

CIVIL WORKS AND STORMWATER DRAINAGE

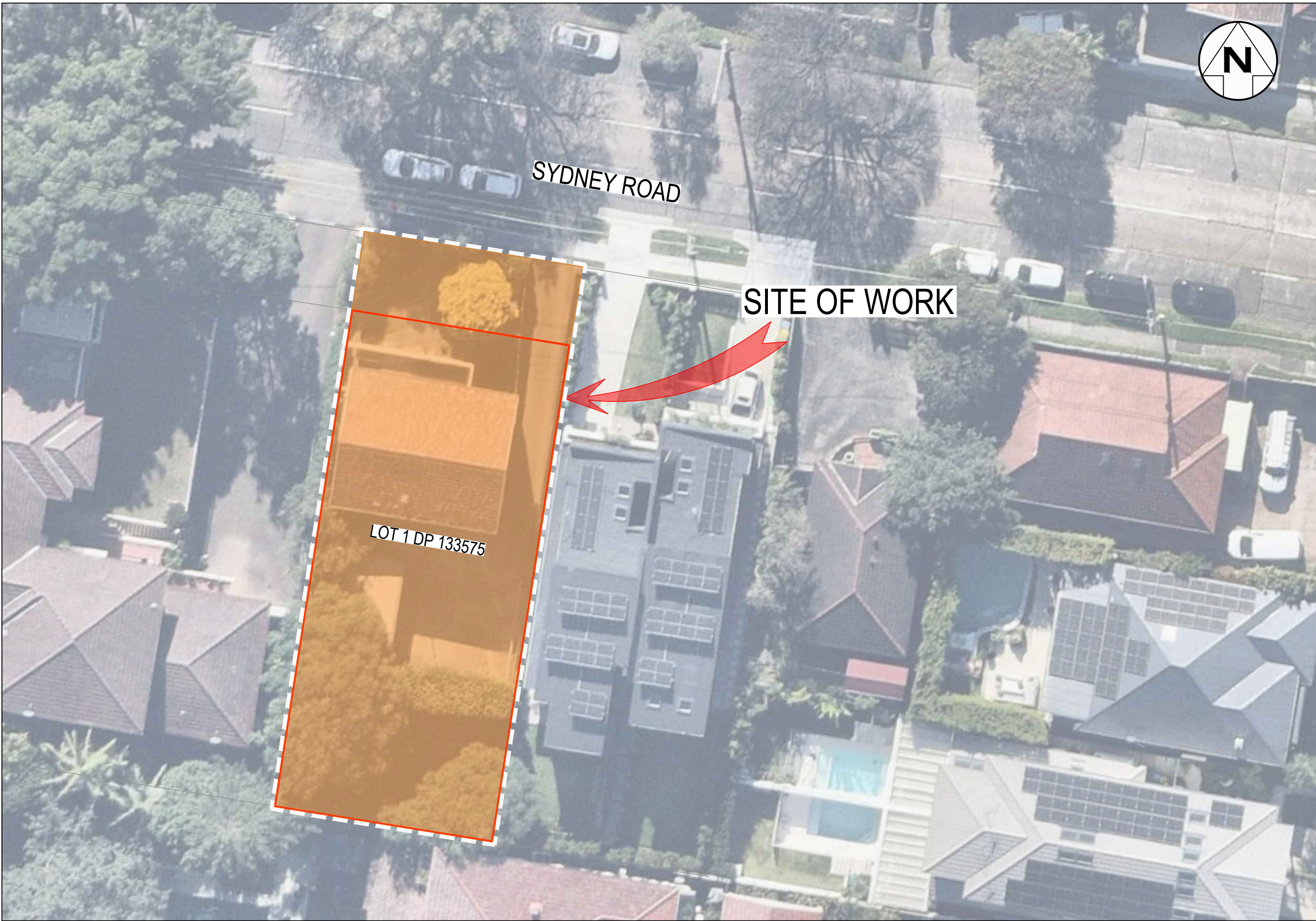
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DRAWING SCHEDULE

SHEET NO	SHEET TITLE	REVISION
C001	COVER SHEET & SITE LOCALITY	A
C003	GENERAL NOTES, ABBREVIATIONS AND ACRONYMS	A
C010	EXISTING SITE & SURVEY CONTROL PLAN	A
C030	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	A
C031	EROSION AND SEDIMENT CONTROL PLAN	A
C200	PLAN OF CIVIL WORKS	A
C220	DRIVEWAY LONGITUDINAL SECTIONS & CROSS SECTION	A
C221	VERTICAL CLEARANCE CHECKING - DRIVEWAY	A
C600	STORMWATER DRAINAGE LAYOUT PLAN	A
C610	DETAILS OF OSD	A
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C765	STORMWATER PRE_DEVELOPMENT CATCHMENT PLAN	A
C775	STORMWATER POST DEVELOPMENT CATCHMENT PLAN	A
C999	SAFETY IN DESIGN REPORT	A

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LOCALITY PLAN
NTS

DEVELOPER

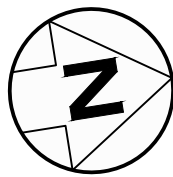
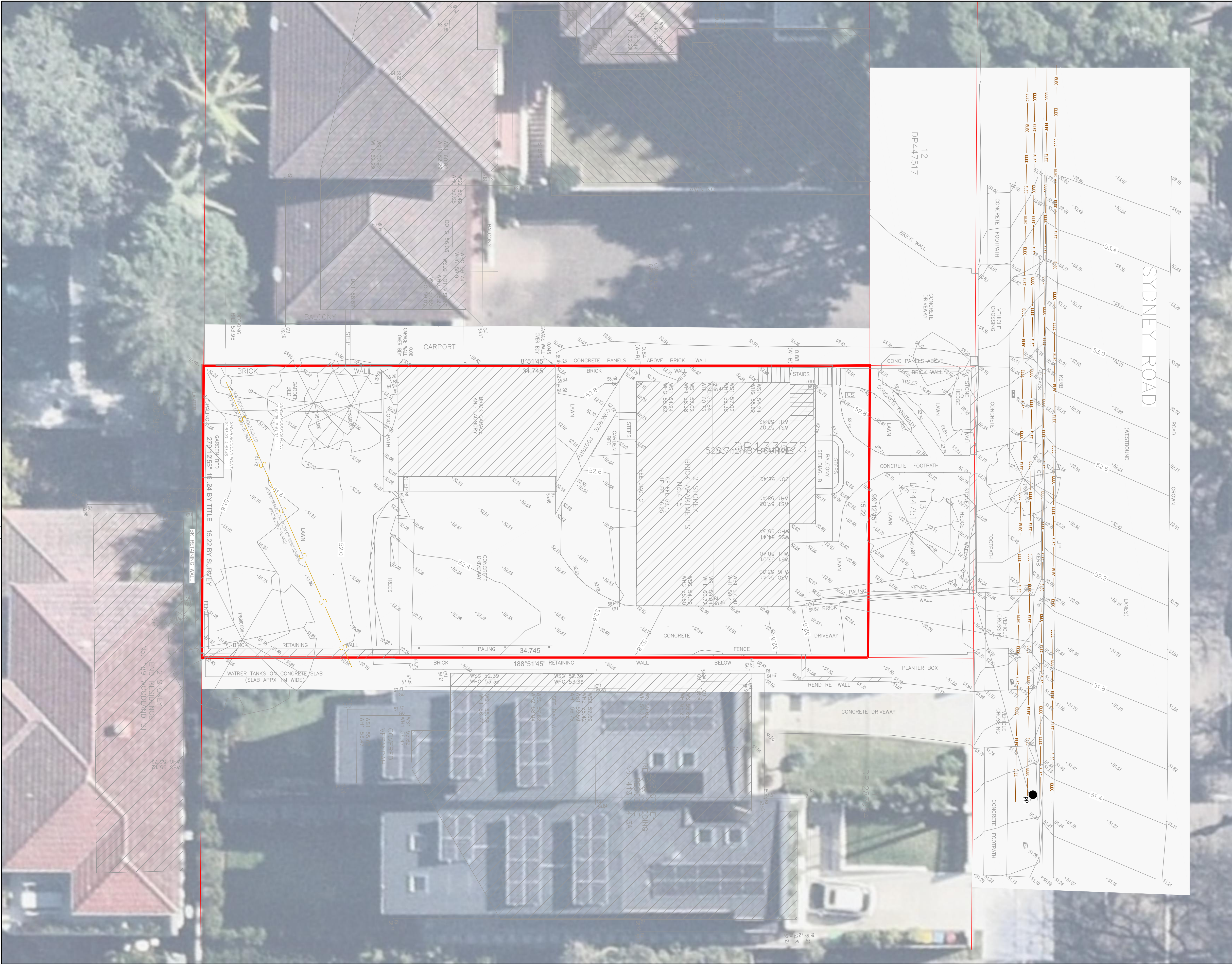
ARCHITECTS

LOCAL GOVERNMENT AREA

CONSULTANT



GENERAL NOTES			SURVEY NOTES			STORMWATER DRAINAGE			SOIL AND WATER MANAGEMENT			WORK HOURS			TEMPORARY TRAFFIC MANAGEMENT		
REF.	DESCRIPTION	DETAILS	REF.	DESCRIPTION	DETAILS	REF.	DESCRIPTION	DETAILS	REF.	DESCRIPTION	DETAILS	REF.	DESCRIPTION	DETAILS	REF.	DESCRIPTION	DETAILS
G1	READ DA CONSENT BEFORE COMMENCING WORKS ON SITE.	ENSURE COUNCIL REQUIREMENTS TO BE MET PRIOR COMMENCEMENT.	SU1	CONTRACTOR RESPONSIBLE FOR ALL SURVEY WORK, INCLUDING SETTING OUT, MONITORING, AND AS-BUILT SURVEYS.	ENSURE COMPREHENSIVE COVERAGE OF SURVEYING NEEDS, PER AS 4971-2008.	SW1	REFER TO COMPLIANCE DEMONSTRATION ON SHEET C775 FOR STORMWATER DRAINAGE DESIGN OBJECTIVES.	ENSURES SYSTEM HANDLES FREQUENT AND RARE STORM EVENTS, PER COUNCIL'S STANDARD.	SE1	CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES BEFORE DISTURBING WORK AREA, PER COUNCIL SATISFACTION AND 'SOILS AND CONSTRUCTION VOL. 14" ED. MARCH 2004, MANAGING URBAN STORMWATER".	ENSURES PRE-CONSTRUCTION PROTECTION, PER MANAGING URBAN STORMWATER.	W1	STANDARD CONSTRUCTION WORK HOURS UNLESS SPECIFIED OTHERWISE IN DA CONSENT.	MONDAY TO FRIDAY: 7:00 AM TO 6:00 PM. SATURDAY: 8:00 AM TO 1:00 PM. VARIATIONS SUBJECT TO COUNCIL REVIEW BASED ON COMMUNITY IMPACT.	TM1	TRAFFIC & PEDESTRIAN CONTROL MEASURES TO BE IMPLEMENTED DURING ALL CONSTRUCTION WORKS. TRAFFIC CONTROL PLANS TO BE PREPARED PER AS1742.3-2019 AND TRANSPORT FOR NSW 'TRAFFIC CONTROL AT WORK SITE TECHNICAL MANUAL 2022'. PLANS TO BE APPROVED, SIGNED, AND DATED BY AN ACCREDITED PERSON AND SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO COMMENCEMENT.	ENSURES SAFETY AND COMPLIANCE WITH NATIONAL STANDARD AS1742.3-2019 AND NSW-SPECIFIC GUIDELINES TFSW MANUAL.
G2	NOTIFICATION TO COUNCIL'S ENGINEERING APPROVAL TEAM OR CERTIFIER BEFORE STARTING WORKS.	WRITTEN NOTICE REQUIRED AT LEAST 5 BUSINESS DAYS IN ADVANCE. OTHERWISE REQUIRED BY DA.	SU2	ALL SURVEY WORK MUST BE BY OR UNDER SUPERVISION OF A REGISTERED SURVEYOR.	COMPLIANCE WITH LEGAL AND PROFESSIONAL REQUIREMENTS FOR ACCURACY.	SW2	NOTIFY COUNCIL 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORKS, UNLESS NOTED OTHERWISE IN DA CONSENT.	ENSURES COUNCIL AWARENESS FOR INSPECTIONS.	SE2	EROSION AND SEDIMENT CONTROL MEASURES AS PER DRAWING SET, MAINTAINED THROUGHOUT CONSTRUCTION AND BEYOND IF NECESSARY, REMOVED WHEN NO LONGER NEEDED.	ENSURES ONGOING MANAGEMENT, PER SITE PLANS, WITH REMOVAL POST-CONSTRUCTION, PER COUNCIL OR SUPERINTENDENT DIRECTION.	W2	NO CONSTRUCTION WORK ON SUNDAYS AND PUBLIC HOLIDAYS WITHOUT WRITTEN COUNCIL APPROVAL.	PROHIBITED UNLESS PRIOR WRITTEN CONSENT IS OBTAINED, ENSURING COMMUNITY PEACE.			
G3	READ THIS DRAWING SET WITH OTHER CONSULTANT DRAWINGS AND SPECIFICATIONS.	ENSURE ALIGNMENT WITH ALL DOCUMENTATION. REFER DISCREPANCIES TO SUPERINTENDENT BEFORE PROCEEDING.	SU3	VERIFY ALL SETTING OUT POINTS AND LINES ON SITE BEFORE CONSTRUCTION BEGINS.	PREVENT ERRORS BY CONFIRMING POSITIONS ON SITE.	SW3	ALL PITS AND PIPES TO BE CONSTRUCTED PER COUNCIL'S STANDARD AND SPECIFICATION INCLUDING BEDDING, COMPACTION AND BACKFILL.	ENSURES COMPLIANCE WITH LOCAL AUTHORITY REQUIREMENTS, ALIGNING WITH COUNCIL STANDARDS.	SE3	CONTROL MEASURES TO BE INSPECTED WEEKLY AND AFTER EACH STORM EVENT, REMOVE ACCUMULATED SILT BEFORE 60% CAPACITY LOSS, DISPOSE AS DIRECTED.	ENSURES FUNCTIONALITY, PER MAINTENANCE PROTOCOLS, CRITICAL FOR PREVENTING SEDIMENT DISCHARGE.	W3	CONTRACTOR MUST COMPLY WITH ALL RELEVANT NOISE CONTROL REGULATIONS.	ENSURE NOISE LEVELS DO NOT EXCEED LIMITS SPECIFIED BY LOCAL COUNCIL OR STATE REGULATIONS.			
G4	EXECUTE WORKS AS PER APPROVED DRAWINGS, CODES, STANDARDS, OR SUPERINTENDENT'S DIRECTION.	FOLLOW RELEVANT CODES AND LOCAL GOVERNMENT REGULATION AND STANDARDS, U.N.O.	SU4	PRESERVE AND PROTECT ALL EXISTING SURVEY MARKS THROUGHOUT CONSTRUCTION.	MAINTAIN REFERENCE POINTS FOR ONGOING SURVEYS, REPORT ANY DAMAGE IMMEDIATELY.	SW4	RESERVED.	RESERVED.	SE4	ALL STOCKPILES TO HAVE SEDIMENT FENCES PLACED DOWNSTREAM TO PREVENT MATERIAL LOSS.	ENSURES CONTAINMENT, PER EROSION CONTROL STANDARDS, MINIMISING ENVIRONMENTAL IMPACT.	W4	ANY REQUEST TO VARY WORK HOURS MUST BE SUBMITTED IN WRITING TO THE COUNCIL.	SUBMITTED IN WRITING TO THE COUNCIL, INCLUDE JUSTIFICATION AND PROPOSED HOURS, SUBJECT TO COUNCIL ASSESSMENT AND APPROVAL.			
G5	DIMENSIONS IN METRES, U.N.O.	ENSURE CLARITY IN MEASUREMENT UNITS.	SU5	IF SURVEY MARKS ARE DISTURBED OR DAMAGED, REPORT TO SUPERINTENDENT AND REINSTATE AT CONTRACTOR'S COST.	ENSURE CONTINUITY OF SURVEY REFERENCE, WITH CONTRACTOR LIABILITY FOR DAMAGES.	SW5	ALL SUBSOIL DRAINAGE IN LANDSCAPED/PLANTING AREAS TO BE 100mm SUBSOIL PIPE, CONNECTION TO STORMWATER PITS UNDER ROADWAYS TO BE 150MM PVC CLASS SN8 WITH MINIMUM 600mm COVER.	ENSURING FUNCTIONALITY AND PROTECTION.	SE5	STOCKPILES OF CONSTRUCTION MATERIALS AND SITE DEBRIS TO BE LOCATED CLEAR OF DRAINAGE LINES, WITHIN EROSION CONTAINMENT BOUNDARY OR EQUIVALENTLY PROTECTED, NOT ENCRoACHING PUBLIC AREAS.	ENSURES PROPER PLACEMENT, PER SITE MANAGEMENT, PREVENTING SEDIMENT RUNOFF TO PUBLIC SPACES.	W5	CONTRACTOR RESPONSIBLE FOR INFORMING THE COUNCIL OR SUPERINTENDENT OF PLANNED WORK HOURS.	ENSURE TRANSPARENCY AND COORDINATION, ESPECIALLY FOR NON-STANDARD HOURS.			
G6	VERIFY DIMENSIONS ON SITE, DO NOT SCALE DRAWINGS.	CONTRACTOR RESPONSIBILITY FOR ACCURACY BEFORE COMMENCING WORKS.	SU6	SURVEY AREAS OF OVER STRIPPING BEFORE AND AFTER REMOVAL TO RECORD LEVELS AND EXTENT.	ENSURE ACCURATE MEASUREMENT OF MATERIAL REMOVED, PER DESIGN REQUIREMENTS.	SW6	RESERVED.	RESERVED.	SE6	PIPE TO BE LAID AT UNIFORM GRADE BETWEEN INVERT LEVELS SHOWN, WITH MINIMUM COVER MAINTAINED UNLESS OTHERWISE STATED ON DRAWINGS.	ENSURES CONSISTENT FLOW AND PROTECTION, PER DESIGN AND COUNCIL REQUIREMENTS, CRITICAL FOR FUNCTIONALITY.	W6	CONSTRUCTION PROGRAM MUST INCLUDE PROPOSED WORK HOURS AND BE APPROVED BY SUPERINTENDENT.	IMPLEMENT MEASURES TO REDUCE IMPACT, PARTICULARLY DURING SENSITIVE HOURS OR AREAS			
G7	LEVELS IN AUSTRALIAN HEIGHT DATUM, COORDINATES AS PER SURVEY PLAN.	STANDARD REFERENCE SYSTEMS FOR HEIGHTS AND COORDINATES.	SU7	BEFORE PLACING FILL, COVER OVER STRIPPED AREAS, SURVEY AND ADVISE SUPERINTENDENT.	CONFIRM READINESS FOR FILL PLACEMENT, ENSURING COMPLIANCE WITH DESIGN LEVELS.	SW7	STORMWATER OUTLETS TO KERBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S STANDARD/TNSW.	ENSURES COMPLIANCE FOR KERB CONNECTIONS, PER AUTHORITY SPECIFICATIONS, FOR DRAINAGE.	SE7	ALL DISTURBED AREAS ON PUBLIC VERGE TO BE REINSTATED PER COUNCIL REQUIREMENTS.	ENSURES REHABILITATION, PER COUNCIL SPECS, FOR LONG-TERM EROSION CONTROL, CRITICAL POST-CONSTRUCTION.	W7	CONTRACTOR MUST MINIMIZE NOISE, VIBRATION, AND DISTURBANCE TO SURROUNDING COMMUNITY.	CONTRACTOR LIABLE FOR BREACHES OF WORK HOUR REGULATIONS, INCLUDING NOISE COMPLAINTS.			
G8	CONTRACTOR TO COVER COSTS FOR COORDINATION WITH SERVICE PROVIDERS.	RESPONSIBLE FOR DAMAGES TO EXISTING SERVICES.	SU8	SURVEY ALL FILL AREAS BEFORE PLACING BACKFILL TO ENSURE REQUIRED SUBGRADE LEVELS.	VERIFY SUBGRADE PREPARATION, CRITICAL FOR STRUCTURAL STABILITY.	SW8	RESERVED.	RESERVED.	SE8	PUBLIC ROADS TO BE KEPT CLEAR OF DEBRIS AT ALL TIMES, CONTROL VEHICLE ACCESS TO PREVENT SEDIMENT TRACKING, ESPECIALLY DURING WET WEATHER.	ENSURES CLEANLINESS, PER SITE MANAGEMENT, MINIMIZING PUBLIC IMPACT, CRITICAL FOR SAFETY.	W8	CONTRACTOR MUST LODGE A 'BEFORE YOU DIG AUSTRALIA' (BYDA) ENQUIRY AND KEEP THE MOST RECENT BYDA UTILITY LOCATION PLANS ON SITE AT ALL TIMES.	ENSURES AWARENESS OF UNDERGROUND UTILITIES, PER BYDA, CRITICAL FOR SAFETY AND COMPLIANCE.			
G9	WORKS ON EXISTING SERVICES BY AUTHORIZED CONTRACTORS ONLY.	INCLUDES RELOCATION, MODIFICATION, AND ADJUSTMENT.	SU9	PROVIDE AS-BUILT SURVEY PLANS UPON COMPLETION, CERTIFIED BY REGISTERED SURVEYOR	DOCUMENT ACTUAL POSITIONS AND LEVELS, ESSENTIAL FOR FUTURE MAINTENANCE AND COMPLIANCE.	SW9	RESERVED.	RESERVED.	SE9	INSTALL STABILIZED VEHICLE ACCESS, WHEEL WASH, OR OTHER MEASURES TO PREVENT SEDIMENT DEPOSITION ON ROADS, CLEAN AND RESTORE ROADS PROMPTLY IF AFFECTED.	ENSURES ROAD PROTECTION, PER ENVIRONMENTAL PROTOCOLS, WITH IMMEDIATE ACTION FOR CLEANUP.	U1	NO WORK CAN BE DONE ON ANY UTILITIES WITHOUT FIRST OBTAINING APPROVAL FROM THE RELEVANT UTILITY AUTHORITIES.	ENSURES LEGAL AND SAFETY COMPLIANCE, PREVENTING UNAUTHORIZED INTERFERENCE WITH SERVICES.			
G10	TEMPORARILY REMOVED ITEMS INCLUDING FENCES, SIGNS, POSTS TO BE REINSTATED, ANY DAMAGES TO THOSE DURING CONSTRUCTION SHALL BE REPORTED TO THE SUPERINTENDENT AND BE REINSTATED IMMEDIATELY AT CONTRACTOR'S EXPENSES.	SITE VISIT AT TENDER STAGE TO UNDERSTAND AND REMOVAL/REINSTATEMENT NEEDS.	EARTHWORKS			REF. DESCRIPTION	DETAILS	SW10	CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS, INCLUDING PIPE ADAPTORS, TO ENSURE PROPER CONNECTIONS BETWEEN DISSIMILAR PIPEWORKS.	ENSURES COMPATIBILITY, PER MANUFACTURER AND COUNCIL SPECS, FOR SYSTEM INTEGRITY.	SE10	CONTRACTOR MAY REGULARLY WET THE SITE TO REDUCE DUST GENERATED FROM SITE ACTIVITIES.	ENSURES DUST MANAGEMENT, PER ENVIRONMENTAL PRACTICES, COMPLEMENTING EQUIPMENT USE.	U2	BEFORE STARTING ANY WORK, THE CONTRACTOR MUST LOCATE, ASSESS, AND FLAG ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO CRITICAL ASSETS, OVERHEAD ASSETS, AND PRIVATE SERVICES.	ENSURES IDENTIFICATION AND PROTECTION, PER BYDA AND SITE SAFETY PROTOCOLS, MINIMIZING DAMAGE RISK.	
G11	TREE PROTECTION FENCING TO BE INSTALLED BEFORE WORKS, MAINTAINED THROUGHOUT.	CONTRACTOR RESPONSIBLE FOR ALL PROTECTION MEASURES.	E1	EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S SPECIFICATION.	ENSURES COMPLIANCE WITH LOCAL AUTHORITY REQUIREMENTS, ALIGNING WITH COUNCIL STANDARDS.	SW11	ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE PROFESSIONALLY, WITH INTERNAL WALL AT ENTRY POINT CEMENT RENDERED FOR SMOOTH FINISH.	ENSURES QUALITY CONNECTIONS, PER TRADESMAN STANDARDS, FOR FLOW AND DURABILITY.	SE11	CONTRACTOR MUST COMPLETE A SAFE WORK METHOD STATEMENT (SWMS) FOR ALL WORK AROUND UTILITIES AND ENSURE APPROPRIATE SAFETY CONTROLS ARE IN PLACE TO PROTECT BOTH PERSONNEL AND ASSETS.	ENSURES SAFETY PLANNING, PER WORK HEALTH AND SAFETY (WHS) ACT, CRITICAL FOR WORKER AND ASSET PROTECTION.	U3	THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE UTILITY AUTHORITY OF ANY DAMAGE TO THEIR ASSETS.	ENSURES PROMPT REPORTING, PER UTILITY AUTHORITY REQUIREMENTS, MINIMIZING SERVICE DISRUPTIONS.			
G12	CONTRACTOR TO REMOVE CONSTRUCTION WASTE PER NSW ENVIRONMENT PROTECTION AUTHORITY.	ENSURE PROPER DISPOSAL TO FINAL DESTINATION.	E2	EXCAVATION TO BE CARRIED OUT TO DEPTHS REQUIRED BY STRUCTURAL DESIGN FOR SOUND FOUNDATIONS. ALL EXCAVATIONS MUST BE APPROVED BY SUPERINTENDENT BEFORE PLACING MATERIALS OR STRUCTURES.	ENSURES STABILITY, PER DESIGN AND GEOTECHNICAL REQUIREMENTS, WITH SUPERINTENDENT OVERSIGHT.	SW12	PRECAST PITS MAY BE USED WITH APPROVAL FROM COUNCIL AND SUPERINTENDENT.	ALLOWS FLEXIBILITY, WITH OVERSIGHT FOR QUALITY, PER COUNCIL AND PROJECT REQUIREMENTS.	SE12	ANY INCIDENTS LIKELY TO CAUSE POLLUTION TO BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT.	ENSURES PROMPT RESPONSE, PER ENVIRONMENTAL REGULATIONS, MINIMIZING IMPACT.	U4	ALL ELECTRICAL APPARATUS MUST BE CONSIDERED LIVE UNTIL PROVEN OTHERWISE. CONTACT WITH LIVE ELECTRICAL APPARATUS CAN CAUSE SEVERE INJURY OR DEATH.	ENSURES STRICT ADHERENCE TO DE-ENERGIZATION PROTOCOLS.			
G13	ERECT HOARDING AND SIGNS BEFORE WORK, MAINTAIN DURING CONSTRUCTION.	INCLUDE NO UNAUTHORIZED ENTRY, CONTACT DETAILS, AND PRINCIPAL CERTIFYING AUTHORITY INFO.	E3	TOPSOIL TO BE STRIPPED FROM WORK AREA, INCLUDING BATTERS, AT LEAST 150mm THICK, DISPOSED OR STOCKPILED AS DIRECTED BY SUPERINTENDENT.	ENSURES REMOVAL OF TOPSOIL LAYER, PER SITE PREPARATION COUNCIL'S SPECIFICATION.	SW13	BULKHEADS TO BE CONSTRUCTED ON ALL STORMWATER LINES WITH STEEP GRADE, PER COUNCIL'S SPECIFICATION.	ENSURES STABILITY AND DURABILITY FOR STEEP PIPES, ENHANCING SAFETY.	SE13	CONTRACTOR RESPONSIBLE FOR ALL NECESSARY MEASURES AS PER SE1, WITH ADDITIONAL COSTS REFLECTED IN TENDER PRICE, EVEN IF NOT INDICATED ON SEDIMENT AND EROSION CONTROL PLAN.	ENSURES ACCOUNTABILITY, PER CONTRACT, WITH COST INCLUSION FOR UNFORESEEN MEASURES.	U5	ONLY SUITABLY QUALIFIED AND AUTHORIZED PERSONS OR CONTRACTORS ARE PERMITTED TO WORK ON EXISTING OR PROPOSED UTILITY SERVICES.	ENSURES SKILLED PERSONNEL, PER UTILITY AUTHORITY REGULATIONS, PREVENTING UNQUALIFIED WORK AND DAMAGE.			
G14	REVIEW TENDER DOCUMENTATION, INCLUDING DA CONDITIONS, HERITAGE, ARCHAEOLOGICAL, ECOLOGICAL, CONTAMINATION REPORT AND GEOTECHNICAL REPORTS (IF ANY APPLICABLE).	ENSURE WORKS COMPLY WITH ALL RELEVANT REPORTS, CONDITIONS, AND STANDARDS.	E4	EXPOSED DELETERIOUS MATERIALS, IF UNSUITABLE ACCORDING TO COUNCIL SPECIFICATION, TO BE REMOVED, DISPOSED, OR TREATED AS RECOMMENDED BY GEOTECHNICAL ENGINEERS. ADDITIONAL EXCAVATION AND REPLACEMENT WITH COMPACTED APPROVED MATERIALS MAY BE ORDERED IF UNSOUND MATERIALS ENCOUNTERED.	MANAGES UNSUITABLE MATERIALS, PER GEOTECHNICAL ADVICE, ENSURING FILL SUITABILITY AND STABILITY.	SW14	BEDDING AND COVER FOR REINFORCED CONCRETE PIPE (RCP) TO CONFORM WITH COUNCIL'S STANDARD. CONCRETE PIPE ASSOCIATION GUIDE, OR AS 3725, FOR PVC PIPES, REQUIREMENTS AS AS 2032.	ENSURES COMPLIANCE, PER INDUSTRY AND STANDARD GUIDELINES, FOR BOTH PIPE TYPES.	SE14	ALL CONCRETE SHALL NOT BE PLACED UNTIL FALSEWORK, FORMWORK, AND REINFORCEMENT FIXING ARE INSPECTED AND APPROVED BY THE SUPERINTENDENT.	ENSURES QUALITY CONTROL, CRITICAL FOR STRUCTURAL INTEGRITY BEFORE POURING.	U6	UNCHARTED UTILITY SERVICES MAY BE PRESENT ON THE SITE. THE CONTRACTOR MUST TAKE ALL NECESSARY STEPS TO IDENTIFY THESE UTILITIES AND ARRANGE FOR THEIR RELOCATION OR PROTECTION AS REQUIRED FOR THE SPECIFIC WORKS, IN AGREEMENT WITH THE SUPERINTENDENT AND THE RELEVANT UTILITY AUTHORITY.	MANAGES UNKNOWN UTILITIES, PER SITE SAFETY PROTOCOLS, ENSURING COORDINATION FOR RELOCATION OR PROTECTION.			
G15	RESTORE DAMAGED COUNCIL INFRASTRUCTURE AT CONTRACTOR'S COST BEFORE COMPLETION.	FOOTWAYS, ROADS, AND ANY OTHER INFRASTRUCTURES AS PER COUNCIL'S SPECIFICATIONS.	E5	STRIPPED FILL AREAS TO BE PROOF ROLLED AND APPROVED BY GEOTECHNICAL ENGINEERS BEFORE PLACEMENT OF FILL.	ENSURES SUBGRADE STABILITY, FOR STRUCTURAL INTEGRITY.	SW15	RCP TO BE CLASS 2 U.N.O. PVC PIPES TO BE CLASS SH, PURCHASED FROM COUNCIL-APPROVED QUALITY-ASSURED MANUFACTURER, U.N.O.	ENSURING QUALITY, PER COUNCIL AND MANUFACTURER STANDARDS.	SE15	ALL PITS SHALL BE BENCHED AND FLOW STREAMLINED.	ENSURES EFFICIENT FLOW.	U7	CONTRACTORS MUST BE AWARE OF AND COMPLY WITH ALL REGULATIONS AND STANDARDS FROM UTILITY AUTHORITIES CONCERNING THE USE OF MACHINERY AND EQUIPMENT NEAR UTILITY SERVICES.	ENSURES SAFE DISCONNECTION, PER UTILITY AUTHORITY PROCEDURES, MINIMIZING RISKS DURING CONSTRUCTION.			
G16	NO WORK ON ADJOINING LAND WITHOUT LANDOWNER CONSENT, SUBMITTED TO COUNCIL.	CONSENT REQUIRED BEFORE PHYSICAL INTERFERENCE.	E6	ALL IMPORTED MATERIALS MUST BE VIRGIN EXCAVATED NATURAL MATERIAL (VENM) FREE FROM CONTAMINATION. COUNCIL MAY REQUIRE CONTAMINATION REPORT FROM N.A.T.A. LABORATORY PRIOR TO PLACEMENT. ONLY FILL CHARACTERIZED AS VENM OR ENM PER NSW EPA GUIDELINES MAY BE USED. COPIES OF VALIDATION REPORTS TO BE PROVIDED TO SUPERINTENDENT AT LEAST 2 WEEKS PRIOR TO FILL WORKS.	ENSURES CLEAN FILL ACCORDING TO ENVIRONMENTAL PROTECTION AUTHORITY.	SW16	PVC PIPE FOR INTERNAL DRAINAGE (150mm to 300mm DIAMETER) TO CONFORM TO AS 1260-2002, RUBBER RING JOINED.	ENSURES COMPLIANCE FOR PROPERTY DRAINAGE, PER STANDARD, FOR SEALING AND DURABILITY.	SE16	ALL MILD STEEL FIXTURES (GRATES, FRAMES, STEP IRONS, LADDERS, ETC.) TO BE HOT-DIP GALVANIZED, COMPLYING WITH AS1214 OR AS1650 AS APPROPRIATE.	ENSURES DURABILITY, PER STANDARDS, FOR CORROSION RESISTANCE, CRITICAL FOR LONGEVITY.	U8	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR ENVIRONMENTAL AND PUBLIC HEALTH.			
G17	MAINTAIN ACCESS TO ADJOINING PROPERTIES AT ALL TIMES, U.N.O.	ENSURE NEIGHBOR ACCESS UNLESS OTHERWISE NOTED.	E7	ALL FILL WORKS TO BE UNDER LEVEL 1 GEOTECHNICAL SUPERVISION PER AS3798-2007.	ENSURES PROFESSIONAL OVERSIGHT, PER AS3798-2007, FOR QUALITY AND SAFETY.	SW17	PITS OVER 0.9m DEEP, PER COUNCIL'S STANDARD, TO HAVE STEP IRONS INSTALLED AT 300mm SPACING.	ENSURES SAFETY, WITH ACCESS FOR MAINTENANCE, PER COUNCIL GUIDELINES.	SE17	CONTRACTOR TO PROVIDE SUPERINTENDENT WITH STATEMENT CONFIRMING FILL SUITABILITY FOR AUDIT REPORT, AT LEAST 2 WEEKS PRIOR TO FILL WORKS.	ENSURES DOCUMENTATION FOR COMPLIANCE, CRITICAL FOR AUDIT AND QUALITY ASSURANCE.	U9	CONTRACTORS MUST BE AWARE OF AND COMPLY WITH ALL REGULATIONS AND STANDARDS FROM UTILITY AUTHORITIES CONCERNING THE USE OF MACHINERY AND EQUIPMENT NEAR UTILITY SERVICES.	ENSURES COMPLIANCE, PER UTILITY AUTHORITY GUIDELINES, PREVENTING DAMAGE FROM MACHINERY OPERATIONS.			
G18	WORKMANSHIP AND MATERIALS TO CONFORM TO RELEVANT CODES, SPECIFICATIONS, STANDARDS, BY LAWS.	COMPLIANCE WITH RELEVANT REGULATIONS.	E8	CONTRACTOR TO OBTAIN APPROVAL FROM GEOTECHNICAL ENGINEERS FOR USE OF VIBRATORY ROLLERS NEAR PERMANENT STRUCTURES DURING CONSTRUCTION.	PREVENTS DAMAGE TO EXISTING STRUCTURES, WITH GEOTECHNICAL OVERSIGHT FOR VIBRATION IMPACTS.	SW18	STORMWATER PIPES ABOVE VIRGIN NATURAL SURFACE LEVEL CONSTRUCTED IN CONTROL FILL.	ENSURES PROPER INSTALLATION, WITH CONTROLLED FILL FOR STABILITY.	SE18	ANY FILL WORKS ON LOTS TO BE TESTED BY N.A.T.A. REGISTERED LABORATORY. CERTIFICATION TO CONFIRM FILL PLACED AS STRUCTURAL FILL FOR RESIDENTIAL PURPOSES PER AS3798-2007.	ENSURES QUALITY, WITH LAB TESTING AND CERTIFICATION PER AS3798-2007, FOR RESIDENTIAL USE.	U10	CONTRACTOR TO IMPLEMENT WASTE MATERIAL SORTING, STORAGE, AND REUSE PER APPROVED WASTE MANAGEMENT PLAN AND COUNCIL'S SITE WASTE MANAGEMENT AND MINIMISATION DEVELOPMENT CONTROL PLAN.	ENSURES COMPLIANCE WITH LOCAL AUTHORITY GUIDELINES FOR SUSTAINABILITY AND WASTE REDUCTION.			
G19	NEW WORKS TO MAKE SMOOTH JUNCTION WITH EXISTING.	ENSURE SEAMLESS INTEGRATION WITH EXISTING STRUCTURES.	E9	NOTICE TO BE PROVIDED TO COUNCIL AT LEAST TWO BUSINESS DAYS PRIOR TO COMMENCING AND COMPLETING FILL WORKS, UNLESS NOTED OTHERWISE IN DA CONSENT.	ENSURES COUNCIL AWARENESS FOR INSPECTIONS, PER LOCAL REGULATIONS, AND DA CONSENT.	SW19	PITS OVER 0.9m DEEP, PER COUNCIL'S STANDARD, TO HAVE STEP IRONS INSTALLED AT 300mm SPACING.	ENSURES SAFETY, WITH ACCESS FOR MAINTENANCE, PER COUNCIL GUIDELINES.	SE19	ALL PITS SHALL BE BENCHED AND FLOW STREAMLINED.	ENSURES EFFICIENT FLOW.	U11	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR ENVIRONMENTAL AND PUBLIC HEALTH.			
G20	ALL CONSTRUCTION PER COUNCIL'S CONSTRUCTION SPECIFICATION.	FOLLOW LOCAL AUTHORITY GUIDELINES.	E10	CONTRACTOR TO PROVIDE SUPERINTENDENT WITH STATEMENT CONFIRMING FILL SUITABILITY FOR AUDIT REPORT, AT LEAST 2 WEEKS PRIOR TO FILL WORKS.	ENSURES DOCUMENTATION FOR COMPLIANCE, CRITICAL FOR AUDIT AND QUALITY ASSURANCE.	SW20	RESERVED.	RESERVED.	SE20	RESERVED.	RESERVED.	U12	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR ENVIRONMENTAL AND PUBLIC HEALTH.			
G21	STUDY APPROVED DRAWINGS AND DOCUMENTATION BEFORE STARTING, RAISE ISSUES TO SITE SUPERINTENDENT.	ENSURE UNDERSTANDING AND ADDRESS DISCREPANCIES.	E11	ANY FILL WORKS ON LOTS TO BE TESTED BY N.A.T.A. REGISTERED LABORATORY. CERTIFICATION TO CONFIRM FILL PLACED AS STRUCTURAL FILL FOR RESIDENTIAL PURPOSES PER AS3798-2007.	ENSURES QUALITY, WITH LAB TESTING AND CERTIFICATION PER AS3798-2007, FOR RESIDENTIAL USE.	SW21	CONTRACTOR TO ENSURE PIPES ARE PROTECTED AGAINST DAMAGE FROM CONSTRUCTION WHEELS, LOADS, AND COMPACTION EFFECTS, PER ASINZS 3725.	ENSURES PIPE INTEGRITY, PER STANDARD, DURING CONSTRUCTION, CRITICAL FOR LONGEVITY.	SE21	RESERVED.	RESERVED.	U13	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR ENVIRONMENTAL AND PUBLIC HEALTH.			
G22	CONTRACTOR RESPONSIBLE FOR BREACHES OF CLEAN WATERS ACT 1970.	COMPLIANCE WITH NSW WATER PROTECTION LAWS.	E12	LOT FILL TO BE COMPACTED TO NO LESS THAN 95% SMD (STANDARD MAXIMUM DRY DENSITY), OTHERWISE NOTED IN COUNCIL'S SPECIFICATION.	ENSURES STRUCTURAL STABILITY, PER COMPACTION STANDARDS, CRITICAL FOR LOAD-BEARING CAPACITY.	SW22	RESERVED.	RESERVED.	SE22	RESERVED.	RESERVED.	U14	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR ENVIRONMENTAL AND PUBLIC HEALTH.			
G23	NOTIFY OWNER'S REPRESENTATIVE OF WATER IN EXCAVATIONS.	MANAGE WATER-RELATED ISSUES DURING CONSTRUCTION.	E13	IF UNDETECTED CONTAMINATED MATERIALS ENCOUNTERED DURING CONSTRUCTION, ALL WORK TO CEASE, NOTIFY SUPERINTENDENT, AND UNDERTAKE "UNEXPECTED FINDS PROTOCOL" WITH ENVIRONMENTAL CONSULTANT TO INVESTIGATE AND ADVISE ON REMEDIAL MEASURES IF REQUIRED.	ENSURES SAFETY AND COMPLIANCE, PER ENVIRONMENTAL REGULATIONS, WITH PROTOCOL FOR CONTAMINATION MANAGEMENT.	SW23	RESERVED.	RESERVED.	SE23	RESERVED.	RESERVED.	U15	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR ENVIRONMENTAL AND PUBLIC HEALTH.			
G24	SUBMIT SITE-SPECIFIC CONSTRUCTION METHODOLOGY, INCLUDING OFFICE SETUP, TOILETS, STAGING, AND ENVIRONMENTAL PROTECTION.	DETAILED PROGRAM ADDRESSING SITE SETUP AND COMPLIANCE.	SIGNAGE AND PAVEMENT LINE MARKINGS			REF. DESCRIPTION	DETAILS	SW24	CONTRACTOR TO OBTAIN APPROVAL FROM GEOTECHNICAL ENGINEERS FOR USE OF VIBRATORY ROLLERS NEAR PERMANENT STRUCTURES DURING CONSTRUCTION.	PREVENTS DAMAGE TO EXISTING STRUCTURES, WITH GEOTECHNICAL OVERSIGHT FOR VIBRATION IMPACTS.	SE24	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR ENVIRONMENTAL AND PUBLIC HEALTH.				
G25	FILL IMPORTED PER COUNCIL'S SPECIFICATION; STOP WORK IF CONTAMINATION SUSPECTED UNTIL VALIDATED BY NSW EPA AUDITOR.	ENSURE FILL SUITABILITY, WITH VALIDATION PROCESS IF NEEDED.	M1	RESERVED.	RESERVED.	SW25	ALL PITS SHALL BE BENCHED AND FLOW STREAMLINED.	ENSURES EFFICIENT FLOW.	SE25	CONTRACTOR TO PROVIDE SUPERINTENDENT WITH STATEMENT CONFIRMING FILL SUITABILITY FOR AUDIT REPORT, AT LEAST 2 WEEKS PRIOR TO FILL WORKS.	ENSURES DOCUMENTATION FOR COMPLIANCE, CRITICAL FOR AUDIT AND QUALITY ASSURANCE.	U16	CONTRACTOR TO ENSURE ALL LITTER IS MANAGED ONSITE USING WASTE RECEPTACLES, WHICH MUST BE COVERED WHEN NOT IN USE.	ENSURES SITE CLEANLINESS, PER SITE MANAGEMENT PRACTICES, PREVENTING LITTER DISPERSAL, CRITICAL FOR			



LEGEND	
SYMBOL/LINES	DESCRIPTION
	EXISTING PROPERTY BOUNDARY
	EXISTING CONTOUR WITH LABEL (0.5m INTERVAL)
	EXISTING TREES
	EXISTING BUILDING

- NOTE:**
- THIS PLAN HAS BEEN SHARED AND SHOWN IN CIVIL SET FOR INFORMATION ONLY. REFER TO THE DETAILED SURVEY WITH REFERENCE BELOW FOR THE ORIGINAL INFORMATION.
 - DETAILED SURVEY DATA WITH REFERENCE BELOW HAS BEEN ADOPTED FOR DETAILED DESIGN:
 - REFERENCE: SY076297
 - REVISION: 3
 - DATE: 11/02/2025
 - COORDINATE SYSTEM: GDA2020 MGA 56
 - UNDERTAKEN BY: MNG LANDPARTNERS
 - DATA FORMAT: DWG & PDF FILES (PROVIDED TO MKN)
 - THIS PLAN IS PREPARED FROM A COMBINATION OF FIELD SURVEY AND BYD RECORDS FOR INFORMATION ONLY.
 - REFER TO THE SURVEY PLAN FOR SURVEY CONTROL POINTS, COORDINATES, AND DATUM INFORMATION
 - THE EXISTING PROPERTY BOUNDARY OF THE SUBJECT SITE HAS BEEN ADOPTED FROM THE SURVEY DATA PROVIDED. IT IS TO BE MARKED AND CONFIRMED BY A REGISTERED SURVEYOR PRIOR TO COMMENCING SITE WORKS.
 - NOT ALL EXISTING SERVICES ARE SHOWN ON THIS PLAN. SERVICES SHOWN HAVE BEEN IDENTIFIED WHERE POSSIBLE THROUGH FIELD SURVEY AND AVAILABLE INFORMATION SOURCES. THEY ARE INDICATIVE ONLY.
 - THIS PLAN IS INDICATIVE AND FOR INFORMATION ONLY. THE CONTRACTOR IS TO FAMILIARISE THEMSELVES WITH THE SITE, VALIDATING THE SURVEY DATA, AND GET FULL UNDERSTANDING OF THE EXISTING SITE CONDITIONS.
 - PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE CONTRACTOR MUST HAVE ALL REQUIRED APPROVAL FROM THE RELEVANT AUTHORITY.
 - ALL PROTECTION MEASURES MUST BE IN PLACE TO PROTECT EXISTING SERVICES. CONTRACTOR IS TO CONTACT AND OR LIAISE WITH THE EXISTING ASSET OWNERS WHERE REQUIRED.
 - NO WORKS TO BE DONE ON THE EXISTING SERVICES WITHOUT CONSENT/APPROVAL FROM THE ASSET OWNERS.

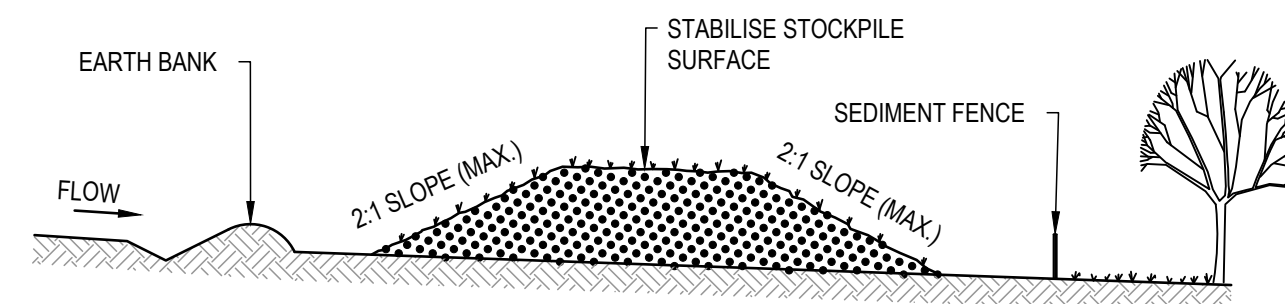


FOR DA ONLY

ARCHITECT				DEVELOPER		CONSULTANT		APPROVED BY		PROJECT TITLE		SHEET TITLE	
Raw Process rawprocessdesign.com				CHANGE DEVELOPMENTS		MKN CIVIL CONSULTING 61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKN CIVIL.COM.AU		MKN MV MKN MKN		415 SYDNEY ROAD, BALGOWLAH		EXISTING SITE & SURVEY CONTROL PLAN	
ISSUED FOR DA				MKN MKN 23/06/2025		61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKN CIVIL.COM.AU		MKN MV MKN MKN		PROJECT NO. 202429		DRG No. 202429-C010	
AMENDMENTS DESCRIPTION				MKN MKN 23/06/2025		61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKN CIVIL.COM.AU		MKN MV MKN MKN		PROJECT NO. 202429		SHEET No. C010	
				MKN MKN 23/06/2025		61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKN CIVIL.COM.AU		MKN MV MKN MKN		PROJECT NO. 202429		SHEET No. C010	

NOTES

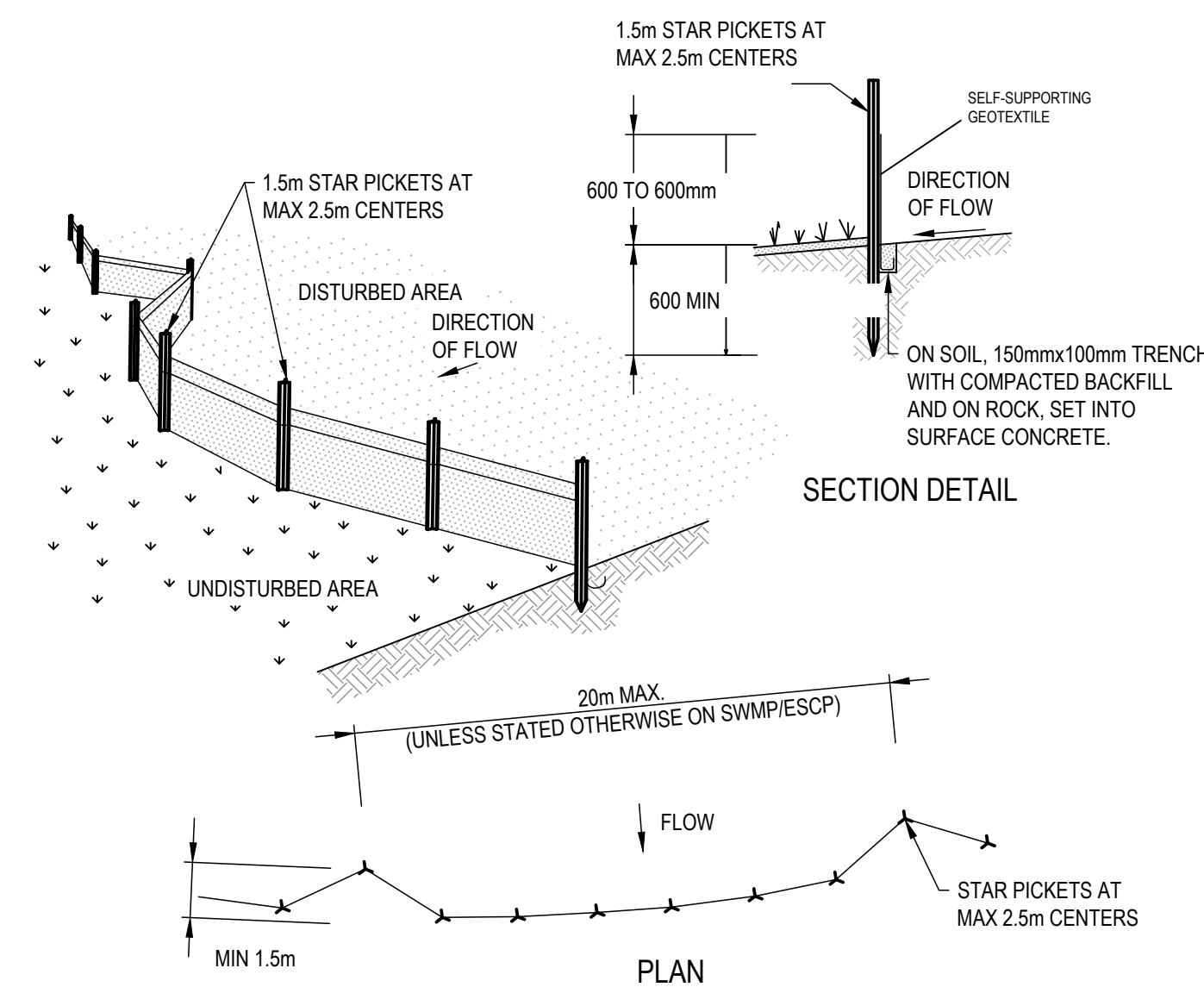
1. CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES BEFORE DISTURBING WORK AREA, PER COUNCIL SATISFACTION AND "SOILS AND CONSTRUCTION VOL.1 4th ED. MARCH 2004, MANAGING URBAN STORMWATER".



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) 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 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

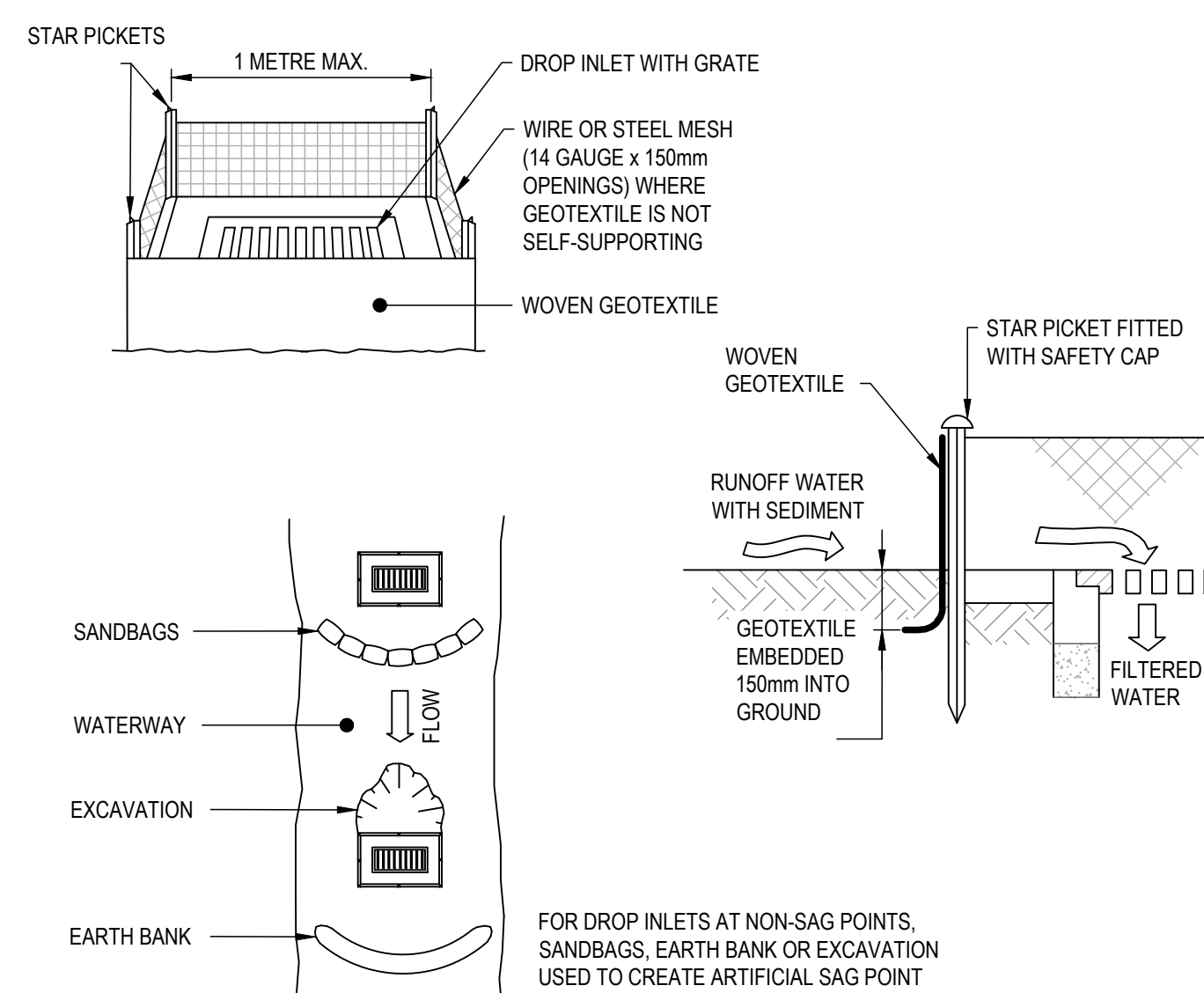
STOCKPILES (SD 4-1)



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 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE 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.

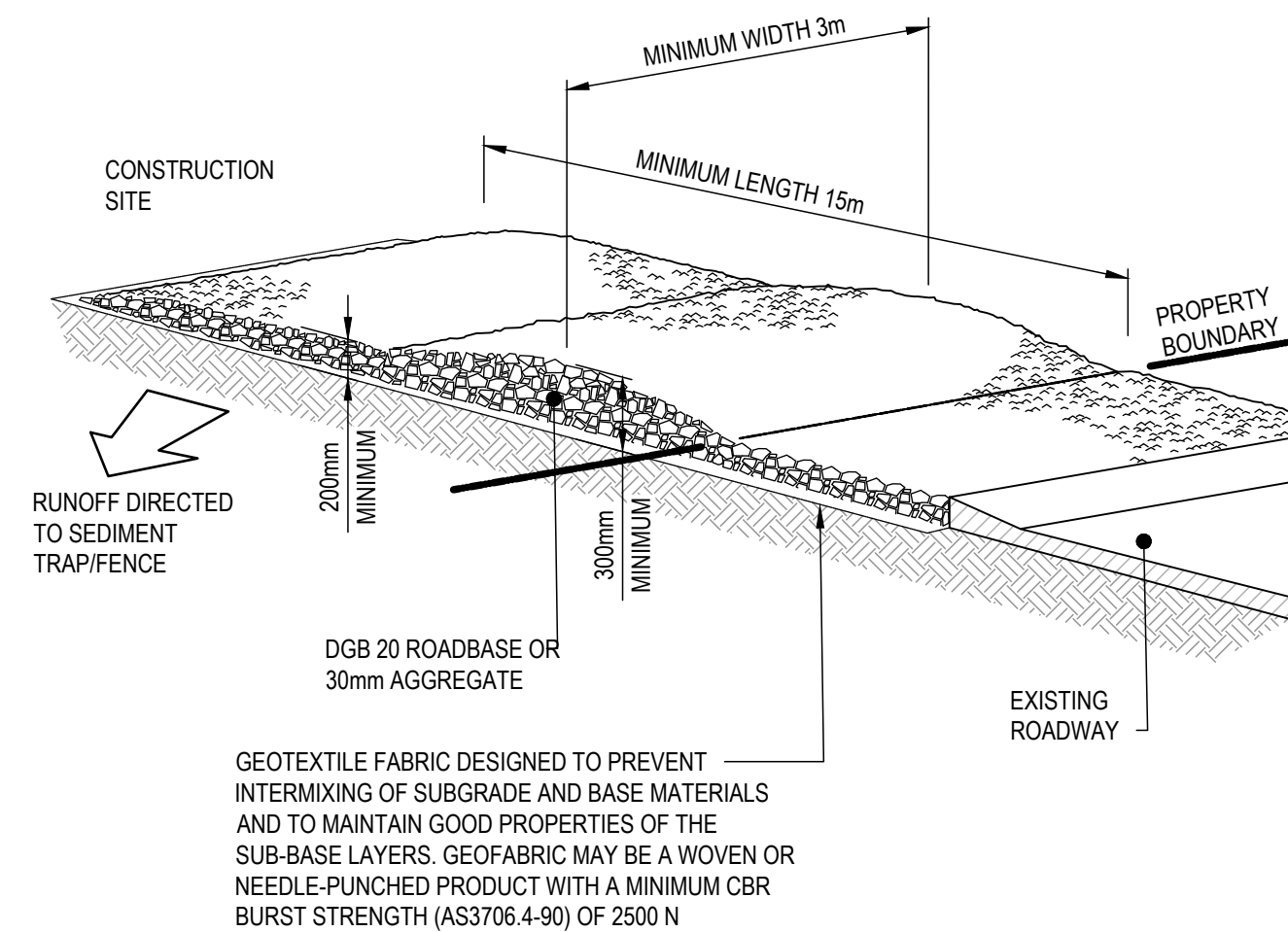
SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
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 GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)



CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.


STABILISED SITE ACCESS (SD 6-14)

A	ISSUED FOR DA		MKN	MKN	23/06/2025
REV	AMENDMENTS DESCRIPTION		DRWN	APPD	_ DATE

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The logo for Change Developments is centered in the top section. It consists of a blue circular arrow icon on the left, followed by the word 'CHANGE' in a large, bold, blue sans-serif font, and the word 'DEVELOPMENTS' in a smaller, blue sans-serif font below it.

<div style="text-align: center;"> CONSULTANT </div> <div style="text-align: center;">  </div> <div> 61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKNCIVIL.COM.AU </div> <div style="text-align: right;"> POSTCODE: 2176 </div>		APPROVED BY	MKN
		CHECKED BY	MV
		DESIGNED BY	MKN
		DRAWN BY	MKN
		COORDINATES: AS PER SURVEY PLAN	

PROJECT TITLE	
415 SYDNEY ROAD, BALGOWLAH	
PROJECT NO.	202429

SHEET TITLE		
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS		

DRG No. 202429-C030	SHEET No. C030	AMDT A

A

LEGEND	
SYMBOL/LINES	DESCRIPTION
	EXTENT OF WORKS LINE
	EXISTING CONTOURS
	PROPOSED SURFACE INLET PIT
	PROPOSED STORMWATER PIPE
	NEW VEHICULAR CROSSING
	NEW ACCESS DRIVEWAY
	NEW INTERNAL DRIVEWAY

B

C

D

E

F

G



A

B

C

D

E

F

G

H


H

NOTES

- REFER TO SHEET C031 FOR EROSION & SEDIMENT CONTROL PLAN.
- REFER TO SHEET C220 FOR MORE DETAILS OF DRIVEWAY.
- REFER TO SHEET C600 FOR STORMWATER DRAINAGE PLAN.

REV	ISSUED FOR DA	AMENDMENTS DESCRIPTION	MKN	MKN	23/06/2025
A			DRWN	APPD	DATE


ARCHITECT


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DEVELOPER



CONSULTANT


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APPROVED BY MKN
CHECKED BY MV
DESIGNED BY MKN
DRAWN BY MKN
COORDINATES: AS PER SURVEY PLAN

PROJECT TITLE

415 SYDNEY ROAD, BALGOWLAH

PROJECT NO. 202429

SHEET TITLE

PLAN OF CIVIL WORKS

DRG No. 202429-C200

SHEET No. C200

AMDT A

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B

C

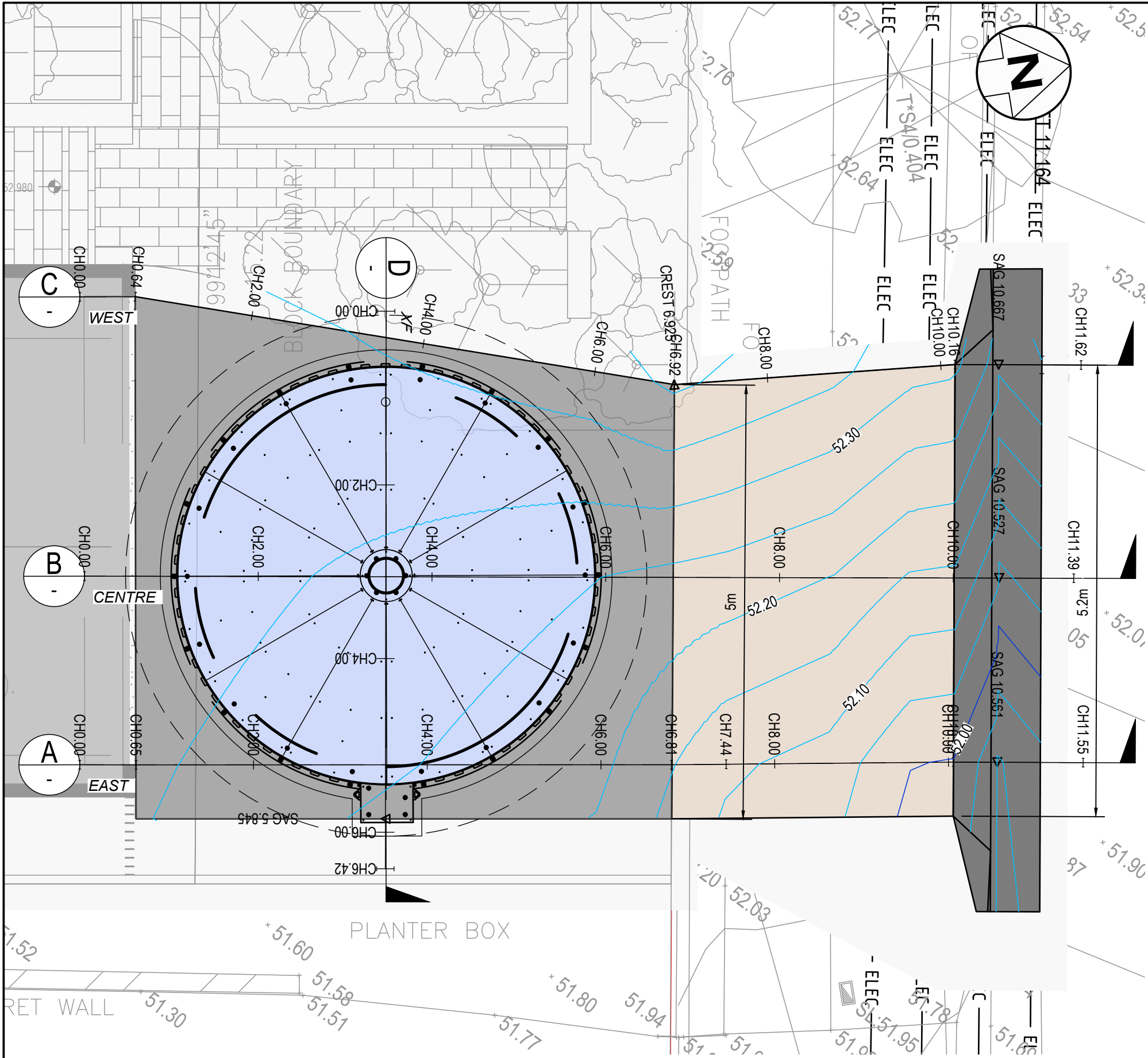
D

E

F

G

H



DRIVEWAY PLAN
SCALE 1:50

VERTICAL GEOMETRY GRADE (%)

DATUM RL = 50.700

FINISHED SURFACE LEVEL	52.325	52.324	52.228	52.198	52.145	52.140	52.057	52.037	52.077
EXISTING SURFACE LEVEL	52.645	52.640	52.274	52.283	52.200	52.189	52.050	52.050	52.077
CUT / FILL	-0.320	-0.316	-0.047	-0.085	-0.055	-0.049	0.007	-0.013	0.000
CONTROL LINE CHAINAGE	0	1.008	7.431	8.631	9.497	10.027	10.523	10.527	11.027

SECTION B - CENTRE OF DRIVEWAY

HORIZONTAL SCALE 1:50
VERTICAL SCALE 1:25

VERTICAL GEOMETRY GRADE (%)

DATUM RL = 50.900

FINISHED SURFACE LEVEL	52.364	52.354	52.287	52.257	52.242	52.280
EXISTING SURFACE LEVEL	52.700	52.695	52.657	52.276	52.278	52.280
CUT / FILL	-0.336	-0.341	-0.370	-0.019	-0.037	0.000
CONTROL LINE CHAINAGE	0	0.305	3.058	5.224	5.838	6.42

CROSS SECTION D

HORIZONTAL SCALE 1:50
VERTICAL SCALE 1:25

VERTICAL GEOMETRY GRADE (%)

DATUM RL = 50.500

FINISHED SURFACE LEVEL	52.325	52.325	52.300	52.214	52.153	52.110	52.110	52.080	52.002	51.997	51.997	51.914	51.895	51.934	51.948
EXISTING SURFACE LEVEL	52.402	52.341	52.326	52.217	52.170	52.132	52.129	52.122	52.040	51.991	51.990	51.908	51.895	51.934	51.948
CUT / FILL	-0.076	-0.016	-0.026	-0.003	-0.017	-0.022	-0.019	-0.042	-0.037	0.006	0.007	-0.006	-0.014	0.000	-0.000
CONTROL LINE CHAINAGE	0	0.649	1.129	5.946	6.812	7.426	7.441	8.626	9.561	10.054	10.061	10.557	10.561	11.061	11.155

SECTION A - EASTERN EDGE OF DRIVEWAY

HORIZONTAL SCALE 1:50
VERTICAL SCALE 1:25

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

DATUM RL = 50.900

FINISHED SURFACE LEVEL	52.325	52.325	52.379	52.407	52.362	52.316	52.311	52.311	52.228	52.208	52.248	52.262
EXISTING SURFACE LEVEL	52.650	52.671	52.739	52.508	52.441	52.414	52.403	52.402	52.220	52.220	52.248	52.262
CUT / FILL	-0.325	-0.346	-0.360	-0.100	-0.079	-0.098	-0.091	-0.091	0.008	-0.012	-0.000	-0.000
CONTROL LINE CHAINAGE	0	0.639	5.993	6.925	8.755	9.667	10.164	10.167	10.663	10.667	11.167	11.615

SECTION C - WESTERN EDGE OF DRIVEWAY

HORIZONTAL SCALE 1:50
VERTICAL SCALE 1:25

REV	ISSUED FOR DA	AMENDMENTS DESCRIPTION	MKN	MKN	23/06/2025
A	ISSUED FOR DA				

ARCHITECT

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DEVELOPER

CHANGE
DEVELOPMENTS

CONSULTANT

MKN
CIVIL CONSULTING
ABOVE AND BEYOND

61 GREENFIELD ROAD, GREENFIELD PARK
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POSTCODE: 2176

APPROVED BY MKN
CHECKED BY MV
DESIGNED BY MKN
DRAWN BY MKN
COORDINATES: AS PER SURVEY PLAN

PROJECT TITLE

415 SYDNEY ROAD, BALGOWLAH

PROJECT NO. 202429

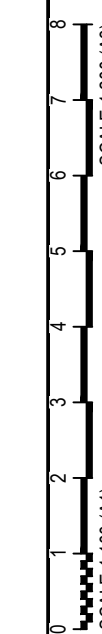
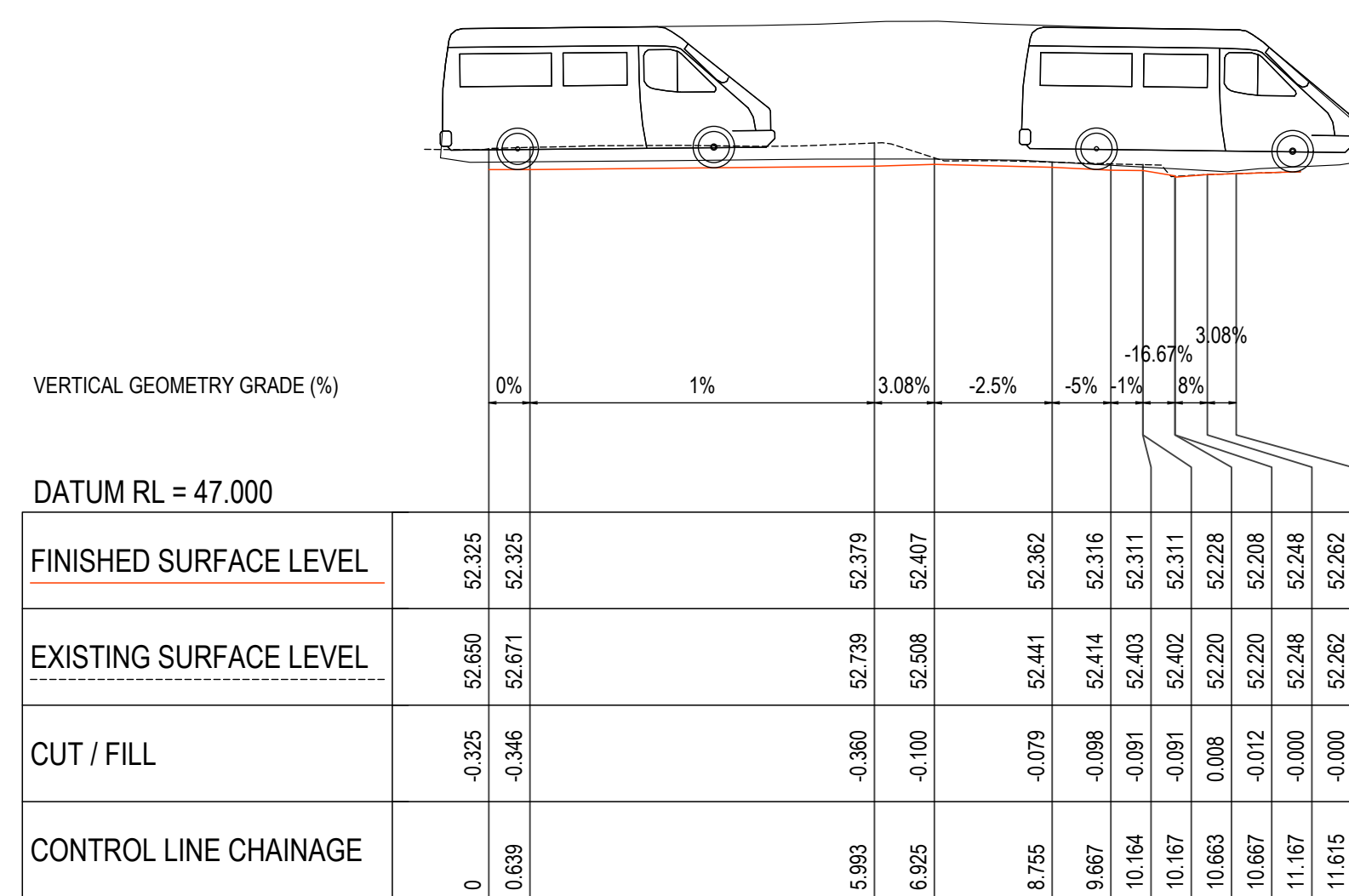
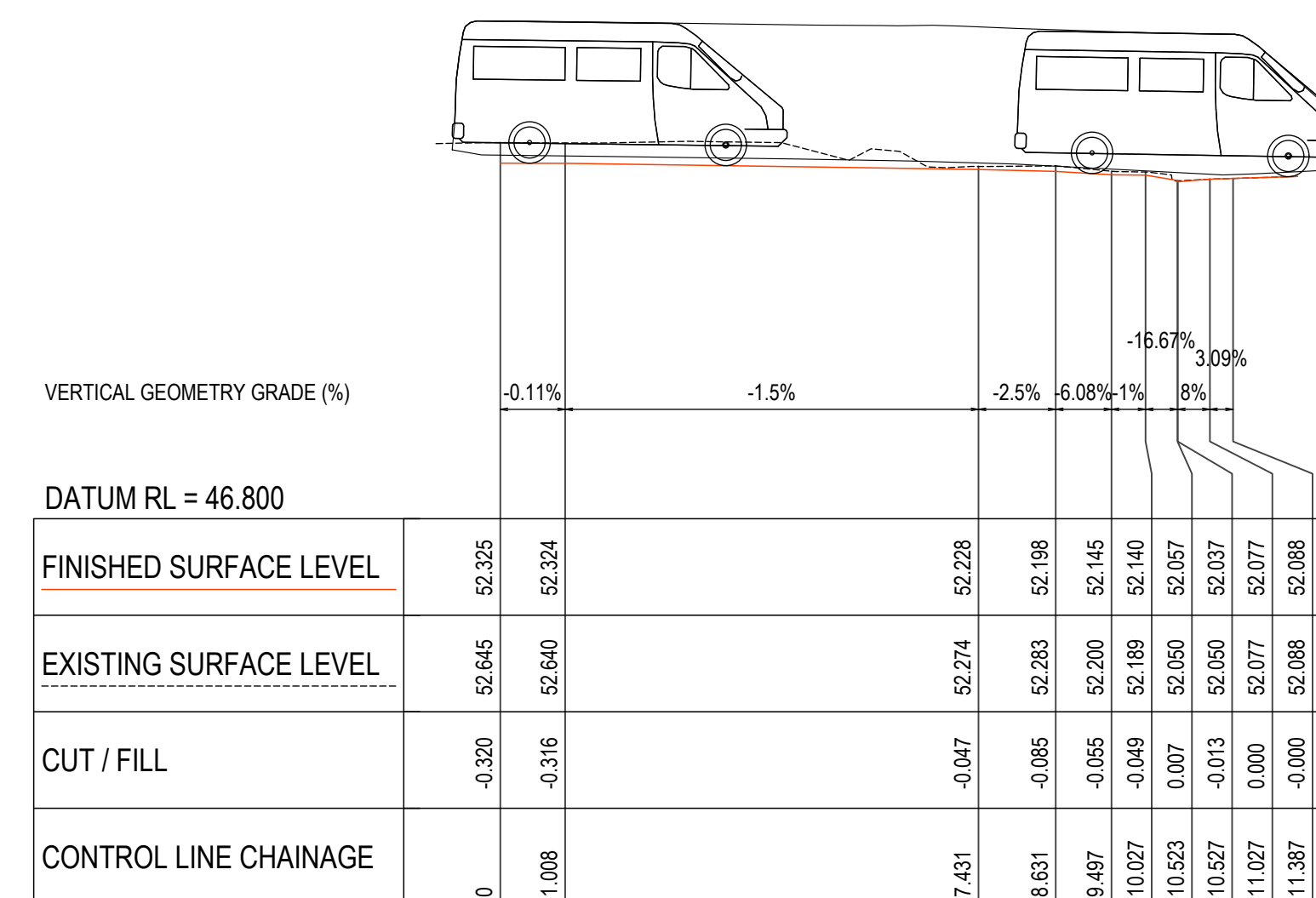
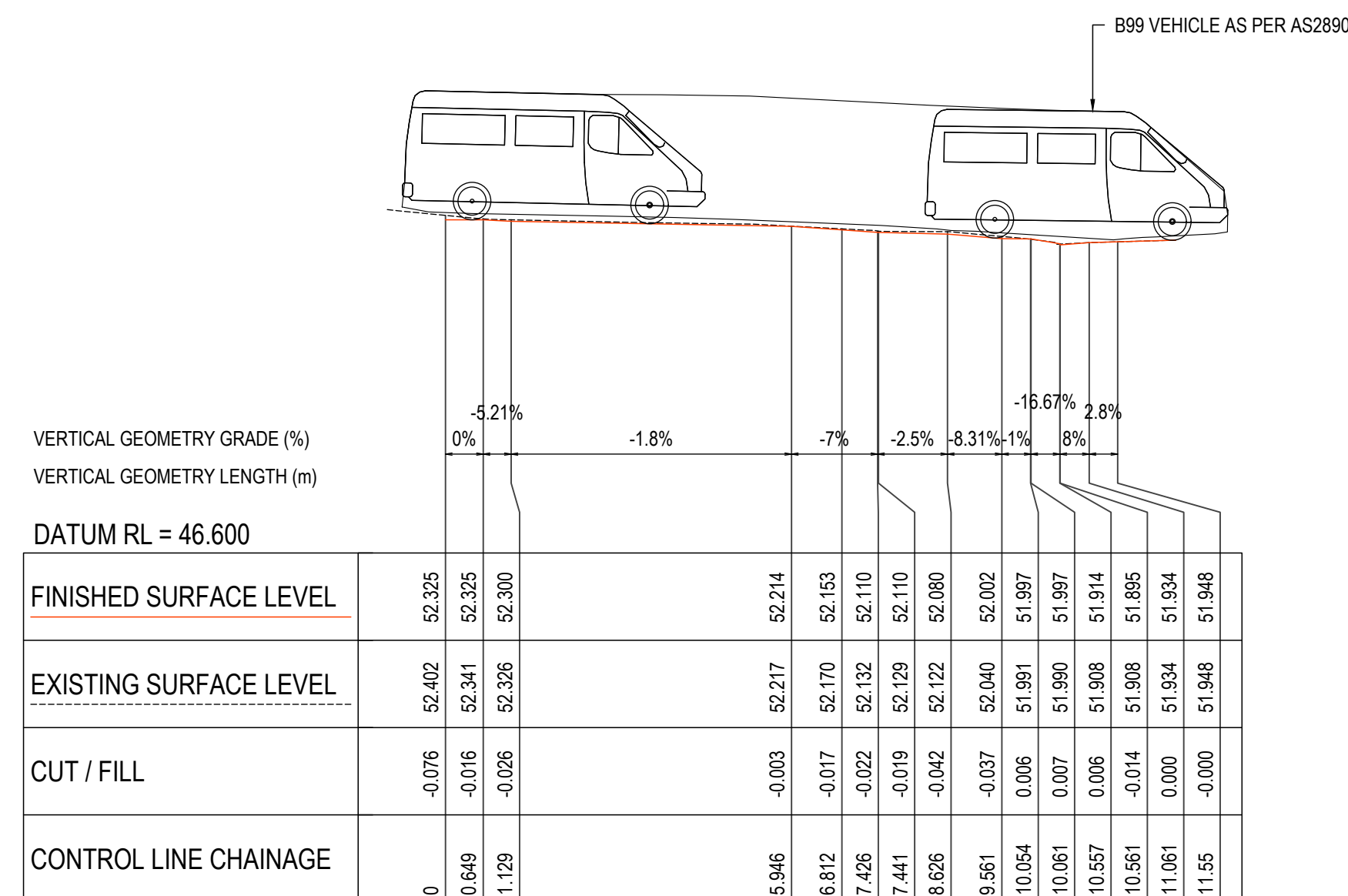
SHEET TITLE

DRIVEWAY LONGITUDINAL SECTIONS
& CROSS SECTION

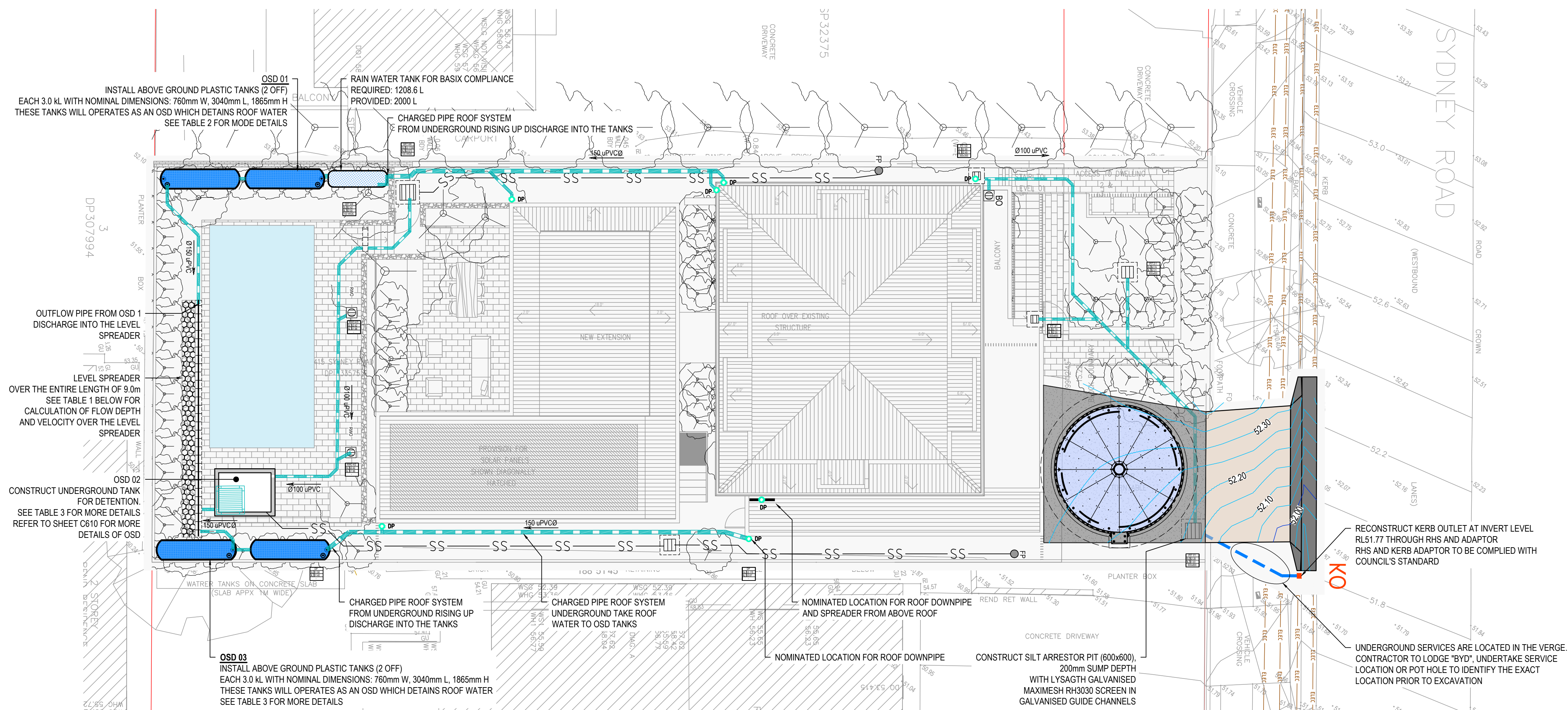
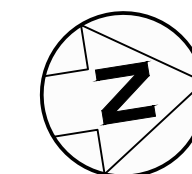
DRG No. 202429-C220

SHEET No. C220

AMDT A



A	ISSUED FOR DA		MKN	MKN	23/06/2025
REV	AMENDMENTS DESCRIPTION		DRWN	APPD	_ _ DATE



LEGEND

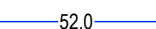



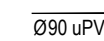







SYMBOL/LINES	DESCRIPTION
	DESIGNED MAJOR CONTOUR (1.0m INTERVAL)
	DESIGNED MINOR CONTOUR (50mm INTERVAL)
	PROPOSED STORMWATER PIPE
	PROPOSED GRATED SURFACE INLET PIT
 Ø90 uPVC	PIPE DIAMETER/PIPE FLOW DIRECTION
	KERB ADAPTOR, UPVC SEWER GRADE 150mm CORDINA TYPE OR SIMILAR, 355mm LONG, SUITS 150mm PVC SW CONNECTION PIPE WHICH EXTENDED 1.0m BEYOND THE LOT BOUNDARY FOR ROOF CONNECTION
	SUBSOIL DRAIN (SLOTTED PIPE)
	FLUSH POINT FOR SUBSOIL DRAIN
	ABOVE GROUND PLASTIC TANK FOR ROOF WATER DETENTION
	RAINWATER TANK FOR BASIX REQUIREMENT
	RAINWATER OUTLET
	BALCONY RAINWATER OUTLET

TABLE 2: PERFORMANCE SUMMARY OF OSD 01

OSD 01 TANK PERFORMANCE						
STORM EVENT (AEP)	WATER SURFACE LEVEL (WSL) RL(m)		DETENTION VOL. REQUIRED (m³)	ORIFICE SIZE (DIA) (mm)	INTERNAL WEIR	NOTES
98.17%		52.460	0.740	25 CENTRE AT RL52.616	NONE	ORIFICE CONTROL ONLY
63.21%		52.630	1.510			
20%		52.870	2.600			
5%		53.130	3.800			
1%		53.440	5.270			
BASIN'S FLOOR - DATUM (RL)		52.3				

TABLE 3: PERFORMANCE SUMMARY OF OSD 02

OSD 02 TANK PERFORMANCE					
STORM EVENT (AEP)	WATER SURFACE LEVEL (WSL) RL(m)	DETENTION VOL. REQUIRED (m³)	ORIFICE SIZE (DIA) (mm)	INTERNAL WEIR	NOTES
98.17%	51.570	0.200	50 CENTRE AT RL51.525	NONE	ORIFICE CONTROL ONLY
63.21%	51.630	0.390			
20%	51.750	0.740			
5%	51.890	1.170			
1%	52.080	1.740			
BASIN'S FLOOR - DATUM (RL)	51.500				

TABLE 3: PERFORMANCE SUMMARY OF OSD 03

OSD 03 TANK PERFORMANCE						
STORM EVENT (AEP)	WATER SURFACE LEVEL (WSL) RL(m)	DETENTION VOL. REQUIRED (m³)	ORIFICE SIZE (DIA) (mm)	INTERNAL WEIR	NOTES	
98.17%	52.060	0.720	25 CENTRE AT RL52.216	NONE	ORIFICE CONTROL ONLY	
63.21%	52.220	1.470				
20%	52.460	2.580				
5%	52.730	3.800				
1%	53.050	5.300				
BASIN'S FLOOR - DATUM (RL)	51.900					

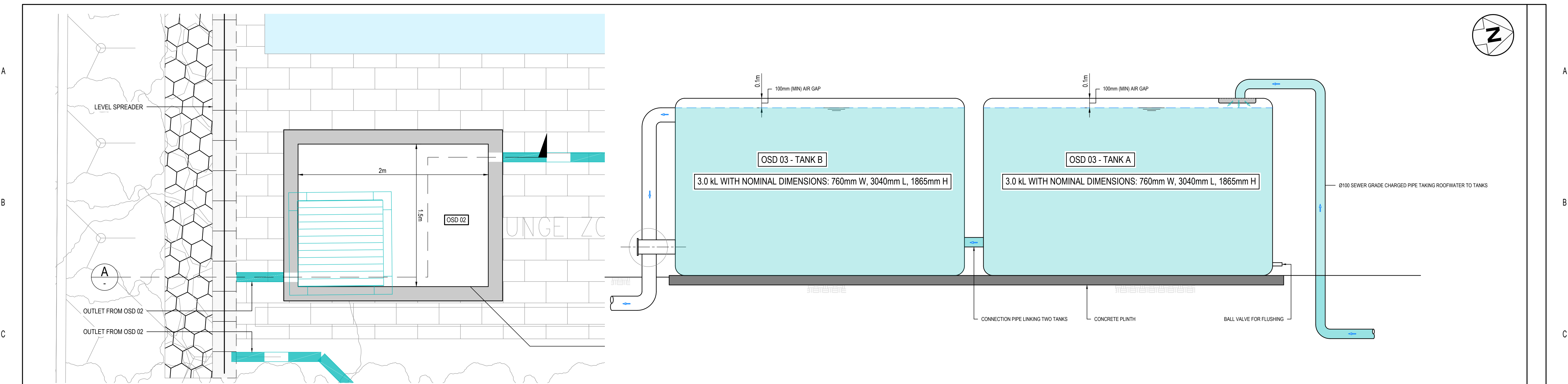
TABLE 1: FLOW DEPTH & VELOCITY OVER THE LEVEL SPREADER

L (m)	9.00
C	1.70
H (FLOW DEPTH) - m	0.0065
Q (C x L x H ^1.5) - l/s	8
VELOCITY (m/s)	0.137

NOTES

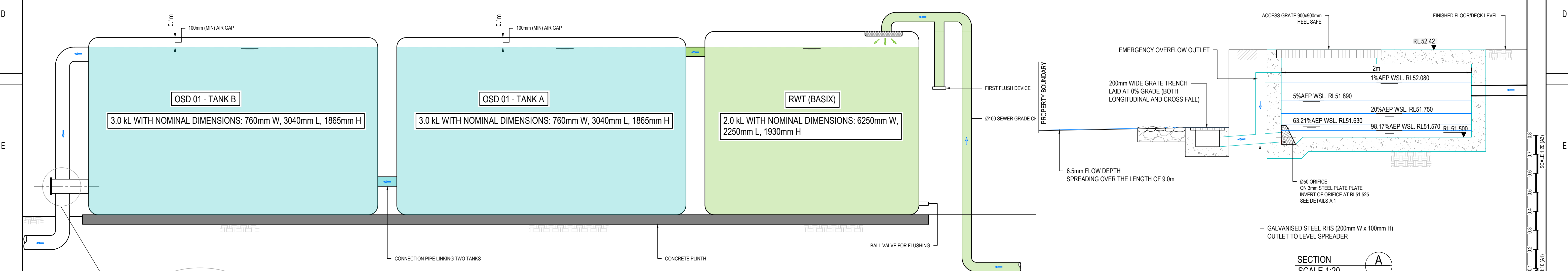
1. CONTRACTOR IS TO IDENTIFY THE EXACT LOCATION OF THE EXISTING SERVICES ALONG THE VERGE PRIOR TO EXCAVATION.
2. REFER TO SHEET C003 FOR SPECIFICATION NOTES.
3. REFER TO SHEET C200 FOR CIVIL WORKS.
4. REFER TO C610 FOR MORE DETAILS OF OSD TANKS.
5. REFER TO SHEET C765 FOR PRE_DEVELOPMENT CATCHMENT PLAN.
6. REFER TO SHEET C775 FOR POST_DEVELOPMENT CATCHMENT PLAN.
7. STORMWATER DRAINAGE MUST BE CONNECTED TO THE COUNCIL'S APPROVED SYSTEM.

[illegible]



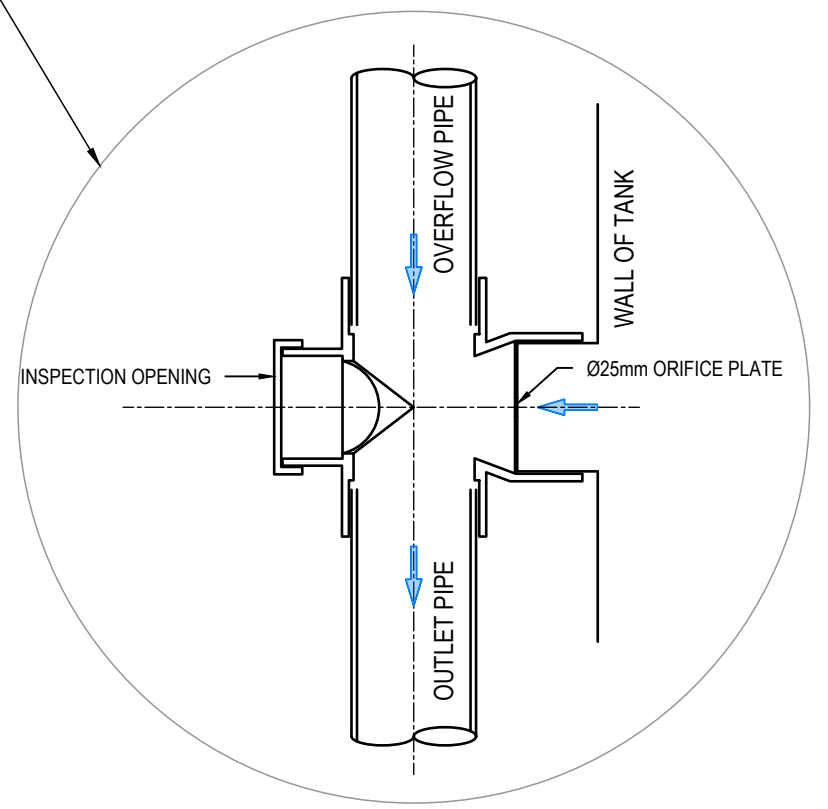
OSD 02 - PLAN
SCALE 1:20

OSD 03 - ELEVATION
SCALE 1:20

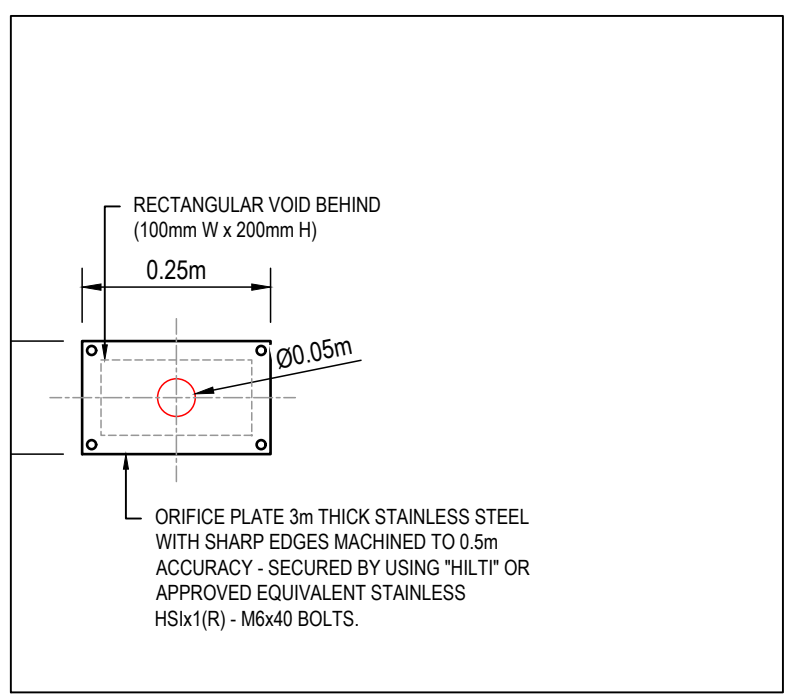


OSD 01 - ELEVATION
SCALE 1:20

SECTION
SCALE 1:20

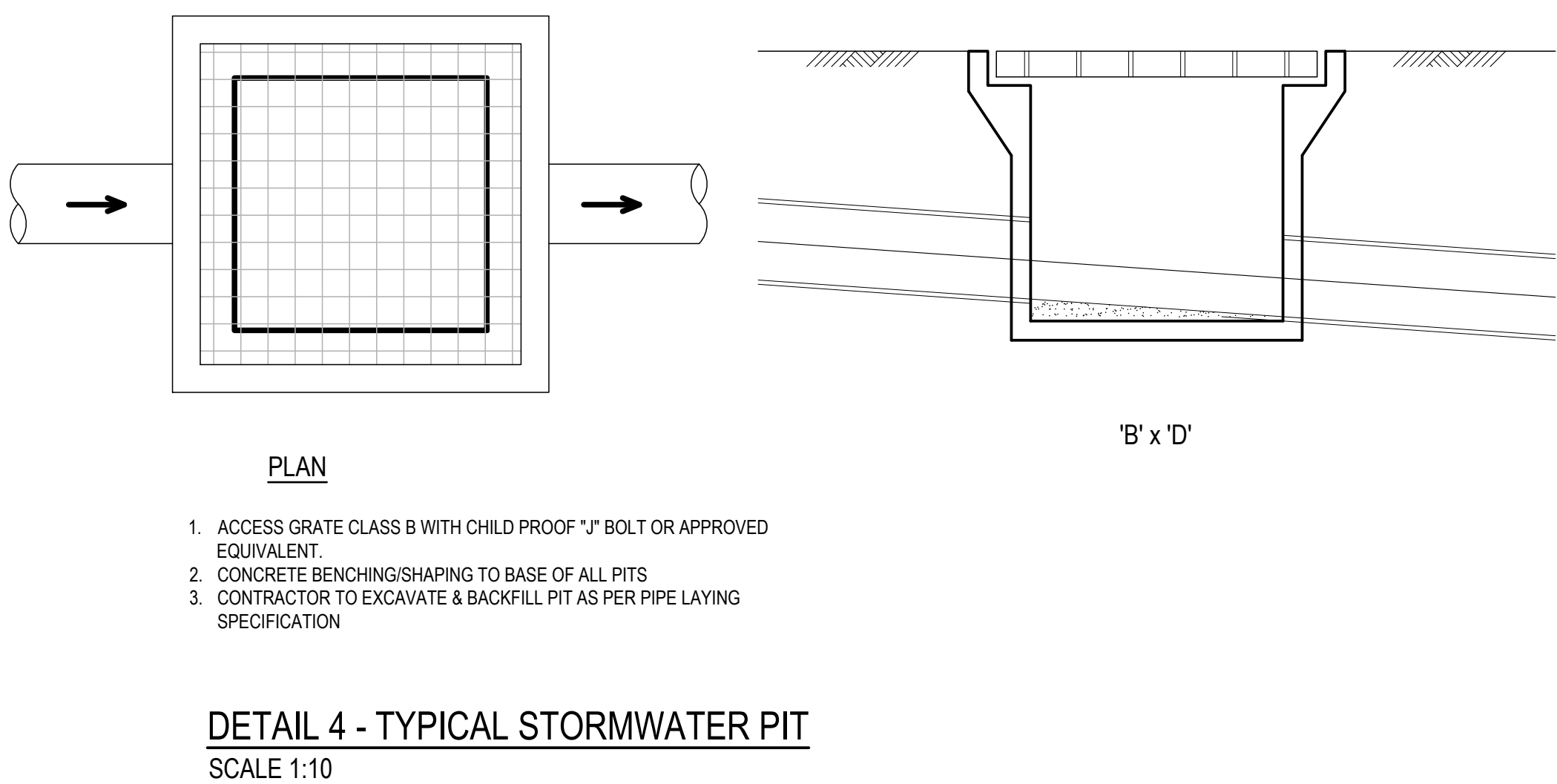
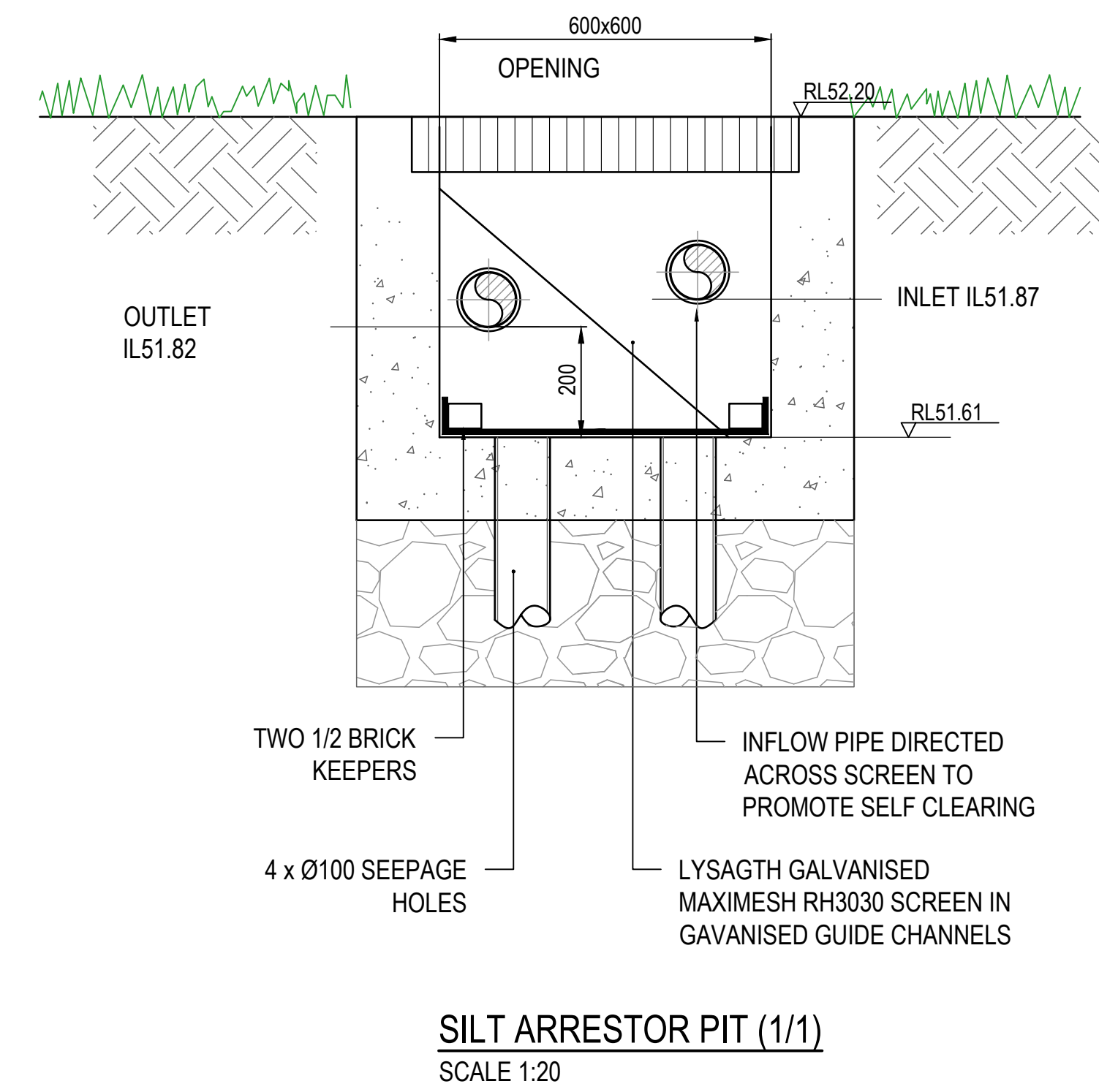
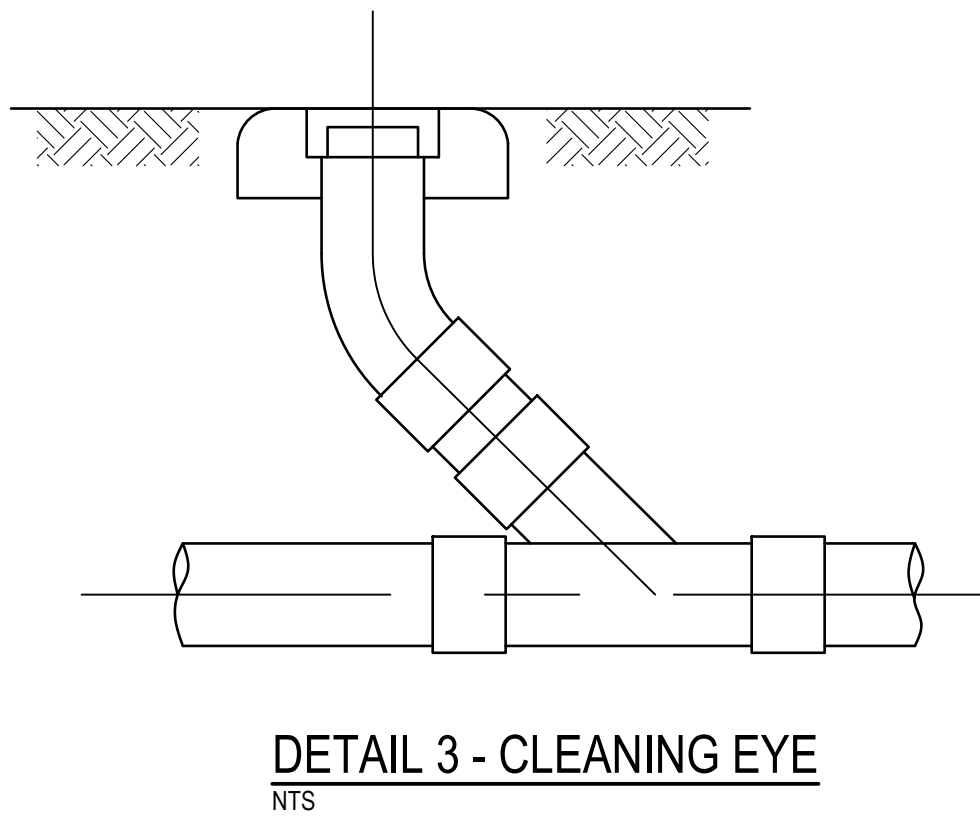
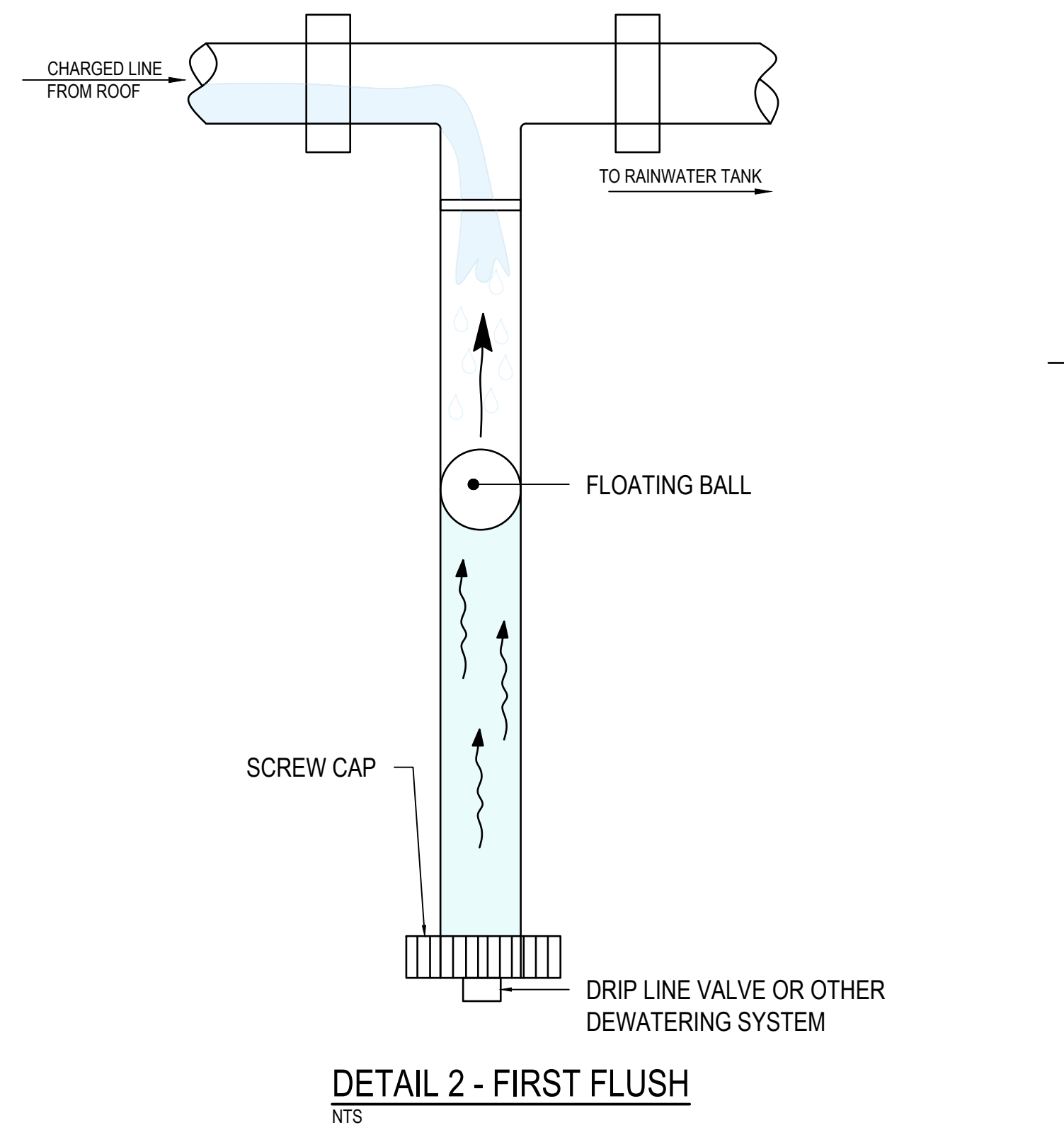
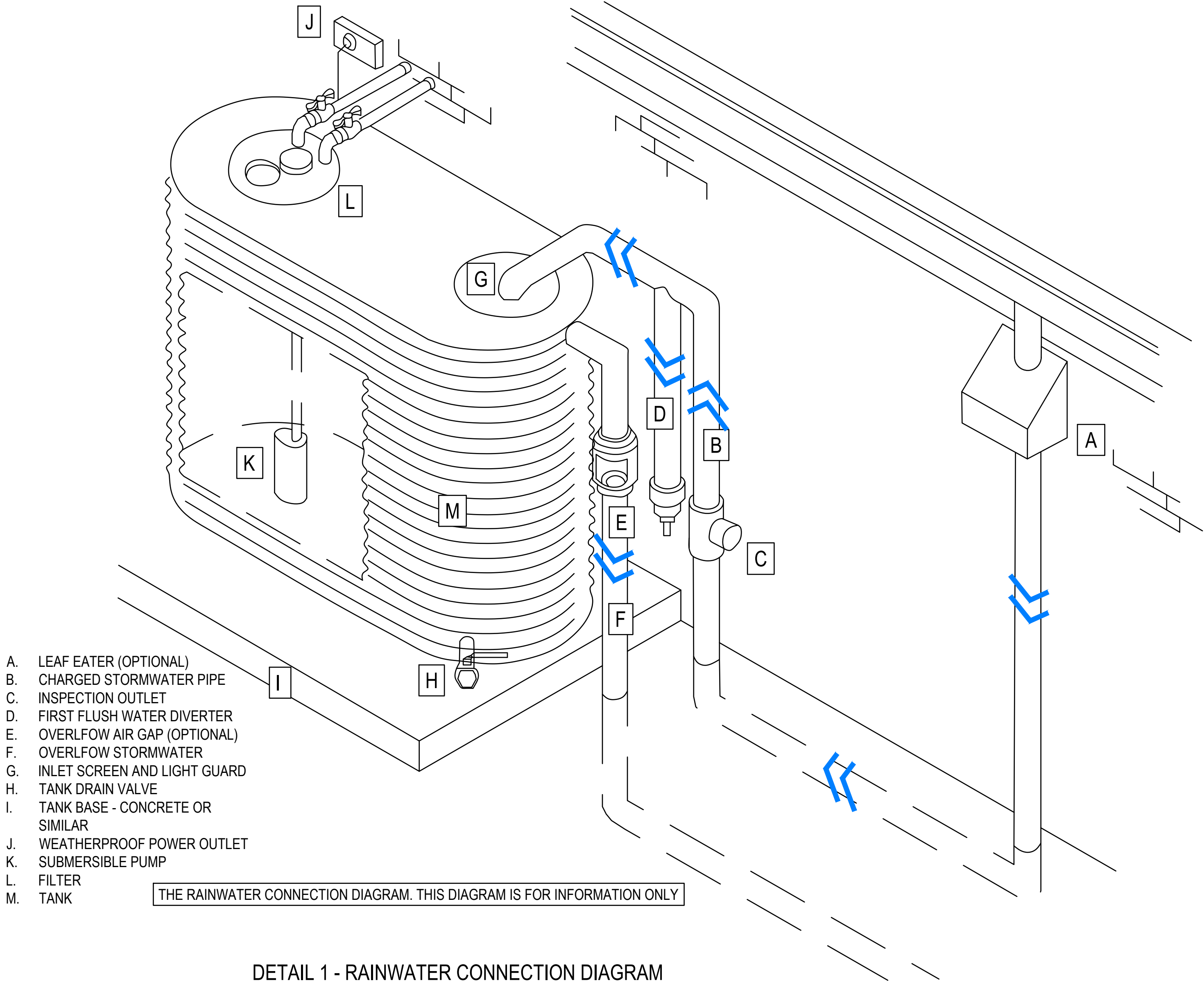


TYPICAL CONTROL OUTLET FOR OSD 01 & OSD 03
SCALE 1:10



ORIFICE PLATES
SCALE 1:10

ARCHITECT		DEVELOPER		CONSULTANT		APPROVED BY		PROJECT TITLE		SHEET TITLE	
Raw Process rawprocessdesign.com		CHANGE DEVELOPMENTS		MKN CIVIL CONSULTING 61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKN CIVIL.COM.AU		MKN MV MKN MKN		415 SYDNEY ROAD, BALGOWLAH		DETAILS OF OSD	
A ISSUED FOR DA		MKN MKN 23/06/2025		61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKN CIVIL.COM.AU		CHECKED BY		PROJECT NO.		DRG No.	
REV AMENDMENTS DESCRIPTION		MKN MKN 23/06/2025		POSTCODE: 2176		DESIGNED BY		202429		202429-C610	
		DATE		COORDINATES: AS PER SURVEY PLAN		DRAWN BY		SHEET No.		C610	
						COORDINATES: AS PER SURVEY PLAN		PROJECT NO.		AMDT	
								202429		A	



REV	ISSUED FOR DA	AMENDMENTS DESCRIPTION	MKN	MKN	23/06/2025
A			DRWN	APPD	DATE

ARCHITECT

Raw Process
rawprocessdesign.com

DEVELOPER

CHANGE DEVELOPMENTS

CONSULTANT

MKN CIVIL CONSULTING
ABOVE AND BEYOND

61 GREENFIELD ROAD, GREENFIELD PARK
ADMIN@MKN CIVIL.COM.AU

POSTCODE: 2176

APPROVED BY MKN
CHECKED BY MV
DESIGNED BY MKN
DRAWN BY MKN
COORDINATES: AS PER SURVEY PLAN

PROJECT TITLE

415 SYDNEY ROAD, BALGOWLAH

PROJECT NO. 202429

SHEET TITLE

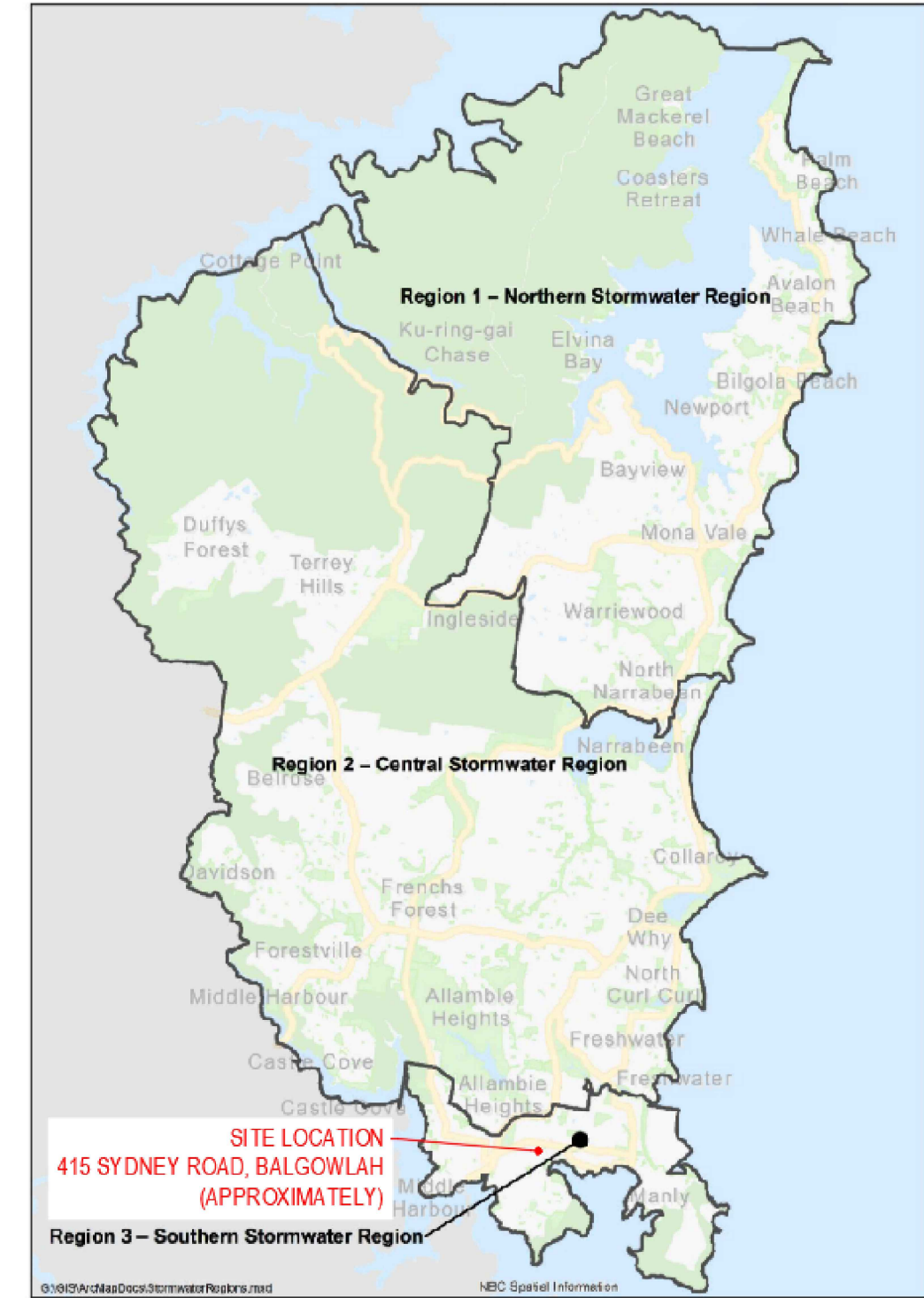
MISCELLANEOUS DETAILS

DRG No. 202429-C620
SHEET No. C620
AMDT A

LEGEND

SYMBOL/LINES	DESCRIPTION
	CATCHMENT FALL TO FRONT - PRE_DEVELOPMENT SCENARIO
	CATCHMENT FALL TO REAR - PRE_DEVELOPMENT SCENARIO
	ARROW INDICATING OVERLAND FLOW DIRECTION
	CATCHMENT NODE
	CATCHMENT INFORMATION TAG
	EXISTING CONTOUR (0.5m INTERVAL)
	INDICATIVE STORMWATER CONCENTRATED FLOW DIRECTION (OVERLAND FLOW PATH)

Map 2 – Northern Beaches Stormwater Regions



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CATCHMENT SCHEDULE - PRE_DEVELOPMENT

NODE	CATCHMENT ID	TOTAL AREA (ha)	IMPER. AREA (ha)	OVERALL IMPER. PERCENTAGE (%)	CHECKED	NOTES
X1	EX1	0.0101	0.0101	100%	✓	ROOF AREA OF THE EXISTING BUILDING, BASED ON SURVEY PLAN
X2	EX2	0.0040	0.0040	100%	✓	CONCRETE DRIVEWAY AREA, BASED ON SURVEY PLAN
X3	EX3	0.0117	0.0041	35%	✓	FRONT COURTYARD, IMPERVIOUS AREA IS MEASURED FROM SURVEY PLAN
X4	EX4	0.0092	0.0060	65%	✓	CONCRETE DRIVEWAY AREA, AND CONCRETE FOOTPATH AREA ARE MEASURED FROM SURVEY PLAN
X5	EX5	0.0059	0.0059	100%	✓	ROOF AREA OF EXISTING GARAGE
X6	EX6	0.0072	0.0002	2%	✓	BACKYARD AREA WITH GARDEN BEDS, VEGETIVE COVER, AND TREES
X7	EX7	0.0131	0.0048	37%	✓	CONCRETE DRIVEWAY AREA, BACKYARD AREA WITH VEGETIVE COVERT, AND TREES

PEAK FLOW SUMMARY - PRE_DEVELOPMENT

TOTAL IMPERVIOUS AREA OF THE SITE (ha)	0.0351
TOTAL AREA OF THE SITE (ha)	0.0612
PERCENTAGE OF IMPERVIOUS AREA	57%

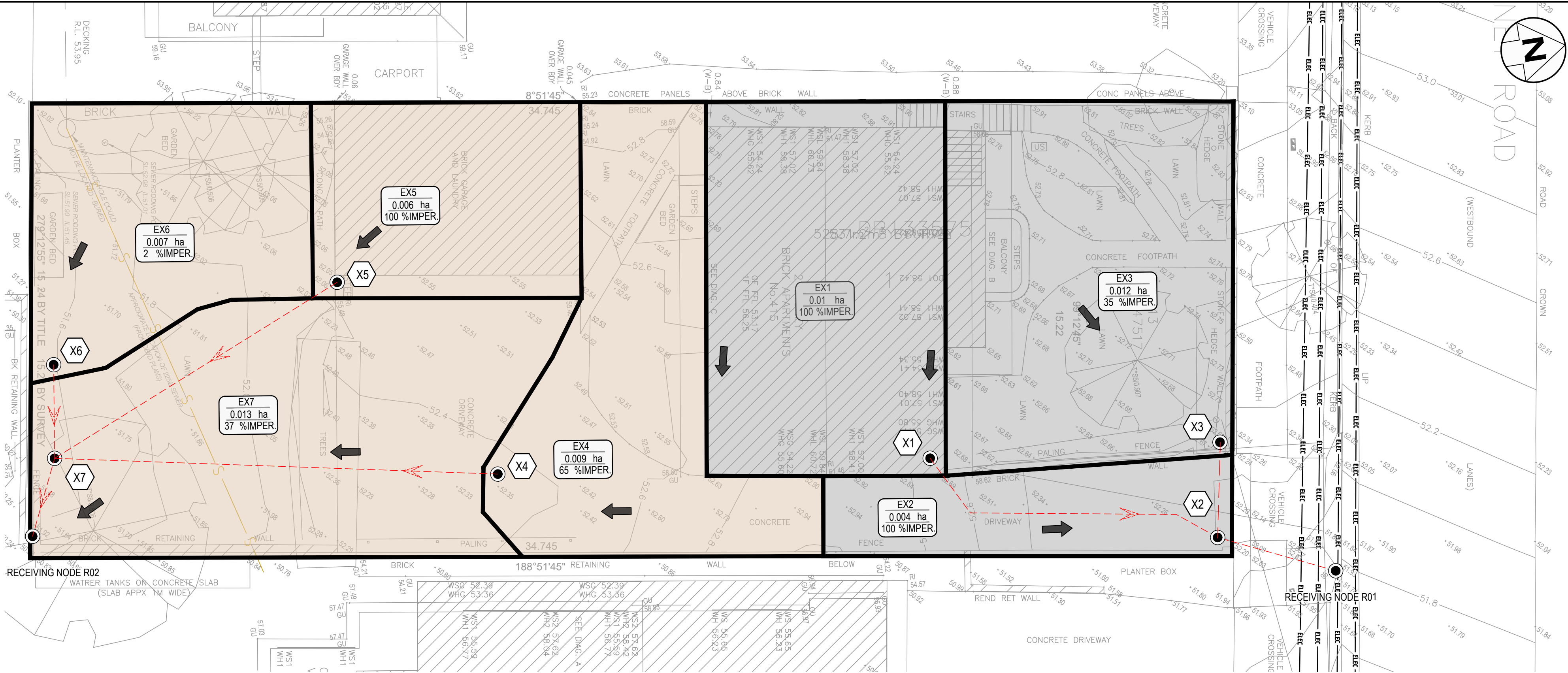
NODE	PEAK FLOW (l/s)				
	98.17%	63.21%	20% AEP	5% AEP	1% AEP
RECEIVING NODE R01	3	5	8	12	16
RECEIVING NODE R02	2	4	10	16	21

DRAINS MODEL SCHEMATIC - PRE_DEVELOPMENT

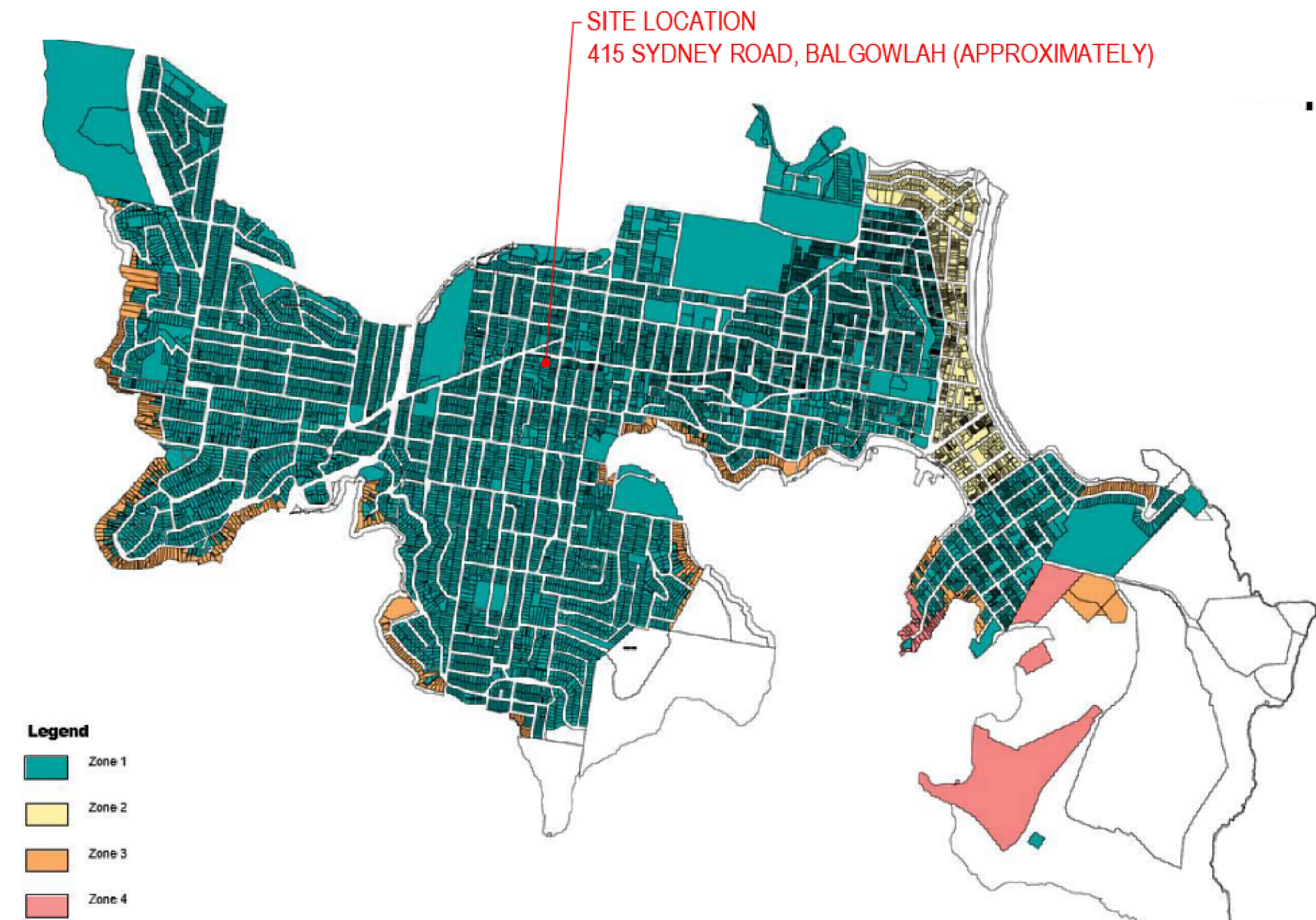


CATCHMENT PLAN - PRE_DEVELOPMENT

SCALE: 1:100



Map 3 – Region 3 Zone



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REV	ISSUED FOR DA	AMENDMENTS DESCRIPTION	MKN	MKN	23/06/2025
A					

ARCHITECT

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DEVELOPER

CHANGE DEVELOPMENTS

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APPROVED BY	MKN
CHECKED BY	MV
DESIGNED BY	MKN
DRAWN BY	MKN
COORDINATES: AS PER SURVEY PLAN	

PROJECT TITLE	415 SYDNEY ROAD, BALGOWLAH
PROJECT NO.	202429

SHEET TITLE	STORMWATER PRE_DEVELOPMENT CATCHMENT PLAN
DRG No.	202429-C765
SHEET No.	C765
AMDT	A

LEGEND

SYMBOL/LINES	DESCRIPTION
	CATCHMENT FALL TO FRONT - POST_DEVELOPMENT SCENARIO
	CATCHMENT FALL TO REAR - POST_DEVELOPMENT SCENARIO
	ARROW INDICATING OVERLAND FLOW DIRECTION
	CATCHMENT NODE
	CATCHMENT INFORMATION TAG
	EXISTING CONTOUR (0.5m INTERVAL)
	INDICATIVE STORMWATER CONCENTRATED FLOW DIRECTION (OVERLAND FLOW PATH)
	SYMBOL REPRESENTING OSD TANK

PERMISSIBLE DISCHARGE (PSD)

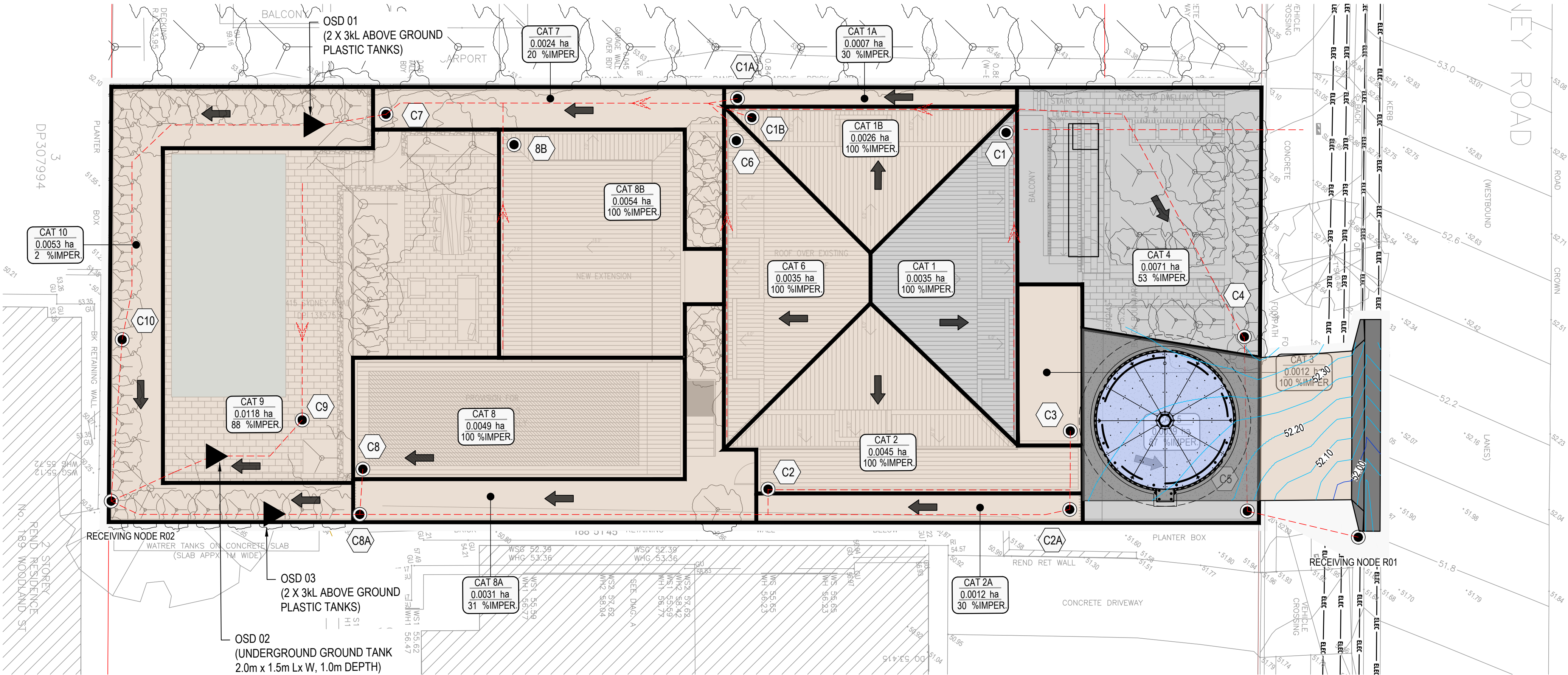
NODE	PSD - l/s
RECEIVING NODE R01	7
RECEIVING NODE R02	9

FLOWES LEAVING THE SITE WITH OSDs

NODE	PEAK FLOW (l/s)				
	98.17%	63.21%	20% AEP	5% AEP	1% AEP
RECEIVING NODE R01	1	2	4	5	7
RECEIVING NODE R02	2	3	5	6	8

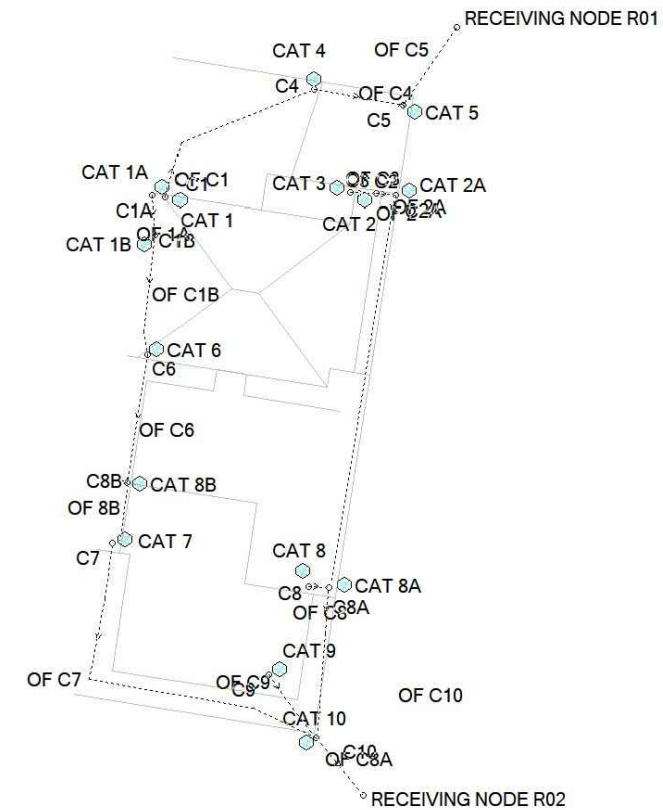
CATCHMENT SUMMARY TABLE

CATCHMENT ID	NODE	SUB CATCHMENT AREA (ha)		TOTAL CATCHMENT AREA (ha)	IMPER. PERCENTAGE (%)	CHECKED	NOTES
		PERV. AREA	IMPERV. AREA				
CAT_1	C1	0.0000	0.0035	0.0035	100%	✓	ROOF AREA
CAT_1A	C1A	0.0005	0.0002	0.0007	30%	✓	STONE STEPPER PATHWAY
CAT_1B	C1B	0.0000	0.0026	0.0026	100%	✓	ROOF AREA
CAT_2	C2	0.0000	0.0045	0.0045	100%	✓	ROOF AREA
CAT_2A	C2A	0.0008	0.0003	0.0012	30%	✓	STONE STEPPER PATHWAY
CAT_3	C3	0.0000	0.0013	0.0013	100%	✓	BALCONY AREA
CAT_4	C4	0.0000	0.0038	0.0071	53%	✓	FRONT YARD
CAT_5	C5	0.0005	0.0034	0.0039	87%	✓	DRIVEWAY AREA
CAT_6	C6	0.0000	0.0035	0.0035	100%	✓	ROOF AREA
CAT_7	C7	0.0000	0.0005	0.0024	20%	✓	STONE STEPPER PATHWAY & LANDSCAPE AREA
CAT_8	C8	0.0000	0.0049	0.0049	100%	✓	ROOF AREA
CAT_8A	C8A	0.0024	0.0007	0.0031	23%	✓	STONE STEPPER PATHWAY & LANDSCAPE AREA
CAT_8B	C8B	0.0000	0.0054	0.0054	100%	✓	ROOF AREA
CAT_9	C9	0.0014	0.0104	0.0118	88%	✓	LOUNGE AND POOL AREA
CAT_10	A-10	0.0052	0.0001	0.0053	2%	✓	LANDSCAPE AREA
TOTAL IMPERVIOUS AREA OF THE SITE (ha)		0.0452					
TOTAL AREA OF THE SITE (ha)		0.0612					
PERCENTAGE OF IMPERVIOUS AREA		74%					

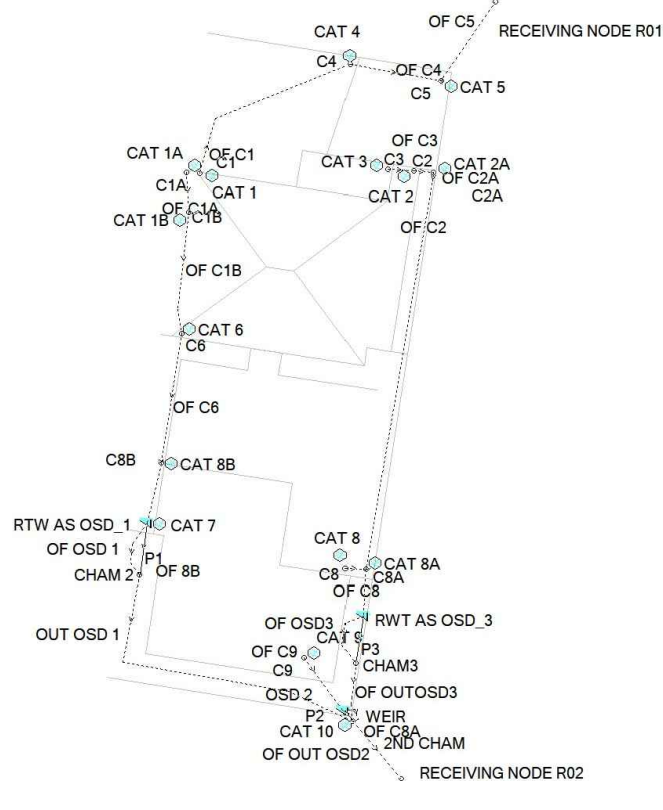


CATCHMENT PLAN - PRE_DEVELOPMENT
SCALE: 1:100

DRAINS MODEL SCHEMATIC -
POST_DEV (WITHOUT OSDs)



DRAINS MODEL SCHEMATIC -
POST_DEV (WITH OSDs)



COUNCIL'S WATER MANAGEMENT FOR DEVELOPMENT POLICY - COMPLIANCE DEMONSTRATION

- 1) SITE INFORMATION
STREET ADDRESS: 415 SYDNEY ROAD, BALGOWLAH, NSW 2029
LEGAL PROPERTY DESCRIPTION LOT 1, DP 133575
- 2) DESIGN STANDARDS AND REFERENCES
a) NORTHERN BEACHES COUNCIL, WATER MANAGEMENT FOR DEVELOPMENT POLICY (HEREAFTER CALLED "THE POLICY")
b) CHECKLIST 16, ON-SITE DETENTION CHECKLIST, THE POLICY
- 3) DETERMINE THE ON-SITE STORMWATER DISPOSAL REQUIREMENT
REFER TO MAP 2 OF THE POLICY, THE SITE IS LOCATED IN REGION 3 - SOUTHERN STORMWATER REGION
REFER TO SECTION 9.3.3 ONSITE STORMWATER DISPOSAL FOR REGION 3 - SOUTHERN CATCHMENTS
METHOD OF STORMWATER CONTROL DEPENDS ON THE LOCATION OF THE SITE
WITH REFERENCE TO MAP 3 OF THE POLICY, THE SITE IS LOCATED IN ZONE 1 OF REGION 3
PART 4.3.2 WAS CHECKED TO DETERMINE IF THE OSD IS REQUIRED.
THIS PROJECT IS ALTERATIONS AND ADDITIONS. **FROM CHECKLIST 16, PART 4.3.2.2, IT IS REQUIRED TO HAVE OSD**
SECTION 9.3.3.2 OF THE POLICY IS TO BE FOLLOWED FOR THE DESIGN
- 4) DESIGN OBJECTIVE
PEAK FLOW IMMEDIATELY DOWNSTREAM OF THE SITE IN DEVELOPMENT IS NOT INCREASED DUE TO DEVELOPMENT.
THIS OBJECTIVE IS ACHIEVED BY
* PROVIDING ADEQUATE STORAGE VOLUME
* ALL STORM EVENTS UP TO AND INCLUDING THE 20% AEP POST_DEVELOPMENT SHALL BE LIMITED TO THE PSD
CRITICAL STOMR EVENTS TO BE CONSIDERED ARE 20% AEP AND 1% AEP
- 5) PERMISSIBLE SITE DISCHARGE
THE PEAK FLOW IN 20% AEP STORM EVENT FOR PRE-DEVELOPMENT SITE BASED ON THE FOLLOWING IMPERVIOUS PERCENTAGE
* 35% (THIS VALUE HAS BEEN ADOPTED BECAUSE 35% x 612m² = 214.2 m² LESS THAN 250 m²)
(TOTAL EXISTING SITE IMPERVIOUS AREA IS 350 m² EXCEEDING THE VALUE ABOVE)
VELOCITY OF DISCHARGE IS RESTRICTED TO 2.0m/s
PSD HAS BEEN CALCULATED USING THE FOLLOWING METHOD WHICH IS SPECIFIED IN THE POLICY
* Drains Program Version 16Jan2025
- 6) SITE STORAGE REQUIREMENT
VOLUMES OF DETENTION HAS BEEN CALCULATED USING DRAINS PROGRAM THAT ADEQUATE TO REDUCE THE RUNOFF FROM
THE PEAK 1% AEP STORM EVENT FOR THE DEVELOPED SITE BACK TO THE PSD CALCULATED IN STEP 5

ARCHITECT		DEVELOPER		CONSULTANT		APPROVED BY		PROJECT TITLE		SHEET TITLE	
Raw Process rawprocessdesign.com		CHANGE DEVELOPMENTS		MKN CIVIL CONSULTING 61 GREENFIELD ROAD, GREENFIELD PARK ADMIN@MKN CIVIL.COM.AU		MKN MV MKN MKN		415 SYDNEY ROAD, BALGOWLAH		STORMWATER POST_DEVELOPMENT CATCHMENT PLAN	
ISSUED FOR DA		MKN MKN 23/06/2025		POSTCODE: 2176		COORDINATES: AS PER SURVEY PLAN		PROJECT NO. 202429		DRG No. 202429-C775	
AMENDMENTS DESCRIPTION		MKN APPD DATE								SHEET No. C775	
										AMDT A	

