STATE SIGNIFICANT DEVELOPMENT APPLICATION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW, 2148
CIVIL WORKS PACKAGE

DRAWING LIST

DRAWING NO.	DRAWING TITLE
GENERAL:	
C013904.03-SSDA 100	DRAWING LIST & GENERAL NOTES
C013904.03-SSDA 150	EXISTING SERVICES PLAN
C013904.03-SSDA 155	EASEMENTS KEY PLAN
C013904.03-SSDA 190	TEMPORARY CONSTRUCTION ACCESS ROAD AND CROSSINGS
EROSION & SEDIMENT CONTROL:	
C013904.03-SSDA 200	EROSION AND SEDIMENT CONTROL ENGINEERING NOTES
C013904.03-SSDA 201	EROSION AND SEDIMENT CONTROL PLAN - STAGE 1
C013904.03-SSDA 202	EROSION AND SEDIMENT CONTROL PLAN - STAGE 2
C013904.03-SSDA 250	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 1
C013904.03-SSDA 251	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 2
EARTHWORKS PLAN:	
C013904.03-SSDA 300	BULK EARTHWORKS PLAN
C013904.03-SSDA 310	CUT & FILL PLAN
C013904.03-SSDA 350	BULK EARTHWORKS SECTIONS - SHEET 1
C013904.03-SSDA 351	BULK EARTHWORKS SECTIONS - SHEET 2
C013904.03-SSDA 352	BULK EARTHWORKS SECTIONS - SHEET 3
INFRASTRUCTURE DRAINAGE:	
C013904.03-SSDA 400	STORMWATER DRAINAGE KEY PLAN
C013904.03-SSDA 401	STORMWATER DRAINAGE PLAN - WAREHOUSE 1 & 2
C013904.03-SSDA 402	STORMWATER DRAINAGE PLAN - WAREHOUSE 3
C013904.03-SSDA 403	STORMWATER DRAINAGE PLAN - WAREHOUSE 4
C013904.03-SSDA 404	STORMWATER DRAINAGE PLAN - WAREHOUSE 5 GROUND FLOOR
C013904.03-SSDA 410	BLACKTOWN CREEK REALIGNMENT PLAN
C013904.03-SSDA 415	WESTERN SWALE PLAN
C013904.03-SSDA 431	STORMWATER DRAINAGE PIPE NETWORK - WAREHOUSE 1 & 2
C013904.03-SSDA 432	STORMWATER DRAINAGE PIPE NETWORK - WAREHOUSE 3
C013904.03-SSDA 433	STORMWATER DRAINAGE PIPE NETWORK - WAREHOUSE 4
C013904.03-SSDA 434	STORMWATER DRAINAGE PIPE NETWORK - WAREHOUSE 5
C013904.03-SSDA 450	STORMWATER DRAINAGE DETAILS - SHEET 1
C013904.03-SSDA 451	STORMWATER DRAINAGE DETAILS - SHEET 2
C013904.03-SSDA 452	STORMWATER DRAINAGE DETAILS - SHEET 3
C013904.03-SSDA 453	STORMWATER DRAINAGE DETAILS - SHEET 4
C013904.03-SSDA 454	STORMWATER DRAINAGE DETAILS - SHEET 5
C013904.03-SSDA 455	STORMWATER DRAINAGE DETAILS - SHEET 6
C013904.03-SSDA 456	STORMWATER DRAINAGE DETAILS - SHEET 7
C013904.03-SSDA 457	STORMWATER DRAINAGE DETAILS - SHEET 8
C013904.03-SSDA 458	STORMWATER DRAINAGE DETAILS - SHEET 9
C013904.03-SSDA 459	TYPICAL CLAY CORE DETAIL
C013904.03-SSDA 460	STORMWATER MANAGEMENT LAYOUT & TYPICAL SECTIONS KEY PLAN
C013904.03-SSDA 461	TYPICAL BELOW GROUND OSD & WATER QUALITY TANK DETAIL
C013904.03-SSDA 462	ABOVE GROUND BIORETENTION AND OSD BASIN DETAILS - LOT 3
C013904.03-SSDA 463	ABOVE GROUND BIORETENTION AND OSD BASIN DETAILS - LOT 4
C013904.03-SSDA 464	LOT 1 BELOW GROUND OSD TANK DETAIL
C013904.03-SSDA 465	TYPICAL OSD BASIN CONTROL & DISCHARGE PIT DETAIL

DRAWING LIST

DRAWING NO.	DRAWING TITLE
C013904.03-SSDA 466	TYPICAL WETLAND DETAIL
C013904.03-SSDA 467	WETLAND LOW-FLOW ROCKWALL DETAIL AND SECTION
C013904.03-SSDA 470	PRE DEVELOPMENT STORMWATER CATCHMENT PLAN
C013904.03-SSDA 471	POST DEVELOPMENT STORMWATER CATCHMENT PLAN
C013904.03-SSDA 472	ESTIMATED STORAGE CATCHMENT PLAN
C013904.03-SSDA 473	STORMWATER MUSIC CATCHMENT PLAN
FINISHED LEVELS:	
C013904.03-SSDA 500	FINISHED LEVELS KEY PLAN
C013904.03-SSDA 501	FINISHED LEVELS PLAN - WAREHOUSE 1 & 2
C013904.03-SSDA 502	FINISHED LEVELS PLAN - WAREHOUSE 3
C013904.03-SSDA 503	FINISHED LEVELS PLAN - WAREHOUSE 4
C013904.03-SSDA 504	FINISHED LEVELS PLAN - WAREHOUSE 5 GROUND FLOOR
C013904.03-SSDA 550	KEY SECTIONS PLAN
C013904.03-SSDA 551	BLACKTOWN CREEK SECTIONS - SHEET 1
C013904.03-SSDA 552	BLACKTOWN CREEK SECTIONS - SHEET 2
C013904.03-SSDA 553	WESTERN SWALE SECTIONS - SHEET 1
C013904.03-SSDA 555	TYPICAL CROSS SECTIONS - TRANSMISSION TOWERS- SHEET 1
C013904.03-SSDA 556	TYPICAL CROSS SECTIONS - TRANSMISSION TOWERS- SHEET 2
C013904.03-SSDA 557	OVERHEAD SERVICES
C013904.03-SSDA 558	TYPICAL SECTION THROUGH GREAT WESTERN HIGHWAY
RETAINING WALLS:	
C013904.03-SSDA 600	RETAINING SETOUT PLAN
C013904.03-SSDA 601	RETAINING WALL PLAN - WAREHOUSE 1,2 & WESTERN SWALE
C013904.03-SSDA 602	RETAINING WALL PLAN - WAREHOUSE 3 & WESTERN SWALE
C013904.03-SSDA 603	RETAINING WALL PLAN - WAREHOUSE 4 & BLACKTOWN CREEK
C013904.03-SSDA 604	RETAINING WALL PLAN - WAREHOUSE 5 & BLACKTOWN CREEK
C013904.03-SSDA 650	TYPICAL RETAINING WALL DETAILS - SHEET 1
C013904.03-SSDA 651	TYPICAL RETAINING WALL DETAILS - SHEET 2
C013904.03-SSDA 652	TYPICAL RETAINING WALL DETAILS - SHEET 3
ROADWORKS:	
C013904.03-SSDA 700	ROADWORKS GENERAL ARRANGEMENT PLAN
C013904.03-SSDA 711	ROADWORKS CIVIL WORKS PLAN - SHEET 1
C013904.03-SSDA 712	ROADWORKS CIVIL WORKS PLAN - SHEET 2
C013904.03-SSDA 713	ROADWORKS CIVIL WORKS PLAN - SHEET 3
C013904.03-SSDA 721	ROADWORKS LONG SECTIONS FLUSHCOMBE ROAD
C013904.03-SSDA 730	ROADWORKS CROSS SECTIONS - FLUSHCOMBE ROAD - SHEET 1
C013904.03-SSDA 731	ROADWORKS CROSS SECTIONS - FLUSHCOMBE ROAD - SHEET 2
C013904.03-SSDA 732	ROADWORKS CROSS SECTIONS - FLUSHCOMBE ROAD - SHEET 3
C013904.03-SSDA 733	ROADWORKS CROSS SECTIONS - AUGUSTA STREET - SHEET 1
C013904.03-SSDA 734	ROADWORKS CROSS SECTIONS - AUGUSTA STREET - SHEET 2
C013904.03-SSDA 735	ROADWORKS CROSS SECTIONS - AUGUSTA STREET - SHEET 3
C013904.03-SSDA 750	ROADWORKS TYPICAL SECTIONS
C013904.03-SSDA 755	ROADWORKS TYPICAL DETAILS
C013904.03-SSDA 756	PROPOSED AUGUSTA STREET CULVERT CROSSING



LOCALITY PLAN
N.T.S

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER 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.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE.
   ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
   ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT. REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.
4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
5. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
6. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS & APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF THE JOB.

ELECTRONIC INFORMATION NOTES:

1. THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
2. THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE TO UNDERTAKE THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
4. THE ENGINEER WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	07.05.24	F
REVISED AS CLOUDED	13.03.24	E
REVISED AS CLOUDED	08.03.24	D
REVISED AS CLOUDED	08.09.23	C
REVISED AS CLOUDED	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	G

ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA100

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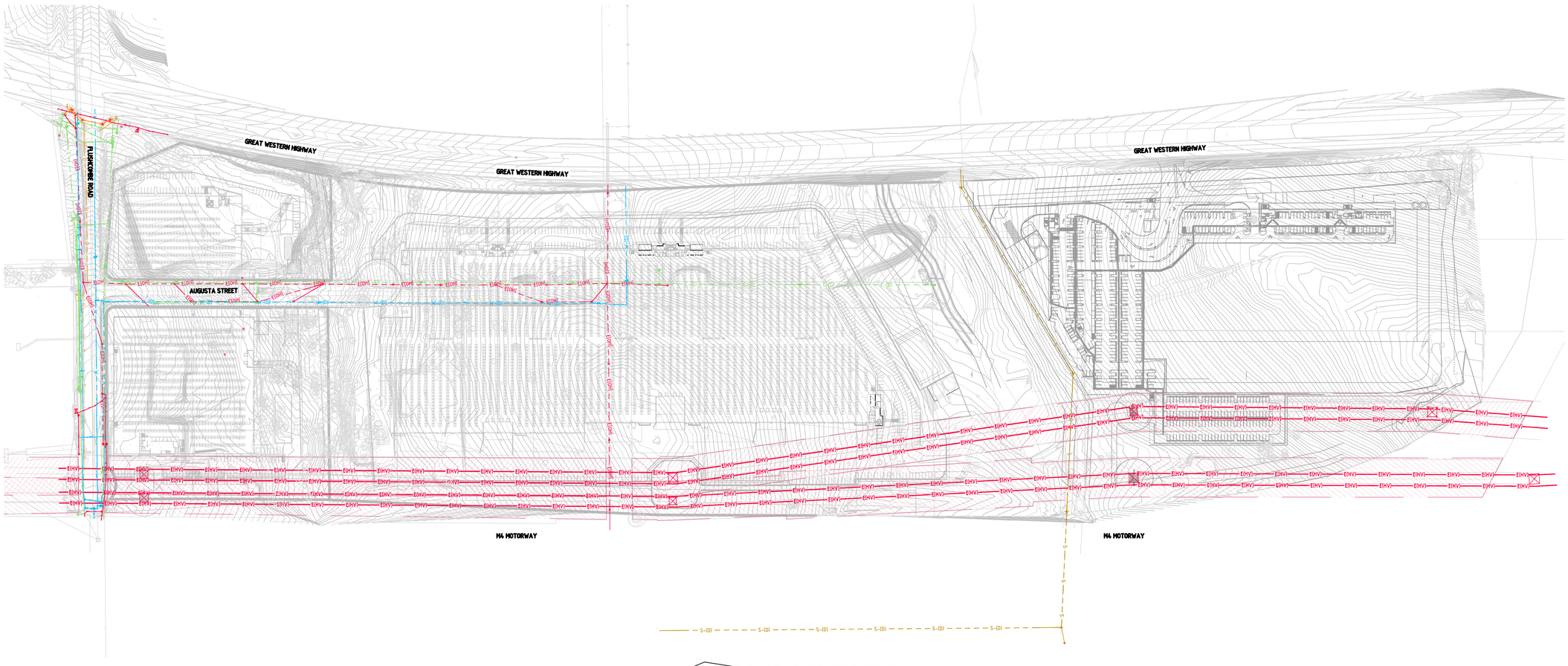
DRAWING TITLE: DRAWING LIST & GENERAL NOTES
DRAWING No: C013904.03-SSDA100
ISSUE: G

EXISTING SERVICES NOTES:

1. DURING THE EXECUTION OF WORKS, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SERVICES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED TO THE EXISTING SERVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY, AT NO COST TO THE PRINCIPAL.
2. WHERE IT IS NECESSARY TO REMOVE, DIVERT OR CUT INTO ANY EXISTING SERVICE, THE CONTRACTOR SHALL GIVE AT LEAST THREE (3) DAYS NOTICE OF ITS REQUIREMENTS TO THE SUPERINTENDENT, WHO WILL ADVISE WHAT ARRANGEMENTS SHOULD BE MADE FOR THE ALTERATION OF SUCH EXISTING WORKS.
3. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE ACCURACY IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. ALL CLEARANCES AND APPROVALS SHALL ALSO BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL NEW AND EXHUMED SERVICES THAT CROSS EXISTING AND FUTURE ROADS/PAVEMENTS WITHIN THE SITE SHALL BE BACKFILLED WITH DGB20 MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 98% STANDARD DENSITY RATIO. SUBJECT TO PRIOR APPROVAL FROM RELEVANT AUTHORITY.
5. ON COMPLETION OF SERVICES INSTALLATION. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
6. CARE TO BE TAKEN WHEN EXCAVATING NEAR UTILITY SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER SERVICES. LIAISE WITH RELEVANT AUTHORITY.
7. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
8. THE CONTRACTOR IS TO MAINTAIN EXISTING STORMWATER DRAINAGE FLOWS THROUGH THE ROADS AT ALL TIMES. MAKE DUE ALLOWANCE FOR ALL SUCH FLOWS AT ALL TIMES.
9. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
10. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES AS REQUIRED TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
11. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE OR DAMAGE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
12. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

LEGEND:

- D – EXISTING STORMWATER PIPE
- W – EXISTING WATER PIPE
- E(OH) – EXISTING ELEC. CABLE (OVERHEAD)
- E – EXISTING ELEC. CABLE (U/G)
- E(HV) E(HV) – EXISTING ELEC. CABLE (HIGH VOLTAGE)
- C – EXISTING COMMUNICATIONS CABLE
- S – EXISTING SEWER LINE



EXISTING SERVICES KEY PLAN
SCALE 1:1500

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

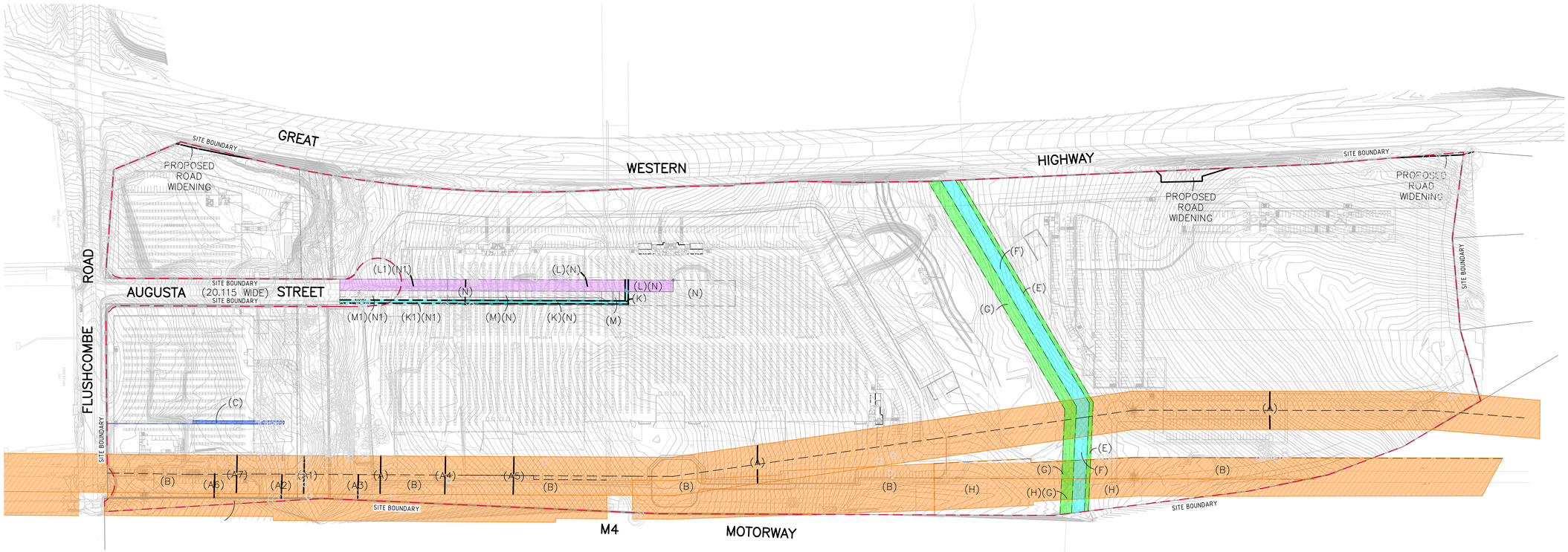
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LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904 03-SSDA150

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DRAWING TITLE: EXISTING SERVICES KEY PLAN

DRAWING No: C013904.03-SSDA150 ISSUE: A



EASEMENTS KEY PLAN
SCALE 1:1500

LEGEND:

- EASEMENT FOR DRAINAGE
- EASEMENT FOR WATER SUPPLY
- EASEMENT FOR OVERHEAD POWERLINES
- EASEMENT FOR CONSTRUCTION
- EASEMENT FOR TRANSMISSION LINES

(A1) EASEMENT FOR TRANSMISSION LINE 30 WIDE (R730705)
(A2) EASEMENT FOR TRANSMISSION LINE (J983245)
(A3) EASEMENT FOR TRANSMISSION LINE (J983234)
(A4) EASEMENT FOR TRANSMISSION LINE (T722919)
(A5) EASEMENT FOR TRANSMISSION LINE (T536159)
(A6) EASEMENT FOR TRANSMISSION LINE (K116727)
(A7) EASEMENT FOR TRANSMISSION LINE (V378957)
(A) PROPOSED EASEMENT FOR TRANSMISSION LINE 30 WIDE (DP604009)
(B) EASEMENT FOR TRANSMISSION LINE VARIABLE WIDTH (J946973)
(C) PROPOSED DRAINAGE EASEMENT 2.44 WIDE (DP8716)(A392054)
(E) EASEMENT FOR CONSTRUCTION 3 WIDE (DP1216918)
(F) EASEMENT FOR WATER SUPPLY PURPOSES 10 WIDE (DP1216918)
(G) EASEMENT FOR CONSTRUCTION 9 WIDE (DP1216918)
(H) EASEMENT FOR TRANSMISSION LINE (K116733)
(K) EASEMENT FOR WATER SUPPLY PURPOSES 2.5 WIDE (DP1263824)
(L) EASEMENT FOR OVERHEAD POWER LINES 9 WIDE (DP1263824)
(M) RIGHT OF ACCESS 5 WIDE & VARIABLE (DP1263824)
(N) PROPOSED RIGHT OF ACCESS 20.115 WIDE (DP1263824)
(L1) EASEMENT FOR OVERHEAD POWERLINES 9 WIDE (DP1300050)
(N1) PROPOSED RIGHT OF ACCESS 20.115 WIDE
(M1) RIGHT OF ACCESS 5 WIDE (DP1300050)
(K1) EASEMENT FOR WATER SUPPY PURPOSES 2.5 WIDE (DP1300050)

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	A

AMENDMENTS	DATE	ISSUE

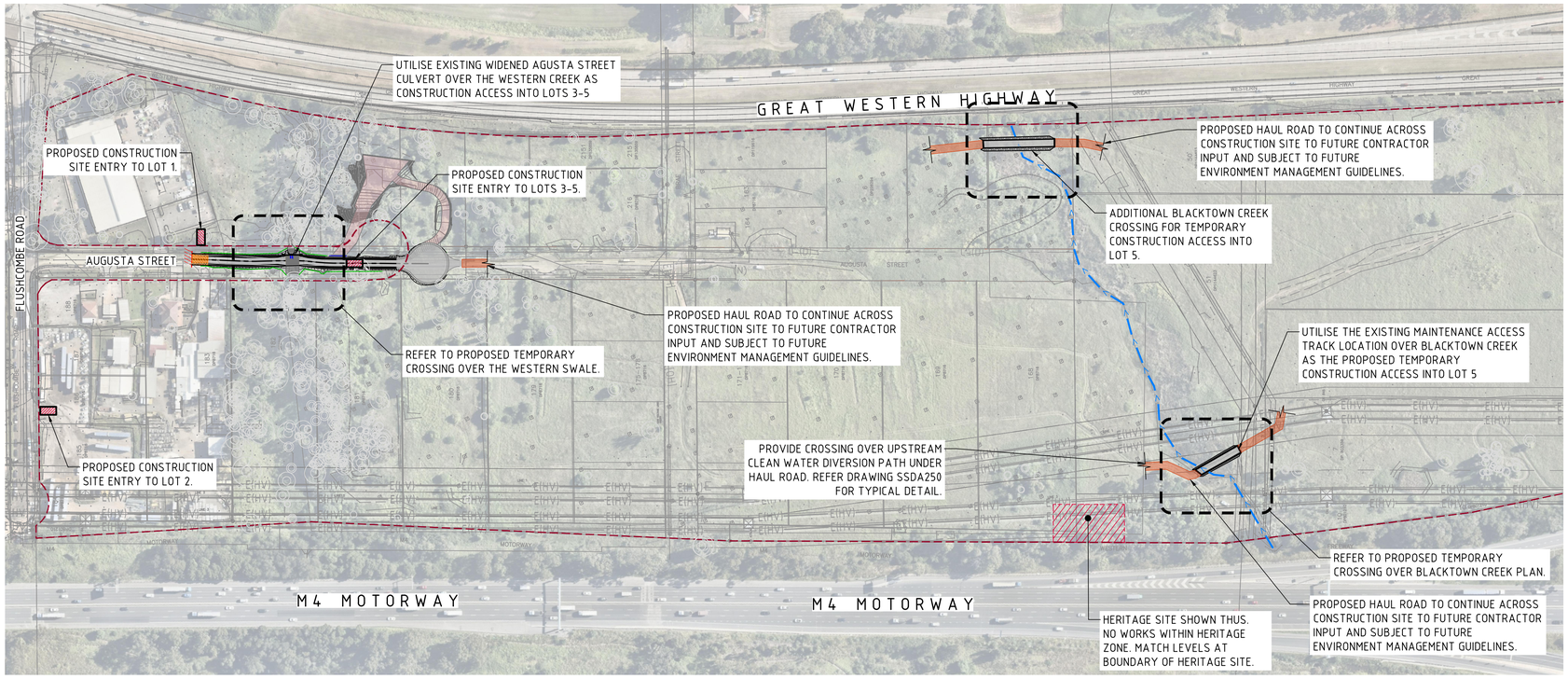
ARCHITECT: PACE ARCHITECTS
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AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA155

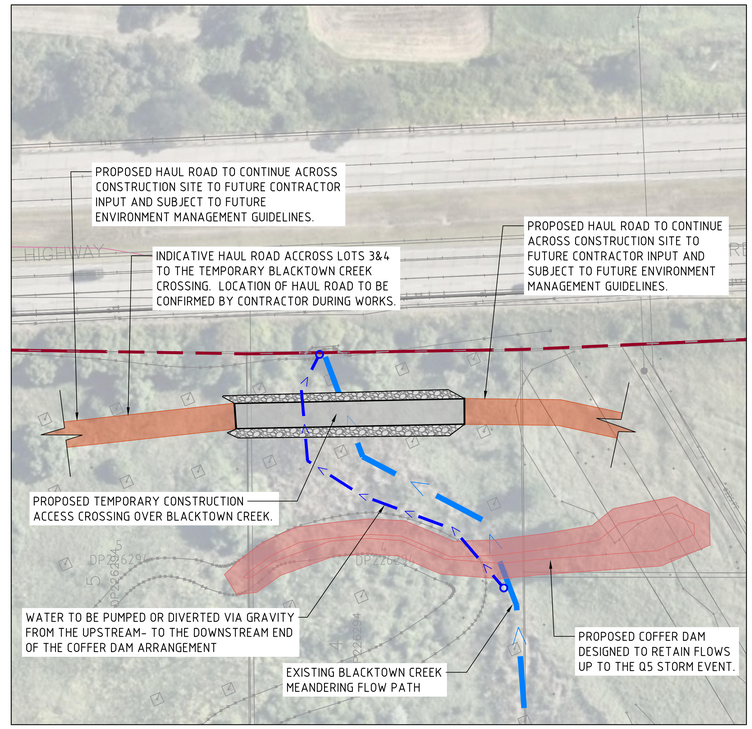
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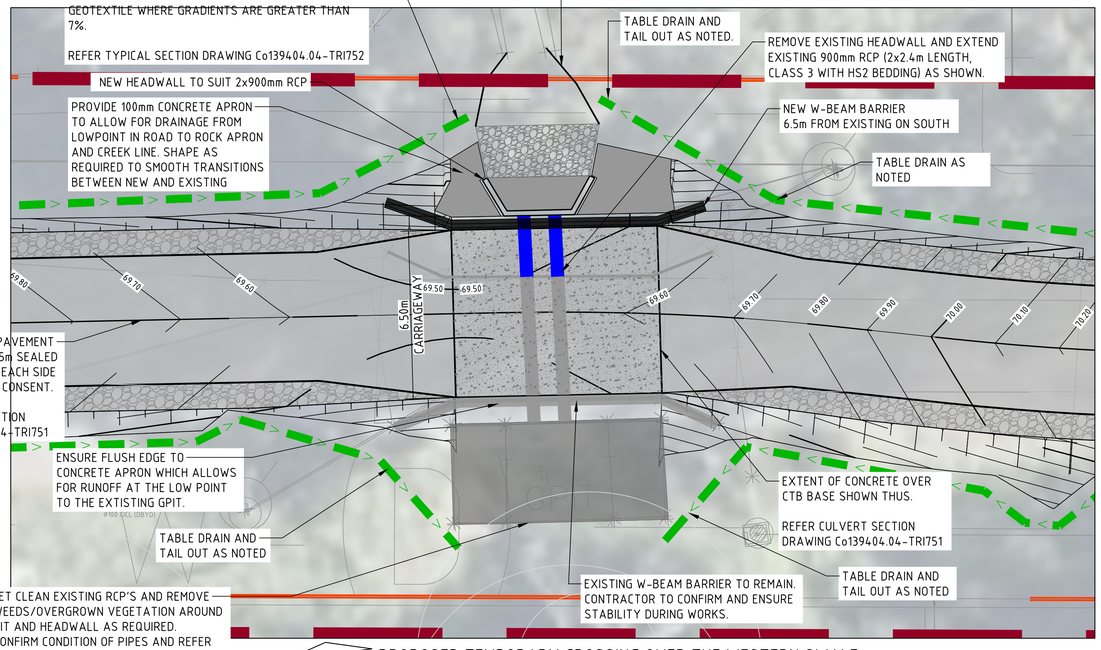
DRAWING TITLE: EASEMENTS KEY PLAN
DRAWING No: C013904.03-SSDA155
ISSUE: A



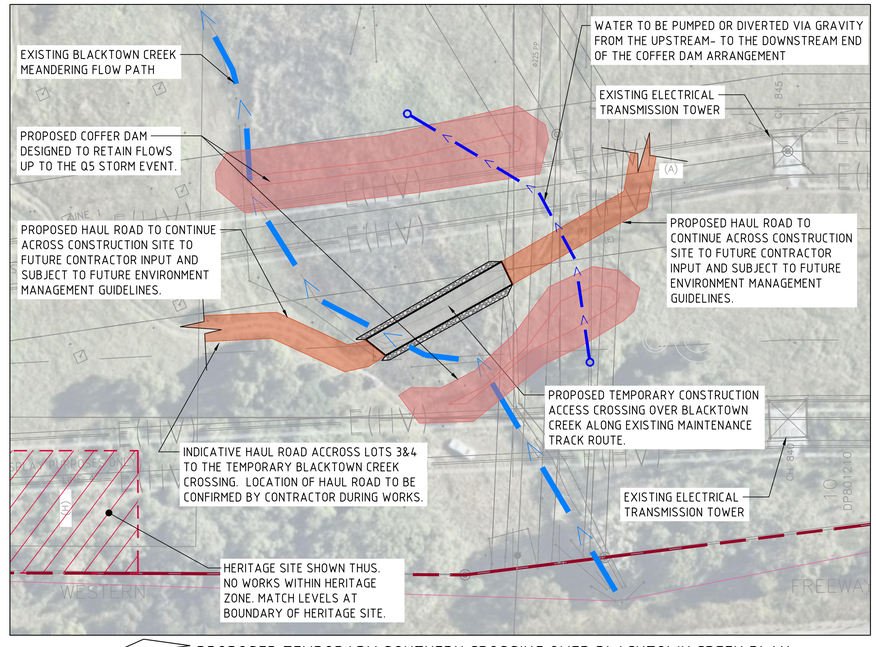
PROPOSED TEMPORARY CONSTRUCTION ACCESS ROUTES AND CREEK CROSSINGS
SCALE 1:1500



PROPOSED TEMPORARY NORTHERN CROSSING OVER BLACKTOWN CREEK PLAN
SCALE 1:500



PROPOSED TEMPORARY CROSSING OVER THE WESTERN SWALE
SCALE 1:100



PROPOSED TEMPORARY SOUTHERN CROSSING OVER BLACKTOWN CREEK PLAN
SCALE 1:500

NOTE:
REFERENCE SHOULD BE MADE TO DRAWINGS SSDA200 TO SSDA202 FOR PROPOSED EROSION AND SEDIMENT CONTROL MEASURES.

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	B
ISSUED FOR INFORMATION	26.07.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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CONSULT AUSTRALIA

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DRAWING TITLE: PROPOSED TEMPORARY CONSTRUCTION ACCESS ROUTES AND CREEK CROSSINGS

DRAWING No: C013904.03-SSDA190 ISSUE: B

TABLE 1 - STABILISATION REQUIREMENTS AND TREATMENT METHODS

DURING CONSTRUCTION - TEMPORARY STABILISATION
(DURING PERIODS OF INACTIVITY OR WHEN WORKS ARE ON HOLD)

LANDS	STABILISATION REQUIREMENT	TIMEFRAMES	TREATMENT METHODS - PRODUCTS	REMARKS
ALL LANDS	C-FACTOR = 0.15 (50% EQUIVALENT GROUND COVER[1]	APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER)	SOIL BINDER (I.E VITAL P47/STONEWALL OR EQUIVALENT[1])	- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1]. - VITAL DILUTION RATE = 1:10(VITAL:WATER). -RE-APPLY/MAINTAIN AS NECESSARY (APPROX. EVERY 3-6 MONTHS WITHOUT SUITABLE VEGETATION COVER) TO ENSURE THE REQUIRED COVER IS PROVIDED.
			GEOTEXTILE, JUTE MATTING, BLACK PLASTIC OR EQUIVALENT[1]	- COVER ALL EXPOSED SOILS. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
WATERWAYS, DRAINAGE LINES AND CONCENTRATED FLOW AREAS	C-FACTOR = 0.05 (70% GRASS COVER OR EQUIVALENT GROUND COVER[1]	APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY CONCENTRATED FLOWS.	REFER TO THE DRAIN SPECIFICATIONS DETAILED ON THE PLAN FOR SPECIFIC LINING/STABILISATION REQUIREMENTS. EXAMPLE TREATMENT METHODS ARE SHOWN BELOW.	
			TEMPORARY LINING - GEOTEXTILE (I.E. BIDIM A24 OR EQUIVALENT[1])	- COMPLETE ANY SUBSOIL TREATMENT BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
			JUTE MESH, SEEDING AND SOIL BINDER (I.E. VITAL P47/STONEWALL OR EQUIVALENT[1]) - LOW FLOWS TO MODERATE	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF 5 TONNES/Ha). - PLACE TOPSOIL TO A DEPTH OF AT LEAST 75mm. - COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1]. - VITAL DILUTION RATE = 1L / m^2 OF DILUTED VITAL MIXTURE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			JUTE MATTING (~350gsm) AND SEEDING OR EQUIVALENT[1]) - LOW FLOWS TO MODERATE	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - PLACE TOPSOIL TO A DEPTH OF AT LEAST 75mm. - COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			TURF REINFORCEMENT MATTING (TRM) (E.G. TERRAMAT OR EQUIVALENT[1]) - MODERATE FLOWS	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - PLACE TOPSOIL TO A DEPTH OF AT LEAST 75mm. - COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			ROCK LINING - HIGH FLOWS	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - INSTALL GEOTEXTILE UNDERLAY (IF SPECIFIED) IN ACCORDANCE WITH SD 5-7. - INSTALL ROCK ARMOURING (TO THE DEPTH AND SIZE AS SPECIFIED ON THE PLAN).
STOCKPILES	C-FACTOR = 0.10 (60% GRASS COVER OR EQUIVALENT GROUND COVER[1]	APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION	SEEDING AND SOIL BINDER (I.E. VITAL P47/STONEWALL OR EQUIVALENT[1])	- APPLY SEED TO ALL STOCKPILE SURFACES (NOTE: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT). -SPRAY ALL STOCKPILE SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1] - VITAL DILUTION RATE = 1:10 (VITAL:WATER). - APPLICATION RATE = 1L / m2 OF DILUTED VITAL MIXTURE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			GEOTEXTILE, JUTE MATTING, BLACK PLASTIC OR EQUIVALENT[1]	- COVER ALL EXPOSED SOILS. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
GENERAL SURFACES	C-FACTOR = 0.10 / 0.05 (60% / 70% GRASS COVER OR EQUIVALENT GROUND COVER[1]	C-FACTOR = 0.1 APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND C-FACTOR = 0.05 APPLIES WITHIN A FURTHER 60 DAYS	TOPSOIL, SEEDING AND SOIL BINDER (I.E. VITAL P47/STONEWALL OR EQUIVALENT[1])	- REFER TO SD 7-1 - COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - PLACE GYPSUM TREATED TOPSOIL TO A DEPTH OF AT LEAST 75mm. - APPLY ANY FERTILISERS REQUIRED. - APPLY SEED TO ALL SURFACES. - SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1]. - VITAL DILUTION RATE = 1:10 (VITAL:WATER). - APPLICATION RATE = 1L / m2 OF DILUTED VITAL MIXTURE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			HYDROMULCH OR EQUIVALENT[1]	- REFER TO SD 7-1 - COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - PLACE GYPSUM TREATED TOPSOIL TO A DEPTH OF AT LEAST 75mm. - APPLY HYDROMULCH WITH APPROVED SEED MIX TO SOIL SURFACE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.

[1] - EQUIVALENT COVER/PRODUCT MUST ACHIEVE THE EQUIVALENT C-FACTOR WITH PROVEN RESEARCH/DOCUMENTATION TO VERIFY THIS. STANDARD DRAWINGS REFERENCED CAN BE LOCATED IN THE 'SOILS & CONSTRUCTION, MANAGING URBAN STORMWATER - VOLUME 1' BOOK BY LANDCOM. ALTERNATIVE DETAILS MAY BE SOUGHT IN CONSULTATION WITH THE ENGINEER

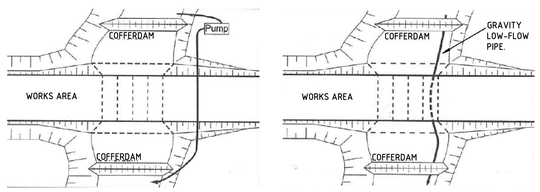
TABLE 2 - LIMITATIONS TO ACCESS DURING CONSTRUCTION

LAND USE	LIMITATION	REMARKS
CONSTRUCTION AREAS	LIMITED TO 5 (PREFERABLE 2) METRES FROM THE EDGE OF ANY ESSENTIAL CONSTRUCTION ACTIVITY AS SHOWN ON ENGINEERING PLANS.	ALL SITE WORKERS SHOULD CLEARLY RECOGNISE THESE AREAS THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCE (DOWNSLOPE) OR SIMILAR MATERIALS.
ACCESS CORRIDORS	LIMITED TO A MAXIMUM WIDTH OF 7 METERS	THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON SITE, THEY CAN VARY IN POSITION SO AS TO BEST CONSERVE EXISTING VEGETATION AND PROTECT DOWNSTREAM AREAS WHILE BEING CONSIDERATE OF THE NEEDS EFFICIENT WORKS ACTIVITIES. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES.
REMAINING LANDS, INCLUDING REVEGETATION AREA	ENTRY PROHIBITED EXCEPT FOR ESSENTIAL MANAGEMENT WORKS	THINNING OF GROWTH MIGHT BE NECESSARY, FOR EXAMPLE, FOR FIRE REDUCTION OR WEED REMOVAL.

EROSION CONTROL NOTES

ALL SEDIMENT CONTROL WORK INCLUDING DIVERSION BANKS, CATCH DRAINS, V-DRAINS AND SEDIMENT FENCES SHALL BE COMPLETED IN ACCORDANCE WITH THE STAGED PLANS PRESENTED AND SHALL FACILITATE A STAGED CONSTRUCTION METHODOLOGY.

1. ALL EROSION & SEDIMENT CONTROLS SHALL BE COMPLETED IN ACCORDANCE WITH THE 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER - THE BLUE BOOK' BY LANDCOM.
2. SEDIMENT FENCES AND SEDIMENT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
3. STRAW BALE BARRIERS & GEOFABRIC FENCES OR SEDIMENT FANCNES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
4. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED. REFER TO TABLE 1 FOR APPROVED STABILISATION METHODS.
5. CLEAN OR NON-SITE WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM OVER STABLE SURFACES.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
7. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS OF 5mm OR GREATER WITHIN A 24 HOUR PERIOD FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
8. THE SITE IS TO BE INSPECTED FOLLOWING A RAINFALL EVENT OF 5mm OR GREATER WITHIN A 24 HOUR PERIOD FOR EVIDENCE OF EROSION AND RESPOND WITH INCREASED CONTROL IF REQUIRED.
9. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
10. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
11. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS TO DIRECT WATER TO A STABLE OUTLET OVER THE BATTER OR INTERNALLY TOWARDS SEDIMENT CONTROL. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
12. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
13. AFTER PERMANENT STABILISATION OF THE SITE IS COMPLETE (I.E. BY TOPSOILING, PAVING ETC.) AND THE SITE IS DEEMED TO BE STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SEDIMENT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
14. ALL STOCKPILES ARE TO BE SUITABLY COVERED AND STABILIZED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
15. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
16. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS INDICATED ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES IN THE APPROVED ESCP.
17. ACCESS AND EXIT AREAS SHALL INCLUDE TRUCK SHAKER GRID OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
18. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF SEDIMENTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
19. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.



PUMPED SYSTEM OPTION — GRAVITY PIPE OPTION

INSTREAM WORKS COFFERDAM ARRANGEMENT

DUST CONTROL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE DUST CONTROL MEASURES ARE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES REQUIREMENTS.
2. THE APPLICATION OF LIQUID BASED DUST SUPPRESSION MEASURES MUST BE SUCH THAT SEDIMENT LADEN RUNOFF RESULTING FROM SUCH MEASURES DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD. (EG UTILISING SEDIMENT CONTROLS)
3. DUST GENERATION ASSOCIATED WITH WIND EROSION TO BE CONTROLLED USING WATER TRUCKS, DUST SUPPRESSING FOG, MIST GENERATORS, SEALANT PLACED OVER THE SOIL, SURFACE ROUGHENING OR RE-VEGETATION.
4. THE FOLLOWING ACTIVITIES SHALL BE ADOPTED, IF NECESSARY, TO MANAGE DUST CONTROL ON SITE:
   - LIMITING THE AREA OF SOIL DISTURBANCE AT ANY GIVEN TIME
   - REPLACING TOPSOIL AFTER COMPLETION OF EARTHWORKS.
   - PROGRAMMING WORK TO MINIMISE THE LIFE OF STOCKPILES.
   - TEMPORARILY STABILISING LONG-TERM STOCKPILES.
   - GRAVELLING UNSEALED ACCESS AND HAUL ROADS.
   - MINIMISING TRAFFIC MOVEMENT ON EXPOSED SURFACES.
   - LIMITING VEHICULAR TRAFFIC TO 15km/h.
   - RETAINING EXISTING VEGETATION AS WIND BREAKS.
   - UTILISING A WATER CART WITH POTABLE WATER ONLY
5. OIL, LANDFILL GAS CONDENSATE OR ANY CONTAMINATED LEACHATE IS NOT TO BE USED FOR DUST SUPPRESSION.

INSTREAM WORKS:

1. SEDIMENT FENCES AND SEDIMENT FENCE RETURNS TO BE ERECTED PRIOR TO THE COMMENCEMENT OF ANY WORK. SEDIMENT FENCES TO REMAIN UNTIL COMPLETION OF INSTREAM WORK IN THESE LOCATION TO PROTECT EXISTING DOWNSTREAM PROPERTIES AND ROAD PAVEMENT. (REFER TO SSDA250 FOR DETAILS).
2. UNDERTAKE WORK DURING A PERIOD OF DRY FORECASTED WEATHER.
3. PROTECT DISTURBED AREA WITH COFFERDAMS AS REQUIRED.
4. TEMPORARY LOW FLOW DIVERSION PIPE OR PUMPED SYSTEM MAY BE INSTALLED AT THE BASE OF CHANNEL TO DIVERT CLEAN WATER FROM UPSTREAM BASEFLOW.
5. UNDERTAKE ALL INSTREAM WORK IN THE SPECIFIED SECTION OF THE CHANNEL IN ACCORDANCE WITH APPROVED PLANS AND IMMEDIATELY PLANT TO STABLISE THE WORKS.
6. PLANT WITH APPROPRIATE SPECIES, AT A DENSITY THAT WOULD NATURALLY OCCUR.

SITE STABILITY NOTE:

LAND DISTURBANCE & LAND FILLING ACTIVITIES MUST BE UNDERTAKEN IN A PHASED MANNER, IMPACTING A MAXIMUM AREA OF 65Ha AT ANY ONE TIME PER CONDITION B41(a).
DISTURBED AREAS MUST BE STABILISED TO A C-FACTOR OF 0.05 PRIOR TO THE COMPLETION OF ANY OTHER WORKS PER CONDITION B41(b).
REFER TO TABLE 1 ABOVE FOR APPROVED STABILISATION METHODS

INSPECTION & MAINTENANCE NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ADEQUATE INSPECTIONS AND MAINTENANCE ARE CARRIED OUT DURING SITE WORKS. DAILY AND WEEKLY INSPECTION CHECKLISTS HAVE BEEN PROVIDED IN THE COSTIN ROE SOIL AND WATER MANAGEMENT PLAN (SWMP) 13904.03-03D.rpt DATED 23/07/23.

AS NOTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ADEQUATE MAINTENANCE OF EROSION & SEDIMENT CONTROL MEASURES ARE UNDERTAKEN DURING THE WORKS PERIOD. DAMAGED, DISLODGED OR FAULTY ESC MEASURES ARE TO BE IMMEDIATELY RECTIFIED AND THE SURROUNDING AREA IS TO BE REMEDIATED AS PER NOTES ON THIS DRAWING, THE SWMP AND THE LANDCOM 'BLUE BOOK'.

SOIL & WATER MANAGEMENT PLAN NOTE:

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SOIL AND WATER MANAGEMENT PLAN BY COSTIN ROE CONSULTING, REF 13904.03-03D.rpt

SEDIMENT CONTROL BASIN NOTES

1. TYPE D BASIN IS REQUIRED.
2. VOLUME OF THE BASINS SHALL BE AS NOMINATED ON DRAWING. NOMINAL POND LOCATIONS AND NOMINAL DIMENSIONS.
3. SEDIMENT BUILD UP TO NOT EXCEED 33% TOTAL CAPACITY OF BASIN.
4. DEWATERING OF BASIN TO BE PERFORMED TO THE BOTTOM OF THE SEDIMENT SETTLING ZONE FOLLOWING ACHIEVEMENT OF WQO's. MANAGEMENT OF DOSAGE AND DISCHARGE TO BE ACHIEVED WITHIN 5 DAYS OF THE INITIAL RAINFALL EVENT.
5. FOLLOWING DEWATERING PER NOTE 4, WATER LEVEL TO BE MAINTAINED AT 20% CAPACITY AFTER A FOUR DAY SETTLING PERIOD FOLLOWING A STORM EVENT SUCH THAT THE BASIN HAS SUFFICIENT CAPACITY TO CONTAIN RUNOFF AND SEDIMENT FROM SUBSEQUENT RAINFALL EVENTS.
6. WATER TO BE DOSED WITH GYPSUM TO ACCELERATE SETTLEMENT OF SUSPENDED SOLIDS AS REQUIRED.
7. GYPSUM DOSAGE RATE TO BE APPLIED AT APPROX. 32kg PER 100 CUBIC METRE OF COLLECTED RUNOFF.
8. THE USE OF ALUM (OR ANY OTHER ALTERNATIVE) AS A FLOCCULANT IS NOT RECOMMENDED. ALUM OR ANY OTHER FLOCCULANT IS TO BE USED ONLY FOLLOWING CONSULTATION WITH AND ACCEPTANCE FROM COUNCIL ESC OFFICERS.
9. DISCHARGE FROM POND IS PERMISSIBLE WHEN THE WATER PH IS 6.5-8.5 AND IS CLARIFIED TO AT OR BELOW A TSS OF 50mg/L. CLARIFICATION WOULD GENERALLY BE ACHIEVED IN 36-72 HOURS WITH THE USE OF GYPSUM PLUS NO VISIBLE OIL OR GREASE. CORRELATION TESTS MUST BE UNDERTAKEN ON SITE TO ENSURE THIS IS ACHIEVED.
10. DEWATERING SHALL BE DONE IN SUCH A MANNER AS TO REMOVE THE CLEAN WATER (BEING WATER WITHIN THE ADOPTED CRITERIA) WITHOUT REMOVING OR DISTURBING THE SEDIMENT THAT HAS SETTLED. THE PUMP INTAKE PIPE IS NOT TO REST ON THE SETTLED SEDIMENT LAYER.
11. IF WATER EXCEEDS TSS OF 50mg/L DURING DEWATERING, PUMPING IS TO CEASE. RECORDS ARE TO BE KEPT (ON-SITE AT ALL TIMES) OF ALL MEASUREMENT PRIOR TO, DURING AND AFTER DISCHARGE. RECORDS TO BE MADE AVAILABLE TO COUNCIL OFFICERS UPON REQUEST.
12. PROVIDE SECURITY FENCE TO BASIN FOR SAFETY.

SEDIMENTATION BASIN NOTE:

REFER TO SEDIMENT & EROSION CONTROL NOTES.

FOR SEDIMENT AND EROSION CONTROL DETAILS, REFER TO THE LANDCOM 'BLUE BOOK' AND EXTRACTS ON DRAWING SSDA250.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWAER-THE BLUE BOOK'. CAPACITY BASED ON 5-DAY RAINFALL DEPTHS AT 85th PERCENTILE INTENSITY (32.2mm) IN THE LIVERPOOL CATCHMENT AREA.

NOTES:
1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)
3. REFER TO DRAWING SSDA201 FOR SEDIMENTATION BASIN CALCULATIONS

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	E
ISSUED FOR INFORMATION	19.07.24	D
REVISED AS CLOUDED	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

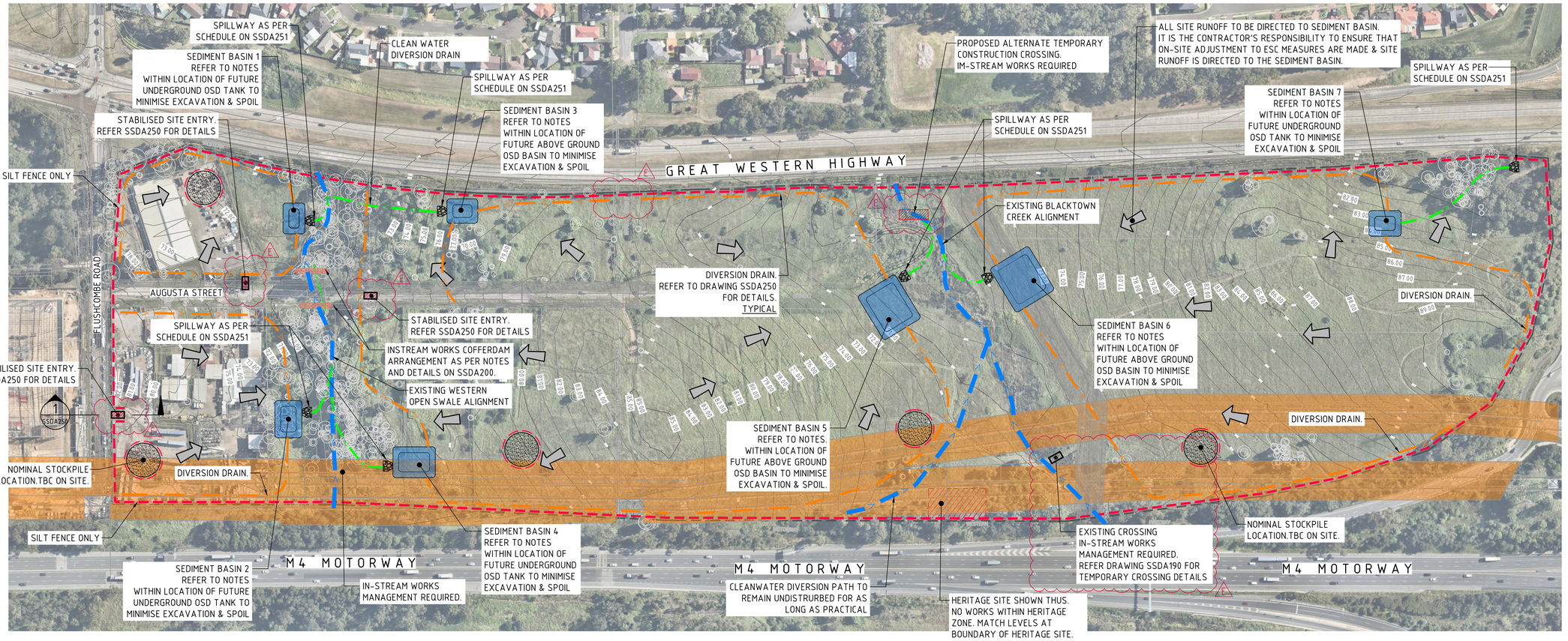
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AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA200

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DRAWING TITLE: EROSION & SEDIMENT CONTROL ENGINEERING NOTES
DRAWING No: C013904.03-SSDA200
ISSUE: E



EROSION AND SEDIMENT CONTROL PLAN - STAGE 1
SCALE 1:1500

STAGING NOTES- STAGE 1:

STAGE 1 REPRESENTS INITIAL SITE ESTABLISHMENT. THE STAGE 1 SCOPE IS NOTED TO BE PRIOR TO SITE STRIPPING & GRUBBING.

STAGE 1 IMPLEMENTATION RECOMMENDATIONS:

1. SURVEY AND MARK BOUNDARIES, ACCESS NO GO ZONES, TREE PROTECTION ZONES (IF REQUIRED), DIVERSION DRAINS, LAYDOWN AREAS, SITE PARKING AREAS, AND SITE OFFICE ZONES.
2. PREPARE AND CONSTRUCT STABILISED SITE CONSTRUCTION ENTRY'S.
3. INSTALL ALL PRELIMINARY EROSION & SEDIMENT CONTROL MEASURES. MINIMUM ITEMS INCLUDE PERIMETER SILT FENCES, ANY SECURITY FENCING, NO GO ZONES, DIVERSION DRAINS AND SITE AREAS.
4. INSTALL ALL DIVERSION DRAINS.
5. PREPARE AND CONSTRUCT SEDIMENT BASINS.

SEDIMENT CONTROL BASIN NOTES:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013904.03-SSDA250.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.

SEDIMENT BASIN 1:

CATCHMENT AREA	= 1.49ha
REQUIRED BASIN VOLUME	= 360m³
BASE DIMENSION (LxB)	= 8.0m x 15.0m
TOP DIMENSION (LxB)	= 17.0m x 24.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 375m³

SEDIMENT BASIN 2:

CATCHMENT AREA	= 2.53ha
REQUIRED BASIN VOLUME	= 611m³
BASE DIMENSION (LxB)	= 12.0m x 20.0m
TOP DIMENSION (LxB)	= 21.0m x 29.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 616m³

SEDIMENT BASIN 3:

CATCHMENT AREA	= 1.73ha
REQUIRED BASIN VOLUME	= 418m³
BASE DIMENSION (LxB)	= 10.0m x 15.0m
TOP DIMENSION (LxB)	= 19.0m x 24.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 434m³

SEDIMENT BASIN 4:

CATCHMENT AREA	= 3.46ha
REQUIRED BASIN VOLUME	= 836m³
BASE DIMENSION (LxB)	= 15.0m x 24.0m
TOP DIMENSION (LxB)	= 24.0m x 33.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 843m³

SEDIMENT BASIN 5:

CATCHMENT AREA	= 6.48ha
REQUIRED BASIN VOLUME	= 1565m³
BASE DIMENSION (LxB)	= 25.0m x 31.0m
TOP DIMENSION (LxB)	= 34.0m x 40.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 1581m³

SEDIMENT BASIN 6:

CATCHMENT AREA	= 6.62ha
REQUIRED BASIN VOLUME	= 1599m³
BASE DIMENSION (LxB)	= 26.0m x 31.0m
TOP DIMENSION (LxB)	= 35.0m x 40.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 1634m³

SEDIMENT BASIN 7:

CATCHMENT AREA	= 1.96ha
REQUIRED BASIN VOLUME	= 573m³
BASE DIMENSION (LxB)	= 11.0m x 16.0m
TOP DIMENSION (LxB)	= 20.0m x 25.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 486m³

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:

1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)
3. Cv = 0.50 & LENGTH TO WIDTH RATIO OF 2 (MIN.)

SOIL TYPE TO BE ASSESSED BY A GEOTECHNICAL ENGINEER

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- DENOTES DIVERSION DRAIN
- DENOTES CLEAN WATER DIVERSION DRAIN
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES CONSTRUCTION ENTRY
- DENOTES OVERLAND FLOW PATH
- DENOTES NOMINAL STOCKPILE LOCATION.

NOTES:

REFER TO DRAWING SSDA200 FOR DETAILED EROSION AND SEDIMENT CONTROL NOTES.

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SCALE 1:1500 AT B1 SIZE SHEET

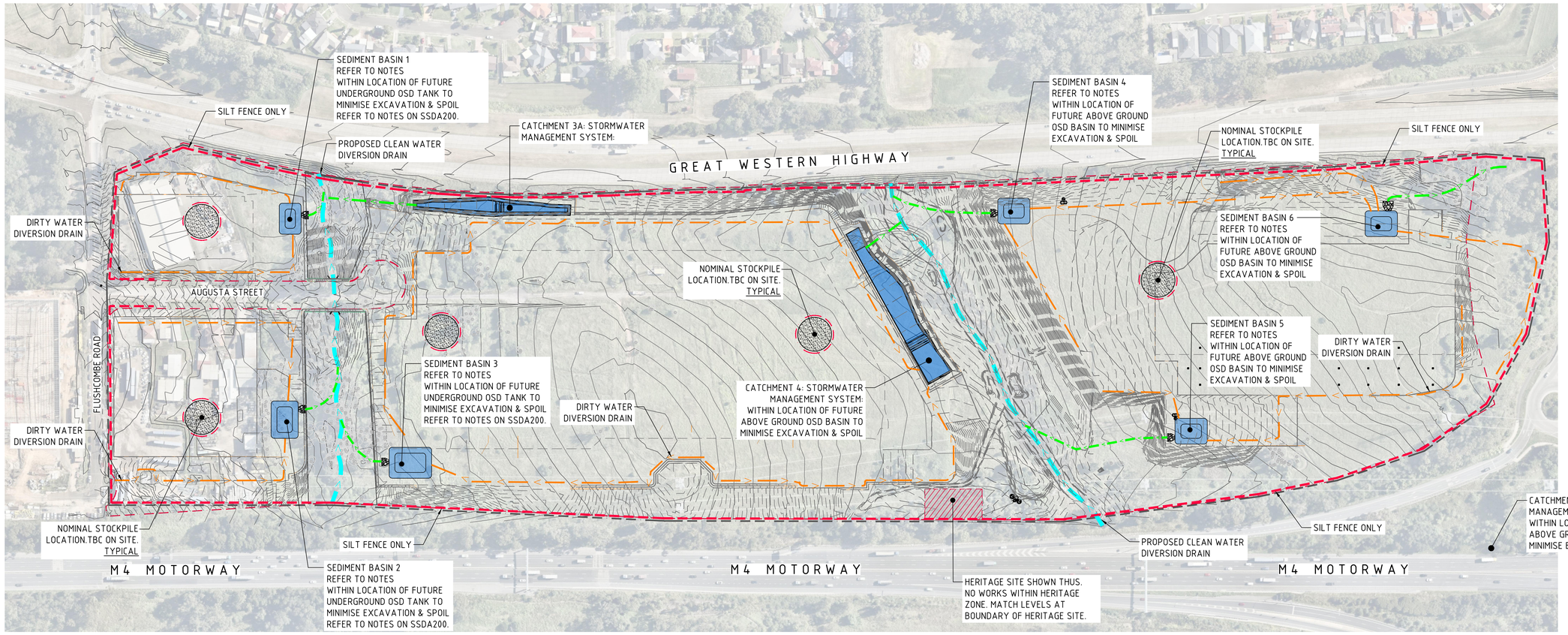
FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	E
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ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148
DESIGNED LDV | DRAWN JB | DATE JUNE' 22 | CHECKED MW | SIZE B1 | SCALE AS SHOWN | CAD REF: C013904.03-SSDA201
CONSULT AUSTRALIA

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DRAWING TITLE: EROSION AND SEDIMENT CONTROL PLAN STAGE 1
DRAWING No: C013904.03-SSDA201
ISSUE: E



EROSION AND SEDIMENT CONTROL PLAN - STAGE 2

SCALE 1:1500

STAGING NOTES - STAGE 2:

STAGE 2 REPRESENTS WORKS FOLLOWING SITE ESTABLISHMENT INCLUDING SITE STRIPPING & GRUBBING, AND COMMENCEMENT OF EARTHWORKS.

STAGE 2 IMPLEMENTATION RECOMMENDATIONS:

1. PREPARE AND CONSTRUCT SEDIMENT BASIN.
2. ADJUST DIVERSION DRAINS TO ENSURE ALL RUNOFF IS DIRECTED TO BASIN. CHECK AND CONFIRM ON SITE FOR ANY CONTOURS OR DRAINAGE LINES NOT SHOWN ON THE ESCP AND ALLOW FOR THEM ON SITE AS REQUIRED.
3. ESTABLISH SITE COMPOUND INCLUDING OFFICE AND PARKING AREAS.
4. ENSURE ESCP MEASURES SHOWN ON PLAN ARE INSTALLED, AND EXISTING MEASURES ARE CHECKED AND MAINTAINED AS REQUIRED.
5. COMMENCE SITE STRIPPING (LIMIT TO AREA OF WORKS AS NECESSARY TO COMPLETE THE WORKS) AND CUT TO FILL EARTHWORK.
6. MONITOR AND INSPECT MEASURES IN ACCORDANCE WITH THE SITE INSPECTION CHECK SHEETS AND SOIL AND WATER MANAGEMENT PLAN INCLUDED IN THE SITE CEMP.
7. ALL CONTROLS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD, AND PROGRESSIVELY ADJUSTED TO SUIT SITE CONDITIONS IN ACCORDANCE WITH THE CEMP., THE SOIL AND WATER MANAGEMENT PLAN (SUBPLAN OF THE CEMP) AND PER BLUE BOOK/ WHITE BOOK REQUIREMENTS.

SEDIMENT CONTROL BASIN NOTES:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013904.03-SSDA250.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.

SEDIMENT BASIN 1:

CATCHMENT AREA	= 1.49ha
REQUIRED BASIN VOLUME	= 360m³
BASE DIMENSION (LxB)	= 8.0m x 15.0m
TOP DIMENSION (LxB)	= 17.0m x 24.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 375m³

SEDIMENT BASIN 2:

CATCHMENT AREA	= 2.53ha
REQUIRED BASIN VOLUME	= 611m³
BASE DIMENSION (LxB)	= 12.0m x 20.0m
TOP DIMENSION (LxB)	= 21.0m x 29.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 616m³

SEDIMENT BASIN 3:

CATCHMENT AREA	= 3.46ha
REQUIRED BASIN VOLUME	= 836m³
BASE DIMENSION (LxB)	= 15.0m x 24.0m
TOP DIMENSION (LxB)	= 24.0m x 33.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 843m³

SEDIMENT BASIN 4:

CATCHMENT AREA	= 1.96ha
REQUIRED BASIN VOLUME	= 473m³
BASE DIMENSION (LxB)	= 9.0m x 20.0m
TOP DIMENSION (LxB)	= 18.0m x 29.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 504m³

SEDIMENT BASIN 5:

CATCHMENT AREA	= 2.89ha
REQUIRED BASIN VOLUME	= 698m³
BASE DIMENSION (LxB)	= 12.0m x 24.0m
TOP DIMENSION (LxB)	= 21.0m x 33.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 714m³

SEDIMENT BASIN 6:

CATCHMENT AREA	= 1.23ha
REQUIRED BASIN VOLUME	= 297m³
BASE DIMENSION (LxB)	= 6.0m x 14.0m
TOP DIMENSION (LxB)	= 15.0m x 23.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 300m³

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:

1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)
3. Cv = 0.50 & LENGTH TO WIDTH RATIO OF 2 (MIN.)

SOIL TYPE TO BE ASSESSED BY A GEOTECHNICAL ENGINEER

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- DENOTES DIVERSION DRAIN
- DENOTES CLEAN WATER DIVERSION DRAIN
- DENOTES PROPOSED CLEAN WATER DIVERSION DRAIN
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES CONSTRUCTION ENTRY
- DENOTES OVERLAND FLOW PATH
- DENOTES NOMINAL STOCKPILE LOCATION.

NOTES:

REFER TO DRAWING SSDA200 FOR DETAILED EROSION AND SEDIMENT CONTROL NOTES.

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

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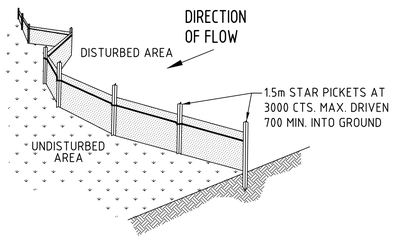
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DRAWING TITLE: EROSION AND SEDIMENT CONTROL PLAN STAGE 2

DRAWING No: C013904.03-SSDA202

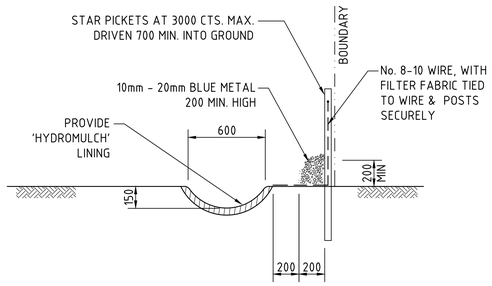
ISSUE: E



TYPICAL SILT FENCE DETAIL

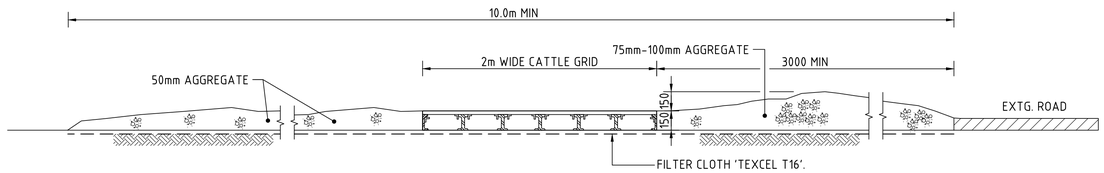
N.T.S

NOTE: PROVIDE 1m RETURNS AT 30m INTERVALS. TYPICAL

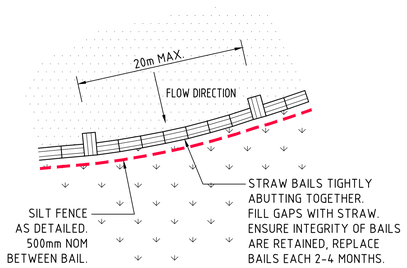


TYPICAL OPEN DRAIN & SILT FENCE

SCALE 1:20

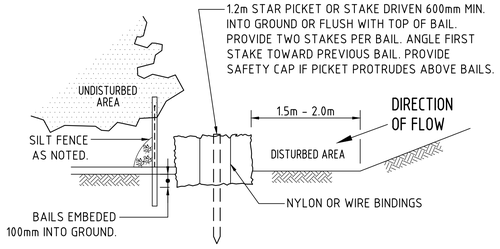


SECTION 1:20 (1 / C200) : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'



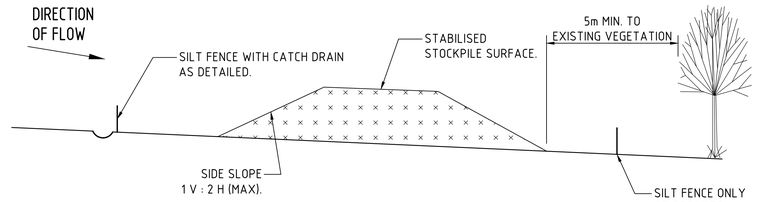
SILT FENCE WITH HAY BAIL PLAN

N.T.S



SILT FENCE WITH HAY BAIL DETAIL

N.T.S

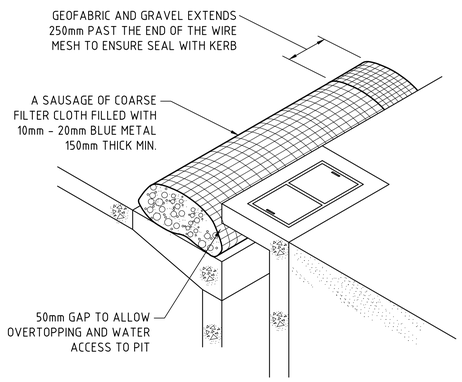


TYPICAL STOCKPILE DETAIL

N.T.S

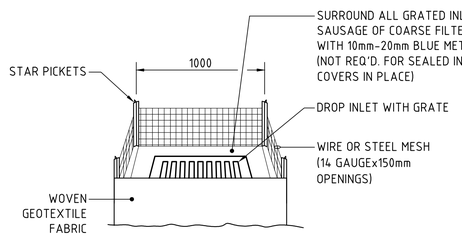
STOCKPILE NOTES

1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING WOOD CHIP MULCH - 16 TONNE/Ha.
5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.



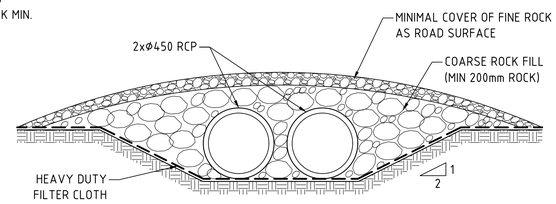
KERB INLET CONTROL

N.T.S



GRATED INLET PIT FILTER DETAIL

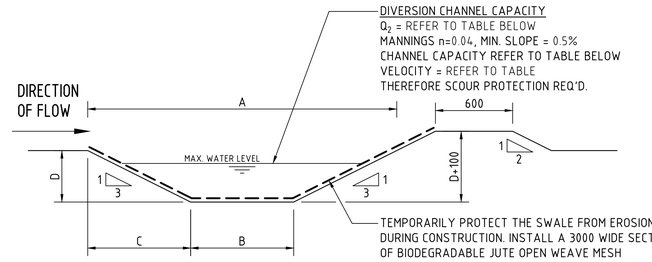
N.T.S



TYPICAL CROSSING OVER DIVERSION CHANNEL

SCALE 1:20

NOTE :
ADOPT ABOVE DETAILS AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE & TO PITS ON THE ROAD ADJACENT TO SITE BOUNDARY.



DIVERSION DRAIN SECTION

SCALE 1:20

DIVERSION DRAIN SCHEDULE

CATCHMENT (Ha)	Q_2 (l/s)	MANNINGS (n)	MIN SLOPE (%)	DIM 'A' (m)	DIM 'B' (m)	DIM 'C' (m)	DIM 'D' (m)	CHANNEL CAPACITY (l/s + 10% FREEBOARD)	VELOCITY (m/s)	SCOUR PROTECTION REQUIRED
C1 - 1.80Ha	78.96	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C2 - 3.15Ha	114.16	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C3A - 1.30Ha	133.97	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C3B - 3.50Ha	163.02	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C4 - 8.00Ha	260.43	0.04	0.50	2.60	0.50	1.05	0.35	274.093	0.572	NO
C5A - 7.30Ha	257.03	0.04	0.50	2.60	0.50	1.05	0.35	274.093	0.572	NO
C5B - 2.00Ha	109.62	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT B1 SIZE SHEET

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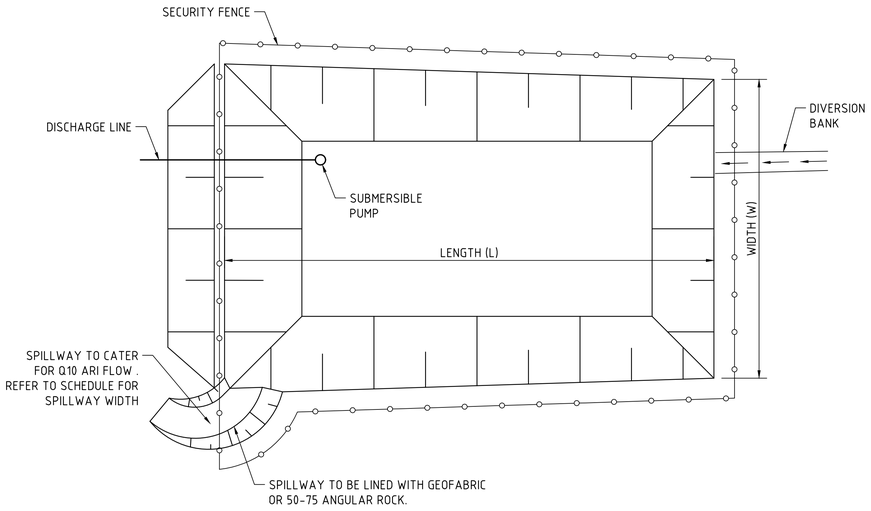
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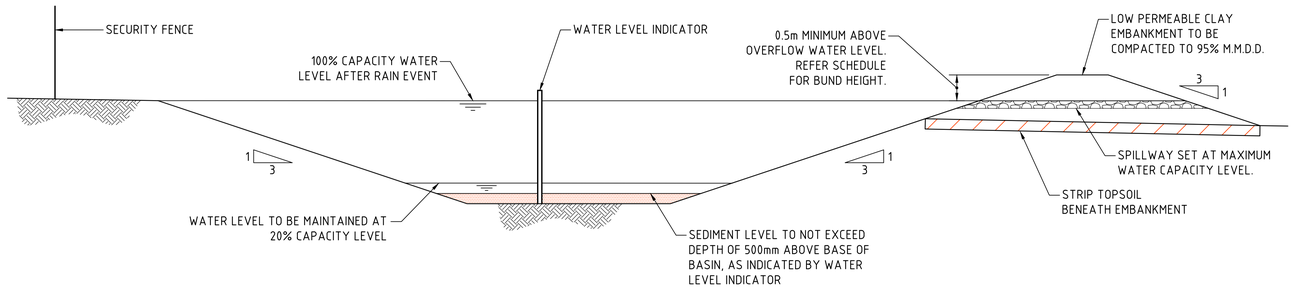
DRAWING TITLE: EROSION AND SEDIMENT CONTROL DETAILS SHEET 1

DRAWING No: C013904.03-SSDA250 ISSUE: C



TYPICAL SEDIMENT CONTROL POND PLAN

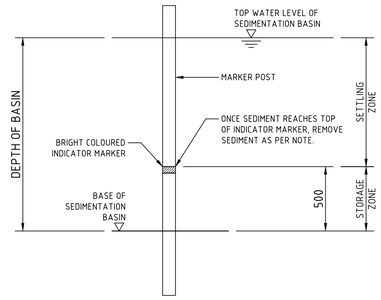
SCALE 1:250



TYPICAL SEDIMENT CONTROL BASIN SECTION

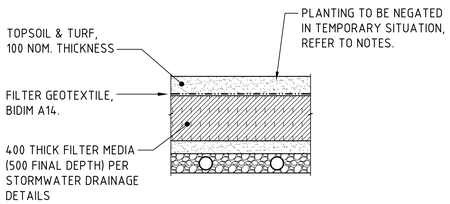
SCALE 1:50

SPILLWAY DETAIL & SCHEDULE					
CATCHMENT (Ha)	FLOW (m^3/s)	WIDTH (mm)	FLOW DEPTH (mm)	ROCK SIZE (mm)	BUND HEIGHT ABOVE SPILLWAY (mm)
0.20	0.14	1000	200	-	600
0.5	0.2	2000	200	-	600
1	0.3	2000	200	-	700
2	0.6	4000	200	-	700
5	1.4	5000	300	200	800
10	2.8	8000	350	200	850
20	5.5	14000	400	250	900
40	11.0	20000	500	250	1000



SEDIMENT STORAGE MARKER

SCALE 1:20



TEMPORARY BIO-RETENTION PROTECTION DETAIL

SCALE 1:20

TEMPORARY CONSTRUCTION REQUIREMENT DETAIL - PROVIDE 100mm TOPSOIL AND TEMPORARY EROSION PROTECTION (JUTEMASTER OR EQUIV) TO SWALE BATTER SLOPES AND ADJACENT LANDSCAPED AREAS. NOTE THAT NO TOPSOIL IS TO BE PLACED OVER FILTRATION MEDIA. PROVIDE SILT FENCE TO TOP OF BANK UNTIL SUCH TIME AS THIS STABILISING AND VEGETATION HAS BEEN COMPLETED.

BIO-RETENTION TO BE PARTIALLY INSTALLED, FOLLOWING COMPLETION OF EARTHWORKS, WITH THE TOP 75-100mm OF FILTER MEDIA REPLACED WITH A FINE TO COARSE SAND UNDERLAIN WITH A GEOTEXTILE LAYER (PER ABOVE DETAIL). FOLLOWING COMPLETION OF THE UPSTREAM DEVELOPMENT AND SITE STABILISATION, THE SAND IS TO BE REMOVED, REPLACED WITH FILTER MATERIAL AND PLANTED OUT. REFER TO BIO-RETENTION NOTES ON DRAWING C013904.03-SSDA454.

TEMPORARY BIO-RETENTION BASIN PROTECTION DETAILS

2m 0 5 10 15 20 25m
SCALE 1:250 AT B1 SIZE SHEET

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

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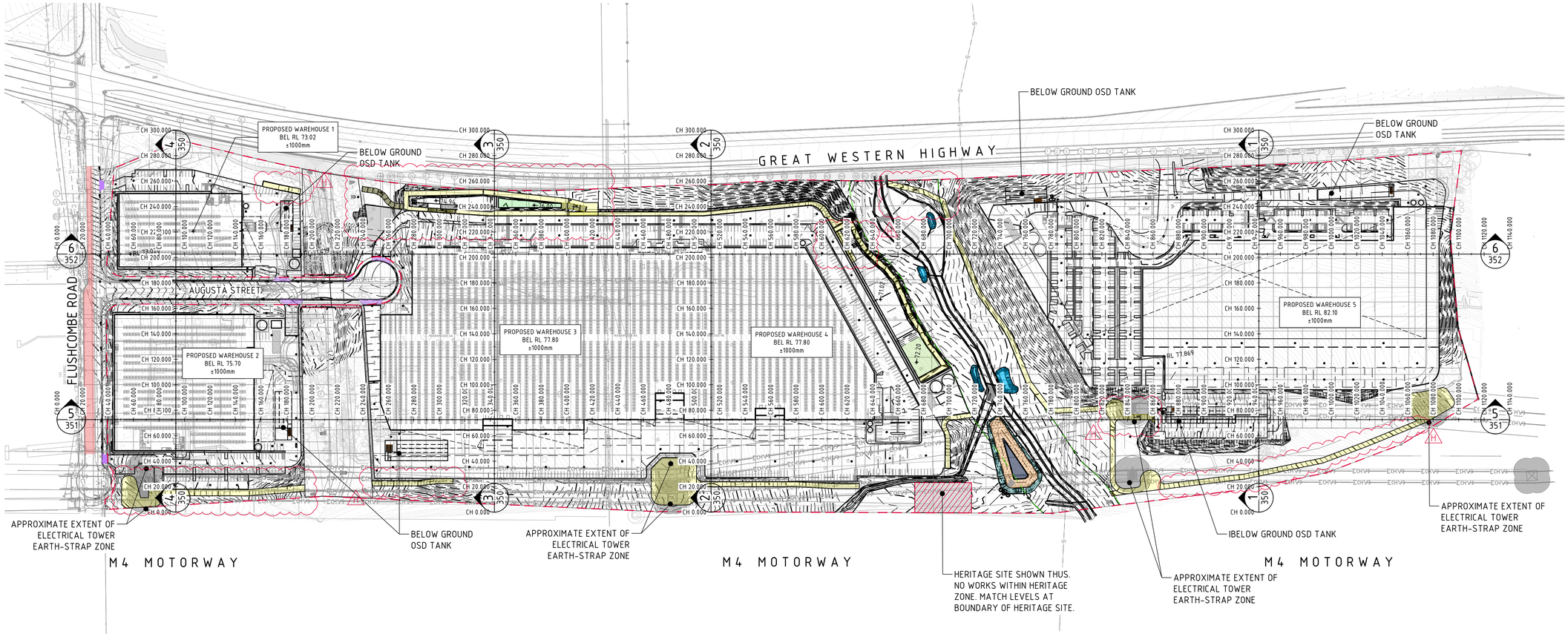
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DRAWING TITLE: EROSION AND SEDIMENT CONTROL DETAILS SHEET 2

DRAWING No: C013904.03-SSDA251 ISSUE: C



BULK EARTHWORKS PLAN
SCALE 1:1500

SITE PREPARATION NOTES:

1. ALL EARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE GUIDELINES SPECIFIED BY THE GEOTECHNICAL REPORT PSM4636-007L PROVIDED BY PSM CONSULT PTY LTD DATED 22/03/2022.
2. EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.
3. STRIP ANY TOP SOIL OR DELETERIOUS MATERIAL AND DISPOSE OF FROM SITE OR STORE AS DIRECTED.
4. COMPLETE CUT TO FILL EARTHWORKS TO ACHIEVE THE REQUIRED LEVELS AS INDICATED ON THE DRAWINGS WITHIN A TOLERANCE OF +0mm/-10mm THROUGH BUILDING PADS/PAVEMENTS AND +0mm/-20mm ELSEWHERE.
5. PREPARE STEEP BATTERS TO RECEIVE FILL BY CONSTRUCTING BENCHING TO FACILITATE FILL PLACEMENT AND COMPACTION. WHERE EXPOSED ROCK (WEATHERED SHALE OR SANDSTONE) IS ENCOUNTERED AT CUT SUBGRADE LEVEL, THE EARTHWORKS CONTRACTOR IS TO ALLOW TO RIP THE SURFACE TO A NOMINAL 0.3-0.4m DEPTH AND RECOMPACT (PER THE ENGINEERING SPEC) AS REQUIRED.
6. AREAS TO RECEIVE FILL (THAT ARE NOT ON BENCHED BATTERS) AND AREAS IN CUT SHALL BE PROOF ROLLED TO IDENTIFY ANY SOFT HEAVING MATERIAL. SOFT MATERIAL SHALL BE BOXED OUT AND REMOVED PRIOR TO FILL PLACEMENT. PROOF ROLLING TO BE INSPECTED BY A GEOTECHNICAL ENGINEER OR THE EARTHWORKS DESIGNER.
7. SITE WON FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
8. IMPORTED FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
9. ALL ENGINEERED FILL PARTICLES SHALL BE ABLE TO BE INCORPORATED WITHIN A SINGLE LAYER. FURTHER, LESS THAN 30% OF PARTICLES SHALL BE RETAINED ON THE 37.5 mm SIEVE. ENGINEERED FILL SHALL BE ABLE TO BE TESTED IN ACCORDANCE WITH THE STANDARD COMPACTION METHOD (AS1289.5.4.1) OR HILF TEST METHOD (AS1289.5.7.1). THESE METHODS REQUIRE LESS THAN 20% RETAINED ON THE 37.5 mm SIEVE. WHERE BETWEEN 20% AND 30% OF PARTICLES ARE RETAINED ON THE 37.5 mm SIEVE THE ABOVE TEST METHODS SHALL STILL BE ADOPTED AND TEST REPORTS ANNOTATED APPROPRIATELY. THESE REQUIREMENTS SHOULD BE MET BY THE MATERIAL AFTER PLACEMENT AND COMPACTION
10. ALL EARTHWORKS SHALL BE COMPLETED UNDER LEVEL 1 CONTROL IN ACCORDANCE WITH AS 3798-2007.
11.
12. ALL THE EARTHWORKS UNDERTAKEN AND THE SUBGRADE CONDITION IN THE CUT AREAS (IN THE STATED PERIOD) ARE DOCUMENTED IN THE REPORTS AND HAVE BEEN UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION.
13. PRIOR TO ANY EARTHWORKS, EROSION CONTROL AS OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE COMPLETED.
14. EXISTING ROCK, IF ANY, SHALL BE REMOVED BY HEAVY ROCK BREAKING OR RIPPING.
15. MATCH EXISTING LEVELS AT BATTER INTERFACE.
16. CONTRACTOR TO MATCH EXISTING LEVELS AT THE INTERFACE OF EARTHWORKS AND EXISTING SURFACE AT BATTER LOCATIONS OR WHERE NO RETAINING WALLS ARE PRESENT. ANY DISCREPANCY BETWEEN DESIGN AND EXISTING LEVELS TO BE REFERRED TO THE ENGINEER FOR DIRECTION OR ADJUSTMENTS TO DESIGN LEVELS.
17. DURING EARTHWORKS THE CONTRACTOR IS TO ENSURE ALL AREAS ARE FREE DRAINING & WILL NOT RETAIN WATER DURING RAINFALL. PROVIDE TEMPORARY MEASURES AS REQUIRED TO ENSURE FREE FLOWING RUNOFF THROUGH MANAGED DRAINAGE PATHS, DIVERSION DRAINS OR OTHER SUITABLE DISPOSAL METHOD AS AGREED DURING THE WORKS. REFER ANY CONCERNS TO THE ENGINEER. REFER TO EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES.

EARTHWORK ESTIMATES

SITE AREA	= 27.4 Ha
DISTURBED AREA	= 24.6 Ha
TOPSOIL STRIP (200mm OVER 27.4 Ha)	=(-54,800m³) (TO BE EXPORTED/REUSED*)
CUT	= -322,000m³
FILL	= +303,100m³
DIFFERENCE	= -18,900m³ (i.e. CUT OVER FILL)

NOTE:
VOLUMES BASED ON 200mm TOPSOIL STRIP OVER THE NOMINATED AREA.

A PORTION OF THE STRIPPED TOPSOIL TO BE REUSED/BLENDED IN LANDSCAPE SETBACK AREAS ONLY SUBJECT TO DISCUSSIONS WITH THE ENGINEER.

EARTHWORKS VOLUMES ARE APPROXIMATE ONLY.

NO ALLOWANCE HAS BEEN MADE FOR DELETERIOUS MATERIAL, EROSION AND SEDIMENT CONTROL, DETAIL EXCAVATION, BULKING OR COMPACTION OF FILLED SOILS, THE REMOVAL OF UNCONTROLLED OR CONTAMINATED MATERIAL OR ANY OTHER UNSPECIFIED EXCAVATION RELATED TO CONSTRUCTION ACTIVITIES.

EARTHWORK ESTIMATES

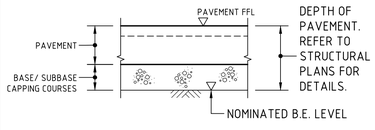
LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- 50.00 – EXISTING CONTOUR (0.25m INTERVAL)
- 50.00 – B.E.L. CONTOUR (MAJOR 1.0m)
- 50.25 – B.E.L. CONTOUR (MINOR 0.25m)
- +50.00 – B.E.L. SPOT LEVEL



NOMINATED B.E.L. DETAIL
NTS

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR INFORMATION	19.07.24	F
UPDATED ARCHITECTURAL MASTERPLAN	08.03.24	E
UPDATED ARCHITECTURAL MASTERPLAN	11.09.23	D
ADDITIONAL PARKING ADDED TO WH2, ACOUSTIC WALL & WALL TO WH3	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	22.06.23	A
ACCESS TRACKS DETAILS PROVIDED	08.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

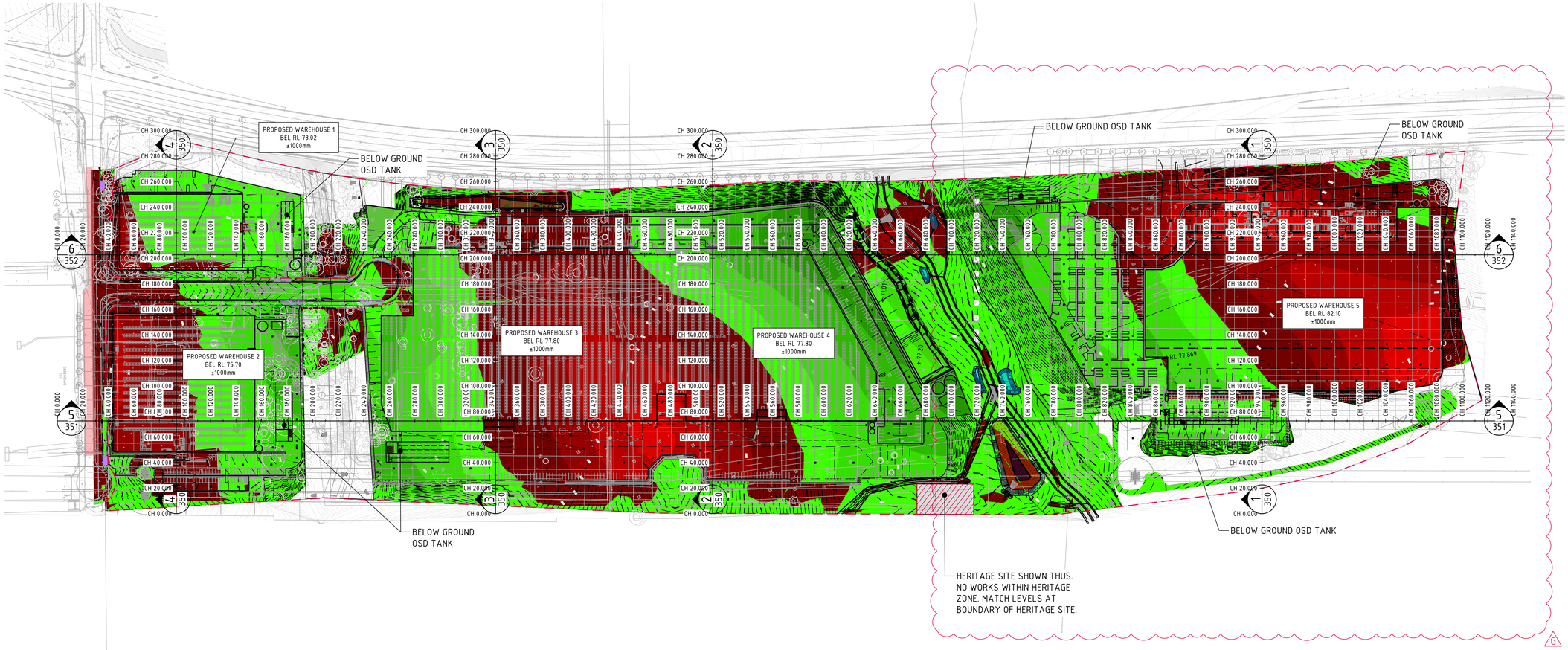
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA300

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DRAWING TITLE: BULK EARTHWORKS PLAN
DRAWING No: C013904.03-SSDA300
ISSUE: H



CUT/FILL PLAN
SCALE 1:1500

DEPTH RANGE			
No.	FROM DEPTH	TO DEPTH	COLOUR
1	-11.000	-10.000	
2	-10.000	-9.000	
3	-9.000	-8.000	
4	-8.000	-7.000	
5	-7.000	-6.000	
6	-6.000	-5.000	
7	-5.000	-4.000	
8	-4.000	-3.000	
9	-3.000	-2.000	
10	-2.000	-1.000	
11	-1.000	0.000	
12	0.000	1.000	
13	1.000	2.000	
14	2.000	3.000	
15	3.000	4.000	
16	4.000	5.000	
17	5.000	6.000	
18	6.000	7.000	
19	7.000	8.000	
20	8.000	9.000	
21	9.000	10.000	

CUT

FILL

EARTHWORK ESTIMATES

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR INFORMATION	19.07.24	F
REVISED ARCHITECTURAL MASTERPLAN	08.03.24	E
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ADDITIONAL PARKING ADDED TO WH2, ACOUSTIC WALL & WALL TO WH3	10.07.23	C
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ISSUED FOR INFORMATION	22.06.23	A

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA310

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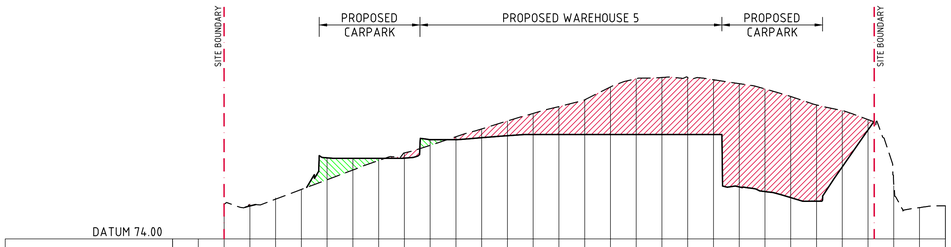
DRAWING TITLE
CUT/FILL PLAN

DRAWING No C013904.03-SSDA310

ISSUE G

LEGEND:

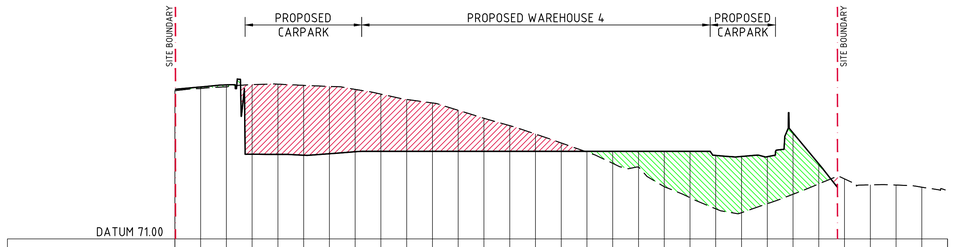
- DENOTES BULK EARTHWORKS PROFILE
- DENOTES EXISTING PROFILE
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL



DATUM 74.00

CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000
EXISTING SURFACE LEVEL			76.682	76.702	77.082	77.836	78.591	79.345	80.083	80.674	81.259	81.926	82.537	83.155	83.738	84.270	84.799	85.393	86.437	86.529	86.518	86.355	86.649	85.641	85.052	84.400	83.963	83.260	78.720	76.423	76.57
BULK EARTHWORKS LEVEL				76.550			80.290	80.256	80.256	80.268	81.703	81.854	82.007	82.100	82.100	82.100	82.100	82.100	82.100	82.100	82.100	82.100	78.032	77.671	77.205	76.927	79.589	82.458			
CUT/FILL DEPTH				-0.151			1.700	0.911	0.173	-0.406	0.445	-0.222	-0.682	-1.148	-1.638	-2.170	-2.699	-3.693	-4.337	-4.429	-4.418	-4.255	-8.017	-7.970	-7.847	-7.473	-4.375	-0.882			

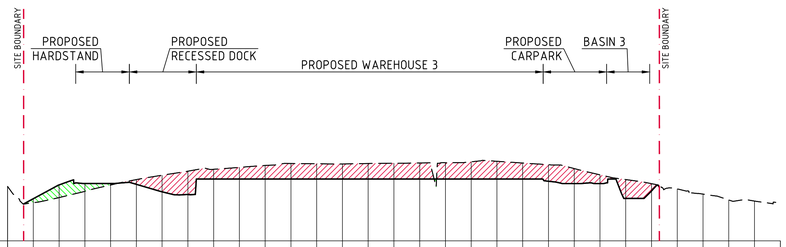
SECTION 1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



DATUM 71.00

CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000
EXISTING SURFACE LEVEL	82.50																														
BULK EARTHWORKS LEVEL			82.796	82.955	82.976	83.012	82.919	82.835	82.699	82.241	81.822	81.551	80.984	80.363	79.792	79.141	78.444	77.739	76.862	76.578	75.652	74.195	73.333	73.032	72.727	72.378	71.860	71.229	70.819		
CUT/FILL DEPTH			0.119	0.147	-5.400	-5.457	-5.426	-5.223	-4.847	-4.441	-4.022	-3.751	-3.384	-2.563	-1.992	-1.341	-0.644	0.061	0.938	1.222	2.748	3.605	4.164	4.366	3.652	4.765	1.551				

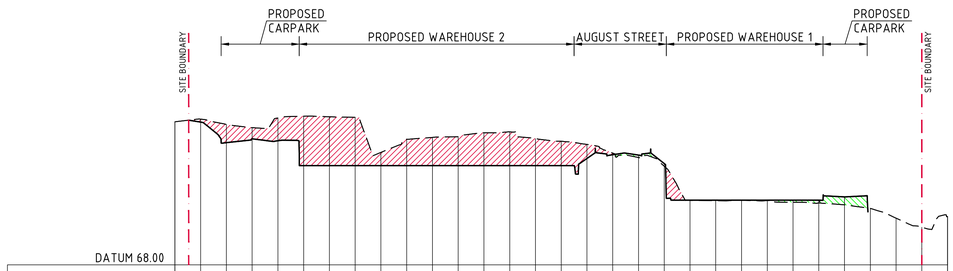
SECTION 2
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



DATUM 73.00

CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000
EXISTING SURFACE LEVEL	77.22	75.969	76.360	76.843	77.336	77.757	78.091	78.408	78.553	78.703	78.853	79.005	78.984	78.974	79.001	79.027	79.047	79.059	79.139	79.174	79.042	78.910	78.612	78.126	77.757	77.436	77.035	76.628	76.174	76.089	
BULK EARTHWORKS LEVEL		76.278	77.344	77.454	77.454	77.384	76.807	76.590	77.800	77.800	77.800	77.800	77.800	77.800	77.800	77.800	77.800	77.800	77.800	77.800	77.800	77.627	77.440	77.440	76.293	76.871					
CUT/FILL DEPTH		0.310	0.984	0.610	0.118	-0.373	-1.284	-1.818	-0.753	-0.903	-1.053	-1.205	-1.184	-1.174	-1.201	-1.227	-1.247	-1.259	-1.339	-1.374	-1.242	-1.283	-1.171	-0.686	-1.464	-0.565					

SECTION 3
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



DATUM 68.00

CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000
EXISTING SURFACE LEVEL	79.10	79.312	78.902	78.651	79.407	79.538	79.499	79.452	78.730	77.759	77.897	77.961	78.248	78.327	77.796	77.596	77.349	76.677	76.326	75.655	73.008	72.982	73.013	72.988	72.860	72.800	72.653	72.378	71.622	70.917	71.75
BULK EARTHWORKS LEVEL		79.079	77.484	77.783	77.635	75.700	75.700	75.700	75.700	75.700	75.700	75.700	75.700	75.700	75.700	75.700	75.700	76.262	76.549	76.520	75.858	73.020	73.020	73.020	73.020	73.020	73.020	73.273			
CUT/FILL DEPTH		-0.234	-1.417	-0.869	-1.772	-3.838	-3.799	-3.752	-1.030	-2.059	-2.197	-2.261	-2.548	-2.627	-2.096	-1.896	-1.087	-0.128	0.194	0.262	0.012	0.038	0.007	0.032	0.160	0.220	0.620				

SECTION 4
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	D
UPDATED ARCHITECTURAL MASTERPLAN	08.03.24	C
UPDATED ARCHITECTURAL MASTERPLAN	11.09.23	B
ISSUED FOR INFORMATION	22.06.23	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA350

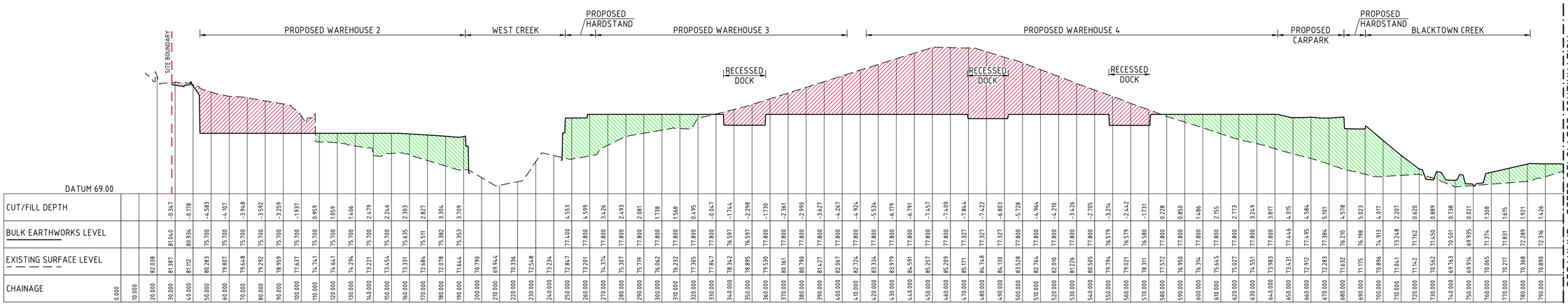
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COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: BULK EARTHWORKS SECTIONS SHEET 1

DRAWING No: C013904.03-SSDA350

ISSUE: D



DATUM 69.00

| CHAINAGE | 0.000 | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 | 60.000 | 70.000 | 80.000 | 90.000 | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 150.000 | 160.000 | 170.000 | 180.000 | 190.000 | 200.000 | 210.000 | 220.000 | 230.000 | 240.000 | 250.000 | 260.000 | 270.000 | 280.000 | 290.000 | 300.000 | 310.000 | 320.000 | 330.000 | 340.000 | 350.000 | 360.000 | 370.000 | 380.000 | 390.000 | 400.000 | 410.000 | 420.000 | 430.000 | 440.000 | 450.000 | 460.000 | 470.000 | 480.000 | 490.000 | 500.000 | 510.000 | 520.000 | 530.000 | 540.000 | 550.000 | 560.000 | 570.000 | 580.000 | 590.000 | 600.000 | 610.000 | 620.000 | 630.000 | 640.000 | 650.000 | 660.000 | 670.000 | 680.000 | 690.000 | 700.000 | 710.000 | 720.000 | 730.000 | 740.000 | 750.000 | 760.000 | 770.000 | 780.000 | 790.000 |
|---|---|---

CATCHMENT 1: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 35
ON-SITE DETENTION VOLUME PROVIDED = 550m3

ESTATE DISCHARGE POINT 1:
REHABILITATED WESTERN SWALE TO DISCHARGE UNDER THE GREAT WESTERN HIGHWAY VIA THE EXISTING CULVERT WITH FALSE HEADWALL WITH 3x⌀900. BLOCKOUTS TO REDUCE EXISTING 3x⌀1150 RCP.

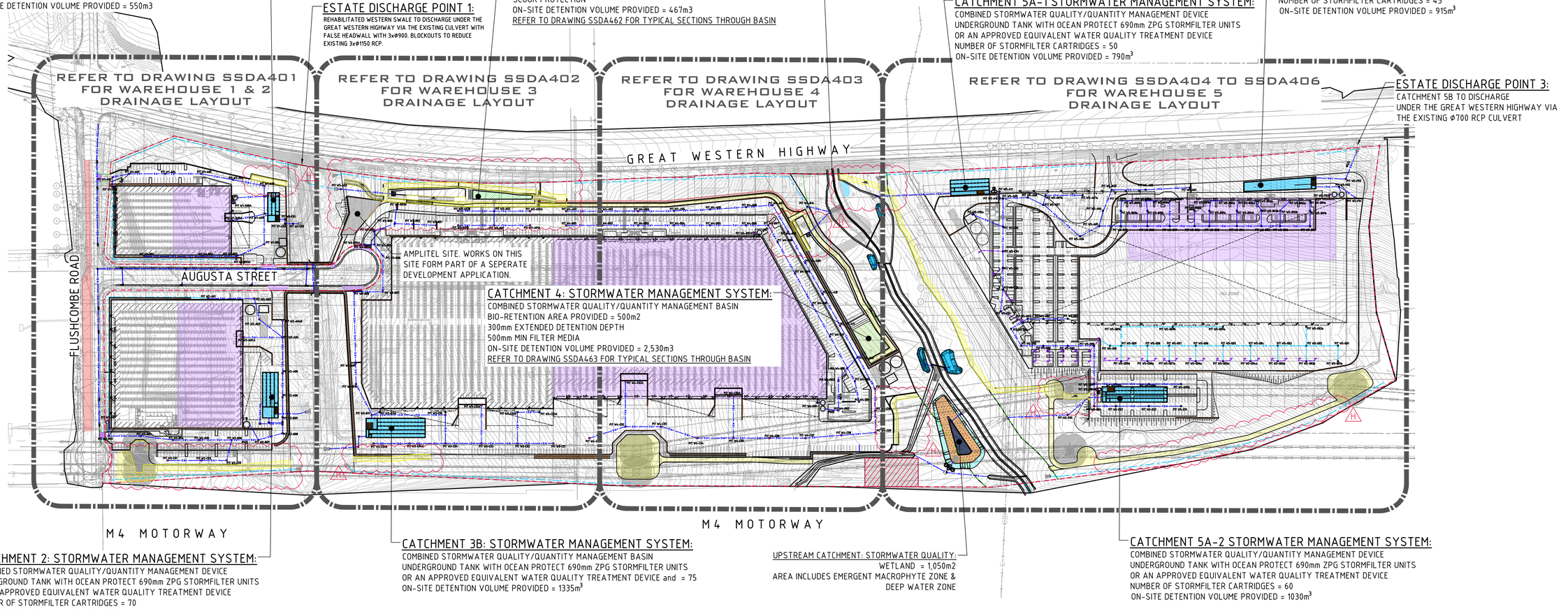
CATCHMENT 3A: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN
BIO-RETENTION AREA PROVIDED = 265m2
300mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA
SURFACE AREA NOMINATED FOR BIO-RETENTION FILTRATION IS EXCLUSIVE OF SCOUR PROTECTION
ON-SITE DETENTION VOLUME PROVIDED = 467m3
REFER TO DRAWING SSDA462 FOR TYPICAL SECTIONS THROUGH BASIN

ESTATE DISCHARGE POINT 2:
REHABILITATED BLACKTOWN CREEK TO DISCHARGE UNDER THE GREAT WESTERN HIGHWAY VIA THE EXISTING CULVERT WITH FALSE HEADWALL WITH 3x⌀900. BLOCKOUTS TO REDUCE EXISTING 3x1150 RCP.

CATCHMENT 5A-1 STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 50
ON-SITE DETENTION VOLUME PROVIDED = 790m^3

CATCHMENT 5B STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 45
ON-SITE DETENTION VOLUME PROVIDED = 915m^3

ESTATE DISCHARGE POINT 3:
CATCHMENT 5B TO DISCHARGE UNDER THE GREAT WESTERN HIGHWAY VIA THE EXISTING ⌀700 RCP CULVERT



CATCHMENT 4: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN
BIO-RETENTION AREA PROVIDED = 500m2
300mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA
ON-SITE DETENTION VOLUME PROVIDED = 2,530m3
REFER TO DRAWING SSDA463 FOR TYPICAL SECTIONS THROUGH BASIN

CATCHMENT 2: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 70
ON-SITE DETENTION VOLUME PROVIDED = 990m3

CATCHMENT 3B: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE and = 75
ON-SITE DETENTION VOLUME PROVIDED = 1335m^3

UPSTREAM CATCHMENT: STORMWATER QUALITY:
WETLAND = 1,050m2
AREA INCLUDES EMERGENT MACROPHYTE ZONE & DEEP WATER ZONE

CATCHMENT 5A-2 STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 60
ON-SITE DETENTION VOLUME PROVIDED = 1030m^3

STORMWATER DRAINAGE KEY PLAN
SCALE 1:1500

STORMWATER DRAINAGE NOTES:
1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS C013904.03-SSDA501.
4. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
5. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
6. PUBLIC DOMAIN DRAINAGE TO BE MIN. CLASS 3 UNDER KERBS, AND CLASS 4 FOR PIPES CROSSING ROADS. ALL BEEING TO BLACKTOWN COUNCIL SPECIFICIATIONS OR MINIMUM HS2. MINIMUM SIZE 375mm.

7a. ALL PRIVATE STORMWATER PIPES ⌀375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.

7b. ALL PRIVATE PIPES UP TO AND INCLUDING ⌀300 TO BE uPVC GRADE SN8 UNO.

8. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
9. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F'c=25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. IN ADDITION TO ITEM 9 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
11. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
12. CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
13. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED ⌀100 uPVC TO EACH SIDE OF PIPE.
14. ALL SUBSOIL DRAINAGE LINES SHALL BE ⌀100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/ LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
15. WHERE SUBSOIL DRAINAGE PASSES UNDER A PAVEMENT OR A SLAB, UNSLOTTED UPVC ARE TO BE PROVIDED UNLESS NOTED OTHERWISE.
16. ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
17. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
18. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
19. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY', THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' U.N.O.
20. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
21. DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE U.N.O. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
22. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.
23. WHERE CONNECTION TO EXISTING INGROUND DRAINAGE SYSTEMS, OPEN SWALES, CHANNELS OR ANY OTHER EXISTING SYSTEM, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND INVERT ON SITE AT THE BEGINNING OF THE CONSTRUCTION PERIOD. REFER ANY VARIANCE FROM DOCUMENTATION OR SURVEYS TO THE ENGINEER FOR CLARIFICATION.

LEGEND:
LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- DP – ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- OVERLAND FLOW DIRECTION
- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS

LEVELS NOTE:
LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED DETAILED SURVEY	29.05.24	F
REVISED ARCHITECTURAL	06.03.24	E
REVISED ARCHITECTURAL	11.09.23	D
ADDITIONAL PARKING ADDED TO WH2, ACOUSTIC WALL & WALL TO WH3	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

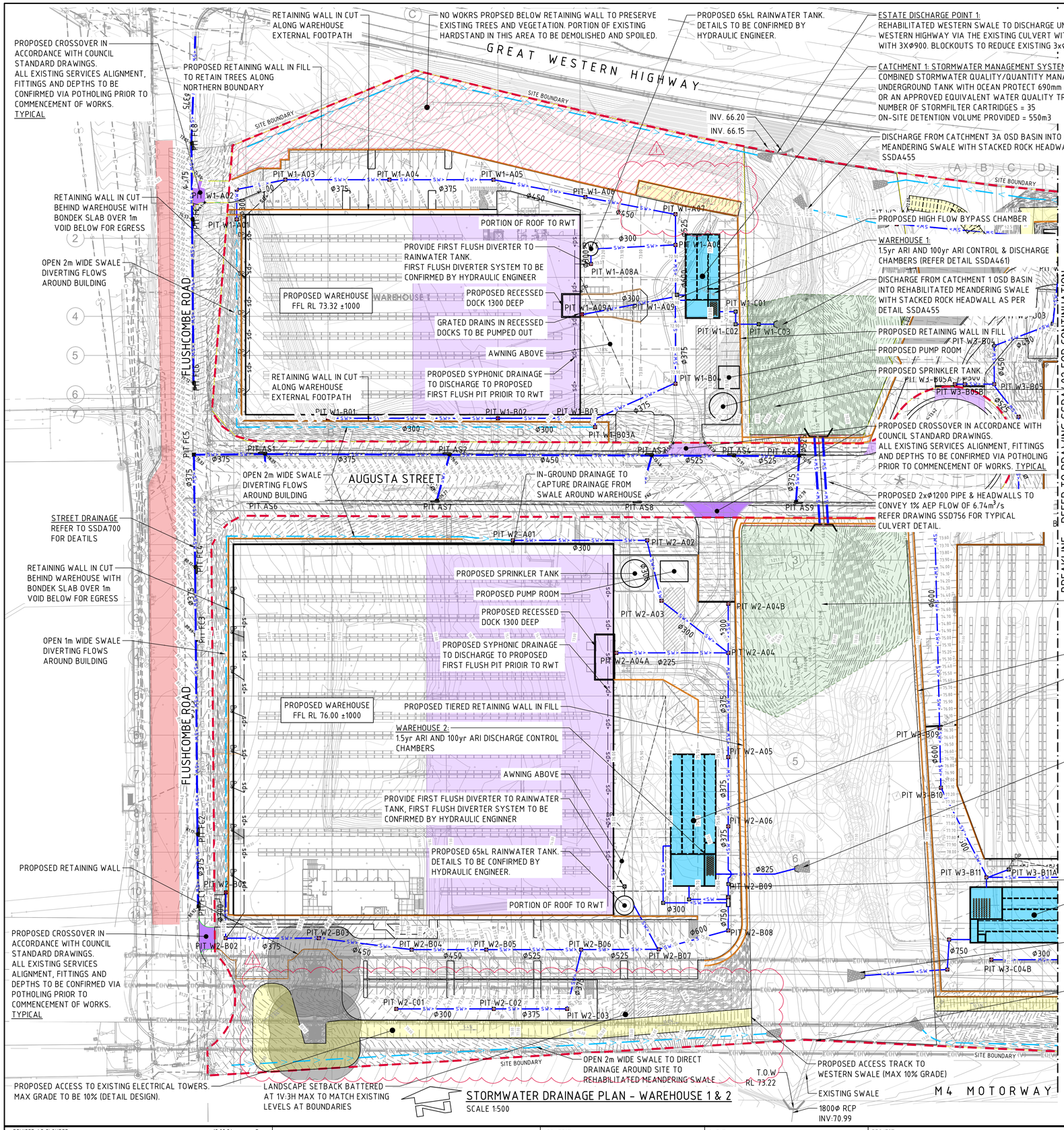
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA400

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CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: STORMWATER DRAINAGE KEY PLAN
DRAWING No: C013904.03-SSDA400
ISSUE: H



STORMWATER DRAINAGE PLAN - WAREHOUSE 1 & 2
SCALE 1:500

WAREHOUSE 1 NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS =25
REFER TO PIT SCHEDULE BELOW.

WAREHOUSE 2 NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS =55
REFER TO PIT SCHEDULE BELOW.

ROOFWATER NOTE:

ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS.
ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES.
REFER ALL CONCERN TO ENGINEER. TYPICAL

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

GENERAL NOTES:

SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA

NOTES:

1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	13.03.24	F
REVISED ARCHITECTURAL MASTERPLAN	06.03.24	E
REVISED ARCHITECTURAL MASTERPLAN	11.09.23	D
ADDITIONAL PARKING TO WH2	10.07.23	C
REVISED AS CLOUDED	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	I
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	H
REVISED DETAILED SURVEY	29.05.24	G

ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA401

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DRAWING TITLE: STORMWATER DRAINAGE PLAN WAREHOUSE 1 & 2
DRAWING No: C013904.03-SSDA401
ISSUE

ESTATE DISCHARGE POINT 1:

REHABILITATED WESTERN SWALE TO DISCHARGE UNDER THE GREAT WESTERN HIGHWAY VIA THE EXISTING CULVERT WITH FALSE HEADWALL WITH 3xØ900. BLOCKOUTS TO REDUCE EXISTING 3xØ1150 RCP.

INV. 66.20

INV. 66.15

PROVIDE SMOOTH TRANSITION BETWEEN EXISTING FLOW PATH TO GWH AND REHABILITATED CREEK CROSS SECTION. MATCH LEVELS AND CROSS SECTION ALLOWING FOR A MINIMUM 1:5 TRANSITION LENGTH. FINAL ARRANGEMENT SUBJECT TO SITE CONDITION AND ON-SITE VERIFICATION.

OPEN 2m WIDE SWALE TO DIRECT DRAINAGE AROUND SITE TO REHABILITATED MEANDERING SWALE

DISCHARGE FROM CATCHMENT 3A OSD BASIN INTO REHABILITATED MEANDERING SWALE WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

REALIGN FLOW PATH FROM NEW CULVERT STRUCTURE TO EXISTING WESTERN SWALE FLOW PATH SHOWN. REMAINDER OF WESTERN SWALE TO REMAIN TO CONSERVE TREES WHERE POSSIBLE. REFER DRAWING SSD756 FOR TYPICAL CULVERT DETAILS TBC AT DETAIL DESIGN

PROPOSED 2xØ1200 PIPE & HEADWALLS TO CONVEY 1% AEP FLOW OF 6.74m³/s REFER DRAWING SSD756 FOR TYPICAL CULVERT DETAILS

REALIGN FLOW PATH FROM NEW CULVERT STRUCTURE TO EXISTING WESTERN SWALE FLOW PATH SHOWN. REMAINDER OF WESTERN SWALE TO REMAIN TO CONSERVE TREES WHERE POSSIBLE. REFER DRAWING SSD756 FOR TYPICAL CULVERT DETAILS TBC AT DETAIL DESIGN

PROPOSED TIERED RETAINING WALL

DISCHARGE FROM CATCHMENT 2 OSD TANK INTO REHABILITATED MEANDERING SWALE WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

CATCHMENT 3B SITE DISCHARGE PONT INTO EXISTING WESTERN WATERCOURSE WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

PROPOSED SERVICING ACCESS ROUTE TO WESTERN SWALE. ALL ACCESS TRACKS TO HAVE A MAX 10% GRADE. TBC DURING DETAIL DESIGN.

T.O.W RL 73.22

1800Ø RCP INV:70.99

LANDSCAPE BATTERED AT 1V:3H MAX TO MATCH REALIGNED SWALE'S RIPARIAN CORRIDOR LEVELS.

AMPLITEL SITE. WORKS ON THIS SITE FORM PART OF A SEPERATE DEVELOPMENT APPLICATION.

GREAT WESTERN HIGHWAY

MAX 1V:2.5H BATTER TO EXISTING LEVELS ON BOUNDARY

CATCHMENT 3A SITE DISCHARGE PONT 1 INTO BIORETENTION BASIN WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

1.5yr ARI AND 100yr ARI CONTROL & DISCHARGE CONTROL CHAMBERS (REFER DETAIL SSDA461)

CATCHMENT 3A: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN
BIO-RETENTION AREA PROVIDED = 265m2
300mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA
SURFACE AREA NOMINATED FOR BIO-RETENTION FILTRATION IS EXCLUSIVE OF SCOUR PROTECTION
ON-SITE DETENTION VOLUME PROVIDED = 467m3
REFER TO DRAWING SSDA462 FOR TYPICAL SECTIONS THROUGH BASIN

PROPOSED MAINTENANCE ACCESS TRACK TO AND AROUND BASIN. ALL ACCESS TRACKS TO HAVE A MAX 10% GRADE. TBC DURING DETAIL DESIGN.

PROPOSED RAINWATER TANKS

RETAINING BY STRUCTURE

ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS. ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES. REFER ALL CONCERN TO ENGINEER. TYPICAL

PROPOSED CROSSOVER IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS. ALL EXISTING SERVICES ALIGNMENT, FITTINGS AND DEPTHS TO BE CONFIRMED VIA POTHOLING PRIOR TO COMMENCEMENT OF WORKS. TYPICAL

RETAINING WALL ALONG RAMP WITH BONDEK SLAB OVER 1m VOID BELOW

REHOUSE 3A

WAREHOUSE 3B

PROPOSED WAREHOUSE FFL RL 78.10 ±1000

CATCHMENT 3B: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE and = 75
ON-SITE DETENTION VOLUME PROVIDED = 1335m³

PROPOSED RECESSED DOCK 1300 DEEP

GRATED DRAINS IN RECESSED DOCK TO BE PUMPED OUT

AWNING ABOVE

AWNING ABOVE

PROPOSED RETAINING WALL

M4 MOTORWAY

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES.

OPEN 2m WIDE SWALE TO DIRECT DRAINAGE AROUND SITE TO REHABILITATED MEANDERING SWALE

PROPOSED TIERED RETAINING WALL

BREAKLINE - REFER TO DRAWING SSDA401 FOR CONTINUATION

BREAKLINE - REFER TO DRAWING SSDA403 FOR CONTINUATION

SITE BOUNDARY

STORMWATER DRAINAGE PLAN - WAREHOUSE 3

SCALE 1:500

NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS
REFER TO PIT SCHEDULE BELOW.

ROOFWATER NOTE:

ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS.
ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES.
REFER ALL CONCERN TO ENGINEER. TYPICAL

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

GENERAL NOTES:

SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

NOTES:

1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA

5m 0 10 20 30 40 50m

SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	13.03.24	F
REVISED ARCHITECTURAL MASTERPLAN	06.03.24	E
REVISED ARCHITECTURAL MASTERPLAN	11.09.23	D
ACOUSTIC BUNDING & WALL TO WH3	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	I
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	H
REVISED DETAILED SURVEY	29.05.24	G

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA402

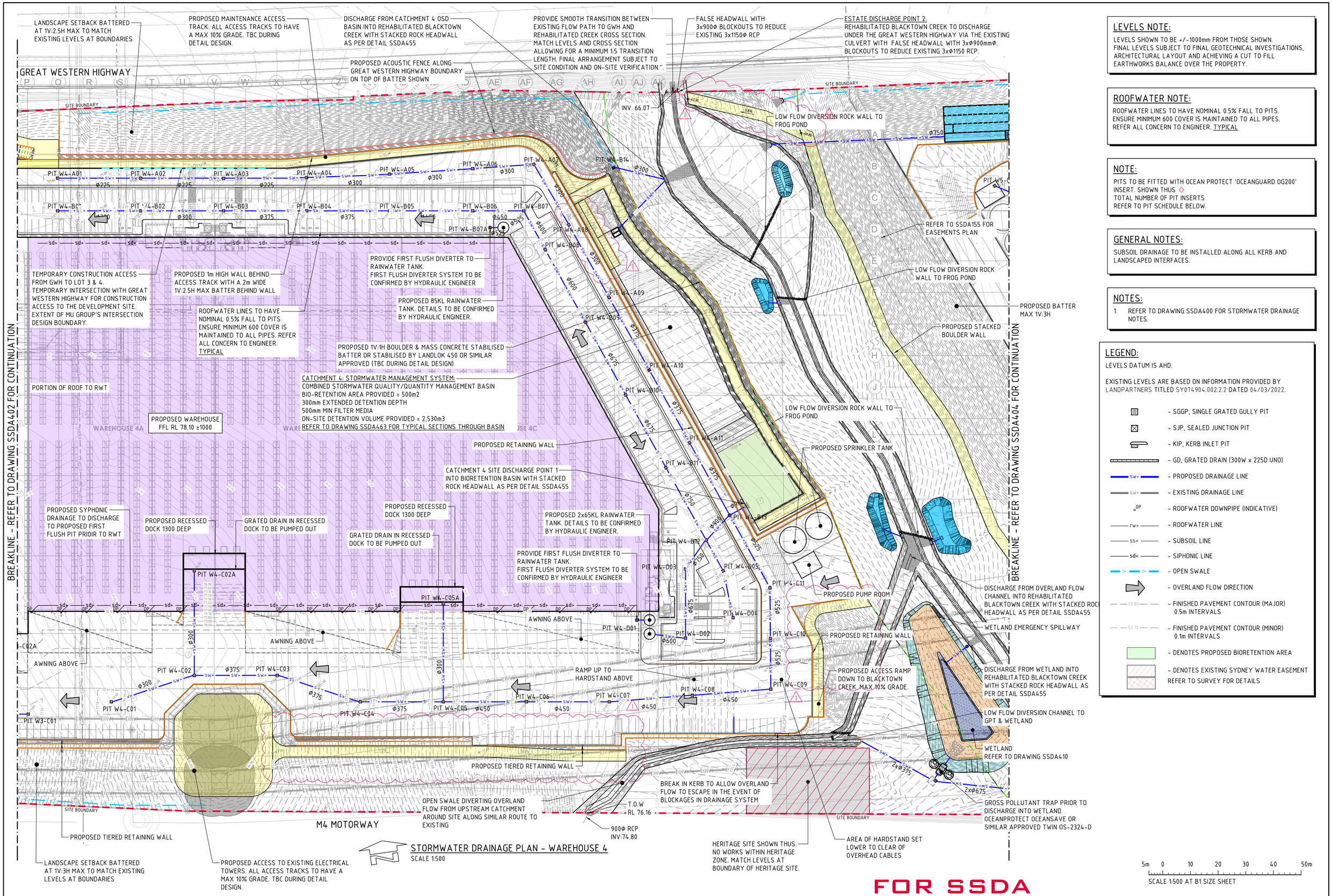
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DRAWING TITLE: STORMWATER DRAINAGE PLAN WAREHOUSE 3

DRAWING No: C013904.03-SSDA402

ISSUE



STORMWATER DRAINAGE PLAN - WAREHOUSE 4
SCALE 1:500

LEVELS NOTE:
LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

ROOFWATER NOTE:
ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS. ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES. REFER ALL CONCERN TO ENGINEER. TYPICAL

NOTE:
PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS
REFER TO PIT SCHEDULE BELOW.

GENERAL NOTES:
SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

NOTES:
1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

LEGEND:
LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA
- DENOTES EXISTING SYDNEY WATER EASEMENT REFER TO SURVEY FOR DETAILS

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	09.05.24	F
REVISED ARCHITECTURAL MASTERPLAN	06.03.24	E
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ARCHITECT: PACE ARCHITECTS
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DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA403

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DRAWING TITLE: STORMWATER DRAINAGE PLAN WAREHOUSE 4
DRAWING No: C013904.03-SSDA403
ISSUE

BREAKLINE - REFER TO DRAWING SSDA403 FOR CONTINUATION

CATCHMENT 5A-1 STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 50
ON-SITE DETENTION VOLUME PROVIDED = 790m³

INTERSECTION WITH GREAT WESTERN HIGHWAY FOR ACCESS TO WAREHOUSE 5. EXTENT OF MU GROUP'S INTERSECTION DESIGN BOUNDARY.

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

GREAT WESTERN HIGHWAY

700ø RCP
INV: 74.06

TOW: 76.04

ESTATE DISCHARGE POINT 2:
CATCHMENT 5B TO DISCHARGE UNDER THE GREAT WESTERN HIGHWAY VIA THE EXISTING 700mm ø RCP CULVERT

EXISTING LEVELS TO BE RETAINED
RETAIN EXISTING TREES

PROVIDE FIRST FLUSH DIVERTER TO RAINWATER TANK.
FIRST FLUSH DIVERTER SYSTEM TO BE CONFIRMED BY HYDRAULIC ENGINEER

PROPOSED 2x65KL RAINWATER TANK. DETAILS TO BE CONFIRMED BY HYDRAULIC ENGINEER.

PROPOSED RETAINING WALL

EXISTING LEVELS TO BE RETAINED BELOW RETAINING WALLS TO RETAIN EXISTING TREES

SITE BOUNDARY

GROSS POLLUTANT TRAP PRIOR TO DISCHARGE INTO COMBINED FILTRATION CHAMBER AND OSD TANK. OCEANPROTECT OCEANSAVE OR SIMILAR APPROVED OS-1612-D

PROPOSED PUMP ROOM

PROPOSED SPRINKLER TANK

PROPOSED RETAINING WALL

SLOPE

CARPARK SET BELOW SUSPENDED WAREHOUSING ABOVE

PORTION OF ROOF TO RWT

PROPOSED RETAINING WALL

CATCHMENT 5B STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 45
ON-SITE DETENTION VOLUME PROVIDED = 915m³

PROPOSED WAREHOUSE FFL RL 82.40 ±1000

WAREHOUSE ROOF EXTENT ABOVE

FILL ZONE

PROPOSED RETAINING WALL IN CUT

SUSPENDED RAMP TO LEVELS ABOVE

PROPOSED BATTER MAX 1V:3H

DROPPER PIPE:
DISCHARGE SUSPENDED DRAINAGE ABOVE TO LEVELS ABOVE

DROPPER PIPE:
DISCHARGE SUSPENDED DRAINAGE ABOVE TO LEVELS ABOVE

WETLAND EMERGENCY SPILLWAY

CULVERT OR SIMILAR BRIDGING STRUCTURE BELOW WAREHOUSE TO EXTERNAL PARKING AREA

DISCHARGE FROM WETLAND INTO REHABILITATED BLACKTOWN CREEK WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

PROPOSED MAINTENANCE ACCESS TRACK AROUND BASIN

WETLAND
REFER TO DRAWING SSDA410 FOR PLAN

2xø675

GROSS POLLUTANT TRAP PRIOR TO DISCHARGE INTO WETLAND. OCEANPROTECT OCEANSAVE OR SIMILAR APPROVED TWIN OS-2324-D

LOW FLOW DIVERSION ROCK WALL TO GPT

TOW: 73.76

1800ø RCP
INV: 71.50

PROVIDE SMOOTH TRANSITION BETWEEN EXISTING FLOW PATH FROM MOTORWAY AND REHABILITATED CREEK CROSS SECTION. MATCH LEVELS AND CROSS SECTION ALLOWING FOR A MINIMUM 1:5 TRANSITION LENGTH. FINAL ARRANGEMENT SUBJECT TO SITE CONDITION AND ON-SITE VERIFICATION.

M4 MOTORWAY

PROPOSED ACCESS TO EXISTING ELECTRICAL TOWERS

CATCHMENT 5A-2 STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT DEVICE
UNDERGROUND TANK WITH OCEAN PROTECT 690mm ZPG STORMFILTER UNITS
OR AN APPROVED EQUIVALENT WATER QUALITY TREATMENT DEVICE
NUMBER OF STORMFILTER CARTRIDGES = 60
ON-SITE DETENTION VOLUME PROVIDED = 1030m³

PROPOSED RETAINING WALL

GROSS POLLUTANT TRAP PRIOR TO DISCHARGE INTO COMBINED FILTRATION CHAMBER AND OSD TANK. OCEANPROTECT OCEANSAVE OR SIMILAR APPROVED OS-1618-D

EXISTING LEVELS TO BE RETAINED BELOW RETAINING WALLS TO RETAIN EXISTING TREES

STORMWATER DRAINAGE PLAN - WAREHOUSE 5 GROUND FLOOR
SCALE 1:500

GENERAL NOTES:
SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

NOTES:
1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

LEGEND:
LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- PROPOSED LEVEL 1 DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- DROPPER PIPE (INDICATIVE) SUSPENDED SLAB/SUSPENDED DRAINAGE
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA
- DENOTES EXISTING SYDNEY WATER EASEMENT
  REFER TO SURVEY FOR DETAILS

NOTE:
PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS
REFER TO PIT SCHEDULE BELOW.

ROOFWATER NOTE:
ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS.
ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES.
REFER ALL CONCERN TO ENGINEER. TYPICAL

LEVELS NOTE:
LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	09.05.24	F
REVISED ARCHITECTURAL	06.03.24	E
REVISED ARCHITECTURAL	11.09.23	D
REVISED AS CLOUDED	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	I
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	H
REVISED DETAILED SURVEY	29.05.24	G

ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA404

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CRC COSTIN ROE CONSULTING
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DRAWING TITLE: STORMWATER DRAINAGE PLAN
WAREHOUSE 5 GROUND FLOOR

DRAWING No: C013904.03-SSDA404
ISSUE: I

DISCHARGE FROM CATCHMENT 4 OSD BASIN INTO REHABILITATED BLACKTOWN CREEK WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

PROVIDE SMOOTH TRANSITION BETWEEN EXISTING FLOW PATH TO GWH AND REHABILITATED CREEK CROSS SECTION. MATCH LEVELS AND CROSS SECTION ALLOWING FOR A MINIMUM 1:5 TRANSITION LENGTH. FINAL ARRANGEMENT SUBJECT TO SITE CONDITION AND ON-SITE VERIFICATION.".

FALSE HEADWALL WITH 3x900ø BLOCKOUTS TO REDUCE EXISTING 3x1150ø RCP

ESTATE DISCHARGE POINT 2:
REHABILITATED BLACKTOWN CREEK TO DISCHARGE UNDER THE GREAT WESTERN HIGHWAY VIA THE EXISTING CULVERT WITH FALSE HEADWALL WITH 3X 900mmø. BLOCKOUTS TO REDUCE EXISTING 3X 1150mmø RCP.

GREAT WESTERN HIGHWAY

1% AEP FLOW 4.4m³/s

PERMANENT POND 2 AT LEAST 10m X 5m.

LOW FLOW DIVERSION ROCK WALL TO FROG POND

PROPOSED RETAINING WALL

24/40MPA 160H PRECAST BOUNDARY PANEL WITH PRENISHED METAL SHEETING ABOVE

CATCHMENT 4: STORMWATER MANAGEMENT STRUCTURE:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN
BIO-RETENTION AREA PROVIDED = 650m2
300mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA
ON-SITE DETENTION VOLUME PROVIDED = 2,530m3

EPHEMERAL POND 2 AT LEAST 10m X 5m.

WAREHOUSE 4 REFER DRAWING SSDA403 & SSDA503

CATCHMENT 4 SITE DISCHARGE POINT 1 INTO BIORETENTION BASIN WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

EPHEMERAL POND 1 AT LEAST 20m X 5m.

LOW FLOW DIVERSION ROCK WALL TO FROG POND

DISCHARGE FROM OVERLAND FLOW CHANNEL INTO REHABILITATED BLACKTOWN CREEK WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

PROPOSED ACCESS RAMP DOWN TO BLACKTOWN CREEK. MAX 10% GRADE.

Q1 = 0.54m³/s

LOW FLOW DIVERSION ROCK WALL TO GPT

BREAK IN KERB TO ALLOW OVERLAND FLOW TO ESCAPE IN THE EVENT OF BLOCKAGES IN DRAINAGE SYSTEM

OPEN SWALE DIVERTING OVERLAND FLOW FROM UPSTREAM CATCHMENT AROUND SITE ALONG SIMILAR ROUTE TO EXISTING.

1% AEP FLOW 1.75m³/s

T.O.W RL 76.16

HERITAGE AREA

HERITAGE ZONE REFER TO ARCHITECTS DRAWINGS

900ø RCP INV:74.80

M4 MOTORWAY

SITE BOUNDARY

PROPOSED WETLAND REFER DRAWING C013904.03-SSDA466 FOR TYPICAL WETLAND DETAILS

IL70.85

IL72.15

LOW FLOW DIVERSION CHANNEL TO GPT & WETLAND. DIVERT APPROXIMATELY 0.27m³/s TO GPT

GROSS POLLUTANT TRAP PRIOR TO DISCHARGE INTO WETLAND. OCEANPROTECT OCEANSAVE OR SIMILAR APPROVED TWIN OS-2324-D

1% AEP FLOW 9.17m³/s

PROPOSED MAX 1V:3H BATTER FROM HARDSTAND FSL TO BASIN ACCESS ROAD BELOW

WAREHOUSE 5 REFER DRAWING SSDA404 & SSDA504

PERMANENT POND 1 AT LEAST 20m X 10m.

EMERGENCY WETLAND SPILLWAY

DISCHARGE FROM WETLAND INTO REHABILITATED BLACKTOWN CREEK WITH STACKED ROCK HEADWALL AS PER DETAIL SSDA455

SHUT OFF VALVE

LOW FLOW DIVERSION CHANNEL TO GPT & WETLAND. DIVERT APPROXIMATELY 1.20m³/s TO GPT

1% AEP FLOW 7.60m³/s

LOW FLOW DIVERSION ROCK WALL TO GPT

Q1 = 2.408m³/s

IL71.40

PROVIDE SMOOTH TRANSITION BETWEEN EXISTING FLOW PATH FROM MOTORWAY AND REHABILITATED CREEK CROSS SECTION. MATCH LEVELS AND CROSS SECTION ALLOWING FOR A MINIMUM 1:5 TRANSITION LENGTH. FINAL ARRANGEMENT SUBJECT TO SITE CONDITION AND ON-SITE VERIFICATION.

BLACKTOWN CREEK REALIGNMENT PLAN
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

LEGEND:

- FRESHWATER WETLAND
- EMERGENT ZONE
- DEEP WATER ZONE
- DENOTES BIO-RETENTION ZONE

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA
- DENOTES EXISTING SYDNEY WATER EASEMENT REFER TO SURVEY FOR DETAILS

NOTES:

1. REFER TO DRAWINGS SSDA550 TO SSDA 552 FOR SECTIONS THROUGH BLACKTOWN CREEK

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	13.03.24	F
REVISED ARCHITECTURAL MASTERPLAN	06.03.24	E
REVISED ARCHITECTURAL	11.09.23	D
REVISED AS CLOUDED	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	I
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	H
REVISED AS CLOUDED	07.05.24	G

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA410

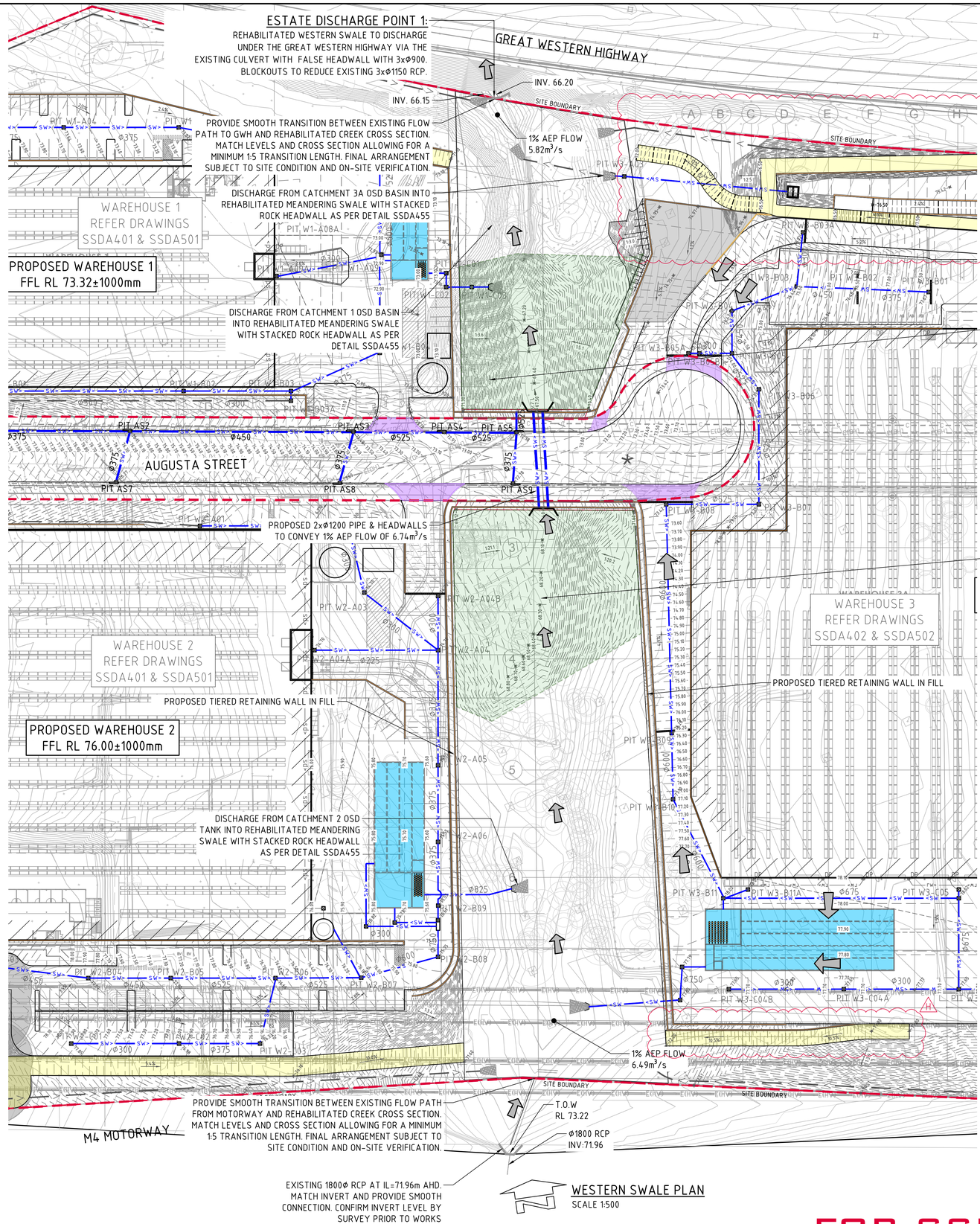
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DRAWING TITLE: BLACKTOWN CREEK REALIGNMENT PLAN

DRAWING No: C013904.03-SSDA410

ISSUE: I



WESTERN SWALE PLAN
SCALE 1:500

NOTES:
1. REFER TO DRAWINGS SSDA553 FOR SECTIONS THROUGH EXISTING WESTERN WATERCOURSE

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	13.03.24	F
REVISED ARCHITECTURAL MASTERPLAN	06.03.24	E
REVISED ARCHITECTURAL	11.09.23	D
REVISED AS CLOUDED	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

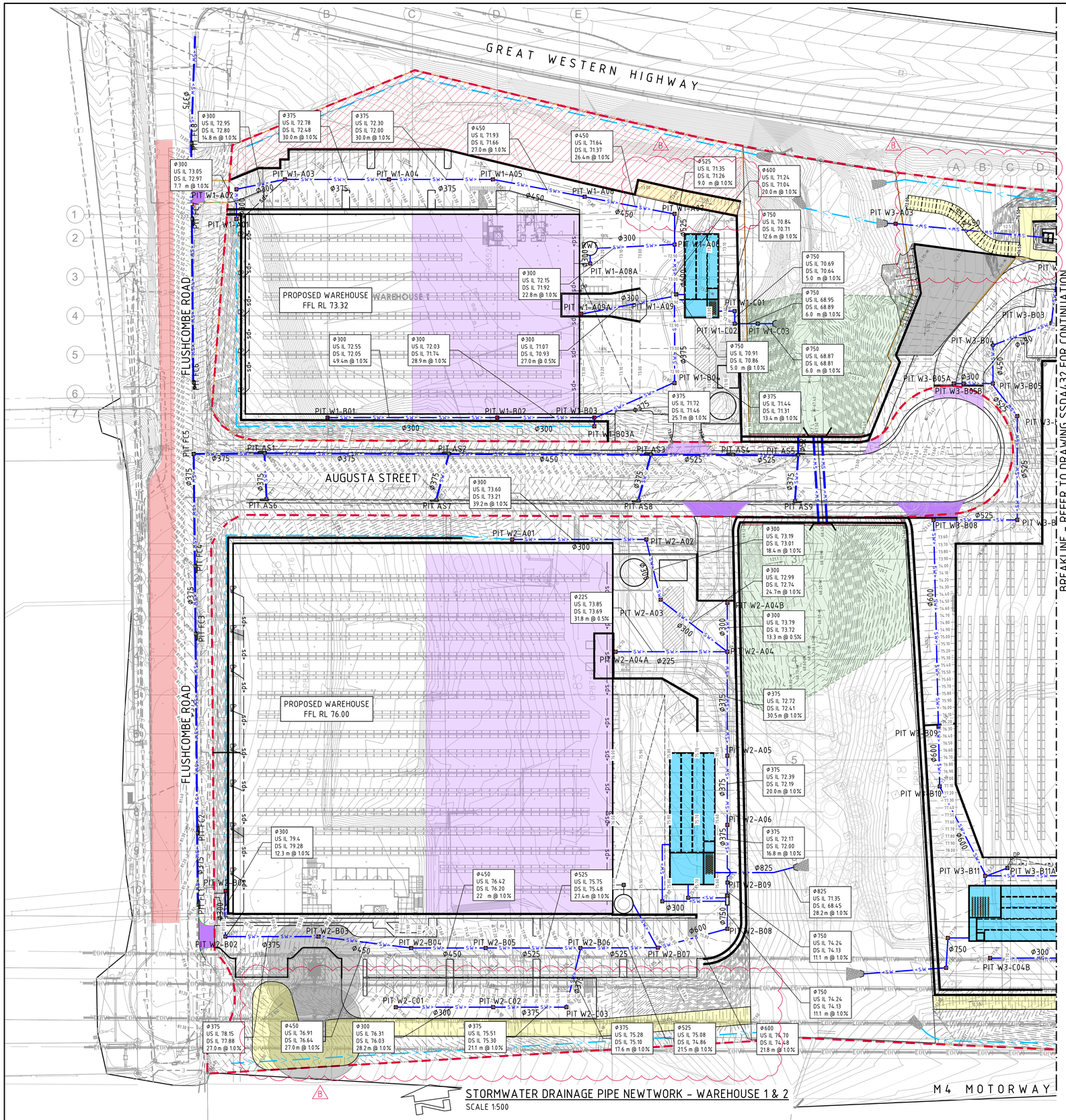
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA415

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DRAWING TITLE: WESTERN SWALE PLAN
DRAWING No: C013904.03-SSDA415
ISSUE: H



STORMWATER DRAINAGE PIPE NEWTWORK - WAREHOUSE 1 & 2
SCALE 1:500

WAREHOUSE 1 NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS =25
REFER TO PIT SCHEDULE BELOW.

WAREHOUSE 2 NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS =55
REFER TO PIT SCHEDULE BELOW.

ROOFWATER NOTE:

ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS.
ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES.
REFER ALL CONCERN TO ENGINEER. TYPICAL

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

GENERAL NOTES:

SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA

NOTES:

1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	A

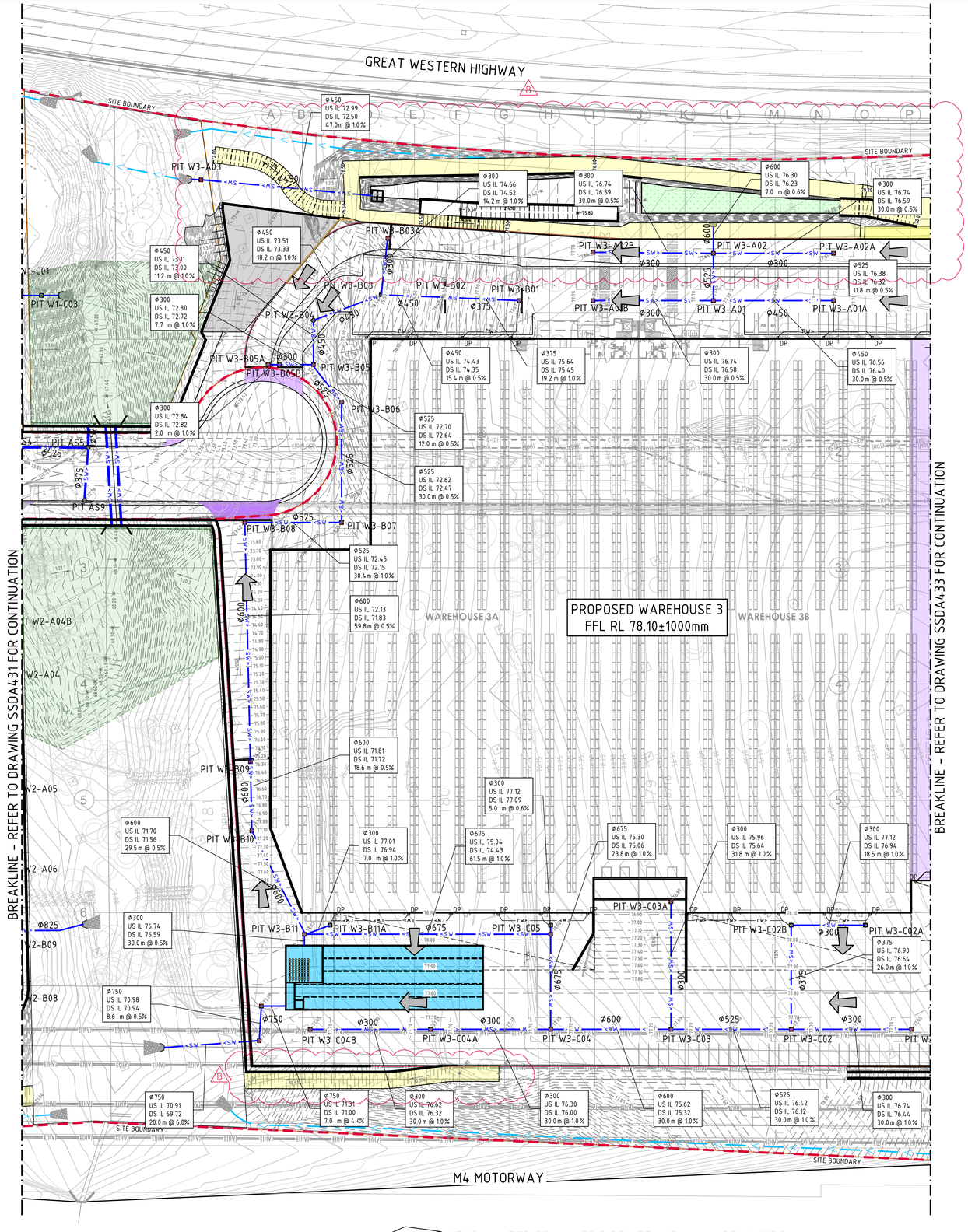
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA431

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DRAWING TITLE: STORMWATER DRAINAGE PIPE NETWORK WAREHOUSE 1 & 2
DRAWING No: C013904.03-SSDA431
ISSUE: B



STORMWATER DRAINAGE PIPE NETWORK - WAREHOUSE 3
SCALE 1:500

NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS
REFER TO PIT SCHEDULE BELOW.

ROOFWATER NOTE:

ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS.
ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES.
REFER ALL CONCERN TO ENGINEER. TYPICAL

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

GENERAL NOTES:

SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

NOTES:

1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	A

ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA432

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DRAWING TITLE: STORMWATER DRAINAGE PIPE NETWORK WAREHOUSE 3
DRAWING No: C013904.03-SSDA432
ISSUE: B

GREAT WESTERN HIGHWAY

SITE BOUNDARY

PROPOSED WAREHOUSE 4
FFL RL 78.10±1000mm

PORTION OF ROOF TO RWT

BREAKLINE – REFER TO DRAWING SSDA432 FOR CONTINUATION

BREAKLINE – REFER TO DRAWING SSDA434 FOR CONTINUATION

M4 MOTORWAY

SITE BOUNDARY

SITE BOUNDARY

STORMWATER DRAINAGE PIPE NETWORK – WAREHOUSE 4
SCALE 1:500

LEVELS NOTE:
LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

ROOFWATER NOTE:
ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS.
ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES.
REFER ALL CONCERN TO ENGINEER. TYPICAL

NOTE:
PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS
REFER TO PIT SCHEDULE BELOW.

GENERAL NOTES:
SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

NOTES:
1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

LEGEND:
LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- SIPHONIC LINE
- OPEN SWALE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES PROPOSED BIORETENTION AREA
- DENOTES EXISTING SYDNEY WATER EASEMENT
  REFER TO SURVEY FOR DETAILS

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

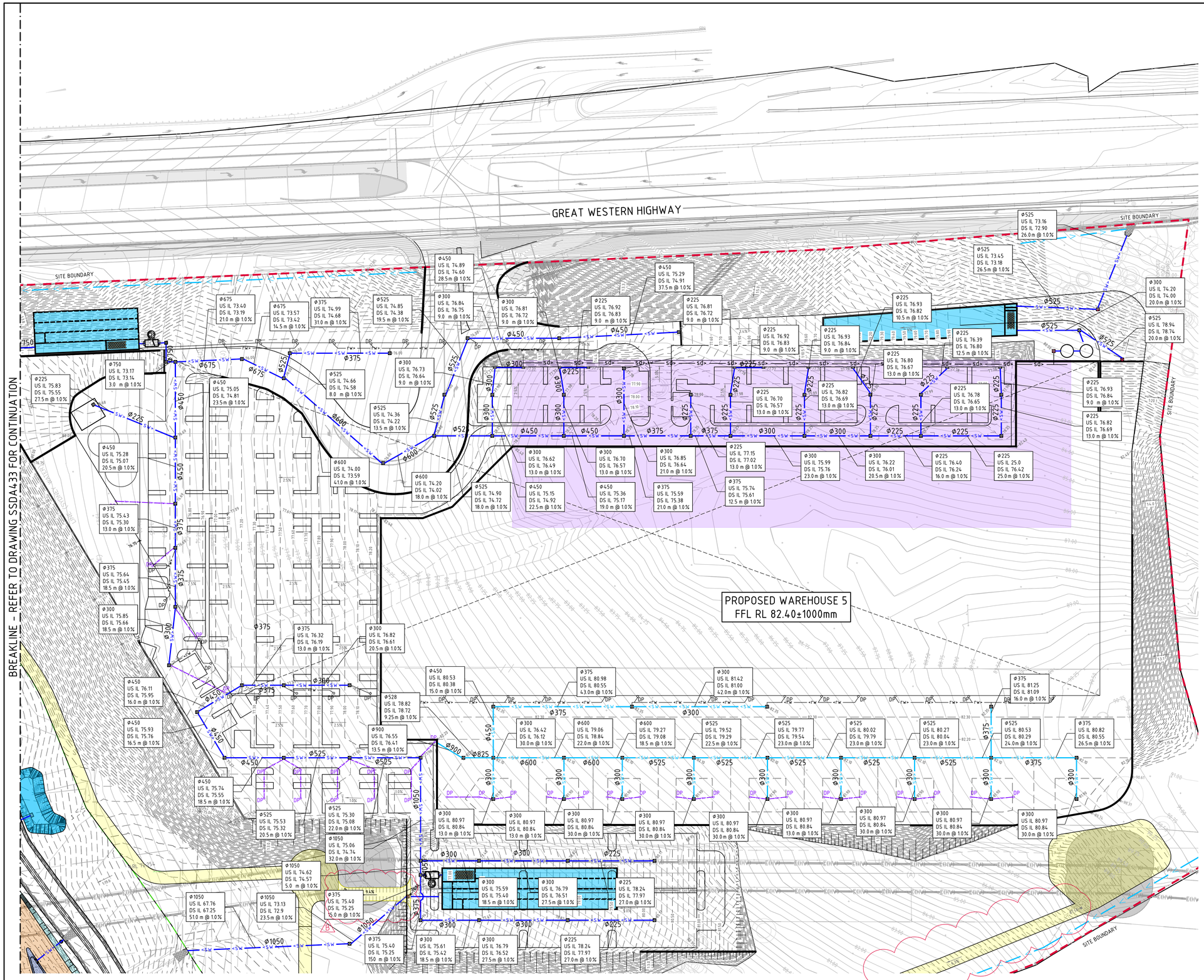
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA433

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DRAWING TITLE: STORMWATER DRAINAGE PIPE NEWTWORK WAREHOUSE 4

DRAWING No: C013904.03-SSDA433 ISSUE: B



STORMWATER DRAINAGE PIPE NETWORK - WAREHOUSE 5
SCALE 1:500

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

ROOFWATER NOTE:

ROOFWATER LINES TO HAVE NOMINAL 0.5% FALL TO PITS.
ENSURE MINIMUM 600 COVER IS MAINTAINED TO ALL PIPES.
REFER ALL CONCERN TO ENGINEER. TYPICAL

NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT 'OCEANGUARD OG200' INSERT. SHOWN THUS ◇
TOTAL NUMBER OF PIT INSERTS
REFER TO PIT SCHEDULE BELOW.

GENERAL NOTES:

SUBSOIL DRAINAGE TO BE INSTALLED ALONG ALL KERB AND LANDSCAPED INTERFACES.

NOTES:

1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
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- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
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- SIPHONIC LINE
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- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
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- DENOTES PROPOSED BIORETENTION AREA
- DENOTES EXISTING SYDNEY WATER EASEMENT REFER TO SURVEY FOR DETAILS

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	A

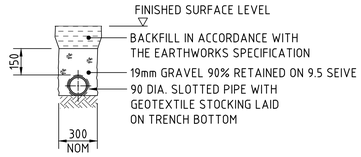
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA434

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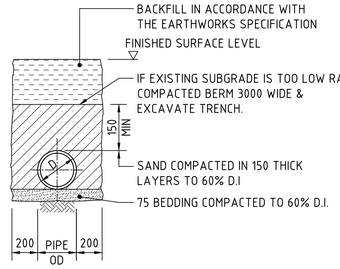
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DRAWING TITLE: STORMWATER DRAINAGE PIPE NEWTWORK WAREHOUSE 5
DRAWING No: C013904.03-SSDA434
ISSUE: B



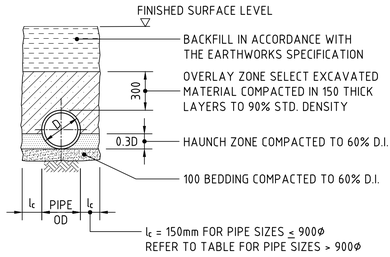
SUPPORT TO AGRICULTURAL DRAIN

SCALE 1:20



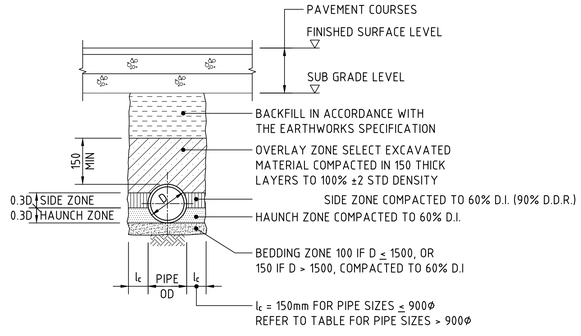
SUPPORT TO uPVC PIPES

SCALE 1:20



TYPE H1 SUPPORT TO CONCRETE PIPES AT LANDSCAPED AREAS

SCALE 1:20

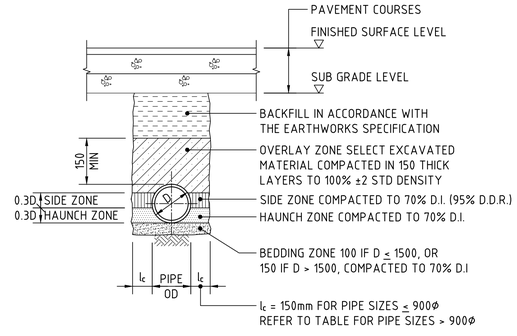


TYPE HS2 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT

SCALE 1:20

D ≤ 1350, MAX FILL = 4.0m

D > 1350, MAX FILL = 3.0m

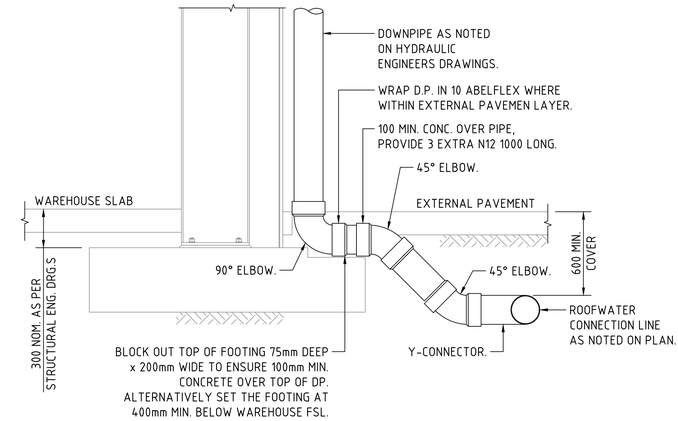


TYPE HS3 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT

SCALE 1:20

D ≤ 1050, MAX FILL = 6.0m

D > 1050, MAX FILL = 4.8m



DOWNPIPE TURN-UP DETAIL A

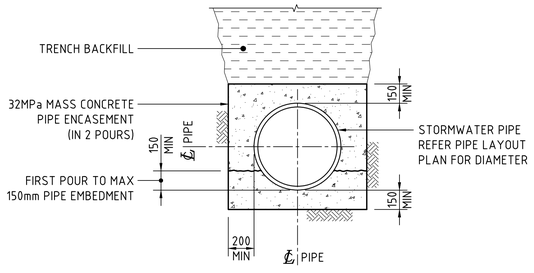
(AT FOOTING LOCATION)

SCALE 1:20

BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SIDE ZONE WIDTH	
PIPE SIZE (mm)	l_c (mm)
≤ 900Ø	150
1050Ø	175
1200Ø	200
1350Ø	225
1500Ø	250
1650Ø	275
1800Ø	300
ENGINEER TO SPECIFY TRENCH WIDTHS FOR PIPE SIZES GREATER THAN 1800Ø	

SIDE ZONE MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
9.5	100 TO 50
2.6	100 TO 30
0.60	50 TO 15
0.075	25 TO 0
SELECT FILL MATERIAL IN ACCORDANCE WITH TABLE 1 AS 3725	

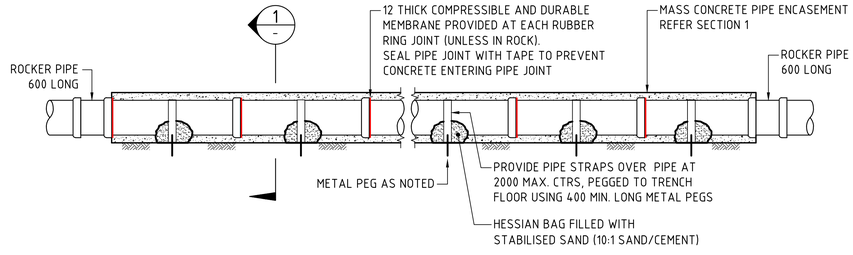


SECTION 1:20 — 1 / –

TYPICAL ACROSS PIPE

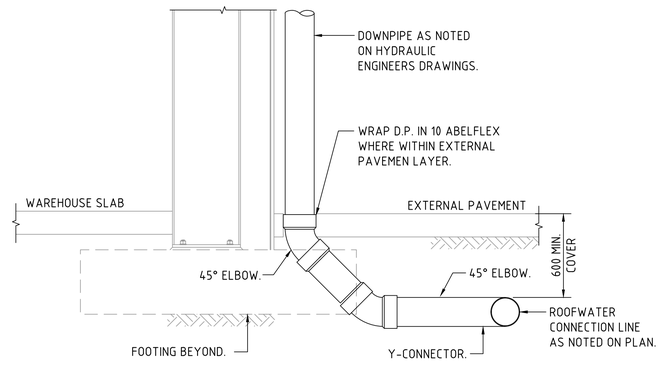
NOTE :

DURING THE ENCASEMENT PROCESS THE CONTRACTOR IS TO PROVIDE SUPPORT TO THE PIPE TO PREVENT PIPE MOVEMENT AND/OR FLOAT. CONCRETE ENCASEMENT TO BE INSTALLED IN 2 POURS.



STORMWATER PIPE CONCRETE ENCASEMENT TYPICAL DETAIL

SCALE 1:50



DOWNPIPE TURN-UP DETAIL B

(CLEAR OF FOOTING)

SCALE 1:20

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA450

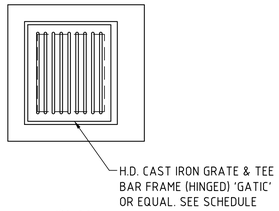
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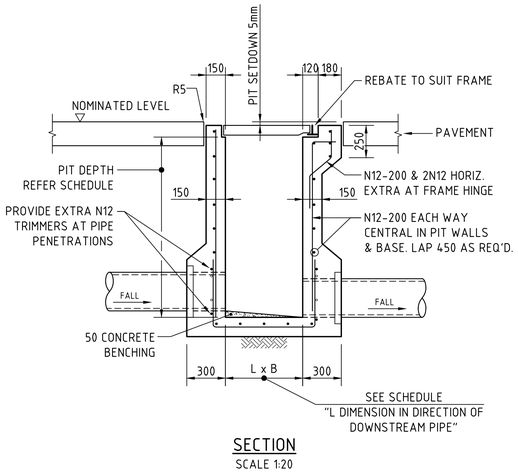
CRC COSTIN ROE CONSULTING — CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: STORMWATER DRAINAGE DETAILS SHEET 1

DRAWING No: C013904.03-SSDA450 ISSUE: B

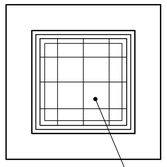


PLAN
SCALE 1:20

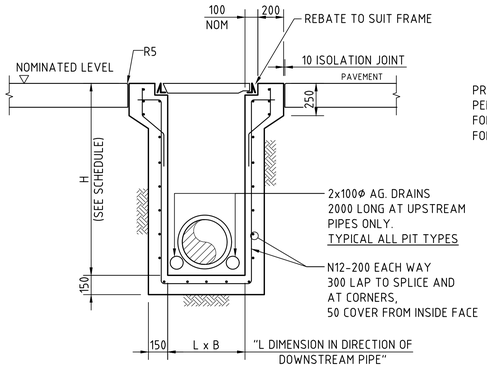


SECTION
SCALE 1:20

SINGLE GRATED GULLY PIT - SGGP

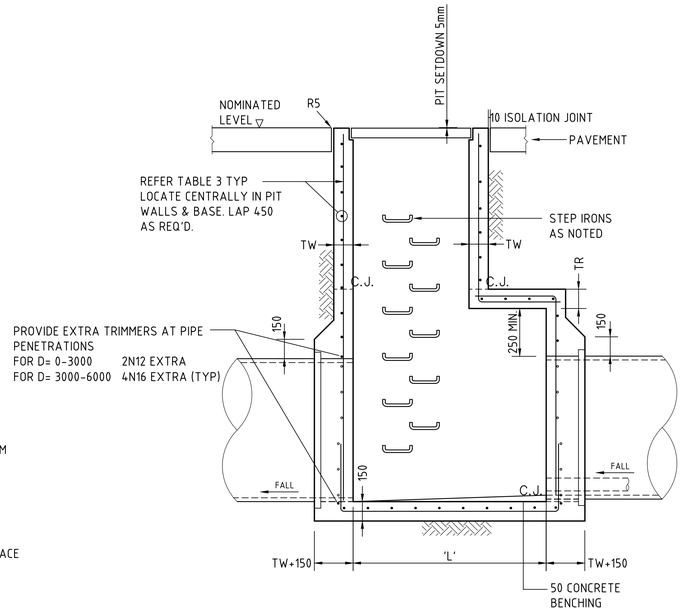


PLAN
SCALE 1:20

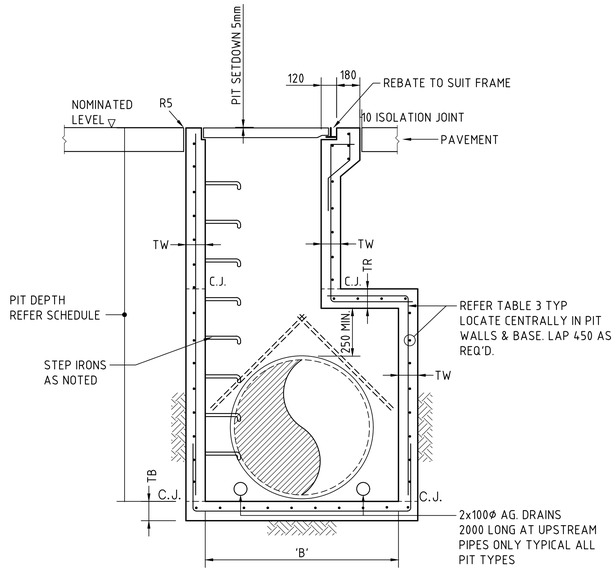


SECTION
SCALE 1:20

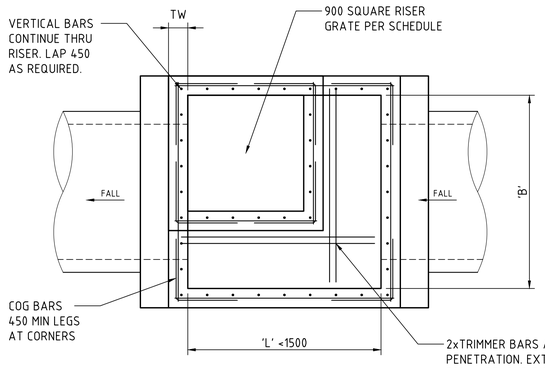
SEALED JUNCTION PIT - SJP



SECTION
SCALE 1:20



SECTION
SCALE 1:20

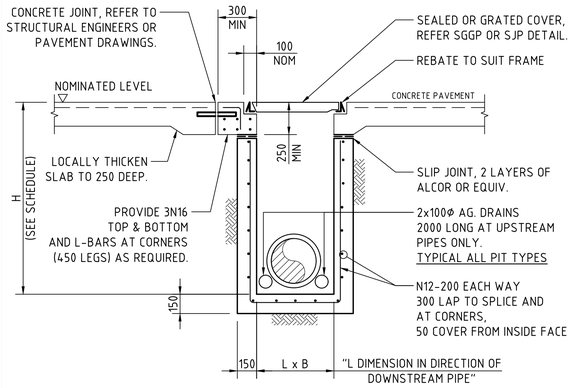


PLAN
SCALE 1:20

TAPERED SINGLE GRATED GULLY PIT - SGGP

SUBSOIL NOT SHOWN
FOR CLARITY.

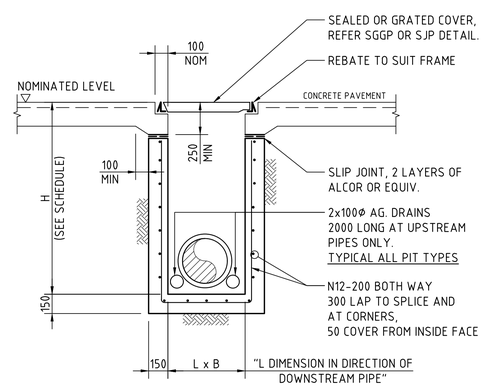
TABLE 3 - TAPERED CLASS D PIT REINFORCEMENT & WALL THICKNESS						
DEPTH 'H'	WALL THICKNESS 'TW'	WALL REINFORCEMENT	ROOF THICKNESS 'TR'	ROOF REINFORCEMENT	BASE THICKNESS 'TB'	BASE REINFORCEMENT
<1.5m	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY
1.5m-3.0m	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY
3.0m-4.5m	200mm	N16-200 EACH WAY	200mm	N16-200 EACH WAY	200mm	N12-200 EACH WAY
4.5-6.0	250mm	N16-200 EACH WAY	250mm	N16-200 EACH WAY	250mm	N16-200 EACH WAY



SECTION
SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENT FOR SGGP's & SJP's, WHERE PITS ARE LOCATED IN THE CORNER OF SLAB PANELS OR ADJACENT TO SLAB PANEL JOINTS)



SECTION
SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENTS FOR SGGP's & SJP's, WHERE JOINTS ARE NOT LOCATED WITHIN PROXIMITY OF THE GRATE)

FOR SSDA

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

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ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

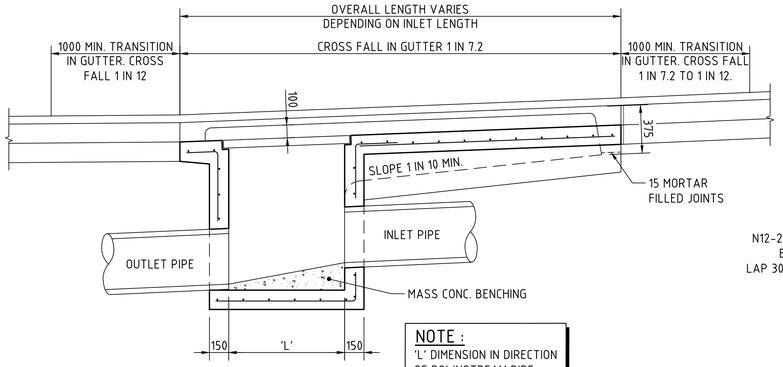
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA451

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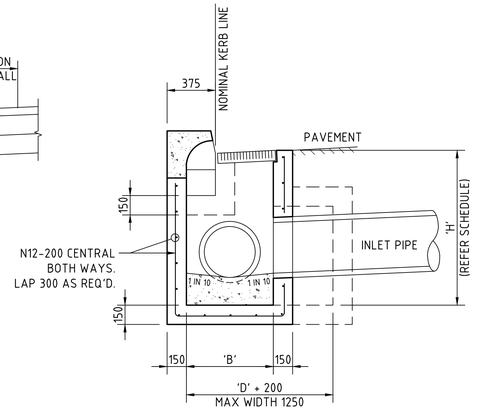
DRAWING TITLE
STORMWATER DRAINAGE DETAILS
SHEET 2

DRAWING No C013904.03-SSDA451 ISSUE B

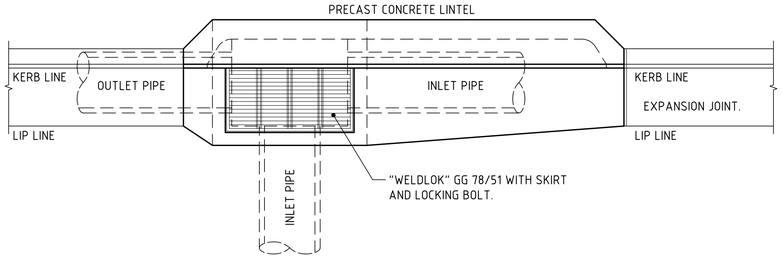


NOTE :
'L' DIMENSION IN DIRECTION OF DOWNSTREAM PIPE

LONG SECTION
SCALE 1:20



CROSS SECTION
SCALE 1:20



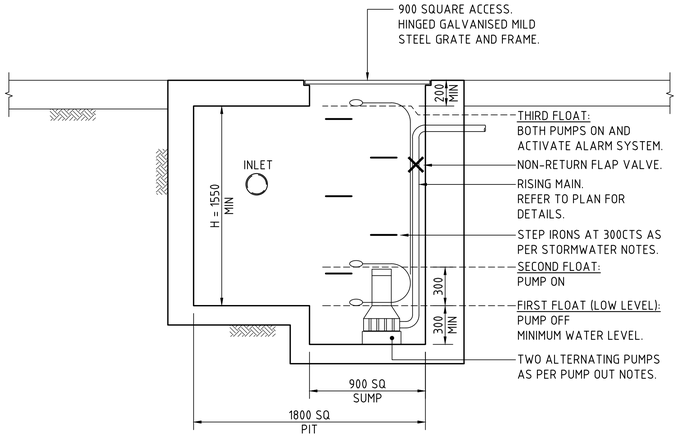
PLAN
SCALE 1:20

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
PIT	80	20	GP	NIL	32

NOTE :

1. WHERE GULLY PIT IS LOCATED ON KERB RETURNS OR BULB OF CUL-DE-SACS PROVIDE CURVED PRECAST CONCRETE LINTELS.
2. SAG PITS SHALL HAVE LINTEL PLACED CENTRALLY ABOUT THE GRATE.
3. ALL REINFORCING TO HAVE 30 MIN. CLAER CONCRETE COVER.
4. FOR PITS DEEPER THAN 1000mm CLIMB RAILS SHALL BE PROVIDED.

KERB INLET PIT - KIP



PUMP OUT PIT DETAIL
SCALE 1:20
REFER TYPICAL PIT DETAILS FOR ALL ITEMS NOT LABELED.

BASEMENT PUMP OUT NOTES:

PUMP SYSTEM IS TO CONSIST OF DUAL ALTERNATING PUMPS. THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER:

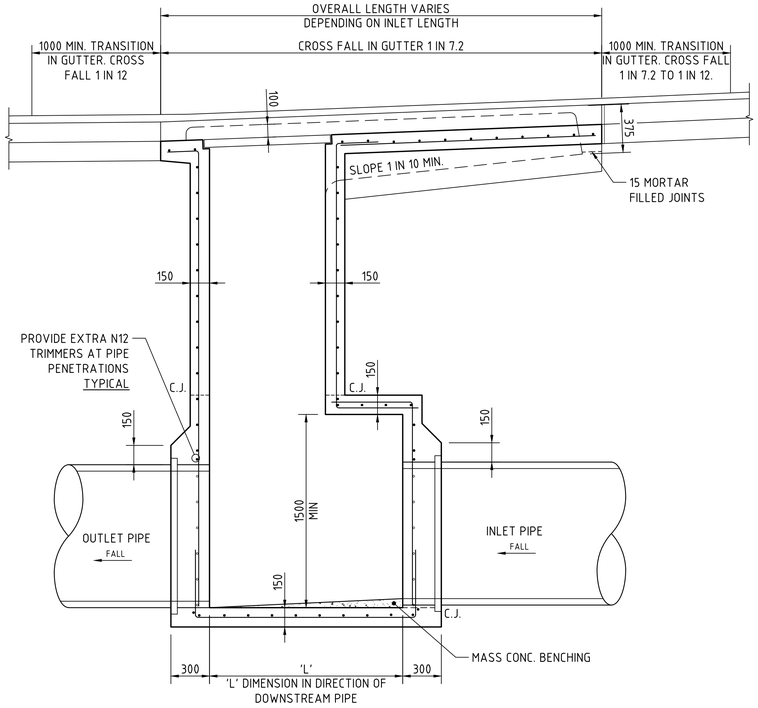
Q PUMP = 25 L/s VOLUME = 5.0 m^3 (MIN.)
THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE PIT . IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.

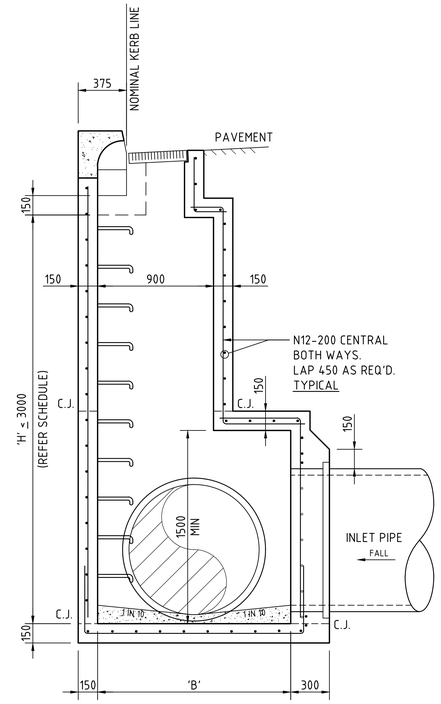
A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE PIT TO THE LEVEL OF THE LOW-LEVEL FLOAT.

A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE TOP LEVEL OF THE PIT. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

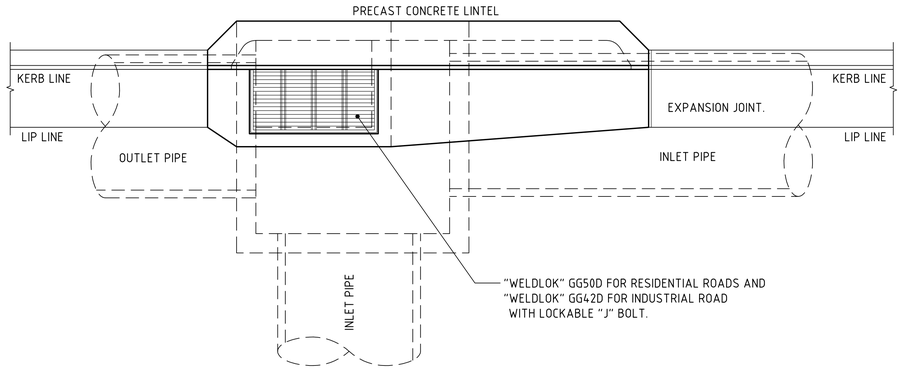
AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.



LONG SECTION
SCALE 1:20



CROSS SECTION
SCALE 1:20



PLAN
SCALE 1:20

TAPERED KERB INLET PIT - KIP
SUBSOIL NOT SHOWN FOR CLARITY

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR SSDA

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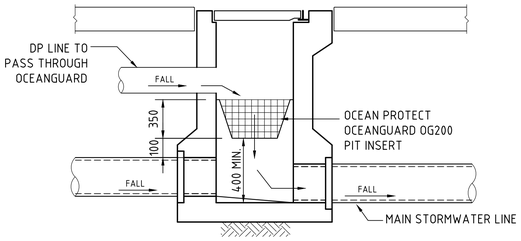
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CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA452

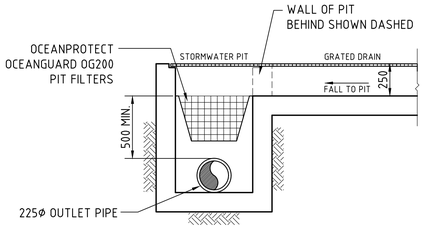
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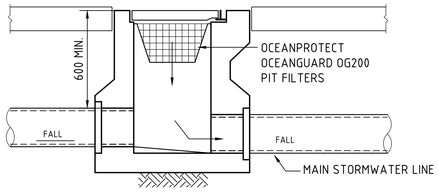
DRAWING TITLE: STORMWATER DRAINAGE DETAILS SHEET 3
DRAWING No: C013904.03-SSDA452
ISSUE: B



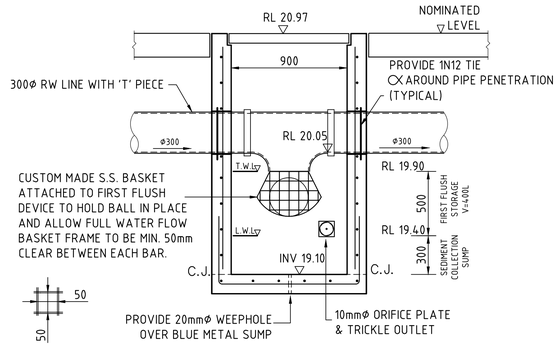
ROOFWATER/STORMWATER PIT WITH
OCEANGUARD CONFIGURATION
SCALE 1:20



GRATED DRAIN/STORMWATER PIT WITH OCEANPROTECT
OCEANGUARD OG200 PIT CONFIGURATION
SCALE 1:20

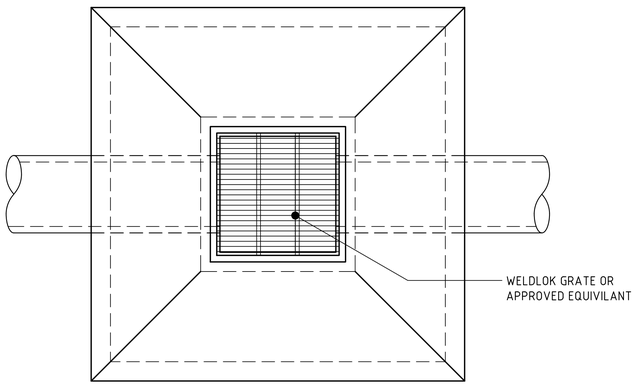


STORMWATER PIT WITH OCEANPROTECT
OCEANGUARD OG200 PIT CONFIGURATION
SCALE 1:20

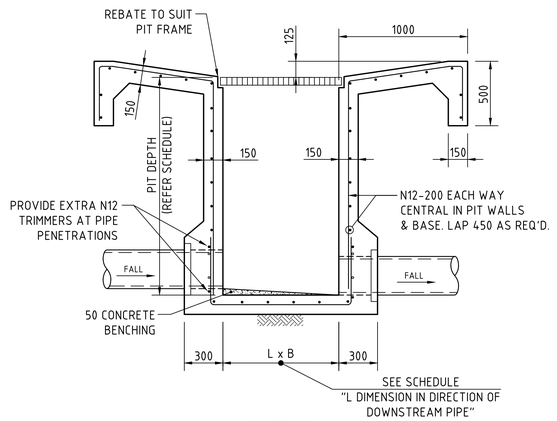


FIRST FLUSH PIT DETAIL
SCALE 1:20

OCEANGUARD OG200 PIT CONFIGURATION



PLAN
SCALE 1:20



SECTION
SCALE 1:20

FIELD INLET PIT - FIP

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR SSDA

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DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA453

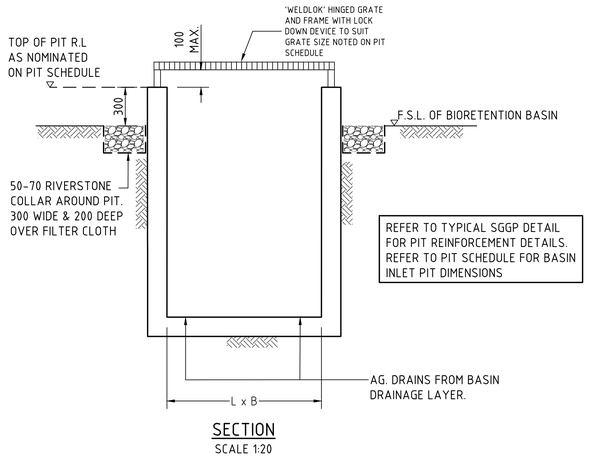
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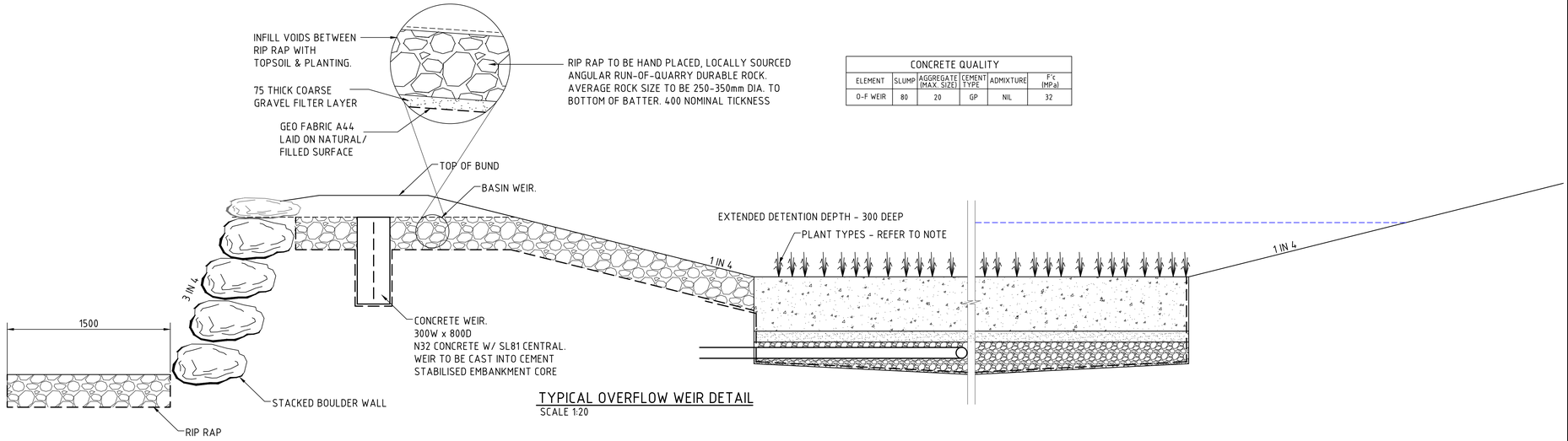
DRAWING TITLE: STORMWATER DRAINAGE DETAILS
SHEET 4

DRAWING No: C013904.03-SSDA453
ISSUE: B



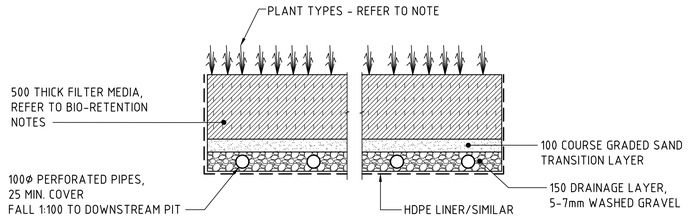
SECTION
SCALE 1:20

BASIN INLET PIT - BIP

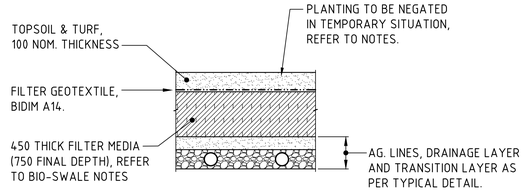


CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
O-F WEIR	80	20	GP	NIL	32

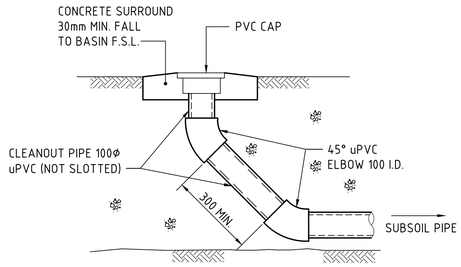
TYPICAL OVERFLOW WEIR DETAIL
SCALE 1:20



TYPICAL BIO-RETENTION DETAIL
SCALE 1:20

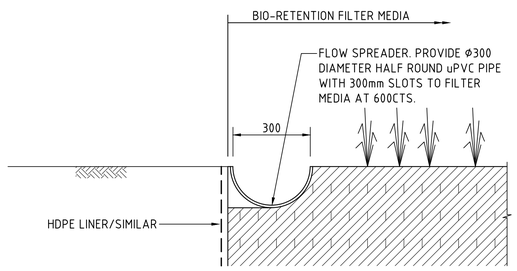


TEMPORARY BIO-RETENTION PROTECTION DETAIL
SCALE 1:20
TEMPORARY CONSTRUCTION REQUIREMENT DETAIL -
REFER TO NOTES FOR IMPLEMENTATION PERIODS.



BIORETENTION CLEANOUT EYE ELEVATION
SCALE 1:20
DENOTED C.E. ON PLAN

BIO-RETENTION BASIN DETAILS



TYPICAL HALF-ROUND FLOW SPREADER DETAIL
SCALE 1:10

BIO-RETENTION NOTES :

FILTER MEDIA TO BE LOAMY SAND WITH A PERMEABILITY NOT LESS THAN 200mm/hr. FILTER MEDIA TO BE FREE OF RUBBISH, DELETERIOUS MATERIAL, TOXICANTS, DECLARED PLANTS AND LOCAL WEEDS, AND IS TO NOT BE HYDROPHOBIC.

FILTER MEDIA TO HAVE THE FOLLOWING COMPOSITION RANGE:

CLAY & SILT (<0.05mm)	<3%
VERY FINE SAND (0.05-0.15mm)	5-30%
FINE SAND (0.15-0.25mm)	10-30%
MEDIUM TO COARSE SAND (0.25-1.00mm)	40-60%
COARSE SAND (1.0-2.0mm)	7-10%
FINE GRAVEL (2.0-3.4mm)	<3%

FILTER MEDIA THAT DOES NOT MEET THE FOLLOWING CRITERIA SHALL BE REJECTED:

a. ORGANIC MATTER CONTENT TO BE IDEALLY WITHIN 1% TO 3% (W/W) AND TO BE NO GREATER THAN 5%(W/W).
b. PH TO BE BETWEEN 5.5 AND 7.5
c. PHOSPHOROUS CONTENT TO BE NO GREATER THAN 35mg/kg

FILTER MEDIA TO BE ASSESSED BY QUALIFIED HORTICULTURALIST TO ENSURE CAPABILITY OF SUPPORTING PLANT LIFE.

DRAINAGE LAYER TO BE CLEAN GRAVEL 5-7mm.

PLANTS TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL REQUIREMENTS.

PROVIDE 100mm TOPSOIL AND TEMPORARY EROSION PROTECTION (JUTEMASTER OR EQUIV) TO SWALE BATTER SLOPES AND ADJACENT LANDSCAPED AREAS. NOTE THAT NO TOPSOIL IS TO BE PLACED OVER FILTRATION MEDIA. PROVIDE SILT FENCE TO TOP OF BANK UNTIL SUCH TIME AS THIS STABILISING AND VEGETATION HAS BEEN COMPLETED.

BIO-RETENTION TO BE PARTIALLY INSTALLED, FOLLOWING COMPLETION OF ROADWORKS, WITH THE TOP 75-100mm OF FILTER MEDIA REPLACED WITH A FINE TO COARSE SAND UNDERLAIN WITH A GEOTEXTILE LAYER (REFER TO DETAIL). FOLLOWING COMPLETION OF THE UPSTREAM DEVELOPMENT AND SITE STABILISATION, THE SAND IS TO BE REMOVED, REPLACED WITH FILTER MATERIAL AND PLANTED OUT. REFER TO TEMPORARY BIO-BASIN DETAIL

PRIOR TO PLANTING, THE TOP 100mm OF THE BIORETENTION FILTER MEDIA IS TO BE AMELIORATED WITH APPROPRIATE ORGANIC MATTER, FERTILISER AND TRACE ELEMENTS TO AID PLANT ESTABLISHMENT AS PER THE TABLE BELOW:

TABLE: RECIPE FOR AMELIORATING TOP 100mm OF BIORETENTION FILTER MEDIA

CONSTITUENT	QUANTITY (kg/m2 OF FILTER AREA)
GRANULATED POULTRY MANURE FINES	50
SUPERPHOSPHATE	2
MAGNESIUM SULPHATE	3
POTASSIUM SULPHATE	2
TRACE ELEMENT MIX	1
FERTILISER NPK (16.4.14)	4
LIME	20

100mm 0 200 400 600 800 1000mm
SCALE 1:10 AT B1 SIZE SHEET

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR SSDA

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ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE

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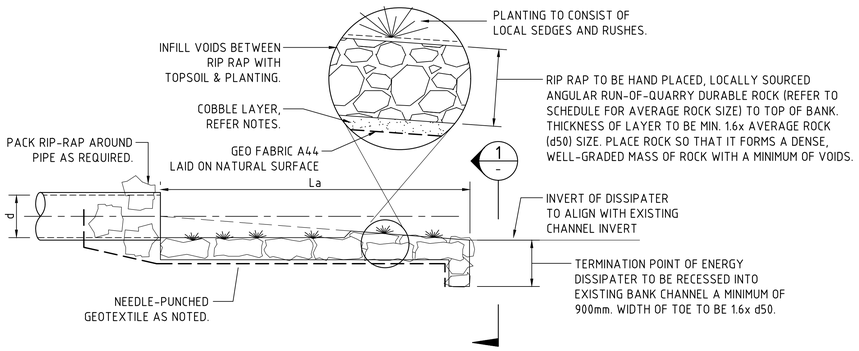
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LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA454

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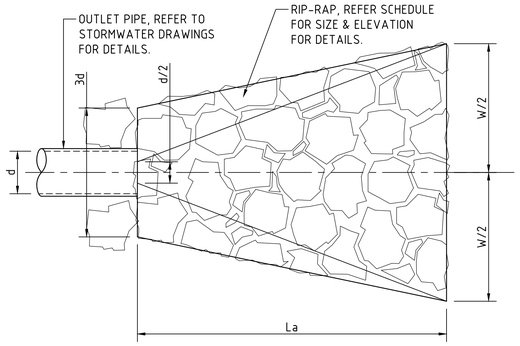
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DRAWING TITLE
STORMWATER DRAINAGE DETAILS
SHEET 5

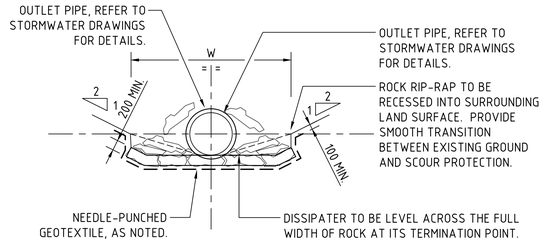
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ISSUE B



ELEVATION
SCALE 1:50



PLAN
SCALE 1:50



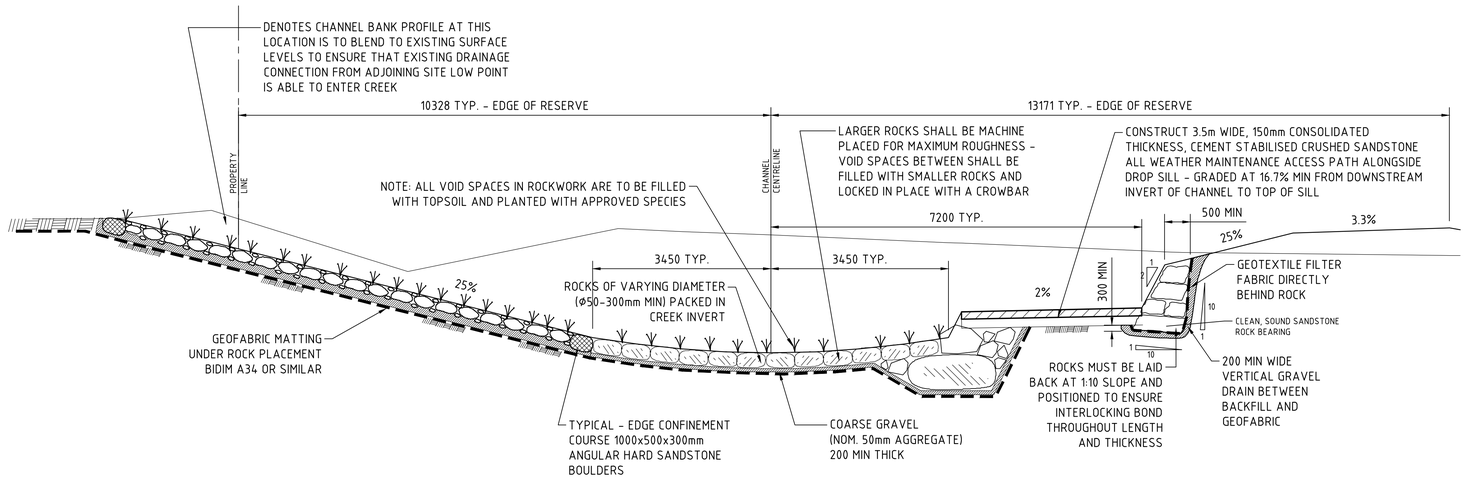
SECTION 1:50 (1)

DISSIPATER NOTES:

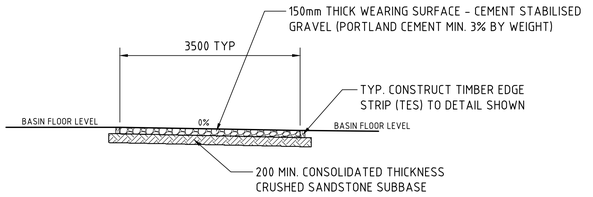
1. ALIGN STRUCTURE EVENLY WITH BANK.
2. LOCATE STRUCTURE AT INVERT LEVEL OF STREAM AND POINT IN A DOWNSTREAM DIRECTION.
3. PIPE TO REST ON, AND BE PACKED IN, BY RIP-RAP (SIZE AS NOTED).
4. DISCHARGE INTO STREAM WHERE BEDROCK IS PRESENT, OTHERWISE SCOUR PROTECT AS REQUIRED.
5. SCOUR PROTECT THE OPPOSITE BANK AS REQUIRED. SCOUR PROTECTION TO BE PROVIDED WHERE OPPOSITE BANK IS WITHIN 12-14 TIMES THE PIPE DIAMETER.
6. RIP-RAP TO CONSIST OF ANGULAR RUN-OF-QUARRY ROCK (d50= 150mm MINIMUM) AS NOTED IN THE SCHEDULE. RIP-RAP TO BE MINIMUM THICKNESS OF RIP-RAP LAYER TO BE 1.6x AVERAGE ROCK SIZE (d50).
7. RIP-RAP IS TO BE PLACED OVER A 200mm LAYER OF 140mm COBBLES OVER NEEDLE-PUNCHED GEOFAB A44.
8. PLACE ROCK SO THAT IT FORMS A DENSE, WELL-GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE FINISHED RIP-RAP SURFACE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS.
9. GAPS IN RIP-RAP TO BE HAND PACKED WITH TOPSOIL & PLANTED WITH NATIVE SEDGES & RUSHES TO PROVIDE. THE INTENT IS FOR THERE TO BE NO VOIDS BETWEEN RIP-RAP BOULDERS.
10. ENSURE THE FINISHED ROCK SURFACE BLENDS WITH THE SURROUNDING GROUND LEVELS. NO OVERFALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
11. ENSURE THAT STORMWATER FROM SURROUNDING GROUND IS FREE TO ENTER THE STRUCTURE WITHOUT CAUSING UNDESIRABLE PONDING OR SCOUR.

DISSIPATER SCHEDULE				
DISCHARGE POINT	d	La	W	RIP-RAP (d50)
OUTLET B	852ø	5000	3000	300

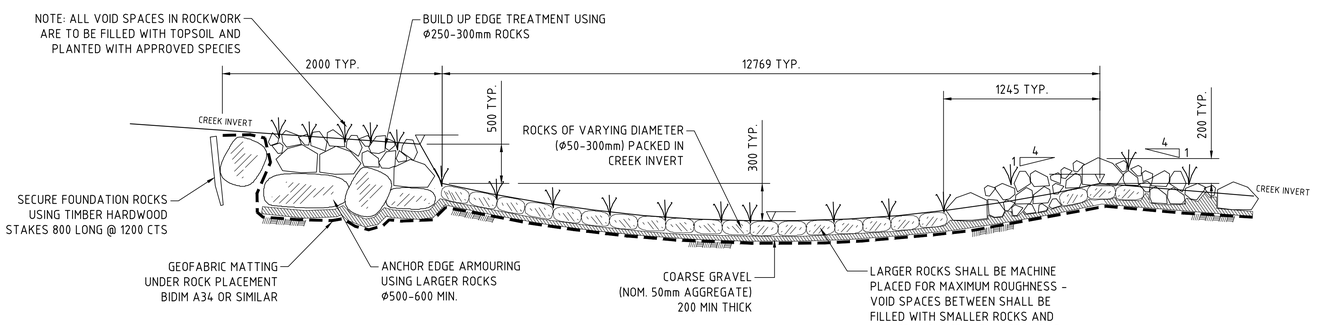
STORMWATER OUTLET DISSIPATER



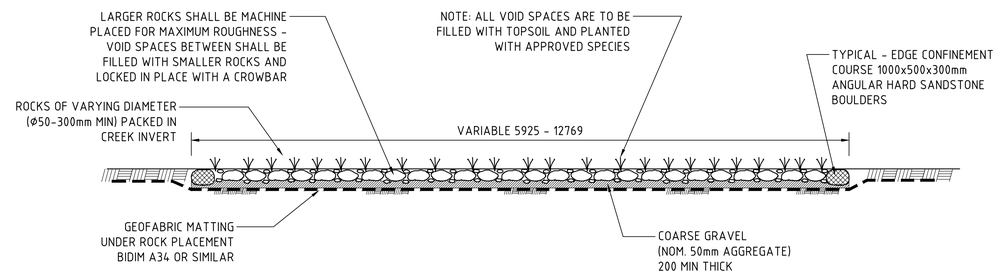
TYPICAL SECTION - PLUNGE POOL
SCALE 1:50



TYPICAL DETAIL - MAINTENANCE ACCESS DRIVE PAVEMENT CONSTRUCTION
SCALE 1:50



TYPICAL DETAIL - PLUNGE POOL AND WEIR
SCALE 1:50



TYPICAL DETAIL - BATTER STABILISATION SCOUR PROTECTION
SCALE 1:50

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
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ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS

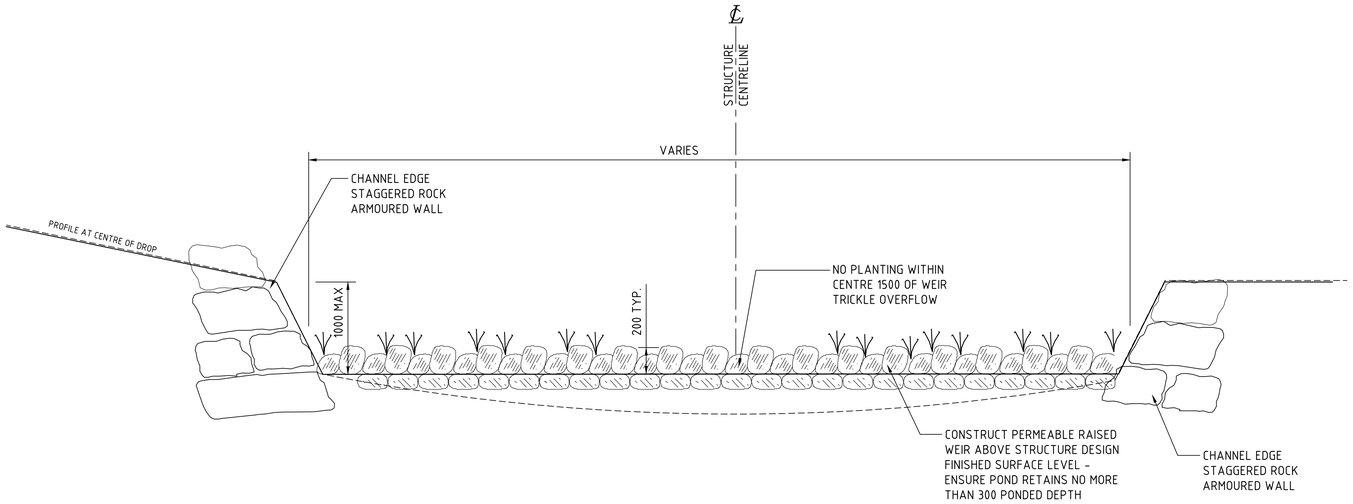
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DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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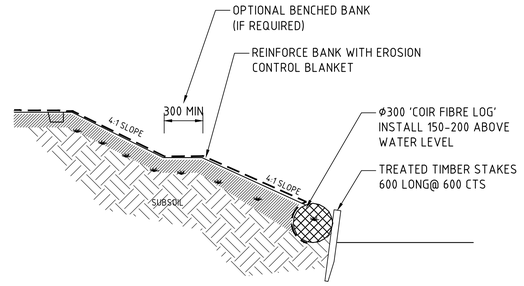
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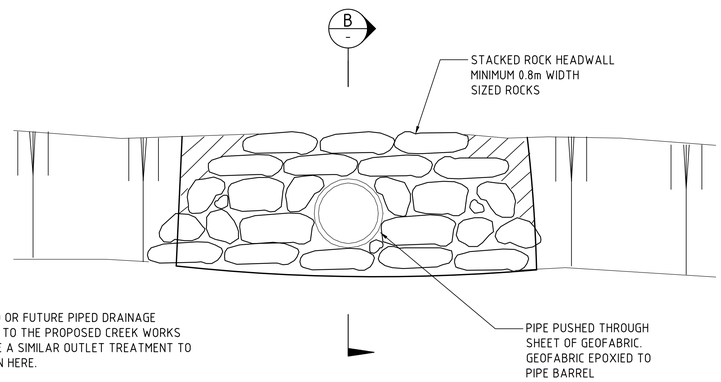
DRAWING TITLE: STORMWATER DRAINAGE DETAILS SHEET 6
DRAWING No: C013904.03-SSDA455
ISSUE: B



TYPICAL DETAIL - ROCK DROP SILL AND WEIR
SCALE 1:20



TYPICAL DETAIL - COIR FIBRE LOG PLACEMENT ANY LOCATION
SCALE 1:20

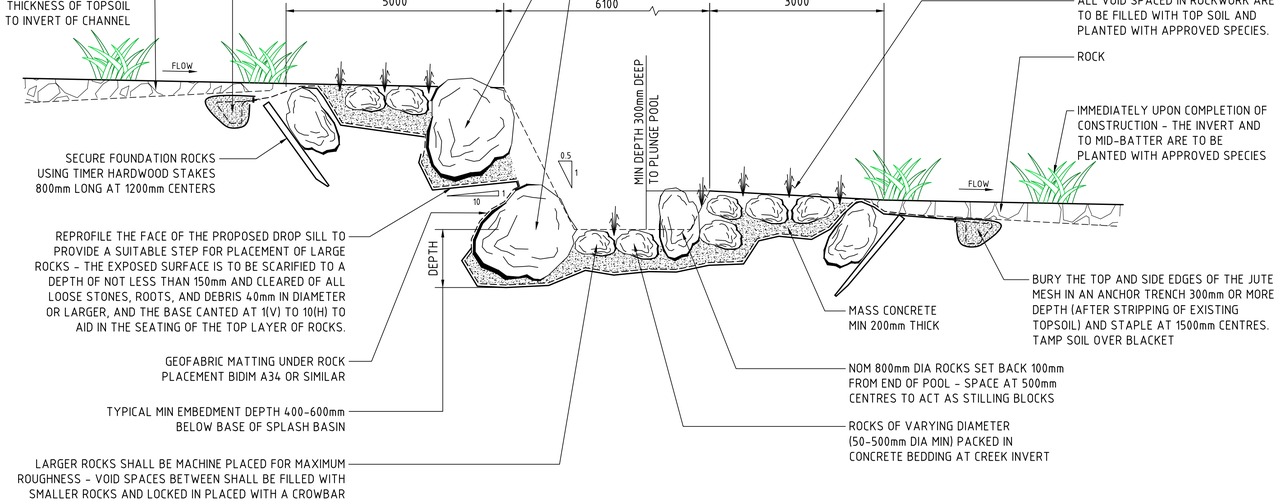


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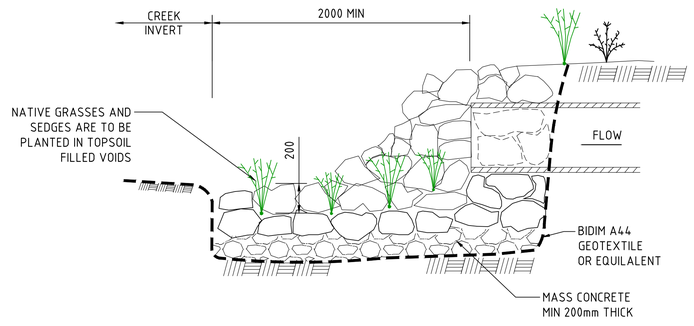
1) ALL PROPOSED OR FUTURE PIPED DRAINAGE CONNECTIONS TO THE PROPOSED CREEK WORKS SHOULD HAVE A SIMILAR OUTLET TREATMENT TO THOSE SHOWN HERE.

2) MIN. ROCK SIZE IN OUTLET DEPRESSED APRON SHOULD BE Φ500-600mm.

TYPICAL STACKED ROCK HEADWALL TREATMENT
SCALE 1:20



TYPICAL DETAIL - ROCK DROP SILL AND WEIR
SCALE 1:20



SECTION 1:20 B

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

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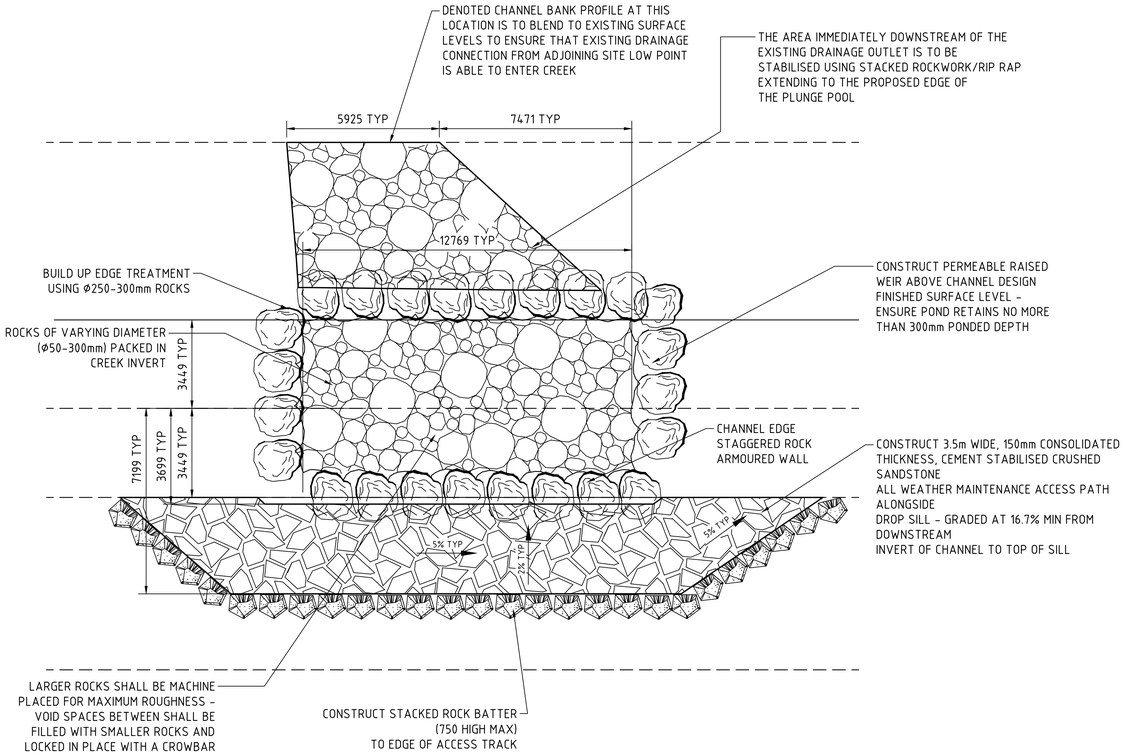
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
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DRAWING No: C013904.03-SSDA456
ISSUE: B



TYPICAL PLAN - PLUNGE POOL
SCALE 1:100

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

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AMENDMENTS	DATE	ISSUE

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PROPOSED WAREHOUSE DISTRIBUTION
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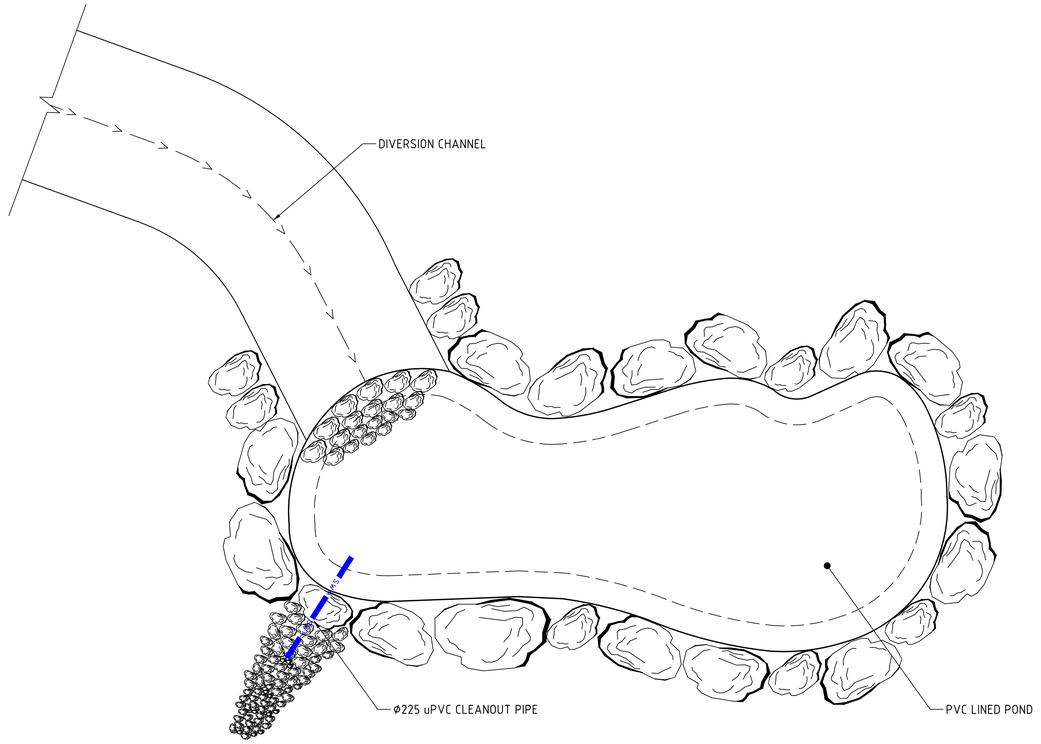
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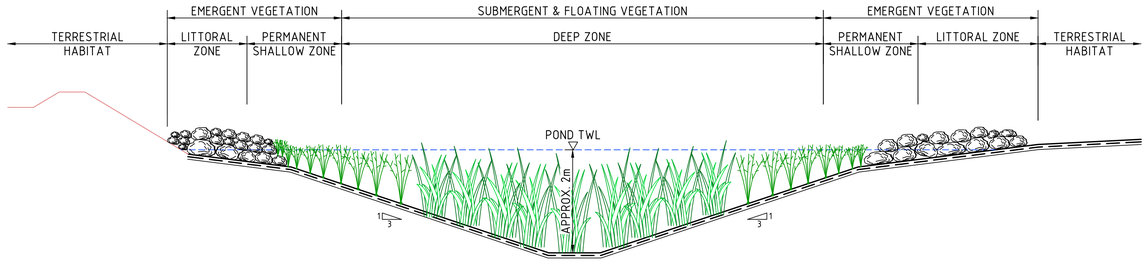
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STORMWATER DRAINAGE DETAILS
SHEET 8

DRAWING No C013904.03-SSDA457
ISSUE B



EPHEMERAL POND - TYPICAL PLAN
SCALE NTS



EPHEMERAL POND - TYPICAL SECTION
SCALE 1:50

FOR SSDA

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE

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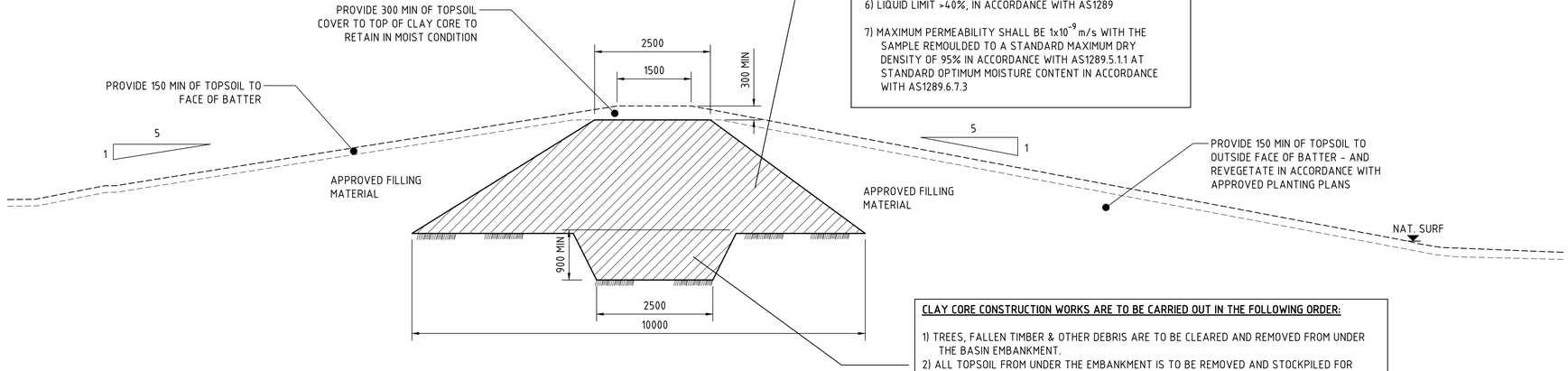
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DRAWING TITLE
STORMWATER DRAINAGE DETAILS
SHEET 9

DRAWING No C013904.03-SSDA458
ISSUE C



CLAY CORE MATERIAL COMPLIANCE NOTES:

1) THE MATERIAL SHALL BE FREE OF ROCK GREATER THAN 50mm IN ANY DIRECTION.
2) THE MATERIAL SHALL BE GENERALLY FREE OF TOPSOIL, ORGANIC AND ROOT MATTER.
3) THE MATERIAL SHALL HAVE NO MORE TAHN 10% EXCEEDING 19mm PARTICLE SIZE.
4) THE MATERIAL SHALL HAVE THE PERCENTAGE FINE (PASSING 0.075mm SIEVE) MORE THAN 50 % (IN ACCORDANCE WITH AS1289)
5) THE PLASTICITY INDEX >20%, IN ACCORDANCE WITH AS1289
6) LIQUID LIMIT >40%, IN ACCORDANCE WITH AS1289
7) MAXIMUM PERMEABILITY SHALL BE $1x10^{-9}$ m/s WITH THE SAMPLE REMOULDED TO A STANDARD MAXIMUM DRY DENSITY OF 95% IN ACCORDANCE WITH AS1289.5.1.1 AT STANDARD OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AS1289.6.7.3

CLAY CORE CONSTRUCTION WORKS ARE TO BE CARRIED OUT IN THE FOLLOWING ORDER:

1) TREES, FALLEN TIMBER & OTHER DEBRIS ARE TO BE CLEARED AND REMOVED FROM UNDER THE BASIN EMBANKMENT.
2) ALL TOPSOIL FROM UNDER THE EMBANKMENT IS TO BE REMOVED AND STOCKPILED FOR LATER REUSE.
3) OVERBURDEN FROM UNDER THE EMBANKMENT IS TO BE REMOVED UNTIL FIRM CLAY OR BEDROCK IS HAS BEEN EXPOSED.
4) A CORE TRENCH OF AT LEAST 900mm DEEP IS TO BE EXCAVATED INTO IMPERMEABLE, STABLE FOUNDATION MATERIAL CONSISTING OF EITHER CLAY OR BEDROCK.
5) THE STRIPPED AREA BELOW THE EMBANKMENT IS TO BE SLIGHTLY SCARIFIED TO A DEPTH NOT EXCEEDING 100mm.
6) THE CLAY CORE MUST BE CENTRALLY PLACED AND EXTEND FOR THE FULL LENGTH AND HEIGHT OF THE BANK.
7) CLAY CORE TO BE LAYED IN LIFTS OF NO MORE THAN 250mm, EACH LAYER IS TO BE COMPACTED WITH A SHEEPS FOOT ROLLER, TO ACHIEVE A MIN DRY DENSITY RATIO OF AT LEAST 95% STANDARD (IN ACCORDANCE WITH AS1289.5.1.1 AND 5.4.1) OR MINIMUM HILF DENSITY RATIO OF 95% (IN ACCORDANCE WITH AS1289.5.7.1) AT MOISTURE CONTENT WITHIN THE RANGE OF 0-35% (WET) OF THE STANDARD OPTIMUM MOISTURE CONTENT.
8) THE COMPLETED CORE AND EMBANKMENT SHOULD BE BUILT 5% HIGHER THAN SPECIFIED, ALLOW FOR SETTLEMENT.
9) UPON COMPLETION OF EACH STAGE OF THE CLAY CORE CONSTRUCTION, THE EXPOSED CLAY SURFACE IF THE CORE SHALL BE LIMITED FROM TRAFFIC MOVEMENTS AND MAINTAINED IN MOIST CONDITION UNTIL IT IS FULLY COVERED BY THE NEXT LAYER. IF THE SURFACE OF THE PREVIOUS PLACED LAYER HAS DRIED OUT OR WETTED UP EXCESSIVELY, THE MATERIAL IN THE AFFECTED AREA SHALL BE EXCAVATED AND CONDITIONED TO MOISTURE WITHIN THE SPECIFIED TOLERANCE OR DISCARDED.

TYPICAL DETAIL - BASIN CLAY CORE AND EMBANKMENT
SCALE 1:50

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

AMENDMENTS DATE ISSUE

ARCHITECT PACE ARCHITECTS

CLIENT LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA459

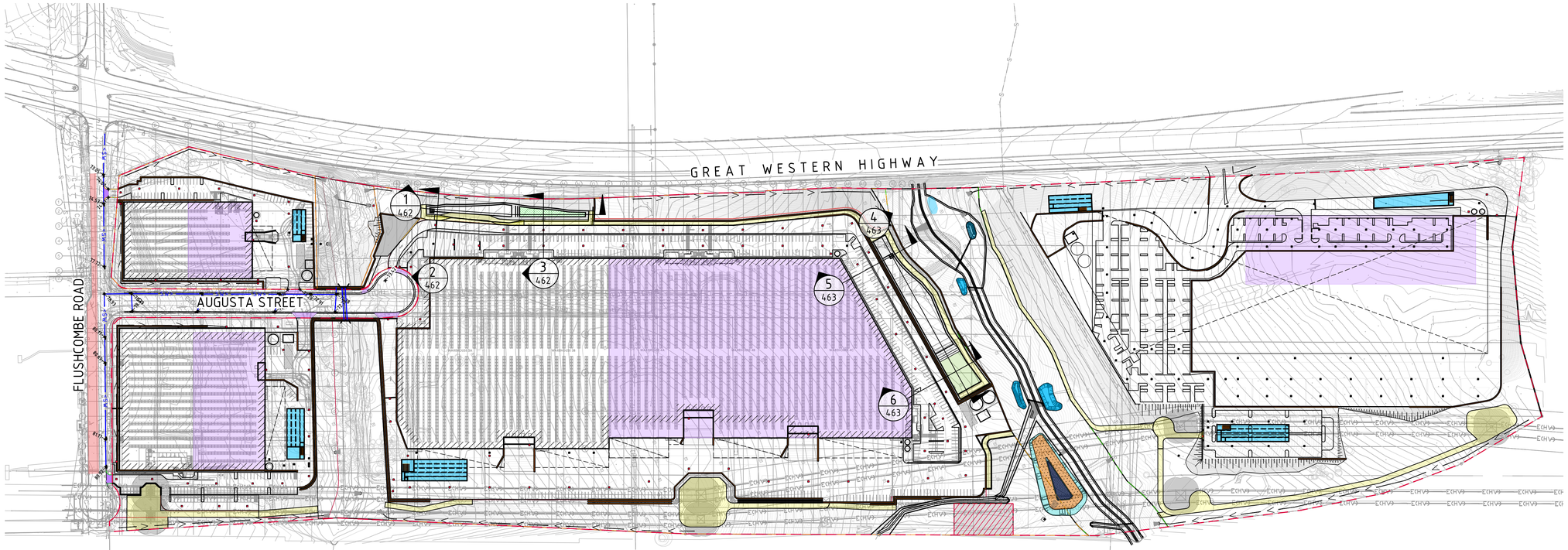
CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9251 7699 f: +61 2 9241 3731
e: mail@costinroe.com.au w: costinroe.com.au

COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
TYPICAL CLAY CORE DETAIL

DRAWING No C013904.03-SSDA459 ISSUE B



STORMWATER MANAGEMENT KEY PLAN
SCALE 1:1500

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

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PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

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LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA460

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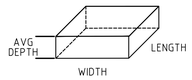
COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
STORMWATER MANAGEMENT LAYOUT & TYPICAL SECTIONS KEY PLAN

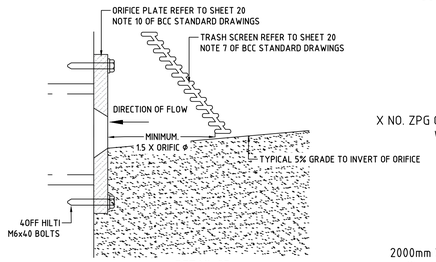
DRAWING No C013904.03-SSDA460
ISSUE B

OSD TANK DETAILS

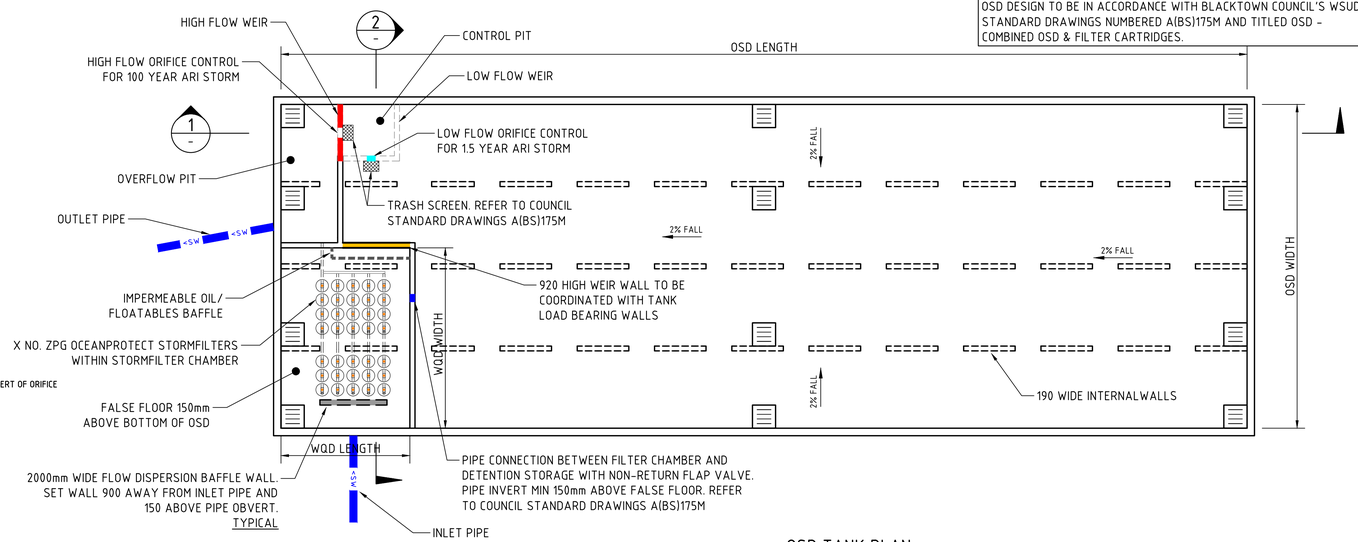
	TANK LOT 2	TANK LOT 3B	TANK LOT 5B
TOTAL SITE AREA DRAINING TO STORAGE (85% IMPERVIOUS)	20,400m^2	28,095m^2	18,090m^2
OSD INLET PIPE RL	RL 71.94	RL 71.56	RL 73.95
OSD INLET PIPE ⌀	825mm	600mm	600mm
STORAGE			
Q100 ORIFICE ⌀	253.0mm	320.0mm	288.5mm
Q100 ORIFICE ℄	RL 71.77	RL 71.31	RL 73.74
VOLUME PROVIDED	950.0m^3	1280.0m^3	962.4m^3
VOLUME REQUIRED	948.0m^3 MIN.	1280.0m^3 MIN.	914.6m^3 MIN.
OSD AVERAGE DEPTH	2.57m	2.60m	2.30m
OSD LENGTH	33.20m	36.25m	60.00m
OSD WIDTH	12.60m	15.80m	10.00m
INTERNAL TANK DIMENSIONS (INC. HIGH FLOW CHAMBERS)			
Q1.5 ORIFICE ⌀	25.50mm	26.50mm	61.00mm
Q1.5 ORIFICE ℄	RL 71.97	RL 71.51	RL 73.94
RL OF Q1.5 CONTROL PIT WEIR	RL 73.495	RL 73.03	RL 75.32
RL OF INVERT OF DISCHARGE	RL 70.21	RL 71.00	RL 73.25
OUTLET PIPE ⌀	825mm	525mm	600mm
RL OF EMERGENCY BYPASS WEIR	RL 74.27	RL 73.79	RL 76.00
RL OF TOP OF OSD TANK	RL 75.57	RL 74.16	RL 76.30
RL OF HARDSTAND ABOVE	RL 75.70	RL 77.80	N/A
Q100 WATER LEVEL	RL 74.27	RL 73.79	RL 76.00
Q1.5 WATER LEVEL	RL 73.495	RL 73.03	RL 75.32
WATER QUALITY			
WQD DEPTH	0.75m	0.75m	0.75m
WQD WIDTH	9.00m	9.00m	10.00m
WQD LENGTH	9.00m	9.00m	3.00m
NUMBER OF ZPG FILTERS	70	75	45
FALSE FLOOR RL	RL 72.12	RL 71.66	RL 74.09



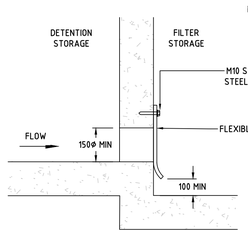
NOTE:
OSD DESIGN TO BE IN ACCORDANCE WITH BLACKTOWN COUNCIL'S WSUD STANDARD DRAWINGS NUMBERED A(BS)175M AND TITLED OSD - COMBINED OSD & FILTER CARTRIDGES.



DETAIL 25
ORIFICE PLATE
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)

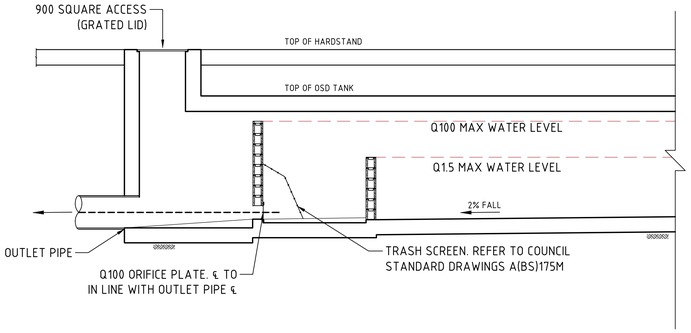


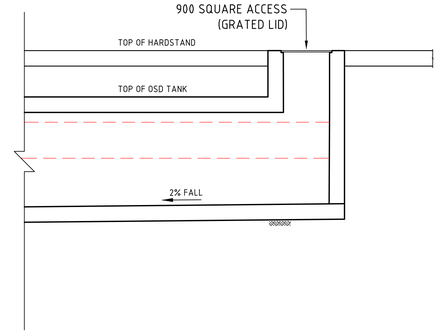
OSD TANK PLAN
SCALE 1:100



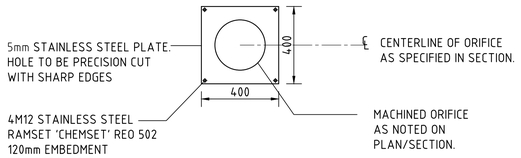
DETAIL 28
NON-RETURN FLAP MOUNTING
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)

DETAIL 29
NON-RETURN FLAP MIN DIMENSIONS
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)

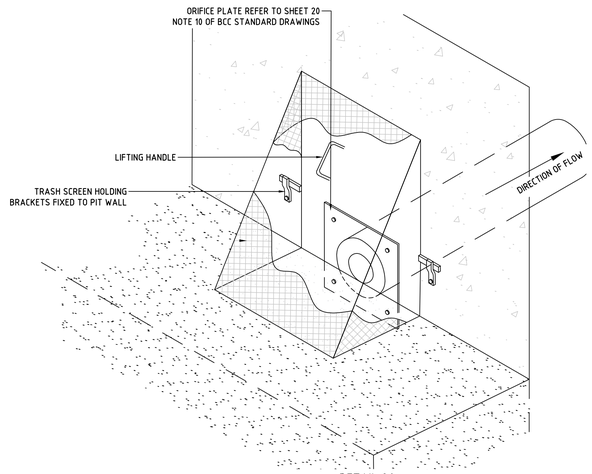




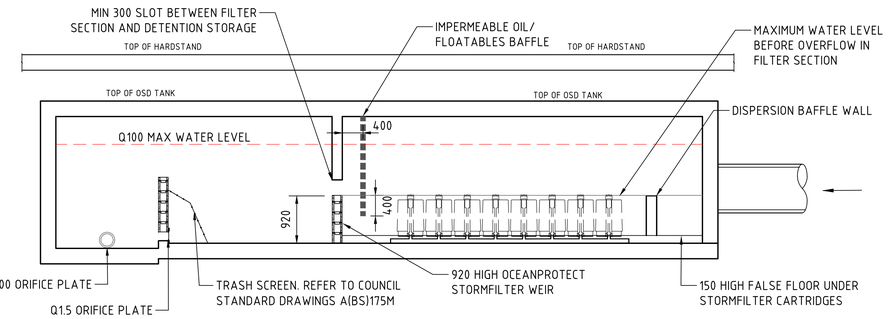
SECTION 1:50 (1)



ORIFICE PLATE DETAIL
NTS



DETAIL 26
ORIFICE PLATE & TRASH SCREEN
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)



SECTION 1:50 (2)



OSD WARNING SIGN
N.T.S
SUGGESTED SIZE 600mm x 450mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE



CONFINED SPACE SIGN
N.T.S
SUGGESTED SIZE 300mm x 450mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE



OSD SIGN
N.T.S
SUGGESTED SIZE 110mm x 80mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

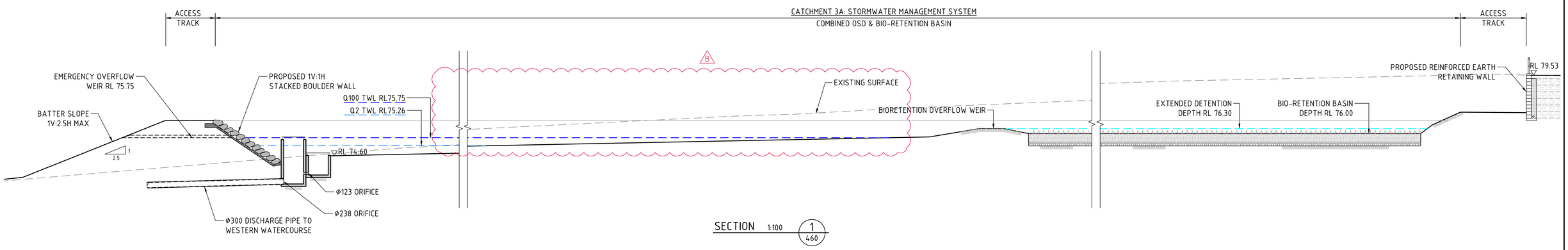
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA461

CONSULT AUSTRALIA

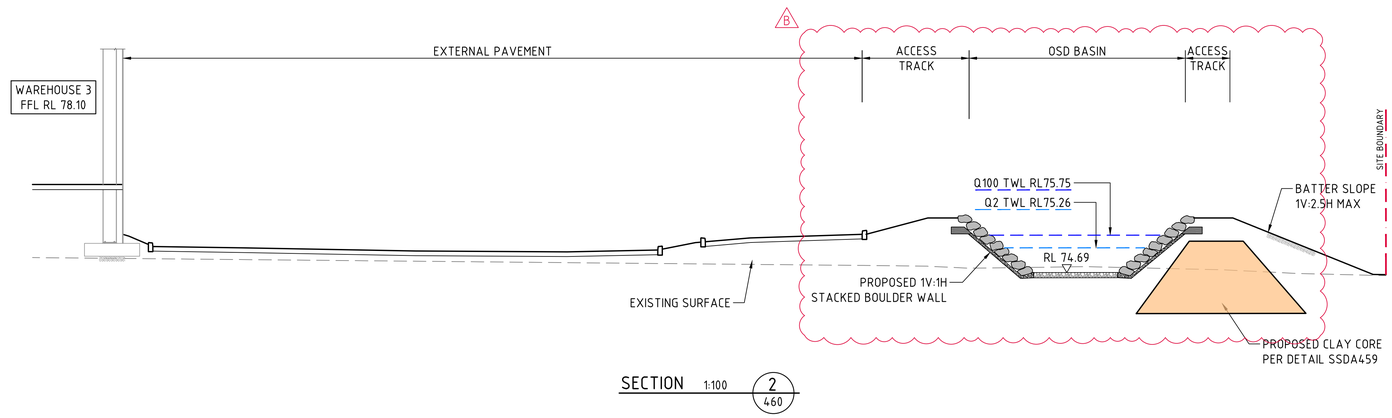
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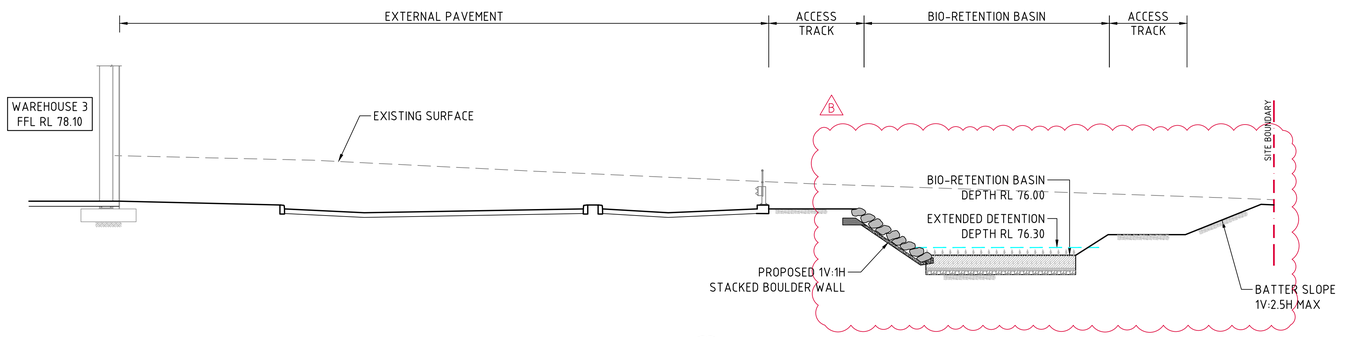
DRAWING TITLE: OSD TANK PLAN & DETAILS LOT 2, 3 & 5 TANKS
DRAWING No: C013904.03-SSDA461
ISSUE: B



SECTION 1:100 (1 / 460)



SECTION 1:100 (2 / 460)



SECTION 1:100 (3 / 460)

1m 0 1 2 3 4 5 6 7 8 9 10m

SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	06.03.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA462

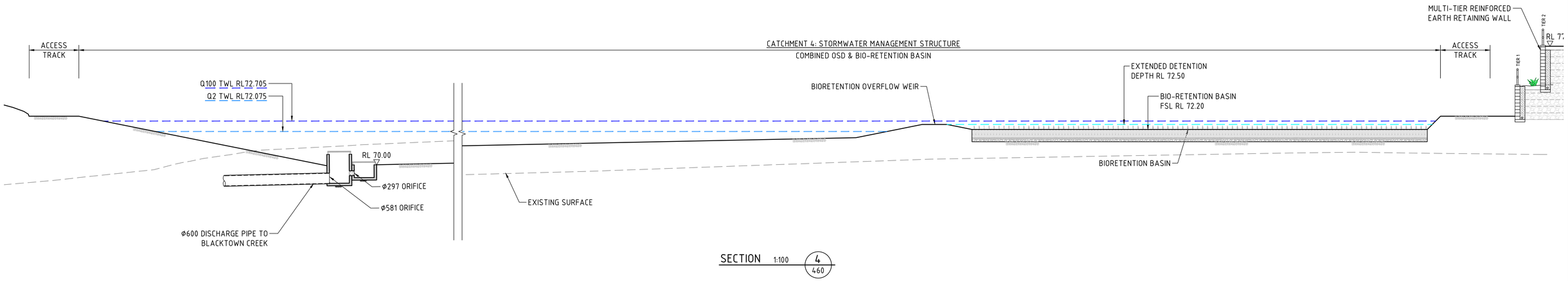
CONSULT AUSTRALIA

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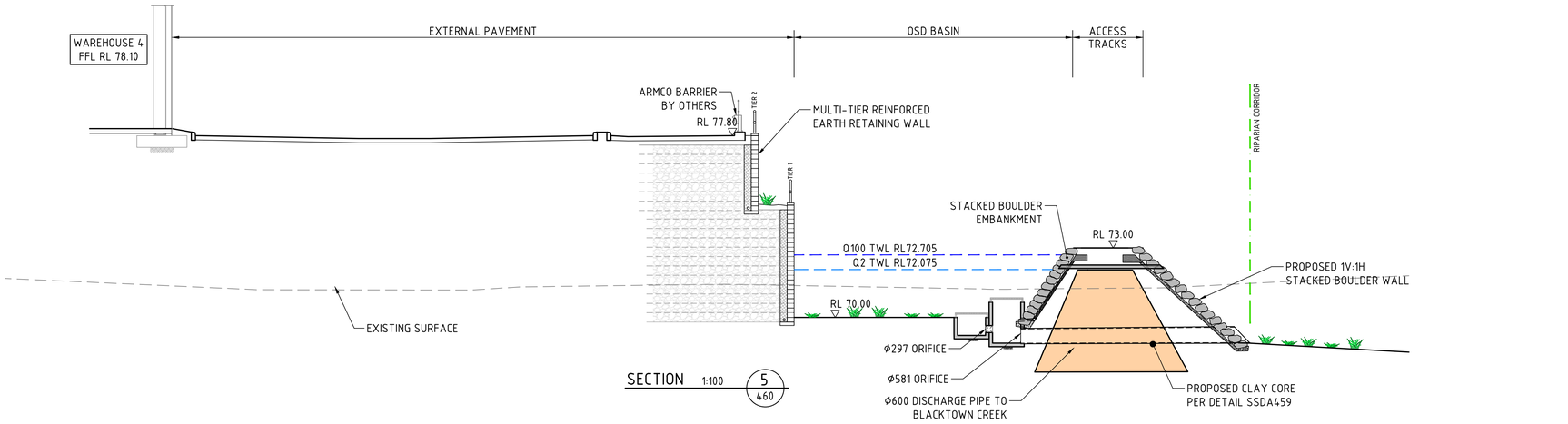
DRAWING TITLE: ABOVE GROUND BIOETENTION AND OSD BASIN DETAILS - LOT 3

DRAWING No: C013904.03-SSDA462

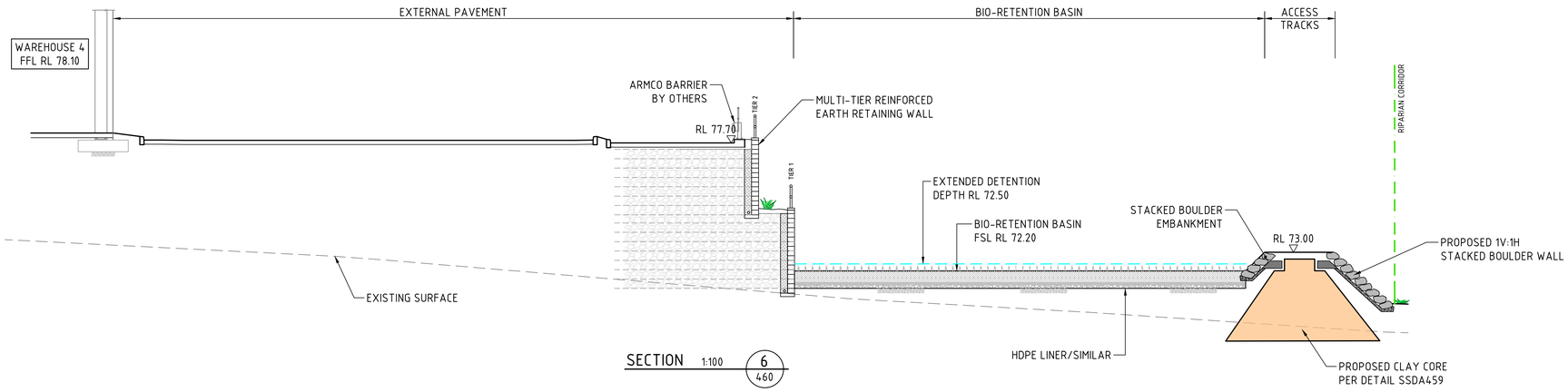
ISSUE: B



SECTION 1:100 — 4 / 460



SECTION 1:100 — 5 / 460



SECTION 1:100 — 6 / 460

1m 0 1 2 3 4 5 6 7 8 9 10m

SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	06.03.24	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA463

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e: mail@costinroe.com.au w: costinroe.com.au

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DRAWING TITLE: ABOVE GROUND BIOETENTION AND OSD BASIN DETAILS - LOT 4

DRAWING No: C013904.03-SSDA463 ISSUE: B

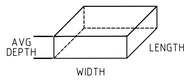
OSD TANK DETAILS

	TANK LOT 1	TANK LOT 5A_1	TANK LOT 5A_2
TOTAL SITE AREA DRAINING TO STORAGE	11,580m²	16,300m²	28,870m²
OSD INLET PIPE RL	RL 70.86	RL 73.00	RL 74.00
OSD INLET PIPE ⌀	750mm	750mm	1050mm

STORAGE

Q100 ORIFICE ⌀	176mm	204mm	302mm
Q100 ORIFICE ℄	RL 68.93	RL 70.50	RL 72.10
VOLUME PROVIDED	560.0m³	750.0m³	1,350.0m³
VOLUME REQUIRED	527.0m³ MIN.	742.0m³ MIN.	1314.0m³ MIN.
OSD AVERAGE DEPTH	3.01m	2.50m	2.60m
OSD LENGTH	23.80m	28.00m	50.00m
OSD WIDTH	9.40m	12.00m	12.00m

INTERNAL TANK DIMENSIONS
(INC. HIGH FLOW CHAMBERS)

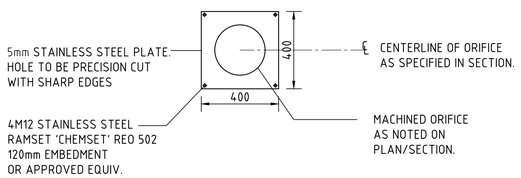


Q1.5 ORIFICE ⌀	N/A		
Q1.5 ORIFICE ℄	N/A		
RL OF Q1.5 CONTROL PIT WEIR	RL 71.00	RL 72.975	RL 74.865
RL OF INVERT OF DISCHARGE	RL 68.80	RL 67.20	RL 70.50
OUTLET PIPE ⌀	750mm	750mm	1050mm
RL OF EMERGENCY BYPASS WEIR	RL 71.95	RL 73.74	RL 75.625
RL OF TOP OF OSD TANK	RL 72.16	RL 74.00	RL 76.00
RL OF HARDSTAND ABOVE	RL 73.00	LANDSCAPE (RL 76.70 TO RL 74.50)	RL 76.80 TO 79.40
Q100 WATER LEVEL	RL 71.95	RL 73.74	RL 75.625
Q1.5 WATER LEVEL	RL 71.00	RL 72.98	RL 74.865

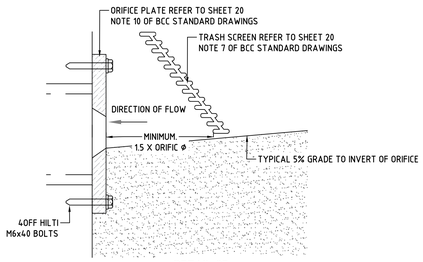
NOTE:
IN THE EVENT THAT THE NOMINAL DISCHARGE FROM THE THE FILTER STORAGE EXCEEDS THE 1.5 YEAR ARI FLOW THEN OMIT THE 1.5 YEAR ARI ORIFICE CONTROL AND GRADE FLOOR OF OSD TANK TO NON-RETURN FLAP.

WATER QUALITY

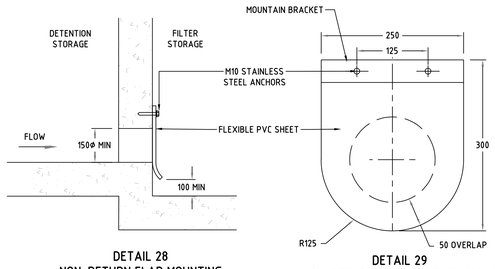
WQD DEPTH	0.75m	0.75m	0.75m
WQD WIDTH	3.50m	3.00m	4.00m
WQD LENGTH	8.00m	10.00m	10.00m
NUMBER OF ZPG FILTERS	35	50	60
FALSE FLOOR RL	RL 69.28	RL 72.85	RL 73.85



ORIFICE PLATE DETAIL
NTS

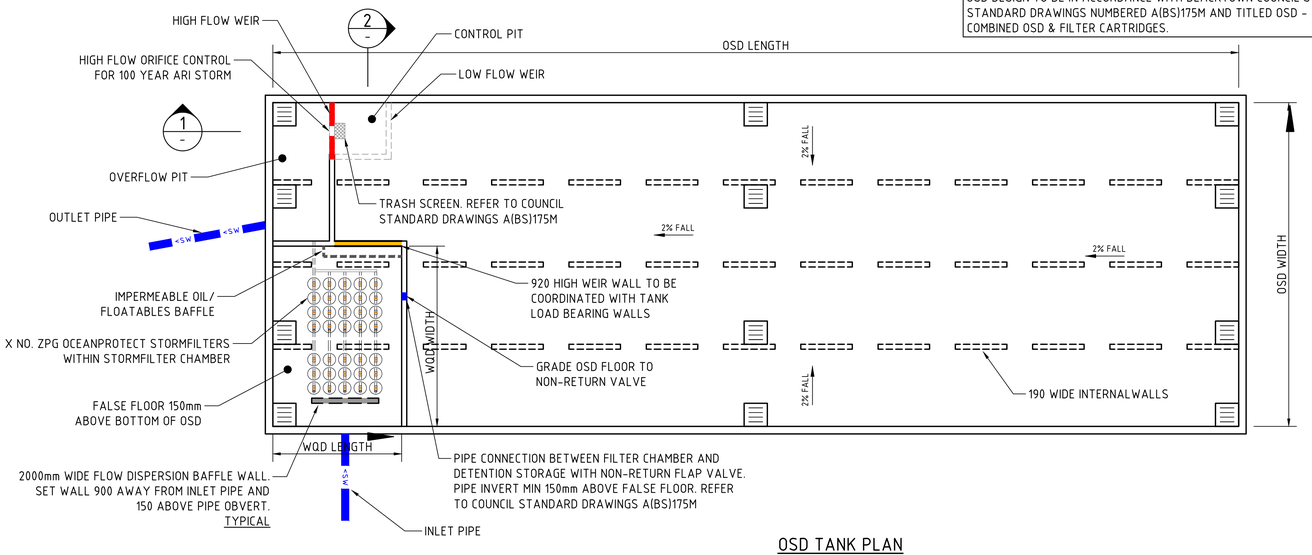


DETAIL 25
ORIFICE PLATE
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)

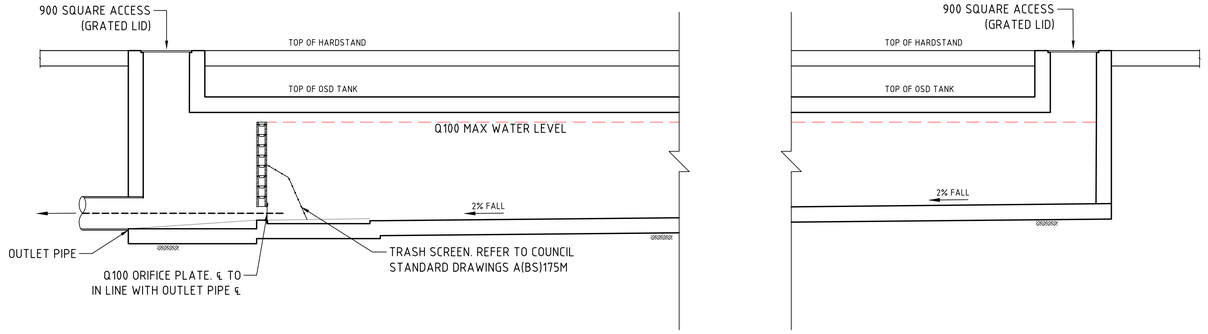


DETAIL 28
NON-RETURN FLAP MOUNTING
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)

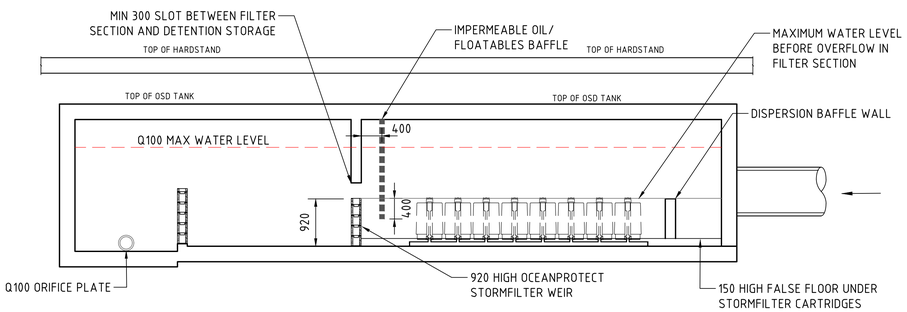
DETAIL 29
NON-RETURN FLAP MIN DIMENSIONS
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)



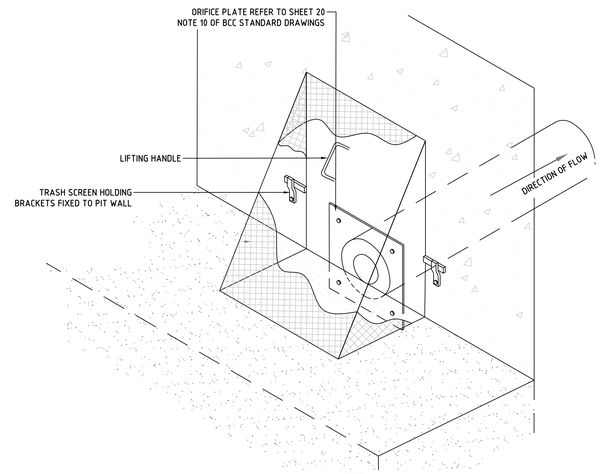
OSD TANK PLAN
SCALE 1:100



SECTION 1:50 (1)



SECTION 1:50 (2)



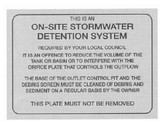
DETAIL 26
ORIFICE PLATE & TRASH SCREEN
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)



OSD WARNING SIGN
N.T.S
SUGGESTED SIZE 600mm x 450mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE



CONFINED SPACE SIGN
N.T.S
SUGGESTED SIZE 300mm x 450mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE



OSD SIGN
N.T.S
SUGGESTED SIZE 110mm x 80mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	06.03.24	A

ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA464

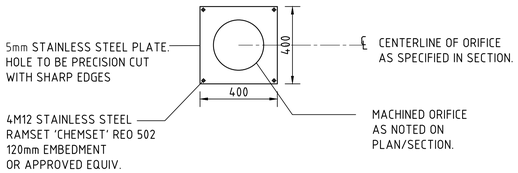
CONSULT AUSTRALIA

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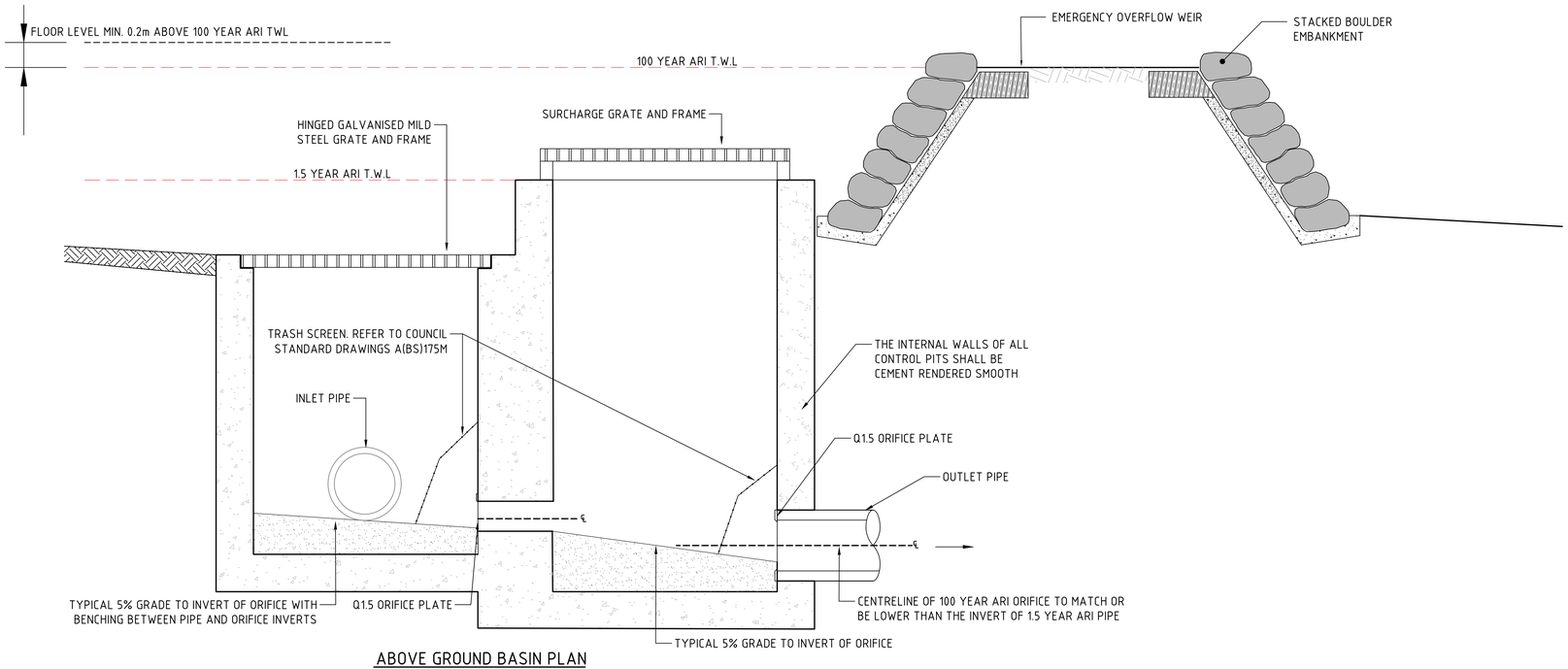
DRAWING TITLE: OSD TANK PLAN & DETAILS LOT 1 TANK
DRAWING No: C013904.03-SSDA464
ISSUE: B

OSD BASIN DETAILS

	BASIN LOT 3	BASIN LOT 4
TOTAL SITE AREA DRAINING TO STORAGE (85% IMPERVIOUS)	10,260m^2	54,135m^2
INLET PIPE RL	RL 76.26	RL 72.52
INLET PIPE ⌀	600mm	900mm
STORAGE		
Q100 ORIFICE ⌀	226.5mm	553.5mm
Q100 ORIFICE ℄	RL 73.10	RL 70.20
RL OF EMERGENCY BYPASS WEIR	RL 76.31	RL 72.71
VOLUME PROVIDED	467.0m^3	2,530m^3
VOLUME REQUIRED	466.8m^3 MIN.	2,463m^3 MIN.
Q1.5 ORIFICE ⌀	112.5mm	285.0mm
Q1.5 ORIFICE ℄	RL 73.60	RL 70.50
RL OF Q1.5 CONTROL PIT WEIR	RL 75.93	RL 72.08
RL OF INVERT OF DISCHARGE	RL 72.50	RL 67.02
OUTLET PIPE ⌀	300mm	600mm
AVERAGE BOTTOM OF BASIN RL	RL 75.18	RL 70.85
Q100 WATER LEVEL	RL 76.31	RL 72.71
Q1.5 WATER LEVEL	RL 75.93	RL 72.08



ORIFICE PLATE DETAIL
NTS

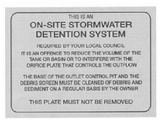


ABOVE GROUND BASIN PLAN
SCALE 1:20



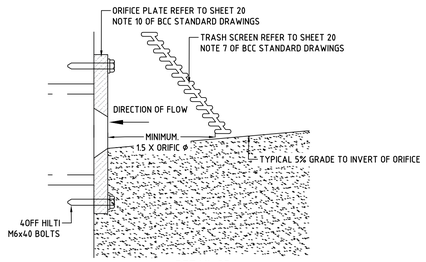
OSD WARNING SIGN

N.T.S
SUGGESTED SIZE 600mm x 450mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE

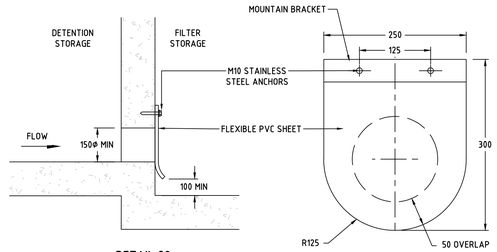


OSD SIGN

N.T.S
SUGGESTED SIZE 110mm x 80mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE

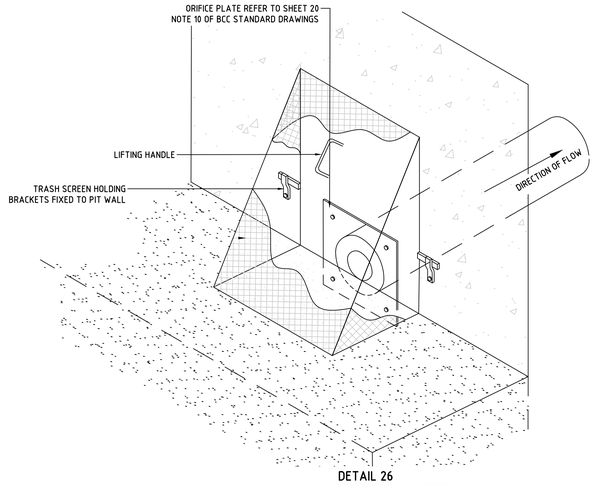


DETAIL 25
ORIFICE PLATE
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)



DETAIL 28
NON-RETURN FLAP MOUNTING
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)

DETAIL 29
NON-RETURN FLAP MIN DIMENSIONS
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)



DETAIL 26
ORIFICE PLATE & TRASH SCREEN
NTS
(REFER TO BCC STANDARD DRAWING A(BS)175M)

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

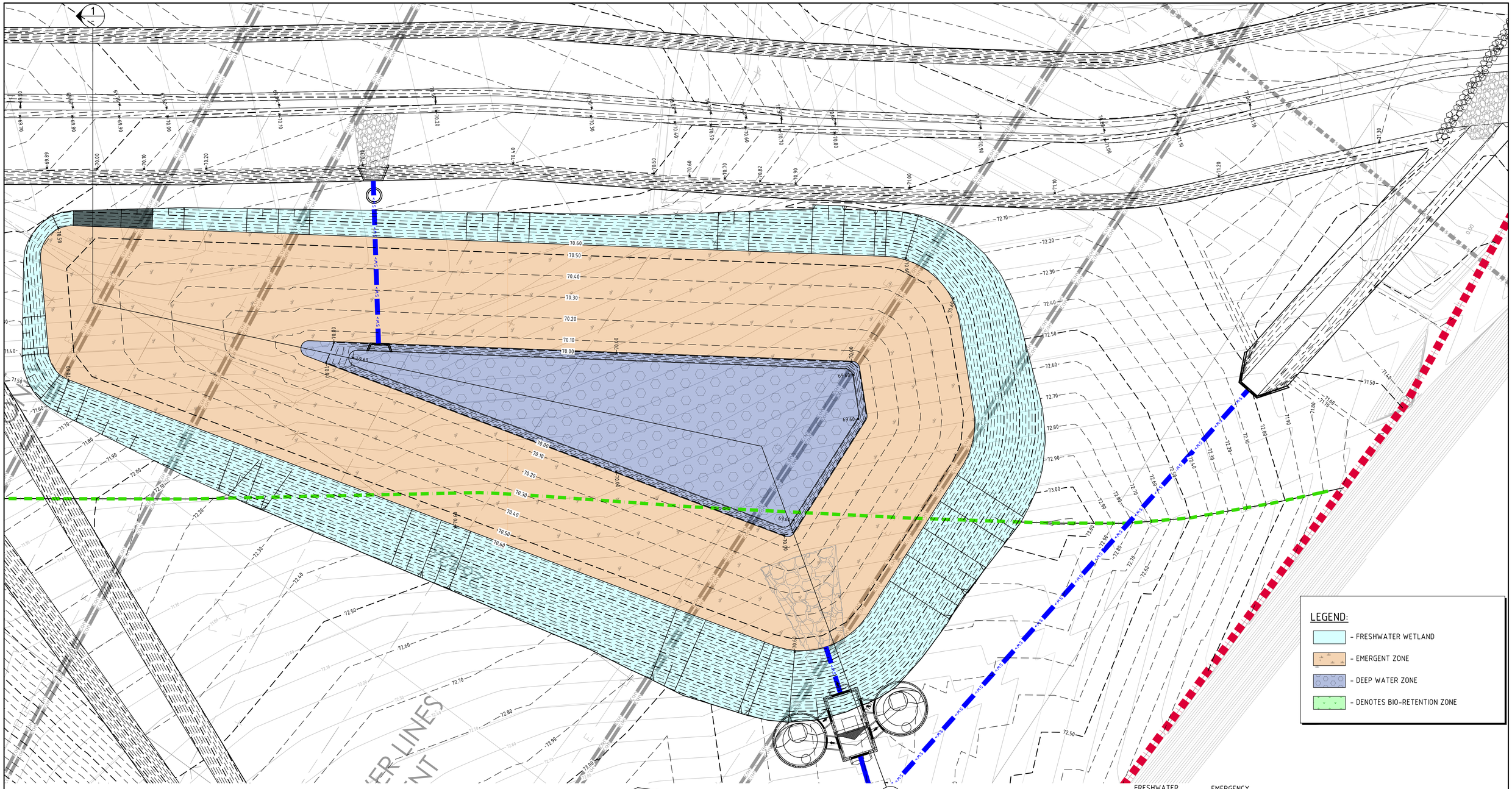
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA465

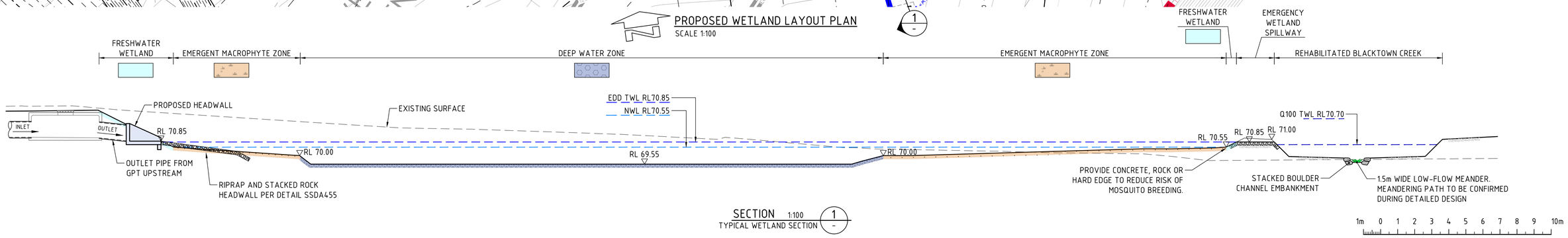
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DRAWING TITLE: TYPICAL OSD BASIN CONTROL & DISCHARGE PIT DETAIL
DRAWING No: C013904.03-SSDA465
ISSUE: B



PROPOSED WETLAND LAYOUT PLAN
SCALE 1:100



SECTION 1:100 — TYPICAL WETLAND SECTION (1 / -)

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

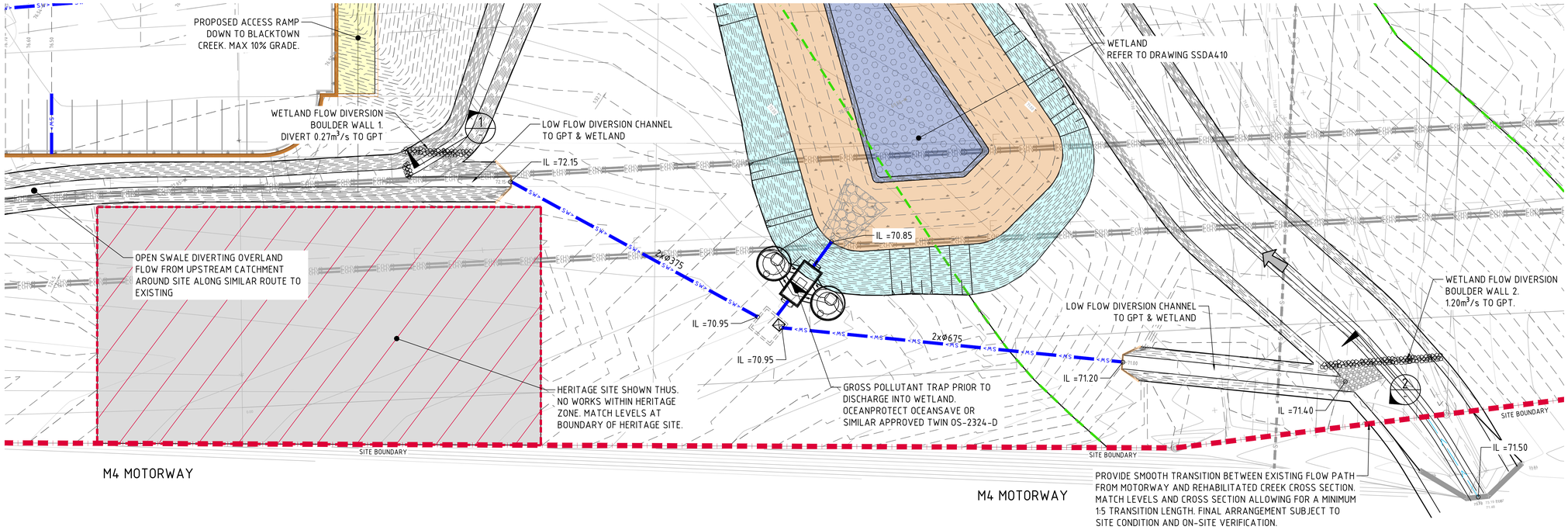
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA410

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DRAWING TITLE: TYPICAL WETLAND DETAIL & SECTION

DRAWING No: C013904.03-SSDA466 ISSUE: B



PROPOSED LOW FLOW DIVERSION WEIR WALL TO WETLAND LAYOUT

SCALE 1:200

NOTES:

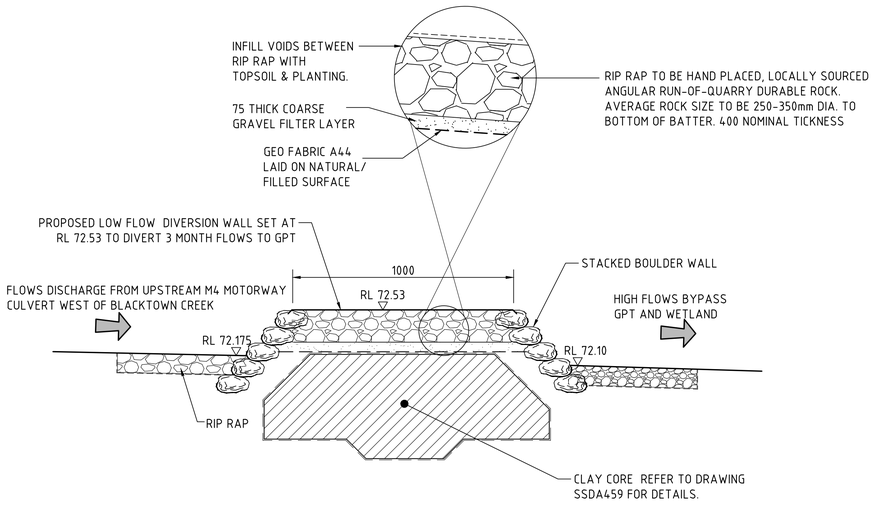
1. REFER TO DRAWING SSDA400 FOR STORMWATER DRAINAGE NOTES.

LEGEND:

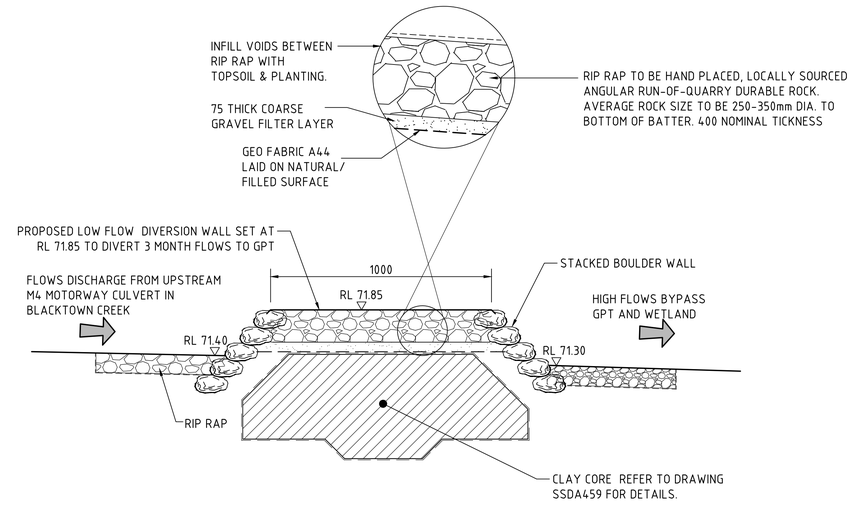
LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS



SECTION 1:20 (1) LOW FLOW DIVERSION WEIR WALL



SECTION 1:20 (2) LOW FLOW DIVERSION WEIR WALL

5m 0 10 20 30 40 50m

SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

ARCHITECT PACE

CLIENT LOGOS

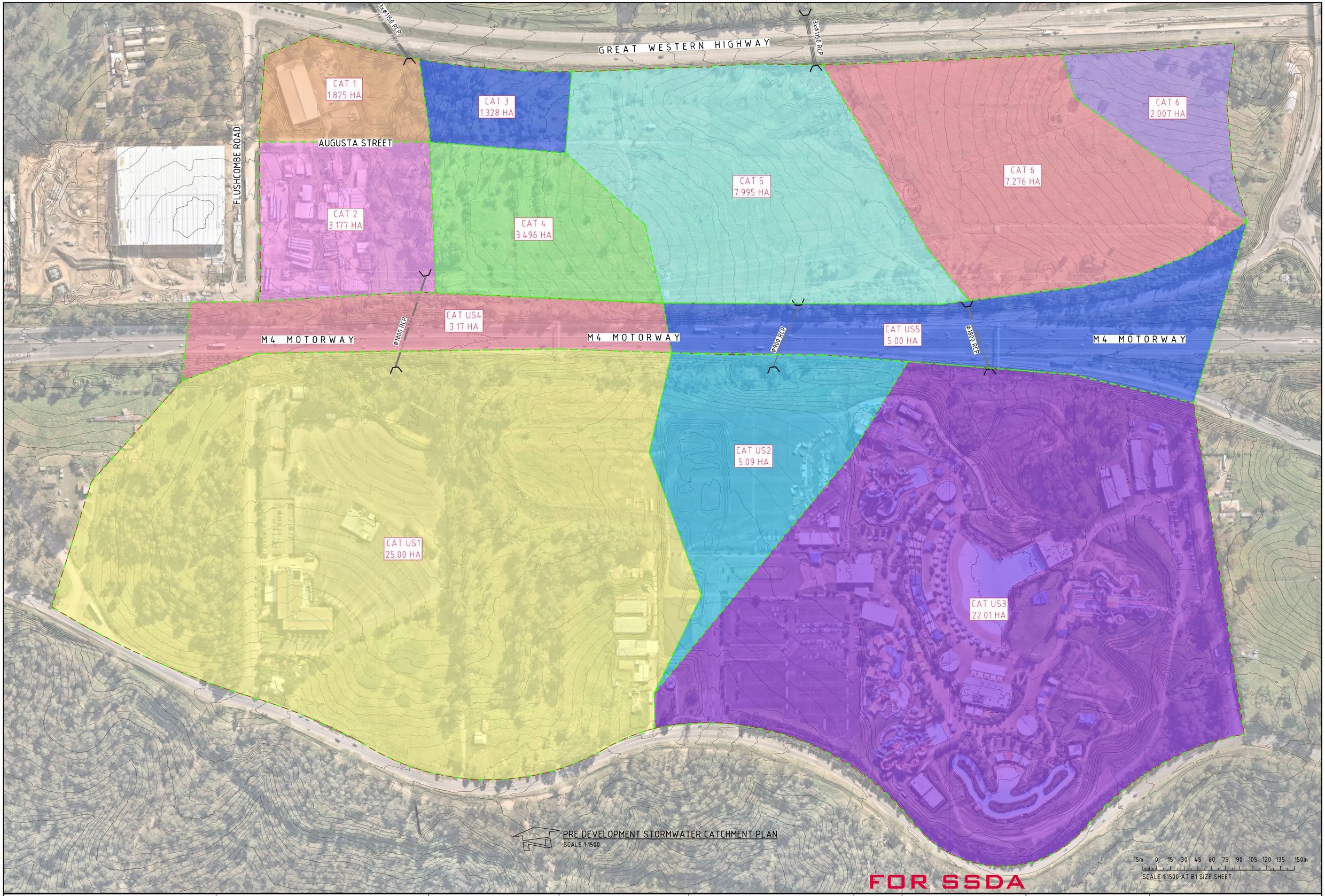
PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

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CRC CIVIL &

DRAWING TITLE
WETLAND LOW-FLOW ROCKWALL DETAIL AND SECTION



PRE DEVELOPMENT STORMWATER CATCHMENT PLAN
SCALE 1:1500

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS DATE ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA470

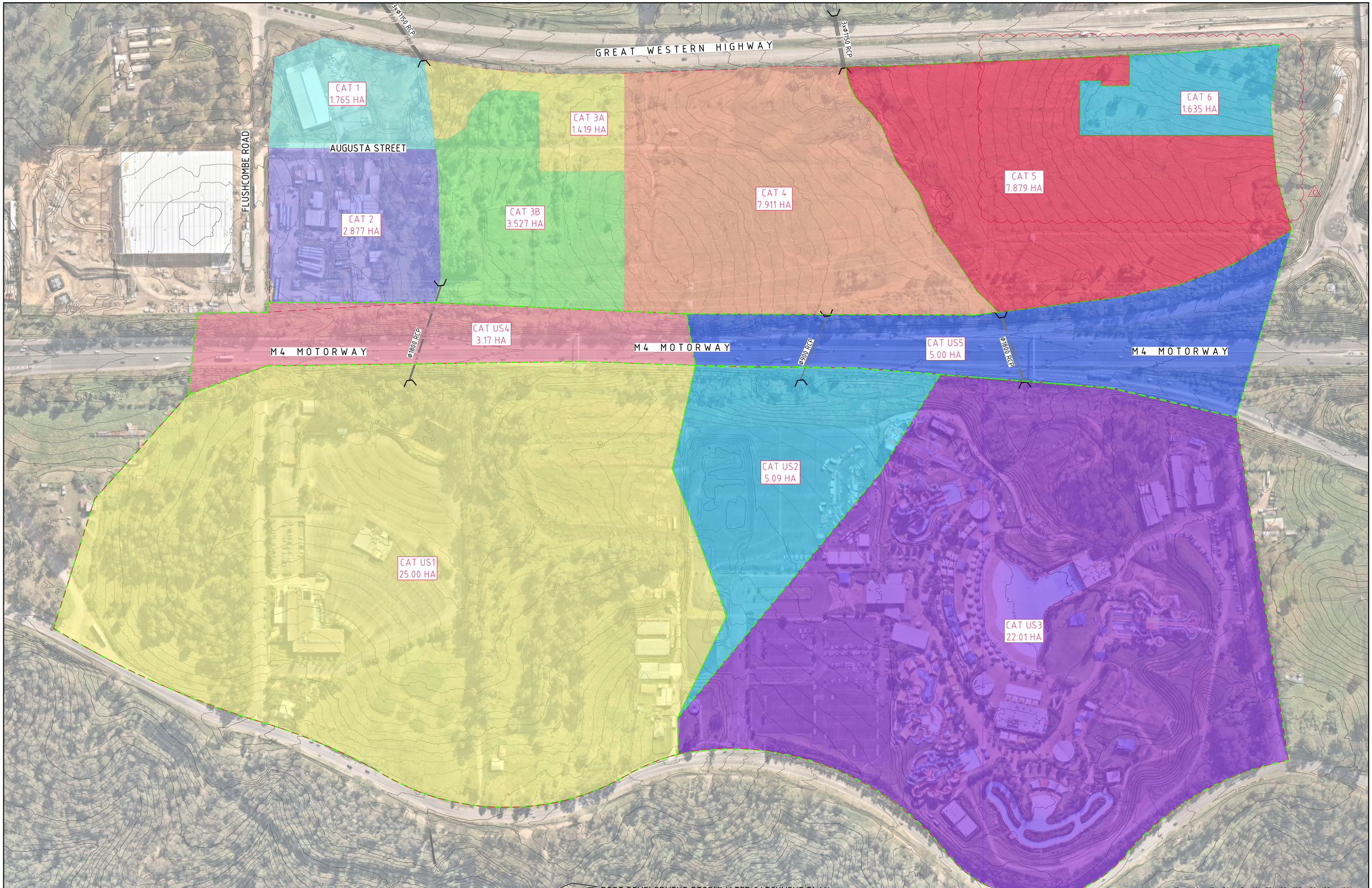
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DRAWING TITLE
PRE DEVELOPMENT STORMWATER CATCHMENT PLAN

DRAWING No C013904.03-SSDA470 ISSUE C



POST DEVELOPMENT STORMWATER CATCHMENT PLAN
SCALE 1:1500

FOR SSDA

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:500 AT B1 SIZE SHEET

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
REVISED AS CLOUDED	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA471

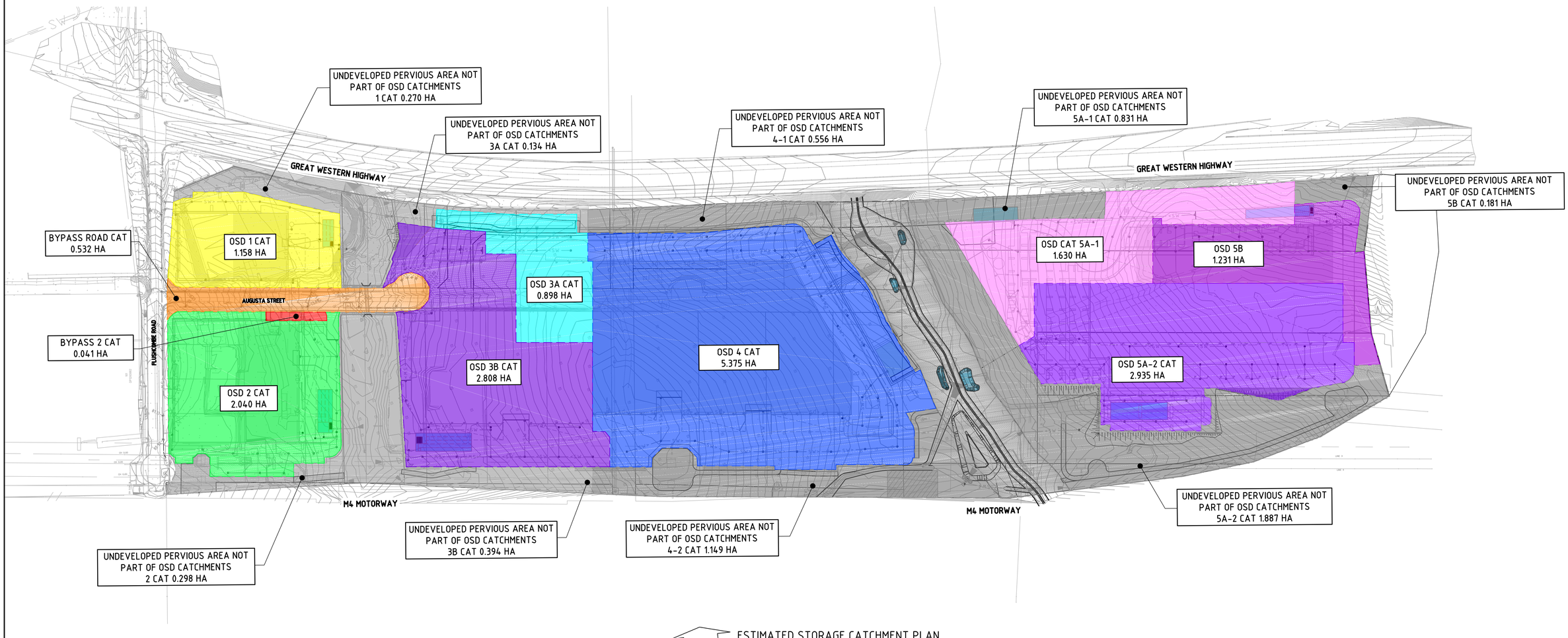
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DRAWING TITLE
POST DEVELOPMENT STORMWATER CATCHMENT PLAN

DRAWING No C013904.03-SSDA471
ISSUE C



ESTIMATED STORAGE CATCHMENT PLAN

SCALE 1:1500

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	A

AMENDMENTS | DATE | ISSUE

AMENDMENTS | DATE | ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA472

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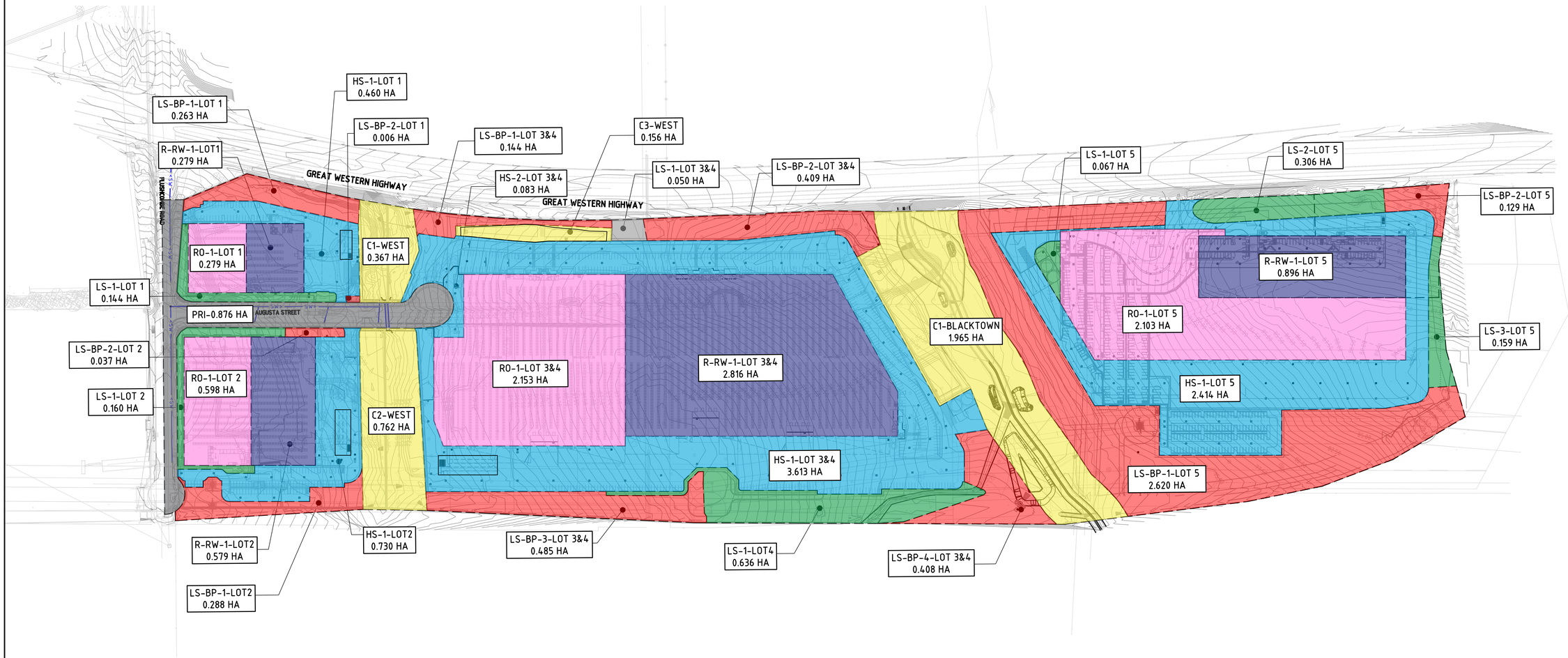
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DRAWING TITLE: ESTIMATED STORAGE CATCHMENT PLAN

DRAWING No: C013904.03-SSDA472 | ISSUE: A

LEGENDS:

	LS-BP	LANDSCAPE BYPASS
	HS	HARDSTAND
	LS	LANDSCAPE
	R-RW	ROOF TO RAINWATER
	RO	ROOF ONLY
	C	CREEK/ WATERCOURSE
	PRI	PUBLIC ROAD INFRASTRUCTURE



STORMWATER MUSIC CATCHMENT PLAN
SCALE 1:1500

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904 03-SSDA473

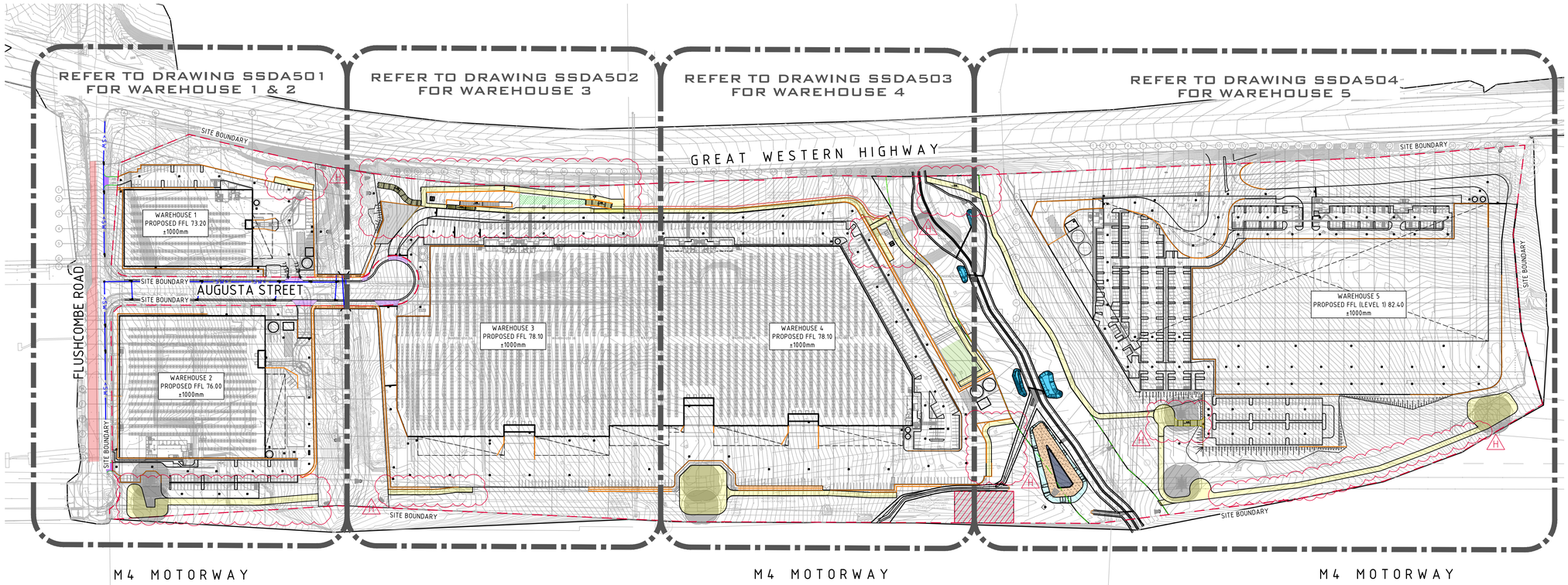
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DRAWING TITLE
STORMWATER MUSIC CATCHMENT PLAN

DRAWING No: C013904.03-SSDA473
ISSUE: A



FINISHED LEVELS PLAN NOTES:

1. LEVELS DATUM IS AUSTRALIAN HEIGHT DATUM (A.H.D.).
2. GRADING REQUIREMENTS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS2890.1, AS2890.2 AND AS2890.6.
3. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
4. CONTOUR INTERVALS
   - THE MINOR CONTOUR INTERVAL IS 0.1m.
   - THE MAJOR CONTOUR INTERVAL IS 0.5m.
5. HARDSTAND GRADING
   - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
   - GRADING OF ON-GRADE DOCKS TO BE 1:100 (1%) FALL AWAY FROM THE DOCK FACE FOR A LENGTH OF 15m U.N.O.
   - GRADING OF TRUCK CIRCULATION ZONES TO BE MINIMUM AS NOTED ABOVE, 3-4% NOMINAL AND MAX. 5%.
6. CAR PARKING AREA GRADES
   - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%), DESIRABLE MINIMUM GRADE 1:50 (2%).
   - MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) N CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
   - DISABLED ACCESS PARKING ZONES AND SHARED SPACE TO BE MAXIMUM OF 1:33 (3%) IN ASPHALT PAVEMENT AND MAXIMUM OF 1:40 (2.5%) IN CONCRETE PAVEMENT.
   - CARPARK RAMP GRADES TO BE MAX 1:5 WITH 2.5m SMOOTH TRANSITION AT TOP AND BOTTOM U.N.O.
7. TRUCK RAMP GRADES
   - MAXIMUM B-DOUBLE OR 19.0m AV RAMP GRADES ARE TO BE 1:8.3 (12%) U.N.O. ON PLAN
   - PROVIDE MINIMUM 4.0m LONG TRANSITION WHERE CHANGES OF GRADE EXCEED 1:20 (5%) AT A CREST U.N.O.
   - PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGE OF GRADE EXCEED 1:20 (5%) AT A SAG U.N.O.
   - TRANSITIONS ARE TO PROVIDE A SMOOTH CONTINOUS CIRCULAR AND TANGENTIAL CHANGE IN GRADE TO ENSURE NO SHARP OR ACUTE CHANGES IN GRADE ARE PRESENT.
8. WHERE FIRE BRIGADE ACCESS IS REQUIRED, MAXIMUM RAMP GRADIENTS ARE TO BE 1:6 (16.6%), DESIRABLE RAMP GRADIENTS ARE TO BE 1:8 (12.5%) WITH 7m TRANSITION TOP AND BOTTOM U.N.O. ON PLAN.
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H U.N.O. BASED ON GEOTECHNICAL ASSESSMENT. PROVIDE MINIMUM 0.5m BERM BETWEEN THE BACK OF KERB OR PAVEMENT EDGES AND THE TOP OR TOE OF A BATTER.
10. ALL BATTER SLOPE WITH GRADES AT OR EXCEEDING 1V:6H ARE TO BE TURFED IMMEDIATELY OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE SATISFACTION OF THE ENGINEER.
11. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5% NOMINAL. GRADE.
12. ALL PAVEMENTS ARE TO BE SET AT 30mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS. PROVIDE LOCAL FEATHERING AT DOORWAYS OR ROLLER SHUTTERS TO PROVIDE FLUSH FINISH AS REQUIRED.
13. WHERE NEW AND EXISTING INTERFACING IS REQUIRED, MATCH EXISTING LEVELS AND PROVIDE SMOOTH INTERFACE BETWEEN NEW AND EXISTING GRADIENTS. REFER ANY CONCERNS TO THE ENGINEER.

FINISHED LEVELS KEY PLAN

SCALE 1:1500

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN.
FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

LEGEND:

LEVELS DATUM IS AHD.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
UPDATED ARCHITECTURAL MASTERPLAN	02.08.24	F
UPDATED ARCHITECTURAL MASTERPLAN	08.03.24	E
UPDATED ARCHITECTURAL MASTERPLAN	11.09.23	D
ADDITIONAL PARKING ADDED TO WH2, ACOUSTIC WALL & WALL TO WH3	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	08.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA500

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DRAWING TITLE: FINISHED LEVELS KEY PLAN

DRAWING No: C013904.03-SSDA500 ISSUE: H

RAMP WITH MAX GRADE AS SHOWN AND TRANSITIONS TOP AND BOTTOM PER NOTE 7.

PROPOSED CROSSOVER IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS. ALL EXISTING SERVICES ALIGNMENT, FITTINGS AND DEPTHS TO BE CONFIRMED VIA POTHOLING PRIOR TO COMMENCEMENT OF WORKS. TYPICAL

RETAINING WALL IN CUT ALONG WAREHOUSE EXTERNAL FOOTPATH

RETAINING WALL IN CUT BEHIND WAREHOUSE WITH BONDEK SLAB OVER 1m VOID BELOW FOR EGRESS

FLUSHCOMBE ROAD REFER TO DRAWING SSDA711 FOR DETAILS

PROPOSED WAREHOUSE 1
FFL RL 73.32±1000mm

RAMP WITH MAX GRADE AS SHOWN AND TRANSITIONS TOP AND BOTTOM PER NOTE 7.

PROPOSED RECESSED DOCK 1300 DEEP

AWNING ABOVE

PROPOSED BELOW GROUND OSD TANK: REFER TO DRAWING SSDA401

PROPOSED RETAINING WALL IN FILL

PROPOSED PUMP ROOM

PROPOSED SPRINKLER TANK

AUGUSTA STREET

PROPOSED WAREHOUSE 2
FFL RL 76.00±1000mm

AUGUSTA STREET REFER TO DRAWING SSDA712 FOR DETAILS

PROPOSED CROSSOVER IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS. ALL EXISTING SERVICES ALIGNMENT, FITTINGS AND DEPTHS TO BE CONFIRMED VIA POTHOLING PRIOR TO COMMENCEMENT OF WORKS. TYPICAL

PROPOSED ACCESS TO EXISTING ELECTRICAL TOWERS

BREAKLINE - REFER TO DRAWING SSDA502 FOR CONTINUATION

RAMP WITH MAX GRADE AS SHOWN AND TRANSITIONS TOP AND BOTTOM PER NOTE 7.

WESTERN CREEK REFER TO DRAWING SSDA415 FOR DETAILS

GREAT WESTERN HIGHWAY

M4 MOTORWAY

SITE BOUNDARY

FINISHED LEVELS PLAN - WAREHOUSE 1 & 2
SCALE 1:500

LEGEND:
LEVELS DATUM IS AHD.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- EXISTING ROAD PAVEMENT
- NEW ASPHALT ROAD PAVEMENT
- FOOTPATH
- NEW VEHICLE CROSSING
- MAINTENANCE ACCESS TRACK

NOTES:
REFER TO DRAWING SSDA500 FOR FINISHED LEVELS NOTES.

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	F
REVISED ARCHITECTURAL MASTERPLAN	08.03.24	E
REVISED ARCHITECTURAL MASTERPLAN	11.09.23	D
ADDITIONAL PARKING SHOWN TO WH2	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	07.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

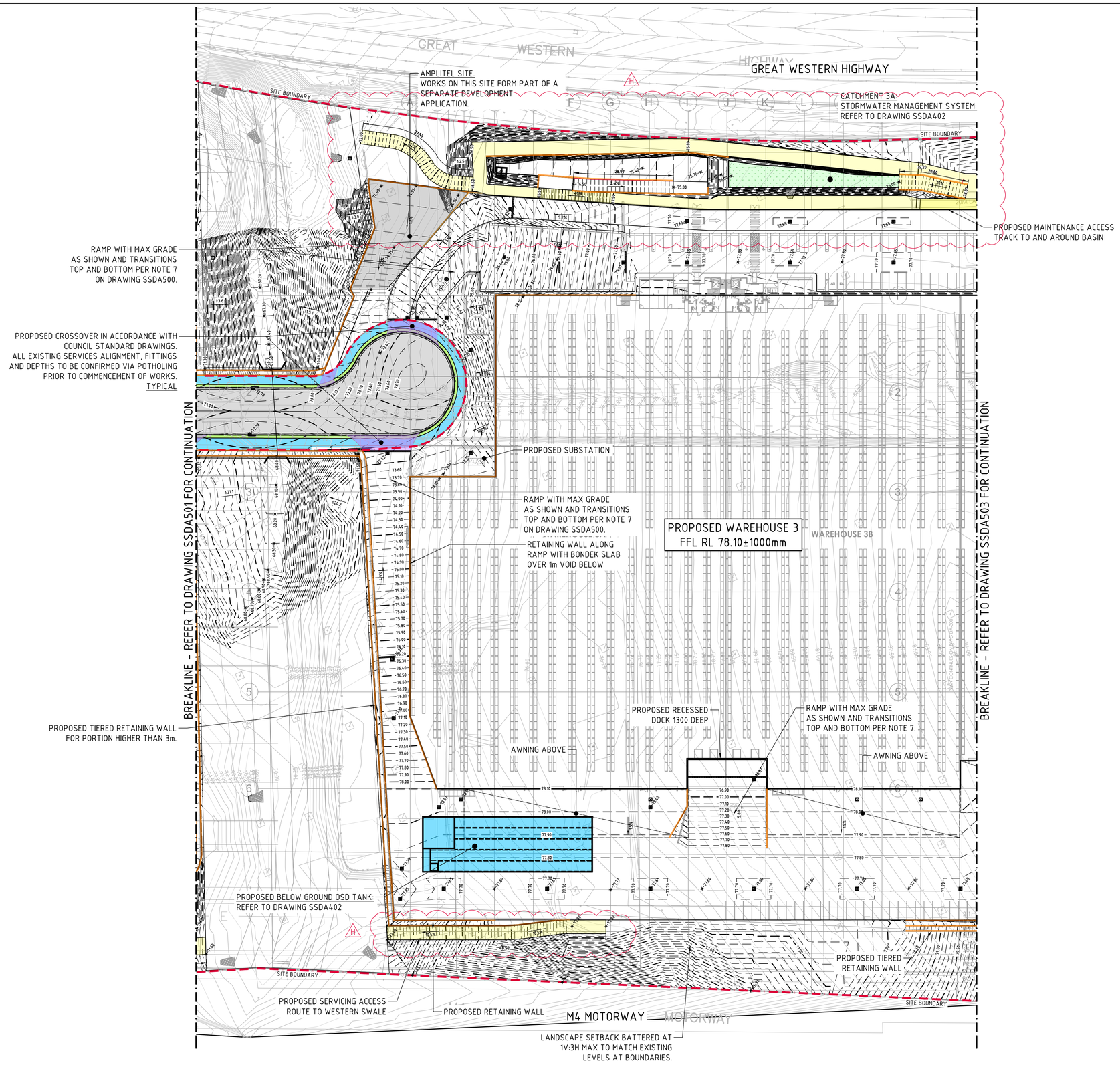
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA501

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DRAWING TITLE: FINISHED LEVELS PLAN WAREHOUSE 1 & 2

DRAWING No: C013904.03-SSDA501 ISSUE: H



LEGEND:

LEVELS DATUM IS AHD.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- EXISTING ROAD PAVEMENT
- NEW ASPHALT ROAD PAVEMENT
- FOOTPATH
- NEW VEHICLE CROSSING
- MAINTENANCE ACCESS TRACK

NOTES:

REFER TO DRAWING SSDA500 FOR FINISHED LEVELS NOTES.

FINISHED LEVELS PLAN - WAREHOUSE 3

SCALE 1:500

5m 0 10 20 30 40 50m

SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	F
REVISED ARCHITECTURAL MASTERPLAN	08.03.24	E
REVISED ARCHITECTURAL MASTERPLAN	11.09.23	D
ACOUSTIC FENCE ADDED TO WH3	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A
ACCESS TRACKS DETAILS PROVIDED	07.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA502

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DRAWING TITLE: FINISHED LEVELS PLAN WAREHOUSE 3

DRAWING No: C013904.03-SSDA502

ISSUE: H

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

PROPOSED MAINTENANCE ACCESS TRACK TO AND AROUND BASIN

GREAT WESTERN HIGHWAY

PROVIDE SMOOTH TRANSITION BETWEEN EXISTING FLOW PATH TO GWH AND REHABILITATED CREEK CROSS SECTION. MATCH LEVELS AND CROSS SECTION ALLOWING FOR A MINIMUM 1:5 TRANSITION LENGTH. FINAL ARRANGEMENT SUBJECT TO SITE CONDITION AND ON-SITE VERIFICATION.".

PROPOSED ACOUSTIC FENCE ALONG GREAT WESTERN HIGHWAY BOUNDARY ON TOP OF BATTER SHOWN

PROPOSED 1m HIGH WALL BEHIND ACCESS TRACK WITH A 2m WIDE 1V:2.5H MAC BATTER BEHIND WALL

1V:1H BATTER TO BE STABILISED WITH ROCK BOULDERS ON MASS CONCRETE OR LANDLOK 450 (OR SIMILAR APPROVED). TBC DURING DETAILED DESIGN.

SITE BOUNDARY

BREAKLINE - REFER TO DRAWING SSDA502 FOR CONTINUATION

BREAKLINE - REFER TO DRAWING SSDA504 FOR CONTINUATION

1V:1H BATTER TO BE STABILISED WITH ROCK BOULDERS ON MASS CONCRETE OR LANDLOK 450 (OR SIMILAR APPROVED). TBC DURING DETAILED DESIGN.

PROPOSED WAREHOUSE 4
FFL RL 78.10±1000mm

WAREHOUSE 4A

WAREHOUSE 4B

WAREHOUSE 4C

CATCHMENT 4:
STORMWATER MANAGEMENT SYSTEM:
REFER TO DRAWING SSDA403

PROPOSED RECESSED DOCK 1300 DEEP

RAMP WITH MAX GRADE AS SHOWN AND TRANSITIONS TOP AND BOTTOM PER NOTE 7 ON DRAWING SSDA500.

AWNING ABOVE

PROPOSED PILE WALL IN CUT

PROPOSED PUMP ROOM

PROPOSED SPRINKLER TANK

M4 MOTORWAY

PROPOSED TIERED RETAINING WALL FOR PORTION HIGHER THAN 3m

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

PROPOSED ACCESS TO EXISTING ELECTRICAL TOWERS

HERITAGE SITE SHOWN THUS. NO WORKS WITHIN HERITAGE ZONE. MATCH LEVELS AT BOUNDARY OF HERITAGE SITE.

WETLAND
REFER TO DRAWING SSDA410

FINISHED LEVELS PLAN - WAREHOUSE 4
SCALE 1:500

LEGEND:

LEVELS DATUM IS AHD.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- EXISTING ROAD PAVEMENT
- NEW ASPHALT ROAD PAVEMENT
- FOOTPATH
- NEW VEHICLE CROSSING
- MAINTENANCE ACCESS TRACK

NOTES:

REFER TO DRAWING SSDA500 FOR FINISHED LEVELS NOTES.

5m 0 10 20 30 40 50m

SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	F
REVISED ARCHITECTURAL	08.03.24	E
REVISED ARCHITECTURAL	11.09.23	D
ACOUSTIC BUNDING & WALL TO WH3	10.07.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	07.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA503

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DRAWING TITLE: FINISHED LEVELS PLAN
WAREHOUSE 4

DRAWING No: C013904.03-SSDA503 ISSUE: H

PROPOSED BELOW GROUND OSD TANK:
REFER TO DRAWING SSDA404

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

ACCESS TO WAREHOUSE 5 FROM GWH DESIGNED BY ALTERNATE CONSULTANT. DESIGN DOCUMENTS REGARDING ACCESS FROM TFNSW ASSET TO FORM PART OF THE SSDA APPLICATION. LEVELS AT BOUNDARIES TO BE CONFIRMED.

GREAT WESTERN HIGHWAY

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

SITE BOUNDARY

PROPOSED SPRINKLER TANK & PUMP ROOM

PROPOSED RETAINING BELOW STRUCTURE

PROPOSED COMBINED OSD AND STORMWATER QUALITY SYSTEM:
REFER TO DRAWING SSDA404

CARPARK SET BELOW SUSPENDED WAREHOUSING ABOVE"

PROPOSED RETAINING WALL

PROPOSED WAREHOUSE 5
FFL RL 82.40±1000mm

PROPOSED RETAINING BELOW STRUCTURE

PROPOSED 1V:5H BATTER
(UP TO A MAXIMUM OF 1V:3H)

PROPOSED RETAINING WALL

CULVERT OR SIMILAR BRIDGING STRUCTURE BELOW WAREHHOUSE TO EXTERNAL PARKING AREA

PROPOSED RETAINING WALL

PROPOSED BELOW GROUND OSD TANK:
REFER TO DRAWING SSDA404

M4 MOTORWAY

PROPOSED ACCESS TO EXISTING ELECTRICAL TOWERS

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

WETLAND
REFER TO DRAWING SSDA410

1V:1H BATTER TO BE STABILISED WITH ROCK BOULDERS ON MASS CONCRETE OR LANDLOK 450 (OR SIMILAR APPROVED). TBC DURING DETAILED DESIGN.

BREAKLINE - REFER TO DRAWING SSDA503 FOR CONTINUATION

LEGEND:

LEVELS DATUM IS AHD.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- EXISTING ROAD PAVEMENT
- NEW ASPHALT ROAD PAVEMENT
- FOOTPATH
- NEW VEHICLE CROSSING
- MAINTENANCE ACCESS TRACK

NOTES:

REFER TO DRAWING SSDA500 FOR FINISHED LEVELS NOTES.

FINISHED LEVELS PLAN - WAREHOUSE 5 GROUND FLOOR

SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	F
REVISED ARCHITECTURAL MASTERPLAN	08.03.24	E
REVISED ARCHITECTURAL MASTERPLAN	11.09.23	D
REVISED AS CLOUDED	10.07.23	C
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ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE
ACCESS TRACKS DETAILS PROVIDED	07.08.24	H
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

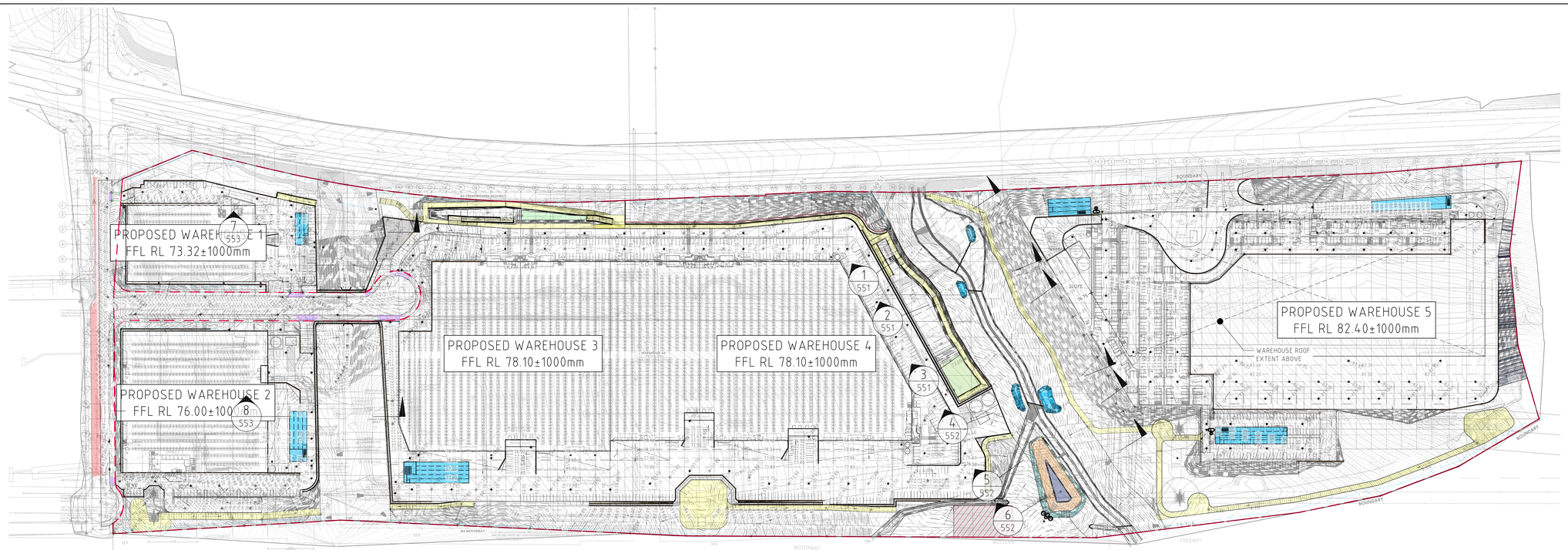
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA504

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DRAWING TITLE
FINISHED LEVELS PLAN
WAREHOUSE 5 GROUND FLOOR

DRAWING No C013904.03-SSDA504
ISSUE H



KEY SECTIONS PLAN
SCALE 1:1500

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	08.08.24	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
REVISED AS CLOUDED	13.03.24	B
ISSUED FOR INFORMATION	06.03.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA550

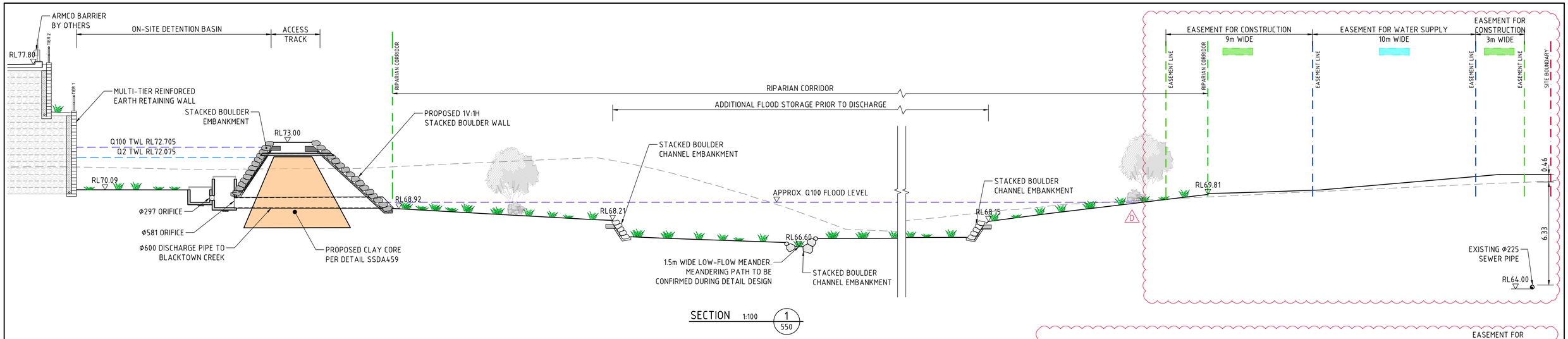
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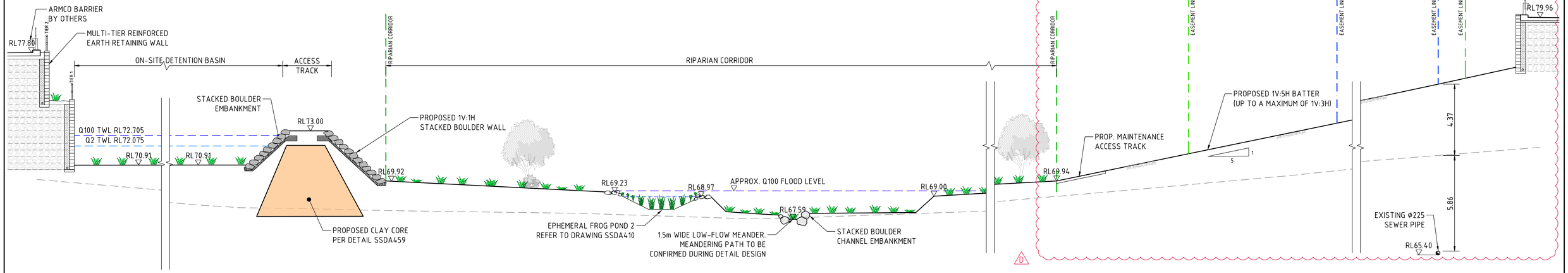
COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
KEY SECTIONS PLAN
BLACKTOWN CREEK AND WESTERN SWALE

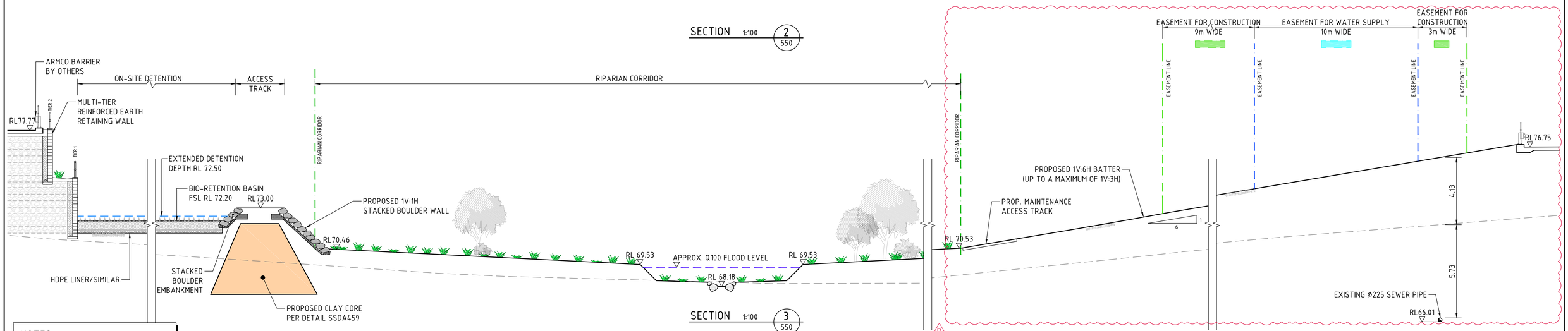
DRAWING No C013904.03-SSDA550
ISSUE D



SECTION 1:100 1/550



SECTION 1:100 2/550



SECTION 1:100 3/550

NOTES:

FOR EASEMENT PLAN, REFER TO SSDA155

1m 0 1 2 3 4 5 6 7 8 9 10m

SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	08.08.24	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
REVISED AS CLOUDED	13.03.24	B
ISSUED FOR INFORMATION	06.03.24	A

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

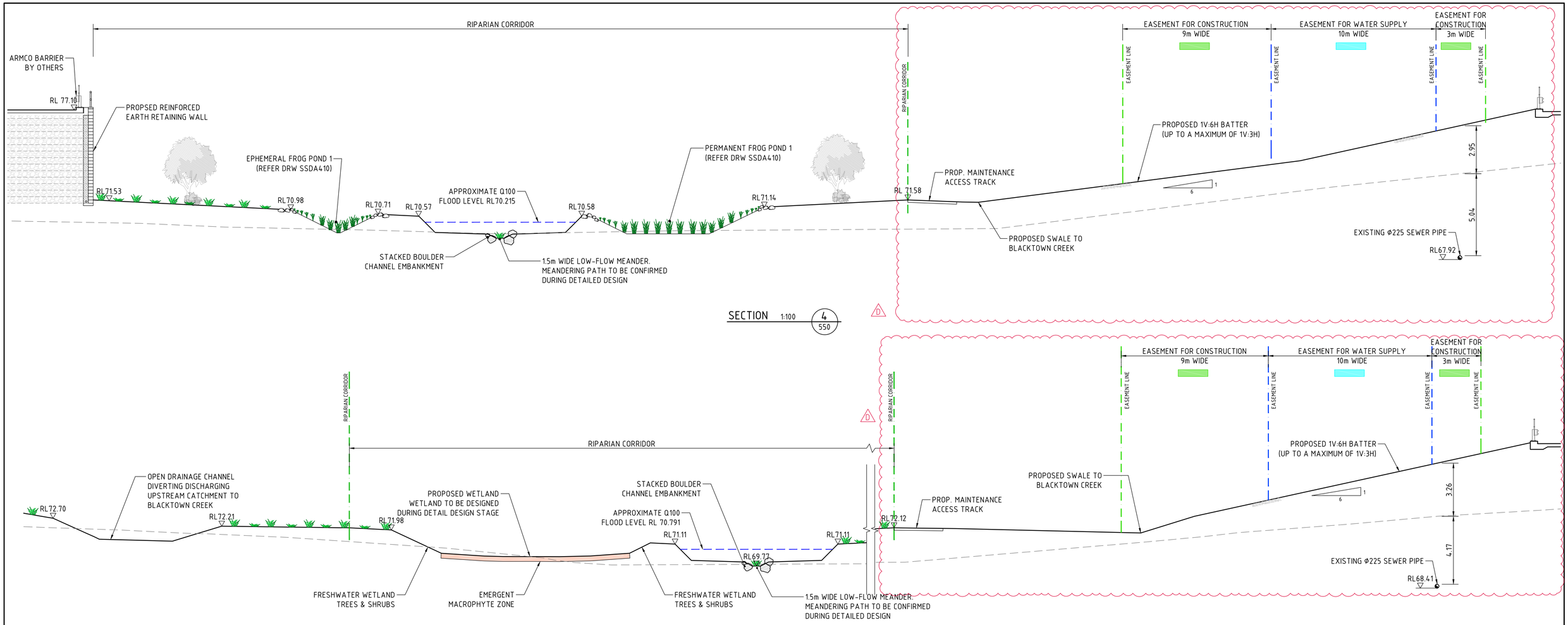
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA551

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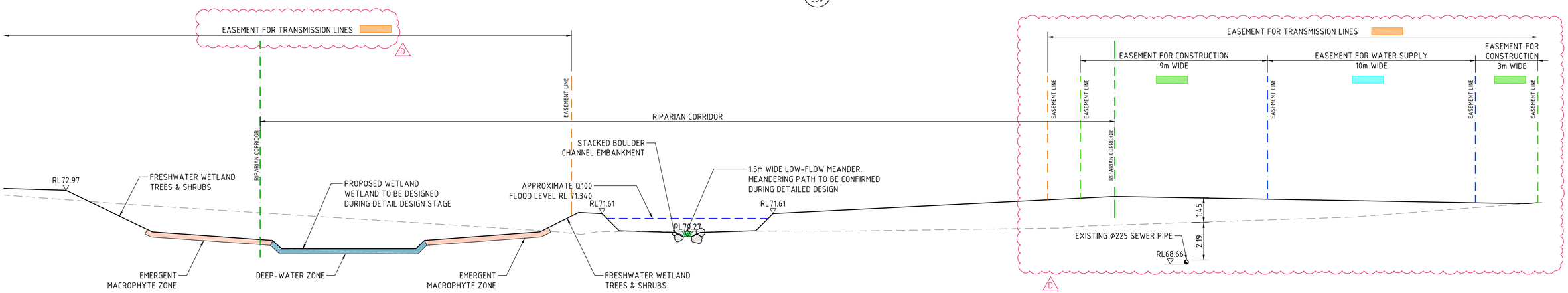
DRAWING TITLE: BLACKTOWN CREEK SECTIONS SHEET 1

DRAWING No: C013904.03-SSDA551 ISSUE: D



SECTION 1:100 4/550

SECTION 1:100 5/550



SECTION 1:100 6/550

NOTES:
FOR EASEMENT PLAN, REFER TO SSDA155

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	08.08.24	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
REVISED AS CLOUDED	13.03.24	B
ISSUED FOR INFORMATION	06.03.24	A

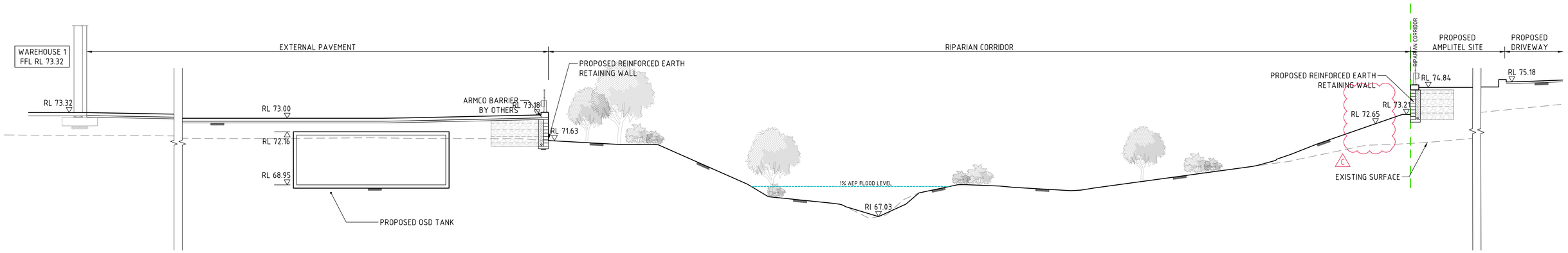
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA552

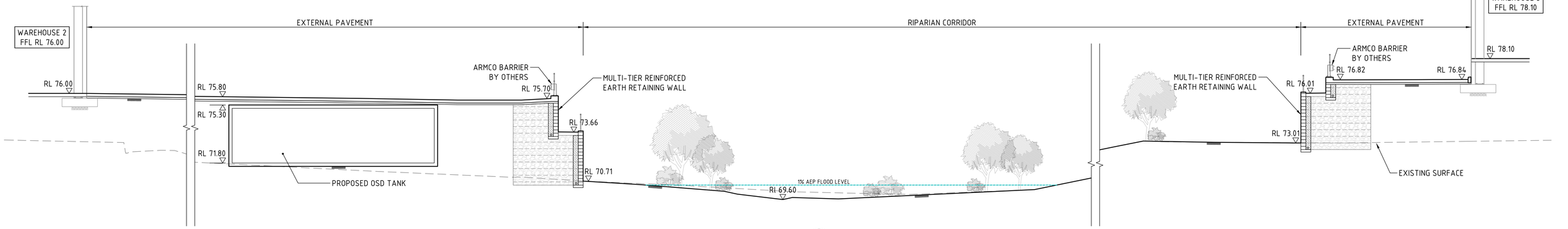
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DRAWING TITLE: BLACKTOWN CREEK SECTIONS SHEET 2
DRAWING No: C013904.03-SSDA552
ISSUE: D



SECTION 1:100 — 7 / 550



SECTION 1:100 — 8 / 550

1m 0 1 2 3 4 5 6 7 8 9 10m

SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	08.08.24	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
REVISED AS CLOUDED	13.03.24	B
ISSUED FOR INFORMATION	06.03.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA 553

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DRAWING TITLE: WESTERN SWALE SECTIONS SHEET 1

DRAWING No: C013904.03-SSDA553 ISSUE: D

ACCESS TO LOT 2 WILL BE VIA THE EXISTING TRANSMISSION TOWERS OFF FLUSHCOMBE ROAD

DENOTES EXISTING POWER LINE. LINE 1

TRANSMISSION TOWER

TRANSMISSION TOWER

ACCESS TO TRANSMISSION TOWERS FROM BUILDING 4 HARDSTAND.

TRANSMISSION TOWER

TRANSMISSION TOWER

ACCESS TO TRANSMISSION TOWERS FROM BUILDING 5 OVERFLOW PARKING AREA.

2 - SSDA55

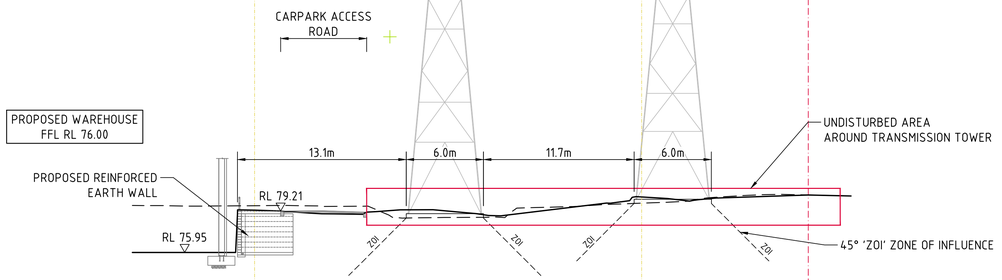
3 - SSDA55

PLAN
SCALE 1:1000

LEGEND:

——— - DENOTES BULK EARTHWORKS

— — — - DENOTES EXISTING PROFILE



DATUM 68.00

| | | |

ACCESS TO LOT 2 WILL BE VIA THE EXISTING TRANSMISSION TOWERS OFF FLUSHCOMBE ROAD

DENOTES EXISTING POWER LINE. LINE 1

TRANSMISSION TOWER

TRANSMISSION TOWER

ACCESS TO TRANSMISSION TOWERS FROM BUILDING 4 HARDSTAND.

TRANSMISSION TOWER

TRANSMISSION TOWER

ACCESS TO TRANSMISSION TOWERS FROM BUILDING 5 OVERFLOW PARKING AREA.

2 SSDA55

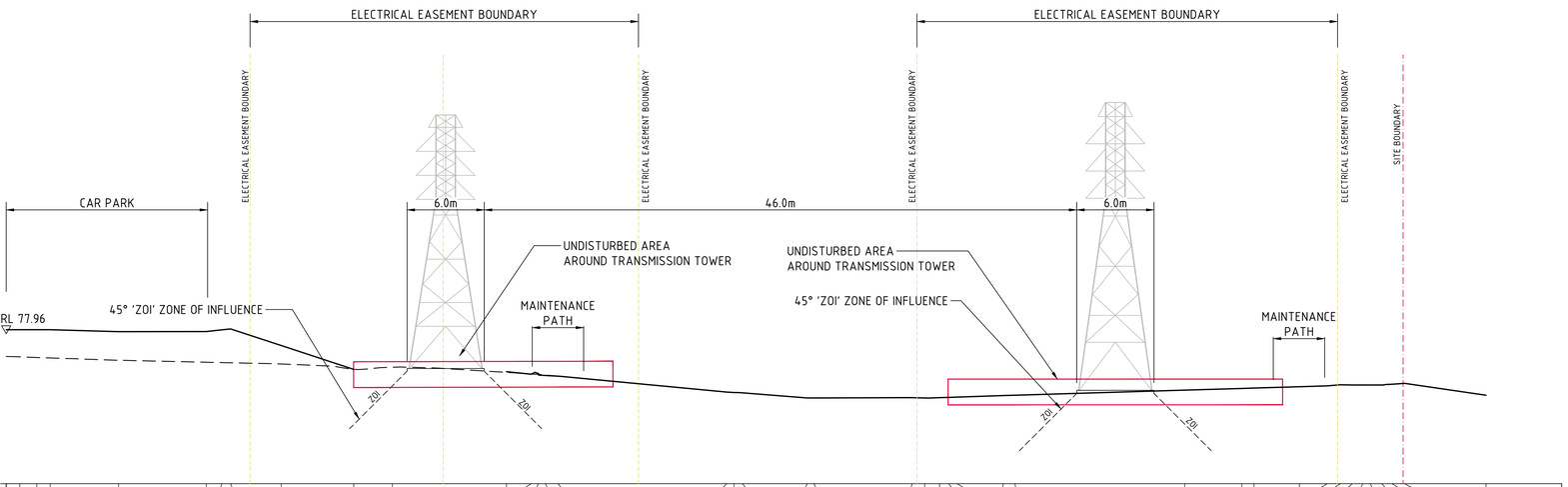
3 SSDA55

PLAN
SCALE 1:1000

LEGEND:

——— - DENOTES BULK EARTHWORKS

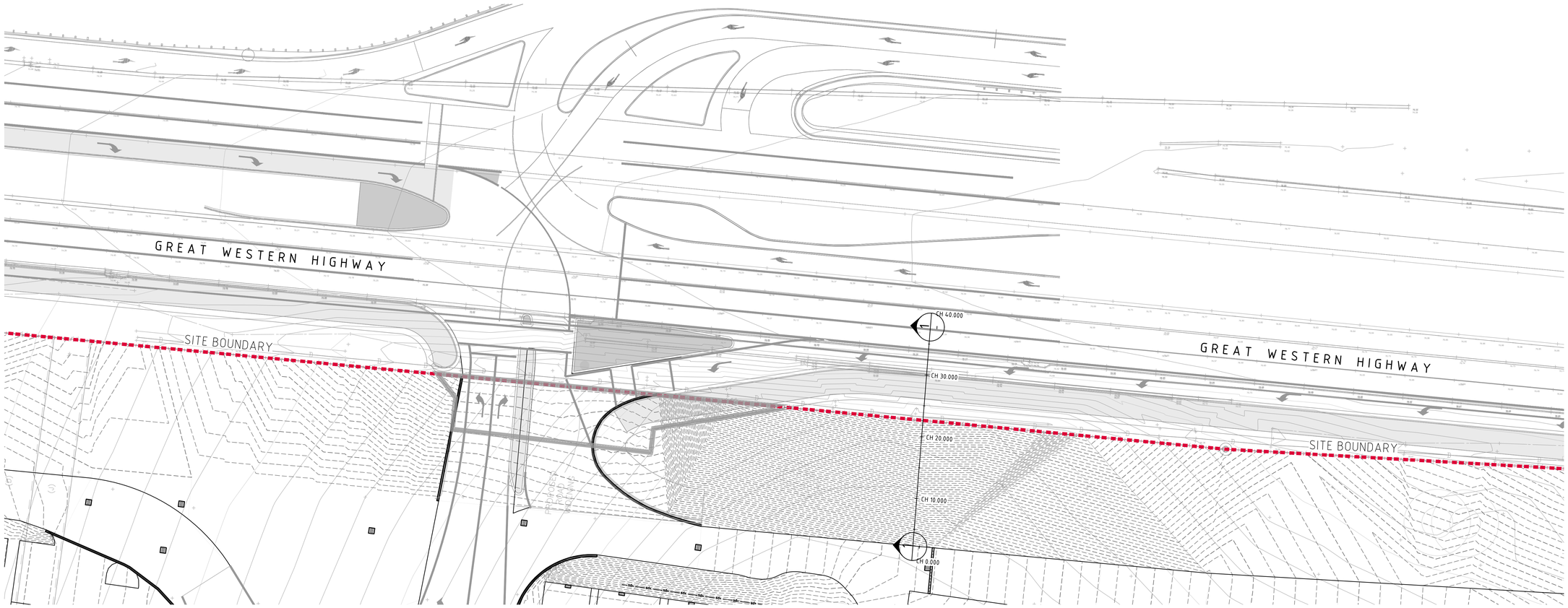
— — — - DENOTES EXISTING PROFILE



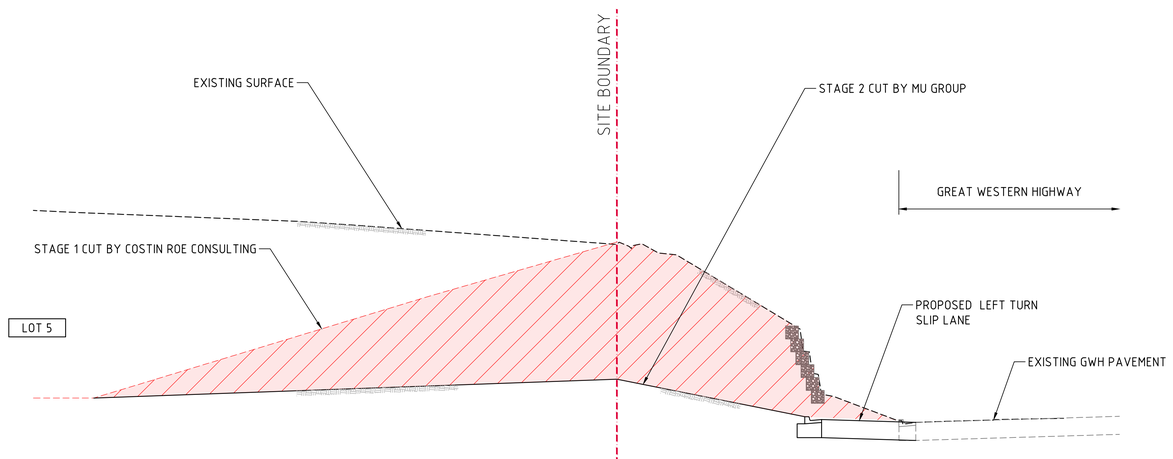
| | | |


FLUSHCOMBE ROAD
SITE BOUNDARY
PARKING
HARDSTAND
RIPARIAN ZONE
12.51m
DENOTES EXISTING POWER LINE LEVEL
DENOTES EXISTING LEVEL
DENOTES DESIGN LEVEL
UNDISTURBED AREA AROUND TRANSMISSION TOWER
TIERED RETAINING WALL
TIERED RETAINING WALL
FILL
FILL
DATUM 68.00

| | | |



TYPICAL GREAT WESTERN HIGHWAY SECTION
SCALE 1:300



SECTION 1:50 (1)
NOMINAL GREAT WESTERN HIGHWAY SECTION

3m 0 5 10 15 20 25 30m
SCALE 1:300 AT B1 SIZE SHEET

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA558

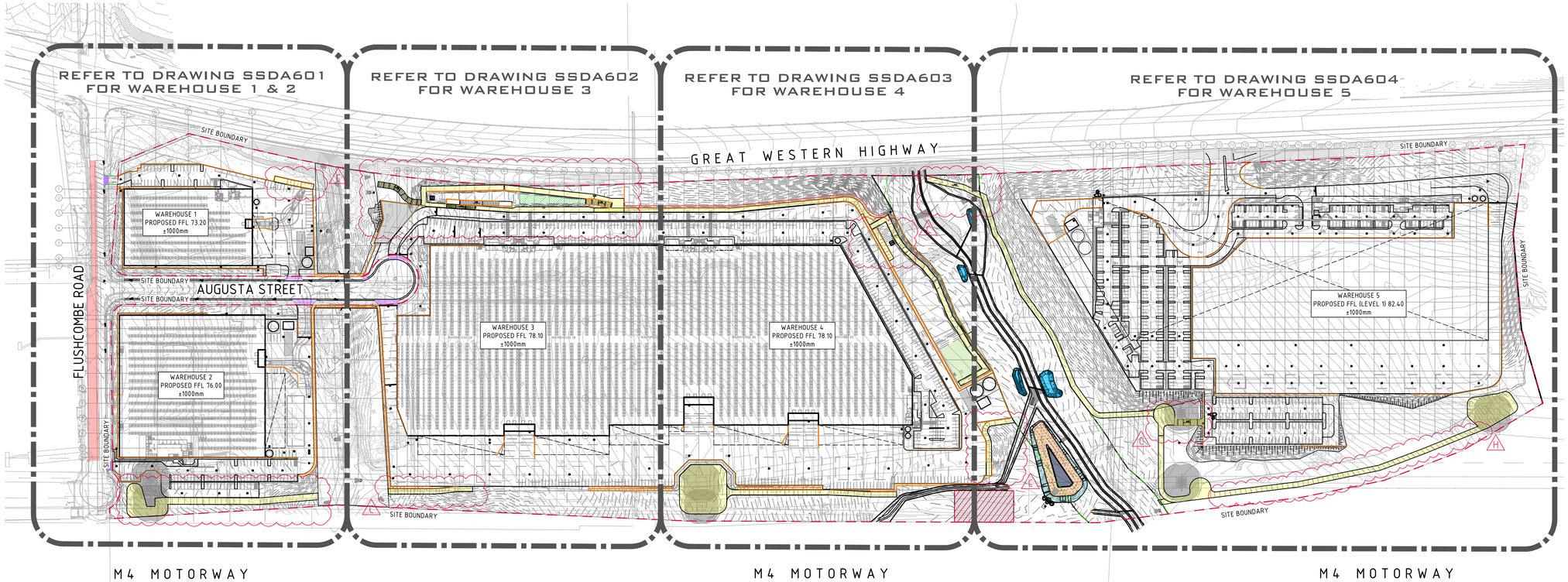
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DRAWING TITLE: TYPICAL GREAT WESTERN HIGHWAY SECTION

DRAWING No: C013904.03-SSDA558 ISSUE: B



RETAINING WALL SETOUT PLAN
SCALE 1:500

REINFORCED EARTH RETAINING WALL NOTES:

1. ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS REFERRED TO THEREIN.
2. MINIMUM HEIGHT (H) TO GEOGRID REINFORCEMENT LENGTH (L) TO BE 1.0.
3. MINIMUM BEARING CAPACITY OF FOUNDATION (BASED ON MINIMUM H/L RATIO OF 1.0) TO BE AS FOLLOWS :
   a. H MAX. 2.0m = 100 kPa
   b. H MAX. 3.5m = 150 kPa
   c. H MAX. 5.0m = 200 kPa
   BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
4. WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 100% SMDD AND PLACED WITHIN 2% OF OMC.
5. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O. ON PLAN:
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. THE GEOGRIDS SHALL BE OF THE TYPE AND INDEX STRENGTH NOMINATED ON THE DRAWINGS. THE MINIMUM GEOGRIDS SHALL BE A SINGLE LENGTH IN THE DIRECTION OF DESIGN TENSION, NOT LAPPED, MAKING PROVISION FOR CONNECTION TO THE FACING ACROSS THE WHOLE WIDTH OF THE FACING AND PROVIDING FOR THE SPECIFIED ANCHORAGE WITHIN THE DESIGNATED ANCHORAGE ZONE. GEOGRIDS SHALL COVER THE WHOLE OF THE PLAN AREA BEHIND THE WALL FOR THE SPECIFIED ANCHORAGE LENGTH AND SHALL BE LAPPED WITH ADJACENT SECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm.
8. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
9. SELECT BACKFILL MATERIAL WITHIN THE REINFORCED SOIL BLOCK SHALL BE SOUND GRANULAR MATERIAL OF NATURAL OR INDUSTRIAL ORIGIN, NON-EXPANSIVE, FREE FROM ORGANIC OR OTHER DELETERIOUS MATERIAL CONFORMING TO THE PHYSICAL, CHEMICAL AND ELECTROCHEMICAL LIMITS AS SPECIFIED AND SHALL NOT BE SUBJECT TO BREAKDOWN UNDER COMPACTION. THE SELECT BACKFILL MATERIAL IS TO HAVE THE FOLLOWING PARAMETERS:
   a. MINIMUM INTERNAL FRICTION, Ø = 34°
   b. EFFECTIVE COHESION, C'= 0 kPa
   c. UNIT WEIGHT = 21 kN/m³
   d. PH BETWEEN 4 AND 9.
10. SELECT BACKFILL IS TO BE PLACED AND COMPACTED IN LAYERS NOT MORE THAN 300mm (LOOSE). COMPACTION TO NOT LESS THAN 100% SMDD WILL BE ACHIEVED AND MATERIAL PLACED WITHIN 2% OF OMC. DENSITY TESTING SHALL BE PERFORMED IN EACH COMPACTED LIFT IN ACCORDANCE WITH AS3798.
11. PROVIDE A DRAINAGE LAYER DIRECTLY BEHIND THE FACING UNITS IN A MINIMUM 300mm WIDE 12-20mm AGGREGATE LAYER. FACING UNIT VOIDS TO BE FILLED WITH AGGREGATE. PROVIDE 100mm MINIMUM AG. DRAIN IN GEOTEXTILE SOCK AT TOE OF WALL FACING AND CONNECT TO DRAINAGE SYSTEM AT 30m MAX. SPACING.
12. THE NEED FOR A CHIMNEY DRAIN OR DRAINAGE AT THE REAR OF THE MASS SOIL BLOCK IS TO BE CONFIRMED ON SITE BY THE GEOTECHNICAL ENGINEER AND DESIGNER FOLLOWING PREPARATION OF THE FOUNDATION AND PRIOR TO CONSTRUCTION OF THE MASS SOIL BLOCK.
13. CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500kG STATIC WEIGHT IS TO BE KEPT BACK 1.5m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 1.5m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
14. ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.
15. TOP OF WALL HEIGHTS ARE NOTED TO ALIGN WITH FINISHED PAVEMENT HEIGHTS. THE CONTRACTOR AND THEIR DESIGN AND CONSTRUCT WALLING CONTRACTORS ARE TO ENSURE THAT ALL WALL STRAPS ARE INSTALLED BELOW THE DESIGN EARTHWORKS SUBGRADE. CONTRACTOR TO ALLOW FOR WALL STRAPS TO BE GRADED AWAY FROM THE FACE OF THE WALL OR OTHERWISE INSTALLED TO SUIT EARTHWORKS DESIGN LEVELS AND GRADES.
16. DIFFERENTIAL SETTLEMENT NOTE:
    FUTURE BUILDING AND SERVICE DESIGNERS TO CONSIDER DIFFERENTIAL SETTLEMENT OF REINFORCED EARTH WALL BLOCK AND GENERAL FILL AREAS. PARTICULAR ATTENTION TO BE DRAWN TO HEAVILY LOADED AREAS, OR DIFFERING LOADED AREAS (INCLUDING SPRINKLER TANK AND TRUCK PAVEMENT AREAS) AND WHERE SIGNIFICANT CHANGES IN OVERALL WALL HEIGHT OR FILL AMOUNTS ARE EXPERIENCED. IT IS THE RESPONSIBILITY OF THE FUTURE DESIGNERS TO ENSURE APPROPRIATE DESIGN CONSIDERATION TO DIFFERENTIAL SETTLEMENT ARE MADE DEPENDING ON THE DESIGN ELEMENT AND INTERACTION WITH RETAINED ELEMENTS AND GENERAL FILL MATERIAL.

RETAINING WALL NOTES:

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5. ON PLAN :
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm MINIMUM UNLESS NOTED OTHERWISE.
7. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
8. TIED WALLS ARE TO BE TEMPORARILY PROPPED AT TOP UNTIL SUCH TIME THE TOP OF WALL IS TIED TO THE SLAB AND 28-DAY CONCRETE STRENGTH HAS BEEN ACHIEVED.
9. CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500KG STATIC WEIGHT IS TO BE KEPT BACK 1.5m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 1.5m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
10. ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.
11. WALL ELEVATIONS ALLOW FOR NOMINAL EMBEDMENT DEPTHS. WHERE DESIGN AND CONSTRUCT (D+C) WALL SYSTEMS ARE PROPOSED IT IS THE CONTACTORS RESPONSIBILITY TO ALLOW FOR THE FINAL EMBEDMENT DEPTHS AS PER THE D+C DESIGN. ALLOWANCE FOR OVERALL WALL AREAS TO CONSIDER THE FINAL EMBEDMENT DEPTH.
12. WALL ELEVATIONS AND AREAS ARE BASED ON THE VERTICAL PLAN AREA. CONTRACTOR TO ALLOW ADDITIONAL SURFACE AREA WHERE WALLS ARE NOT VERTICAL OR HAVE BACKSLOPES.

EXISTING SERVICES NOTES:

1. DURING THE EXECUTION OF WORKS, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SERVICES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED TO THE EXISTING SERVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY, AT NO COST TO THE PRINCIPAL.
2. WHERE IT IS NECESSARY TO REMOVE, DIVERT OR CUT INTO ANY EXISTING SERVICE, THE CONTRACTOR SHALL GIVE AT LEAST THREE (3) DAYS NOTICE OF ITS REQUIREMENTS TO THE SUPERINTENDENT, WHO WILL ADVISE WHAT ARRANGEMENTS SHOULD BE MADE FOR THE ALTERATION OF SUCH EXISTING WORKS.
3. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE ACCURACY IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. ALL CLEARANCES AND APPROVALS SHALL ALSO BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL NEW AND EXHUMED SERVICES THAT CROSS EXISTING AND FUTURE ROADS/PAVEMENTS WITHIN THE SITE SHALL BE BACKFILLED WITH DGB20 MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 98% STANDARD DENSITY RATIO. SUBJECT TO PRIOR APPROVAL FROM RELEVANT AUTHORITY.
5. ON COMPLETION OF SERVICES INSTALLATION. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
6. CARE TO BE TAKEN WHEN EXCAVATING NEAR UTILITY SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER SERVICES. LIAISE WITH RELEVANT AUTHORITY.
7. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
8. THE CONTRACTOR IS TO MAINTAIN EXISTING STORMWATER DRAINAGE FLOWS THROUGH THE ROADS AT ALL TIMES. MAKE DUE ALLOWANCE FOR ALL SUCH FLOWS AT ALL TIMES.
9. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
10. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES AS REQUIRED TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
11. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE OR DAMAGE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
12. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR SSDA

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ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.08.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA600

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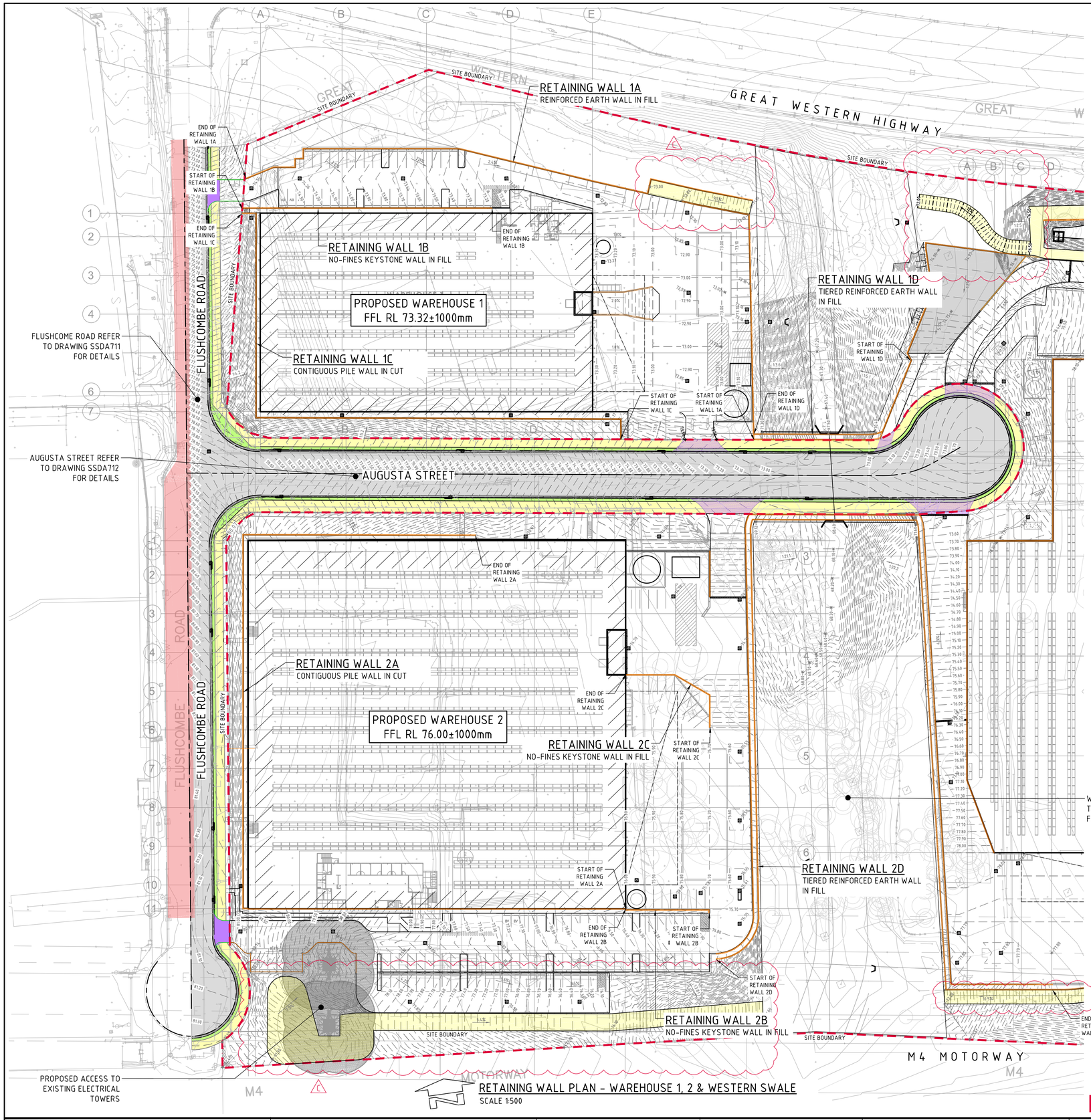
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DRAWING TITLE
RETAINING WALL SETOUT PLAN

DRAWING No C013904.03-SSDA600
ISSUE C

NOTE:

1. REFER TO DRAWING SSDA600 FOR RETAINING WALL NOTES.



RETAINING WALL PLAN - WAREHOUSE 1, 2 & WESTERN SWALE
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

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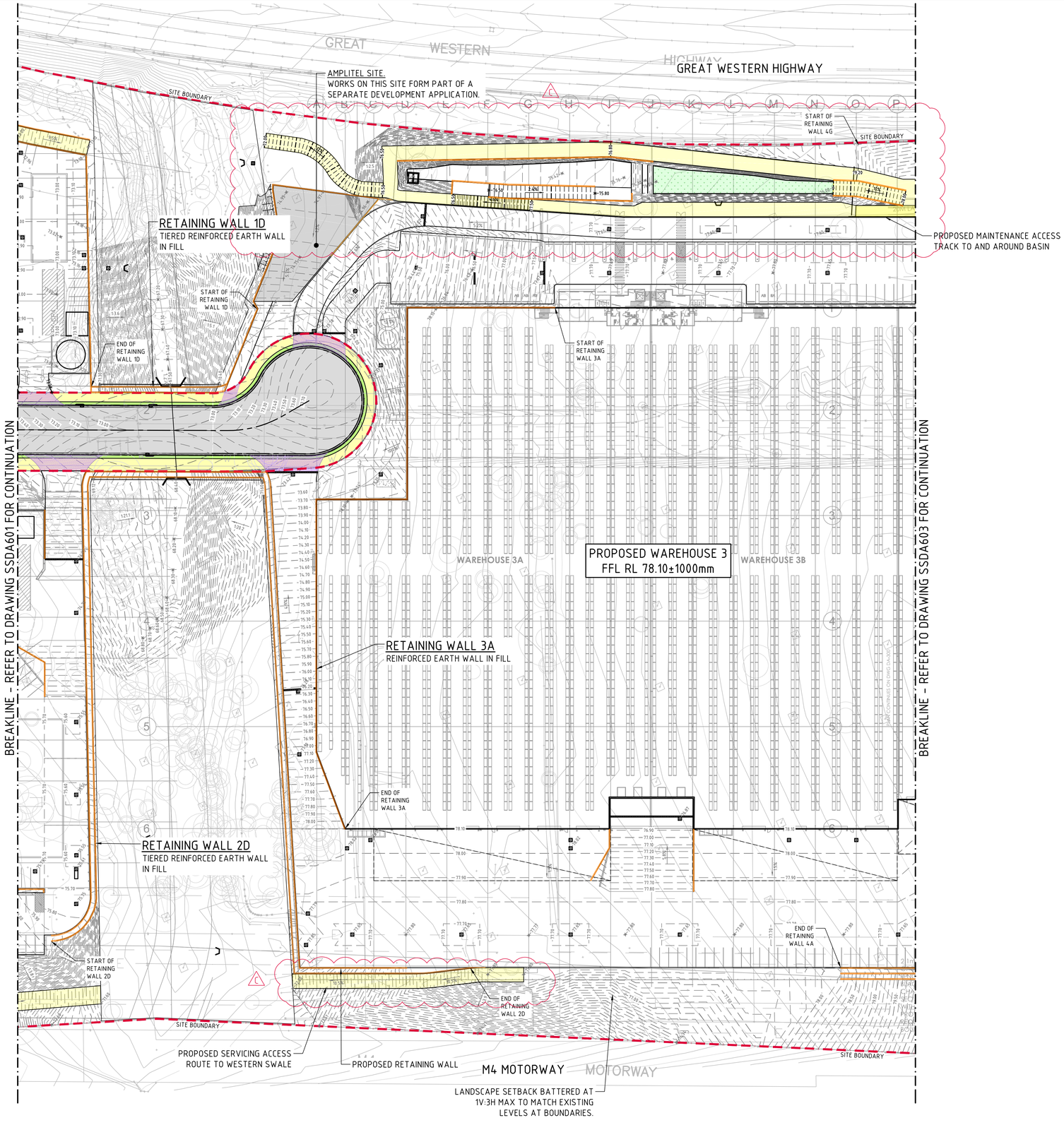
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DRAWING TITLE
RETAINING WALL PLAN
WAREHOUSE 1, 2 & WESTERN SWALE

DRAWING No C013904.03-SSDA601
ISSUE C

NOTE:

1. REFER TO DRAWING SSDA600 FOR RETAINING WALL NOTES.



RETAINING WALL PLAN - WAREHOUSE 3 & WESTERN SWALE
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

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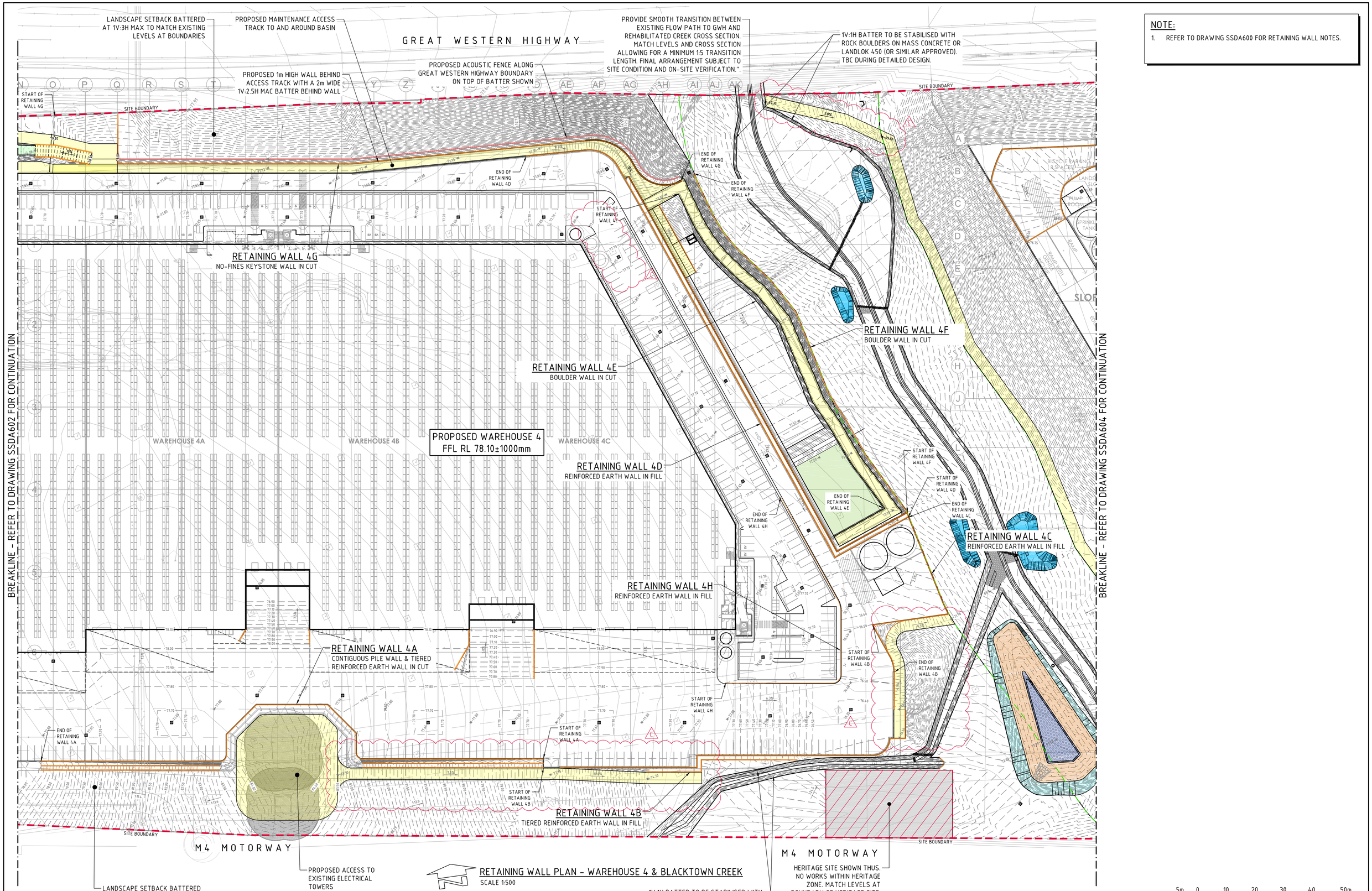
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PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

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LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA602

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DRAWING TITLE: RETAINING WALL PLAN WAREHOUSE 3 & WESTERN SWALE
DRAWING No: C013904.03-SSDA602
ISSUE: C



RETAINING WALL PLAN - WAREHOUSE 4 & BLACKTOWN CREEK
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

NOTE:
1. REFER TO DRAWING SSDA600 FOR RETAINING WALL NOTES.

FOR SSDA

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DRAWING TITLE: RETAINING WALL PLAN
WAREHOUSE 4 & BLACKTOWN CREEK

DRAWING No: C013904.03-SSDA603
ISSUE: C

GREAT WESTERN HIGHWAY

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

SITE BOUNDARY

RETAINING WALL 5F
BLOCK RETAINING WALL IN CUT

START OF RETAINING WALL 5F

END OF RETAINING WALL 5F

START OF RETAINING WALL 5G

RETAINING WALL 5G
BLOCK RETAINING WALL IN CUT

END OF RETAINING WALL 5G

RETAINING WALL 5E
REINFORCED EARTH WALL IN FILL

START OF RETAINING WALL 5E

RETAINING WALL 5D
REINFORCED EARTH WALL IN FILL

START OF RETAINING WALL 5D

END OF RETAINING WALL 5E

END OF RETAINING WALL 5D

RETAINING WALL 5C
REINFORCED EARTH WALL IN FILL

START OF RETAINING WALL 5C

START OF RETAINING WALL 5A

PROPOSED WAREHOUSE 5
FFL RL 82.40±1000mm

RETAINING WALL 5A
CONTIGUOUS PILE WALL IN CUT

END OF RETAINING WALL 5C

END OF RETAINING WALL 5A

RETAINING WALL 5B
REINFORCED EARTH WALL IN CUT

END OF RETAINING WALL 5B

START OF RETAINING WALL 5B

PROPOSED ACCESS TO EXISTING ELECTRICAL TOWERS

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES

M4 MOTORWAY

SITE BOUNDARY

PROPOSED 1V:5H BATTER (UP TO A MAXIMUM OF 1V:3H)

1V:1H BATTER TO BE STABILISED WITH ROCK BOULDERS ON MASS CONCRETE OR LANDLOK 450 (OR SIMILAR APPROVED). TBC DURING DETAILED DESIGN.

BREAKLINE - REFER TO DRAWING SSDA603 FOR CONTINUATION

4m SHARED PATH

RETAINING WALL TO CIVIL ENG.

EDGE OF WAREHOUSES ABOVE

EDGE OF HARDSTAND ABOVE

EDGE OF LEVEL 2 RAMP ABOVE

EDGE OF LEVEL 1 ABOVE

EDGE OF LEVEL 2 ABOVE

SLOPE

CAR PARK (306 SPACES)

CAR PARK (30 SPACES)

MOTORCYCLE PARKING (4 SPACES)

BICYCLE PARKING (4 SPACES)

BICYCLE PARKING (8 SPACES)

LANDSCAPING

SUBSTATION

FIRE CONTROL ROOM

PUMP ROOM

SPRINKLER TANK

SPRINKLER TANK

TRUCK BAY

TURNING BAY

LOBBY

OSD BASIN

SECURE ACCESS GATE FOR ENDEAVOUR ENERGY VEHICLES

ACCESS TRACKS FOR ENDEAVOUR ENERGY VEHICLES

RETAINING WALL PLAN - WAREHOUSE 5 & BLACKTOWN CREEK
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

NOTE:
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FOR SSDA

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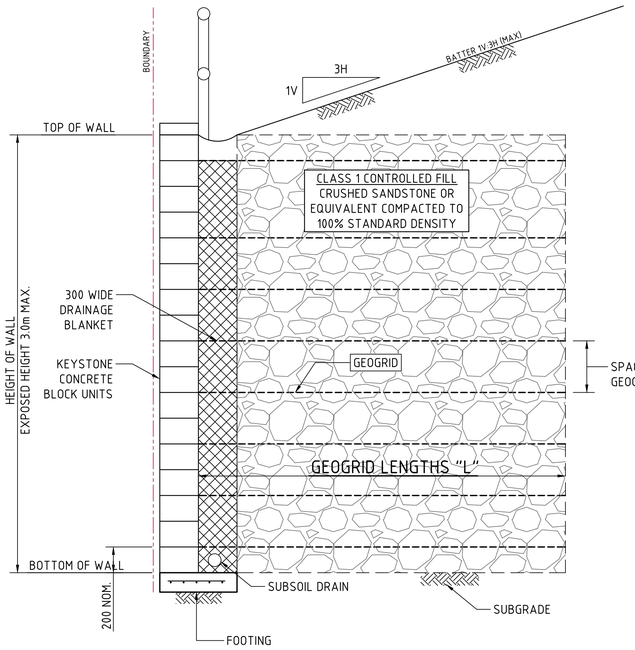
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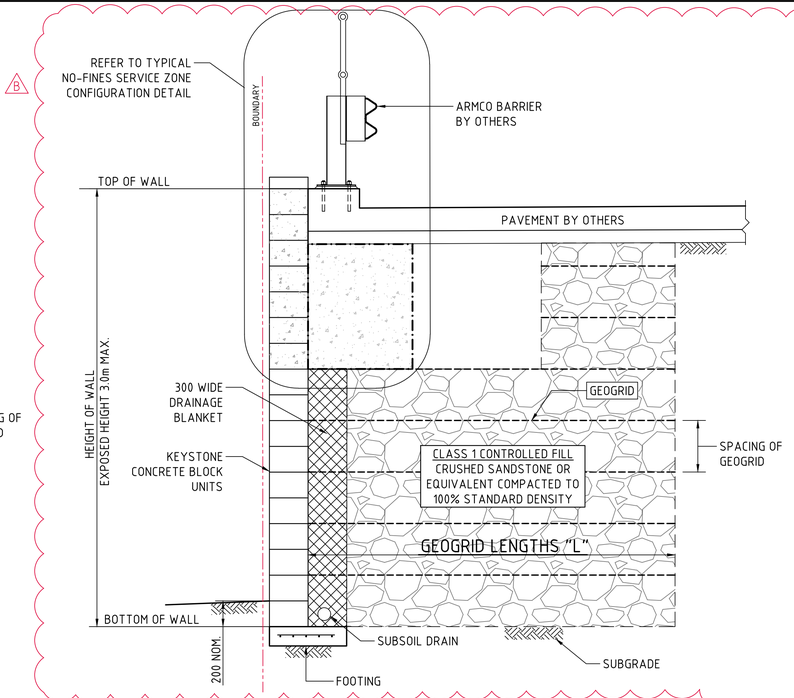
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DRAWING TITLE: RETAINING WALL PLAN
WAREHOUSE 5 & BLACKTOWN CREEK

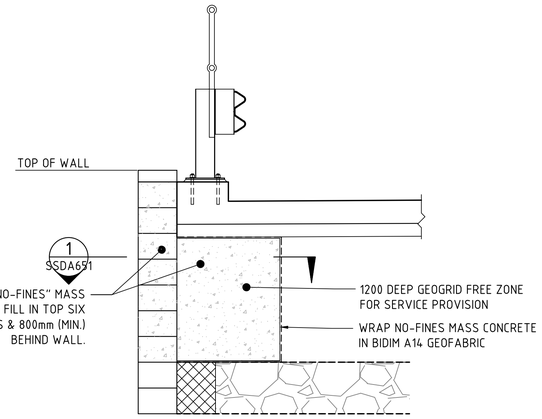
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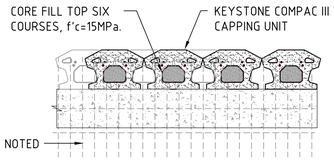
RETAINING WALL TYPE 1
(REINFORCED EARTH WALL)
SCALE 1:20



RETAINING WALL TYPE 2
(REINFORCED EARTH WALL)
SCALE 1:20



TYPICAL NO-FINES SERVICE ZONE CONFIGURATION
SCALE 1:20



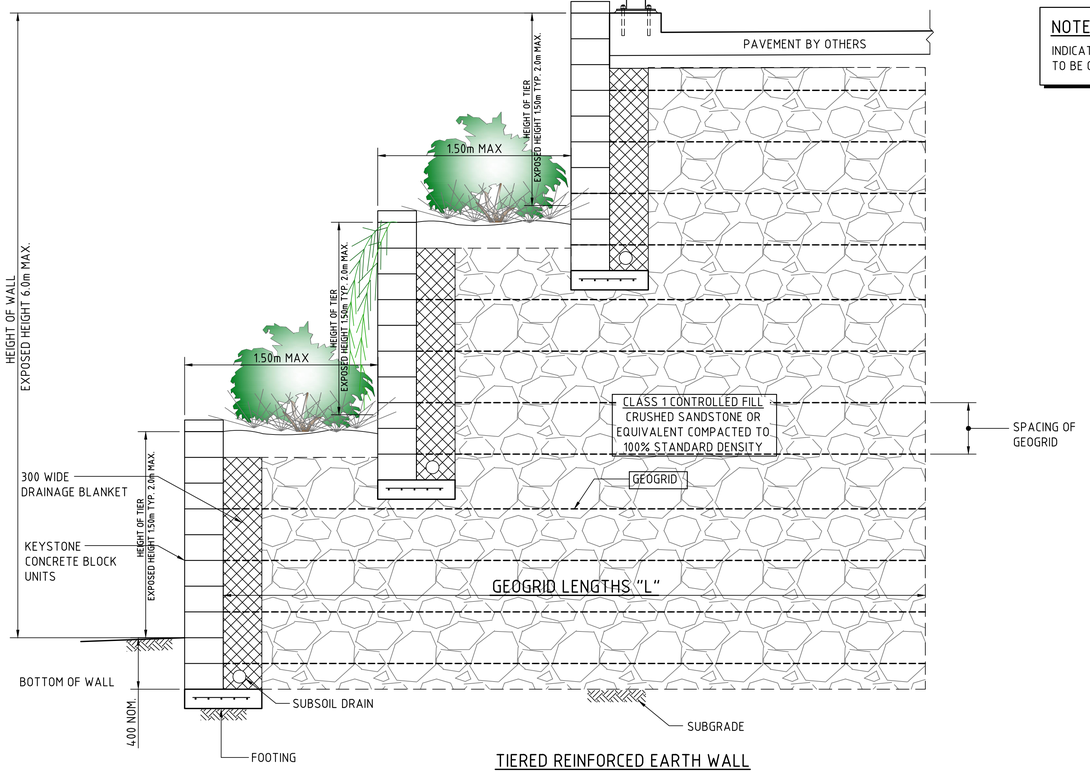
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RETAINING WALL NOTES:

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   b. H MAX. 3.5m = 150 kPa
   c. H MAX. 5.0m = 200 kPa
   BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
3. WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 100% SMDD AND PLACED WITHIN 2% OF OMC.
4. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O.
5. ON PLAN :
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm MINIMUM UNLESS NOTED OTHERWISE.
7. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
8. TIED WALLS ARE TO BE TEMPORARILY PROPPED AT TOP UNTIL SUCH TIME THE TOP OF WALL IS TIED TO THE SLAB AND 28-DAY CONCRETE STRENGTH HAS BEEN ACHIEVED.
9. CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500KG STATIC WEIGHT IS TO BE KEPT BACK 1.5m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 1.5m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
10. ALL DESIGN AND CONSTRUCT WALL SYSTEMS TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.

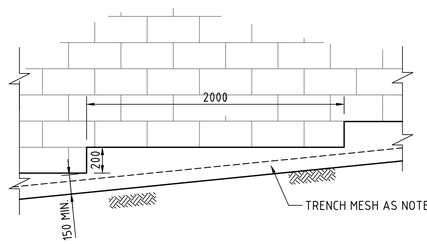
REINFORCED EARTH RETAINING WALL NOTES:

1. ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS REFERRED TO THEREIN.
2. MINIMUM HEIGHT (H) TO GEOGRID REINFORCEMENT LENGTH (L) TO BE 1.0.
3. MINIMUM BEARING CAPACITY OF FOUNDATION (BASED ON MINIMUM H/L RATIO OF 1.0) TO BE AS FOLLOWS :
   a. H MAX. 2.0m = 100 kPa
   b. H MAX. 3.5m = 150 kPa
   c. H MAX. 5.0m = 200 kPa
   BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
4. WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 100% SMDD AND PLACED WITHIN 2% OF OMC.
5. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O. ON PLAN:
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. THE GEOGRIDS SHALL BE OF THE TYPE AND INDEX STRENGTH NOMINATED ON THE DRAWINGS. THE MINIMUM GEOGRIDS SHALL BE A SINGLE LENGTH IN THE DIRECTION OF DESIGN TENSION, NOT LAPPED, MAKING PROVISION FOR CONNECTION TO THE FACING ACROSS THE WHOLE WIDTH OF THE FACING AND PROVIDING FOR THE SPECIFIED ANCHORAGE WITHIN THE DESIGNATED ANCHORAGE ZONE. GEOGRIDS SHALL COVER THE WHOLE OF THE PLAN AREA BEHIND THE WALL FOR THE SPECIFIED ANCHORAGE LENGTH AND SHALL BE LAPPED WITH ADJACENT SECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm.
8. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
9. SELECT BACKFILL MATERIAL WITHIN THE REINFORCED SOIL BLOCK SHALL BE SOUND GRANULAR MATERIAL OF NATURAL OR INDUSTRIAL ORIGIN, NON-EXPANSIVE, FREE FROM ORGANIC OR OTHER DELETERIOUS MATERIAL CONFORMING TO THE PHYSICAL, CHEMICAL AND ELECTROCHEMICAL LIMITS AS SPECIFIED AND SHALL NOT BE SUBJECT TO BREAKDOWN UNDER COMPACTION. THE SELECT BACKFILL MATERIAL IS TO HAVE THE FOLLOWING PARAMETERS:
   a. MINIMUM INTERNAL FRICTION, Ø = 34°
   b. EFFECTIVE COHESION, C' = 0 kPa
   c. UNIT WEIGHT = 21 kN/m³
   d. PH BETWEEN 4 AND 9.
10. SELECT BACKFILL IS TO BE PLACED AND COMPACTED IN LAYERS NOT MORE THAN 300mm (LOOSE). COMPACTION TO NOT LESS THAN 100% SMDD WILL BE ACHIEVED AND MATERIAL PLACED WITHIN 2% OF OMC. DENSITY TESTING SHALL BE PERFORMED IN EACH COMPACTED LIFT IN ACCORDANCE WITH AS3798.
11. PROVIDE A DRAINAGE LAYER DIRECTLY BEHIND THE FACING UNITS IN A MINIMUM 300mm WIDE 12–20mm AGGREGATE LAYER. FACING UNIT VOIDS TO BE FILLED WITH AGGREGATE. PROVIDE 100mm MINIMUM AG. DRAIN IN GEOTEXTILE SOCK AT TOE OF WALL FACING AND CONNECT TO DRAINAGE SYSTEM AT 30m MAX. SPACING.
12. THE NEED FOR A CHIMNEY DRAIN OR DRAINAGE AT THE REAR OF THE MASS SOIL BLOCK IS TO BE CONFIRMED ON SITE BY THE GEOTECHNICAL ENGINEER AND DESIGNER FOLLOWING PREPARATION OF THE FOUNDATION AND PRIOR TO CONSTRUCTION OF THE MASS SOIL BLOCK.
13. CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500kG STATIC WEIGHT IS TO BE KEPT BACK 1.5m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 1.5m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
14. ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.
15. TOP OF WALL HEIGHTS ARE NOTED TO ALIGN WITH FINISHED PAVEMENT HEIGHTS. THE CONTRACTOR AND THEIR DESIGN AND CONSTRUCT WALLING CONTRACTORS ARE TO ENSURE THAT ALL WALL STRAPS ARE INSTALLED BELOW THE DESIGN EARTHWORKS SUBGRADE. CONTRACTOR TO ALLOW FOR WALL STRAPS TO BE GRADED AWAY FROM THE FACE OF THE WALL OR OTHERWISE INSTALLED TO SUIT EARTHWORKS DESIGN LEVELS AND GRADES.
16. DIFFERENTIAL SETTLEMENT NOTE:
    FUTURE BUILDING AND SERVICE DESIGNERS TO CONSIDER DIFFERENTIAL SETTLEMENT OF REINFORCED EARTH WALL BLOCK AND GENERAL FILL AREAS. PARTICULAR ATTENTION TO BE DRAWN TO HEAVILY LOADED AREAS, OR DIFFERING LOADED AREAS (INCLUDING SPRINKLER TANK AND TRUCK PAVEMENT AREAS) AND WHERE SIGNIFICANT CHANGES IN OVERALL WALL HEIGHT OR FILL AMOUNTS ARE EXPERIENCED. IT IS THE RESPONSIBILITY OF THE FUTURE DESIGNERS TO ENSURE APPROPRIATE DESIGN CONSIDERATION TO DIFFERENTIAL SETTLEMENT ARE MADE DEPENDING ON THE DESIGN ELEMENT AND INTERACTION WITH RETAINED ELEMENTS AND GENERAL FILL MATERIAL.



TIERED REINFORCED EARTH WALL
SCALE 1:20

NOTE :
INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



REINFORCED EARTH WALL TYPICAL LEVELLING STRIP STEP DETAIL
SCALE 1:20

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR SSDA

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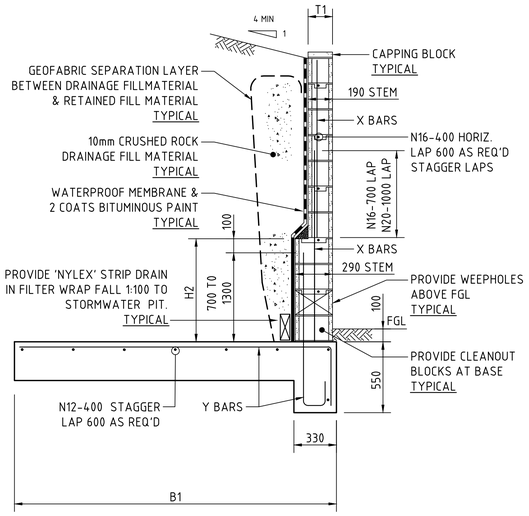
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA650

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DRAWING TITLE: RETAINING WALL DETAILS SHEET 1
DRAWING No: C013904.03-SSDA650
ISSUE: B



WALL WITH THIN STEM OF 190 BLOCK AND THICK STEM OF 290 BLOCK

1:20 SCALE

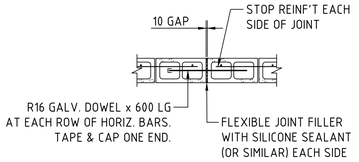
NOTE :
ALL BLOCK CORES TO BE FULLY GROUTED.
NOTES SHOWN ARE TYPICAL FOR ALL WALLS.
ALL BASE KEYS TO BE POURED AGAINST UNDISTURBED NATURAL GROUND.

RETAINING WALL TYPE 1 SPECIFICATIONS FOR 1 IN 4 BACKFILL OR 5kPa SURCHARGE :

RETAINED HEIGHT H1	290 STEM HEIGHT H2	BASE WIDTH B1	(THIN) STEM THICKNESS T1	REINF'T. X BARS	REINF'T. Y BARS
3400	1400	3600	190	N16-200	N20-200
3200	1200	3300	190	N16-200	N20-200
3000	1000	3000	190	N16-200	N16-200
2800	1000	2800	190	N16-400	N16-200
2600	1000	2500	190	N16-400	N16-200
2400	800	2300	190	N16-400	N16-400
2200	800	2100	190	N16-400	N16-400
2000	N/A	1800	190	N16-400	N16-200
1800	N/A	1600	190	N16-400	N16-400
1600	N/A	1400	190	N16-400	N16-400
1400	N/A	1200	190	N16-400	N16-400
1200	N/A	1000	140	N12-400	N12-400
1000	N/A	900	140	N12-400	N12-400
800	N/A	800	140	N12-400	N12-400
600	N/A	600	140	N12-400	N12-400

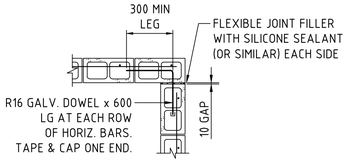
CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
CORE FILL	230	10	GP	NIL	20

NOTE :
INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



VERTICAL JOINT DETAIL

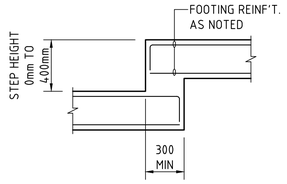
PROVIDE VERTICAL JOINTS IN BLOCKWORK 8.0M MAX. CENTRES



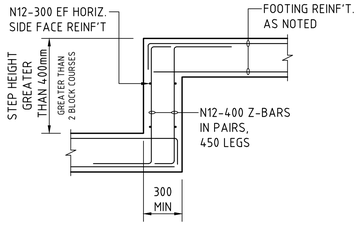
CORNER DETAIL

RETAINING WALL BLOCKWORK JOINTING DETAILS

1:20 SCALE



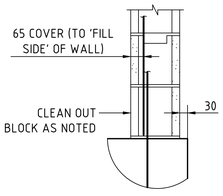
STEP HEIGHT 0mm TO 400mm



STEP HEIGHT GREATER THAN 400mm

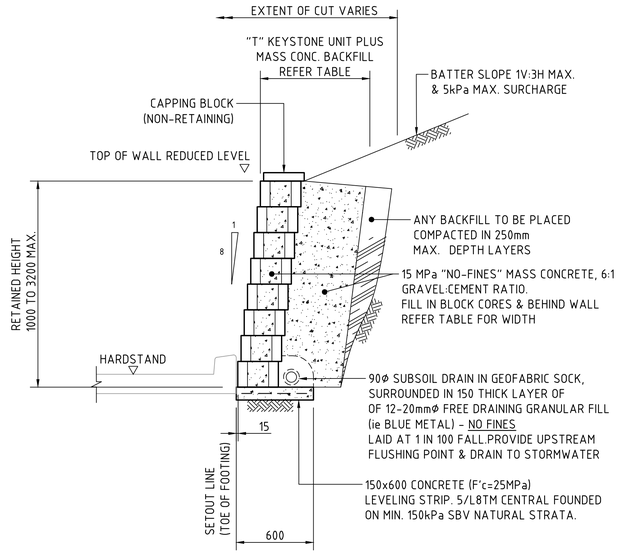
TYPICAL WALL FOOTING STEPS

1:20 SCALE



WALL VERTICAL REINF'T DETAIL TYPICAL

NOT TO SCALE



TYPICAL THRU' KEYSTONE RETAINING WALL (1000 TO 2500 MAXIMUM RETAINED HEIGHT)

1:20 SCALE

KEYSTONE WALL SPECIFICATIONS :

RETAINED HEIGHT (mm)	OVERALL THICKNESS "T" (mm)
UP TO 1000	600 - NO FINES MASS. CONC. FILL
1000 TO 1200	700 - NO FINES MASS. CONC. FILL
1200 TO 1800	950 - NO FINES MASS. CONC. FILL
1800 TO 2400	1200 - NO FINES MASS. CONC. FILL
2400 TO 2500	1450 - NO FINES MASS. CONC. FILL

NOTE :
INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.

MASONRY BLOCKWORK

M1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700.

M2 STRENGTH OF BRICKS, CLASS OF BLOCKS AND TYPE OF MORTAR SHALL BE AS LISTED BELOW :

MATERIAL:	CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH, F'_{uc}	MORTAR CLASSIFICATION:
CONCRETE BLOCKS	15 MPa	M3

M3 MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT

M4 ALL MASONRY WALLS AND PIERS SUPPORTING SLABS AND BEAMS SHALL HAVE A PRE-GREASED GALVANISED STEEL SLIP JOINT BETWEEN CONCRETE SOFFIT AND THE TOP OF OF THE MASONRY ELEMENT U.N.O.

M5 ALL MASONRY SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ALL CONTROL JOINTS IN THE CONCRETE.

M6 NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY A 12mm THICK CLOSED CELL POLYETHYLENE STRIP.

M7 NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.

M8 PROVIDE CLEANOUT HOLES AT BASE OF ALL WALLS. ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FOLLOWING APPROVAL FROM THE ENGINEER.

M9 CORE FILLING GROUT TO HAVE A CHARACTERISTIC STRENGTH OF 20 MPa, 10mm AGGREGATE, 230mm SLUMP. GROUT FILL ALL BLOCK CORES.

M10 PROVIDE 65mm COVER TO REINFORCING BARS FROM THE OUTSIDE FACE OF THE BLOCKWORK IF REINFORCEMENT IS NOT TO BE PLACED CENTRALLY.

M11 PROVIDE VERTICAL CONTROL JOINTS AT 10 METRE MAX CENTRES, AND AT 5 METRE MAXIMUM FROM CORNERS IN ALL BRICKWORK WALLS

M12 PROVIDE VERTICAL CONTROL JOINTS AT 8 METRE MAX CENTRES, AND AT 4 METRE MAXIMUM FROM CORNERS IN ALL CONCRETE BLOCK WALLS.

M13 BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL U.N.O. PROVIDE SUBSOIL DRAIN BEHIND WEEP HOLES.

M14 DO NOT CONSTRUCT MASONRY WALLS ON SUSPENDED CONCRETE UNTIL SLAB HAS BEEN STRIPPED AND DE-PROPPED.

M15 ALL CAVITY CONSTRUCTION TO HAVE GALVANISED OR STAINLESS STEEL WALL TIES INSTALLED AS PER AS 3700

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT B1 SIZE SHEET

FOR SSDA

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ARCHITECT: PACE ARCHITECTS

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AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

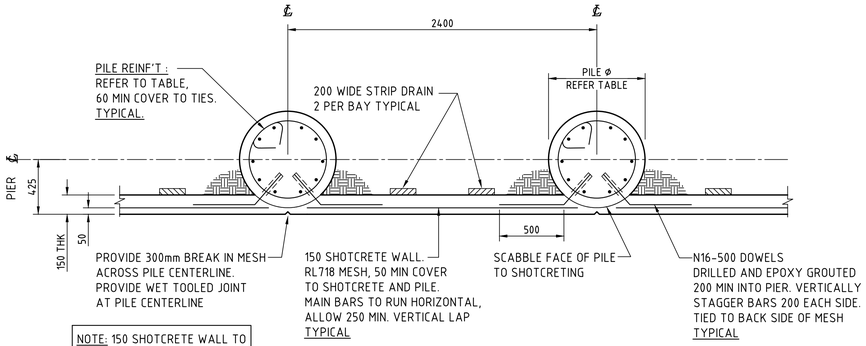
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA651

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DRAWING TITLE: RETAINING WALL DETAILS SHEET 2

DRAWING No: C013904.03-SSDA651 ISSUE: B



NOTE: 150 SHOTCRETE WALL TO BE CONSTRUCTED IN 1500 MAX. DROPS.

CONTIGUOUS PILE WALL
SCALE 1:20

CONTIGUOUS PILE WALL SCHEDULE

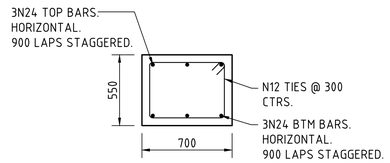
PILE TYPE	MAX. HEIGHT "H" (m)	PILE DIA. (mm)	PILE SPACING (mm)	SOCKET DEPTH "S" (mm)	PILE REINFORCEMENT	CLOSED TIES	CAPPING BEAM
-	-	-	-	-	-	-	-

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
PILE	80	20	SL	NIL	32
SHOT CRETE	230	10	SL	NIL	32
CAPPING	80	20	GP	NIL	32

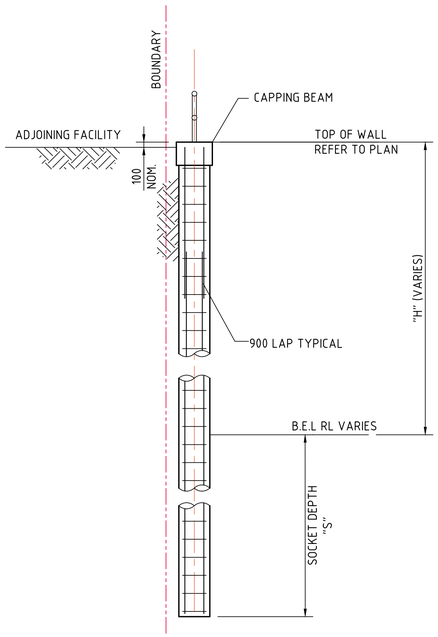
NOTE:
SOCKET DEPTH NOTED IS MINIMUM INTO CLASS IV ROCK OR HIGHER. THIS IS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER DURING INSTALLATION. IF SOFTER ROCK IS ENCOUNTERED, ENGINEER TO BE NOTIFIED IMMEDIATELY AND WILL ADVICE OF ADJUSTED SOCKET DEPTH.

NOTE:
THE DETAILS ON THIS DRAWING ARE INDICATIVE ONLY AND ARE SUBJECT TO DETAIL DESIGN.

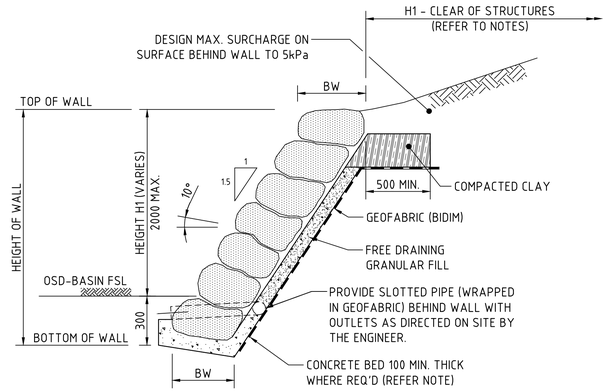
NOTE :
INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



DETAIL OF 700x550 CAPPING BEAM
SCALE 1:20



CONTIGUOUS PILE WALL TYPICAL SECTION
SCALE 1:50



BOULDER RETAINING WALL
SCALE 1:20

BOULDER RETAINING WALL NOTES

WALL DIMENSIONS	
HEIGHT H1	BW
500	500
1000	700
1500	800
2000	900

MINIMUM BEARING CAPACITY OF FOUNDATION TO BE 100kPa ASSUMING THE FOLLOWING:
- CLAY FOUNDATION Cu=50kPa, ϕ=0

SLIDING STABILITY IS BASED ON THE FOLLOWING
- FRICTION ANGLE OF BOULDER WALL : NOT LESS THAN 40°
- EFFECTIVE FRICTION ANGLE OF SOIL SUBGRADE: NOT LESS THAN 30° FOR SOIL OR 35° FOR ROCK

SOIL AND ROCK DESIGN PARAMETERS SHALL BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BOULDERS OR CONCRETE BED.

BOULDERS TO BE A NOMINAL 750mm DIA. (400mm DIA. UP TO 800mm DIA.) PLACED ON THEIR BROADEST BASE. BOULDERS TO BE PLACED IN AN INTERLOCKING ARRANGEMENT ON THE CONTACT SURFACES DIPPING TOWARDS BACK OF THE WALL AT 10° AND SHALL BE INSPECTED BY THE ENGINEER DURING CONSTRUCTION

DENSITY OF INDIVIDUAL BOULDERS SHALL BE MINIMUM 2.5 TONNES/m

FOR WALLS ABOVE 1000mm IN HEIGHT, THE FIRST LAYER OF BOULDERS ARE TO SET IN A BED OF N15 CONCRETE AND THE JOINTS BETWEEN SHALL BE FILLED WITH CONCRETE TO A LEVEL EQUAL TO THE SURFACE LEVEL OF THE TOE OF THE WALL.

NO STRUCTURE TO BE BUILT WITHIN H1 FROM THE BACK OF THE TOP OF THE WALL (WHERE H1=HEIGHT OF WALL), UNLESS THE STRUCTURE IS FOUNDED ON ROCK WITH SBV>150kPA

CONSTRUCTION METHODS AND SEQUENCE TO ENSURE THAT DESIGN MAX. SURCHARGE OF 5kPa IS NOT EXCEEDED.

CONSTRUCTION TO BE IN ACCORDANCE WITH AS 4678:2002

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

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ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

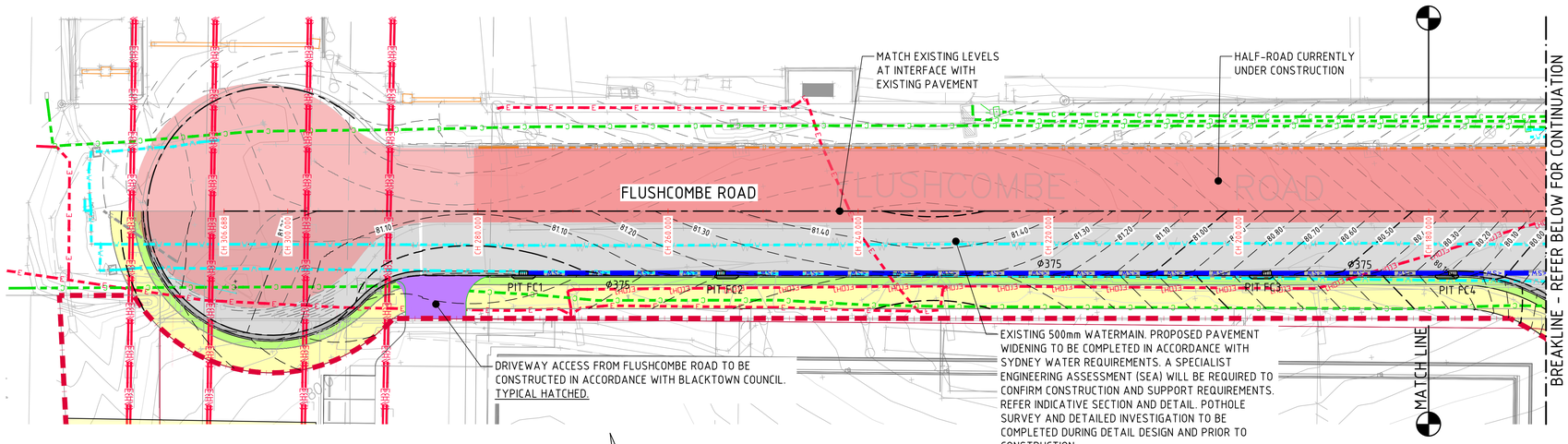
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LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA652

CONSULT AUSTRALIA

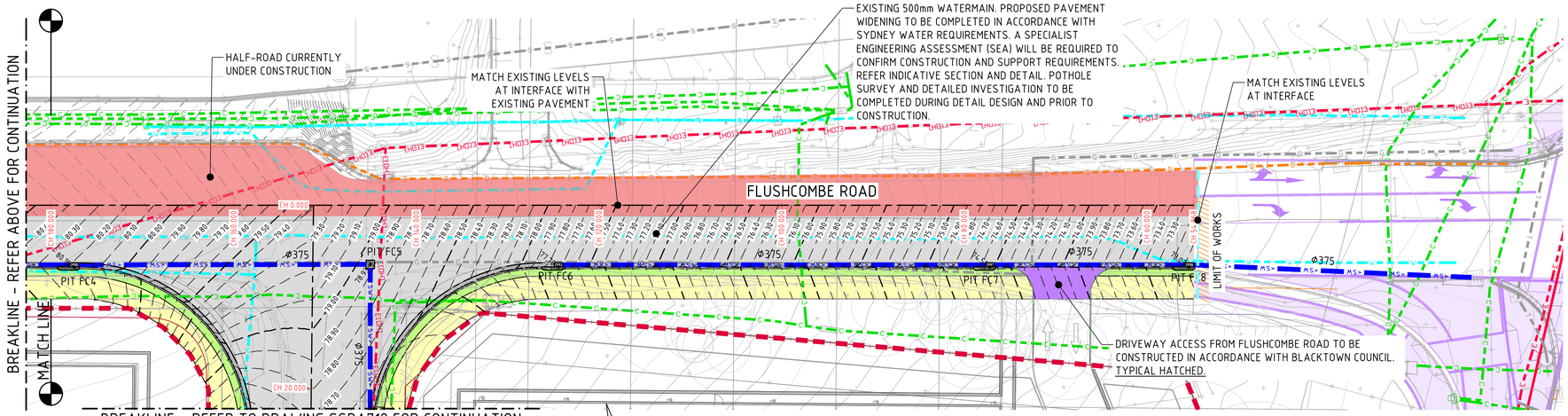
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DRAWING TITLE
RETAINING WALL DETAILS
SHEET 3

DRAWING No C013904.03-SSDA652
ISSUE B



FLUSHCOMBE ROAD GENERAL ARRANGEMENT & FINISHED LEVELS PLAN
SCALE 1:250



FLUSHCOMBE ROAD GENERAL ARRANGEMENT & FINISHED LEVELS PLAN
SCALE 1:250

LEGEND:

- EXISTING ROAD
- NEW ASPHALT ROAD PAVEMENT
- FOOTPATH
- NEW VEHICLE CROSSING
- NEW KERB INLET PIT
- EXISTING KERB INLET PIT
- NEW STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING WATER PIPE
- EXISTING ELEC. CABLE (OVERHEAD)
- EXISTING ELEC. CABLE (U/G)
- EXISTING ELEC. CABLE (HIGH VOLTAGE)
- EXISTING COMMUNICATIONS CABLE

NOTE:

REFER TO C013904.03-SSDA721 FOR LONG-SECTIONS
REFER TO C013904.03-SSDA750 FOR TYPICAL SECTIONS
REFER TO C013904.03-SSDA755 FOR TYPICAL DETAILS

2m 0 5 10 15 20 25m
SCALE 1:250 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	E
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	D
REVISED DETAIL SURVEY	29.05.24	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE

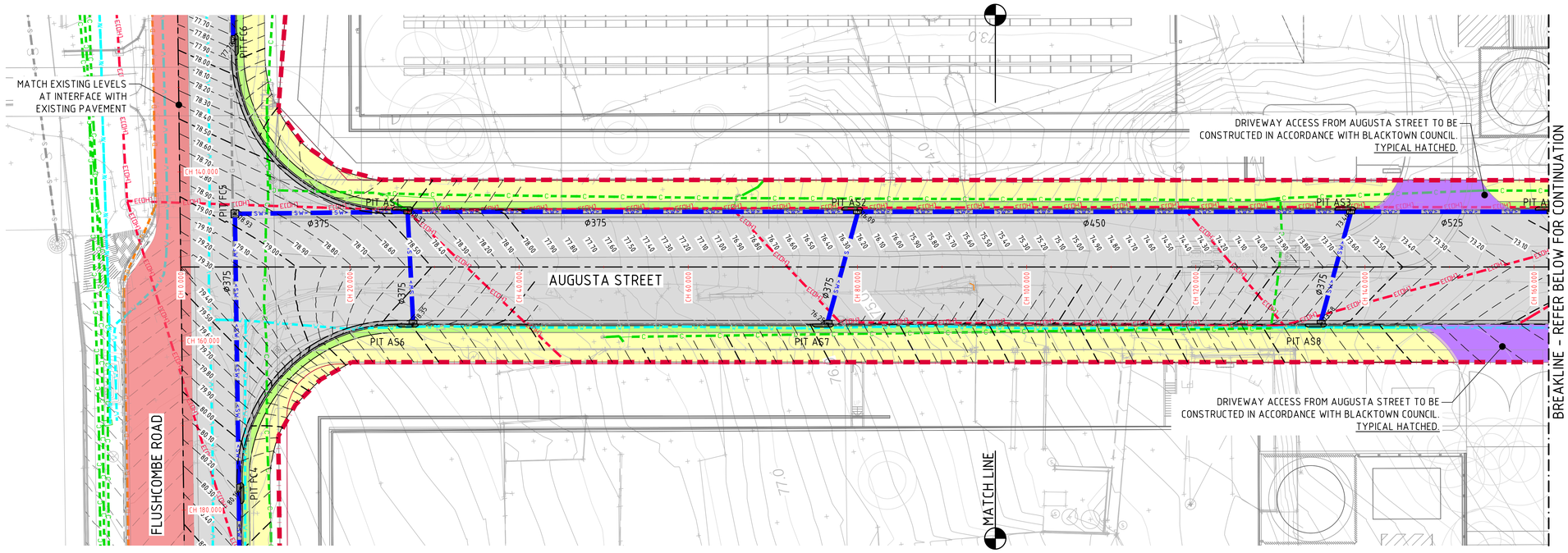
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA 711

CONSULT AUSTRALIA

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e: mail@costinroe.com.au w: costinroe.com.au
COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: ROADWORKS CIVIL WORKS PLAN SHEET 1
DRAWING No: C013904.03-SSDA711
ISSUE: E



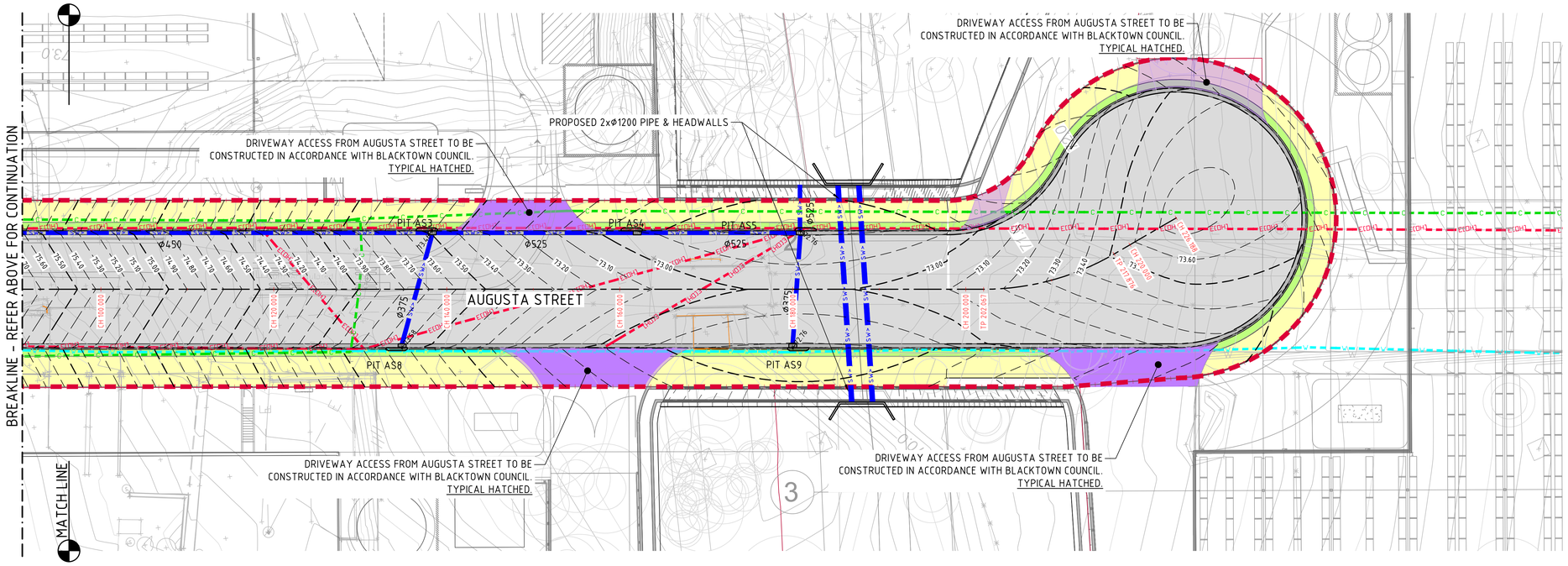
AUGUSTA STREET GENERAL ARRANGEMENT & FINISHED LEVELS PLAN
SCALE 1:250

LEGEND:

- EXISTING ROAD
- NEW ASPHALT ROAD PAVEMENT
- FOOTPATH
- NEW VEHICLE CROSSING
- NEW KERB INLET PIT
- EXISTING KERB INLET PIT
- NEW STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING WATER PIPE
- EXISTING ELEC. CABLE (OVERHEAD)
- EXISTING ELEC. CABLE (U/G)
- EXISTING ELEC. CABLE (HIGH VOLTAGE)
- EXISTING COMMUNICATIONS CABLE

NOTE:

REFER TO C013904.03-SSDA721 FOR LONG-SECTIONS
REFER TO C013904.03-SSDA750 FOR TYPICAL SECTIONS
REFER TO C013904.03-SSDA755 FOR TYPICAL DETAILS



AUGUSTA STREET GENERAL ARRANGEMENT & FINISHED LEVELS PLAN
SCALE 1:250

2m 0 5 10 15 20 25m
SCALE 1:250 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	F
REVISED DETAILED SURVEY	29.05.24	E
REVISED ARCHITECTURAL	08.03.24	D
ISSUED FOR INFORMATION	11.09.23	C
ISSUED FOR INFORMATION	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	G

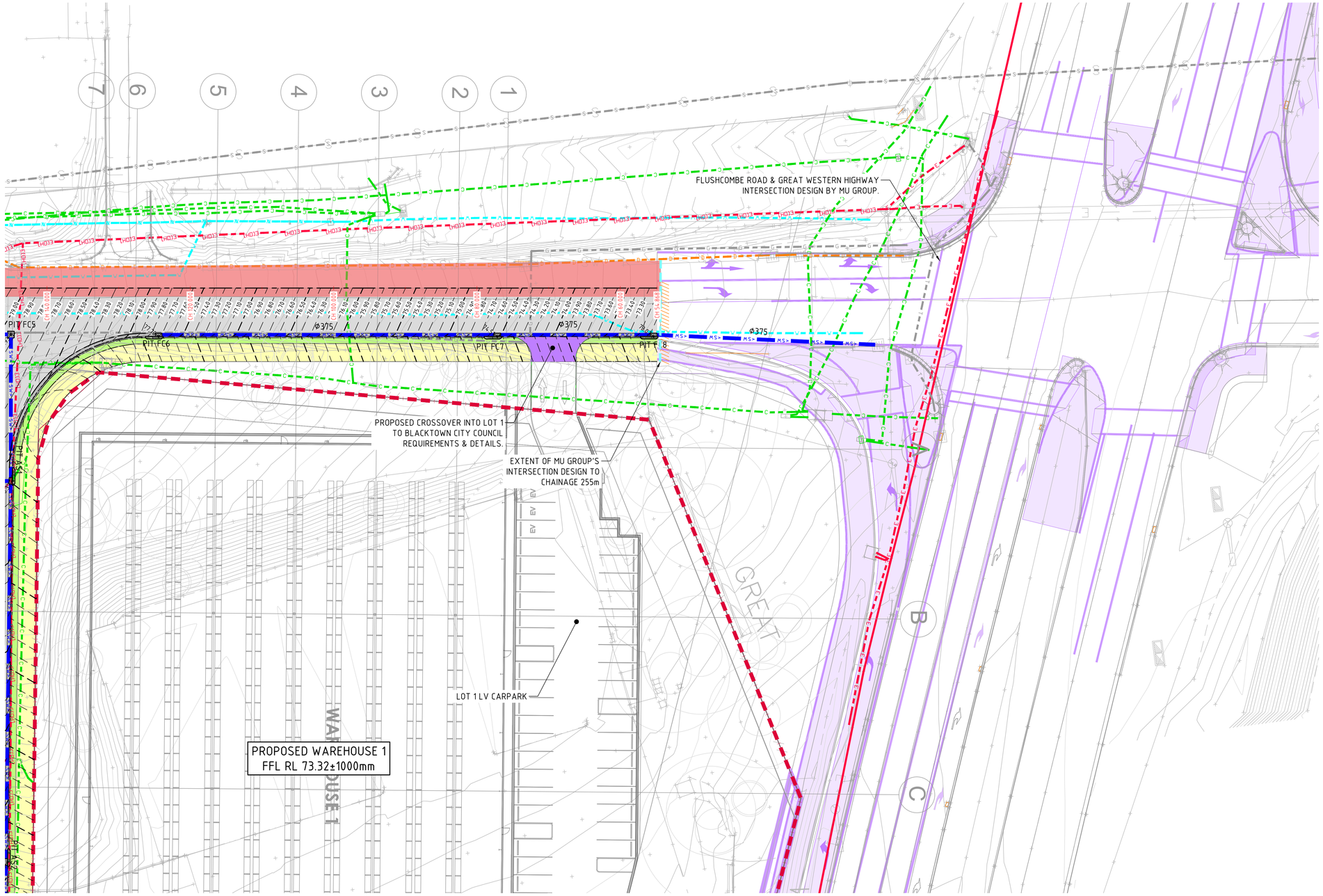
ARCHITECT: PACE ARCHITECTS
CLIENT: LOGOS
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA 712

CONSULT AUSTRALIA

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DRAWING TITLE: ROADWORKS CIVIL WORKS PLAN SHEET 2
DRAWING No: C013904.03-SSDA712
ISSUE: G



LEGEND:

- EXISTING ROAD
- NEW ASPHALT ROAD PAVEMENT
- FOOTPATH
- NEW VEHICLE CROSSING
- NEW KERB INLET PIT
- EXISTING KERB INLET PIT
- NEW STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING WATER PIPE
- EXISTING ELEC. CABLE (OVERHEAD)
- EXISTING ELEC. CABLE (U/G)
- EXISTING ELEC. CABLE (HIGH VOLTAGE)
- EXISTING COMMUNICATIONS CABLE
- DENOTES INTERSECTION BY MU GROUP

NOTE:

REFER TO C013904.03-SSDA721 FOR LONG-SECTIONS
REFER TO C013904.03-SSDA750 FOR TYPICAL SECTIONS
REFER TO C013904.03-SSDA755 FOR TYPICAL DETAILS

2m 0 5 10 15 20 25m
SCALE 1:250 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	05.08.24	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
REVISED DETAIL SURVEY	29.05.24	B
ISSUED FOR INFORMATION	09.05.24	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA 713

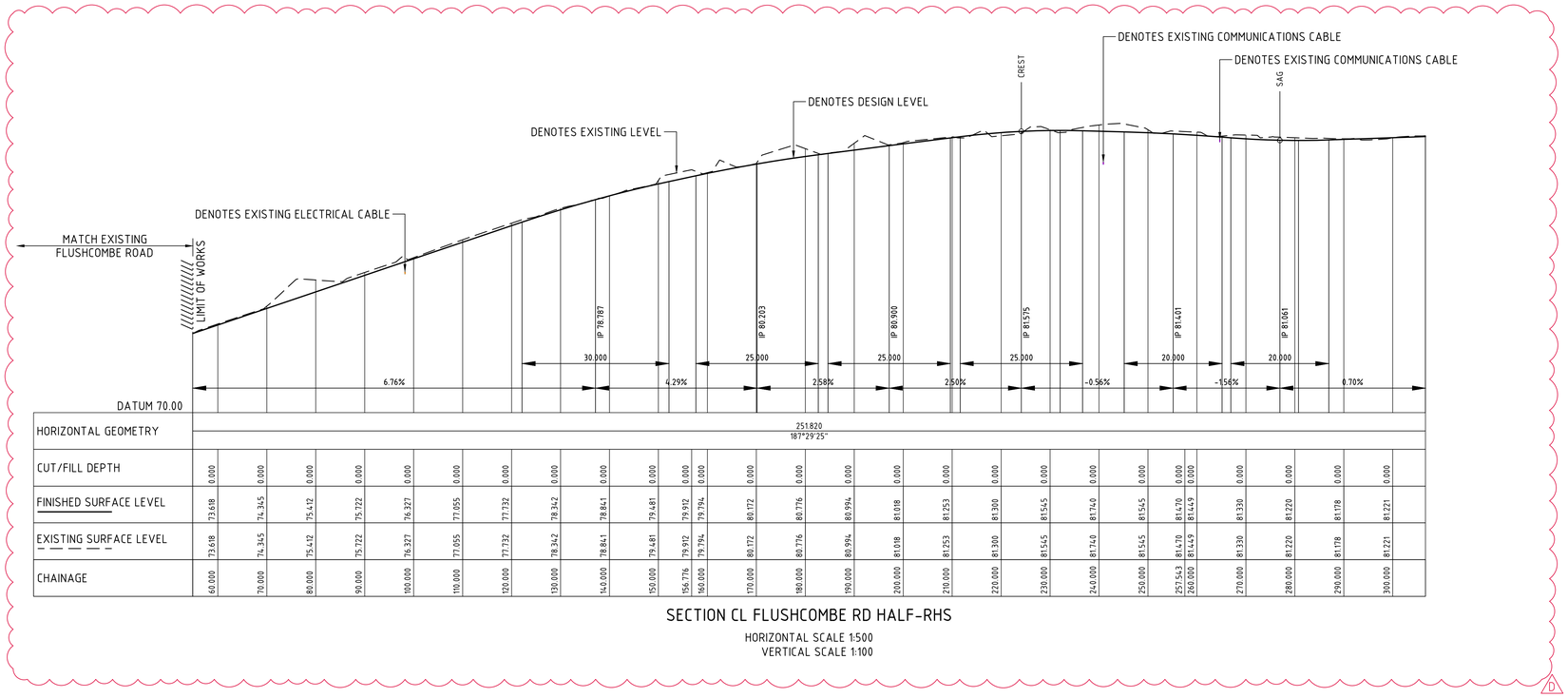
CONSULT AUSTRALIA

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CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: ROADWORKS CIVIL WORKS PLAN SHEET 3

DRAWING No: C013904.03-SSDA713

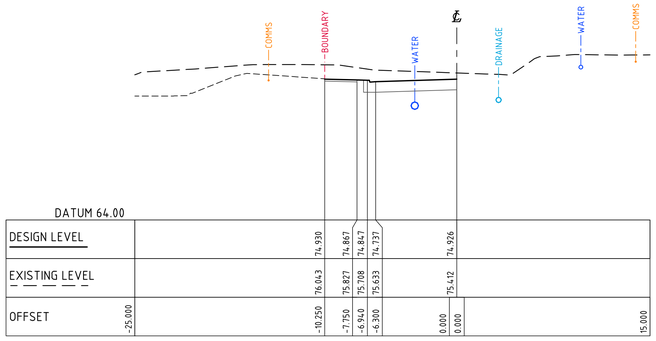
ISSUE: D


DENOTES EXISTING COMMUNICATIONS CABLE
DENOTES EXISTING COMMUNICATIONS CABLE
CREST
SAG
DENOTES DESIGN LEVEL
DENOTES EXISTING LEVEL
DENOTES EXISTING ELECTRICAL CABLE
MATCH EXISTING FLUSHCOMBE ROAD
LIMIT OF WORKS
IP 78.787
IP 80.203
IP 80.900
IP 81.575
IP 81.401
IP 81.061
30.000
25.000
25.000
25.000
20.000
20.000
6.76%
4.29%
2.58%
2.50%
-0.56%
-1.56%
0.70%
DATUM 70.00

| | | |

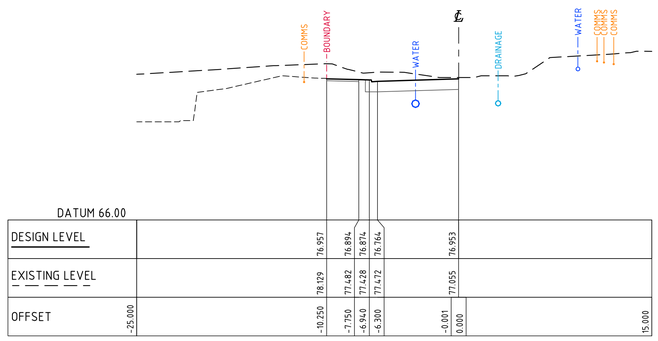
LEGEND:

- DENOTES DESIGN ROAD PAVEMENT SURFACE PROFILE
- DENOTES SITE GRADING PROFILE
- DENOTES EXISTING PROFILE
- DENOTES EXISTING DRAINAGE SERVICES
- DENOTES EXISTING COMMUNICATIONS CABLE/ PIPE SERVICES
- DENOTES EXISTING WATER SERVICES
- DENOTES EXISTING ELECTRICAL SERVICES



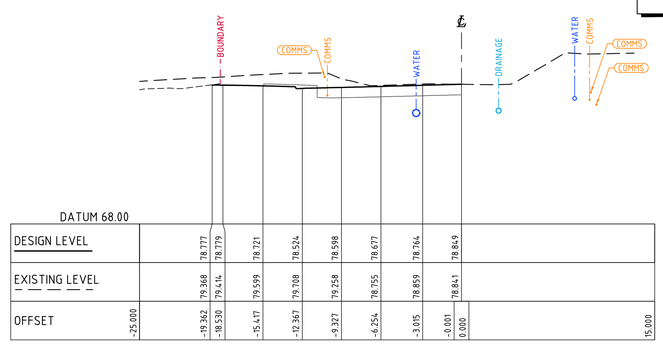
DATUM 64.00										
DESIGN LEVEL		74.930	74.867	74.847	74.731	74.926				
EXISTING LEVEL		76.043	75.827	75.708	75.633	75.412				
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	0.000	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 80.000



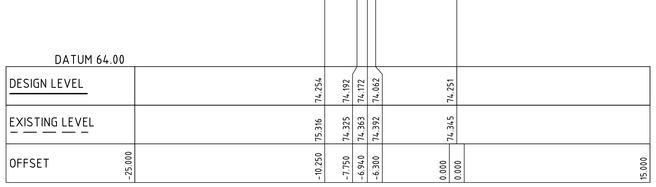
DATUM 66.00										
DESIGN LEVEL		76.957	76.894	76.874	76.784	76.953				
EXISTING LEVEL		78.129	77.482	77.428	77.472	77.055				
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.001	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 110.000



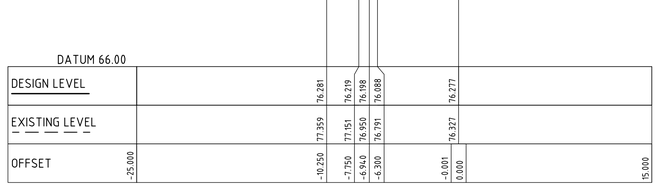
DATUM 68.00										
DESIGN LEVEL		78.777	78.779	78.721	78.524	78.598	78.677	78.764	78.849	
EXISTING LEVEL		79.368	79.414	79.599	79.708	79.258	78.755	78.859	78.841	
OFFSET	-25.000	-19.362	-18.530	-15.417	-12.367	-9.327	-6.254	-3.015	-0.001	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 140.000



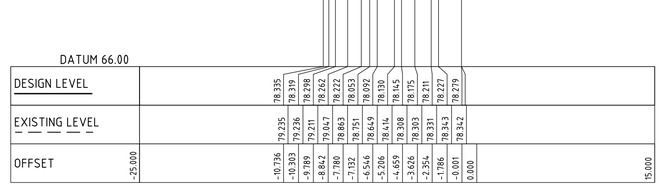
DATUM 64.00										
DESIGN LEVEL		74.254	74.192	74.172	74.062	74.251				
EXISTING LEVEL		75.316	74.325	74.363	74.392	74.345				
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	0.000	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 70.000



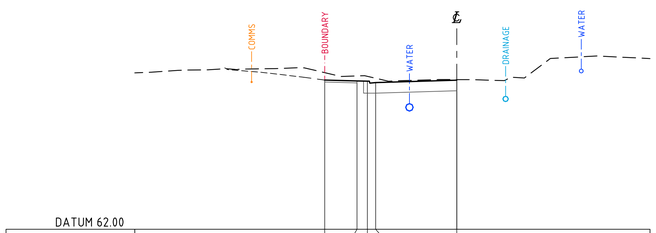
DATUM 66.00										
DESIGN LEVEL		76.281	76.219	76.198	76.088	76.277				
EXISTING LEVEL		77.359	77.151	76.950	76.791	76.327				
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.001	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 100.000



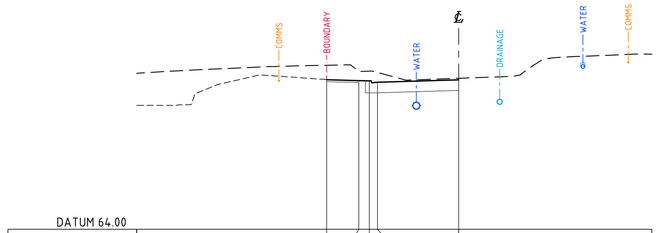
DATUM 66.00										
DESIGN LEVEL		78.335	78.319	78.298	78.262	78.222	78.053	78.092	78.126	78.145	78.175	78.211	78.227	78.279		
EXISTING LEVEL		79.235	79.226	79.211	79.047	78.869	78.751	78.649	78.414	78.308	78.303	78.331	78.343	78.342		
OFFSET	-25.000	-10.736	-10.303	-9.789	-8.842	-7.780	-7.132	-6.546	-5.206	-4.659	-3.626	-2.554	-1.786	-0.001	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 130.000



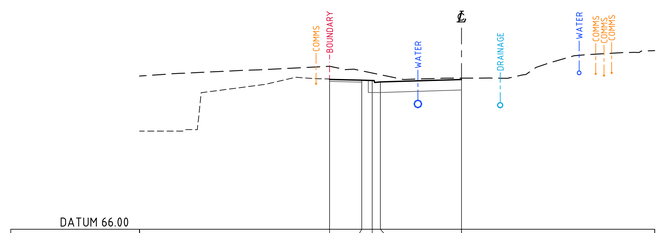
DATUM 62.00									
DESIGN LEVEL		73.579	73.516	73.496	73.386	73.575			
EXISTING LEVEL		74.156	73.903	73.874	73.723	73.618			
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 60.000



DATUM 64.00									
DESIGN LEVEL		75.606	75.543	75.523	75.413	75.602			
EXISTING LEVEL		76.732	76.260	76.278	76.171	75.722			
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.001	0.000	15.000	

CL FLUSHCOMBE RD HALF-RHS
CH 90.000



DATUM 66.00									
DESIGN LEVEL		77.632	77.570	77.550	77.440	77.629			
EXISTING LEVEL		78.659	78.302	78.135	78.002	77.732			
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.001	0.000	15.000	

CL FLUSHCOMBE RD HALF-RHS
CH 120.000

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

FOR SSDA

ISSUE	DATE	AMENDMENTS
B	02.08.24	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION
A	08.03.24	ISSUED FOR INFORMATION

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA730

CONSULT AUSTRALIA

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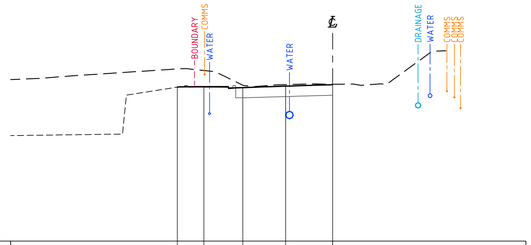
DRAWING TITLE: ROADWORKS CROSS SECTIONS FLUSHCOMBE ROAD SHEET 1

DRAWING No: C013904.03-SSDA730

ISSUE: B

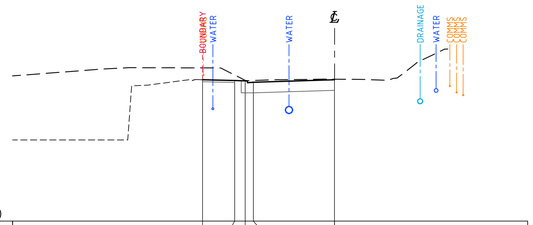
LEGEND:

- DENOTES DESIGN ROAD PAVEMENT SURFACE PROFILE
- DENOTES SITE GRADING PROFILE
- DENOTES EXISTING PROFILE
- DENOTES EXISTING DRAINAGE SERVICES
- DENOTES EXISTING COMMUNICATIONS CABLE/ PIPE SERVICES
- DENOTES EXISTING WATER SERVICES
- DENOTES EXISTING ELECTRICAL SERVICES



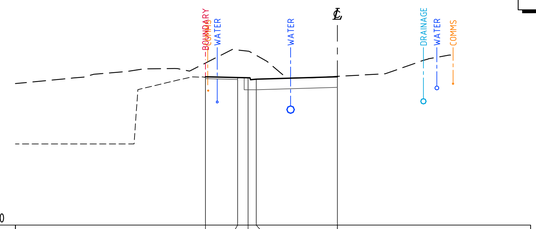
DATUM 68.00								
DESIGN LEVEL		79.954	79.989	79.917	80.029	80.145		
EXISTING LEVEL		81.364	81.247	80.103	80.168	80.172		
OFFSET	-25.000	-12.063	-10.002	-6.973	-3.649	-0.002	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 170.000



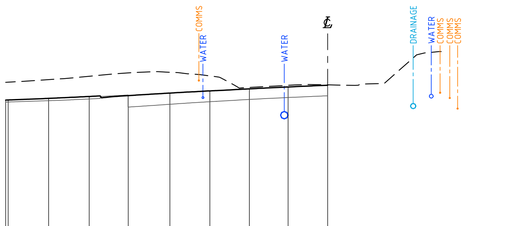
DATUM 70.00								
DESIGN LEVEL		80.974	80.911	80.891	80.781	80.970		
EXISTING LEVEL		81.895	81.339	80.929	80.915	81.018		
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.003	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 200.000



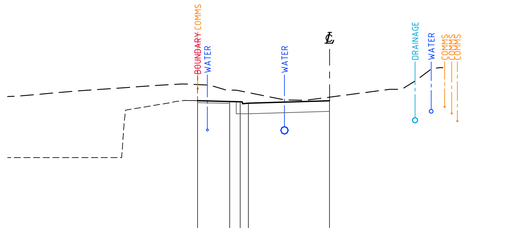
DATUM 70.00								
DESIGN LEVEL		81.519	81.456	81.436	81.326	81.515		
EXISTING LEVEL		82.581	83.595	83.504	83.179	81.545		
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.003	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 230.000



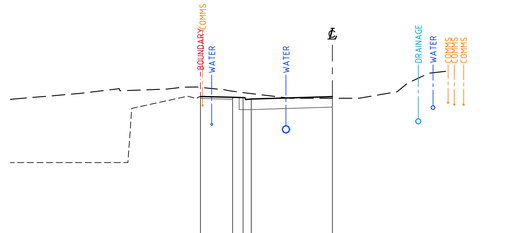
DATUM 68.00										
DESIGN LEVEL	78.611	78.618	78.746	78.892	78.960	79.156	79.324	79.484	79.632	79.766
EXISTING LEVEL	79.991	80.003	80.199	80.469	80.722	80.773	80.491	79.594	79.757	79.794
OFFSET	-25.000	-23.806	-21.644	-18.519	-15.487	-12.250	-9.148	-6.080	-3.073	-0.002	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 160.000



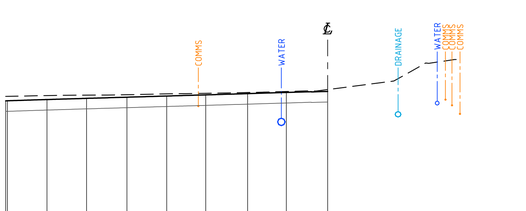
DATUM 70.00										
DESIGN LEVEL	80.719	80.656	80.656	80.636	80.526	80.715				
EXISTING LEVEL	81.974	81.550	81.478	81.348	80.993	80.993				
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.002	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 190.000



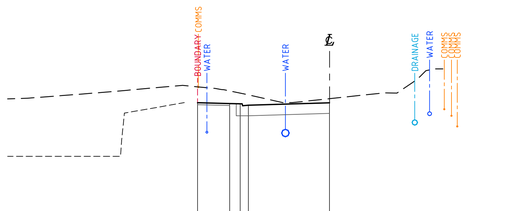
DATUM 70.00										
DESIGN LEVEL	81.432	81.370	81.350	81.240	81.429					
EXISTING LEVEL	82.149	81.848	81.739	81.658	81.380					
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.003	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 220.000



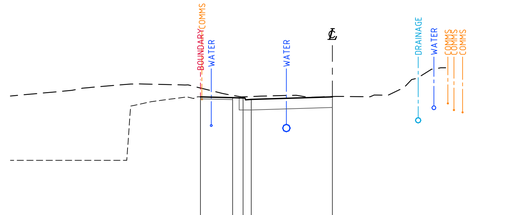
DATUM 68.00										
DESIGN LEVEL	78.609	78.613	78.708	78.798	78.890	78.980	79.070	79.166	79.256	79.337
EXISTING LEVEL	78.954	78.957	79.016	79.049	79.079	79.149	79.192	79.251	79.332	79.481
OFFSET	-25.000	-23.809	-21.790	-18.721	-15.584	-12.498	-9.444	-6.213	-3.209	-0.002	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 150.000



DATUM 70.00										
DESIGN LEVEL	80.459	80.396	80.396	80.376	80.266	80.455				
EXISTING LEVEL	81.695	81.376	81.207	81.073	80.266	80.775				
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.002	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 180.000



DATUM 70.00										
DESIGN LEVEL	81.225	81.163	81.142	81.032	81.221					
EXISTING LEVEL	81.916	81.345	81.226	81.250	81.253					
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.003	0.000	15.000		

CL FLUSHCOMBE RD HALF-RHS
CH 210.000

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

AMENDMENTS DATE ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA731

CONSULT AUSTRALIA

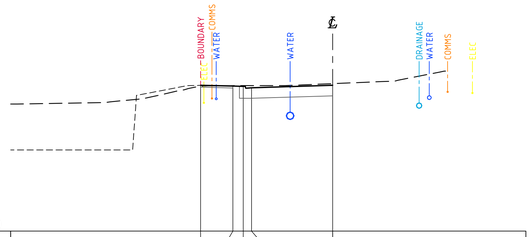
Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9251 7699 f: +61 2 9241 3731
e: mail@costinroe.com.au w: costinroe.com.au
COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
ROADWORKS CROSS SECTIONS
FLUSHCOMBE ROAD
SHEET 2

DRAWING No C013904.03-SSDA731
ISSUE B

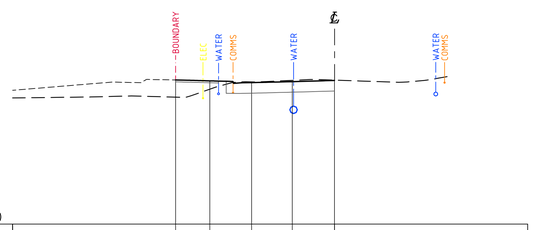
LEGEND:

- DENOTES DESIGN ROAD PAVEMENT SURFACE PROFILE
- DENOTES SITE GRADING PROFILE
- DENOTES EXISTING PROFILE
- DENOTES EXISTING DRAINAGE SERVICES
- DENOTES EXISTING COMMUNICATIONS CABLE/ PIPE SERVICES
- DENOTES EXISTING WATER SERVICES
- DENOTES EXISTING ELECTRICAL SERVICES



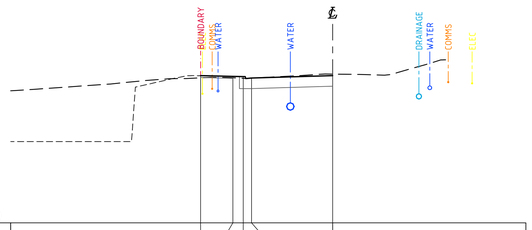
DATUM 70.00								
DESIGN LEVEL		81.322	81.260	81.240	81.190	81.319		
EXISTING LEVEL		81.268	81.291	81.292	81.293	81.449		
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.004	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 260.000



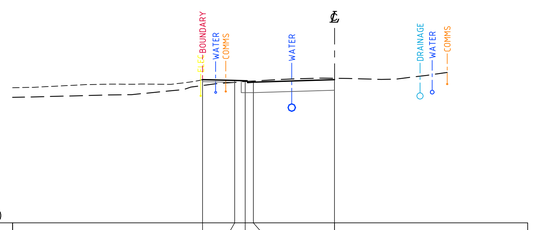
DATUM 70.00								
DESIGN LEVEL		81.191	81.121	80.984	81.062	81.152		
EXISTING LEVEL		79.857	80.474	81.036	81.157	81.178		
OFFSET	-25.000	-12.343	-9.680	-6.443	-3.285	-0.004	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 290.000



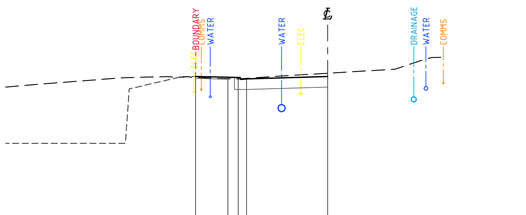
DATUM 70.00								
DESIGN LEVEL		81.428	81.365	81.345	81.235	81.424		
EXISTING LEVEL		81.251	81.255	81.272	81.236	81.545		
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.003	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 250.000



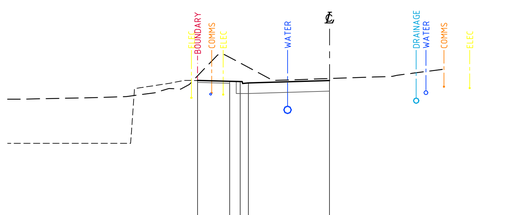
DATUM 70.00								
DESIGN LEVEL		81.113	81.051	81.031	80.921	81.109		
EXISTING LEVEL		80.656	80.896	80.973	81.002	81.220		
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.004	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 280.000



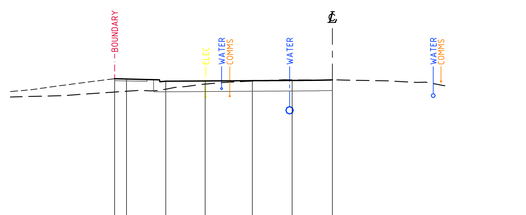
DATUM 70.00								
DESIGN LEVEL		81.490	81.427	81.407	81.297	81.486		
EXISTING LEVEL		81.419	81.311	81.301	81.341	81.740		
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.003	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 240.000



DATUM 70.00								
DESIGN LEVEL		81.178	81.116	81.096	80.986	81.174		
EXISTING LEVEL		81.534	82.911	82.539	82.197	81.330		
OFFSET	-25.000	-10.250	-7.750	-6.940	-6.300	-0.004	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 270.000



DATUM 70.00								
DESIGN LEVEL		81.319	81.295	81.119	81.139	81.162	81.181	81.222
EXISTING LEVEL		80.280	80.344	80.502	80.900	81.136	81.223	81.221
OFFSET	-25.000	-16.914	-15.985	-12.939	-9.884	-6.219	-3.126	-0.004	0.000	15.000

CL FLUSHCOMBE RD HALF-RHS
CH 300.000

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA732

CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9251 7699 f: +61 2 9241 3731
e: mail@costinroe.com.au w: costinroe.com.au

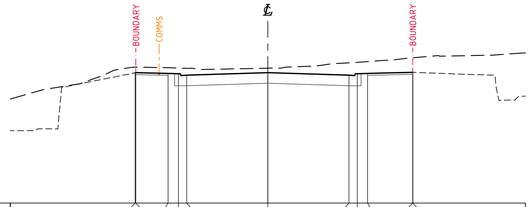
COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
ROADWORKS CROSS SECTIONS
FLUSHCOMBE ROAD
SHEET 3

DRAWING No: C013904.03-SSDA732
ISSUE: B

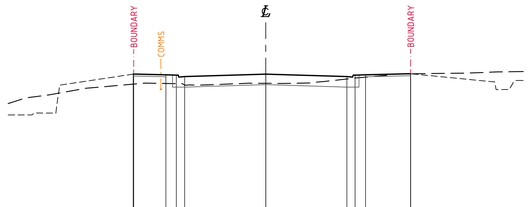
LEGEND:

- DENOTES DESIGN ROAD PAVEMENT SURFACE PROFILE
- DENOTES SITE GRADING PROFILE
- DENOTES EXISTING PROFILE
- DENOTES EXISTING DRAINAGE SERVICES
- DENOTES EXISTING COMMUNICATIONS CABLE/ PIPE SERVICES



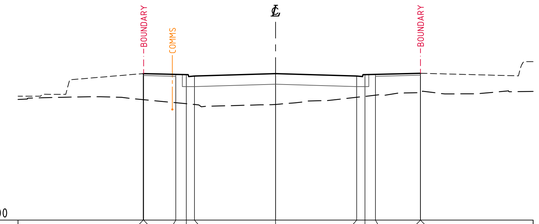
DATUM 68.00														
DESIGN LEVEL			78.123	78.127	78.065	78.044	77.934	78.123		77.934	78.044	78.065	78.152	78.152
EXISTING LEVEL			78.560	78.559	78.506	78.483	78.466	78.473		78.885	78.921	78.983	79.285	79.286
OFFSET	-20.000		-10.306	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 40.000



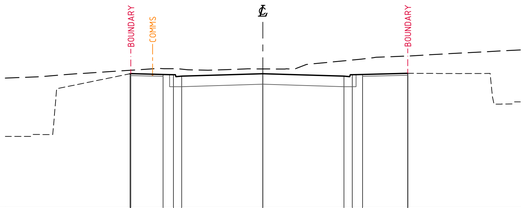
DATUM 66.00														
DESIGN LEVEL			76.791	76.795	76.732	76.712	76.602	76.791		76.602	76.712	76.732	76.820	76.820
EXISTING LEVEL			76.012	76.016	76.063	76.050	75.937	76.076		76.412	76.484	76.555	76.813	76.813
OFFSET	-20.000		-10.295	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 70.000



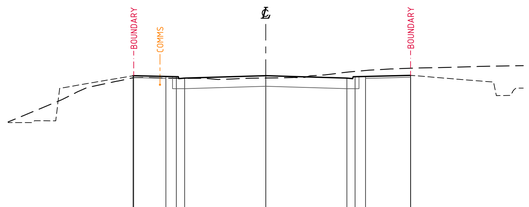
DATUM 64.00														
DESIGN LEVEL			75.373	75.375	75.313	75.293	75.183	75.372		75.183	75.293	75.313	75.400	75.400
EXISTING LEVEL			73.349	73.345	73.113	73.037	72.978	72.979		73.534	73.606	73.697	73.890	73.890
OFFSET	-20.000		-10.284	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 100.000



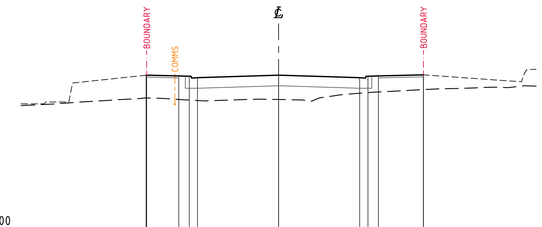
DATUM 68.00														
DESIGN LEVEL			78.488	78.492	78.430	78.409	78.299	78.488		78.299	78.409	78.430	78.517	78.517
EXISTING LEVEL			78.751	78.755	78.882	78.871	78.838	78.857		79.488	79.550	79.632	79.857	79.857
OFFSET	-20.000		-10.310	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 30.000



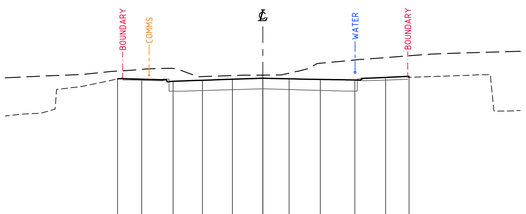
DATUM 66.00														
DESIGN LEVEL			77.264	77.268	77.205	77.185	77.075	77.264		77.075	77.185	77.205	77.293	77.293
EXISTING LEVEL			77.100	77.111	77.068	77.066	77.064	77.084		77.535	77.596	77.667	77.843	77.843
OFFSET	-20.000		-10.299	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 60.000



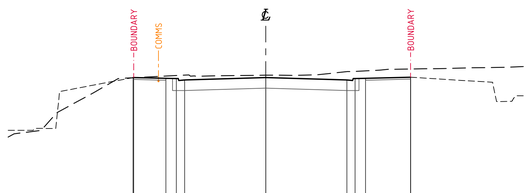
DATUM 64.00														
DESIGN LEVEL			75.846	75.848	75.786	75.766	75.656	75.845		75.656	75.766	75.786	75.873	75.873
EXISTING LEVEL			74.079	74.081	73.963	73.913	73.880	73.960		74.447	74.494	74.563	74.726	74.726
OFFSET	-20.000		-10.288	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 90.000



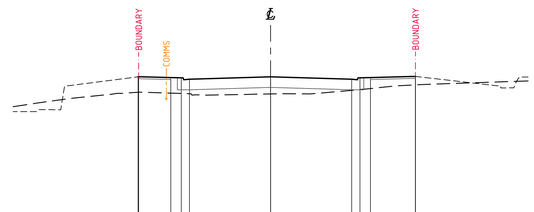
DATUM 68.00														
DESIGN LEVEL			78.765	78.733	78.572	78.652	78.732	78.810	78.763	78.716	78.678	78.871	78.958	
EXISTING LEVEL			79.364	79.497	79.573	78.934	79.016	79.052	79.205	79.973	80.226	80.410	80.552	
OFFSET	-20.000		-11.277	-9.407	-6.967	-4.695	-2.365	0.000	2.039	4.460	7.148	9.534	11.358	20.000

CL AUGUSTA ST
CH 20.000



DATUM 66.00														
DESIGN LEVEL			77.715	77.719	77.657	77.636	77.526	77.715		77.526	77.636	77.657	77.744	77.744
EXISTING LEVEL			77.704	77.707	77.834	77.875	77.908	77.898		78.175	78.194	78.235	78.377	78.377
OFFSET	-20.000		-10.303	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 50.000



DATUM 64.00														
DESIGN LEVEL			76.318	76.321	76.259	76.239	76.129	76.318		76.129	76.239	76.259	76.346	76.346
EXISTING LEVEL			75.121	75.124	75.551	75.024	75.003	74.986		75.267	75.325	75.402	75.687	75.687
OFFSET	-20.000		-10.292	-10.250	-7.750	-6.940	-6.300	0.000		6.300	6.940	7.750	11.250	11.251	20.000

CL AUGUSTA ST
CH 80.000

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

AMENDMENTS DATE ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA733

CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9251 7699 f: +61 2 9241 3731
e: mail@costinroe.com.au w: costinroe.com.au

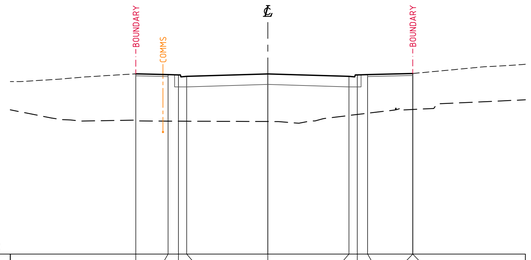
CRC COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
ROADWORKS CROSS SECTIONS
AUGUSTA STREET
SHEET 1

DRAWING No C013904.03-SSDA733
ISSUE B

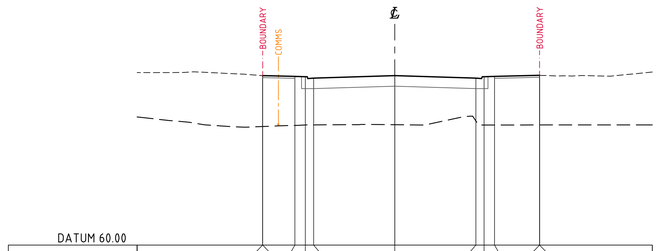
LEGEND:

- DENOTES DESIGN ROAD PAVEMENT SURFACE PROFILE
- DENOTES SITE GRADING PROFILE
- DENOTES EXISTING PROFILE
- DENOTES EXISTING DRAINAGE SERVICES
- DENOTES EXISTING COMMUNICATIONS CABLE/ PIPE SERVICES



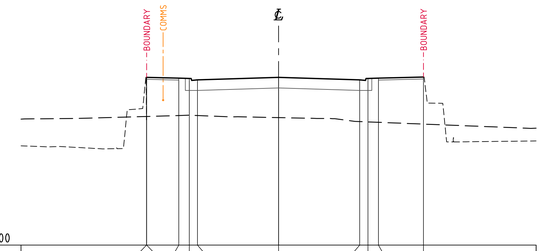
DATUM 60.00																					
DESIGN LEVEL			73.995	73.932	73.912	73.802		73.991			73.802	73.912	73.932		74.020	74.020					
EXISTING LEVEL			70.373	70.323	70.319	70.317		70.292			70.761	70.839	70.937		71.225	71.225					
OFFSET	-20.000		-10.250	-7.750	-6.940	-6.300		0.000			6.300	6.940	7.750		11.250	11.250					20.000

CL AUGUSTA ST
CH 130.000



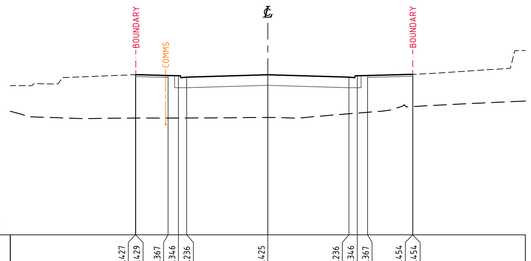
DATUM 60.00																					
DESIGN LEVEL			73.160	73.159	73.096	73.076		72.966			73.155	73.076	73.096		73.184	73.184					
EXISTING LEVEL			69.206	69.207	69.288	69.326		69.333			69.345	69.353	69.324		69.327	69.327					
OFFSET	-20.000		-10.263	-10.250	-7.750	-6.940		-6.300			0.000	6.300	6.940		7.750	11.250					20.000

CL AUGUSTA ST
CH 160.000



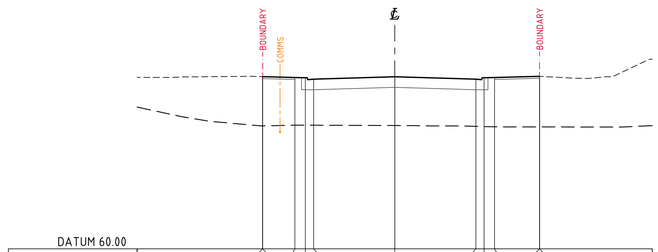
DATUM 60.00																					
DESIGN LEVEL			73.022	73.022	72.959	72.939		73.018			72.829	72.959	73.047								
EXISTING LEVEL			69.984	69.984	70.057	70.083		69.896			69.590	69.564	69.532		69.394						
OFFSET	-20.000		-10.252	-10.250	-7.750	-6.940		-6.300			0.000	6.300	6.940		7.750	11.250					20.000

CL AUGUSTA ST
CH 190.000



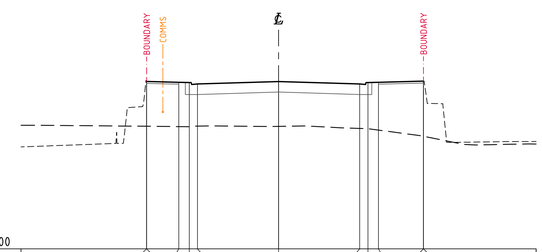
DATUM 62.00																					
DESIGN LEVEL			74.427	74.429	74.367	74.346	74.236	74.425			74.236	74.346	74.367		74.454	74.454					
EXISTING LEVEL			71.061	71.061	71.062	71.065	71.067	71.106			71.395	71.445	71.509		71.955	71.955					
OFFSET	-20.000		-10.277	-10.250	-7.750	-6.940	-6.300	0.000			6.300	6.940	7.750		11.250	11.250					20.000

CL AUGUSTA ST
CH 120.000



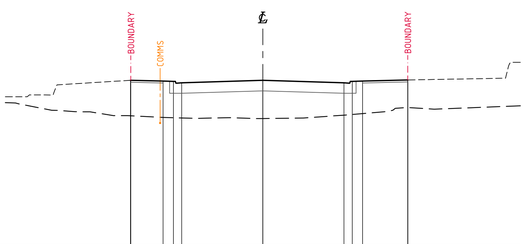
DATUM 60.00																					
DESIGN LEVEL			73.362	73.360	73.297	73.277	73.167	73.356			73.167	73.277	73.297		73.385	73.385					
EXISTING LEVEL			69.542	69.542	69.593	69.594	69.594	69.567			69.584	69.488	69.469		69.460	69.460					
OFFSET	-20.000		-10.266	-10.250	-7.750	-6.940	-6.300	0.000			6.300	6.940	7.750		11.250	11.250					20.000

CL AUGUSTA ST
CH 150.000



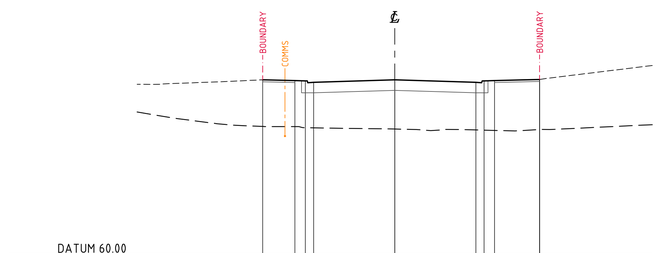
DATUM 60.00																					
DESIGN LEVEL			72.990	72.990	72.927	72.907	72.797	72.986			72.797	72.907	72.927		73.015	73.015					
EXISTING LEVEL			69.510	69.510	69.486	69.479	69.522	69.505			69.345	69.321	69.274		68.738	68.738					
OFFSET	-20.000		-10.255	-10.250	-7.750	-6.940	-6.300	0.000			6.300	6.940	7.750		11.250	11.250					20.000

CL AUGUSTA ST
CH 180.000



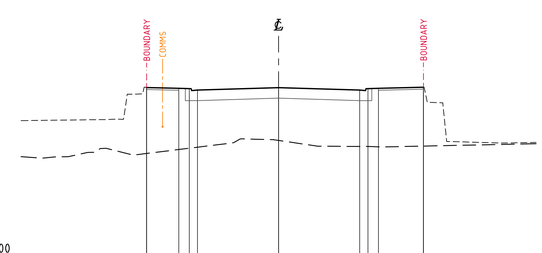
DATUM 62.00																					
DESIGN LEVEL			74.900	74.902	74.840	74.819	74.709	74.898			74.709	74.819	74.840		74.927	74.927					
EXISTING LEVEL			72.168	72.146	72.020	71.996	71.977	71.933			72.193	72.245	72.313		72.284	72.284					
OFFSET	-20.000		-10.281	-10.250	-7.750	-6.940	-6.300	0.000			6.300	6.940	7.750		11.250	11.250					20.000

CL AUGUSTA ST
CH 110.000



DATUM 60.00																					
DESIGN LEVEL			73.638	73.576	73.556	73.446		73.635			73.446	73.556	73.576		73.663	73.663					
EXISTING LEVEL			70.015	70.003	69.923	69.912		69.815			69.743	69.727	69.707		69.778	69.778					
OFFSET	-20.000		-10.250	-7.750	-6.940	-6.300		0.000			6.300	6.940	7.750		11.250	11.250					20.000

CL AUGUSTA ST
CH 140.000



DATUM 60.00																					
DESIGN LEVEL			73.036	73.035	72.973	72.952	72.842	73.031			72.842	72.952	72.973		73.060	73.060					
EXISTING LEVEL			67.916	67.918	68.226	68.226	68.405	68.930			68.465	68.467	68.434		68.492	68.492					
OFFSET	-20.000		-10.259	-10.250	-7.750	-6.940	-6.300	0.000			6.300	6.940	7.750		11.250	11.250					20.000

CL AUGUSTA ST
CH 170.000

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA734

CONSULT AUSTRALIA

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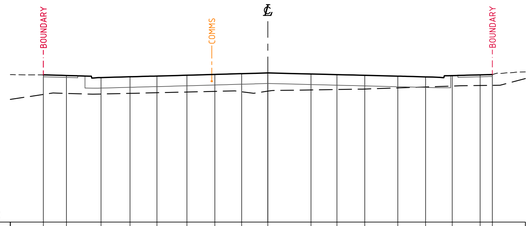
COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
ROADWORKS CROSS SECTIONS
AUGUSTA STREET
SHEET 2

DRAWING No C013904.03-SSDA734 ISSUE B

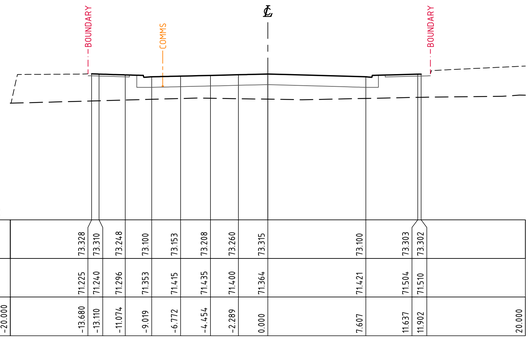
LEGEND:

- DENOTES DESIGN ROAD PAVEMENT SURFACE PROFILE
- DENOTES SITE GRADING PROFILE
- DENOTES EXISTING PROFILE
- DENOTES EXISTING DRAINAGE SERVICES
- DENOTES EXISTING COMMUNICATIONS CABLE/ PIPE SERVICES



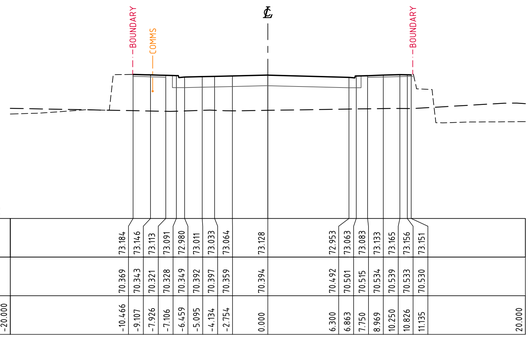
DATUM 62.00																					
DESIGN LEVEL			73.432	73.381	73.222	73.284	73.339	73.403	73.464	73.523	73.581		73.499	73.450	73.397	73.330	73.274	73.373	73.431	73.456	
EXISTING LEVEL			71.910	71.991	71.944	71.994	72.044	72.099	72.150	72.119	72.166		72.262	72.294	72.331	72.417	72.490	72.560	72.605	72.620	
OFFSET	-20.000	-17.434	-15.635	-12.955	-10.701	-8.608	-6.285	-4.115	-2.036	0.000	3.353	5.363	7.524	10.088	12.248	14.317	16.483	17.534	20.000		

CL AUGUSTA ST
CH 220.000



DATUM 62.00																					
DESIGN LEVEL			73.328	73.310	73.248	73.100	73.153	73.208	73.260	73.315					73.100		73.303	73.302			
EXISTING LEVEL			71.225	71.240	71.296	71.353	71.415	71.435	71.400	71.364					71.421		71.564	71.510			
OFFSET	-20.000	-13.680	-13.110	-11.074	-9.019	-6.772	-4.454	-2.289	0.000	7.607	11.637	11.902	20.000								

CL AUGUSTA ST
CH 210.000



DATUM 62.00																					
DESIGN LEVEL			73.184	73.146	73.113	73.091	72.980	73.011	73.033	73.064	73.128			72.953	73.063	73.093	73.133	73.165	73.156	73.151	
EXISTING LEVEL			70.369	70.343	70.321	70.328	70.349	70.392	70.397	70.359	70.394			70.492	70.561	70.515	70.534	70.539	70.533	70.530	
OFFSET	-20.000	-10.466	-9.107	-7.926	-7.106	-6.459	-5.095	-4.134	-2.754	0.000	6.300	6.663	7.750	8.969	10.250	10.826	11.135	20.000			

CL AUGUSTA ST
CH 200.000

FOR SSDA

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	08.03.24	A

AMENDMENTS DATE ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA735

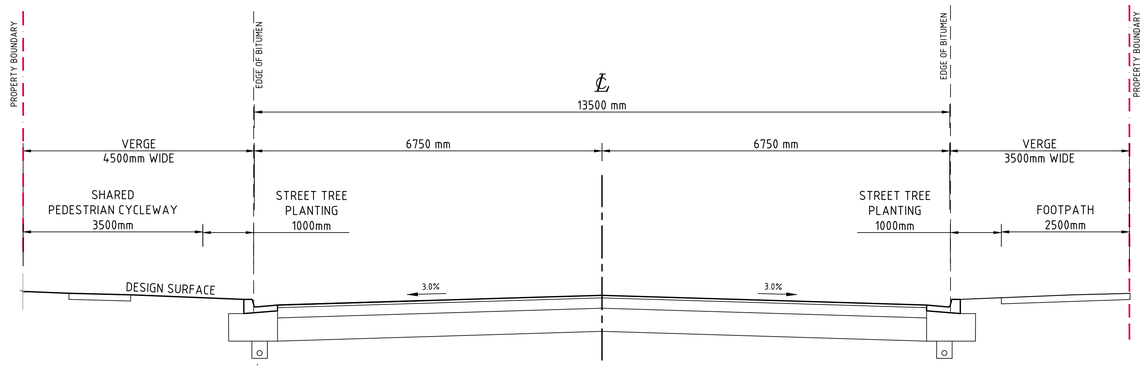
CONSULT AUSTRALIA

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CRC COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
ROADWORKS CROSS SECTIONS
AUGUSTA STREET
SHEET 3

DRAWING No C013904.03-SSDA735
ISSUE B



AUGUSTA STREET TYPICAL SECTION

SCALE 1:50

FLUSHCOMBE ROAD TYPICAL SECTION

SCALE 1:50

FOR SSDA

500mm 0 1 2 3 4 5m

SCALE 1:50 AT B1 SIZE SHEET

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	C
REVISED AS CLOUDED	30.06.23	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACE ARCHITECTS

CLIENT
LOGOS

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA750

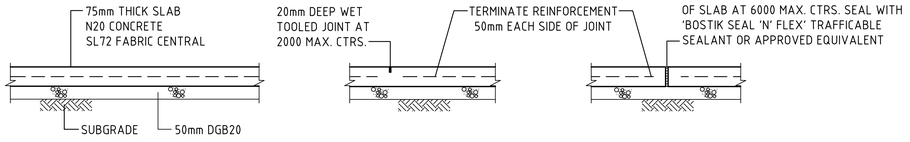
CONSULT AUSTRALIA

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COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
ROADWORKS TYPICAL SECTIONS

DRAWING No C013904.03-SSDA750

ISSUE C

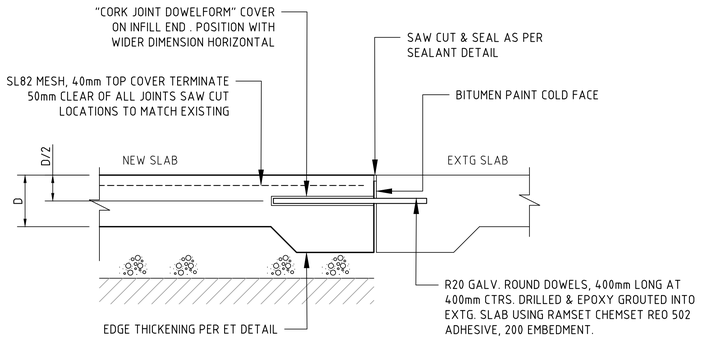


PEDESTRIAN SLAB PROFILE DETAIL | WET TOOLED JOINT | BUTT JOINT

PEDESTRIAN SLAB DETAILS

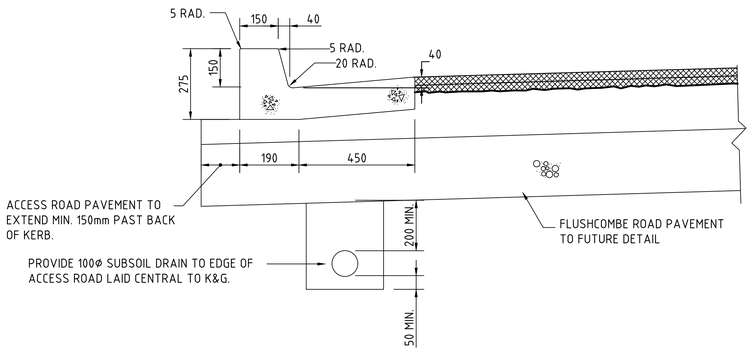
SCALE 1:10

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
PEDESTRIAN SLABS	80	20	SL	NIL	25



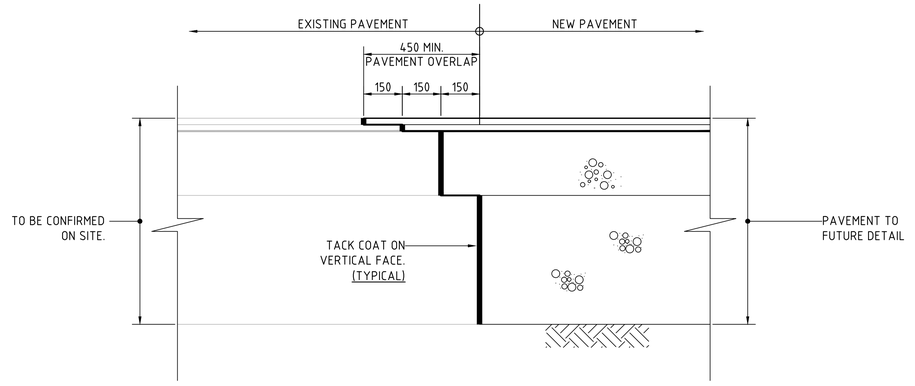
DOWELLED JOINT TO EXTG. SLAB : DJ-E

SCALE 1:10



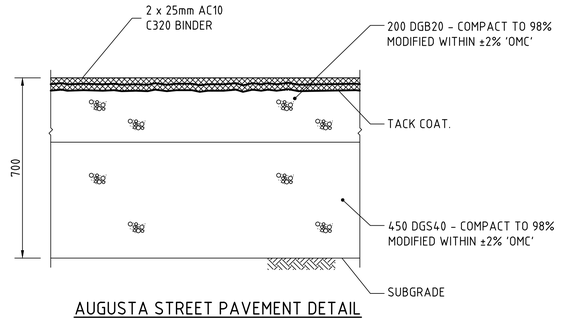
KERB & GUTTER (K&G) & SUBSOIL DETAIL

SCALE 1:10



TYPICAL NEW / EXISTING PAVEMENT INTERFACE DETAIL

SCALE 1:10



AUGUSTA STREET PAVEMENT DETAIL

SCALE 1:10

DESIGN TRAFFIC OF 1 x 10^7 ESA's
DESIGN CBR VALUE OF 3.0%
CBR OF SUBGRADE TO BE CONFIRMED TO ENGINEER FOR FINAL PAVEMENT OPTIMISATION AND DESIGN.
CBR OF SELECT FILL TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY SUBSEQUENT PAVEMENT LAYER

NOTE:

CONFIRMATION OF PAVEMENT DESIGN THROUGH FLUSHCOMBE ROAD SUBJECT TO COUNCIL APPROVAL & CONFIRMATION OF EXISTING FLUSHCOMBE PAVEMENT.

100mm 0 200 400 600 800 1000mm

SCALE 1:10 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	16.06.23	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE' 22	MW	B1	AS SHOWN	C013904.03-SSDA755

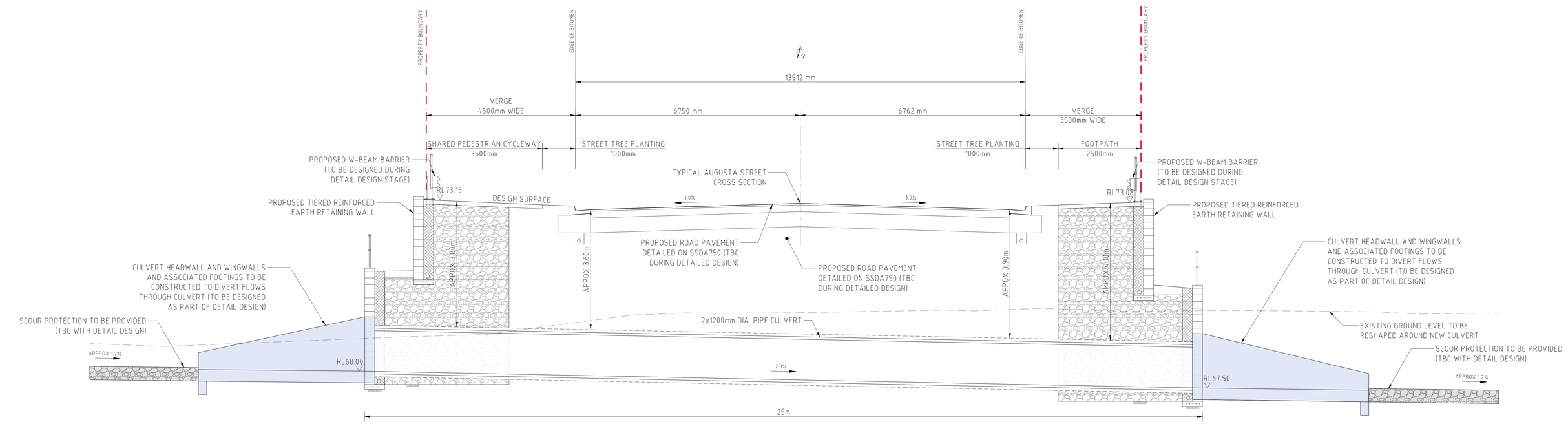
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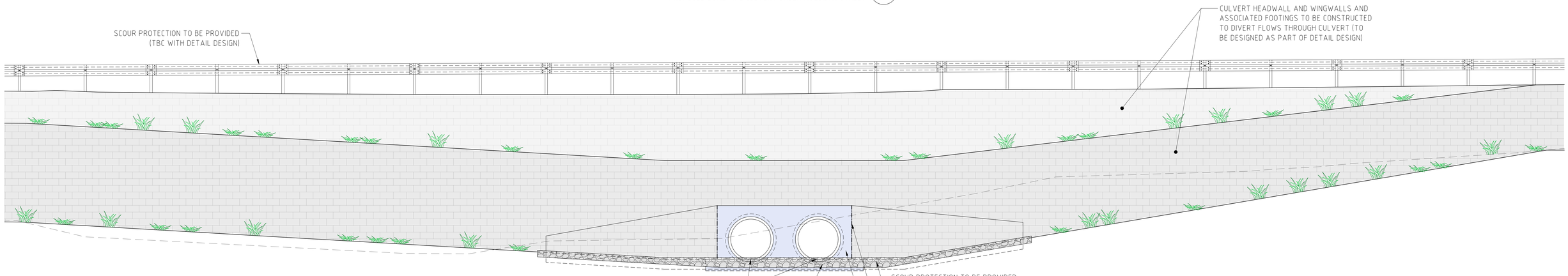
CRC COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: ROADWORKS TYPICAL DETAILS

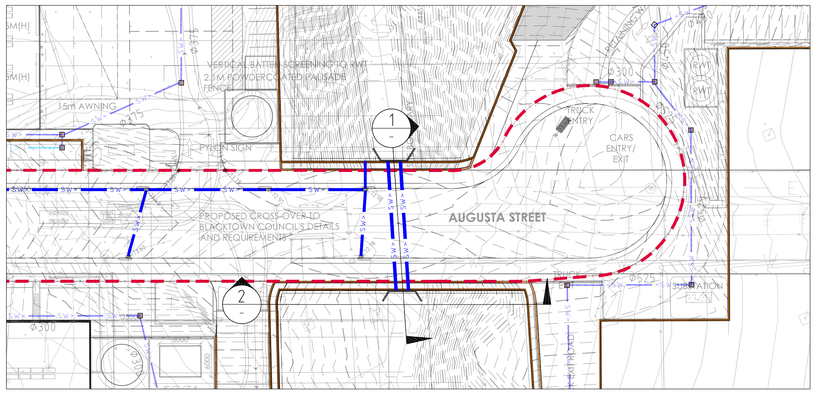
DRAWING No: C013904.03-SSDA755 ISSUE: B



SECTION 1:50 (1)
PROPOSED DUAL PIPE CULVERT UNDER AUGUSTA STREET



SECTION 1:50 (2)
PROPOSED DUAL PIPE CULVERT UNDER AUGUSTA STREET



PLAN
SCALE 1:500

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR SSDA

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	02.08.24	B
ISSUED FOR INFORMATION	06.03.24	A

ARCHITECT: PACE ARCHITECTS

CLIENT: LOGOS

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	JUNE '22	MW	B1	AS SHOWN	C013904.03-SSDA756

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COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: ROADWORKS TYPICAL SECTIONS

DRAWING No: C013904.03-SSDA756 ISSUE: B