

DRAWING LIST

SITE PREPARATION NOTES:

1. ALL EARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE GUIDELINES SPECIFIED BY THE GEOTECHNICAL REPORT.
2. EXISTING LEVELS ARE BASED ON THE SURVEY INFORMATION PROVIDED.
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 PLACEMENT AND -0mm/+200mm ELSEWHERE.
5. PREPARE STRIP BATTERS TO RECEIVE FILL BY CONSTRUCTING BENCHING TO FACILITATE FILL PLACEMENT AND COMPACTION.
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 HALF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HALF 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 HALF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HALF 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) OR HALF TEST METHOD (AS1289.5.1). 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 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 IEG. COSTIN ROE SITE PREPARATION NOTES IN DWG CO13003.01-EWC10).
11. PREPARE ANY EARTHWORKS, EROSION CONTROL AS OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE COMPLETED.
12. EXISTING ROCK, IF ANY, SHALL BE REMOVED BY HEAVY ROCK BREAKING OR RIPPING.
13. MATCH EXISTING LEVELS AT BATTER INTERFACE.
14. 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.

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 IN AN ELECTRONICALLY 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 CONTRACTOR WILL NOT BE LIABLE OR RESPONSIBLE FOR ANY 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.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S 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 WORKSMANSHIP 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 VARYED 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.
4. REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION. 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.

EROSION CONTROL NOTES:

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS

1. SILT FENCES AND SILT FENCE RETURNS SHALL BE ERRECTED CONVEX TO THE CONTOUR TO POND WATER.
2. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
3. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
4. CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
7. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
8. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
9. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
10. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
11. ALL VEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
12. ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
13. 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 SUCH DISTURBANCE.
14. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS 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 APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
15. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FROM MOTOR VEHICLES.
16. 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 POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
17. 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.

FINISHED LEVELS PLAN NOTES:

1. LEVELS DATUM IS A H.D.
2. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
3. THE MAJOR CONTOUR INTERVAL IS 0.5m
4. THE MINOR CONTOUR INTERVAL IS 0.1m.
5. MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
6. MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) IN CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
7. MAXIMUM RAMP GRADES ARE TO BE 1:20 (8.3%) U.N.O. ON PLAN
8. PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGES GRADE EXCEED 1:20 (5%).
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H
10. ALL BATTER SLOPES 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. THE ACCESS ROAD TO THE HARDESTAND AREA IS TO HAVE A CROSSFALL OF 2% AS INDICATED ON PLAN.
12. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5% NOMINAL GRADE.
13. ALL PAVEMENTS ARE TO BE SET AT 50mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS.

STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500 3.2003 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR URB STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR URB STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS DASI1 & DASI2.
4. PIPE 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. ALL STORMWATER PIPES Ø75 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
7. ALL PIPES UP TO AND INCLUDING Ø300 TO BE IN-SPVCE GRADE SN8 UNO.
8. PIPE CLASS NOMINATED ARE FOR IN-SPURVE 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 6 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 Ø100 uPVC TO EACH SIDE OF PIPE.
14. ALL SUBSOIL DRAINAGE LINES SHALL BE Ø100 SLOTTED uPVC WITH APPROVED FLITTER 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. ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
16. PROVIDE STEEL IRONS IN PITS DEEPER THAN 1000mm.
17. MIN 400 COVER TO OVERLAP BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
18. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS S 'HEAVY DUTY', THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' UNO.
19. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
20. DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE UNO. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
21. 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.



FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION			09.12.20	E				ARCHITECT						CLIENT						PROJECT						Costin Roe Consulting Pty Ltd. Consulting Engineers Level 1, 6 Windmill Street Walsh Bay, Sydney NSW 2000 Tel: (02) 9281-7899 Fax: (02) 9241-3721 Email: mail@costinroe.com.au ©			DRAWING TITLE DRAWING LIST & GENERAL NOTES					
ISSUED FOR DEVELOPMENT APPLICATION			03.06.20	D																														
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AMENDMENTS			DATE	ISSUE	AMENDMENTS			DATE			ISSUE			AMENDMENTS			DATE			ISSUE			AMENDMENTS			DATE			ISSUE					

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY
INFORMATION PROVIDED.

-  - SILT FENCE
-  - SILT FENCE WITH CATCH DRAIN
-  - DIVERSION DRAIN
-  - EXISTING SYDNEY WATER MAIN
-  - EXISTING SEWER MAIN
-  - DIRECTION OF OVERLAND FLOW
-  - DENOTES CATCHMENT 1
-  - DENOTES CATCHMENT 2
-  - DENOTES CATCHMENT 3

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING
C01325106-DA25.
SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND
CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.
CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 85th PERCENTILE
INTENSITY (32.2mm).

APPROXIMATE AREA OF DISTURBED SITE = 17.8 ha

SEDIMENT BASIN 1:

CATCHMENT AREA = 6.44 ha
 REQUIRED BASIN VOLUME = 1,555m³
 BASE DIMENSIONS (L X W) = 20m x 3m
 TOP DIMENSIONS (L X W) = 29m x 4m
 MAX SIDE SLOPE = 1V:3H
 DEPTH = 1.5m
 PROVIDED BASIN VOLUME = 1,570m³

SEDIMENT BASIN 2:

CATCHMENT AREA = 6.18 ha
REQUIRED BASIN VOLUME = 1,492m³
BASE DIMENSIONS (L X W) = 19m x 38m
TOP DIMENSIONS (L X W) = 28m x 47m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 1,506m³

SEDIMENT BASIN 3:

CATCHMENT AREA = 5.17 ha
REQUIRED BASIN VOLUME = 1,249m³
BASE DIMENSIONS (L X W) = 17m x 34m
TOP DIMENSIONS (L X W) = 26m x 43m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 1,250m³

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.

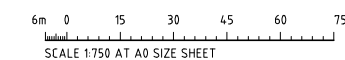
ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

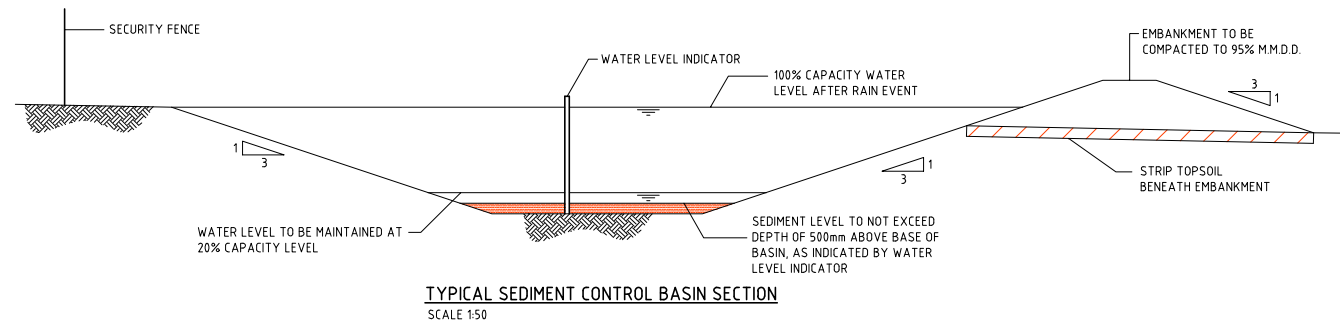
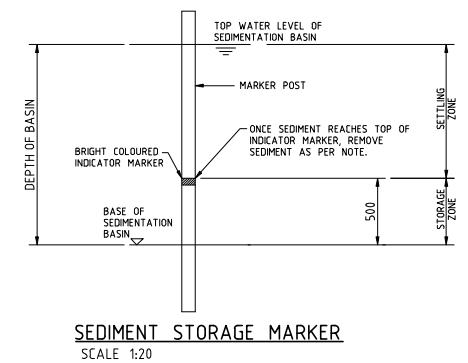
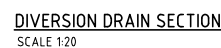
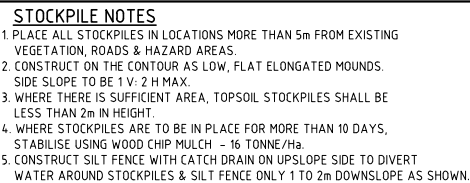
NOTES:

1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)



FOR DEVELOPMENT APPLICATION

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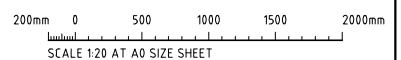
NOTES:
ALL EROSION & SEDIMENT CONTROL MEASURES TO BE INSPECTED & MAINTAINED DAILY BY SITE MANAGER.

MINIMISE DISTURBED AREAS.

ROADS & FOOTPATHS TO BE SWEEPED DAILY.

12m TURF TO BE PLACED BEHIND KERBS.

DUST MINIMISATION CONTROL BY WATERING TO BE IMPLEMENTED BY SITE MANAGER AS REQUIRED OR AS DIRECTED BY THE EPA.



FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION 03.06.20 8										ISSUED FOR INFORMATION 19.03.20 4										AMENDMENTS DATE ISSUE AMENDMENTS DATE ISSUE										ARCHITECT SB A ARCHITECTS Level 100, 100 Bourke Street, North Sydney NSW 1585 02 9550 4000 02 9550 4000 info@sbarchitects.com.au										CLIENT Aliro										PROJECT STATE SIGNIFICANT DEVELOPMENT APPLICATION 44 CLUNIES ROSS STREET, GREYSTANES DESIGNED DRAWN DATE SIZE SCALE CAD REVISIONS 10/01/20 10/01/20 10/01/20 A1 AS SHOWN 10/01/20 06-0425										Costin Roe Consulting Pty Ltd. Consulting Engineers Level 1, 8 Windmill Street Nahb Bay, Sydney NSW 2060 Tel: (02) 9691-7000 Fax: (02) 9691-3721 email: mail@costinroe.com.au ©										Costin Roe Consulting PRECISION COMMUNICATION ACCOUNTABILITY										DRAWING TITLE EROSION & SEDIMENT CONTROL DETAILS DRAWING NO C013251.06-DA25 ISSUE B									
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EARTHWORKS VOLUMES
VOLUMES (APPROXIMATE ONLY):

STAGE 1

CUT = - 100 900 m³
FILL = + 57 400 m³

DETAILED EXCAVATION (1,500m³/Ha over 4.97Ha) = - 7 500 m³

REINFORCED EARTH WALL BACKFILL = - 37 600 m³

BALANCE = - 88 600 m³ (EXPORT)

STAGE 2

CUT = - 45 900 m³
FILL = + 210 900 m³
WETLAND REGRADING = ± 0 m³ (CUT/FILL BALANCE)
DETENTION BASIN REGRADING = - 13 900 m³

DETAILED EXCAVATION (1,500m³/Ha over 12.62Ha) = - 18 900 m³

REINFORCED EARTH WALL BACKFILL = - 38 200 m³

BALANCE = + 94 000 m³ (IMPORT)

OVERALL

STAGE 1 BULK EARTHWORKS = - 88 600 m³
STAGE 2 BULK EARTHWORKS = + 94 000 m³

BALANCE = + 5 400 m³ (IMPORT)

EARTHWORK VOLUMES ARE PRELIMINARY ONLY AND HAVE BEEN BASED ON A TOPSOIL STRIP/SLAB TRIM OF 200mm OVER THE ENTIRE SITE. THE VOLUMES HAVE ALSO BEEN BASED ON AN OVERALL PAVEMENT STRUCTURAL THICKNESS OF 300mm ACROSS THE SITE. NO ALLOWANCE HAS BEEN MADE IN THE ABOVE VOLUMES FOR EROSION & SEDIMENT CONTROL BACKFILLING, BULKING OR COMPACTION OF FILLED SOILS, THE REMOVAL OF UNCONTROLLED FILL OR CONTAMINATED MATERIAL, TEMPORARY DRAINAGE SWALES WITHIN BUILDING PADS, OR ANY OTHER UNSPECIFIED EXCAVATION RELATED TO FUTURE WAREHOUSE CONSTRUCTION.

THE EXISTING SURFACE IS BASED ON:

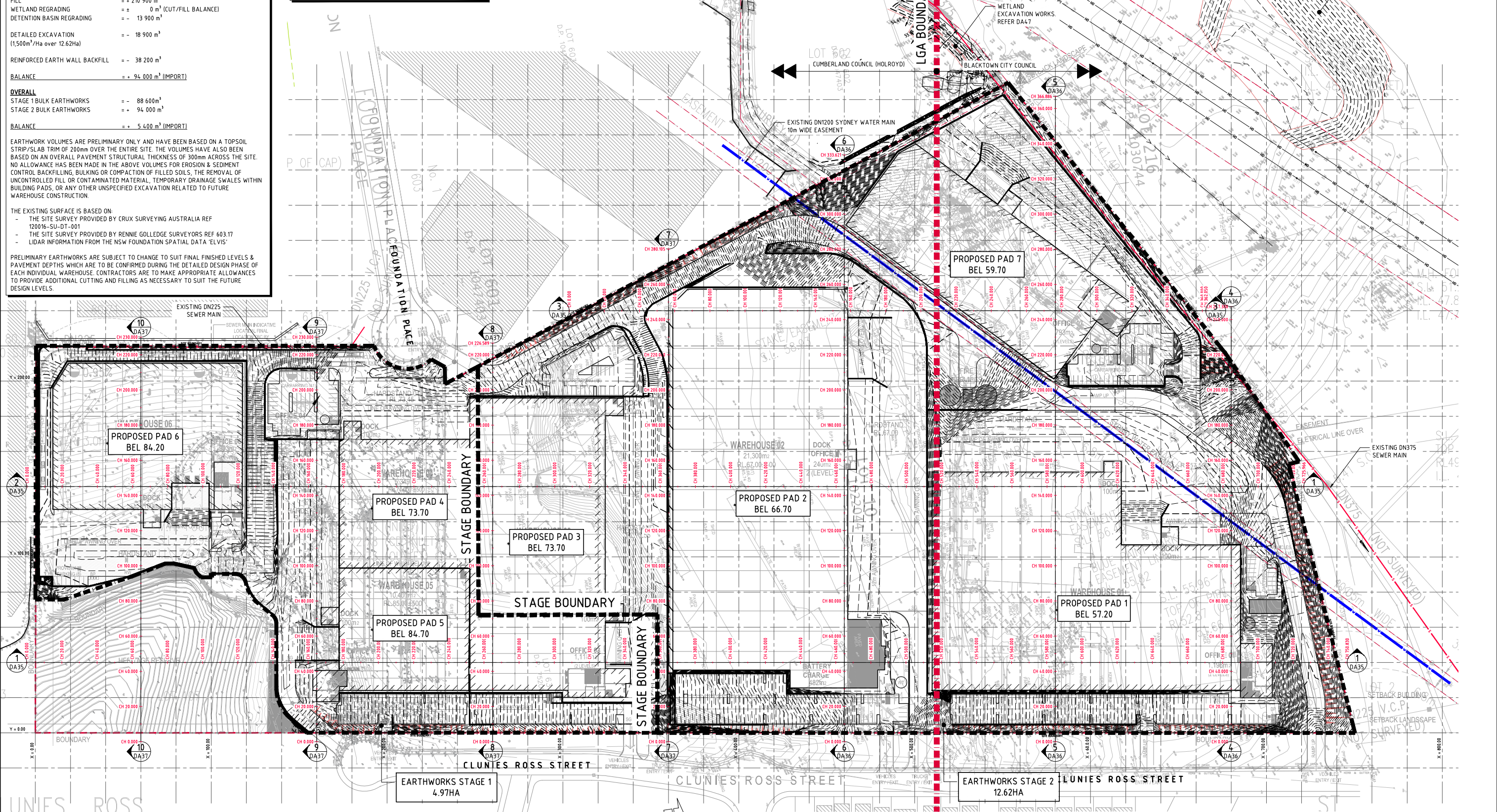
- THE SITE SURVEY PROVIDED BY CRUX SURVEYING AUSTRALIA REF 120016-SU-DT-001
- THE SITE SURVEY PROVIDED BY RENNIE GOLDFELD SURVEYORS REF 603.17
- LIDAR INFORMATION FROM THE NSW FOUNDATION SPATIAL DATA 'ELVIS'

PRELIMINARY EARTHWORKS ARE SUBJECT TO CHANGE TO SUIT FINAL FINISHED LEVELS & PAVEMENT DEPTHS WHICH ARE TO BE CONFIRMED DURING THE DETAILED DESIGN PHASE OF EACH INDIVIDUAL WAREHOUSE. CONTRACTORS ARE TO MAKE APPROPRIATE ALLOWANCES TO PROVIDE ADDITIONAL CUTTING AND FILLING AS NECESSARY TO SUIT THE FUTURE DESIGN LEVELS.

LEGEND:
LEVELS DATUM IS AHD

— 50.00 — - EXISTING CONTOUR (0.2m INTERVAL)
— 50.00 — - B.E.L. CONTOUR (MAJOR 1.0m)
— 50.10 — - B.E.L. CONTOUR (MINOR 0.25m)
— 50.00 — - B.E.L. SPOT LEVEL

— S — - EXISTING SEWER
— W — - EXISTING SYDNEY WATER MAIN



BULK EARTHWORKS PLAN
SCALE 1:750

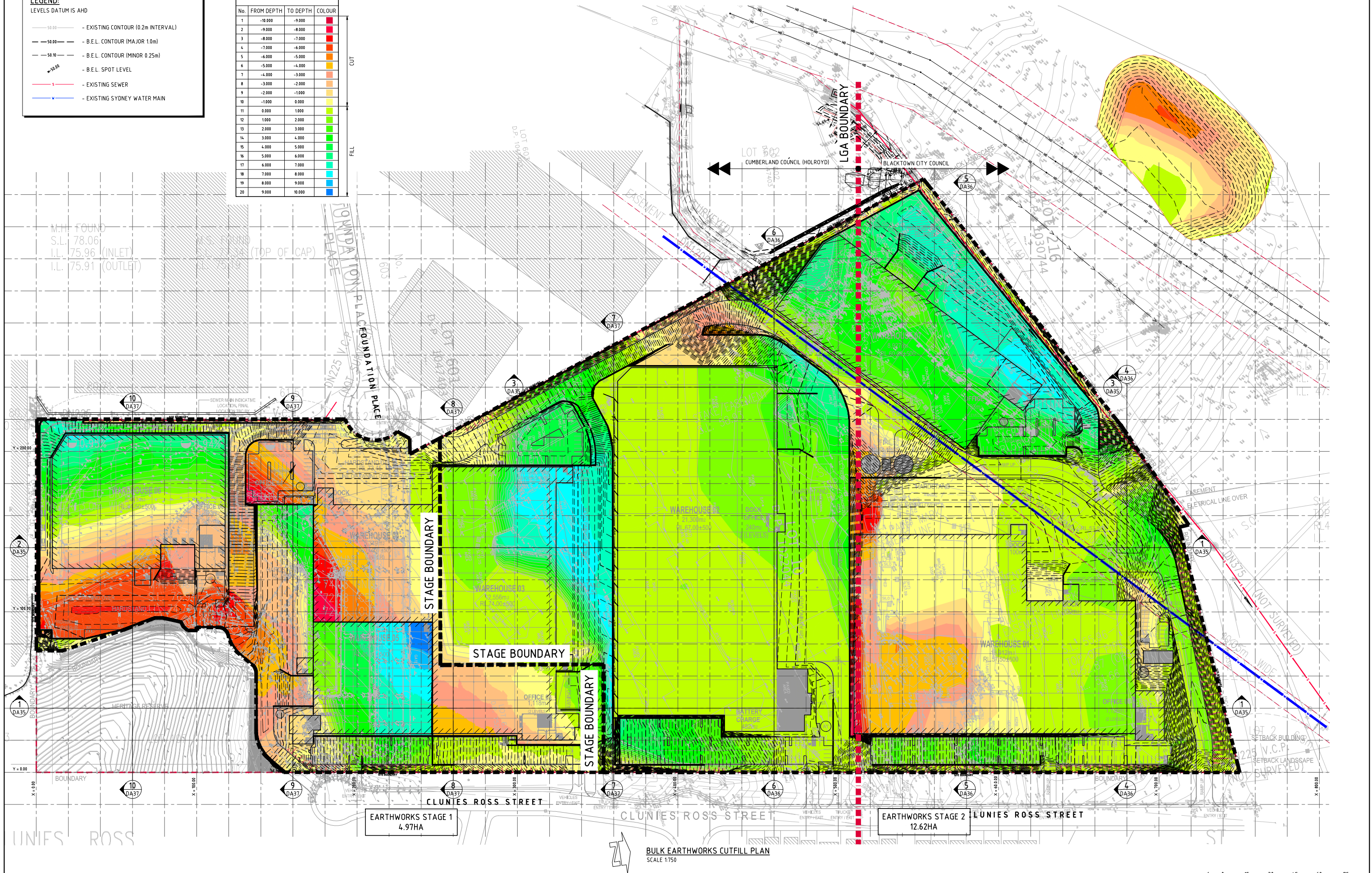
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LEGEND:

LEVELS DATUM IS AHD

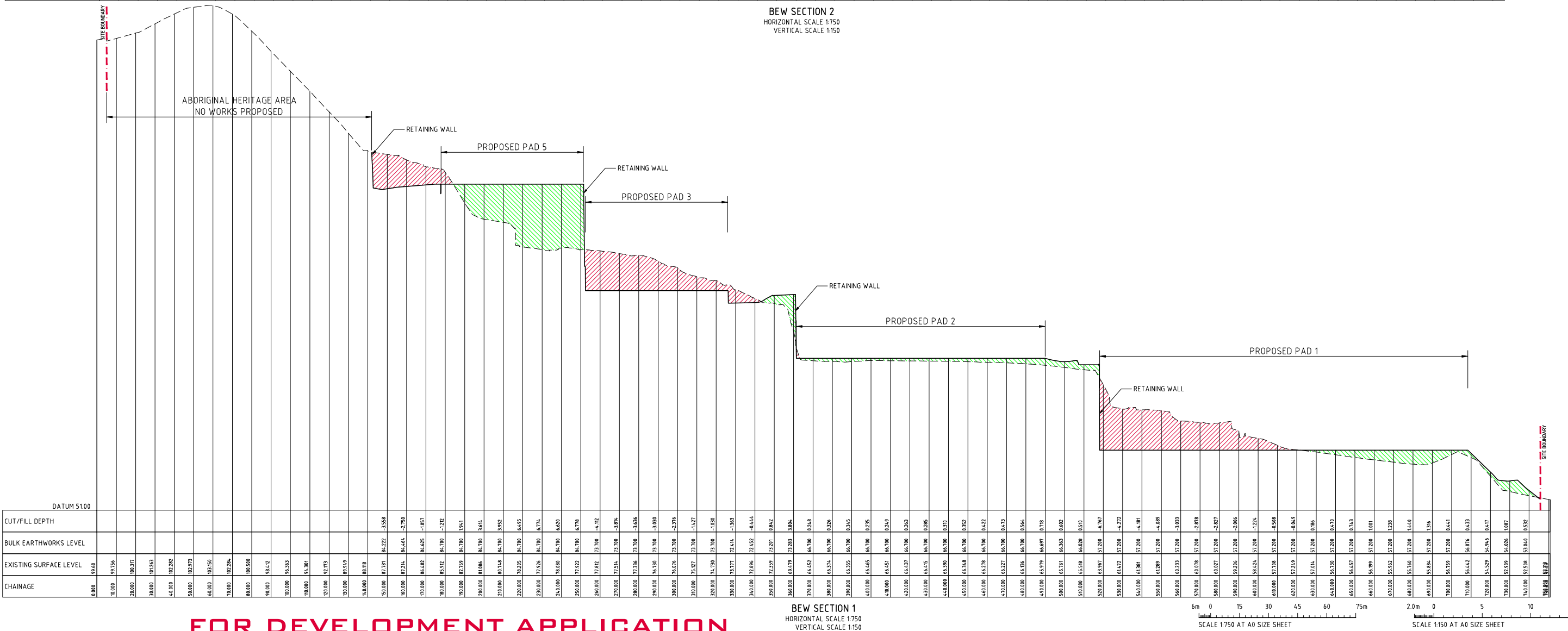
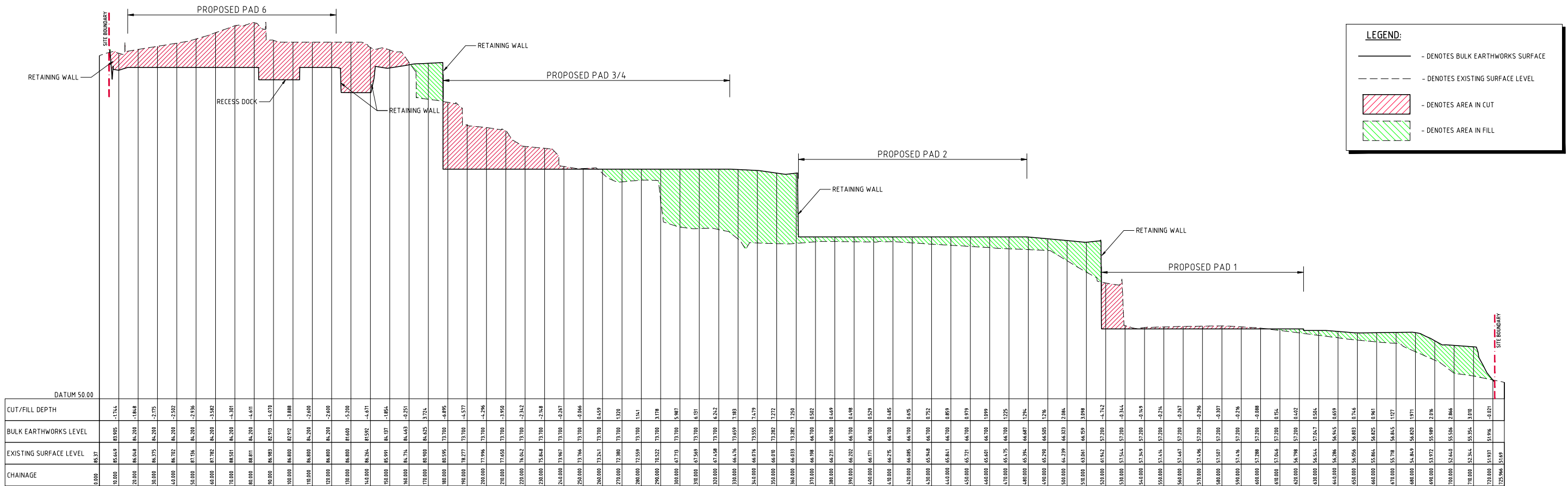
- 50.00 — - EXISTING CONTOUR (0.2m INTERVAL)
— 50.00 — - B.E.L. CONTOUR (MAJOR 1.0m)
— 50.10 — - B.E.L. CONTOUR (MINOR 0.25m)
▲ 50.00 - B.E.L. SPOT LEVEL
— S — - EXISTING SEWER
— W — - EXISTING SYDNEY WATER MAIN

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

BULK EARTHWORKS CUT/FILL PLAN
SCALE 1:7506m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION 28.01.21 E				ARCHITECT SBA STRUCTURE				CLIENT Aliro				PROJECT STATE SIGNIFICANT DEVELOPMENT APPLICATION 44 CLUNIES ROSS STREET, GREYSTANES				Costin Roe Consulting Pty Ltd. Consulting Engineers Level 1, 8 Windmill Street Wah Bay, Sydney NSW 2000 Tel: (02) 9551-7889 Fax: (02) 9541-3721 email: mail@costinroe.com.au				DRAWING TITLE BULK EARTHWORKS CUT/FILL PLAN			
ISSUED FOR DEVELOPMENT APPLICATION 27.01.21 D												DESIGNED (DRAWN) DATE 10 10 MAR 20				PRECISION COMMUNICATION ACCOUNTABILITY				DRAWING No C013251.06-DA31			
ISSUED FOR DEVELOPMENT APPLICATION 22.04.20 C												CHECKED (PLW) DATE 10 10 MAR 20											
ISSUED FOR INFORMATION 19.03.20 B																							
AMENDMENTS				DATE				DATE															
AMENDMENTS				DATE				DATE															



FOR DEVELOPMENT APPLICATION



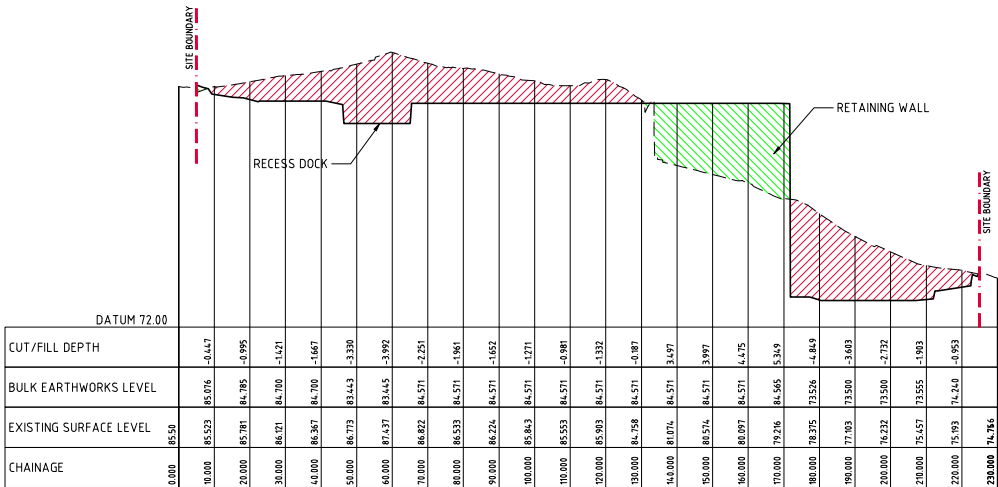
LEGEND:

- DENOTES BULK EARTHWORKS SURFACE

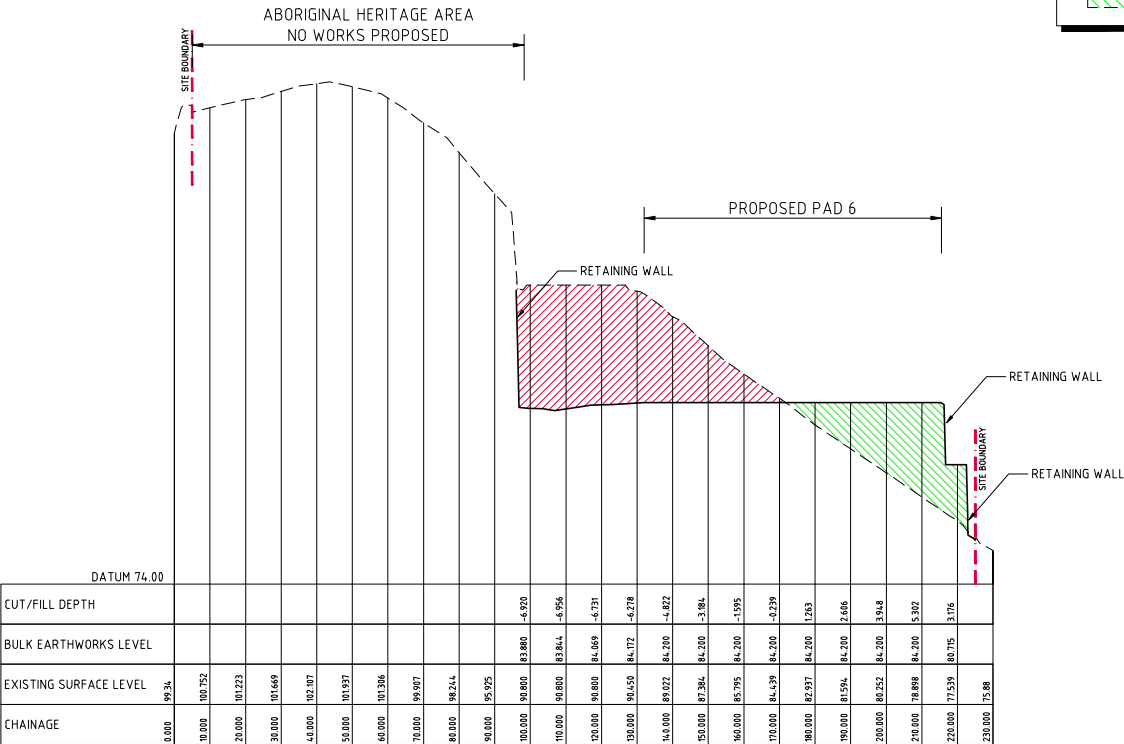
- DENOTES EXISTING SURFACE LEVEL

- DENOTES AREA IN CUT

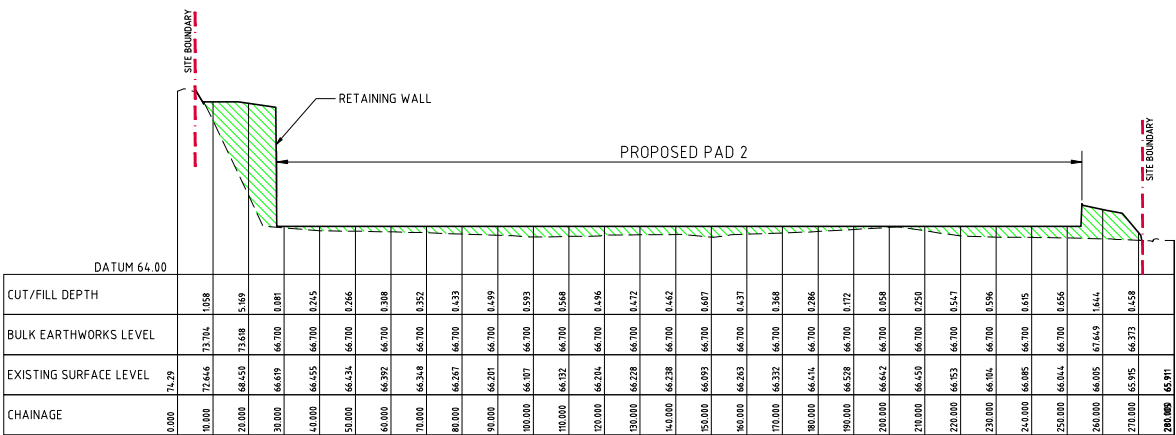
- DENOTES AREA IN FILL



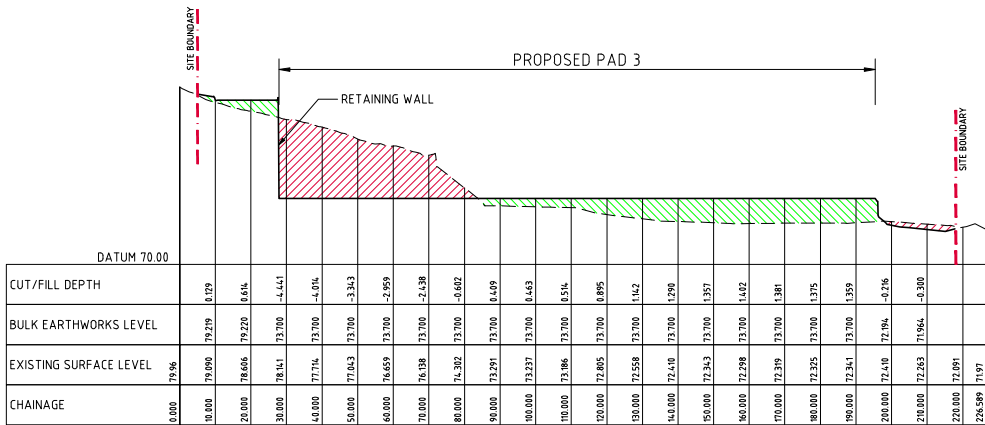
BEW SECTION 9
HORIZONTAL SCALE 1:750
VERTICAL SCALE 1:150



BEW SECTION 10
HORIZONTAL SCALE 1:750
VERTICAL SCALE 1:150



BEW SECTION 7
HORIZONTAL SCALE 1:750
VERTICAL SCALE 1:150



BEW SECTION 8
HORIZONTAL SCALE 1:750
VERTICAL SCALE 1:150



FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION

ISSUED FOR INFORMATION

AMENDMENTS

03.04.20

19.03.20

DATE

B

A

ISSUE

AMENDMENTS

DATE

ISSUE

AMENDMENTS

DATE

ISSUE

ARCHITECT

CLIENT

PROJECT

DESIGNED (DRAWN)

CHECKED

SIZE

SCALE

CAD REF

Costin Roe Consulting Pty Ltd.

Level 1, 8 Winton Hill Street

Wahah Bay, Sydney NSW 2000

Tel: (02) 9551-7889 Fax: (02) 9541-3721

email: mail@costinroe.com.au

PRECISION

COMMUNICATION

ACCOUNTABILITY

DRAWING TITLE

BULK EARTHWORKS SECTIONS

SHEET 3

C013251.06-DA37

B

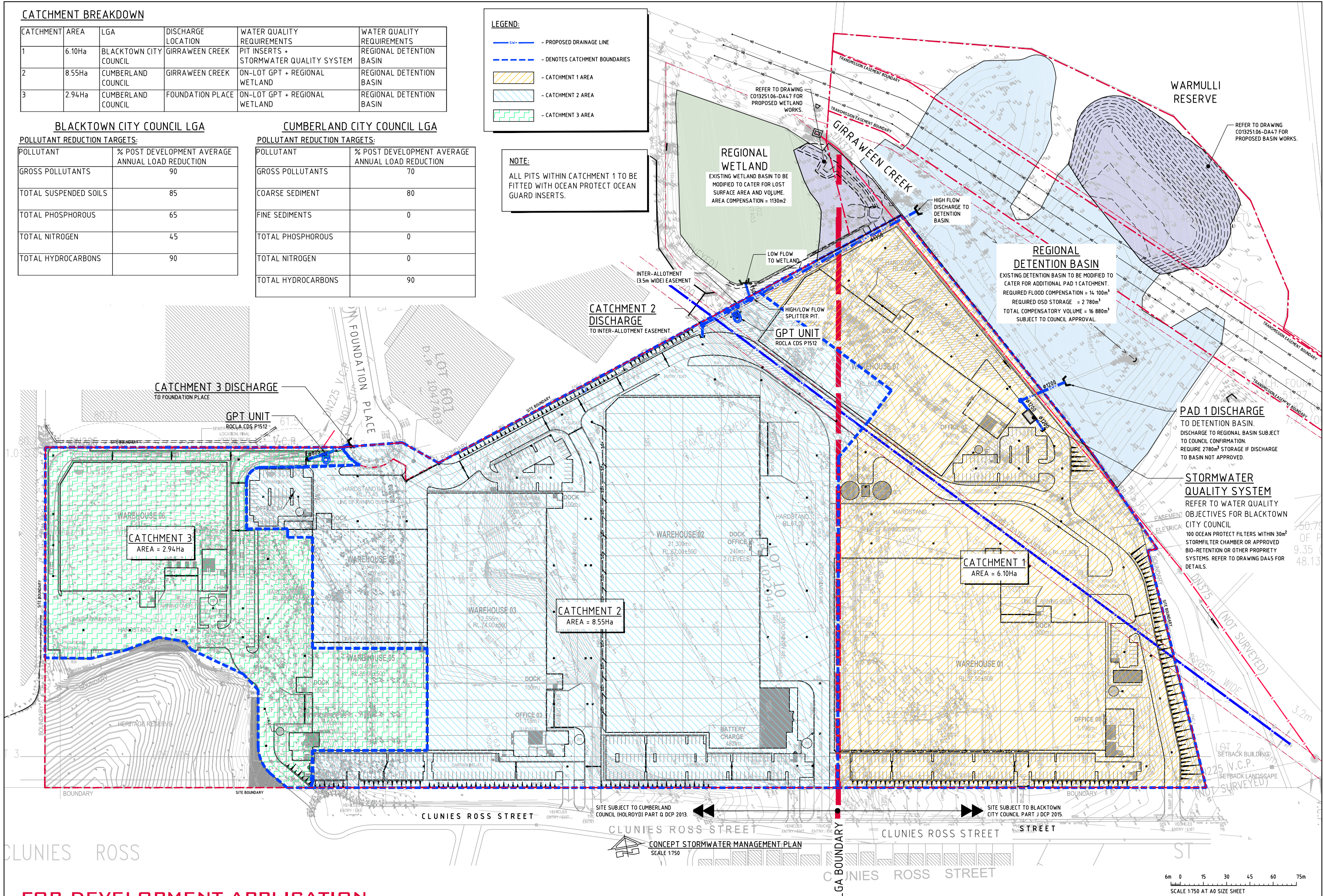
CATCHMENT	AREA	LGA	DISCHARGE LOCATION	WATER QUALITY REQUIREMENTS	WATER QUALITY REQUIREMENTS
1	6.10Ha	BLACKTOWN CITY COUNCIL	GIRRAWEE CREEK	PIT INSERTS + STORMWATER QUALITY SYSTEM	REGIONAL DETENTION BASIN
2	8.55Ha	CUMBERLAND COUNCIL	GIRRAWEE CREEK	ON-LOT GPT + REGIONAL WETLAND	REGIONAL DETENTION BASIN
3	2.94Ha	CUMBERLAND COUNCIL	FOUNDATION PLACE	ON-LOT GPT + REGIONAL WETLAND	REGIONAL DETENTION BASIN

POLLUTANT	% POST DEVELOPMENT AVERAGE ANNUAL LOAD REDUCTION
GROSS POLLUTANTS	90
TOTAL SUSPENDED SOILS	85
TOTAL PHOSPHOROUS	65
TOTAL NITROGEN	45
TOTAL HYDROCARBONS	90

POLLUTANT	% POST DEVELOPMENT AVERAGE ANNUAL LOAD REDUCTION
GROSS POLLUTANTS	70
COARSE SEDIMENT	80
FINE SEDIMENTS	0
TOTAL PHOSPHOROUS	0
TOTAL NITROGEN	0
TOTAL HYDROCARBONS	90

- - PROPOSED DRAINAGE LINE
- - DENOTES CATCHMENT BOUNDARIES
- - CATCHMENT 1 AREA
- - CATCHMENT 2 AREA
- - CATCHMENT 3 AREA

ALL PITS WITHIN CATCHMENT 1 TO BE
FITTED WITH OCEAN PROTECT OCEAN
GUARD INSERTS.



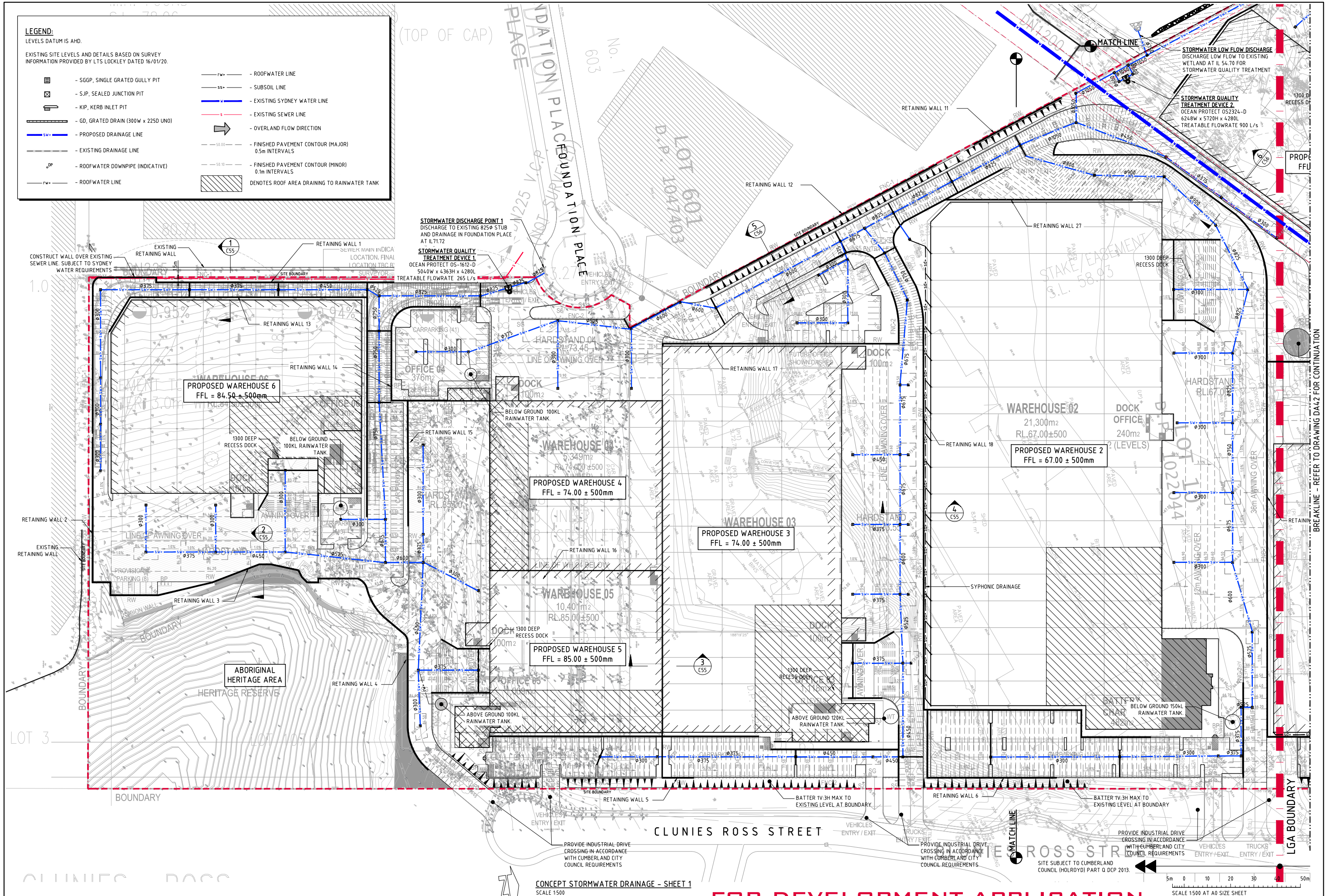
FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION				27.01.21	D					ARCHITECT								CLIENT				PROJECT								Costin Roe Consulting Pty Ltd. Consulting Engineers Level 1, 8 Windmill Street Raine Bay, Sydney NSW 2000 Tel: (02) 9251-7600 Fax: (02) 9246-3761 email: mail@costinroe.com.au or c@costinroe.com.au				DRAWING TITLE CONCEPT STORMWATER MANAGEMENT PLAN							
ISSUED FOR DEVELOPMENT APPLICATION				03.06.20	C																																				
ISSUED FOR INFORMATION				22.04.20	B																																				
ISSUED FOR INFORMATION				19.03.20	A																																				
AMENDMENTS				DATE	ISSUE	AMENDMENTS				DATE	ISSUE	AMENDMENTS				DATE	ISSUE	AMENDMENTS				DATE	ISSUE	AMENDMENTS				DATE	ISSUE	AMENDMENTS				DATE	ISSUE						

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY
INFORMATION PROVIDED BY LTS LOCKLEY DATED 16/01/20

- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------|---|----------------------------|---|-----------------------|---|--------------------------------------|---|--------------------------|---|--------------------------|---|-----------------------------------|---|------------------|---|------------------|---|----------------|---|------------------------------|---|-----------------------|---|---------------------------|---|---|---|---|---|--|
|  | - 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 |  | - ROOFWATER LINE |  | - SUBSOIL LINE |  | - EXISTING SYDNEY WATER LINE |  | - EXISTING SEWER LINE |  | - OVERLAND FLOW DIRECTION |  | - FINISHED PAVEMENT CONTOUR (MAJOR)
0.5m INTERVALS |  | - FINISHED PAVEMENT CONTOUR (MINOR)
0.1m INTERVALS |  | — DENOTES ROOF AREA DRAINING TO RAINWATER TANK |
|---|---------------------------------|---|----------------------------|---|-----------------------|---|--------------------------------------|---|--------------------------|---|--------------------------|---|-----------------------------------|---|------------------|---|------------------|---|----------------|---|------------------------------|---|-----------------------|---|---------------------------|---|---|---|---|---|--|



FOR DEVELOPMENT APPLICATION

[illegible]

ARCHITECT

SB
ARCHITECT

Suite 702, 63 Mount Street, North Sydney NSW 2060
T 02 9826 8888 F 02 9826 8888
E info@sbarch.com.au W www.sbarch.com.au

CLIENT

Aliro

PROJECT					
STATE SIGNIFICANT					
DEVELOPMENT APPLICATION					
44 CLUNIES ROSS STREET, GREYSTANES					
DESIGNED IO	DRAWN IO	DATE MAR '70	CHECKED M.W.	SIZE A0	SCALE AS SHOWN

CONSULT AUSTRALIA

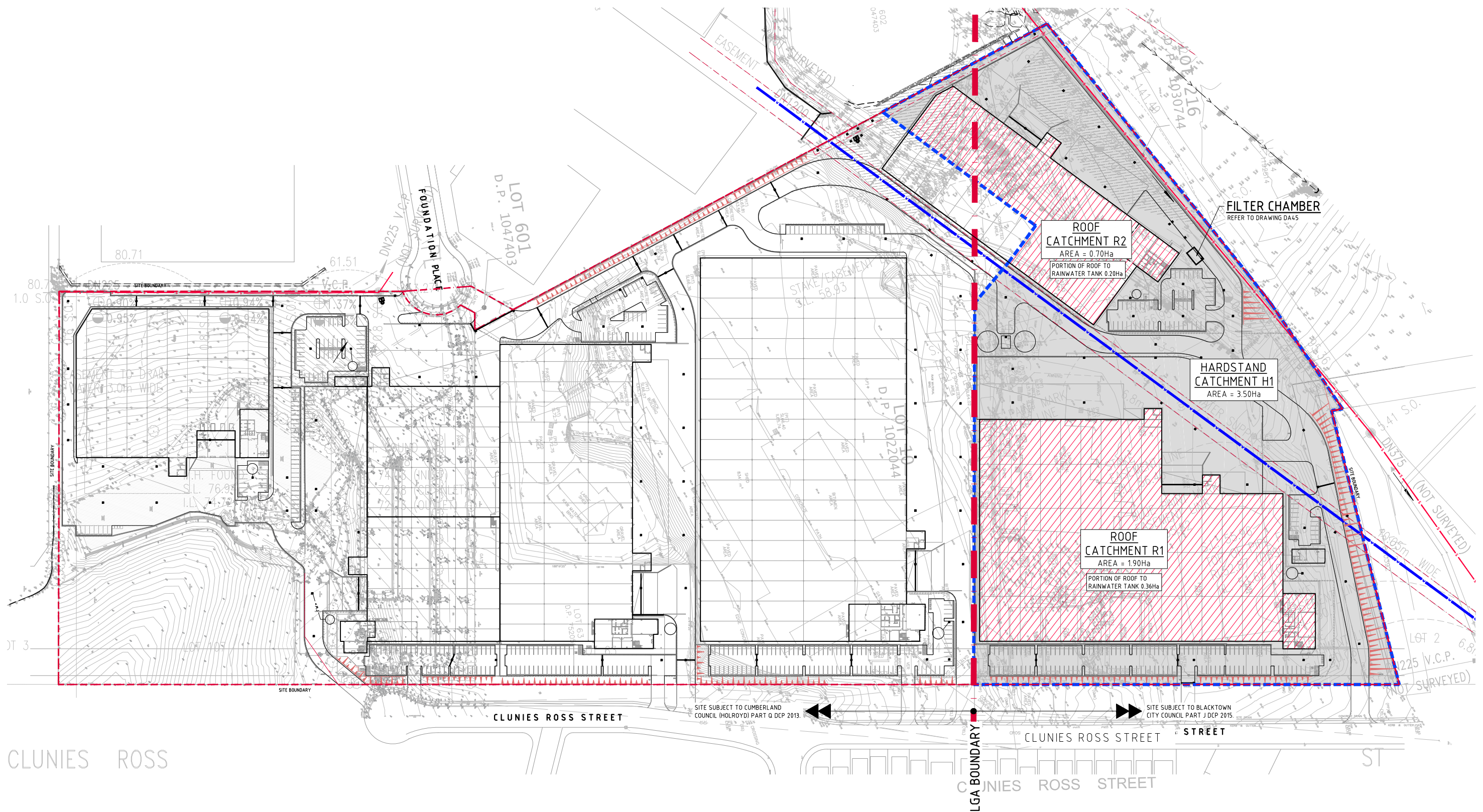
CAD REF:
C013251.06-DA41

Costin Roe Consulting Pty L
Consulting Engineers AS 2885
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au

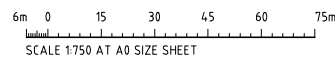
Costin Rice Consulting

PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE	
CONCEPT STORMWATER DRAINAGE	
PLAN	
SHEET 1	
DRAWING No	ISSUE
C013251.06-DA41	E

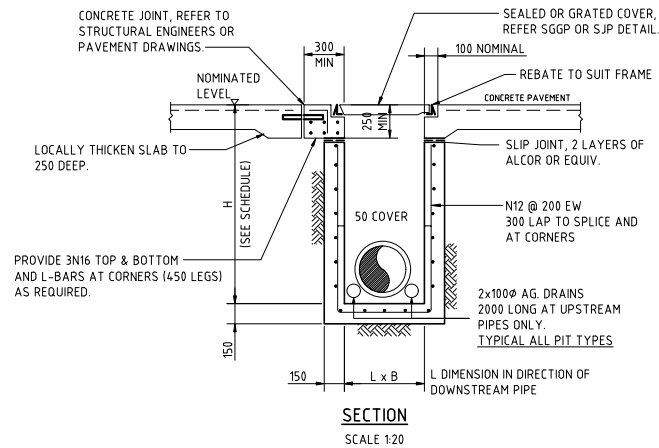


MUSIC CATCHMENT PLAN
SCALE 1:750

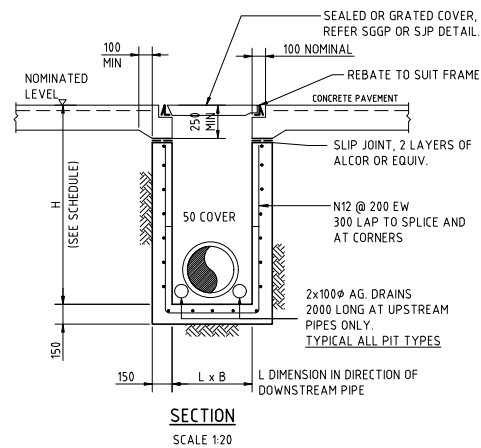


FOR DEVELOPMENT APPLICATION

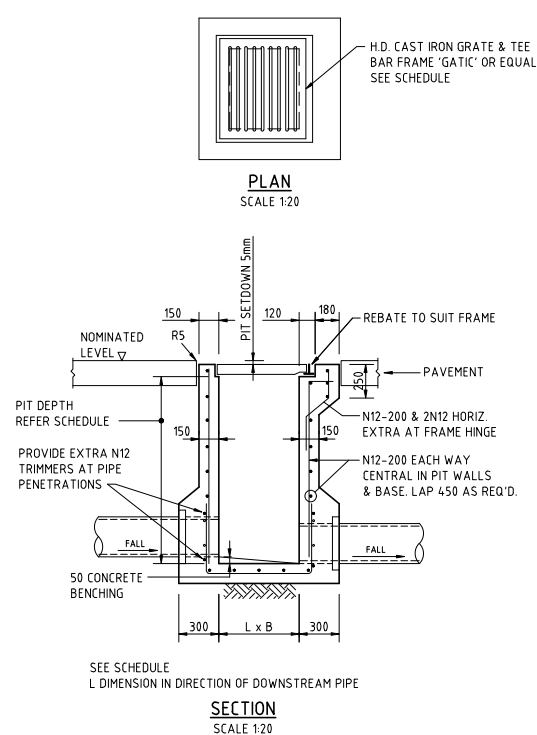
ISSUED FOR DEVELOPMENT APPLICATION				ARCHITECT				CLIENT				PROJECT				DRAWING TITLE			
AMENDMENTS				SB				Aliro				STATE SIGNIFICANT DEVELOPMENT APPLICATION				MUSIC CATCHMENT PLAN			
28.10.20				A				44 CLUNIES ROSS STREET, GREYSTANES				Level 1, 8 Windmill Street				BLACKTOWN CITY COUNCIL LGA			
DATE				ISSUE				DATE				CHECKED				DRAWING No			
AMENDMENTS				DATE				ISSUE				CNO REF:				C013251.06-DA43			
												DESIGNED				PRECISION COMMUNICATION ACCOUNTABILITY			
												DATE							
												SIZE							
												SCALE							
												AS SHOWN							
												CNO REF:							
												C013251.06-DA43							
												COSTIN ROE CONSULTING PTY LTD.							
												Consulting Engineers							
												Level 1, 8 Windmill Street							
												Wahah Bay, Sydney NSW 2000							
												Tel: (02) 9551-7889 Fax: (02) 9541-3721							
												email: mail@costinroe.com.au							



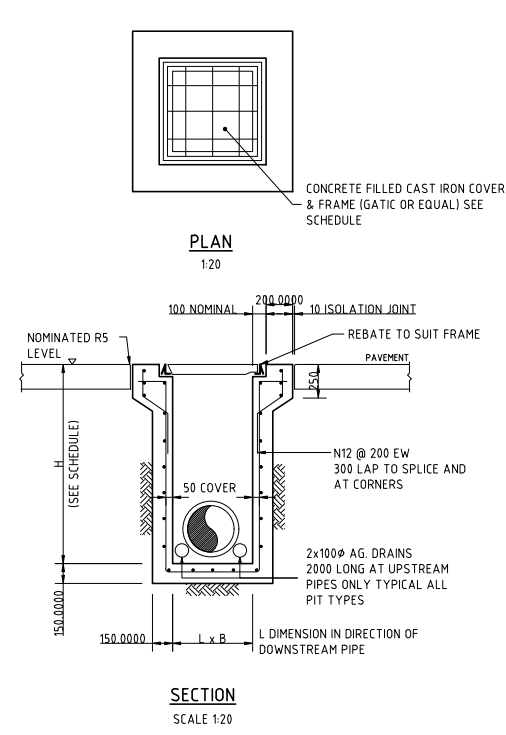
SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL
GRATE/COVER SUPPORT
CAST-INTO PAVEMENT SLAB
 (ADOPT IN CONCRETE PAVEMENT FOR SGGP's & SJP's, WHERE PITS ARE LOCATED IN THE CORNER OF SLAB PANELS OR ADJACENT TO SLAB PANEL JOINTS)



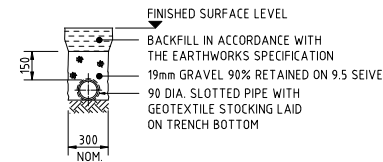
SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL
GRATE/COVER SUPPORT
CAST-INTO PAVEMENT SLAB
 (ADOPT IN CONCRETE PAVEMENTS FOR SGGP's & SJP's, WHERE JOINTS ARE NOT LOCATED WITHIN PROXIMITY OF THE GRATE)



SINGLE GRATED GULLY PIT - SGGP

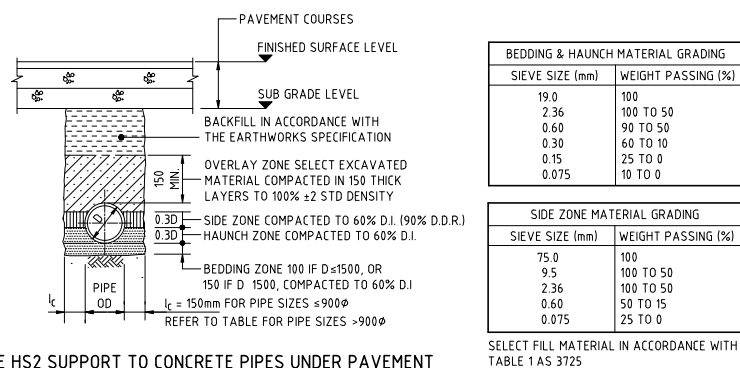


SEALED PIT - SJP

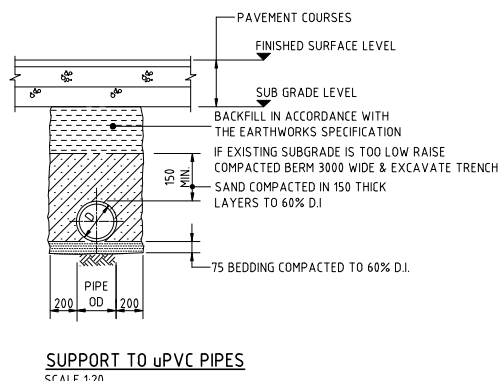


SUPPORT TO AGRICULTURAL DRAIN
 SCALE 1:20

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

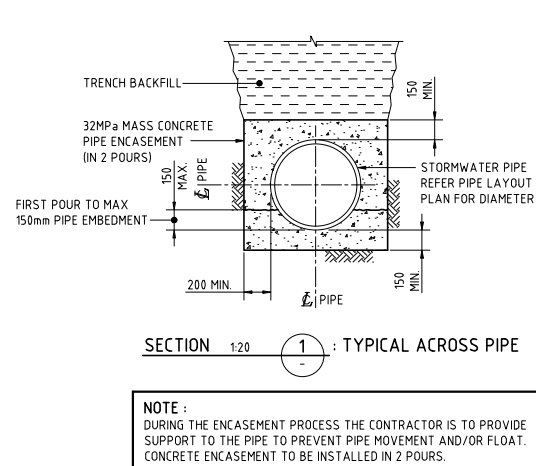


TYPE HS2 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT
 SCALE 1:20
 D ≤ 1350, MAX FILL = 4.0m
 D > 1350, MAX FILL = 3.0m

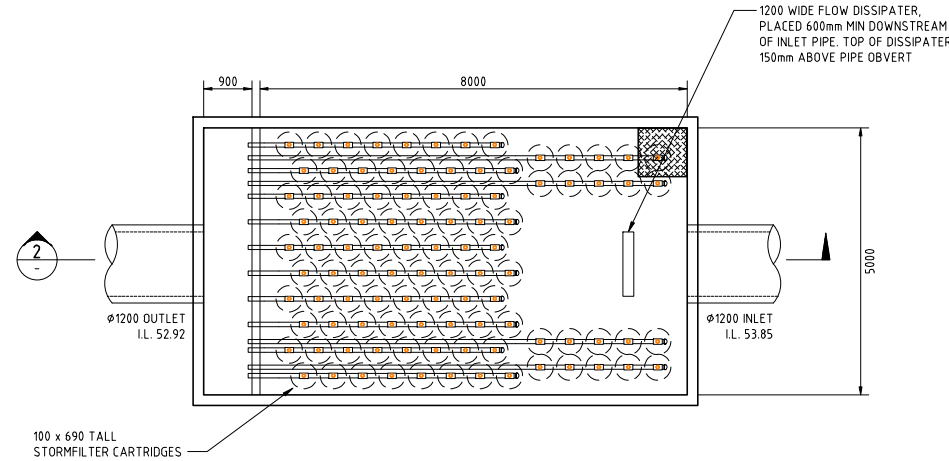


SUPPORT TO uPVC PIPES
 SCALE 1:20

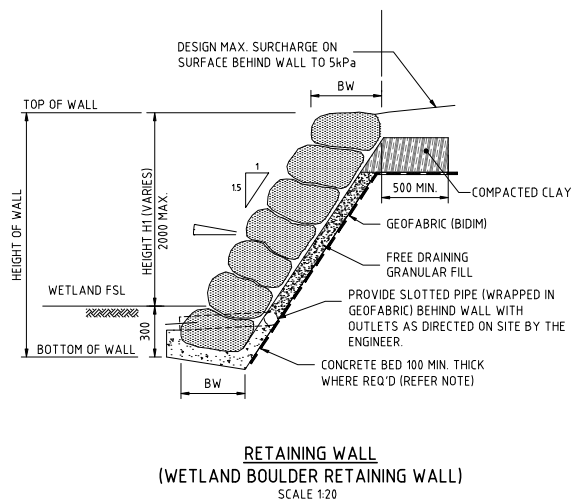
PIPE LAYING DETAILS
 SCALE 1:20



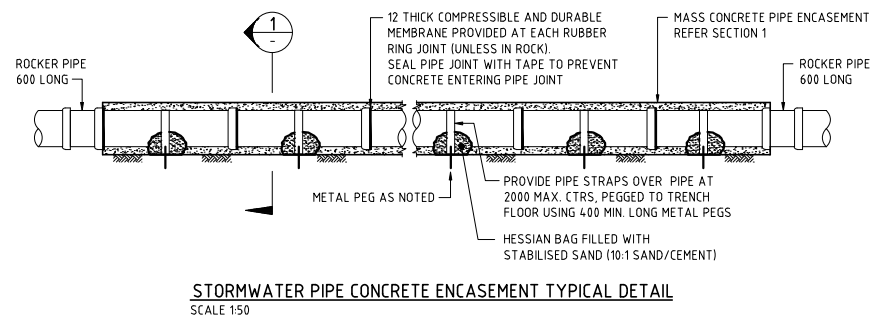
NOTE :
 DURING THE ENCASEMENT PROCESS THE CONTRACTOR IS TO PROVIDE SUPPORT TO THE PIPE TO PREVENT PIPE MOVEMENT AND/OR FLOAT. CONCRETE ENCASEMENT TO BE INSTALLED IN 2 POURS.



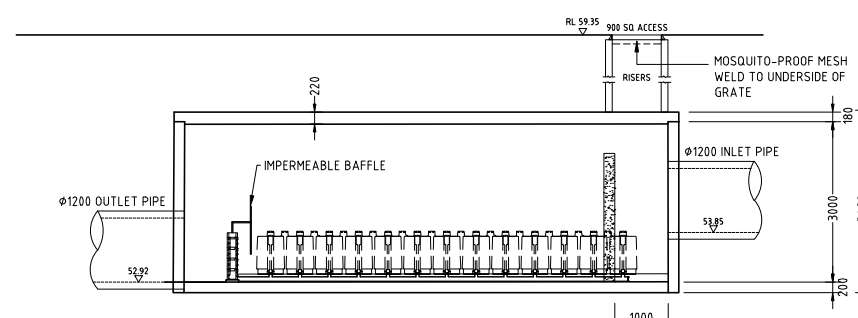
STORMWATER QUALITY DEVICE PLAN
 SCALE 1:50



RETAINING WALL
(WETLAND BOULDER RETAINING WALL)
 SCALE 1:20

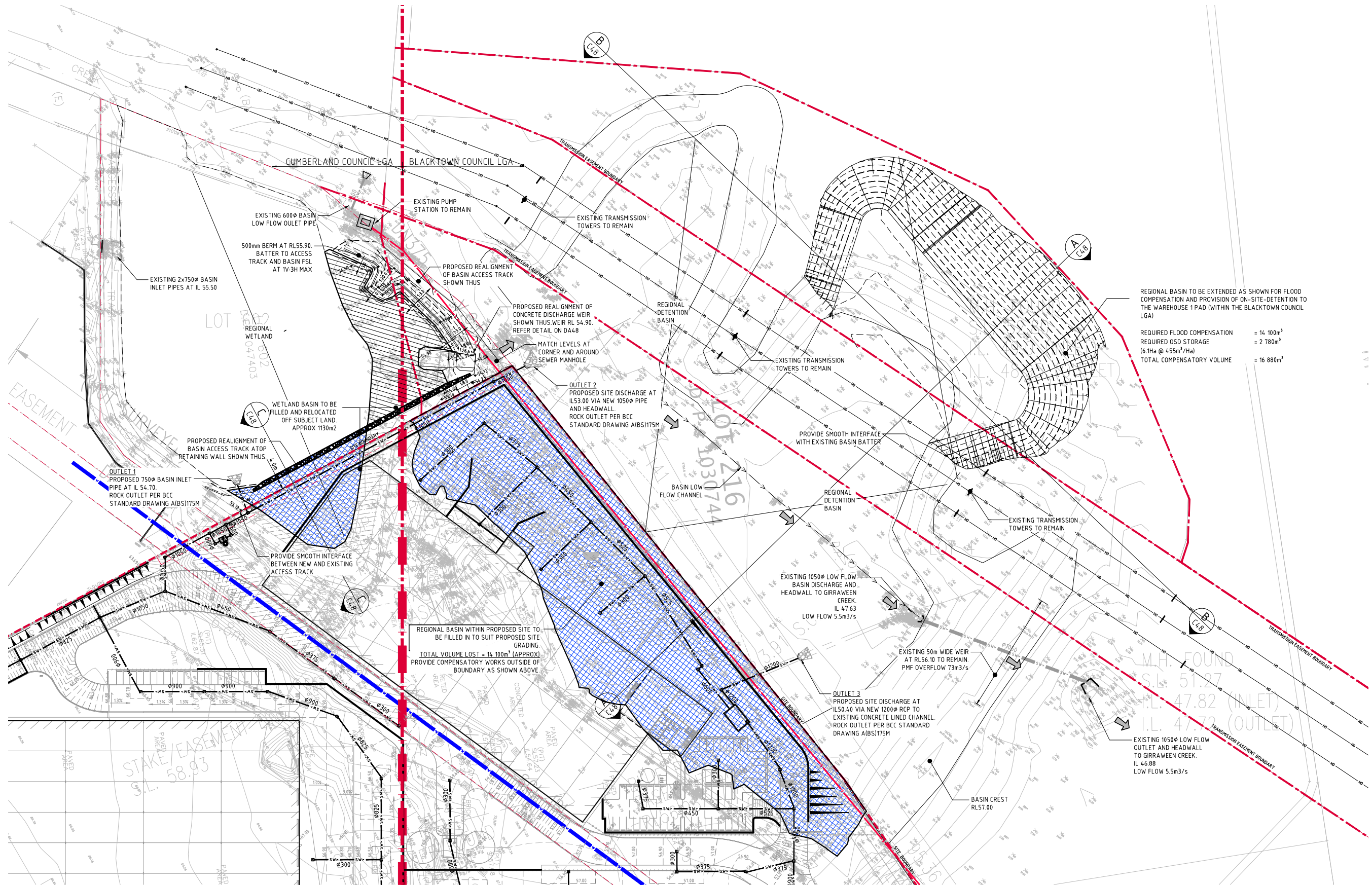


STORMWATER PIPE CONCRETE ENCASEMENT TYPICAL DETAIL
 SCALE 1:50



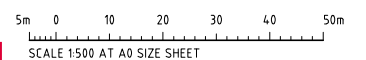
SECTION 2
 SCALE 1:50

FOR DEVELOPMENT APPLICATION

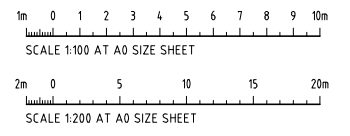
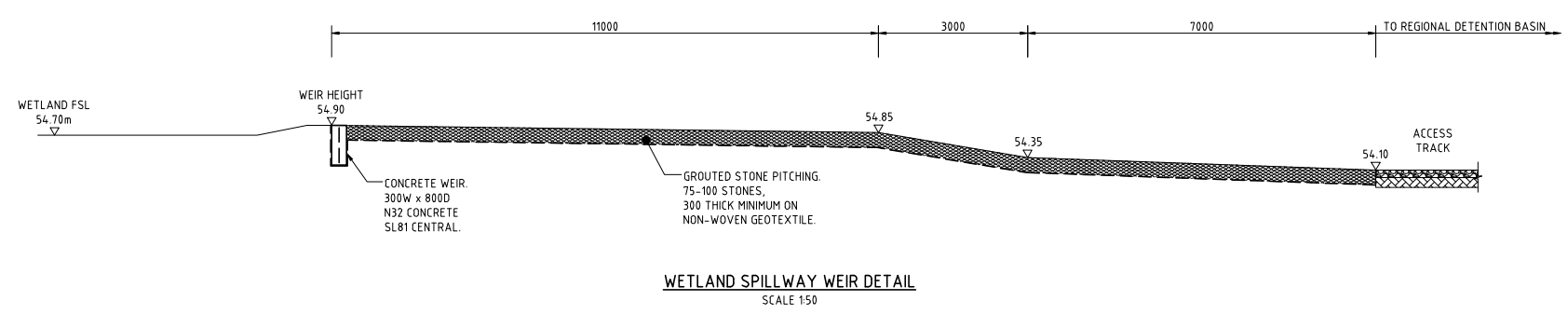
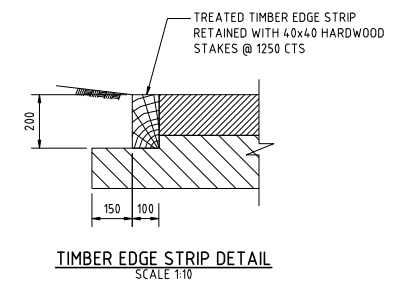
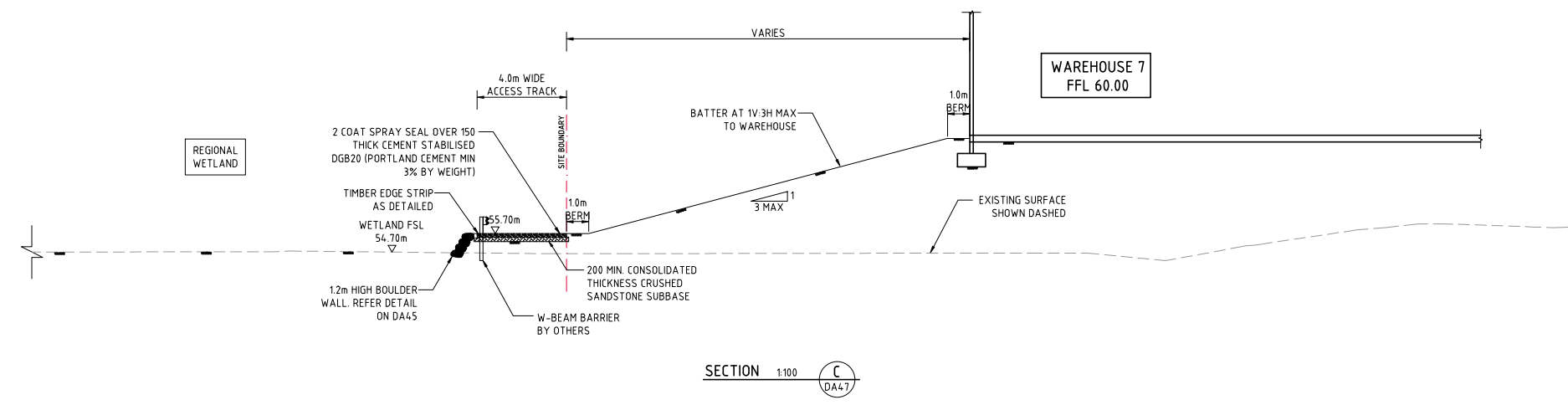
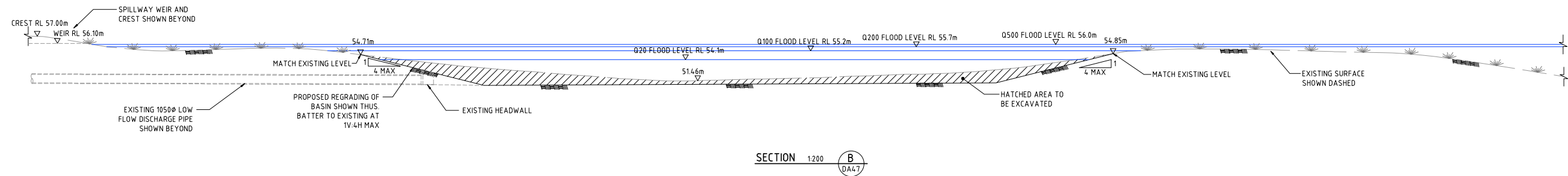
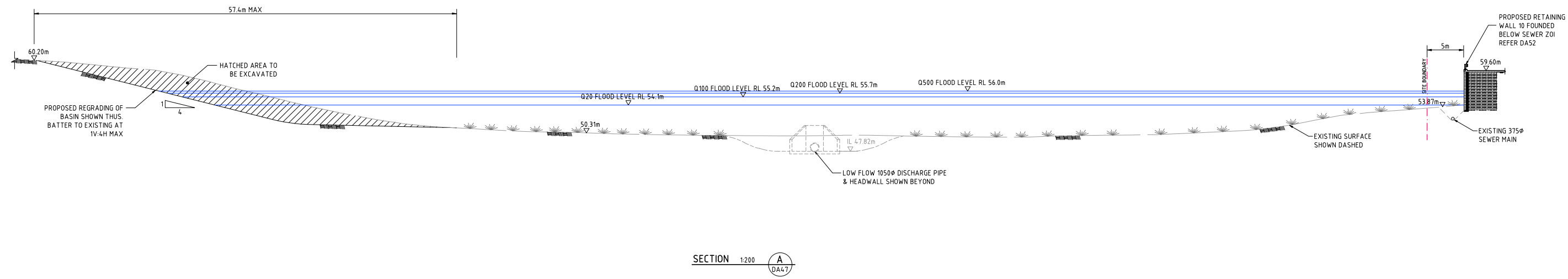


BASIN WORKS PLAN
SCALE 1:500

FOR DEVELOPMENT APPLICATION



ISSUED FOR DEVELOPMENT APPLICATION				ARCHITECT				CLIENT				PROJECT				Costin Roe Consulting Pty Ltd.			
ISSUED FOR INFORMATION				SB				Aliro				STATE SIGNIFICANT DEVELOPMENT APPLICATION				Consulting Engineers			
ISSUED FOR INFORMATION				44 CLUNIES ROSS STREET, GREYSTANES				Level 1, 8 Windmill Street, Wahah Bay, Sydney NSW 2000				Tel: (02) 9551-7889 Fax: (02) 9541-3721				email: mail@costinroe.com.au			
AMENDMENTS				PRECISION COMMUNICATION ACCOUNTABILITY				DRAWING TITLE				BASIN WORKS PLAN				DRAWING No			
												C013251.06-DA47				ISSUE			



FOR DEVELOPMENT APPLICATION

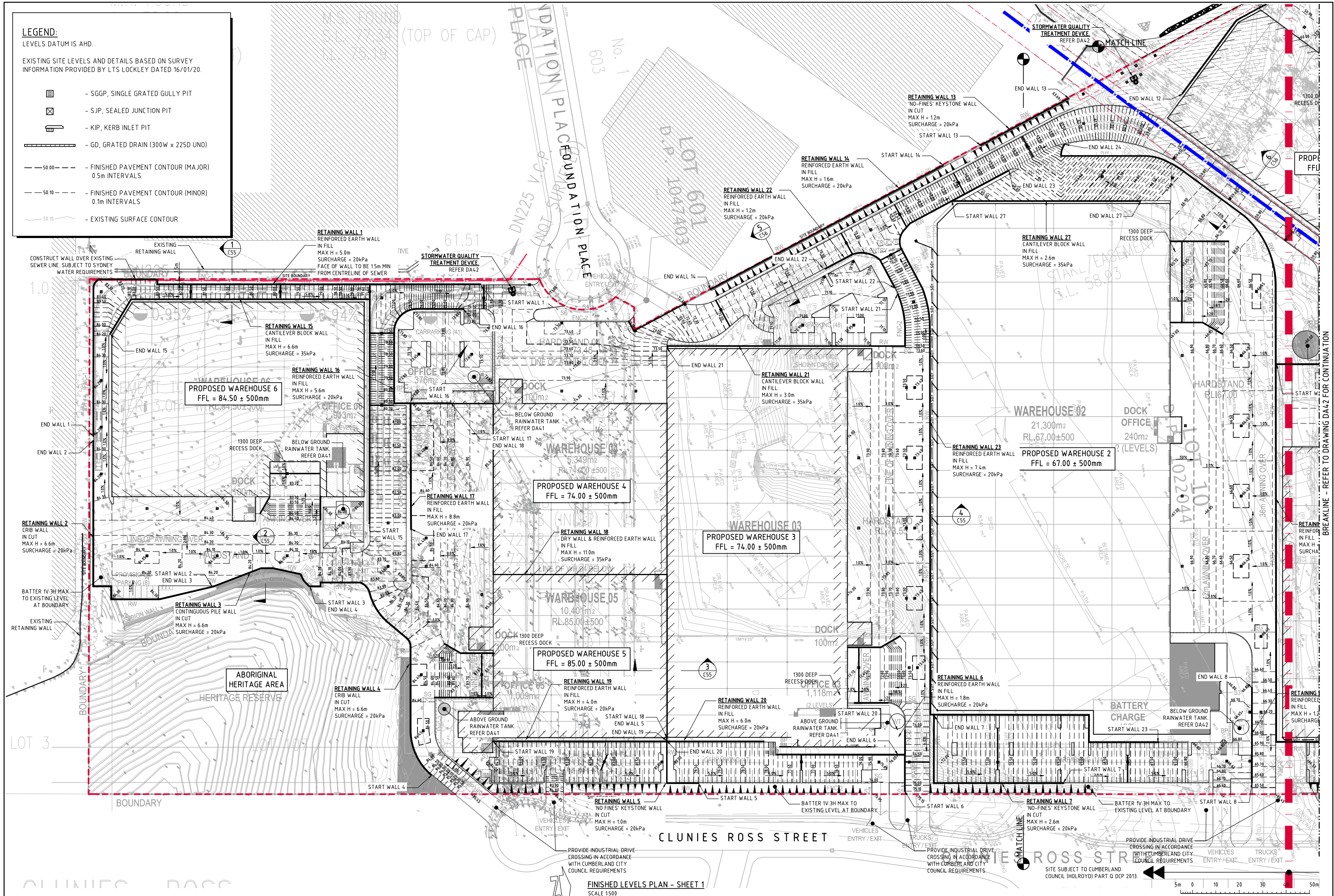
ISSUED FOR DEVELOPMENT APPLICATION			ARCHITECT			CLIENT			PROJECT			CONSULTING ENGINEERS			DRAWING TITLE		
ISSUED FOR INFORMATION			DATE			DATE			STATE SIGNIFICANT DEVELOPMENT APPLICATION			Costin Roe Consulting			BASIN SECTIONS		
AMENDMENTS			DATE			DATE			44 CLUNIES ROSS STREET, GREYSTANES			PRECISION COMMUNICATION ACCOUNTABILITY			DRAWING No		
									DESIGNED (DRAWN) DATE			C013251.06-DA48			C013251.06-DA48		
									10 10 MAR 20								
									CHECKED BY								
									10 10 MAR 20								
									SIZE								
									A0								
									SCALE								
									AS SHOWN								
									CNO REF								
									C013251.06-DA57								

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LTS LOCKLEY DATED 16/01/20.

- 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
- 50.10 --- EXISTING SURFACE CONTOUR



FINISHED LEVELS PLAN - SHEET 1
SCALE 1:500

FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION	28.01.21	E			
ISSUED FOR DEVELOPMENT APPLICATION	27.01.21	D			
ISSUED FOR DEVELOPMENT APPLICATION	09.06.20	C			
ISSUED FOR INFORMATION	22.04.20	B			
ISSUED FOR INFORMATION	13.03.20	A			
AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE



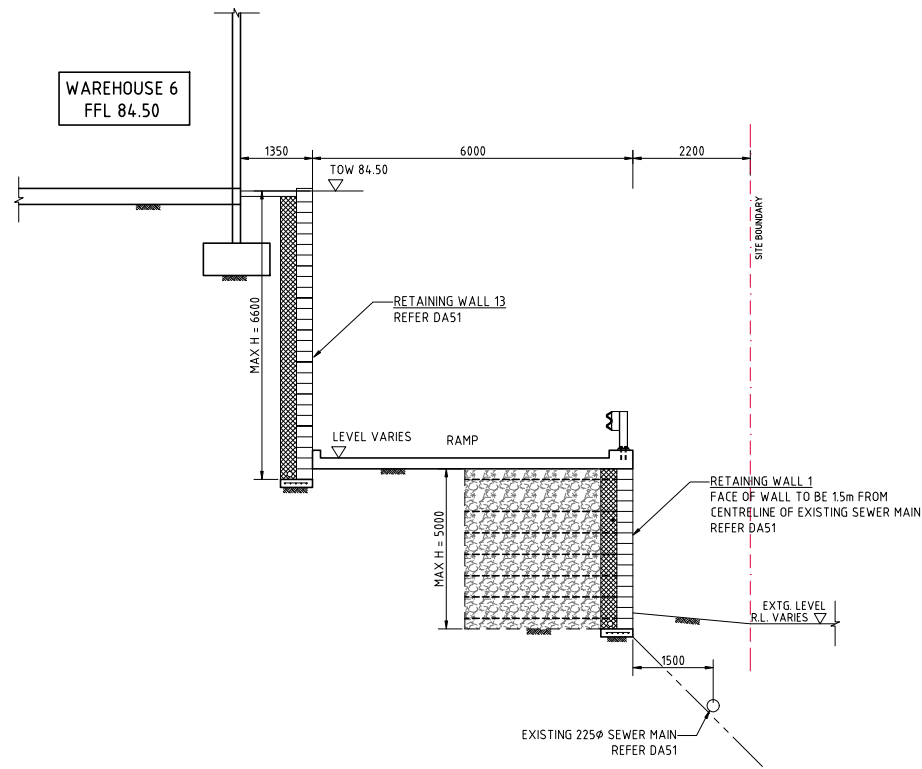
PROJECT
STATE SIGNIFICANT
DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES



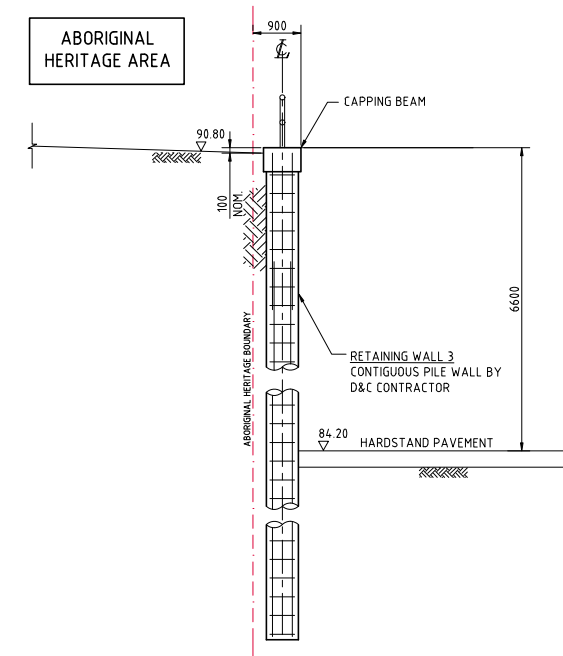
Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Wahia Bay, Sydney NSW 2000
Tel: (02) 9551-7899 Fax: (02) 9541-3721
email: mail@costinroe.com.au

PRECISION | COMMUNICATION | ACCOUNTABILITY

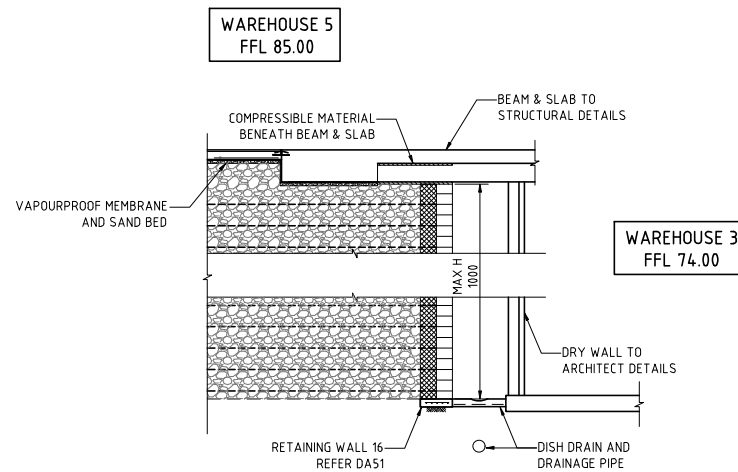
DRAWING TITLE	FINISHED LEVELS PLAN - SHEET 1
DRAWING NO.	C013251.06-DA51
ISSUE	E



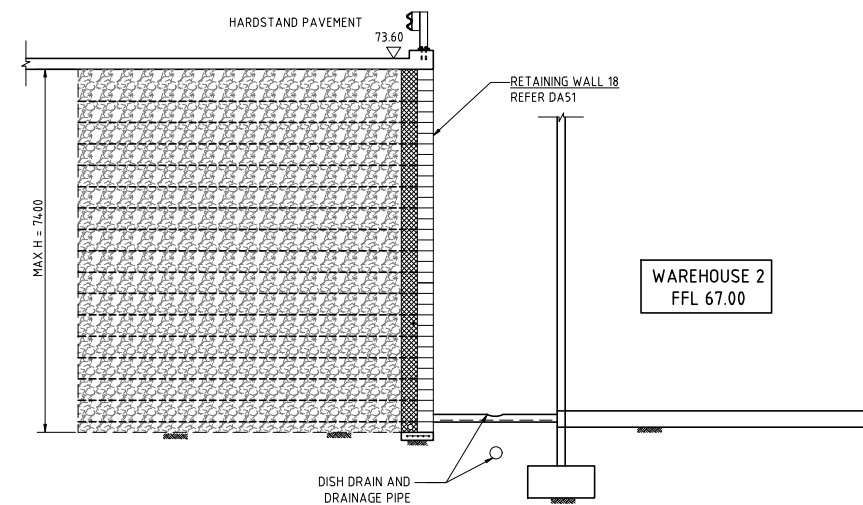
SECTION 150 1 DA51



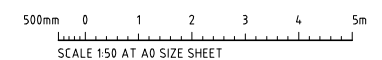
SECTION 150 2 DA51



SECTION 150 3 DA51

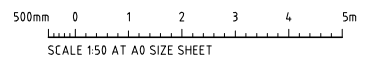
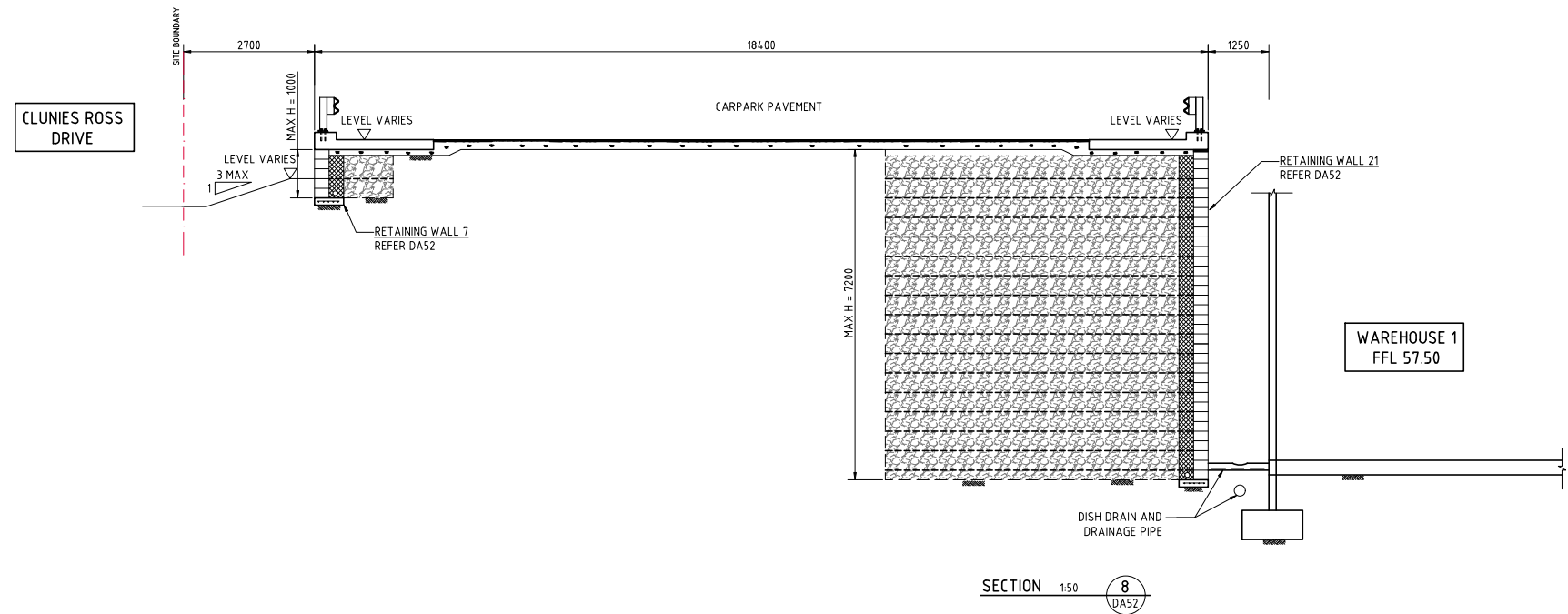
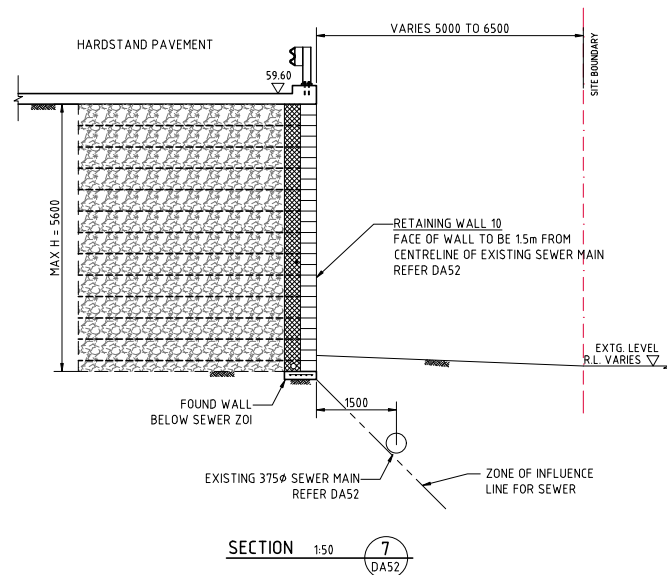
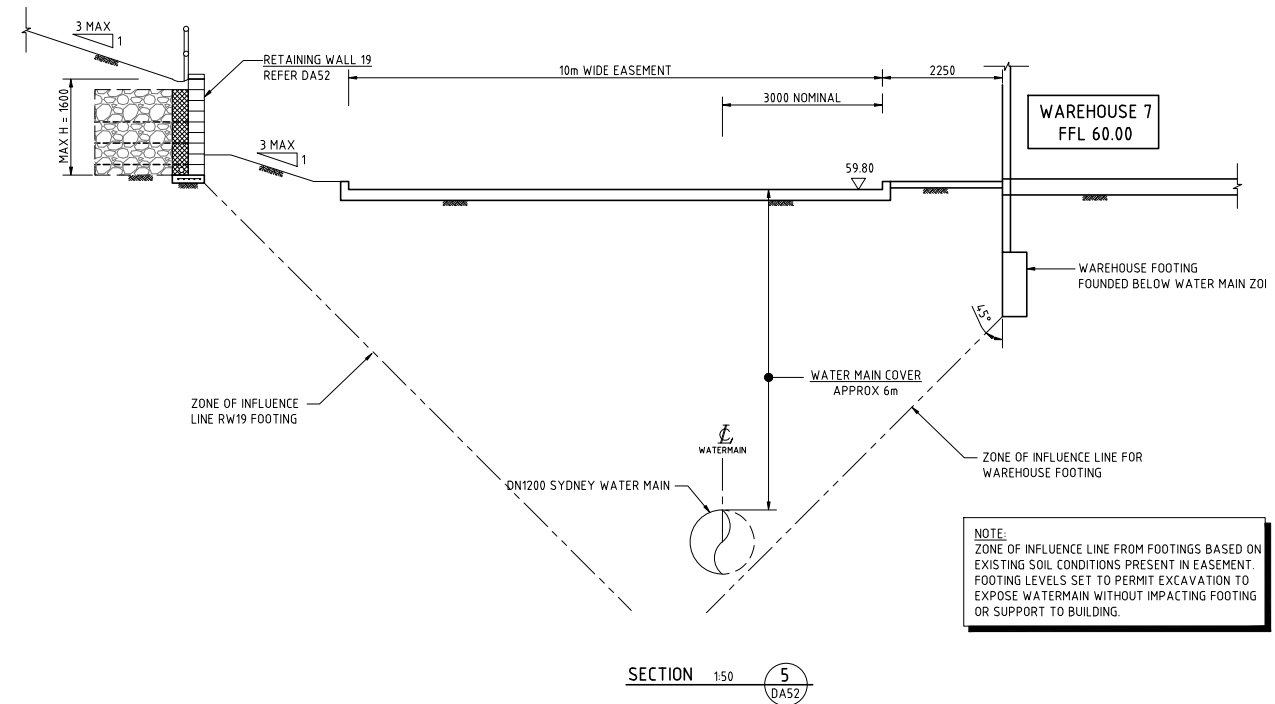
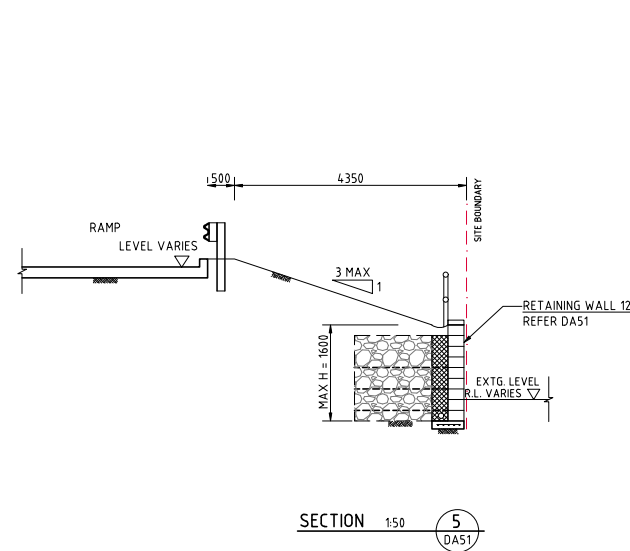


SECTION 150 4 DA51



FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION 03.06.20 B ISSUED FOR INFORMATION 13.03.20 A AMENDMENTS				ARCHITECT SBA ARCHITECTS Level 10, 81 Market Street, North Sydney NSW 2060 TEL: (02) 9550-7000 FAX: (02) 9550-7001 EMAIL: mail@costinroe.com.au				CLIENT Aliro				PROJECT STATE SIGNIFICANT DEVELOPMENT APPLICATION 44 CLUNIES ROSS STREET, GREYSTANES DESIGNED: [] DATE: [] CHECKED: [] SIZE: [] SCALE: [] NO. REV: []				COSTIN ROE CONSULTING PTY LTD. Consulting Engineers Level 1, 81 Windmill Street, Walsh Bay, Sydney NSW 2000 TEL: (02) 9550-7000 FAX: (02) 9550-7001 EMAIL: mail@costinroe.com.au				DRAWING TITLE TYPICAL SECTIONS SHEET 1				PRECISION COMMUNICATION ACCOUNTABILITY				DRAWING No. C013251.06-DA55				ISSUE B			
---	--	--	--	---	--	--	--	-----------------------------------	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	---	--	--	--	------------------------------------	--	--	--	----------------	--	--	--



FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION 03.06.20 B ISSUED FOR INFORMATION 13.03.20 A AMENDMENTS DATE ISSUE AMENDMENTS DATE ISSUE AMENDMENTS DATE ISSUE			ARCHITECT SBA STRUCTURE 44 CLUNIES ROSS STREET, GREYSTANES		CLIENT Aliro		PROJECT STATE SIGNIFICANT DEVELOPMENT APPLICATION 44 CLUNIES ROSS STREET, GREYSTANES		DESIGNED (DRAWN) DATE 10 MAR 20 CHECKED (PLW) 10 MAR 20 SIZE A0 SCALE AS SHOWN CAD REF: C013251.06-DA56		COSTIN ROE CONSULTING PTY LTD. Consulting Engineers Level 1, 8 Windmill Street Wahah Bay, Sydney NSW 2000 Tel: (02) 9551-7899 Fax: (02) 9541-3721 email: mail@costinroe.com.au		Costin Roe Consulting PRECISION COMMUNICATION ACCOUNTABILITY		DRAWING TITLE TYPICAL SECTIONS SHEET 2 DRAWING No C013251.06-DA56		ISSUE B	
--	--	--	---	--	-----------------------------------	--	---	--	--	--	--	--	---	--	--	--	----------------	--