

SURVEY & EXISTING SERVICES

- HORIZONTAL DATUM IS MGA2020 - ZONE 55
- LEVEL DATUM IS AHD.
- THE ORIGIN FOR THE LEVELS IS - PM AND LOCATED AT E:370455.637 N:8114259.635
- REFER RPS SURVEYORS FOR THE SURVEY STATION SETOUT DETAILS
- THE EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE DERIVED FROM SURFACE SURVEY AND COUNCIL RECORDS AND MAY NOT REPRESENT THE EXISTING SERVICES PRESENT BELOW THE SURFACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING SERVICES PRIOR TO ANY EXCAVATION, PARTICULARLY ON FOOTPATHS.
- ALL DAMAGE TO EXISTING SERVICES SHALL BE MADE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT AUTHORITY, ALL AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL NOTIFY THE RELEVANT AUTHORITY IMMEDIATELY WHEN ANY DAMAGE OCCURS.
- THE LINE AND LEVEL OF EXISTING UNDERGROUND SERVICES SHALL BE DETERMINED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CLASHES WITH DESIGN STRUCTURES AND SERVICES PRIOR TO COMMENCING CONSTRUCTION.
- EXISTING OUTLET LEVELS OR CONNECTION LEVELS FOR ALL DESIGN STORMWATER AND SEWER SHALL BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATIONS PRIOR TO COMMENCING CONSTRUCTION.
- EXISTING SERVICES ON THE DRAWINGS ARE PLOTTED FROM THE BEST INFORMATION AVAILABLE. NO RESPONSIBILITY IS TAKEN BY THE PRINCIPAL OR SUPERINTENDENT FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS TO ESTABLISH ON SITE THE EXACT POSITION OF ALL UNDERGROUND SERVICES IN THE PROPOSED WORKS AREA. METHODS FOR ACHIEVING THIS WILL INCLUDE BUT NOT BE LIMITED TO:-
 - CAREFUL EXAMINATION OF THE CONTRACT DRAWINGS.
 - CONSULTATION WITH THE RELEVANT SERVICE AUTHORITIES.
 - COMPREHENSIVELY SCANNING THE AFFECTED AREAS WITH A CABLE DETECTOR AND MARKING ON THE GROUND THE POSITION OF ALL SERVICES.
 - HAND EXCAVATING TO EXPOSE ALL SUCH SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED WORKS UNDER THE DIRECTION OF THE RELEVANT SERVICE AUTHORITY.
- THE CONTRACTOR IS TO BRING TO THE SUPERINTENDENT'S ATTENTION ANY DISCREPANCIES BETWEEN THE EXISTING SERVICES THUS IDENTIFIED AND DOCUMENTED SERVICES WHICH MIGHT AFFECT THE PROPOSED WORKS. APPROPRIATE MEASURES TO RESOLVE ANY CONFLICT WILL BE DOCUMENTED BY THE SUPERINTENDENT.
- THIS DESIGN HAS BEEN BASED ON SERVICE AUTHORITY "AS CONSTRUCTED" INFORMATION AND LIMITED POTHOLING OR NO POTHOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE POTHOLING TO VERIFY THE DESIGN. NOTIFY THE DESIGN CONSULTANTS OF ANY SERVICE CLASHES.
- THE CONTRACTOR SHALL EXCAVATE BY HAND TO EXPOSE THE WATER MAINS AND/OR SEWERS AND SHALL CONSTRUCT A CONCRETE SPANNING SLAB TO COUNCIL REQUIREMENTS OVER THE WATER MAINS OR SEWERS SO THAT NO LOADS ARE IMPOSED ONTO THOSE MAINS.

EARTHWORKS NOTES

- ALL FOOTPATHS SHALL BE GRASSED (DRILL SEEDED WITH APPROVED GRASS SPECIES) IN ACCORDANCE WITH LANDSCAPE SPECIFICATIONS, FERTILIZED AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.
- CLEAR TREES, LARGE SHRUBS ETC FROM THE AREA OF LOTS AND ROAD RESERVES. ONLY FOR CONSTRUCTION OF ROADS AND SERVICES, AND EITHER REMOVE FROM SITE OR ALTERNATIVELY CHIP MULCH AND STOCKPILE FOR RE-USE IN LANDSCAPING. CONTRACTOR SHALL OBTAIN COUNCIL INSPECTION AND APPROVAL PRIOR TO COMMENCING ANY TREE AND VEGETATION CLEARING. ALL VEGETATION/CONSERVATION ZONES SHALL BE RETAINED AND SHALL BE ADEQUATELY FENCED/SEGREGATED PRIOR TO COMMENCING CONSTRUCTION.
- SLASH THE EARTHWORKS AREA. CONTINUE SLASHING AREAS AS NECESSARY AND AS INSTRUCTED BY THE SUPERINTENDENT DURING THE CONTRACT AND MAINTENANCE PERIOD TO KEEP GRASS TO A MAXIMUM 50mm TO 100mm HIGH.
- ALL GULLIES AND DEPRESSIONS REQUIRING FILLING SHALL BE CLEARED, GRUBBED AND CLEANED OUT OF SILT, BOULDERS, DEBRIS ETC TO PROVIDE A CLEAN, FIRM BASE PRIOR TO PLACING ANY FILL OR FILTER MATERIALS. COMPACT ALL NATURAL SUBGRADES WITH 6 TO 8 PASSES OF A 10 TONNE VIBRATING ROLLER PRIOR TO PLACING ANY FILL MATERIALS. PLACE SUBSOIL DRAIN/SIMATS TO ENGINEERS APPROVALS AT THE BASE OF ALL SUCH FILLS AND OUTLET TO THE STORMWATER DRAINAGE SYSTEM. NOTIFY THE SUPERINTENDENT FOR AN INSPECTION PRIOR TO PLACING ANY FILL MATERIALS.
- WHERE FILL IS PLACED ON SLOPING EXISTING SURFACE, THE EXISTING SURFACE SHALL BE BENCHED AND THE BENCH COMPACTED TO 98% SRDD PRIOR TO PLACING THE FILL MATERIAL.
- REMOVE SURFACE ROCKS AND REUSE IN SCOUR PROTECTION. REMOVE EXCESS FROM SITE OR STOCKPILE AS DIRECTED. ALL COSTS TO BE INCLUDED IN CONTRACT LUMP SUM.
- THE CONTRACTOR SHALL ENSURE NO PONDING AREAS RESULT FROM THE EARTHWORKS OPERATION. ANY SUCH AREAS WHICH DEVELOP SHALL BE RECTIFIED AS DIRECTED BY THE SUPERINTENDENT. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT OF THE DEVELOPMENT OR EXISTENCE OF ANY SUCH PONDING AREAS.
- BATTERS IN EXCESS OF 1.5m HIGH SHALL BE ASSESSED AND REPORTED FOR STABILITY (DURING CONSTRUCTION) BY A GEOTECHNICAL ENGINEER. COPIES OF REPORTS SHALL BE FORWARDED TO THE SUPERINTENDENT AND TO COUNCIL.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY BERMS AT THE TOP OF ALL BATTERS TO DIRECT AND CONTROL RUNOFF TO A SINGLE LOCATION. THE DISCHARGE OVER THE BATTER SHALL BE THROUGH A STABILISED CHUTE ADDRESSED IN THE CONTRACTORS PLAN, e.g. REINFORCED TURF, GEOTEXTILE, CONCRETE OR SIMILAR.
- ALL BATTERS FRONTING THE ROAD RESERVES (AND NOT IN PRIVATE PROPERTY) SHALL BE FINISHED AT 1 ON 2 AND LANDSCAPED WITH LOW MAINTENANCE PLANTS IN ACCORDANCE WITH FNQROC DEVELOPMENT MANUAL.
- THE CONTRACTOR SHALL ENSURE THE PROPOSED CONSTRUCTION EQUIPMENT TO BE USED ON THE SITE WILL NOT DAMAGE EXISTING UNDERGROUND INFRASTRUCTURE, IN PARTICULAR HEAVY EQUIPMENT TRAVERSING OVER A.C. MAINS WITH NOMINAL COVERS.

IMPORTED NON-PLASTIC FILL

- AS METRIC SIEVE % PASSING BY WEIGHT

75mm	100
2.36mm	25 - 70
75um	0 - 30
- MINIATURE ABRASION LOSS PASSING 2.36mm 0 - 15
- LINEAR SHRINKAGE PASSING 4.25um 0 - 8
- MATERIAL RETAINED ON 2.36mm SIEVE SHALL CONSIST OF SOUND STONE
- SOAKED CBR 15 AT 98% SRDD COMPACTION

PAVEMENT

- 150mm BASE COURSE TYPE 2.2 (CBR 60) COMPACTED TO 100% SRDD.
- 150mm SUB BASE COURSE TYPE 2.3 (CBR 45) COMPACTED TO 100% SRDD.
- SUB GRADE (CBR 5 MINIMUM) TRIMMED AND COMPACTED TO 98% SRDD.
- SUB GRADE CBR (SOAKED AT 98% SRDD) TO BE CHECKED AND SUBMITTED TO THE ENGINEER FOR CONFIRMATION OF PAVEMENT DESIGN (REFER PAVEMENT SUBGRADE NOTES).

GENERAL PAVEMENT NOTES

- THE CONTRACTOR SHALL ADVISE THE ENGINEER, IN WRITING, OF THE SOURCE OF GRAVEL SUPPLY, PROOF OF GRADING, CBR AND TYPE, AT LEAST ONE WEEK PRIOR TO PAVEMENT GRAVEL BEING DELIVERED TO THE SITE.
- NO PAVEMENT GRAVEL SHALL BE DELIVERED TO THE SITE UNTIL AFTER THE CONTRACTOR HAS RECEIVED WRITTEN CONFIRMATION OF THE PAVEMENT DESIGN FROM THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT THE PAVEMENT COURSES ARE SET DOWN SUFFICIENTLY TO ALLOW FOR THE THICKNESS OF ASPHALT (AND/OR BITUMEN) SEAL COAT.

ASPHALT - INTERNAL SITE WORKS

- THE PAVEMENT SHALL BE BROOMED CLEAN AND SHALL BE DRY PRIOR TO APPLYING PRIME COAT.
- PRIME COAT SHALL BE APPLIED 48 HOURS PRIOR TO ASPHALT SEALING.
- APPLY 40mm OF APPROVED ASPHALT.
- THE PRIME COAT AND HOT MIX DESIGN SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH TMR SPECIFICATION REQUIREMENTS, WITH POLYMER ADDITIVES.

ENVIRONMENTAL PROTECTION AND EROSION SEDIMENT CONTROL

- THE CONTRACTOR IS RESPONSIBLE WITHIN THE LIMITS IMPOSED BY THE WORKS, TO PROTECT AND PRESERVE THE NATURAL ENVIRONMENT AND AVOID POLLUTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCORPORATION OF APPROPRIATE CONTROL MEASURES CONFORMING WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.
- ALL BARE EARTH AREAS, FOOTPATHS, DRAINS AND CUT BATTERS UP TO 1 on 4 SLOPES SHALL BE DRILLED SEEDED WITH APPROVED GRASS SPECIES, FERTILISED AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.
- ALL CUT AND FILL BATTERS STEEPER THAN 1 on 4 SHALL BE HYDROMULCHED WITH APPROVED SUITABLE GRASS SPECIES AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.

EROSION SEDIMENT CONTROL STRATEGY AND ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND PRESERVE THE NATURAL ENVIRONMENT AND SHALL AVOID ENVIRONMENTAL POLLUTION IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION ACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCORPORATION OF APPROPRIATE CONTROL AND MANAGEMENT MEASURES CONFORMING TO THE REQUIREMENTS OF THE ACT AND THE RELEVANT AUTHORITIES.
- THE EROSION AND SEDIMENT CONTROL STRATEGY, SHOWN OR NOTED ON THESE DRAWINGS, HAS BEEN PROVIDED AS A GUIDE.
- THE CONTRACTOR SHALL PROVIDE AN EROSION SEDIMENT CONTROL PLAN (ESCP) FOR EACH PHASE OF HIS PROPOSED CONSTRUCTION PROGRAM AND WORK METHODS, AND IS WHOLLY RESPONSIBLE FOR THE IMPLEMENTATION, CONTROL AND MANAGEMENT OF SUCH PLAN.
- THE CONTRACTOR SHALL INSTALL ALL DEVICES/MEASURES NECESSARY TO COMPLY WITH THE PROVISIONS OF THE ESCP FNQROC DEVELOPMENT MANUAL, THE ENVIRONMENTAL PROTECTION ACT, AND COUNCIL REQUIREMENTS.
- THE ESCP SHALL INCLUDE SUCH MEASURES AS SHOWN ON THE STRATEGIC PLAN.
- OSE GROUP DO NOT ACCEPT RESPONSIBILITY FOR THE CONTRACTOR'S DESIGN & IMPLEMENTATION OF HIS ESCP NOR THE CONSEQUENCES OF HIS FAILURE TO APPLY ALL REASONABLE CONTROLS.
- ALL STORMWATER INLETS, TRENCHES, ETC. SHALL BE CONSTRUCTED IN SUCH A WAY AS TO PREVENT THE ENTRY OF SEDIMENT INTO THE STRUCTURE. IF IT IS NECESSARY TO DISCHARGE INTO SUCH INLETS THEN SUITABLE SILT TRAPS SHALL BE CONSTRUCTED UPSTREAM OF THE INLETS SUCH THAT OVERFLOW FROM TRAPS ENTERS THE DRAINS AFTER THE SEDIMENT HAS DROPPED OUT.
- ALL SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE END OF THE MAINTENANCE PERIOD, UNLESS NOTED OTHERWISE. ALL SEDIMENT CONTROL DEVICES ARE TO BE FULLY MAINTAINED IN AN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND THE MAINTENANCE PERIOD. THE CONTRACTOR SHALL ENSURE THAT ALL SEDIMENT CONTROL DEVICES ARE KEPT FREE OF SEDIMENT BUILD-UP.
- SEDIMENT FENCES SHALL BE INSTALLED SUCH THAT THE BASE OF THE FENCE IS PLACED 150MM MINIMUM BELOW GROUND LEVEL, AND ANCHORED SECURELY IN SUCH POSITION.
- ALL VEHICLE EXIT POINTS SHALL HAVE SHAKER GRIDS, WASH BAYS OR SIMILAR TO PREVENT VEHICLES FROM TRACKING SOIL AND MUD OFF SITE.
- ALL SOIL STOCKPILES SHALL BE PROTECTED AGAINST WIND EROSION BY COVERING AND AGAINST STORMWATER RUNOFF BY SILT FENCES AT THE DOWNHILL SLOPES. STOCKPILE LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND EROSION/CONTROL MEASURES IMPLEMENTED & MAINTAINED FOR THE LIFE OF THE STOCKPILE.
- THE CONTRACTOR SHALL INSTALL TURF STRIPS BEHIND ALL KERB & CHANNEL, ADJACENT CONCRETE INVERTS AND ALLOTMENT DRAINS ETC WHERE DIRTY WATER SHEET FLOWS INTO DRAINAGE COLLECTION SYSTEMS.
- DIVERT CLEAN WATER AROUND AREAS OF CONSTRUCTION.
- DRILL SEED ALL ROAD SHOULDERS, FOOTPATHS, DRAINS AND CUT BATTERS UP TO 1 on 4 SLOPE SHALL BE DRILL SEEDED WITH APPROVED GRASS SPECIES, FERTILIZED AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD
- HYDROMULCH ALL CUT AND FILL BATTERS STEEPER THAN 1 on 4, WITH APPROVED SUITABLE GRASS SPECIES AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY BERMS AT THE TOP OF ALL BATTERS TO DIRECT AND CONTROL RUNOFF TO A SINGLE LOCATION. THE DISCHARGE OVER THE BATTER SHALL BE THROUGH A STABILIZED CHUTE ADDRESSED IN THE CONTRACTORS PLAN, e.g. REINFORCED TURF, GEOTEXTILE, CONCRETE OR SIMILAR.
- ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH FNQROC.

TRENCHES (DRAINAGE, SEWERAGE, SERVICES)

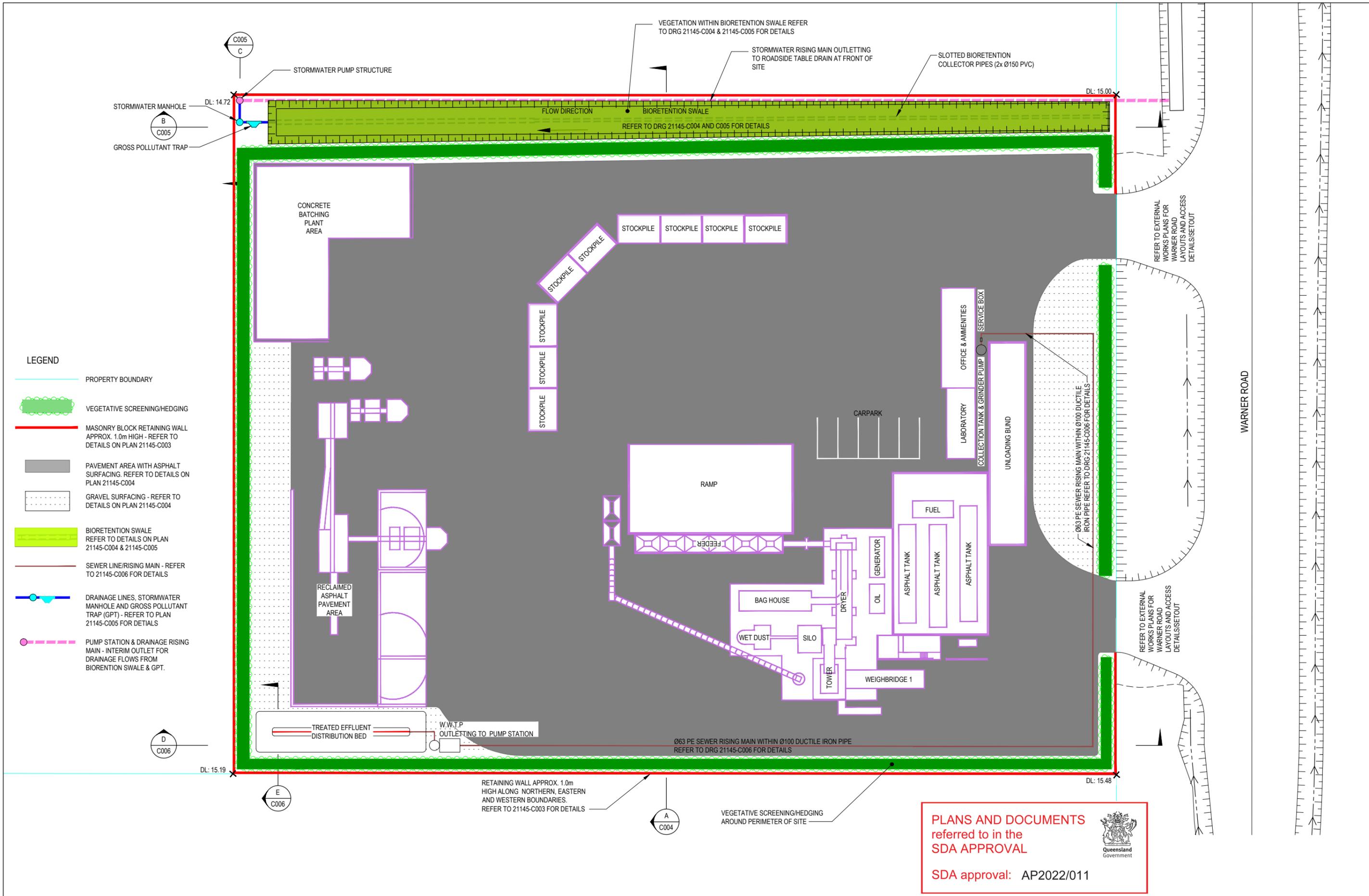
- PLACE AND COMPACT SAND BEDDING, SAND SURROUND AND SAND BACKFILL TO ALL TRENCHES UP TO THE UNDERSIDE OF THE PAVEMENT IN ROADWAYS AND DRIVEWAYS, AND UP TO 150mm BELOW FINISHED SURFACE LEVEL ELSEWHERE.

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL

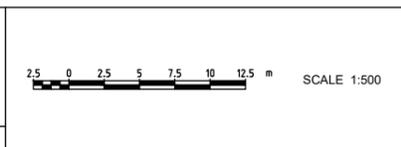


SDA approval: AP2022/011

A 30.05.22 INITIAL ISSUE	DESIGNER Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT 	PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE		TITLE ENGINEERING NOTES	
			DRAWN DJM	DRAWING CHECK PDR	APPROVED	SCALE 1:500 (A3)
REV DATE REVISION NOTES			DESIGNED DJM	DESIGN REVIEW PDR	DATE -	



REV	DATE	REVISION NOTES
C	27.02.23	NEW INTERNAL PLANT LAYOUT
B	6.06.22	STORMWATER SCHEME AMMENDED
A	30.05.22	INITIAL ISSUE



DESIGNER

Address: 35 ABBOTT ST, CAIRNS 4870
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CLIENT

PROJECT: ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE

DRAWN DJM	DRAWING CHECK PDR	APPROVED
DESIGNED DJM	DESIGN REVIEW PDR	DATE -

TITLE: INTERNAL SITE LAYOUT - GENERAL ARRANGEMENT PLAN

SCALE 1:500 (A3)	DRAWING No 21145-C002	REV C
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SITE PREPARATIONS, EARTHWORKS AND FOUNDATION NOTES

- THE DESIGN OF THE STRUCTURE HAS BEEN BASED ON THE FOUNDATION HAVING A MINIMUM BEARING CAPACITY OF 100 KPA.
- BEFORE ANY CONCRETE IS PLACED, THE SAFE BEARING CAPACITY OF THE GROUND SHALL BE VERIFIED WITH A GEOTECHNICAL INVESTIGATION. IF THE BEARING PRESSURE IS ASSESSED AS BEING LESS THAN THE SPECIFIED, THE DESIGN ENGINEER IS TO BE NOTIFIED IN WRITING.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXCAVATIONS IN STABLE CONDITIONS. PROTECT SURROUNDING PROPERTY AND SERVICES FROM ADVERSE EFFECTS OF GROUND WORKS. PROVIDE TEMPORARY WORKS AS REQUIRED. PROVIDE SHORING CERTIFIED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER TO ALL DEEP EXCAVATIONS WHERE REQUIRED.
- DO NOT UNDERMINE EXISTING FOOTINGS.
- KEEP EXCAVATIONS FREE OF WATER. PROVIDE ADEQUATE DRAINAGE TO ENSURE FOUNDATION IS NOT AFFECTED BY MOISTURE. PREVENT FOUNDATION DRYING OUT DUE TO EXPOSURE. PLACE BLINDING, FOOTINGS, PILES AND BACKFILL AS SOON AS PRACTICABLE AFTER EXCAVATION.
- EARTHWORKS SHALL BE IN ACCORDANCE WITH AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS" AND AS FOLLOWS.
- STRIP BUILDING PLATFORM OF ALL TOPSOIL AND VEGETATION TO A MINIMUM DEPTH OF 150MM AND STOCKPILE. REMOVE ALL DELETERIOUS MATTER.
- THE CONTRACTOR SHALL CHECK ALL EXCAVATIONS FOR ORGANIC MATERIAL AND RUBBISH. IF ANY OF THIS MATERIAL IS FOUND, IT SHALL BE REMOVED FROM THE WORKS TO A PLACE DESIGNATED BY THE SUPERINTENDENT.
- UNLESS NOTED OTHERWISE IN SPECIFICATION, FOOTING AND SLABS SHALL BE FOUNDED ON COMPACTED MATERIAL OR CONTROLLED FILL COMPACTED IN ACCORDANCE WITH THE FOLLOWING AS APPROPRIATE FOR MATERIAL TYPE:
 - SANDS WITH 5% FINES OR LESS. FIELD DENSITY INDEX NOT LESS THAN 65% OF LABORATORY REFERENCE DENSITY DETERMINED IN ACCORDANCE WITH AS1289.5.6.1.
 - SILTS AND SANDS WITH MORE THAN 5% FINES, DRY DENSITY RATIO OF NOT LESS THAN 98% OF LABORATORY REFERENCE DENSITY DETERMINED IN ACCORDANCE WITH AS 1289.5.1.1.
 - CLAYS, DRY DENSITY RATIO OF NOT LESS THAN 95% OF LABORATORY REFERENCE DENSITY DETERMINED IN ACCORDANCE WITH AS 1289.5.1.1 OR 90% IN ACCORDANCE WITH AS 1289.5.2.1-1. CLAY FILL SHOULD BE MOIST TO ALLOW COMPACTION AND REDUCE SUBSEQUENT MOVEMENT. REACTIVE CLAY FILL SHOULD BE AVOIDED.
- EXPOSURE OF EXCAVATED FOOTINGS SHALL BE MINIMISED TO PREVENT LOCALISED MOISTURE CHANGES DURING THE CONSTRUCTION PERIOD.
- BACKFILL AND REQUIRED FILL UNDER SLABS AND FOOTINGS SHALL BE CONTROLLED FILL OF APPROVED NON-PLASTIC/ GRANULAR MATERIAL, MIN SOAKED CBR VALUE OF 15%, COMPACTED IN 200MM MAXIMUM THICK LAYERS TO 98% SRDD AND PLACED STRICTLY TO AS 3798.
- MATERIAL WON FROM THIS SITE TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO USE AS FILL.
- TREE REMOVAL: WHERE A TREE IS REMOVED, EXCAVATE 200MM BELOW EXTENT OF ROOT BALL. COMPACT EXPOSED SURFACE TO 98% SRDD TO A DEPTH OF AT LEAST 250MM. PLACE FILL AS UNDER CLAUSE 9.
- A 50MM MINIMUM BLINDING LAYER OF SAND, COMPACTED TO 95% MAX DRY DENSITY SHALL BE APPLIED TO THE BASE OF ALL SLABS-ON-GROUND IMMEDIATELY AFTER VERIFICATION OF THE BEARING CAPACITY BY THE GEOTECHNICAL ENGINEER.
- DAMP PROOF MEMBRANE UNDER FOUNDATIONS TO BE 0.2MM THICK POLYETHYLENE FILM. LAP JOINTS 200MM. SEAL LAP PENETRATIONS AND ANY PUNCTURES WITH DOUBLE-SIDED BUTYL ADHESIVE TAPE.
- WHERE THE FOUNDING MATERIAL IS DEEPER THAN REQUIRED FOR THE FOOTING, THE EXCAVATION IS TO BE BACKFILLED WITH A WEAK MIX CONCRETE (N10) TO THE UNDERSIDE OF THE FOOTING.
- FOLLOWING CONSTRUCTION FOUNDATION MAINTENANCE TO BE IN ACCORDANCE WITH CSIRO BUILDING TECHNOLOGY FILE 18 "FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNER'S GUIDE".

CONCRETE AND REINFORCEMENT NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
- MINIMUM COVER TO ALL REINFORCEMENT AGAINST SURFACES SHALL BE AS FOLLOWING U.N.O.
 - FOOTINGS - 75mm BOTTOM, 65mm SIDES AND TOP
 - COVER SHALL BE 45mm WHERE SURFACE IS EXTERIOR ABOVE GROUND.
 - WITHIN CONCRETE MASONRY BLOCK - 10mm.
- SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. ALL CONCRETE THICKNESSES SHOWN ARE MINIMUM STRUCTURAL REQUIREMENTS; NO REDUCTION IN THICKNESS DUE TO FALLS OR TOPPING IS PERMITTED. REFER ARCHITECTS DRAWINGS FOR CONFIRMATION OF ALL SLAB FALLS AND STEPS.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- CONSTRUCTION JOINTS SHALL HAVE CONCRETE FACES FULLY SCABBLED, CLEANED AND COATED WITH A CEMENT/WATER SLURRY IMMEDIATELY PRIOR TO PLACING ADJACENT CONCRETE; AND ARE TO BE USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED.
- CONTROL JOINTS SHALL BE CONSTRUCTED AS SPECIFIED.
- SAW CUTTING SHALL BE CARRIED OUT WITHIN 6 HOURS OF CONCRETE HARDENING.
- STEEL REINFORCEMENT IS TO COMPLY WITH AS 3600 AND AS/NZ 4671, AND IS REPRESENTED DIAGRAMMATICALLY, FSY = 500MPa.
- U.N.O., SPLICING OF REINFORCEMENT IS TO BE A MINIMUM OF:

N12	450mm
N16	600mm
N20	800mm
- MESH TWO CROSS WIRES PLUS 25mm
- HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE UNDER THEM SHALL HAVE LAPS 1.25 TIMES THESE LENGTHS.
- WELDING OR SITE BENDING OF REINFORCEMENT IS NOT PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
- ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING, BAR CHAIRS AT 800mm MAX. CENTRES BOTH DIRECTIONS. SUPPORTS OVER MEMBRANES ARE TO BE PLACED SO AS TO PREVENT PUNCTURING OF THE MEMBRANE.
- FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610 - FORMWORK FOR CONCRETE AND ALL RELEVANT CONSTRUCTION SAFETY LEGISLATION. U.N.O. FINISHES SHALL BE CLASS 2. MINIMUM FORMWORK STRIPPING TIMES FOR IN-SITU CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 5.4.3, TABLE 5.4.1 OF AS 3610.
- CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES. CONCRETE SPECIFICATION, U.N.O. ON DRAWINGS:

	CLASS & GRADE	SLUMP	MAX. AGG. SIZE
BASE SLAB OF RETAINING WALL	N32	80mm ± 15mm	20mm
FILLING 200 & 300 CM	N20	220mm ± 30mm	10mm

METHOD OF PLACEMENT BY PUMP.

- PROJECT ASSESSMENT IS NOT REQUIRED.
- PROVIDE A 10mm x 10mm CHAMFER TO EXPOSED EDGES ON CONCRETE UNO.
- CURE CONCRETE IN ACCORDANCE WITH AS3600 FOR 7 DAYS AND PRIOR TO THE REMOVAL OF FORMWORK.

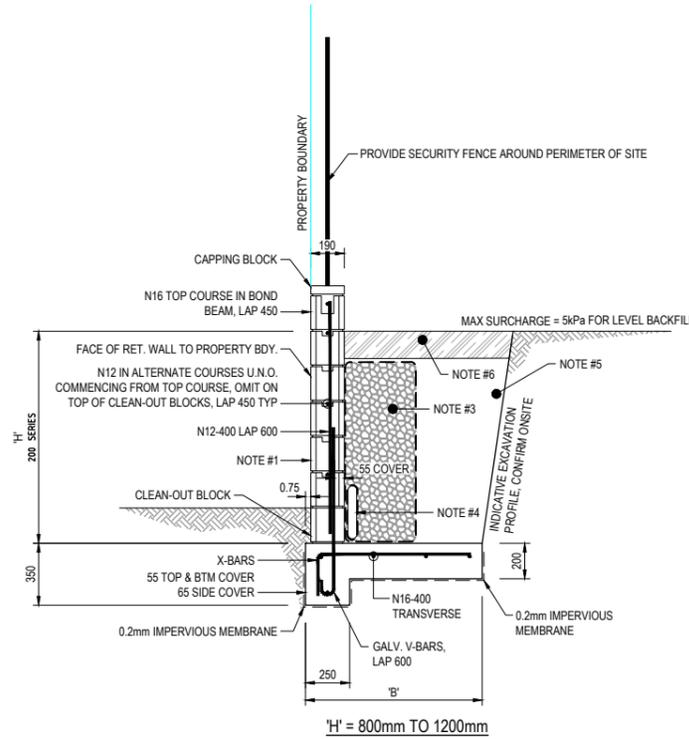
CONCRETE MASONRY NOTE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700.
- REFER TO PUBLICATIONS "M454 CONCRETE MASONRY WALLING- SINGLE-LEAF MASONRY DESIGN MANUAL", "M445 "CONCRETE MASONRY HANDBOOK" AND "M455 DESIGN AND CONSTRUCTION OF CONCRETE MASONRY BUILDINGS" BY CMAA FOR DETAILS ON WORKMANSHIP, FIXING TO GABLE ENDS, BASEMENT WALLS, TANKING, WATERPROOFING ETC. MINIMUM OF 20MM GROUT COVER TO ANY STEEL REINFORCEMENT MEMBER.
- CHASES OR HOLES SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. EMBEDDED ITEMS SHALL NOT BE PLACED INSIDE CORES CONTAINING REINFORCEMENT.
- ALL WALL INTERSECTIONS SHALL BE OF BONDED CONSTRUCTION FOR INTERNAL NON-LOADBEARING UNREINFORCED WALLS (MASONRY MESH, 500 LONG, AT 400 CRS VERT) OR TIED FOR INTERNAL LOAD-BEARING REINFORCED WALLS (L8 TIES AT 400 CRS VERT, BENT DOWN 100mm INTO GROUTED CORES).
- BUILD IN ALL FIXINGS FOR ARCHITECTURAL DETAILS NOT SPECIFICALLY SHOWN ON THE ENGINEER'S DRAWINGS.
- CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH OF CONCRETE BLOCKS TO AS/NZS 4455.1-2008 AND DR04313 SHALL BE FUC = 15MPa.
- REINFORCEMENT AND CONCRETE MASONRY BLOCK CORE FILLING SHALL COMPLY WITH THE NOTES ON "CONCRETE AND REINFORCEMENT". GROUT SHALL HAVE A CEMENT CONTENT OF NOT LESS THAN 300kg/m³.
- PROVIDE CLEANOUT BLOCKS AT THE BASE OF EVERY CORE TO BE FILLED AND HAVE ALL MORTAR DROPPINGS REMOVED PRIOR TO COMMENCEMENT OF CORE FILLING. ALTERNATIVELY, THE BUILDER SHALL OPEN SUCH CORES FOR CLEANING BY AN APPROVED METHOD.
- ALL CORES TO BE CONCRETE FILLED SHALL BE CLEANED OUT BY HOISING PRIOR TO FINAL SETTING OF MORTAR AT ALL LIFTS, OR BY RODDING PRIOR TO CONCRETE FILLING.
- MORTAR USED IN BLOCKWORK THAT IS TO BE GROUTED OR REINFORCED SHALL BE OF CLASSIFICATION M3 TO AS 3700, FOR GENERAL PURPOSE APPLICATION WITH MODERATE EXPOSURE; REFER TO CMAA'S RECOMMENDATIONS IN "CM01 CONCRETE MASONRY - HAND BOOK"

CLASS	CEMENT	LIME	SAND	METHYL CELLULOSE (DYNEX) WATER THICKENER ADDED
M3 (CHARACTERISTIC COMPRESSIVE STRENGTH 20 MPa)	1	1	6	OPTIONAL
	1	0	5	YES
	- CEMENT CONTENT NOT LESS THAN 300kg/m ³			
	- COARSE AGGREGATE SIZE MAX 10mm			

FOR HIGH DURABILITY APPLICATIONS WITH SEVERE EXPOSURE USE MORTAR TYPE M4 AND REFER TO CMAA'S RECOMMENDATIONS IN "CM01 CONCRETE MASONRY - HAND BOOK".

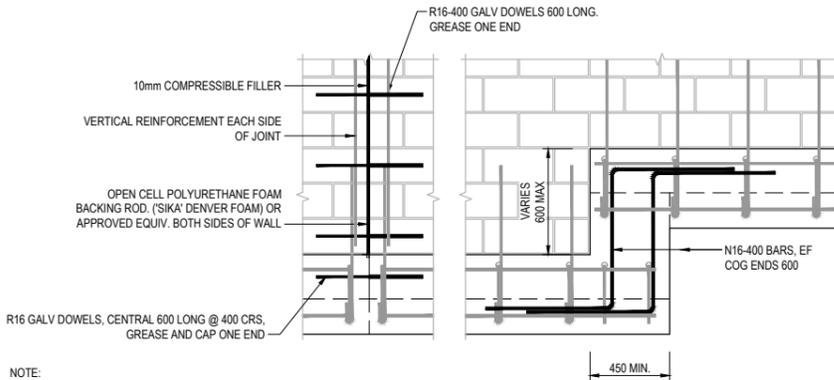
- BOND BEAM REINFORCING SHALL BE CONTINUOUS AT WALL INTERSECTIONS AND BARS ANCHORED AND LAPPED TO DEVELOP FULL TENSILE STRENGTH.
- A CANTILEVER RETAINING WALL SHALL BE PROPPED UNTIL CORE FILL HAS ATTAINED ITS DESIGN STRENGTH. IF BACKFILL IS TO BE PLACED BEHIND THE WALL.
- A PROPPED CANTILEVER RETAINING WALL SHALL BE PROPPED UNTIL THE SUPPORTING SLAB OVER HAS ATTAINED ITS DESIGN STRENGTH.
- MAXIMUM HEIGHT FOR GROUT FILLING OF HOLLOW CORES IS LIMITED TO 2400mm IN ONE POUR AND TO 3000mm IN TWO POURS ABOUT 30 MINUTES APART.



RETAINING WALLS - TYPE 1

SCALE: 1:20

PROVIDE WALL CONTROL JOINTS AT MAX 10m CENTRES. PROVIDE EXPANSION JOINT IN BASE SLAB AT SAME LOCATIONS.



EXPANSION JOINT DETAIL

SCALE: NTS

FOOTING STEP DETAIL

SCALE: NTS

RETAINING WALL SCHEDULE - TYPE 1				
TOTAL HEIGHT 'H' (mm)	BLOCKWORK HEIGHT	REINFORCEMENT		BASE DIMENSIONS 'B'
	200 SERIES	X-BARS	V-BARS	LEVEL
800	800	N12-400	N12-400	800
1000	1000	N12-400	N12-400	900
1200	1200	N12-400	N12-400	1000

NOTES:

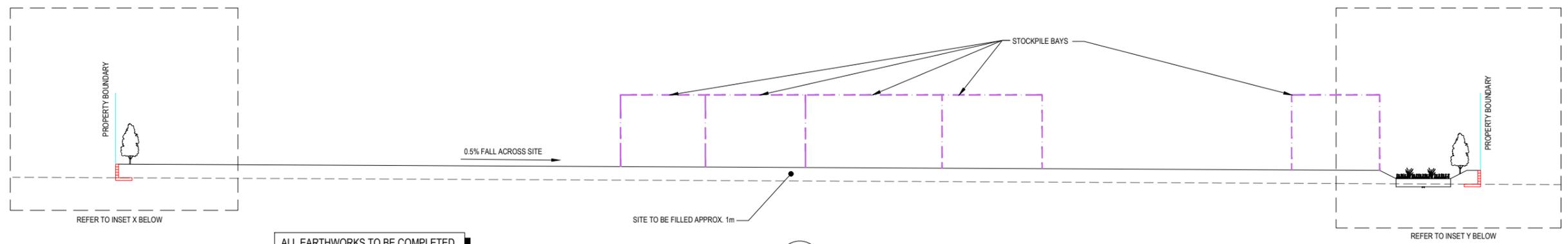
- 'H' MASONRY BLOCKS (SEE DETAIL FOR WIDTH), FILL ALL CORES WITH 20MPa CONCRETE. PAINT SURFACE OF WALL INTERFACING SOIL WITH 2 COATS OF AN APPROVED BITUMASTIC SEALANT IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION OR SIMILAR APPROVED WATER-PROOF MEMBRANE.
- MIN. 10mm CRUSHED ROCK DRAINAGE FILL MATERIAL (300 MIN WIDE), WRAPPED IN GEOTEXTILE FABRIC, LAP 600.
- 300 MEGAFLO (MIN.) SIZE TO BE CONFIRMED BY ENGINEER, ALTERNATIVELY; 2-Ø100 AGLINE PIPES WRAPPED IN GEOTEXTILE SOCK
- IMPORTED CLEAN BACKFILL MATERIAL COMPACTED TO 85% SRDD.
- 150mm THICK COMPACTED CLAY SURFACE SEAL.
- ADDITIONAL LOADS APPLIED FROM FENCING STRUCTURES PLACED ON TOP OF THE RETAINING WALLS HAVE NOT BEEN ALLOWED FOR IN THIS DESIGN. CONSULT ENGINEER IF FENCING STRUCTURES ARE PROPOSED.

PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: AP2022/011

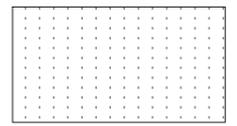


A 30.05.22 INITIAL ISSUE		<p>Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au</p>		PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE	TITLE RETAINING WALL DETAILS					
					DRAWN DJM	DRAWING CHECK PDR	APPROVED	SCALE AS SHOWN	DRAWING No 21145-C003	REV A
REV DATE REVISION NOTES				DESIGNED DJM	DESIGN REVIEW PDR	DATE -				

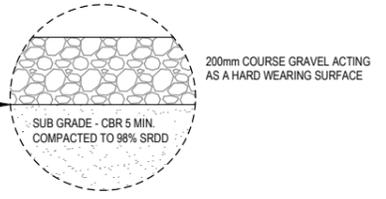


ALL EARTHWORKS TO BE COMPLETED IN ACCORDANCE WITH AS3798-2007

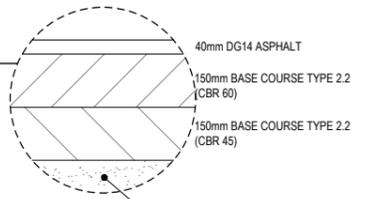
SECTION A
NTS C002



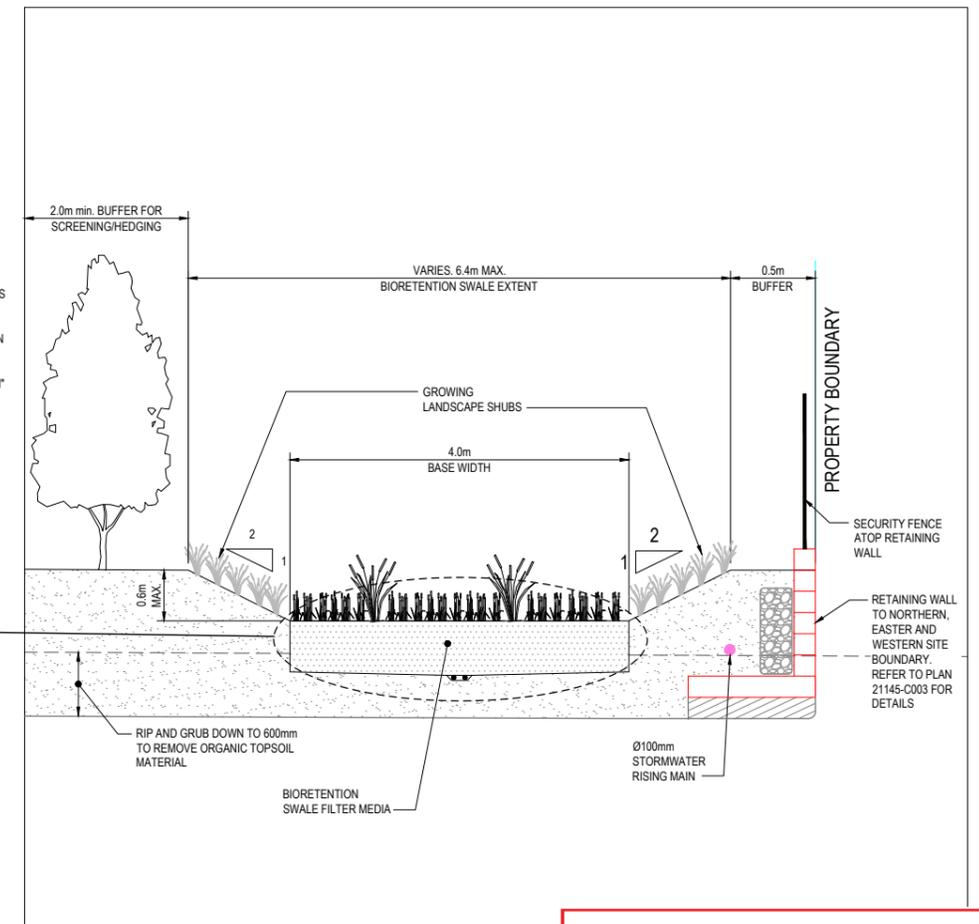
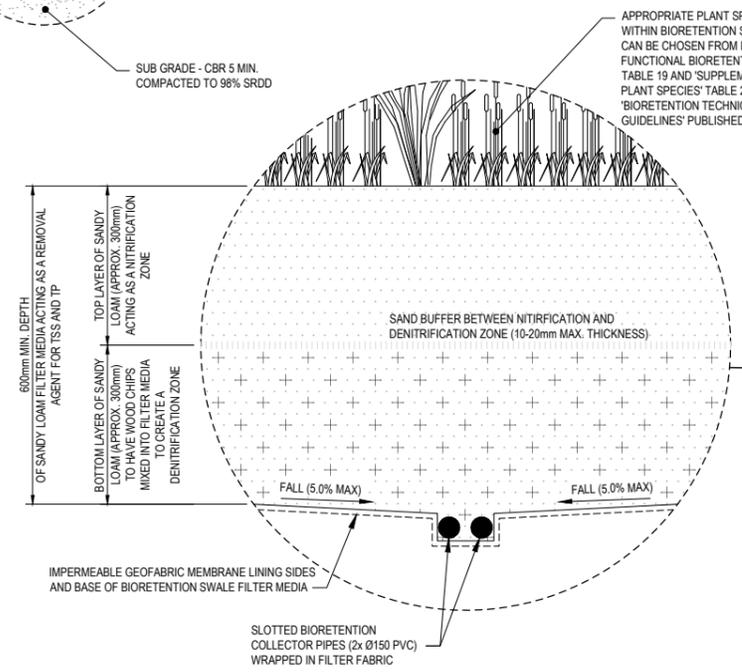
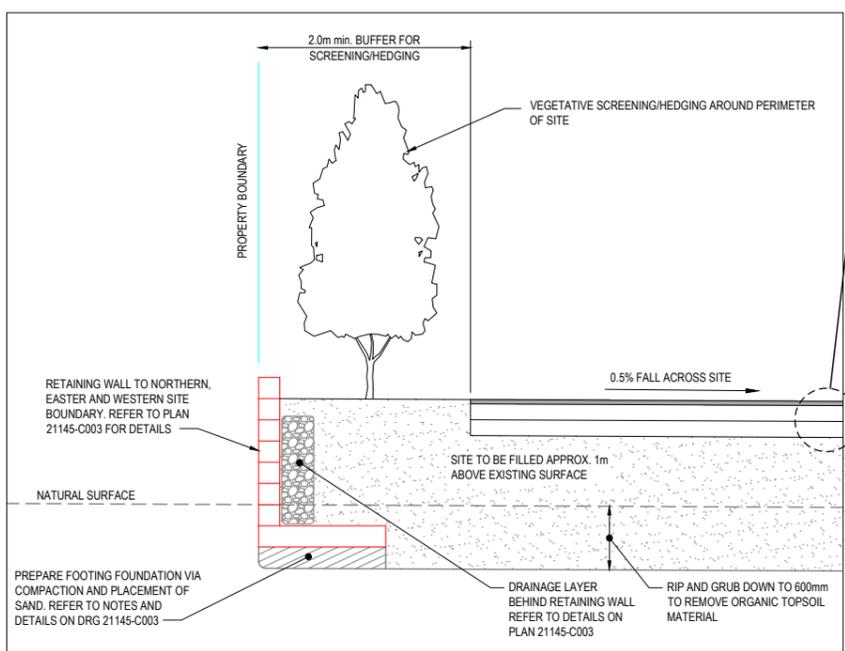
GRAVEL SURFACE FROM 21145-C002 IS AS PER



200mm COURSE GRAVEL ACTING AS A HARD WEARING SURFACE



40mm DG14 ASPHALT
150mm BASE COURSE TYPE 2.2 (CBR 60)
150mm BASE COURSE TYPE 2.2 (CBR 45)
SUB GRADE - CBR 5 MIN. COMPACTED TO 98% SRDD

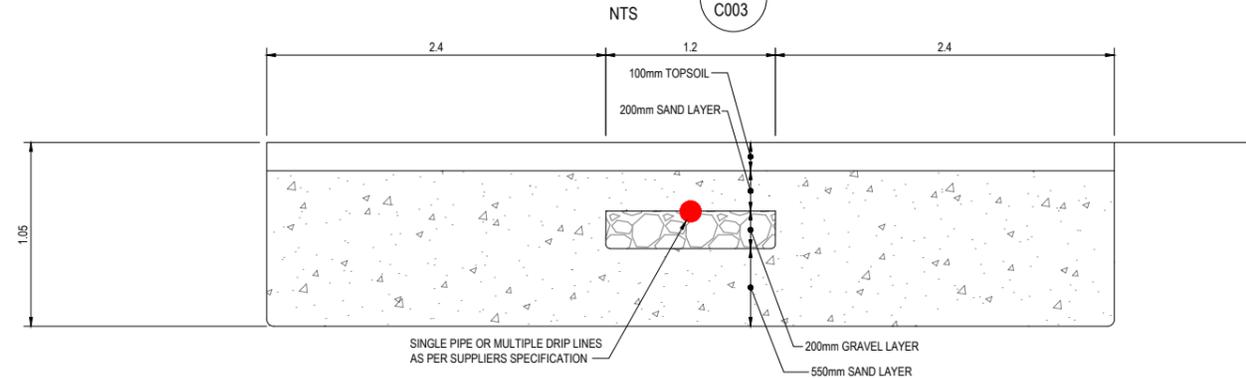
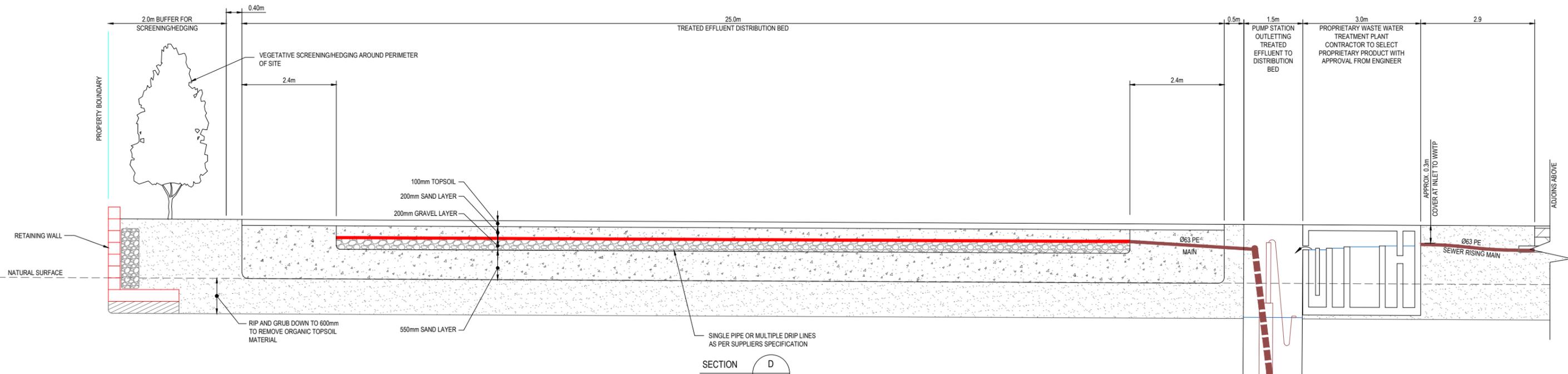
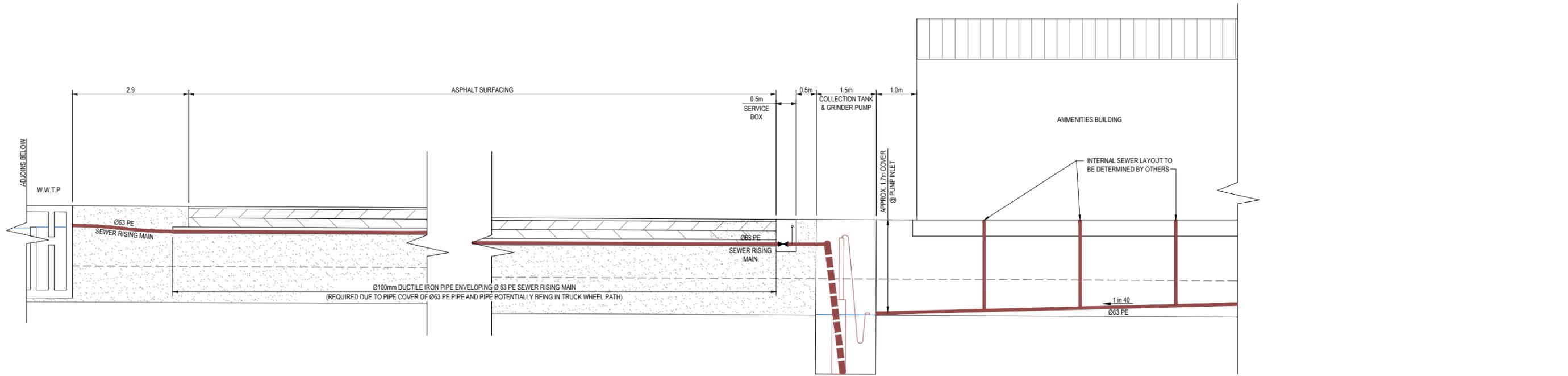


PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: AP2022/011

A 30.05.22 INITIAL ISSUE REV DATE REVISION NOTES	DESIGNER Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT 	PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE		TITLE EARTHWORKS SECTION AND DETAILS	
			DRAWN DJM	DRAWING CHECK PDR	APPROVED DATE -	SCALE NOT TO SCALE

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TREATED EFFLUENT DISTRIBUTION BED
TYPICAL SECTION

SECTION E

NTS

C003

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL

SDA approval: AP2022/011



B	27.02.23	NOTES AROUND DIOL ENVELOPER PIPE AMENDED TO SUIT NEW PLANT LAYOUT
A	30.05.22	INITIAL ISSUE
REV	DATE	REVISION NOTES

DESIGNER



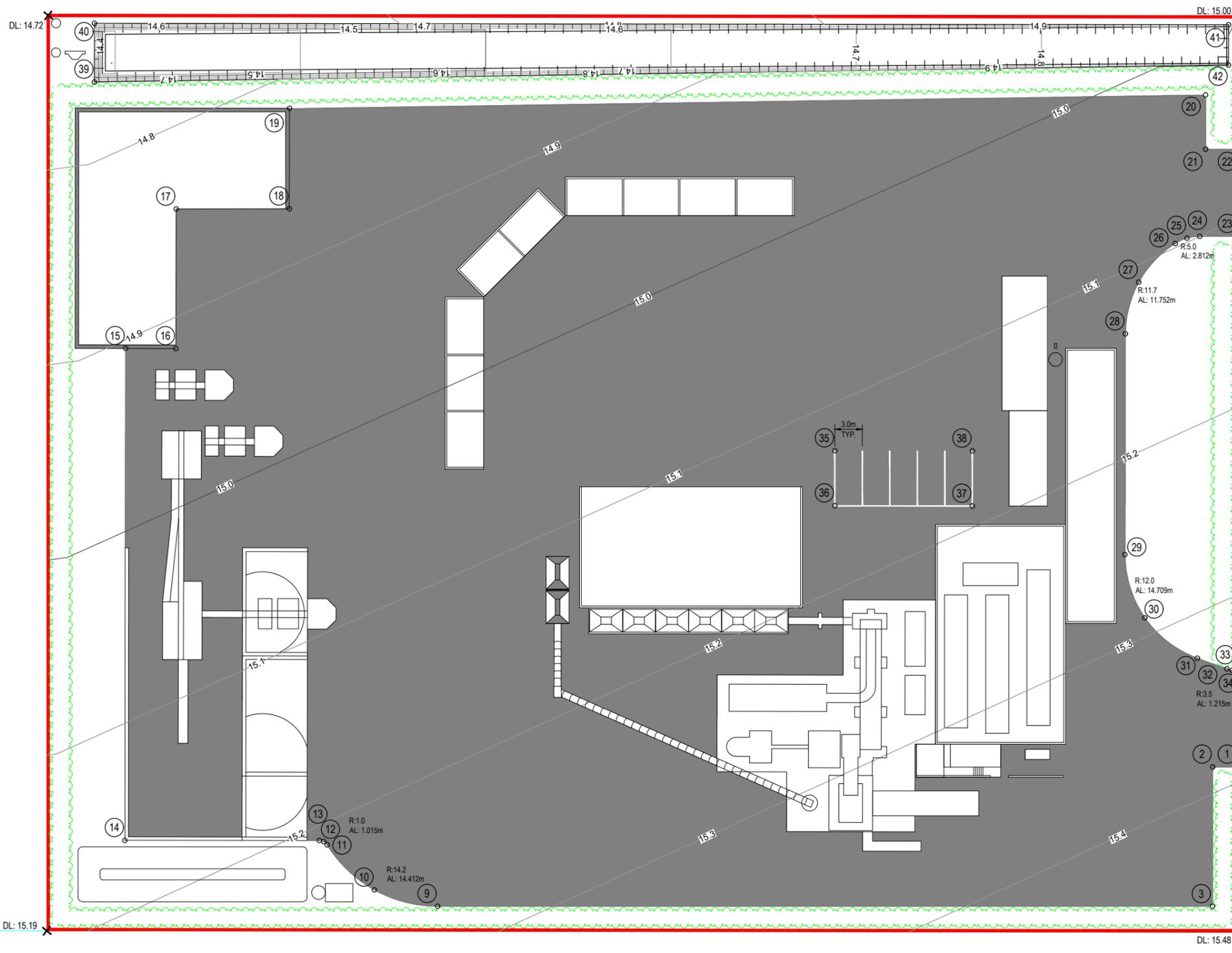
Address: 35 ABBOTT ST, CAIRNS 4870
Email: admin@osegroup.com.au

CLIENT



PROJECT	ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE	
DRAWN	DRAWING CHECK	APPROVED
DJM	PDR	
DESIGNED	DESIGN REVIEW	DATE
DJM	PDR	-

TITLE	ON SITE SEWER TREATMENT SECTIONS AND DETAILS	
SCALE	DRAWING No	REV
NOT TO SCALE	21145-C006	B



SITE SETOUT POINTS

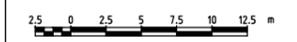
POINT	EASTING	NORTHING	LEVEL
1	369940.814	8114312.587	15.393
2	369941.076	8114315.325	15.386
3	369925.945	8114316.769	15.460
9	369933.982	8114400.983	15.272
10	369936.419	8114407.682	15.248
11	369941.804	8114412.353	15.212
12	369942.184	8114412.682	15.210
13	369942.355	8114413.154	15.208
14	369944.385	8114434.289	15.161
15	369997.803	8114429.107	14.905
16	369997.271	8114423.642	14.916
17	370012.425	8114422.162	14.844
18	370011.269	8114409.866	14.870
19	370022.172	8114408.804	14.818
20	370014.127	8114309.129	15.026
21	370008.228	8114309.692	15.055
22	370007.894	8114306.184	15.064
23	369998.437	8114307.086	15.089
24	369998.832	8114311.226	15.100
25	369998.768	8114312.626	15.098
26	369998.319	8114313.954	15.098
27	69994.490	8114318.329	15.109
28	369989.025	8114320.315	15.134
29	369965.050	8114322.651	15.251
30	369957.969	8114321.146	15.290
31	369953.041	8114315.842	15.324
32	369951.584	8114312.765	15.337
33	369951.373	8114312.197	15.339
34	369951.263	8114311.600	15.343
35	369979.340	8114353.092	15.126
36	369973.362	8114353.674	15.155
37	369971.907	8114338.730	15.188
38	369977.884	8114338.148	15.159
39	370027.060	8114429.735	14.758
40	370033.430	8114429.119	14.728
41	370021.513	8114305.890	14.995
42	370017.136	8114306.319	15.016

WARNER ROAD

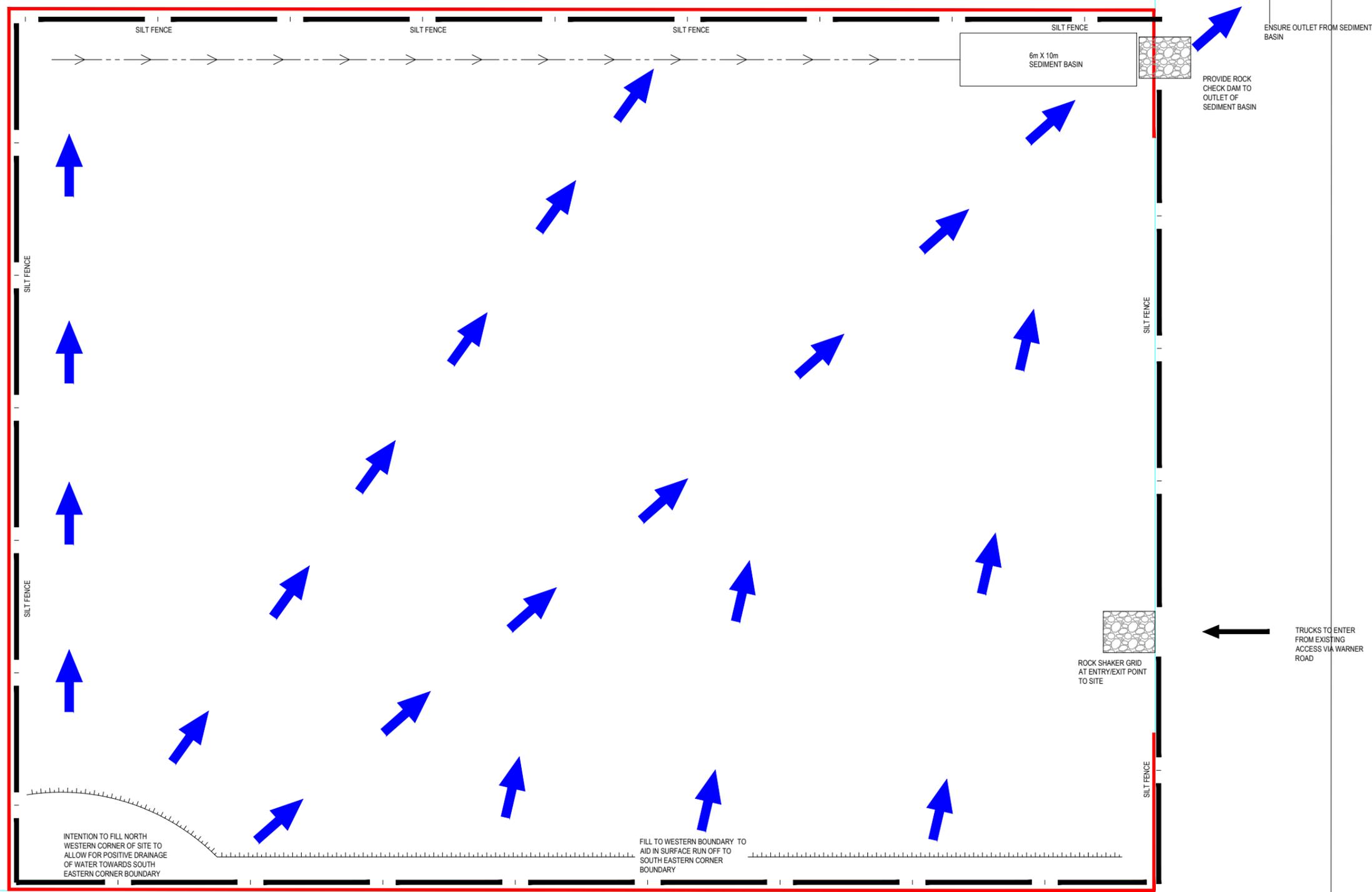
PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL

SDA approval: AP2022/011



B 27.02.23 UPDATED SETOUT TO SUIT NEW INTERNAL PLANT LAYOUT A 30.05.22 INITIAL ISSUE REV DATE REVISION NOTES	 SCALE 1:500	DESIGNER  Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT 	PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE		TITLE SITE CONTOUR PLAN AND SETOUT	
				DRAWN DJM	DRAWING CHECK PDR	APPROVED DATE -	SCALE 1:500 (A3)

27/02/2023 3:42:01 PM File: C:\OSE\OSE Group\Operations - Docs\Projects\2021\21145 Asphalt Plant Warner Rd\Drawings\Working\21145 Koppens Asphalt Plant Warner Road\21145-DESIGN.dwg



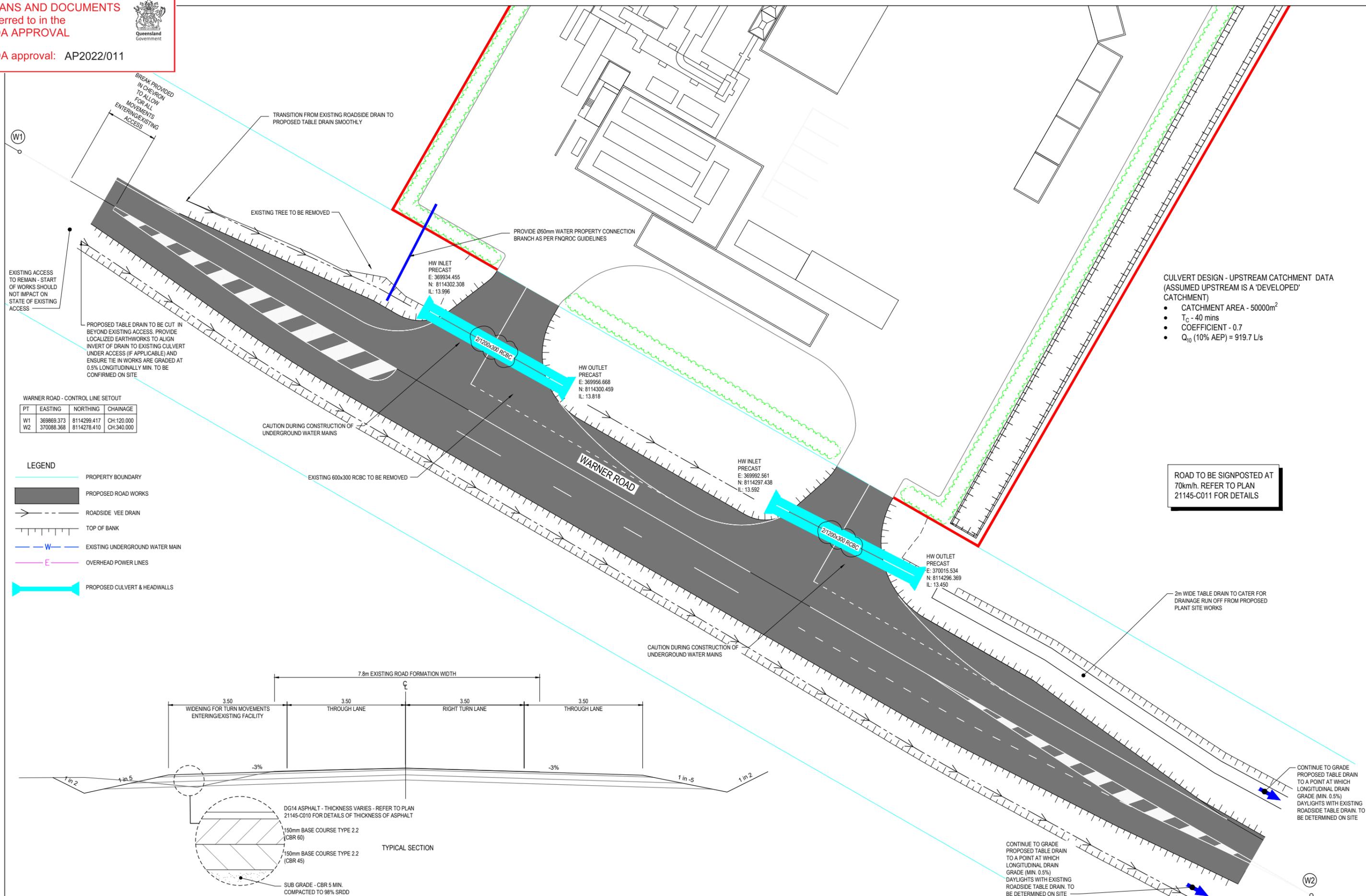
PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: AP2022/011



A 30.05.22 INITIAL ISSUE REV DATE REVISION NOTES		DESIGNER Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT 	PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE			TITLE EROSION AND SEDIMENT CONTROL STRATEGY DURING CONSTRUCTION		
				DRAWN DJM DESIGNED DJM	DRAWING CHECK PDR DESIGN REVIEW PDR	APPROVED DATE -	SCALE 1:500 (A3)	DRAWING No 21145-C008	REV A

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CULVERT DESIGN - UPSTREAM CATCHMENT DATA
(ASSUMED UPSTREAM IS A 'DEVELOPED' CATCHMENT)

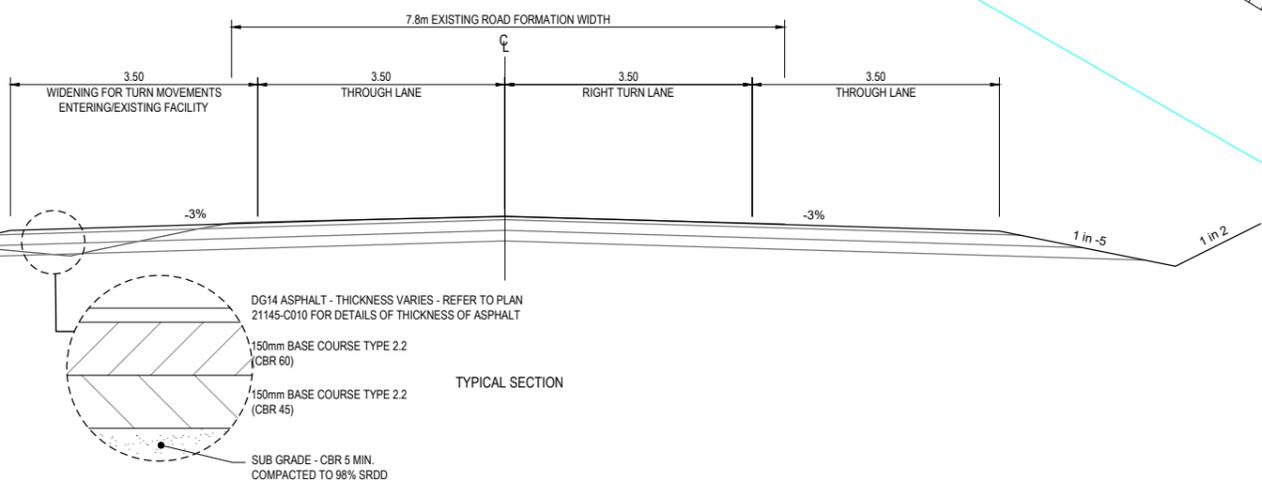
- CATCHMENT AREA - 50000m²
- T_c - 40 mins
- COEFFICIENT - 0.7
- Q₁₀ (10% AEP) = 919.7 L/s

ROAD TO BE SIGNPOSTED AT
70km/h. REFER TO PLAN
21145-C011 FOR DETAILS

WARNER ROAD - CONTROL LINE SETOUT

PT	EASTING	NORTHING	CHAINAGE
W1	369869.373	8114299.417	CH:120.000
W2	370088.368	8114278.410	CH:340.000

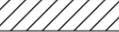
- LEGEND**
- PROPERTY BOUNDARY
 - █ PROPOSED ROAD WORKS
 - ROADSIDE VEE DRAIN
 - TOP OF BANK
 - W — EXISTING UNDERGROUND WATER MAIN
 - E — OVERHEAD POWER LINES
 - PROPOSED CULVERT & HEADWALLS



B 20.01.23 CULVERTS UNDER ACCESSES UPSIZED A 30.05.22 INITIAL ISSUE REV DATE REVISION NOTES	SCALE 1:500	DESIGNER Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT 	PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE		TITLE EXTERNAL SITE WORKS - WARNER ROAD WIDENING UPGRADE GENERAL ARRANGEMENT	
				DRAWN DJM	DRAWING CHECK PDR	APPROVED DATE -	SCALE 1:500 (A3)

WARNER ROAD SETOUT POINTS

POINT	EASTING	NORTHING	LEVEL
1	369894.585	8114300.897	14.786
2	369925.929	8114301.024	14.489
3	369930.032	8114300.630	14.464
4	369934.019	8114301.435	14.556
5	369936.885	8114304.320	14.875
6	369940.251	8114310.571	15.375
7	369940.623	8114311.576	15.384
8	369940.810	8114312.537	15.393
9	369951.264	8114311.600	15.343
10	369951.077	8114309.678	15.328
11	369953.535	8114301.618	14.740
12	369960.975	8114297.662	14.300
13	369989.026	8114294.971	14.187
14	369992.615	8114295.757	14.275
15	369995.073	8114298.488	14.560
16	369997.764	8114304.484	15.081
17	369998.199	8114305.714	15.110
18	369998.429	8114306.999	15.116
19	370007.894	8114306.117	15.070
20	370007.894	8114306.117	15.070
21	370010.780	8114296.678	14.596
22	370019.495	8114292.049	14.099
23	370037.880	8114290.285	13.966
24	370067.431	8114284.439	14.130
25	370077.798	8114275.436	14.123
26	370076.053	8114275.487	14.122
27	370074.308	8114275.524	14.119
28	370057.865	8114275.818	14.088
29	370035.319	8114276.799	14.077
30	370028.981	8114277.158	14.079
31	370022.654	8114277.681	14.090
32	369929.317	8114286.535	14.460
33	369918.228	8114287.944	14.536
34	369907.207	8114289.737	14.630
35	369889.037	8114293.104	14.804
36	369886.210	8114293.610	14.831
37	369883.378	8114294.082	14.857
38	369894.793	8114303.068	14.315
39	369926.120	8114303.007	14.056
40	369931.393	8114302.561	14.440
41	369961.183	8114299.806	13.834
42	369989.277	8114297.591	13.615
43	370019.351	8114297.193	13.470
44	370038.401	8114295.721	13.303
45	370068.052	8114290.908	13.142
46	370079.209	8114290.142	13.203
47	369983.101	8114291.195	14.277
48	369908.769	8114288.912	14.112
49	369928.751	8114284.365	14.000
50	369943.139	8114282.962	13.914
51	369972.983	8114279.904	13.735
52	369992.876	8114277.826	13.628
53	370012.747	8114275.529	13.494
54	370036.234	8114273.122	13.350
55	370057.571	8114271.542	13.230
56	370077.311	8114270.359	13.105

- LEGEND**
-  PROPERTY BOUNDARY
 -  50mm ASPHALT SURFACING
 -  30mm ASPHALT SURFACING
 -  AREA OF NEW PAVEMENT

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL

SDA approval: AP2022/011




DESIGNER



Address: 35 ABBOTT ST, CAIRNS 4870
Email: admin@osegroup.com.au

CLIENT



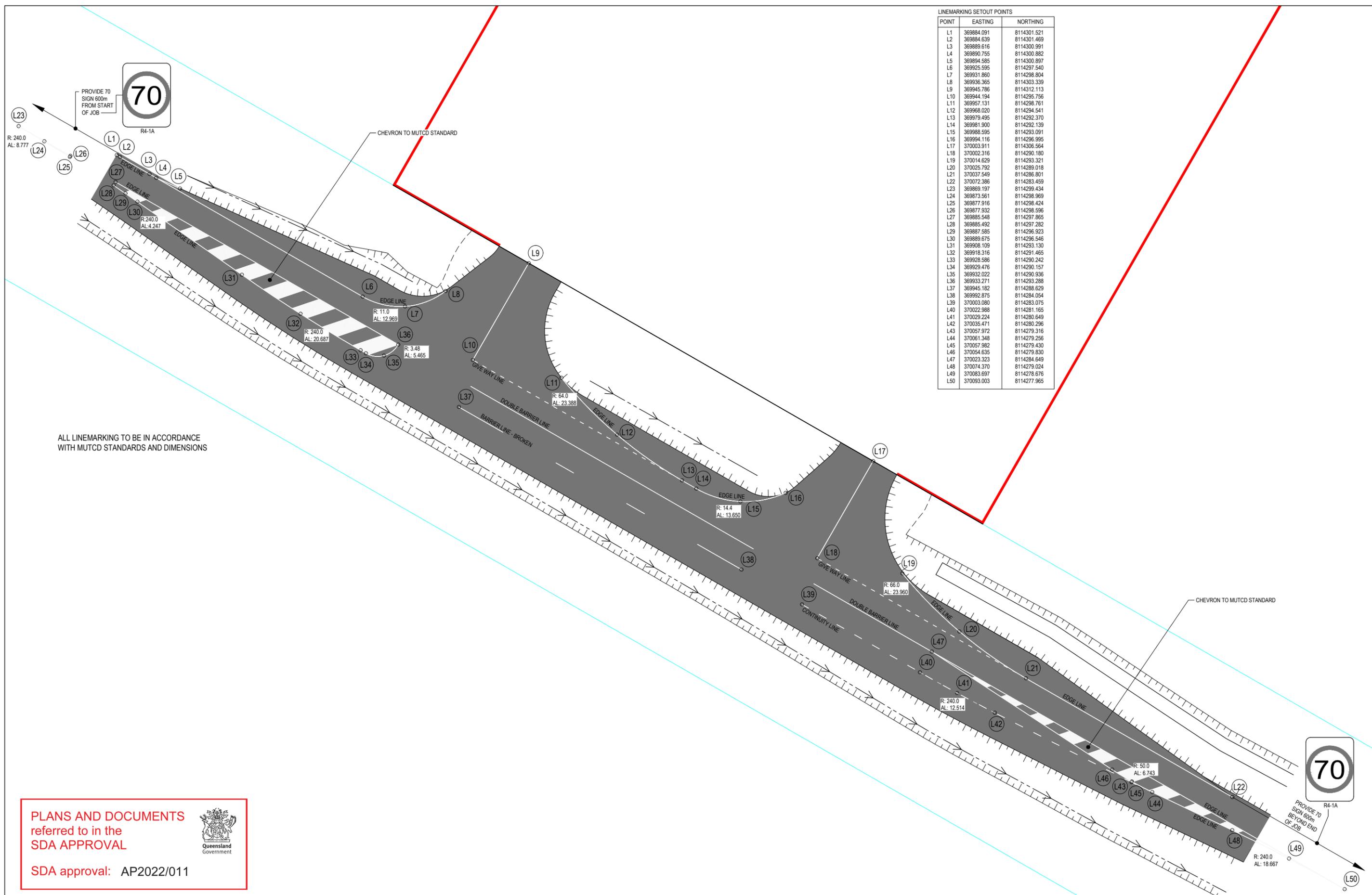
PROJECT
ASPHALT & CONCRETE BATCHING PLANT
WARNER ROAD - GORDONVALE

DRAWN DJM	DRAWING CHECK PDR	APPROVED
DESIGNED DJM	DESIGN REVIEW PDR	DATE -

TITLE
EXTERNAL SITE WORKS - WARNER ROAD WIDENING UPGRADE
PAVEMENT, SURFACING AND SETOUT PLAN

SCALE 1:500 (A3) DRAWING No 21145-C010 REV B

POINT	EASTING	NORTHING
L1	369884.091	8114301.521
L2	369884.639	8114301.469
L3	369885.616	8114300.991
L4	369890.755	8114300.882
L5	369894.585	8114300.897
L6	369925.595	8114297.540
L7	369931.860	8114298.804
L8	369936.365	8114303.339
L9	369945.786	8114312.113
L10	369944.194	8114295.756
L11	369957.131	8114298.761
L12	369968.020	8114294.541
L13	369979.495	8114292.370
L14	369981.900	8114292.139
L15	369988.595	8114293.091
L16	369994.116	8114296.595
L17	370003.911	8114306.554
L18	370002.316	8114290.180
L19	370014.629	8114293.321
L20	370025.792	8114289.018
L21	370037.549	8114286.801
L22	370072.386	8114283.459
L23	369869.197	8114299.434
L24	369873.561	8114298.969
L25	369877.916	8114298.424
L26	369877.932	8114298.596
L27	369885.548	8114297.865
L28	369885.492	8114297.282
L29	369887.585	8114296.923
L30	369889.675	8114296.546
L31	369908.109	8114293.130
L32	369918.316	8114291.465
L33	369928.586	8114290.242
L34	369929.476	8114290.157
L35	369932.022	8114290.936
L36	369933.271	8114293.288
L37	369945.182	8114288.629
L38	369992.875	8114284.054
L39	370003.080	8114283.075
L40	370022.988	8114281.165
L41	370029.224	8114280.649
L42	370035.471	8114280.296
L43	370057.972	8114279.316
L44	370061.348	8114279.256
L45	370057.982	8114279.430
L46	370054.635	8114279.830
L47	370023.323	8114284.649
L48	370074.370	8114279.024
L49	370083.697	8114278.676
L50	370093.003	8114277.965



ALL LINEMARKING TO BE IN ACCORDANCE WITH MUTCD STANDARDS AND DIMENSIONS

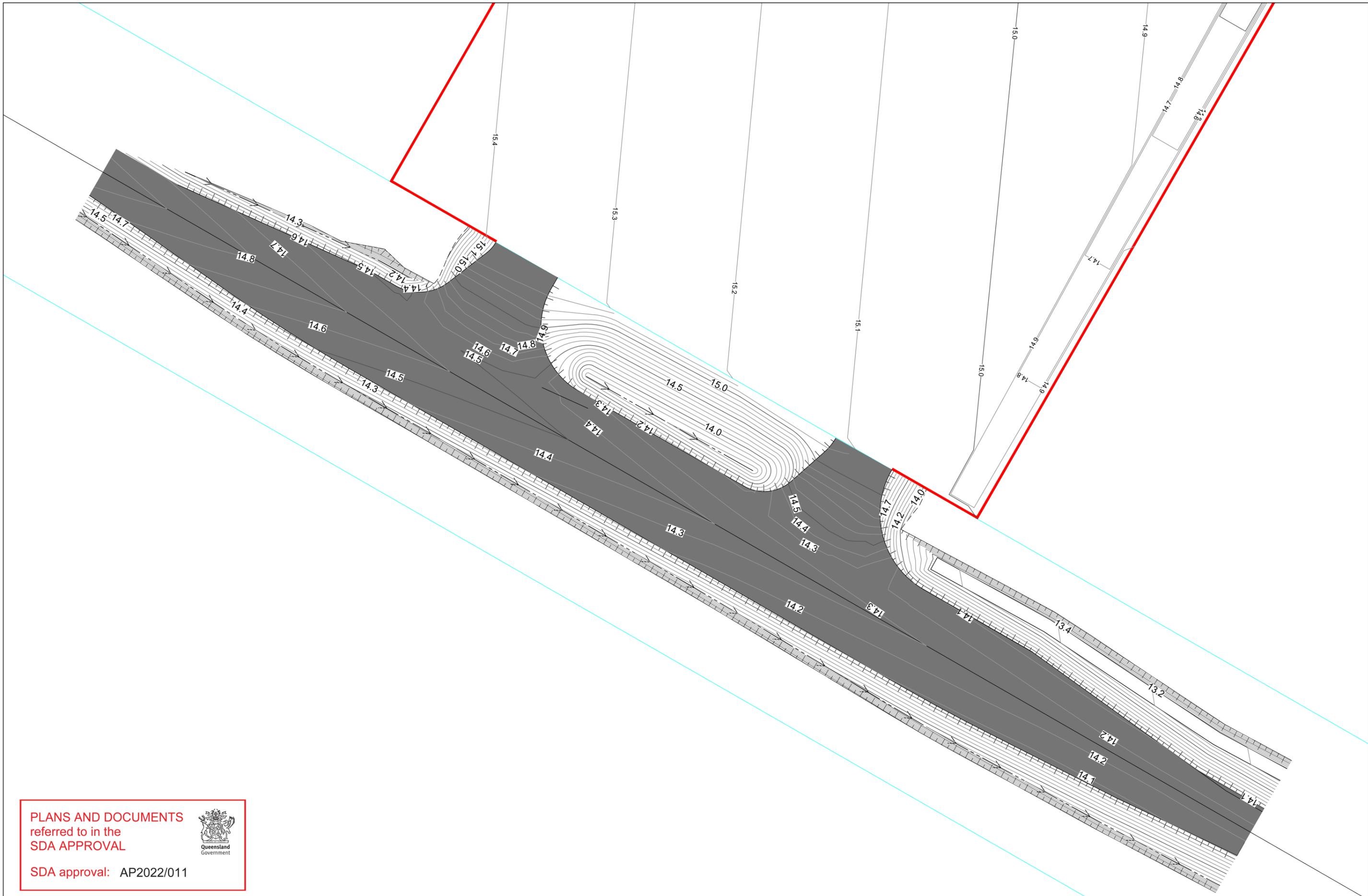
PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: AP2022/011



B 20.01.23 SPEED SIGNS AMENDED A 30.05.22 INITIAL ISSUE REV DATE REVISION NOTES	 SCALE 1:500	DESIGNER  Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT 	PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE	TITLE EXTERNAL SITE WORKS - WARNER ROAD WIDENING UPGRADE LINEMARKING SETOUT	
					DRAWN DJM	DRAWING CHECK PDR

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PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL



SDA approval: AP2022/011

B 20.01.23 RETURN ON SOUTH EASTERN ENTRANCE AMENDED
A 30.05.22 INITIAL ISSUE

REV DATE REVISION NOTES



SCALE 1:500

DESIGNER



Address: 35 ABBOTT ST, CAIRNS 4870
Email: admin@osegroup.com.au

CLIENT



PROJECT

ASPHALT & CONCRETE BATCHING PLANT
WARNER ROAD - GORDONVALE

DRAWN

DJM

DESIGNED

DJM

DRAWING CHECK

PDR

DESIGN REVIEW

PDR

APPROVED

DATE

-

TITLE

EXTERNAL SITE WORKS - WARNER ROAD WIDENING UPGRADE
CONTOUR PLAN

SCALE

1:500

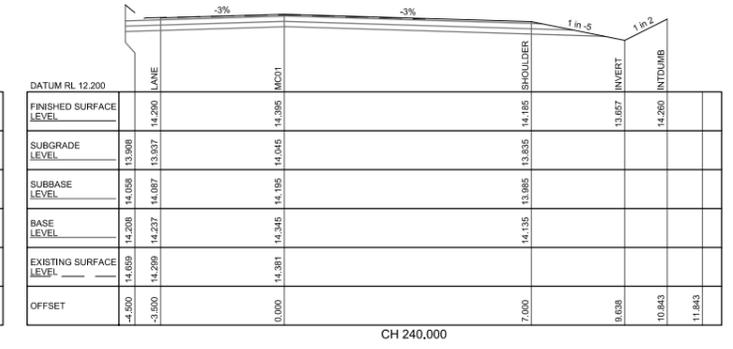
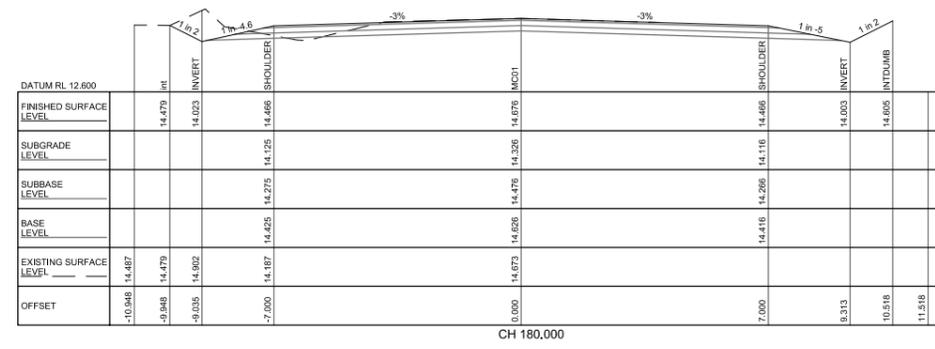
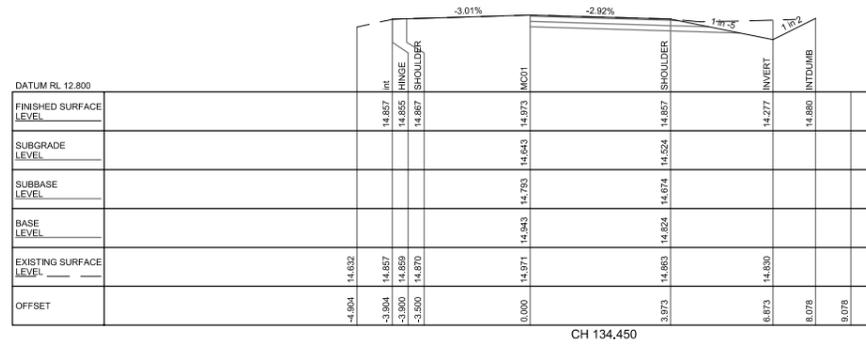
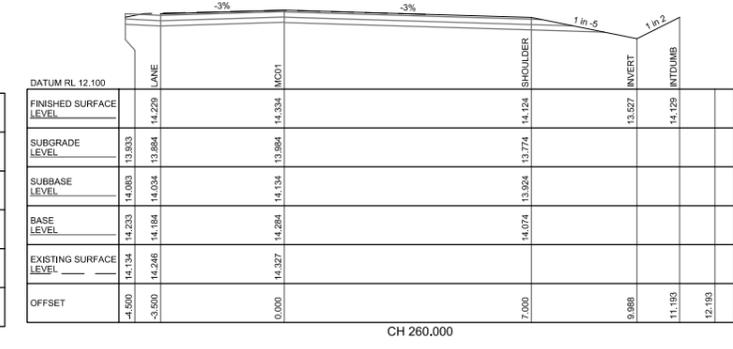
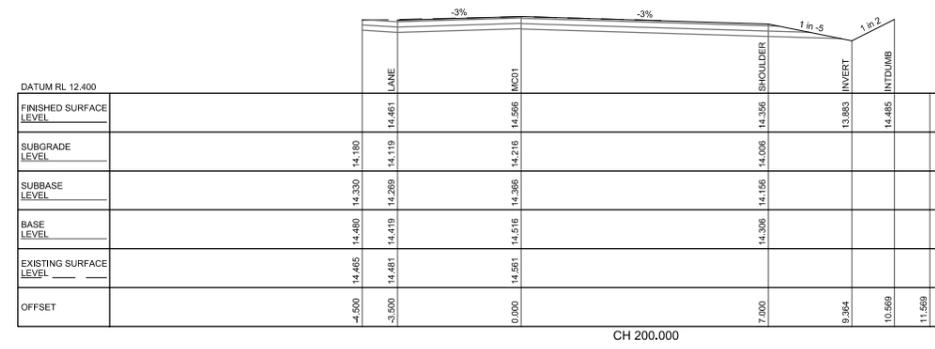
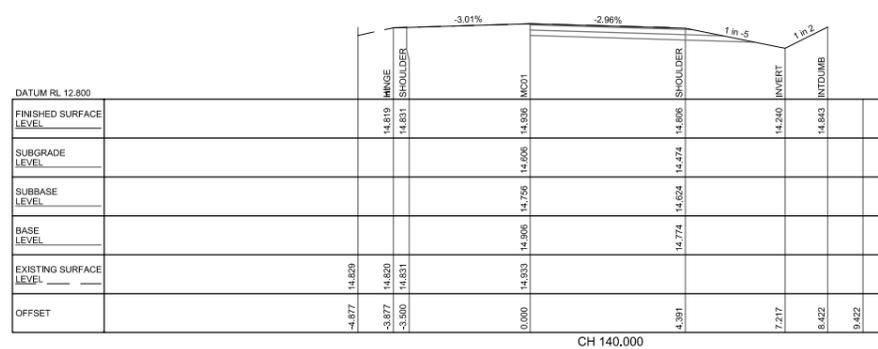
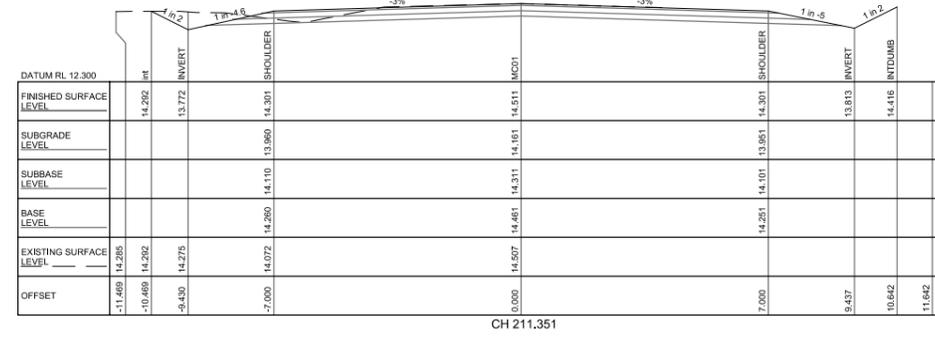
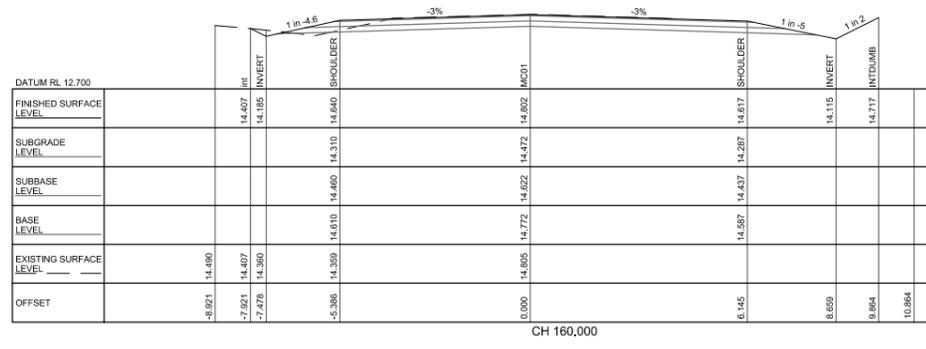
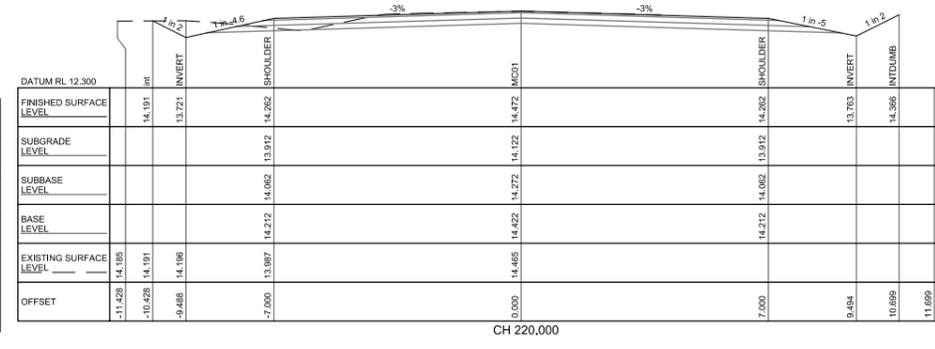
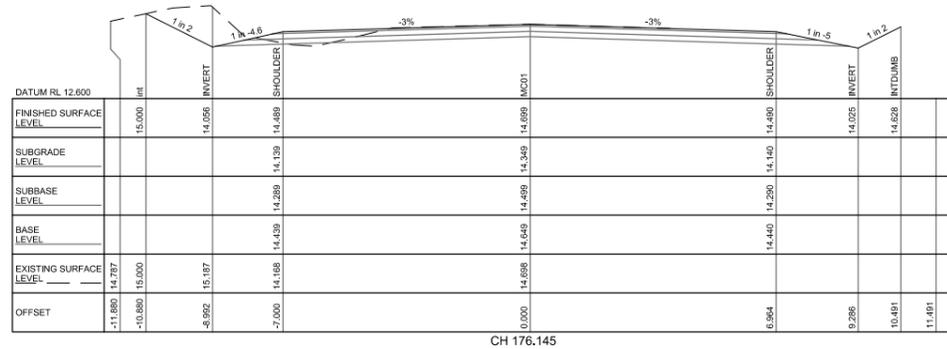
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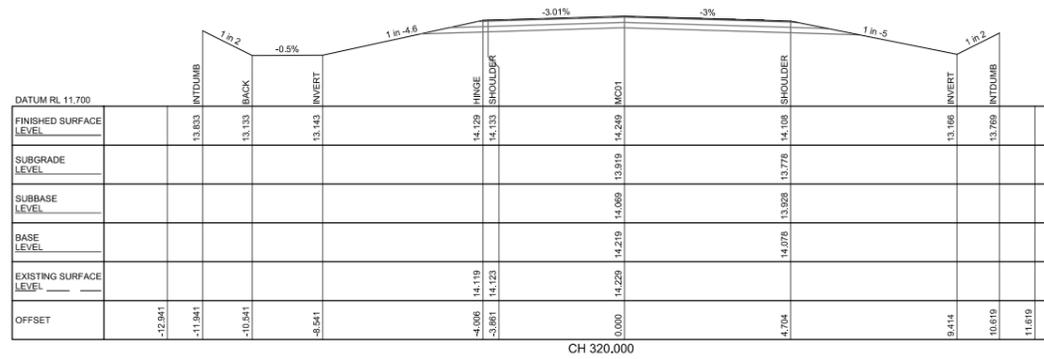
(A3)

21145-C012

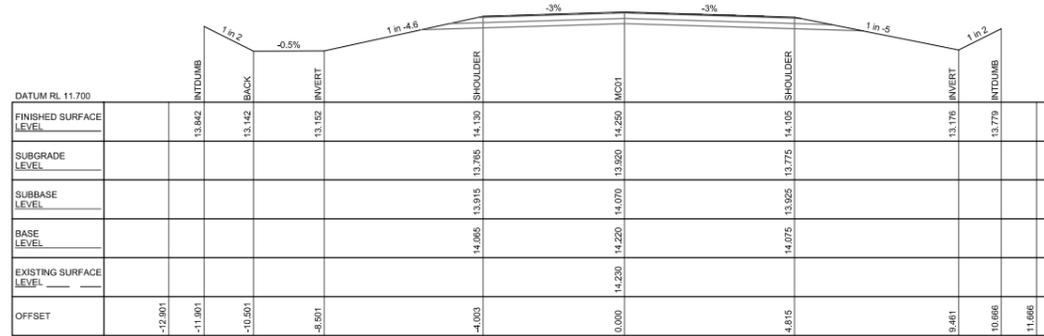
REV

B

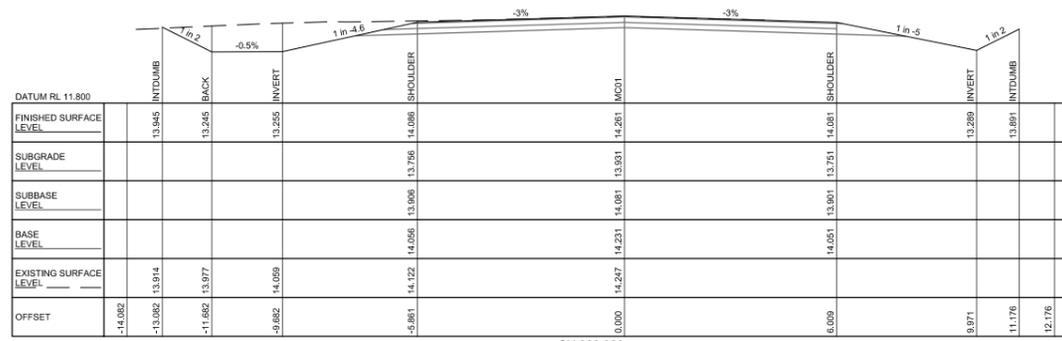




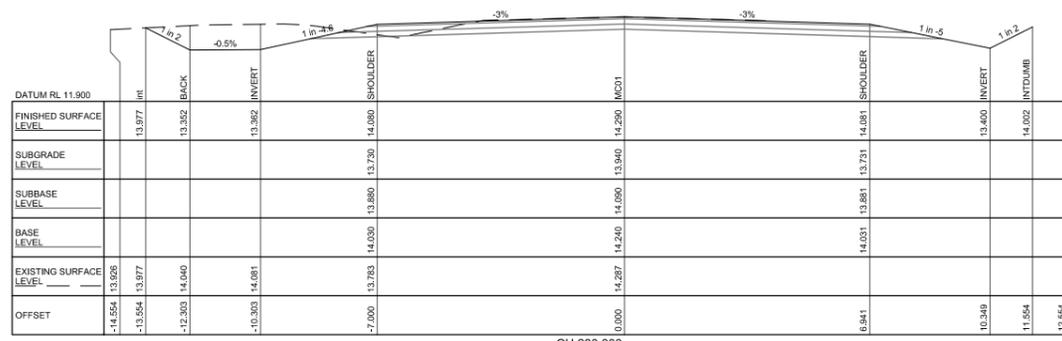
CH 320.000



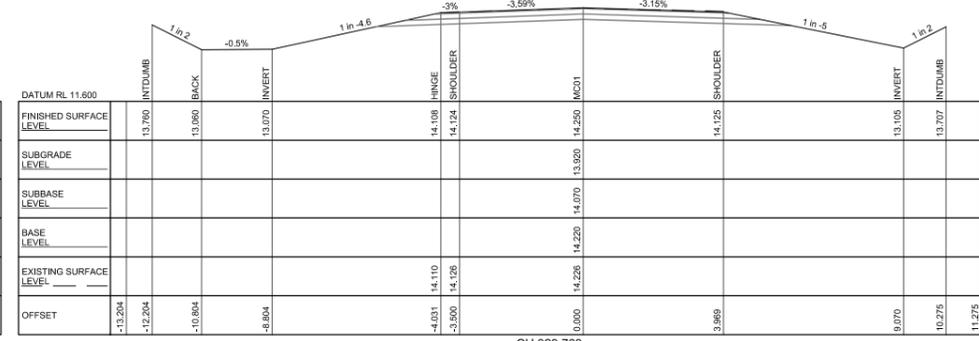
CH 318.583



CH 300.000



CH 280.000



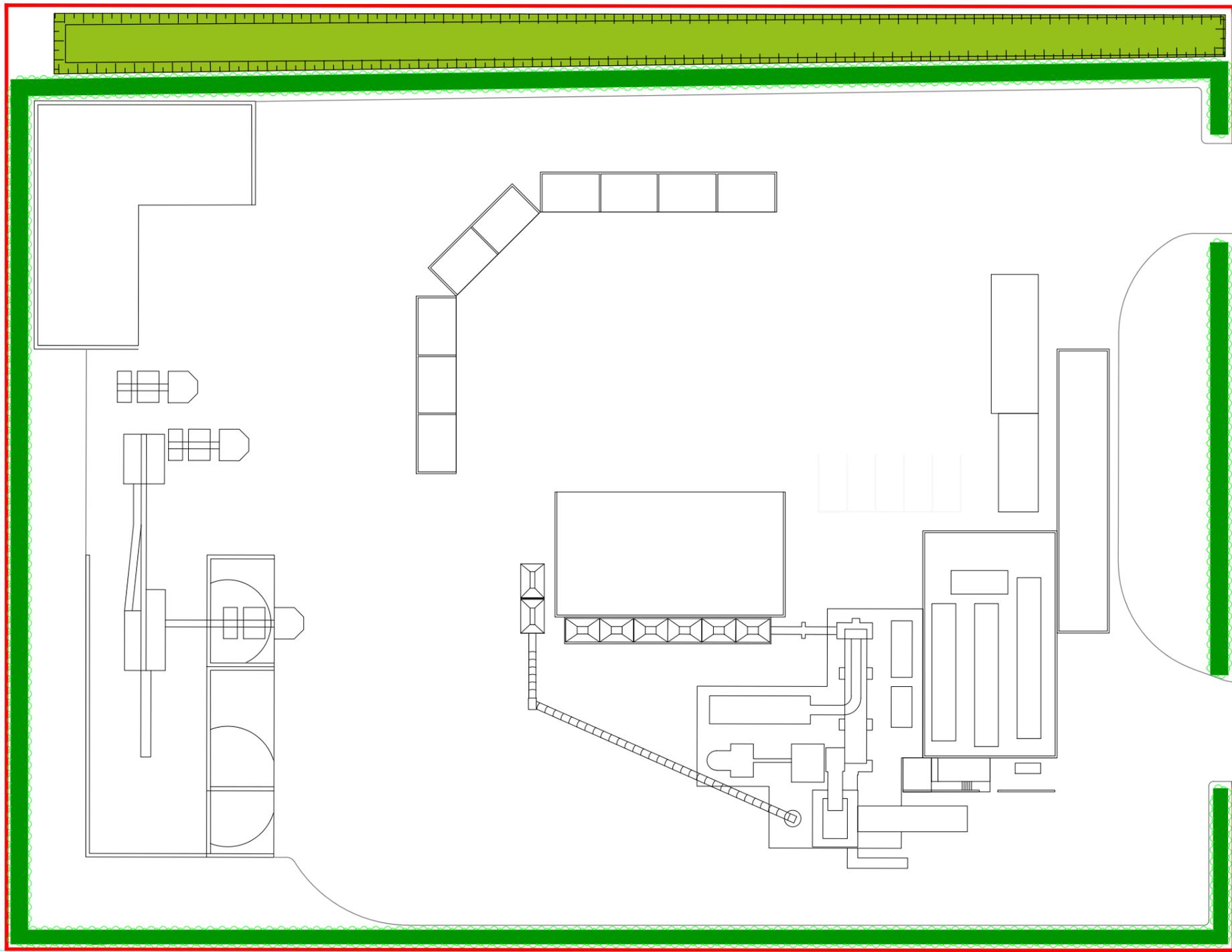
CH 329.763

PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: AP2022/011

B 24.01.23 ROAD PAVEMENT UPDATED TO FULL PAVEMENT REPLACEMENT A 30.05.22 INITIAL ISSUE REV DATE REVISION NOTES	SCALE 1:100	DESIGNER Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT 	PROJECT ASPHALT & CONCRETE BATCHING PLANT WARNER ROAD - GORDONVALE	TITLE WARNER ROAD - ANNOTATED CROSS SECTIONS SHEET 2 OF 2	
					DRAWN DJM	DRAWING CHECK PDR

27/02/2023 3:42:06 PM File: C:\OSE\OSE Group\Operations - Docs\Projects\2021\21145 Asphalt Plant Warner Rd\Drawings\Working\21145 Koppens Asphalt Plant Warner Road\21145-DESIGN.dwg



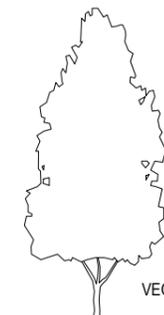
BIORETENTION SWALE PLANT TYPES

TYPE:	NOTES
1. <i>Ficinia nodosa</i>	Mix of adjacent planted at 8 per square meter
2. <i>Gahnia aspera</i>	
3. <i>Carex appressa</i>	
4. <i>Imperata cylindrica</i>	
5. <i>Lomandra hystrix</i>	



GRASS AND GROUND COVER SPECIES

TYPE:	NOTES
1. <i>Lomandra hystrix</i>	Mix of species planted at density 3/sq.m
2. <i>Phyllanthus multifolius</i>	
3. <i>Gardenia psidioides</i> "Glennie River"	



VEGETATIVE SCREENING/HEDGING PLANT TYPES

TYPE:	NOTES
1. <i>Acmena smithii</i>	Mix of species, max 3 of same type in a row, planted at 800mm centres
2. <i>Leea indica</i>	
3. <i>Phyllanthus lamprophyllus</i>	
4. <i>Syzygium australe</i>	



PLANS AND DOCUMENTS referred to in the SDA APPROVAL

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1SP323733
101 Warner Rd

2RP731083

2SP323733

Pine Creek - Yarrabah Road (8101)

WARNER RD

Permitted Road Access Location - Western access

Approx 25m from the common boundary with Lot 2RP731083

GPS location x 145.777940, y -17.051744

Access Restrictions

- a) Design vehicles up to a maximum size Six Axle (or more)
Articulated Vehicle - Class 9 Long (up to 19.0m) Heavy Vehicle**

Note: ** as described in Austroads Vehicle Classification System

Permitted Road Access Location - Eastern access

Approx 20m from the common boundary with Lot 2SP323733

GPS location x 145.778475, y -17.051797

Access Restrictions

- a) Design vehicles up to a maximum size Six Axle (or more)
Articulated Vehicle - Class 9 Long (up to 19.0m) Heavy Vehicle**

Note: ** as described in Austroads Vehicle Classification System



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Branch/Unit : **Corridor Management / Far North District**

Land parcels Subject land

Projection/Datum : Geocentric Datum of Australia (GDA) 2020

File ref: TMR22-37465 (500-321)

**TMR Layout Plan
(8101 - 1.03km)**

Plan:
1 / 1

Issue: **A**

Drawn by:
RPK



Queensland Government
Transport and Main Roads

Date: **11/10/2022**

SITE BASED MANAGEMENT PLAN

Koppen Construction Pty Ltd



R81437 PR150263

0

8 July 2022

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL



SDA approval: AP2022/011

DRAFT

Cairns South State Development Area

Base Line Hydraulic Modelling

28-Jun-2023
Cairns South State Development Area

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