

Prepared by:



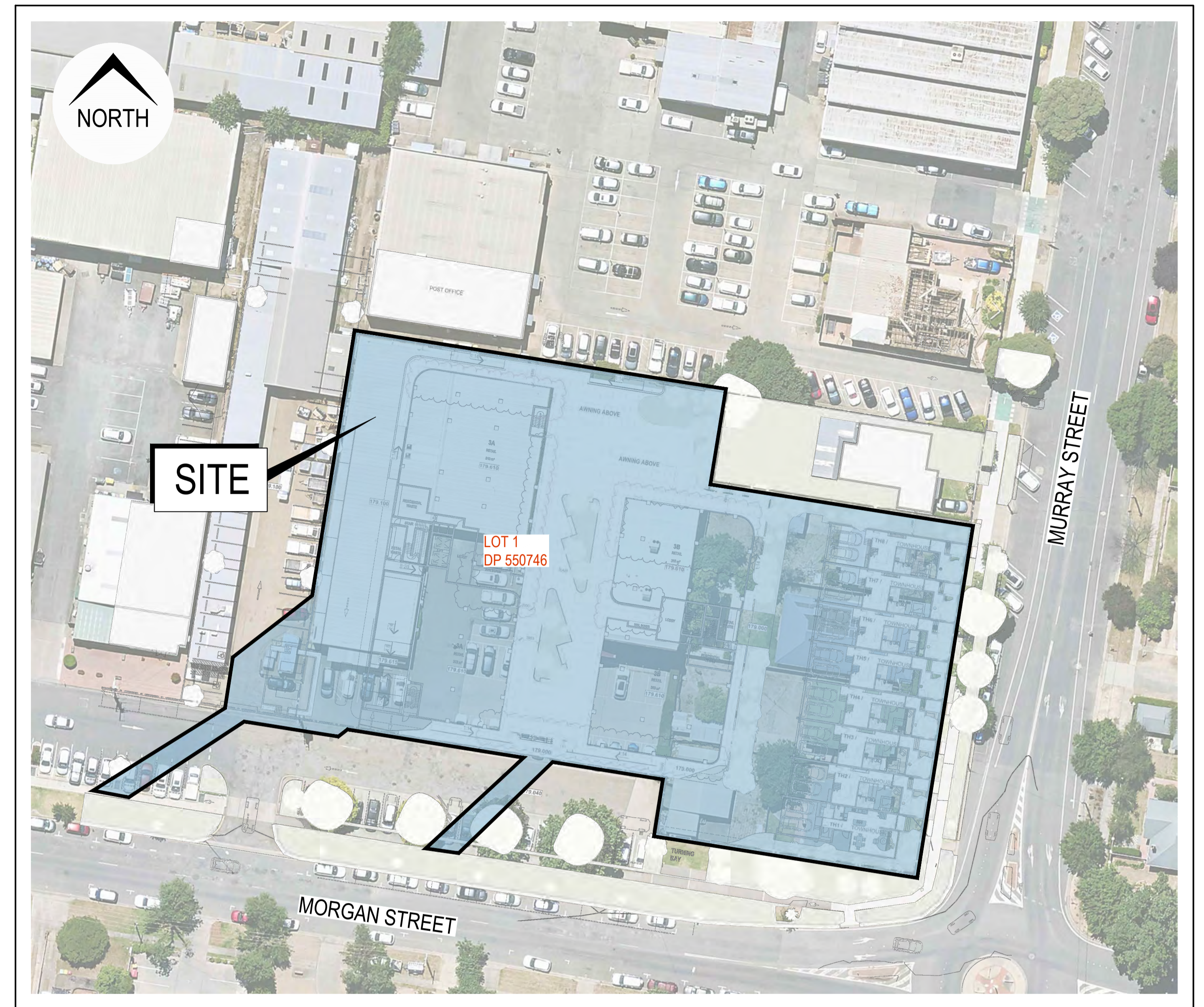
Prepared for:



LGA:



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SITE / LOCATION (Image courtesy of Metromap 13.11.2023)

LOT 1, DP 550746

CIVITAS STAGE 3 DRAINAGE AND CIVIL DESIGN

ISSUED FOR **50% TENDER**

GENERAL NOTES

- G1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CIVIL WORKS SPECIFICATIONS AND DEVELOPMENT CONTROL PLAN.
- G2. SURVEY MARKS: SURVEY MARKS SHOWN THUS SHALL BE RETAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT MUST BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- G3. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- G4. THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
- G5. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- G6. COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
- G7. TREES TO BE RETAINED ON SITE SHALL BE PROTECTED BY SUITABLE STURDY APPROVED PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF SITE WORKS.
- G8. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, EXISTING INFRASTRUCTURE AND DEBRIS ETC.
- G9. FILLING IS TO BE FROM A NOMINATED SOURCE, OF SOUND CLEAN MATERIAL, FREE FROM LARGE ROCK, STUMPS, CONTAMINATED MATTER, INDUSTRIAL AND BUILDING WASTE, ORGANIC MATTER AND OTHER DEBRIS. PLACING OF FILLING ON THE PREPARED AREAS SHALL NOT COMMENCE UNTIL THE AUTHORITY TO DO SO HAS BEEN OBTAINED FROM THE COUNCIL.
- G10. SITE FILL AREAS: THE CONTRACTOR OR PROJECT SURVEYOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- G11. ALL SITE FILLING TO BE COMPACTED TO 95% STANDARD COMPACTION AND SHALL BE CONTROLLED BY A REGISTERED SOIL LABORATORY IN ACCORDANCE WITH COUNCIL'S 'WORKS SPECIFICATION'.
- G12. ALL SITE REGRADING AREAS SHALL BE GRADED AT A MINIMUM 1% TO THE ENGINEERS REQUIREMENTS UNLESS NOTED OTHERWISE.
- G13. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT.
- G14. VEHICULAR CROSSINGS SHALL BE CONSTRUCTED IN KERB AND GUTTER WHERE SHOWN, UNLESS ROLL KERB USED IN ACCORDANCE WITH COUNCIL'S STANDARD DRAWINGS.
- G15. PRAM CROSSINGS SHALL BE CONSTRUCTED IN KERB AND GUTTER WHERE SHOWN IN ACCORDANCE WITH COUNCIL'S STANDARD DRAWING.
- G16. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- G17. DIMENSIONS OF ANY DETAIL SHALL NOT BE SCALED - DIMENSIONS, IF IN DOUBT, SHALL BE VERIFIED BY THE SUPERINTENDENT.
- G18. ALL CONSTRUCTION AND RESTORATION WORK ON COUNCIL'S ROAD AND FOOTPATH AREA ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND COUNCIL'S STANDARD SPECIFICATIONS.
- G19. INSPECTION OF WORKS TO BE COMPLETED IN ACCORDANCE WITH COUNCIL'S STANDARD WORKS SPECIFICATION.

STORMWATER DRAINAGE NOTES

- D1. STORMWATER DESIGN CRITERIA:
1:100 YR ARI MAJOR SYSTEM
1:20 YR ARI MINOR SYSTEM
- D2. PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 (CURRENT) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE (UNLESS NOTED OTHERWISE), WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).
- D3. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 AND AS/NZS 3500 3.2 & COUNCIL'S SPECIFICATIONS.
- D4. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- D5. GRATES AND COVERS SHALL CONFORM TO AS 3996.
- D6. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- D7. DRAINAGE LINES SHALL HAVE 3.0m OF SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK, DISCHARGING INTO DOWNSTREAM PITS.
- D8. ALL STORMWATER PIPES TO BE REINFORCED CONCRETE PIPE (RCP) CLASS 2 UNLESS NOTED OTHERWISE.
- D9. ALL INTERLOTMENT DRAINAGE LINES SHALL BE LAID AT A MINIMUM GRADE OF 1% UNLESS OTHERWISE INDICATED AND MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS UNLESS NOTED OTHERWISE.
- D10. DRAINAGE LINES ON PLANS ARE DIAGRAMMATIC ONLY AND PIPE CENTRELINES SHALL ENTER AND EXIT PITS AT THE CENTRE OF THE RESPECTIVE PIT WALLS UNLESS NOTED OTHERWISE.
- D11. USE CLASS C COVERS AND GRATES FOR ALL COUNCIL STORMWATER PITS.
- D12. ALL BOX CULVERTS ARE TO BE PROVIDED WITH 3.0m OF SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK ON EITHER SIDE OF THE OUTER WALL UPSTREAM OF THE INLET PIT.
- D13. PITS ARE TO HAVE STEP IRONS IF DEEPER THAN 1.2m.

EARTHWORKS NOTES

- E1. EARTHWORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND THE CIVIL SPECIFICATION. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- E2. A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- E3. IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL.
- E4. ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- E5. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITHIN FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- E6. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
- E7. A MINIMUM 1 METRE WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD.
- E8. ALL ENMVENM IS TO BE CERTIFIED.
- E9. CONSTRUCTION AND COMPACTION TO BE IN ACCORDANCE WITH THE CIVIL SPECIFICATIONS.
- E10. DURING CONSTRUCTION ANY EXCAVATIONS ARE TO BE SECURELY SHORED AND BENCHED TO PREVENT THE SIDES OF THE EXCAVATION FROM COLLAPSING. ALL TRENCHES ARE TO BE SHORED OR BENCHED TO COMPLY WITH THE NSW CONSTRUCTION ACT.

SURVEY SET OUT INFORMATION NOTES:

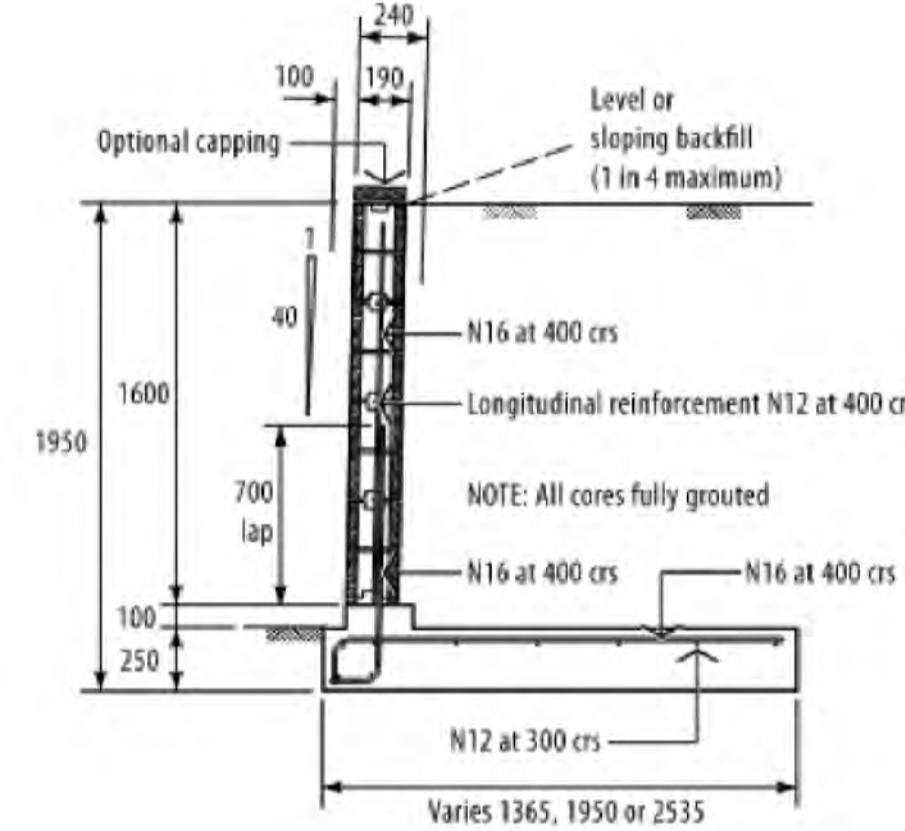
- S1. ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
- S2. THE INFORMATION DETAILED ON THE CERTIFIED SUBDIVISION WORKS CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR USE OF ALL INFORMATION PROVIDED IS AS FOLLOWS:
 - a. CERTIFIED SUBDIVISION WORKS CERTIFICATE DRAWINGS
 - b. 2D DRAFTING BASE (ELECTRONIC FILE)
 - c. 3D DTM (ELECTRONIC FILE)
- S3. ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO CONSTRUCTION WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.
- S4. CO-ORDINATES ARE TO MAP GRID AUSTRALIA (MGA) CO-ORDINATE SYSTEM (GDA 94).

ORIGINAL DETAIL SURVEY BY: RIVLAND SURVEYORS
 COORDINATES: GDA 94 MGA55 DATUM: A.H.D.
 LEVELS ORIGIN: RL 179.76 AHD

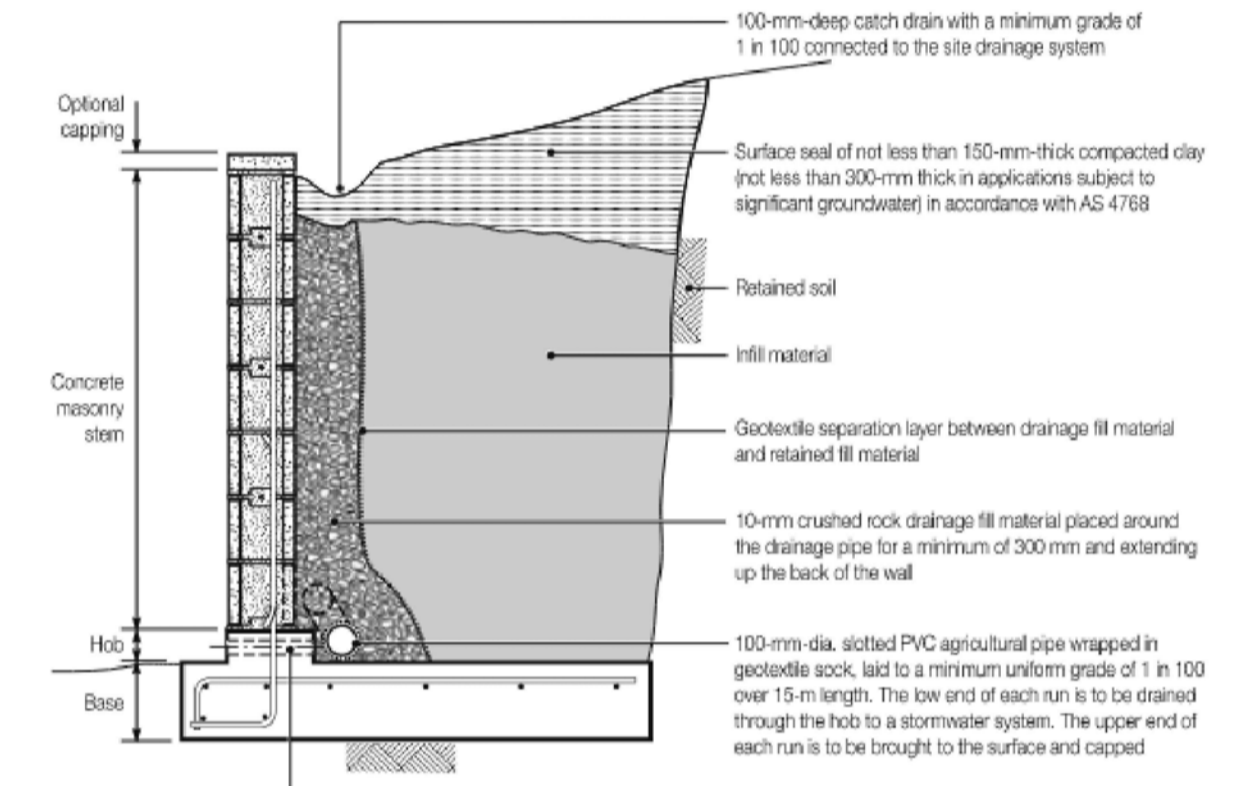
ORION ACCEPTS NO RESPONSIBILITY FOR ANY SURVEY INFORMATION PROVIDED. ALL SURVEY INFORMATION SHOULD BE CONFIRMED BY A REGISTERED SURVEYOR PRIOR TO CONSTRUCTION.



LEGEND			
	EXISTING	PROPOSED	FUTURE
UTILITY - ELECTRICITY			
GAS			
SEWER			
WATER			
TELECOMS			
NBN			
OPTIC FIBRE			
CONTOUR LINE & LABEL			
SPOT LEVEL			
APPROXIMATE LIMIT OF WORKS			
BUILDING / ENVELOPE			
STORMWATER DRAINAGE PIPE AND STRUCTURE			
RETAINING WALL			



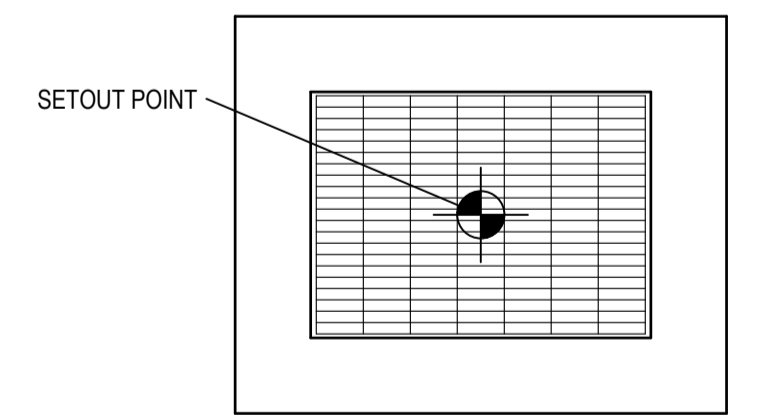
NOTES:
 All cores to be fully grouted.
 The tables are also applicable for vertical walls.
 This detail to be read in conjunction with *Common Details* regarding reinforcement placement and drainage design.
 See also, *Construction Specification* for further details.



TYPICAL BLOCKWORK RETAINING WALL DETAIL

SCALE: NTS

NOTE:
 ALL RETAINING WALLS ARE TO BE DESIGN AND CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER







SETOUT DETAIL
 GRATED SURFACE INLET PIT (G.S.I.P.) &
 RAISED SURFACE INLET PIT (R.S.I.P.)
 SCALE 1:20

ISSUED FOR **50% TENDER**

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Rev	Drawn	Design	Check	Appd.	Date	Revision	Description	Project No.	Set No.	Milestone	Plan	Revision					
A	EM	SB	SB	SB	28/08/2024	ISSUED FOR 50% TENDER		23-0762	02	TD	001	A					



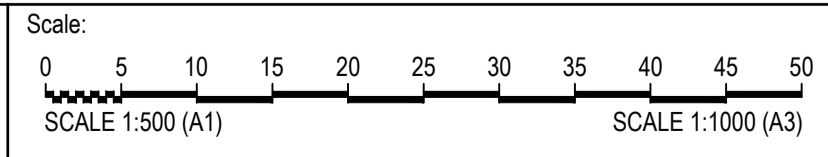
LEGEND	
STAGE 3A - 9 STOREY APARTMENT BUILDING	 STAGE 3A
STAGE 3B - 7 STOREY APARTMENT BUILDING	 STAGE 3B
STAGE 3C - 3 STOREY TOWNHOUSES	 STAGE 3C
LIMIT OF WORKS	



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Project: CIVITAS STAGE 3

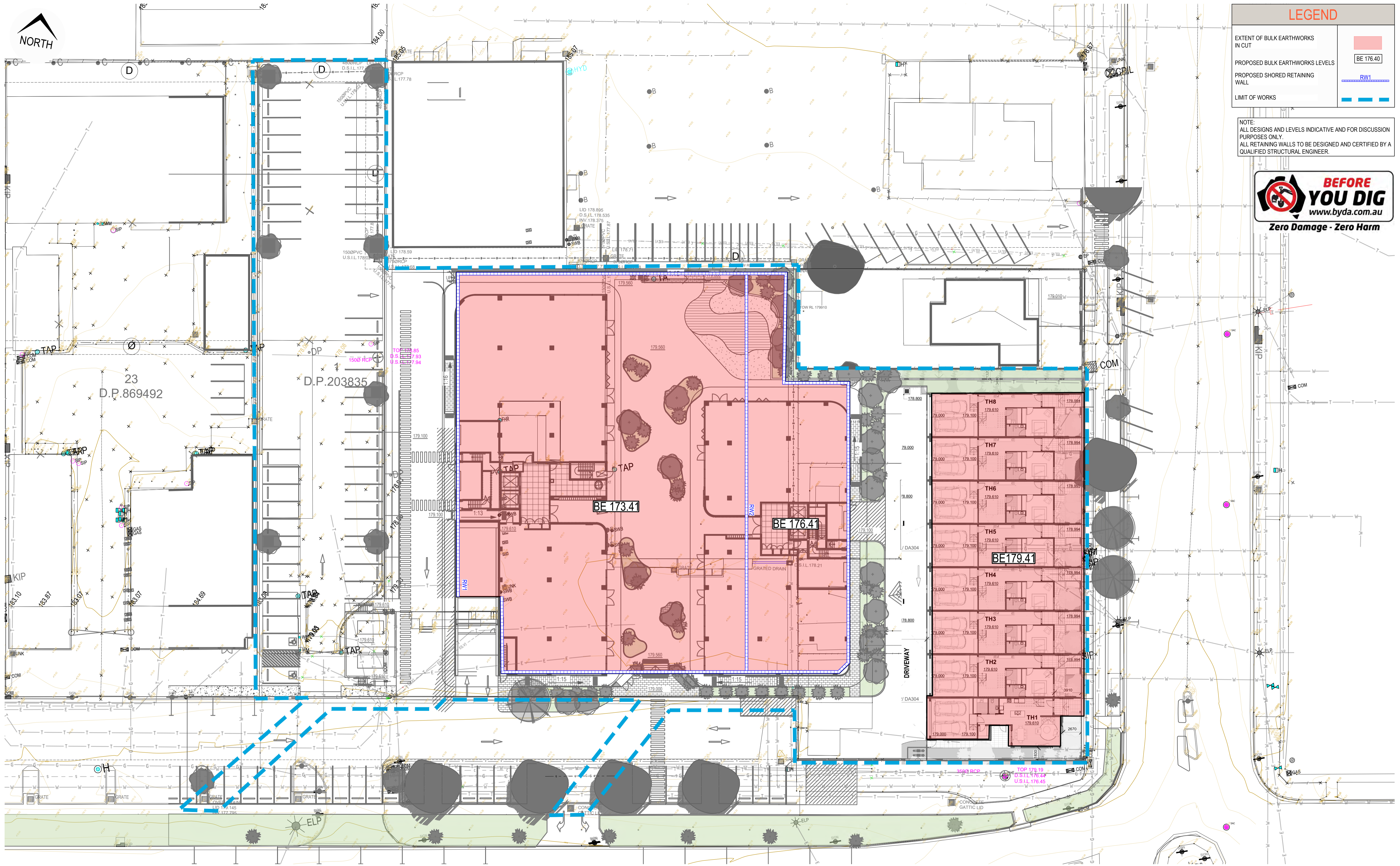
Title: LOCALITY AND STAGING PLAN				
Project No. 23-0762	Set No. 02	Milestone TD	Plan 002	Revision A



LEGEND

- EXTENT OF BULK EARTHWORKS IN CUT
- PROPOSED BULK EARTHWORKS LEVELS BE 176.40
- PROPOSED SHORED RETAINING WALL RW1
- LIMIT OF WORKS

NOTE:
ALL DESIGNS AND LEVELS INDICATIVE AND FOR DISCUSSION PURPOSES ONLY.
ALL RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER.



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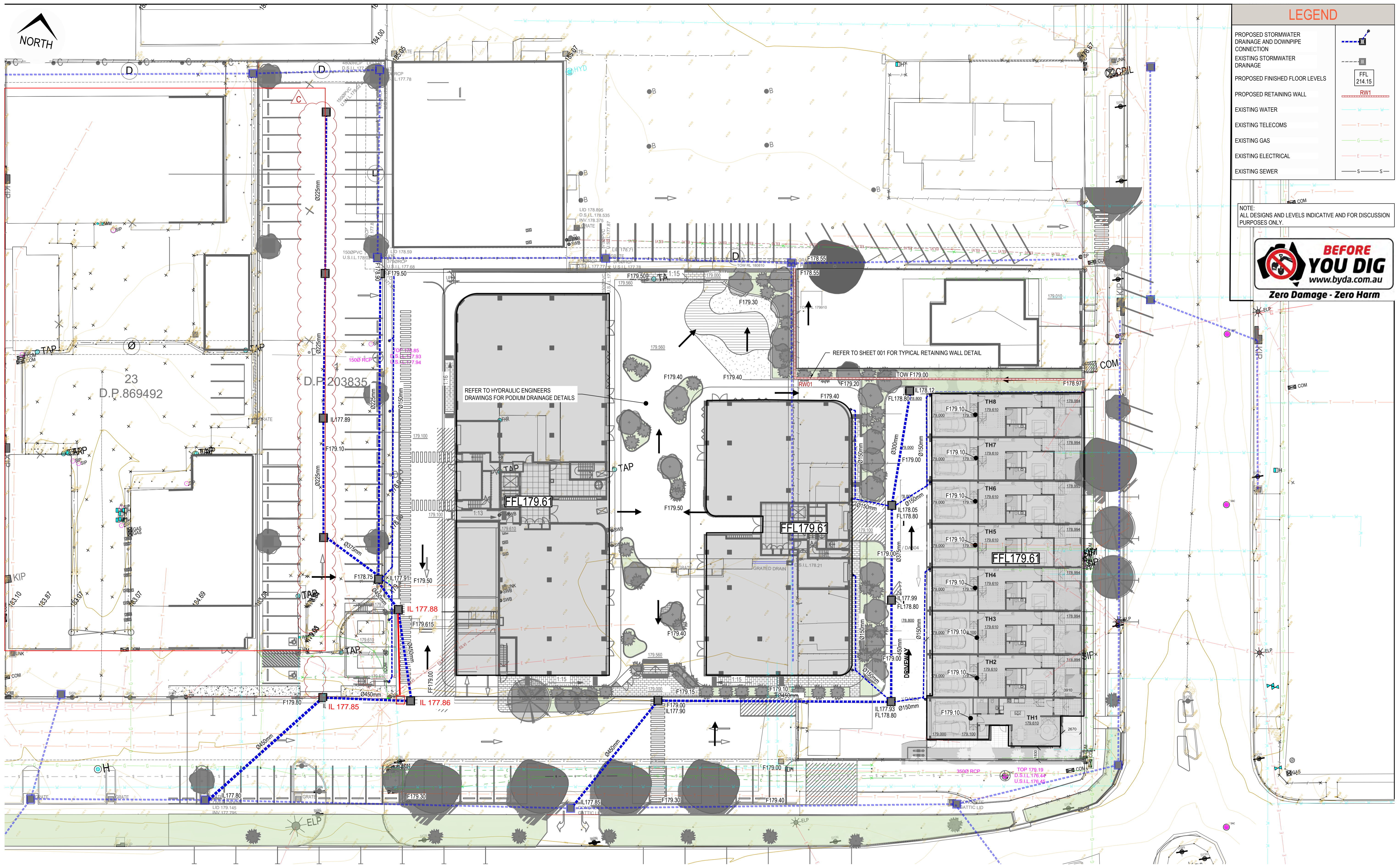
By: **ORION**

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Project: **CIVITAS STAGE 3**

Title: **BULK EARTHWORKS PLAN**

Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	003	A



LEGEND	
PROPOSED STORMWATER DRAINAGE AND DOWNPIPE CONNECTION	
EXISTING STORMWATER DRAINAGE	
PROPOSED FINISHED FLOOR LEVELS	
PROPOSED RETAINING WALL	
EXISTING WATER	
EXISTING TELECOMS	
EXISTING GAS	
EXISTING ELECTRICAL	
EXISTING SEWER	

NOTE:
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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	EM	SB	SB	SB	31/10/2024	ISSUED FOR 50% TENDER
B	EM	SB	SB	SB	21/10/2024	ISSUED FOR 50% TENDER
A	EM	EL	SB	SB	28/08/2024	ISSUED FOR 50% TENDER

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By:

Project: CIVITAS STAGE 3

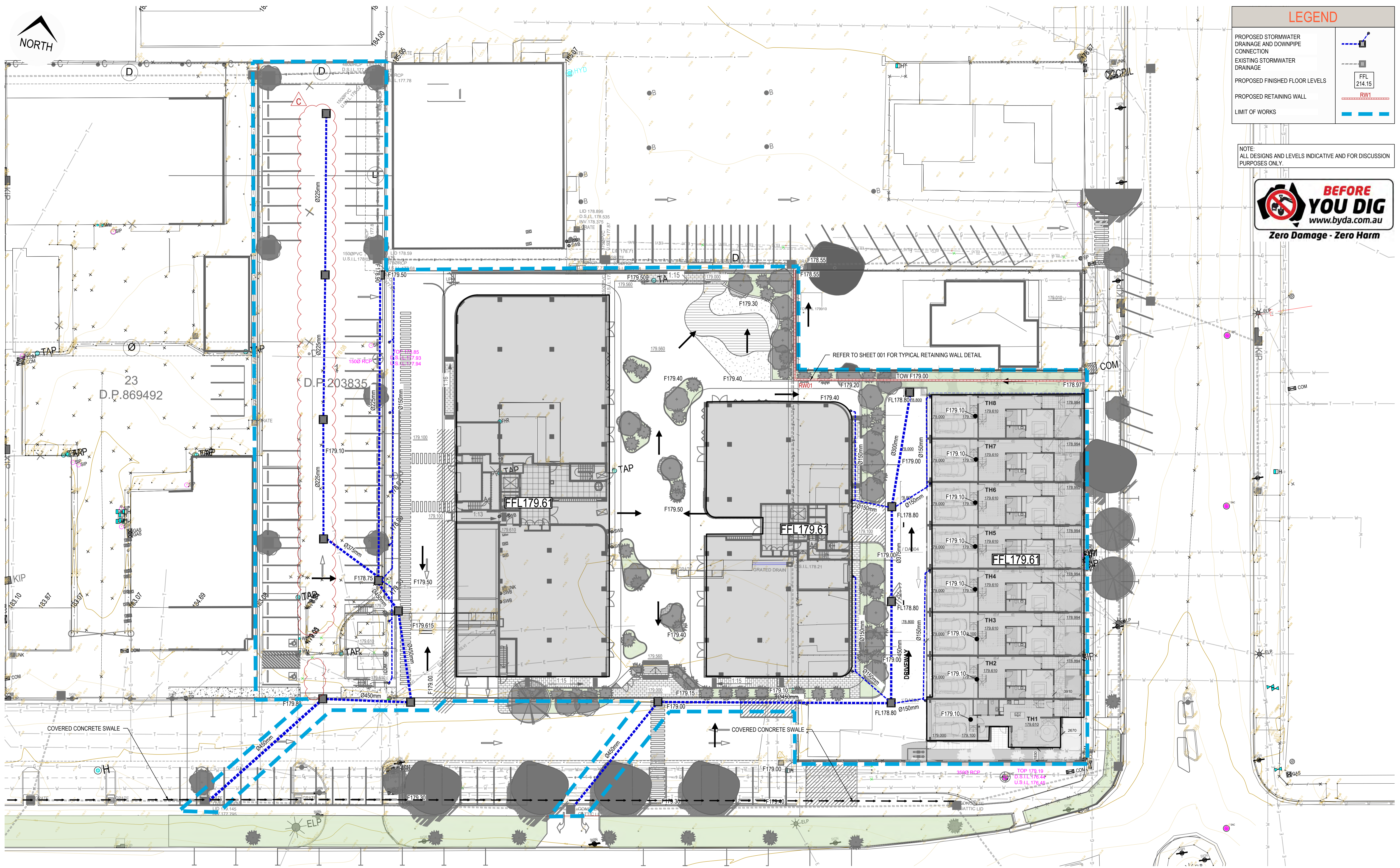
Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	010	C

Title: SERVICES COORDINATION PLAN				
Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	010	C



LEGEND	
PROPOSED STORMWATER DRAINAGE AND DOWNPIPE CONNECTION	
EXISTING STORMWATER DRAINAGE	
PROPOSED FINISHED FLOOR LEVELS	
PROPOSED RETAINING WALL	
LIMIT OF WORKS	

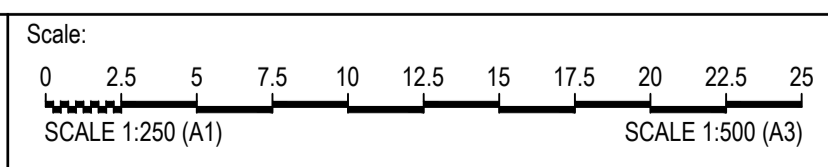
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Title: ENGINEERING PLAN				
Project No.	Set No.	Milestone	Plan	Revision
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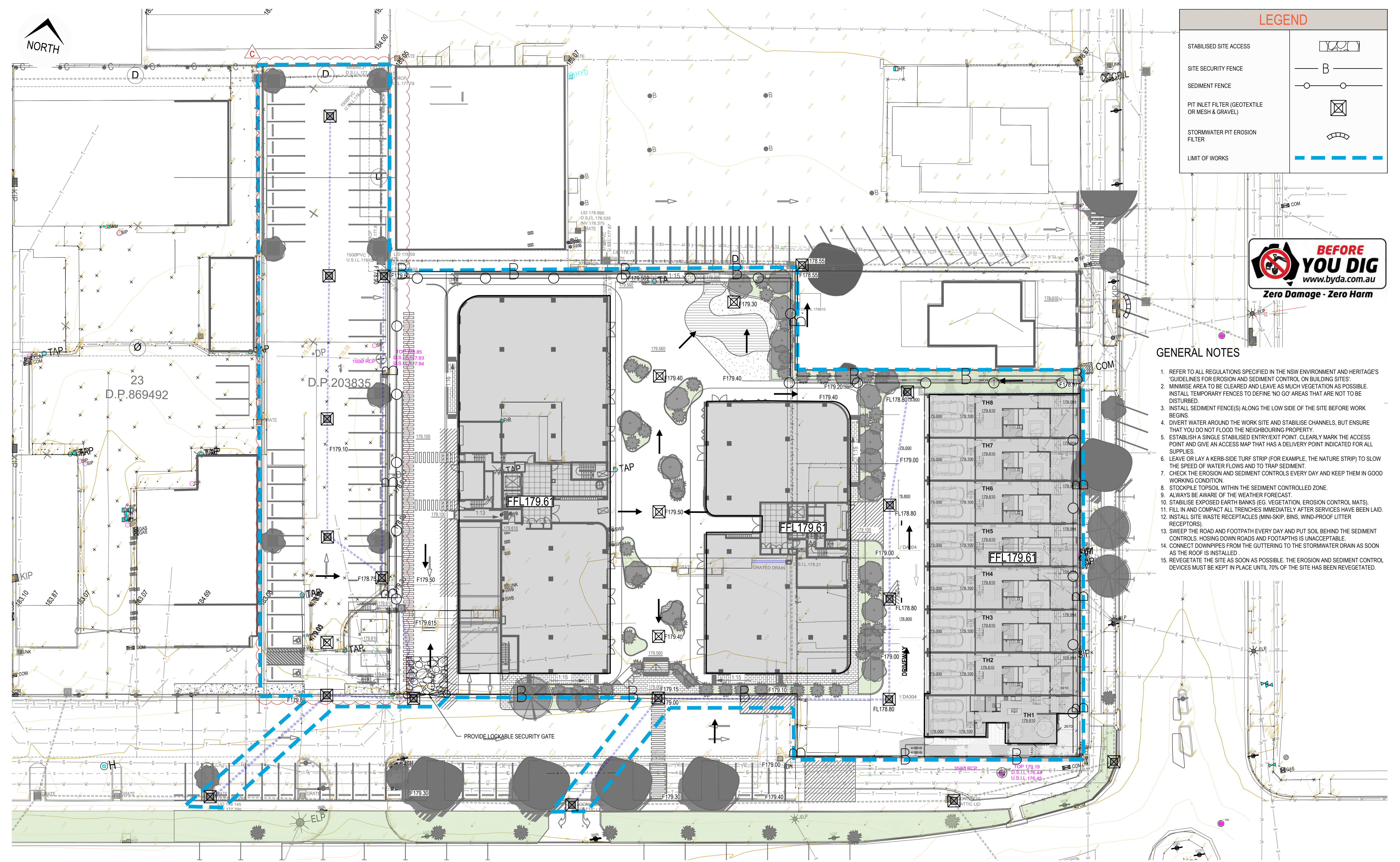
LEGEND

STABILISED SITE ACCESS	
SITE SECURITY FENCE	
SEDIMENT FENCE	
PIT INLET FILTER (GEOTEXTILE OR MESH & GRAVEL)	
STORMWATER PIT EROSION FILTER	
LIMIT OF WORKS	



GENERAL NOTES

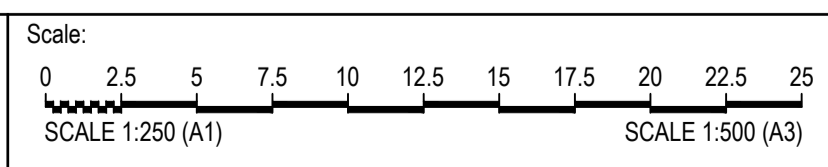
- REFER TO ALL REGULATIONS SPECIFIED IN THE NSW ENVIRONMENT AND HERITAGE'S 'GUIDELINES FOR EROSION AND SEDIMENT CONTROL ON BUILDING SITES'.
- MINIMISE AREA TO BE CLEARED AND LEAVE AS MUCH VEGETATION AS POSSIBLE. INSTALL TEMPORARY FENCES TO DEFINE 'NO GO' AREAS THAT ARE NOT TO BE DISTURBED.
- INSTALL SEDIMENT FENCE(S) ALONG THE LOW SIDE OF THE SITE BEFORE WORK BEGINS.
- DIVERT WATER AROUND THE WORK SITE AND STABILISE CHANNELS, BUT ENSURE THAT YOU DO NOT FLOOD THE NEIGHBOURING PROPERTY.
- ESTABLISH A SINGLE STABILISED ENTRY/EXIT POINT. CLEARLY MARK THE ACCESS POINT AND GIVE AN ACCESS MAP THAT HAS A DELIVERY POINT INDICATED FOR ALL SUPPLIES.
- LEAVE OR LAY A KERB-SIDE TURF STRIP (FOR EXAMPLE, THE NATURE STRIP) TO SLOW THE SPEED OF WATER FLOWS AND TO TRAP SEDIMENT.
- CHECK THE EROSION AND SEDIMENT CONTROLS EVERY DAY AND KEEP THEM IN GOOD WORKING CONDITION.
- STOCKPILE TOPSOIL WITHIN THE SEDIMENT CONTROLLED ZONE.
- ALWAYS BE AWARE OF THE WEATHER FORECAST.
- STABILISE EXPOSED EARTH BANKS (EG. VEGETATION, EROSION CONTROL MATS).
- FILL IN AND COMPACT ALL TRENCHES IMMEDIATELY AFTER SERVICES HAVE BEEN LAID.
- INSTALL SITE WASTE RECEPTACLES (MINI-SKIP, BINS, WIND-PROOF LITTER RECEPTORS).
- SWEEP THE ROAD AND FOOTPATH EVERY DAY AND PUT SOIL BEHIND THE SEDIMENT CONTROLS. HOISING DOWN ROADS AND FOOTPATHS IS UNACCEPTABLE.
- CONNECT DOWNPIPES FROM THE GUTTERING TO THE STORMWATER DRAIN AS SOON AS THE ROOF IS INSTALLED.
- REVEGETATE THE SITE AS SOON AS POSSIBLE. THE EROSION AND SEDIMENT CONTROL DEVICES MUST BE KEPT IN PLACE UNTIL 70% OF THE SITE HAS BEEN REVEGETATED.



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Project: **CIVITAS STAGE 3**

Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	100	A

GENERAL NOTES

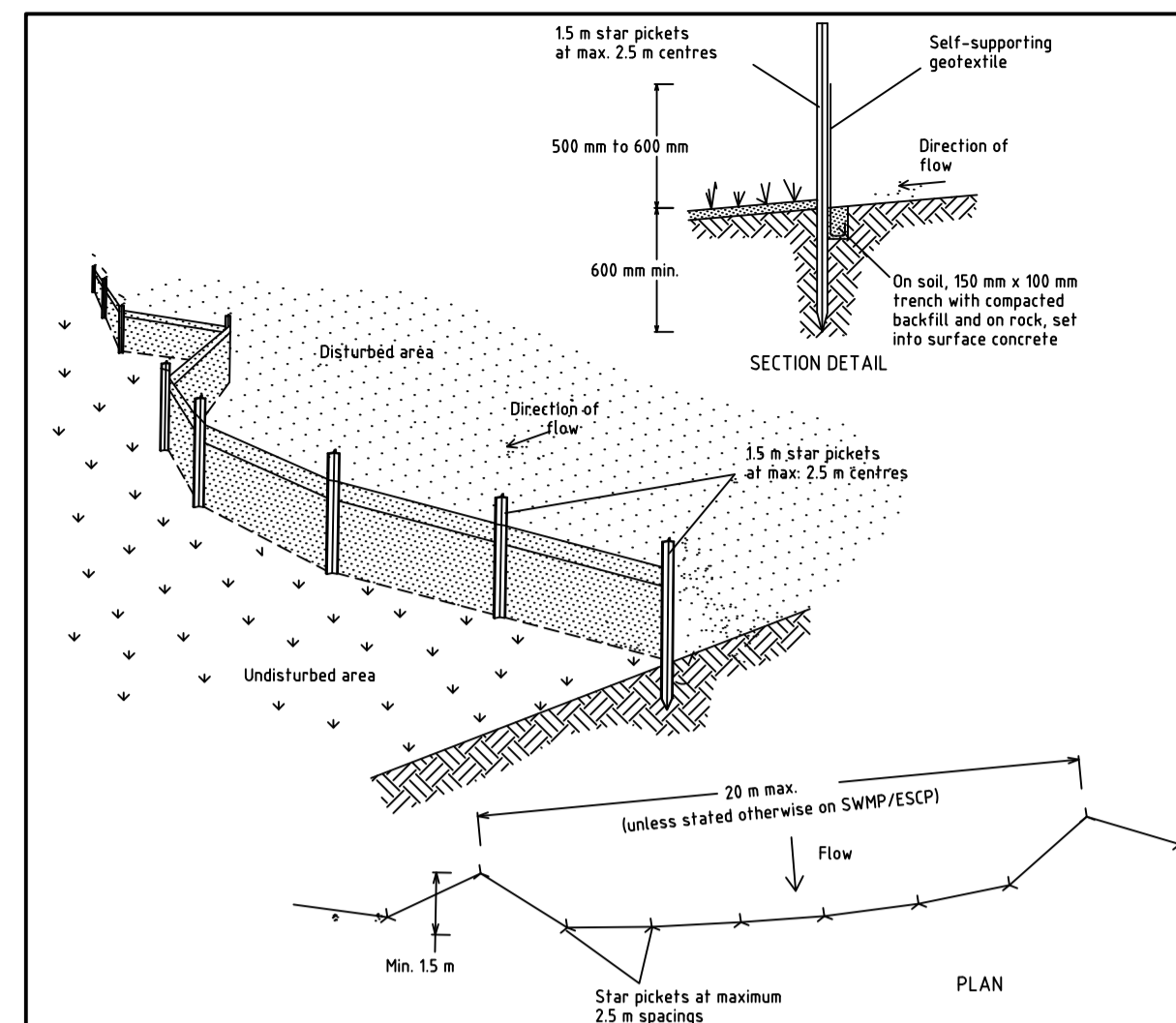
1. ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "ENVIRONMENT AND PROTECTION AUTHORITY" AND "DEPT OF LAND AND WATER CONSERVATION". MEASURES OUTLINED IN THE SEDIMENT & EROSION CONTROL PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
2. TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
3. ALL POSSIBLE DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
4. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
6. DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
7. ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS FROM THE CONCLUSION OF LAND SHAPING.
8. MINIMISE DUST BY WATERING WHEN REQUIRED.

SPECIAL NOTES

1. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" - 4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
3. CONFORMITY WITH THIS PLAN SHALL BE IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT
4. MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
5. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY MARK:-
 - a) THE TREES TO BE RETAINED.
 - b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
6. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
7. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

SEDIMENTATION CONTROL DEVICES

1. ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ONTO THE BALE CENTRE LINE.
2. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.

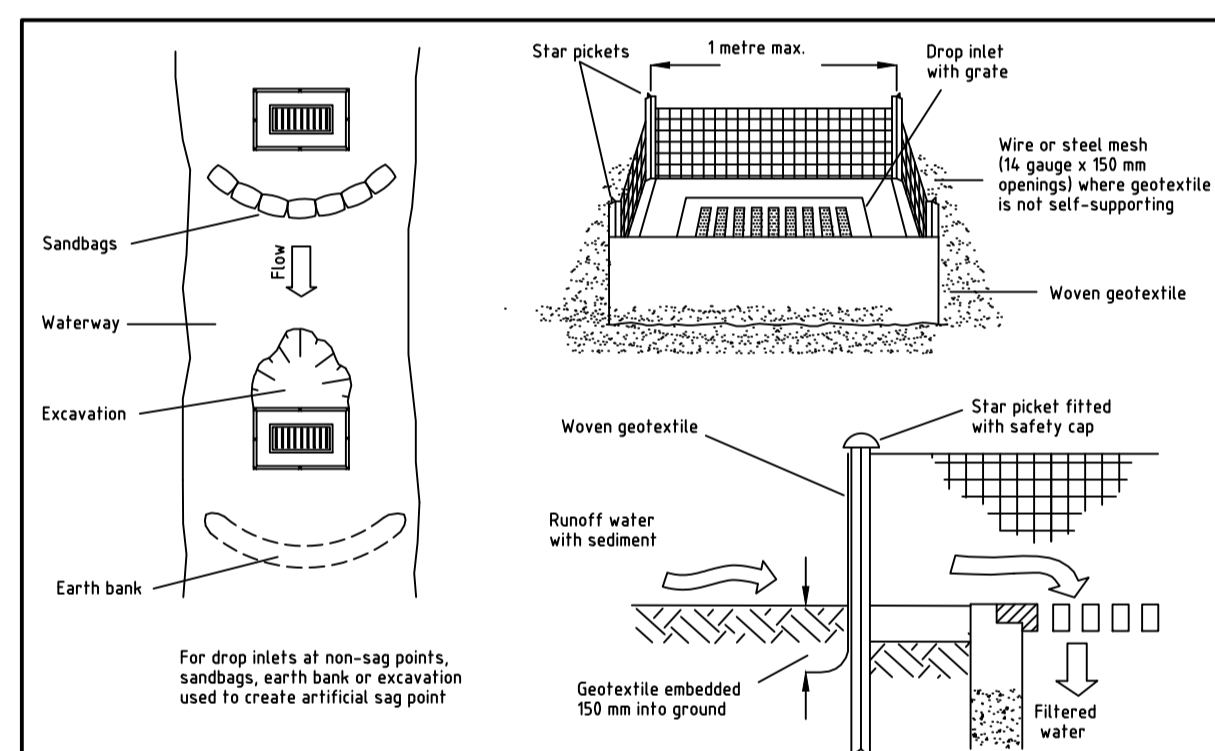


Construction Notes

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8

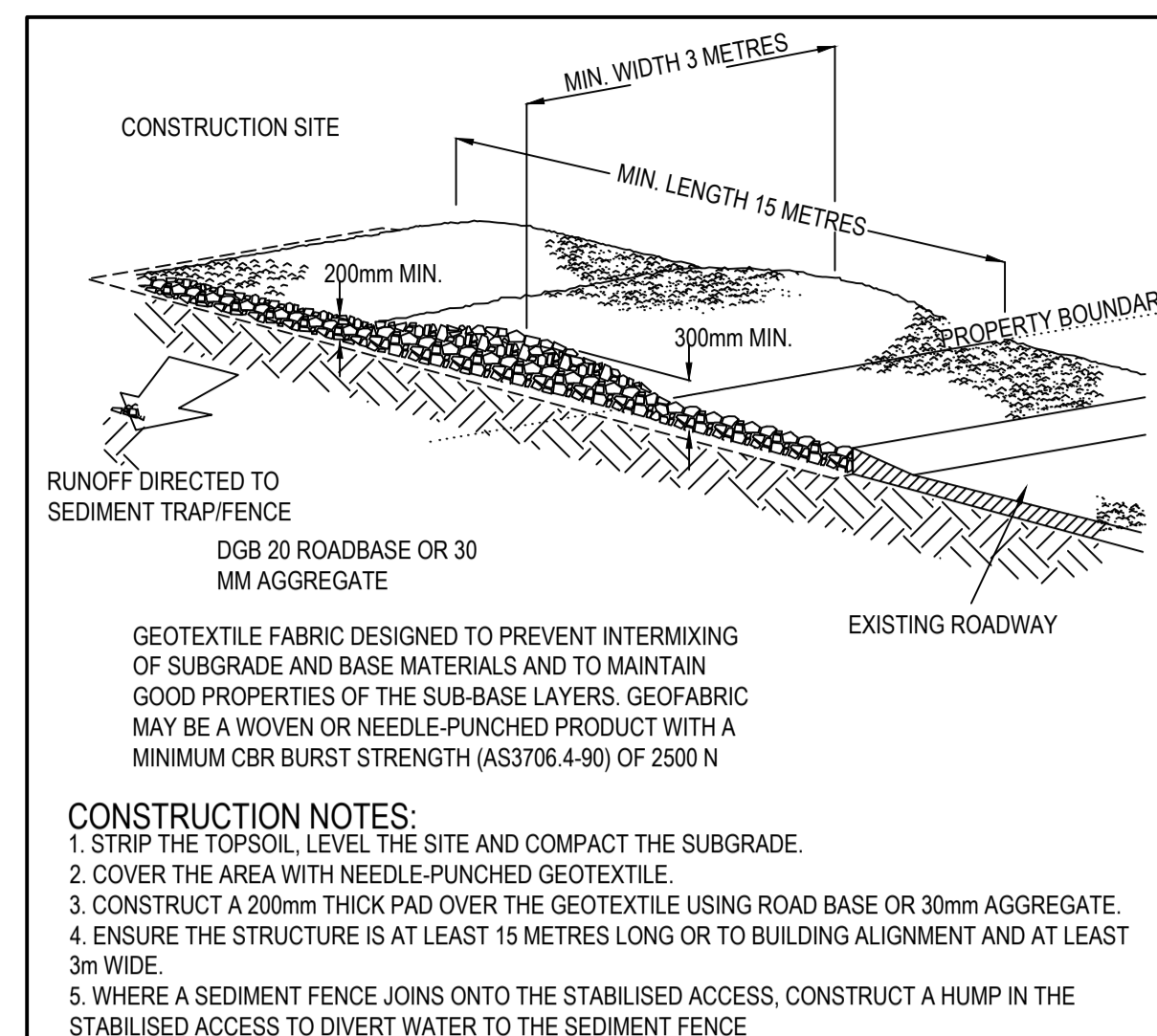


Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-8 for installation procedures for geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

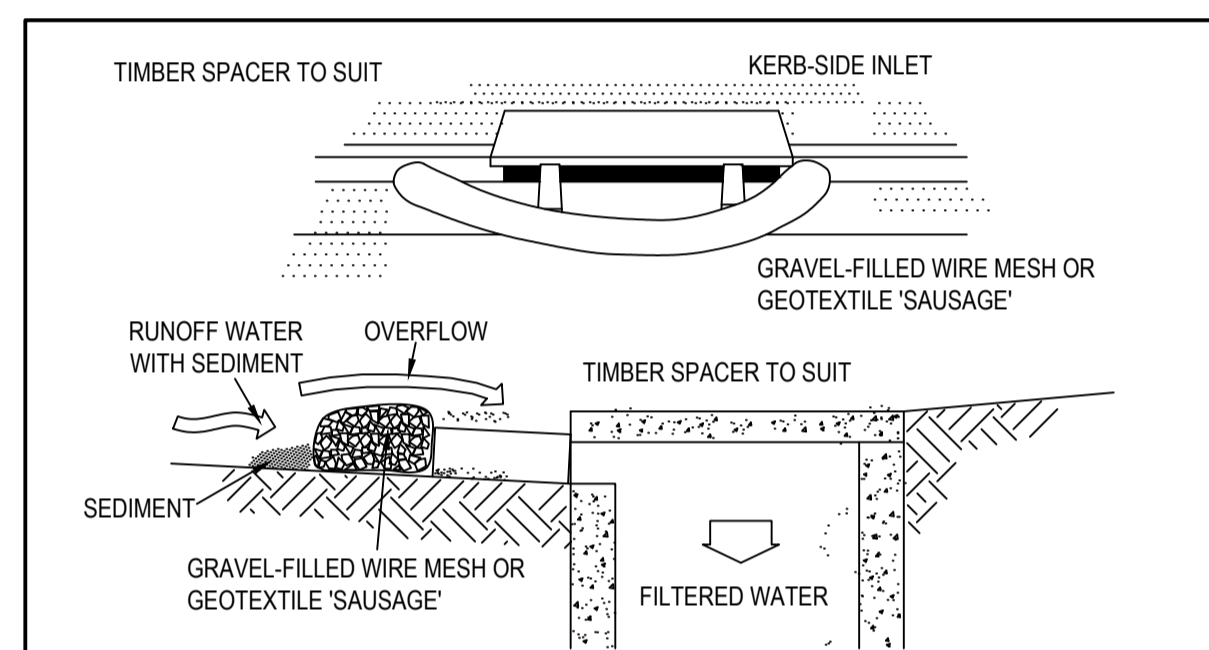
GEOTEXTILE INLET FILTER

SD 6-12



STABILISED SITE ACCESS

SD 6-14



Construction Notes:

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER

SD 6-11

NOTE:

ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE PLACED WHOLLY WITHIN THE SUBJECT SITES AND NOT EXTEND INTO ADJACENT PROPERTY WITHOUT LANDOWNER CONSENT.

FOR CLARITY PURPOSES SOME FENCES HAVE BEEN SHOWN OUTSIDE THE SITE BOUNDARY. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THESE FENCES ARE CONTAINED WITHIN THE SITE AND NOT ENCR OACH INTO ANY ADJACENT LAND.

ADJOINING OWNER'S CONSENT REQUIRED FOR ANY SEDIMENT & EROSION CONTROL DEVICES ON THEIR LAND.

ISSUED FOR **50% TENDER**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	EM	SB	SB	SB	28/08/2024	ISSUED FOR 50% TENDER

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Scale:

For:



By:



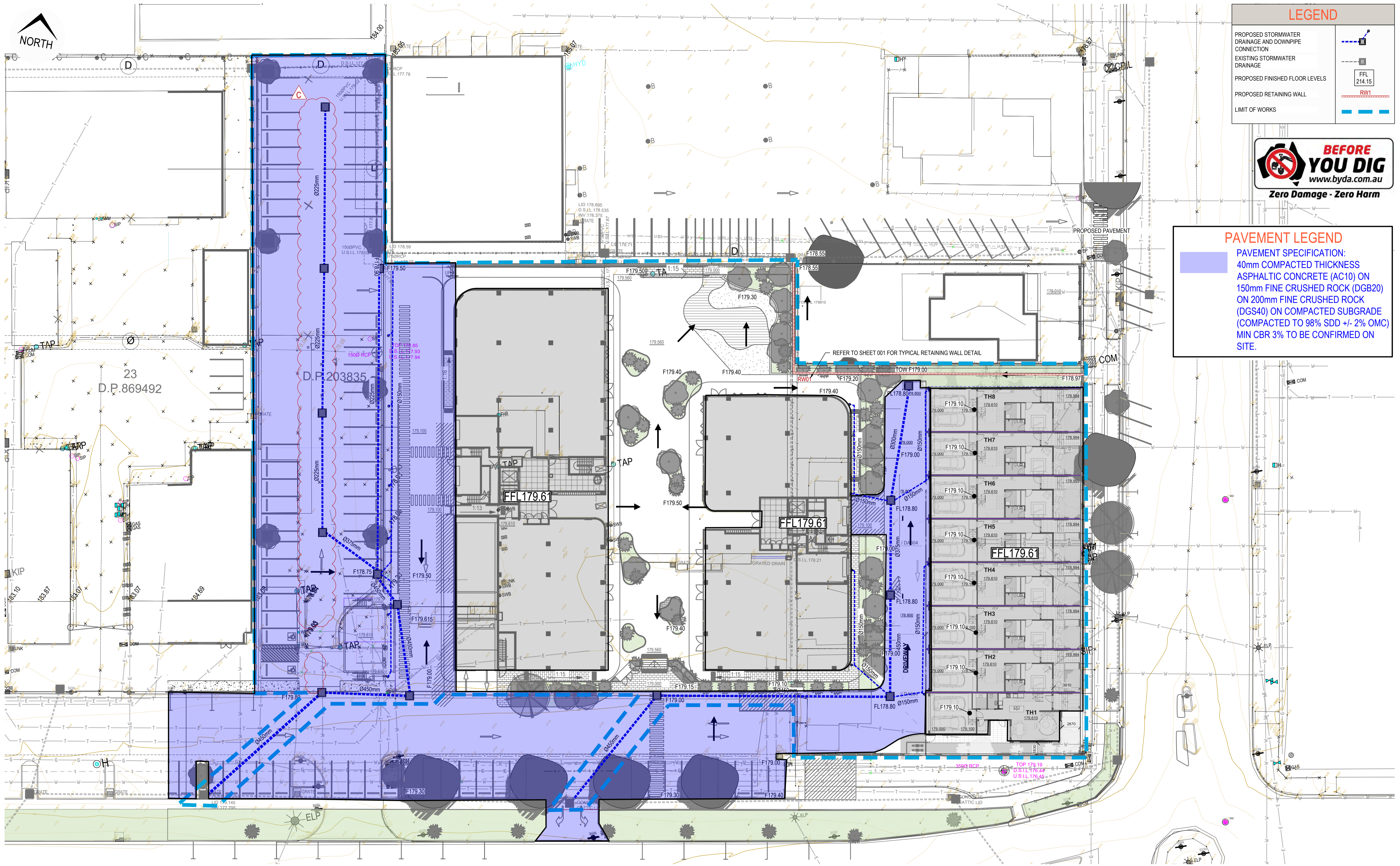
Project:

CIVITAS STAGE 3

Title:

SEDIMENT & EROSION CONTROL NOTES & DETAILS

Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	101	A



LEGEND

- PROPOSED STORMWATER DRAINAGE AND DOWNPIPE CONNECTION
- EXISTING STORMWATER DRAINAGE
- PROPOSED FINISHED FLOOR LEVELS
- PROPOSED RETAINING WALL
- LIMIT OF WORKS



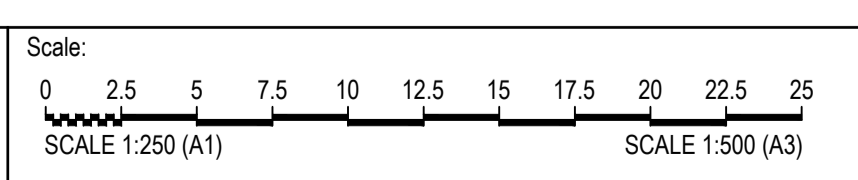
PAVEMENT LEGEND

PAVEMENT SPECIFICATION:
 40mm COMPACTED THICKNESS ASPHALTIC CONCRETE (AC10) ON 150mm FINE CRUSHED ROCK (DGB20) ON 200mm FINE CRUSHED ROCK (DGS40) ON COMPACTED SUBGRADE (COMPACTED TO 98% SDD +/- 2% OMC) MIN CBR 3% TO BE CONFIRMED ON SITE.

ISSUED FOR **50% TENDER**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	EM	SB	SB	SB	21/10/2024	ISSUED FOR 50% TENDER
A	EM	SB	SB	SB	28/08/2024	ISSUED FOR 50% TENDER

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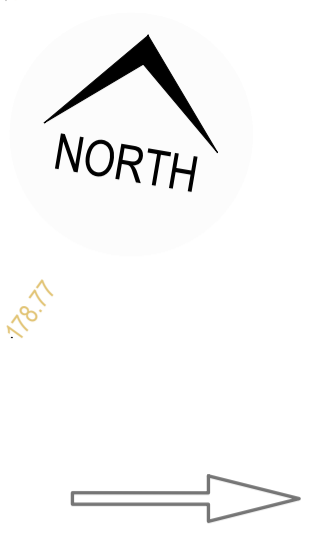
For: **damasa** architecture
Damasa Pty Ltd
 ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

By: **ORION**
 SUSTAINABLE
 JAS-ANZ
 CIVITAS STAGE 3

Project: CIVITAS STAGE 3
 Title: PAVEMENT PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	200	B

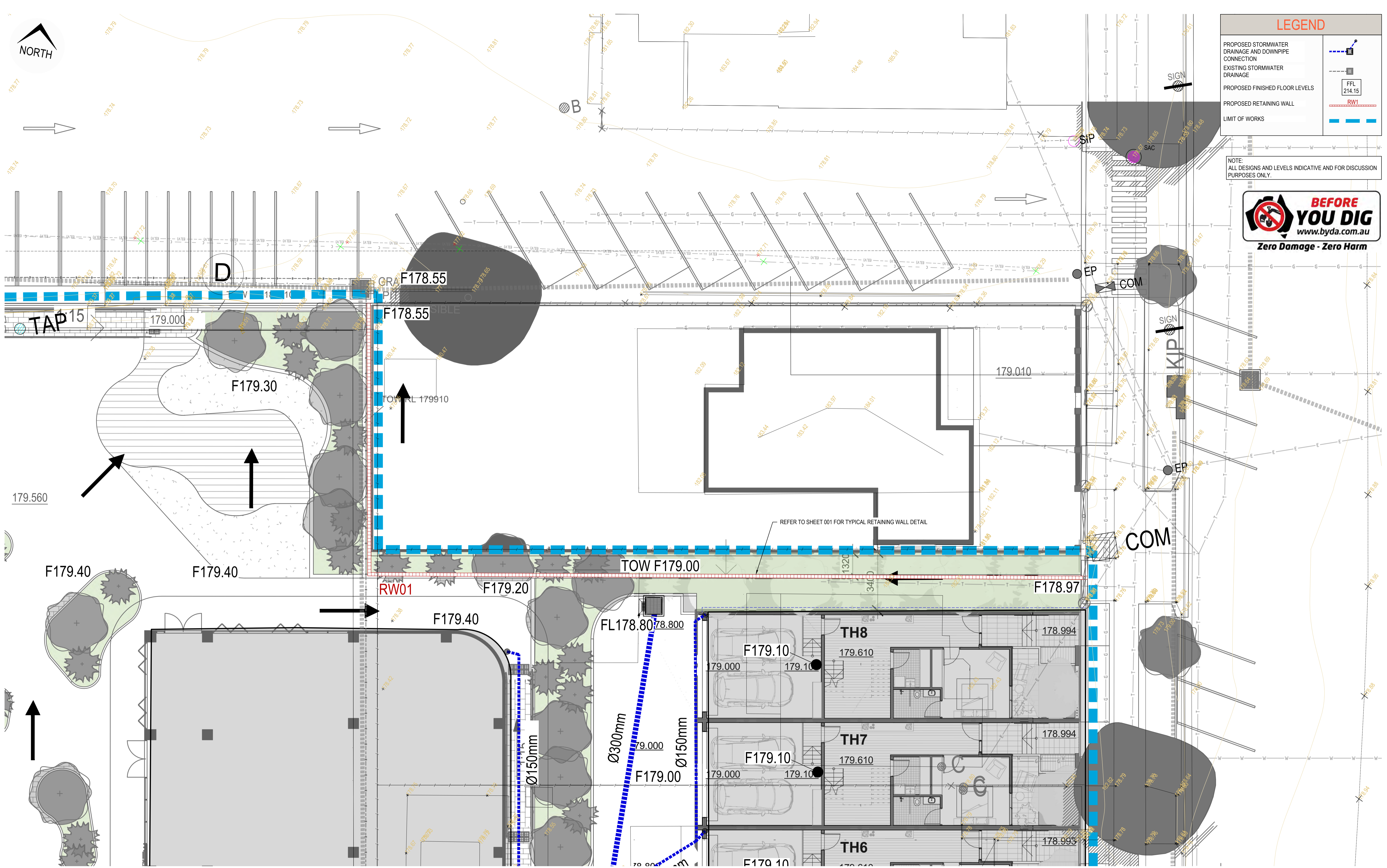
Document Set ID: 6529404
 Version: 1, Version Date: 05/11/2024



LEGEND

- PROPOSED STORMWATER DRAINAGE AND DOWNPIPE CONNECTION
- EXISTING STORMWATER DRAINAGE
- PROPOSED FINISHED FLOOR LEVELS
- PROPOSED RETAINING WALL
- LIMIT OF WORKS

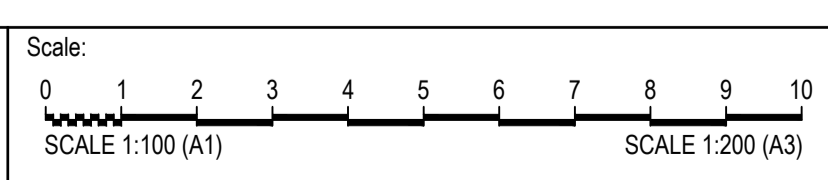
NOTE: ALL DESIGNS AND LEVELS INDICATIVE AND FOR DISCUSSION PURPOSES ONLY.



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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	EM	SB	SB	SB	28/08/2024	ISSUED FOR 50% TENDER

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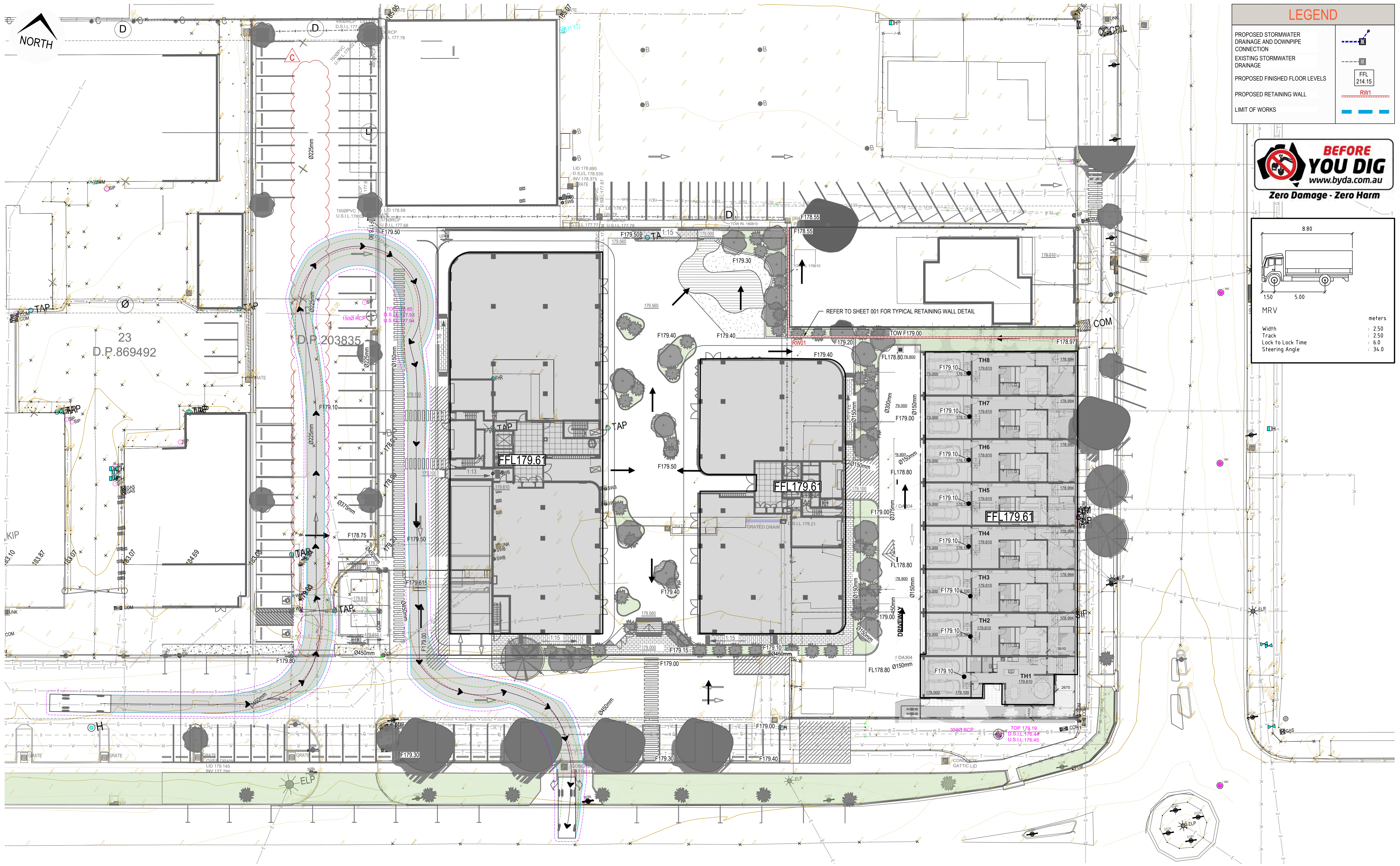
For: **Damasa** Pty Ltd

By: **ORION**

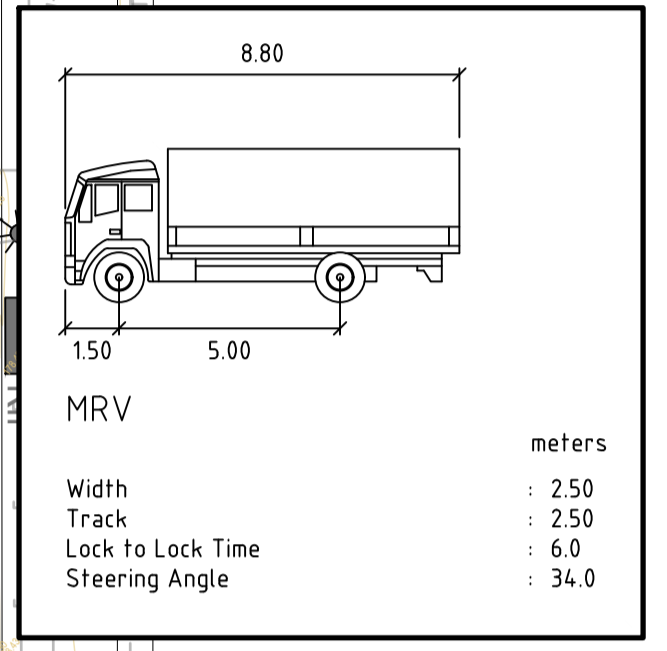
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Project: **CIVITAS STAGE 3**

Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	210	A



LEGEND	
PROPOSED STORMWATER DRAINAGE AND DOWNPIPE CONNECTION	
EXISTING STORMWATER DRAINAGE	
PROPOSED FINISHED FLOOR LEVELS	
PROPOSED RETAINING WALL	
LIMIT OF WORKS	



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B	EM	SB	SB	SB	21/10/2024	ISSUED FOR 50% TENDER
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Project: CIVITAS STAGE 3

Project No.	Set No.	Milestone	Plan	Revision
23-0762	02	TD	220	B