PROPOSED INDUSTRIAL BUILDING

295 Cormorant Road, Kooragang

CONCEPT STORMWATER / CIVIL WORKS

GENERAL NOTES

- G1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED.
- G2. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS. REFER ARCHITECTS DRAWINGS FOR ALL DIMENSIONS.
- G3. REFER ANY DISCREPANCY TO THE ENGINEER/ARCHITECT
- G4. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE APPROPRIATE SAA SPECIFICATIONS OR CODE AND WITH THE REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY.
- G5. THE ALIGNMENT AND LEVEL OF ALL SERVICES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM THE POSITION AND LEVEL OF ALL SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE
- G6. NO WORKS ARE TO COMMENCE UNTIL THE REQUIRED TREE REMOVAL PERMITS HAVE BEEN GRANTED BY RELEVANT LOCAL AUTHORITY, AND THE APPROPRIATE NOTICE OF INTENTION
- G7. ALL SERVICES, OR CONDUITS FOR SERVICING SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.
- G8. SUBSOIL DRAINAGE, COMPRISING 100 AGRICULTURE PIPE IN GEO-STOCKING TO BE PLACED AS SHOWN AND AS MAY BE DIRECTED BY THE SUPERINTENDENT. SUBSOIL DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY
- G9. NO WORK IS PERMITTED WITHIN ADJOINING PROPERTIES WITHOUT WRITTEN PERMISSION FROM THE OWNERS OR RESPONSIBLE AUTHORITY

DRAINAGE NOTES

CONSTRUCTION SPECIFICATION

- D1. ALL DRAINAGE OUTLET LEVELS SHALL BE CONFIRMED ON SITE, PRIOR TO CONSTRUCTION COMMENCING.
- D2. ALL PIPES WITHIN THE PROPERTY TO BE MIN. 100 DIA UPVC @ 1% MIN. GRADE, UNO. D3. ALL PITS WITHIN THE PROPERTY ARE TO BE FITTED WITH "WELDLOK" OR APPROVED **EQUIVALENT GRATES:**
- LIGHT DUTY FOR LANDSCAPED AREAS
- HEAVY DUTY WHERE SUBJECTED TO VEHICULAR TRAFFIC D4. PITS WITHIN THE PROPERTY MAY BE CONSTRUCTED AS:
- 1) PRECAST STORMWATER PITS
- 2) CAST INSITU MASS CONCRETE 3) CEMENT RENDERED 230mm BRICKWORK
- SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION. D5. ENSURE ALL GRATES TO PITS ARE SET BELOW FINISHED SURFACE LEVEL WITHIN THE
- PROPERTY. TOP OF PIT RL'S ARE APPROXIMATE ONLY AND MAY BE VARIED SUBJECT TO APPROVAL OF THE ENGINEER. ALL INVERT LEVELS ARE TO BE ACHIEVED.
- D6. ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED RCP, UNO.
- D7. ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING **BOLTS AND CONTINUOUS HINGE**
- D8. PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH.
- D9. TRENCH BACK FILL IN ROADWAYS SHALL COMPRISE SHARP, CLEAN GRANULAR BACK FILL IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION TO NON-TRAFFICABLE AREAS TO BE COMPACTED BY RODDING AND TAMPING USING A FLAT PLATE VIBRATOR.
- D10. WHERE A HIGH EARLY DISCHARGE (HED) PIT IS PROVIDED ALL PIPES ARE TO BE CONNECTED TO THE HED PIT, UNO.
- D11. DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR 100X100 COLORBOND/ZINCALUME STEEL, UNO.
- D12. COLORBOND OR ZINCALUME STEEL BOX GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150
- D13. EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA) COLORBOND OR ZINCALUME STEEL, UNO.
- D14. SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH

THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM, UNO.

EARTHWORKS NOTES E1. THE EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT

- E2. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL
- AND VEGETATION.
- E3. SUBGRADE SHALL BE COMPACTED UNTIL A DRY DENSITY HAS BEEN ACHIEVED OF NOT LESS THAN 100% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AS 1289 TESTS E.1.1. OR E.1.2

E4. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET

- AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED E5. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY,
- PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 150 LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD DRY DENSITY AT A MOISTURE CONTENT WITHIN 2% OF OPTIMUM.
- E6. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.
- E7. STORMWATER MUST NOT BE CONCENTRATED ON TO AN ADJACENT PROPERTY. E8. AT NO TIME DURING OR AFTER CONSTRUCTION IS STORMWATER TO BE PONDED ON
- ADJOINING PROPERTIES. E9. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED
- AWAY FROM THE BUILDING PLATFORM. E10. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM

THE SITE WORKS AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER

- E11. ALL SURFACE CATCH DRAINS SHALL BE GRADED AT 1% (1 IN 100) MINIMUM. THE GROUND SHALL GRADE AWAY FROM ANY DWELLING AT 5% (1 IN 20) FOR THE FIRST METRE THEN AT
- 2.5% (1 IN 40). E12. WHERE A CUT FILL PLATFORM IS USED THERE SHALL BE A MINIMUM BERM 1000 WIDE TO THE PERIMETER OF THE SITE WORKS WHICH SHALL BE SUPPORTED BY BATTERS OF 3:1 IN
- E13. ANY VERTICAL OR NEAR VERTICAL PERMANENT EXCAVATION (CUT) DEEPER THAN 600 IN MATERIAL OTHER THAN ROCK SHALL BE ADEQUATELY RETAINED OR BATTERED AT A
- E14. WHERE BATTERS CANNOT BE PROVIDED TO SUPPORT THE CUT OR FILL, THEY SHALL BE ADEQUATELY RETAINED.
- E15. RETAINING WALLS ARE TO BE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.

CONCRETE PAVEMENT

- C1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS. C2. PROVIDE JOINTING AT MINIMUM 6000 MAX. INTERVALS OR AS OTHERWISE SPECIFIED IN THE
- C3. CONCRETE SHALL COMPRISE A MIN. COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION, UNO.
- C4. ANY SUB-BASE MATERIAL SHALL BE COMPACTED AS OUTLINED IN EARTHWORKS. C5. CONCRETE KERB AND GUTTER SHALL COMPRISE A MINIMUM COMPRESSIVE STRENGTH OF
- C6. CONCRETE WORKS ARE TO BE CURED BY ONE OF THE FOLLOWING MEANS: i) WETTING TWICE DAILY FOR THE FIRST THREE DAYS; ii) USING AN APPROVED CURING COMPOUNDED FOR A MINIMUM OF 7 DAYS COMMENCING

FLEXIBLE PAVEMENT NOTES

IMMEDIATELY AFTER POURING.

DELETERIOUS MATERIAL

- SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER THE RELEVANT COUNCIL AUTHORITY **SPECIFICATION**
- F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150 AND NOT LESS 75 COMPACTED THICKNESS.
- F4. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141. CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75 NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER
- F6. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.2)

DESCRIPTION MEDIUM DENSITY RATIO SUB-BASE 98% MOD

BASE COURSE 98% MOD ASPHALTIC CONCRETE 97% MOD

- AND SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.
- F7. TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978.

PAVED AREAS NOTES

- A1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- A2. ALL PAVERS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S
- A3. TRAFFICABLE AREAS:
- SUB-BASE TO BE 150 COMPACTED THICKNESS DGS75. SUB-BASE TO BE SUITABLY COMPACTED TO MEDIUM DENSITY 98% MOD. SUB-BASE TO EXTEND AT LEAST 200 BEYOND PAVED SURFACE. PAVERS TO BE 80 THICK INTERLOCKING PAVERS ON 50 SAND BEDDING.
- A4. NON TRAFFICABLE AREAS: SUB BASE AS PER TRAFFICABLE AREAS
- PAVERS TO BE 60 INTERLOCKING PAVERS ON 50 SAND BEDDING (UNO).

EROSION AND SEDIMENT NOTES

- B1. THIS PLAN TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS
- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF THE RELEVANT LOCAL AUTHORITY PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT THE RELEVANT LOCAL AUTHORITY APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS'
- B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL SHALL BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY, (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF
- B4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES SUCH THAT MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL
- B5. LAY TURF STRIP (MIN 300 WIDE) ON 100 TOPSOIL BEHIND ALL KERB WITH 1000 LONG RETURNS EVERY 6000 AND AROUND STRUCTURES IMMEDIATELY AFTER BACKFILLING AS
- PER THE RELEVANT LOCAL AUTHORITY SPECIFICATION. B6. THE CONTRACTOR SHALL GRASS SEED ALL DISTURBED AREAS WITH AN APPROVED MIX AS SOON AS PRACTICABLE AFTER COMPLETION OF EARTHWORKS AND REGRADING.
- B7. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS. B8. WHEN ANY DEVICES ARE TO BE HANDED OVER TO COUNCIL THEY SHALL BE IN CLEAN AND
- STABLE CONDITION. B9. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT
- NOT SATURATING) DISTURBED AREA. B10. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENT IS REVEGETATED OR PAVED.
- B11. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING. B12. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL:
 - DOWNPIPES CONNECTED - PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER

CONCRETE STRUCTURES NOTES

- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- S2. CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS, UNO:

ELEMENT	SLUMP mm	MAX. SIZE AGG. mm	CEMENT TYPE	fc AT 28 DAYS - MPa	ADMIXTURE
FOOTINGS	80	20	Α	25	-
PIERS & CAPS	80	20	Α	25	-
SLABS ON GROUND	80	20	Α	32	-
SUSPENDED SLABS	80	20	Α	32	-
PITS	80	20	Α	25	-

S3. MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT INCLUDING TIES AND STIRRUPS SHALL BE AS FOLLOWS UNO

AND STIRROFS STALL BE AS FOLLOWS UNO.							
5/500/155	MINIMUM COVER (mm)						
EXPOSURE CLASSIFICATION		CONCRETE STRENGTH (fc)					
	20 MPa	25 MPa	32 MPa	40 MPa	>50 MPa		
A1	20	20	20	20	20		
A2	(50)	30	25	20	20		
B1	-	(60)	40	30	25		
B2	-	-	(65)	45	35		
С	-	-	-	(70)	50		

FOR BRACKETED FIGURES REFER TO AS 3600 CURRENT EDITION TABLE 4.10.3.2

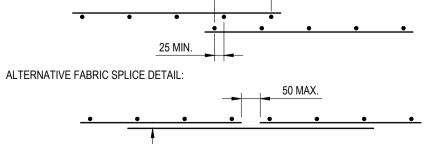
S4. MINIMUM COVER FOR FIRE RESISTANCE LEVEL (FRL) SHALL BE AS FOLLOWS:

		MENT WIDTH OR THIC	, -	•
FRL	BEAM	SLAB	COLUMN	WALL

	MINIMUM ELEMENT WIDTH OR THICKNESS / MIN COVER (mm)						
FRL	BEAM	SLAB	COLUMN	WALL			
60	125 / 30	80 / 20	200 / 20	80 / 20			
90	150 / 45	100 / 25	250 / 35	100 / 35			
120	200 / 55	120 / 30	300 / 45	120 / 40			
180	240 / 70	150 / 45	400 / 60	150 / 45			
240	270 / 80	170 / 55	450 / 70	170 / 50			

NOTE: 1. REFER TO AS 3600 CURRENT EDITION FOR REDUCED COVERS IF GREATER ELEMENT THICKNESSES ARE ADOPTED FOR BEAMS & COLUMNS. 2. COVER IS MEASURED TO THE MAIN REINFORCEMENT

- S5. COVER TO REINFORCEMENT SHALL BE OBTAINED BY THE USE OF APPROVED BAR CHAIRS. ALL CHAIRS SHALL BE SPACED AT 1000 CTS MAXIMUM. S6. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO
- SPREAD CONCRETE S7. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. S8. NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS
- SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE S9. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO APPROVAL OF THE
- ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE SCABBLED OVER THE WHOLE FACE AND ANY LINSOLIND MATERIAL REMOVED S10. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY; IT IS NOT NECESSARILY SHOWN IN
- TRUE PROJECTION. S11. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN OR AS APPROVED BY THE ENGINEER. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE
- SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT AS SPECIFIED IN AS3600. COGS AND HOOKS SHALL BE STANDARD UNLESS SHOWN OTHERWISE. S12. WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON THE
- STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER. S13. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER. S14. REINFORCEMENT SYMBOLS:
 - N DENOTES DEFORMED GRADE 500 NORMAL DUCTILITY REINFORCING BARS TO AS/NZS 4671
 - R DENOTES PLAIN ROUND GRADE 250 NORMAL DUCTILITY REINFORCING BARS TO AS/NZS 4671. SL - DENOTES DEFORMED GRADE 500 LOW DUCTILITY REINFORCING MESH
 - TO AS/NZS 4671. RL - DENOTES DEFORMED GRADE 500 LOW DUCTILITY REINFORCING MESH TO AS/NZS 4671
- L--TM DENOTES DEFORMED GRADE 500 LOW DUCTILITY TRENCH MESH TO AS/NZS 4671. S15. ALL REINFORCING FABRIC SHALL COMPLY WITH AS1303 AND AS1304 AND SHALL BE
- SUPPLIED IN FLAT SHEETS. S16. SPLICES IN FABRIC: THE OUTERMOST TRANSVERSE WIRES SHALL BE OVERLAPPED BY AT LEAST THE SPACING OF THESE TRANSVERSE WIRES PLUS 25 mm



N12 AT WIRE CENTRES x 1200 LONG

MINIMUM OVERLAP

S17. EXPOSED CORNERS SHALL BE 20 mm CHAMFERED UNO. S18. ALL REINFORCEMENT SHALL BE INSPECTED BY THE SUPERINTENDENT OR ENGINEER PRIOR TO PLACING CONCRETE.

S19. ALL SLAB CONCRETE TO BE CURED IN AN APPROVED MANNER FOR A MINIMUM OF 7 DAYS. S20. ALL FORMWORK AND PROPS FOR SLABS AND BEAMS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR PARTITIONS ON THE FLOOR. S21. ALL ABBREVIATIONS ARE IN ACCORDANCE WITH AS1100. S22. FORMWORK SHALL NOT BE STRIPPED UNTIL CONCRETE HAS ACHIEVED A MINIMUM

HIGHER LEVEL FORMS HAVE BEEN REMOVED. S23. WHERE A SUSPENDED SLAB IS TO BE SUPPORTED OFF A SUSPENDED SLAB BELOW, WRITTEN APPROVAL SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO ANY SITE WORKS.

STRENGTH OF 20 MPa. THE CONCRETE SLAB AND BEAMS SHALL BE TEMPORARLIY BACK PROPPED UNTIL THE CONCRETE HAS ACHIEVED 28 DAY STRENGTH AND ANY PROPPING TO

- M1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700.
- M2. THE DESIGN STRENGTH OF MASONRY SHALL BE AS FOLLOWS U.N.O.

EXPOSURE	MASONRY	MASONRY SALT	DURABILITY	MORTAR MIX	
CLASSIFICATION T0 AS 3600	COMPRESSIVE STRENGTH	RESISTANCE GRADE	CLASSIFICATION OF BUILT IN	GP PORTLAND CEMENT : LIME :	ťс
	MPa (f'm)		COMPONENTS	SAND	MPa
A1 / A2	> 6.3	General Purpose	R3 (Galvanised)	1.0 : 1.0 : 6.0	2.8
B1	> 6.3	General Purpose	R3 (Galvanised)	1.0 : 1.0 : 6.0	2.8
B2	> 6.7	Exposure	R4 (Stainless)	1.0 : 0.5 : 4.5	2.8

- M3. ALL MASONRY WALLS SUPPORTING SLABS AND BEAMS SHALL HAVE A PRE-GREASED TWO LAYER GALVANISED STEEL SLIP JOINT BETWEEN CONCRETE AND MASONRY.
- M4. ALL MASONRY WALLS SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN THE CONCRETE.
- M5. NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY 20 mm THICK CLOSED CELL POLYETHYLENE STRIP.
- M6. MASONRY SHALL BE ARTICULATED IN ACCORDANCE WITH TECHNICAL NOTE 61 FROM THE CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA. VERTICAL CONTROL JOINTS SHALL NOT EXCEED 5 METRES MAXIMUM CENTRES, AND 4 METRES MAXIMUM FROM CORNERS IN MASONRY WALLS, AND BETWEEN NEW & EXISTING BRICKWORK.
- M7. MASONARY RETAINING WALLS ARE TO BE BACKFILLED WITH EITHER OF THE FOLLOWING MATERIAL: - COARSE GRAINED SOIL WITH LOW SILT CONTENT
 - RESIDUAL SOIL CONTAINING STONES - FINE SILTY SAND
 - GRANULAR MATERIALS WITH LOW CLAY CONTENT

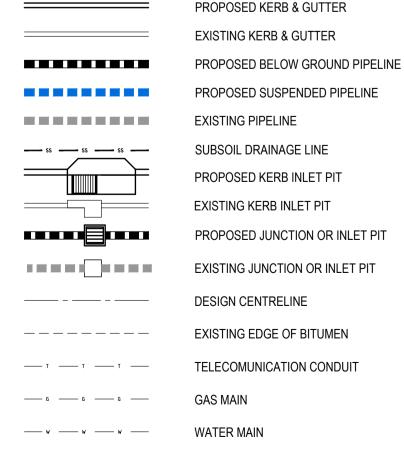
BLOCKWORK

- B1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700.
- B2. REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE FOLLOWING, UNO: - MORTAR: 1 CEMENT / 0.25 LIME / 3 SAND. PROVIDE CLEANOUT HOLES AT BASE OF WALL & ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FINS. - CORE FILLING: fc = 20 MPa, 10 AGG, 230 SLUMP +/- 30 mm.
- B3. BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL, UNO. PROVIDE SUBSOIL DRAIN BEHIND WALL AND AT WEEP HOLES.

- COVER: 55 mm MIN. FROM OUTSIDE OF BLOCKWORK.

- B4. VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT 10 m MAX. CENTRES.
- B5. NO ADMIXTURES SHALL BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

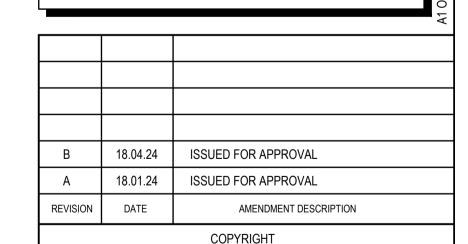
STANDARD LINE TYPES AND SYMBOLS:



SEWER MAIN ____ s ____ s ____ s ____ UNDERGROUND ELECTRICITY CABLES ____v ___v ___v ___ PERMANENT MARK & S.S.M. BENCH MARK, SURVEY STATION



SCHEDU	SCHEDULE OF DRAWINGS				
SHEET No	DESCRIPTION				
C01	GENERAL NOTES				
C02	SEDIMENT AND EROSION CONTROL PLAN				
C03	STORMWATER CATCHMENT AREA PLAN				
C04	STORMWATER DRAINAGE PLAN				
C05	EXTERNAL PAVEMENT PLAN AND DETAILS				
C06	STORMWATER DETAILS				
C07	BULK EARTHWORKS CUT AND FILL PLAN				
C08	SITE CROSS SECTION - SHT 1 OF 2				
C09	SITE CROSS SECTION - SHT 2 OF 2				



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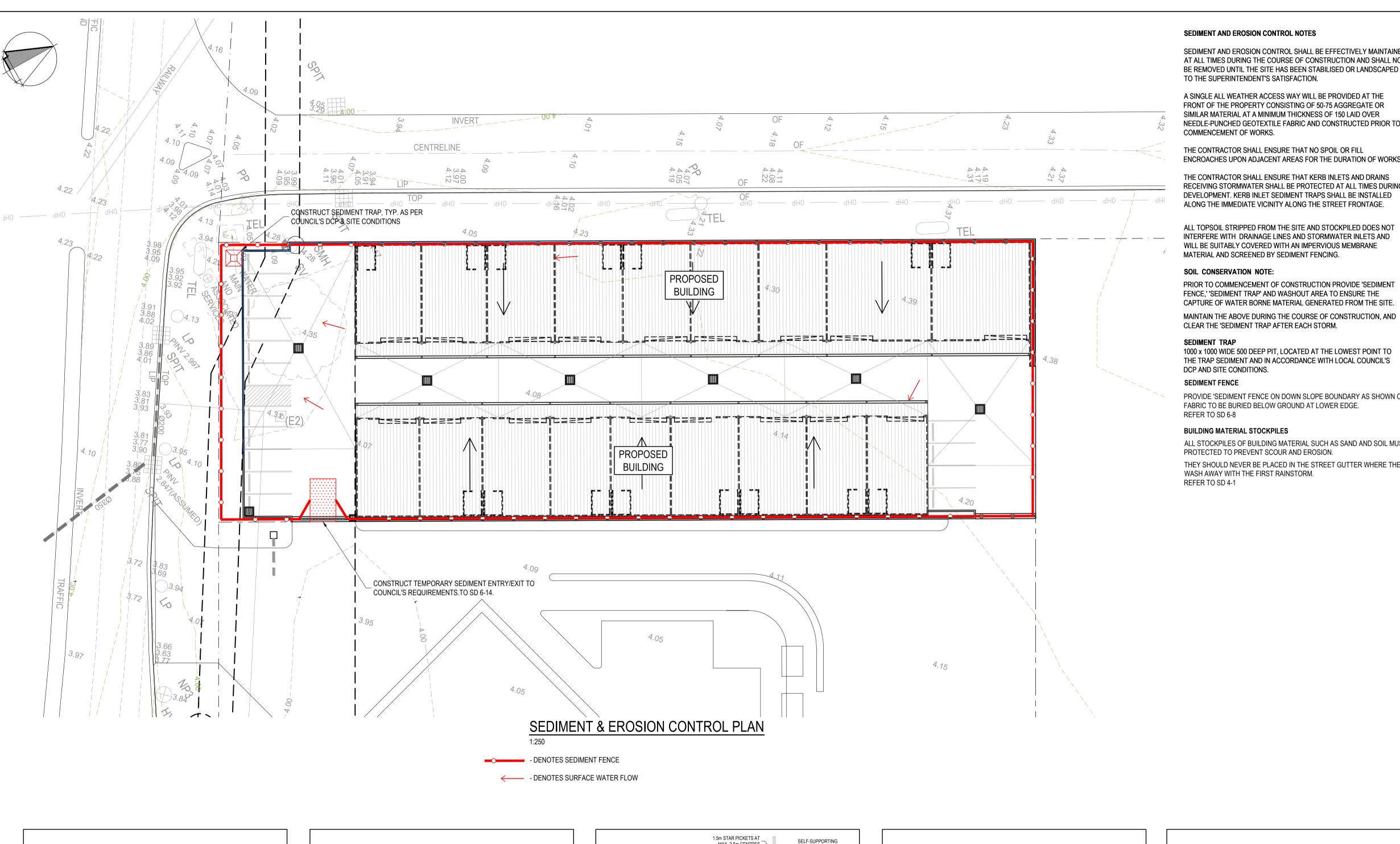
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PROPOSED INDUSTRIAL BUILDING 295 Cormorant Road, Kooragang

For Brown Commercial Building **GENERAL NOTES**

PROJECT No. DESIGN 10747 JAN 2024 SWH RCL SCALE CHECKED APPROVED DRG No.



SEDIMENT AND EROSION CONTROL NOTES

SEDIMENT AND EROSION CONTROL SHALL BE EFFECTIVELY MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL THE SITE HAS BEEN STABILISED OR LANDSCAPED TO THE SUPERINTENDENT'S SATISFACTION.

A SINGLE ALL WEATHER ACCESS WAY WILL BE PROVIDED AT THE FRONT OF THE PROPERTY CONSISTING OF 50-75 AGGREGATE OR SIMILAR MATERIAL AT A MINIMUM THICKNESS OF 150 LAID OVER NEEDLE-PUNCHED GEOTEXTILE FABRIC AND CONSTRUCTED PRIOR TO COMMENCEMENT OF WORKS.

THE CONTRACTOR SHALL ENSURE THAT NO SPOIL OR FILL ENCROACHES UPON ADJACENT AREAS FOR THE DURATION OF WORKS.

THE CONTRACTOR SHALL ENSURE THAT KERB INLETS AND DRAINS RECEIVING STORMWATER SHALL BE PROTECTED AT ALL TIMES DURING DEVELOPMENT. KERB INLET SEDIMENT TRAPS SHALL BE INSTALLED ALONG THE IMMEDIATE VICINITY ALONG THE STREET FRONTAGE.

ALL TOPSOIL STRIPPED FROM THE SITE AND STOCKPILED DOES NOT INTERFERE WITH DRAINAGE LINES AND STORMWATER INLETS AND WILL BE SUITABLY COVERED WITH AN IMPERVIOUS MEMBRANE MATERIAL AND SCREENED BY SEDIMENT FENCING.

SOIL CONSERVATION NOTE:

PRIOR TO COMMENCEMENT OF CONSTRUCTION PROVIDE 'SEDIMENT FENCE,' 'SEDIMENT TRAP' AND WASHOUT AREA TO ENSURE THE CAPTURE OF WATER BORNE MATERIAL GENERATED FROM THE SITE.

CLEAR THE 'SEDIMENT TRAP AFTER EACH STORM.

SEDIMENT TRAP

1000 x 1000 WIDE 500 DEEP PIT, LOCATED AT THE LOWEST POINT TO THE TRAP SEDIMENT AND IN ACCORDANCE WITH LOCAL COUNCIL'S DCP AND SITE CONDITIONS.

SEDIMENT FENCE

PROVIDE 'SEDIMENT FENCE ON DOWN SLOPE BOUNDARY AS SHOWN ON PLAN. FABRIC TO BE BURIED BELOW GROUND AT LOWER EDGE.

BUILDING MATERIAL STOCKPILES

ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND SOIL MUST BE PROTECTED TO PREVENT SCOUR AND EROSION.

THEY SHOULD NEVER BE PLACED IN THE STREET GUTTER WHERE THEY WILL WASH AWAY WITH THE FIRST RAINSTORM.

GENERAL NOTES

UNO (UNLESS NOTED OTHERWISE).

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES,

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE

DURING EXCAVATION WORK THE STRUCTURE SHALL BE MAINTAINED IN A STABLE AND NO PART SHALL BE OVERSTRESSED.

ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE SPECIFICATION.

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF

ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACK FILLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL

ALL TRENCH BACK FILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS UNLESS DIRECTED OTHERWISE.

STORMWATER DRAINAGE

THE STORMWATER DRAINAGE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3 - 1990 "STORMWATER DRAINAGE" & AS/NZS 3500.3.2-1998 "STORMWATER DRAINAGE - ACCEPTABLE SOLUTIONS".

ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO ENGINEER IMMEDIATELY.

ANY VARIATIONS TO SPECIFIED PRODUCTS OR DETAILS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL.

DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR 100X100 COLORBOND/ZINCALUME STEEL, UNO.

BOX COLORBOND OR ZINCALUME STEEL. GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP.

EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA) COLORBOND OR ZINCALUME STEEL.

SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.

WASHOUT AREA TO BE 1800 x 1800 ALLOCATED FOR THE WASHING OF TOOL & EQUIPMENT.



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PROJECT No.

DRG No.

10747

SEDIMENT AND EROSION CONTROL PLAN

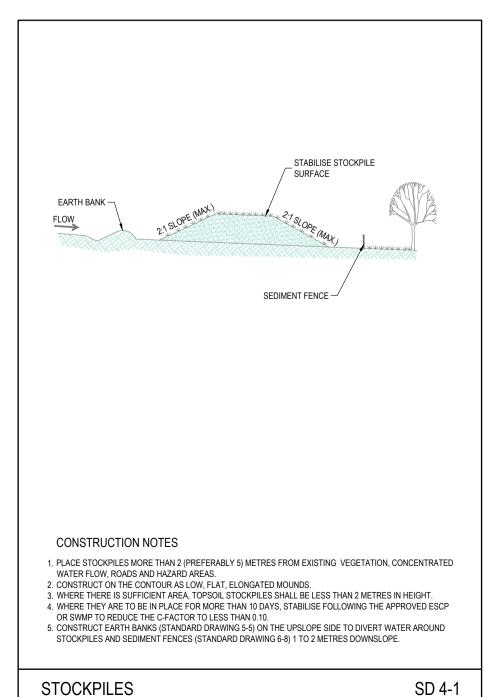
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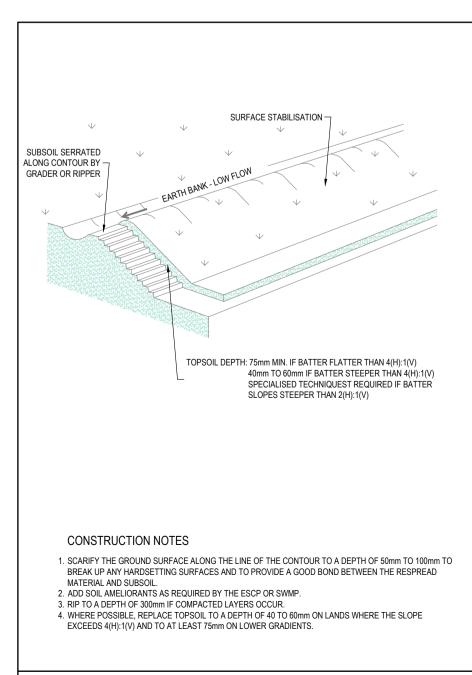
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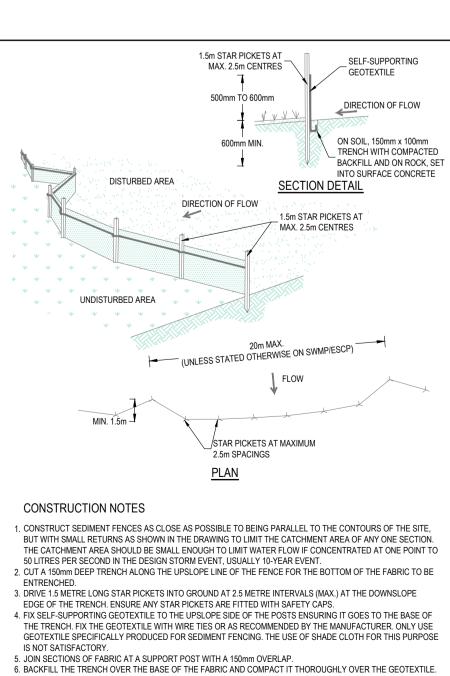
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APPROVED

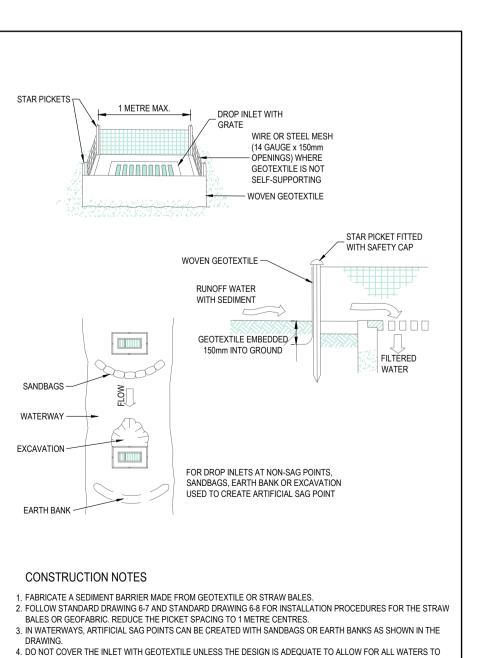




REPLACING TOPSOIL

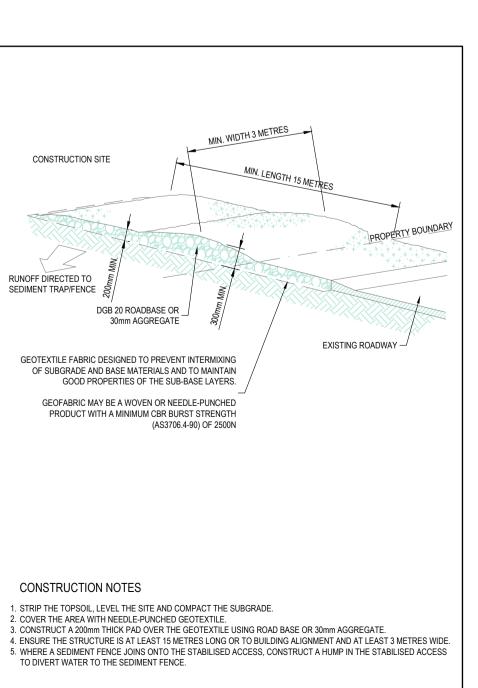


SEDIMENT FENCE

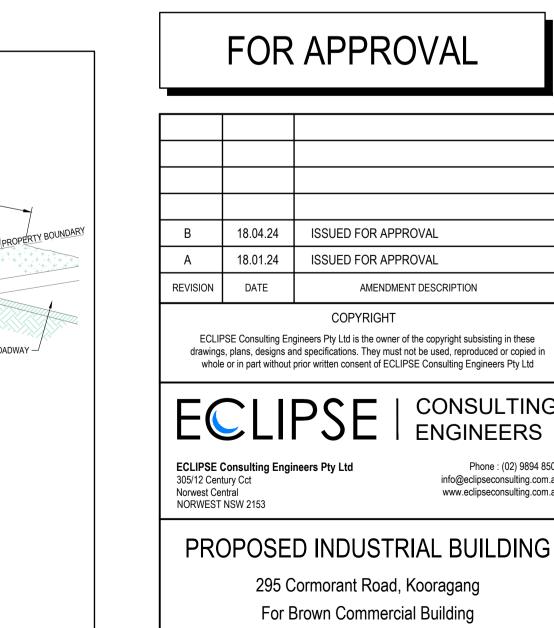


SD 6-12

GEOTEXTILE INLET FILTER



STABILISED SITE ACCESS



DESIGN

CHECKED

SWH

SD 6-14



STORMWATER DRAINAGE STRATEGY

- ALL GUTTERS & DOWNPIPES ARE DESIGNED TO ACCEPT A 1:20 YEAR ARI STORM EVENT
- BOX GUTTERS & DOWNPIPES ARE DESIGNED TO ACCEPT A 1:100 YEAR ARI STORM EVENT
- ALL PITS & PIPES ARE DESIGNED TO ACCEPT A 1:20 YEAR ARI STORM EVENT
- DESIGN RAINFALL INTENSITIES:
- 1:20 YEAR, 5 MIN = 179 mm/hr
- ALL PIPES MUST HAVE A MIN. 1.0% FALL, UNLESS SPECIFIED OTHERWISE
- ALL STORMWATER RUNOFF IS DIRECTED TO A SQID PRIOR TO EXITING THE SITE.
- ON-SITE DETENTION HAS BEEN PROVIDED FOR THE DEVELOPMENT AS PER NEW CASTLE CITY COUNCIL'S
- HAVE BEEN CATERED FOR AT DOWNSTREAM DURING THE DESIGN AND CONSTRUCTION OF THE
- DOWNSTREAM DEVELOPMENT AS PER R.J. SINCLAIR PTY LTD BUILDING DESIGN CIVIL DRAWINGS.
- THE STORMWATER QUALITY TREATMENT SYSTEM (HUMECEPTOR AND HUMES JELLYFISH FILTER SYSTEM) HAVE BEEN INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH R.J. SINCLAIR PTY LTD BUILDING DESIGN
- SQID'S USED ON THIS SITE INCLUDE:
- BELOW GROUND OSD TANK

FOR APPROVAL

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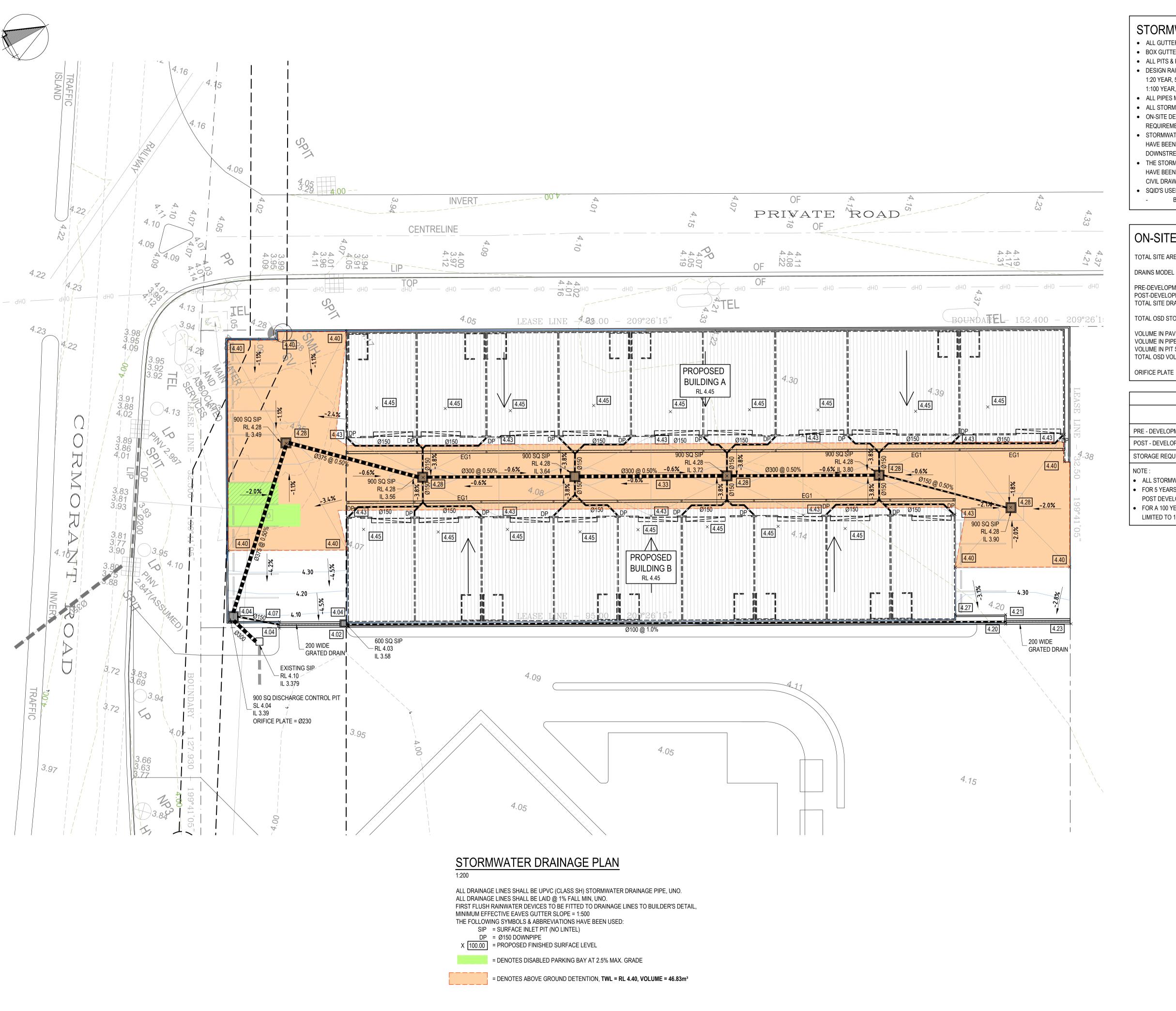
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PROPOSED INDUSTRIAL BUILDING

295 Cormorant Road, Kooragang For Brown Commercial Building

STORMWATER CATCHMENT AREA PLAN

DESIGN SWH	DRAWN RCL	DATE JAN 2024	PROJECT №. 10747
CHECKED	APPROVED	SCALE 1:200	DRG No. C03 - B



STORMWATER DRAINAGE STRATEGY

- ALL GUTTERS & DOWNPIPES ARE DESIGNED TO ACCEPT A 1:20 YEAR ARI STORM EVENT
- BOX GUTTERS & DOWNPIPES ARE DESIGNED TO ACCEPT A 1:100 YEAR ARI STORM EVENT
- ALL PITS & PIPES ARE DESIGNED TO ACCEPT A 1:20 YEAR ARI STORM EVENT
- DESIGN RAINFALL INTENSITIES:

 1:20 YEAR 5 MIN = 170 years/br
- 1:20 YEAR, 5 MIN = 179 mm/hr 1:100 YEAR, 5 MIN = 232 mm/hr
- ALL PIPES MUST HAVE A MIN. 1.0% FALL, UNLESS SPECIFIED OTHERWISE
- ALL STORMWATER RUNOFF IS DIRECTED TO A SQID PRIOR TO EXITING THE SITE
- ON-SITE DETENTION HAS BEEN PROVIDED FOR THE DEVELOPMENT AS PER NEW CASTLE CITY COUNCIL'S REQUIREMENTS
- STORMWATER QUALITY TREATMENT SYSTEM IS NOT REQUIRED FOR THE PROPOSED DEVELOPMENT AS IT HAVE BEEN CATERED FOR AT DOWNSTREAM DURING THE DESIGN AND CONSTRUCTION OF THE
- DOWNSTREAM DEVELOPMENT AS PER R.J. SINCLAIR PTY LTD BUILDING DESIGN CIVIL DRAWINGS.

 THE STORMWATER QUALITY TREATMENT SYSTEM (HUMECEPTOR AND HUMES JELLYFISH FILTER SYSTEM)
- HAVE BEEN INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH R.J. SINCLAIR PTY LTD BUILDING DESIGN CIVIL DRAWINGS.
- SQID'S USED ON THIS SITE INCLUDE:
- BELOW GROUND OSD TANK

ON-SITE DETENTION DESIGN SUMMARY

TOTAL SITE AREA ON DP = 3,090 m²

DRAINS MODEL HAS BEEN PREPARED FOR CALCULATION OF PRE & POST DEVELOPMENT FLOWS.

PRE-DEVELOPMENT IMPERVIOUS AREA $= 0 \text{ m}^2 (0\% \text{ OF SITE})$ POST-DEVELOPMENT IMPERVIOUS AREA $= 2,860 \text{ m}^2 (92.6\%)$ TOTAL SITE DRAINING TO OSD = 92.6%

ORIFICE PLATE = Ø230 mm

PRE & POST DEVELOPMENT FLOWS					
	5 YEAR ARI	10 YEAR ARI	20 YEAR ARI	50 YEAR ARI	100 YEAR ARI
PRE - DEVELOPMENT FLOW (I/s)	63	77	98	118	134
POST - DEVELOPMENT FLOW (I/s)	63	76	89	92	101
STORAGE REQUIRED (m³)	33.8	38.5	43.2	49.1	56.0

- ALL STORMWATER RUNOFF WILL BE DISCHARGE INTO THE EXISTING PIT WITH A EXISTING Ø375 OUTLET PIPE.
 FOR 5 YEARS UP TO 50 YEARS ARI STORM EVENT, THE STORMWATER DISCHARGE FLOW MUST BE LIMITED TO
- POST DEVELOPMENT EQUAL OR LESS THAN PRE-DEVELOPMENT FLOW.
- FOR A 100 YEAR ARI STORM EVENT ALL STORMWATER RUNOFF FROM PROPOSED DEVELOPMENT MUST BE LIMITED TO 108 L/s. (LIMITED TO THE DISCHARGE FLOW FROM THE EXISTING PIT WITH Ø375 PIPE)

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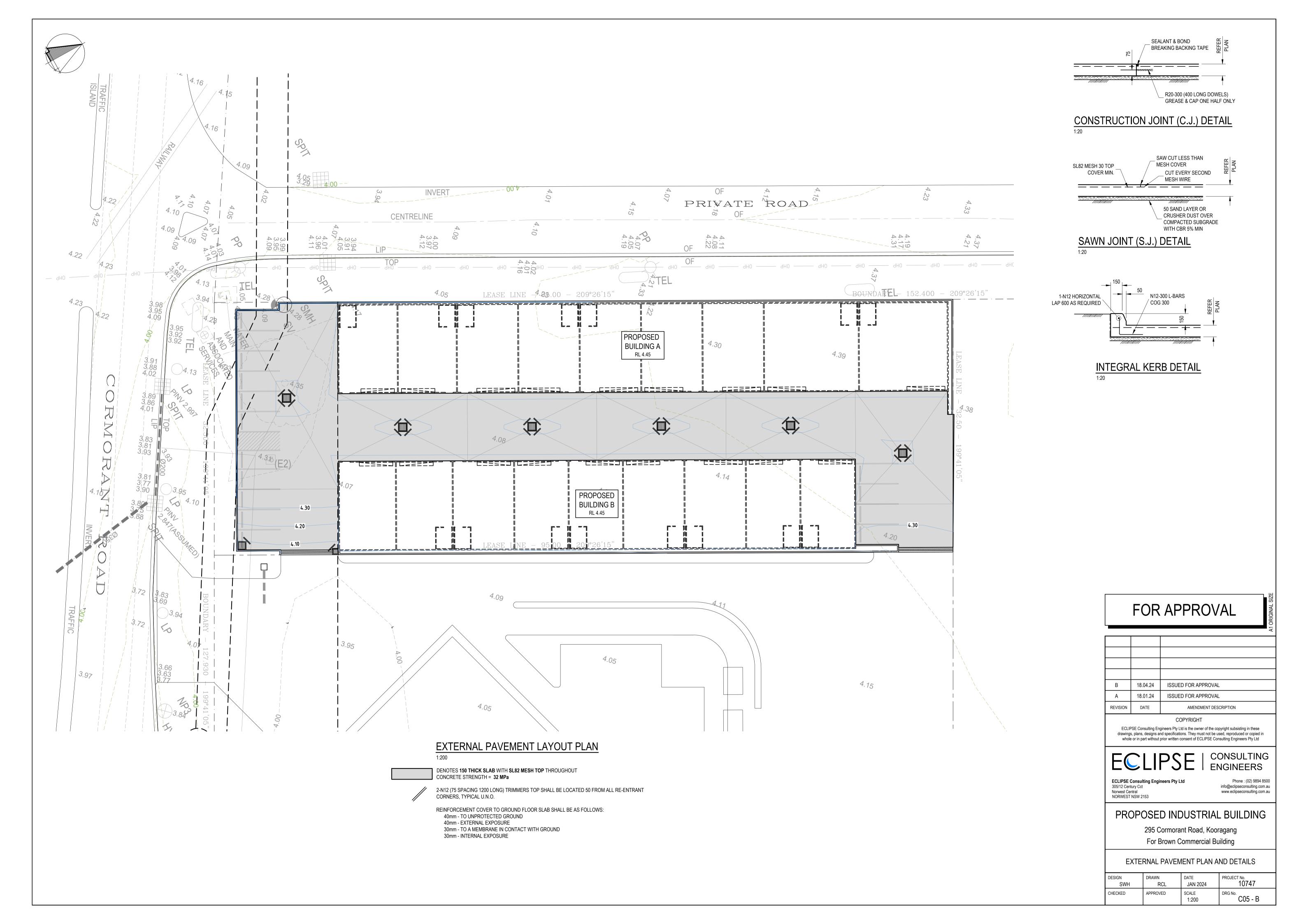
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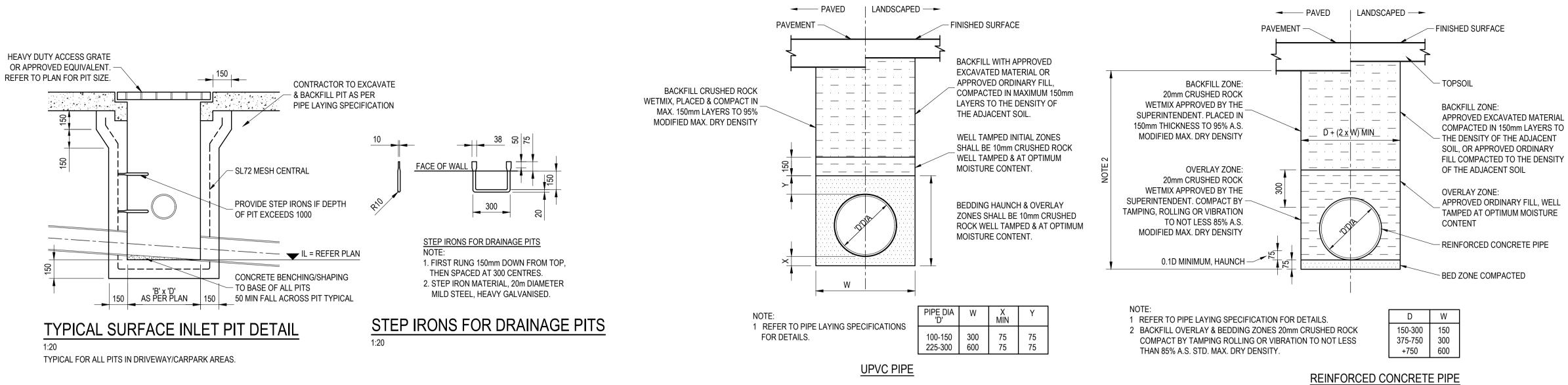
PROPOSED INDUSTRIAL BUILDING

295 Corrmorant Road, Kooragang For Brown Commercial Building

STORMWATER DRAINAGE PLAN

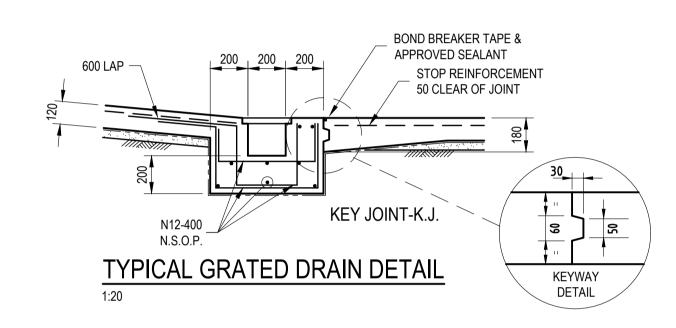
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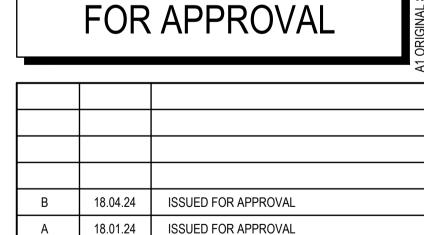




TYPICAL PIPE LAYING DETAIL

1:20





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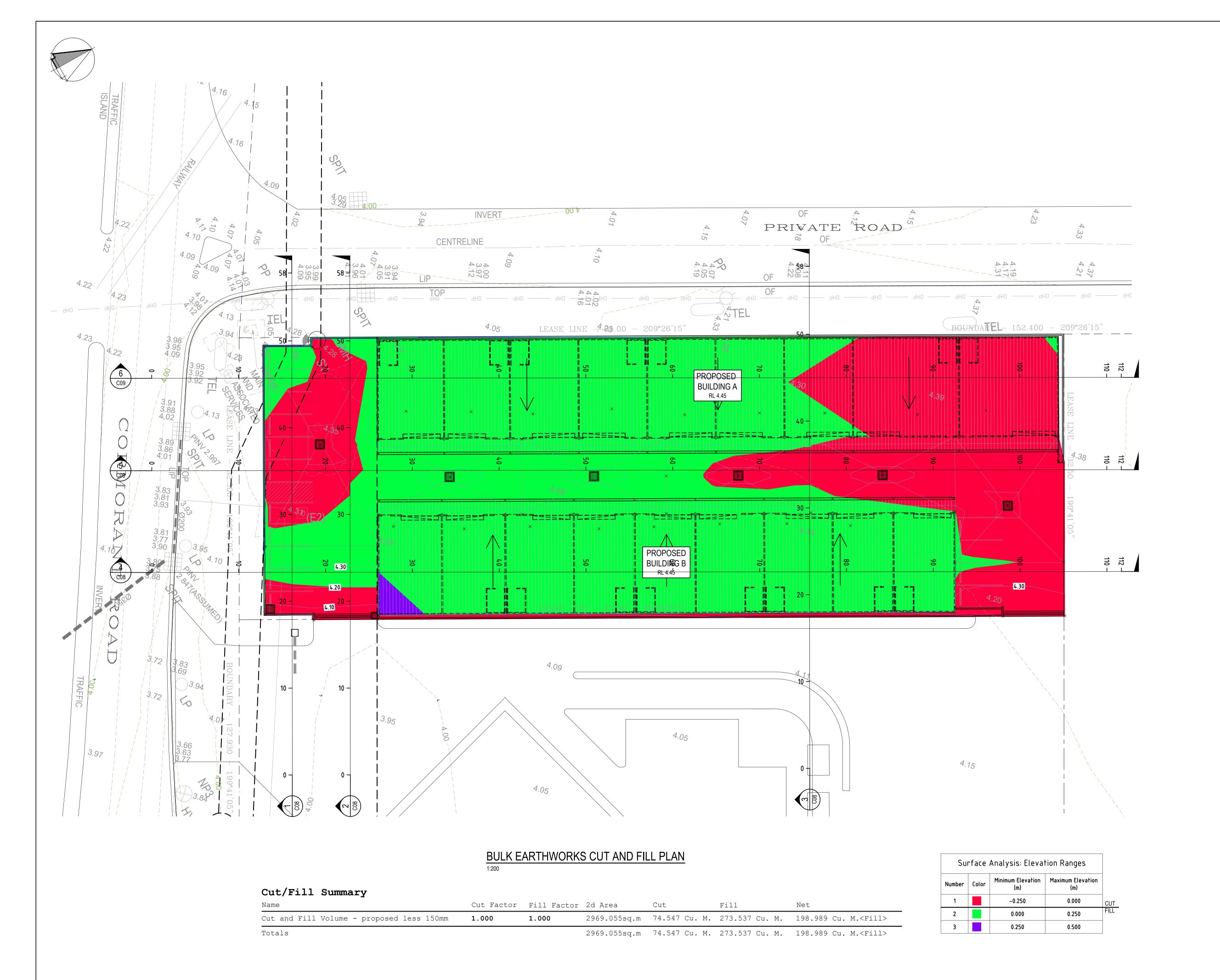
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PROPOSED INDUSTRIAL BUILDING

295 Cormorant Road, Kooragang For Brown Commercial Building

STORMWATER DETAILS

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PROPOSED INDUSTRIAL BUILDING

295 Cromorant Road, Kooragang For Brown Commercial Building

BULK EARTHWORKS CUT AND FILL PLAN

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								Τ -	
VERT EXAG Datum 0.000									
DESIGN LEVELS			4.126	4.361	876.4	7.338			
EXISTING LEVEL	LS 7.017	4.026	4.046	4.277	706.4	4.302	4.081	4.082	4.011
DEPTH			0.070	0.084	0.044	0.036			
CHAINAGE	0.000	10.000	18.329	30.000	31.246	000:07	20.000	50.336	57.816

SECTION 1 1:200 C07

						•
VERT EXAG 1:1 Datum 0.000						
DESIGN LEVELS		4.124	4.361	4.349	7.400	
EXISTING LEVELS 6:	3.979	4.037	4.162	4.244	4.228	500 7
DEPTH		0.087	0.200	0.105	0.172	
CHAINAGE 000	10.000	20.000	30.000	00000	50.000	57 816

SECTION 2 1:200 C07

						
VERT EXAG 1:1 Datum 0.000						
DESIGN LEVELS		7.450	704.4	057.7		
EXISTING LEVELS &	4.114	4.132	4.174	4.272	4.270	4.145
DEPTH		0.318	0.232	0.178		
CHAINAGE 8	10.000	20.000	30.000	!	49.895	57.816

SECTION 3
1:200 C07

												. — — —
VERT EXAG 1:1 Datum 0.000												
DESIGN LEVELS		4.273	7.450	7.450	7.450	4.450	7.450	7.450	4.450	4.361	4.278	
EXISTING LEVELS 8.8	4.092	790.7	4.071	4.081	780.4	4.079	4.116	4.151	4.192	4.243	4.265	4.286
DEPTH		0.209	0.379	0.369	0.366	0.371	0.334	0.299	0.258	0.118	0.013	
CHAINAGE 00.	10.000	20.000	30.000	70000	20.000	60.000	70.000	000.08	000.06	00.000	105.155	110.000

SECTION 4
1:200 C07

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PROPOSED INDUSTRIAL BUILDING

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SITE CROSS SECTION - SHT 1 OF 2

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CHECKED	APPROVED	SCALE 1:100	DRG No. C08 - B

												$ -$
VERT EXAG 1:1 Datum 0.000												
DESIGN LEVELS		4.316	4.304	4.313	4.283	4.325	4.292	4.303	4.316	4.332	4.384	
EXISTING LEVELS 8	4.177	4.267	860.4	060.4	4.104	4.127	4.187	4.237	4.301	4.339	4.357	4.382
DEPTH		0.049	0.206	0.223	0.179	0.198	0.106	0.066	0.015	-0.007	0.027	
CHAINAGE 8	10.000	20.000	30.000	40.000	50.000	000.09	70.000	80.000	90.000	100.000	105.155	110.000

VERT EXAG 1:1 Datum 0.000													
DESIGN LEVELS		658.4	4.450	4.450	4.450	7.450	4.450	4.450	4.450	4.450	4.450	4.430	
EXISTING LEVELS 7	•1	4.292	4.188	4.148	4.078	4.169	4.195	4.258	4.329	4.382	4.365	4.321	185.4
DEPTH		790.0	0.262	0.302	0.372	0.281	0.255	0.192	0.121	0.068	0.085	0.109	
CHAINAGE	10.000	10.155	26.021	30.000	40.000	50.000	000.090	70.000	80.000	90.000	100.000	104.432	110.000



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PROPOSED INDUSTRIAL BUILDING

295 Cormorant Road, Kooragang For Brown Commercial Building

SITE CROSS SECTION - SHT 2 OF 2

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