

LEGEND

- SITE BOUNDARY
- ARCHITECTURAL FLOOR PLAN
- PROPOSED STORMWATER (SIZE AND TYPE)
- EXISTING STORMWATER (SIZE AND TYPE)
- PROPOSED GRATED INLET/JUNCTION PIT
- PROPOSED KERB INLET PIT
- PROPOSED GRATED TRENCH DRAIN
- PROPOSED WATER QUALITY CHAMBER
- INDICATIVE DOWNPIPE LOCATION
- PROPOSED GRATED INLET/JUNCTION PIT
- EXISTING KERB INLET PIT
- EXISTING TREE
- PERVIOUS CATCHMENT AREAS (SUPERIMPOSED FROM ALL LEVELS)
- FLOOD STORAGE AREAS (APPROX. 800 KL)
- EXTENT OF THE ROOF OVER GROUND LEVEL
- EXTENT OF TOWER

EXISTING SERVICES

- EXISTING ELECTRICITY
- EXISTING GAS
- EXISTING WATER
- EXISTING TELSTRA
- EXISTING SEWER

STORMWATER NOTES

SITE AREA = 4,724 m²
IMPERVIOUS AREA = 3,963 m² (84%)
OSD MIN. REQUIRED = (20mm x 4,719 m²) = 95 KL
OSD PROVIDED = 131 KL

PERVIOUS AREA BUILD-UP:
GROUND = 163 m²
PODIUM / ROOF = 592 m²
TOTAL PERVIOUS SURFACE = 755 (16%)

ROOF AREA TO RWT = 1574 m²
RWT SIZE = 5550L (BASIX COMMITMENT)
RWT CONNECTED TO EXTERNAL IRRIGATION

NOTES

- SITE LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION
- DOWNPIPE CONNECTIONS TO BE LAID BELOW GROUND WITH MINIMUM 250mm COVER TO AS3500.3 AND MINIMUM 1% SLOPE
- FINAL DOWNPIPE POSITIONS TO BE COORDINATED WITH ARCHITECT AND HYDRAULIC CONSULTANT THROUGH DETAIL DESIGN DEVELOPMENT
- PUBLIC AUTHORITY SERVICES DRAWN ARE DIGITISED FROM DIAL BEFORE YOU DIG ONLY AND SHOULD NOT BE RELIED UPON FOR DETAIL DESIGN

STORMWATER DRAINAGE NOTES

- THE STORMWATER DESIGN SHOWN ON THESE DRAWINGS HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE CITY OF NEWCASTLE'S REQUIREMENTS, AUSTRALIAN RAINFALL AND RUNOFF (AR&R) GUIDELINES AND RELEVANT AUTHORITIES GUIDELINES.
- FINISHED SURFACE LEVELS SHOWN ON CIVIL GRADING PLAN DRAWINGS TAKE PRECEDENCE OVER DRAINAGE LONGSECTION SURFACE LEVELS.
- ALL STORMWATER WORK IS TO COMPLY WITH AS3500 PART 3.
- PROTECTION OF PIPES EXPOSED TO LOADS EXCEEDING THE W8 WHEEL LOAD OF 80KN SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- NO CONSTRUCTION LOADS SHALL BE APPLIED TO UPVC PIPES.
- EXISTING STORMWATER PIPE LOCATIONS AND INVERT LEVELS TO BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- FOR ALL STORMWATER DRAINAGE PITS REFER TO TYPICAL PIT CHAMBER DETAILS ON THESE DRAWINGS. IF 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.
- GALVANIZED STEP IRONS SHALL BE PROVIDED AT 300 CTRS FOR PITS HAVING A DEPTH EXCEEDING 1200mm
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE PIPES (RCP) CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS UNO.
- PIPES UP TO 300 DIA. SHALL BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED IF RELEVANT APPROVAL AUTHORITY AND SUPERINTENDENT PERMITS.
- BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS.
- PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES BACKFILL TRENCH WITH SAND TO 200mm ABOVE THE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 (OR A DENSITY INDEX OF NOT LESS THAN 75).
- WHERE TRENCHES ARE IN ROCK THE PIPE SHALL BE BEDDED ON A MINIMUM OF 50mm CONCRETE BED (OR 75mm BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE.
- ENLARGERS, CONNECTORS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- GRATES AND COVERS SHALL CONFORM TO AS3996 AND AS1428.1 AT ALL TIMES DURING CONSTRUCTION OF THE STORMWATER PITS.
- ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT AND ENGINEER FOR FURTHER DIRECTIONS.

PLAN
SCALE 1:250



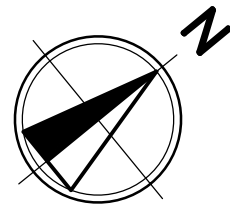
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711 HUNTER STREET
NEWCASTLE

STATUS			
ISSUED FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
HA	NH	BC	BC
DATUM	GRID	SCALE	
AHD	ASSUMED	AS SHOWN	

TITLE		
STORMWATER MANAGEMENT PLAN GROUND LEVEL		
PROJECT No.	DRAWING No.	REV
N21112	CI-0200	C



LITTLE KING STREET

STORMWATER DRAINAGE NOTES

1. THE STORMWATER DESIGN SHOWN ON THESE DRAWINGS HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE CITY OF NEWCASTLE'S REQUIREMENTS, AUSTRALIAN RAINFALL AND RUNOFF (AR&R) GUIDELINES AND RELEVANT AUTHORITIES GUIDELINES.
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3. ALL STORMWATER WORK IS TO COMPLY WITH AS3500 PART 3.
4. PROTECTION OF PIPES EXPOSED TO LOADS EXCEEDING THE W8 WHEEL LOAD OF 80kN SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
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6. EXISTING STORMWATER PIPE LOCATIONS AND INVERT LEVELS TO BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. FOR ALL STORMWATER DRAINAGE PITS REFER TO TYPICAL PIT CHAMBER DETAILS ON THESE DRAWINGS. IF 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.
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10. PIPES UP TO 300 DIA. SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
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13. PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES BACKFILL TRENCH WITH SAND TO 200mm ABOVE THE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 (OR A DENSITY INDEX OF NOT LESS THAN 75).
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17. GRATES AND COVERS SHALL CONFORM TO AS3996 AND AS1428.1 AT ALL TIMES DURING CONSTRUCTION OF THE STORMWATER PITS.
18. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT AND ENGINEER FOR FURTHER DIRECTIONS.

KING STREET

1 NATIONAL PARK STREET

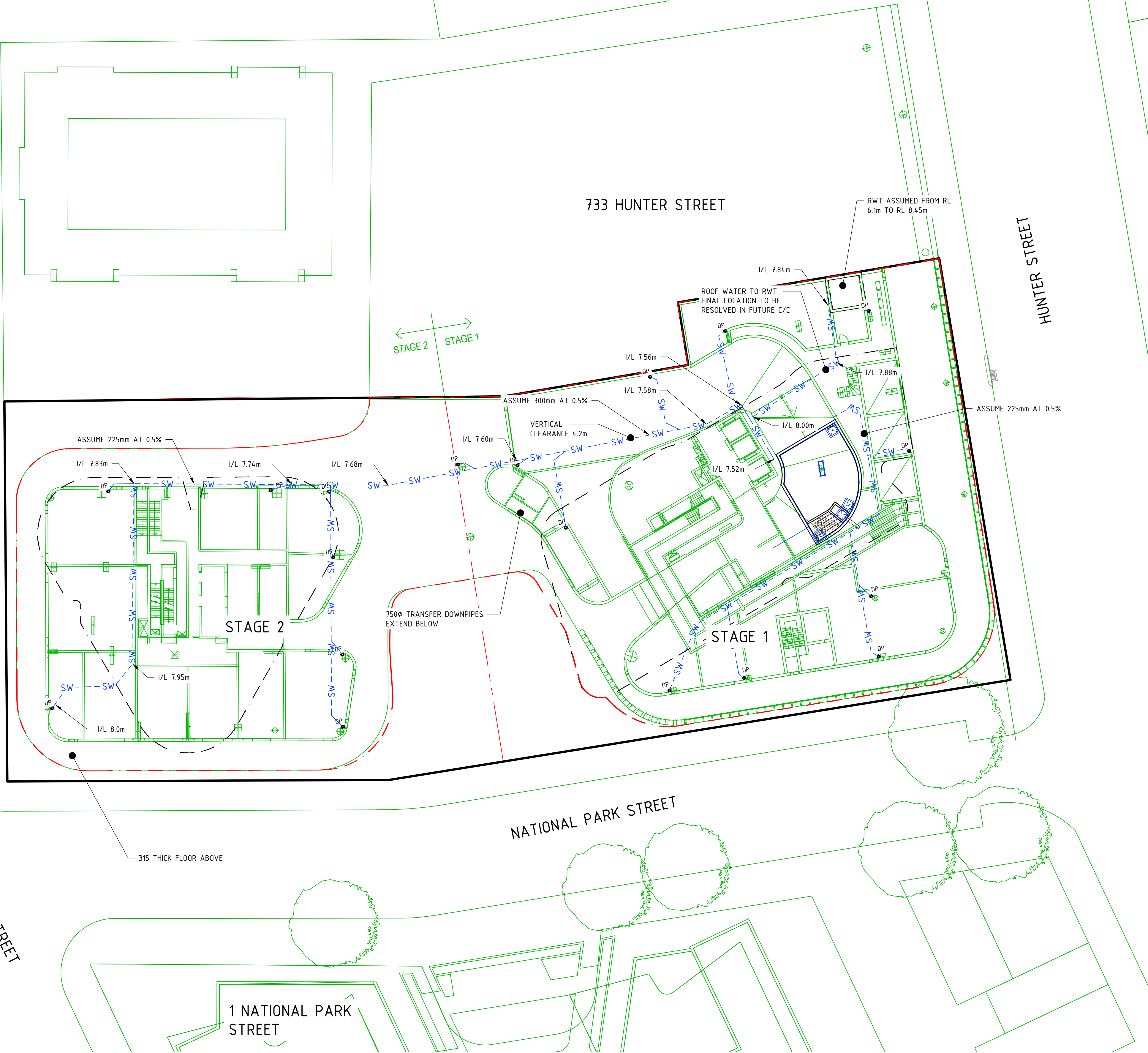
733 HUNTER STREET

HUNTER STREET

NATIONAL PARK STREET

LEGEND

- SITE BOUNDARY
- ARCHITECTURAL FLOOR PLAN
- Ø375 uPVC
- SW --- SW --- PROPOSED STORMWATER DOWNPIPE LOCATION
- () INDICATIVE RAIN WATER TANK LOCATION TBC AT LATER STAGE
- FW INDICATIVE FLOOR WASTE LOCATION
- DP INDICATIVE DOWNPIPE LOCATION
- PERVIOUS CATCHMENT AREAS (SUPERIMPOSED FROM ALL LEVELS)
- FLOOD STORAGE AREAS (APPROX. 800 kL)
- EXTENT OF THE ROOF OVER GROUND LEVEL
- EXTENT OF TOWER



PLAN
SCALE 1:250

0 2.5 5.0 7.5 10 12.5 15m
SCALE 1:250 AT A1 SIZE

REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
A	18.05.23	ISSUED FOR INFORMATION	BC		
REV		DATE	REV		DATE
REVISIONS			REVISIONS		

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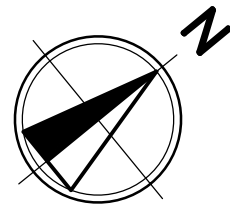


711 HUNTER STREET
NEWCASTLE

STATUS			
ISSUED FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
JL	NH	BC	BC
DATUM	GRID	SCALE	
AHD	ASSUMED	AS SHOWN	

TITLE		
STORMWATER MANAGEMENT PLAN MEZZANINE LEVEL		
PROJECT No.	DRAWING No.	REV
N21112	CI-0201	A

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STORMWATER DRAINAGE NOTES

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LEGEND

- SITE BOUNDARY
- ARCHITECTURAL FLOOR PLAN
- Ø375 uPVC
- SW --- SW --- PROPOSED STORMWATER DOWNPIPE LOCATION
- (---) INDICATIVE RAIN WATER TANK LOCATION TBC AT LATER STAGE
- FW INDICATIVE FLOOR WASTE LOCATION
- DP INDICATIVE DOWNPIPE LOCATION
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- EXTENT OF TOWER

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KING STREET

1 NATIONAL PARK STREET

NATIONAL PARK STREET

733 HUNTER STREET

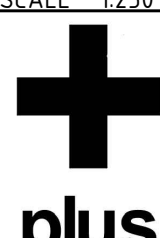
HUNTER STREET

PLAN
SCALE 1:250

0 2.5 5.0 7.5 10 12.5 15m
SCALE 1:250 AT A1 SIZE

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A	18.05.23	ISSUED FOR INFORMATION	BC		
REV		DESCRIPTION	REV		DESCRIPTION
REV		DESCRIPTION	REV		DESCRIPTION

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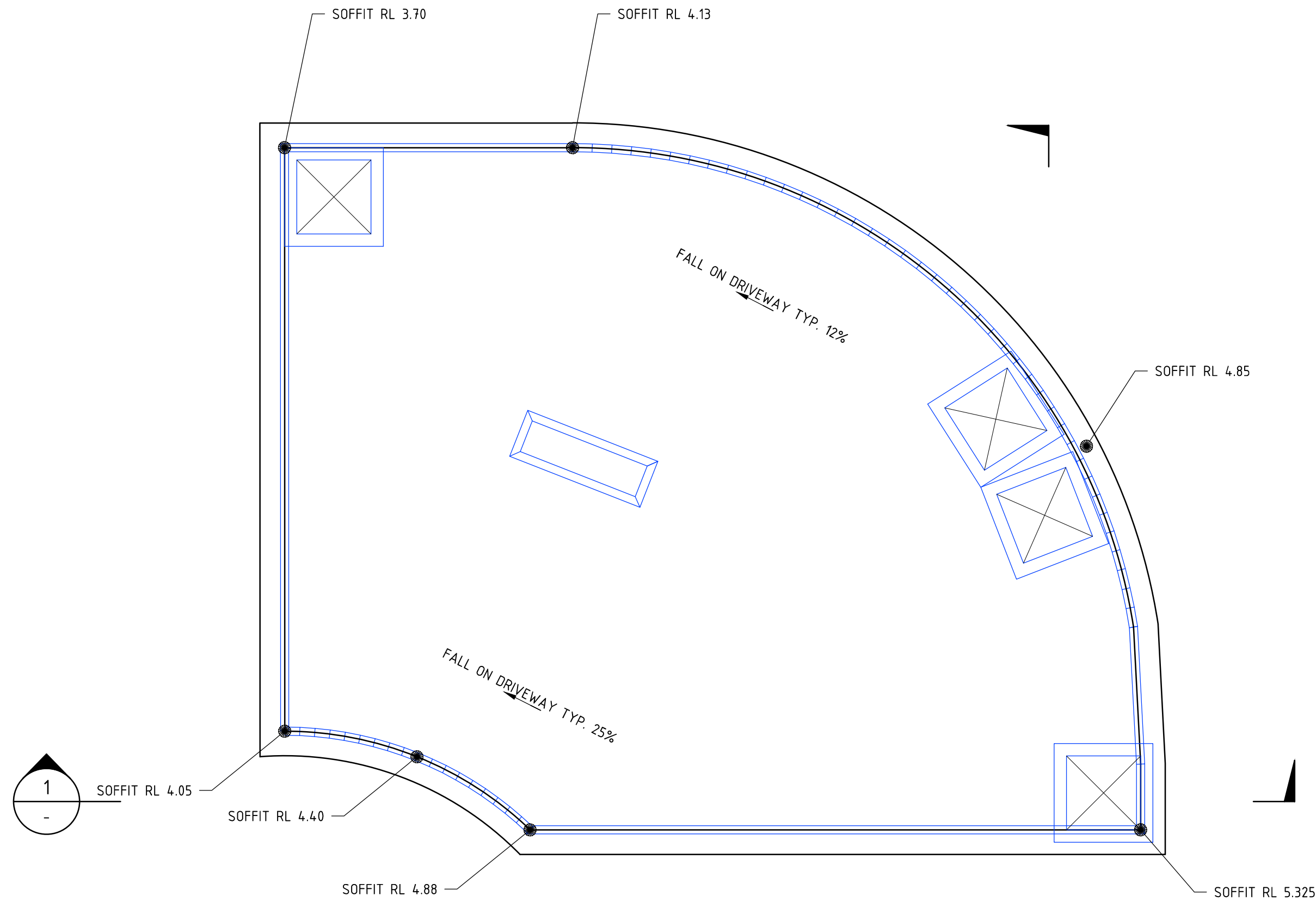


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NEWCASTLE

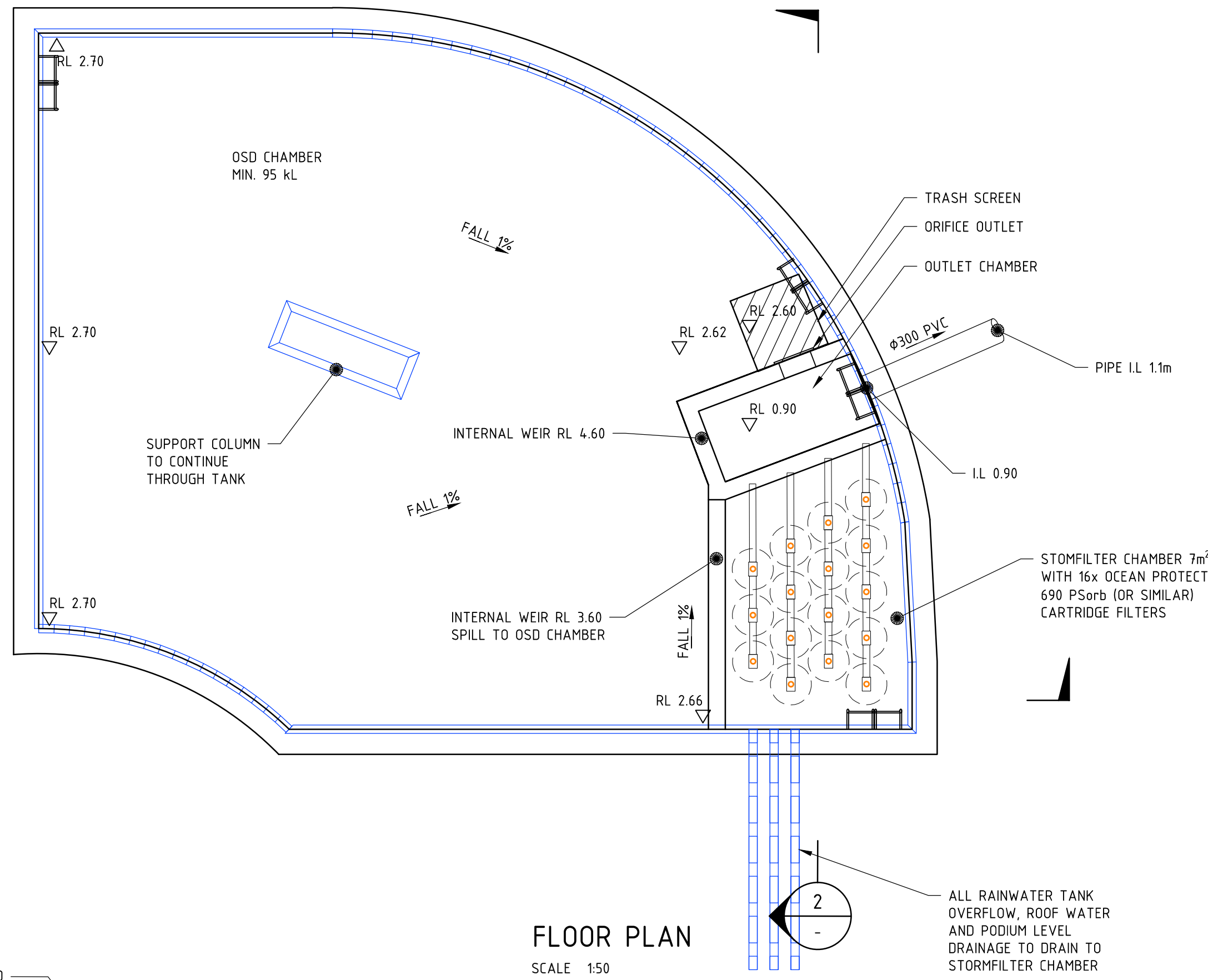
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ISSUED FOR INFORMATION			
NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
JL	NH	BC	BC
DATUM	GRID	SCALE	AT
AHD	ASSUMED	AS SHOWN	A1 SIZE

TITLE		
STORMWATER MANAGEMENT PLAN LEVEL 5		
PROJECT No.	DRAWING No.	REV
N21112	CI-0206	A

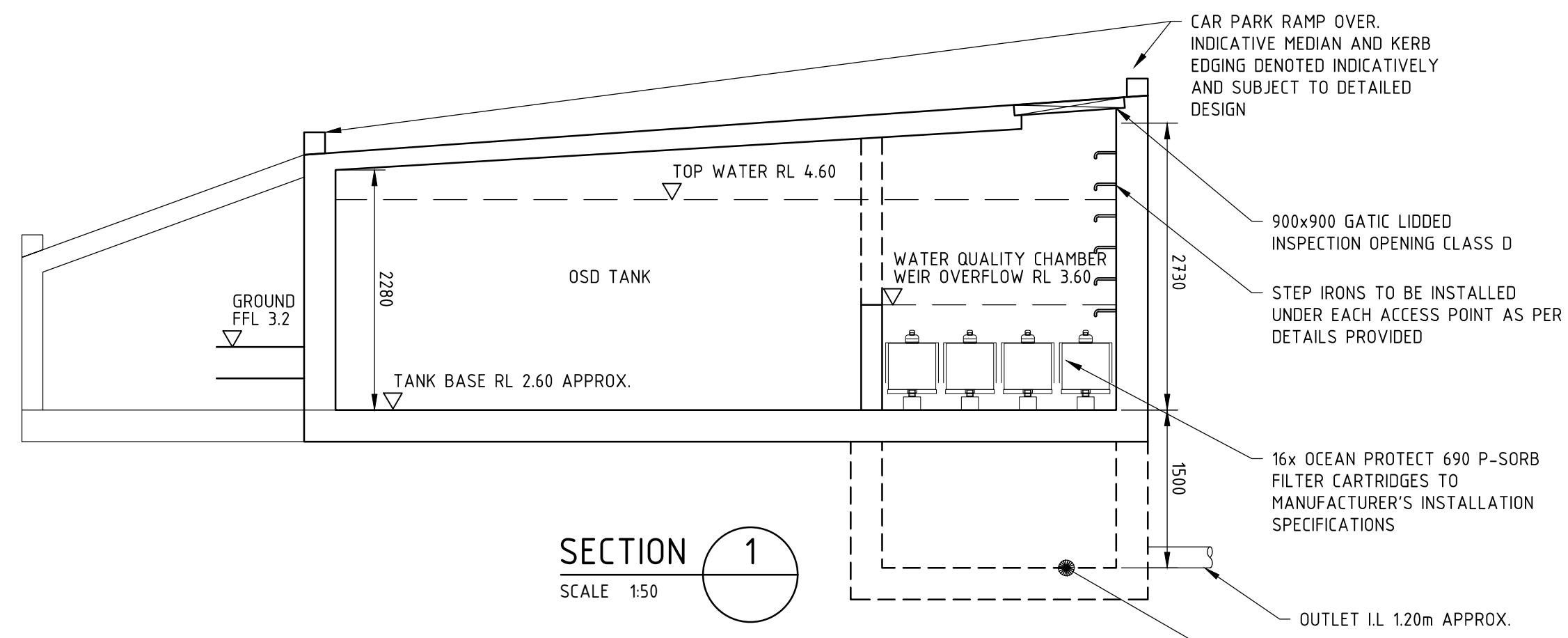
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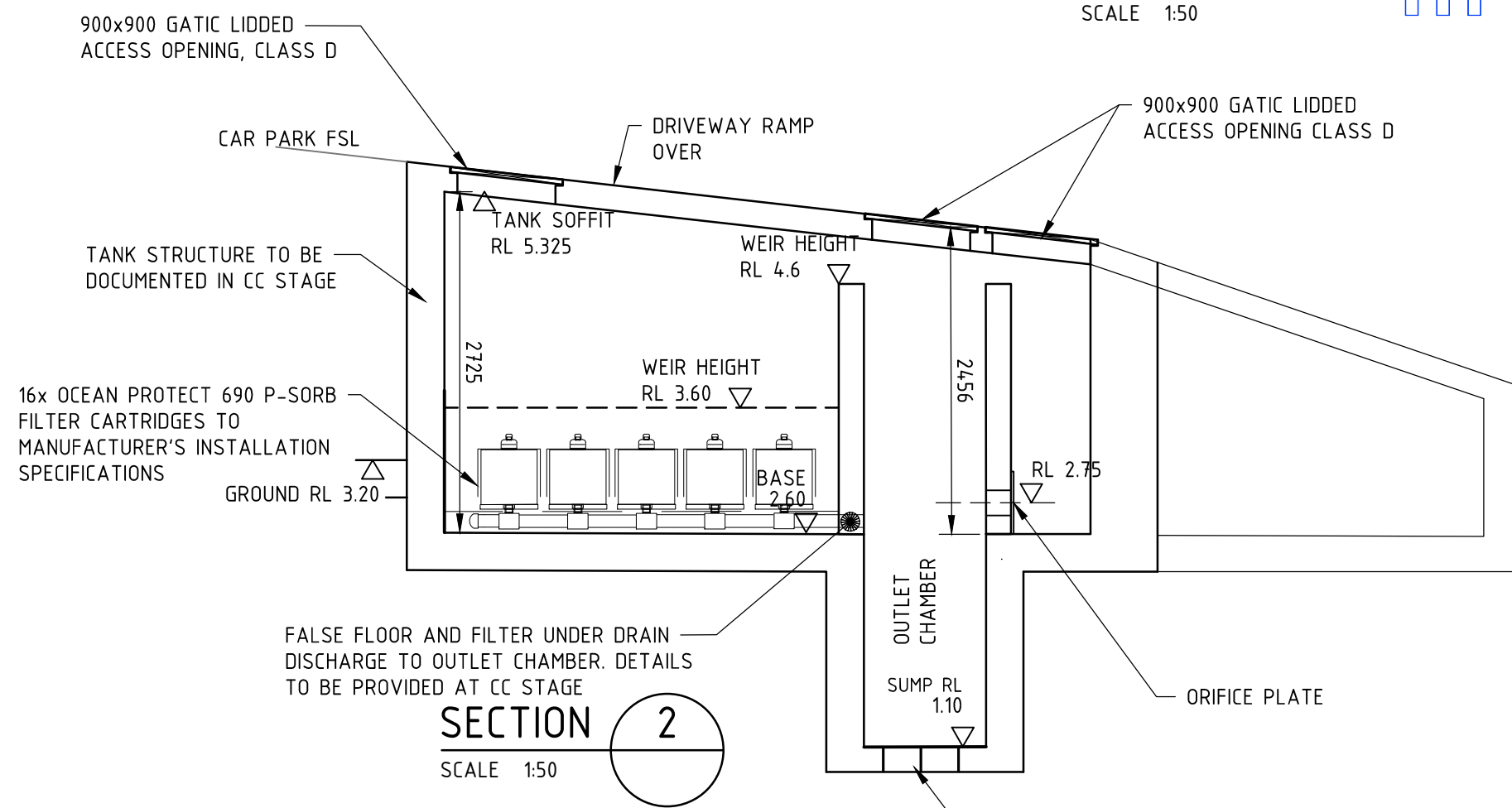
ROOF PLAN
SCALE 1:50



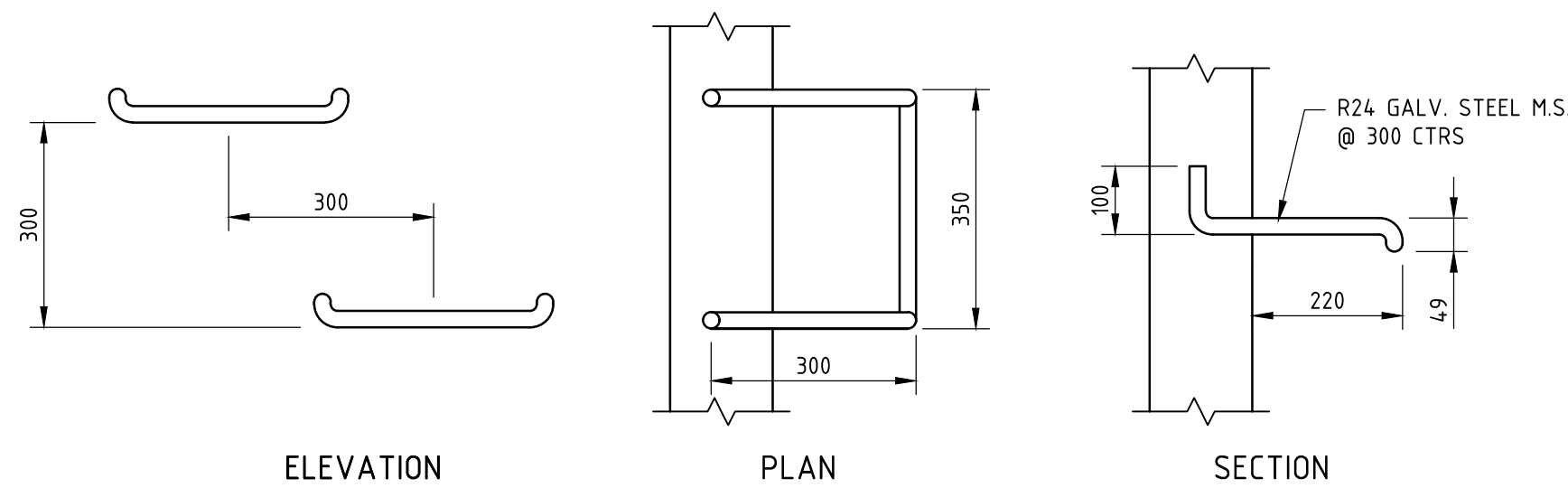
FLOOR PLAN
SCALE 1:50



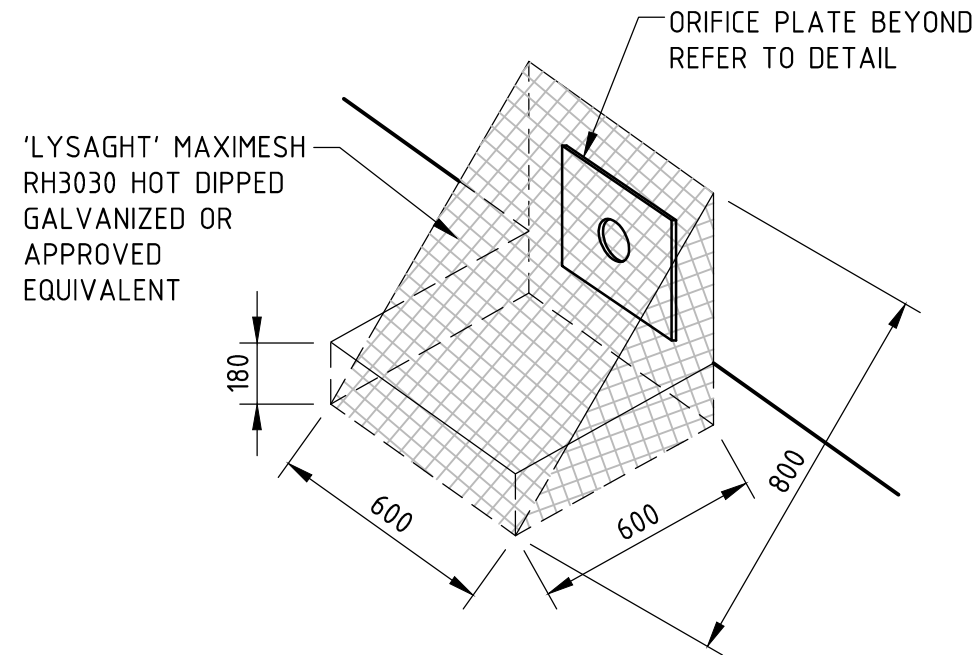
SECTION 1
SCALE 1:50



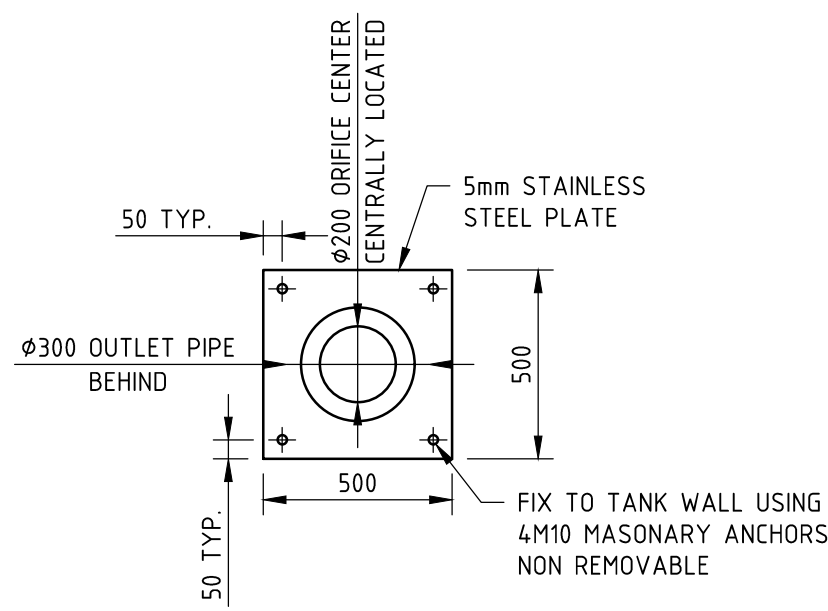
SECTION 2
SCALE 1:50



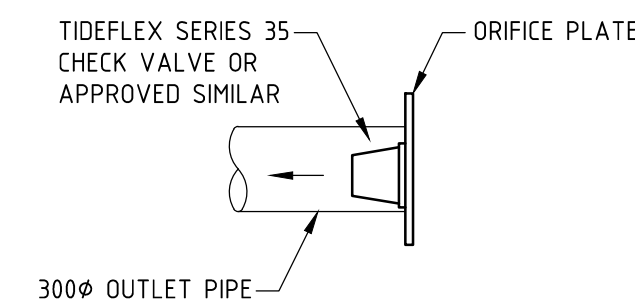
TYPICAL STEP IRON DETAILS
SCALE 1:10



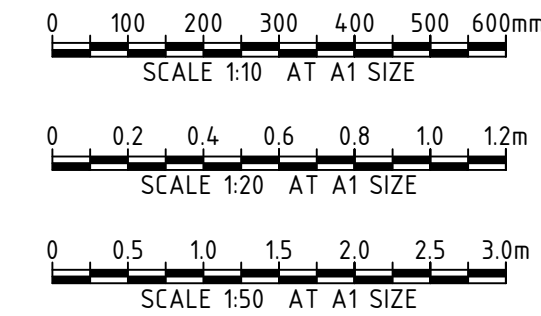
TRASH SCREEN DETAIL
N.T.S.



Ø200 ORIFICE PLATE DETAIL
SCALE 1:20



OSD TANK OUTLET PIPE DETAILS
N.T.S.



REVISIONS				REVISIONS			
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
A	16.10.22	ISSUED FOR PRELIMINARY DA COORDINATION	BC				



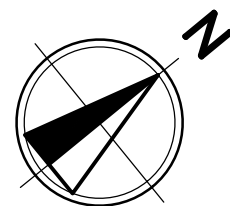
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711 HUNTER STREET
NEWCASTLE

STATUS			
ISSUED FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION			
DRAWN HA	DESIGNED NH	CHECKED BC	APPROVED BC
DATUM AHD	GRID ASSUMED	SCALE AS SHOWN	AT A1 SIZE

TITLE		
OSD PLAN AND SECTIONS		
PROJECT No. N21112	DRAWING No. CI-0350	REV A



LEGEND

- SITE BOUNDARY
- EXISTING TREE
- PROPOSED GRATED INLET PIT
- STABILISED SITE ACCESS
- MESH & GRAVEL INLET FILTER
- SECURITY FENCE
- SEDIMENT FENCE

EXISTING SERVICES

- EXISTING ELECTRICITY
- EXISTING GAS
- EXISTING WATER
- EXISTING TELSTRA
- EXISTING SEWER

EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RELEVANT AUTHORITY GUIDELINES AND ANY DETAILS SHOWN ON THESE DRAWINGS.
- ALL PERIMETER AND SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTHWORKS AND/OR DEMOLITION.
- THE EROSION AND SEDIMENT CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN EROSION AND SEDIMENT 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 SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. DAMAGED SEDIMENT TRAPPING STRUCTURES ARE TO BE REPAIRED AND ANY TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE (AWAY FROM TREES AND DRAINAGE LINES) IN ACCORDANCE WITH DETAILS PROVIDED AND WITH RELEVANT AUTHORITY GUIDELINES. MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS. DUST SUPPRESSION SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT AUTHORITIES GUIDELINES.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY RELEVANT AUTHORITY, SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- 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.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.
- ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT AS PER DETAILS PROVIDED OR WITH RELEVANT AUTHORITY GUIDELINES.
- ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING SITE TO LIMIT SEDIMENT TRACKING TO ROADWAYS.

0 2.5 5.0 7.5 10 12.5 15m
SCALE 1:250 AT A1 SIZE

PLAN
SCALE 1:250



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711 HUNTER STREET
NEWCASTLE

STATUS			
ISSUED FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION			
DRAWN HA	DESIGNED NH	CHECKED BC	APPROVED BC
DATUM AHD	GRID ASSUMED	SCALE AS SHOWN	AT A1 SIZE

EROSION AND SEDIMENT
CONTROL PLAN

PROJECT No. N21112	DRAWING No. CI-0700	REV B
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REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
B	14.10.22	ISSUED FOR PRELIMINARY DA COORDINATION	BC		
A	07.10.22	ISSUED FOR PRELIMINARY DA COORDINATION	BC		
REV	DATE	DESCRIPTION	RVD	REV	DATE
REVISIONS			REVISIONS		

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