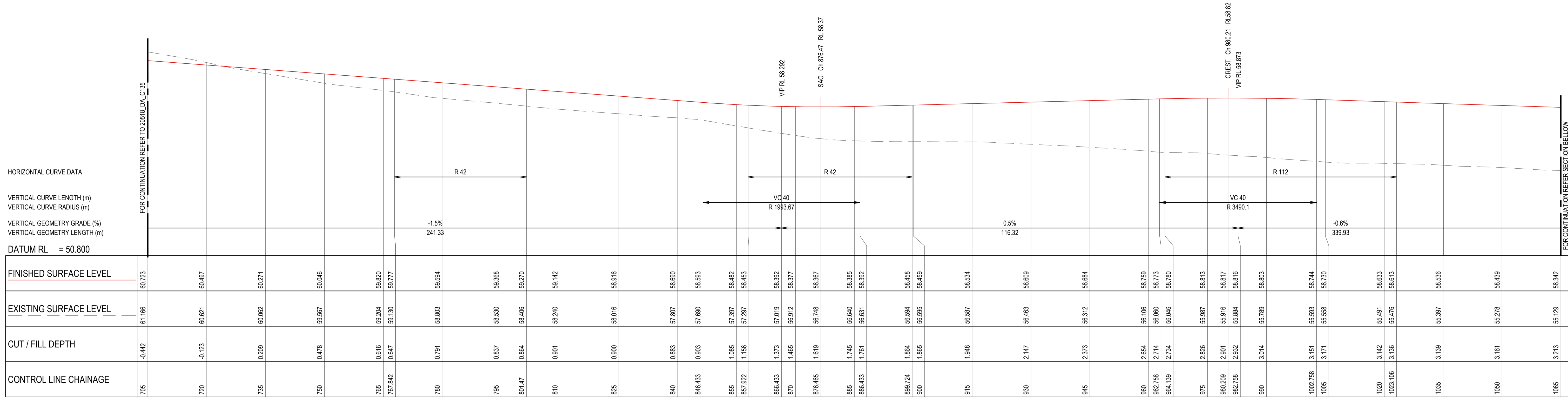
CHAINAGE	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CUT / FILL DEPTH	CONTROL LINE CHAINAGE
345.0	66.072	65.224	0.848	345.0
352.54	66.404	65.506	0.896	352.54
360	66.711	65.842	0.870	360
375	67.205	66.119	1.086	375
390	67.533	67.041	0.492	390
402.54	67.679	67.686	-0.207	402.54
405	67.694	68.054	-0.360	405
412	67.712	68.383	-0.672	412
420	67.688	68.812	-1.124	420
420.357	67.686	68.832	-1.146	420.357
435	67.516	69.402	-1.885	435
450	67.178	69.412	-2.235	450
452.54	67.104	69.367	-2.263	452.54
462.769	66.797	69.017	-2.220	462.769
465	66.730	68.925	-2.195	465
480	66.280	68.337	-2.057	480
495	65.930	67.767	-1.837	495
510	65.380	67.198	-1.818	510
525	64.930	66.617	-1.687	525
540	64.480	66.140	-1.660	540
555	64.030	65.594	-1.564	555
570	63.580	65.062	-1.482	570
585	63.130	64.614	-1.484	585
600	62.680	64.148	-1.468	600
605.1	62.527	63.984	-1.457	605.1
615	62.248	63.747	-1.499	615
625.1	62.002	63.458	-1.457	625.1
630	61.896	63.288	-1.392	630
645	61.627	62.789	-1.162	645
645.1	61.626	62.788	-1.163	645.1
660	61.401	62.468	-1.067	660
675	61.175	62.089	-0.913	675
690	60.949	61.655	-0.705	690
705	60.723	61.166	-0.442	705

ROAD No.03 - MC 03 LONGITUDINAL SECTION - CONTINUATION
 HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1

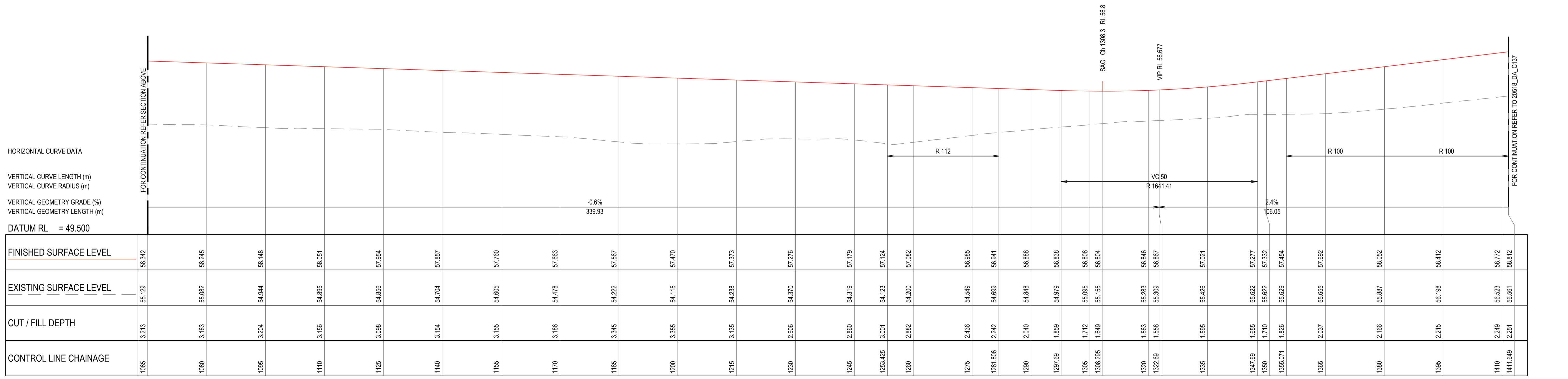
ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hhoonsuit.com.au Web: www.henryandhymas.com.au				Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: ROAD LONGITUDINAL SECTIONS ROAD No. 03 (MC 03)				Drawn: L.Caha Designed: N.Wetzlar Checked: N.Wetzlar Approved: A.Francis Drawing number: 240518_DA_C135 Original issue date: 45413 Scale: @A1 AS SHOWN Revision: 04			
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	08.06.2025															
03	ISSUED FOR DRAFT	JS	NW	30.05.25															
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024															
01	ISSUED FOR CONCEPT	LC	NW	25.07.24															
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE										

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 PLOTTER: HP DesignJet T1300




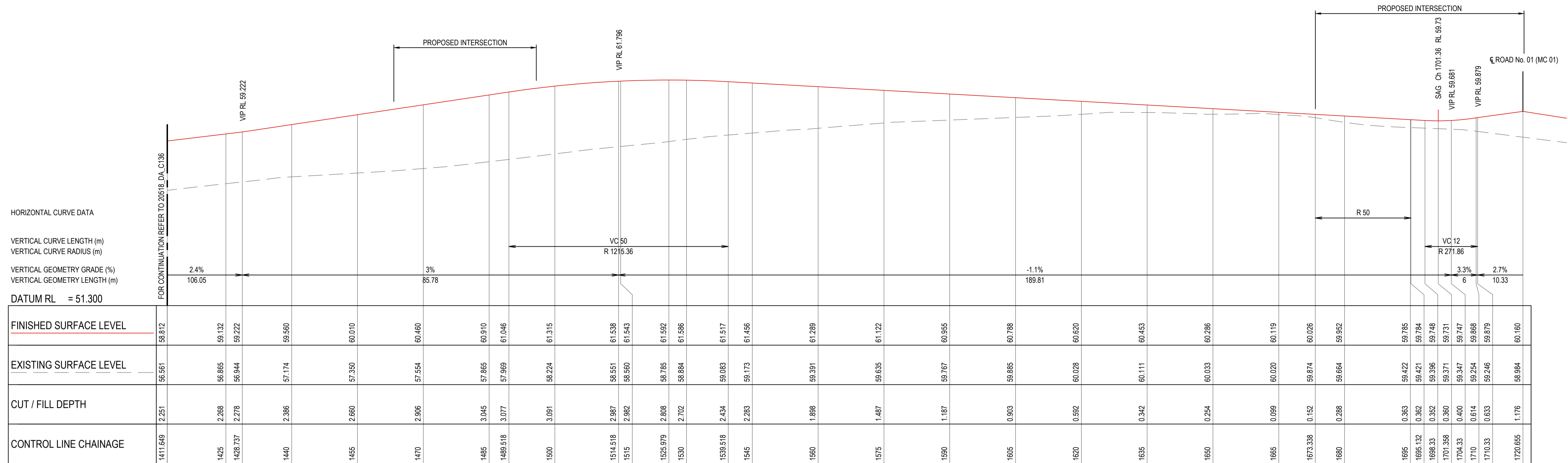
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HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ROAD No.03 - MC 03 LONGITUDINAL SECTION - CONTINUATION
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

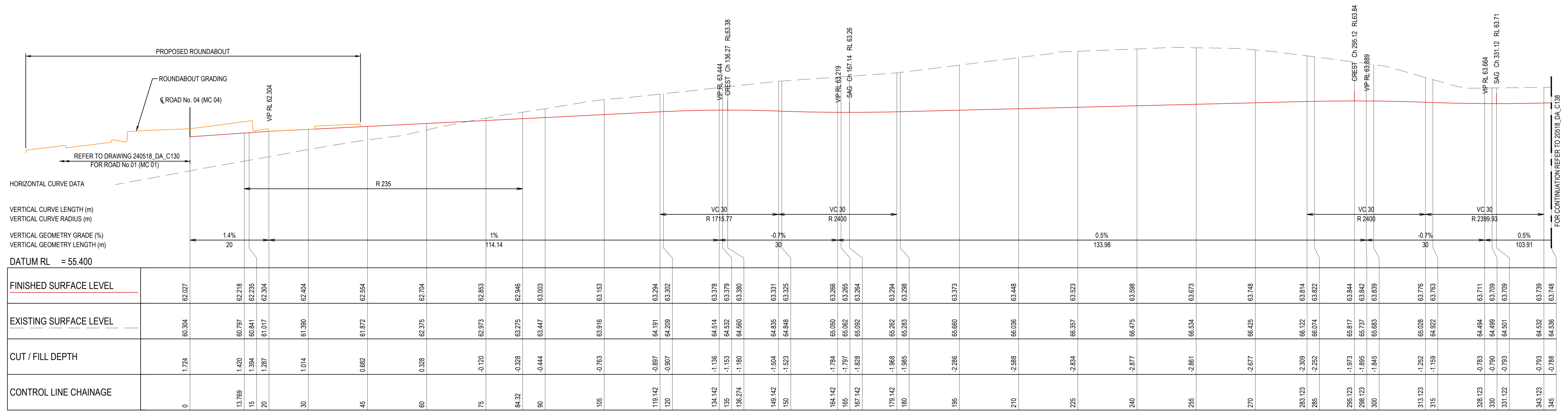
ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PMZ5501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hnyh.com.au Web: www.henryandhymas.com.au		 Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: ROAD LONGITUDINAL SECTIONS ROAD No. 03 (MC 03)		Drawn: L.Caha Designed: N.Wetzlar Checked: N.Wetzlar Approved: A.Francis Drawing number: 240518_DA_C136 Original issue date: 45413 Scale: @A1 AS SHOWN Revision: 04							
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REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE



ROAD No.03 - MC 03 LONGITUDINAL SECTION - CONTINUATION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ROAD No.04 - MC 04 LONGITUDINAL SECTION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
03	ISSUED FOR DRAFT	JS	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY
01	ISSUED FOR CONCEPT	LC	NW
ORIGIN OF LEVELS: PM25501_RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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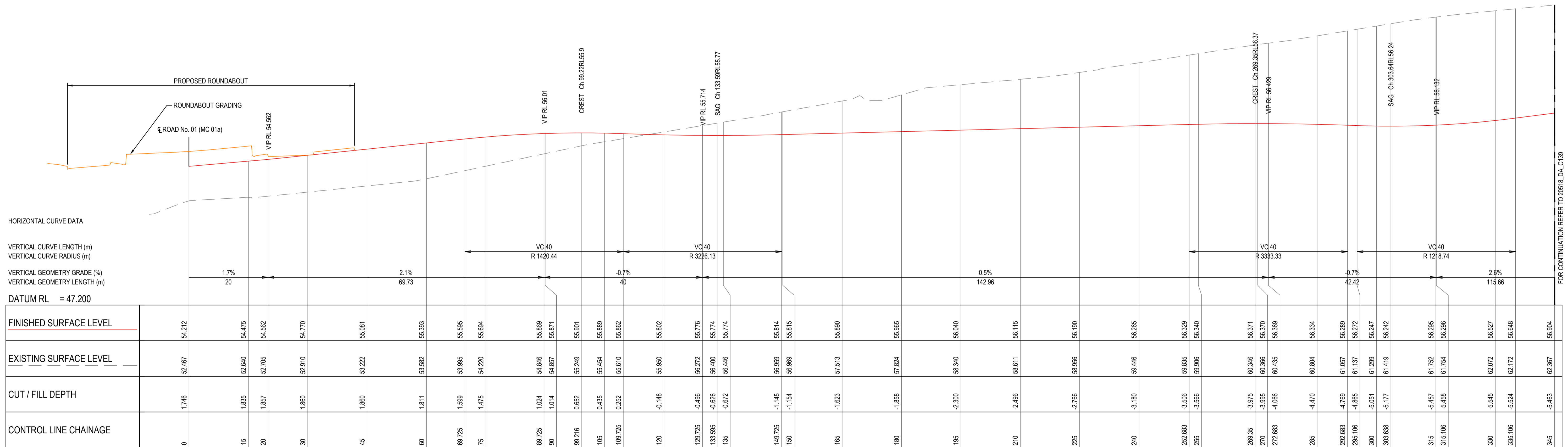
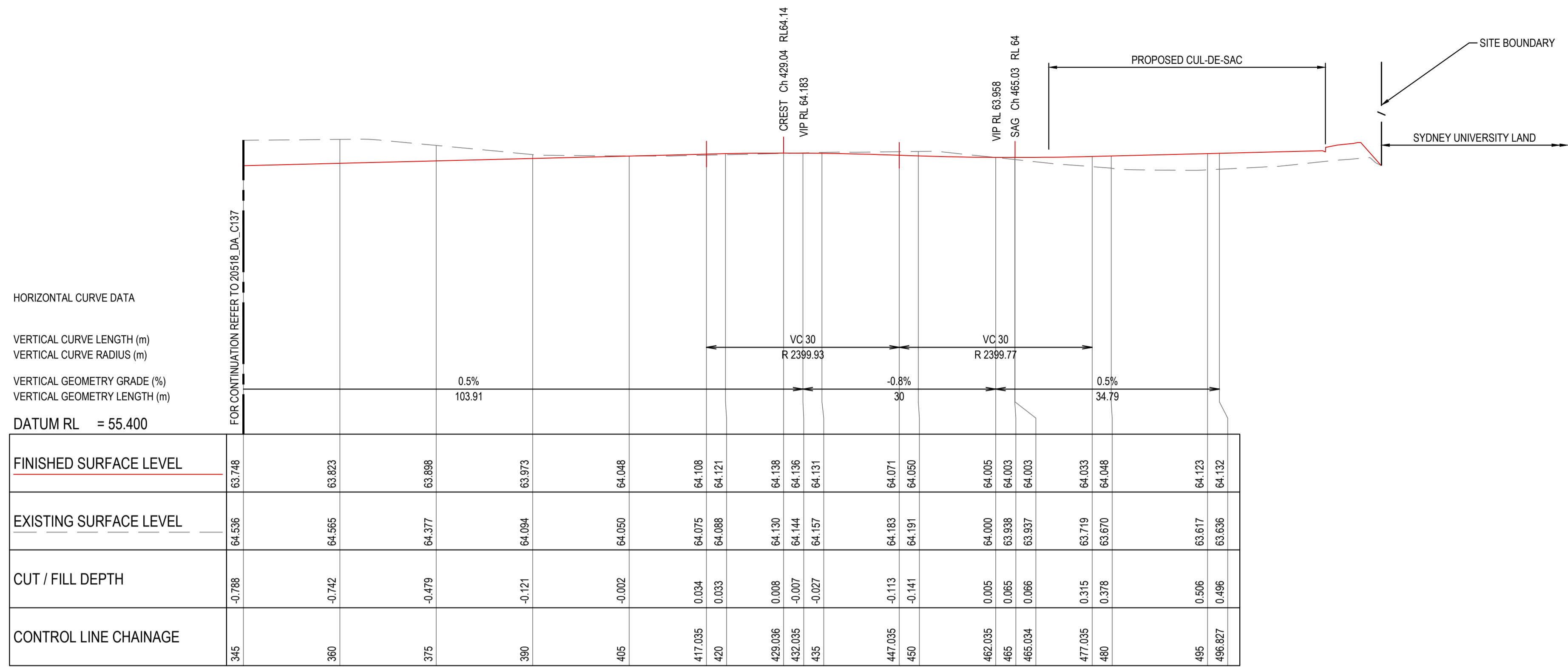
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henry&hymas

Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
ROAD LONGITUDINAL SECTIONS ROAD No. 03 (MC 03) & ROAD No. 04 (MC 04)

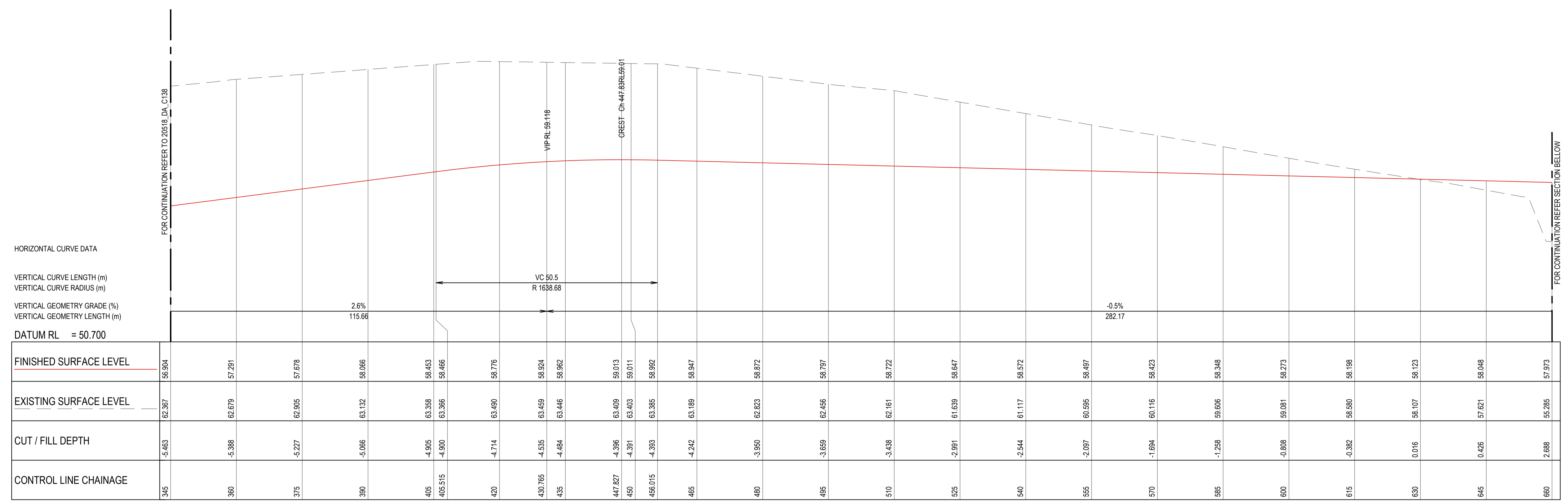
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Checked	N.Wetzlar	Approved	A.Francis	Scale @A1	AS SHOWN
Drawing number	240518_DA_C137			Revision	04



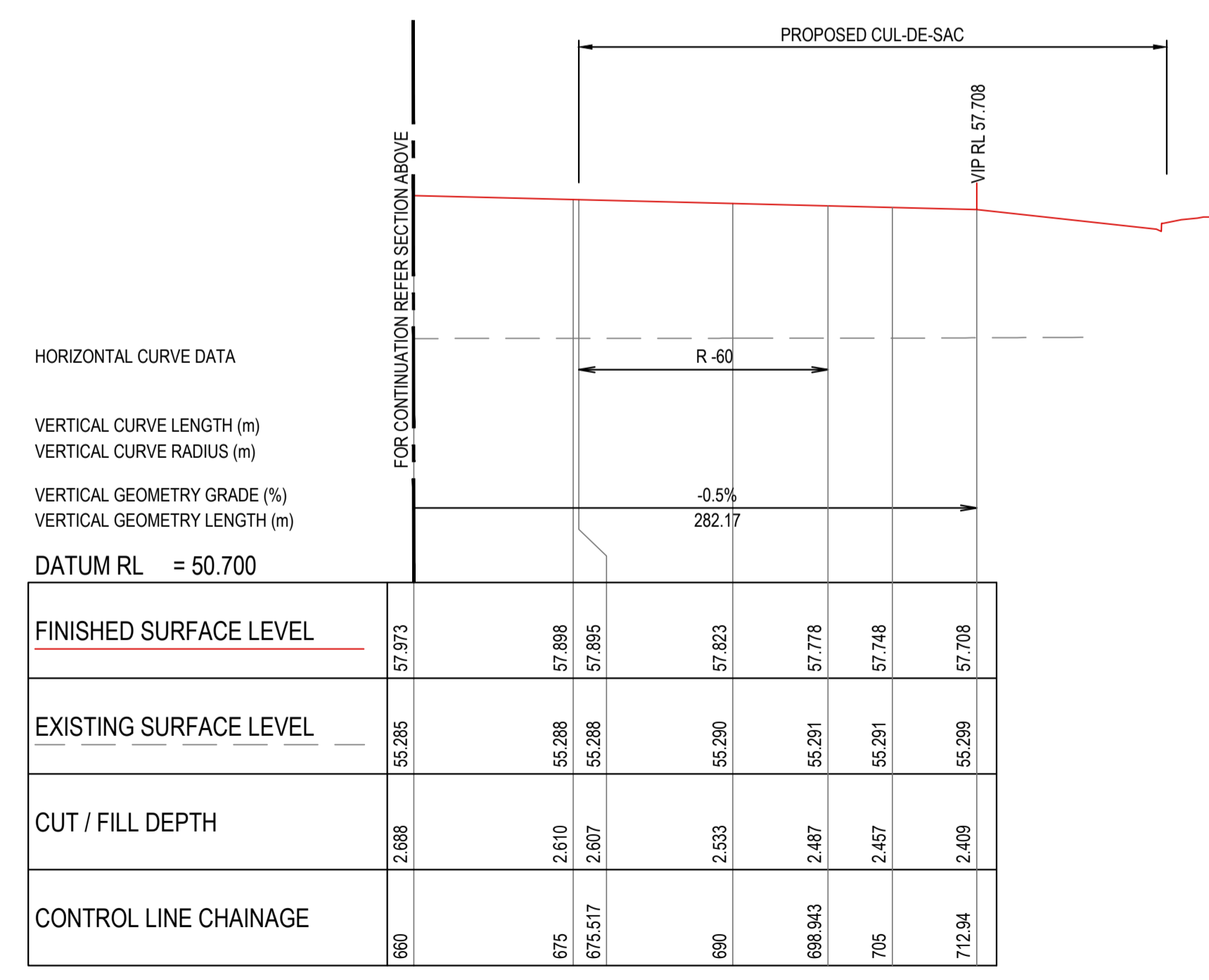
ROAD No.05 - MC 05 LONGITUDINAL SECTION
 HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSDA

SURVEY INFORMATION				Client: HB&B Property Pty and ISPT Pty Ltd				Project: BURRAH PARK				Drawn: L.Caha			
SURVEYED BY: L.TSL				Architect / Surveyor: NETTLETONTRIBE				Address: 828 Pacific Highway, Gordon NSW 2072				Designed: N.Wetzlar			
DATUM: AHD				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Telephone: +61 2 9417 8400				Original issue date: 45413			
ORIGIN OF LEVELS: PMZ5501, RL59.659				DRAWING TO BE PRINTED IN COLOUR				Facsimile: +61 2 9417 8337				Checked: N.Wetzlar			
REVISION				DRAWING TO BE PRINTED IN COLOUR				Email: email@hhoonsuit.com.au				Approved: A.Francis			
AMENDMENT				DRAWING TO BE PRINTED IN COLOUR				Web: www.henryandhymas.com.au				AS SHOWN			
DRAWN				DRAWING TO BE PRINTED IN COLOUR				www.henryandhymas.com.au				Drawing number: 240518_DA_C138			
DESIGNED				DRAWING TO BE PRINTED IN COLOUR				henry&hymas				Revision: 04			
DATE				DRAWING TO BE PRINTED IN COLOUR				Title: ROAD LONGITUDINAL SECTIONS ROAD No. 04 (MC 04) & ROAD No. 05 (MC 05)							
REVISION				DRAWING TO BE PRINTED IN COLOUR				Project: ELIZABETH DRIVE, BADGERYS CREEK, NSW							



ROAD No.05 - MC 05 LONGITUDINAL SECTION - CONTINUATION
 HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1



ROAD No.05 - MC 05 LONGITUDINAL SECTION - CONTINUATION
 HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSDA

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	08.08.2025					
03	ISSUED FOR DRAFT	JS	NW	30.05.25					
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024					
01	ISSUED FOR CONCEPT	LC	NW	25.07.24					

Client
HB&B Property Pty and ISPT Pty Ltd
 Archibag / Surveyor
NETTLETONTRIBE
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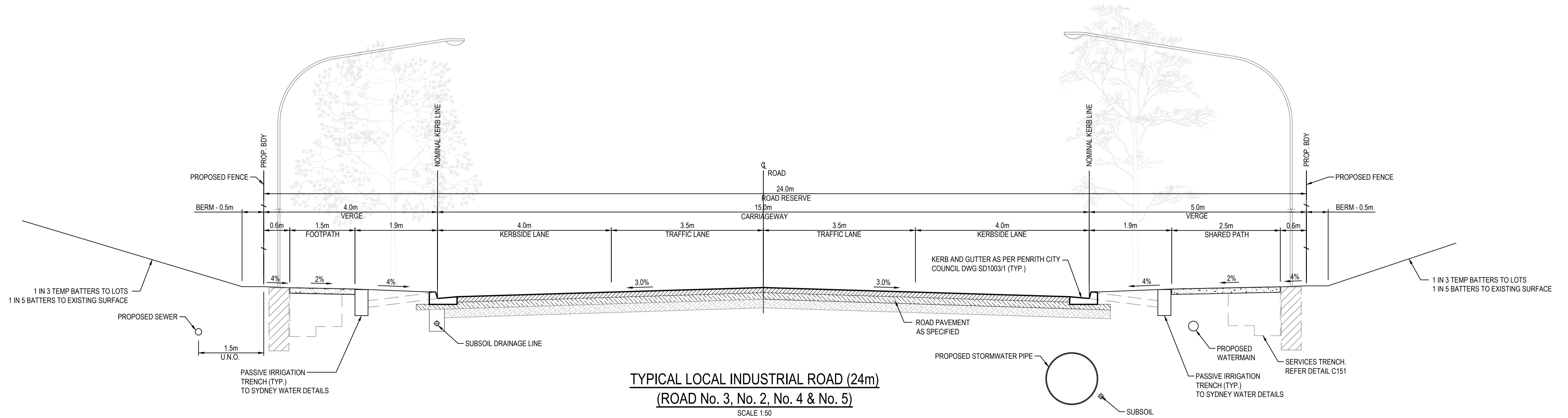
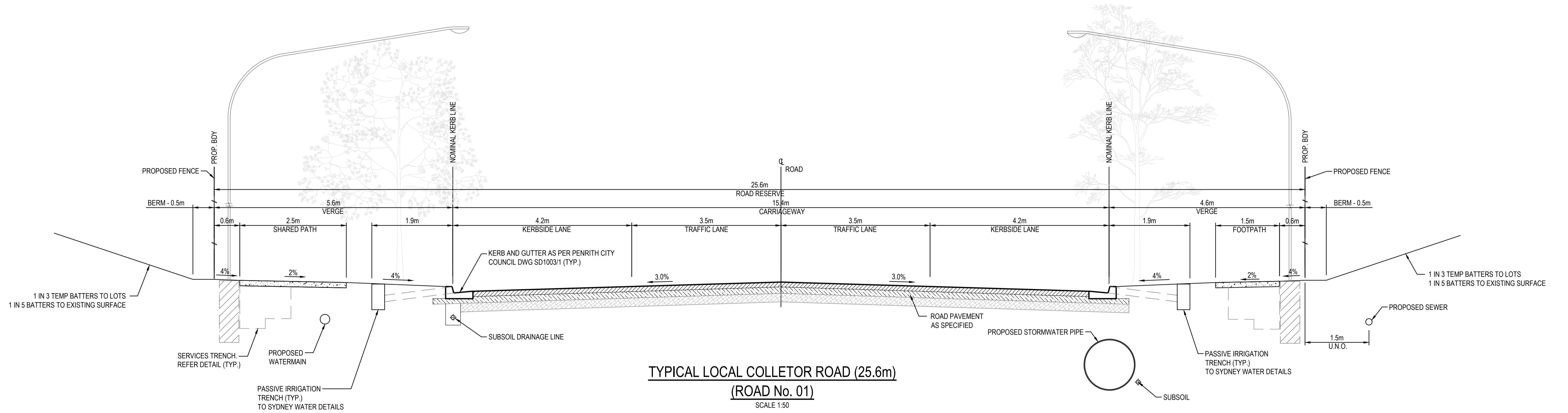
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 www.henryandhymas.com.au



Project
BURRAH PARK
 ELIZABETH DRIVE, BADGERYS CREEK, NSW
 Title
 ROAD LONGITUDINAL SECTIONS ROAD No. 05 (MC 05)

Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS SHOWN
Drawing number 240518_DA_C139		Revision 04

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 15/10/2024
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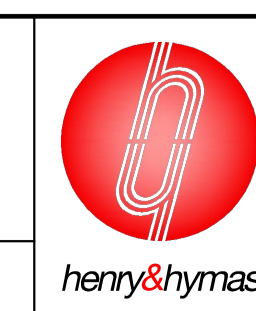
ISSUED FOR SSDA

SURVEY INFORMATION				Client					
SURVEYED BY: LTSL				HB&B Property Pty and ISPT Pty Ltd					
DATUM: AHD				Architect / Surveyor					
ORIGIN OF LEVELS: PMZ5501, RL59.659				NETTLETONTRIBE					
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.08.2025					
03	ISSUED FOR DRAFT	JG	NW	30.09.25					
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024					
01	ISSUED FOR CONCEPT	LC	NW	25.07.24					

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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Drawn
L.Caha

Designed
N.Wetzlar

Original issue date
45413

Checked
N.Wetzlar

Approved
A.Francis

Scale @A1
1:50

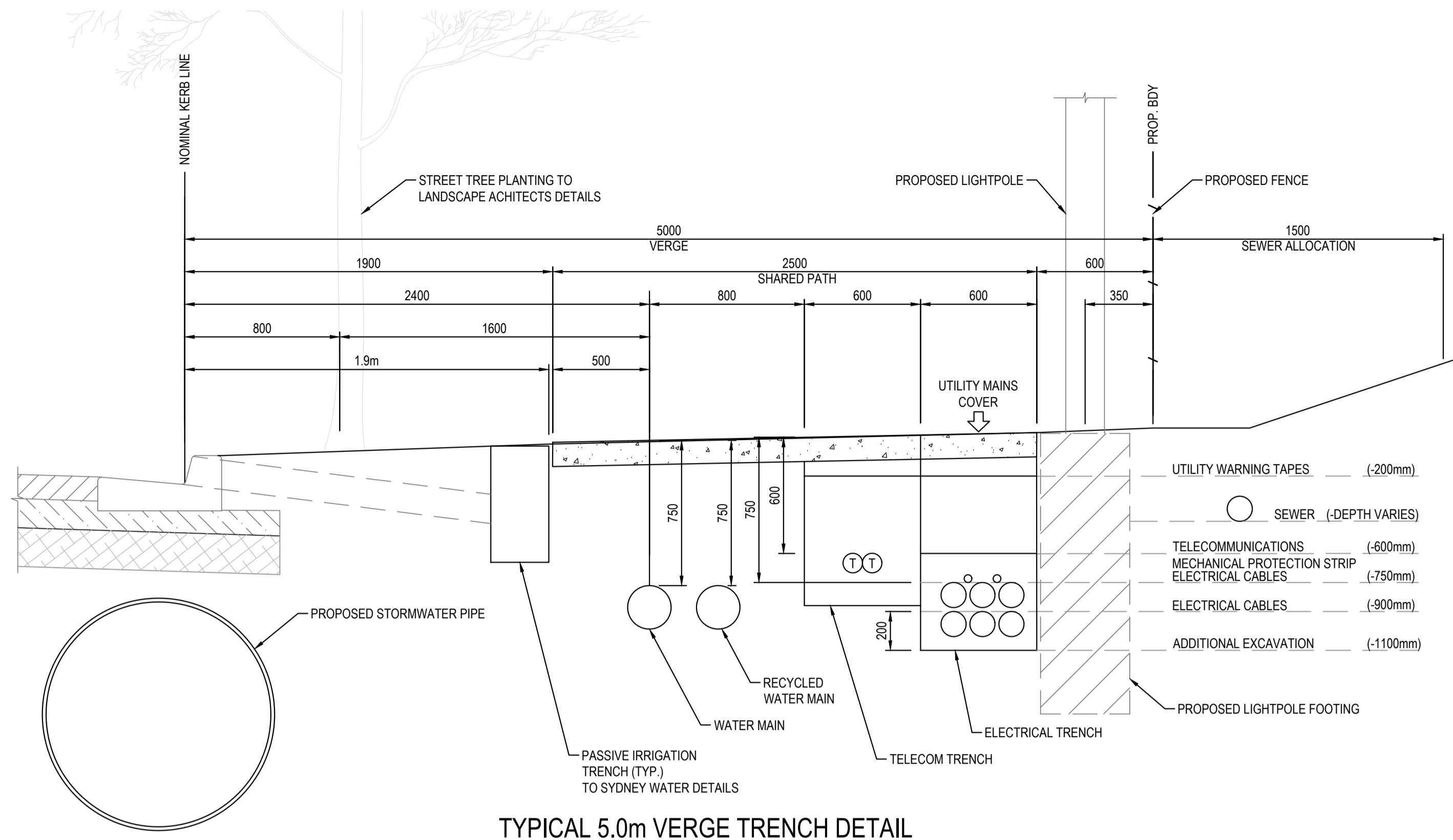
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Revision
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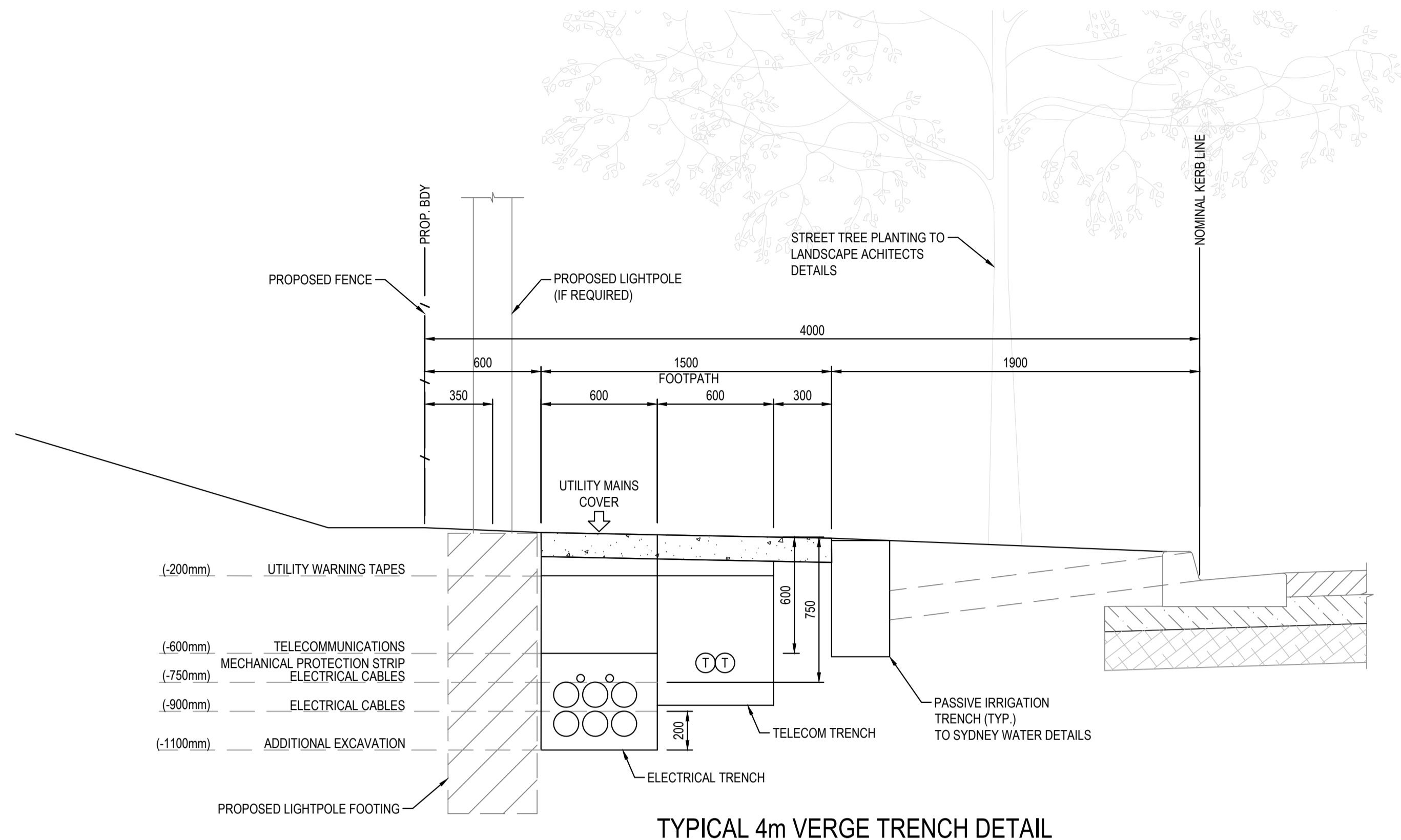
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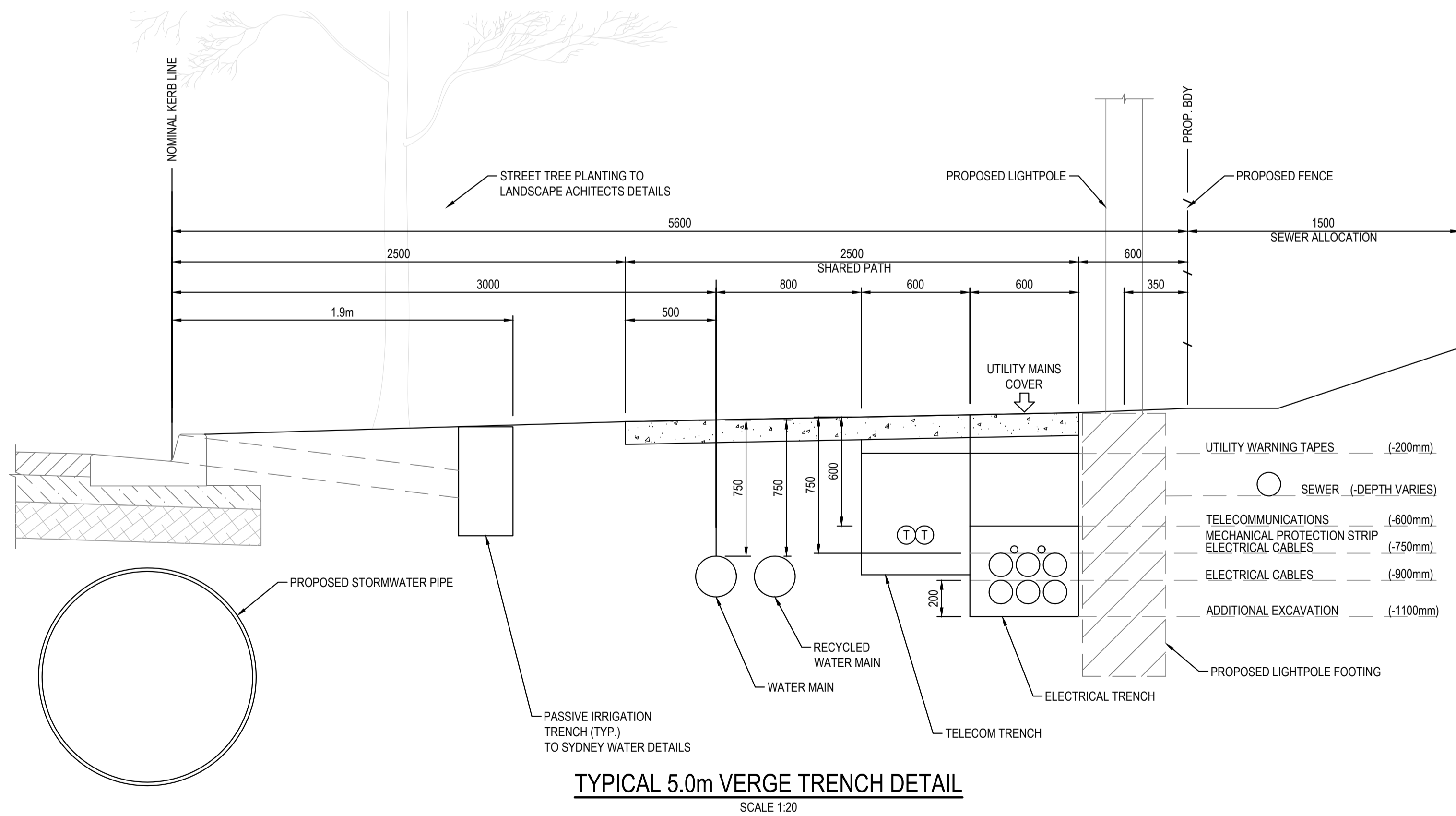
TYPICAL CROSS SECTIONS



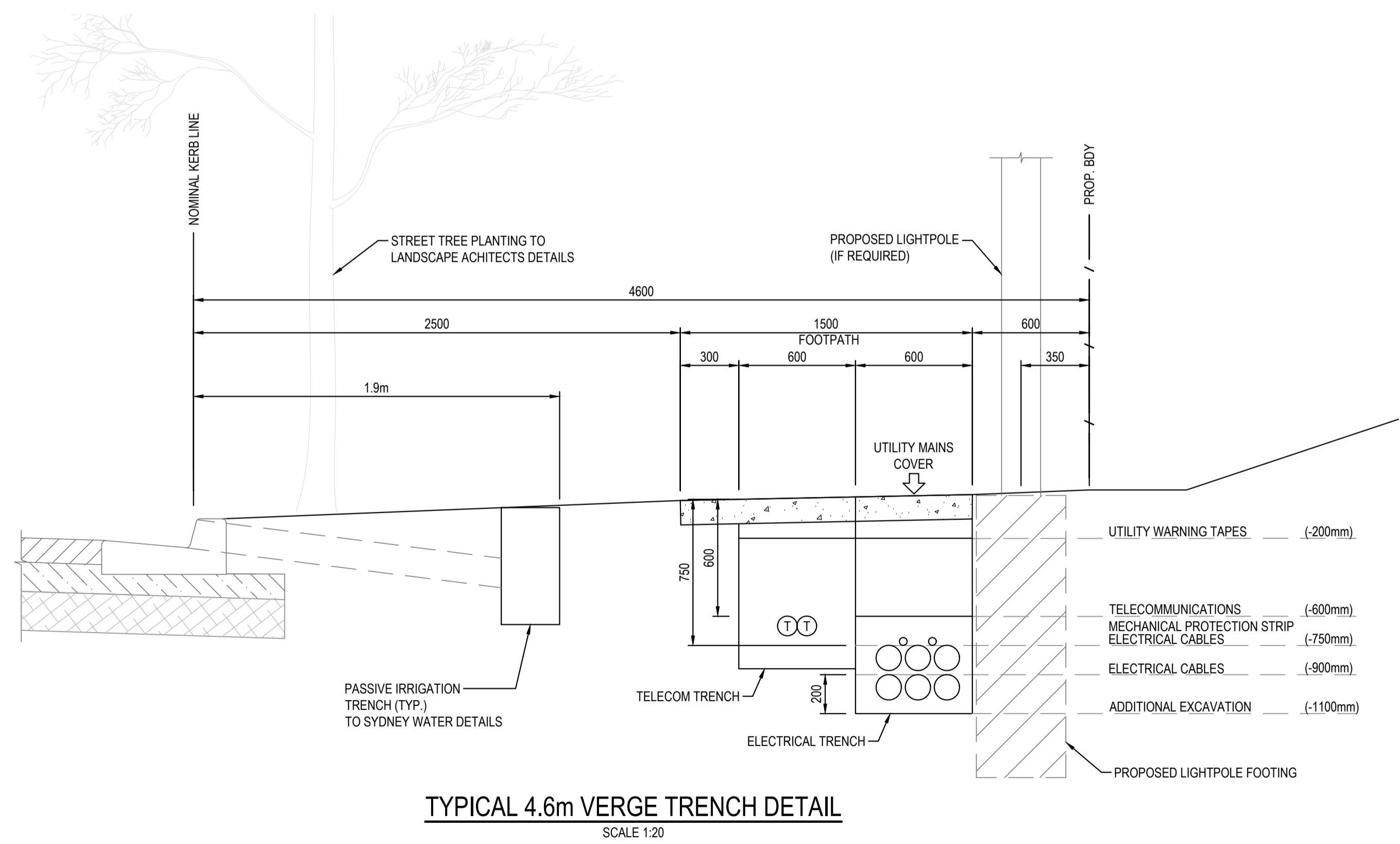
TYPICAL 5.0m VERGE TRENCH DETAIL
SCALE 1:20



TYPICAL 4m VERGE TRENCH DETAIL
SCALE 1:20



TYPICAL 5.0m VERGE TRENCH DETAIL
SCALE 1:20



TYPICAL 4.6m VERGE TRENCH DETAIL
SCALE 1:20

ISSUED FOR SSDA

SURVEY INFORMATION

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	09.06.2025					
04	ISSUED FOR DRAFT	JG	NW	30.05.25					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY	15.10.2024					
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024					
01	ISSUED FOR CONCEPT	MP	NW	25.07.24					

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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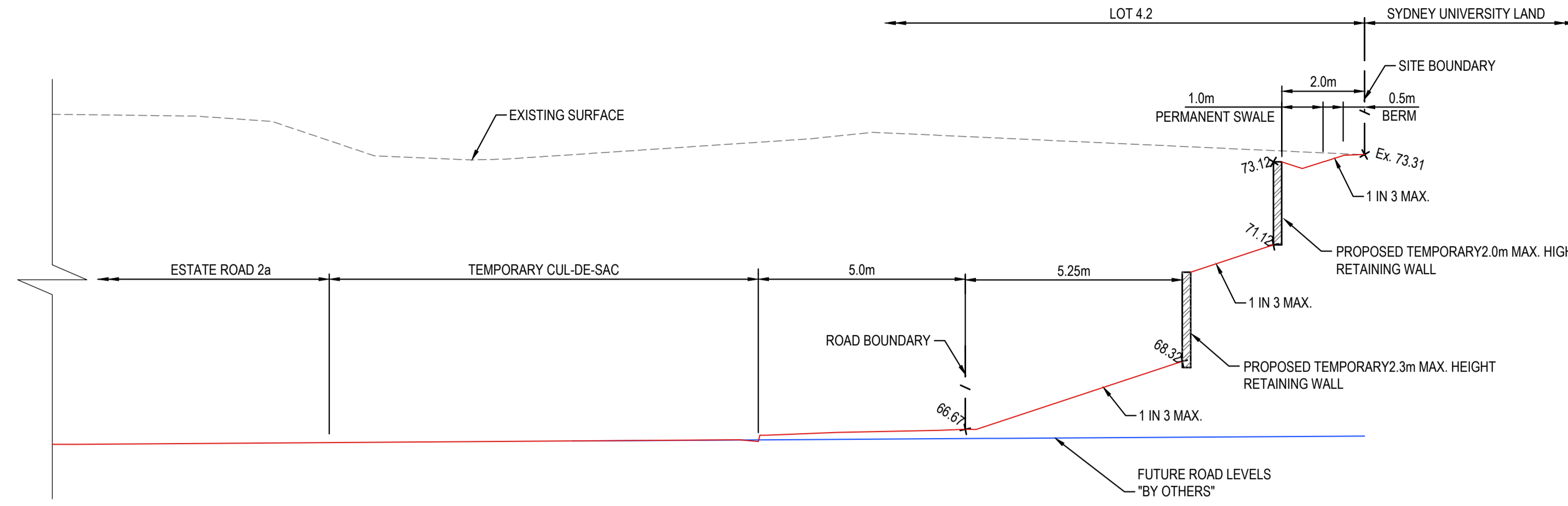
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hornsconsult.com.au Web www.henryandhymas.com.au
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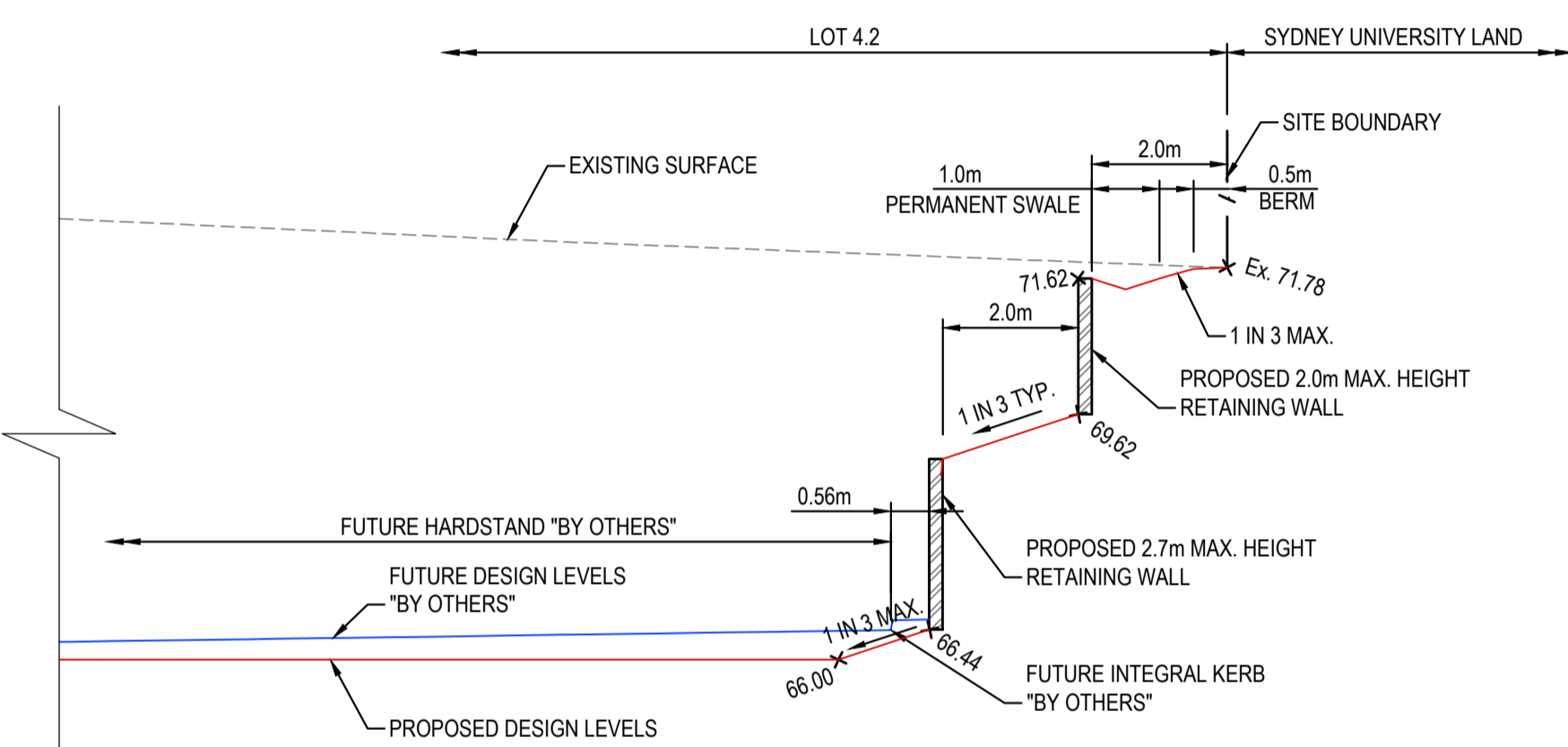
Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Drawn	L.Caha
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Original issue date	45413
Scale @A1	1:20
Drawing number	240518_DA_C151
Revision	05

Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Drawn	L.Caha
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Original issue date	45413
Scale @A1	1:20
Drawing number	240518_DA_C151
Revision	05

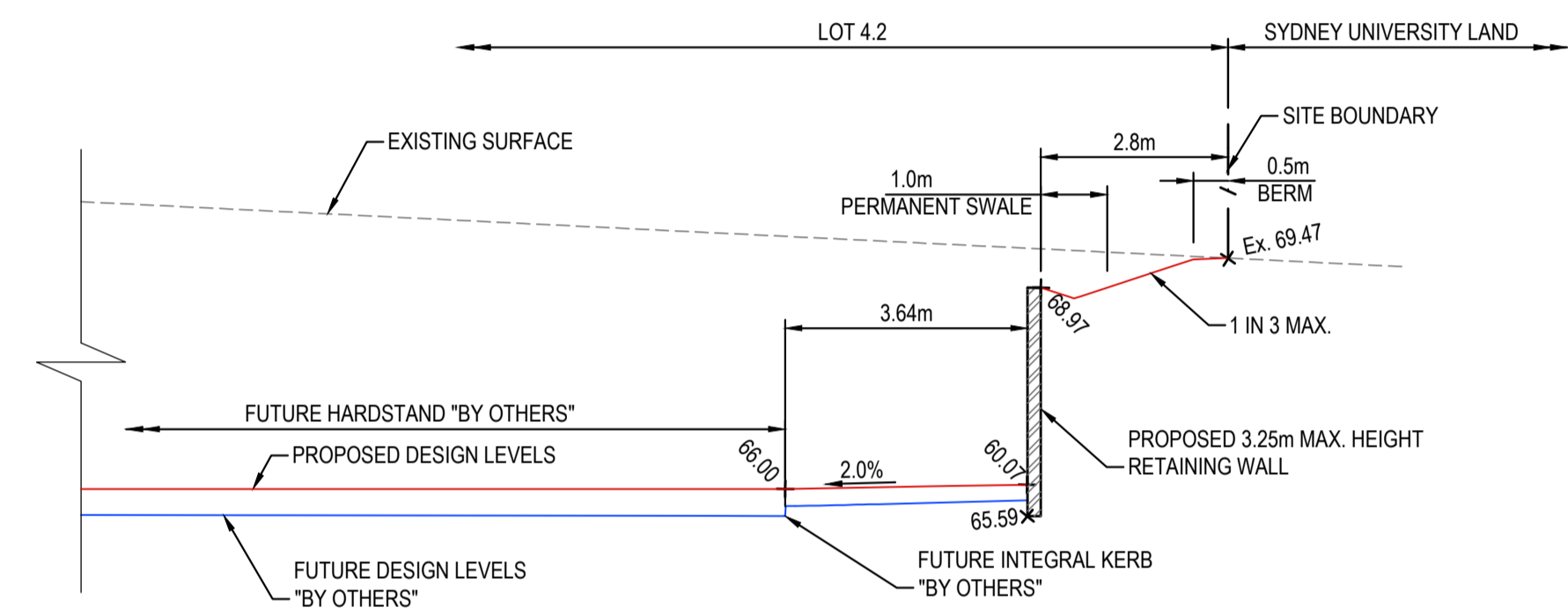
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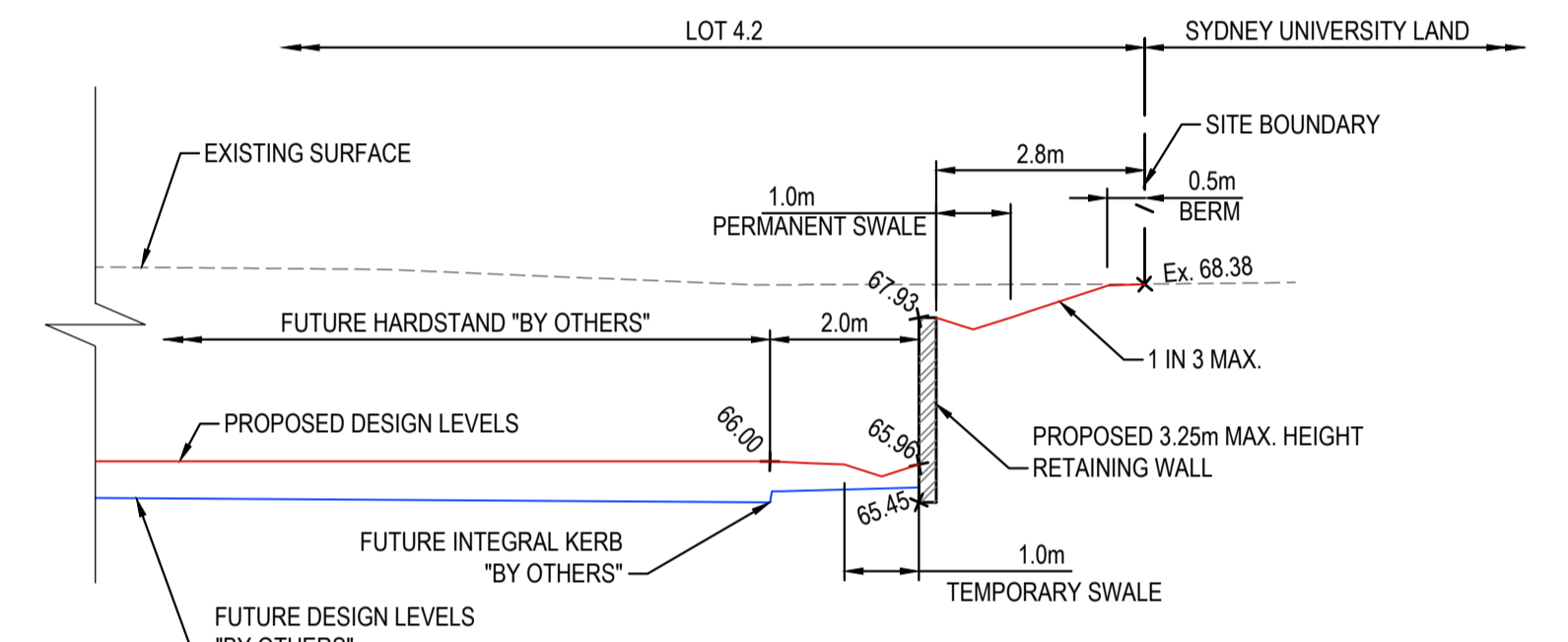
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C112



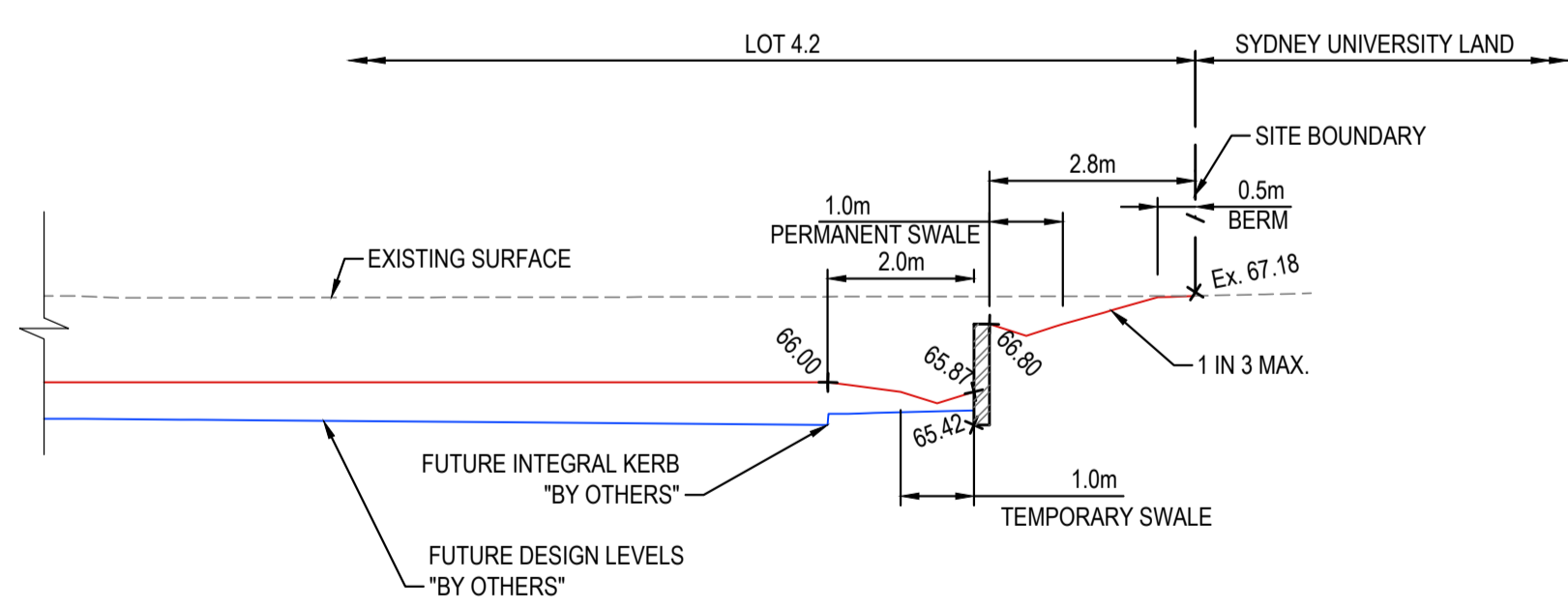
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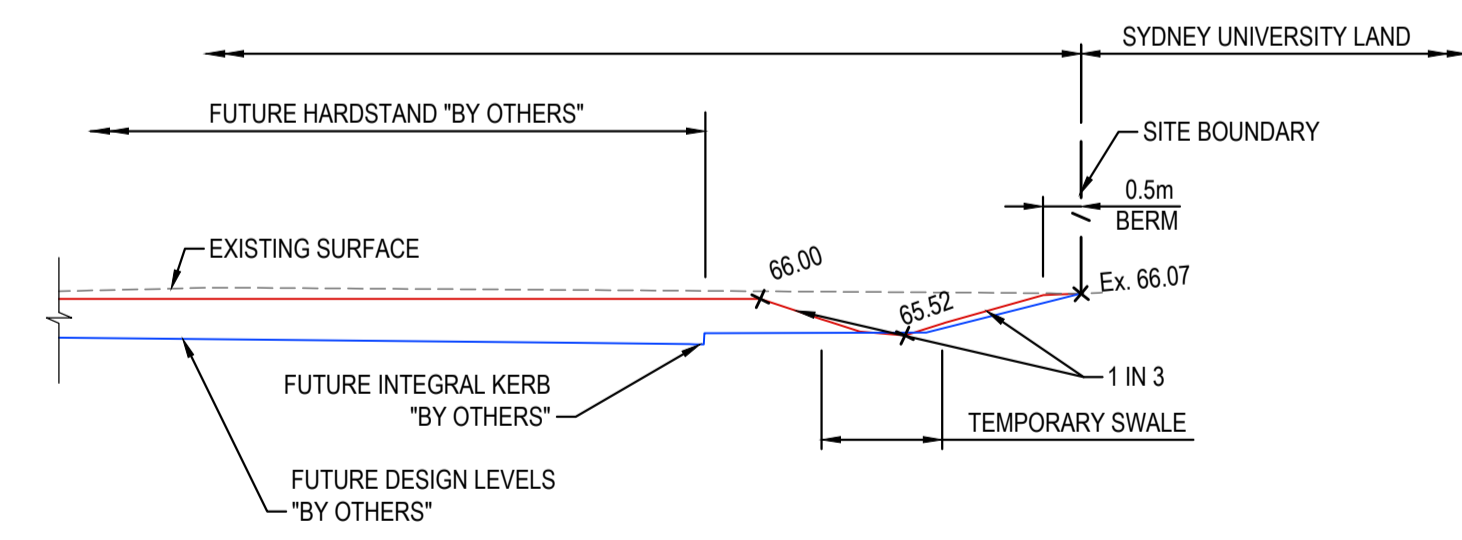
SECTION C
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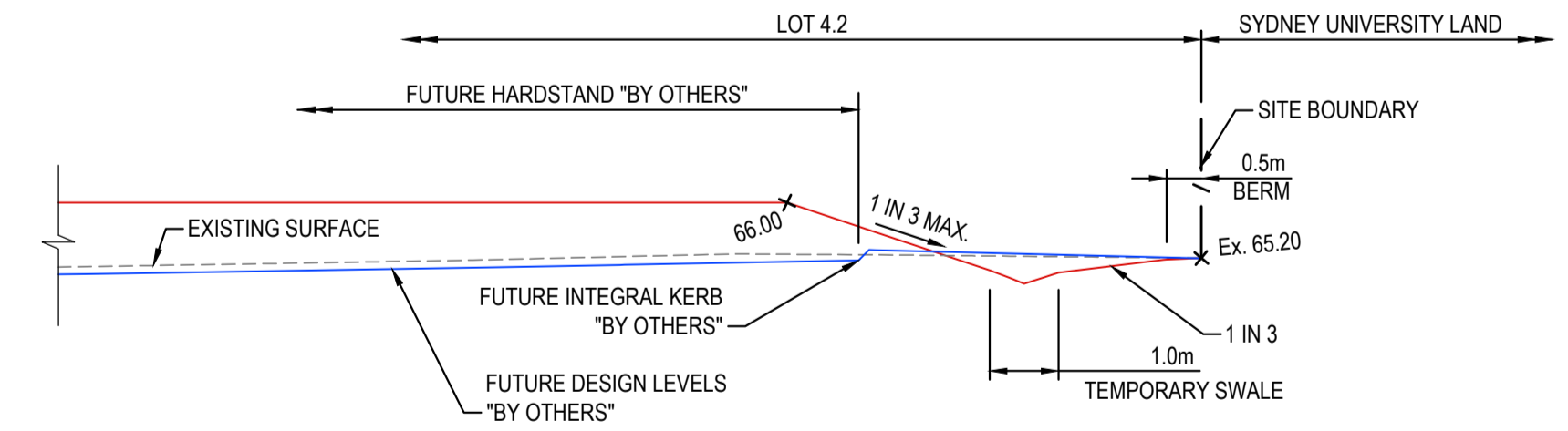
SECTION D
SCALE: 1:100 @ A1
C112



SECTION E
SCALE: 1:100 @ A1
C112



SECTION F
SCALE: 1:100 @ A1
C113



SECTION G
SCALE: 1:100 @ A1
C113

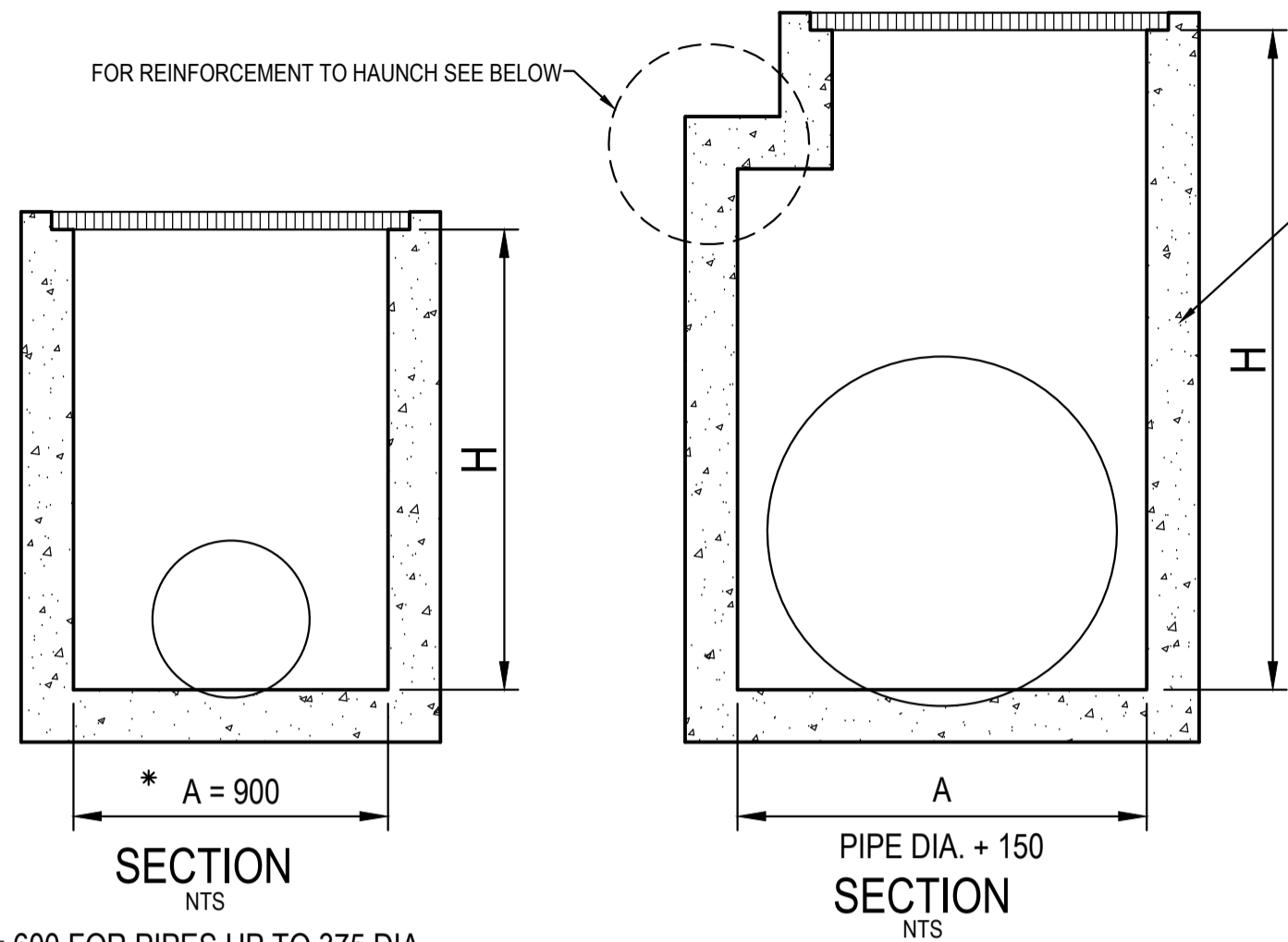
ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659				Client HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor NETTLETONTRIBE Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hobson.com.au Web www.henryandhymas.com.au				Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title RETAINING WALL SECTIONS				Drawn L.Caha Checked N.Wetzlar Drawing number 240518_DA_C160				Designed N.Wetzlar Approved A.Francis Original issue date 45413 Scale @A1 1:100 Revision 04			
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas. DRAWING TO BE PRINTED IN COLOUR henry&hymas									

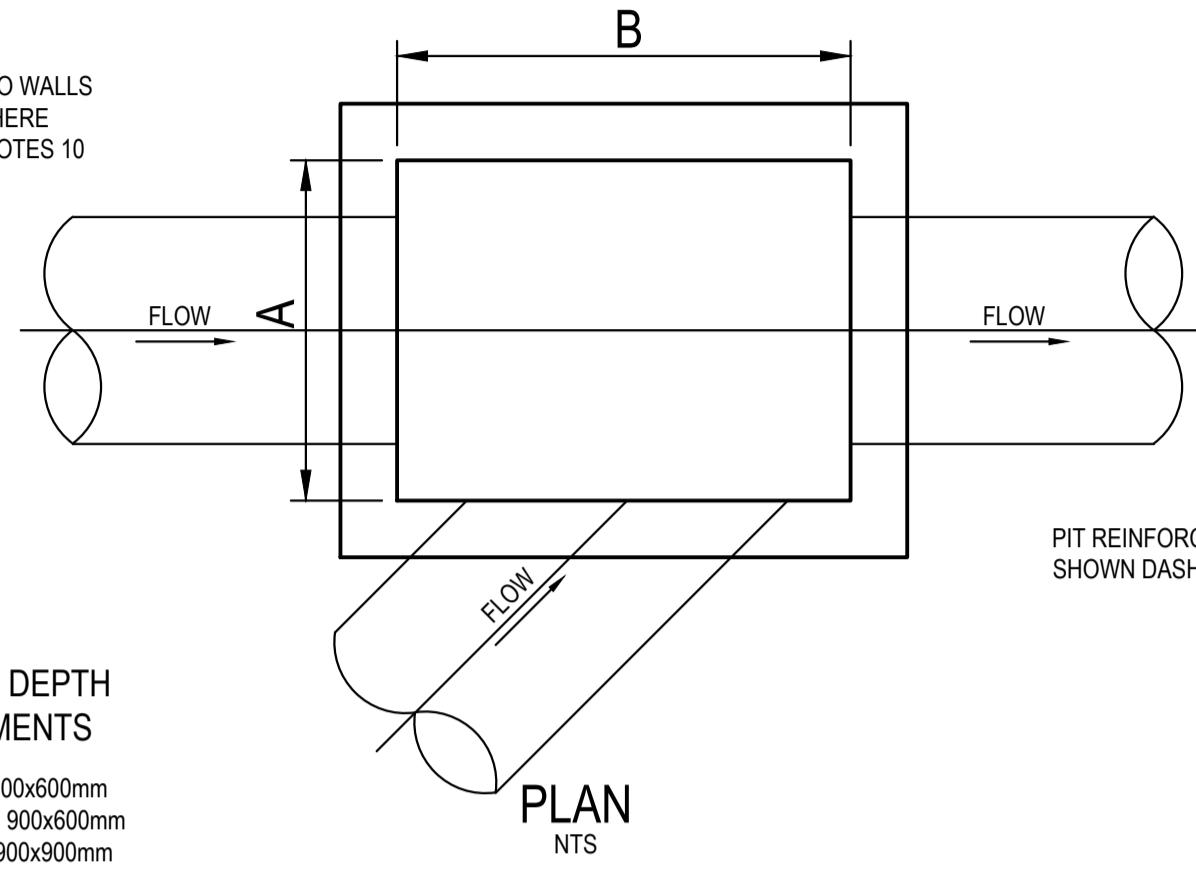
TYPICAL PIT CHAMBER SIZES
 IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

- 1 SELECT PIT CHAMBER USING THE STEPS BELOW.
- 2 SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- 3 CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
- 4 CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

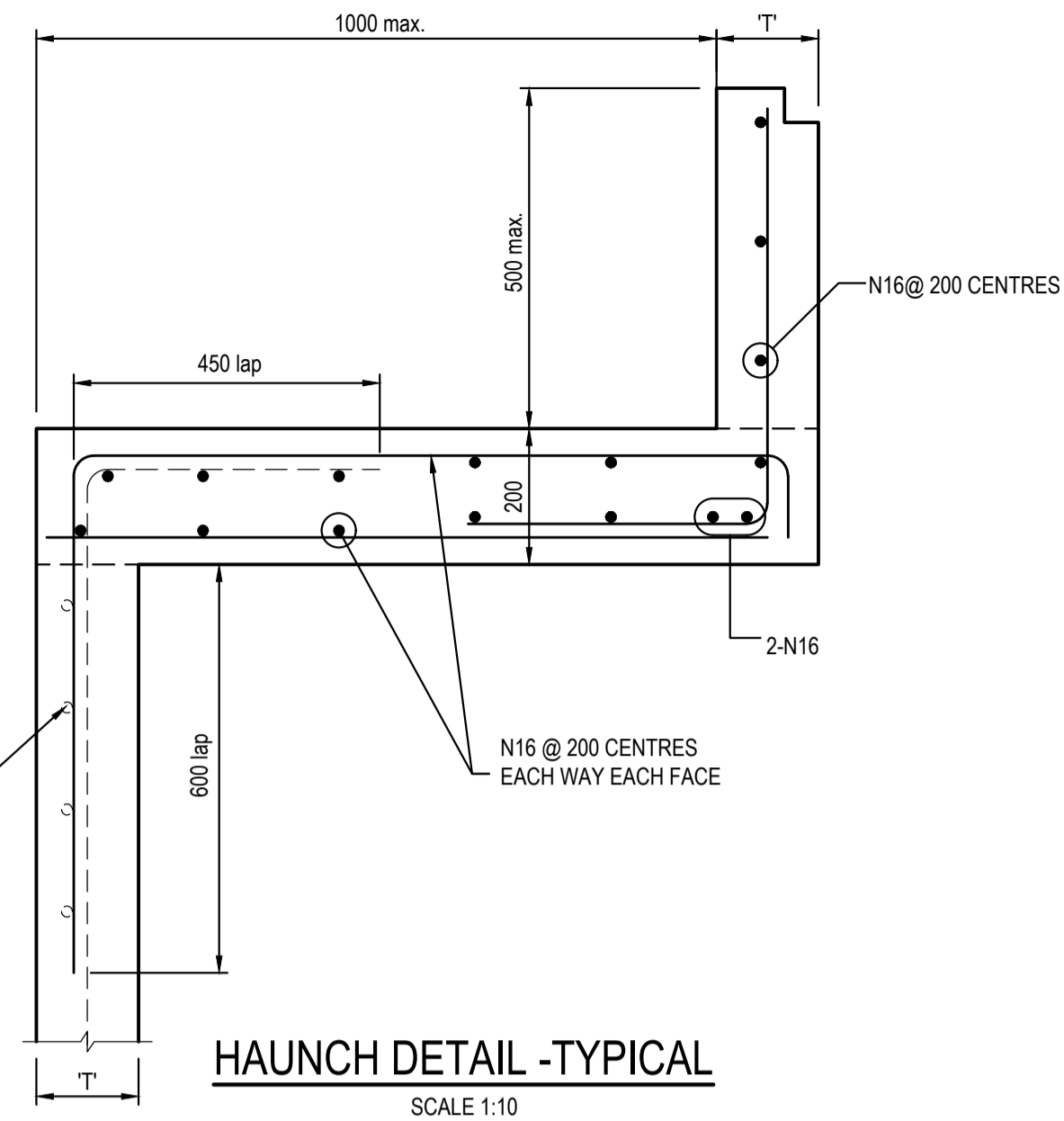
FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
 FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
 FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
 FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
 FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



2 PIT SIZE & DEPTH REQUIREMENTS
 H = 0-900mm - AxB = 600x600mm
 H = 900-1200mm - AxB = 900x600mm
 H = >1200mm - AxB = 900x900mm

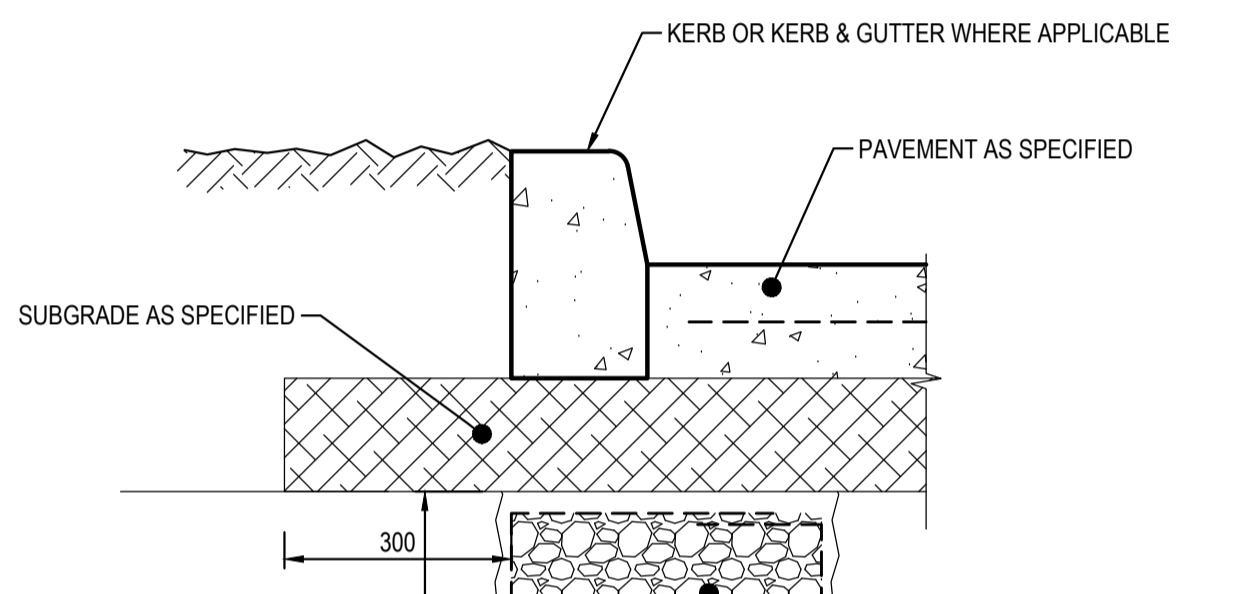
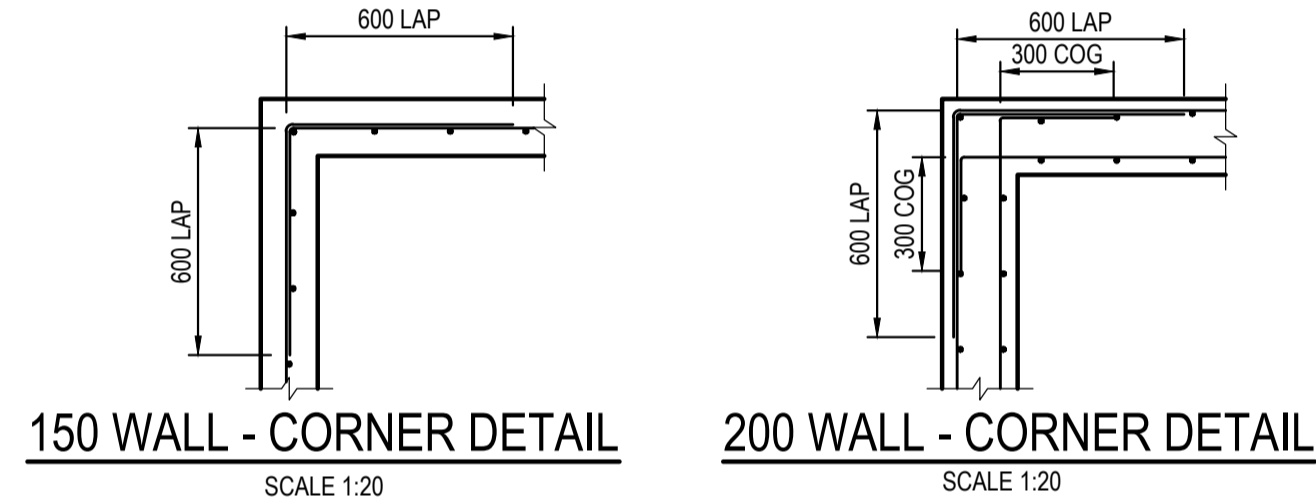
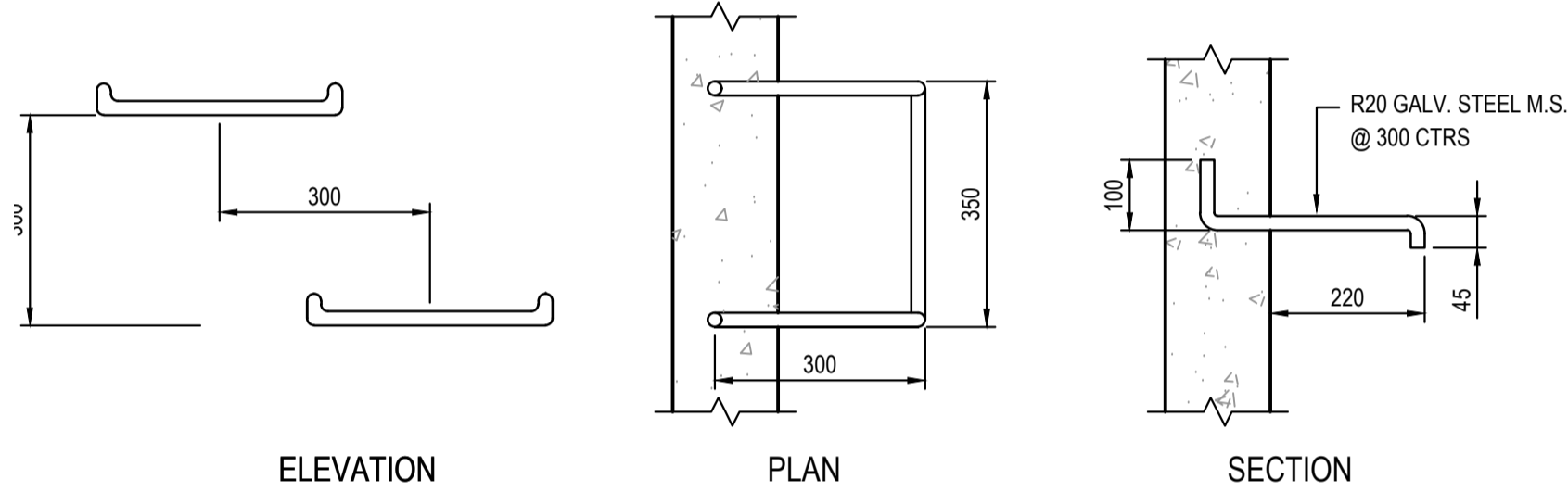


3 PIT CHAMBER FOR SIDE ENTRY ON SKEW



*A = 600 FOR PIPES UP TO 375 DIA.
1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.



SUB-SOIL DRAIN DETAIL BELOW KERB

IMPORTANT NOTE: SUBSOIL DRAINAGE TO BE PROVIDED BELOW ALL KERBS (INCLUDING MEDIAN ISLANDS) IF NO STORMWATER DRAINAGE LINE IS PROVIDED BELOW.

TABLE 1

SIEVE SIZE (MM)	WEIGHT PASING (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2

SIEVE SIZE (MM)	WEIGHT PASING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

TABLE 3

SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1		0.1D	50	2.0
HS2	100 IF D<=1500, OR 150 IF D>=1500	0.3D	60	2.5
HS3		0.3D	70	4.0

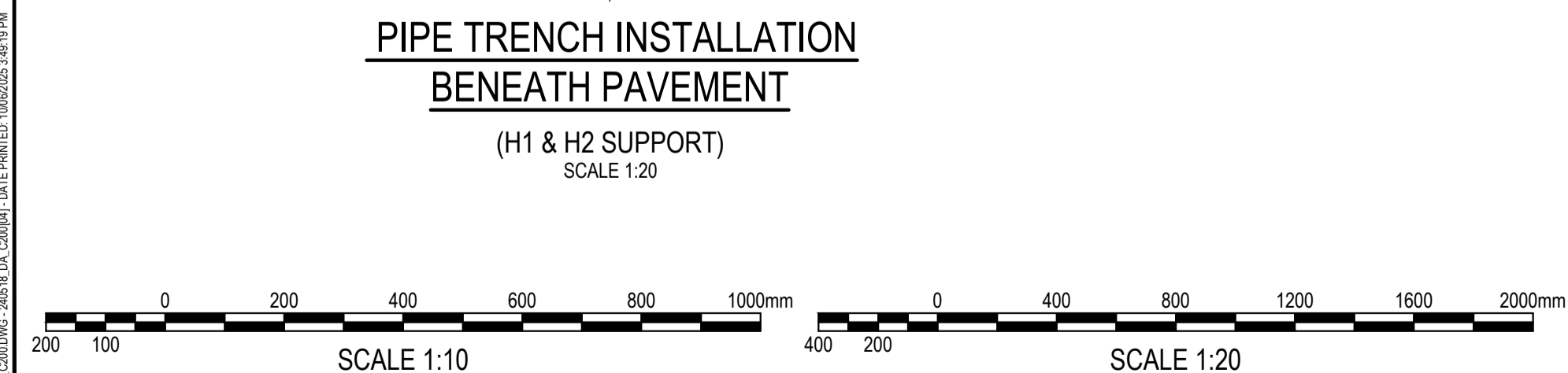
PIT LID AND HEADWALL SCHEDULE

PIT NAME	PIT DESCRIPTION
A-12, B-13, D-13, F-9, G-10, H-5, I-13, J-3, K-6, L-12, O-9, P-3, Q-4, R-3, S-4, T01-1, T01-2, T02-1, T02-2, U-3, V-3	PRECAST CONCRETE HEADWALL IN ACCORDANCE WITH PENRITH CITY COUNCIL COUNCIL'S REQUIREMENTS. REFER C210 FOR ADDITIONAL SCOUR PROTECTION DETAILS
A-1, A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A01-1, A02-1, A04-1, A05-1, A06-1, A08-1, A09-1, A12-1, A12-2, B-1, B-2, B-3, B-7, B-8, B-9, B-10, B01-2, B07-1, B08-1, C-1, C-2, G-3, G-4, G-5, C01-1, C03-1, C04-1, C05-1, C05-2, D-1, D-2, D-3, D-4, D-5, D-6, D-7, D-10, D-11, D01-1, D03-1, D04-1, D05-1, D06-1, D08-1, D09-1, E-1, E-2, E-3, E01-1, F-1, F-2, F-3, F-4, F-5, F-6, F-7, F01-1, F02-1, F03-1, F05-1, F06-1, G-2, G-3, G-4, G-5, G-6, G-7, G-8, G01-1, G02-1, G04-1, G05-1, G06-1, G08-1, G09-1, G11-2, H-2, H-1, H-3, H01-1, I-3, I-4, I-6, I-7, I-9, I-10, I-11, I01-1, I04-1, I06-1, I07-1, J-1, J-2, K-4, K01-1, L-1, L-2, L-3, L-4, L-5, L-6, L-8, L-9, L01-1, L02-1, L03-1, L04-1, M-1, M-2, M-4, M-6, M-7, M02-1, N-4, N01-1, O-1, O-3, O-5, O-6, O-7, O06-4, O06-2, O06-3	PROPOSED 1.8m ON-GRADE KERB INLET PIT WITH HEAVY DUTY FRAME AND GRATE, CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL COUNCIL'S REQUIREMENTS.
L11, O-2, S-3	PROPOSED 900x900 JUNCTION PIT WITH SEALED CONCRETE LID HEAVY DUTY CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL COUNCIL'S REQUIREMENTS
A-11, B-12, F-8, G-9, I-12, K-5, L-10, O-8, P-2, Q-2, Q-3, R-2, S-2, U-2, V-2	PROPOSED LOW FLOW DIVERSION 'SPLITTER' PIT. INSITU REINFORCED CONCRETE PIT WITH LOW FLOW DIVERSION WEIR. DETAILED DESIGN TO FUTURE SPECIFICATIONS.
A-10, A10-2, B-4, B-5, B-6, B-11, B02-1, B03-1, B05-1, B06-1, B09-2, B10-1, D-8, D-9, D-12, D11-1, G11-1, H-4, H02-2, I-1, I-2, I-5, I-8, I03-2, I05-1, K-2, K-3, L-7, L06-1, L08-1, M-3, M-5, M01-1, M04-1, N-2, N-3, O-4, O03-1	PROPOSED SAG KERB WITH 2.4m INTEL AND HEAVY-DUTY FRAME AND GRATE, CLASS "D" IN ACCORDANCE WITH PENRITH CITY COUNCIL COUNCIL'S REQUIREMENTS.
A03-1, A07-1, A10-1, A11-1, B01-1, B04-1, B09-1, C02-1, D07-1, F04-1, G-1, G03-1, G07-1, G10-1, H02-1, I02-1, I03-1, I08-1, K-1, L05-1, M03-1, M05-1, N-1, O07-01, O01-1, O02-1, O04-1, O05-1, O06-1, P-1, Q-1, Q01-1, R-1, S-1, U-1, V-1	PROPOSED STUB CONNECTION IN ACCORDANCE WITH PENRITH CITY COUNCIL COUNCIL'S REQUIREMENTS. REFER NOTES ON PLANS FOR ADDITIONAL REQUIREMENTS.

NOTES:

- REFER C010 FOR DRAINAGE AND SUBSOIL NOTES.
- PIT SCHEDULE ABOVE DOES NOT INCLUDE PIT LIDS FOR WATER QUALITY DEVICES OR STORMWATER MANAGEMENT BASINS. REFER DRAWINGS C201 AND C212 FOR DETAILS REGARDING PITS WITHIN STORMWATER MANAGEMENT BASINS.

ISSUED FOR SSDA



SURVEY INFORMATION

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	08.08.2025					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024					
02	ISSUED FOR CONCEPT	MS	SY	15.10.2024					
01	ISSUED FOR CONCEPT	MP	NW	25.07.24					

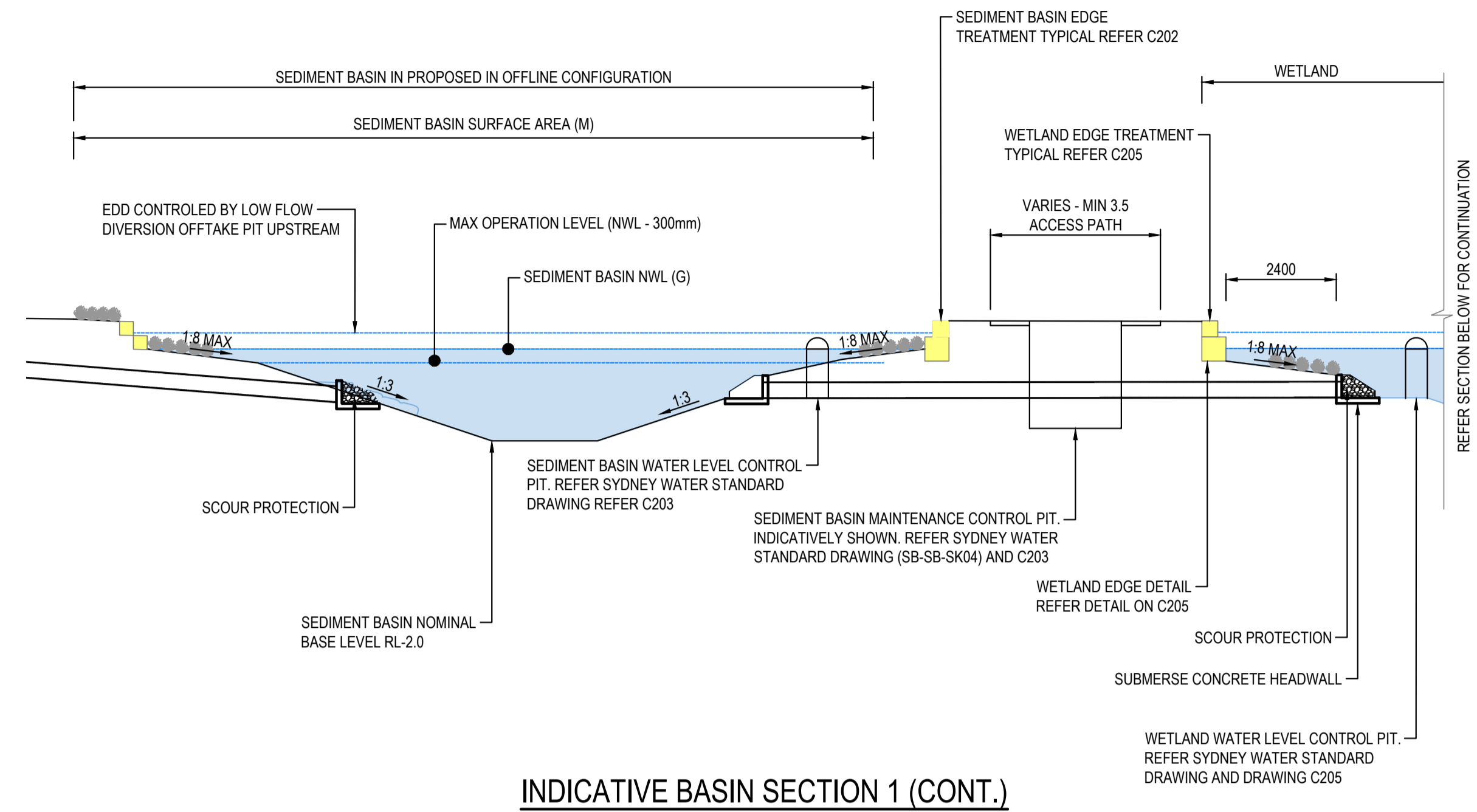
Client: **HB&B Property Pty and ISPT Pty Ltd**
 Archibag / Surveyor: **NETTLETONTRIBE**
 Suite 2.01, 828 Pacific Highway, Gordon NSW 2072
 Telephone: +61 2 9417 8400
 Facsimile: +61 2 9417 8337
 Email: email@rhiconsult.com.au
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henry&hymas

Project: **BURRAH PARK**
 ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale
N.Wetzlar	A.Francis	@A1
AS NOTED	AS NOTED	

Drawing number: **240518_DA_C200** Revision: **04**



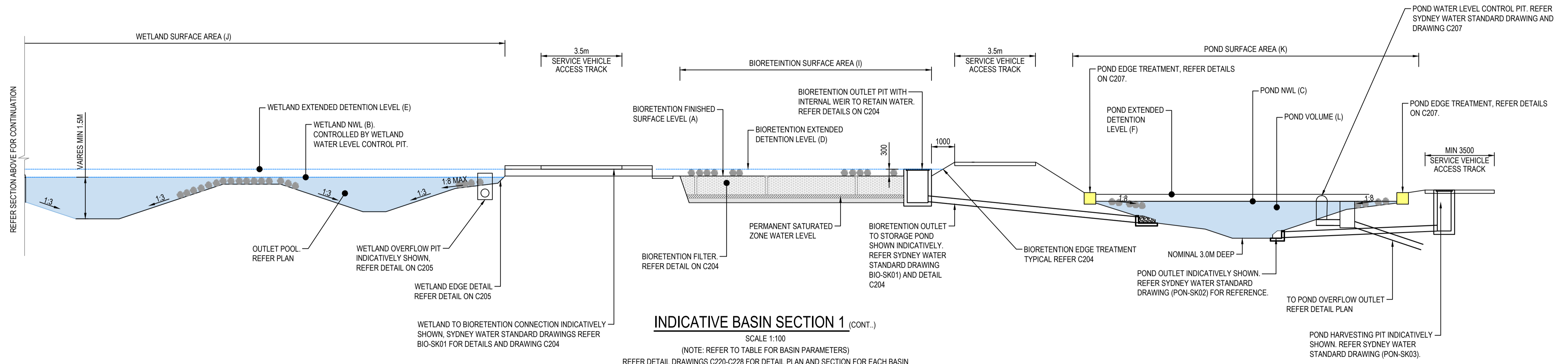
INDICATIVE BASIN SECTION 1 (CONT.)

SCALE 1:100
 (NOTE: REFER TO TABLE FOR BASIN PARAMETERS)
 REFER DETAIL DRAWINGS C220-C228 FOR DETAIL PLAN AND SECTION FOR EACH BASIN

	Basin AB	Basin C	Basin D.1	Basin D.2	Basin E	Basin F
(A) Bioretention Surface Level m(AHD)	57.05	55.05	54.35	52.55	55.35	56.05
(B) Wetland NWL m(AHD)	57.00	55.00	54.30	52.50	55.30	56.00
(C) Storage Pond NWL m(AHD)	55.20	54.50	53.00	51.70	54.40	55.20
(D) Bioretention EDD Level m(AHD)	57.35	55.35	54.65	52.85	55.65	56.35
(E) Wetland EDD Level m(AHD)	57.30	55.30	54.60	52.80	55.60	56.30
(F) Storage Pond EDD Level m(AHD)	55.55	54.85	53.35	52.05	54.75	55.55
(G) Sediment Pond NWL m(AHD)	57.00	55.00	53.00	52.50	55.30	56.00
Basin modelling allocation (ha) Refer C251	2.6082	2.6082	2.5691	1.5905	1.5402	1.3049
(I) Bioretention Filter Surface Area (m ²)	2044	1737	1671	657	844	681
(J) Wetland Plan Area (m ²)	3271	2779	2673	1052	1350	1090
(K) Pond Plan Area (m ²)	10221	8683	8354	3286	4219	3406
(L) Pond Volume (m ³)	30662	26050	25061	9859	12658	10219
Sediment Basin Surface Area (m ²)	818	695	668	263	338	273
Residual Allocation Area (m ²)	9729	12188	12325	10647	8651	7599
4EY Flow (undetailed) (m ³ /s)	2.8	2.5	2.44	0.95	1.41	0.88
4EY Flow (detailed) (m ³ /s)	-	0.423	-	-	0.26	0.16
Basin Services Pad Stages Constructed in Pad Stage	4.1	1.5	4.2	1	2.3	3
	1	1	2	1	2	3
Catchment Area (ha)	40.883	34.7339	33.415	13.1456	16.877	13.625
Bioretention Filter Surface Area (m ²) % Catch	0.50	0.50	0.50	0.50	0.50	0.50
Wetland Plan Area (m ²) % Catch	0.80	0.80	0.80	0.80	0.80	0.80
Pond Plan Area (m ²) % Catch	2.50	2.50	2.50	2.50	2.50	2.50
Sediment Basins Area (m ²) % Catch	0.2	0.2	0.2	0.2	0.2	0.2

TABLE: PRELIMINARY BASIN PARAMETERS

REFER DETAIL DRAWINGS C220 - C228 FOR DETAIL PLAN AND SECTIONS FOR EACH BASIN



INDICATIVE BASIN SECTION 1 (CONT.)

SCALE 1:100
 (NOTE: REFER TO TABLE FOR BASIN PARAMETERS)
 REFER DETAIL DRAWINGS C220-C228 FOR DETAIL PLAN AND SECTION FOR EACH BASIN

ISSUED FOR SSSA

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
06	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
05	ISSUED FOR DRAFT	JG	NW	30.05.25					
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024					
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024					
01	ISSUED FOR CONCEPT	MP	NW	25.07.24					

Client
HB&B Property Pty and ISPT Pty Ltd
 Architect / Surveyor
NETTLETONTRIBE
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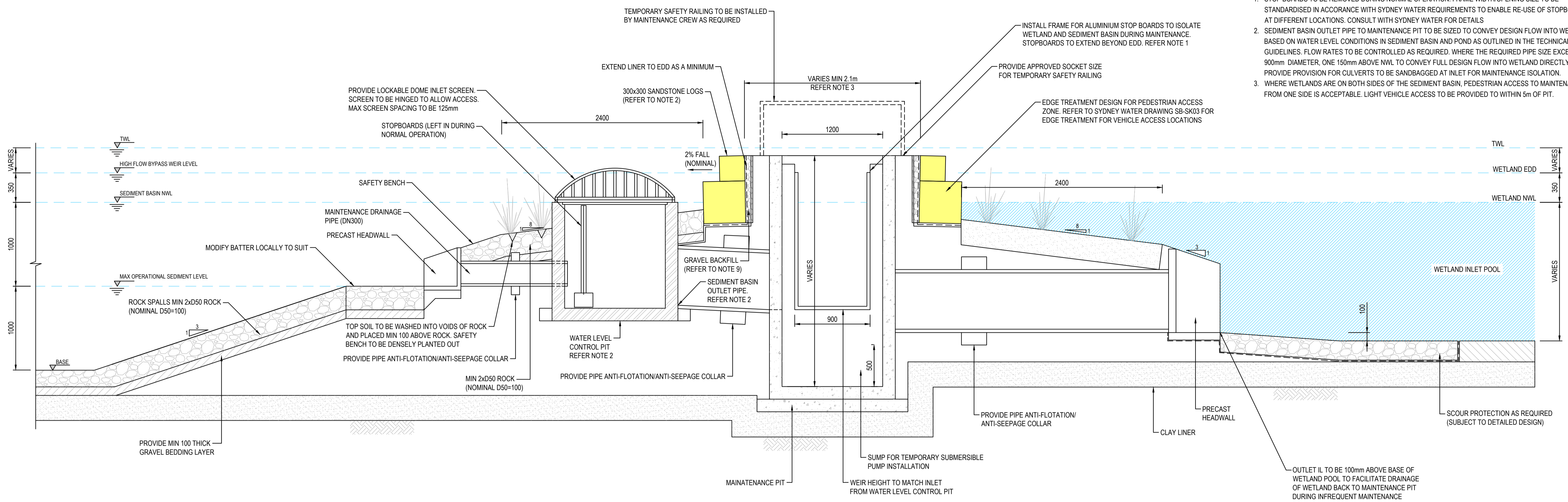
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Project
BURRAH PARK
 ELIZABETH DRIVE, BADGERY'S CREEK, NSW
 Title
REGIONAL STORMWATER BASIN INDICATIVE SECTION

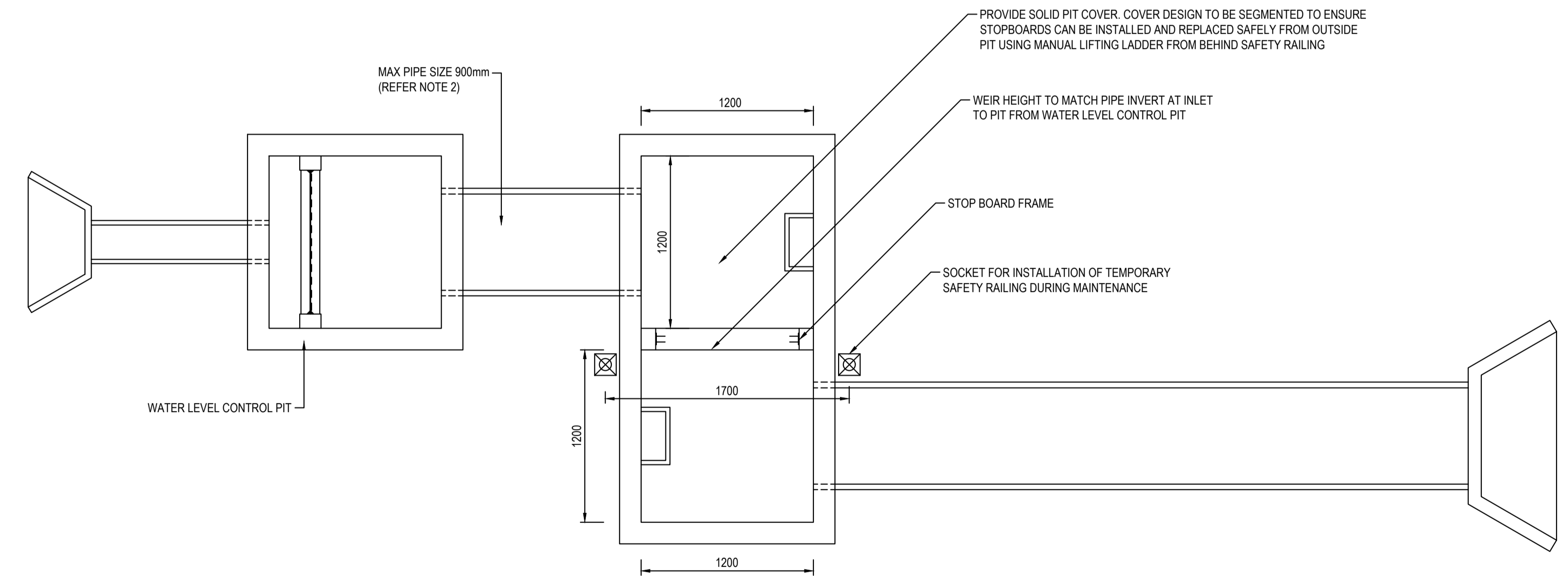
Drawn J.Garnham	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:100
Drawing number 240518_DA_C201	Revision 06	

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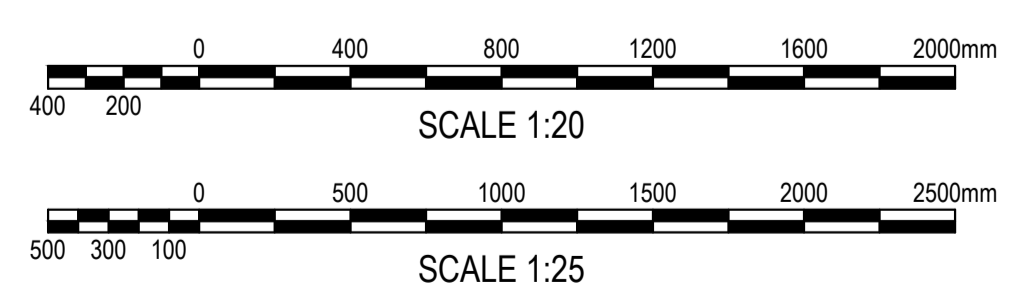


WATER LEVEL CONTROL AND MAINTENANCE PIT - SECTION
SCALE 1:25

- NOTES**
- STOP BOARDS TO BE REMOVED DURING NORMAL OPERATION. FRAME WIDTH/OPENING SIZE TO BE STANDARDISED IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS TO ENABLE RE-USE OF STOPBOARDS AT DIFFERENT LOCATIONS. CONSULT WITH SYDNEY WATER FOR DETAILS
 - SEDIMENT BASIN OUTLET PIPE TO MAINTENANCE PIT TO BE SIZED TO CONVEY DESIGN FLOW INTO WETLAND BASED ON WATER LEVEL CONDITIONS IN SEDIMENT BASIN AND POND AS OUTLINED IN THE TECHNICAL GUIDELINES. FLOW RATES TO BE CONTROLLED AS REQUIRED. WHERE THE REQUIRED PIPE SIZE EXCEEDS 900mm DIAMETER, ONE 150mm ABOVE NWL TO CONVEY FULL DESIGN FLOW INTO WETLAND DIRECTLY. PROVIDE PROVISION FOR CULVERTS TO BE SANDBAGGED AT INLET FOR MAINTENANCE ISOLATION.
 - WHERE WETLANDS ARE ON BOTH SIDES OF THE SEDIMENT BASIN, PEDESTRIAN ACCESS TO MAINTENANCE PIT FROM ONE SIDE IS ACCEPTABLE. LIGHT VEHICLE ACCESS TO BE PROVIDED TO WITHIN 5m OF PIT.



WATER LEVEL CONTROL AND MAINTENANCE PIT - PLAN VIEW
SCALE 1:25



ISSUED FOR SSDA

SURVEY INFORMATION		Client	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd	
DATUM: AHD		Architect / Surveyor	
ORIGIN OF LEVELS: PMZ5501, RL59.659		NETTLETONTRIBE	
REVISION	AMENDMENT	DRAWN	DESIGNED
		DATE	DATE

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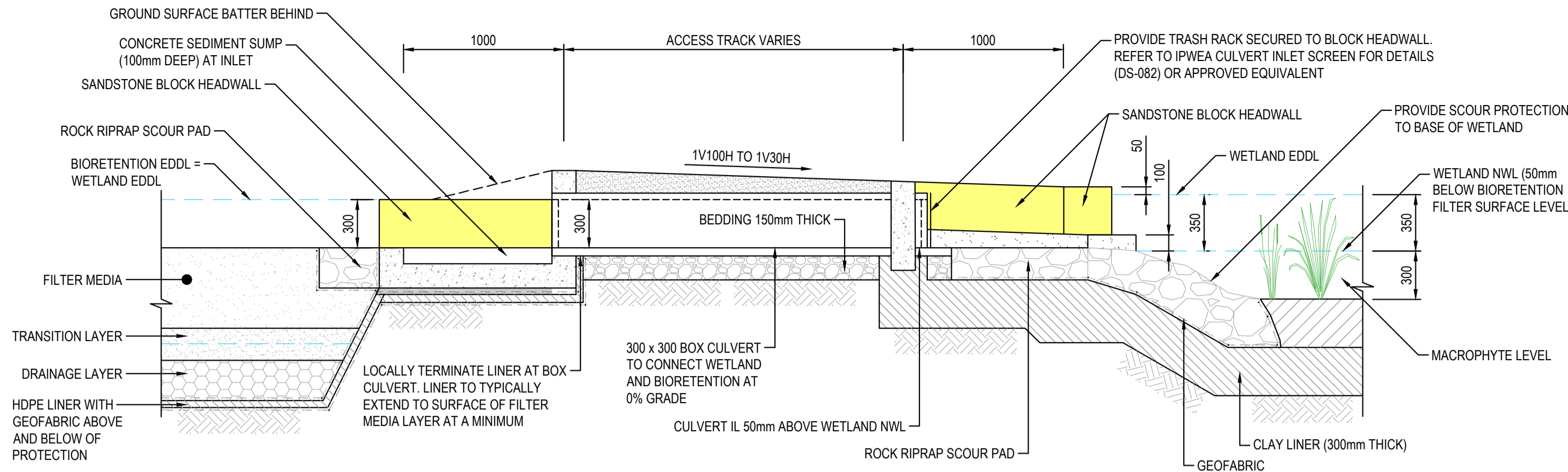
DRAWING TO BE PRINTED IN COLOUR



Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

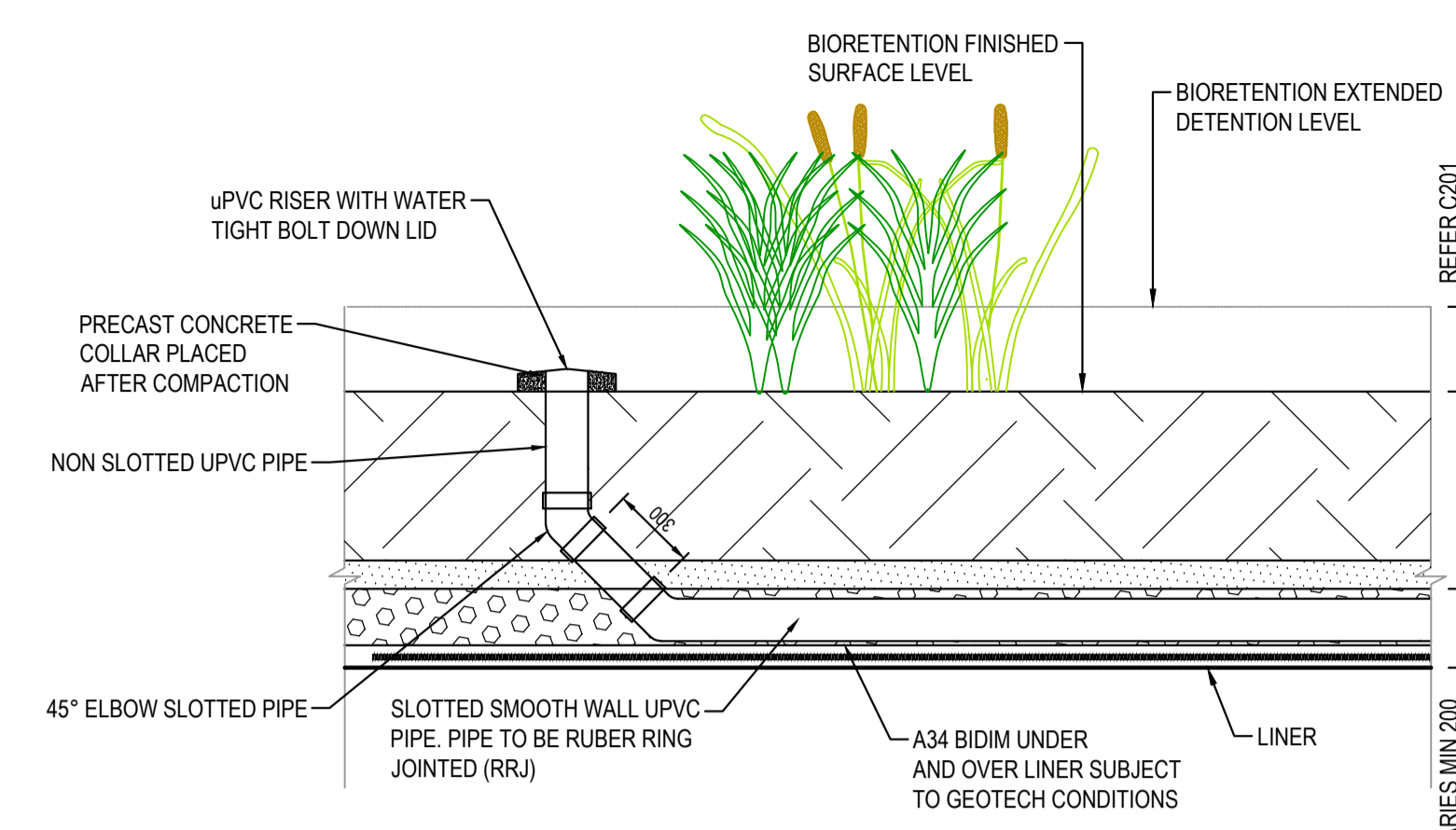
Title
REGIONAL STORMWATER BASIN
SEDIMENT BASIN DETAILS SHEET 2

Drawn	Designed	Original issue date
J.Garnham	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:100
Drawing number	Revision	
240518_DA_C203	06	



HIGH FLOW BIORETENTION OUTLET TYPICAL SECTION

SCALE 1:25

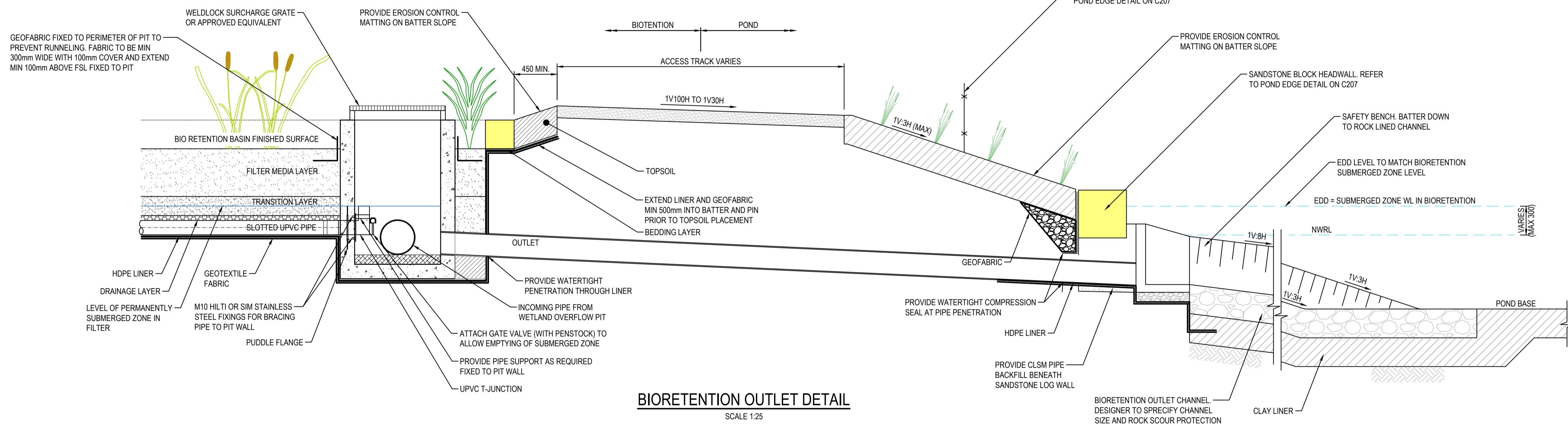


DRAINAGE & FLUSHING POINTS

NTS

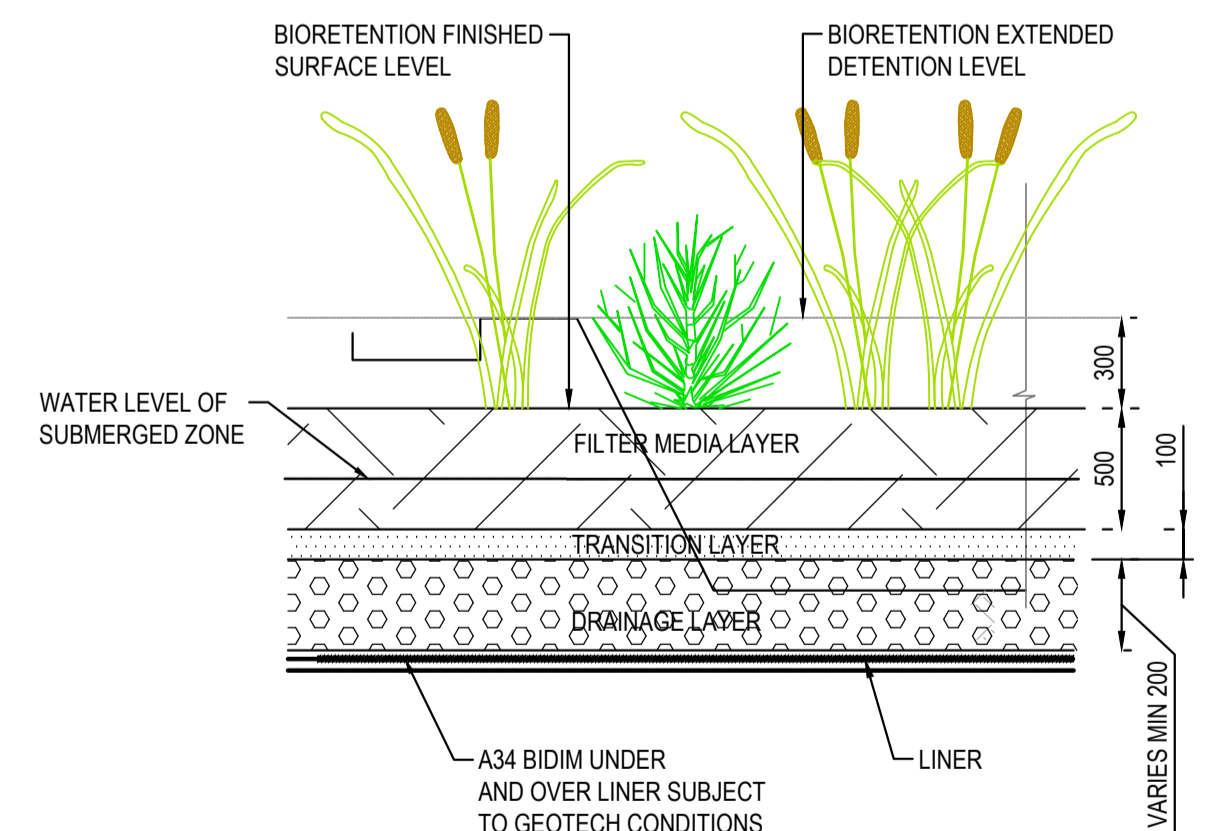
NOTES

1. OTHER LINERS IN POND, WETLAND AND BIORETENTION MAY BE ACCEPTED SUBJECT TO LOCAL CONDITIONS.
2. SANDSTONE LOG TO BE INSTALLED TO PROVIDE NEAR VERTICAL EDGE AND MINIMISE WADING BIRD HABITAT AT POND EDGE. ALTERNATIVE OPTIONS TO SANDSTONE LOGS MAY BE CONSIDERED.
3. REFER TO PLANTING SCHEDULE FOR PLANTING REQUIREMENTS.
4. NWL = NOMINAL WATER LEVEL
5. EDD = EXTENDED DETENTION DEPTH
6. TWL = TOP WATER LEVEL
7. UNITS IN MILLIMETRES UNLESS OTHERWISE NOTED.
8. ALL BURIED INFRASTRUCTURE TO BE CHECKED FOR FLOTATION UNDER THE CRITICAL ASSUMPTION THAT GROUNDWATER IS AT NWL AND ASSUMING THE WATER STORAGE IS EMPTY OR AS PER GEOTECHNICAL/GROUNDWATER CRITICAL SCENARIO ASSESSMENT. PROVIDE ANTI-FLOTATION MEASURES AS REQUIRED
9. ALL PITS TO BE WATERTIGHT
10. PROVIDE MIN 20mm CONCRETE BENCHING TO ALL STORMWATER PITS



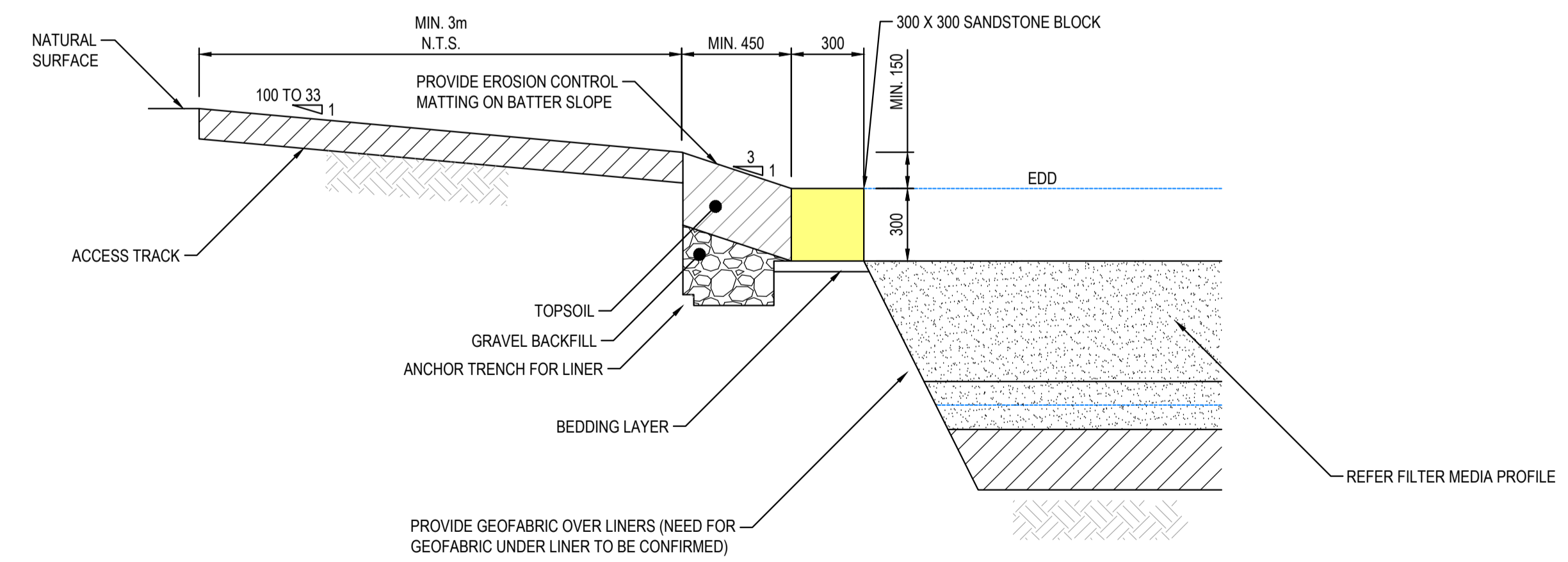
BIORETENTION OUTLET DETAIL

SCALE 1:25



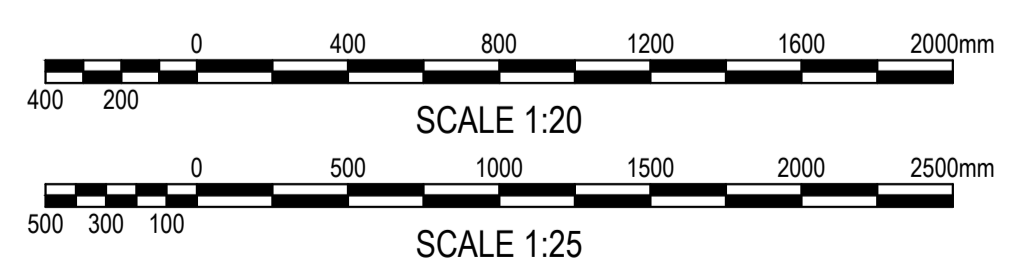
BIO-RETENTION FILTER PROFILE

SCALE 1:25



BIO-RETENTION TYPICAL EDGE DETAIL

SCALE 1:20



SURVEY INFORMATION		SURVEYED BY:		DATUM/AHD		ORIGIN OF LEVELS:		REVISION	
06	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
05	ISSUED FOR DRAFT	JG	NW	30.05.25					
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	AFe	SY	15.10.2024					
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024					
01	ISSUED FOR CONCEPT	MP	NW	25.07.24					
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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henry&hymas

Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

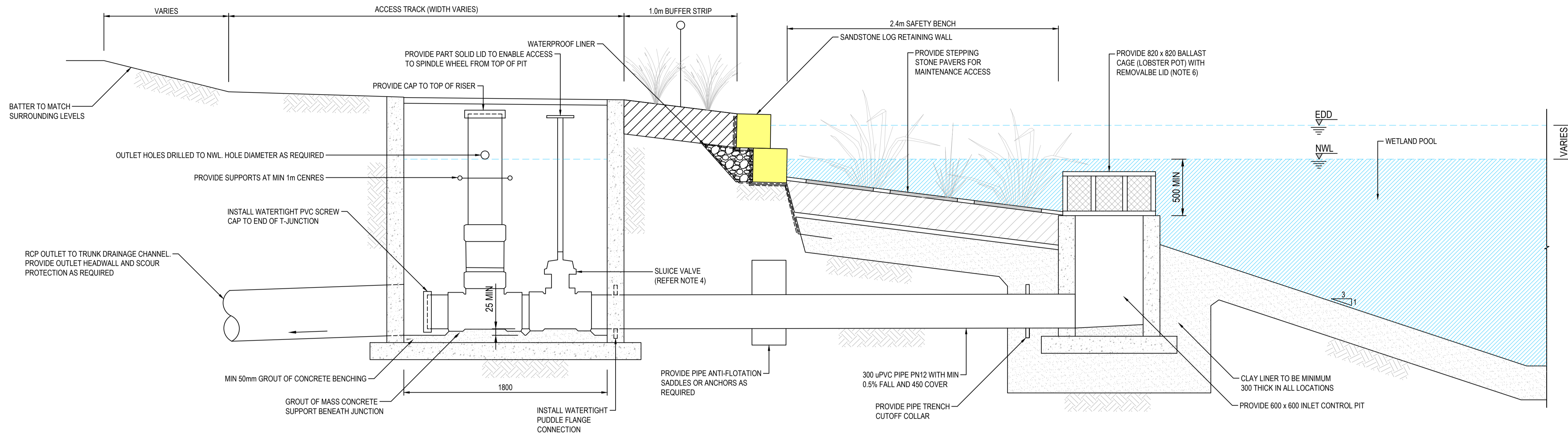
Title
REGIONAL STORMWATER BASIN BIORETENTION DETAILS

Drawn	J.Garnham	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale @A1	1:100
Drawing number	240518_DA_C204			Revision	06

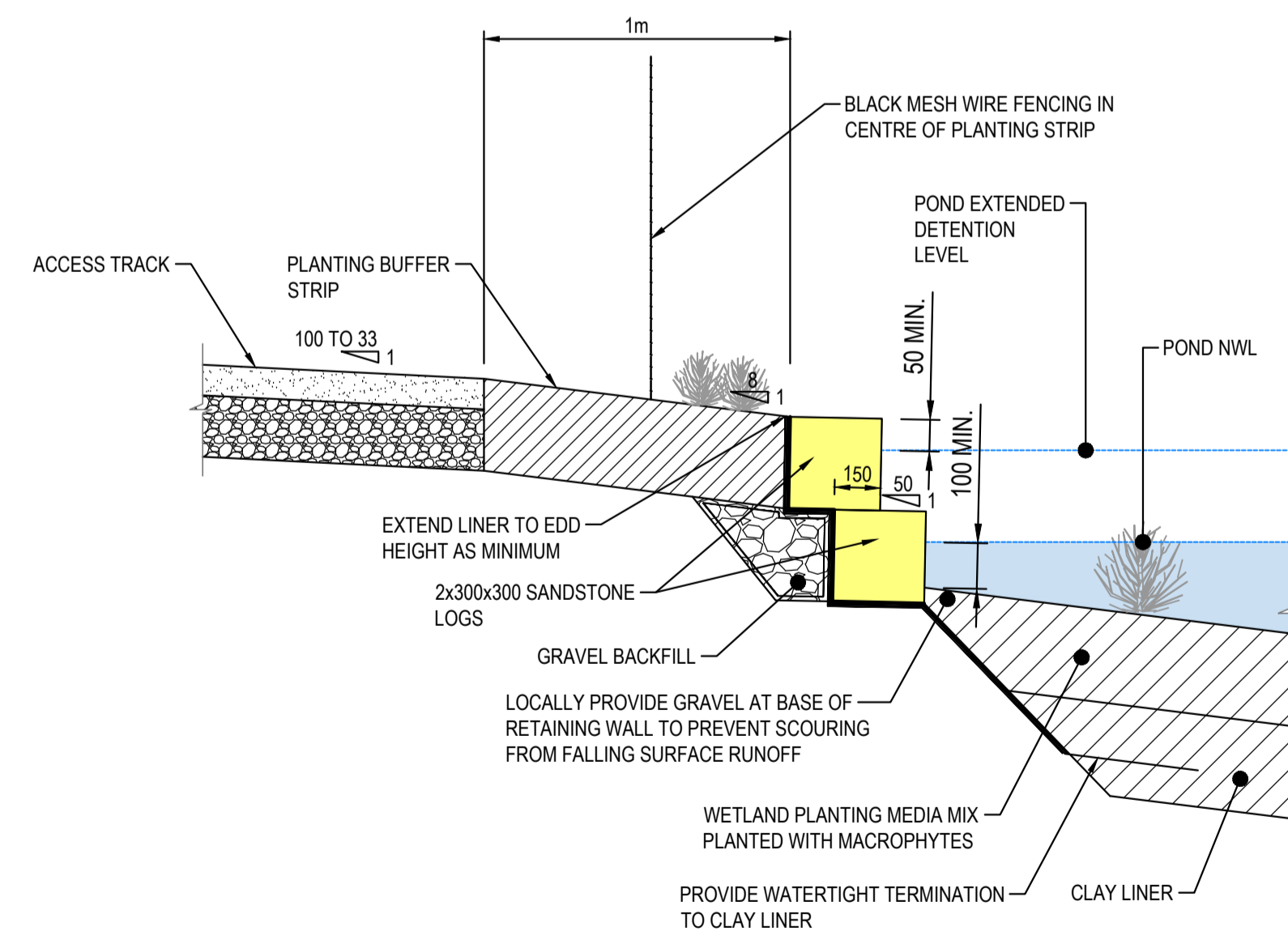
ISSUED FOR SSDA

NOTES

1. NWL = NOMINAL WATER LEVEL
2. EDD = EXTENDED DETENTION DEPTH
3. TWL = TOP WATER LEVEL
4. SLUICE VALVE TO BE INSTALLED TO SUIT OFF WETLAND BASE FLOW DISCHARGE DURING RECIRCULATION OPERATION. ARRANGEMENT TO BE CONFIRMED WITH SYDNEY WATER. SPINDLE TO EXTEND AS REQUIRED TO ALLOW OPERATION AT SURFACE LEVEL.
5. PROVIDE 20mm CONCRETE BENCHING TO ALL STORMWATER PITS.
6. REFER TO TNSW DRAWING CV0400998 FOR DETAILS.
7. ALL BURIED INFRASTRUCTURE TO BE CHECKED FOR FLOTATION UNDER THE CRITICAL ASSUMPTION THAT GROUNDWATER IS AT NWL AND ASSUMING THE WATER STORAGE IS EMPTY OR AS PER GEOTECHNICAL/GROUNDWATER CRITICAL SCENARIO ASSESSMENT. PROVIDE ANTI-FLOTATION MEASURES AS REQUIRED
8. ALL PITS TO BE WATERTIGHT



WETLAND WATER LEVEL CONTROL PIT SECTION
SCALE 1:20



WETLAND EDGE DETAIL
SCALE 1:20

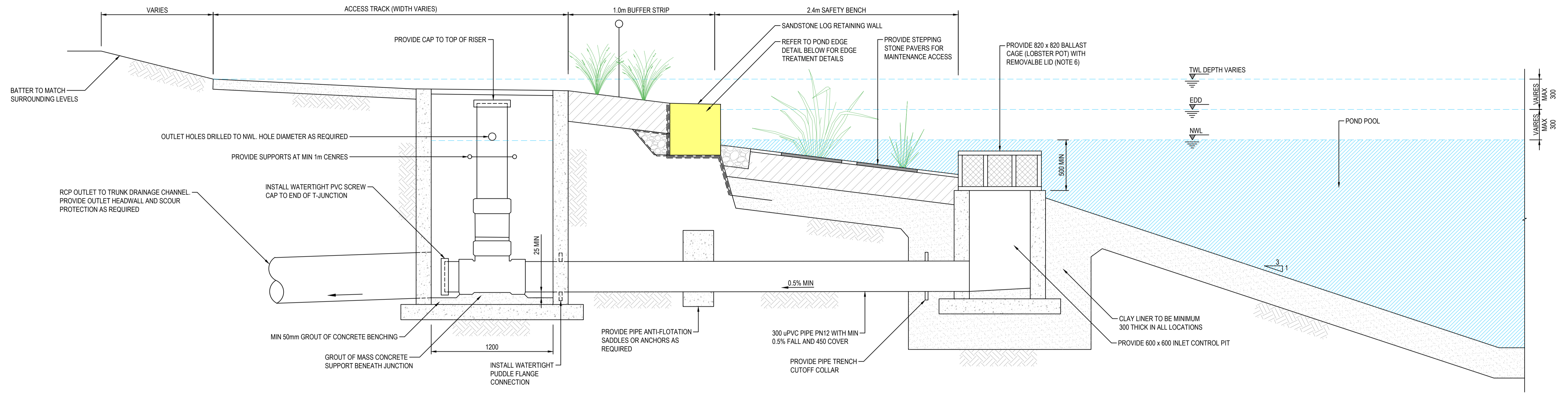


ISSUED FOR SSDA

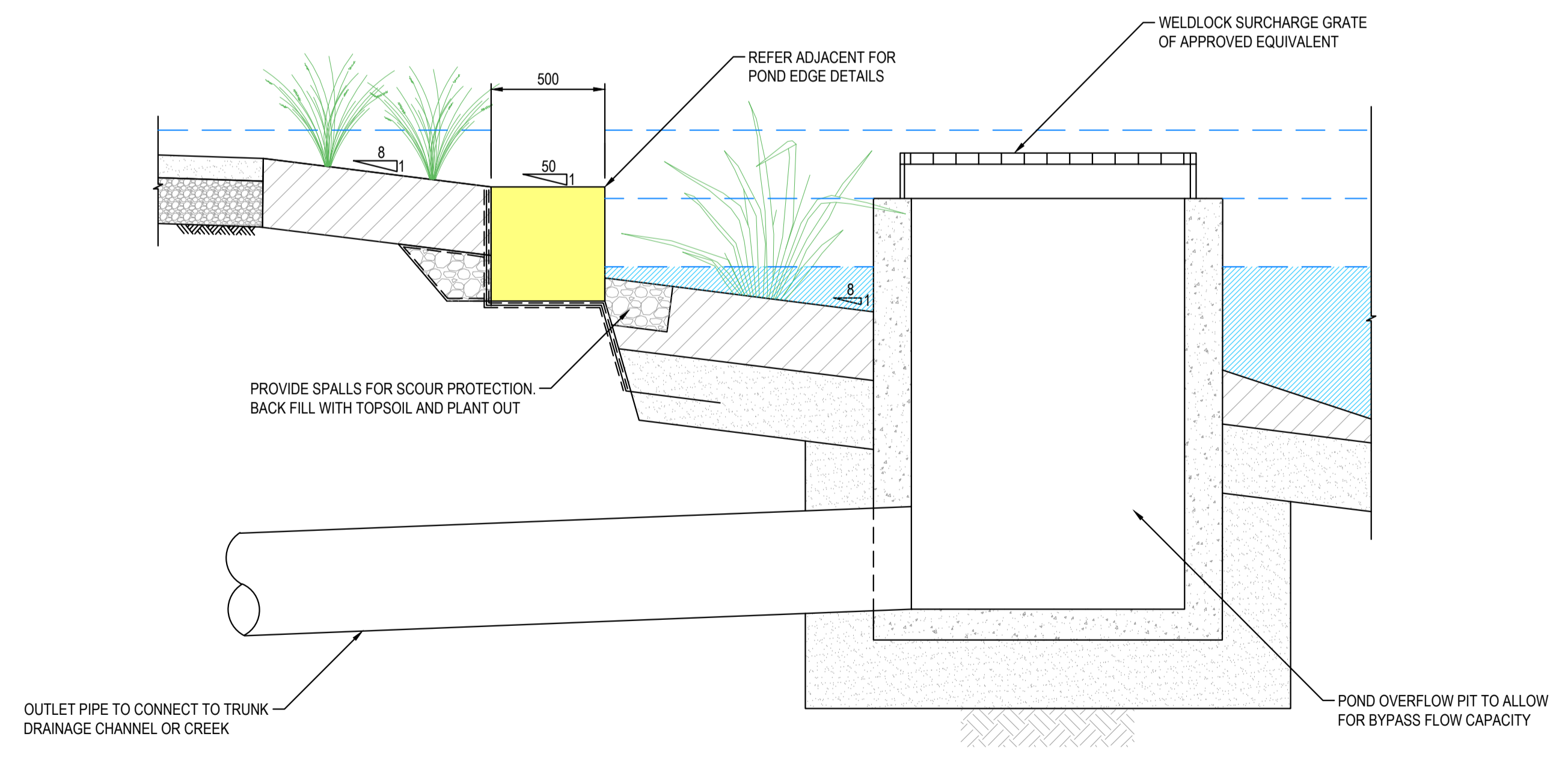
SURVEY INFORMATION				Client				Suite 2.01 828 Pacific Highway Gordon NSW 2072		Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hynconsult.com.au Web www.henryandhymas.com.au		Project		Drawn		Designed		Original issue date	
SURVEYED BY: LTSL				HB&B Property Pty and ISPT Pty Ltd				Architect / Surveyor		Henry & Hymas		BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW		J.Garnham		N.Wetzlar		45413	
DATUM: AHD				NETTLETONTRIBE				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		DRAWING TO BE PRINTED IN COLOUR		henry&hymas		Checked N.Wetzlar		Approved A.Francis		Scale @A1 1:100	
ORIGIN OF LEVELS: PM25501, RL59.659				REVISION								Drawing number		Revision		240518_DA_C205		01	
01 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				JG NW 06.06.2025															
AMENDMENT				DRAWN				DESIGNED				DATE							

NOTES

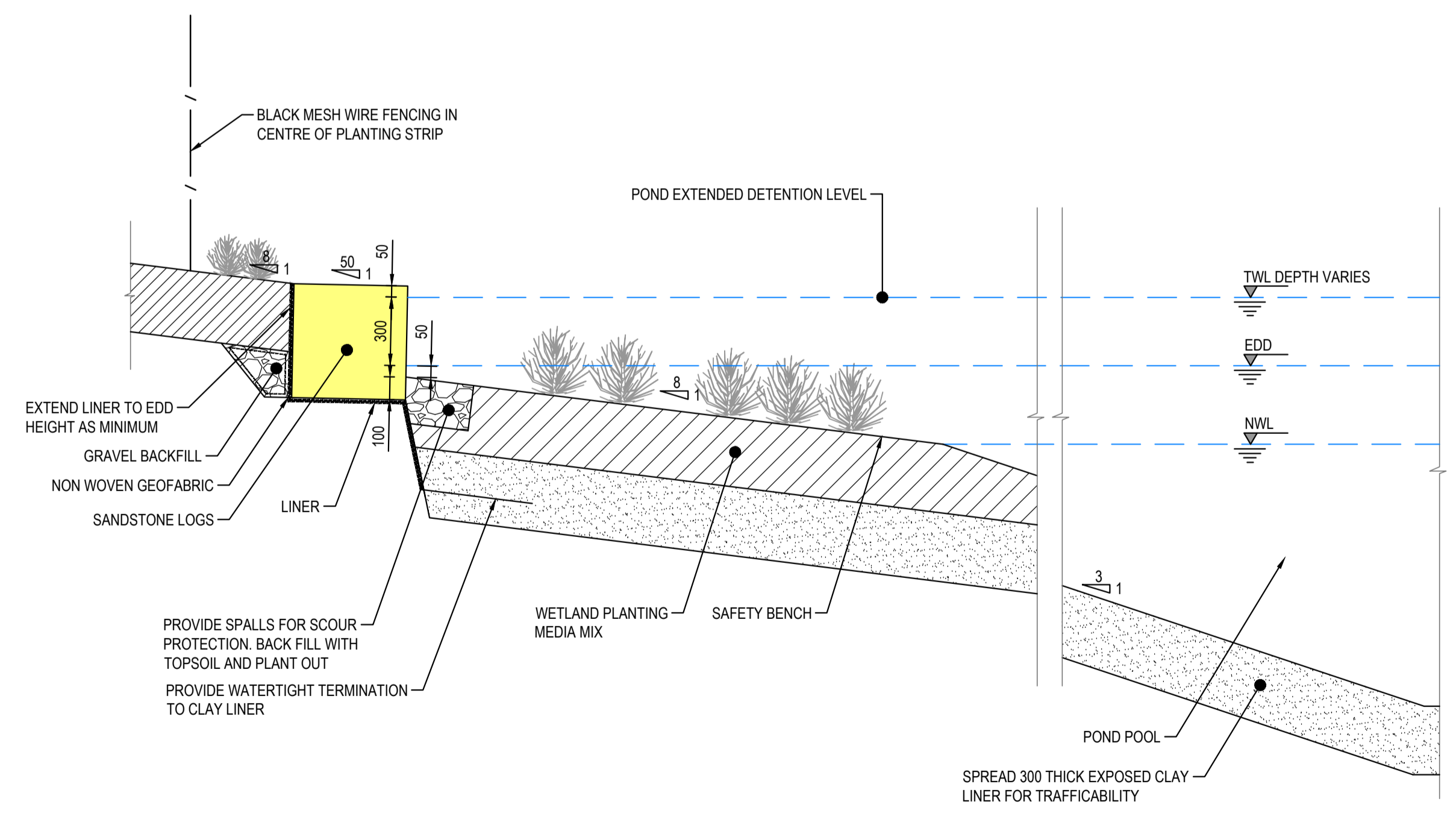
1. OTHER LINERS IN POND, WETLAND AND BIORETENTION MAY BE ACCEPTED SUBJECT TO LOCAL CONDITIONS.
2. SANDSTONE LOG TO BE INSTALLED TO PROVIDE NEAR VERTICAL EDGE AND MINIMISE WADING BIRD HABITAT AT POND EDGE. ALTERNATIVE OPTIONS TO SANDSTONE LOGS MAY BE CONSIDERED.
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9. ALL PITS TO BE WATERTIGHT
10. PROVIDE MIN 20mm CONCRETE BENCHING TO ALL STORMWATER PITS



POND WATER LEVEL CONTROL PIT SECTION
SCALE 1:20



POND OVERFLOW PIT DETAIL
SCALE 1:20



POND TYPICAL EDGE DETAIL
SCALE 1:20



ISSUED FOR SSSA

SURVEY INFORMATION				Client				Project				Drawn				Designed				Original issue date			
SURVEYED BY: LTSL				HB&B Property Pty and ISPT Pty Ltd				BURRAH PARK				J.Garnham				N.Wetzlar				45413			
DATUM: AHD				Architect / Supervisor				ELIZABETH DRIVE, BADGERY'S CREEK, NSW				Checked				Approved				Scale: B1			
ORIGIN OF LEVELS: PMZ5501, RL59.659				NETTLETONTRIBE				REGIONAL STORMWATER BASIN POND DETAILS				N.Wetzlar				A.Francis				AS NOTED			
REVISION				DRAWN				DESIGNED				DATE				DRAWING NUMBER				REVISION			
01 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				JG NW 06.06.2025				240518_DA_C207				01											

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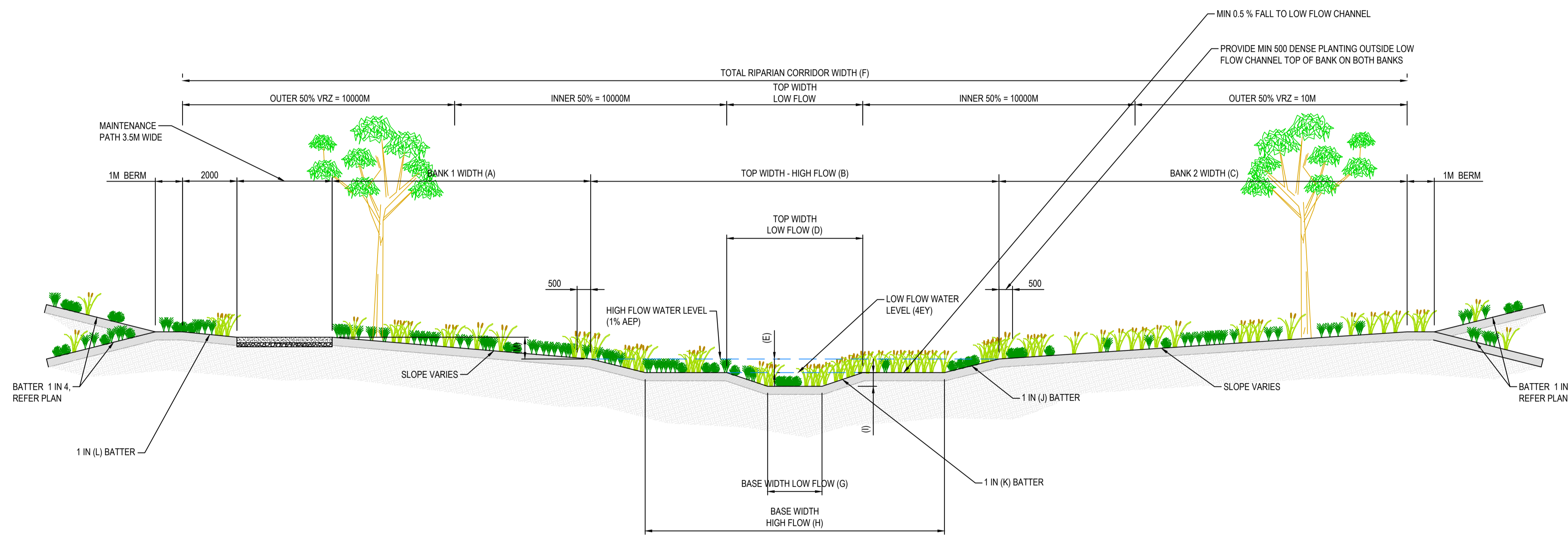
DRAWING TO BE PRINTED IN COLOUR



Henry & Hymas

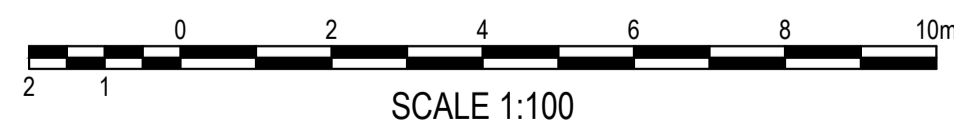
PRELIMINARY CHANNEL PARAMETERS

	CHANNEL TYPE 1	CHANNEL TYPE 2	CHANNEL TYPE 3	CHANNEL TYPE 5	CHANNEL TYPE 6
CHANNEL PORTION START CHAINAGE	0.000	507.326	992.139	REF PLAN	REF PLAN
CHANNEL PORTION END CHAINAGE	487.349	903.727	1229.641	REF PLAN	REF PLAN
MAX GRADE OF LOW FLOW CHANNEL	2.00%	2.00%	1.10%	2.00%	2.00%
MIN GRADE OF LOW FLOW CHANNEL	0.50%	0.50%	1.10%	2.00%	2.00%
(A) BANK 1 WIDTH	4.5m	4.5m	4.5m	-	-
(B) TOP WIDTH - HIGH FLOW	25m	26m	27m	11.8m	-
(C) BANK 2 WIDTH	10m	10m	10m	-	-
(D) TOP WIDTH LOW FLOW CHANNEL	5m	6m	7m	5m	10m
(E) TOP DEPTH HF - LF DEPTH	1m	1m	1m	1m	-
(F) TOTAL RIPARIAN CORRIDOR WIDTH	45m	46m	47m	20m	-
(G) BASE WIDTH LOW FLOW	3m	3m	2m	2m	2m
(H) BASE WIDTH HIGH FLOW	17m	18m	19m	7m	-
(I) LOW FLOW FLOW DEPTH	0.5m	0.5m	0.83m	0.5m	1m
(J) BATTER SLOPE 1	1 IN 4	1 IN 4	1 IN 4	1 IN 4	1 IN 4
(K) BATTER SLOPE 2	1 IN 3	1 IN 3	1 IN 3	1 IN 3	-
(L) BATTER SLOPE 3	1 IN 4	1 IN 4	1 IN 4	1 IN 4	-
LOW FLOW CHANNEL SIZED FOR:	4ey	4ey	4ey	4ey	1% AEP
HIGH FLOW CHANNEL SIZED FOR:	1% AEP	1% AEP	1% AEP	1% AEP	-
PRELIMINARY LOW FLOW FLOW RATE (m ³ /S)	1.390	2.570	2.570	1.410	1.270
PRELIMINARY HIGH FLOW FLOW RATE (m ³ /S)	3.650	-	13.900	2.470	-



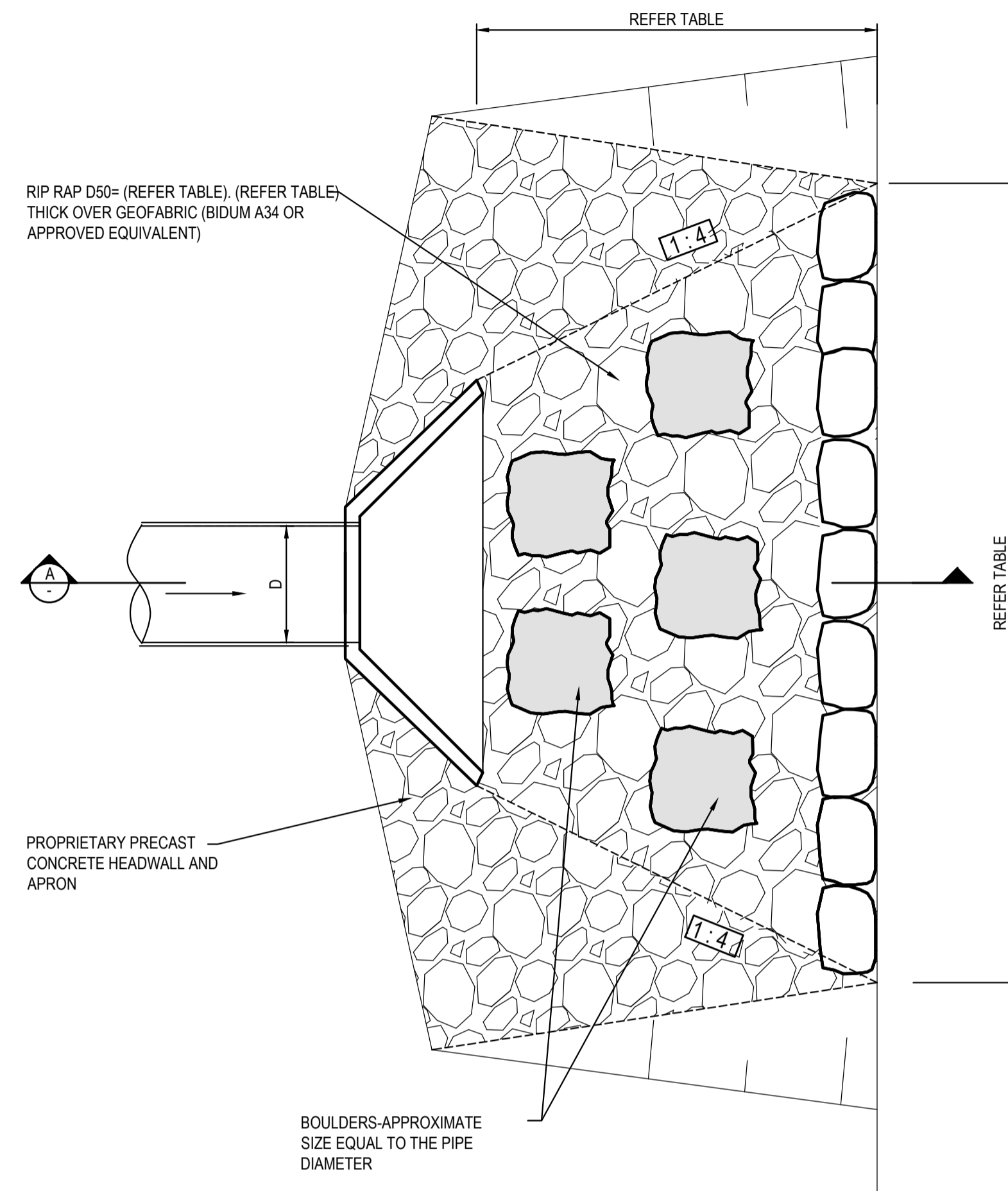
TYPICAL CHANNEL CROSS SECTIONS

SCALE 1:100
REFER TO C240-C245 FOR DETAILED SECTIONS

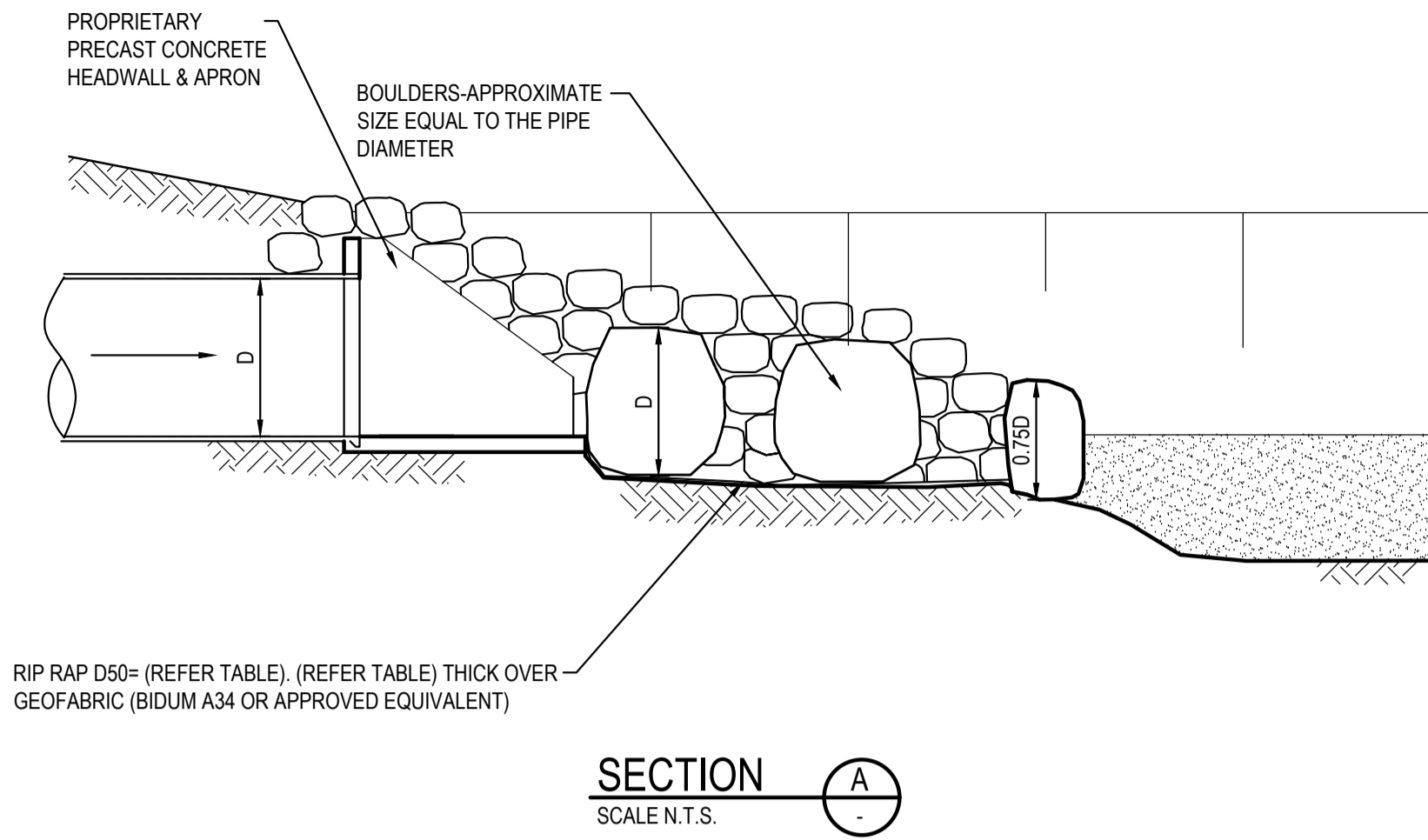


ISSUED FOR SSDA

SURVEY INFORMATION				Client				Project				Drawn			
SURVEYED BY: LTSL				HB&B Property Pty and ISPT Pty Ltd				BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW				J.Garnham			
DATUM: AHD				Architect / Surveyor NETTLETONTRIBE				Title REGIONAL STORMWATER BASIN TRUNK DRAINAGE DETAIL				Designed N.Wetzlar			
ORIGIN OF LEVELS: PMZ5501, RL59.659				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Drawing number 240518_DA_C208				Original issue date 45413			
REVISION				DRAWN				DRAWING TO BE PRINTED IN COLOUR				Scale: B/A1 1:100			
01 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				DRAWN				henry&hymas				Revision 01			



ROCK HEADWALL - OUTLET PLAN TYPICAL
SCALE N.T.S.



SECTION A-A
SCALE N.T.S.

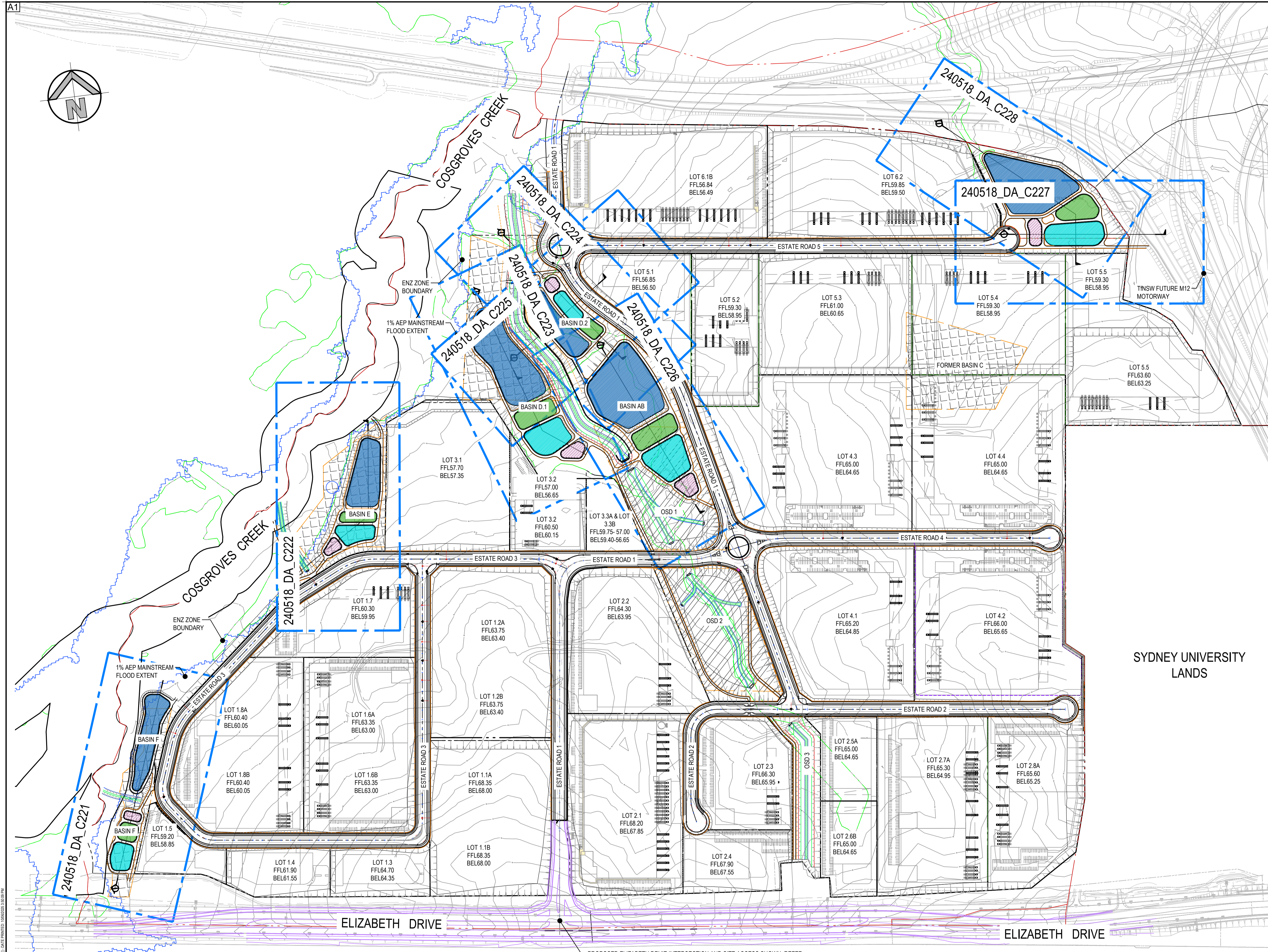
Drainage Structure ID	Culvert Shape	Culvert Height / Diam		Median Rock Size D50 mm	Min. Thickness of Riprap T mm	Scour Protection Length m	Scour Protection Width m	Drawing Reference
		D	W					
		m	m					
A-12	Rectangular	0.900	1.500	200.000	360.000	3.000	2.700	240518_DA_C258
B-13	Rectangular	0.900	1.500	200.000	360.000	3.000	2.700	240518_DA_C256
D-13	Rectangular	1.500	1.200	300.000	540.000	4.000	2.800	240518_DA_C256
V-3	Circular	0.750	-	200.000	360.000	3.000	1.950	240518_DA_C259
U-3	Circular	0.750	-	200.000	360.000	3.000	1.950	240518_DA_C259
R-3	Circular	0.900	-	200.000	360.000	3.000	2.100	240518_DA_C259
G-10	Circular	1.500	-	300.000	540.000	4.000	3.100	240518_DA_C259
F-9	Circular	1.350	-	500.000	900.000	5.000	3.350	240518_DA_C259
P-3	Rectangular	0.600	1.800	200.000	360.000	3.000	3.000	240518_DA_C256
H-4	Circular	1.200	-	300.000	540.000	4.000	2.800	240518_DA_C256
T02-2	Rectangular	0.600	1.500	400.000	720.000	3.000	4.200	240518_DA_C256
J-3	Circular	0.375	-	100.000	180.000	3.000	1.575	240518_DA_C256
I-13	Circular	1.650	-	500.000	900.000	5.000	3.650	240518_DA_C256
K-6	Circular	1.500	-	300.000	540.000	4.000	3.100	240518_DA_C256
Q-4	Circular	0.750	-	200.000	360.000	3.000	1.950	240518_DA_C256
S-4	Circular	0.750	-	200.000	360.000	3.000	1.950	240518_DA_C256
L-12	Rectangular	0.900	1.500	200.000	360.000	3.000	2.700	240518_DA_C254
O-11	Rectangular	1.200	1.800	400.000	720.000	4.000	3.400	240518_DA_C255
T01-2	Circular	0.900	4.800	500.000	900.000	4.000	6.400	240518_DA_C256

ROCK SIZE (mm)	D ₅₀					ROCK DISTRIBUTION BY %
	200mm	300mm	400mm	500mm	600mm	
400	400	600	750	850	900	15-25%
300	300	400	525	600	750	20%
200	200	300	400	500	600	50%
75	75	100	150	150	200	15-25%

ROCK GRADATION TABLE

ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PMZ5501, RL59.659		05 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) JG NW 09.06.2025 04 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) MP SY 31.10.2024 03 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) MS SY 15.10.2024 02 ISSUED FOR CONCEPT MP NW 16.08.2024 01 ISSUED FOR CONCEPT MP NW 25.07.24		Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE Suite 2.01, 828 Pacific Highway, Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hiconsult.com.au Web: www.henryandhymas.com.au		Project: BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW Title: BIO-RETENTION BASIN SECTIONS AND STORMWATER DETAILS		Drawn: L.Caha Checked: N.Wetzlar Designed: N.Wetzlar Approved: A.Francis Original issue date: 45413 Scale: @A1 NTS	
REVISION AMENDMENT DRAWN DESIGNED DATE		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		DRAWING TO BE PRINTED IN COLOUR		Drawing number: 240518_DA_C210		Revision: 05	



LEGEND	
	PROPOSED BOUNDARY
	EXISTING SITE BOUNDARY
	PROPOSED ROAD BOUNDARY
	PROPOSED LOT BOUNDARY
	ENZ BOUNDARY (INDICATIVE)
	PROPOSED CONTOURS
	EXISTING CONTOURS
	FLOOD EXTENT 1% AEP
	COSGROVES CREEK
	PROPOSED LIMIT OF WORK
	PROPOSED JUNCTION PITS
	PROPOSED SURFACE INLET PITS
	PROPOSED LINTEL ONGRADE & SAG PITS
	PROPOSED PIT TAG
	PROPOSED STORMWATER PIPE
	PROPOSED STORMWATER CULVERT
	EXISTING BATTER LINE
	PROPOSED BATTER LINE
	PROPOSED SPOT LEVEL
	PROPOSED RETAINING WALL
	PROPOSED KERB & GUTTER
	SYDNEY WATER REGIONAL COMBINED WSUD WETLANDS AND INDICATIVE DETENTION ZONE ALLOCATION.
	SYDNEY WATER REGIONAL WSUD WETLAND ALLOCATION.
	PROPOSED BIORETENTION BASIN
	PROPOSED WETLAND
	PROPOSED STORAGE POND
	PROPOSED OSD ZONE
	PROPOSED SEDIMENT POND

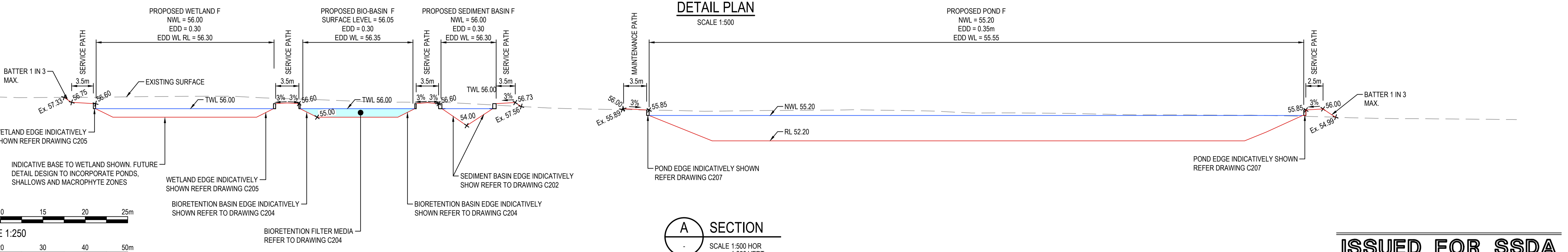
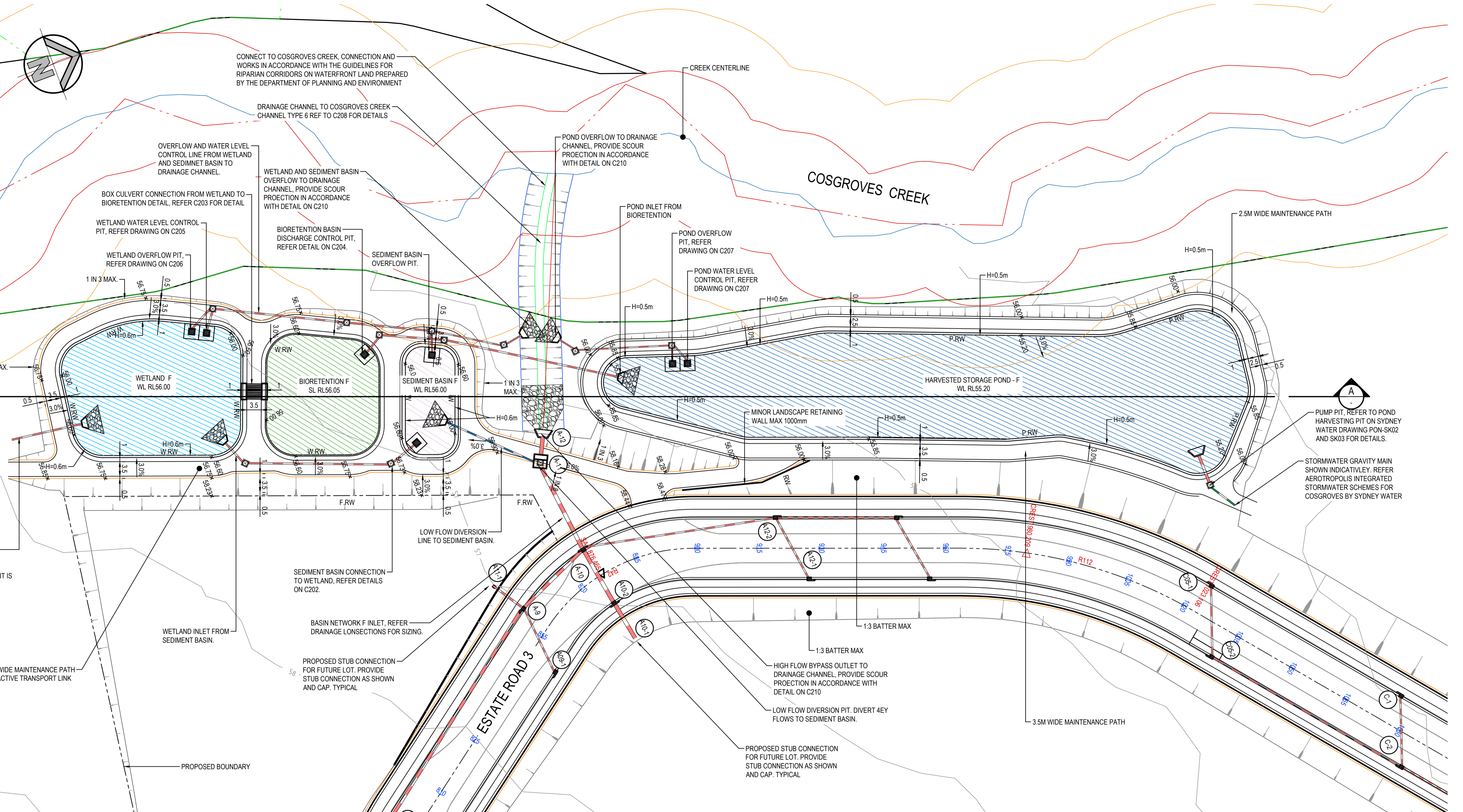
SYDNEY UNIVERSITY LANDS

PROPOSED ELIZABETH DRIVE INTERSECTION AND SITE ACCESS SHOWN. REFER ROAD DESIGN DRAWINGS BY ARCADIS OF FURTHER DETAILS. INTERSECTION AND ROAD UPGRADE SHOWN PART OF DEVELOPMENT PROPOSAL.

ISSUED FOR SSSA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PMZ5501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE Suite 2.01, 828 Pacific Highway, Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hobsonit.com.au Web: www.henryandhymas.com.au				Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: BASINS GENERAL ARRANGEMENT				Drawn: J.Garnham Checked: N.Wetzlar Drawing number: 240518_DA_C220				Designed: N.Wetzlar Approved: A.Francis Scale: @A1 Original issue date: 45413 Scale: @A1 1:3000 Revision: 02			
REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE					
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	06.06.2025	01	ISSUED FOR DRAFT	30.05.25														

Basin F	
(A) Bioretention Surface Level m(AHD)	56.05
(B) Wetland NWL m(AHD)	56.00
(C) Storage Pond NWL m(AHD)	55.20
(D) Bioretention EDD Level m(AHD)	56.35
(E) Wetland EDD Level m(AHD)	56.30
(F) Storage Pond EDD Level m(AHD)	55.55
(G) Sediment Pond NWL m(AHD)	56.00
Basin modelling allocation (ha) Refer C251	
(I) Bioretention Filter Surface Area (m ²)	681
(J) Wetland Plan Area (m ²)	1090
(K) Pond Plan Area (m ²)	3406
(L) Pond Volume (m ³)	10219
(M) Sediment Basin Surface Area (m ²)	273
Residual Allocation Area (m ²)	7599
4EY Flow (m ³ /s)	
4EY Flow (m ³ /s) w/ detention	0.16
Basin Services Pad Stages	3.000
Constructed in Pad Stage	3.000
Catchment Area ha.	
Catchment Area ha.	13.625
Bioretention Filter Surface Area (m ²) % Catch	
Bioretention Filter Surface Area (m ²) % Catch	0.50
Wetland Plan Area (m ²) % Catch	
Wetland Plan Area (m ²) % Catch	0.80
Pond Plan Area (m ²) % Catch	
Pond Plan Area (m ²) % Catch	2.50
Sediment Basins Area (m ²) % Catch	
Sediment Basins Area (m ²) % Catch	0.200

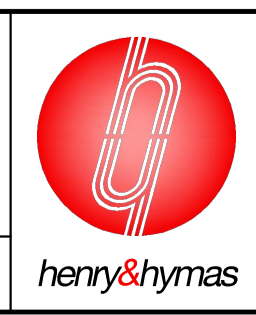


ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PM25501, RL59.659				
REVISION	AMENDMENT	DATE	DESIGNED	DRAWN
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	06.08.2025	JG	NW
01	ISSUED FOR DRAFT	30.05.25	MP	NW

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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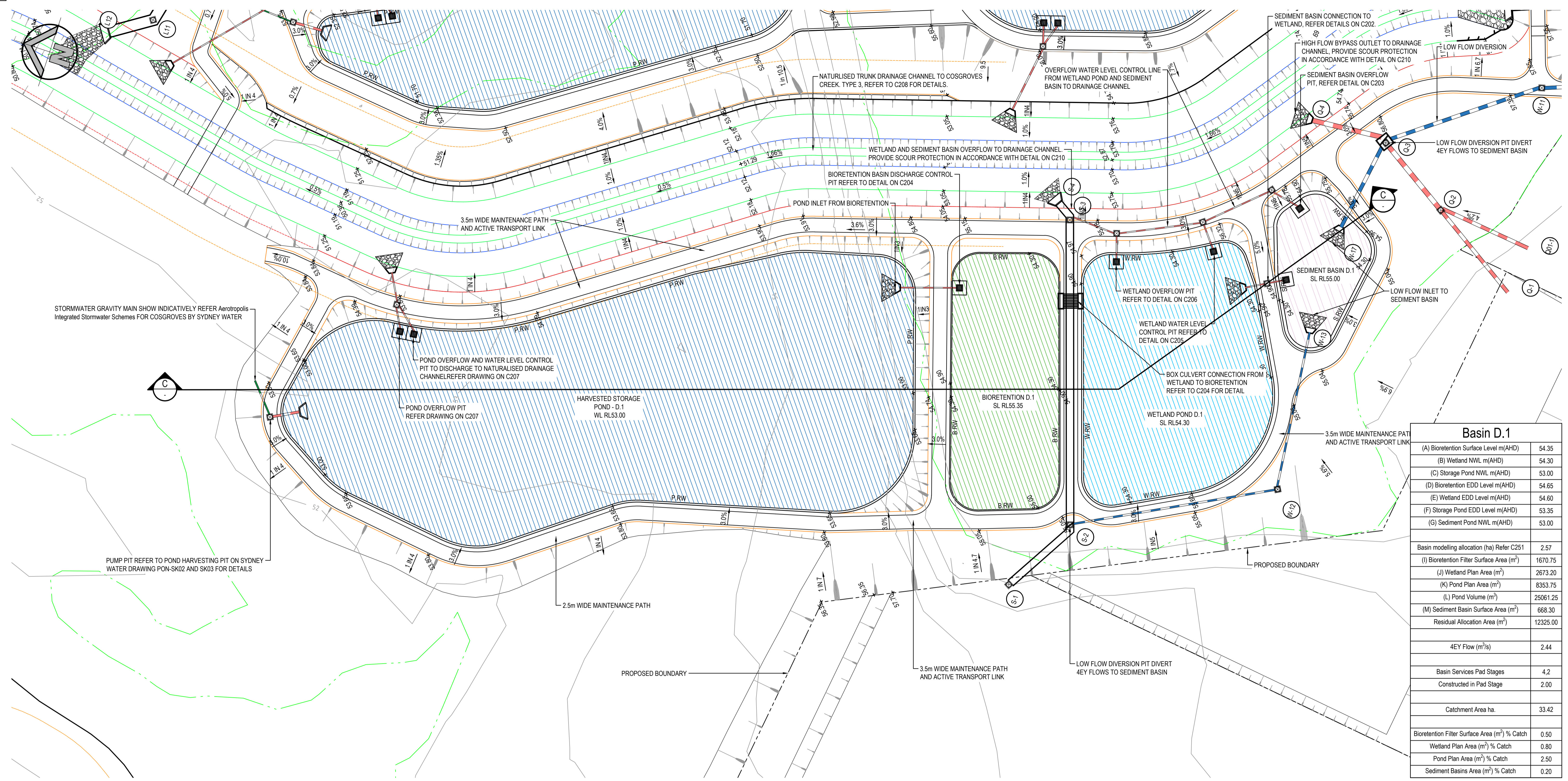
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Drawn	J.Garnham
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Drawing number	240518_DA_C221
Revision	02

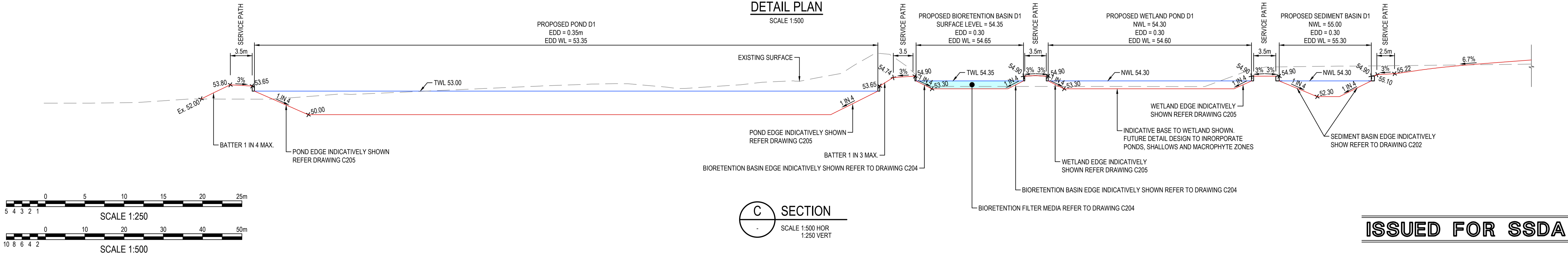
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A1

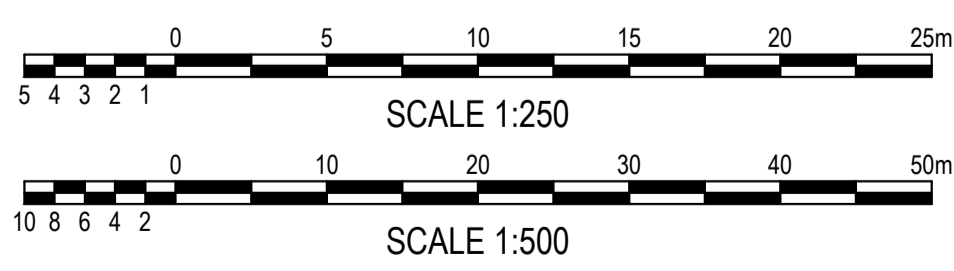


Basin D.1		
(A) Bioretention Surface Level m(AHD)	54.35	
(B) Wetland NWL m(AHD)	54.30	
(C) Storage Pond NWL m(AHD)	53.00	
(D) Bioretention EDD Level m(AHD)	54.65	
(E) Wetland EDD Level m(AHD)	54.60	
(F) Storage Pond EDD Level m(AHD)	53.35	
(G) Sediment Pond NWL m(AHD)	53.00	
Basin modelling allocation (ha) Refer C251		2.57
(I) Bioretention Filter Surface Area (m ²)	1670.75	
(J) Wetland Plan Area (m ²)	2673.20	
(K) Pond Plan Area (m ²)	8353.75	
(L) Pond Volume (m ³)	25061.25	
(M) Sediment Basin Surface Area (m ²)	668.30	
Residual Allocation Area (m ²)	12325.00	
4EY Flow (m ³ /s)	2.44	
Basin Services Pad Stages	4.2	
Constructed in Pad Stage	2.00	
Catchment Area ha.	33.42	
Bioretention Filter Surface Area (m ²) % Catch	0.50	
Wetland Plan Area (m ²) % Catch	0.80	
Pond Plan Area (m ²) % Catch	2.50	
Sediment Basins Area (m ²) % Catch	0.20	

DETAIL PLAN SCALE 1:500



C SECTION SCALE 1:500 HOR 1:250 VERT

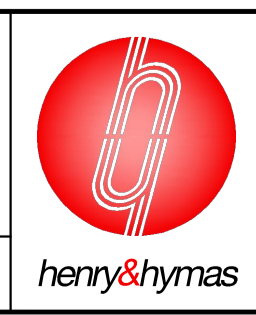


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SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PM25501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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01	ISSUED FOR DRAFT	MP	NW	30.05.25

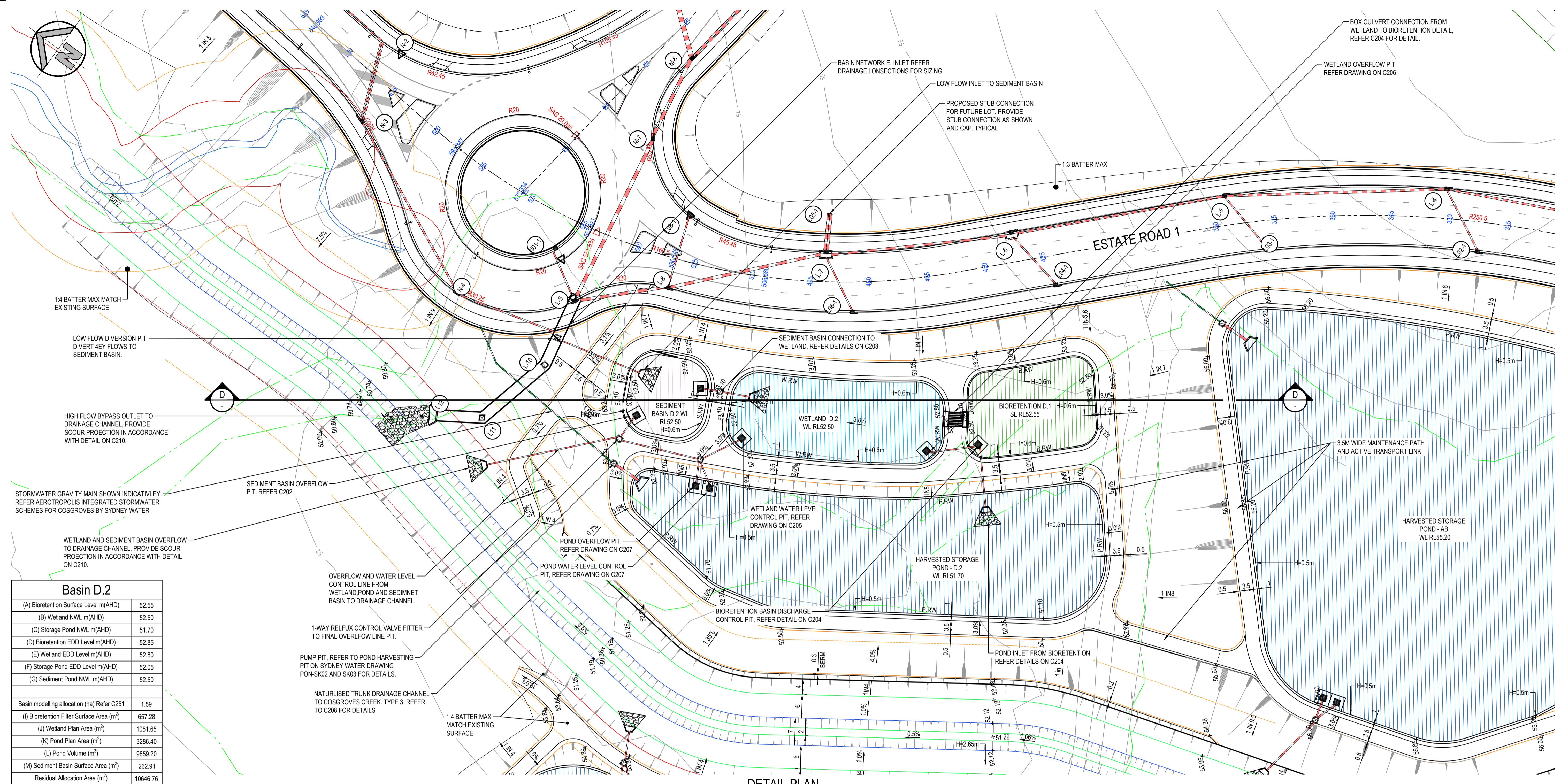
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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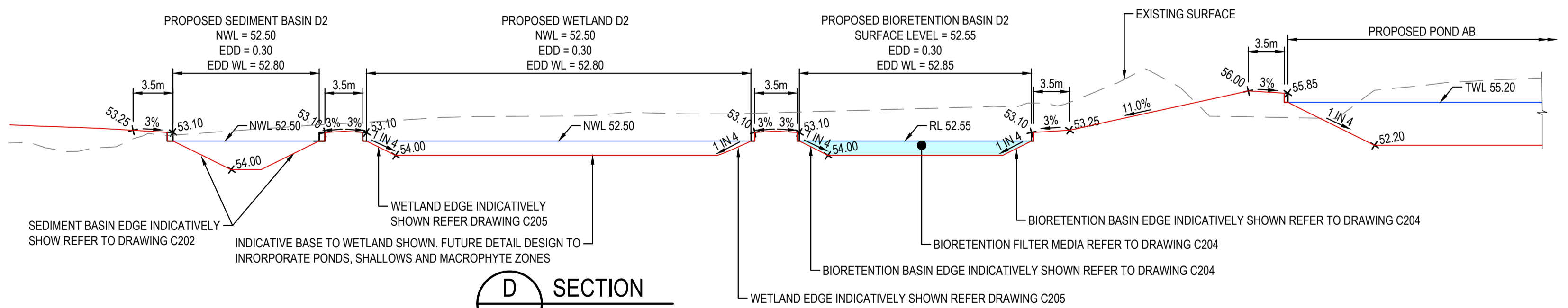
Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Drawn	J.Garnham
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Original issue date	45413
Scale @A1	1:250
Drawing number	240518_DA_C223
Revision	02

DRAWING TO BE PRINTED IN COLOUR	
Title	
BASIN D.1 PLAN AND LONG SECTION	

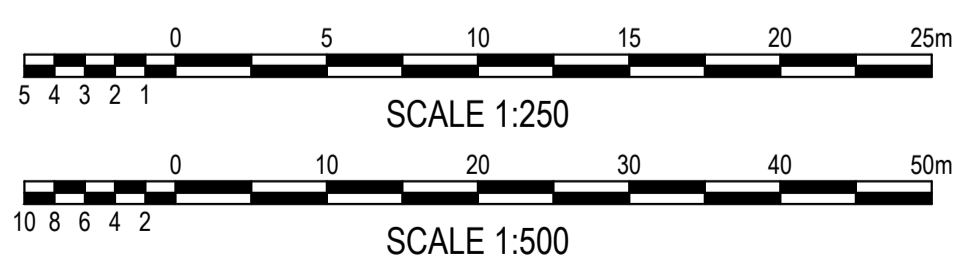


Basin D.2	
(A) Bioretention Surface Level m(AHD)	52.55
(B) Wetland NWL m(AHD)	52.50
(C) Storage Pond NWL m(AHD)	51.70
(D) Bioretention EDD Level m(AHD)	52.85
(E) Wetland EDD Level m(AHD)	52.80
(F) Storage Pond EDD Level m(AHD)	52.05
(G) Sediment Pond NWL m(AHD)	52.50
Basin modelling allocation (ha) Refer C251	
(I) Bioretention Filter Surface Area (m ²)	657.28
(J) Wetland Plan Area (m ²)	1051.65
(K) Pond Plan Area (m ²)	3286.40
(L) Pond Volume (m ³)	9859.20
(M) Sediment Basin Surface Area (m ²)	262.91
Residual Allocation Area (m ²)	10646.76
4EY Flow (m ³ /s)	0.95
Basin Services Pad Stages	1.00
Constructed in Pad Stage	1.00
Catchment Area ha.	13.15
Bioretention Filter Surface Area (m ²) % Catch	0.50
Wetland Plan Area (m ²) % Catch	0.80
Pond Plan Area (m ²) % Catch	2.50
Sediment Basins Area (m ²) % Catch	0.20

DETAIL PLAN
SCALE 1:500



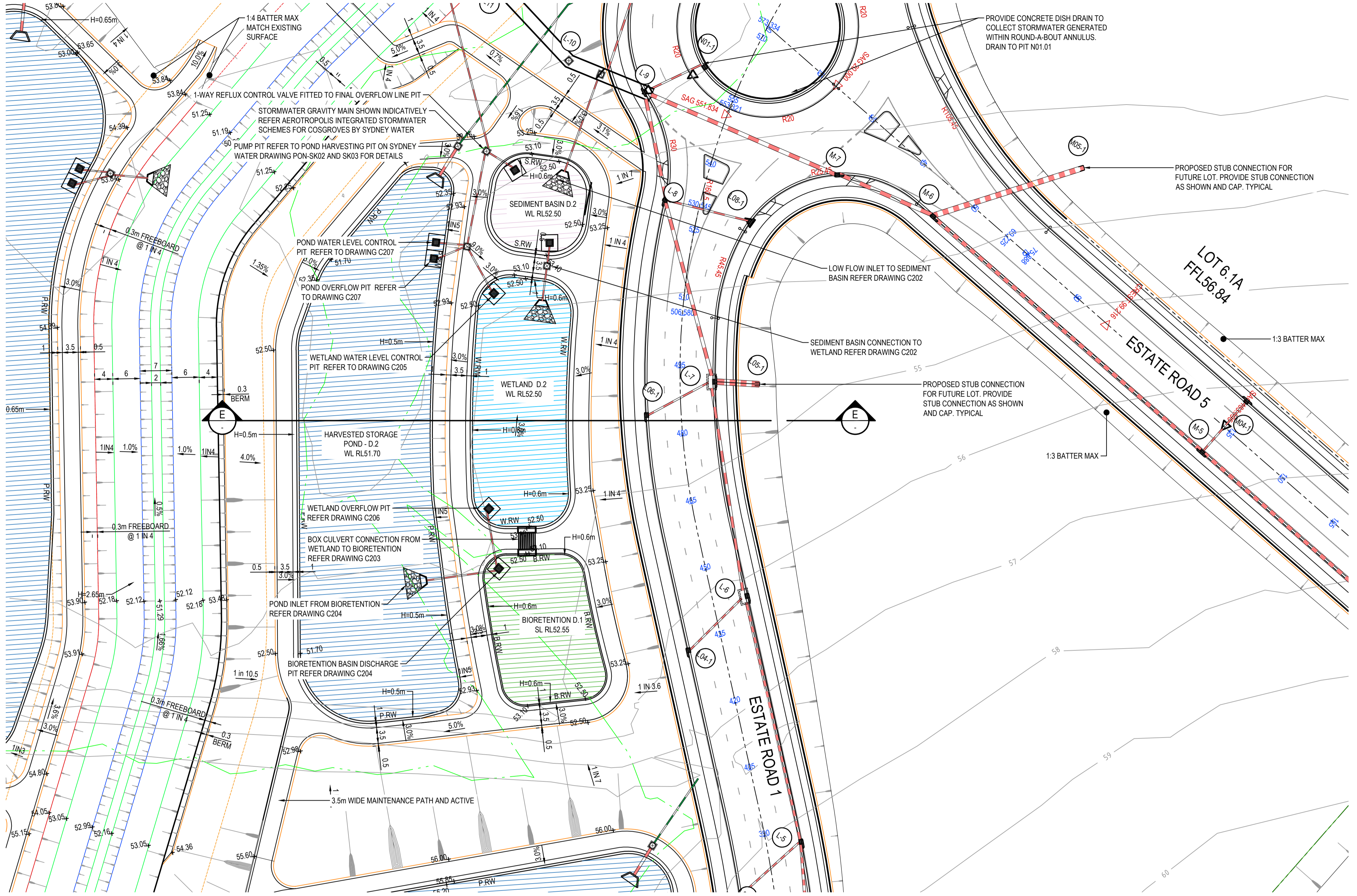
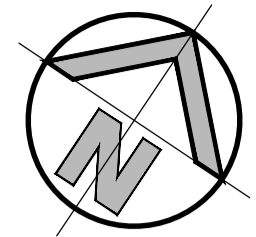
D SECTION
SCALE 1:500 HOR
1:250 VERT



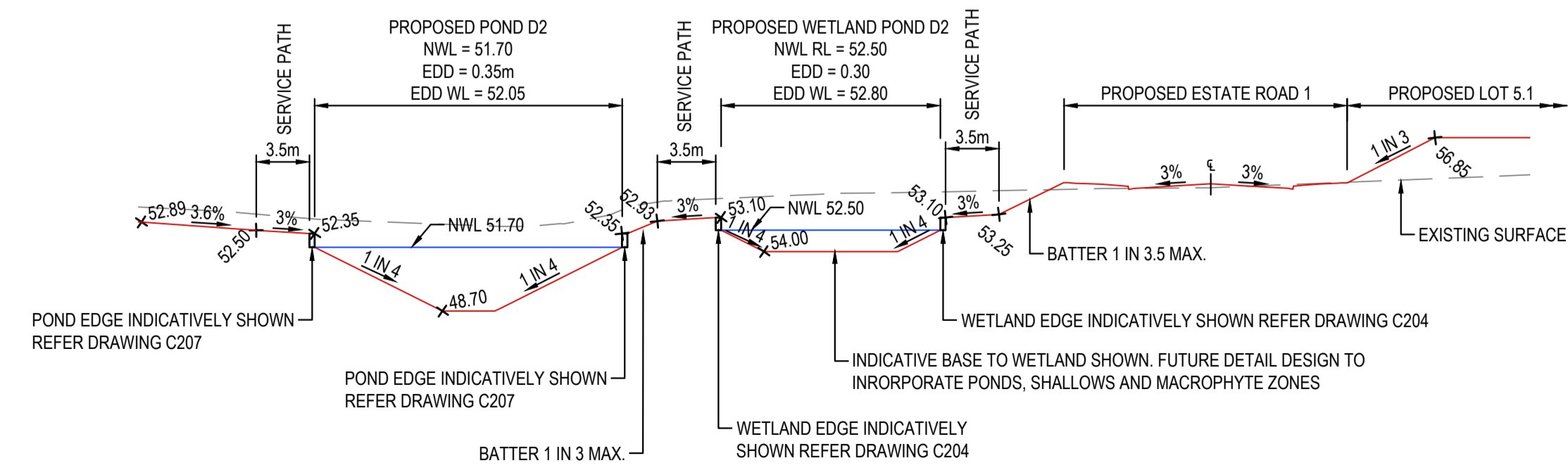
ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659		Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hhooms.com.au Web: www.henryandhymas.com.au		Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: BASIN D.2 PLAN AND LONG SECTION		Drawn: J.Garnham Checked: N.Wetzlar Drawing number: 240518_DA_C224		Designed: N.Wetzlar Approved: A.Francis Original issue date: 45413 Scale @A1: 1:250 Revision: 02	
REVISION	AMENDMENT	DATE	DESIGNED	DRAWN	DATE	DATE	DATE	DATE	DATE	DATE	
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	06.06.2025	JG	NW	06.06.2025						
01	ISSUED FOR DRAFT	30.05.25	MP	NW	30.05.25						

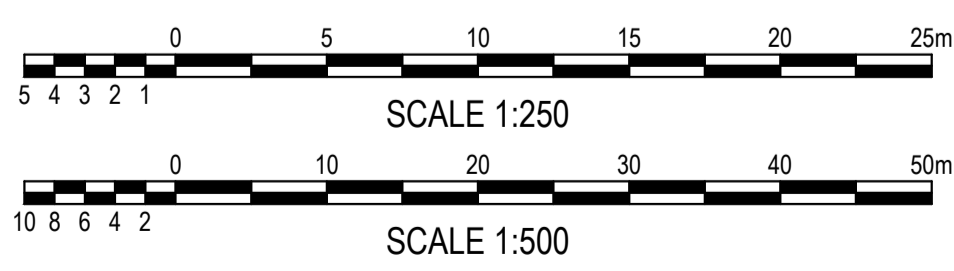
Basin D.2	
(A) Bioretention Surface Level m(AHD)	52.55
(B) Wetland NWL m(AHD)	52.50
(C) Storage Pond NWL m(AHD)	51.70
(D) Bioretention EDD Level m(AHD)	52.85
(E) Wetland EDD Level m(AHD)	52.80
(F) Storage Pond EDD Level m(AHD)	52.05
(G) Sediment Pond NWL m(AHD)	52.50
Basin modelling allocation (ha) Refer C251	
(I) Bioretention Filter Surface Area (m ²)	657.28
(J) Wetland Plan Area (m ²)	1051.65
(K) Pond Plan Area (m ²)	3286.40
(L) Pond Volume (m ³)	9859.20
(M) Sediment Basin Surface Area (m ²)	262.91
Residual Allocation Area (m ²)	10646.76
4EY Flow (m ³ /s)	
Basin Services Pad Stages	1.00
Constructed in Pad Stage	1.00
Catchment Area ha.	
	13.15
Bioretention Filter Surface Area (m ²) % Catch	
	0.50
Wetland Plan Area (m ²) % Catch	
	0.80
Pond Plan Area (m ²) % Catch	
	2.50
Sediment Basins Area (m ²) % Catch	
	0.20



DETAIL PLAN
SCALE 1:500

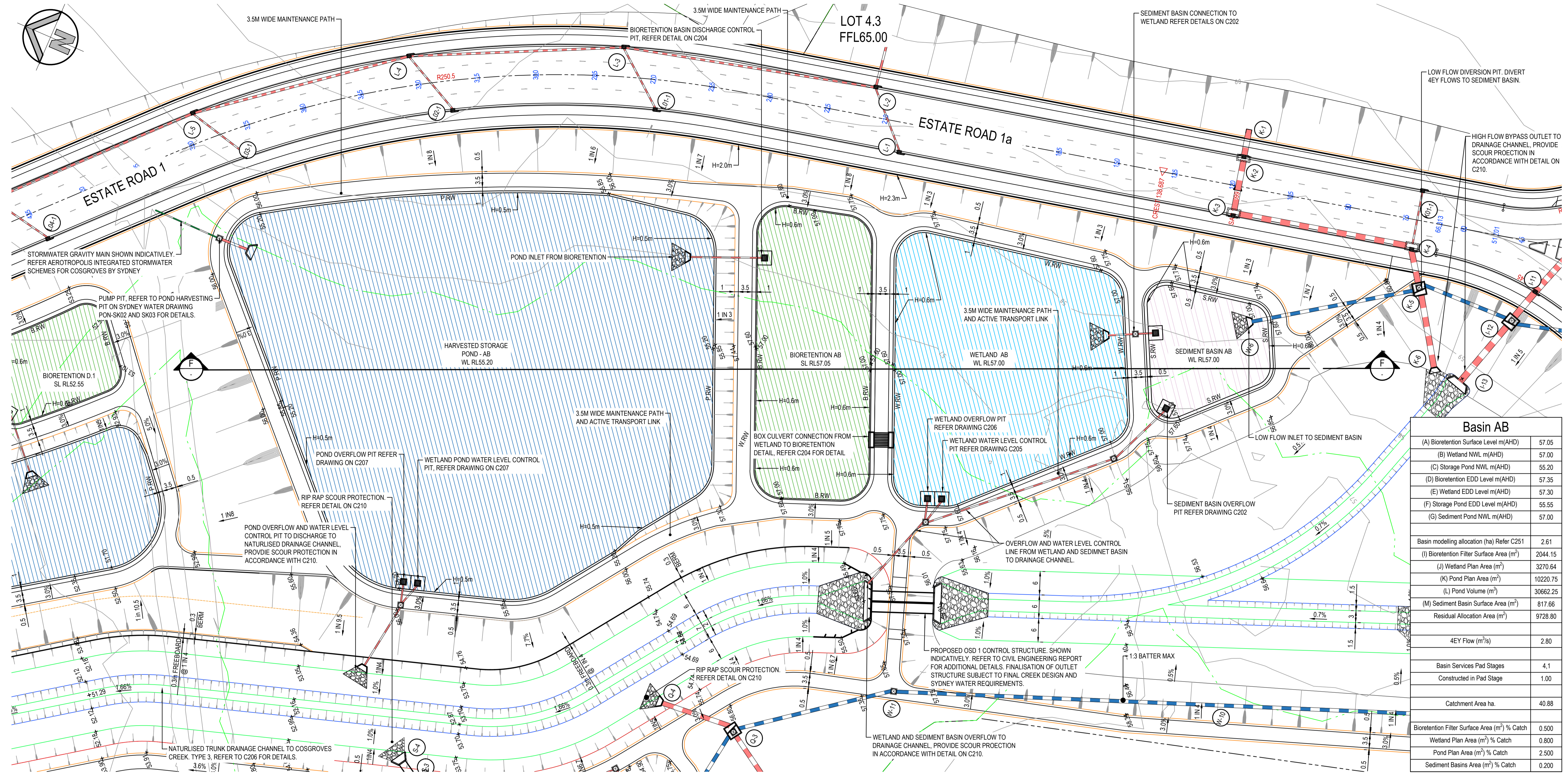


E SECTION
SCALE 1:500 HOR
1:250 VERT



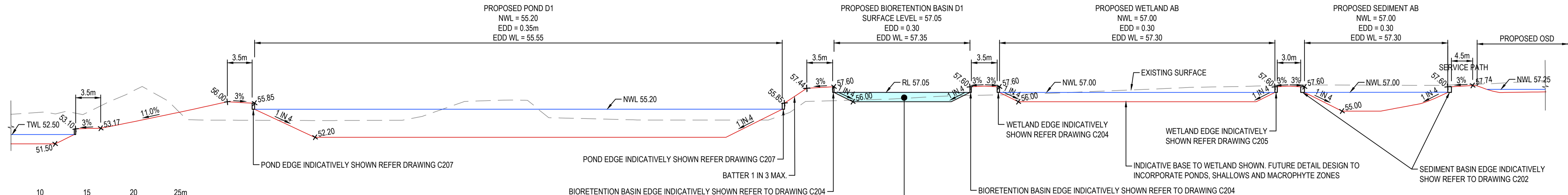
ISSUED FOR SSDA

SURVEY INFORMATION				CLIENT				DRAWING INFORMATION				PROJECT			
SURVEYED BY: LTSL				Client HB&B Property Pty and ISPT Pty Ltd				Suite 2.01 828 Pacific Highway Gordon NSW 2072				Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW			
DATUM: AHD				Architect / Surveyor NETTLETONTRIBE				Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hoomsult.com.au Web www.henryandhymas.com.au				Title BASIN D.2 PLAN AND LONG SECTION			
ORIGIN OF LEVELS: PM25501, RL59.659				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				DRAWING TO BE PRINTED IN COLOUR				Drawing number 240518_DA_C225			
REVISION				Client				henry&hymas				Original issue date 45413			
02 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				Client				Checked N.Wetzlar				Scale @A1 1:250			
01 ISSUED FOR DRAFT				Client				Approved A.Francis				Revision 02			
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	Client	Client	Client	Client		



Basin AB		
(A) Bioretention Surface Level m(AHD)	57.05	
(B) Wetland NWL m(AHD)	57.00	
(C) Storage Pond NWL m(AHD)	55.20	
(D) Bioretention EDD Level m(AHD)	57.35	
(E) Wetland EDD Level m(AHD)	57.30	
(F) Storage Pond EDD Level m(AHD)	55.55	
(G) Sediment Pond NWL m(AHD)	57.00	
Basin modelling allocation (ha) Refer C251		2.61
(I) Bioretention Filter Surface Area (m ²)	2044.15	
(J) Wetland Plan Area (m ²)	3270.64	
(K) Pond Plan Area (m ²)	10220.75	
(L) Pond Volume (m ³)	30662.25	
(M) Sediment Basin Surface Area (m ²)	817.66	
Residual Allocation Area (m ²)	9728.80	
4EY Flow (m ³ /s)	2.80	
Basin Services Pad Stages	4.1	
Constructed in Pad Stage	1.00	
Catchment Area ha.	40.88	
Bioretention Filter Surface Area (m ²) % Catch	0.500	
Wetland Plan Area (m ²) % Catch	0.800	
Pond Plan Area (m ²) % Catch	2.500	
Sediment Basins Area (m ²) % Catch	0.200	

DETAIL PLAN
V 13564 @ A:600



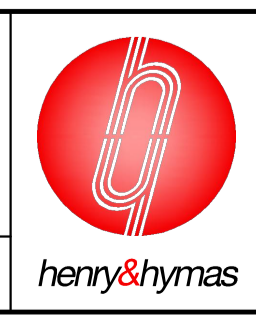
SECTION
SCALE 1:500 HOR
1:250 VERT

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PM25501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.08.2025
01	ISSUED FOR DRAFT	MP	NW	30.05.25

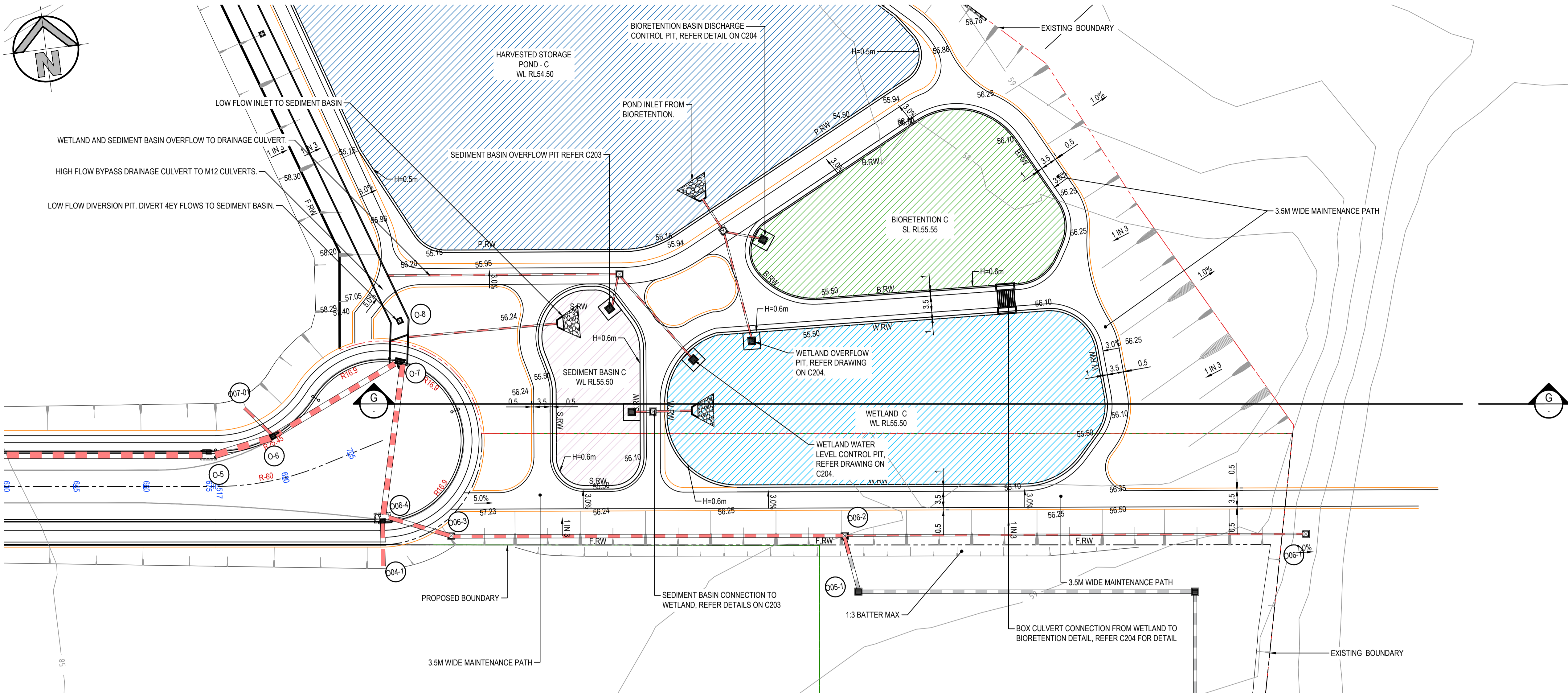
Client: **HB&B Property Pty and ISPT Pty Ltd**
 Architect / Surveyor: **NETTLETONTRIBE**
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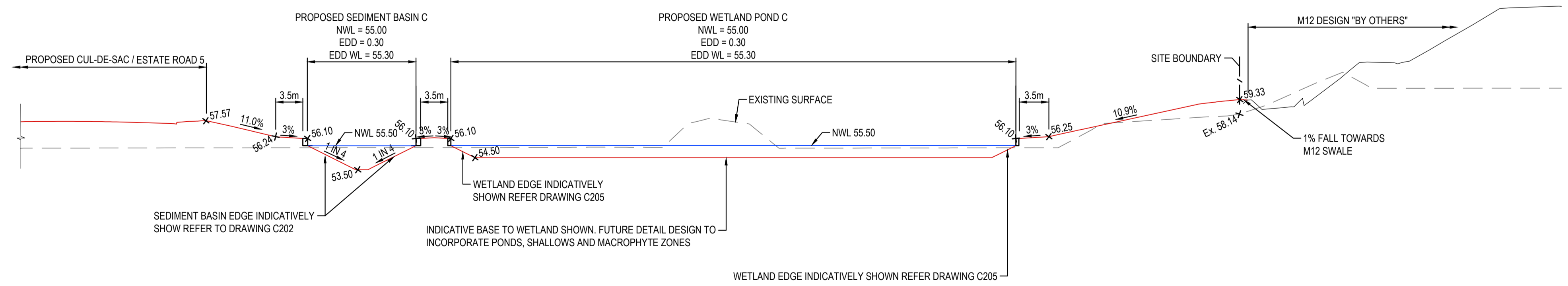


Project: **BURRAH PARK**
ELIZABETH DRIVE, BADGERYS CREEK, NSW
 Title: **BASIN AB PLAN AND LONG SECTION**

Drawn: J.Garnham	Designed: N.Wetzlar	Original issue date: 45413
Checked: N.Wetzlar	Approved: A.Francis	Scale @A1: 1:250
Drawing number: 240518_DA_C226	Revision: 02	

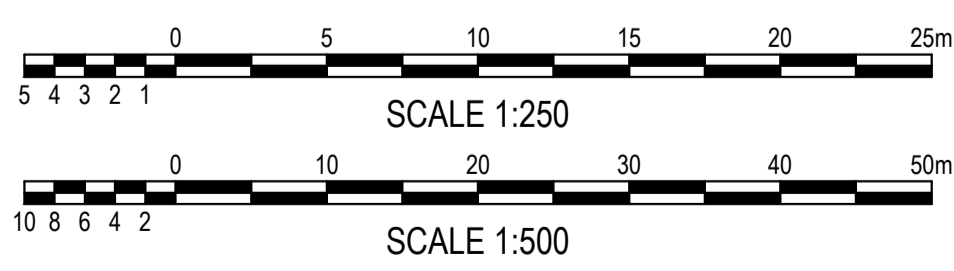


DETAIL PLAN
SCALE 1:500



G SECTION
SCALE 1:500 HOR
1:250 VERT

Basin C	
(A) Bioretention Surface Level m(AHD)	55.05
(B) Wetland NWL m(AHD)	55.00
(C) Storage Pond NWL m(AHD)	54.50
(D) Bioretention EDD Level m(AHD)	55.35
(E) Wetland EDD Level m(AHD)	55.30
(F) Storage Pond EDD Level m(AHD)	54.85
(G) Sediment Pond NWL m(AHD)	55.00
Basin modelling allocation (ha) Refer C251	
(I) Bioretention Filter Surface Area (m ²)	1736.70
(J) Wetland Plan Area (m ²)	2778.71
(K) Pond Plan Area (m ²)	8683.48
(L) Pond Volume (m ³)	26050.43
(M) Sediment Basin Surface Area (m ²)	694.68
Residual Allocation Area (m ²)	12188.44
4EY Flow (m ³ /s)	2.50
4EY Flow (m ³ /s) w/ detention	0.423
Basin Services Pad Stages	1.5
Constructed in Pad Stage	1.00
Catchment Area ha.	34.73
Bioretention Filter Surface Area (m ²) % Catch	0.50
Wetland Plan Area (m ²) % Catch	0.80
Pond Plan Area (m ²) % Catch	2.50
Sediment Basins Area (m ²) % Catch	0.20

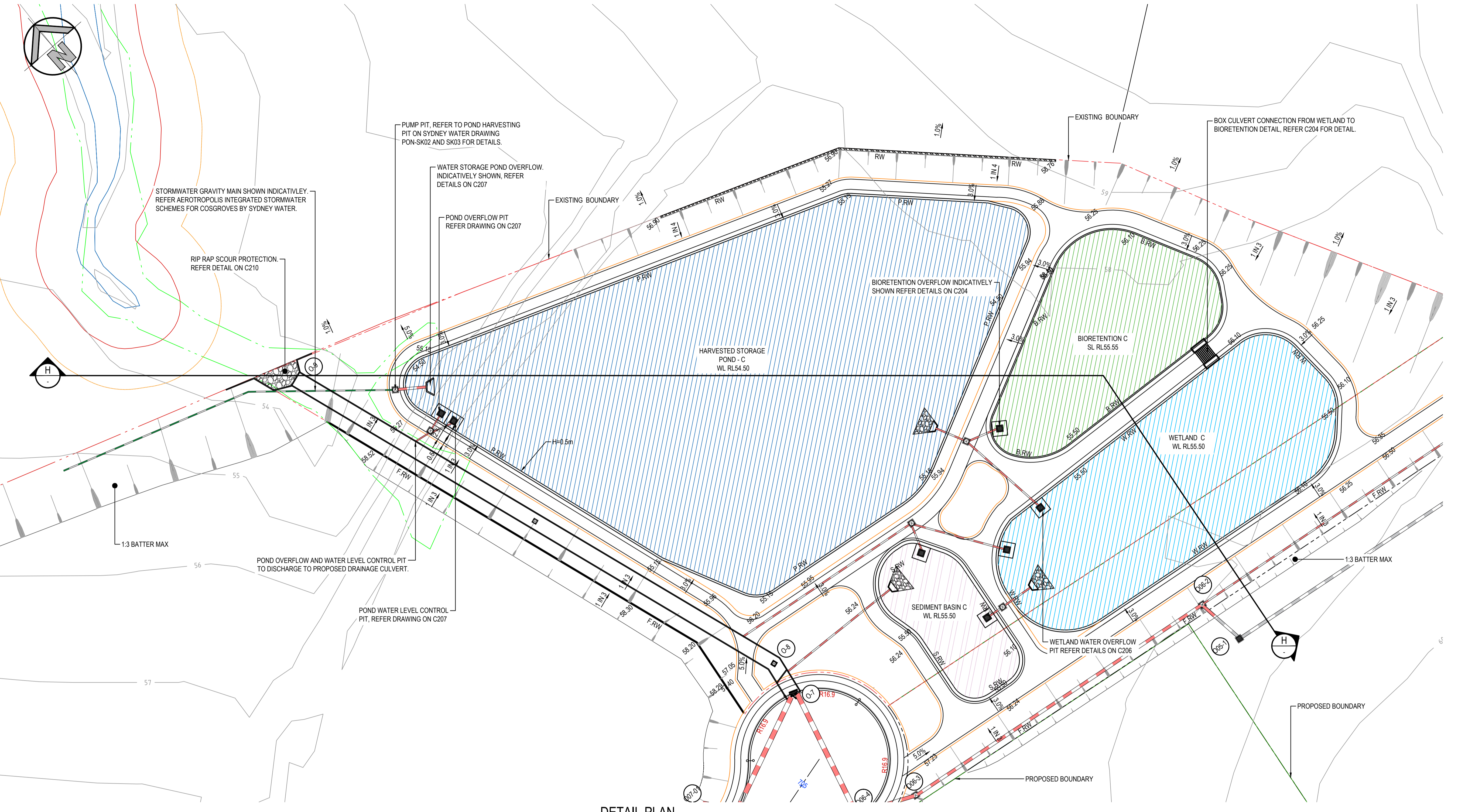


ISSUED FOR SSDA

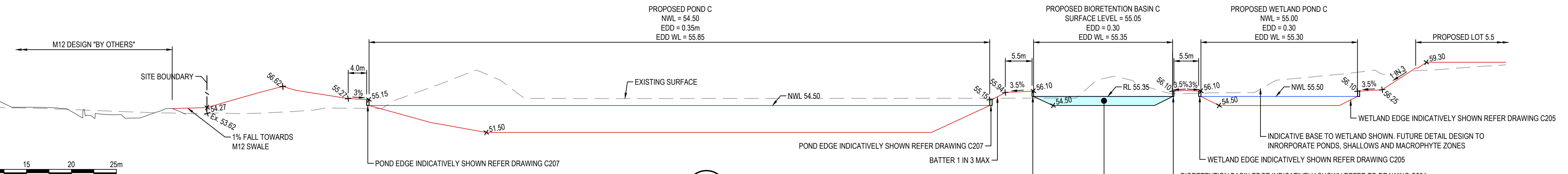
SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hhconsult.com.au Web: www.henryandhymas.com.au		Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: BASIN C PLAN AND LONG SECTION		Drawn: J.Garnham Checked: N.Wetzlar Drawing number: 240518_DA_C227		Designed: N.Wetzlar Approved: A.Francis Original issue date: 45413 Scale @A1: 1:250 Revision: 02	
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.08.2025											
01	ISSUED FOR DRAFT	MP	NW	30.05.25											

P:\PM25501_240518\240518\240518\DA_C227\227.DWG: 240518 DA_C227(01) DATE PRINTED: 09/08/25 13:40 PM

Basin C	
(A) Bioretention Surface Level m(AHD)	55.05
(B) Wetland NWL m(AHD)	55.00
(C) Storage Pond NWL m(AHD)	54.50
(D) Bioretention EDD Level m(AHD)	55.35
(E) Wetland EDD Level m(AHD)	55.30
(F) Storage Pond EDD Level m(AHD)	54.85
(G) Sediment Pond NWL m(AHD)	55.00
Basin modelling allocation (ha) Refer C251	
(I) Bioretention Filter Surface Area (m ²)	1736.70
(J) Wetland Plan Area (m ²)	2778.71
(K) Pond Plan Area (m ²)	8683.48
(L) Pond Volume (m ³)	26050.43
(M) Sediment Basin Surface Area (m ²)	694.68
Residual Allocation Area (m ²)	12188.44
4EY Flow (m ³ /s)	
4EY Flow (m ³ /s) w/ detention	2.50
Basin Services Pad Stages	0.423
Constructed in Pad Stage	1.5
Catchment Area ha.	1.00
Bioretention Filter Surface Area (m ²) % Catch	
Wetland Plan Area (m ²) % Catch	0.50
Pond Plan Area (m ²) % Catch	0.80
Sediment Basins Area (m ²) % Catch	2.50
	0.20



DETAIL PLAN
SCALE 1:500



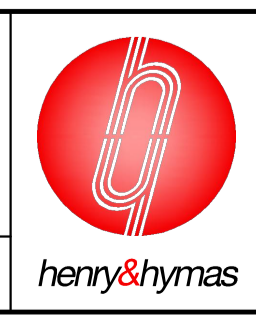
H SECTION
SCALE 1:500 HOR
1:250 VERT

ISSUED FOR SSDA

SURVEY INFORMATION	
SURVEYED BY: LTSL	
DATUM: AHD	
ORIGIN OF LEVELS: PM25501, RL59.659	
REVISION	AMENDMENT
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)
01	ISSUED FOR DRAFT
DRAWN	DESIGNED
DATE	REVISION
AMENDMENT	AMENDMENT
DRAWN	DESIGNED
DATE	DATE

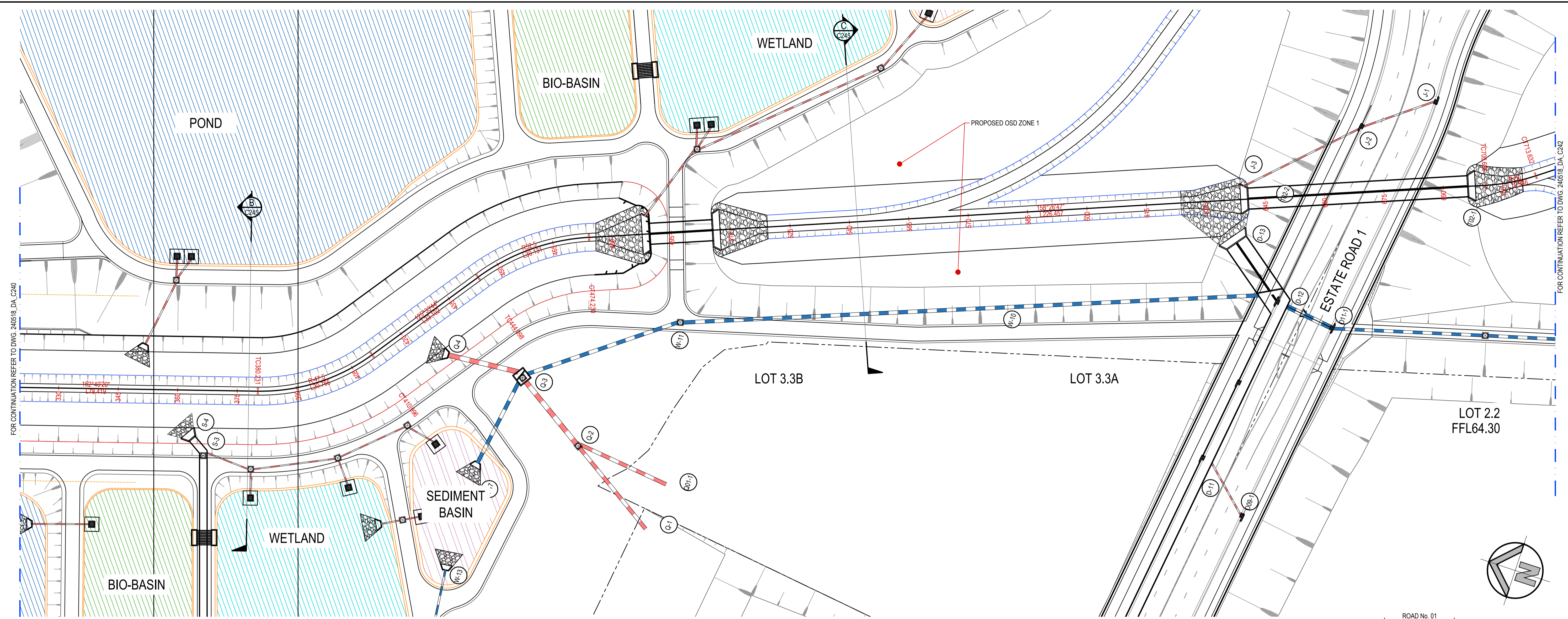
Client
HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor
NETTLETONTRIBE
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title
BASIN C PLAN AND LONG SECTION

Drawn J.Garnham	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS SHOWN
Drawing number 240518_DA_C228		Revision 02



CHANNEL TYPE 3. REFER TO DIMENSIONS ON C208. CHANNEL TYPE 2. REFER TO DIMENSIONS ON C208.

FOR CONTINUATION REFER TO DWG. 240518_DA_C240 FOR CONTINUATION REFER TO DWG. 240518_DA_C242

FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CUT / FILL DEPTH	CONTROL LINE CHAINAGE
52.32	53.52	-1.20	345
52.50	53.56	-0.96	360
52.829	53.571	-0.742	375
52.916	53.572	-0.656	380.231
53.078	53.576	-0.497	390
53.327	53.580	-0.254	405
53.426	53.582	-0.156	410.996
53.576	53.583	-0.008	420
53.825	53.575	0.250	435
53.975	53.556	0.420	444.098
54.073	53.555	0.518	450
54.322	53.576	0.746	465
54.475	53.588	0.887	474.23
54.571	53.590	0.981	480
54.660	53.588	1.072	485.367
54.660	53.586	1.074	487.349
54.809	53.578	1.231	495
55.010	53.568	1.442	505.344
55.010	53.570	1.440	507.326
55.029	53.569	1.460	510
55.13	53.512	1.621	525
55.237	54.317	0.920	540
55.341	56.634	-1.293	555
55.445	56.618	-1.473	570
55.549	55.660	-0.111	585
55.653	56.177	-0.524	600
55.757	56.564	-0.806	615
55.861	56.611	-0.749	630
55.950	56.648	-0.698	642.792
55.950	56.721	-0.771	644.774
55.955	56.733	-0.779	645
56.255	57.460	-1.206	660
56.555	57.559	-1.004	675
56.855	57.649	-0.794	690

VERTICAL CURVE DATA:
 VERTICAL CURVE LENGTH (m): R-47.5, R-52.5
 VERTICAL GEOMETRY GRADE (%): 1.7%, 0%, 1.9%, 0%, 0.7%, 2%
 VERTICAL GEOMETRY LENGTH (m): 237.53, 1.98, 17.99, 1.98, 135.47, 51.34
 DATUM RL = 47.800

CENTER LINE OF PROPOSED CREEK LONGITUDINAL SECTION - CONTINUATION
 HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSDA

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
06	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
05	ISSUED FOR DRAFT	JG	NW	30.05.25					
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024					
02	ISSUED FOR CONCEPT	MP	NW	16.08.2024					
01	ISSUED FOR CONCEPT	MP	NW	25.07.24					

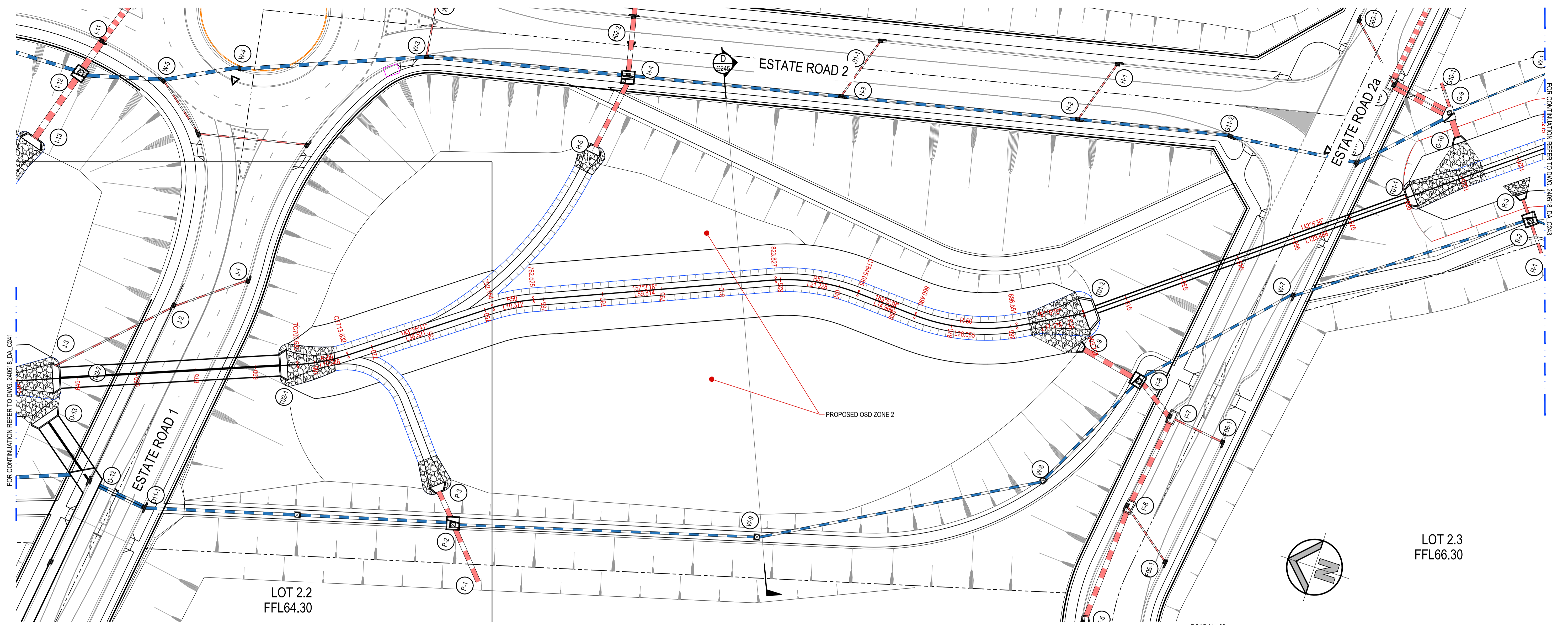
Client: **HB&B Property Pty and ISPT Pty Ltd**
 Architect / Surveyor: **NETTLETONTRIBE**
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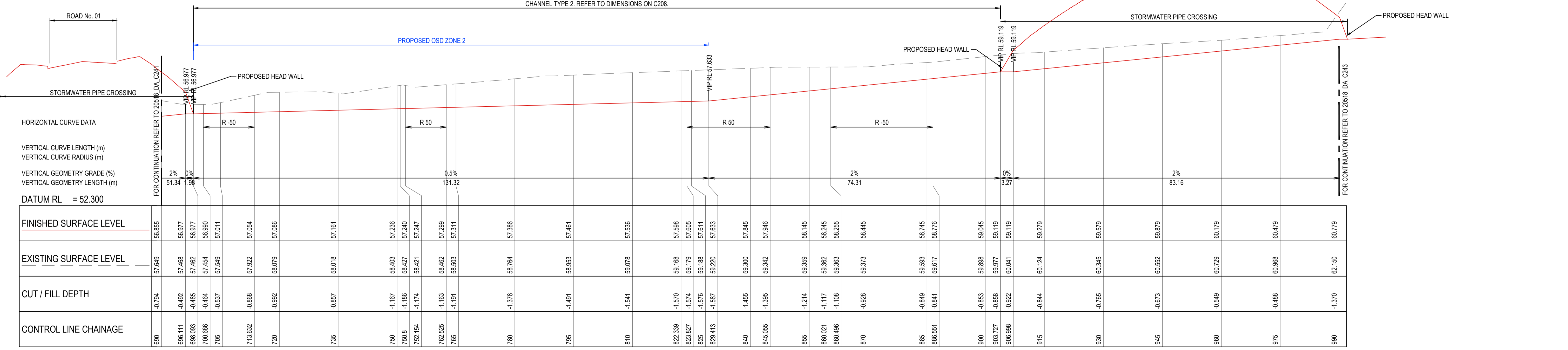


Project: **BURRAH PARK**
 ELIZABETH DRIVE, BADGERYS CREEK, NSW
 Title: **PROPOSED CREEK PLAN AND LONGITUDINAL SECTION, SHEET 2 OF 4**

Drawn	Designed	Original Issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale (A1)
N.Wetzlar	A.Francis	AS SHOWN
Drawing number	Revision	
240518_DA_C241	06	



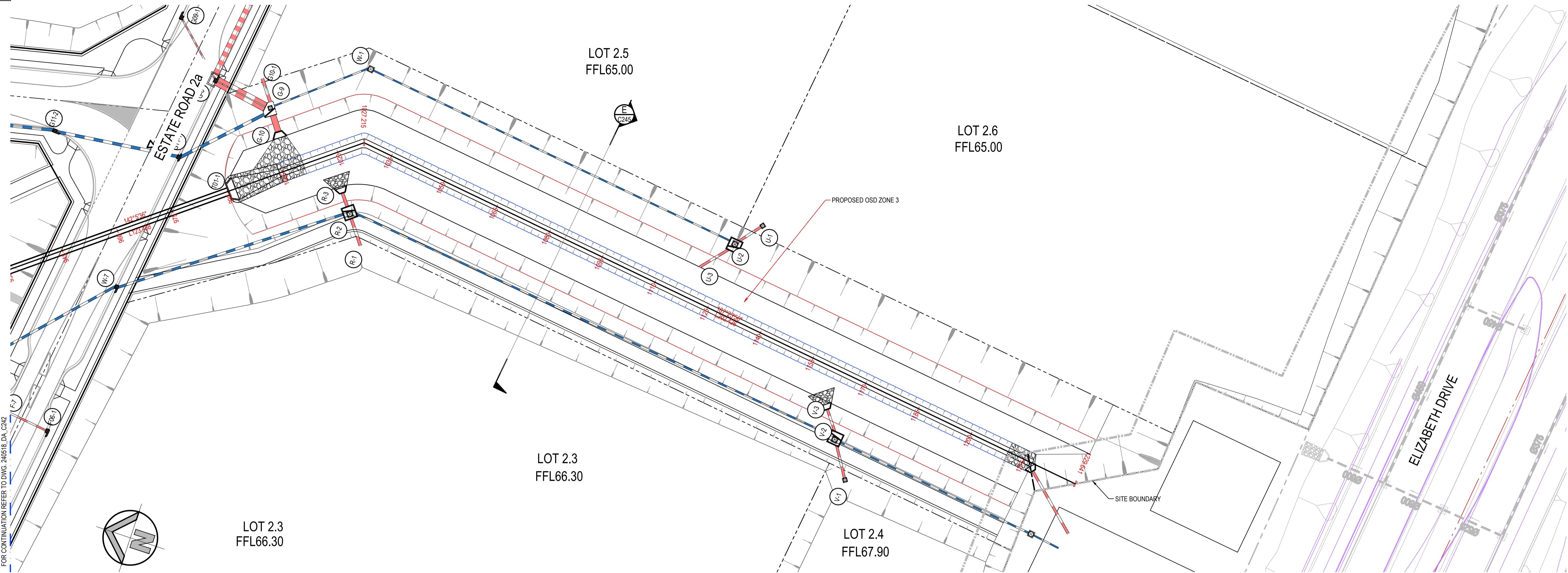
PROPOSED CREEK PLAN
SCALE 1:500



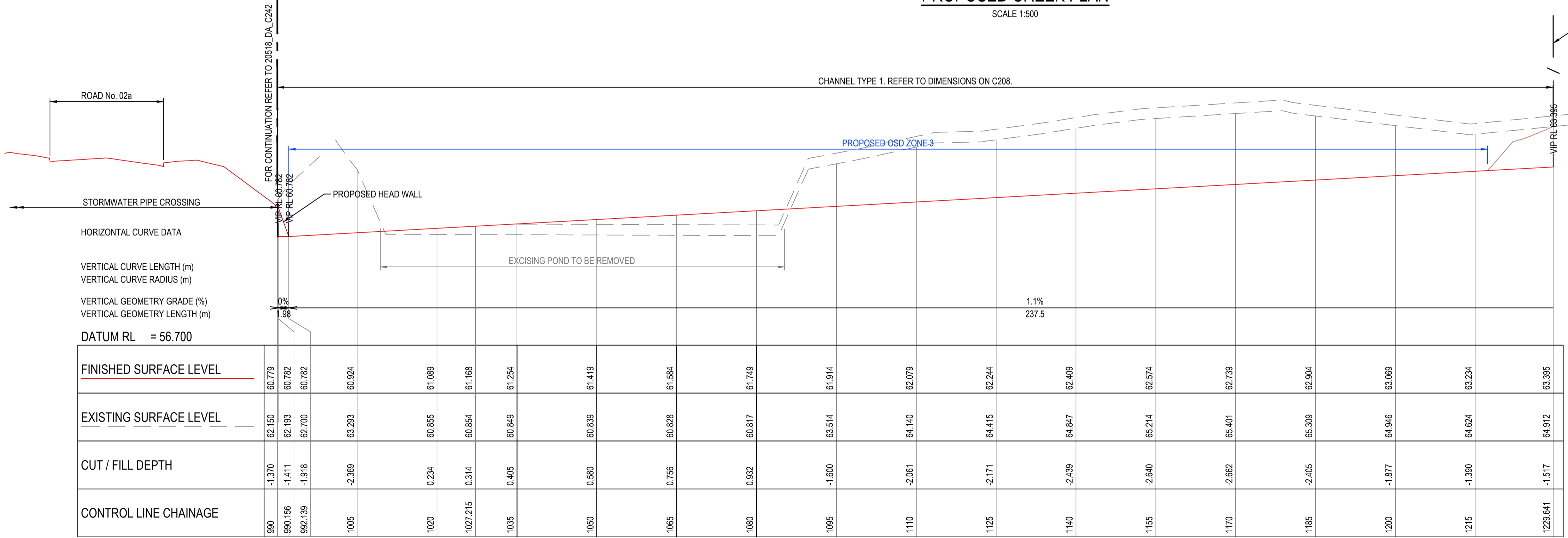
CENTER LINE OF PROPOSED CREEK LONGITUDINAL SECTION - CONTINUATION
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSSA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659		Client: HB&B Property Pty and ISPT Pty Ltd Archibald / Surveyor: NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hnyandh.com.au Web: www.henyandhymas.com.au		Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: PROPOSED CREEK PLAN AND LONGITUDINAL SECTION, SHEET 3 OF 4		Drawn: L.Caha Checked: N.Wetzlar Drawing number: 240518_DA_C242		Designed: N.Wetzlar Approved: A.Francis Scale: @A1 AS SHOWN Revision: 06	
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PROPOSED CREEK PLAN
SCALE 1:500

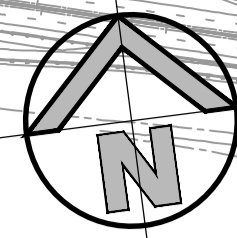


CENTER LINE OF PROPOSED CREEK LONGITUDINAL SECTION - CONTINUATION
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

ISSUED FOR SSSA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PMZ5501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE Suite 2.01, 828 Pacific Highway, Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hnsconsult.com.au Web: www.henryandhymas.com.au				Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: PROPOSED CREEK PLAN AND LONGITUDINAL SECTION, SHEET 4 OF 4				Drawn: L.Caha Checked: N.Wetzlar Drawing number: 240518_DA_C243		Designed: N.Wetzlar Approved: A.Francis Original issue date: 45413 Scale: @A1 AS SHOWN Revision: 06	
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LEGEND

- PROPOSED BOUNDARY
- EXISTING SITE BOUNDARY
- PROPOSED ROAD BOUNDARY
- PROPOSED LOT BOUNDARY
- ENZ BOUNDARY (INDICATIVE)
- FLOOD EXTENT 1% AEP
- COSGROVES CREEK

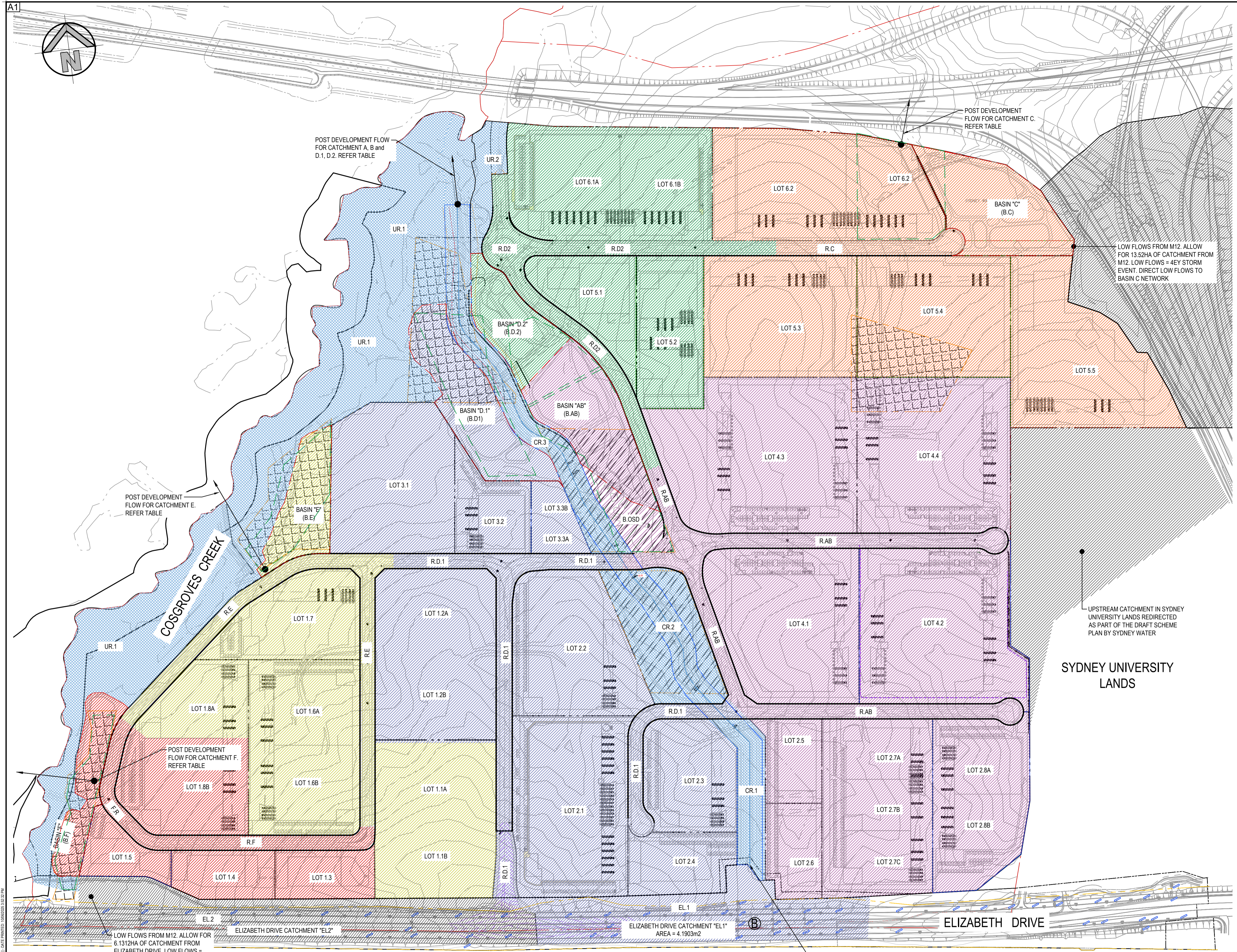
- SYDNEY WATER REGIONAL COMBINED WSUD WETLANDS AND INDICATIVE DETENTION ZONE ALLOCATION (INITIAL PRECINCTS)
- SYDNEY WATER REGIONAL WSUD WETLAND ALLOCATION (INITIAL PRECINCTS)

- BASIN ALLOCATIONS UNDER AEROTROPOLIS DRAFT INTEGRATED STORMWATER SCHEMES
- PROPOSED AMENDED BASIN ALLOCATIONS FOLLOWING CONSOLIDATION DURING EXHIBITION PERIOD

- IMPORTANT NOTE:**
1. REFER C252 FOR DETAILED CATCHMENT SUMMARY
 2. REFER C250 FOR PREDEVELOPED CATCHMENT - SYDNEY WATER
 3. REFER C290 FOR PREDEVELOPED CATCHMENTS - ONSITE STORMWATER DETENTION
 4. REFER C295 FOR IRRIGATION PLAN

CATCHMENT TYPES

- CATCHMENT AB, REFER C252
- CATCHMENT C, REFER C252
- CATCHMENT D.1, REFER C252
- CATCHMENT D.2, REFER C252
- CATCHMENT E, REFER C252
- CATCHMENT F, REFER C252
- RESIDUAL AREAS AND CENTRAL TRUNK DRAINAGE CHANNEL, REFER C252



**MASTER PLAN
POST-DEVELOPMENT CATCHMENT**
SCALE 1:3000

ISSUED FOR SSDA

SURVEY INFORMATION

SURVEYED BY:
LTSL

DATUM: AHD

ORIGIN OF LEVELS:
PMZ5501, RL59.659

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
06	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
05	ISSUED FOR DRAFT	JG	NW	30.05.25					
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	31.10.2024					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024					
02	ISSUED FOR CONCEPT	LC	NW	16.08.2024					
01	ISSUED FOR CONCEPT	LC	NW	25.07.24					

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
NETTLETONTRIBE

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Project
**BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW**

Title
**MASTER PLAN POST-DEVELOPMENT
CATCHMENT PLAN**

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:3000
Drawing number 240518_DA_C251	Revision 06	

P:\Data\240518\240518_MASTER PLAN POST-DEVELOPMENT CATCHMENT PLAN.dwg - 25/07/24 10:52:15 AM



Lot #	Lot Area (Ha)	Basin #	Typical Catchment Breakdown			Detention Strategy	Water Quality	Gross Pollutant Trap	On-Lot OSD Estimate (m3/ha)	Internal Reuse	Rainwater Tank Size (m3)
			Roof Area (m2)	Hardstand (m2)	Landscaping (m2)						
1.2	5.3189	Basin D.1	31913.4	13297.25	7978.35	Communal	Communal	On-Lot	Refer D1_C105-C108	Subdivision Recycled Water Main	0
2.1	5.2884	Basin D.1	31730.4	13221	7932.6	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
2.2	4.2382	Basin D.1	25429.2	10595.5	6357.3	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
2.3	2.5158	Basin D.1	15094.8	6289.5	3773.7	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
2.4	1.6223	Basin D.1	9733.8	4055.75	2433.45	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
2.5	1.24	Basin AB	7440	3100	1860	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
2.6	1.3233	Basin AB	7939.8	3308.25	1984.95	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
2.7	4.9766	Basin AB	29859.6	12441.5	7464.9	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
2.8	3.8756	Basin AB	23253.6	9689	5813.4	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
3.2	1.599	Basin D.1	9594	3997.5	2398.5	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
3.3	0.8254	Basin D.1	4952.4	2063.5	1238.1	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
4.1	5.4273	Basin AB	32563.8	13568.25	8140.95	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
4.2	6.1825	Basin AB	37095	15456.25	9273.75	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
4.3	7.3095	Basin AB	43857	18273.75	10964.25	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
4.4	6.0463	Basin AB	36277.8	15115.75	9069.45	Communal	Communal	On-Lot	0*	Subdivision Recycled Water Main	0
RAB	3.7773	Basin AB	na.	31729.32	6043.68	Communal	Communal	na.	na.	Passive Irrigation	na.
B.AB	2.6082	Basin AB	na.	972.88	25109.12	Communal	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
B.OSD	0.7246	Basin AB	na.	0	7246	Communal	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
5.3	4.7161	Basin C	28296.6	11790.25	7074.15	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
5.4	4.7261	Basin C	28356.6	11815.25	7089.15	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
5.5	5.0331	Basin C	30198.6	12582.75	7549.65	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
5.6	1.93	Basin C	11593.2	4830.5	2898.3	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
6.2	4.0283	Basin C	24169.8	10070.75	6042.45	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
C.R	0.7781	Basin C	na.	6613.85	1167.15	na. Compensated on-lot	Communal	na.	na.	Passive Irrigation	na.
C.B	2.6082	Basin C	na.	1218.844	24863.156	na. Compensated on-lot	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
3.1	4.5396	Basin D.1	27237.6	11349	6809.4	On-Lot	Communal	On-Lot	Refer D1_C109-C112	Subdivision Recycled Water Main	0
B.D1	2.5691	Basin D.1	na.	1232.5	24458.5	Communal	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
R.D1	3.2771	Basin D.1	na.	27527.64	5243.36	Communal	Communal	na.	na.	Passive Irrigation	na.
5.1	2.0356	Basin D.2	12213.6	5089	3053.4	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
5.2	2.623	Basin D.2	15738	6557.5	3934.5	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
6.1	5.8394	Basin D.2	35036.4	14598.5	8759.1	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
R.D2	2.6476	Basin D.2	na.	22504.6	3971.4	na. Compensated on-lot	Communal	na.	na.	Passive Irrigation	na.
B.D2	1.5905	Basin D.2	na.	1064.676	14840.324	na. Compensated on-lot	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
1.1	4.7497	Basin E	28498.2	11874.25	7124.55	On-Lot	Communal	On-Lot	Refer D1_C101-C104	Subdivision Recycled Water Main	0
1.6	4.9507	Basin E	29704.2	12376.75	7426.05	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
1.7	2.7123	Basin E	16273.8	6780.75	4068.45	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
1.8 NORTH	2.2492	Basin E	13495.2	5623	3373.8	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
R.E	2.2151	Basin E	na.	18828.35	3322.65	na. Compensated on-lot	Communal	na.	na.	Passive Irrigation	na.
B.E	1.5402	Basin E	na.	865.12	14536.88	na.	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
1.3	1.2337	Basin F	7402.2	3084.25	1850.55	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
1.4	1.2416	Basin F	7449.6	3104	1862.4	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
1.5	0.9942	Basin F	5965.2	2485.5	1491.3	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
1.8 SOUTH	2.5997	Basin F	15598.2	6499.25	3899.55	On-Lot	Communal	On-Lot	Refer Tables below for PSD	Subdivision Recycled Water Main	0
R.F	1.4246	Basin F	na.	12109.1	2136.9	na. Compensated on-lot	Communal	na.	na.	Passive Irrigation	na.
B.F	1.3049	Basin F	na.	759.9	12289.1	na.	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
UR1	14.5799	na.	0	7289.95	138509.05	na. refer C290	na.	na.	na.	Subdivision Recycled Water Main, refer C295	na.
UR2	0.7778	na.	0	388.9	7389.1	na. refer C290	na.	na.	na.	Subdivision Recycled Water Main, refer C295	na.
OR1	1.168	na.	0	584	11096	Communal	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
OR2	2.739	na.	0	1369.5	2620.5	Communal	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
OR3	3.2047	na.	0	1602.35	30444.65	Communal	Communal	na.	na.	Subdivision Recycled Water Main, refer C295	na.
EL1	4.1903	Basin D.1	0	25854.151	16048.849	Communal	Communal	na.	0*	na	na.
EL2	6.1312	Basin F	0	37829.504	23482.496	na. low flows only	Communal	na.	na. low flows only	na	na.
M12	13.52	Basin C	0	67600	67600	na. low flows only	Communal	na.	na. low flows only	na	na.

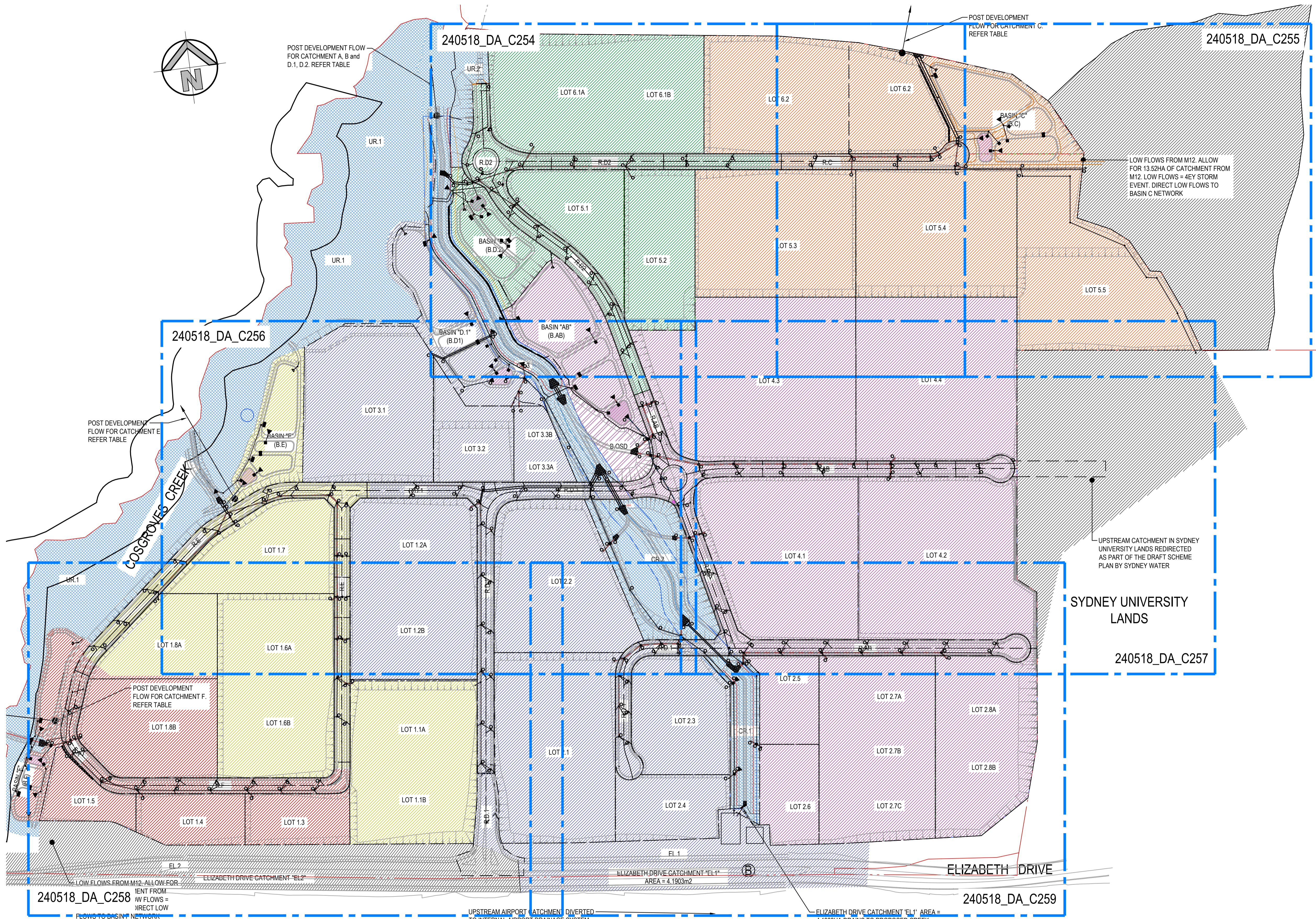
TABLE: WATER QUALITY, REUSE AND DETENTION - LOT SUMMARY

Lot No.	OSD Catchment	Basin System	PSD 20% AEP (m3/s)	PSD 5% AEP (m3/s)	PSD 1% AEP (m3/s)
1.1	E	E	0.241	0.396	0.617
1.3	F	F	0.087	0.137	0.207
1.4	F	F	0.086	0.135	0.204
1.5	F	F	0.073	0.115	0.174
1.6	E	E	0.239	0.394	0.612
1.7	E	E	0.183	0.301	0.461
1.8A	E	E	0.124	0.203	0.316
1.8B	F	F	0.146	0.23	0.349
3.1	ABD	D.1	0.266	0.438	0.679
3.2	ABD	D.1	0.121	0.2	0.306
3.3	ABD	D.1	0.068	0.111	0.17
5.1	ABD	D.2	0.123	0.203	0.314
5.2	ABD	D.2	0.158	0.259	0.401
5.3	C	C	0.364	0.594	0.903
5.4	C	C	0.413	0.666	1.02
5.5	C	C	0.343	0.555	0.855
6.1	ABD	D.2	0.315	0.517	0.801
6.2	C	C	0.504	0.821	1.242

TABLE: PSD SUMMARY FOR ON-LOT OSD LOTS

ISSUED FOR SSSA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PMZ5501, RL59.659	06 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) JG NW 06.06.2025 05 ISSUED FOR DRAFT JG NW 30.05.25 04 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) MS SY 31.10.2024 03 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) MS SY 15.10.2024 02 ISSUED FOR CONCEPT LC NW 16.08.2024 01 ISSUED FOR CONCEPT LC NW 25.07.24	Client HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.	Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoonsuit.com.au Web www.henryandhymas.com.au		Project BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW Title WATER QUALITY, REUSE AND DETENTION - LOT SUMMARY	Drawn L.Caha Checked N.Wetzlar	Designed N.Wetzlar Approved A.Francis	Original Issue Date 45413 Scale: B1 NTS	Drawing Number 240518_DA_C252	Revision 06
	REVISION AMENDMENT DRAWN DESIGNED DATE REVISION AMENDMENT DRAWN DESIGNED DATE	DRAWING TO BE PRINTED IN COLOUR								



LEGEND

- CATCHMENT LINE
- - - PROPOSED BOUNDARY
- EXISTING SITE BOUNDARY
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- LINE LETTER
- PIT NUMBER
- PROPOSED PIT TAG
- PROPOSED STORMWATER PIPE
- PROPOSED STORMWATER CULVERT

**STORMWATER DETAILED CATCHMENT
PLAN-GENERAL ARRANGEMENT PLAN**
SCALE: 1:3000

ISSUED FOR SSDA

SURVEY INFORMATION

SURVEYED BY:
L.TSL

DATUM: AHD

ORIGIN OF LEVELS:
PMZ5501, RL59.659

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024					
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024					

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Supervisor
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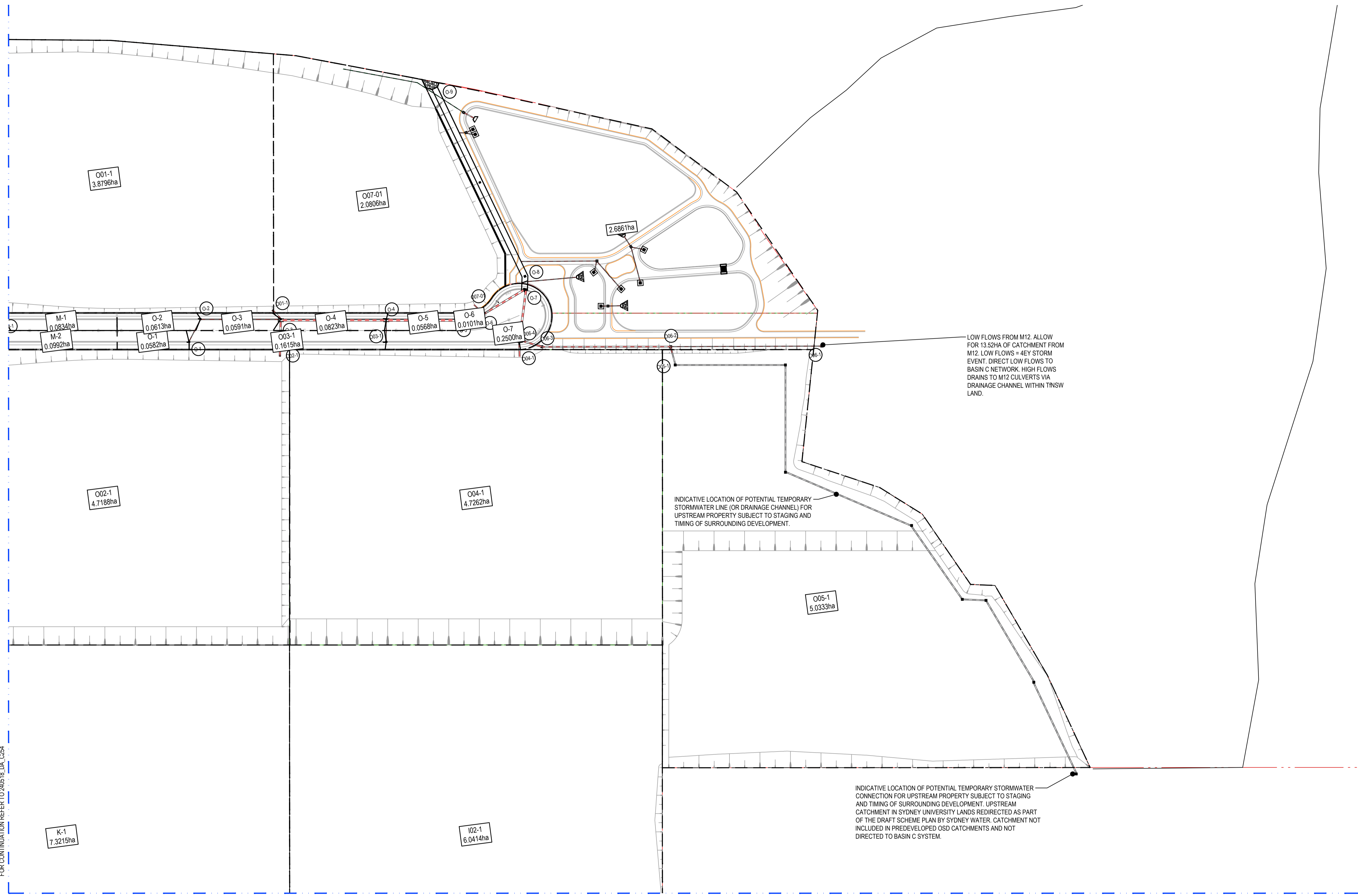
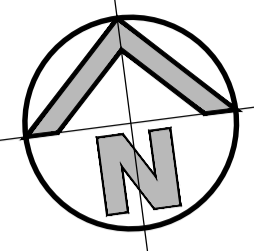
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
**STORMWATER DETAILED CATCHMENT
PLAN-GENERAL ARRANGEMENT PLAN**

Drawn	Designed	Original issue date
A.Fernandes	N.Wetzlar	45566
Checked	Approved	Scale
N.Wetzlar	A.Fernandes	1:3000
Drawing number	Revision	
240518_DA_C253	03	



LOW FLOWS FROM M12. ALLOW FOR 13.52HA OF CATCHMENT FROM M12. LOW FLOWS = 4EY STORM EVENT. DIRECT LOW FLOWS TO BASIN C NETWORK. HIGH FLOWS DRAIN TO M12 CULVERTS VIA DRAINAGE CHANNEL WITHIN TNSW LAND.

INDICATIVE LOCATION OF POTENTIAL TEMPORARY STORMWATER LINE (OR DRAINAGE CHANNEL) FOR UPSTREAM PROPERTY SUBJECT TO STAGING AND TIMING OF SURROUNDING DEVELOPMENT.

INDICATIVE LOCATION OF POTENTIAL TEMPORARY STORMWATER CONNECTION FOR UPSTREAM PROPERTY SUBJECT TO STAGING AND TIMING OF SURROUNDING DEVELOPMENT. UPSTREAM CATCHMENT IN SYDNEY UNIVERSITY LANDS REDIRECTED AS PART OF THE DRAFT SCHEME PLAN BY SYDNEY WATER. CATCHMENT NOT INCLUDED IN PREDEVELOPED OSD CATCHMENTS AND NOT DIRECTED TO BASIN C SYSTEM.

FOR CONTINUATION REFER TO 240518_DA_C254

FOR CONTINUATION REFER TO 240518_DA_C257

STORMWATER DETAILED CATCHMENT PLAN

SCALE: 1:1250



ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PM25501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024

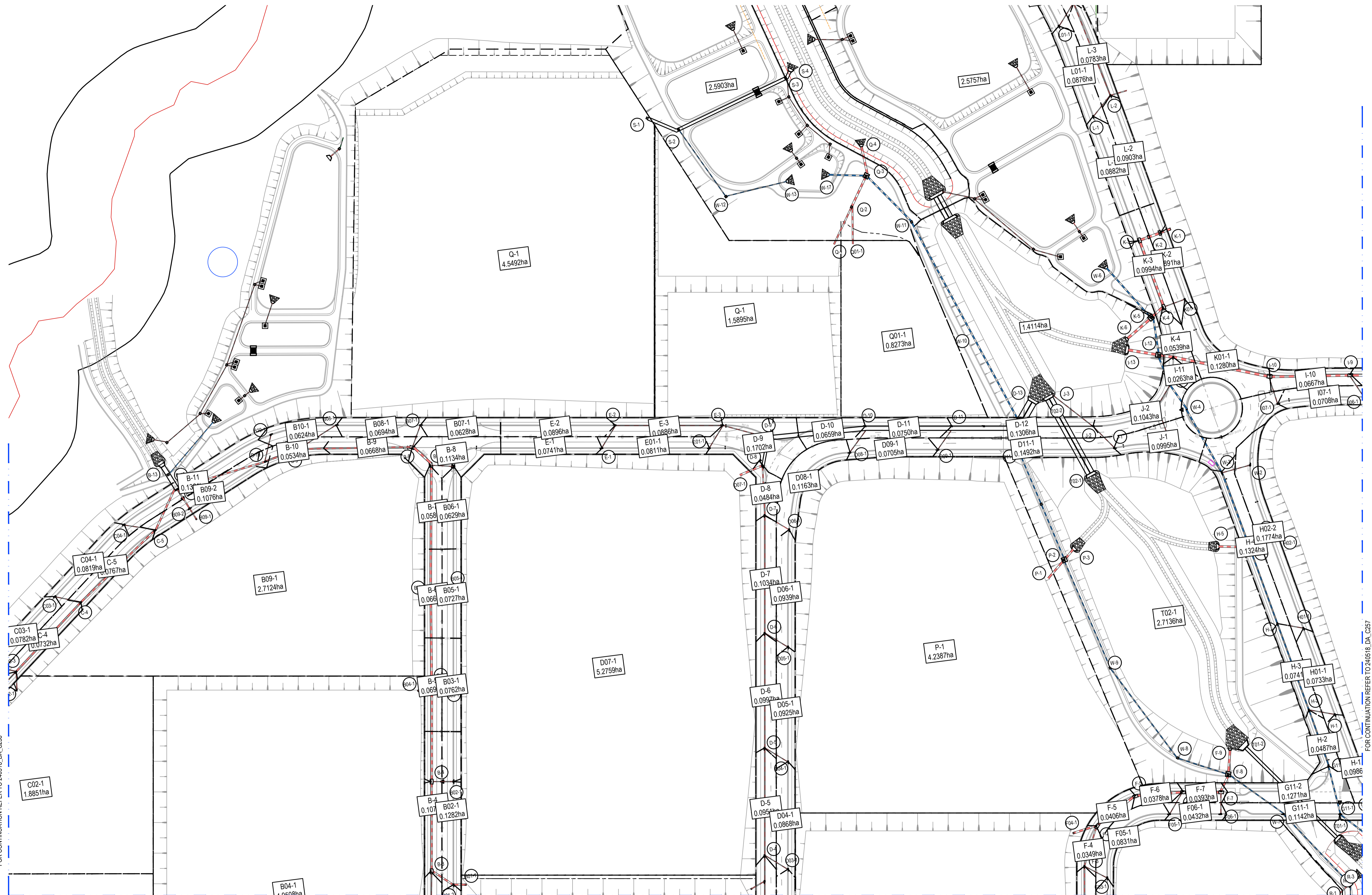
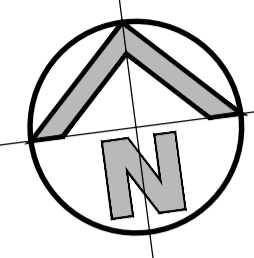
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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DRAWING TO BE PRINTED IN COLOUR	



Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Drawn	A.Fernandes
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Fernandes
Title	STORMWATER DETAILED CATCHMENT PLAN SHEET 2 OF 6

Original issue date	45566
Scale	1:1250
Drawing number	240518_DA_C255
Revision	03



FOR CONTINUATION REFER TO 240518_DA_C258

FOR CONTINUATION REFER TO 240518_DA_C258

FOR CONTINUATION REFER TO 240518_DA_C257

STORMWATER DETAILED CATCHMENT PLAN
SCALE: 1:1250



ISSUED FOR SSDA

SURVEY INFORMATION		Client		Architect / Surveyor		Title	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd		NETTLETONTRIBE		BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW	
DATUM: AHD	03 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025		Checked: N.Wetzlar	Designed: N.Wetzlar
ORIGIN OF LEVELS: PMZ5501, RL59.659	02 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024		Approved: A.Francis	Original issue date: 45566
REVISION	01 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024		Drawing number: 240518_DA_C256	Scale: B/A1 1:1250
						Revision: 03	

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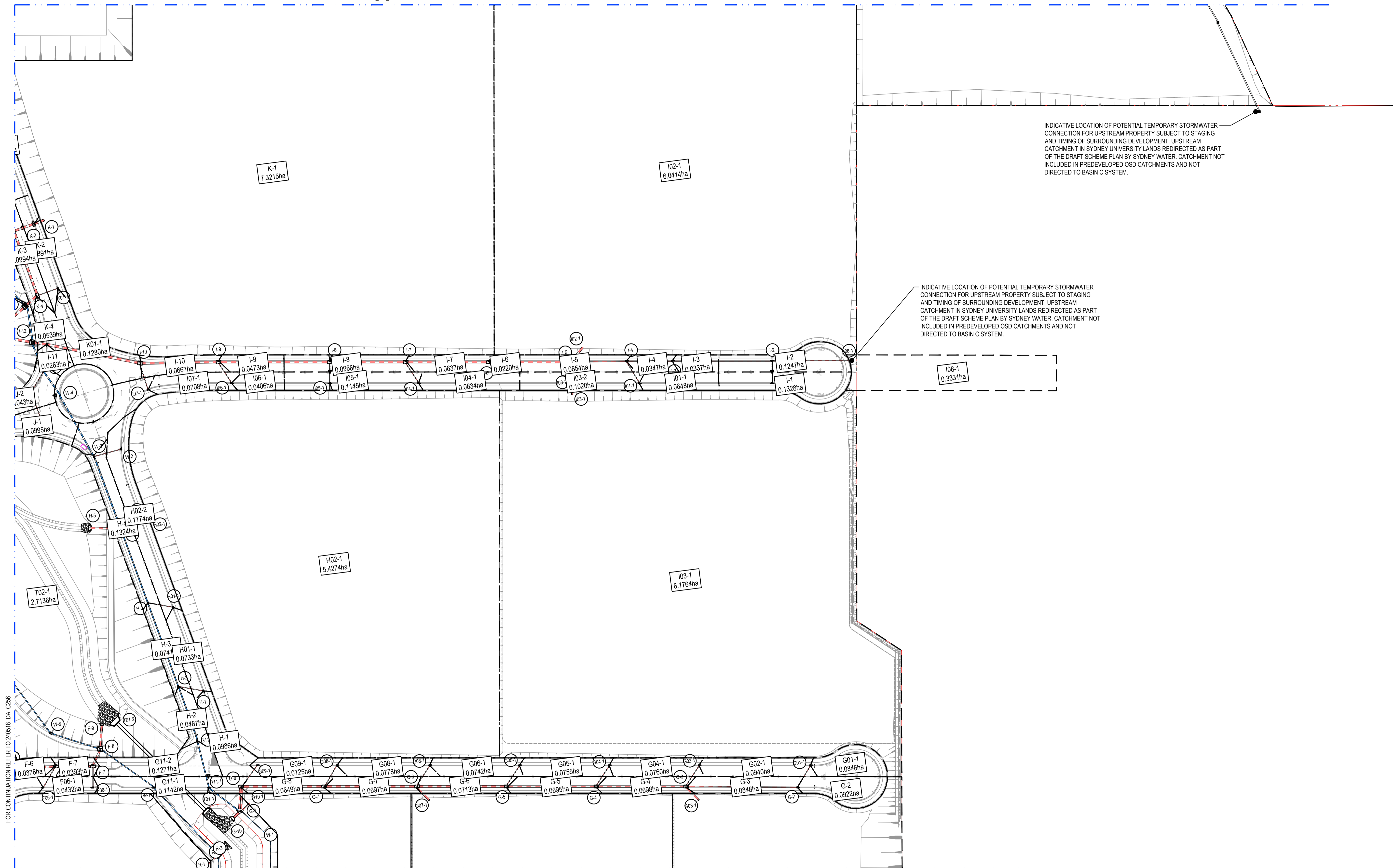
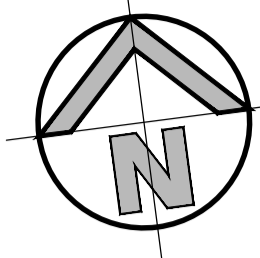
DRAWING TO BE PRINTED IN COLOUR



STORMWATER DETAILED CATCHMENT PLAN SHEET 3 OF 6

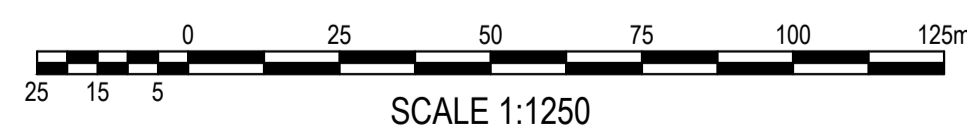
240518_DA_C256 03

FOR CONTINUATION REFER TO 240518_DA_C255



STORMWATER DETAILED CATCHMENT PLAN

SCALE: 1:1250



ISSUED FOR SSDA

SURVEY INFORMATION		SURVEYED BY:		LTSL	
DATUM: AHD					
ORIGIN OF LEVELS: PM25501, RL59.659					
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025	
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024	
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024	

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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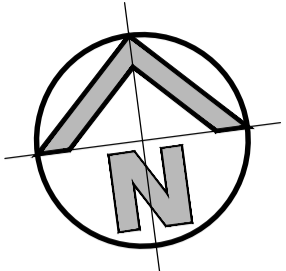
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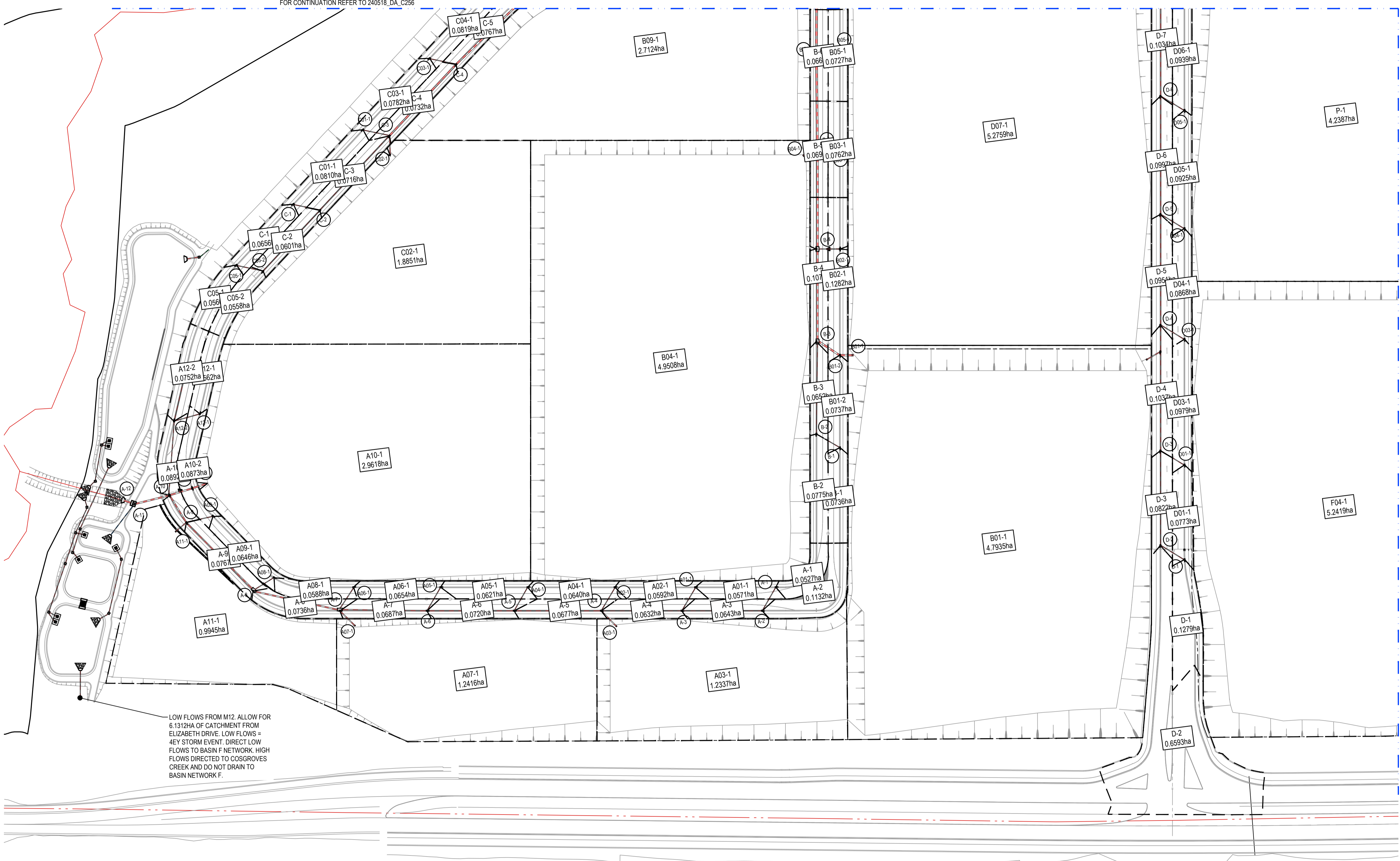


Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Drawn	A.Fernandes
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Fernandes
Original issue date	45566
Scale	Scale B/A1
Scale	1:1250
Drawing number	240518_DA_C257
Revision	03

Title	STORMWATER DETAILED CATCHMENT PLAN SHEET 4 OF 6
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FOR CONTINUATION REFER TO 240518_DA_C256



LOW FLOWS FROM M12. ALLOW FOR 6.1312HA OF CATCHMENT FROM ELIZABETH DRIVE. LOW FLOWS = 4EY STORM EVENT. DIRECT LOW FLOWS TO BASIN F NETWORK. HIGH FLOWS DIRECTED TO COSGROVES CREEK AND DO NOT DRAIN TO BASIN NETWORK F.

FOR CONTINUATION REFER TO 240518_DA_C259

STORMWATER DETAILED CATCHMENT PLAN

SCALE: 1:1250



ISSUED FOR SSDA

SURVEY INFORMATION		DATE		DRAWN		DESIGNED		DATE	
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DATUM: AHD	03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025				
ORIGIN OF LEVELS: PMZ5501, RL59.659	02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024				
	01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024				
REVISION	AMENDMENT		DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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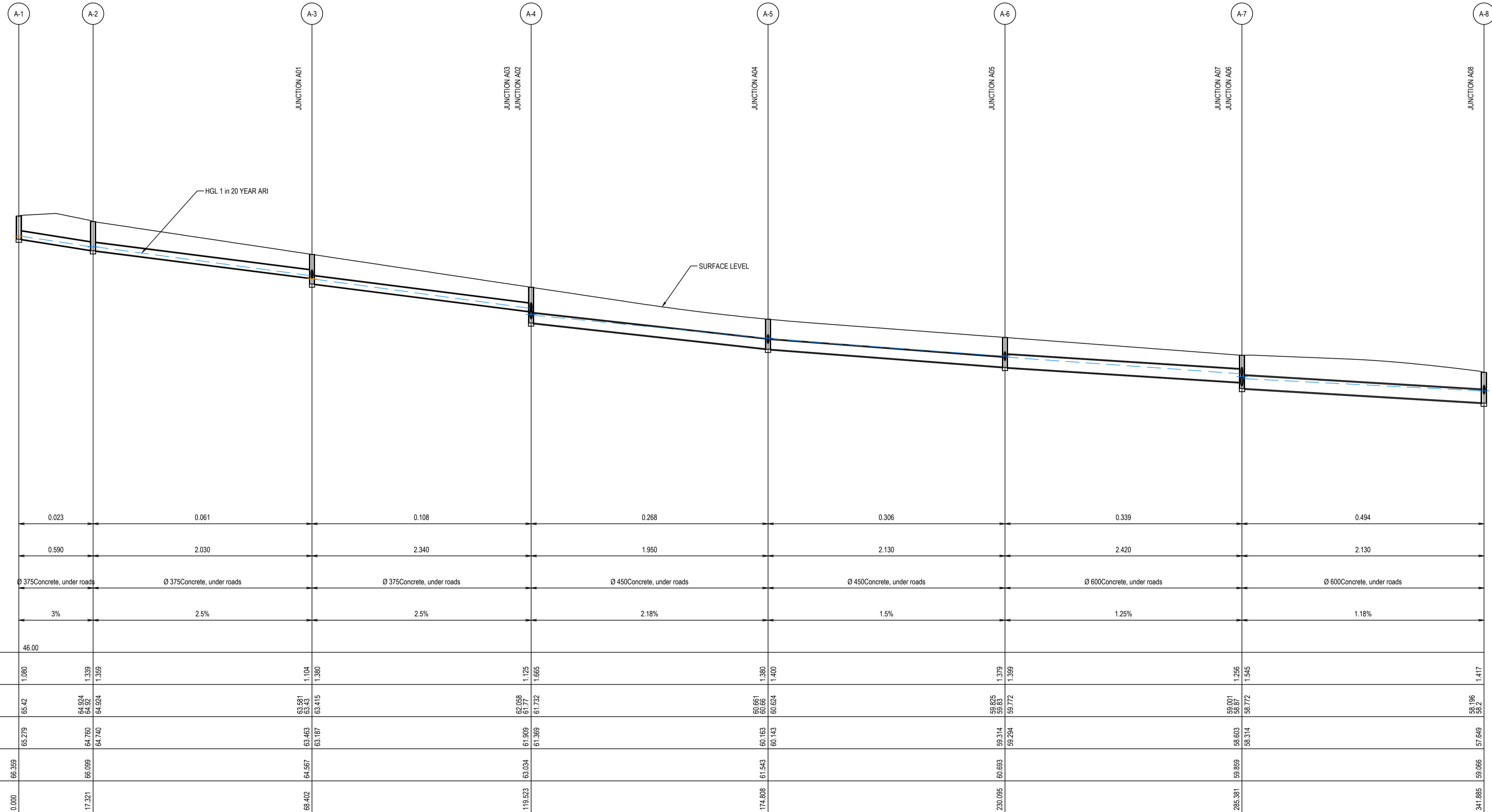
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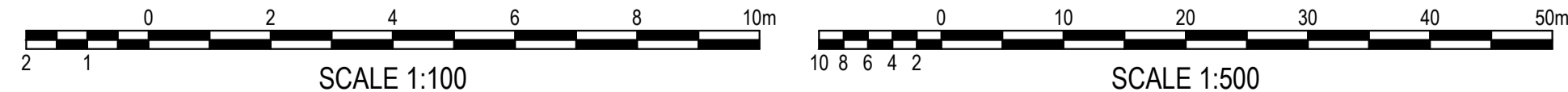
Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER DETAILED CATCHMENT PLAN SHEET 5 OF 6

Drawn	A.Fernandes	Designed	N.Wetzlar	Original issue date	45566
Checked	N.Wetzlar	Approved	A.Francis	Scale	1:1250
Drawing number	240518_DA_C258			Revision	03



LINE A
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



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SURVEY INFORMATION		Client		Architect / Surveyor	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd		NETTLETONTRIBE	
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REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	

Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS NOTED
Drawing number 240518_DA_C260		Revision 03

Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 1 OF 25

Client
NETTLETONTRIBE

Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 1 OF 25

Client
NETTLETONTRIBE

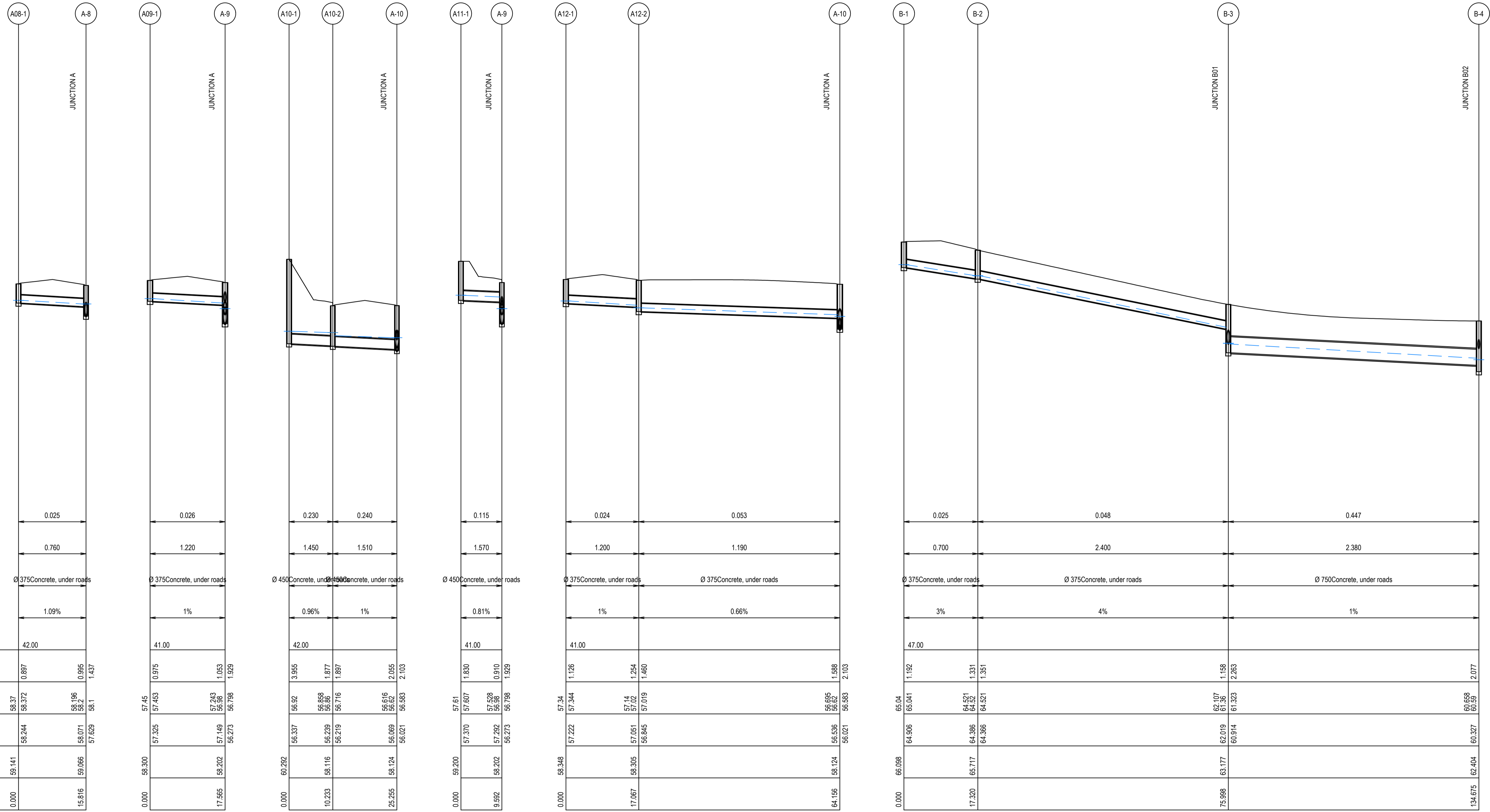
Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 1 OF 25

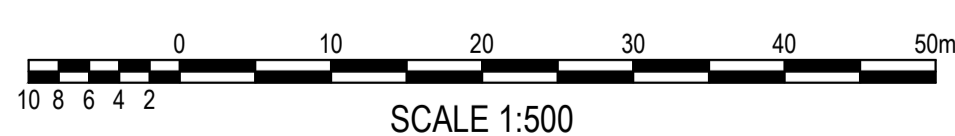
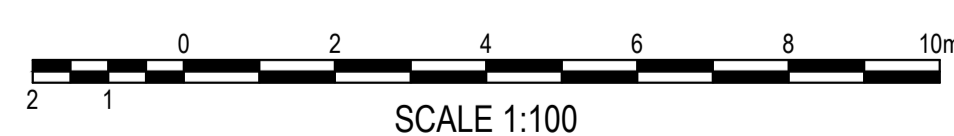
Client
NETTLETONTRIBE

Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 1 OF 25



LINE A08 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE A09 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE A10 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE A11 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE A12 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE B HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1



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SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PMZ5501, RL59.659				
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03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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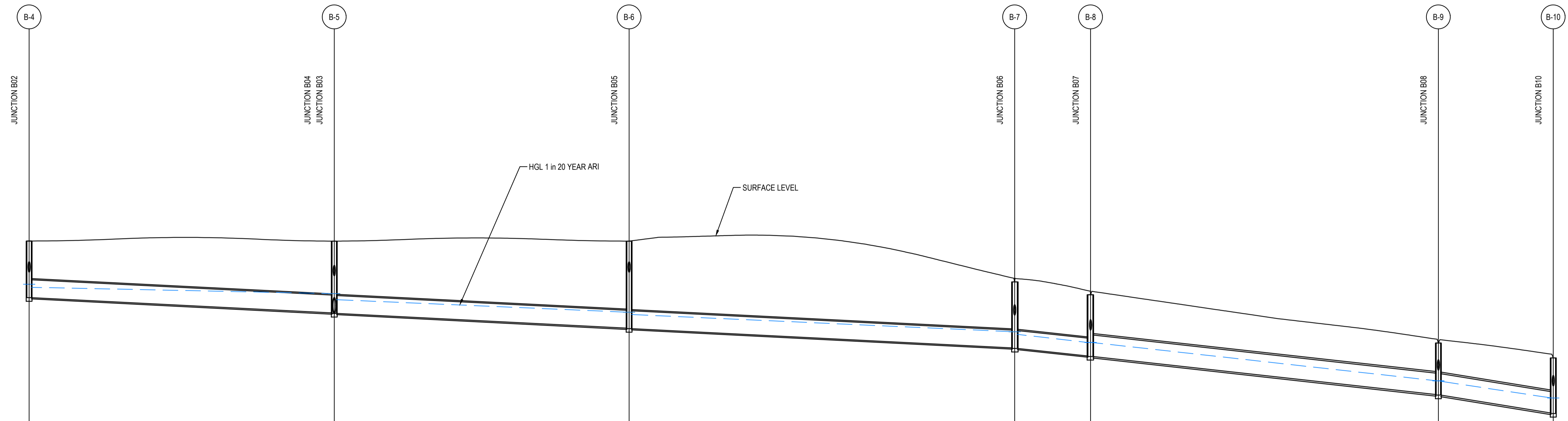
DRAWING TO BE PRINTED IN COLOUR



Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 3 OF 25

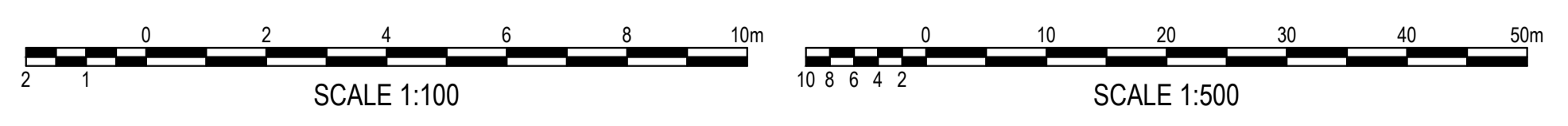
Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS NOTED
Drawing number 240518_DA_C262		Revision 03



Flow (m³/s)	0.500		0.872		0.925		0.923		1.035		0.975	
Velocity (m/s)	1.890		2.400		2.470		2.590		2.380		2.250	
Pipe Size & Class	Ø 750Concrete, under roads		Ø 750Concrete, under roads		Ø 750Concrete, under roads		Ø 750Concrete, under roads		Ø 900Concrete, under roads		Ø 900Concrete, under roads	
Grade (%)	1%		1%		1%		2%		2.19%		3.13%	

Datum R.L.	42.00											
DEPTH TO INVERT	2.077	2.376										
H.G.L. LEVELS 1 in 20 Year ARI	60.698 60.59	60.462			60.2	3.012	3.032					
INVERT R.L.	60.327	60.028			59.388	59.388	59.344					
SURFACE R.L.	62.404	62.404			62.400	62.400	62.401			60.152	60.152	57.501
PIPE CHAINAGE	134.675				198.672					341.400		454.379

LINE B
 HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1



ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY
REVISION	AMENDMENT	DRAWN	DESIGNED

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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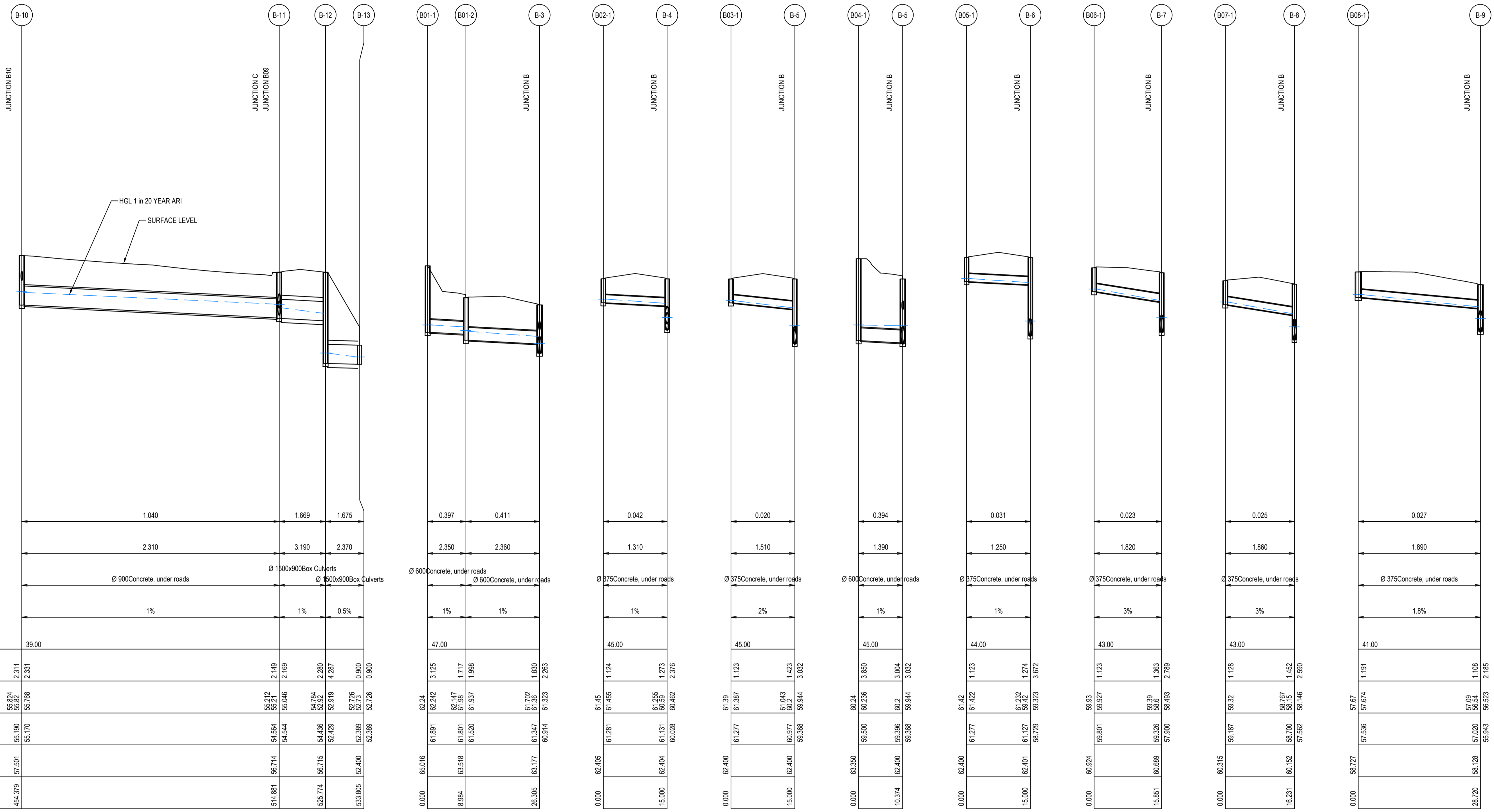
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 Facsimile
 +61 2 9417 8337
 Email
 email@hhoonsuit.com.au
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Project
BURRAH PARK
 ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
 SHEET 4 OF 25

Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	@A1
Drawing number	240518_DA_C263			Revision	03

P:\Projects\240518_Burrah Park\Drawings\240518_DA_C263_Lines\240518_DA_C263_Lines.dwg
 DATE PLOTTED: 09/09/2024 10:52:24 AM
 SCALE: 1:100



Flow (m³/s)	1.040	1.669	1.675
Velocity (m/s)	2.310	3.190	2.370
Pipe Size & Class	Ø 900 Concrete, under roads	Ø 1500x900 Box Culverts	Ø 1500x900 Box Culverts
Grade (%)	1%	1%	0.5%

Datum R.L.	39.00		
DEPTH TO INVERT	2.311	2.331	
H.G.L. LEVELS 1 in 20 Year ARI	55.924	55.768	
INVERT R.L.	55.190	55.170	
SURFACE R.L.	57.501	57.501	
PIPE CHAINAGE	454.379	514.881	525.774

LINE B
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B01
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B02
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B03
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

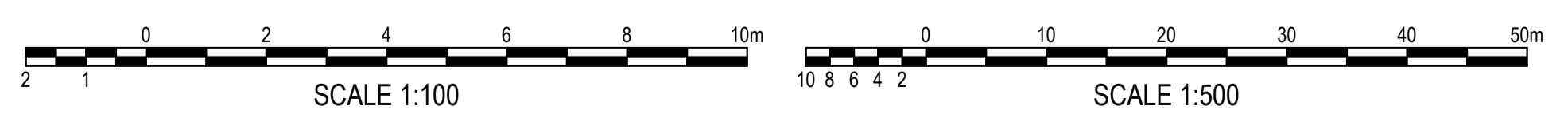
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HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B05
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B06
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B07
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B08
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ISSUED FOR SSDA

SURVEY INFORMATION		Client	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd	
DATUM: AHD		Architect / Surveyor	
ORIGIN OF LEVELS: PMZ5501, RL59.659		NETTLETONTRIBE	
REVISION		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.	
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY
REVISION	AMENDMENT	DRAWN	DESIGNED

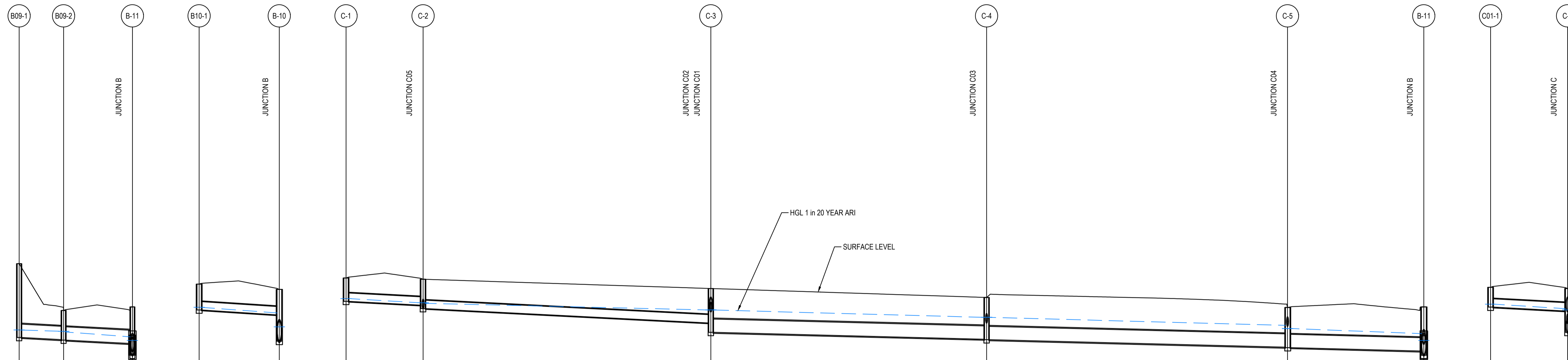
Client: HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor: NETTLETONTRIBE
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Project: BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Title: STORMWATER LONGITUDINAL SECTIONS
SHEET 5 OF 25

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	AS NOTED
Drawing number	Revision	
240518_DA_C264	03	



Flow (m³/s)	0.301	0.315	0.025	0.090	0.300	0.331	0.373	0.030
Velocity (m/s)	1.860	2.190	1.330	1.230	1.280	1.430	1.600	1.240
Pipe Size & Class	Ø 600 Concrete, under roads	Ø 600 Concrete, under roads	Ø 375 Concrete, under roads	Ø 375 Concrete, under roads	Ø 600 Concrete, under roads	Ø 600 Concrete, under roads	Ø 600 Concrete, under roads	Ø 375 Concrete, under roads
Grade (%)	1%	1%	1.22%	1%	0.5%	0.5%	0.5%	1%

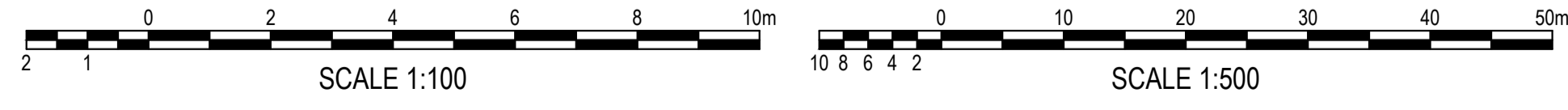
Datum R.L.	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
DEPTH TO INVERT		3.315	1.164	1.048	1.550	1.879	1.808	0.892
H.G.L. LEVELS 1 in 20 Year ARI	55.68	55.616	55.65	55.57	55.57	55.245	55.245	55.245
INVERT R.L.	55.342	55.242	55.577	56.896	55.992	56.261	54.903	56.705
SURFACE R.L.	56.657	56.553	57.501	57.959	57.542	57.140	56.691	57.597
PIPE CHAINAGE	0.000	9.996	18.010	17.200	81.985	143.957	211.990	242.214

LINE B09
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE B10
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE C
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

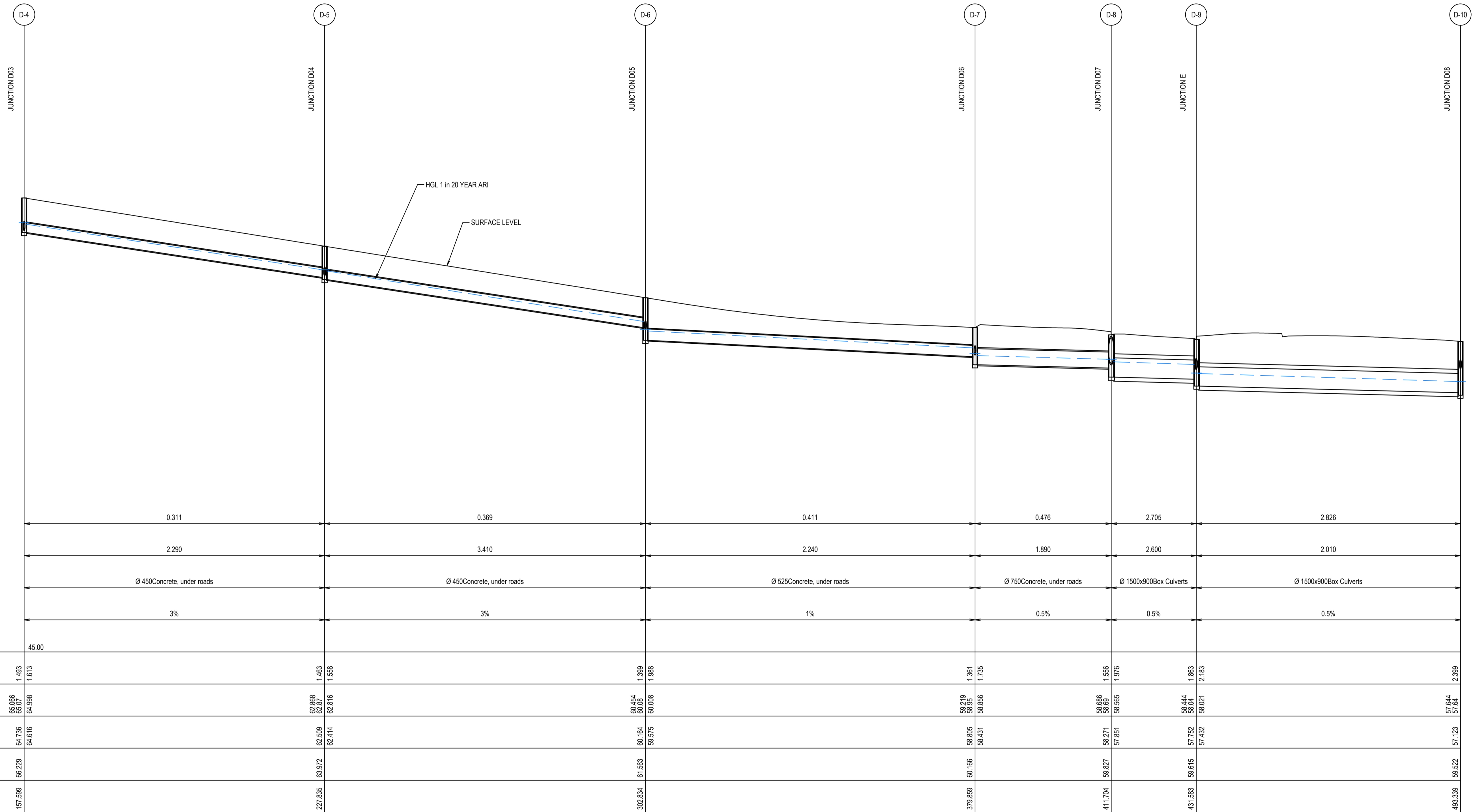
LINE C01
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE Suite 2.01, 828 Pacific Highway, Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hiconsult.com.au Web: www.henryandhymas.com.au				Project: BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW Title: STORMWATER LONGITUDINAL SECTIONS SHEET 6 OF 25				Drawn: L.Caha Checked: N.Wetzlar Drawing number: 240518_DA_C265		Designed: N.Wetzlar Approved: A.Francis Original issue date: 45413 Scale @ A1 AS NOTED Revision: 03				
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025														
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024														
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024														

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 Plot Date: 06/06/2025 10:52:14 AM
 Plot Scale: 1:100
 Plot Size: 297x420 mm
 Plot Orientation: Landscape
 Plot Device: HP DesignJet T1100e



LINE D
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



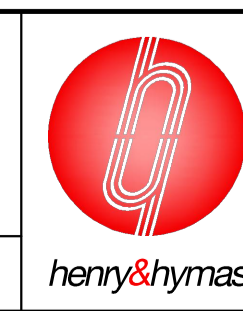
ISSUED FOR SSDA

SURVEY INFORMATION		Client		Architect / Surveyor	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd		NETTLETONTRIBE	
DATUM: AHD		Suite 2.01 828 Pacific Highway Gordon NSW 2072		Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@honsuit.com.au Web www.henryandhymas.com.au	
ORIGIN OF LEVELS: PM25501_RL59.659		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		DRAWING TO BE PRINTED IN COLOUR	
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025	
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024	
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024	

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS NOTED
Drawing number		Revision
240518_DA_C267		03

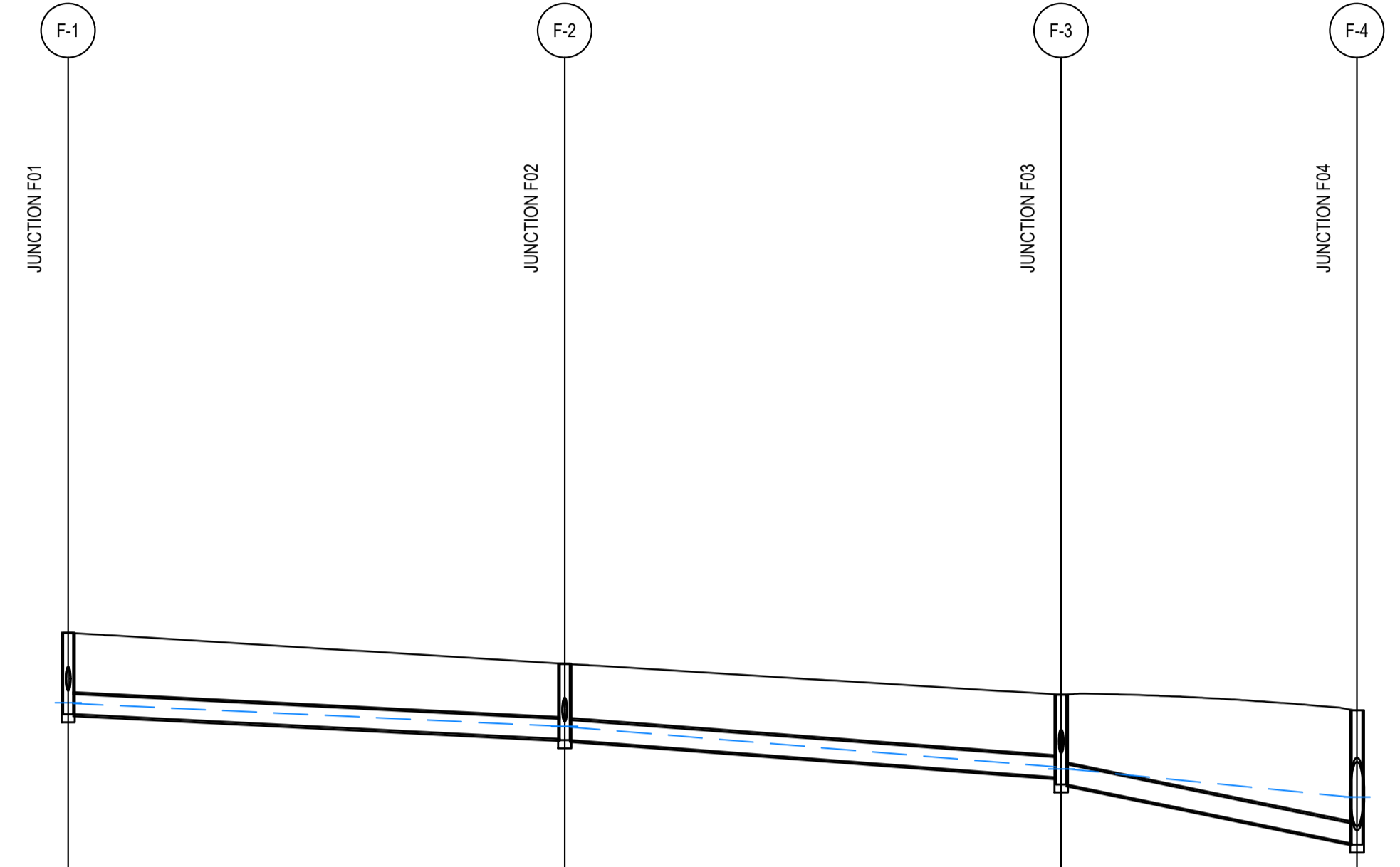
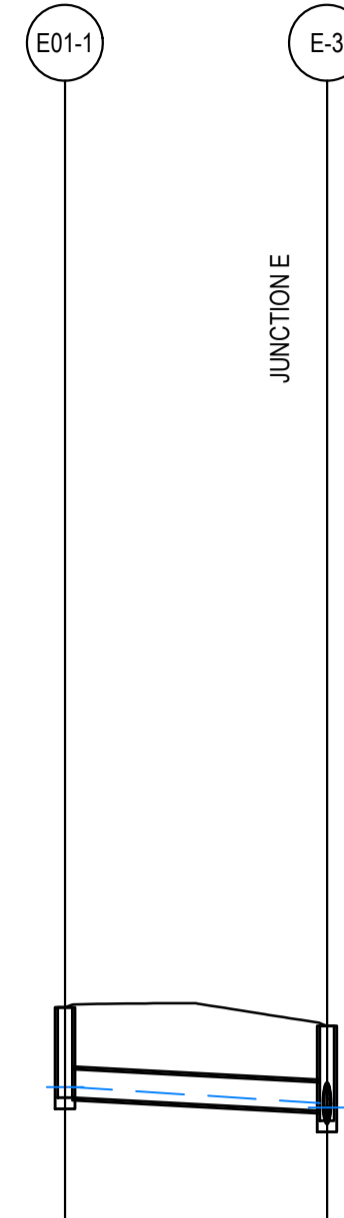
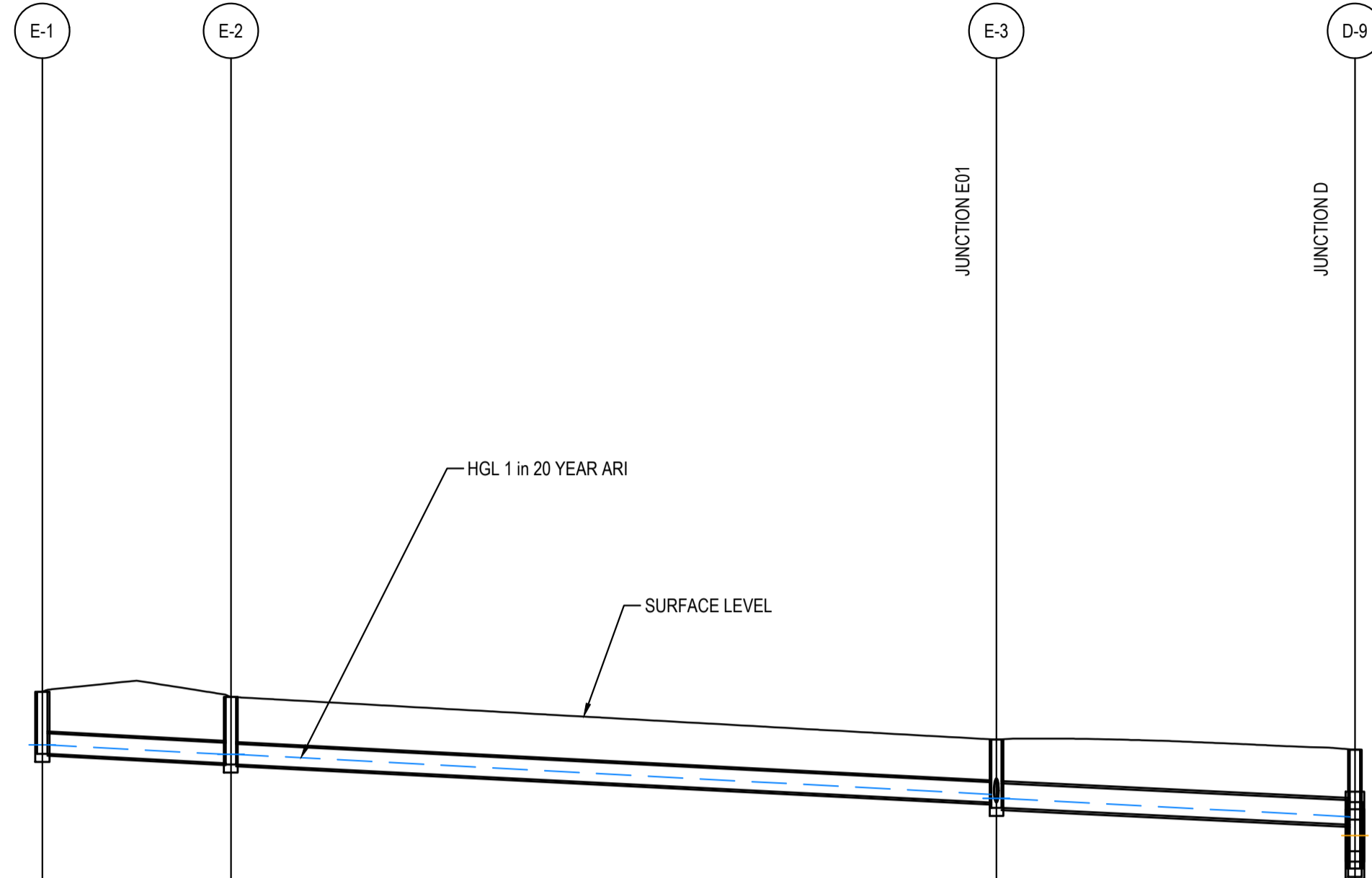
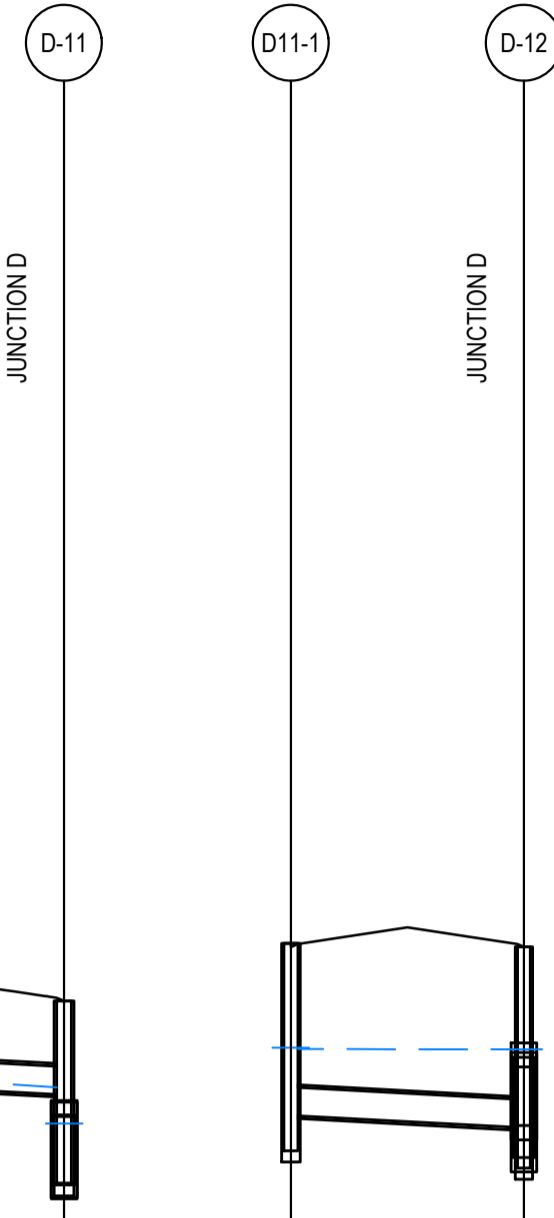
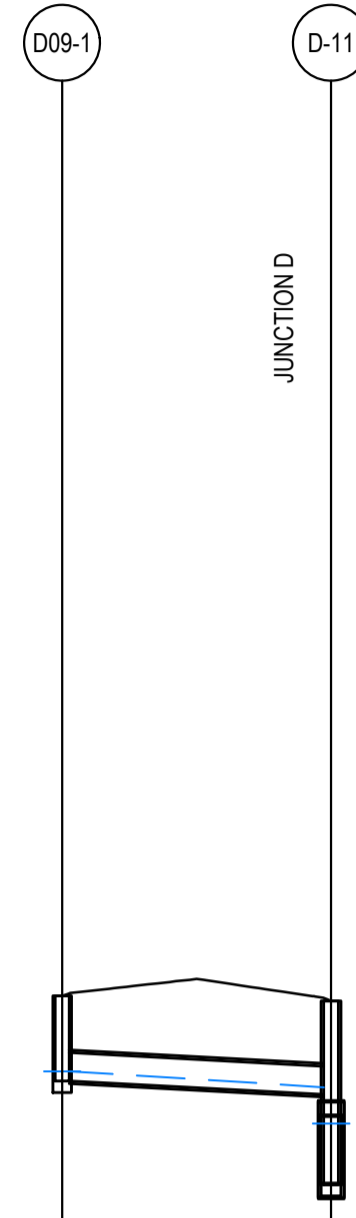
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 8 OF 25



Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS NOTED
Drawing number		Revision
240518_DA_C267		03

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS NOTED
Drawing number		Revision
240518_DA_C267		03



Flow (m³/s)	0.027
Velocity (m/s)	1.220
Pipe Size & Class	Ø 375Concrete, under roads
Grade (%)	1%

Flow (m³/s)	0.047
Velocity (m/s)	0.430
Pipe Size & Class	Ø 375Concrete, under roads
Grade (%)	1%

Flow (m³/s)	0.029	0.060	0.126
Velocity (m/s)	0.630	1.430	1.420
Pipe Size & Class	Ø 375Concrete, under roads	Ø 375Concrete, under roads	Ø 450Concrete, under roads
Grade (%)	1%	1%	0.94%

Flow (m³/s)	0.030
Velocity (m/s)	1.240
Pipe Size & Class	Ø 375Concrete, under roads
Grade (%)	1%

Flow (m³/s)	0.069	0.111	0.155
Velocity (m/s)	1.150	1.970	1.700
Pipe Size & Class	Ø 375Concrete, under roads	Ø 375Concrete, under roads	Ø 375Concrete, under roads
Grade (%)	1%	1.5%	4%

Datum R.L.	42.00	
DEPTH TO INVERT	1.125	1.239
H.G.L. LEVELS 1 in 20 Year ARI	56.2	57.989
INVERT R.L.	56.071	57.883
SURFACE R.L.	59.196	59.132
PIPE CHAINAGE	0.000	17.783

Datum R.L.	41.00	
DEPTH TO INVERT	2.740	2.280
H.G.L. LEVELS 1 in 20 Year ARI	57.494	57.49
INVERT R.L.	56.456	55.920
SURFACE R.L.	58.845	58.845
PIPE CHAINAGE	0.000	15.411

Datum R.L.	43.00		
DEPTH TO INVERT	1.140	1.218	1.251
H.G.L. LEVELS 1 in 20 Year ARI	59.701	59.528	58.721
INVERT R.L.	58.537	58.364	58.472
SURFACE R.L.	59.798	59.798	59.547
PIPE CHAINAGE	0.000	17.321	87.569

Datum R.L.	43.00	
DEPTH TO INVERT	1.195	1.251
H.G.L. LEVELS 1 in 20 Year ARI	58.99	58.78
INVERT R.L.	58.651	58.678
SURFACE R.L.	60.046	59.798
PIPE CHAINAGE	0.000	17.321

Datum R.L.	48.00		
DEPTH TO INVERT	1.515	1.399	1.419
H.G.L. LEVELS 1 in 20 Year ARI	64.116	64.875	64.86
INVERT R.L.	63.095	64.637	64.617
SURFACE R.L.	65.461	66.036	66.617
PIPE CHAINAGE	92.223	119.699	119.699

LINE D09
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE D11
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE E
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE E01
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE F
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY
REVISION	AMENDMENT	DRAWN	DESIGNED

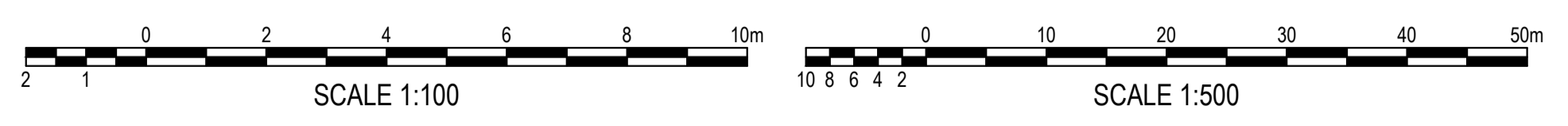
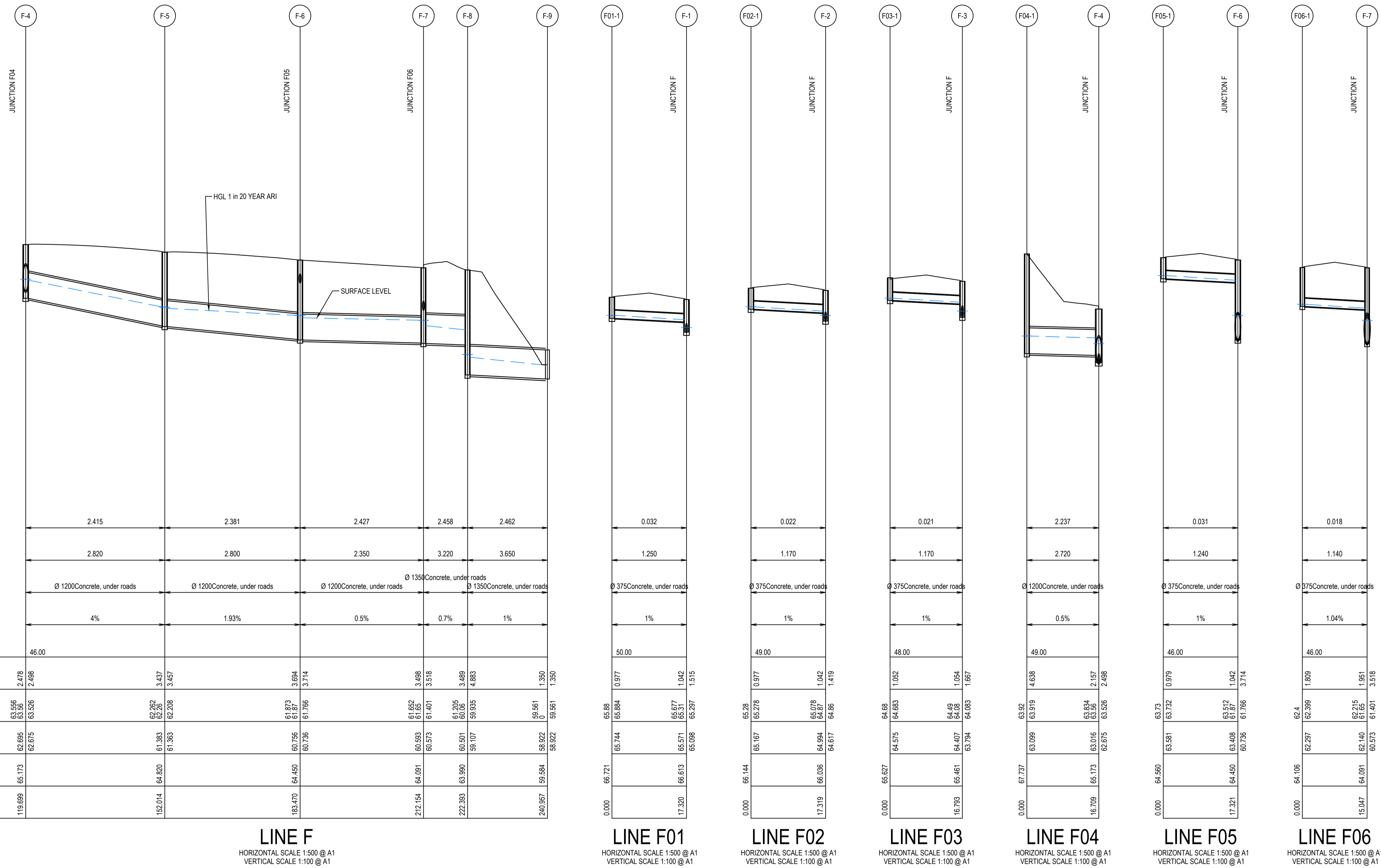
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Title	STORMWATER LONGITUDINAL SECTIONS SHEET 10 OF 25

Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale @A1	AS NOTED
Drawing number	240518_DA_C269			Revision	03



ISSUED FOR SSDA

SURVEY INFORMATION		SURVEYED BY:		L.TSL	
DATUM: AHD					
ORIGIN OF LEVELS:	PMZ5501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION

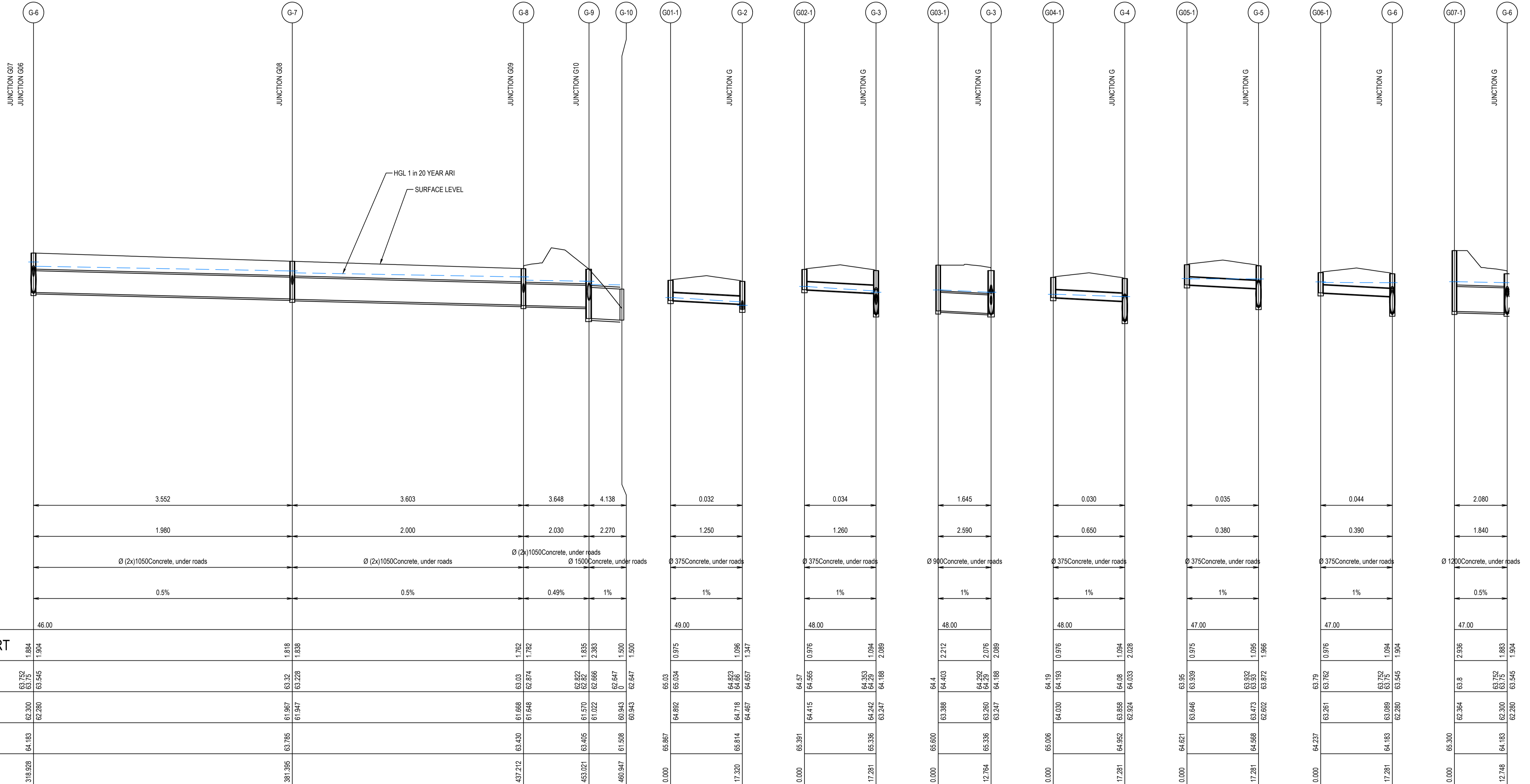
Client
HB&B Property Pty and ISPT Pty Ltd
 Archibald / Surveyor
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Project
BURRAH PARK
 ELIZABETH DRIVE, BADGERY'S CREEK, NSW
 Title
STORMWATER LONGITUDINAL SECTIONS
 SHEET 11 OF 25

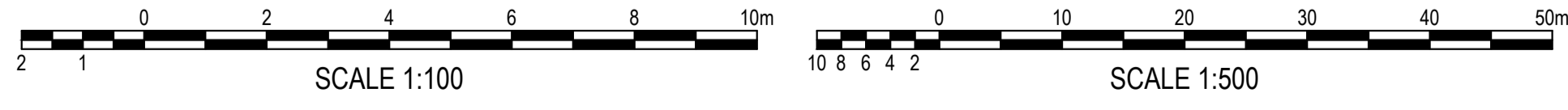
Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS NOTED
Drawing number 240518_DA_C270		Revision 03



Flow (m³/s)	3.552		3.603		3.648		4.138		0.032		0.034		1.645		0.030		0.035		0.044		2.080	
Velocity (m/s)	1.980		2.000		2.030		2.270		1.250		1.260		2.590		0.650		0.380		0.390		1.840	
Pipe Size & Class	Ø (2x)1050Concrete, under roads		Ø (2x)1050Concrete, under roads		Ø (2x)1050Concrete, under roads		Ø 1500Concrete, under roads		Ø 375Concrete, under roads		Ø 375Concrete, under roads		Ø 900Concrete, under roads		Ø 375Concrete, under roads		Ø 375Concrete, under roads		Ø 375Concrete, under roads		Ø 1200Concrete, under roads	
Grade (%)	0.5%		0.5%		0.49%		1%		1%		1%		1%		1%		1%		1%		0.5%	

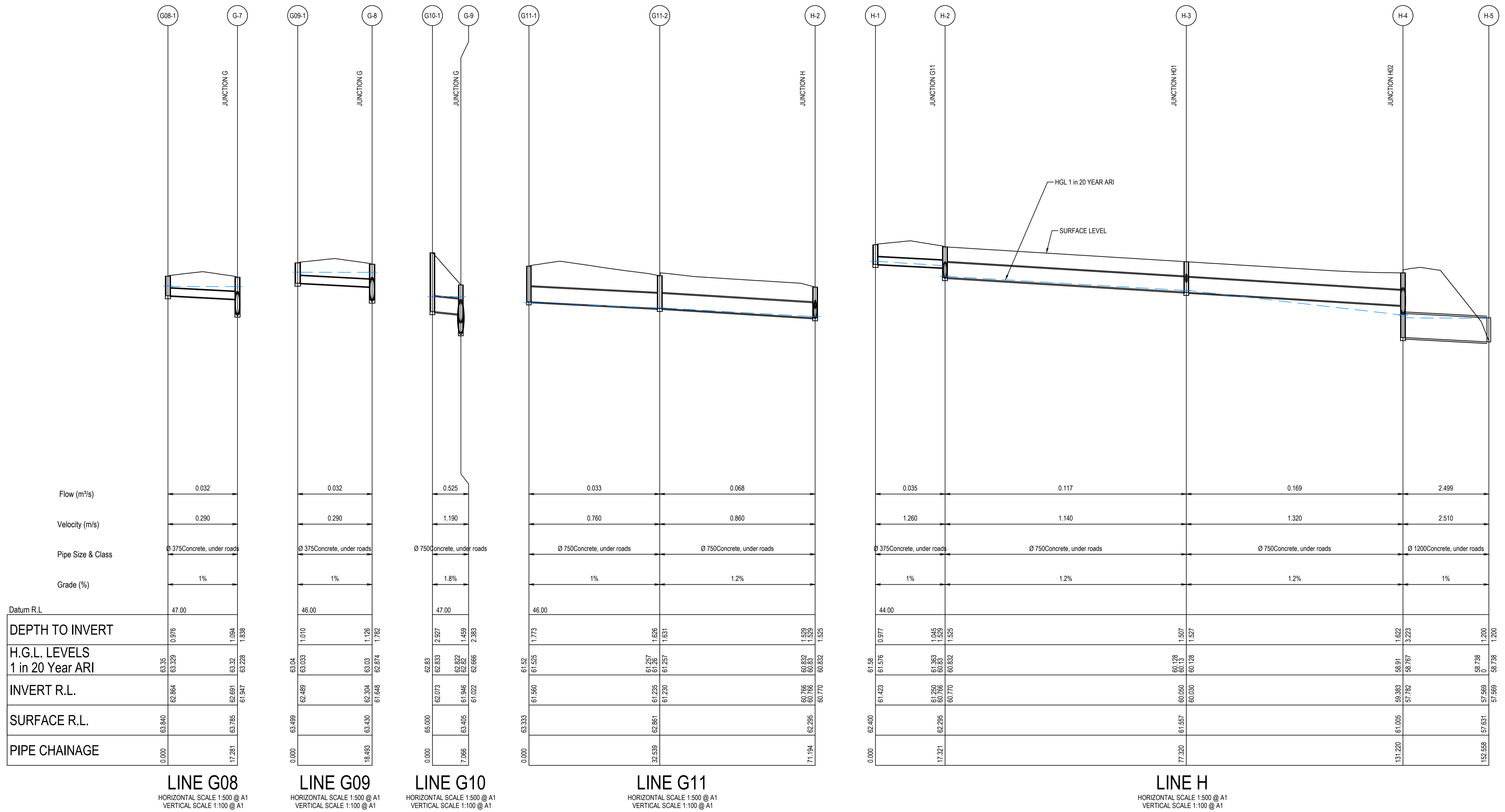
Datum R.L.	46.00								49.00		48.00		48.00		48.00		47.00		47.00		47.00		
DEPTH TO INVERT	1.684	1.904																					
H.G.L. LEVELS 1 in 20 Year ARI	63.752 63.715	63.545	63.32 63.228	63.1818 63.228	63.03 62.874	1.782 1.782	62.822 62.82	1.835 2.383	62.666 62.647	1.500 1.500	65.03 64.892	65.034 64.892	64.762 64.892	1.096 1.347	64.57 64.415	64.565 64.415	64.4 63.388	64.403 63.388	64.4 63.388	64.4 63.388	64.4 63.388	64.4 63.388	64.4 63.388
INVERT R.L.	62.300 62.290	62.300 62.290	61.967 61.947	61.967 61.947	61.668 61.648	61.668 61.648	61.570 61.022	62.866 62.647	60.943 60.943	60.943 60.943	65.03 64.892	65.034 64.892	64.762 64.892	1.096 1.347	64.57 64.415	64.565 64.415	64.4 63.388	64.403 63.388	64.4 63.388	64.4 63.388	64.4 63.388	64.4 63.388	64.4 63.388
SURFACE R.L.	64.183	64.183	63.785	63.785	63.430	63.430	63.405	63.405	61.508	61.508	65.867	65.867	64.718	64.567	65.391	65.391	65.600	65.600	65.600	65.600	65.600	65.600	65.600
PIPE CHAINAGE	318.928		381.395		437.212		453.021		460.947		0.000		17.220		0.000		12.764		17.281		17.281		12.748

LINE G HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE G01 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE G02 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE G03 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE G04 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE G05 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE G06 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE G07 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1

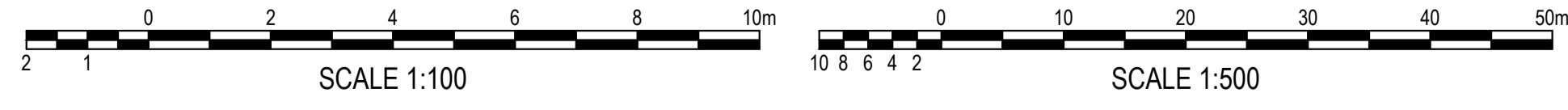


ISSUED FOR SSDA

SURVEY INFORMATION				Client HB&B Property Pty and ISPT Pty Ltd				Suite 2.01 828 Pacific Highway Gordon NSW 2072				Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hnsconsult.com.au Web www.henryandhymas.com.au				Project BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW				Drawn L.Caha				Designed N.Wetzlar				Original issue date 45413			
SURVEYED BY: LTSL				Architect / Surveyor NETTLETONTRIBE												Checked N.Wetzlar				Approved A.Francis				Scale @A1 AS NOTED							
DATUM: AHD				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				DRAWING TO BE PRINTED IN COLOUR								Drawing number 240518_DA_C272				Revision 03											
ORIGIN OF LEVELS: PMZ5501, RL59.659				REVISION				AMENDMENT				DRAWN				DESIGNED				DATE											



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 DATE PLOTTED: 15/10/2024 10:00:00 AM
 PLOT SCALE: 1:100

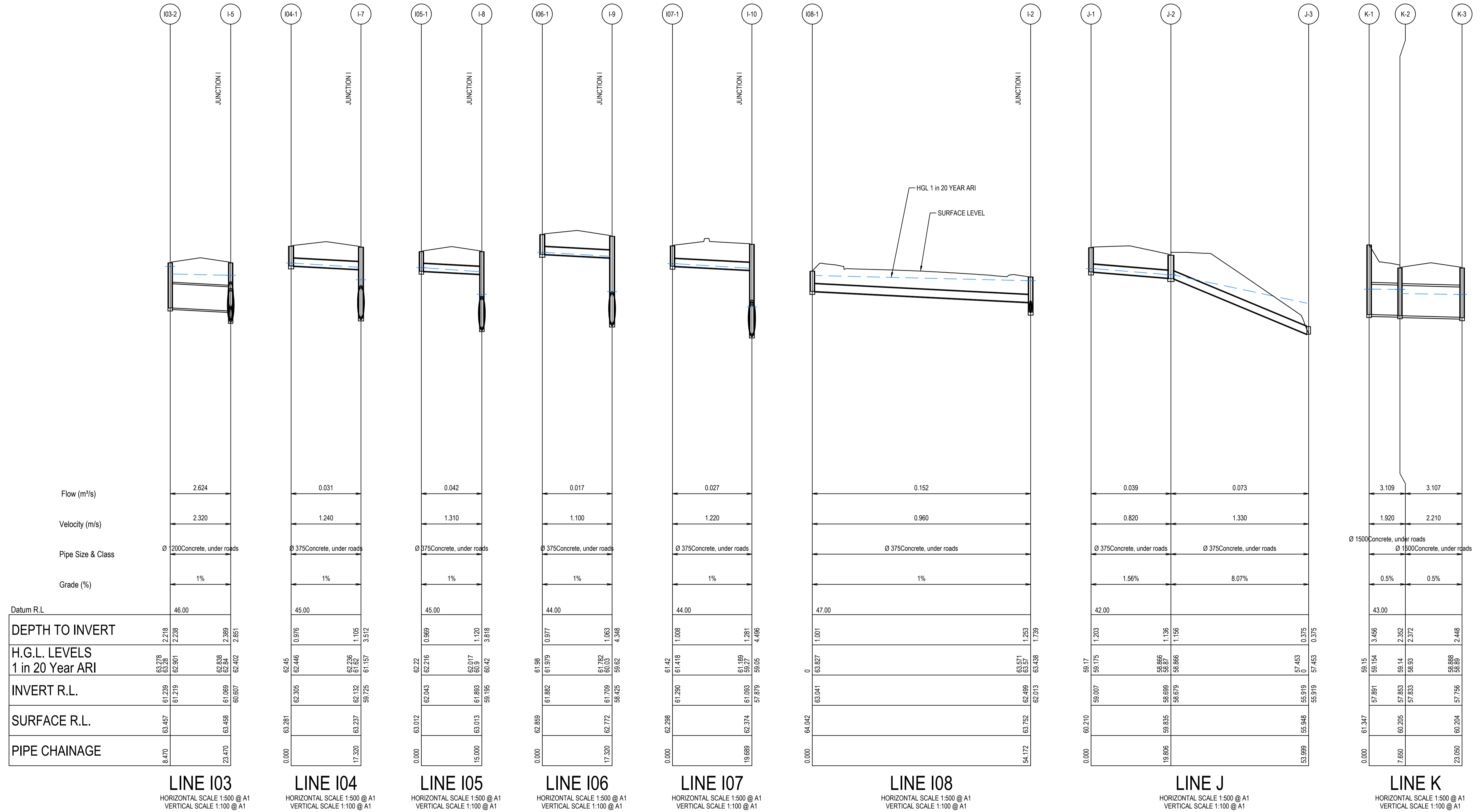


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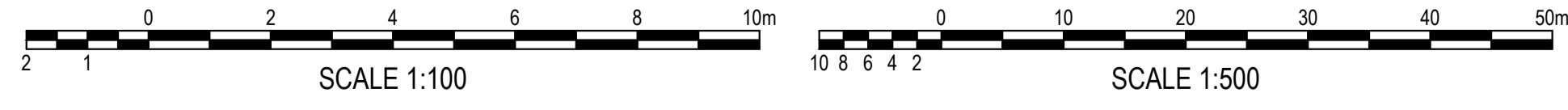
SURVEY INFORMATION		Client		Architect / Surveyor	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd		NETTLETONTRIBE	
DATUM: AHD		Suite 2.01 828 Pacific Highway Gordon NSW 2072		Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@honsuit.com.au Web www.henryandhymas.com.au	
ORIGIN OF LEVELS: PM25501_RL59.659		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		DRAWING TO BE PRINTED IN COLOUR	
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	DATE
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025	
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024	
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024	

<p>henry&hymas</p>	<p>Project</p> <p>BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW</p> <p>Title</p> <p>STORMWATER LONGITUDINAL SECTIONS SHEET 14 OF 25</p>
------------------------	---

Drawn L.Caha	Designed N.Wetzlar	Original issue date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 AS NOTED
Drawing number 240518_DA_C273		Revision 03



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SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PMZ5501, RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY
REVISION	AMENDMENT	DRAWN	DESIGNED

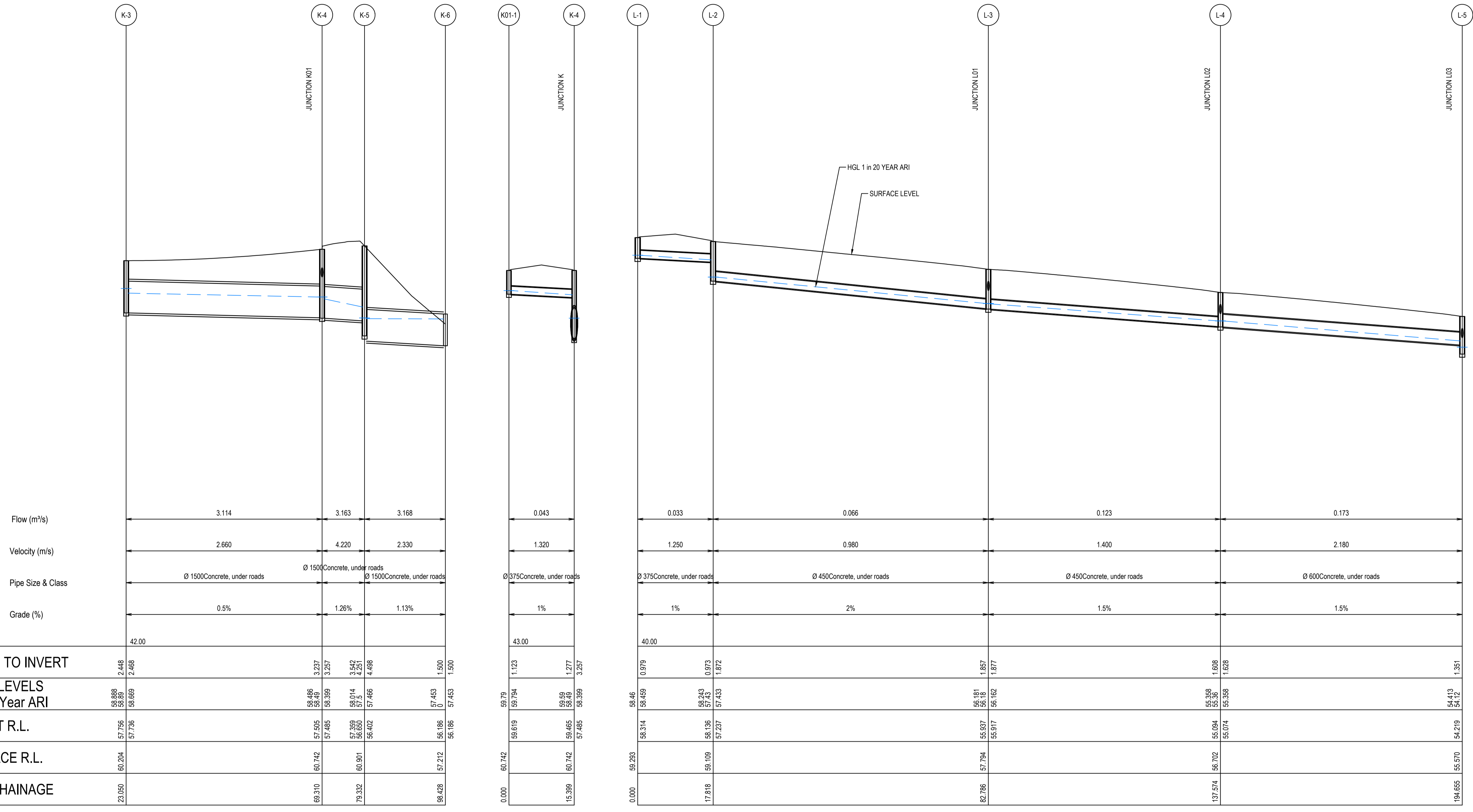
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Title	STORMWATER LONGITUDINAL SECTIONS SHEET 17 OF 25

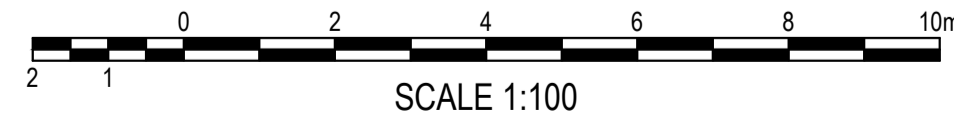
Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	@A1
Drawing number	240518_DA_C276			Revision	03



LINE K
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE K01
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE L
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



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SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PM25501_RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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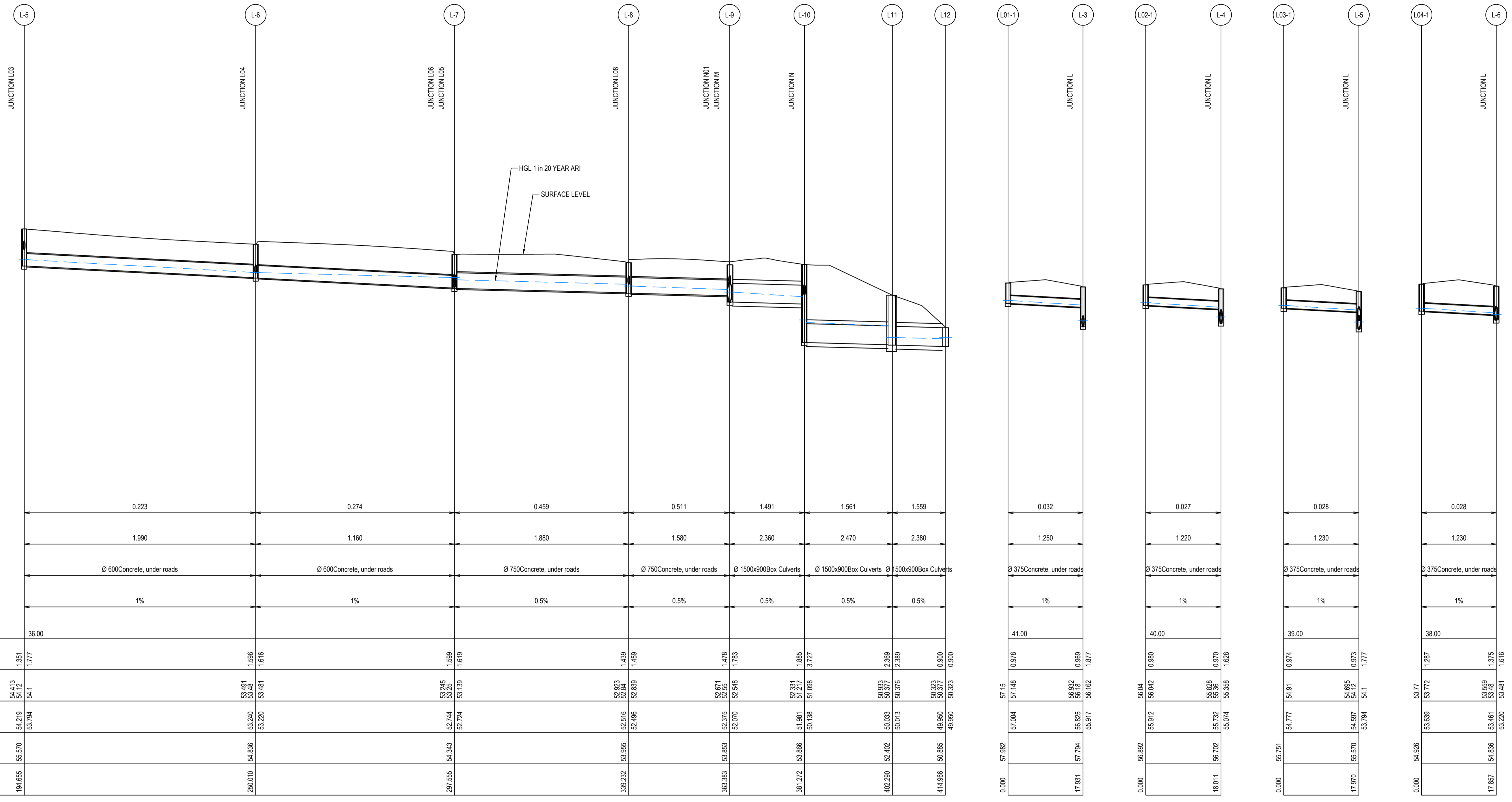
DRAWING TO BE PRINTED IN COLOUR



Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 18 OF 25

Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	@A1
Drawing number	240518_DA_C277			Revision	03



LINE L

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE L01

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE L02

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE L03

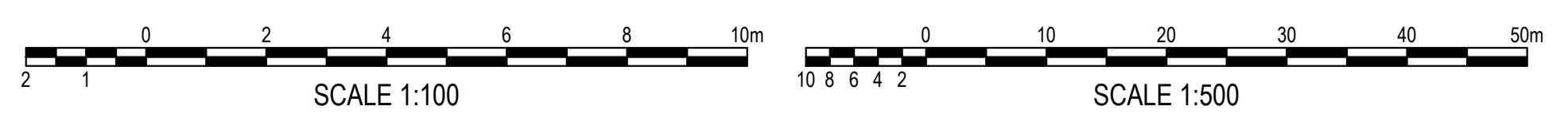
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE L04

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

Flow (m³/s)	0.223		0.274		0.459		0.511		1.491		1.561		1.559	
Velocity (m/s)	1.990		1.160		1.880		1.580		2.360		2.470		2.380	
Pipe Size & Class	Ø 600Concrete, under roads		Ø 600Concrete, under roads		Ø 750Concrete, under roads		Ø 750Concrete, under roads		Ø 1500x900Box Culverts		Ø 1500x900Box Culverts		Ø 1500x900Box Culverts	
Grade (%)	1%		1%		0.5%		0.5%		0.5%		0.5%		0.5%	

Datum R.L.	36.00													
DEPTH TO INVERT	1.351	1.777			1.599	1.619			1.478	1.783			0.978	0.969
H.G.L. LEVELS 1 in 20 Year ARI	54.413	54.12	53.481	53.248	52.923	52.84	52.671	52.546	52.317	52.185	50.933	50.377	50.376	2.969
INVERT R.L.	54.219	53.794	53.240	53.220	52.744	52.724	52.275	52.070	51.981	51.098	50.033	50.013	50.013	2.389
SURFACE R.L.	55.570	54.836	54.343	53.481	53.955	52.496	53.853	53.794	53.866	53.138	52.402	50.885	50.885	0.900
PIPE CHAINAGE	194.655		250.010		297.555		339.232		363.383		402.290		414.966	



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SURVEY INFORMATION													
SURVEYED BY: LTSL													
DATUM: AHD													
ORIGIN OF LEVELS: PM25501_RL59.659													
REVISION	AMENDMENT	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE					

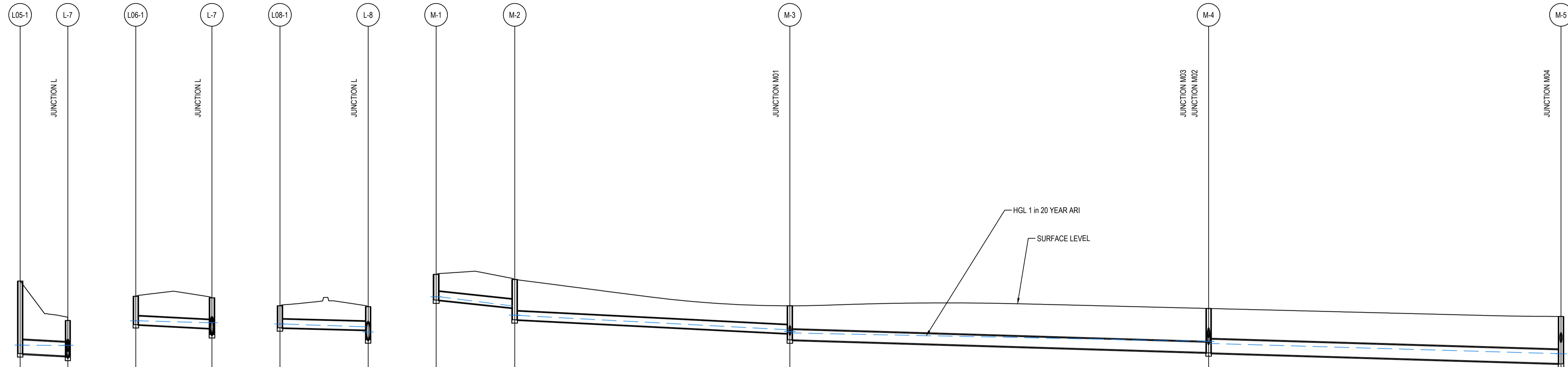
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Title	STORMWATER LONGITUDINAL SECTIONS SHEET 19 OF 25

Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale @A1	AS NOTED
Drawing number	240518_DA_C278		Revision	03	



Flow (m³/s)
Velocity (m/s)
Pipe Size & Class
Grade (%)

Datum R.L.	LINE L05		LINE L06		LINE L08	
	38.00		37.00		37.00	
DEPTH TO INVERT						
H.G.L. LEVELS 1 in 20 Year ARI	52.26	52.257	53.33	53.332	53.19	53.192
INVERT R.L.	52.887	52.782	53.162	52.998	53.024	52.927
SURFACE R.L.	56.080	54.343	54.410	54.343	53.991	53.985
PIPE CHAINAGE	0.000	10.511	0.000	16.782	0.000	19.443

Flow (m³/s)
Velocity (m/s)
Pipe Size & Class
Grade (%)

Datum R.L.	LINE M	
	39.00	
DEPTH TO INVERT		
H.G.L. LEVELS 1 in 20 Year ARI	56.39	54.936
INVERT R.L.	56.246	54.773
SURFACE R.L.	57.375	55.991
PIPE CHAINAGE	0.000	76.002

LINE L05

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE L06

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE L08

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE M

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY
REVISION	AMENDMENT	DRAWN	DESIGNED

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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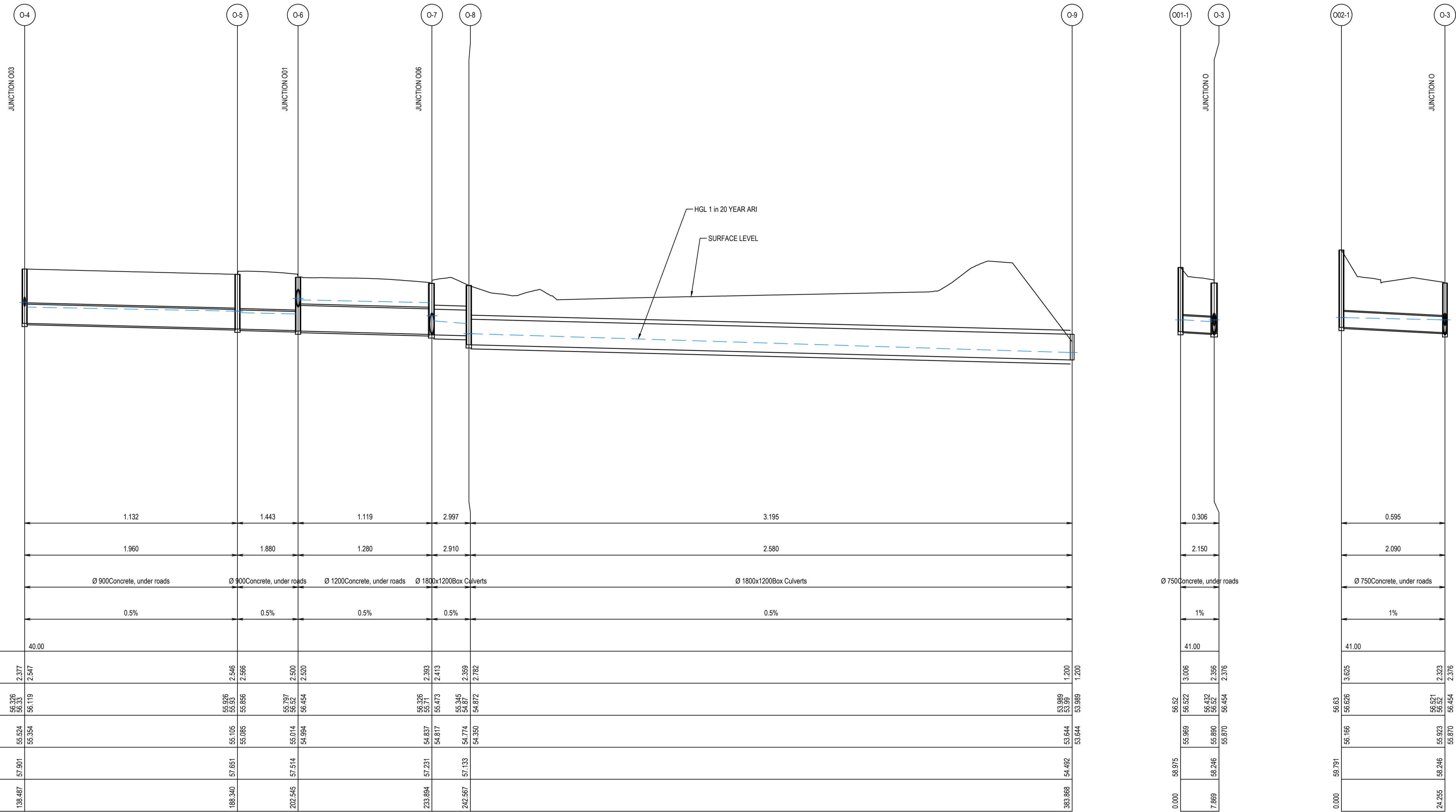
DRAWING TO BE PRINTED IN COLOUR



Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 20 OF 25

Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	@A1
AS NOTED					
Drawing number	240518_DA_C279			Revision	03



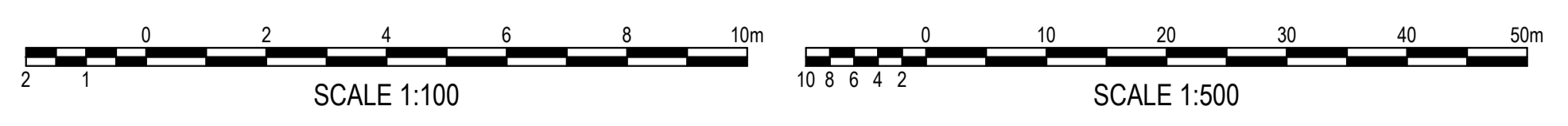
Flow (m³/s)	1.132		1.443		1.119		2.997		3.195				
Velocity (m/s)	1.960		1.880		1.280		2.910		2.580				
Pipe Size & Class	Ø 900 Concrete, under roads		Ø 900 Concrete, under roads		Ø 1200 Concrete, under roads		Ø 1800x1200 Box Culverts		Ø 1800x1200 Box Culverts				
Grade (%)	0.5%		0.5%		0.5%		0.5%		0.5%				
Datum R.L.	40.00												
DEPTH TO INVERT	2.377	2.547										1.200	1.200
H.G.L. LEVELS 1 in 20 Year ARI	56.326	56.333	56.119		55.926	55.933	56.856		55.797	55.797	56.454		
INVERT R.L.	55.524	55.354			55.105	55.085			55.014	55.014	54.984		
SURFACE R.L.	57.901				57.651				57.514				
PIPE CHAINAGE	138.487				188.340				202.545				

Flow (m³/s)	0.306		0.595	
Velocity (m/s)	2.150		2.090	
Pipe Size & Class	Ø 750 concrete, under roads		Ø 750 Concrete, under roads	
Grade (%)	1%		1%	
Datum R.L.	41.00			
DEPTH TO INVERT	3.006	2.356	3.625	2.323
H.G.L. LEVELS 1 in 20 Year ARI	56.522	56.432	56.522	56.522
INVERT R.L.	55.969	55.890	55.870	55.923
SURFACE R.L.	58.975	58.246	58.870	58.246
PIPE CHAINAGE	0.000	7.869	0.000	24.255

LINE O
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE O01
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

LINE O02
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



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SURVEY INFORMATION		Client		Suite 2.01		Telephone	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd		828 Pacific Highway Gordon NSW 2072		+61 2 9417 8400	
DATUM: AHD		Architect / Surveyor		Facsimile		+61 2 9417 8337	
ORIGIN OF LEVELS: PMZ5501, RL59.659		NETTLETONTRIBE		Email		email@hiconsult.com.au	
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025			
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024			
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY	15.10.2024			

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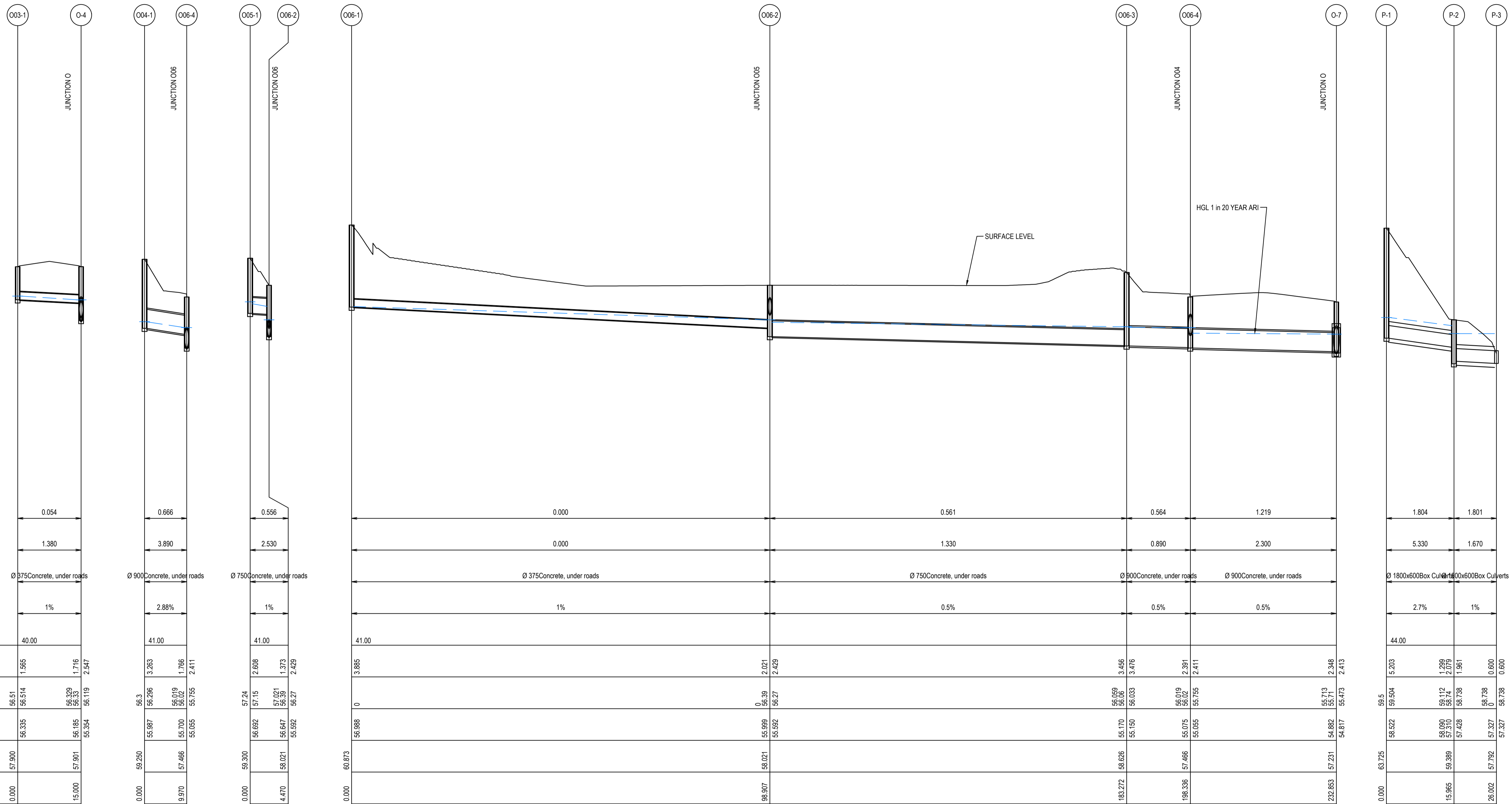
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Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 23 OF 25

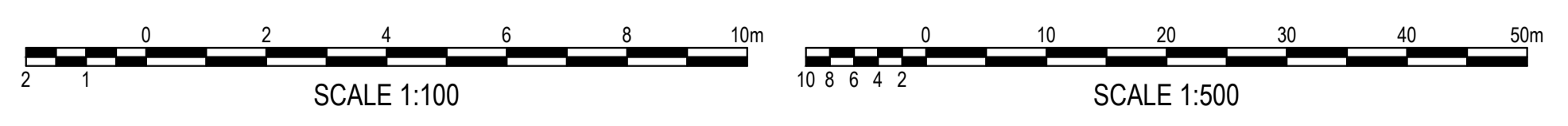
Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	AS NOTED
Drawing number	Revision	
240518_DA_C282	03	



Flow (m³/s)	0.054		0.666		0.556		0.000				0.561		0.564		1.219		1.804		1.801	
Velocity (m/s)	1.380		3.890		2.530		0.000				1.330		0.890		2.300		5.330		1.670	
Pipe Size & Class	Ø 375 Concrete, under roads		Ø 900 Concrete, under roads		Ø 750 Concrete, under roads		Ø 375 Concrete, under roads				Ø 750 Concrete, under roads		Ø 900 Concrete, under roads		Ø 900 Concrete, under roads		Ø 1800x600 Box Culverts		Ø 1800x600 Box Culverts	
Grade (%)	1%		2.88%		1%		1%				0.5%		0.5%		0.5%		2.7%		1%	

Datum R.L.	40.00		41.00		41.00		41.00				41.00		41.00		44.00		44.00		44.00	
DEPTH TO INVERT	1.666		3.263		2.608		3.885				2.021		2.429		3.456		3.476		2.348	
H.G.L. LEVELS 1 in 20 Year ARI	56.51	56.514	56.329	56.33	56.119	56.119	56.329	56.33	56.119	56.119	56.329	56.33	56.119	56.119	56.329	56.33	56.119	56.119	56.329	56.33
INVERT R.L.	56.335	56.335	55.987	55.987	55.700	55.700	55.987	55.987	55.700	55.700	55.987	55.987	55.700	55.700	55.987	55.987	55.700	55.700	55.987	55.987
SURFACE R.L.	57.900	57.901	57.486	57.486	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821	56.821
PIPE CHAINAGE	0.000	15.000	0.000	9.970	15.000	15.000	0.000	4.470	15.000	15.000	0.000	56.873	56.873	98.907	183.272	198.336	232.853	0.000	15.965	26.002

LINE O03 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE O04 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE O05 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE O06 HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1
LINE P HORIZONTAL SCALE 1:500 @ A1 VERTICAL SCALE 1:100 @ A1



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SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	SY	SY
REVISION	AMENDMENT	DRAWN	DESIGNED

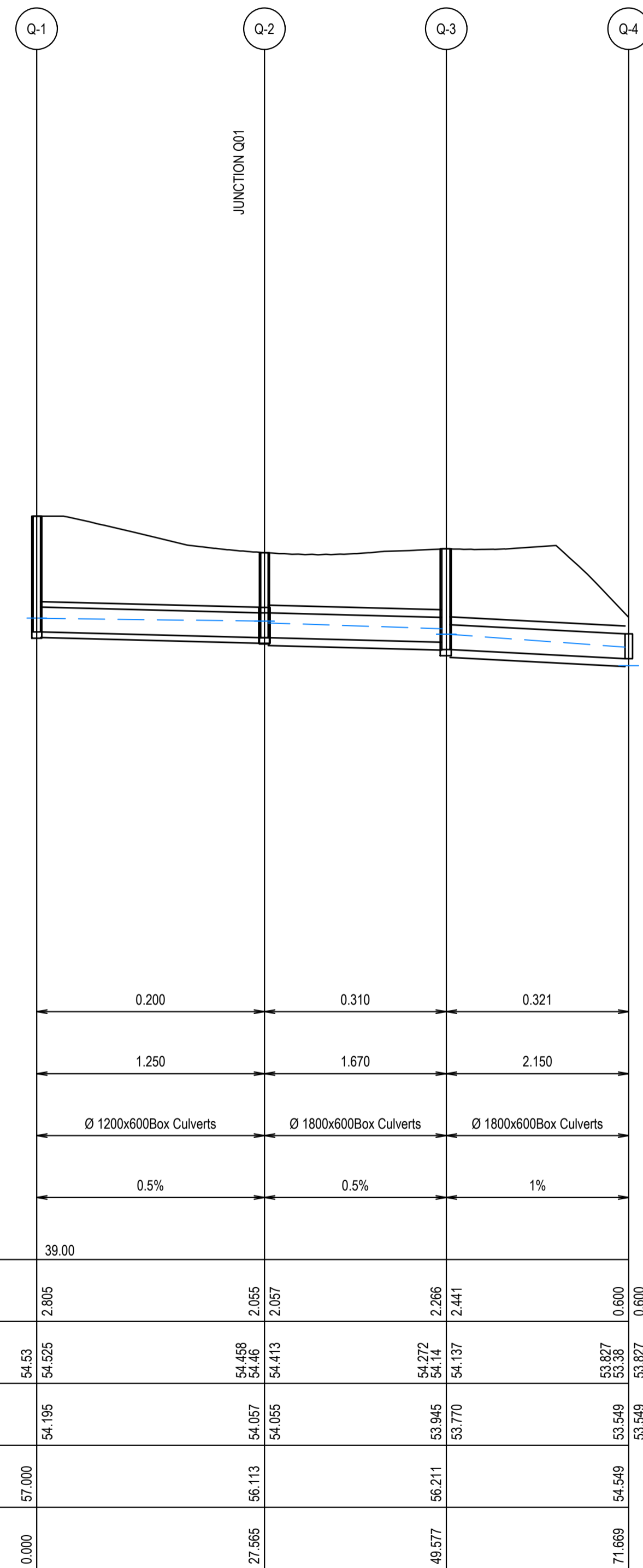
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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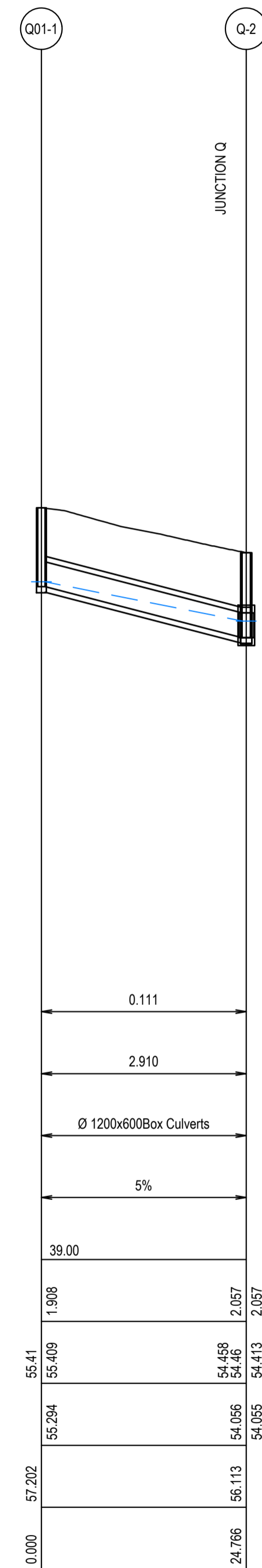


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Title
STORMWATER LONGITUDINAL SECTIONS
SHEET 24 OF 25

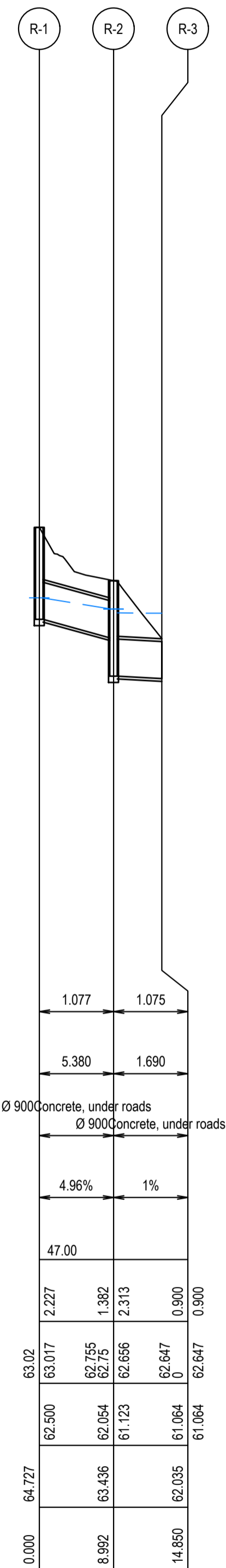
Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale @A1	AS NOTED
Drawing number	240518_DA_C283			Revision	03



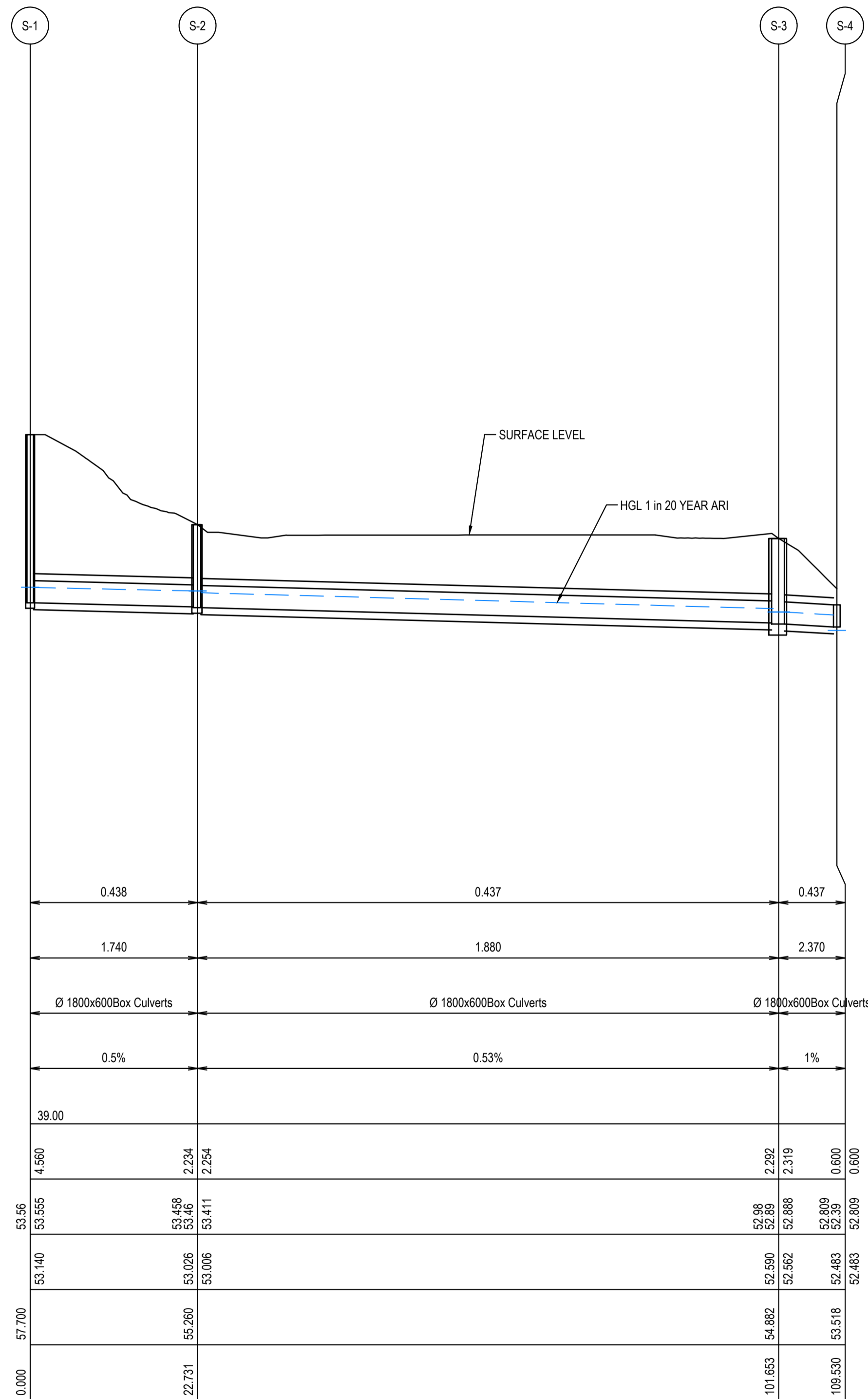
LINE Q
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



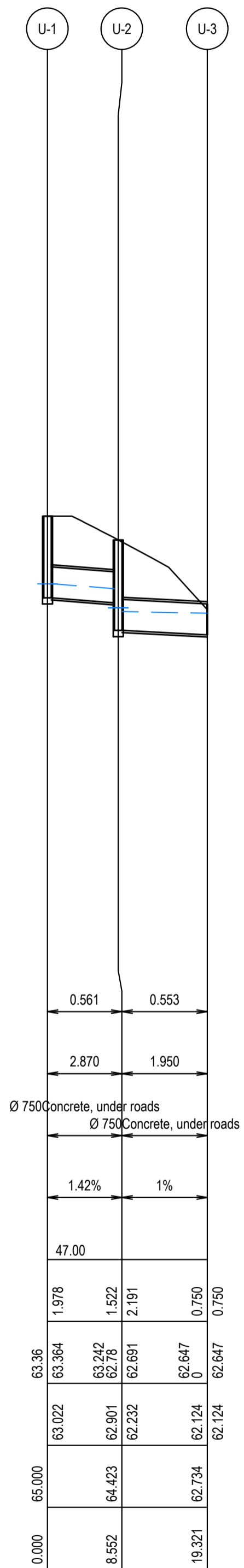
LINE Q01
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



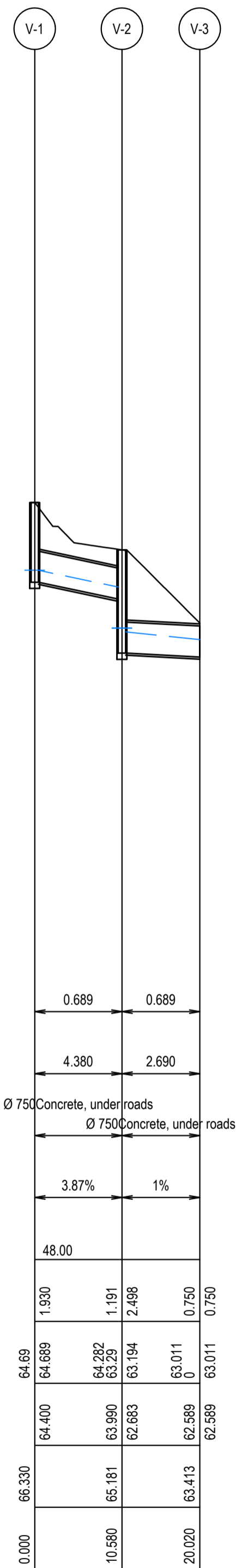
LINE R
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VERTICAL SCALE 1:100 @ A1



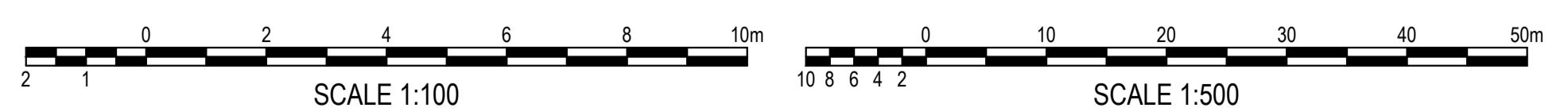
LINE S
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



LINE U
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

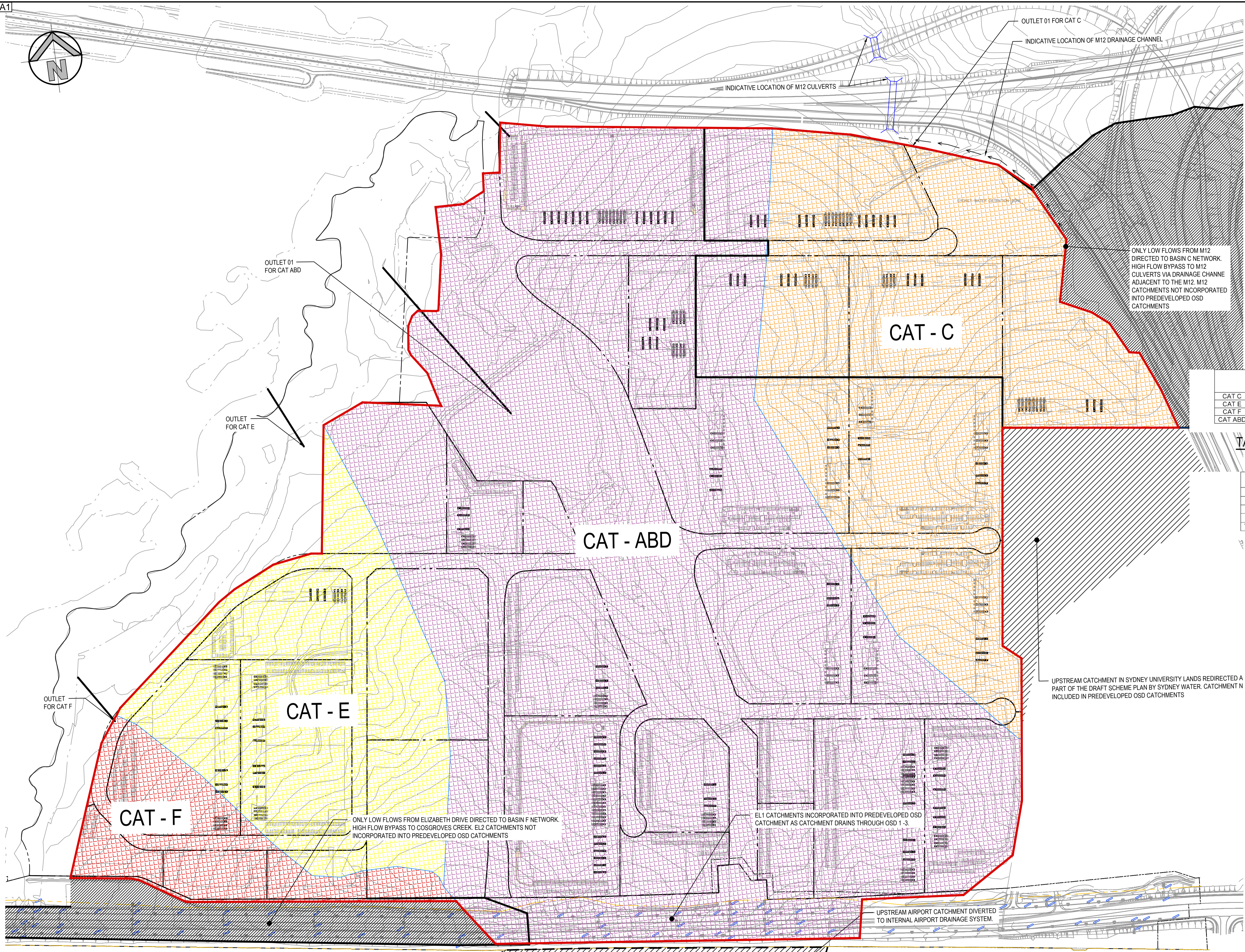
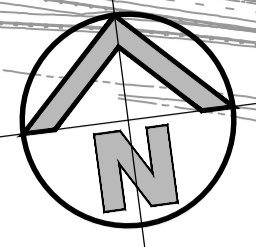


LINE V
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



ISSUED FOR SSDA

SURVEY INFORMATION				Client: HB&B Property Pty and ISPT Pty Ltd				Suite 2.01 828 Pacific Highway Gordon NSW 2072				Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hiconsult.com.au Web: www.henryandhymas.com.au				Project: BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW				Drawn: L.Caha Checked: N.Wetzlar				Designed: N.Wetzlar Approved: A.Francis				Original issue date: 45413 Scale @A1 AS NOTED			
SURVEYED BY: LTSL				Architect / Surveyor: NETTLETONTRIBE												Title: STORMWATER LONGITUDINAL SECTIONS SHEET 25 OF 25				Drawing number: 240518_DA_C284				Revision: 03							
DATUM: AHD				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				DRAWING TO BE PRINTED IN COLOUR				henry&hymas																			
ORIGIN OF LEVELS: PMZ5501, RL59.659																															
REVISION				AMENDMENT				DRAWN				DESIGNED				DATE															
03				ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				JG				NW				06.06.2025															
02				ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				MP				SY				31.10.2024															
01				ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				SY				SY				15.10.2024															



- LEGEND**
- PROPOSED BOUNDARY
 - EXISTING SITE BOUNDARY
 - PROPOSED ROAD BOUNDARY
 - PROPOSED LOT BOUNDARY
 - ENZ BOUNDARY (INDICATIVE)
 - FLOOD EXTENT 1% AEP COSGROVES CREEK

IMPORTANT NOTE: REFER C252 FOR CATCHMENT BREAKDOWN

- CATCHMENTS**
- STUDY AREA
 - CATCHMENT ABD (893347m²)
 - CATCHMENT C (335370m²)
 - CATCHMENT E 196470m²)
 - CATCHMENT F (73530m²)

ONLY LOW FLOWS FROM M12 DIRECTED TO BASIN C NETWORK. HIGH FLOW BYPASS TO M12 CULVERTS VIA DRAINAGE CHANNE ADJACENT TO THE M12. M12 CATCHMENTS NOT INCORPORATED INTO PREDEVELOPED OSD CATCHMENTS

OUTLET 01 FOR CAT C

INDICATIVE LOCATION OF M12 CULVERTS

OUTLET 01 FOR CAT C

INDICATIVE LOCATION OF M12 DRAINAGE CHANNEL

OUTLET FOR CAT E

OUTLET FOR CAT F

	Predevelopment Flow Rate 20% AEP Storm Event (m ³ /s)	Predevelopment Flow Rate 5% AEP Storm Event (m ³ /s)	Predevelopment Flow Rate 1% AEP Storm Event (m ³ /s)
CAT C	2.01	4.28	7.04
CAT E	1.17	2.53	4.23
CAT F	0.45	0.971	1.62
CAT ABD	4.00	8.93	15

TABLE: PREDEVELOPMENT FLOW RATES

	Predevelopment Catchment Area (ha)	Post development Catchment Area (ha)	DIFFERENCE
ABD	89.33	97.01	+9%
C	33.53	23.81	-29%
E	19.64	17.10	-13%
F	7.35	7.35	+0%
TOTAL	149.85	145.2771	-3%

TABLE: PREDEVELOPMENT VS POSTDEVELOPMENT CATCHMENT AREAS

CAT - ABD

CAT - C

CAT - E

CAT - F

ONLY LOW FLOWS FROM ELIZABETH DRIVE DIRECTED TO BASIN F NETWORK. HIGH FLOW BYPASS TO COSGROVES CREEK. EL2 CATCHMENTS NOT INCORPORATED INTO PREDEVELOPED OSD CATCHMENTS

EL1 CATCHMENTS INCORPORATED INTO PREDEVELOPED OSD CATCHMENT AS CATCHMENT DRAINS THROUGH OSD 1-3

UPSTREAM CATCHMENT IN SYDNEY UNIVERSITY LANDS REDIRECTED A PART OF THE DRAFT SCHEME PLAN BY SYDNEY WATER. CATCHMENT N INCLUDED IN PREDEVELOPED OSD CATCHMENTS

UPSTREAM AIRPORT CATCHMENT DIVERTED TO INTERNAL AIRPORT DRAINAGE SYSTEM.

PRE-DEVELOPMENT CATCHMENT PLAN

SCALE 1:3000

ISSUED FOR SSDA

SURVEY INFORMATION

SURVEYED BY:
LTSL

DATUM: AHD

ORIGIN OF LEVELS:
PMZ5501, RL59.659

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MP	SY	31.10.2024					

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
NETTLETONTRIBE

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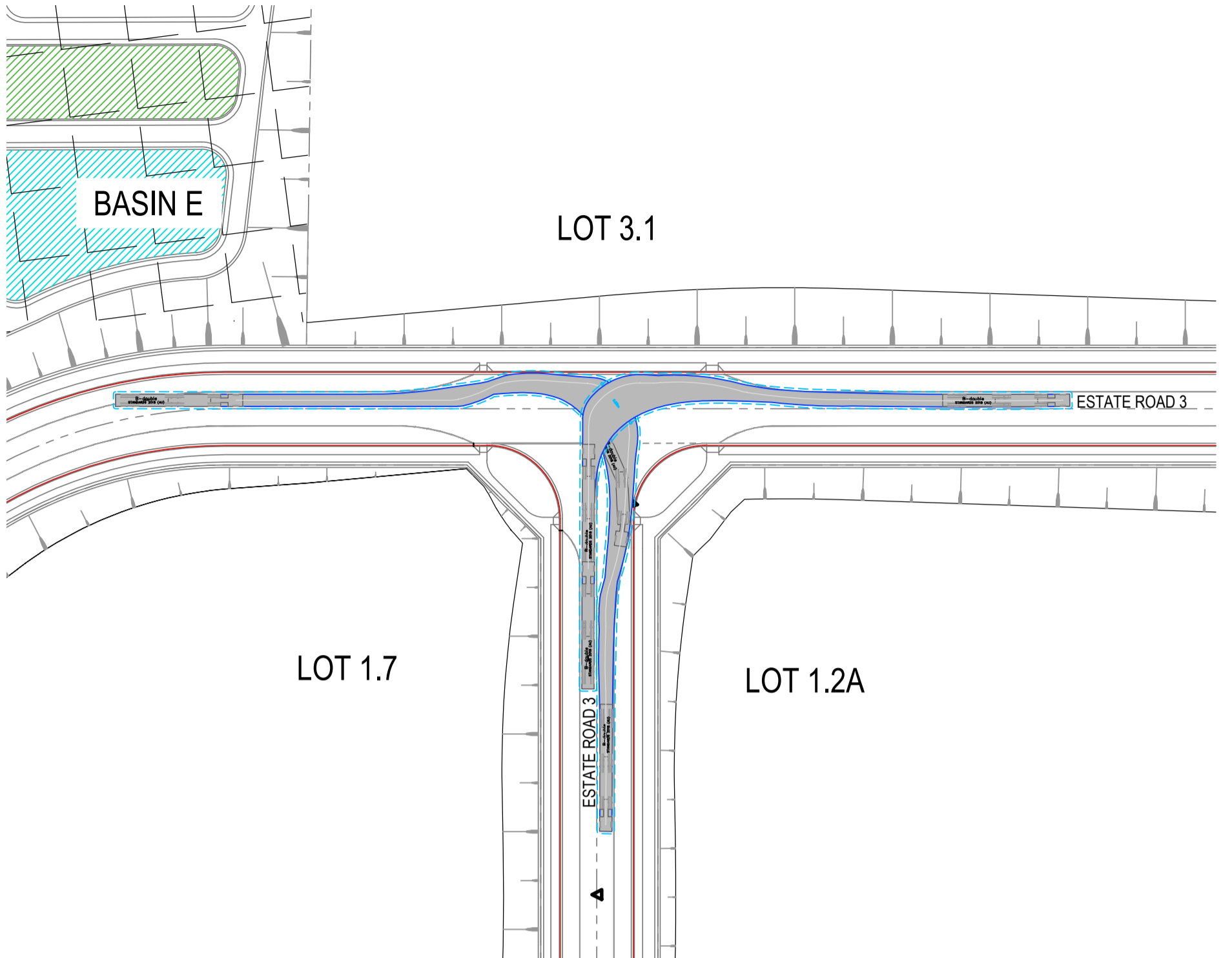
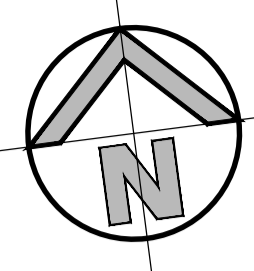
henry&hymas



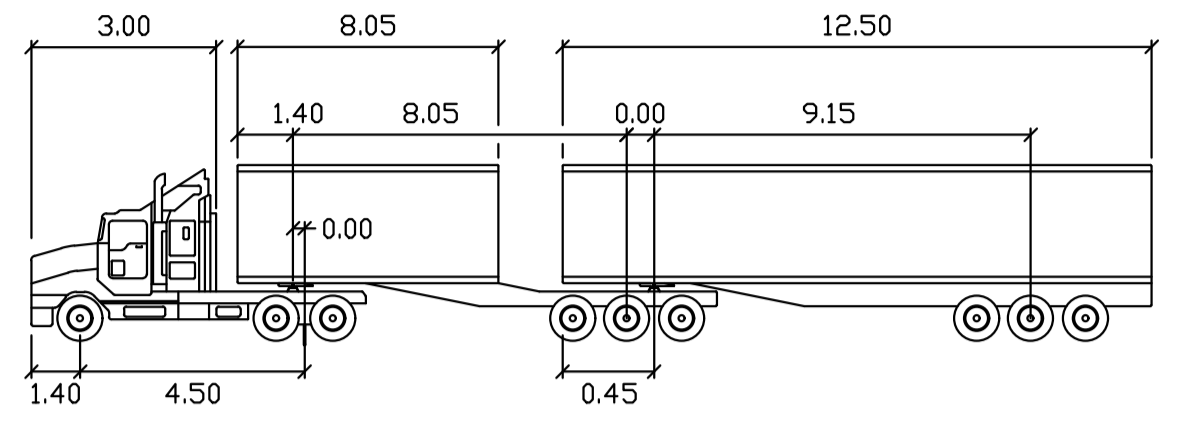
Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
MASTER PLAN PRE-DEVELOPMENT OSD CATCHMENT PLAN

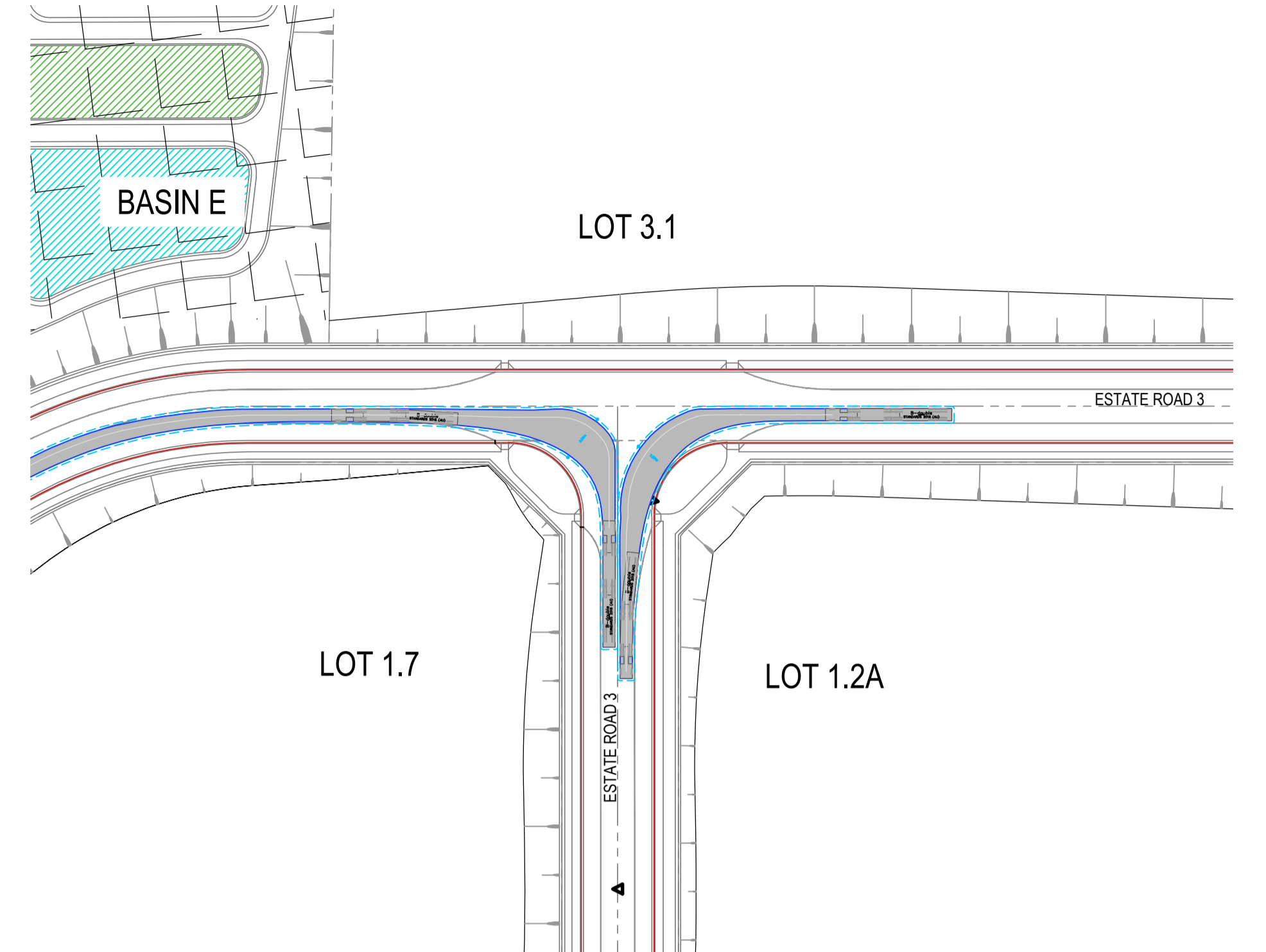
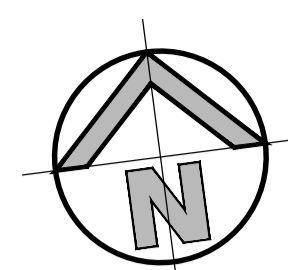
Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale B/A1 1:3000
Drawing number 240518_DA_C290	Revision 02	



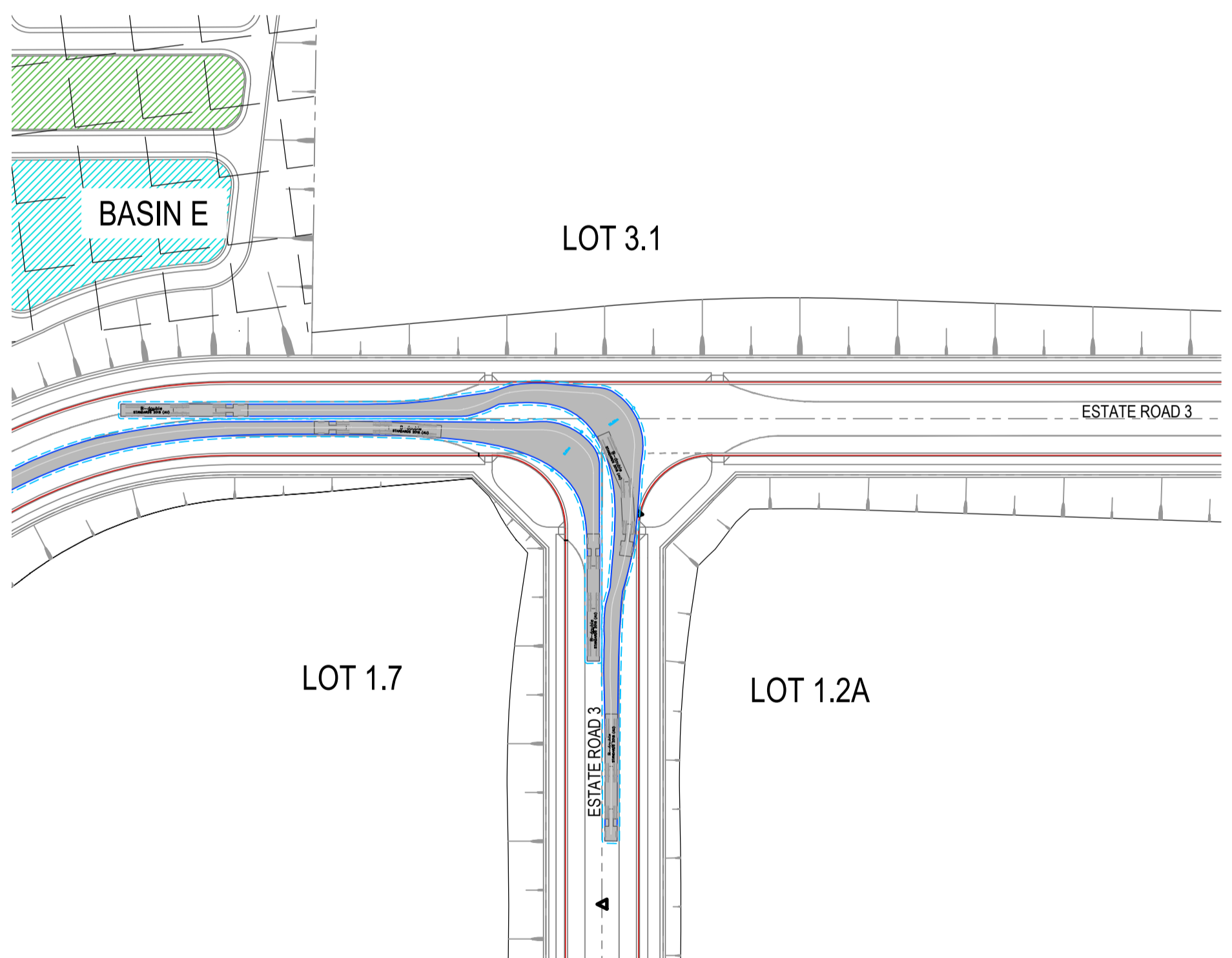
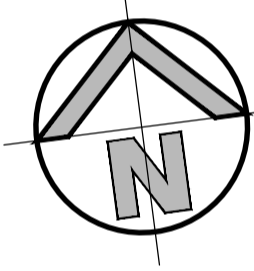
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26m B-DOUBLE
 SCALE 1:1000



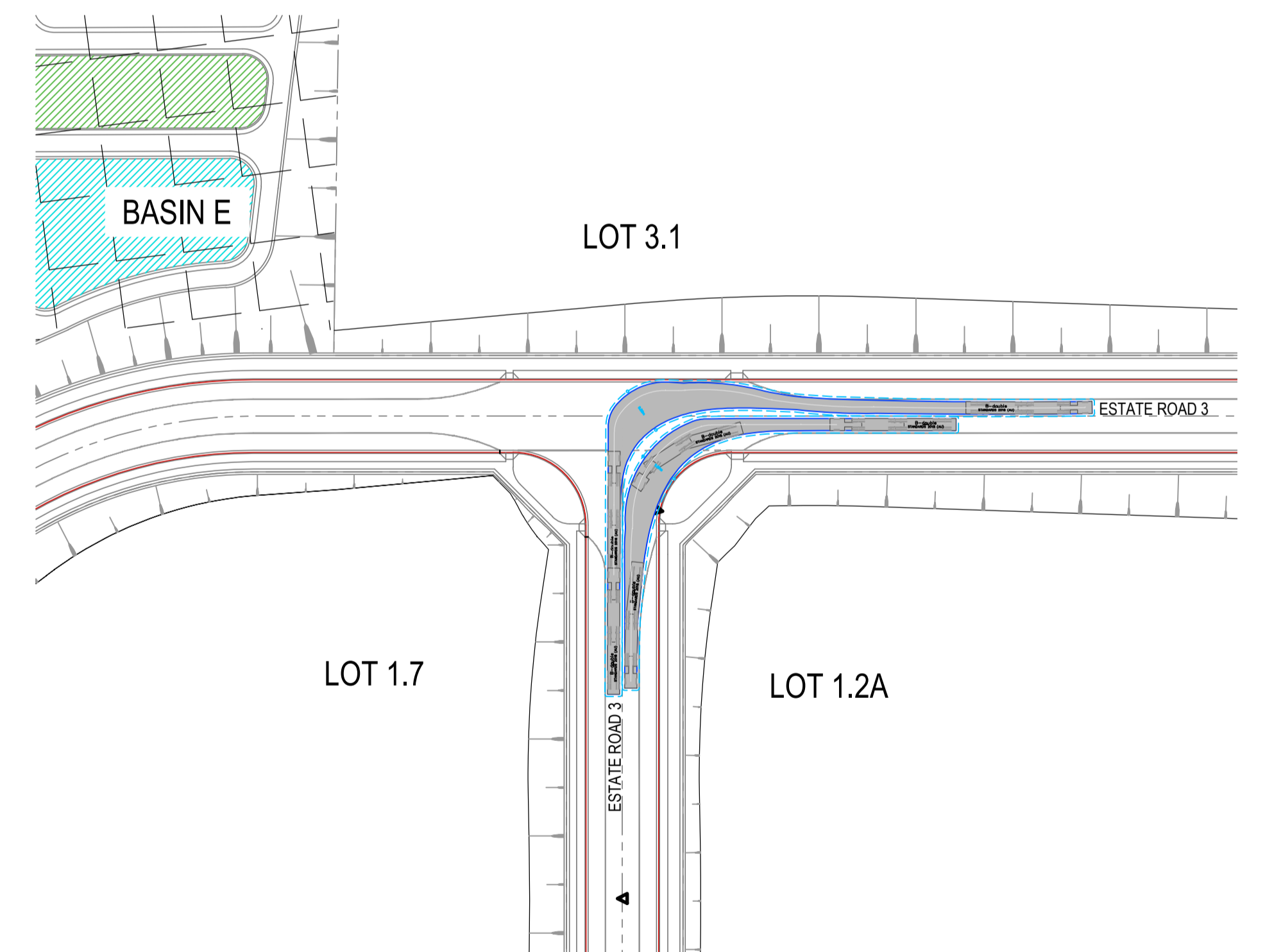
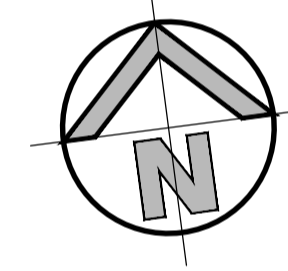
B-double
 meters
 Tractor Width : 2.50 Lock to Lock Time : 6.0
 Trailer Width : 2.50 Steering Angle : 23.4
 Tractor Track : 2.50 Articulating Angle : 70.0
 Trailer Track : 2.50
26m B-DOUBLE
 N.T.S.



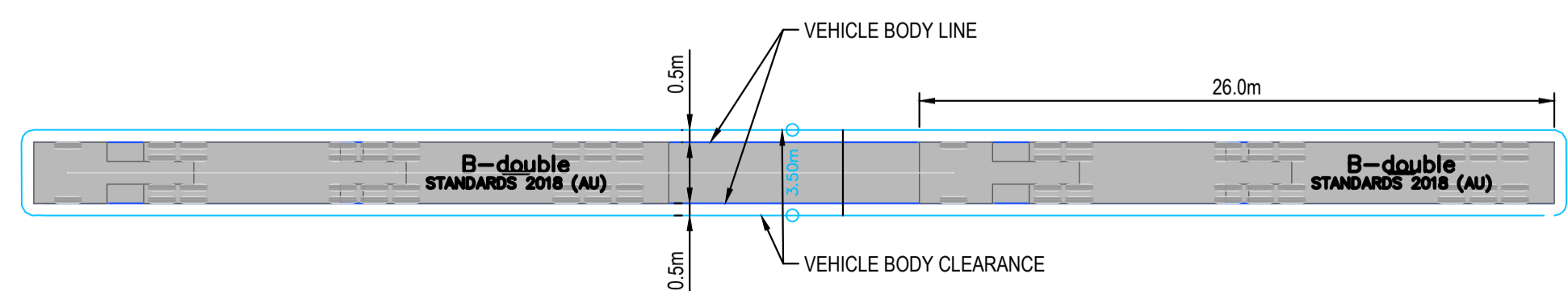
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26m B-DOUBLE
 SCALE 1:1000



TURNING MOVEMENT No. 07
26m B-DOUBLE
 SCALE 1:1000



TURNING MOVEMENT No. 08
26m B-DOUBLE
 SCALE 1:1000



LEGEND

ISSUED FOR SSSA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PMZ5501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DRAFT	JG	NW	30.09.25
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024
01	ISSUED FOR CONCEPT	LC	NW	16.08.2024

Client HB&B Property Pty and ISPT Pty Ltd	
Architect / Surveyor NETTLETONTRIBE	
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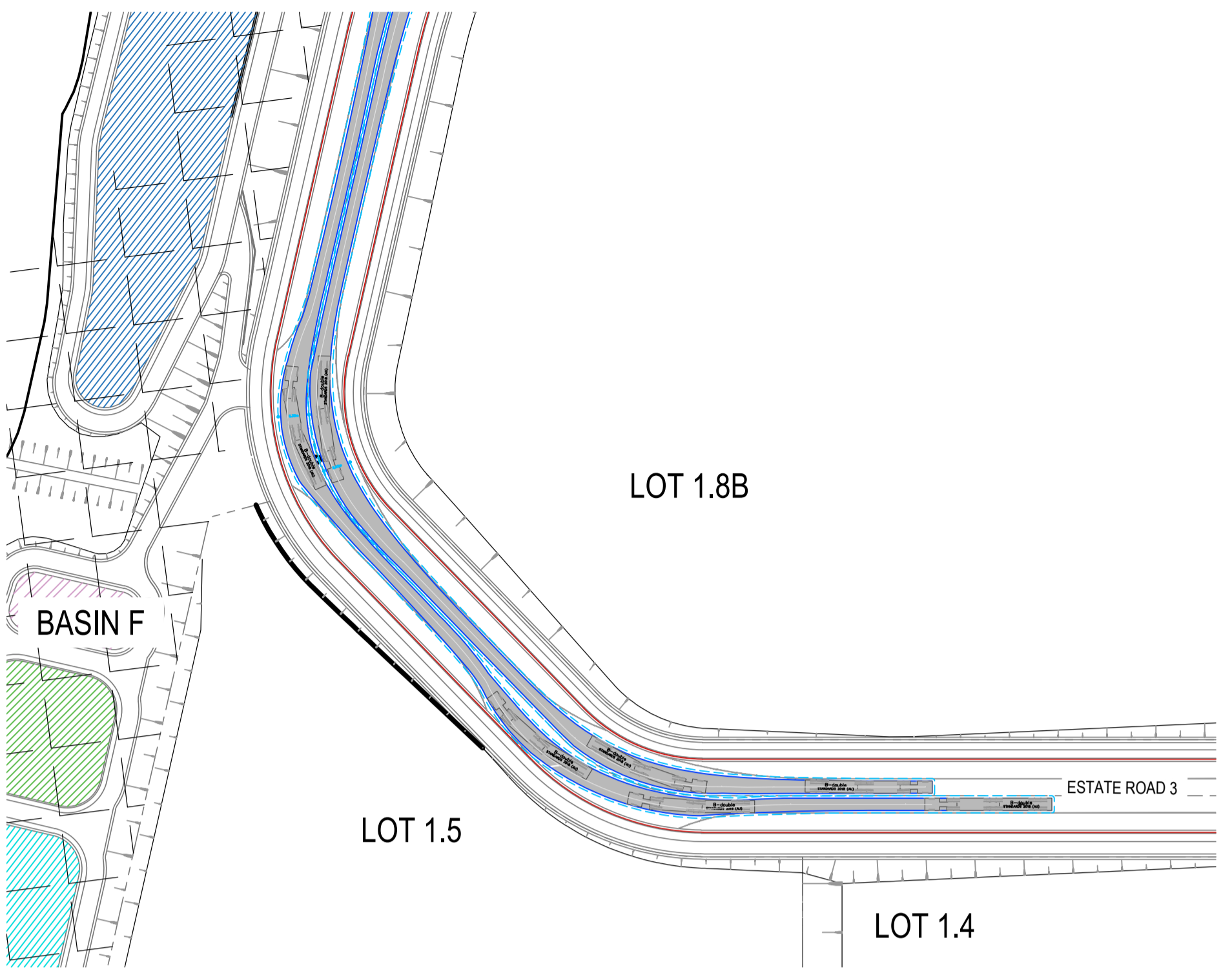
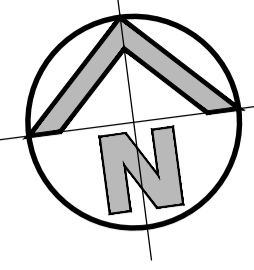
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoonsuit.com.au Web www.henryandhymas.com.au
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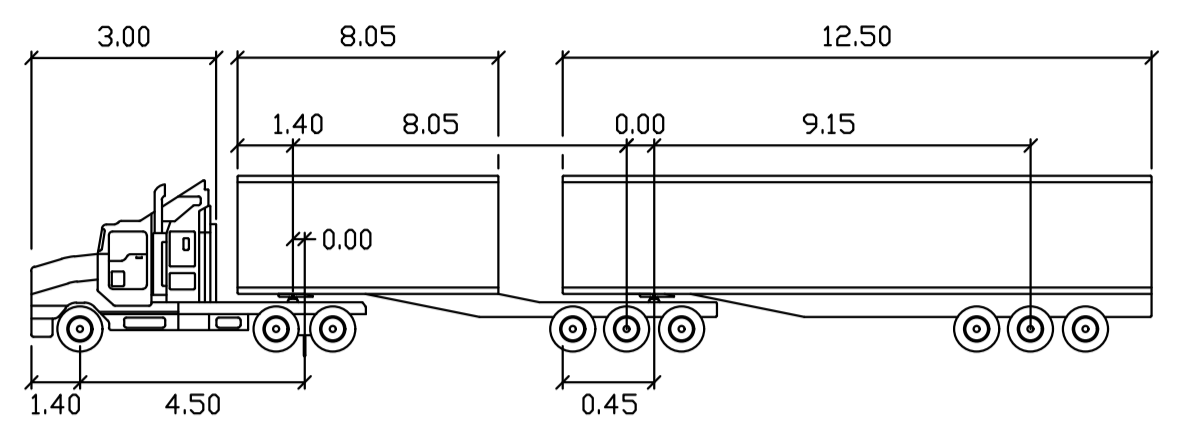
Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title 26m B-DOUBLE TURNING PATH SHEET 2 OF 9

Drawn L.Caha	Designed N.Wetzlar	Original issue date May-24
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:1000
Drawing number 240518_DA_C652		Revision 03

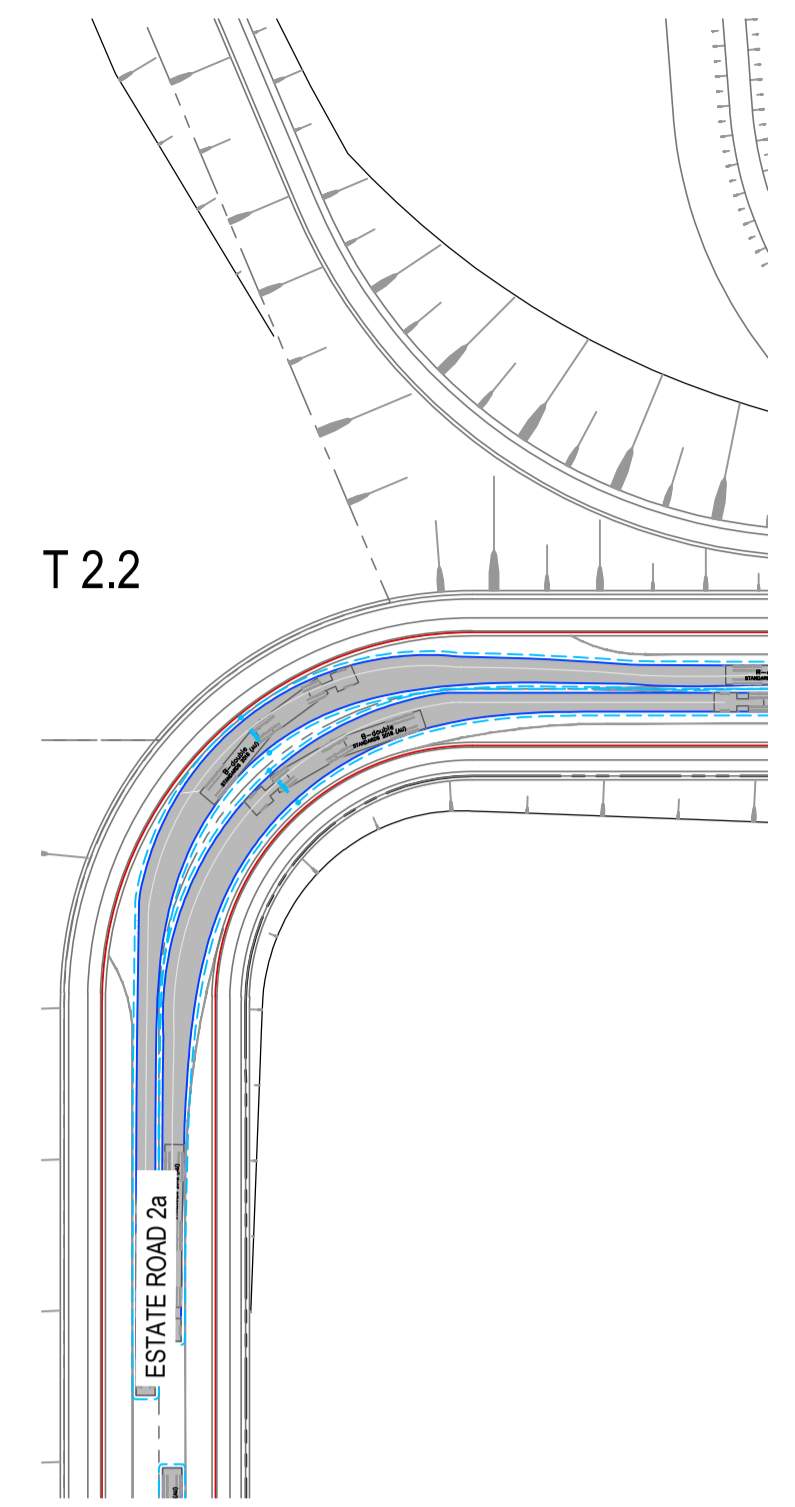
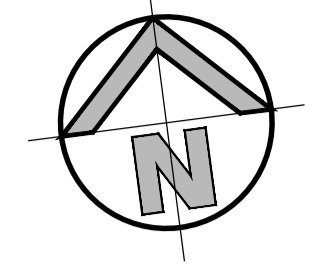
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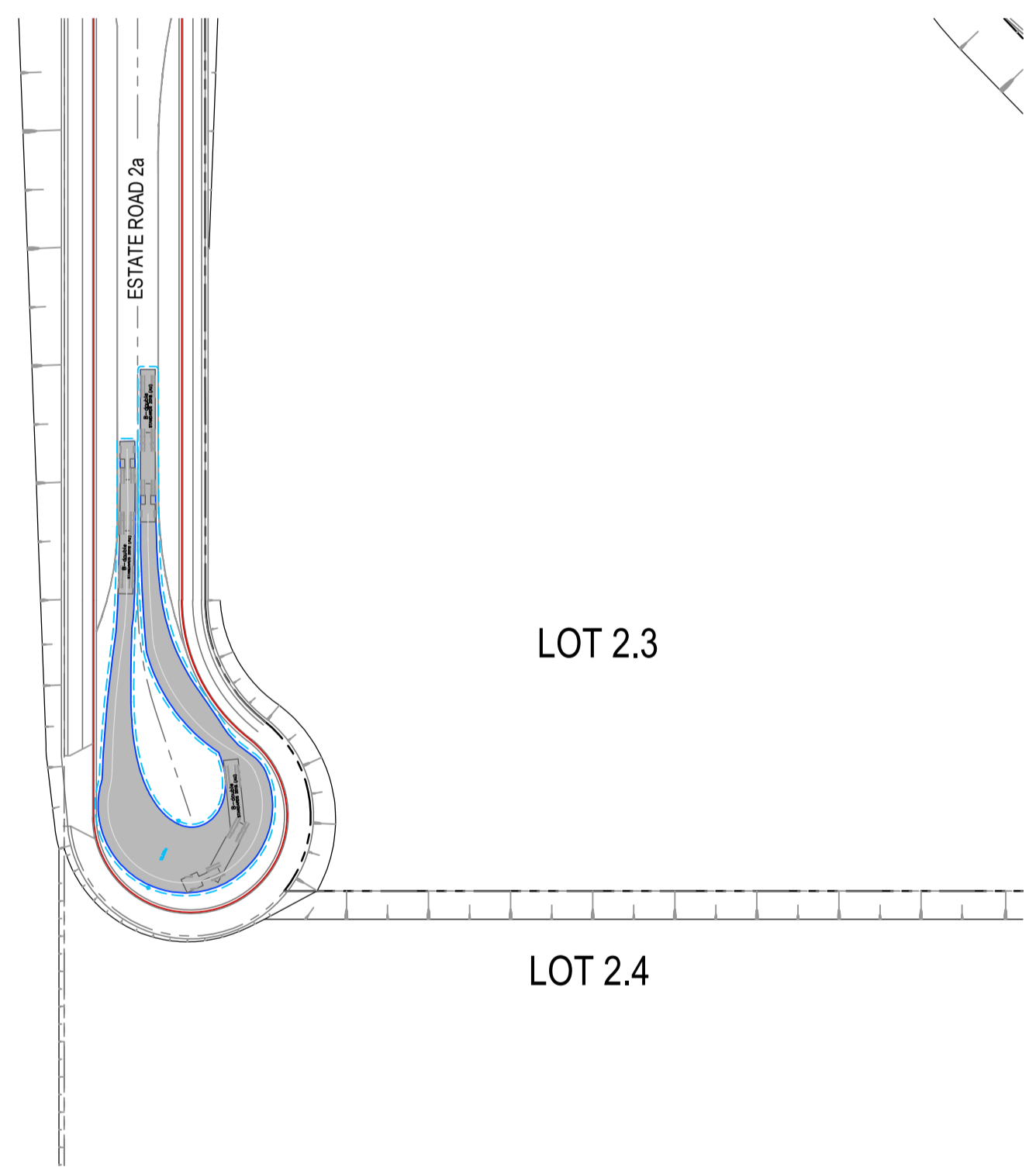
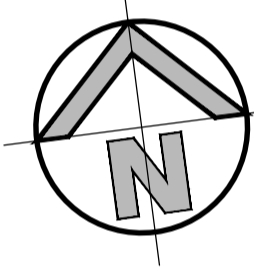
TURNING MOVEMENT No. 09
26m B-DOUBLE
 SCALE 1:1000



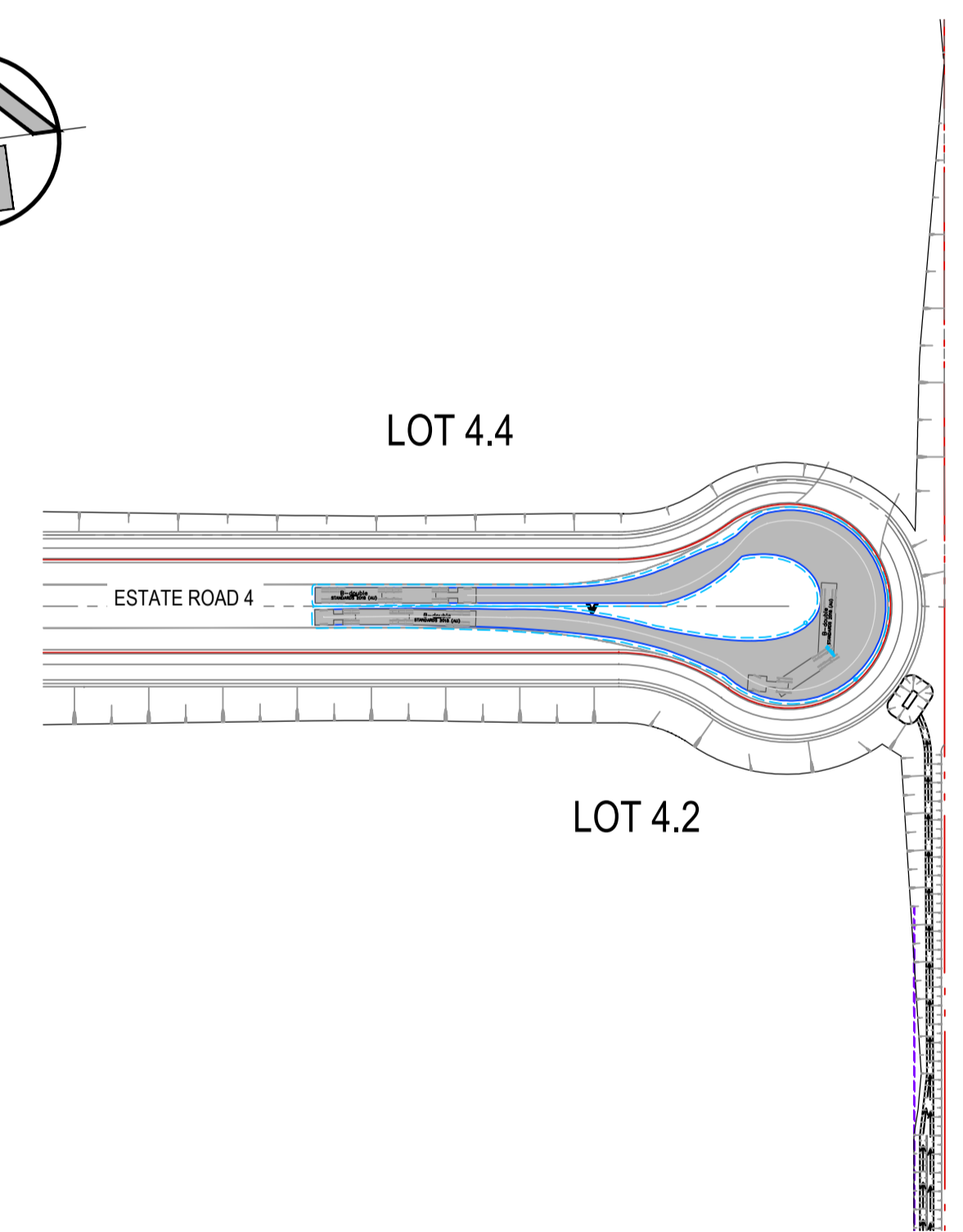
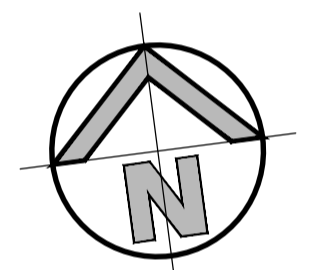
B-double
 meters
 Tractor Width : 2.50
 Trailer Width : 2.50
 Tractor Track : 2.50
 Trailer Track : 2.50
 Lock to Lock Time : 6.0
 Steering Angle : 23.4
 Articulating Angle : 70.0
26m B-DOUBLE
 N.T.S



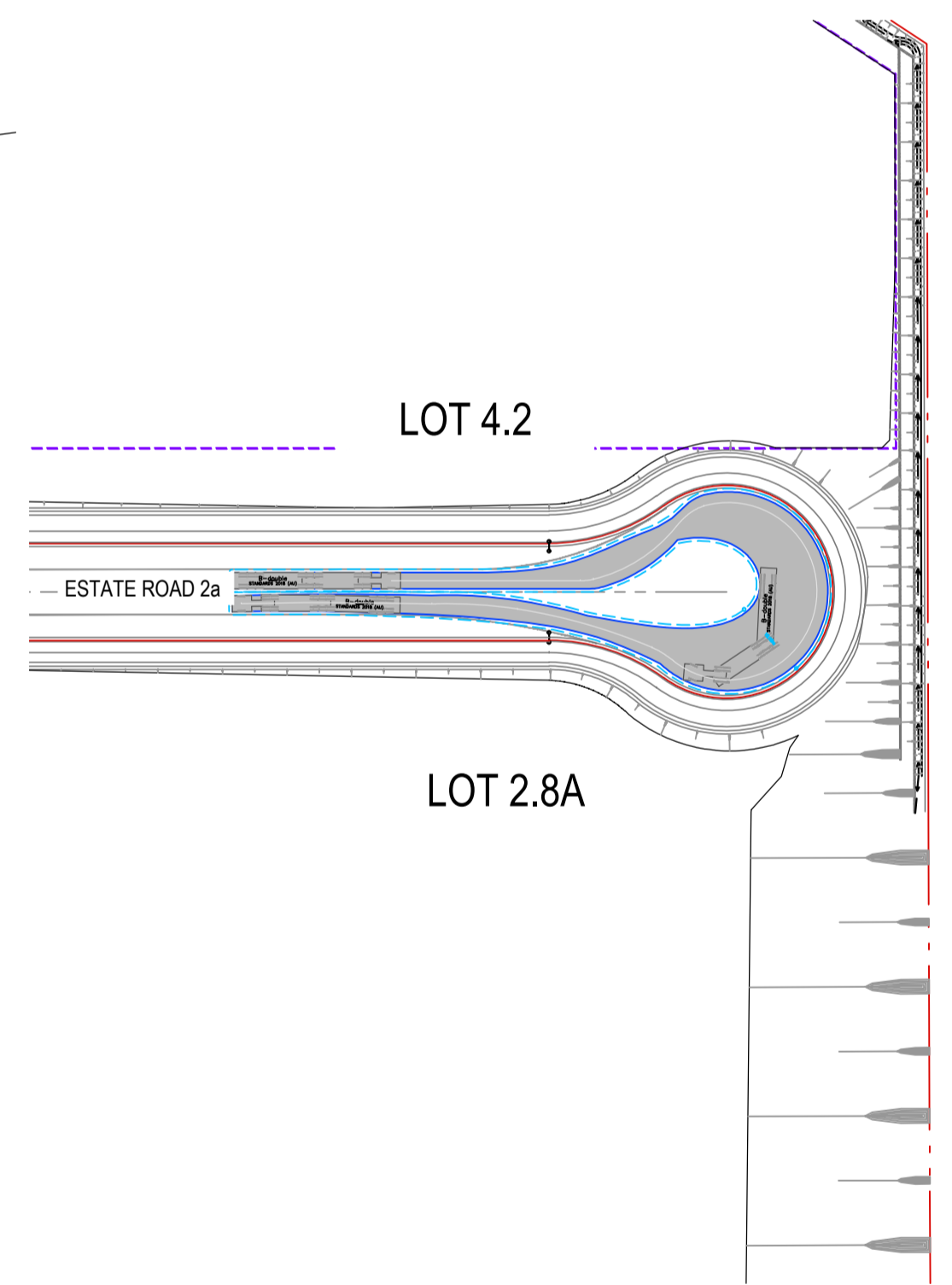
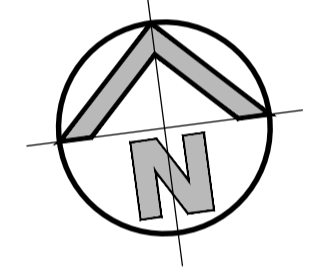
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26m B-DOUBLE
 SCALE 1:1000



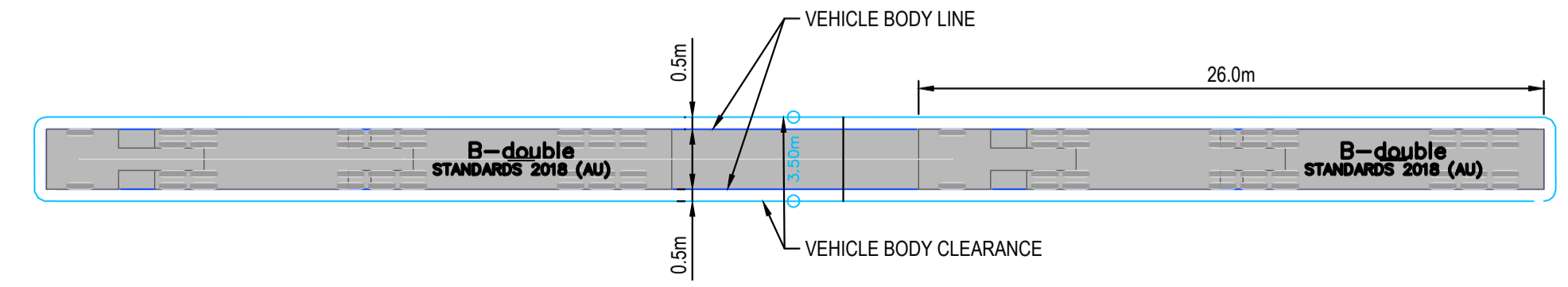
TURNING MOVEMENT No. 11
26m B-DOUBLE
 SCALE 1:1000



TURNING MOVEMENT No. 12
26m B-DOUBLE
 SCALE 1:1000



TURNING MOVEMENT No. 13
26m B-DOUBLE
 SCALE 1:1000



LEGEND

ISSUED FOR SSSA

P:\p\240518\240518-DA-C653-1-1-2024\240518-DA-C653-1-1-2024.dwg - 240518-DA-C653-1-1-2024.dwg - 240518-DA-C653-1-1-2024.dwg

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PMZ5501, RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED
03	ISSUED FOR DRAFT	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY
01	ISSUED FOR CONCEPT	LC	NW
REVISION	AMENDMENT	DRAWN	DESIGNED

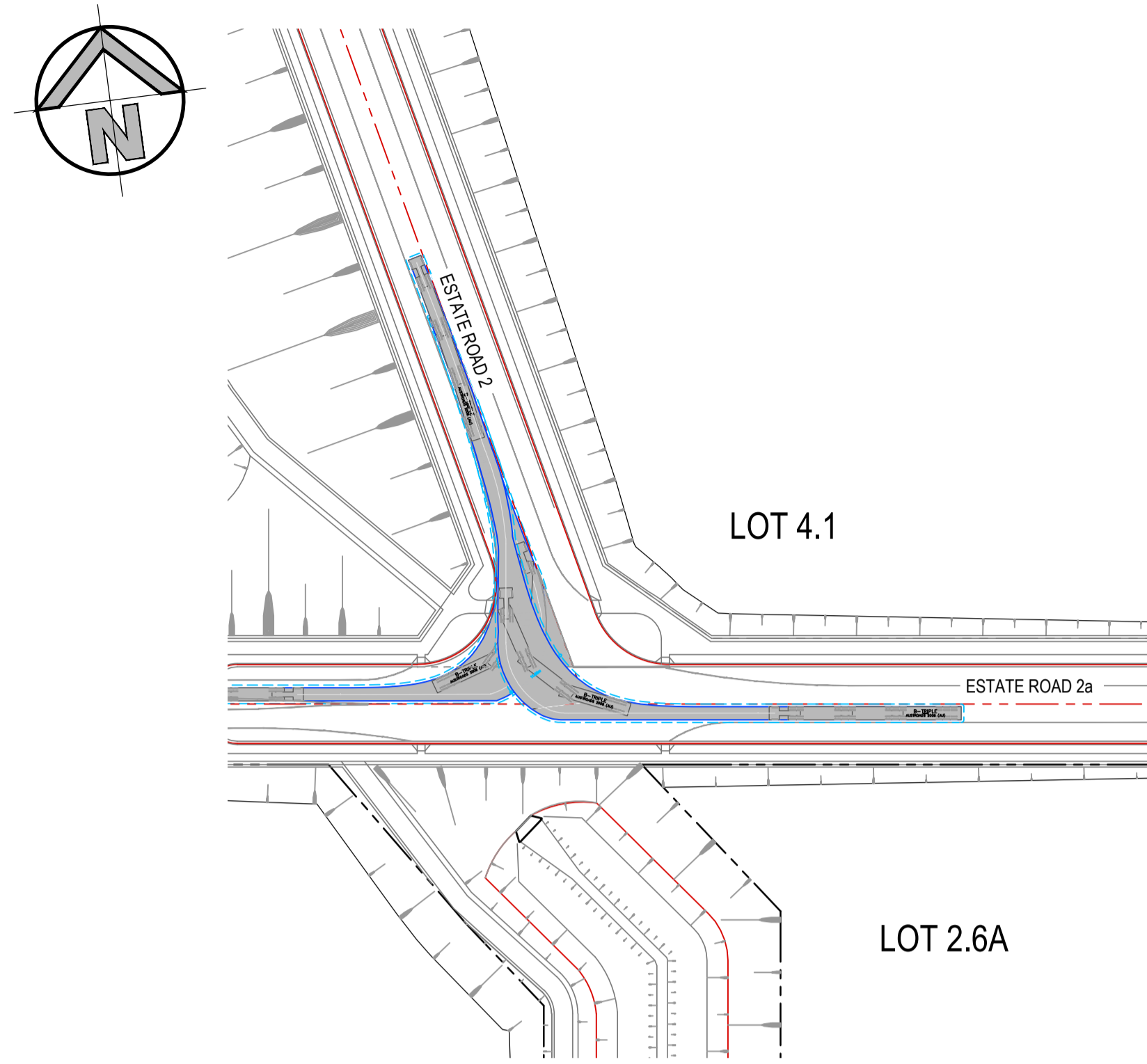
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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DRAWING TO BE PRINTED IN COLOUR	

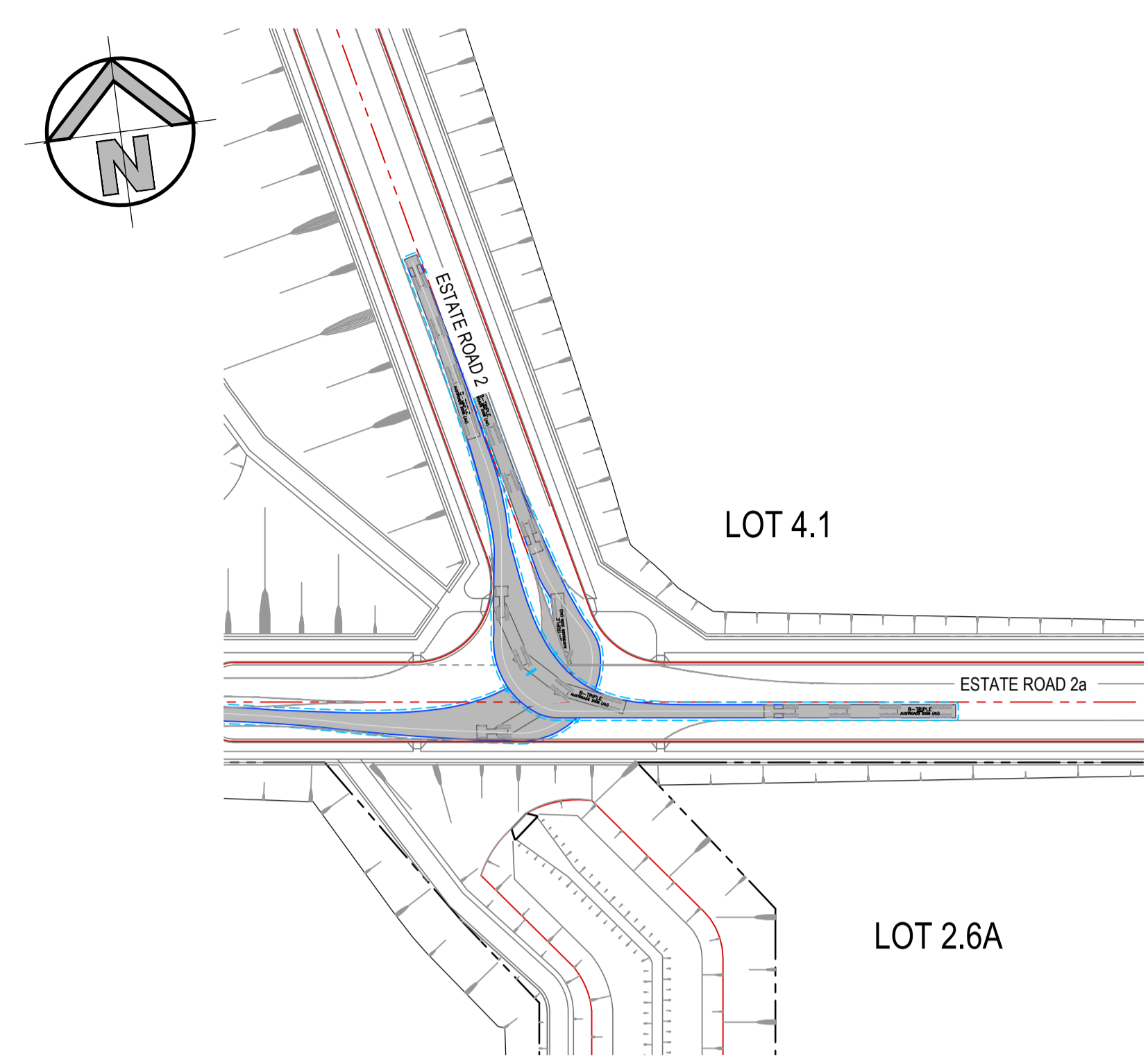
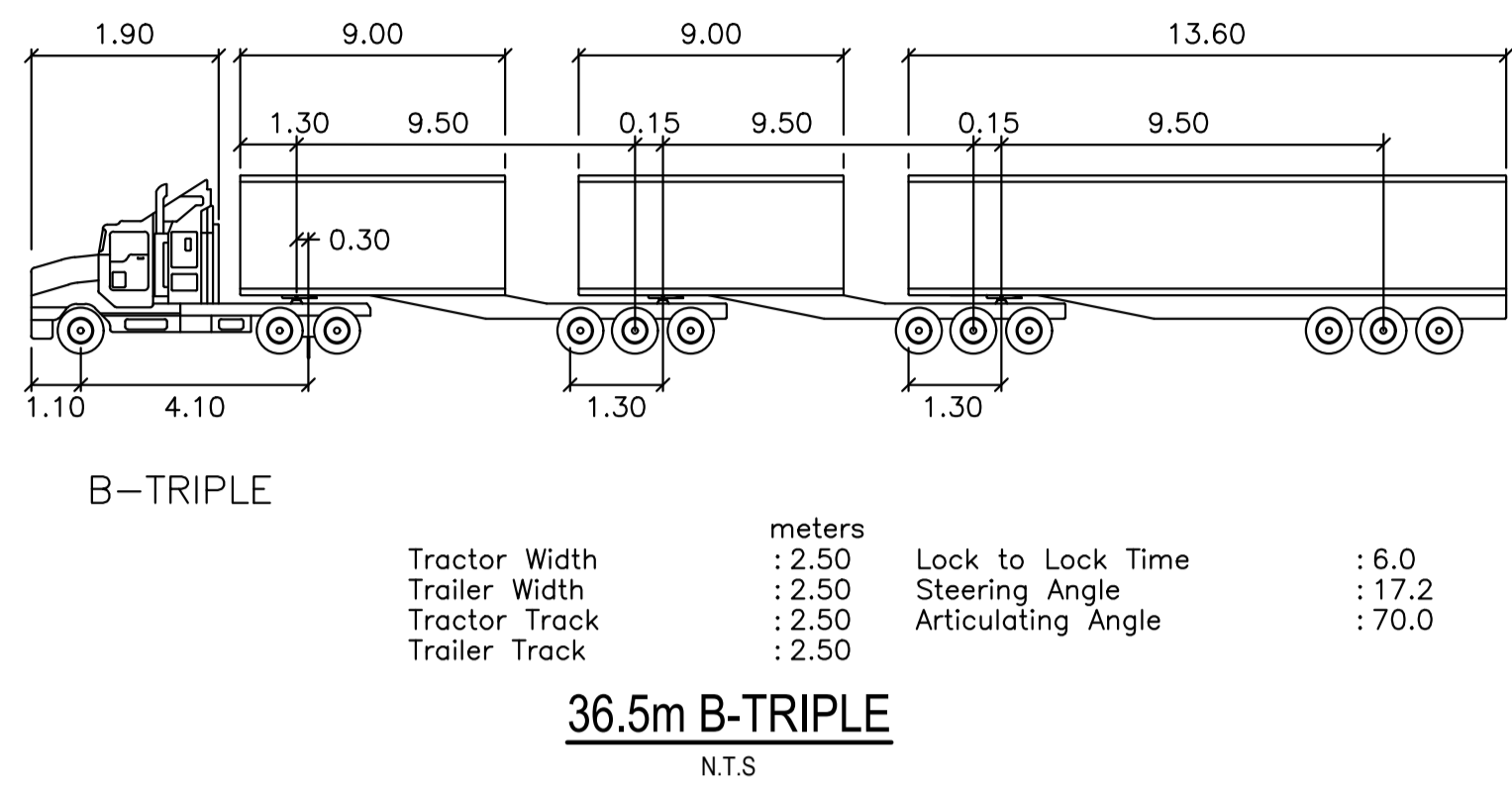


Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title	26m B-DOUBLE TURNING PATH SHEET 3 OF 9

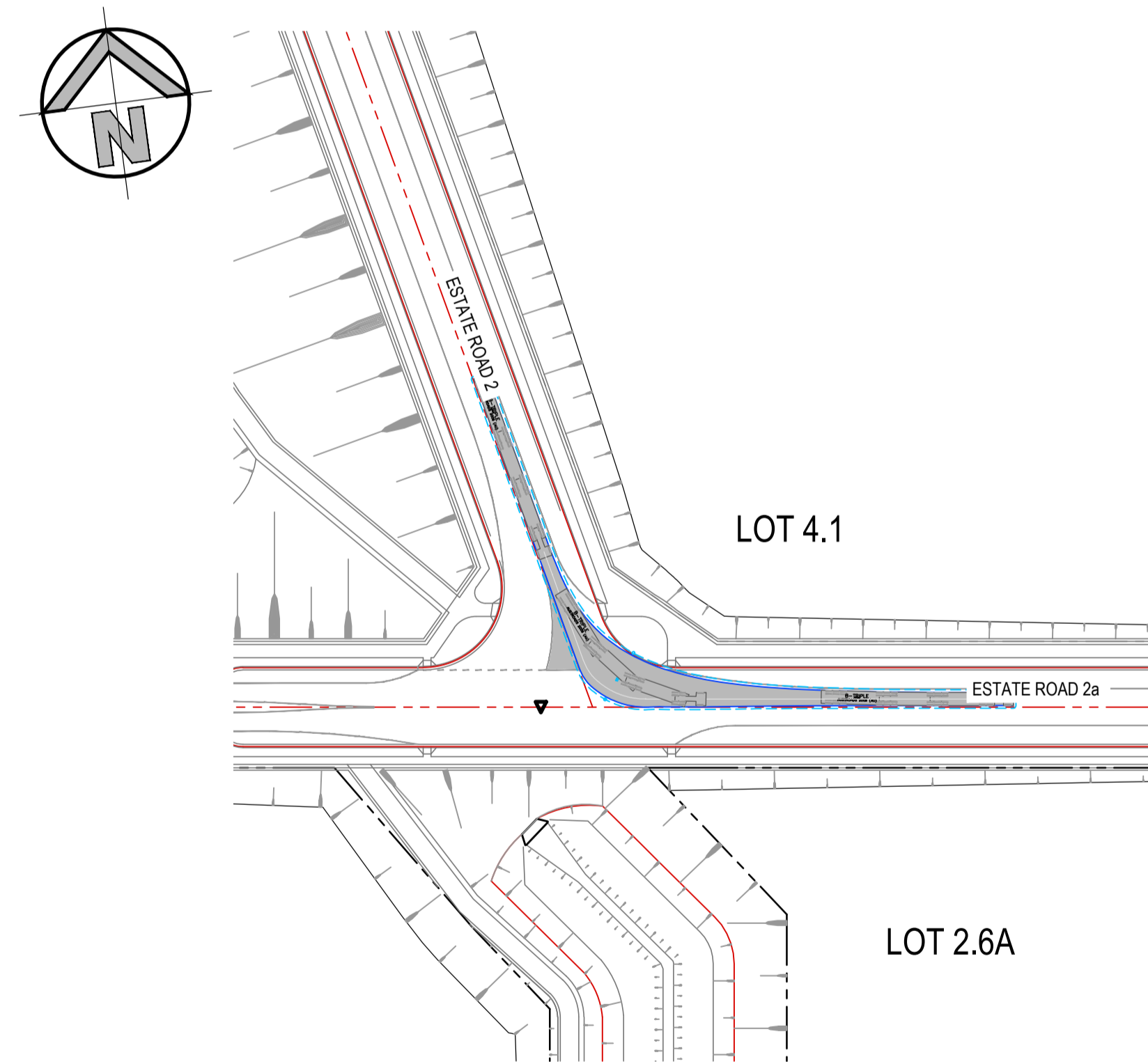
Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	May-24
Checked	N.Wetzlar	Approved	A.Francis	Scale	1:1000
Drawing number	240518_DA_C653			Revision	03



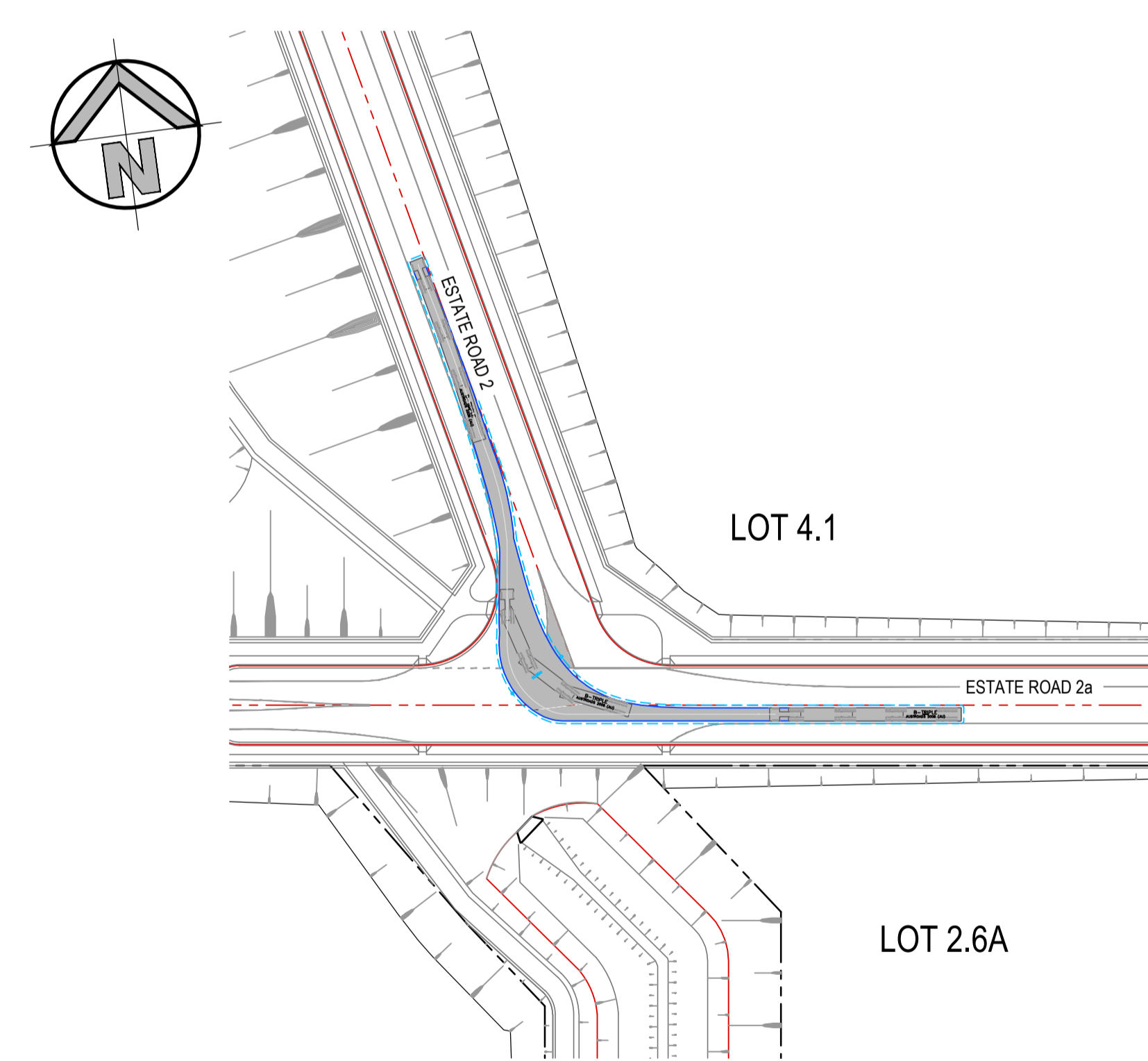
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36.5m B-TRIPLE
 SCALE 1:1000



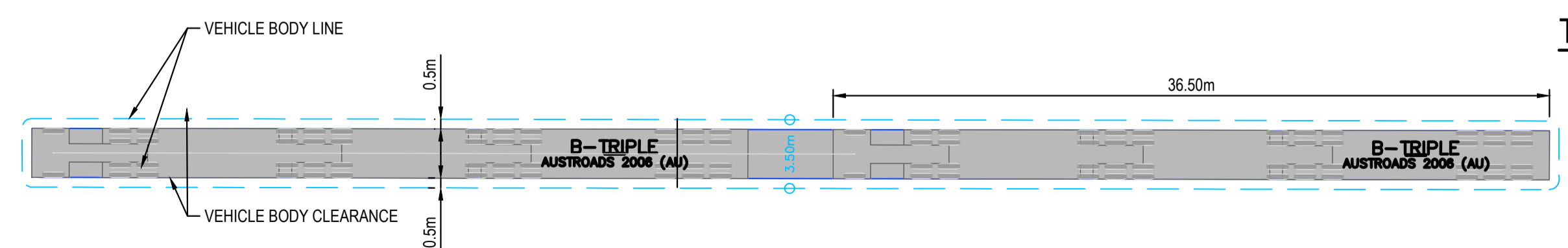
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36.5m B-TRIPLE
 SCALE 1:1000



TURNING MOVEMENT No. 17
36.5m B-TRIPLE
 SCALE 1:1000



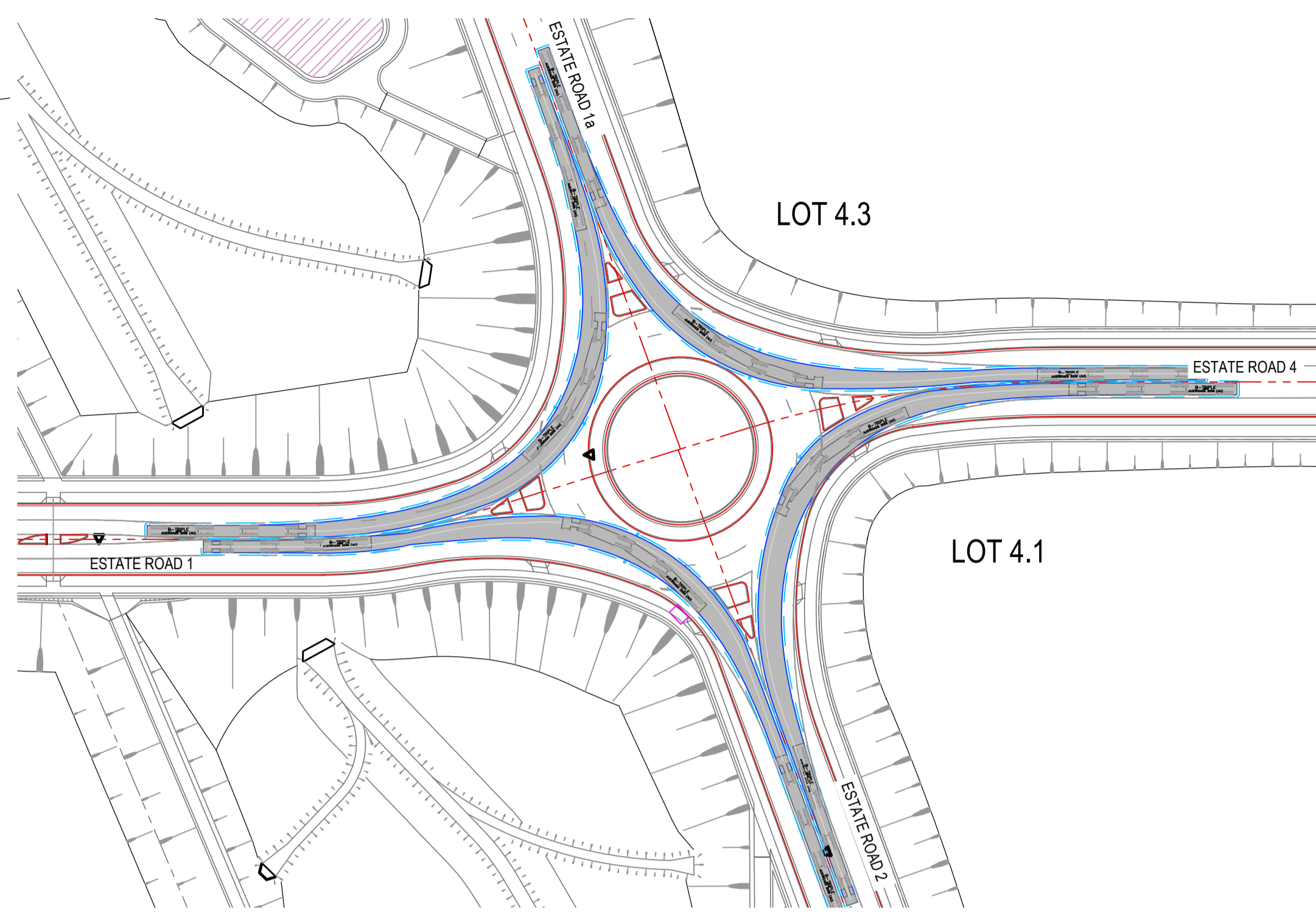
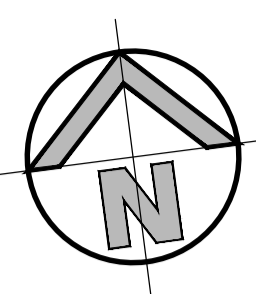
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36.5m B-TRIPLE
 SCALE 1:1000



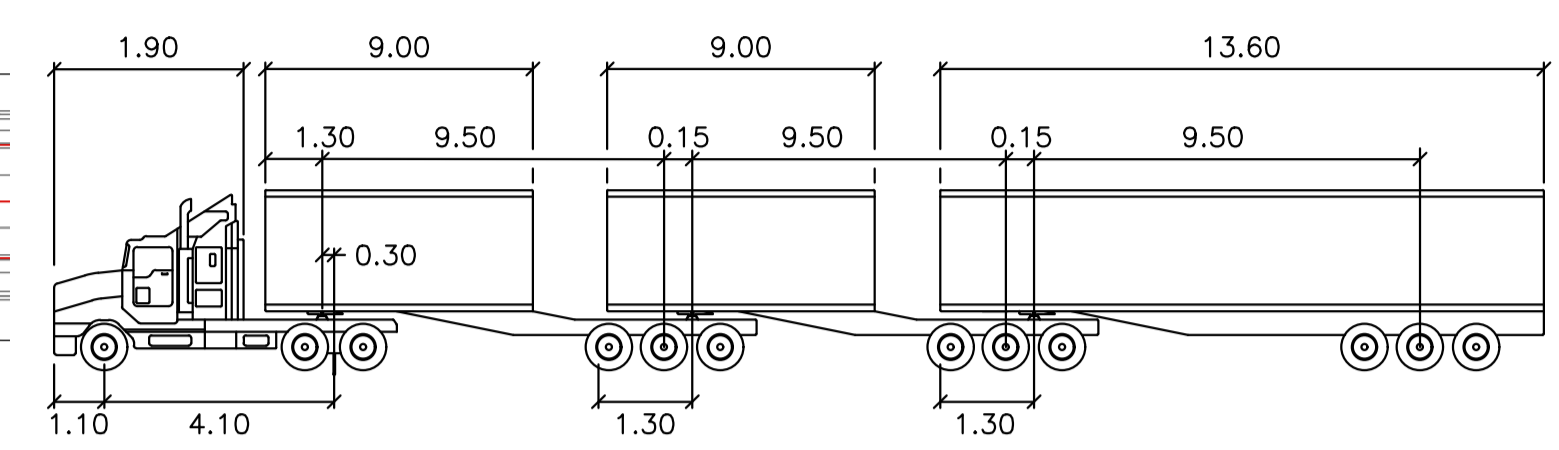
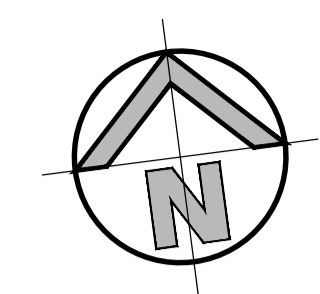
LEGEND

ISSUED FOR SSDA

SURVEY INFORMATION				Client HB&B Property Pty and ISPT Pty Ltd				Suite 2.01 828 Pacific Highway Gordon NSW 2072				Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoonsuit.com.au Web www.henryandhymas.com.au				Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW				Drawn L.Caha				Designed N.Wetzlar				Original issue date 45413							
SURVEYED BY: LTSL				Architect / Surveyor NETTLETONTRIBE												Checked N.Wetzlar				Approved A.Francis				Scale (A1) 1:1000											
DATUM: AHD				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				DRAWING TO BE PRINTED IN COLOUR								Drawing number 240518_DA_C664				Revision 03															
ORIGIN OF LEVELS: PMZ5501, RL59.659				AMENDMENT				DRAWN				DESIGNED				DATE				AMENDMENT				DRAWN				DESIGNED				DATE			
03 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				JG NW 06.06.2025																															
02 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				MS SY 15.10.2024																															
01 ISSUED FOR CONCEPT				LC NW 16.06.2024																															



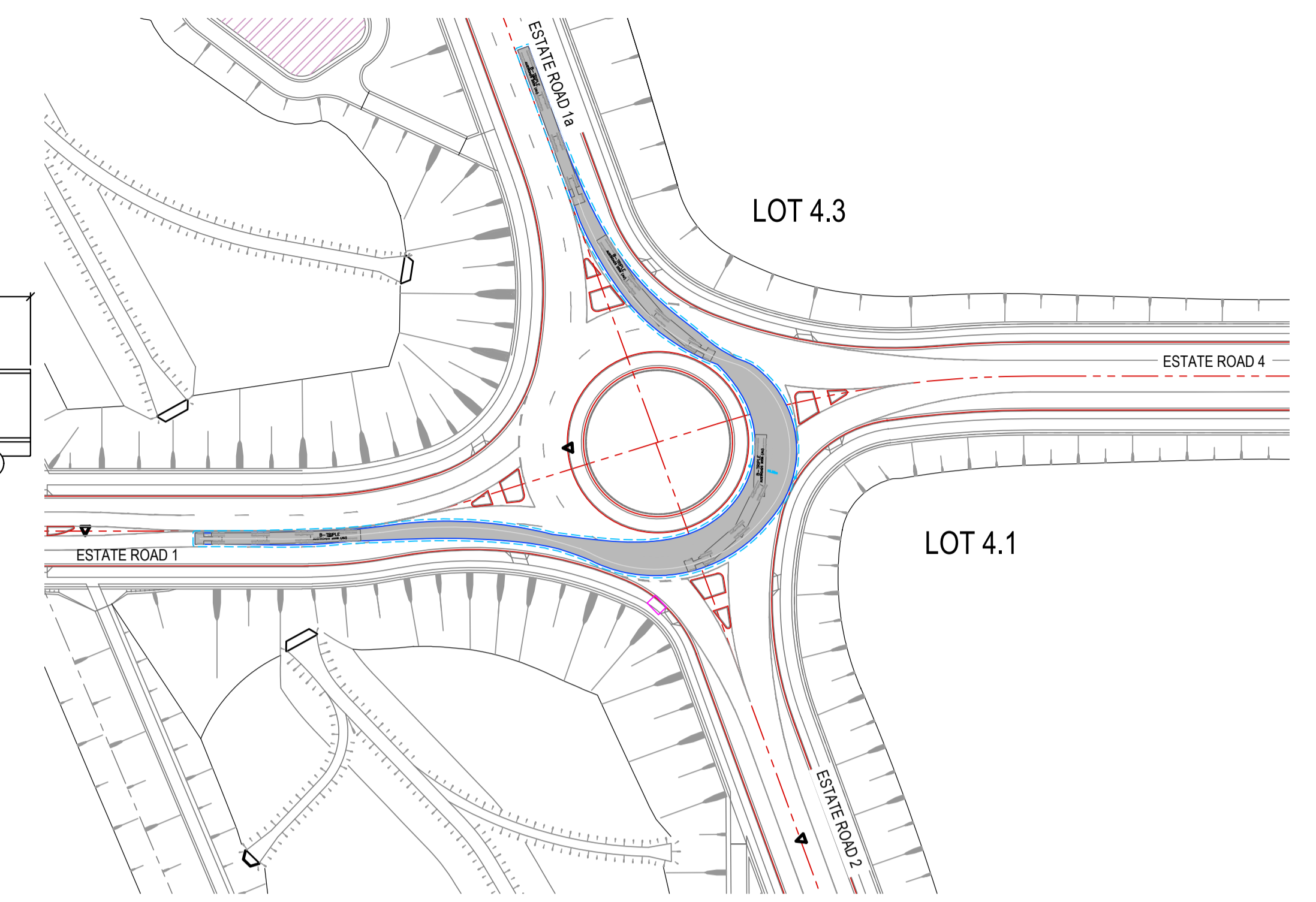
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36.5m B-TRIPLE
 SCALE 1:1000



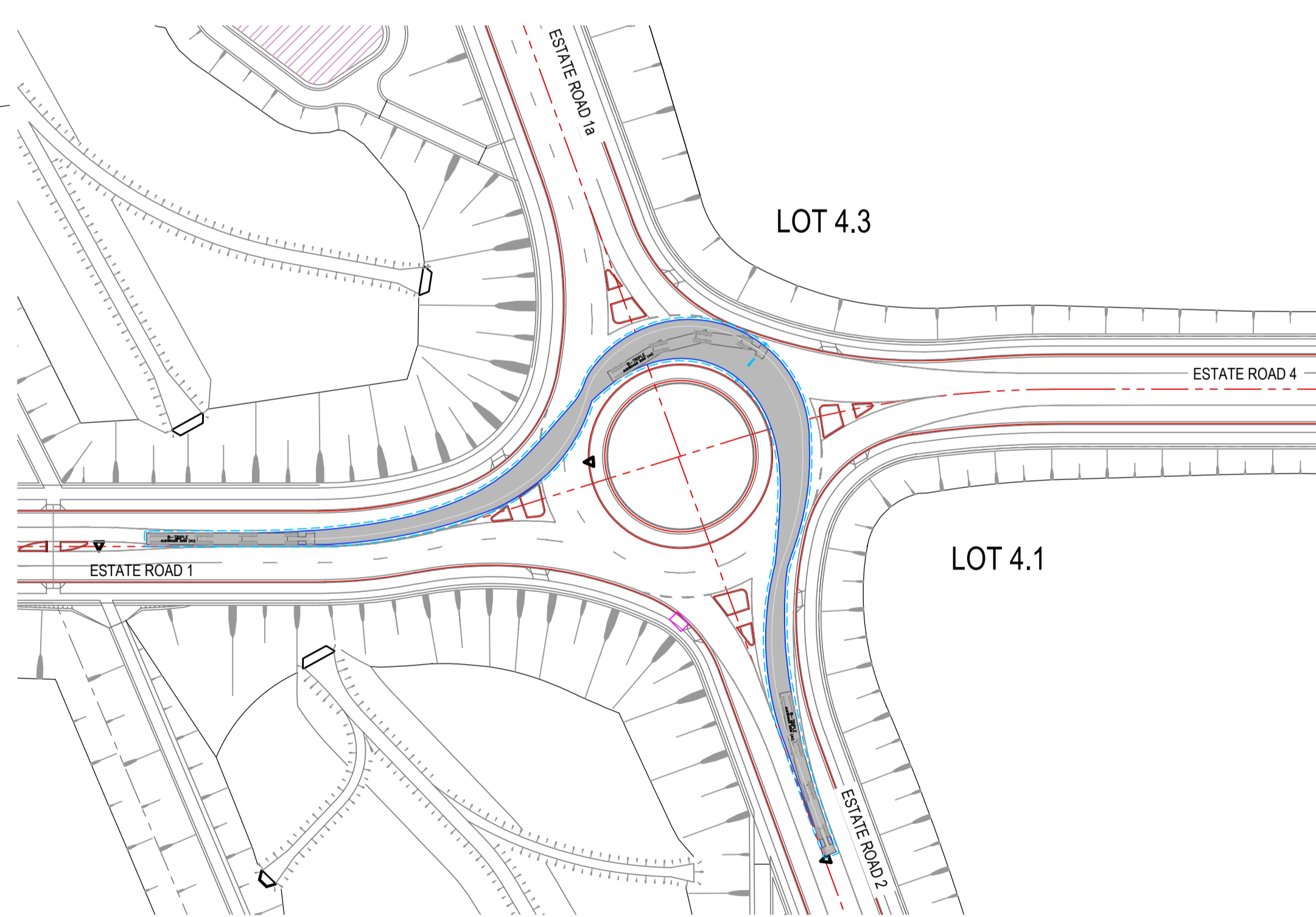
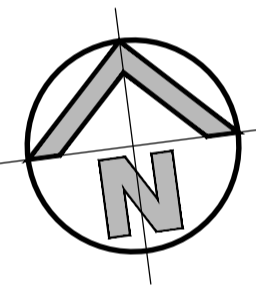
B-TRIPLE

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Trailer Width	: 2.50	Steering Angle	: 17.2
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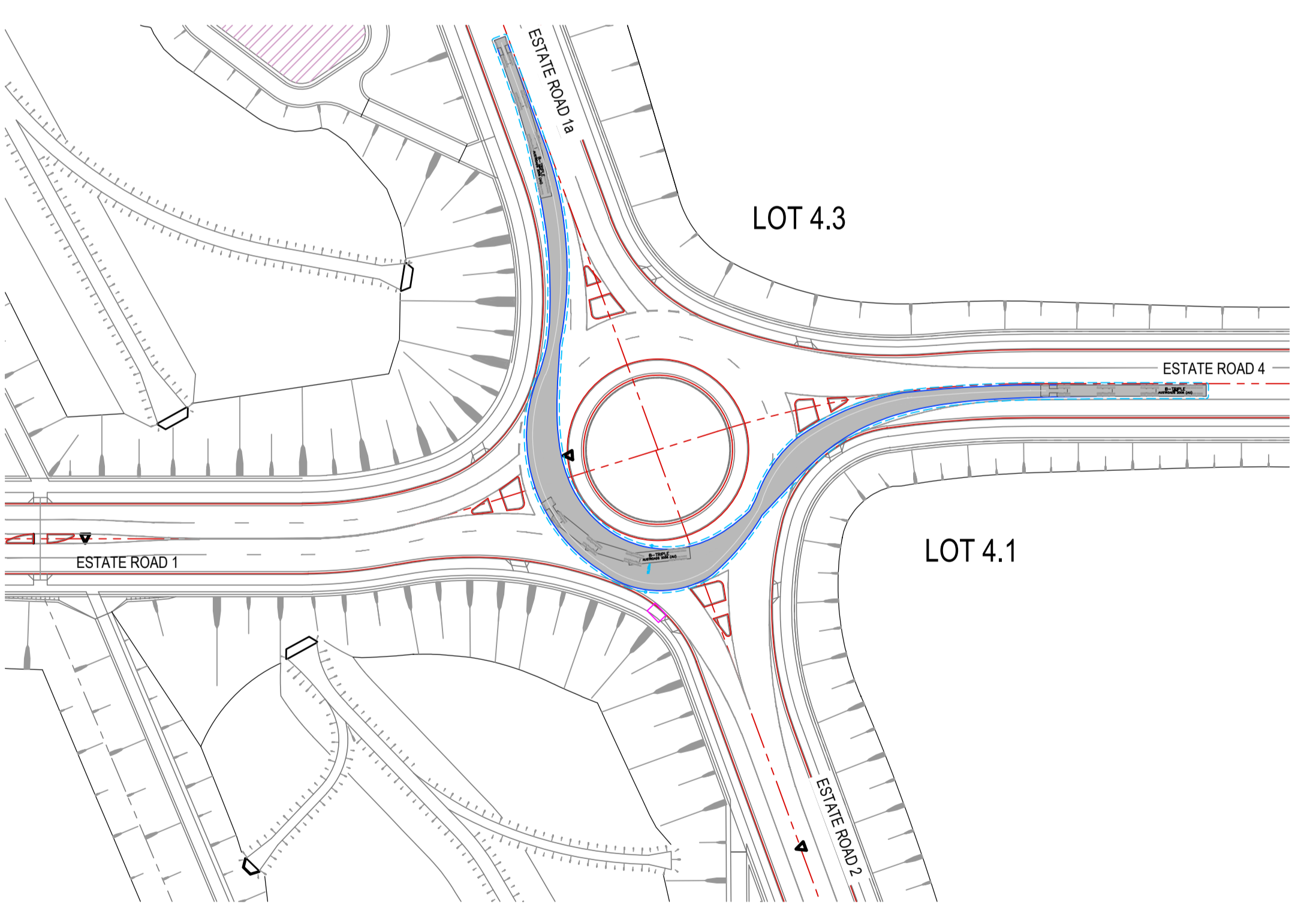
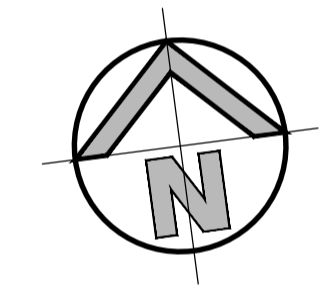
36.5m B-TRIPLE
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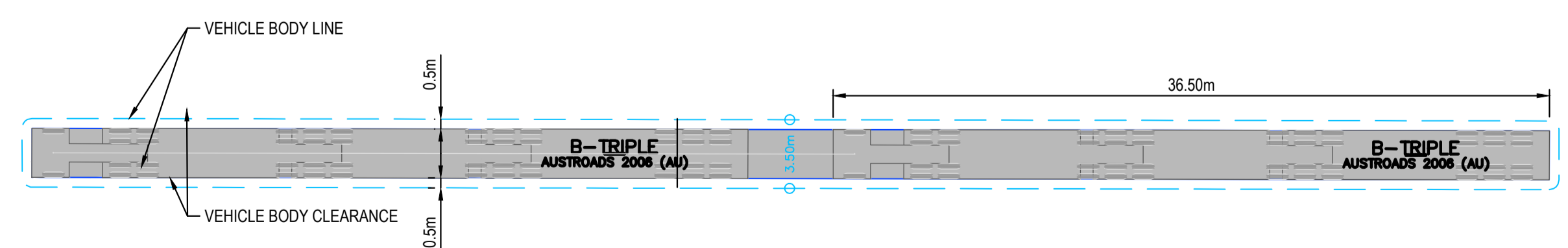
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36.5m B-TRIPLE
 SCALE 1:1000



TURNING MOVEMENT No. 25
36.5m B-TRIPLE
 SCALE 1:1000



TURNING MOVEMENT No. 26
36.5m B-TRIPLE
 SCALE 1:1000



LEGEND

ISSUED FOR SSDA

SURVEY INFORMATION				
SURVEYED BY: LTSL				
DATUM: AHD				
ORIGIN OF LEVELS: PMZ5501, RL59.659				
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024
01	ISSUED FOR CONCEPT	LC	NW	16.06.2024

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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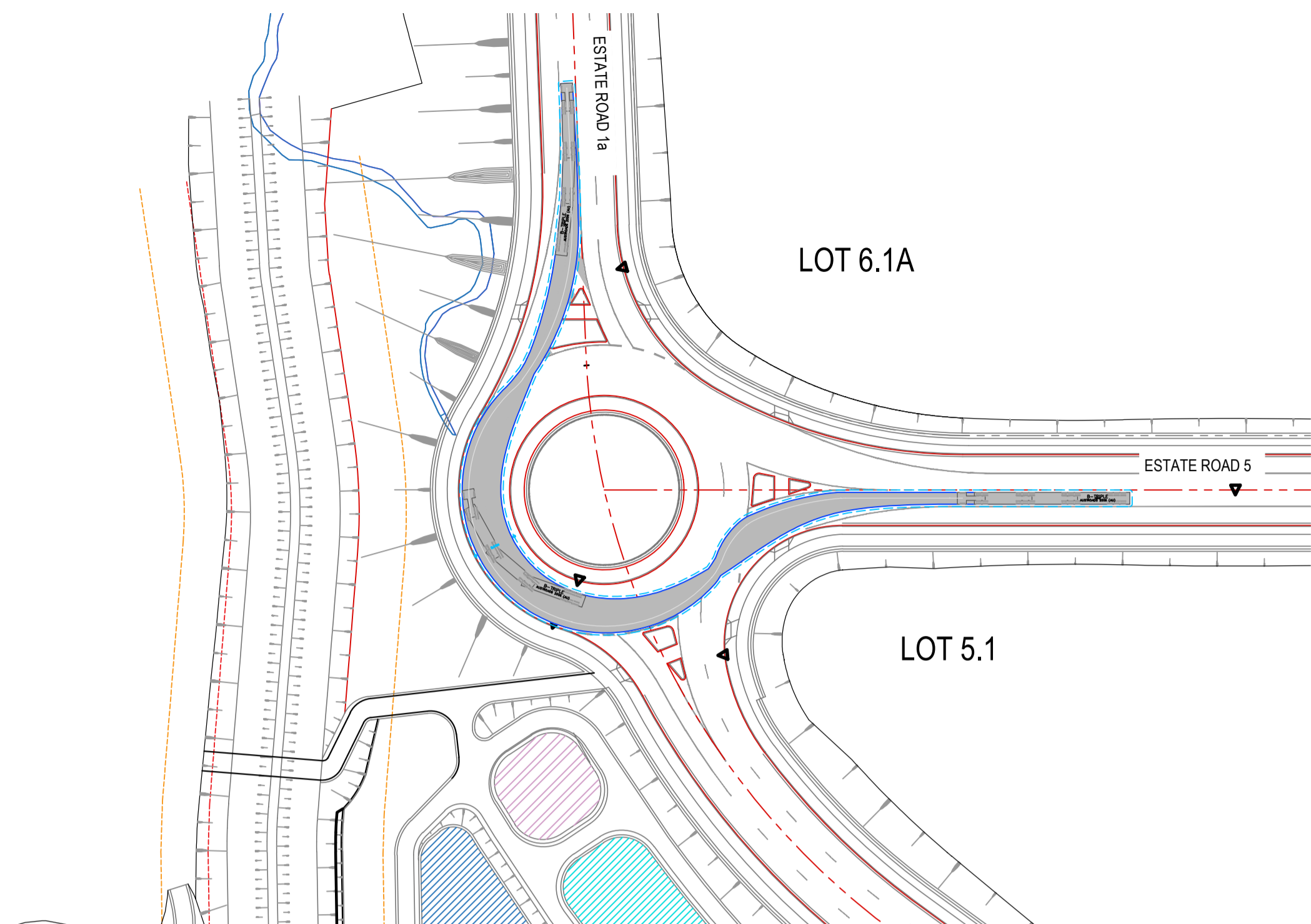
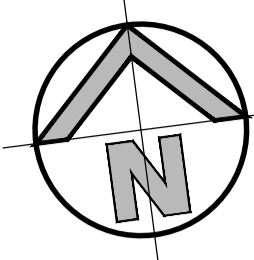
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoonsuit.com.au Web www.henryandhymas.com.au
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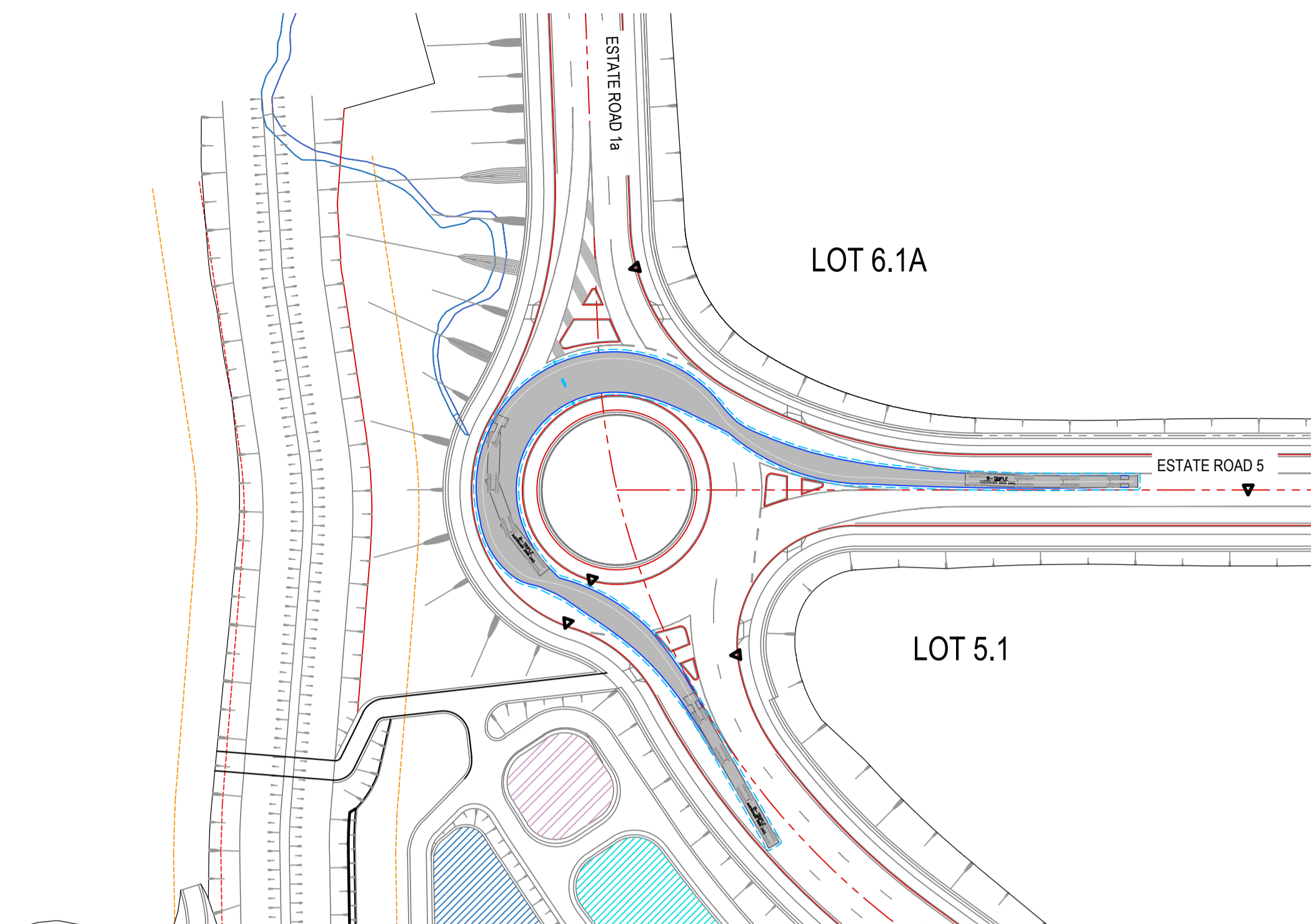
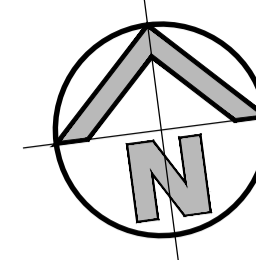
Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title	36.5m B-TRIPLE TURNING PATH SHEET 6 OF 8

Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale (A1)	1:1000
Drawing number	240518_DA_C666			Revision	03

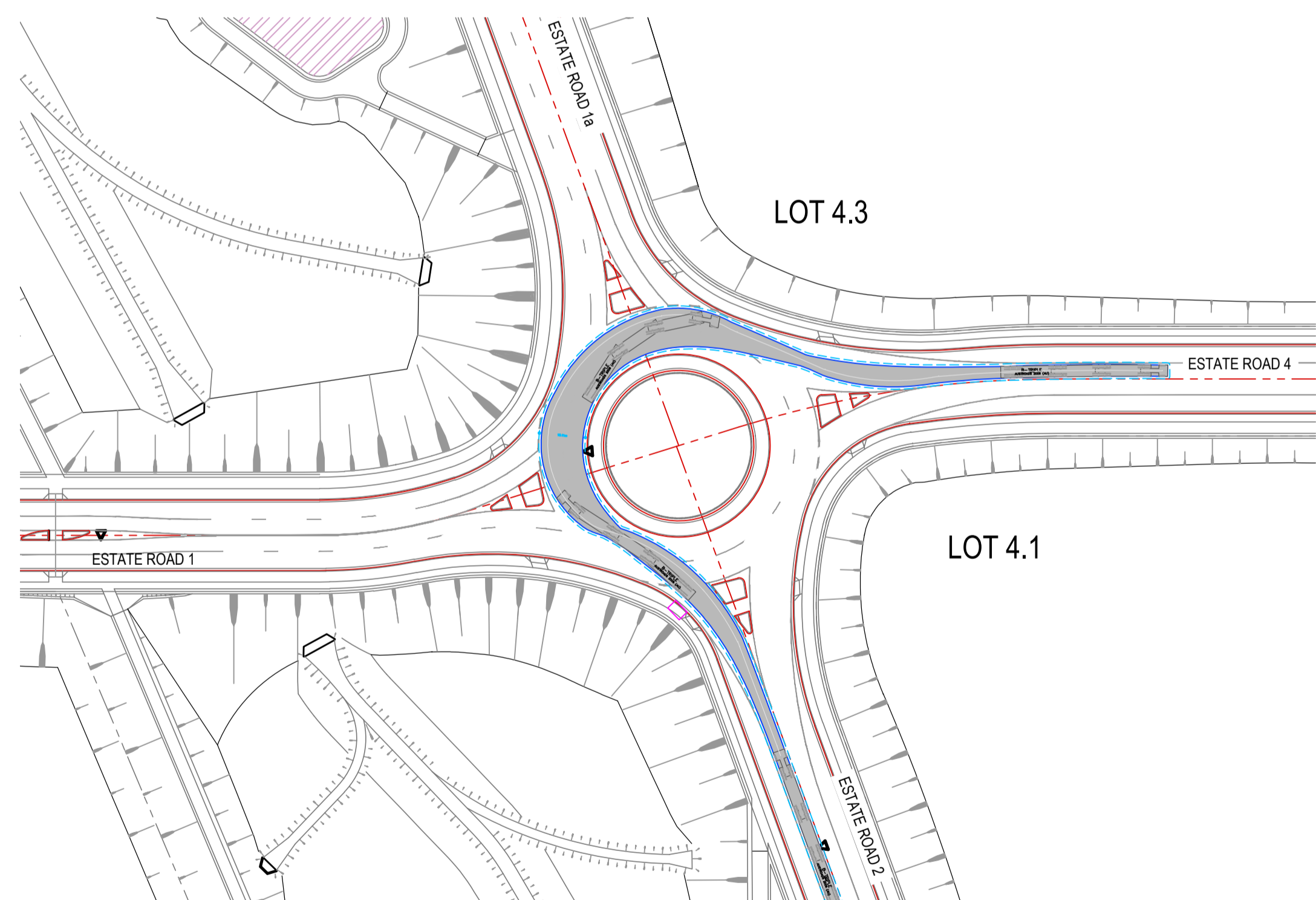
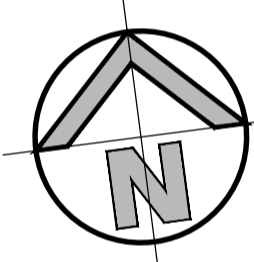
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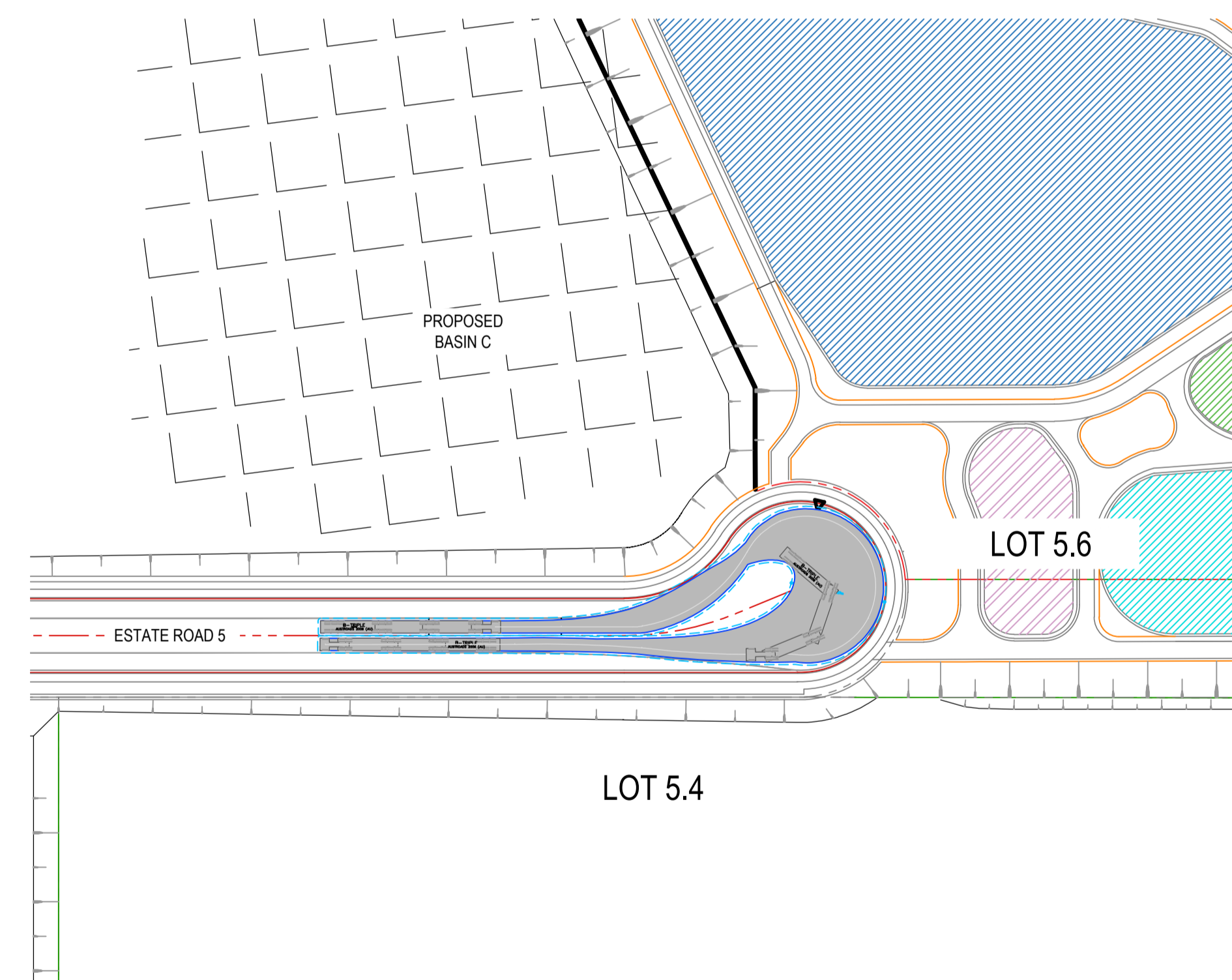
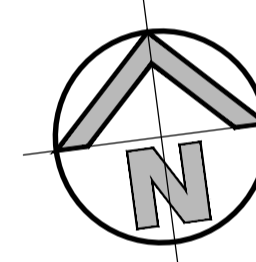
TURNING MOVEMENT No. 30
26m B-DOUBLE
 SCALE 1:1000



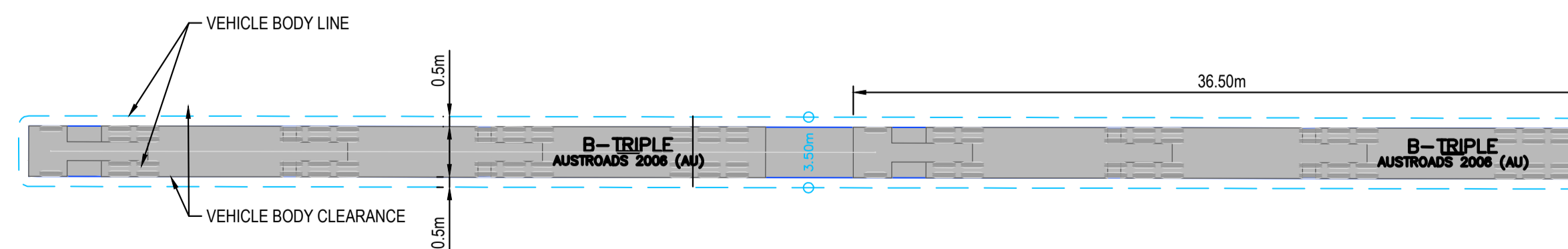
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26m B-DOUBLE
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TURNING MOVEMENT No. 32
26m B-DOUBLE
 SCALE 1:1000



TURNING MOVEMENT No. 33
26m B-DOUBLE
 SCALE 1:1000



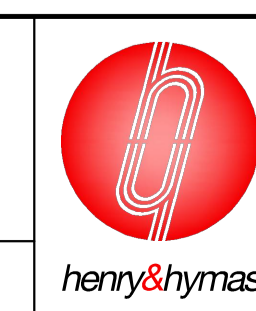
LEGEND

ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PMZ5501, RL59.659			
REVISION	AMENDMENT	DESIGNED	DATE
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW 08.06.2025
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY 15.10.2024
01	ISSUED FOR CONCEPT	LC	NW 16.06.2024

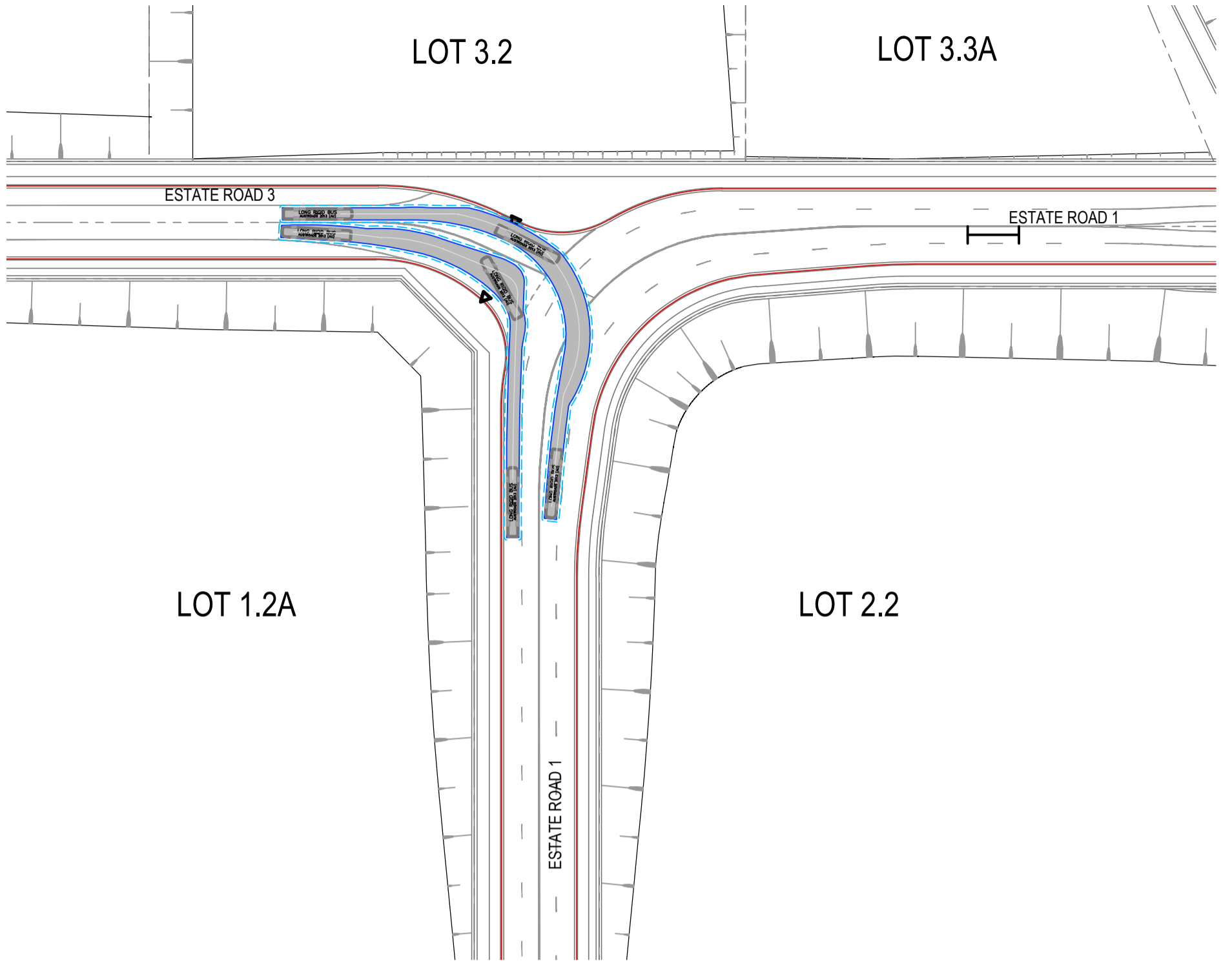
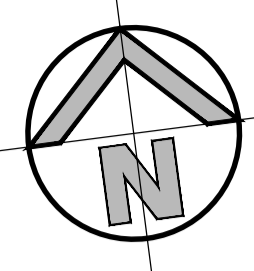
Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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DRAWING TO BE PRINTED IN COLOUR	

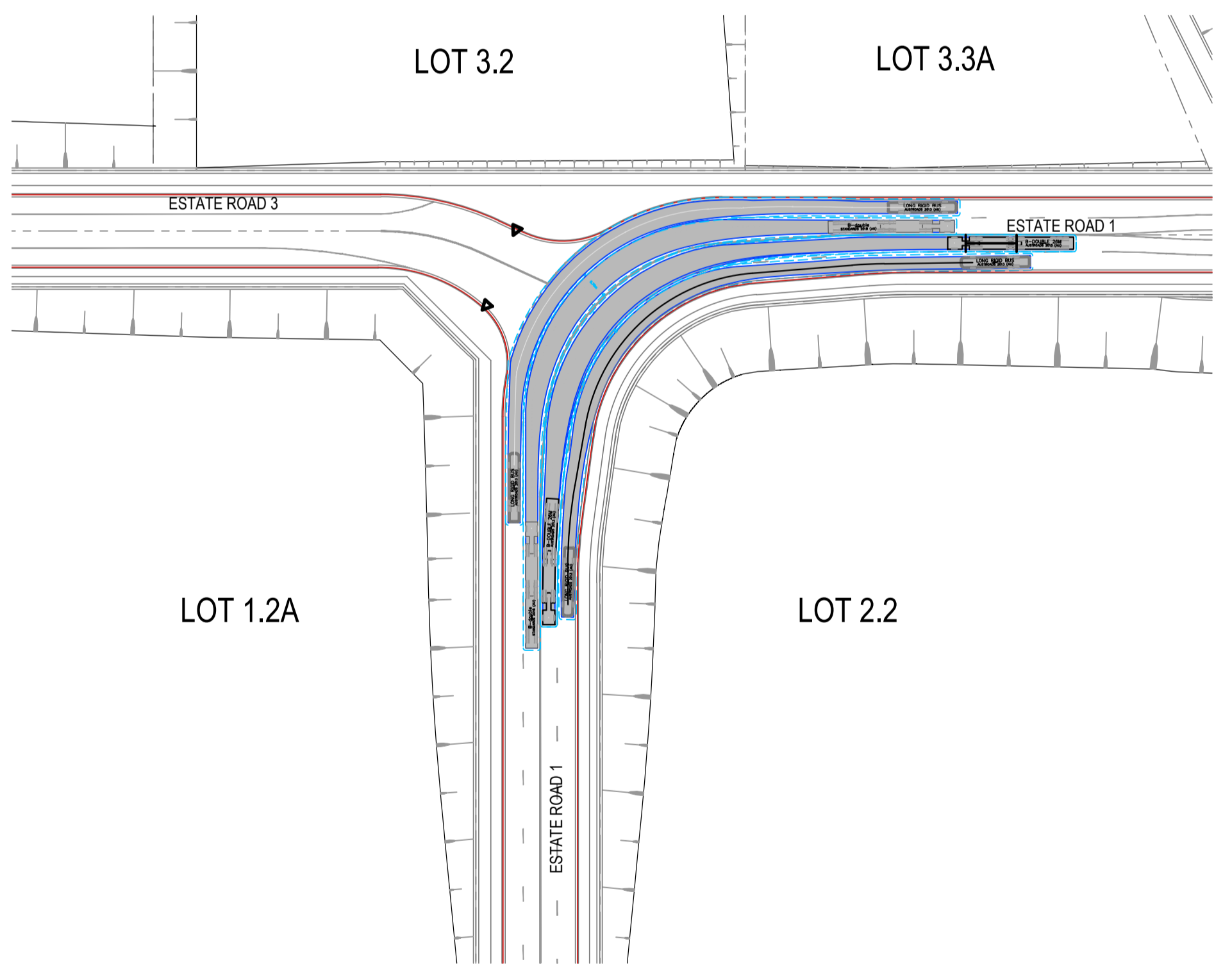
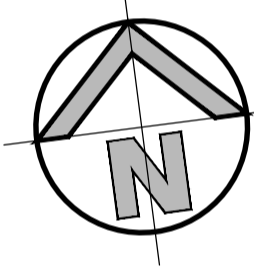


Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title	36.5m B-TRIPLE TURNING PATH SHEET 8 OF 8

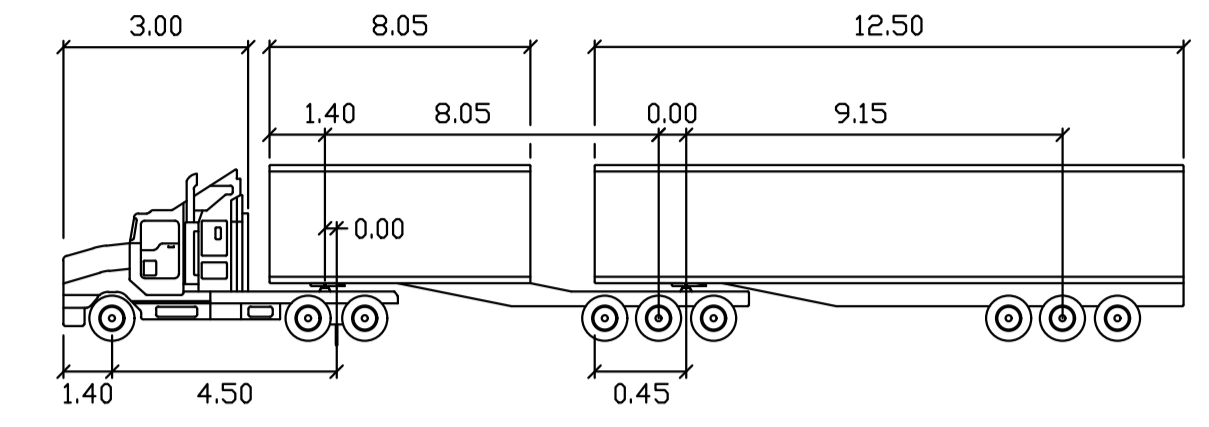
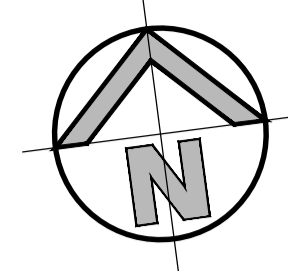
Drawn	L.Caha	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	Scale B/A1 1:1000
Drawing number	240518_DA_C668			Revision	03



TURNING MOVEMENT No. 01
14.5m LONG BUS
 SCALE 1:1000

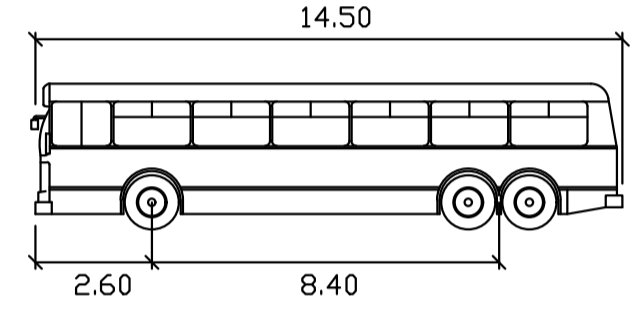


TURNING MOVEMENT No. 03
26m B-DOUBLE & 14.5m LONG BUS
 SCALE 1:1000



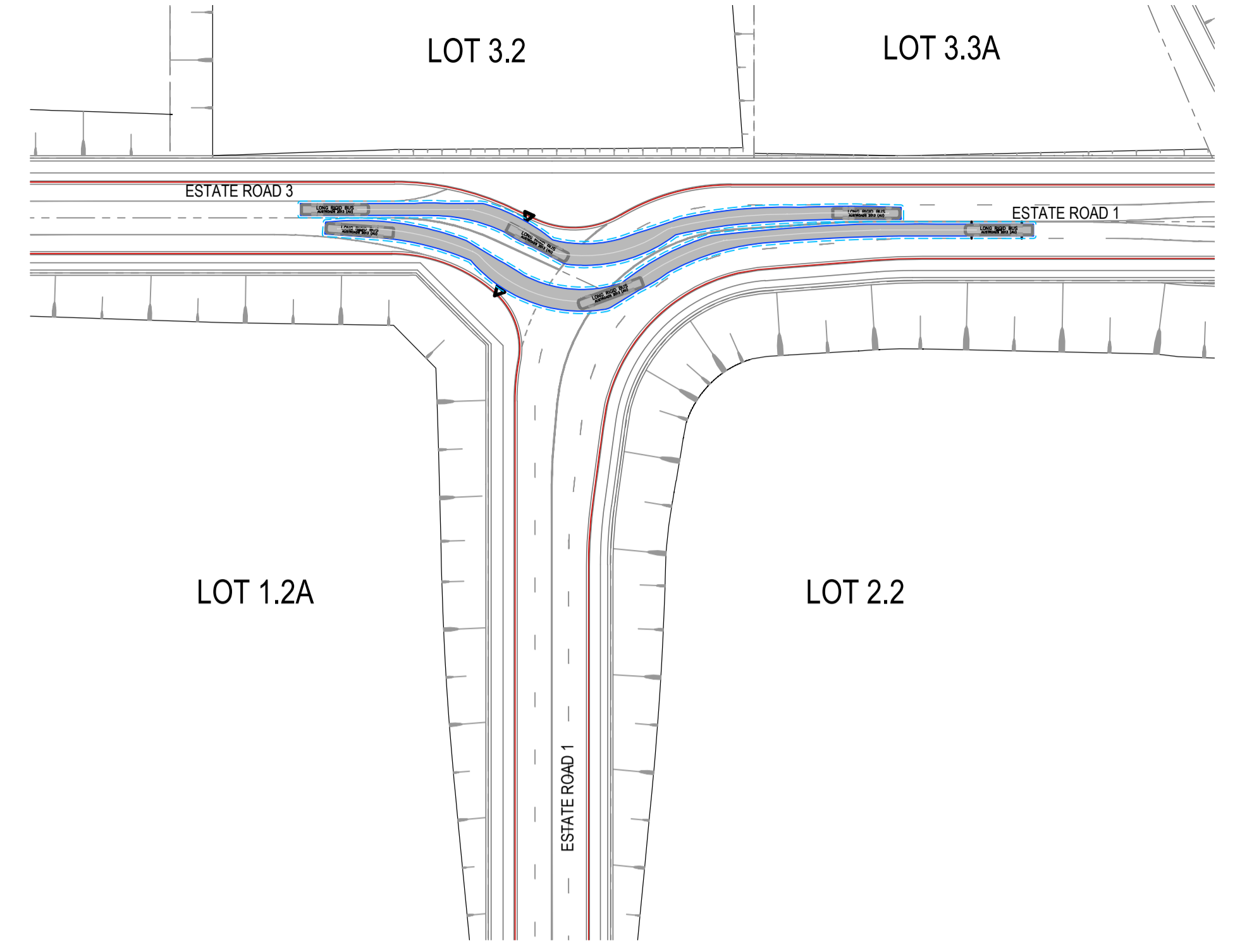
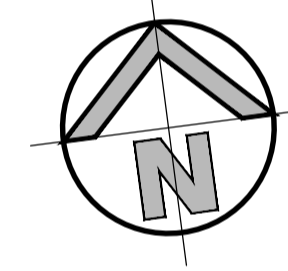
B-double
 meters
 Tractor Width : 2.50
 Trailer Width : 2.50
 Tractor Track : 2.50
 Trailer Track : 2.50
 Lock to Lock Time : 6.0
 Steering Angle : 23.4
 Articulating Angle : 70.0

26m B-DOUBLE
 N.T.S.

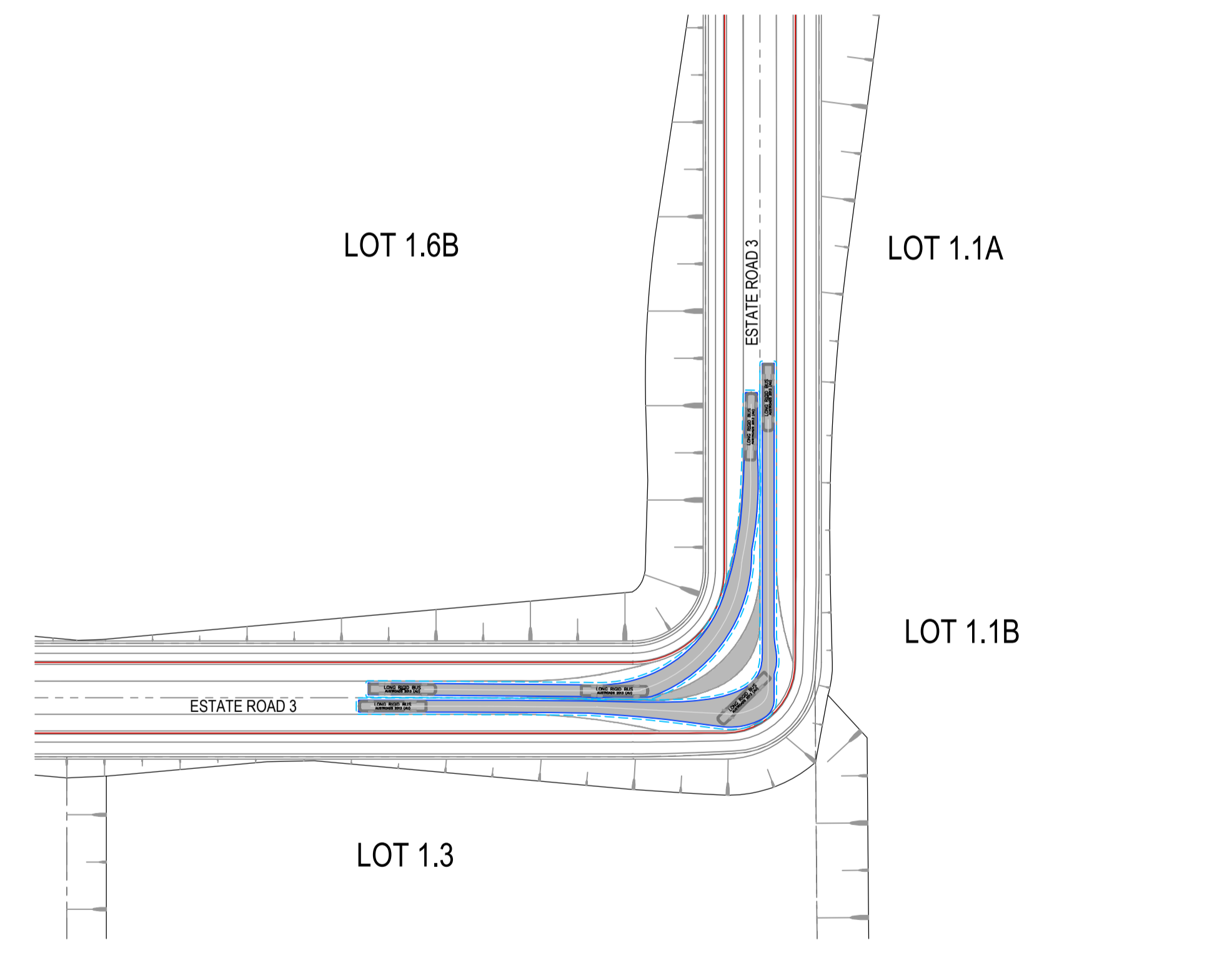


LONG RIGID BUS
 meters
 Width : 2.50
 Track : 2.50
 Lock to Lock Time: 6.0
 Steering Angle : 46.4

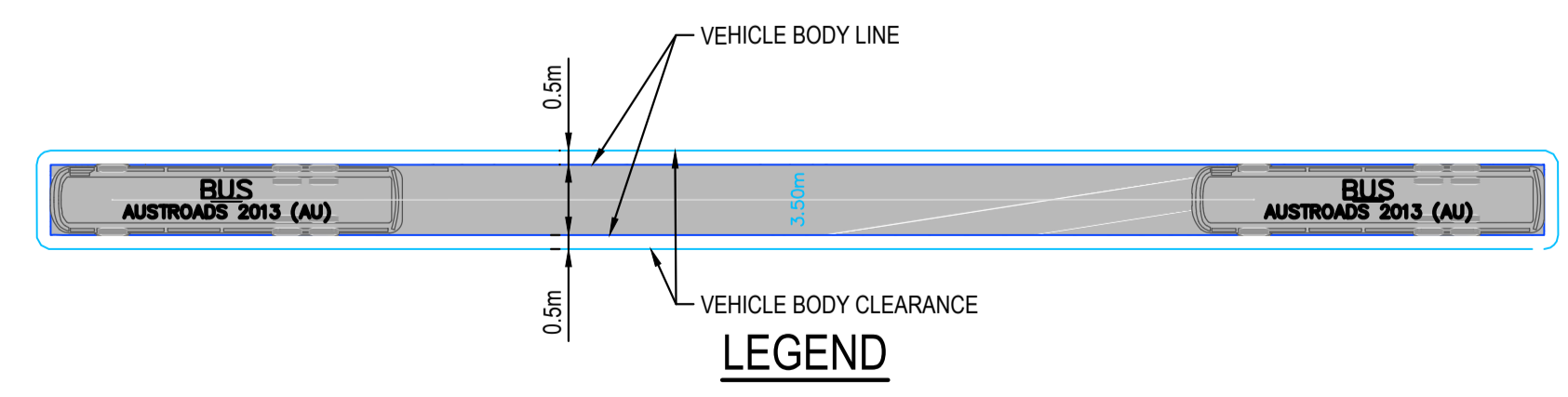
14.5m LONG BUS
 N.T.S.



TURNING MOVEMENT No. 02
14.5m LONG BUS
 SCALE 1:1000



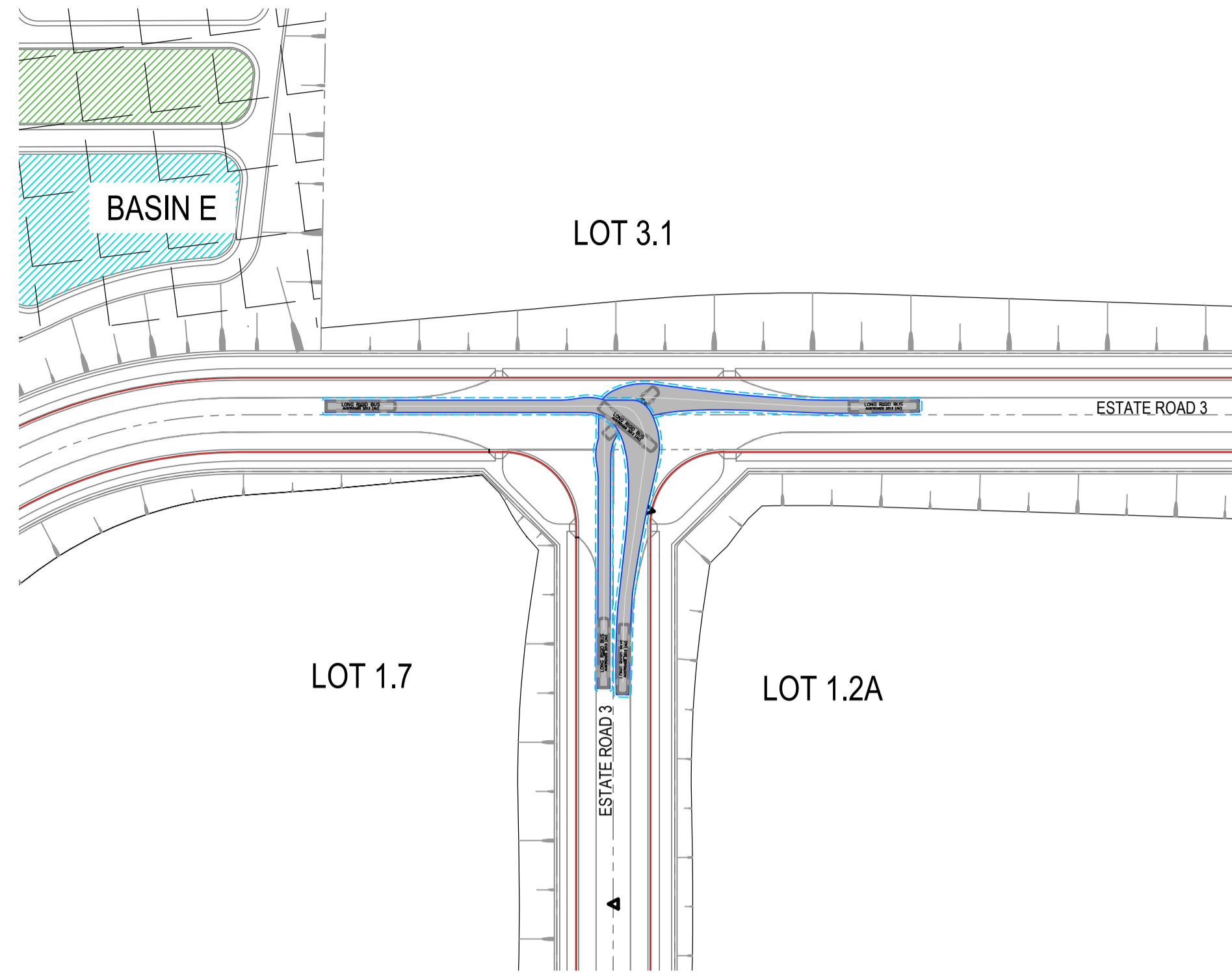
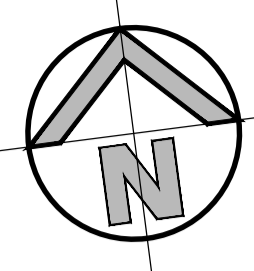
TURNING MOVEMENT No. 04
14.5m LONG BUS
 SCALE 1:1000



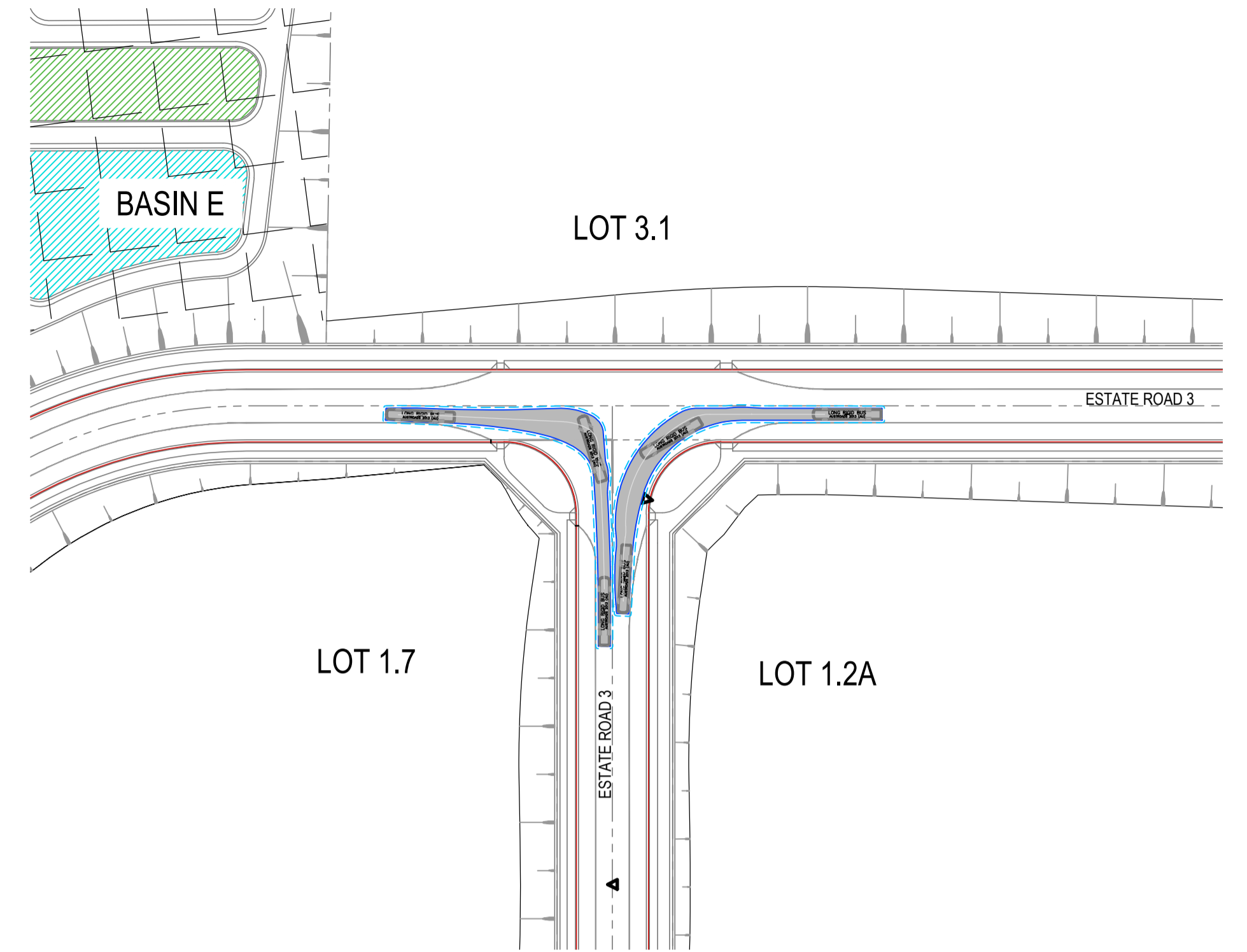
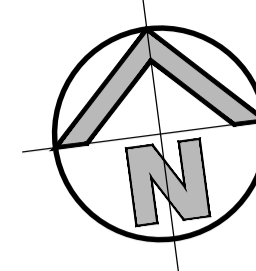
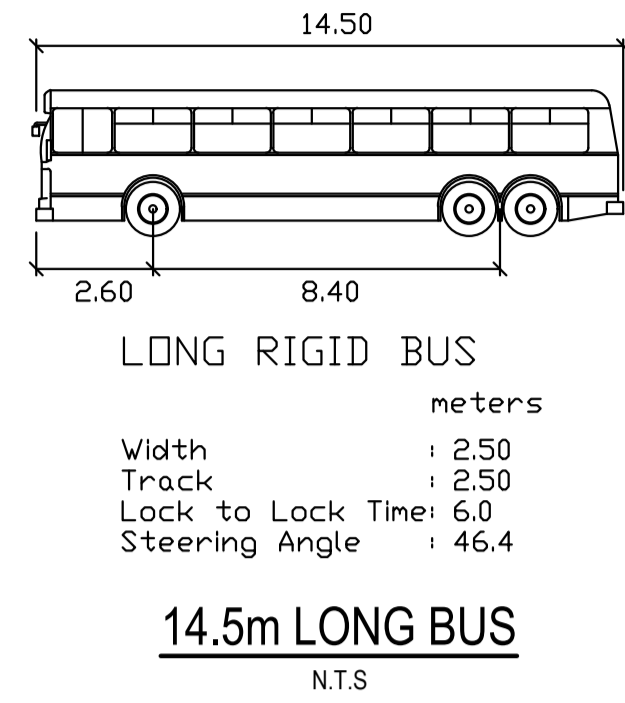
ISSUED FOR SSDA

SURVEY INFORMATION				Client				Suite 2.01				Project				Drawn				Designed				Original issue date			
SURVEYED BY: LTSL				HB&B Property Pty and ISPT Pty Ltd				828 Pacific Highway Gordon NSW 2072				BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW				L.Caha				N.Wetzlar				45413			
DATUM: AHD				Architect / Surveyor				Tel: +61 2 9417 8400 Fax: +61 2 9417 8337 Email: email@hconsult.com.au Web: www.henryandhymas.com.au				Title				Checked				Approved				Scale: B/A1			
ORIGIN OF LEVELS: PM25501, RL59.659				NETTLETONTRIBE				Henry & Hymas logo				14.5m LONG BUS TURNING PATH SHEET 1 OF 6				N.Wetzlar				A.Francis				1:1000			
REVISION				AMENDMENT				DRAWN				DESIGNED				DATE				Drawing number				Revision			
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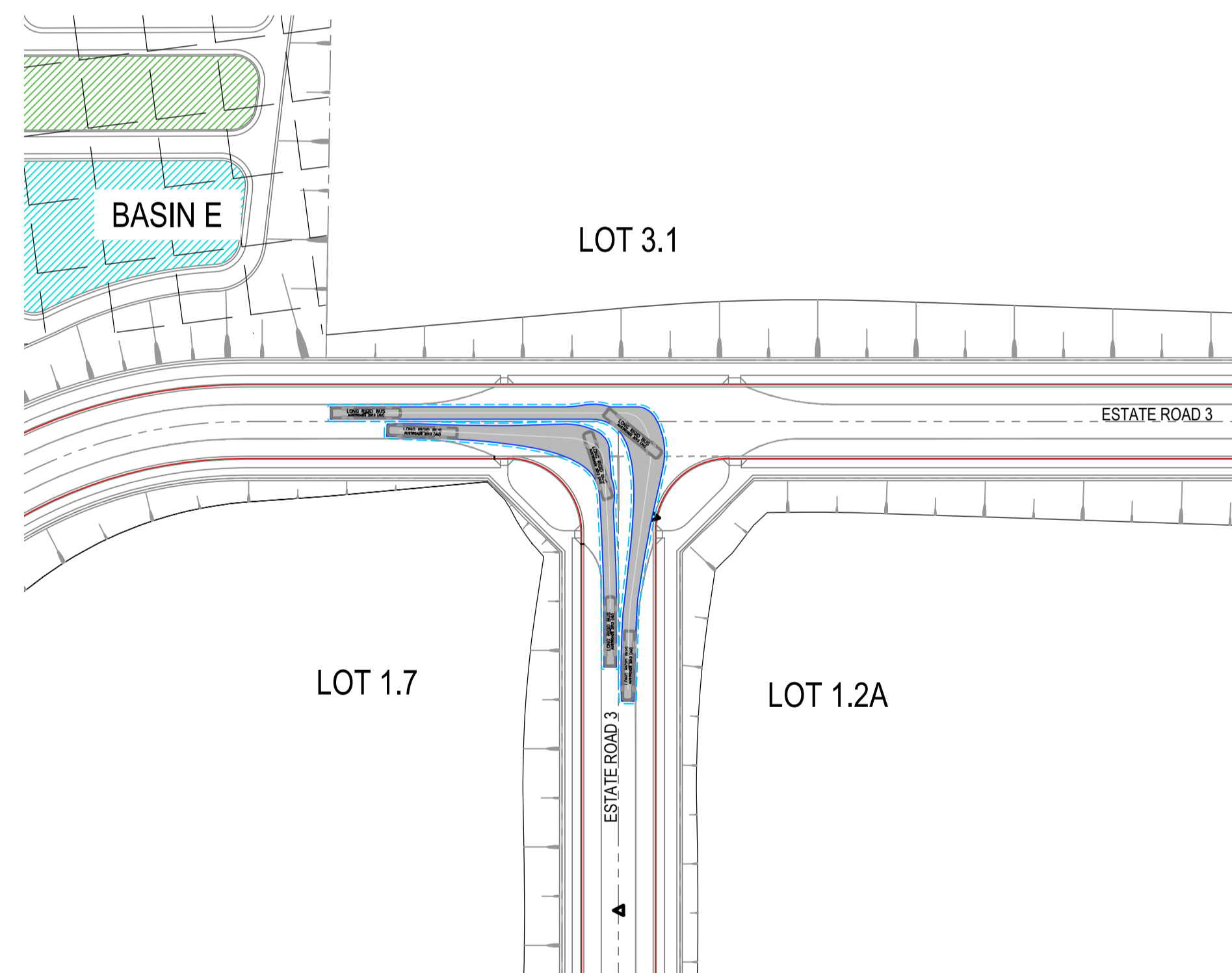
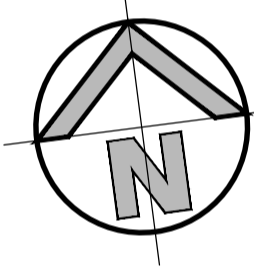
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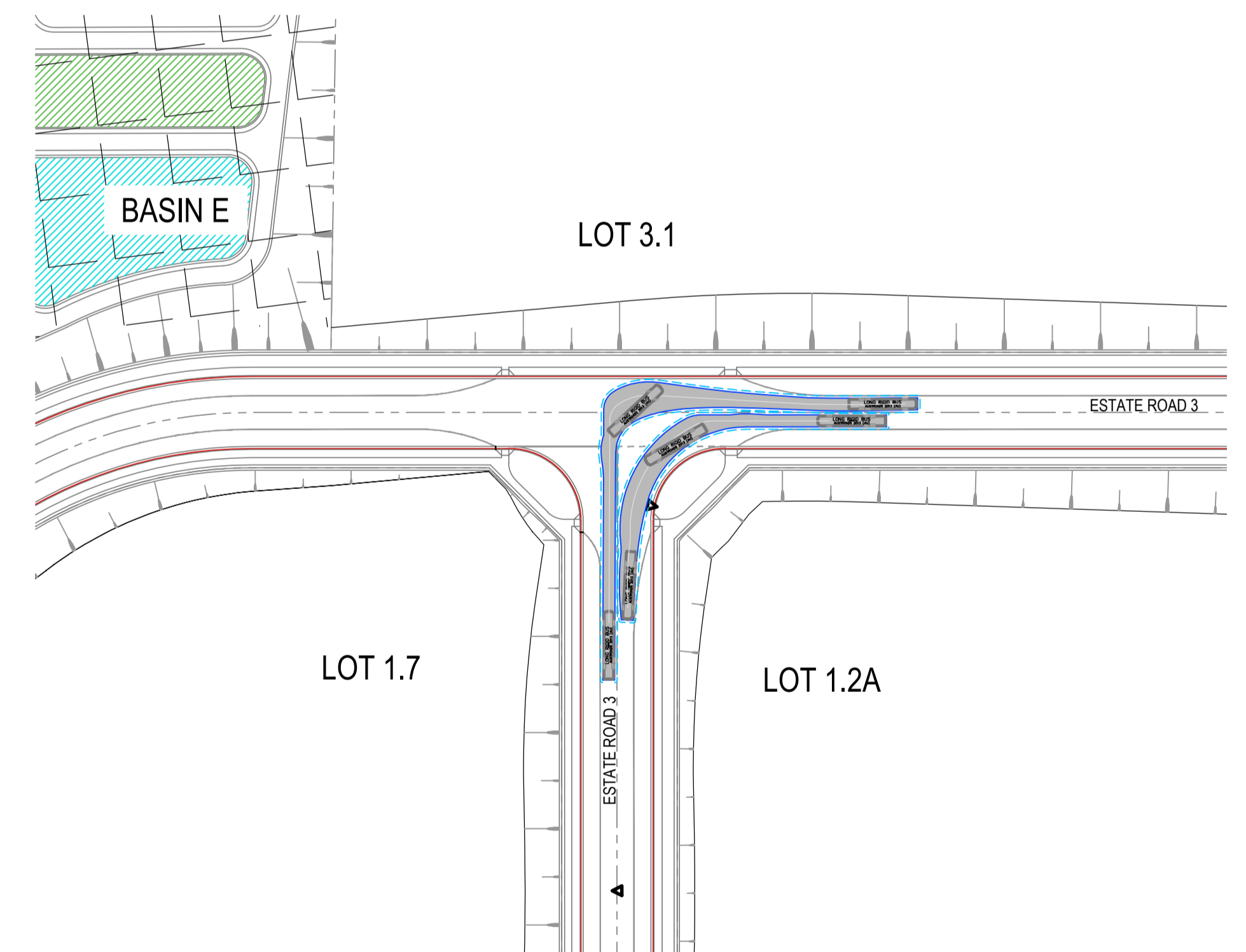
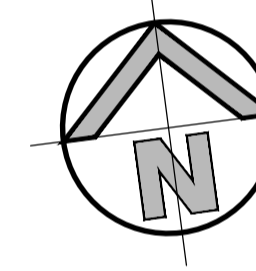
TURNING MOVEMENT No. 05
14.5m LONG BUS
 SCALE 1:1000



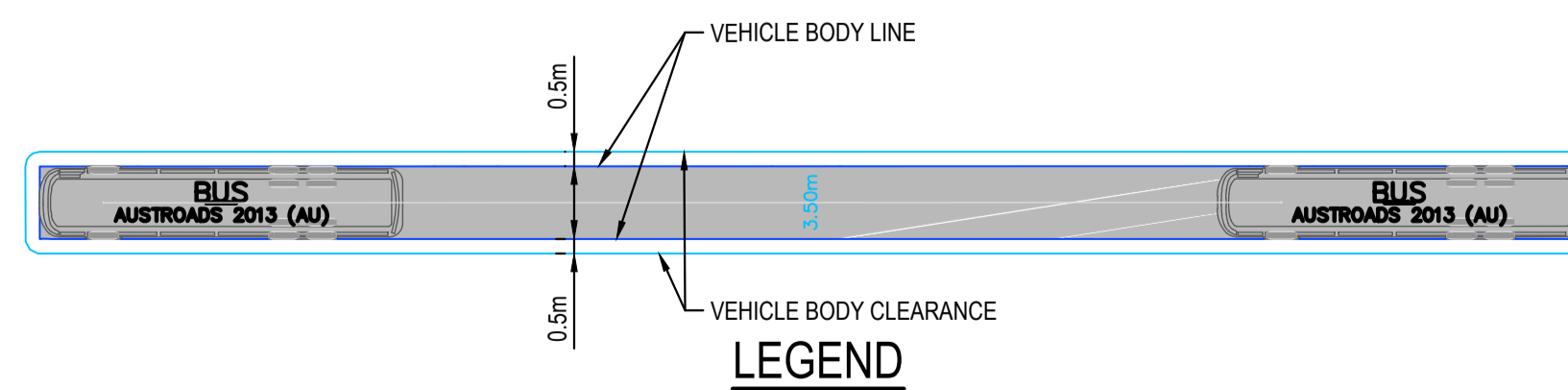
TURNING MOVEMENT No. 06
14.5m LONG BUS
 SCALE 1:1000



TURNING MOVEMENT No. 07
14.5m LONG BUS
 SCALE 1:1000



TURNING MOVEMENT No. 08
14.5m LONG BUS
 SCALE 1:1000



ISSUED FOR SSSA

SURVEY INFORMATION		Client	
SURVEYED BY: LTSL		HB&B Property Pty and ISPT Pty Ltd	
DATUM: AHD		Architect / Surveyor	
ORIGIN OF LEVELS: PMZ5501, RL59.659		NETTLETONTRIBE	
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
REVISION	AMENDMENT	DESIGNED	DATE

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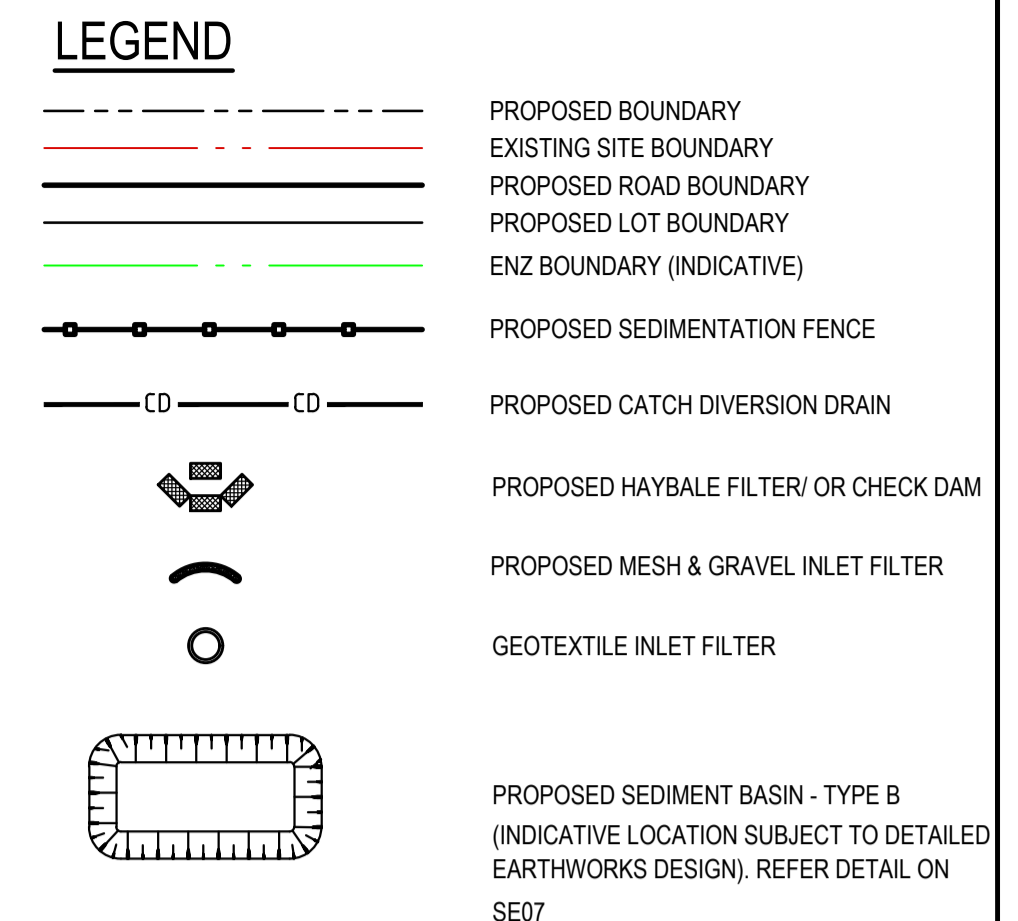
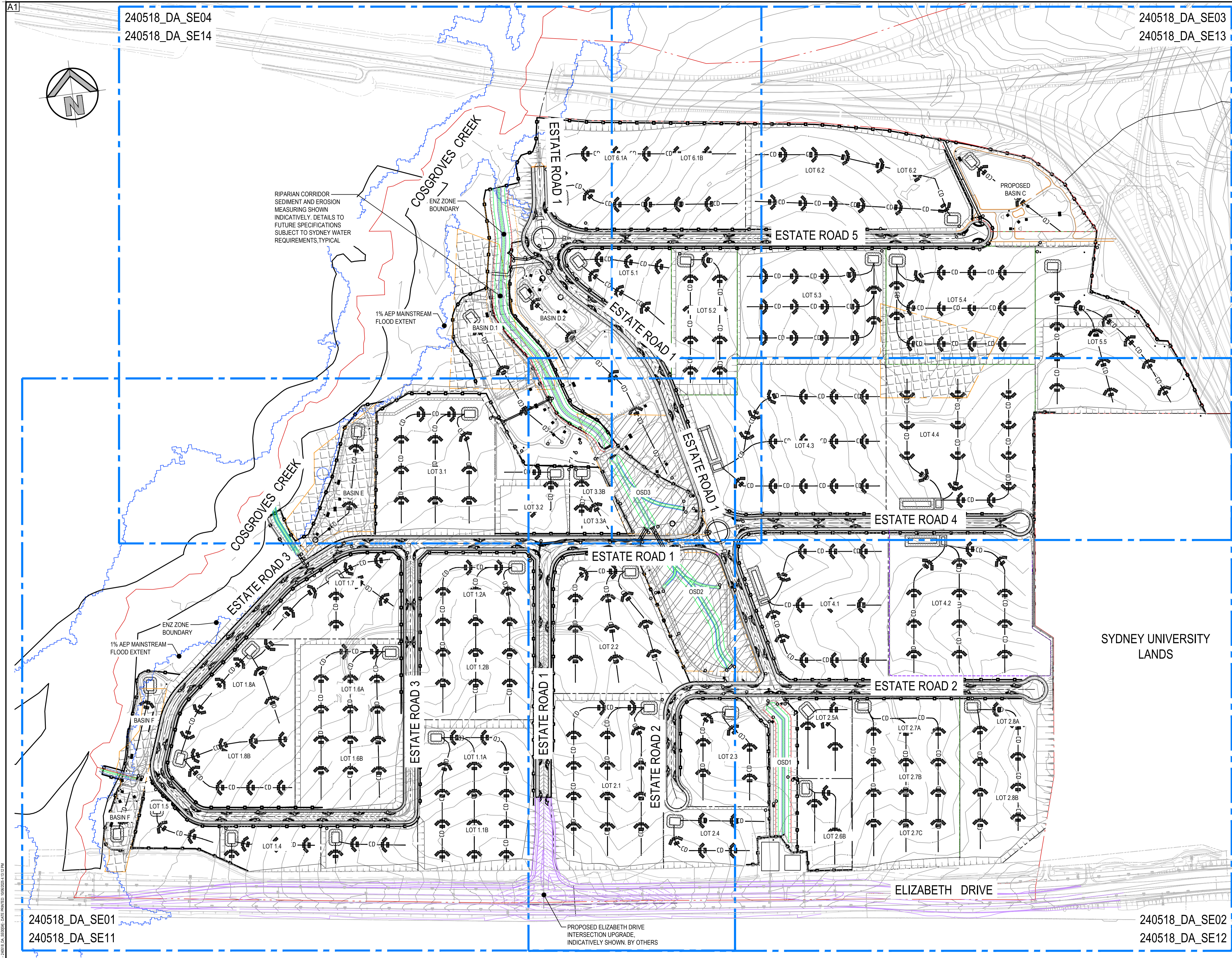
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 Web: www.henryandhymas.com.au



Project
BURRAH PARK
 ELIZABETH DRIVE, BADGERYS CREEK, NSW
 Title
14.5m LONG BUS TURNING PATH SHEET 2 OF 6

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale: B/A1 1:1000
Drawing number 240518_DA_C672		Revision 01

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 Plot Scale: 1:1000
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 Plot Text Style: Standard
 Plot Title: 14.5m LONG BUS TURNING PATH SHEET 2 OF 6
 Plot User: JG



IMPORTANT NOTE: REFER SE11-SE14 FOR EARLY WORKS SEDIMENT AND EROSION CONTROL PLAN

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RESPECTIVE COUNCIL SPECIFICATIONS AND LANDCOM'S "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING, CATCH DRAINS, AND HAYBALE/ CHECK DAM LOCATIONS INDICATIVELY SHOWN.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED. EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

HIGHLY DISPERSIVE SOILS

THE FOLLOWING ALLOWANCES HAVE BEEN MADE TO ACCOUNT FOR HIGHLY DISPERSIVE SOILS TYPICAL OF THE REGION. UNDERTAKE TESTING FOR HIGHLY DISPERSIVE SOILS AND UPDATE THE SEDIMENT AND EROSION CONTROL PLAN FOR THE FOLLOWING IF PRESENT:

- FLOW DIVERSION BANKS ARE TO BE SPECIFIED IN LEU OF CATCH DRAINS TO DIVERT FLOWS TO SEDIMENT BASINS. BACK-PUSH BANKS ARE FORMED BY PUSHING MATERIAL UP-SLOPE TO FORM A FLOW DIVERSION BANK. IN SUCH CASES THE DIVERTED WATER FLOWS UP-SLOPE OF THE EMBANKMENT INSTEAD OF WITHIN AN EXCAVATED TRENCH REDUCING THE LIKELIHOOD OF ENCOUNTERING HIGHLY DISPERSIVE SUBSOILS.
- ALL FLOW DIVERSION BANKS SHOULD HAVE A STABLE OUTLET AND SEEDED AND MULCHED IF THERE WORKING LIFE IS EXPECTED TO EXCEED 30 DAYS, OR AS REQUIRED BY THE SEDIMENT AND CONTROL STANDARD.
- DISPERSIVE SOILS ARE HIGHLY SUSCEPTIBLE TO DEEP, NARROW RILLING ON EXPOSED SLOPES. THESE SOILS MUST BE APPROPRIATELY TREATED OR BURIED UNDER AN APPROPRIATE LAYER OF NON-DISPERSIVE SOIL (USUALLY 100MM MIN) BEFORE PLACING ANY EROSION CONTROL MEASURES.
- A PRACTICE BECOMING INCREASINGLY COMMON IS TO USE THE STRIPPED TOPSOIL TO FORM FLOW DIVERSION BANKS UPSLOPE OF THE SOIL DISTURBANCE. INSTEAD OF PLACING THE TOPSOIL ON STOCKPILES, ADJUST SOIL ERODIBILITY (K-FACTOR) FOR AN ADDITION 20% FOR HIGHLY DISPERSIVE SOILS.
- TOPSOIL AND VEGETATION: CONSIDER TREATMENT (E.G. GYPSIUM) PRIOR TO VEGETATION OR SEEDING SUBJECT TO SITE REQUIREMENTS.
- AVOID EXPOSING DISPERSIVE SOILS. IF EXPOSED THESE SOILS SHOULD BE TREATED TO STABILIZE THEIR DISPERSIVE NATURE OR BURIED BENEATH A LAYER OF NON DISPERSIVE SOILS.
- BENCHES CUT INTO DISPERSIVE OR SILTY SOILS HAVE A HIGH RISK OF TUNNEL EROSION AND SLOPE FAILURE. DISPERSIVE NATURE OF SOIL IS TO BE INVESTIGATED IF ENCOUNTERED ONSITE AND BENCHING DESIGN APPROPRIATELY UPDATED IF ENCOUNTERED.

240518_DA_SE01
240518_DA_SE11

240518_DA_SE03
240518_DA_SE13

240518_DA_SE02
240518_DA_SE12

SURVEY INFORMATION

SURVEYED BY: LTSL				
DATUM/AHD				
ORIGIN OF LEVELS: PMZ5501, RL59.659				
REVISION	DRAWN	DESIGNED	DATE	REVISION

04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024
02	ISSUED FOR CONCEPT	Ala	NW	06.09.2024
01	ISSUED FOR CONCEPT	MP	NW	16.06.2024

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
NETTLETONTRIBE

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henry&hymas

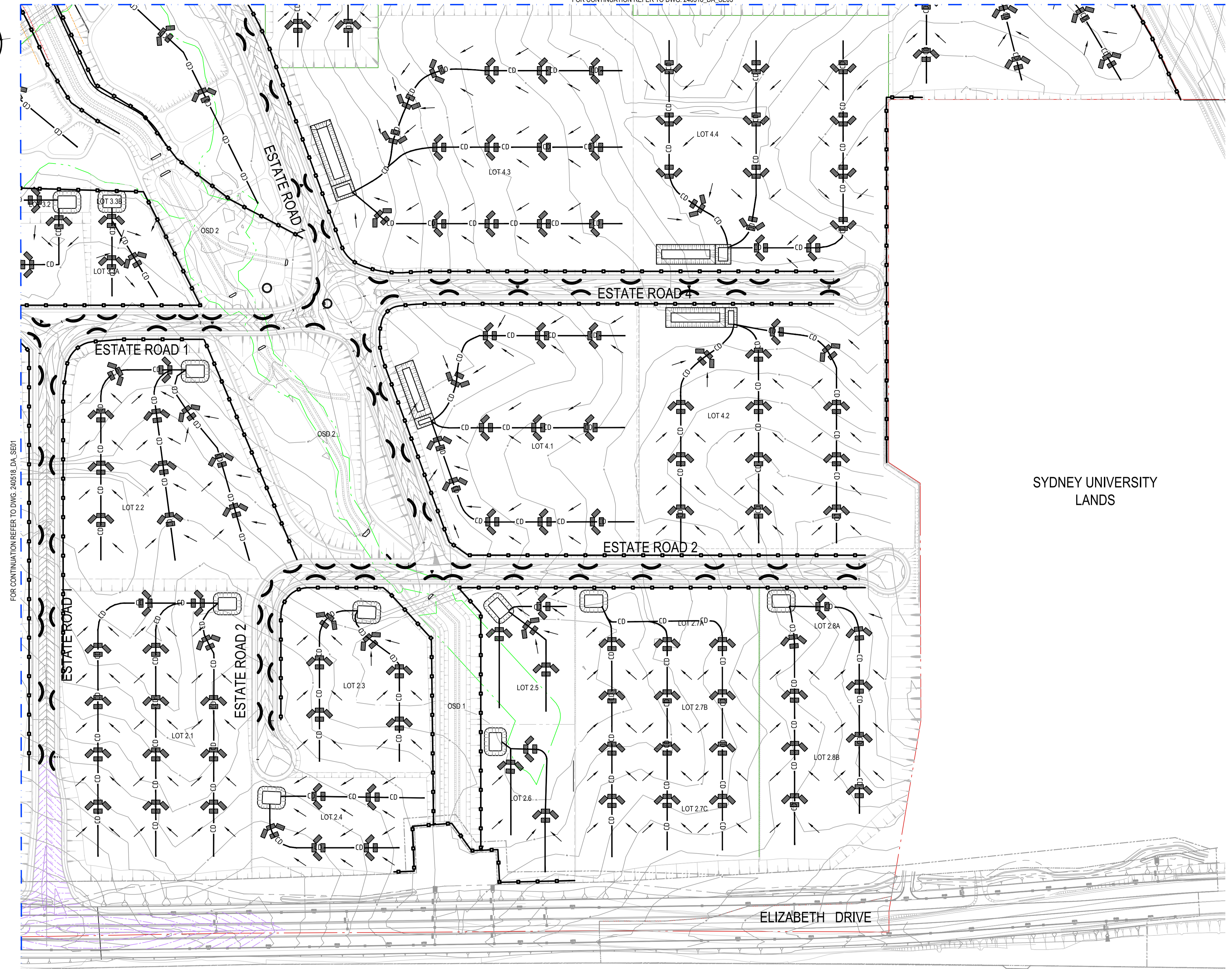
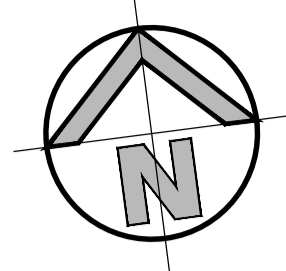


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
SEDIMENT AND EROSION CONTROL PLAN OVERALL

Drawn M.Pereira	Designed N.Wetzlar	Original Issue Date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @A1 1:3000
Drawing number 240518_DA_SE00	Revision 04	

ISSUED FOR SSDA



SYDNEY UNIVERSITY LANDS

ELIZABETH DRIVE

SEDIMENT AND EROSION CONTROL PLAN
SCALE: 1:2000

ISSUED FOR SSSA

SURVEY INFORMATION	
SURVEYED BY: LTSL	
DATUM: AHD	
ORIGIN OF LEVELS: PM25501, RL59.659	

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024					
02	ISSUED FOR CONCEPT	Aln	NW	06.09.2024					
01	ISSUED FOR CONCEPT	MP	NW	16.06.2024					

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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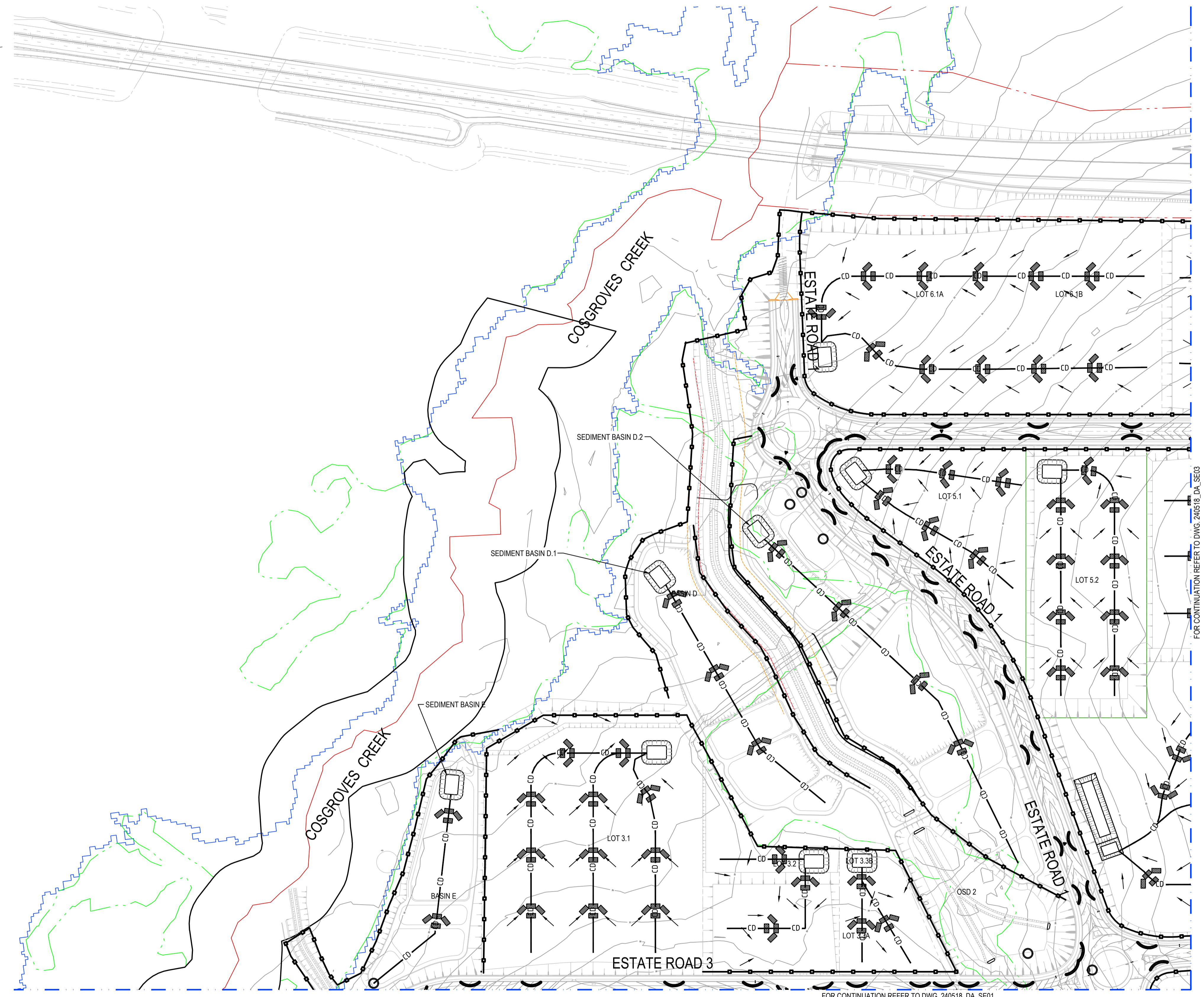
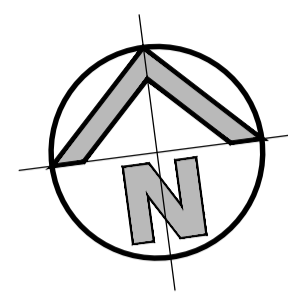
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@honsult.com.au Web www.henryandhymas.com.au
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 4

Drawn	M.Pereira	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	A1 1:2000
Drawing number	240518_DA_SE02			Revision	04

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SEDIMENT AND EROSION CONTROL PLAN
SCALE: 1:2000

FOR CONTINUATION REFER TO DWG. 240518_DA_SE01

ISSUED FOR SSSA

SURVEY INFORMATION	
SURVEYED BY: LTSL	
DATUM: AHD	
ORIGIN OF LEVELS: PMZ5501, RL59.659	

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024					
02	ISSUED FOR CONCEPT	Aln	NW	06.09.2024					
01	ISSUED FOR CONCEPT	MP	NW	16.06.2024					

Client
HB&B Property Pty and ISPT Pty Ltd

Architect / Surveyor
NETTLETONTRIBE

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DRAWING TO BE PRINTED IN COLOUR

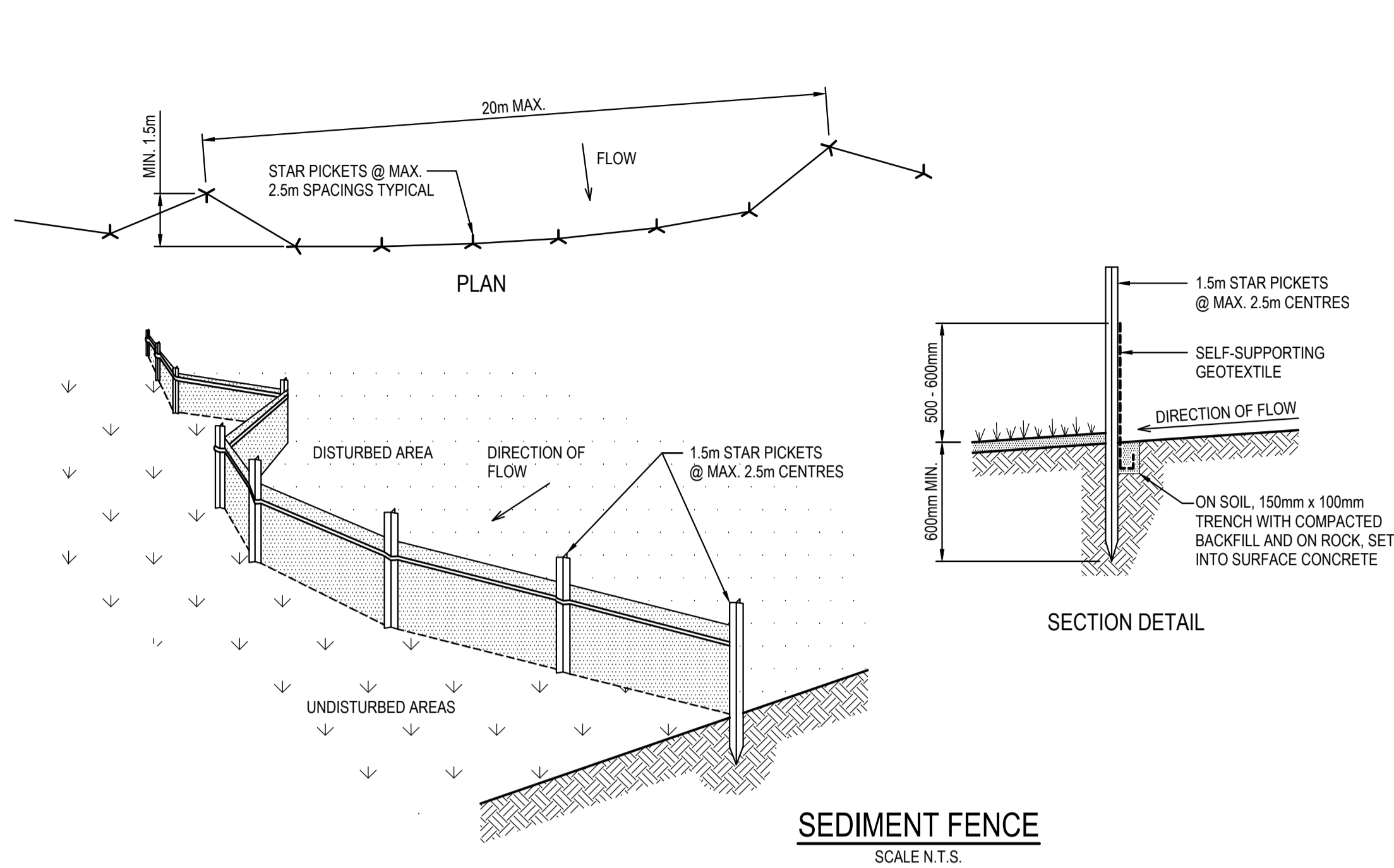


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
SEDIMENT AND EROSION CONTROL PLAN
SHEET 4 OF 4

Drawn	Designed	Original issue date
M.Pereira	N.Wetzlar	45413
Checked N.Wetzlar	Approved A.Francis	Scale: B1 1:2000
Drawing number 240518_DA_SE04		Revision 04

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SEDIMENT FENCE CONSTRUCTION NOTES:

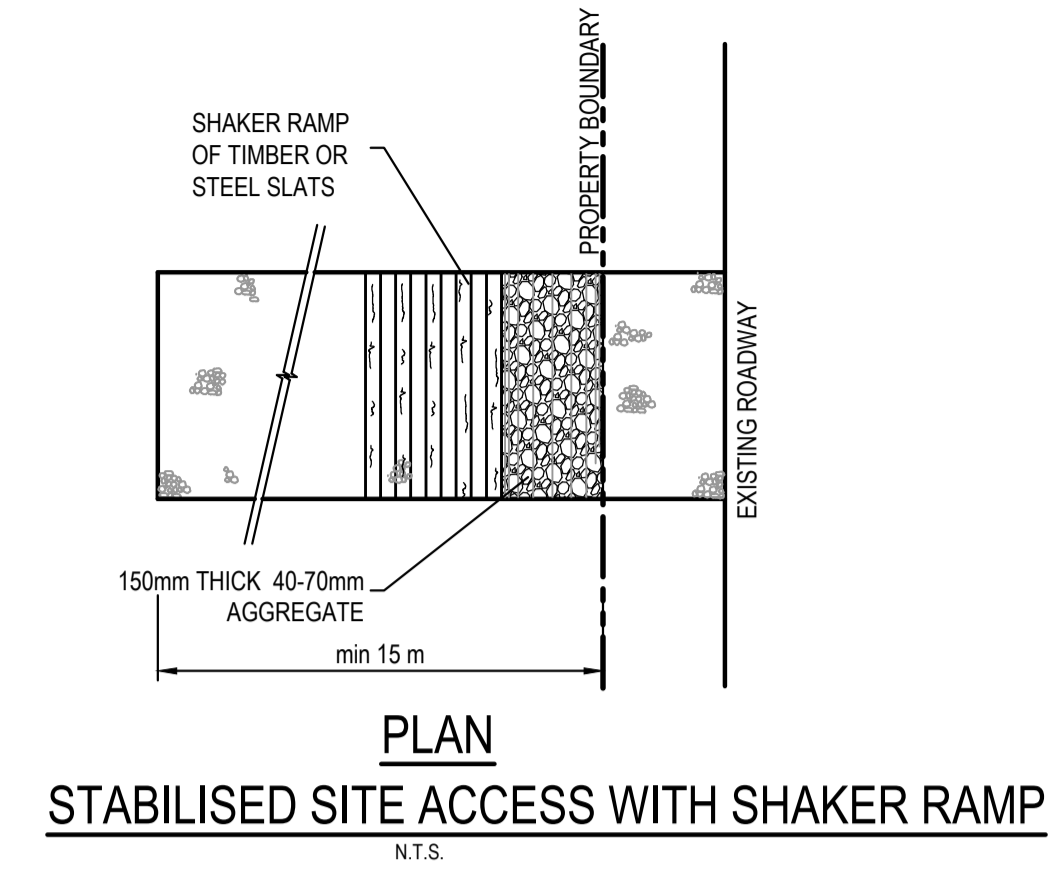
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

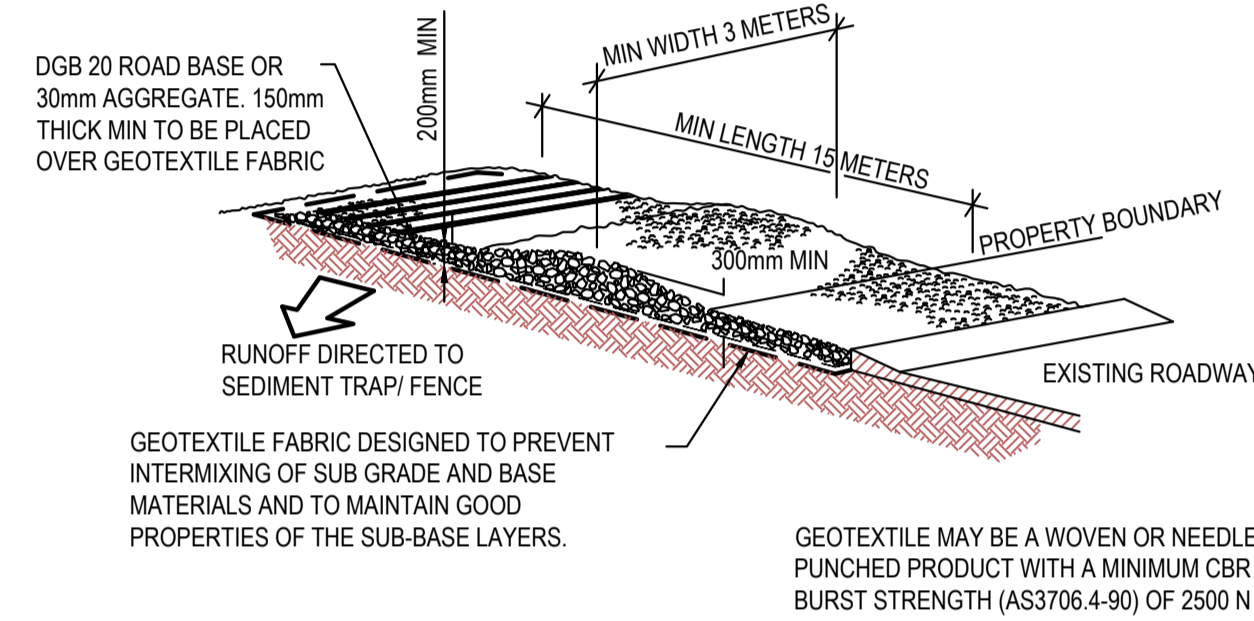
1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER

SCALE N.T.S.



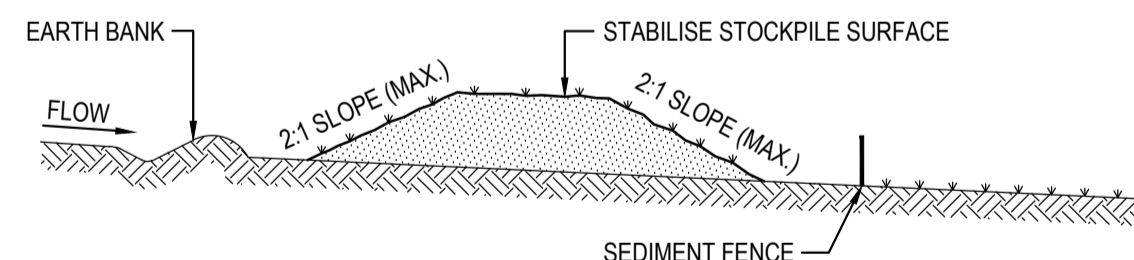
CONSTRUCTION SITE



STABILISED SITE ACCESS WITH SHAKER RAMP
N.T.S.

NOTES:

1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

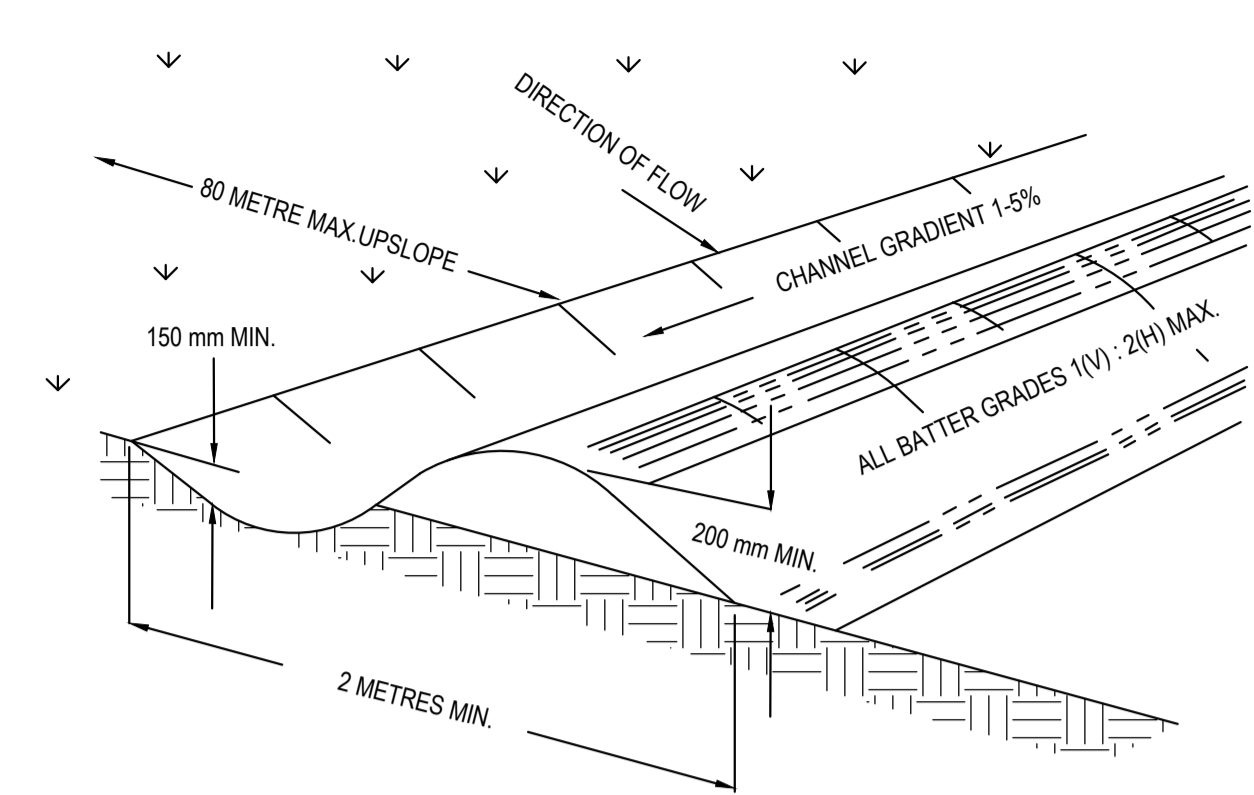


STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SCALE N.T.S.



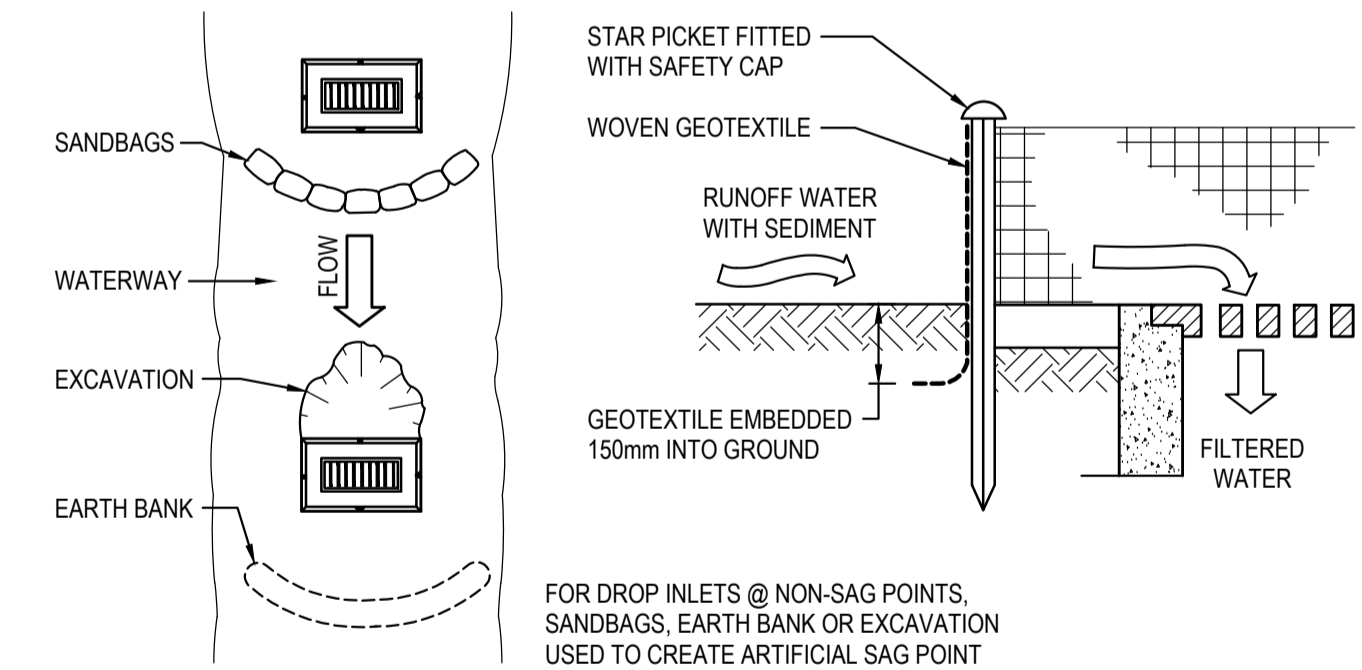
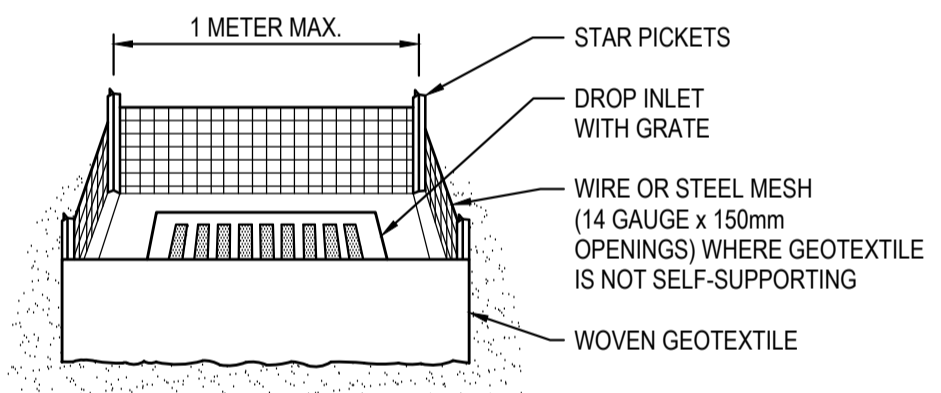
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAC UPSLOPE LENGTH IS 80 METERS.

CATCH DRAIN CONSTRUCTION NOTES:

1. CONSTRUCT ALONG GRADIENT AS SPECIFIED.
2. MAXIMUM SPACING BETWEEN BANKS SHALL BE 80 METRES.
3. DRAINS TO BE OF PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.
4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
5. CONSTRUCTION IS OF A TEMPORARY NATURE AND SHALL BE COMPACTED AT THE END A DAYS WORK OR IMMEDIATELY PRIOR RAIN.
6. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO SEDIMENT BASIN OR SIMILAR.
7. DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL AISTE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.
8. COMPACT WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
9. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.

CATCH DRAINS

SCALE N.T.S.



GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SCALE N.T.S.

ISSUED FOR SSDA

SURVEY INFORMATION

SURVEYED BY: L.T.S.L.					
DATUM: AHD	04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
ORIGIN OF LEVELS: PMZ5501, RL59.659	03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024
REVISION	02	ISSUED FOR CONCEPT	MP	NW	06.09.2024
	01	ISSUED FOR CONCEPT	MP	NW	16.06.2024

Client
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Architect / Surveyor
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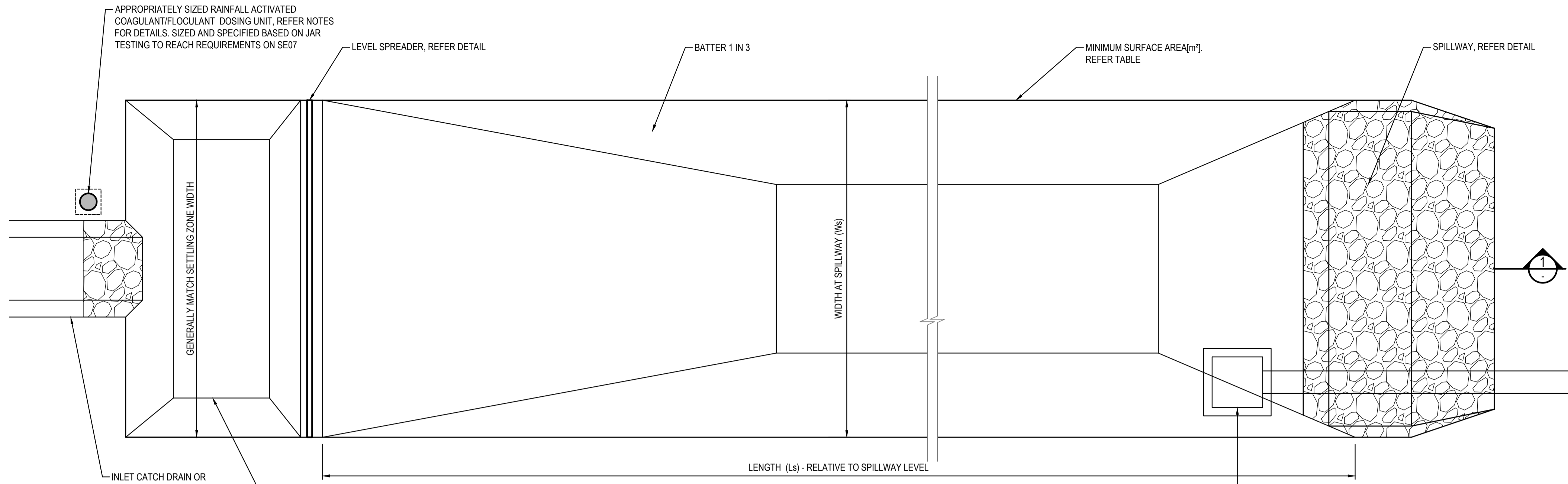


Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title
SEDIMENT AND EROSION CONTROL DETAILS

Drawn M.Pereira	Designed N.Wetzlar	Original Issue Date 45413
Checked N.Wetzlar	Approved A.Francis	Scale @ A1 NTS
Drawing number 240518_DA_SE05	Revision 04	

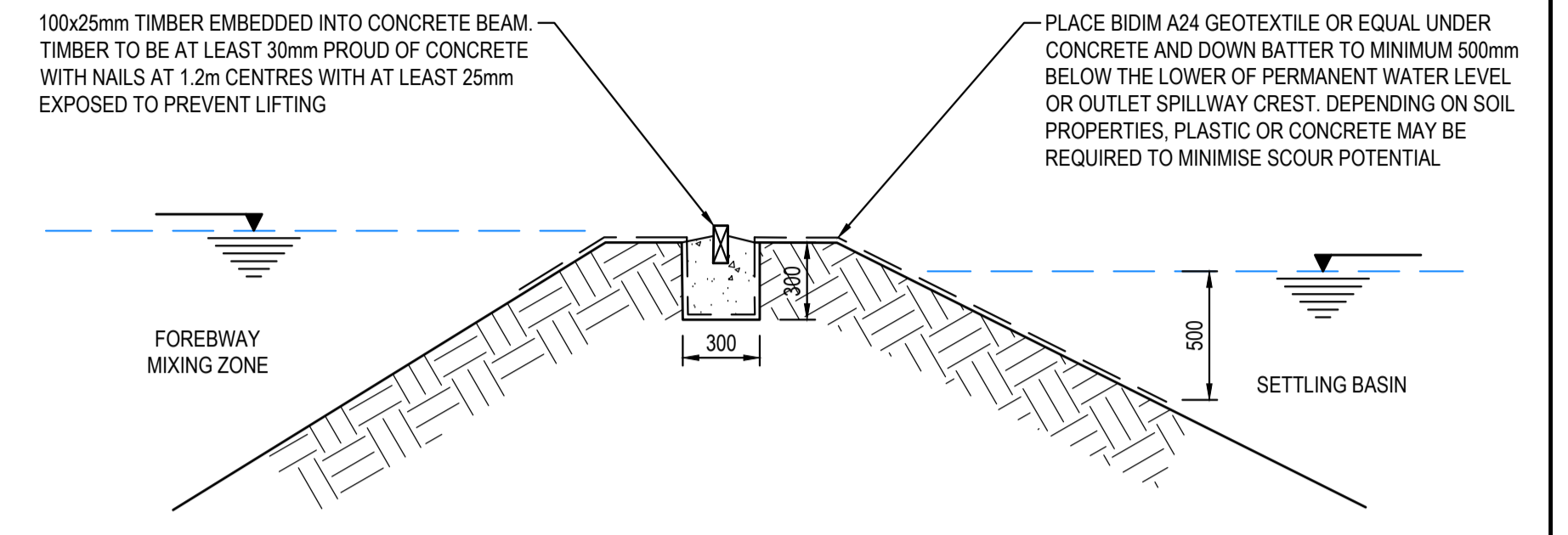
DRAWING TO BE PRINTED IN COLOUR

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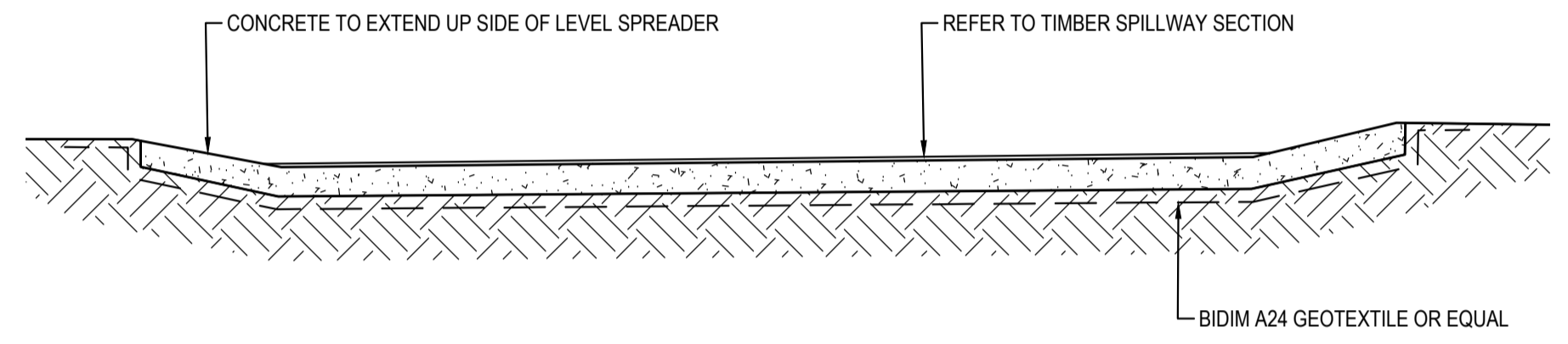


INDICATIVE SEDIMENT BASIN (TYPE B) - PLAN
N.T.S.

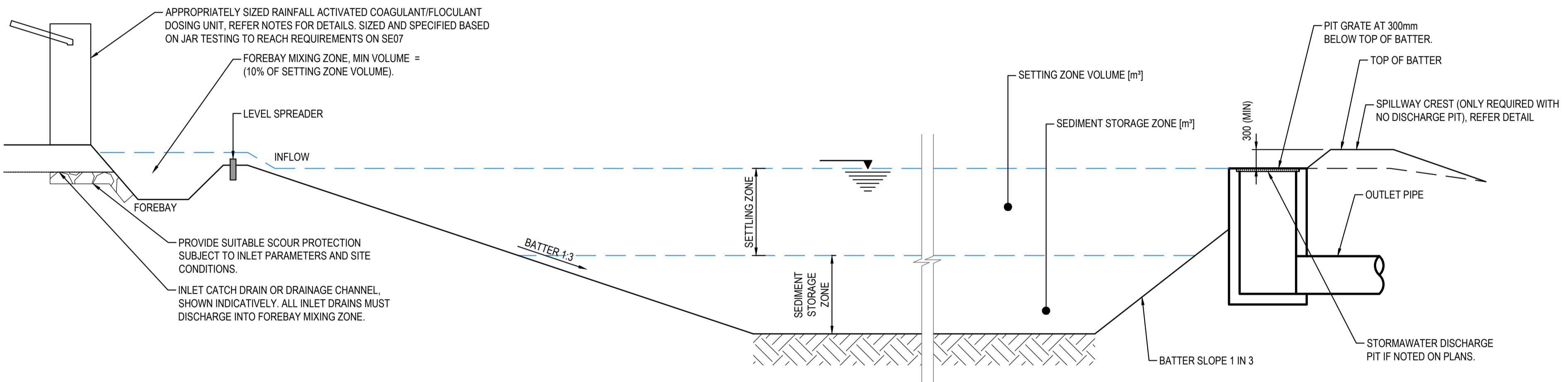
- NOTES:
1. REFER TO TABLE ON SE07 FOR SEDIMENT BASIN PARAMETERS
 2. REFER SE01-SE04 FOR INDICATIVE BASIN LOCATION
 3. REFER SE07 FOR BASIN NOTES
 4. PLANNING PHASE ONLY, BASINS SIZING TO BE AMENDED FOLLOWING SITE SPECIFIC JAR TESTING



LEVEL SPREADER DETAILS - TYPICAL CROSS SECTION
N.T.S.

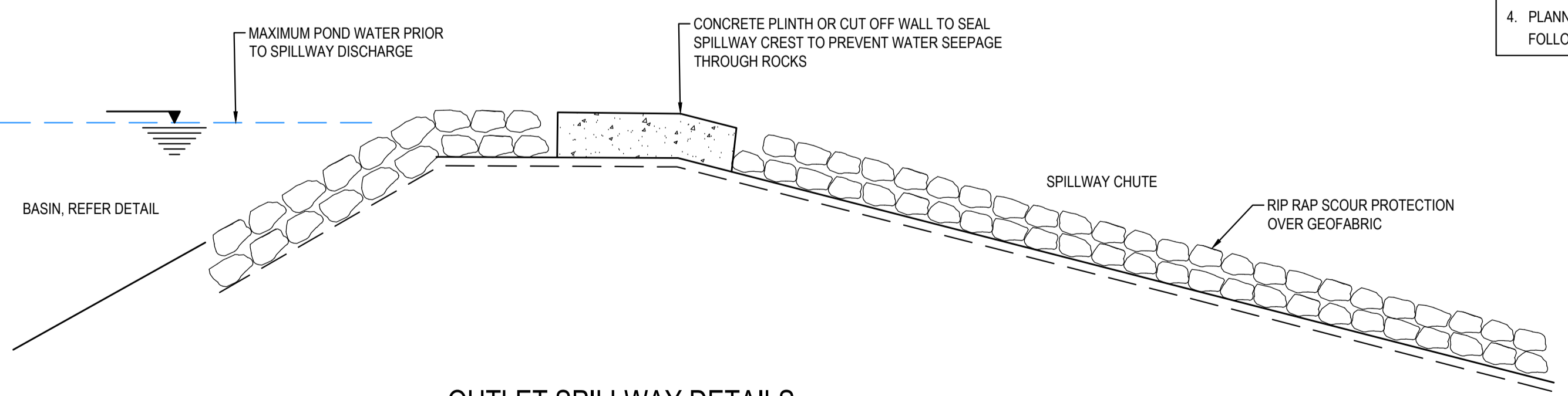


LEVEL SPREADER DETAILS - TYPICAL LONG SECTION
N.T.S.

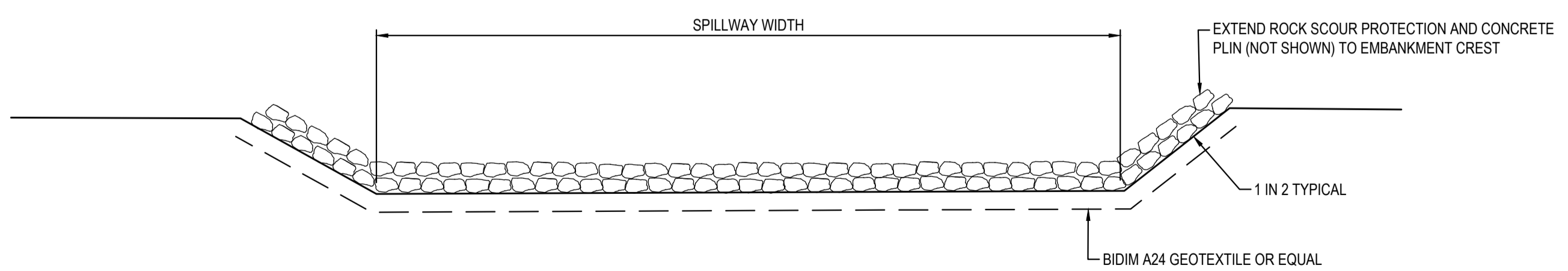


INDICATIVE SEDIMENT BASIN - SECTION 1
N.T.S.

- NOTES:
1. REFER TO TABLE ON SE07 FOR SEDIMENT BASIN PARAMETERS
 2. REFER SE01-SE04 FOR INDICATIVE BASIN LOCATION
 3. REFER SE07 FOR BASIN NOTES
 4. PLANNING PHASE ONLY, BASINS SIZING TO BE AMENDED FOLLOWING SITE SPECIFIC JAR TESTING



OUTLET SPILLWAY DETAILS - TYPICAL CROSS SECTION
N.T.S.



OUTLET SPILLWAY DETAILS - TYPICAL LONG SECTION
N.T.S.

ISSUED FOR SSSA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PM25501, RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW 06.06.2025
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY 15.10.2024
02	ISSUED FOR CONCEPT	Aln	NW 06.09.2024
01	ISSUED FOR CONCEPT	MP	NW 16.06.2024
REVISION	AMENDMENT	DRAWN	DESIGNED

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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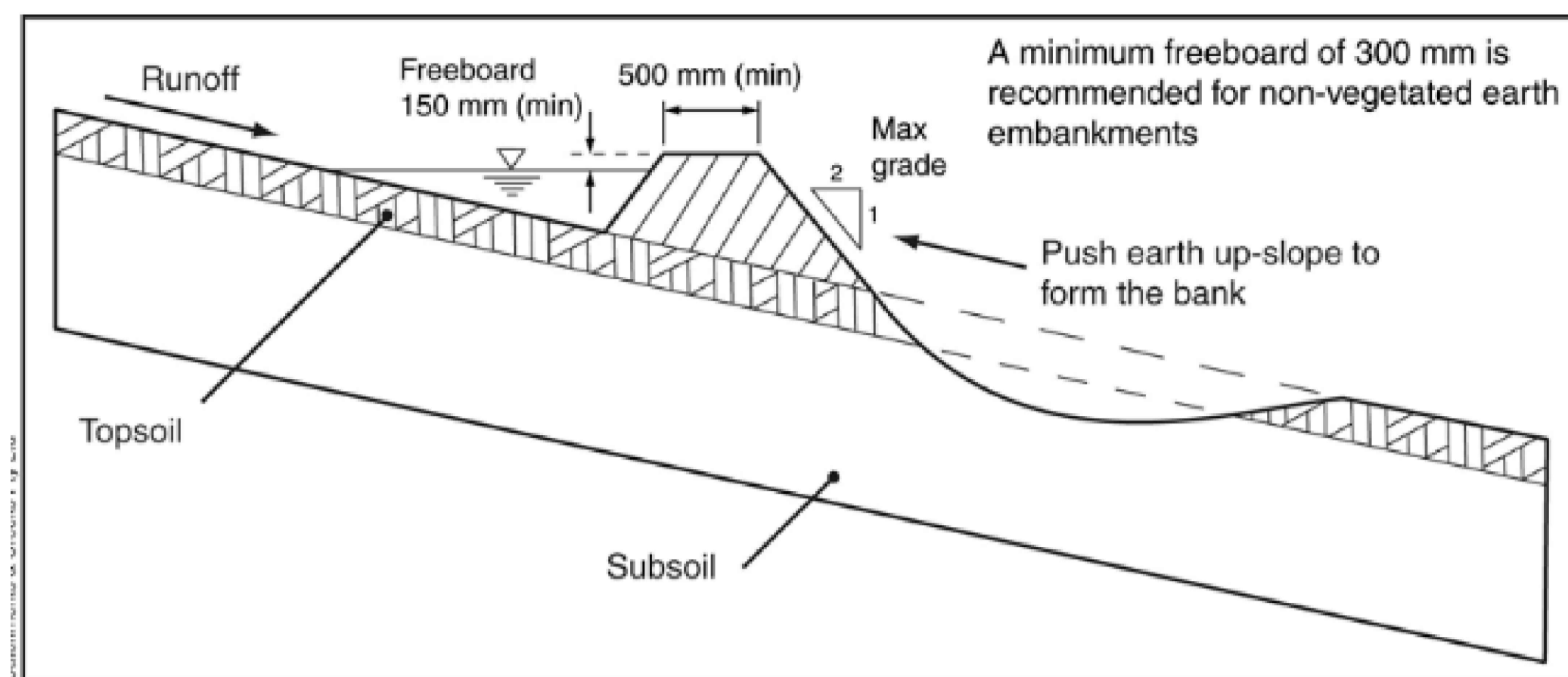
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoonsuit.com.au Web www.henryandhymas.com.au
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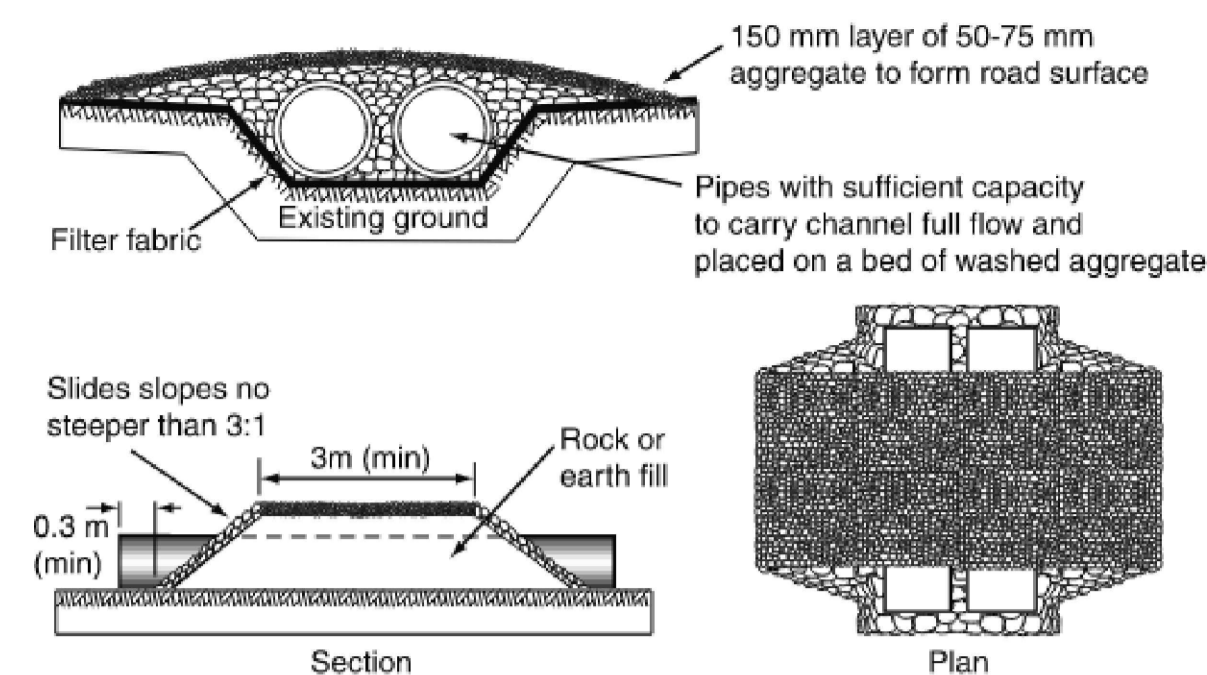
Project	BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW
Title	TYPE A BASIN TYPICAL PLAN, SECTION AND DETAILS

Drawn	M.Pereira	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	NTS
Drawing number	240518_DA_SE06			Revision	04

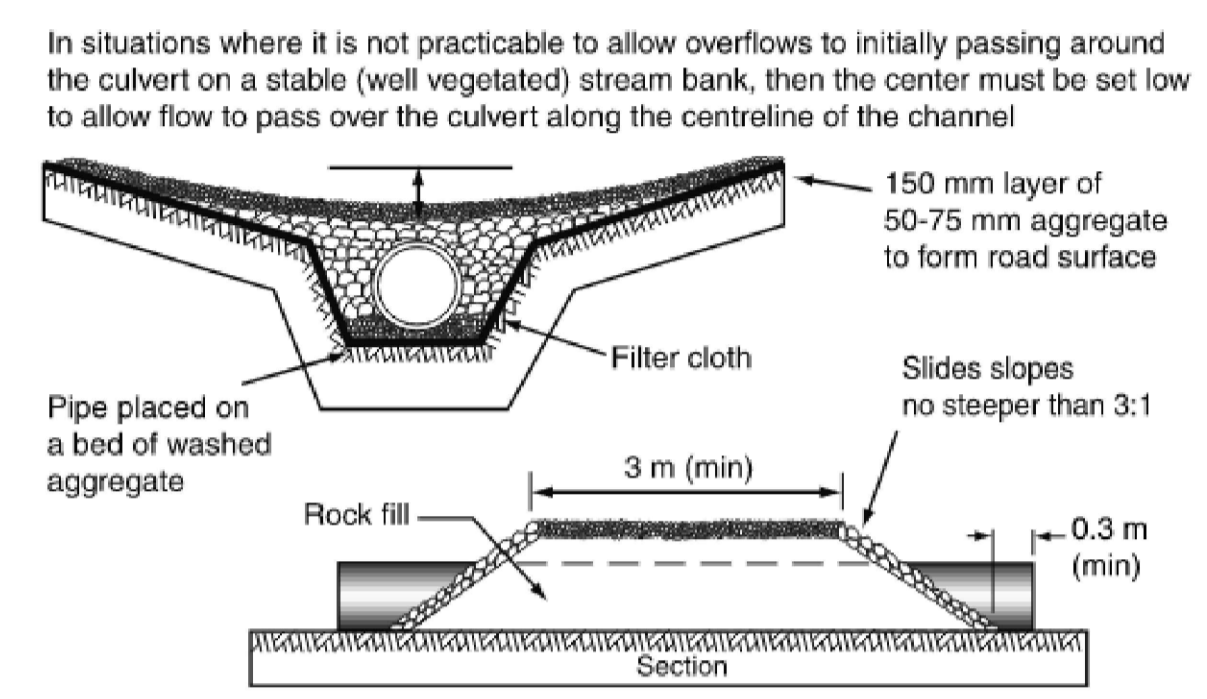
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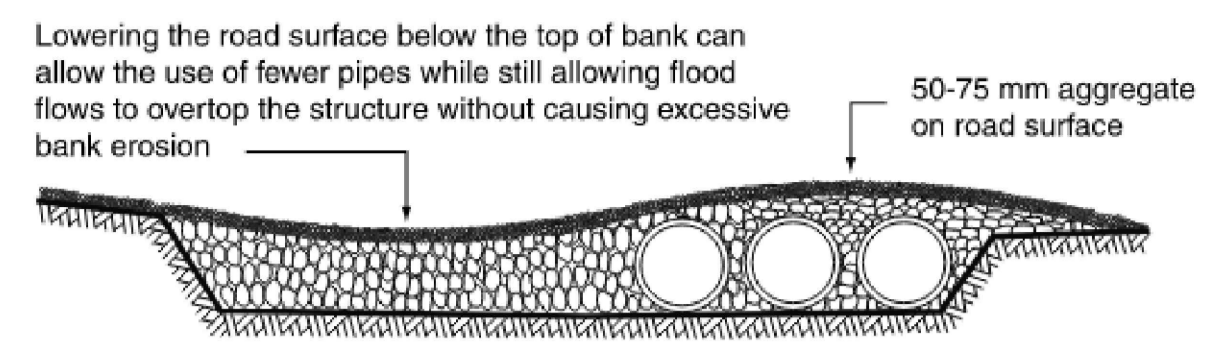
SEDIMENT AND EROSION CONTROL - PUSH BANK FLOW DIVERSION BANK DETAIL
SCALE: NTS



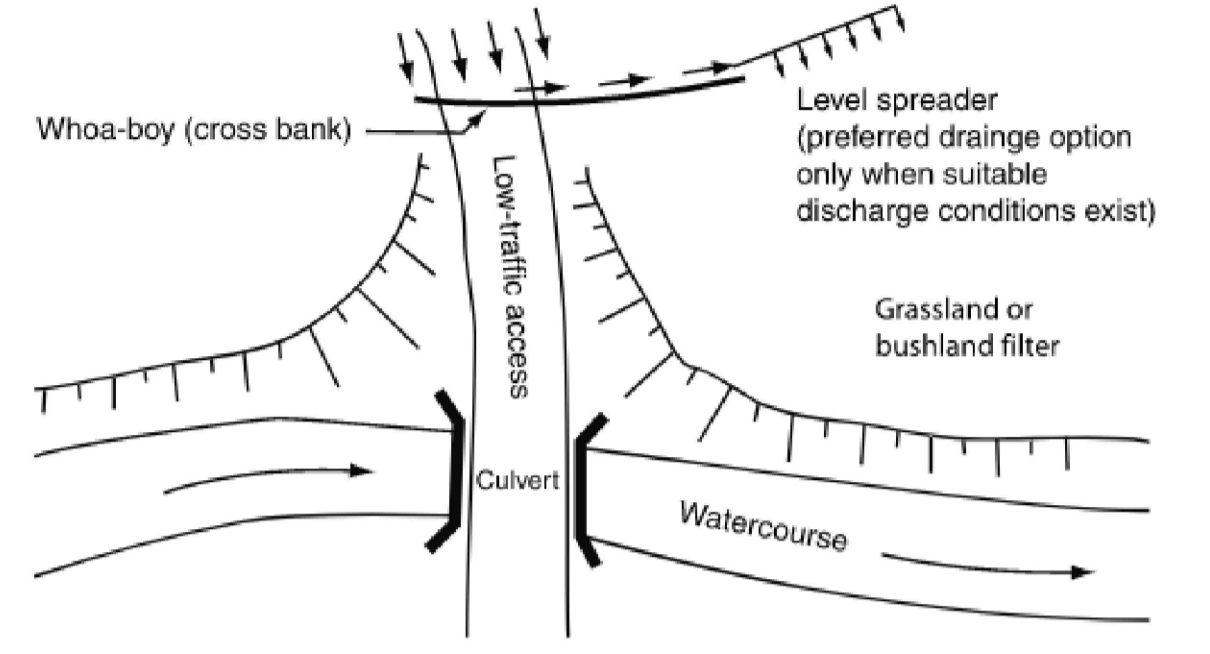
(a) Preferred arrangement for temporary culvert crossings



(c) Alternative layout for the crossing of confined channels



(b) Typical profile of temporary culvert crossings of wide channels



(d) Typical arrangement of surface runoff controls associated with approach ramps

INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION, EXTENT, AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- CLEAR THE LOCATION FOR THE BANK, CLEARING ONLY THE AREA THAT IS NEEDED TO PROVIDE ACCESS FOR PERSONNEL AND EQUIPMENT.
- REMOVE ROOTS, STUMPS, AND OTHER DEBRIS AND DISPOSE OF THEM PROPERLY. DO NOT USE DEBRIS TO BUILD THE BANK.
- FORM THE BANK FROM THE MATERIAL, AND TO THE DIMENSION SPECIFIED IN THE APPROVED PLANS.
- IF EARTH IS USED, THEN ENSURE THE SIDES OF THE BANK ARE NO STEEPER THAN A 2:1 (H:V) SLOPE, AND THE COMPLETED BANK MUST BE AT LEAST 500mm HIGH.
- IF FORMED FROM SANDBAGS, THEN ENSURE THE BAGS ARE TIGHTLY PACKED SUCH THAT WATER LEAKAGE THROUGH THE BAGS IS MINIMISED.
- CHECK THE BANK ALIGNMENT TO ENSURE POSITIVE DRAINAGE IN THE DESIRED DIRECTION.

- THE BANK SHOULD BE VEGETATED (TURFED, SEEDED AND MULCHED), OR OTHERWISE STABILISED IMMEDIATELY, UNLESS IT WILL OPERATE FOR LESS THAN 30 DAYS OR IF SIGNIFICANT RAINFALL IS NOT EXPECTED DURING THE LIFE OF THE BANK.
- ENSURE THE EMBANKMENT DRAINS TO A STABLE OUTLET, AND DOES NOT DISCHARGE TO AN UNSTABLE FILL SLOPE.

MAINTENANCE

- INSPECT FLOW DIVERSION BANKS AT LEAST WEEKLY AND AFTER RUNOFF-PRODUCING RAINFALL.
- INSPECT THE BANK FOR ANY SLUMPS, WHEEL TRACK DAMAGE OR LOSS OF FREEBOARD. MAKE REPAIRS AS NECESSARY.
- CHECK THAT FILL MATERIAL OR SEDIMENT HAS NOT PARTIALLY BLOCKED THE DRAINAGE PATH UP-SLOPE OF THE EMBANKMENT. WHERE NECESSARY, REMOVE ANY DEPOSITED MATERIAL TO ALLOW FREE DRAINAGE.
- DISPOSE OF ANY COLLECTED SEDIMENT OR FILL IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.
- REPAIR ANY PLACES IN THE BANK THAT ARE WEAKENED OR IN RISK OF FAILURE.

REMOVAL

- WHEN THE SOIL DISTURBANCE ABOVE THE BANK IS FINISHED AND THE AREA IS STABILISED, THE FLOW DIVERSION BANK SHOULD BE REMOVED, UNLESS IT IS TO REMAIN AS A PERMANENT DRAINAGE FEATURE.
- DISPOSE OF ANY SEDIMENT OR EARTH IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.
- GRADE THE AREA AND SMOOTH IT OUT IN PREPARATION FOR STABILISATION.
- STABILISE THE AREA BY GRASSING OR AS SPECIFIED IN THE APPROVED PLAN.

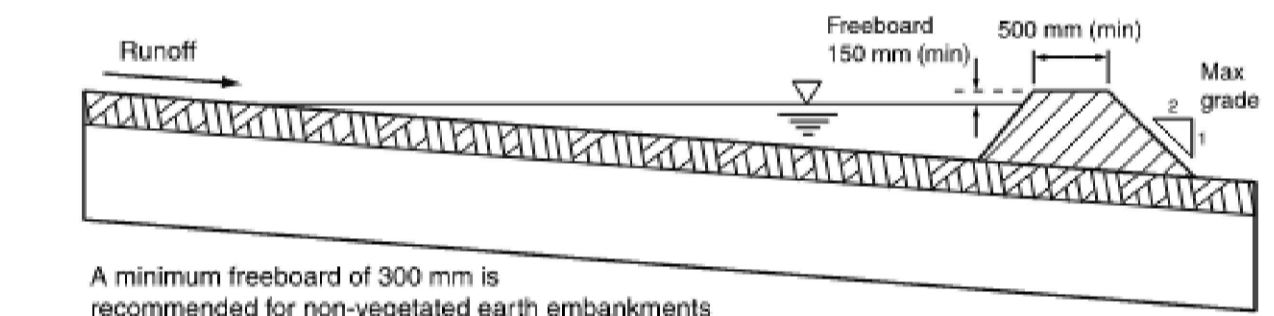


Figure 1 - Typical profile of flow diversion bank formed from earth

Table 1 - Recommended dimensions of flow diversion banks

Parameter	Earth banks	Vegetated banks	Compost berms	Sandbag berms
Height (min)	500 mm	500 mm	300 mm	N/A
Top width (min)	500 mm	500 mm	100 mm	N/A
Base width (min)	2500 mm	2500 mm	600 mm	N/A
Side slope (max)	2:1 (H:V)	2:1 (H:V)	1:1 (H:V)	N/A
Freeboard	300 mm	150 mm	100 mm	50 mm

Drawn:	Date:	Project:	Sheet:
GMW	Dec-09	Flow Diversion Banks	DB-01

SEDIMENT AND EROSION CONTROL - PUSH BANK FLOW DIVERSION BANK NOTES
SCALE: NTS

HIGHLY DISPERSIVE SOILS

THE FOLLOWING ALLOWANCES HAVE BEEN MADE TO ACCOUNT FOR HIGHLY DISPERSIVE SOILS TYPICAL OF THE REGION. UNDERTAKE TESTING FOR HIGHLY DISPERSIVE SOILS AND UPDATE THE SEDIMENT AND EROSION CONTROL PLAN FOR THE FOLLOWING IF PRESENT:

- FLOW DIVERSION BANKS ARE TO BE SPECIFIED IN LEU OF CATCH DRAINS TO DIVERT FLOWS TO SEDIMENT BASINS. BACK-PUSH BANKS ARE FORMED BY PUSHING MATERIAL UP-SLOPE TO FORM A FLOW DIVERSION BANK. IN SUCH CASES THE DIVERTED WATER FLOWS UP-SLOPE OF THE EMBANKMENT INSTEAD OF WITHIN AN EXCAVATED TRENCH REDUCING THE LIKELIHOOD OF ENCOUNTERING HIGHLY DISPERSIVE SUBSOILS.
- ALL FLOW DIVERSION BANKS SHOULD HAVE A STABLE OUTLET AND SEEDED AND MULCHED IF THERE WORKING LIFE IS EXPECTED TO EXCEED 30 DAYS, OR AS REQUIRED BY THE SEDIMENT AND CONTROL STANDARD.
- DISPERSIVE SOILS ARE HIGHLY SUSCEPTIBLE TO DEEP, NARROW RILLING ON EXPOSED SLOPES. THESE SOILS MUST BE APPROPRIATELY TREATED OR BURIED UNDER AN APPROPRIATE LAYER OF NON-DISPERSIVE SOIL (USUALLY 100MM MIN) BEFORE PLACING ANY EROSION CONTROL MEASURES.
- A PRACTICE BECOMING INCREASINGLY COMMON IS TO USE THE STRIPPED TOPSOIL TO FORM FLOW DIVERSION BANKS UPSLOPE OF THE SOIL DISTURBANCE, INSTEAD OF PLACING THE TOPSOIL ON STOCKPILES.
- ADJUST SOIL ERODIBILITY (K-FACTOR) FOR AN ADDITION 20% FOR HIGHLY DISPERSIVE SOILS.
- TOPSOIL AND VEGETATION: CONSIDER TREATMENT (E.G. GYPSUM) PRIOR TO VEGETATION OR SEEDING SUBJECT TO SITE REQUIREMENTS.
- AVOID EXPOSING DISPERSIVE SOILS. IF EXPOSED THESE SOILS SHOULD BE TREATED TO STABILIZE THEIR DISPERSIVE NATURE OR BURIED BENEATH A LAYER OF NON DISPERSIVE SOILS.
- BENCHES CUT INTO DISPERSIVE OR SILTY SOILS HAVE A HIGH RISK OF TUNNEL EROSION AND SLOPE FAILURE. DISPERSIVE NATURE OF SOIL IS TO BE INVESTIGATED IF ENCOUNTERED ONSITE AND BENCHING DESIGN APPROPRIATELY UPDATED IF ENCOUNTERED.

SEDIMENT AND EROSION CONTROL - TEMPORARY CULVERT CROSSING DETAIL
SCALE: NTS

MATERIALS

- CULVERTS:** ANY COMMERCIAL CONDUIT THAT IS SUITABLE FOR THE REQUIRED TRAFFIC LOADING.
- ROCK:** MINIMUM 150mm NOMINAL ROCK SIZE.
- AGGREGATE:** 50-75mm CLEAN AGGREGATE.
- GEOTEXTILE FABRIC:** HEAVY-DUTY, NEEDLE-PUNCHED, NON-WOVEN FILTER CLOTH (MINIMUM BIDIM A34 OR EQUIVALENT).

INSTALLATION

- PRIOR TO COMMENCING ANY WORKS, OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED TO CONSTRUCT THE TEMPORARY WATERCOURSE CROSSING, INCLUDING PERMITS FOR THE DISTURBANCE OF BANK VEGETATION, AQUATIC VEGETATION (E.G. MANGROVES) AND ANY TEMPORARY INSTREAM FLOW DIVERSION BARRIERS OR SEDIMENT CONTROL MEASURES.
- REFER TO APPROVED PLANS FOR LOCATION AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- ENSURE THAT THE LOCATION OF THE CROSSING WILL NOT INTERFERE WITH FUTURE CONSTRUCTION WORKS.
- PRIOR TO SIGNIFICANT LAND CLEARING OR CONSTRUCTION OF THE APPROACH RAMP, ESTABLISH ALL NECESSARY SEDIMENT CONTROL MEASURES AND FLOW DIVERSION WORKS (INSTREAM AND OFF-STREAM AS REQUIRED), CLEARING ONLY THOSE AREAS NECESSARY FOR INSTALLATION OF THESE MEASURES.
- TO THE MAXIMUM DEGREE PRACTICABLE, CONSTRUCTION ACTIVITIES AND EQUIPMENT MUST NOT OPERATE WITHIN OPEN FLOWING WATERS.
- MAINTAIN CLEARING AND EXCAVATION OF THE WATERCOURSE BED AND BANKS TO A MINIMUM. INITIALLY CLEAR ONLY THE AREA

NECESSARY TO ALLOW ACCESS FOR CONSTRUCTION. CLEAR THE REMAINDER OF THE APPROACH RAMP ONLY WHEN ADEQUATE DRAINAGE AND SEDIMENT CONTROLS ARE IN PLACE.

- IF FLOW DIVERSION SYSTEMS CANNOT BE INSTALLED, THEN CONDUCT BANK EXCAVATIONS BY PULLING THE SOIL AWAY FROM THE CHANNEL.
- WHERE PRACTICABLE, CONSTRUCT THE WATERCOURSE CROSSING PERPENDICULAR TO THE CHANNEL.
- WHERE PRACTICABLE, THE APPROACH RAMP SHOULD BE STRAIGHT FOR AT LEAST 10m AND SHOULD BE ALIGNED WITH THE CROSSING.
- WHERE PRACTICABLE, DIRECT STORMWATER RUNOFF FROM THE APPROACH RAMP INTO STABLE DRAINS, ADJACENT VEGETATION, OR APPROPRIATE SEDIMENT TRAPS TO MINIMISE THE RELEASE OF SEDIMENT INTO THE WATERCOURSE.
- SHAPE THE CHANNEL, IF NECESSARY, TO RECEIVE THE PIPE/S.
- IF HIGHLY EROSION SOILS ARE DETECTED, THEN APPROPRIATELY STABILISE SUCH SOILS AS SOON AS PRACTICABLE.
- COVER THE CROSSING FOOTING WITH HEAVY-DUTY FILTER CLOTH.
- COVER THE FILTER CLOTH WITH A MINIMUM 150mm OF CLEAN, 50 TO 75mm AGGREGATE.
- PLACE THE SPECIFIED SIZE AND NUMBER OF CULVERT CELLS AND ALIGN THEM WITH THE DIRECTION OF THE DOWNSTREAM CHANNEL.
- ENSURE THE PIPES EXTEND AT LEAST 300mm BEYOND THE PROPOSED EXTEND OF ROCK FILL.
- FILL BETWEEN THE PIPE/S WITH 75 TO 100mm AGGREGATE.

- COVER PIPE/S WITH SUFFICIENT ROCK (MINIMUM 300mm LAYER) TO SATISFY MANUFACTURER'S LOADING REQUIREMENTS TO AVOID DAMAGE TO THE PIPE/S RESULTING FROM THE EXPECTED TRAFFIC LOAD. SLOPE OF ROCK FACE UPSTREAM AND DOWNSTREAM OF THE CULVERT NO STEEPER THAN 3:1 (H:V).
- FORM THE SHAPE OF THE ROAD SURFACE IN ACCORDANCE WITH THE PLANS AND/OR STANDARD DRAWINGS.
- APPLY A SUITABLE COVER OF AGGREGATE OVER THE ROCK FILL TO FORM THE TRAFFICABLE ROAD SURFACE.
- FINISH CONSTRUCTION AND STABILISATION OF THE APPROACH ROADS INCLUDING THE APPROACH RAMP EACH SIDE OF THE BRIDGE CROSSING.
- TAKE ALL REASONABLE MEASURES TO PREVENT EXCESS ROCK, DEBRIS AND CONSTRUCTION MATERIAL FROM ENTERING THE WATERCOURSE, ESPECIALLY ANY STILL OR FLOWING WATER.
- IF IT IS NOT PRACTICABLE TO STABILISE THE ACCESS RAMPS AGAINST EROSION, THEN INSTALL FLOW DIVERSION BANKS ACROSS THE WIDTH OF EACH ACCESS RAMP ADJACENT THE TOP OF THE CHANNEL BANK, AND AT REGULAR INTERVALS DOWN THE RAMPS (AS REQUIRED) TO PREVENT OR MINIMISE SEDIMENT-LADEN RUNOFF FLOWING DIRECTLY INTO THE WATERCOURSE.
- APPROPRIATELY STABILISE ANY DISTURBED WATERCOURSE BANKS.
- STABILISE ALL DISTURBED AREAS THAT ARE LIKELY TO BE SUBJECT TO FLOWING WATER, INCLUDING BYPASS AND OVERFLOW AREAS, WITH ROCK OR OTHER SUITABLE MATERIALS.

MAINTENANCE

- TEMPORARY WATERCOURSE CROSSINGS SHOULD BE INSPECTED WEEKLY AND AFTER ANY SIGNIFICANT CHANGE IN STREAM FLOW.
- DEBRIS TRAPPED ON OR UPSTREAM OF THE CROSSING SHOULD BE REMOVED.
- REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION TRAFFIC. IF TRAFFIC HAS EXPOSED BARE SOIL, STABILISE AS APPROPRIATE. MAINTAIN A MINIMUM 200mm COVER OVER THE CULVERTS.
- CHECK FOR EROSION OF THE FORMED EMBANKMENT, CHANNEL SCOUR, OR ROCK DISPLACEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY.
- CHECK THE BYPASS FLOODWAY MAKING SURE THE BANKS ARE STABLE.
- CHECK FOR EXCESSIVE EROSION ON THE APPROACH ROADS.
- CHECK THE CONDITIONS OF ANY FLOW DIVERSION CHANNELS/BANKS AND THE OPERATING CONDITIONS OF ASSOCIATED SEDIMENT TRAPS.

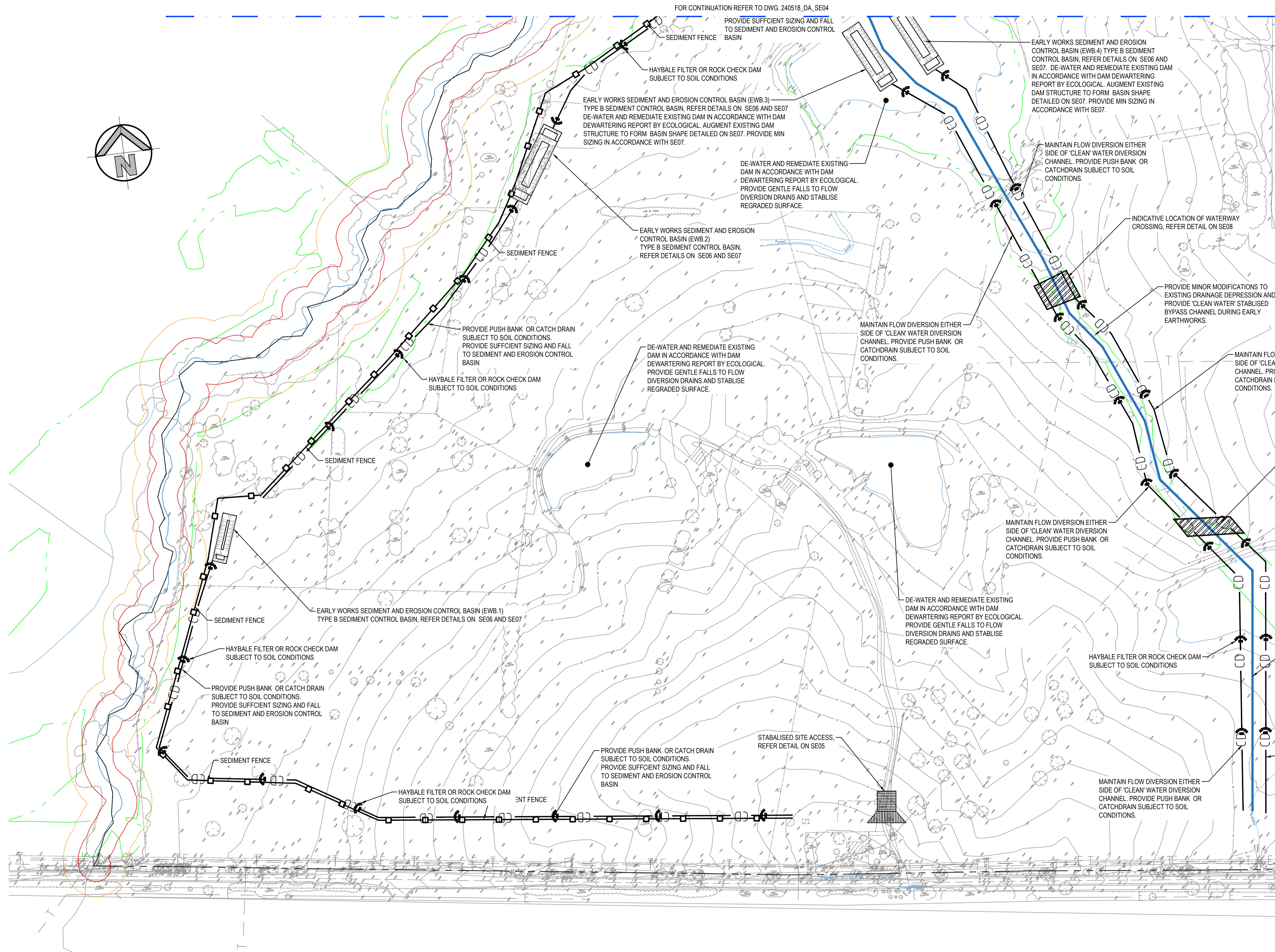
REMOVAL

- TEMPORARY WATERCOURSE CROSSINGS SHOULD BE REMOVED AS SOON AS POSSIBLE AFTER ALTERNATIVE ACCESS IS ACHIEVED OR THE CULVERT IS NO LONGER NEEDED.
- REMOVE ALL SPECIFIED MATERIALS AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- RESTORE THE WATERCOURSE CHANNEL TO ITS ORIGINAL CROSS-SECTION, AND SMOOTH AND APPROPRIATELY STABILISE AND REVEGETATE ALL DISTURBED AREAS.

SEDIMENT AND EROSION CONTROL - TEMPORARY CULVERT CROSSING NOTES
SCALE: NTS

ISSUED FOR SSDA

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SURVEYED BY: L.TSL				Architect / Surveyor NETTLETONTRIBE												Checked N.Wetzlar				Approved A.Francis				Scale @A1 AS NOTED							
DATUM/AHD				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				DRAWING TO BE PRINTED IN COLOUR				henry&hymas				Drawing number 240518_DA_SE08				Revision 01											
ORIGIN OF LEVELS: PMZ5501, RL59.659				REVISION				AMENDMENT				DRAWN				DESIGNED				DATE											
01				ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)				JG				NW				06.06.2025															



SEDIMENT AND EROSION CONTROL PLAN - EARLY WORKS

SCALE: 1:2000

ISSUED FOR SSDA

SURVEY INFORMATION	
SURVEYED BY:	LTSL
DATUM/AHD	
ORIGIN OF LEVELS:	PMZ5501, RL59.659

01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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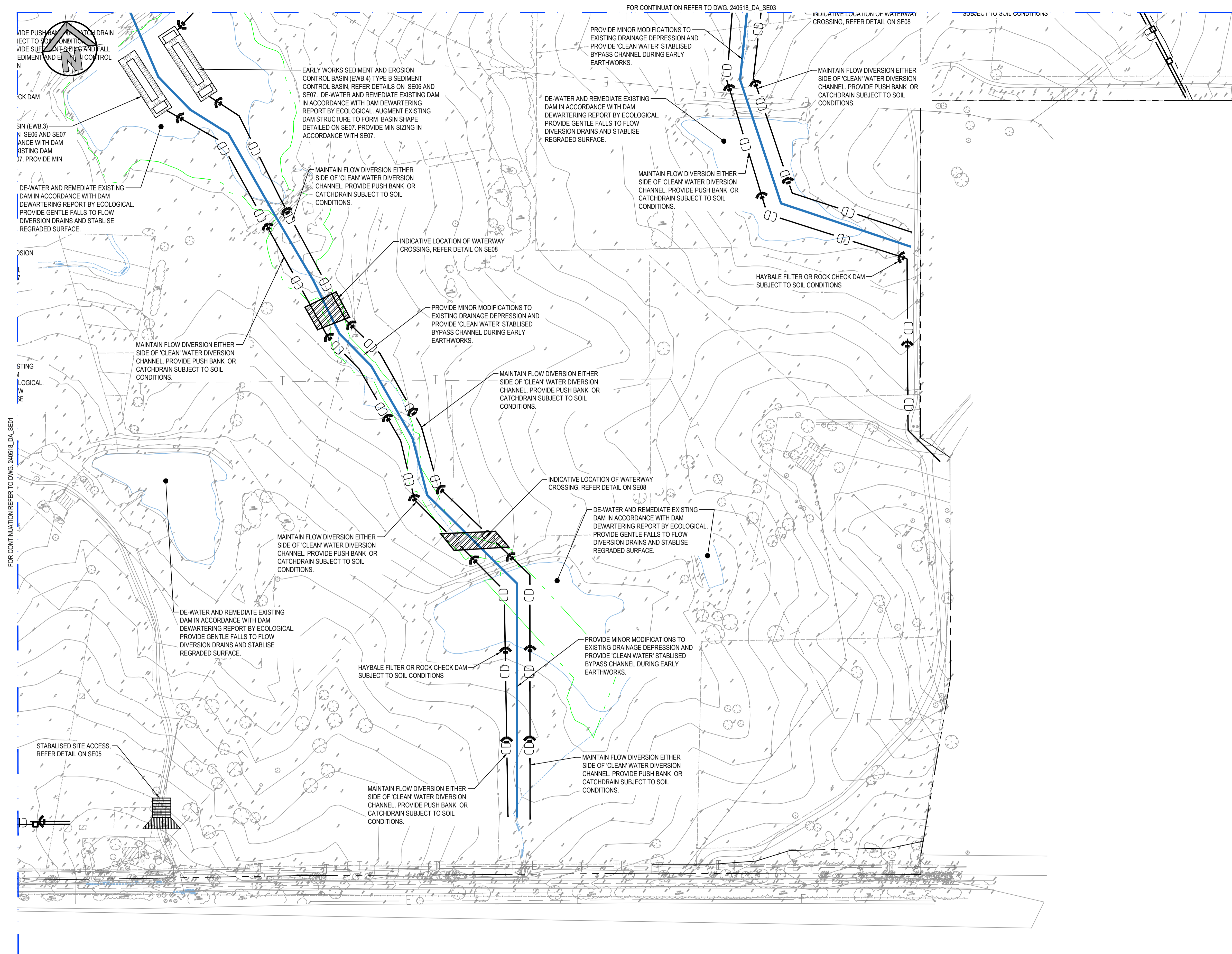
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@honyandhymas.com.au Web www.honyandhymas.com.au
--	--



Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Title	EARLY EARTHWORKS SEDIMENT AND EROSION CONTROL PLAN SHEET 1

Drawn	N.Wetzlar	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	@A1
Drawing number	240518_DA_SE11	Revision			01

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SEDIMENT AND EROSION CONTROL PLAN - EARLY WORKS

SCALE: 1:2000

ISSUED FOR SSSA

SURVEY INFORMATION	
SURVEYED BY:	LTSL
DATUM/AHD	
ORIGIN OF LEVELS:	PMZ5501, RL59 659

01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025					
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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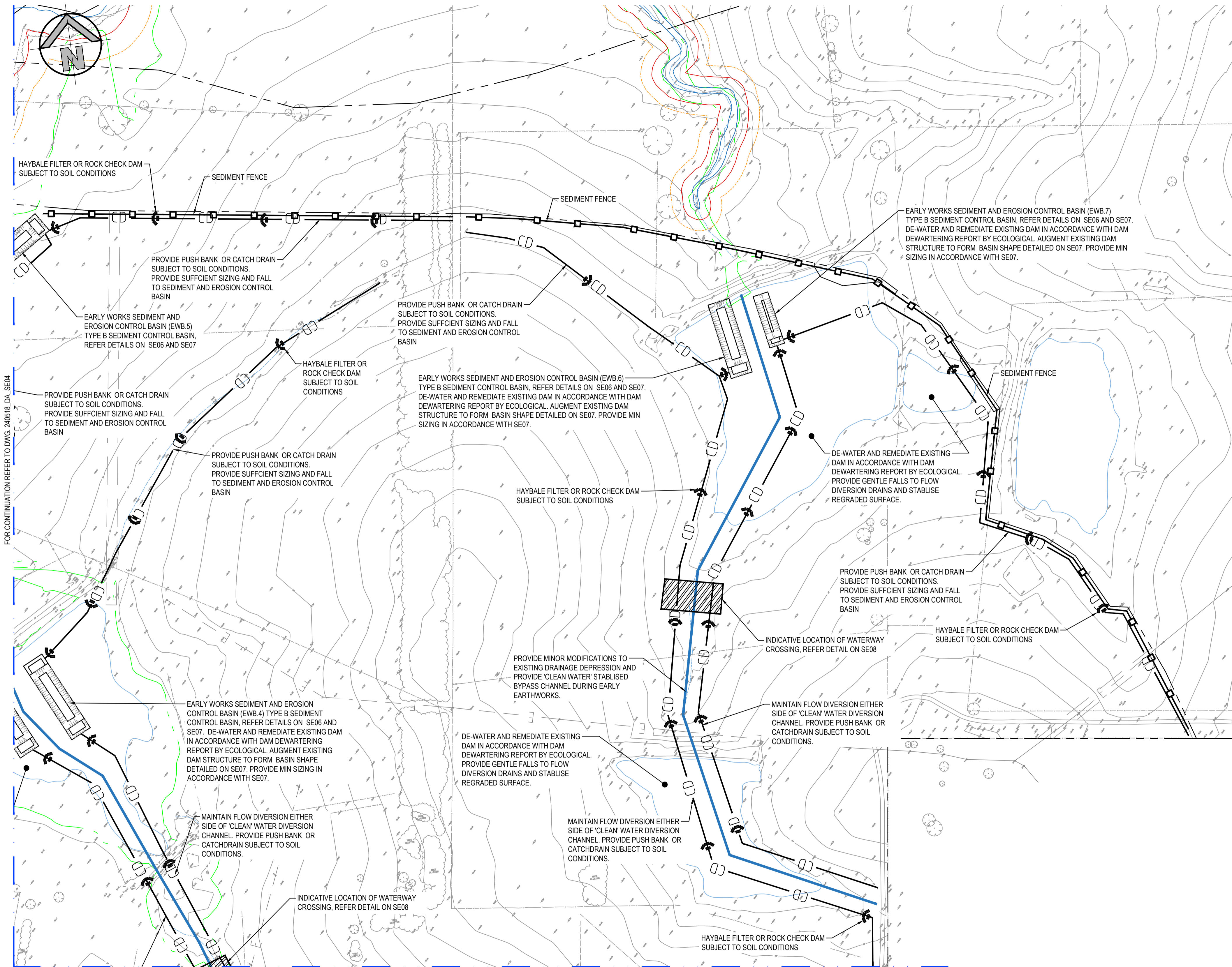
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoonsult.com.au Web www.henryandhymas.com.au
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Drawn	N.Wetzlar
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Drawing number	240518_DA_SE12
Revision	01

Original issue date	45413
Scale	@A1
AS NOTED	

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SEDIMENT AND EROSION CONTROL PLAN - EARLY WORKS

SCALE: 1:2000

ISSUED FOR SSSA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PMZ5501, RL59.659			
REVISION	AMENDMENT	DATE	DESIGNED
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	06.06.2025	JG

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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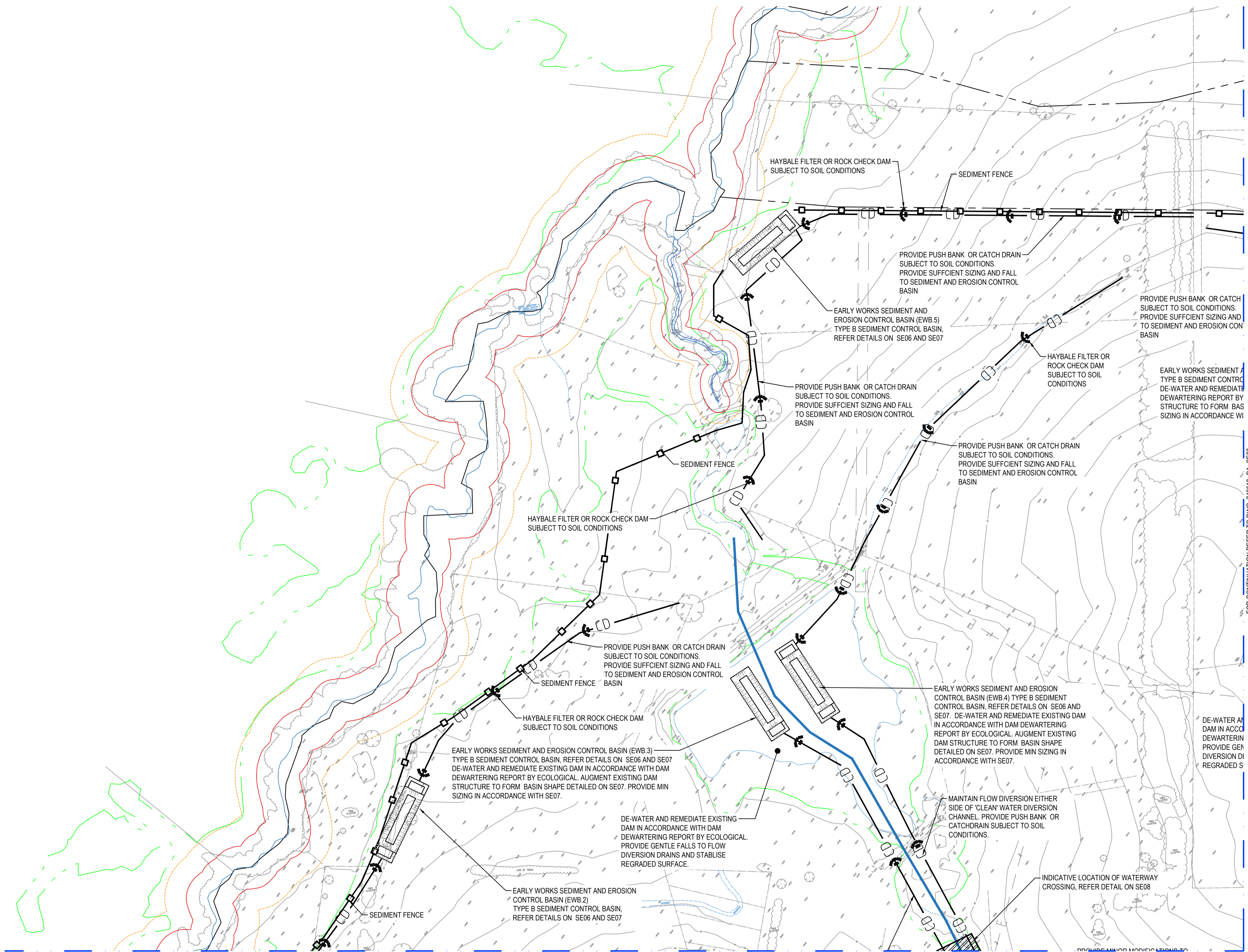
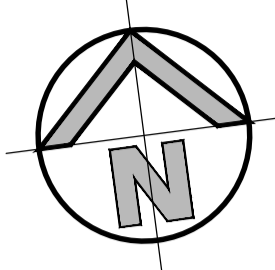
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@honsult.com.au Web www.henryandhymas.com.au
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Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Drawn	N.Wetzlar
Designed	N.Wetzlar
Checked	N.Wetzlar
Approved	A.Francis
Drawing number	240518_DA_SE13
Revision	01
Title EARLY EARTHWORKS SEDIMENT AND EROSION CONTROL PLAN SHEET 3	

Original issue date	45413
Scale	AS NOTED
Revision	01

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SEDIMENT AND EROSION CONTROL PLAN - EARLY WORKS

SCALE: 1:2000

FOR CONTINUATION REFER TO DWG. 240518_DA_SE01

FOR CONTINUATION REFER TO DWG. 240518_DA_SE03

ISSUED FOR SSDA

SURVEY INFORMATION	
SURVEYED BY:	LTSL
DATUM/AHD	
ORIGIN OF LEVELS:	PM25501, RL59.659

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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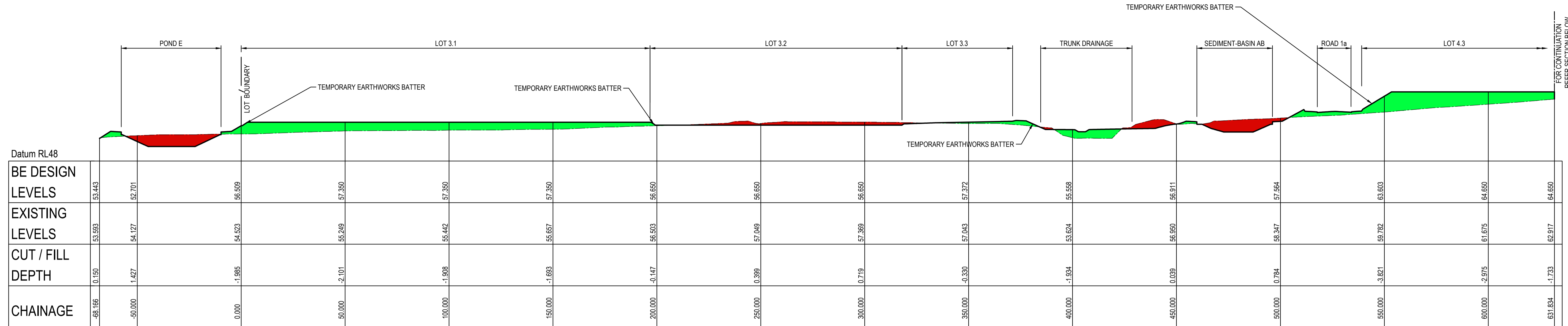
Suite 2.01 828 Pacific Highway Gordon NSW 2072	Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoonsuit.com.au Web www.henryandhymas.com.au
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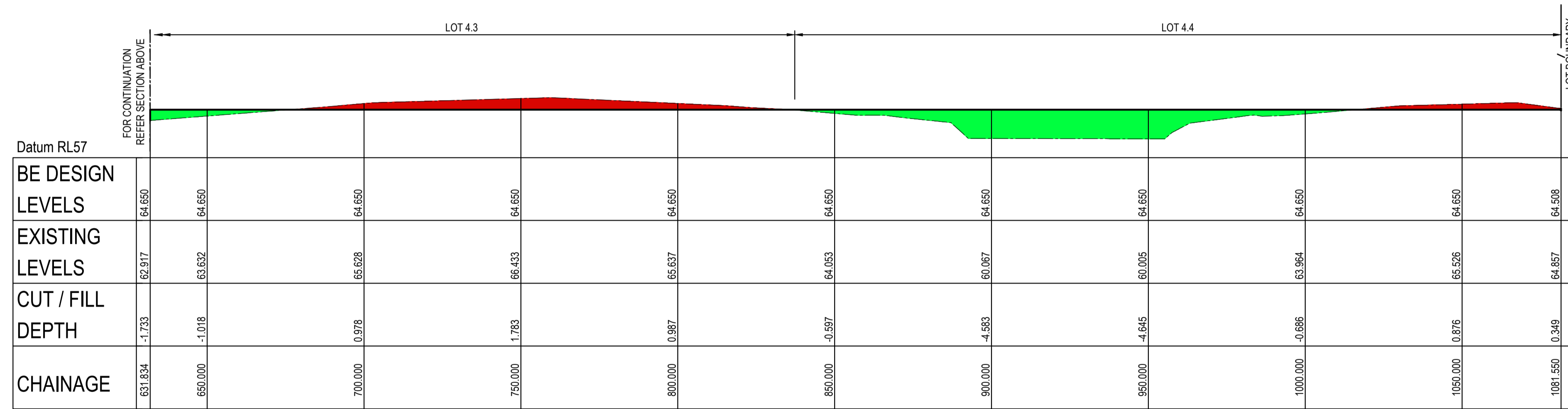
Project	BURRAH PARK ELIZABETH DRIVE, BADGERY'S CREEK, NSW
Title	EARLY EARTHWORKS SEDIMENT AND EROSION CONTROL PLAN SHEET 4

Drawn	N.Wetzlar	Designed	N.Wetzlar	Original issue date	45413
Checked	N.Wetzlar	Approved	A.Francis	Scale	1:1
Drawing number	240518_DA_SE14	Revision	01	AS NOTED	

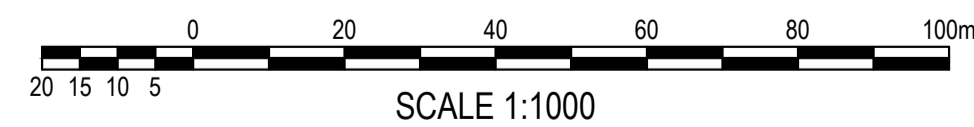
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2x VERTICAL EXAGGERATION
SECTION B
 SCALE: H 1:1000 @ A1
 V 1:500 @ A1

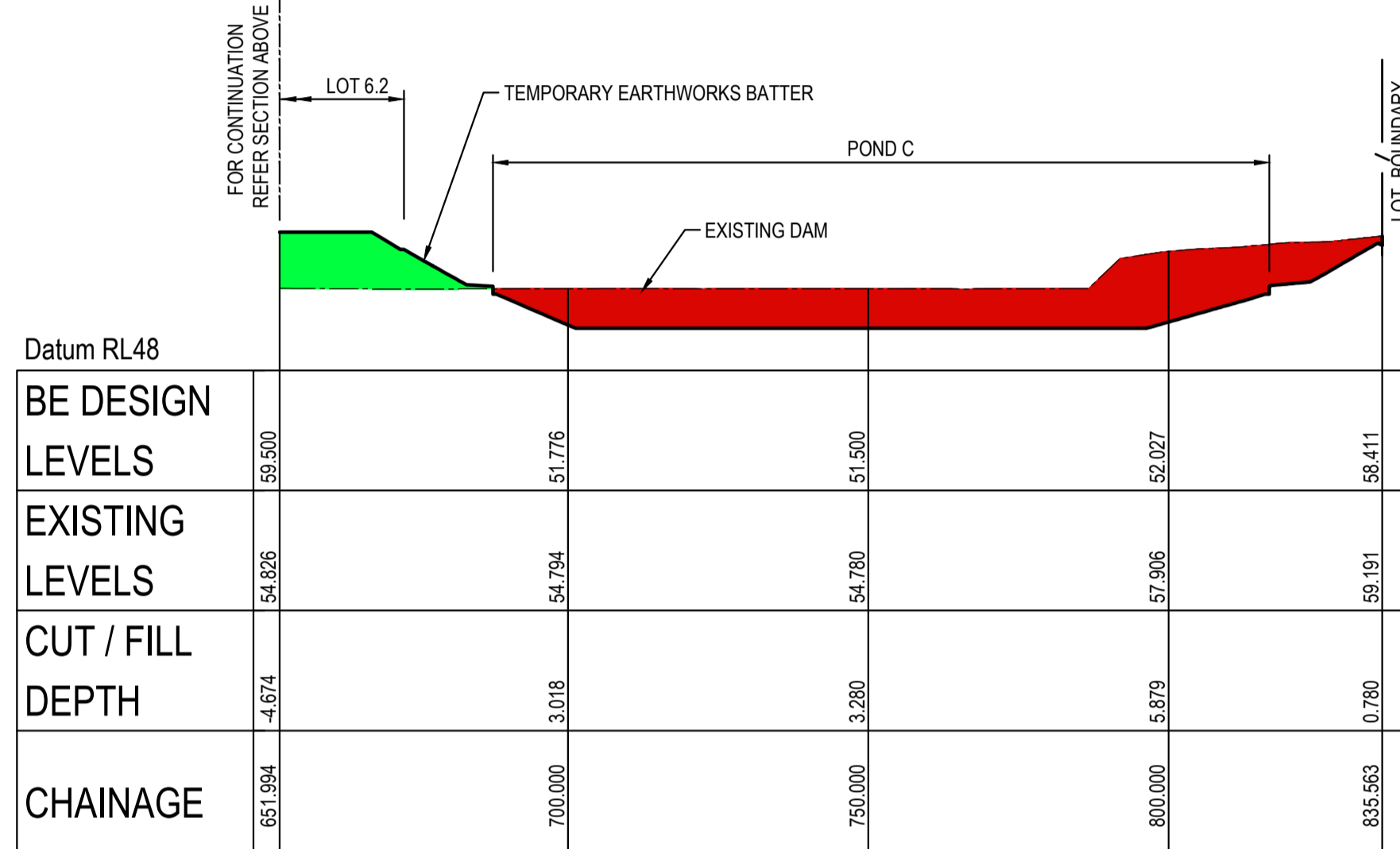
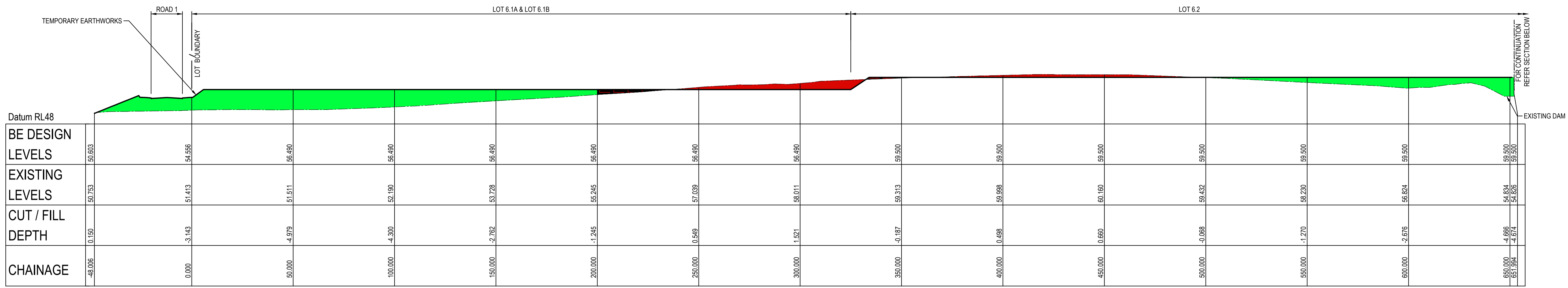


2x VERTICAL EXAGGERATION
SECTION B CONTINUATION
 SCALE: H 1:1000 @ A1
 V 1:500 @ A1



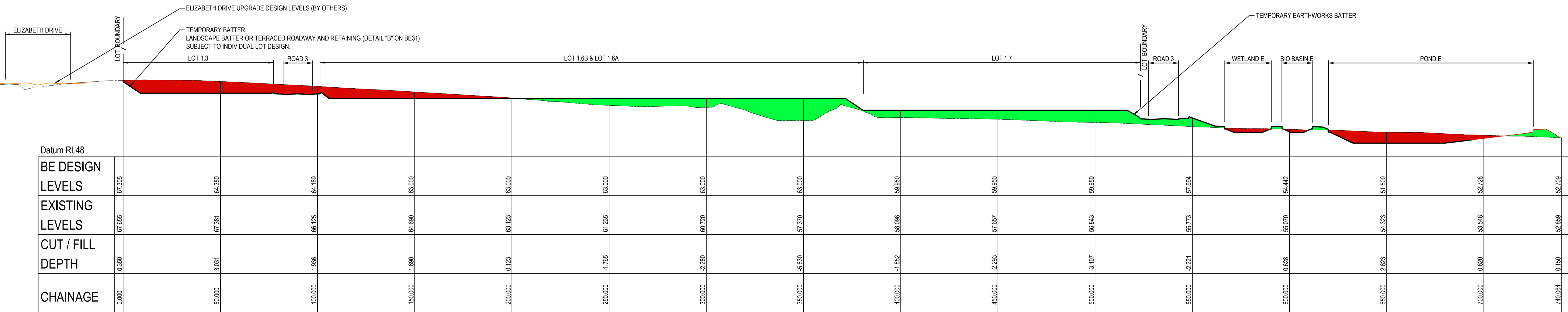
ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659				Client: HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor: NETTLETONTRIBE Suite 2.01, 828 Pacific Highway, Gordon NSW 2072 Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: email@hiconsult.com.au Web: www.henryandhymas.com.au				Project: BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title: BULK EARTHWORKS SITE SECTION - B SHEET 2 OF 5				Drawn: L.Caha Checked: N.Wetzlar Drawing number: 240518_DA_BE21		Designed: N.Wetzlar Approved: A.Francis Original issue date: 45413 Scale @A1 AS SHOWN Revision: 04	
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas. DRAWING TO BE PRINTED IN COLOUR henry&hymas					

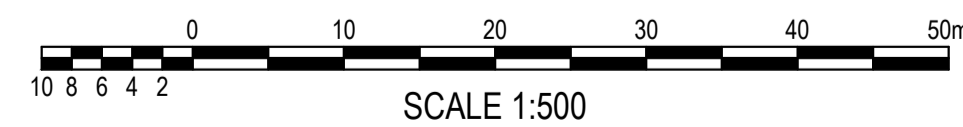
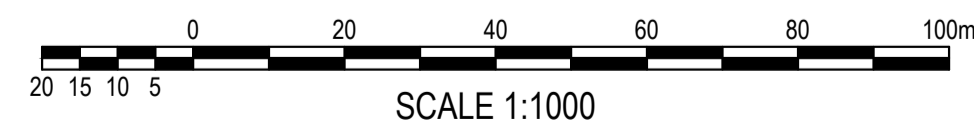


2x VERTICAL EXAGGERATION
SECTION C
 SCALE: H 1:1000 @ A1
 V 1:500 @ A1
 BE01

2x VERTICAL EXAGGERATION
SECTION C CONTINUATION
 SCALE: H 1:1000 @ A1
 V 1:500 @ A1
 BE01



2x VERTICAL EXAGGERATION
SECTION D
 SCALE: H 1:1000 @ A1
 V 1:500 @ A1
 BE01

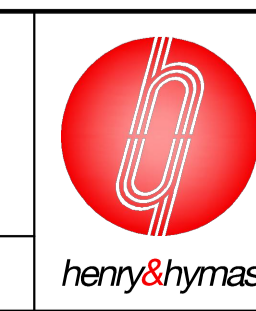


ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM: AHD			
ORIGIN OF LEVELS: PM25501, RL59.659			
REVISION	AMENDMENT	DRAWN	DESIGNED

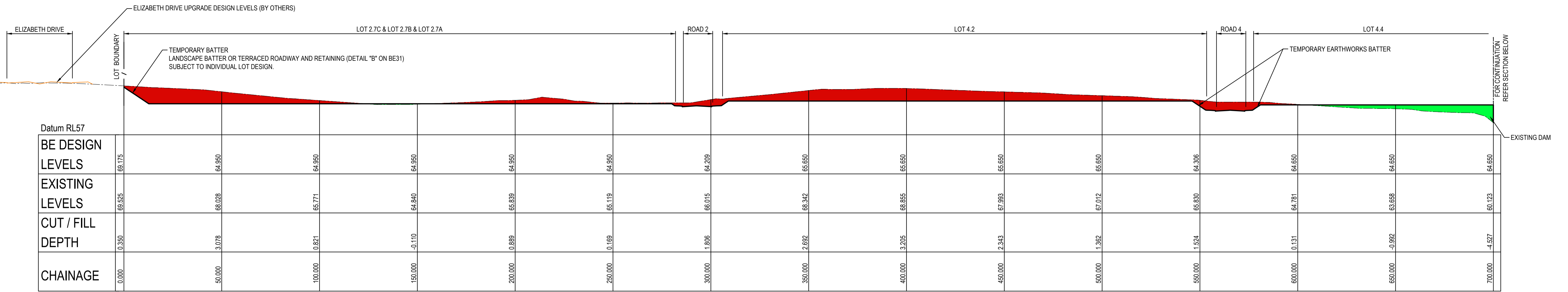
Client			
HB&B Property Pty and ISPT Pty Ltd			
Architect / Surveyor			
NETTLETONTRIBE			
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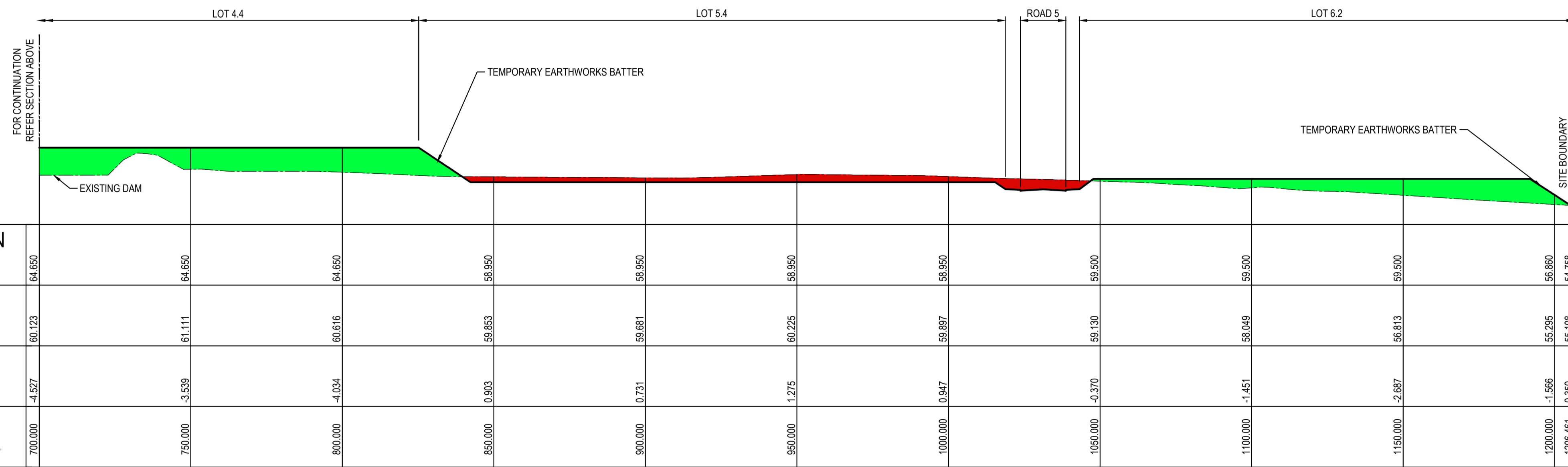
Project	
BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW	
Title BULK EARTHWORKS SITE SECTION - C & D SHEET 3 OF 5	

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @ A1
N.Wetzlar	A.Francis	AS SHOWN
Drawing number	Revision	
240518_DA_BE22	04	



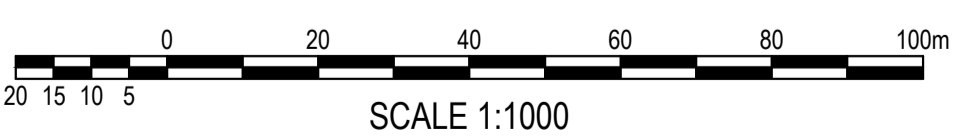
Datum RL57																																			
BE DESIGN LEVELS	66.175		64.950		64.950		64.950		64.950		64.950		64.950		64.950		64.209		66.650		66.650		66.650		66.650		64.306		64.650		64.650		64.650		60.123
EXISTING LEVELS	69.525		66.228		65.771		64.940		65.639		65.119		66.015		66.942		68.865		68.865		67.893		67.012		66.650		65.830		64.781		63.958		60.123		
CUT / FILL DEPTH	0.350		3.078		0.821		-0.110		0.689		0.169		1.806		2.692		3.205		2.343		1.362		1.362		1.524		0.131		-0.992		-4.527				
CHAINAGE	0.000		50.000		100.000		150.000		200.000		250.000		300.000		350.000		400.000		450.000		500.000		550.000		600.000		650.000		700.000						

2x VERTICAL EXAGGERATION
SECTION **F**
SCALE: H 1:1000 @ A1
V 1:500 @ A1
BE01



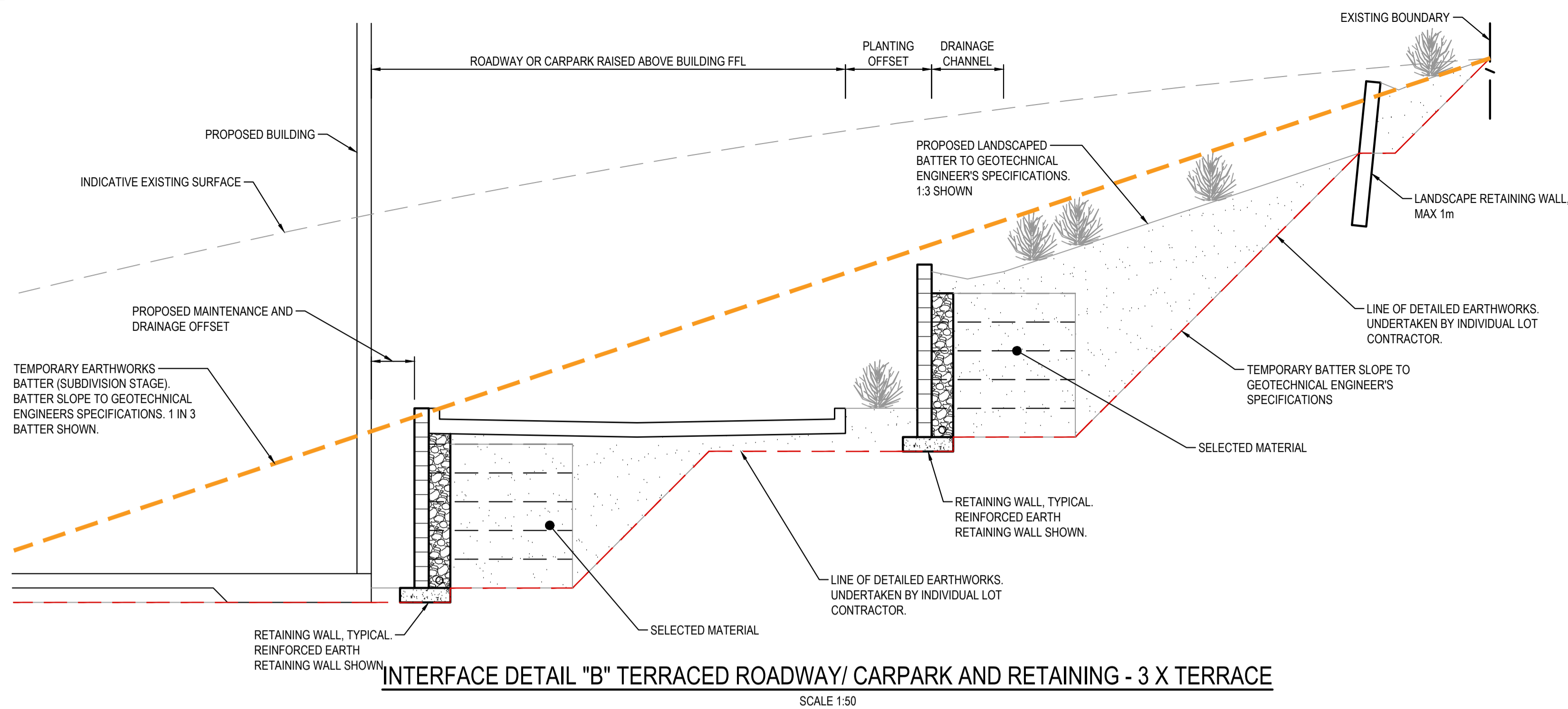
Datum RL52																													
BE DESIGN LEVELS	64.650		64.650		64.650		59.950		59.950		59.950		59.950		59.950		59.950		59.950		59.950		59.950		59.950		56.860		54.758
EXISTING LEVELS	60.123		61.111		60.616		59.853		59.681		60.225		59.897		59.130		58.049		56.813		55.295		55.108		55.108		55.295		55.108
CUT / FILL DEPTH	-4.527		-3.539		-4.034		0.903		0.731		1.275		0.947		-0.370		-1.451		-2.887		-1.566		0.350		0.350		-1.566		-4.527
CHAINAGE	700.000		750.000		800.000		850.000		900.000		950.000		1000.000		1050.000		1100.000		1150.000		1200.000		1206.461		1206.461		1206.461		1206.461

2x VERTICAL EXAGGERATION
SECTION **F** CONTINUATION
SCALE: H 1:1000 @ A1
V 1:500 @ A1
BE01



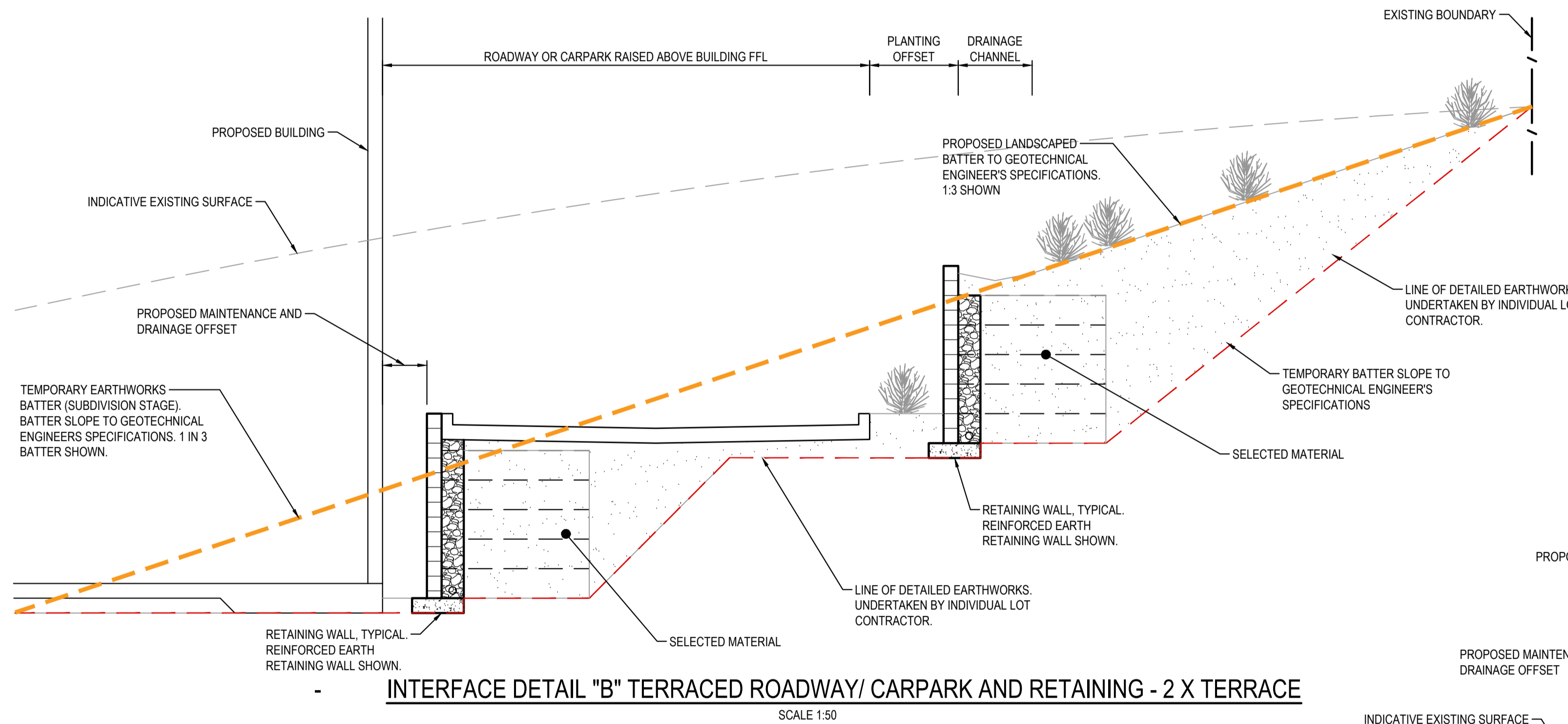
ISSUED FOR SSDA

SURVEY INFORMATION SURVEYED BY: LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659	04 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) JG NW 06.06.2025 03 ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA) MB SY 15.10.2024 03 ISSUED FOR CONCEPT LC NW 16.08.2024 01 ISSUED FOR CONCEPT LC NW 25.07.2024	Client HB&B Property Pty and ISPT Pty Ltd Architect / Surveyor NETTLETONTRIBE	Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hiconsult.com.au Web www.henryandhymas.com.au		Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW Title BULK EARTHWORKS SITE SECTION - F SHEET 5 OF 5	Drawn L.Caha Checked N.Wetzlar Drawing number 240518_DA_BE24	Designed N.Wetzlar Approved A.Francis Revision 04	Original issue date 45413 Scale @A1 AS SHOWN
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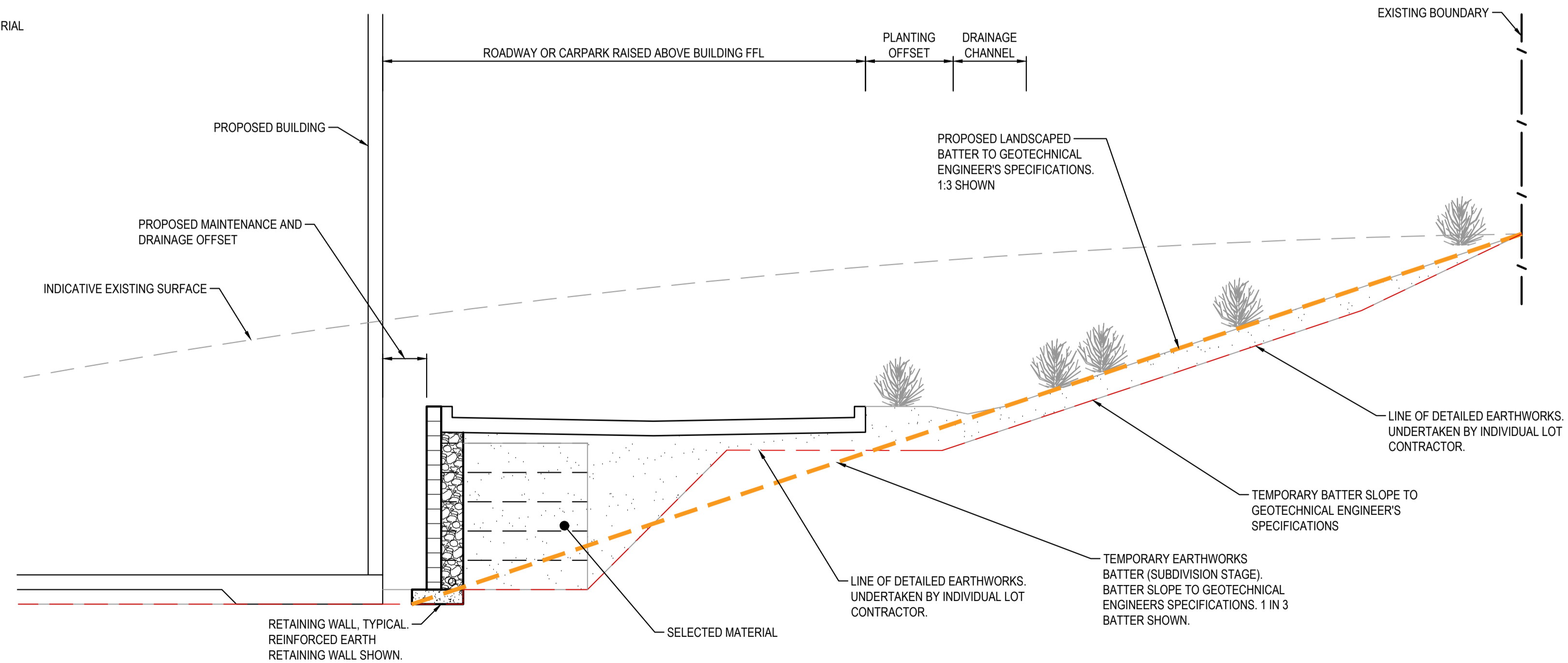
INTERFACE DETAIL "B" TERRACED ROADWAY/ CARPARK AND RETAINING - 3 X TERRACE

SCALE 1:50



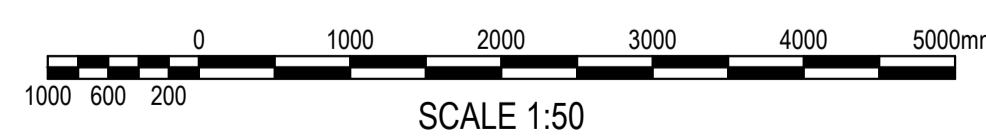
INTERFACE DETAIL "B" TERRACED ROADWAY/ CARPARK AND RETAINING - 2 X TERRACE

SCALE 1:50



INTERFACE DETAIL "B" TERRACED ROADWAY/ CARPARK AND RETAINING - 1 X TERRACE

SCALE 1:50



ISSUED FOR SSDA

SURVEY INFORMATION			
SURVEYED BY: LTSL			
DATUM/AHD	REVISION	AMENDMENT	DATE
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW
02	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MB	SY
01	ISSUED FOR CONCEPT	LC	NW
06.06.2025			
15.10.2024			
25.07.2024			

Client	HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor	NETTLETONTRIBE
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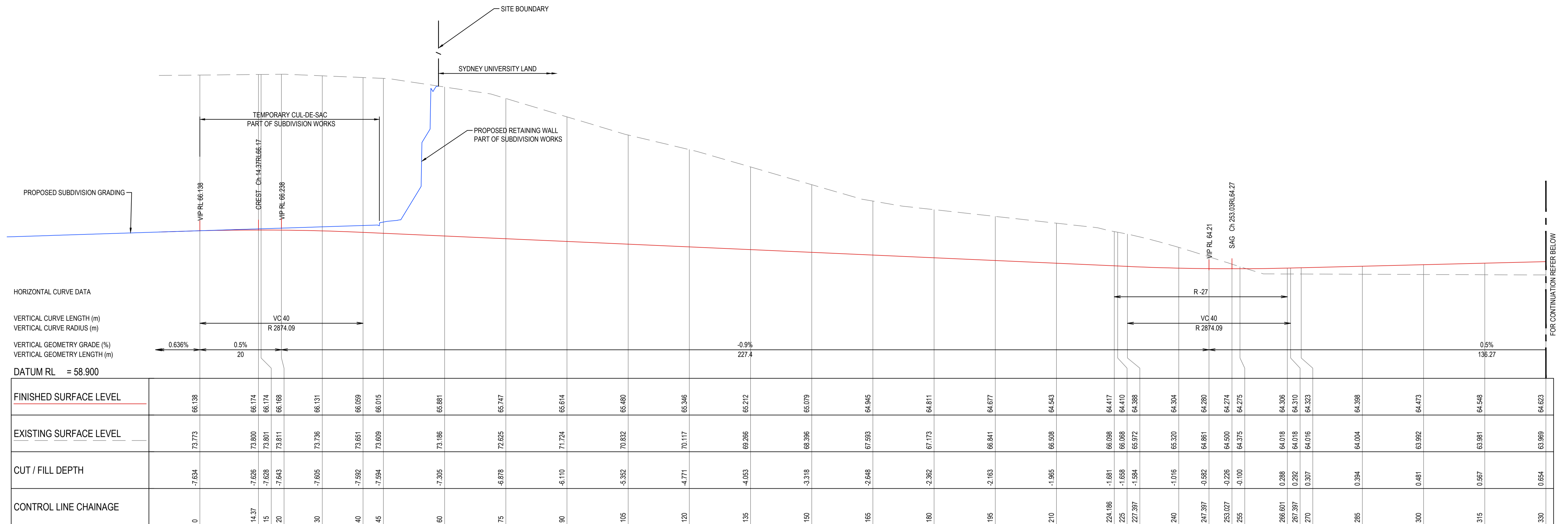
DRAWING TO BE PRINTED IN COLOUR



Project
BURRAH PARK
ELIZABETH DRIVE, BADGERYS CREEK, NSW

Title
TYPICAL EARTHWORKS SECTIONS SHEET 2 OF 2

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:50
Drawing number	Revision	
240518_DA_BE31	03	



FUTURE ROAD No.01 - MC 01 LONGITUDINAL SECTION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 58.900

FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CUT / FILL DEPTH	CONTROL LINE CHAINAGE
66.138	73.773	-7.634	0
66.174	73.800	-7.626	14.37
66.174	73.801	-7.628	15
66.168	73.811	-7.643	20
66.131	73.736	-7.605	30
66.059	73.651	-7.592	40
66.015	73.609	-7.594	45
65.881	73.186	-7.305	60
65.747	72.625	-6.878	75
65.614	71.724	-6.110	90
65.480	70.832	-5.352	105
65.346	70.117	-4.771	120
65.212	69.266	-4.053	135
65.079	68.396	-3.318	150
64.945	67.593	-2.648	165
64.811	67.173	-2.362	180
64.677	66.841	-2.163	195
64.543	66.508	-1.965	210
64.417	66.098	-1.681	224.186
64.410	66.068	-1.658	225
64.388	65.972	-1.584	227.397
64.304	65.320	-1.016	240
64.280	64.861	-0.562	247.397
64.274	64.500	-0.226	253.027
64.275	64.375	-0.100	255
64.306	64.018	0.288	266.601
64.310	64.018	0.292	267.397
64.323	64.016	0.307	270
64.388	64.004	0.384	285
64.473	63.992	0.481	300
64.548	63.981	0.567	315
64.623	63.969	0.654	330

HORIZONTAL CURVE DATA

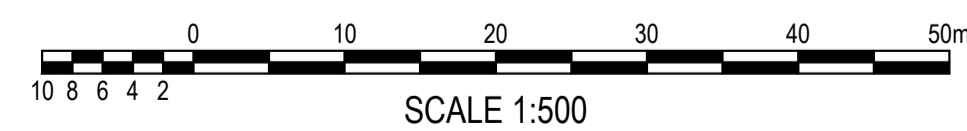
VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 58.900

FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CUT / FILL DEPTH	CONTROL LINE CHAINAGE
64.623	63.969	0.654	330
64.698	64.206	0.492	345
64.773	65.232	-0.459	360
64.816	65.684	-1.038	368.663
64.840	66.309	-1.469	375
64.846	66.716	-1.869	380.663
64.844	66.931	-2.087	383.663
64.828	67.386	-2.558	390
64.779	67.915	-3.136	398.663
64.738	68.260	-3.522	405
64.702	68.818	-4.115	416.163
64.700	69.387	-4.287	419.663
64.700	69.003	-4.303	420
64.735	69.865	-4.930	433.663
64.742	69.729	-4.988	435
64.817	70.146	-5.329	450
64.892	70.223	-5.331	465
64.967	70.299	-5.333	480
64.992	70.390	-5.398	485.079
65.020	70.651	-5.631	490.653
65.038	70.748	-5.710	495
65.050	70.829	-5.979	502.653
65.048	70.969	-5.921	505.653
65.039	70.995	-5.456	510
64.983	70.367	-5.385	520.653
64.954	70.343	-5.390	525
64.941	70.338	-5.397	527.487
64.917	70.332	-5.415	535.653
64.915	70.321	-5.406	538.653
64.915	70.307	-5.392	540
64.945	70.203	-5.258	550.653
64.967	70.160	-5.193	555
65.042	69.849	-4.807	570
65.117	69.268	-4.141	585
65.192	68.727	-3.536	600
65.225	68.496	-3.271	606.552
65.256	68.196	-2.940	615
65.267	67.813	-2.546	623.645
65.261	67.532	-2.271	630
65.258	67.464	-2.206	631.552
65.201	66.889	-1.668	645
65.109	66.356	-1.247	656.552
65.076	66.202	-1.126	660
64.931	65.699	-0.768	675

FUTURE ROAD No.01 - MC 01 LONGITUDINAL SECTION - CONTINUATION

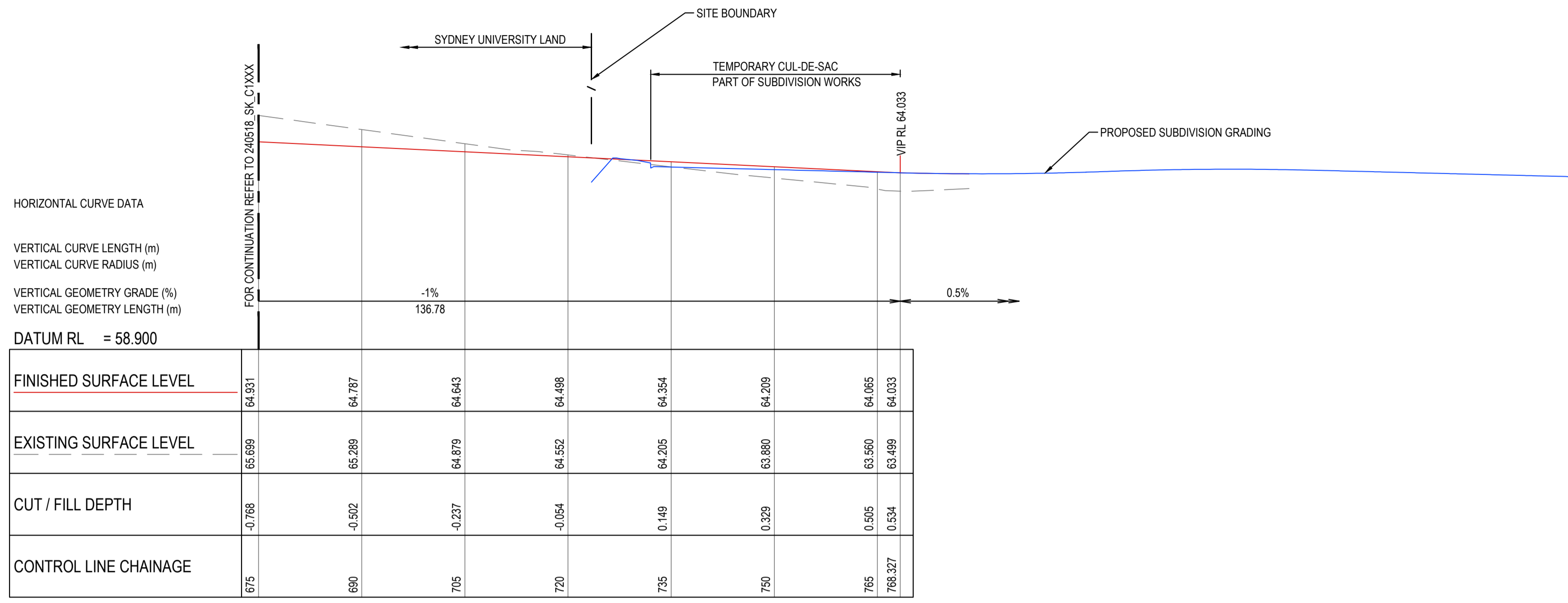
HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



CONCEPT

SURVEY INFORMATION SURVEYED BY LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659		Client HB&B Property Pty and ISPT Pty Ltd		Suite 2.01 828 Pacific Highway Gordon NSW 2072		Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hconconsult.com.au Web www.henryandhymas.com.au		Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW		Drawn L.Caha		Designed N.Wetzlar		Original issue date MAY 2024	
Architect NETTLETONTRIBE		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Title ROAD LONGITUDINAL SECTIONS FUTURE ROAD No. 01 (MC 01)		Checked N.Wetzlar		Approved A.Francis		Scale @A1 1:1000		Drawing number 240518_SK_012	
Revision 01 CONCEPT		Drawn NW		Designed LC		Date 06.06.2025		Revision 01		Drawn NW		Designed LC		Date 06.06.2025	

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Architect NETTLETONTRIBE		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Title ROAD LONGITUDINAL SECTIONS FUTURE ROAD No. 01 (MC 01)		Checked N.Wetzlar		Approved A.Francis		Scale @A1 1:1000			
Revision 01 CONCEPT		Drawn NW		Designed LC		Date 06.06.2025		Revision 01		Drawn NW		Designed LC		Date 06.06.2025	

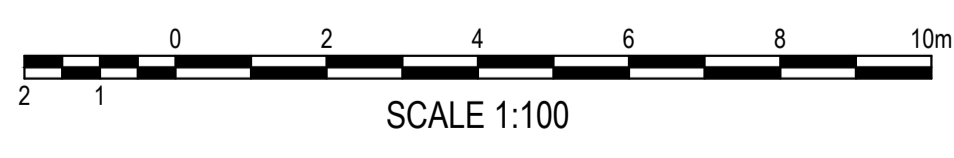
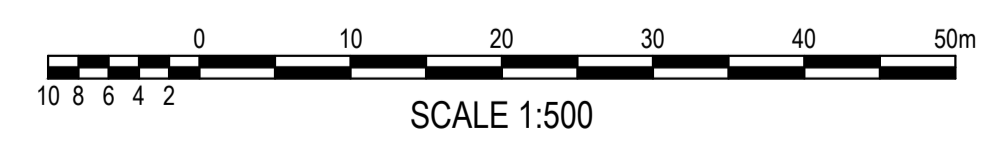


HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL CURVE RADIUS (m)
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GEOMETRY LENGTH (m)
 DATUM RL = 58.900

FINISHED SURFACE LEVEL	64.931	64.787	64.643	64.499	64.354	64.209	64.065	64.033
EXISTING SURFACE LEVEL	65.699	65.269	64.879	64.552	64.205	63.880	63.560	63.499
CUT / FILL DEPTH	-0.768	-0.502	-0.237	-0.054	0.149	0.329	0.505	0.534
CONTROL LINE CHAINAGE	675	690	705	720	735	750	765	768.327

FUTURE ROAD No.01 - MC 01 LONGITUDINAL SECTION - CONTINUATION

HORIZONTAL SCALE 1:500 @ A1
 VERTICAL SCALE 1:100 @ A1



CONCEPT

SURVEY INFORMATION SURVEYED BY LTSL DATUM: AHD ORIGIN OF LEVELS: PM25501, RL59.659											Client HB&B Property Pty and ISPT Pty Ltd	Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhoconsult.com.au Web www.henryandhymas.com.au		Project BURRAH PARK ELIZABETH DRIVE, BADGERYS CREEK, NSW	Drawn L.Caha	Designed N.Wetzlar	Original issue date MAY 2024
											Architect NETTLETONTRIBE			Title ROAD LONGITUDINAL SECTIONS FUTURE ROAD No. 01 (MC 01)	Checked N.Wetzlar	Approved A.Francis	Scale @ A1 1:1000
REVISION 01 CONCEPT														Drawing number 240518_SK_013	Revision 01		

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DRAWING TO BE PRINTED IN COLOUR

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