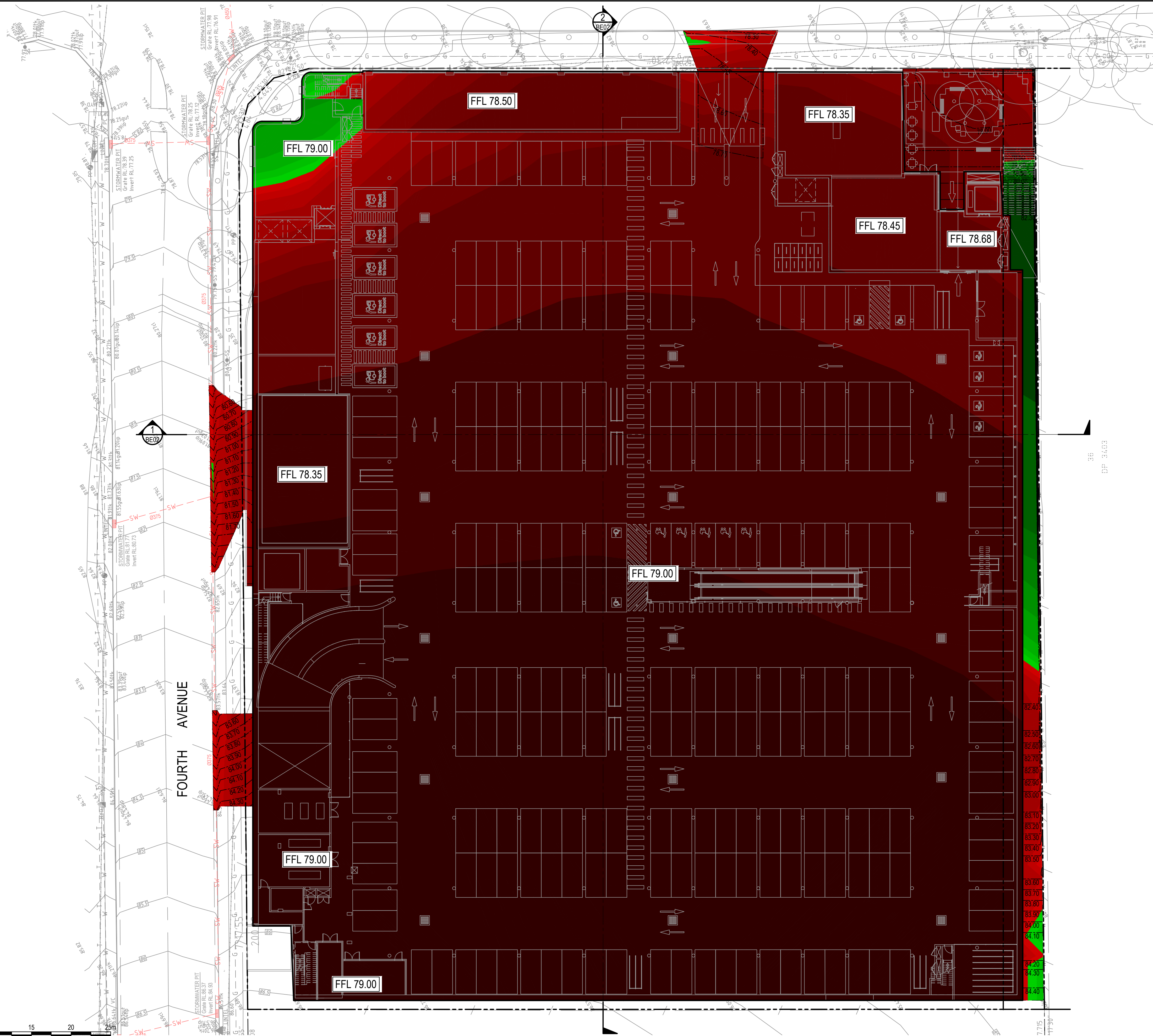
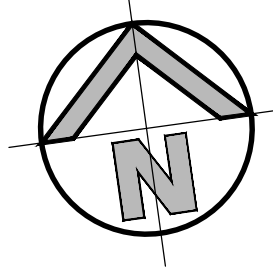




LEGEND

DEPTH OF CUT & FILL RANGE			COLOUR
LOWER VALUE	UPPER VALUE		
-8.00	to -4.00	m	
-4.00	to -2.00	m	
-2.00	to -1.00	m	
-1.00	to -0.80	m	
-0.80	to -0.60	m	
-0.60	to -0.40	m	
-0.40	to -0.20	m	
-0.20	to -0.10	m	
-0.10	to -0.05	m	
-0.05	to 0.00	m	
0.00	to 0.05	m	
0.05	to 0.10	m	
0.10	to 0.20	m	
0.20	to 0.40	m	
0.40	to 0.60	m	
0.60	to 0.80	m	
0.80	to 1.00	m	
1.00	to 2.00	m	
2.00	to 4.00	m	

LEGEND

115.60 CONTOURS BE

BULK EARTHWORKS QUANTITIES

TOTAL AREA (11755m²)	
CUT	40752 m²
FILL	255 m²
EXCESS OF CUT OVER FILL	40497 m²
EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION	
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION	
VOLUME HAS BEEN CALCULATED AFTER STRIPPING THE SITE OF TOPSOIL - ASSUMED TOPSOIL DEPTH 200mm. STRIPPED MATERIAL NOT INCLUDED IN ABOVE QUANTITIES	
220mm FOR PAVEMENT SET DOWNS	

SCALE 1:250

BULK EARTHWORKS CUT & FILL PLAN

SCALE: 1:250

FOR DA ONLY

SURVEY
INFORMATION
SURVEYED BY SDG

DATUM: A.H.D.
ORIGIN OF LEVELS: PM 56567, RL 90.074

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	IK	AM	19.11.2024					
02	ISSUED FOR DA ONLY	IK	AM	12.06.2024					
01	ISSUED FOR DA ONLY	AFe	AM	03.06.2024					

Client
FABCOT
Architect
i2C

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Project
**PROPOSED RETAIL DEVELOPMENT
495, FOURTH AVENUE, AUSTRAL NSW**

Title
BULK EARTHWORKS CUT & FILL PLAN

Drawn A.Fernandes	Designed N.Wetzlar	Original issue date JAN 2024
Checked A.Fernandes	Approved A.Fernandes	Scale (B/A) 1:250

Drawing number 231125_DA_BE01	Revision 03
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[illegible]



SCALE: N.T.S.

DRAWING SCHEDULE	
231125_DA_C000	COVER SHEET, DRAWING SCHEDULE AND LOCALITY SKETCH
231125_DA_C010	NOTES
231125_DA_C100	GENERAL ARRANGEMENT PLAN - GROUND
231125_DA_C101	DETAIL PLAN - GROUND - SHEET 1 OF 2
231125_DA_C102	DETAIL PLAN - GROUND - SHEET 2 OF 2
231125_DA_C110	GENERAL ARRANGEMENT PLAN - BASEMENT
231125_DA_C111	DETAIL PLAN - BASEMENT - SHEET 1 OF 2
231125_DA_C112	DETAIL PLAN - BASEMENT - SHEET 2 OF 2
231125_DA_C120	DRIVEWAY LONG SECTIONS
231125_DA_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
231125_DA_C201	STORMWATER MISCELLANEOUS DETAILS
231125_DA_C202	OSD AND WATER QUALITY, SECTIONS AND DETAILS - SHEET 1 OF 2
231125_DA_C203	OSD AND WATER QUALITY, SECTIONS AND DETAILS - SHEET 2 OF 2
231125_DA_C250	PRE - DEVELOPMENT CATCHMENT PLAN
231125_DA_C251	POST - DEVELOPMENT CATCHMENT PLAN
231125_DA_SE01	SEDIMENT AND EROSION CONTROL PLAN
231125_DA_SE02	SEDIMENT AND EROSION CONTROL DETAILS
231125_DA_BE01	BULK EARTHWORKS CUT & FILL PLAN
231125_DA_BE02	BULK EARTHWORKS SECTIONS

FOR DA ONLY

[illegible]

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S SPECIFICATION, CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS AND MARRY IN A 'WORKMANLIKE' MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. H & H CONSULTING ENGINEERS PTY LTD CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND LIVERPOOL CITY COUNCIL'S REQUIREMENTS WHERE APPLICABLE.
9. CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING 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.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A DIAL BEFORE YOU DIG SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 080 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

1. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
2. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
3. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

3. DATUM: A.H.D.
2. ORIGIN OF LEVELS : REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
3. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
5. EXISTING SERVICES UNLESS SHOWN ON THE SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
6. WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
9. CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
10. MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
11. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS
OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING
TO DEVELOPMENT AT THE SITE.
14. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
15. ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 800 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
16. GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN. GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
17. ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

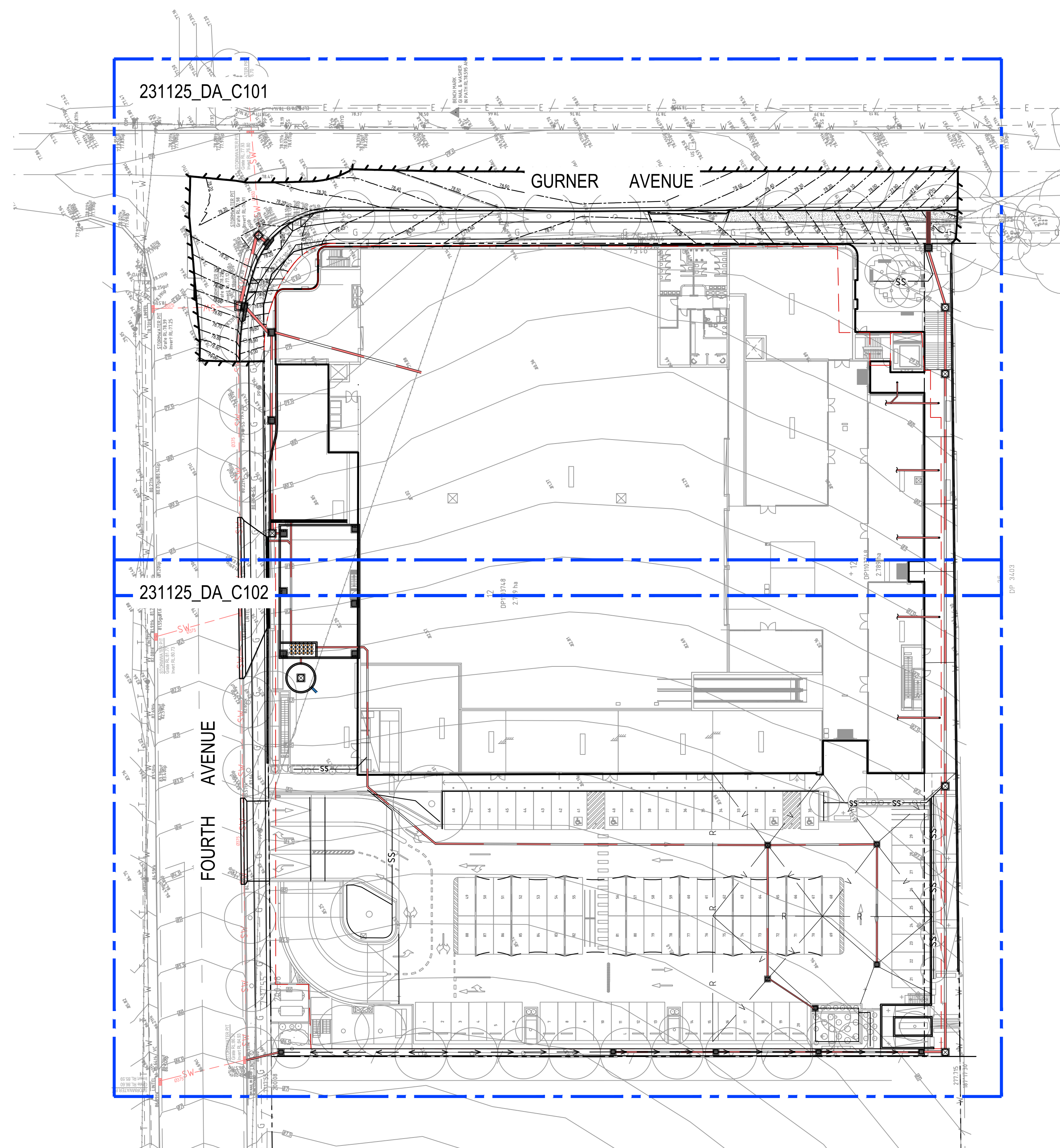
- REFER TO GEOTECHNICAL INVESTIGATION REPORT OR INFORMATION RELATING TO EXISTING GROUND CONDITIONS, SITE TREATMENT AND SUPERVISION. REPORT BY GEOTEKSTA REFERENCE NUMBER NE996 DATED NOVEMBER 2021 AND ALL RELEVANT PRECEDING REPORTS.
2. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
3. HENRY AND HYMAS PTY LTD CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION. FOR COMMENCEMENT OF WORKS ON SITE, SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
4. ALL SERVICES ARE TO BE LOCATED AND CUT OFF PRIOR TO THE COMMENCEMENT OF EXCAVATION AND FILLING OPERATIONS.
5. ALL TOP SOIL, ORGANIC MATTER AND FILL MATERIAL SHALL BE REMOVED FROM ALL AREAS UNDER BUILDING AND CARPARK LOCATIONS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. AREAS TO BE FULLY STRIPPED OF EXISTING FILL AND DARK BROWN BLACK UPPER ORGANIC ALLUVIUM, OR OBVIOUS UNSUITABLE MATERIAL.
6. EXCAVATE TO ACHIEVE SUBGRADE LEVELS WHERE NECESSARY.
7. THE EXPOSED SUBGRADE AFTER STRIPPING AND/ OR EXCAVATION IS TO BE PROOF ROLLED USING NOT FEWER THAN 8 PASSES OF A MINIMUM 12 TONNE DEAD WEIGHT SMOOTH DRUM ROLLER UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER OR AN EXPERIENCED CIVIL ENGINEER. ANY AREAS ON THE SUBGRADE EXHIBITING EXCESSIVE DEFLECTION / MOVEMENT UNDER ROLLER TO BE EXCAVATED TO A MIN. DEPTH OF 0.5m AND REPLACED WITH APPROVED GRANULAR MATERIAL COMPACTED IN 250mm LOOSE LAYERS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
8. ENGINEERED FILL FOR REPLACEMENT OF SOFT OR HEAVING AREAS OR FOR BULK FILLING TO COMPRISE ESSENTIALLY OF GRANULAR MATERIALS (E.G. EXCAVATED SHALE), WITH A PARTICLE SIZE NOT GREATER THAN 75mm DIAMETER. ENGINEERED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO 100% OF STANDARD MAXIMUM DRY DENSITY (SMD) WITHIN $\pm 2\%$ OF OPTIMUM MOISTURE CONTENT (OMC).
9. IMPORTED FILLING (IF REQUIRED) IS TO BE TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO NOMINATE THE SOURCE AND PROVIDE A SAMPLE FOR APPROVAL PRIOR TO IMPORTATION AND PLACEMENT ON SITE.
10. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING.
FREE FORM ORGANIC AND PERISHABLE MATTER
MAXIMUM PARTICLE SIZE = 75mm
MAXIMUM PLASTICITY INDEX = 15%
MIN CBR 5%

ALL IMPORTED FILL MATERIAL SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FROM GEOTECH REPORT BY GEOTEKSTA REFERENCE NUMBER NE996 DATED NOVEMBER 2021 AND ALL RELEVANT PRECEDING REPORTS.

ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH GEOTECH REPORT BY GEOTEKSTA REFERENCE NUMBER NE996 DATED NOVEMBER 2021 AND ALL RELEVANT PRECEDING REPORTS.
12. IN-SITU DENSITY TESTING AND SUPERVISION MUST BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED WITHIN GEOTECH REPORT BY GEOTEKSTA REFERENCE NUMBER NE996 DATED NOVEMBER 2021 AND ALL RELEVANT PRECEDING REPORTS.

1. PREPARATION FOR PAVEMENT: CLEAR SITE, STRIP TOP-SOIL, CUT AND FILL AND PREPARATIONS OF SUB-GRADE SHALL BE AS DESCRIBED IN "SUBGRADE PREPARATION - SITEWORKS".
2. SUB-GRADE SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT $\pm 2\%$ IN ACCORDANCE WITH AS 1289 5.1.1, TOP 300MM TO 100% SDD.
3. FOR A SAND SUBGRADE, COMPACTION SHALL BE TO MIN.90% DENSITY INDEX AS PER AS1289 E6.1
4. LOWER BASE COURSE SHALL BE CONSTRUCTED FROM CRUSHED ROCK COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT $\pm 2\%$ IN ACCORDANCE WITH AS 1289 5.1.1. OF THICKNESS NOTED ON DRAWINGS.
5. BASE COURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT $\pm 2\%$ IN ACCORDANCE WITH AS 1289 5.1.1 OF THICKNESS NOTED ON DRAWINGS.
6. WEARING SURFACE SHALL BE ASPHALTIC CONCRETE TO STANDARD SPECIFICATION
7. TESTING OF THE SUBGRADE AND PAVEMENT LAYERS SHALL BE CARRIED OUT BY APPROVED N.A.T.A. REGISTERED LABORATORY

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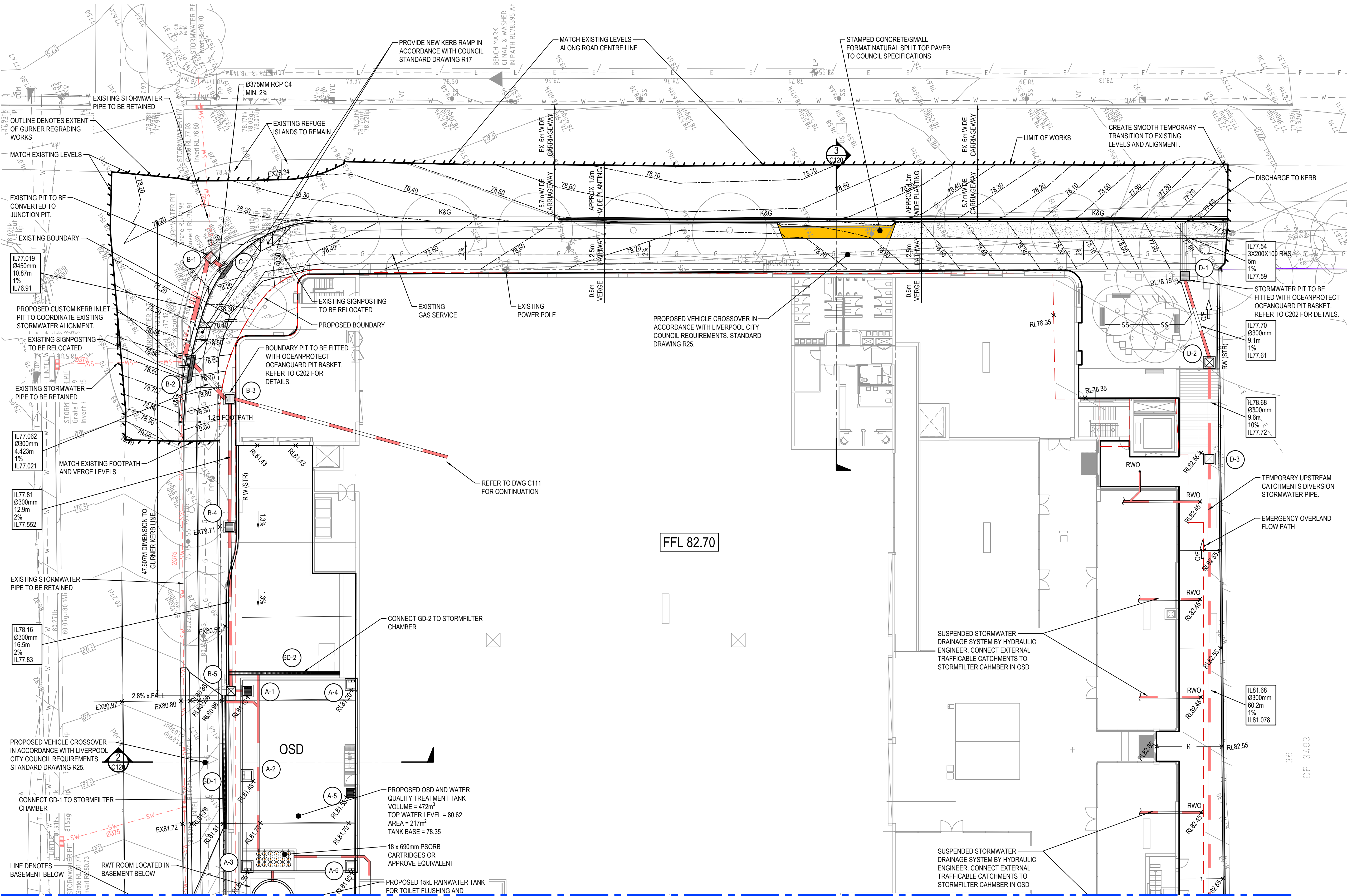
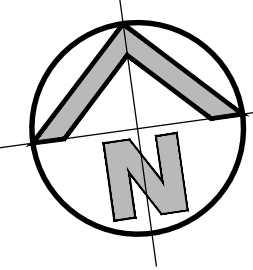


SCALE: 1:400



FOR DA ONLY

[illegible]



LEGEND

- EXISTING BOUNDARY
- PROPOSED LIMIT OF WORK
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED PIT TAG
- STORMWATER UPSTREAM INVERT RL
- STORMWATER PIPE DIAMETER & CLASS
- STORMWATER PIPE LENGTH
- STORMWATER PIPE GRADE
- STORMWATER DOWNSTREAM INVERT RL
- PROPOSED GRATED DRAIN
- PROPOSED STORMWATER PIPE
- PROPOSED RHS
- PROPOSED ROAD
- PROPOSED CONTOURS
- EXISTING CONTOURS
- EXISTING SPOT LEVEL
- PROPOSED SPOT LEVEL
- EXISTING SPOT LEVEL
- PROPOSED KERB & GUTTER
- PROPOSED KERB ONLY
- PROPOSED RETAINING WALL BY STRUCTURAL
- PROPOSED SUBSOIL DRAINAGE
- EXISTING GAS LINE
- EXISTING TELSTRA LINES
- EXISTING WATER LINE
- EXISTING STORMWATER LINE
- EXISTING PIT
- PROPOSED RAINWATER OUTLET
- PROPOSED OVERLAND FLOW PATH

FOR CONTINUATION REFER TO DWG. 231125_DA_C102

DETAIL PLAN - GROUND

SCALE: 1:200

FOR DA ONLY

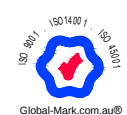
SURVEY INFORMATION
SURVEYED BY SDG
DATUM: AHD
ORIGIN OF LEVELS: PM 56567, RL 90.074

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	MB	NW	19.11.2024					
02	ISSUED FOR DA ONLY	MB	AM	11.06.2024					
01	ISSUED FOR DA ONLY	AFe	AM	03.06.2024					

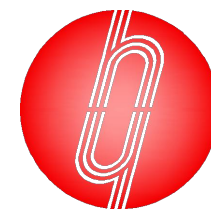
Client
FABCOT
Architect
i2C

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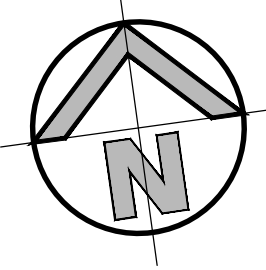


Project
**PROPOSED RETAIL DEVELOPMENT
495, FOURTH AVENUE, AUSTRAL NSW**

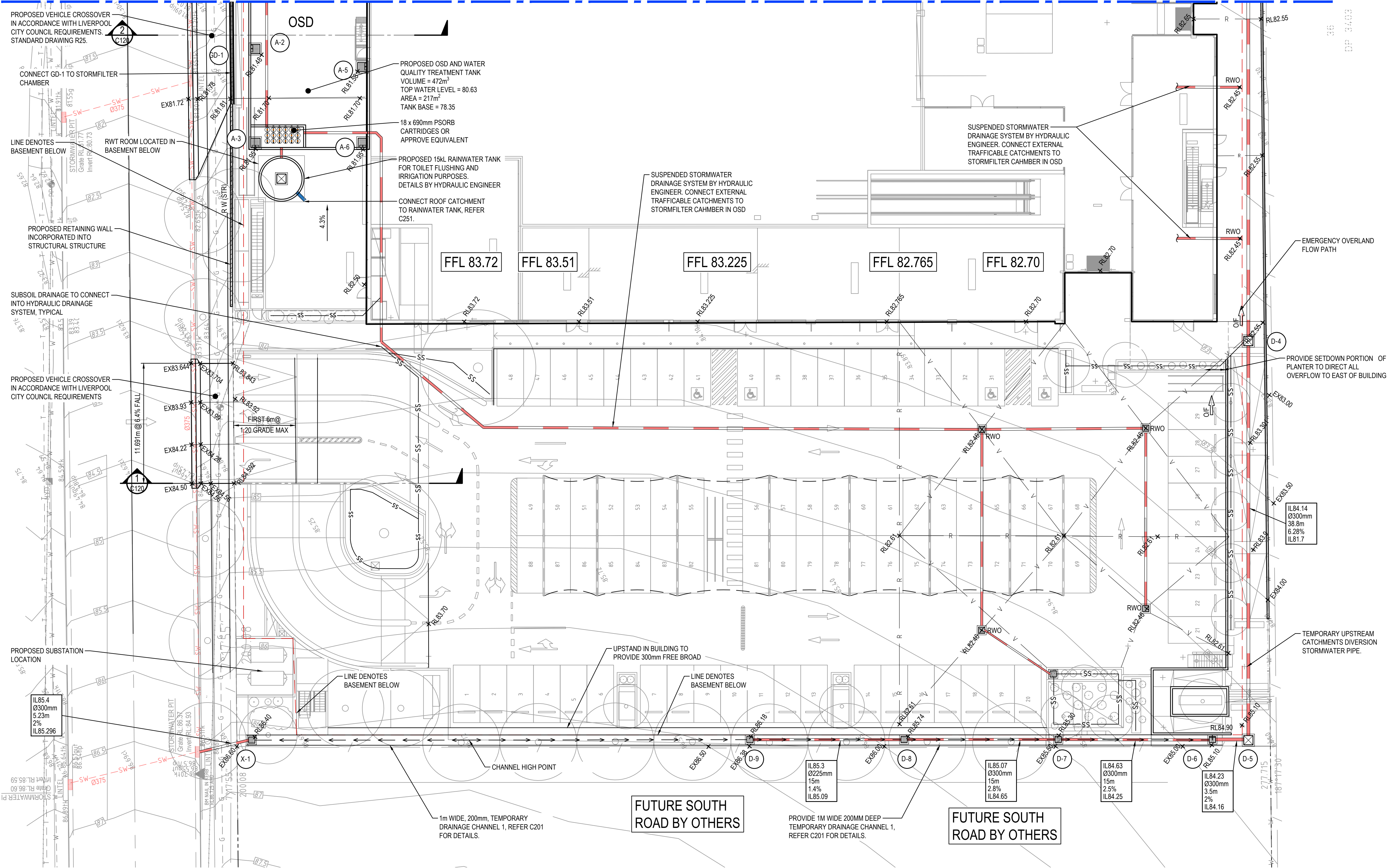
Title
**DETAIL PLAN - GROUND
SHEET 1 OF 2**

Drawn M.Pereira	Designed N.Wetzlar	Original issue date AUGUST
Checked A.Francis	Approved A.Francis	Scale (B1) 1:200

Drawing number 231125_DA_C101	Revision 03
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FOR CONTINUATION REFER TO DWG. 231125_DA_C101



LEGEND

- EXISTING BOUNDARY
- PROPOSED LIMIT OF WORK
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
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- EXISTING TELSTRA LINES
- EXISTING WATER LINE
- EXISTING STORMWATER LINE
- EXISTING PIT
- PROPOSED RAINWATER OUTLET
- PROPOSED OVERLAND FLOW PATH

DETAIL PLAN - GROUND

SCALE: 1:200

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY SDG
DATUM: A.H.D.
ORIGIN OF LEVELS: PM 56567, RL 90.074

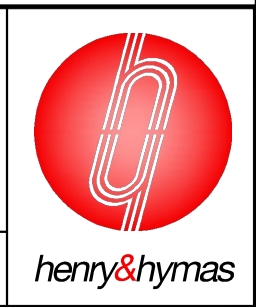
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	AFe	NW	19.11.2024					
02	ISSUED FOR DA ONLY	MB	AM	11.06.2024					
01	ISSUED FOR DA ONLY	AFe	AM	03.06.2024					

Client
FABCOT
Architect
i2C

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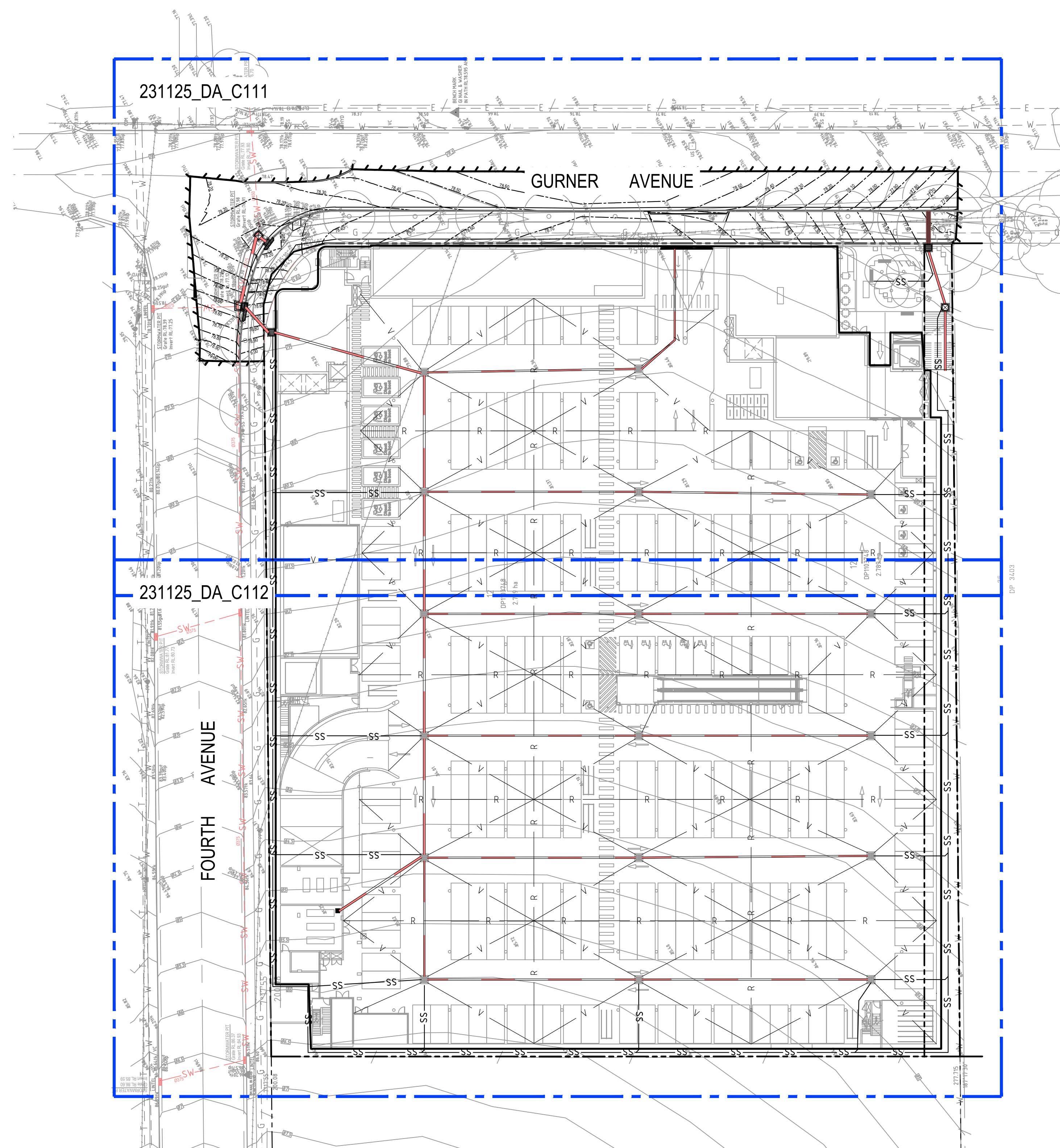
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Project
**PROPOSED RETAIL DEVELOPMENT
495, FOURTH AVENUE, AUSTRAL NSW**
Title
**DETAIL PLAN - GROUND
SHEET 2 OF 2**

Drawn A.Fernandes	Designed N.Wetzlar	Original issue date JAN 2024
Checked A.Fernandes	Approved A.Fernandes	Scale @A1 1:200
Drawing number 231125_DA_C102	Revision 03	

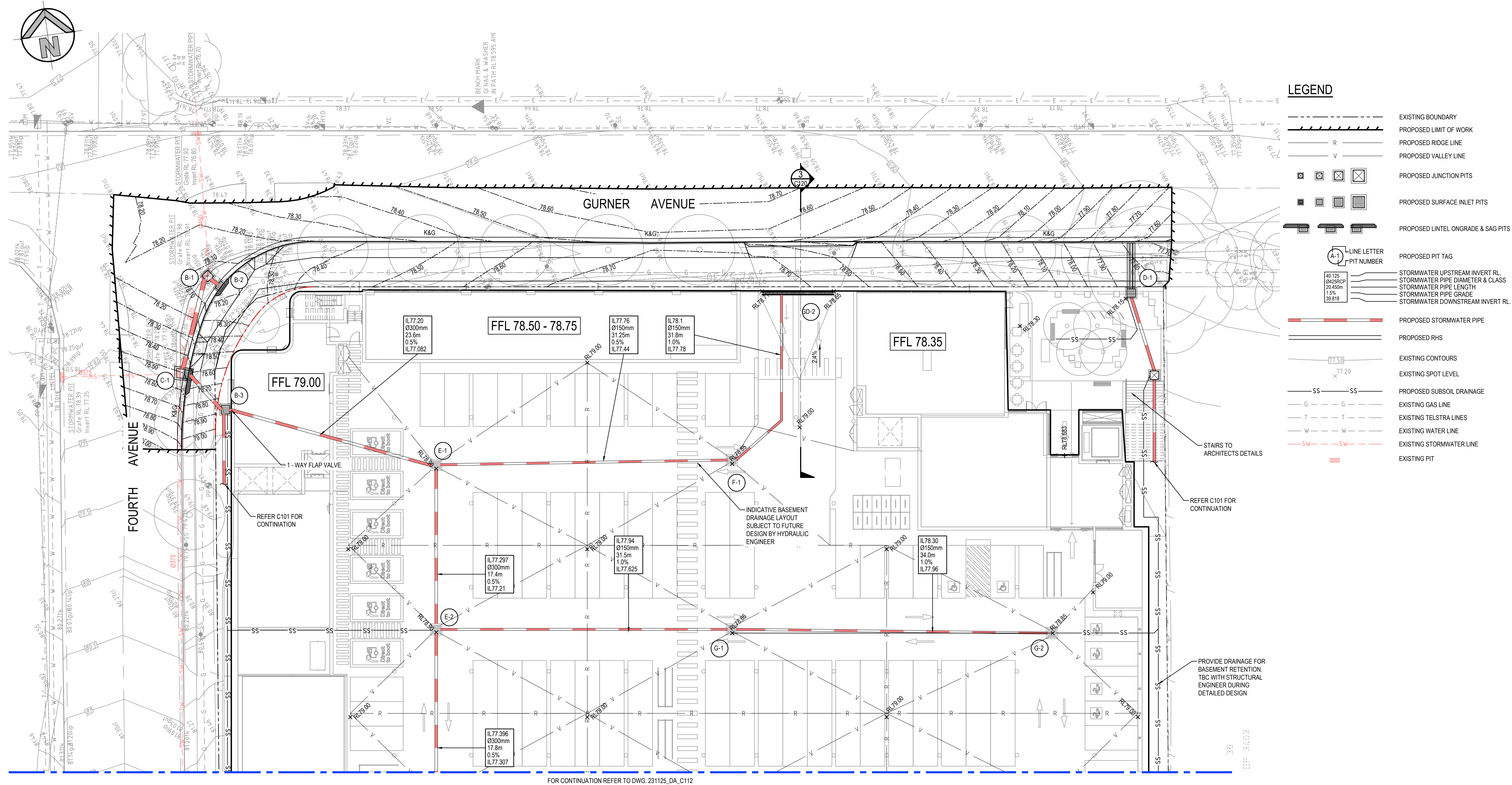


SCALE: 1:400



FOR DA ONLY

SURVEY INFORMATION SURVEYED BY SDG DATUM: A.H.D. ORIGIN OF LEVELS: PM 56567, RL 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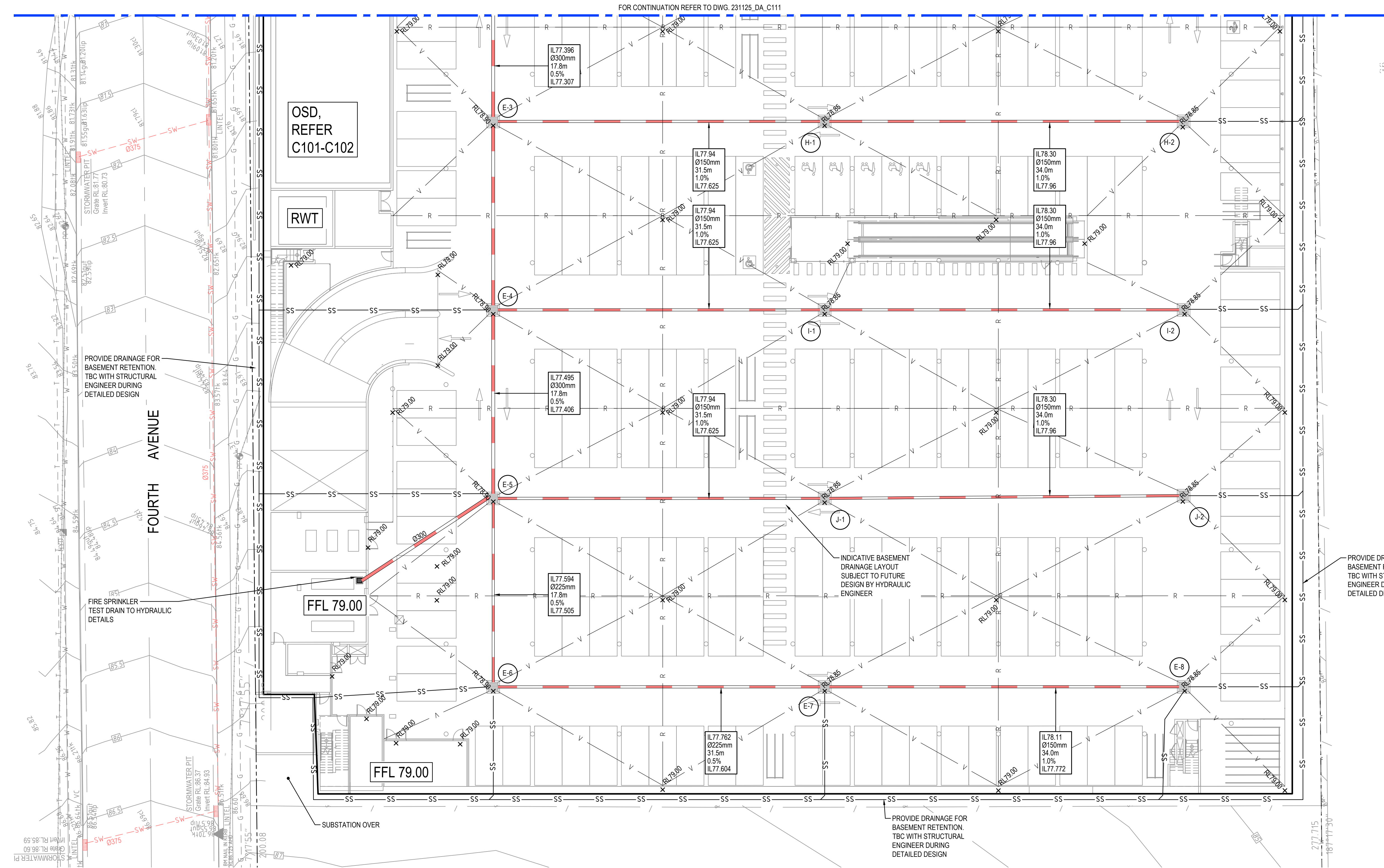


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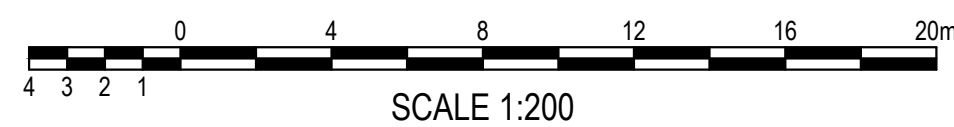


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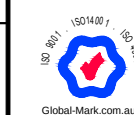
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Client	FABCOT
Architect	i2C

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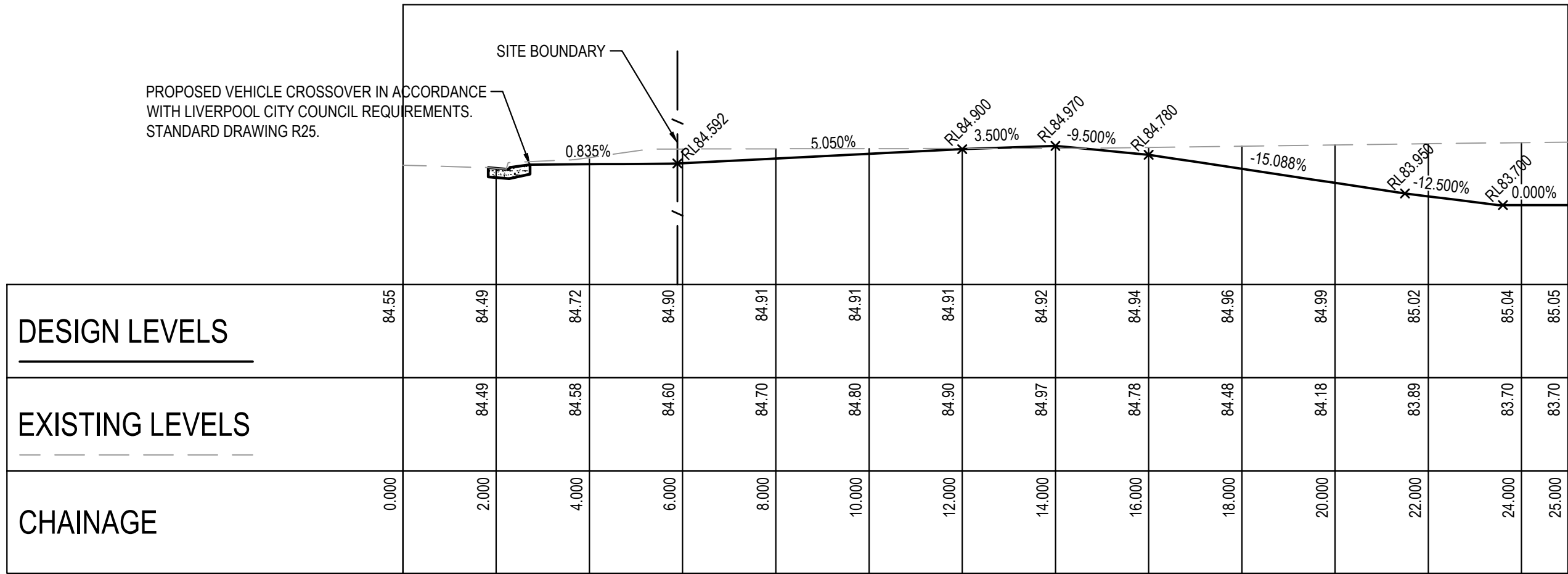
Project	PROPOSED RETAIL DEVELOPMENT 495, FOURTH AVENUE, AUSTRAL NSW
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DETAIL PLAN - BASEMENT
SHEET 2 OF 2

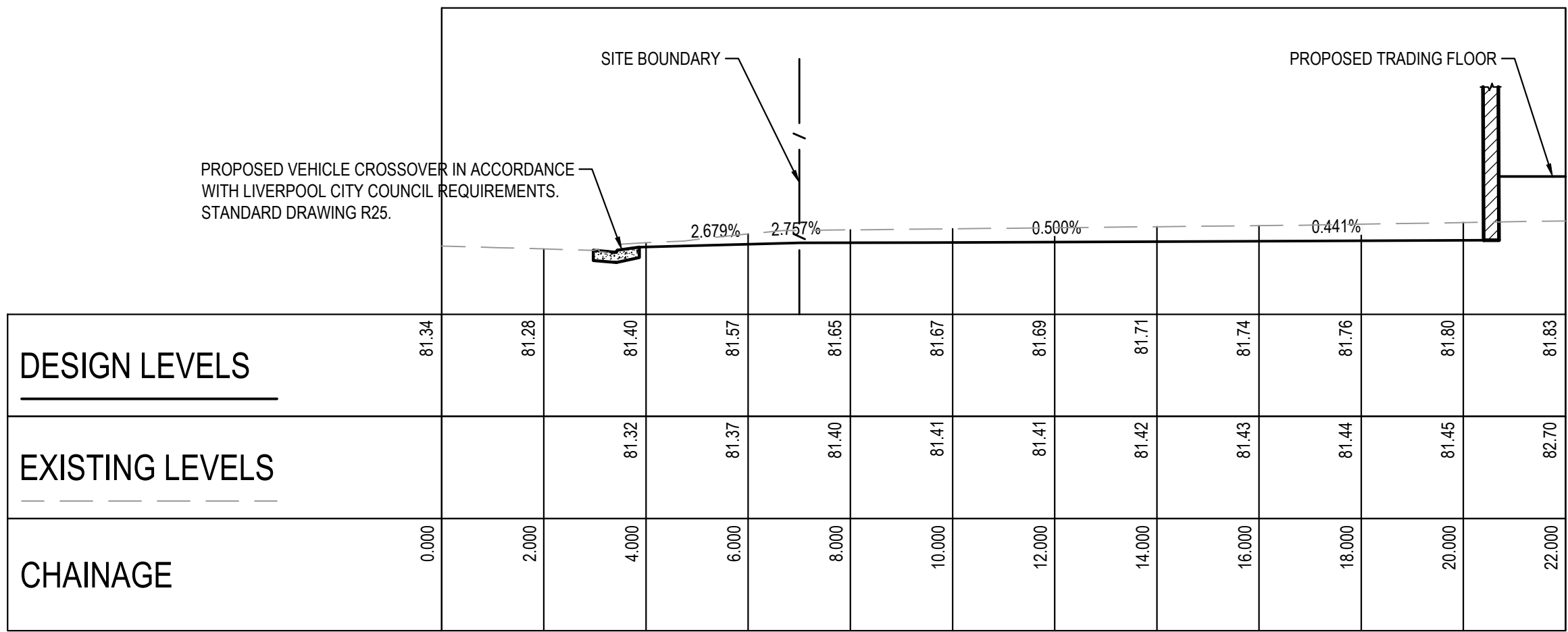
Drawn A.Fernandes	Designed N.Wetzlar	Original issue date JAN 2024
Checked A.Francis	Approved A.Francis	Scale @A1 1:200

231125_DA_C112	03
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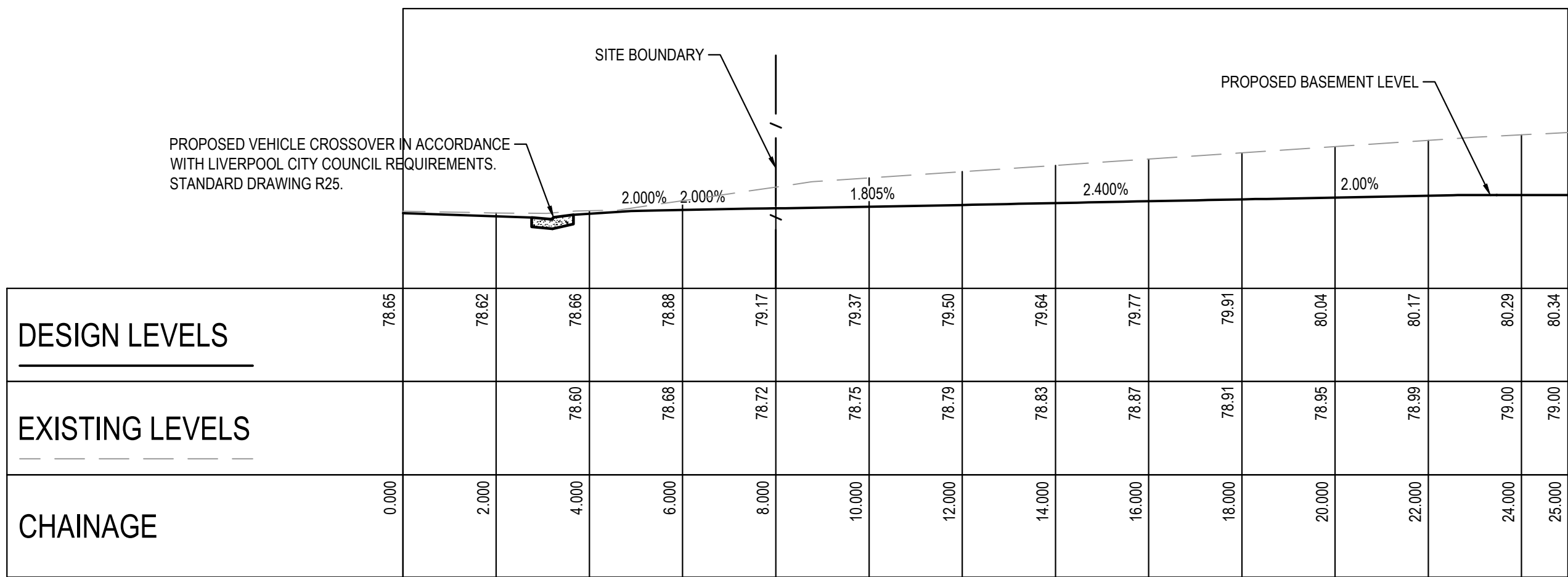
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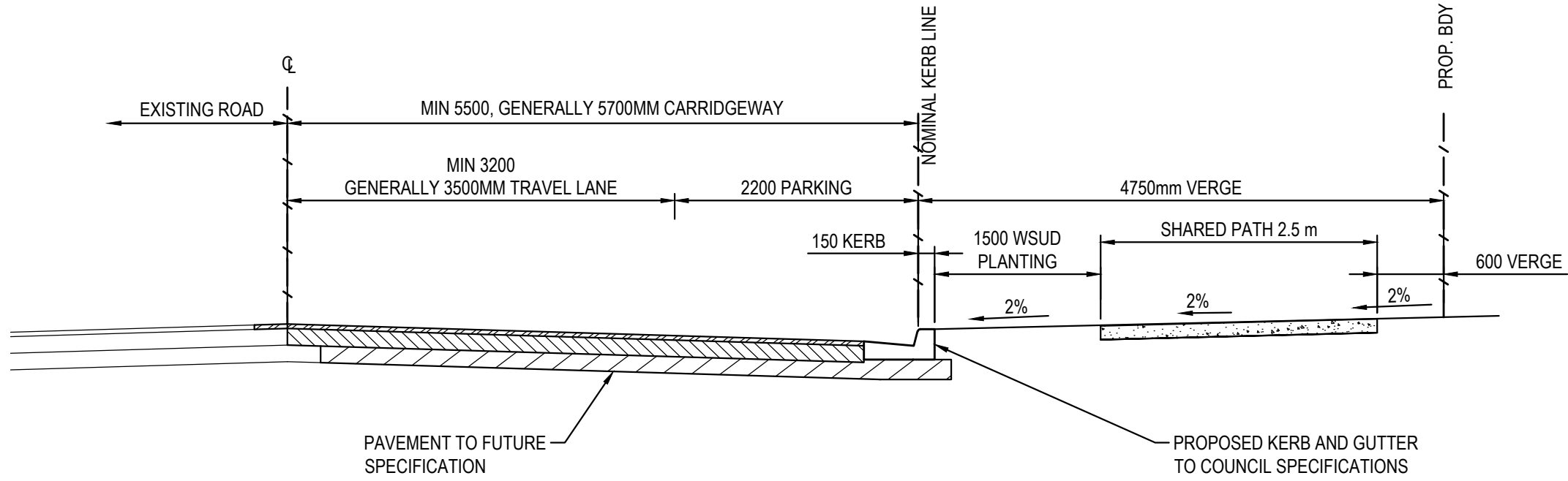
SECTION 1
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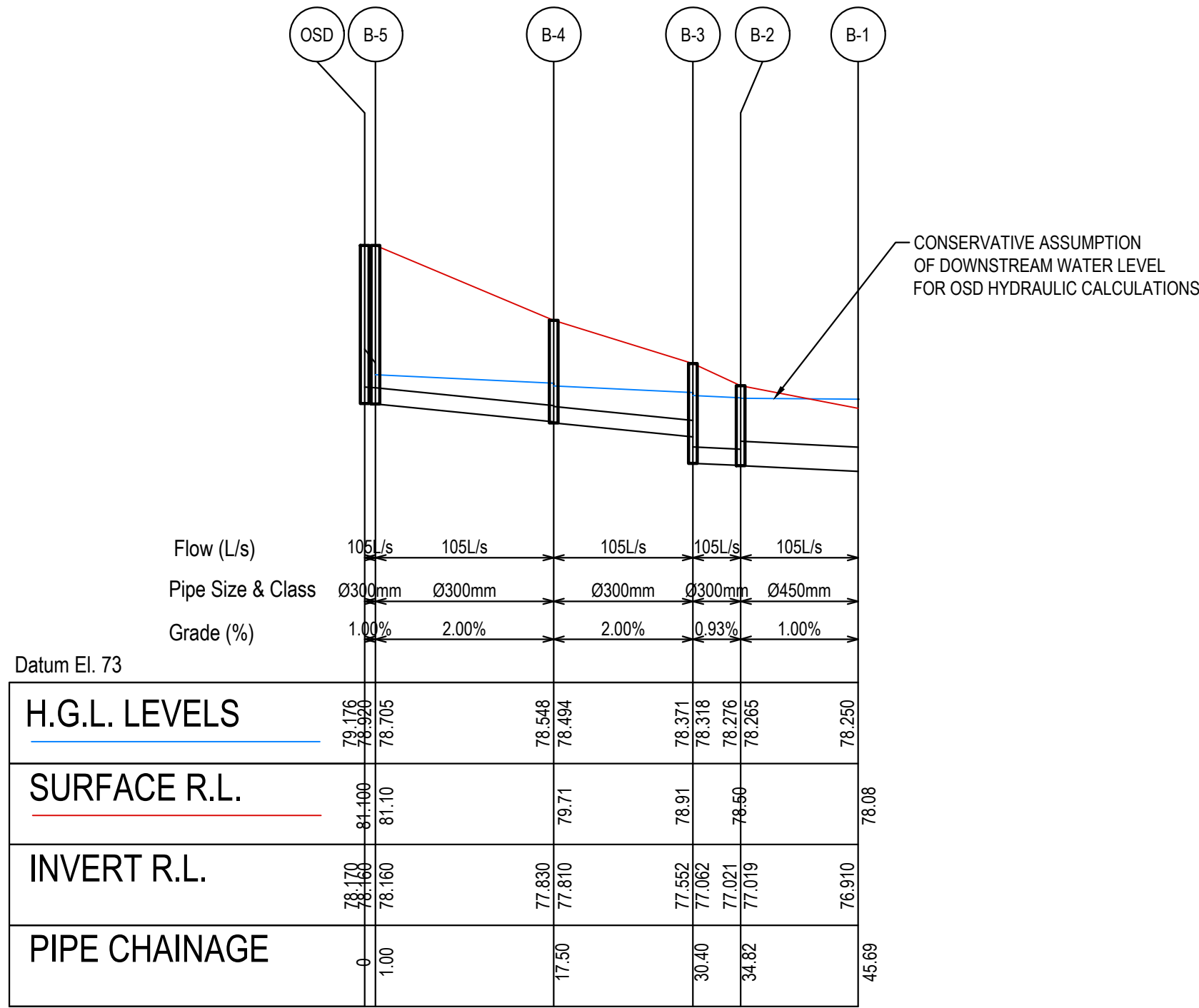
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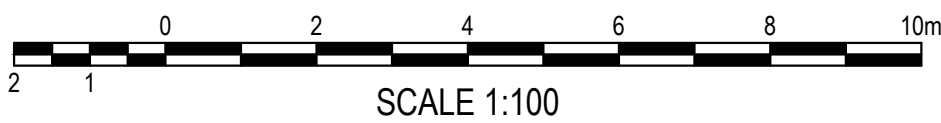
SECTION 3
SCALE: 1:100



COLLECTOR ROAD TYPICAL SECTION
MINIMUM DIMENSIONS TO LGCP DCP – SCHEDULE 1, FIGURE 3-13 – TYPICAL COLLECTOR ROAD
SCALE 1:50



LINE B
SCALE: H 1:500 / V 1:100

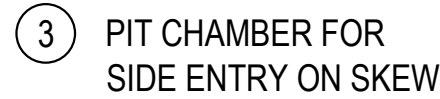
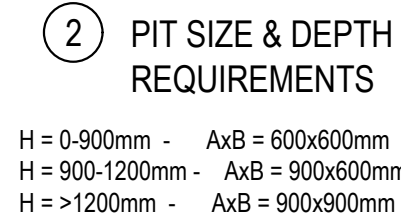


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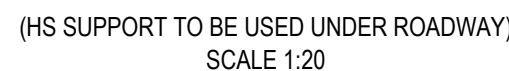
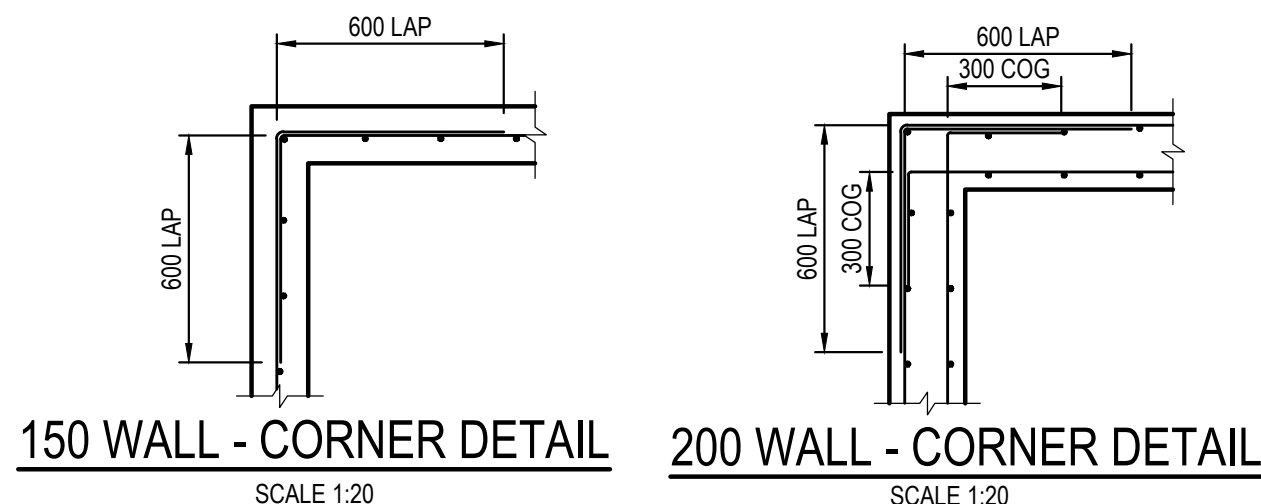
SURVEY INFORMATION SURVEYED BY SDG DATUM: A.H.D. ORIGIN OF LEVELS: PM 56567, RL 90.074											Client	Suite 2.01 828 Pacific Highway Gordon NSW 2072		Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au		Project PROPOSED RETAIL DEVELOPMENT 495, FOURTH AVENUE, AUSTRAL NSW	Drawn M.Pereira	Designed N.Wetzlar	Original issue date AUGUST					
											Architect	i2C					Checked A.Francis	Approved A.Francis	Scale @A1 AS NOTED					
											This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.						Drawing number			Revision				
											DRAWING TO BE PRINTED IN COLOUR						231125_DA_C120			02				
	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE														
02	ISSUED FOR DA ONLY		AFe	AM	19.11.2024																			
01	ISSUED FOR DA ONLY		IK	AM	11.06.2024																			

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

- FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
 FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
 FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
 FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
 FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



- ALL GRATED INLET PIT TO CONTAIN OCEAN PROTECT 200 MICRON PIT BASKETS OR APPROVED EQUIVALENT UNLESS NOTED ON PLAN. REFER DRAWING C207 FOR DETAILS.
- REFER C201 FOR DRAINAGE AND SUBSOIL NOTES.
- ALL PITS IN FOOTPATH, OR ADJACENT TO FOOTPATHS, TO BE FITTED WITH SLIP RESISTANT HEELGUARD LID.
- PIT SCHEDULE ABOVE DOES NOT INCLUDE PIT LIDS FOR WATER QUALITY DEVICES OR BELOW GROUND ODS TASKS, REFER DRAWINGS C202 AND C203.
- ALL RAINWATER OUTLETS (RWO) TO BE MIN 300MM IN DIAMETER. ALL RAINWATER OUTLETS TO BE HEELPROOF FINISH AND TO ARCHITECTS SPECIFICATIONS UNLESS NOTED ON PLAN.



(H1 & H2 SUPPORT)
SCALE 1:20

SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

PIT/STRUCTURE NUMBER	DESCRIPTION
A-1 A-2 A-3 A-4 A-5 A-6 B-4 B-3	PROPOSED INLET PIT WITH 900x900 HINGED HEAVY DUTY GRATED LID CLASS "D" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENT
D-1	PROPOSED INLET PIT WITH 900x900 HINGED LIGHT DUTY GRATED LID CLASS "B" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENT
B-1 B-5	PROPOSED JUNCTION PIT WITH 900x900 HEAVY DUTY SEALED LID CLASS "D" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENT
B-2 C-1	PROPOSED 1.8m KERB INLET PIT WITH 900x900 INLET GRATE HEAVY DUTY CLASS "D" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENTS.
GD-1 GD-2 GD-3	PROPOSED 200mm WIDE MEDIUM DUTY GRATED DRAIN CLASS "C" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENTS.
E-1 E-2 E-3 E-4 E-5 E-6 E-7 E-8 F-1 G-1 H-1 I-1 J-1 X-1	PROPOSED INLET PIT WITH 900x900 HINGED MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENT
G-2 H-2 I-2 J-2 D-6 D-7 D-8 D-9	PROPOSED INLET PIT WITH 600x600 HINGED MEDIUM DUTY GRATED LID CLASS "C" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENT
D-2 D-3 D-4 D-5	PROPOSED JUNCTION PIT WITH 900x900 LIGHT DUTY SEALED LID CLASS "B" IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S REQUIREMENT

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.
5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 DRAINAGE RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.
9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE 'POLYCRETE' WITH 'LIGHT DUTY' CLASS B GALV. MILD STEEL GRATING AND FRAME.
ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU $f_c=32$ MPa. REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE. U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET.
GALV.MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.
10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.
11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
 - PIPE SIZE
 - DEPTH TO INVERT
 - SKEW ANGLE
 - REFER ANGLEIF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCH TO FACILITATE FLOW.
13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.
20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.
22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.

FOR DA ONLY

Drawn A.Fernandes	Designed N.Wetzlar	Original issue date JAN 2024
Checked A.Francis	Approved A.Francis	Scale (A1) AS NOTED
Drawing number 231125_DA_C200		Revision 02

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PROPOSED RETAIL DEVELOPMENT
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Title

STORMWATER MISCELANEOUS DETAILS
AND PIT LID SCHEDULE

DEPTH ID	BAG DEPTH	OVERALL DEPTH
1	170	270
2	300	450
3	600	700

		DEPTH ID		
		1	2	3
PLAN ID	S	■	■	■
	M	■	■	■
	L	■	■	■
	XL	■	■	■



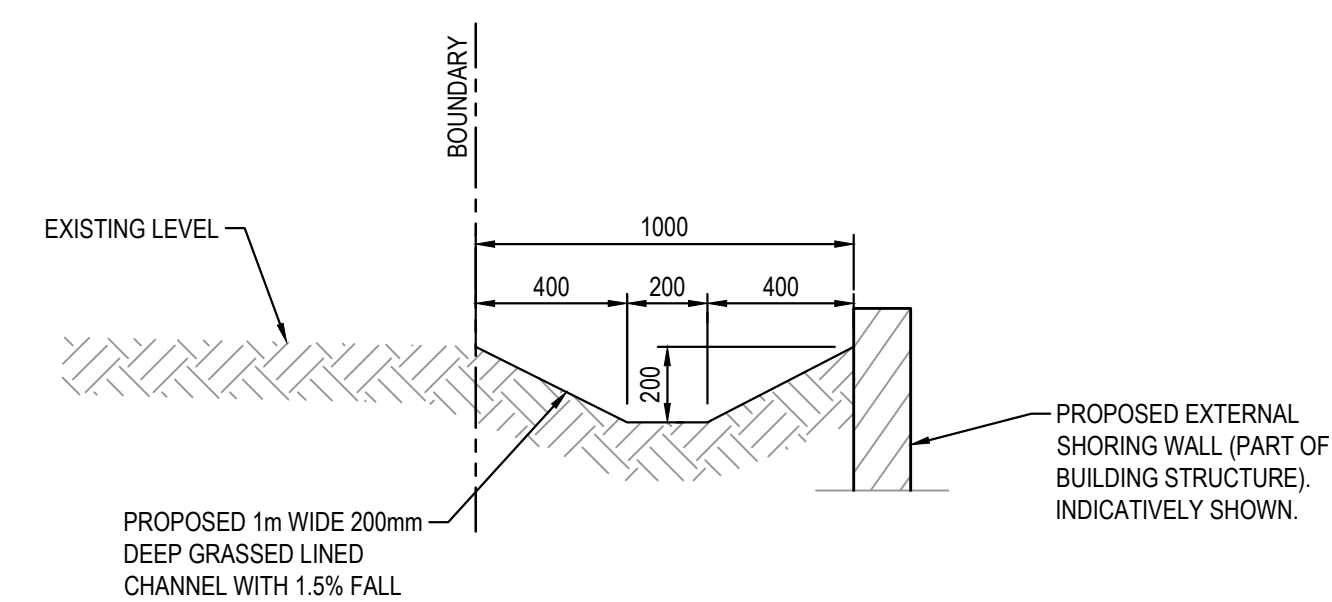
GENERAL NOTES

1. THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
2. CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
3. OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES:- 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
4. DRAWINGS NOT TO SCALE.



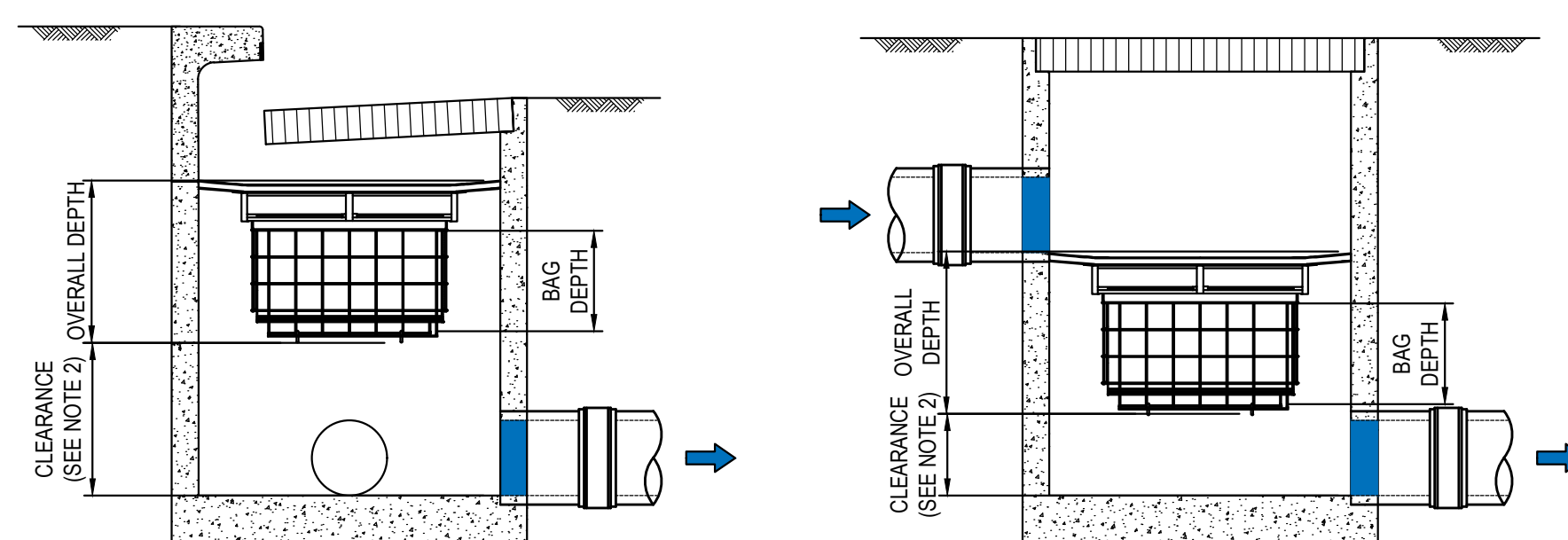
PHONE: 1300 354 722 www.oceanproject.com.au

OCEAN PROTECT
OCEANGUARD
TYPICAL ARRANGEMENTS
SPECIFICATION DRAWING



PROPOSED DRAINAGE CHANNEL - 1

SCALE 1:20



SURFACE FLOW CONFIGURATION

SCALE: 1:20

PIPE FLOW CONFIGURATION

SCALE: 1:20



SCALE 1:20

SURVEY
INFORMATION
SURVEYED BY SDG

DATUM: A.H.D.
ORIGIN OF LEVELS: PM 56567, RL 90.074

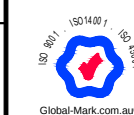
02	ISSUED FOR DA ONLY	AFe	AM	19.11.2024						
01	ISSUED FOR DA ONLY	AFe	AM	03.06.2024						
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT		DRAWN	DESIGNED	DATE

Client
FABCOT

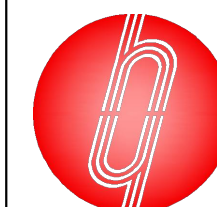
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	Project
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PROPOSED RETAIL DEVELOPMENT
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	Title
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STORMWATER MISCELLANEOUS DETAILS

Drawn

A.Fernandes

A. Francis

Drawing number	231125_DA_C201
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331

the date

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02

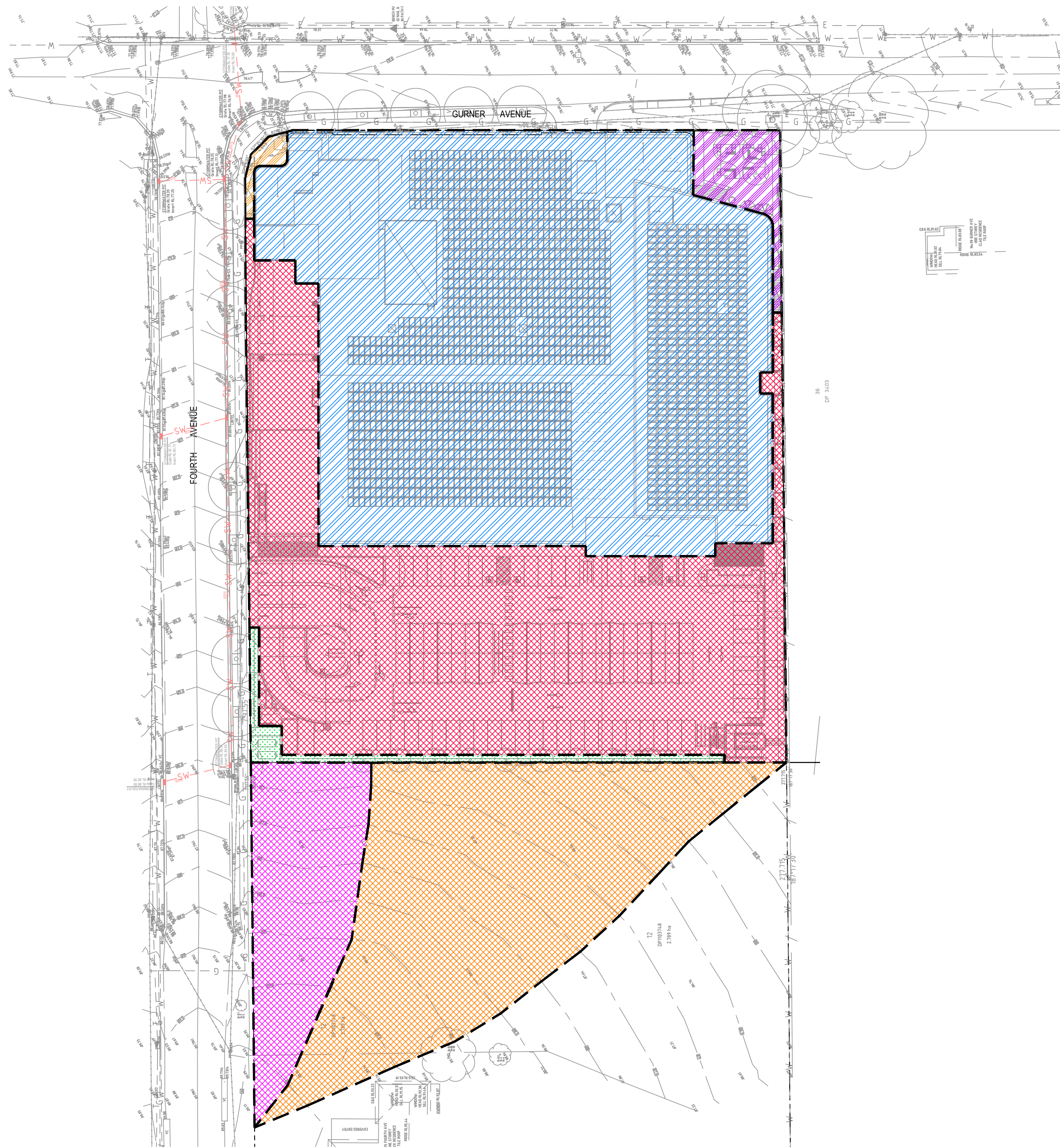
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FOR DA ONLY

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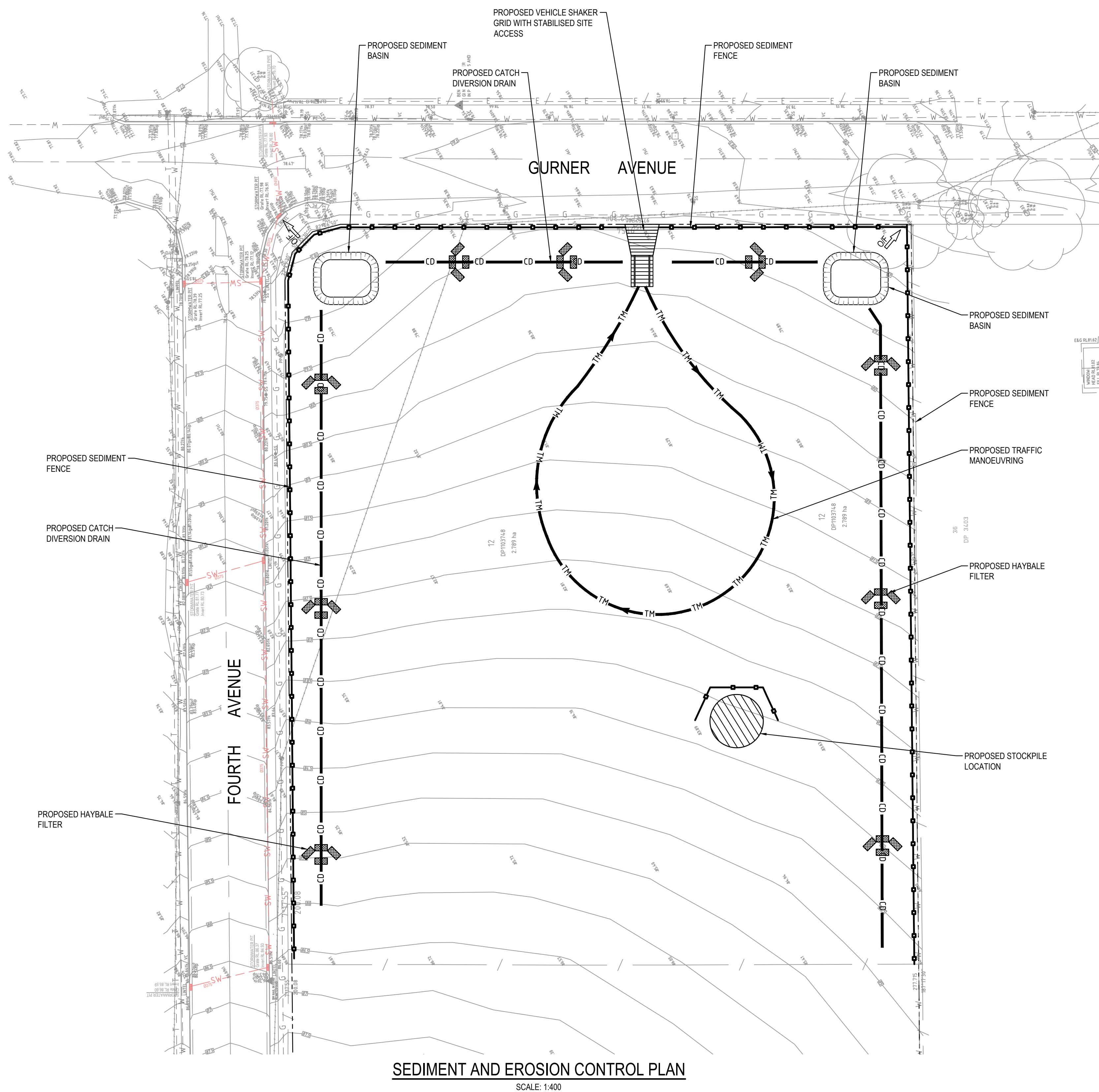
 LANDSCAPING AREA (EAST)
= 2934m²

SCALE: 1:500



Drawn A.Fernandes	Designed N.Wetzlar	Original issue date JAN 2021
Checked A.Francis	Approved A.Francis	Scale @A1 1:250
Drawing number 231125_DA_C251		Revision 03

[illegible]



	SITE BOUNDARY
	PROPOSED SEDIMENTATION FENCE
	PROPOSED CATCH DIVERSION DRAIN
	PROPOSED TRAFFIC MANOEUVRING
	PROPOSED HAYBALE FILTER
	PROPOSED STOCKPILE LOCATION
	PROPOSED VEHICLE SHAKER GRID
	PROPOSED STABILISED SITE ACCESS
	PROPOSED SEDIMENT BASIN

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RESPECTIVE LIVERPOOL CITY COUNCIL SPECIFICATIONS AND LANDCOMS "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & SILTATION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- 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 LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED. EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

ORIGIN OF LEVELS: PM 56567, RL 90.074

02	ISSUED FOR DA ONLY	AFe	AM	19.11.2024							
01	ISSUED FOR DA ONLY	AFe	AM	03.06.2024							
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT		DRAWN	DESIGNED	DATE	

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Project
PROPOSED RETAIL DEVELOPMENT
495, FOURTH AVENUE, AUSTRAL NSW

SEDIMENT AND EROSION CONTROL PLAN

Drawn A.Fernandes	Designed N.Wetzlar	Original issue date JAN 2024
Checked A.Francis	Approved A.Francis	Scale @A1 1:400

Drawing Number	Revision
231125_DA_SE01	02

