78 CHISHOLM AVE, AVALON BEACH STORMWATER MANAGEMENT PLAN

DRAWING INDEX:

DR-000 LEGEND

DR-001 PIPE LAYOUT - LOWER GROUND FLOOR

DR-002 PIPE LAYOUT - GROUND FLOOR

DR-003 ROOF LAYOUT

DR-004 DETAILS

DR-005 SITE AREAS

DR-006 DRAINAGE CALCULATIONS

LEGEND:



DOWNPIPE



STORMWATER PIPE



DRAINAGE PIT



INSPECTION OPENING

NOTES:

- 1. ALL DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
- 2. SITE LAYOUT BASED ON ARCHITECTURAL PLANS BY EJE

 ARCHITECTURE (NOVEMBER/2021)
- 3. LOCATION OF ALL SERVICES MUST BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
- 4. ALL STORMWATER DRAINAGE PIPES AND ASSOCIATED

 DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE

 RELEVANT STANDARDS, THE BUILDING CODE OF

 AUSTRALIA, MANUFACTURER'S RECOMMENDATIONS, SYDNEY

 CATCHMENT AUTHORITY RECOMMENDED PRACTICE, AND

 LOCAL COUNCIL, AS APPLICABLE.
- 5. ALL INVERT LEVELS PROVIDED ON THIS DRAWING ARE
 REDUCED TO AHD AND BASED ON INTERPOLATED SURFACE
 LEVELS AND SYSTEM REQUIREMENTS.

- 6. WHERE POSSIBLE, PIPEWORK SHALL BE LOCATED EXTERNAL TO THE BUILDING.
- 7. DOWNPIPES AND STORMWATER LINES TO BE SEALED DN100 upvc unless otherwise noted.
- 8. STORMWATER PIPES TO BE GRADED AT A MINIMUM 1% UNLESS NOTED OTHERWISE.
- 9. ALTERNATIVE GUTTER AND DOWNPIPE CONFIGURATION MAY

 BE INSTALLED PROVIDED IT COMPLIES WITH AS3500.
- 10. ALL PIPE AND CONDUITS TO BE MARKED IN ACCORDANCE
 WITH AS1345 1995.
- 11. TRENCHES AND SERVICE SEPARATIONS IN ACCORDANCE WITH AS/NZS 5601, AS/NZS 3500, AND AS/CA S009.

NOT FOR CONSTRUCTION

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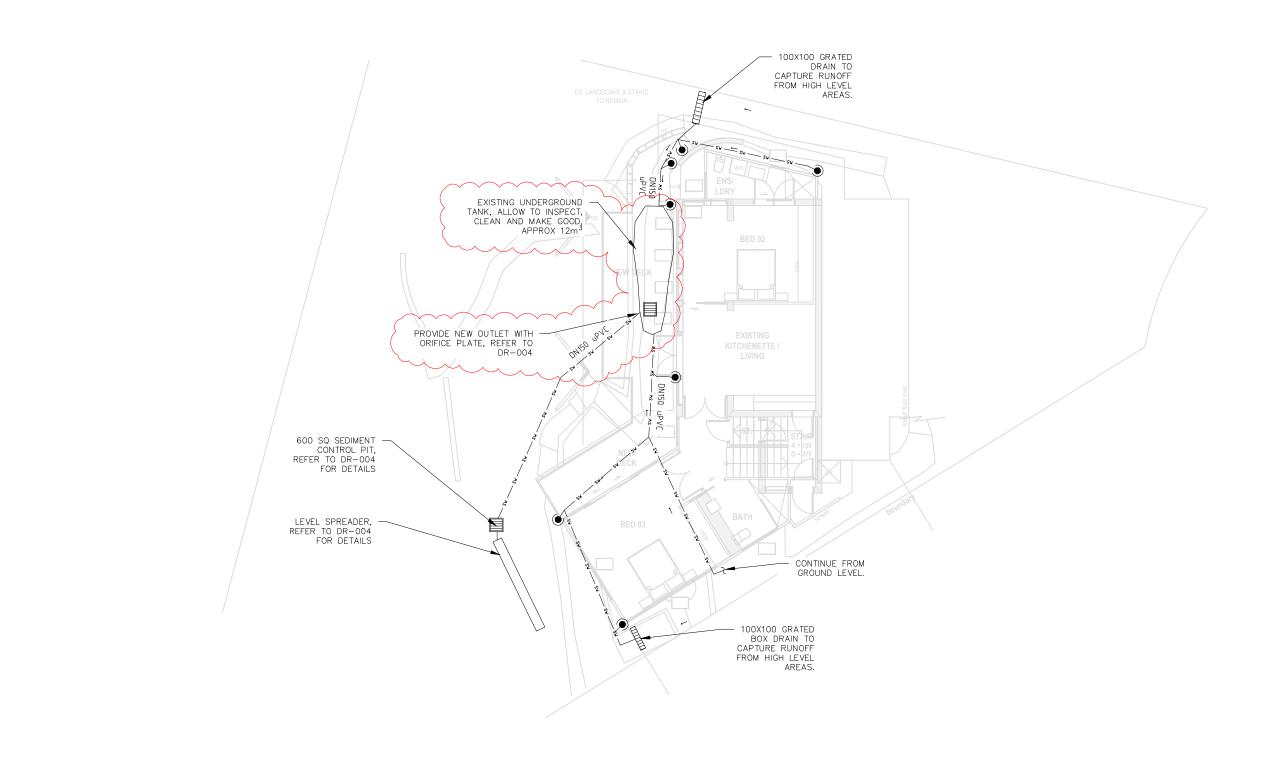
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		78 CHISHOLM AVE, AVA	LON BEACH	
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PIPE LAYOUT-LOWER GROUND FLOOR

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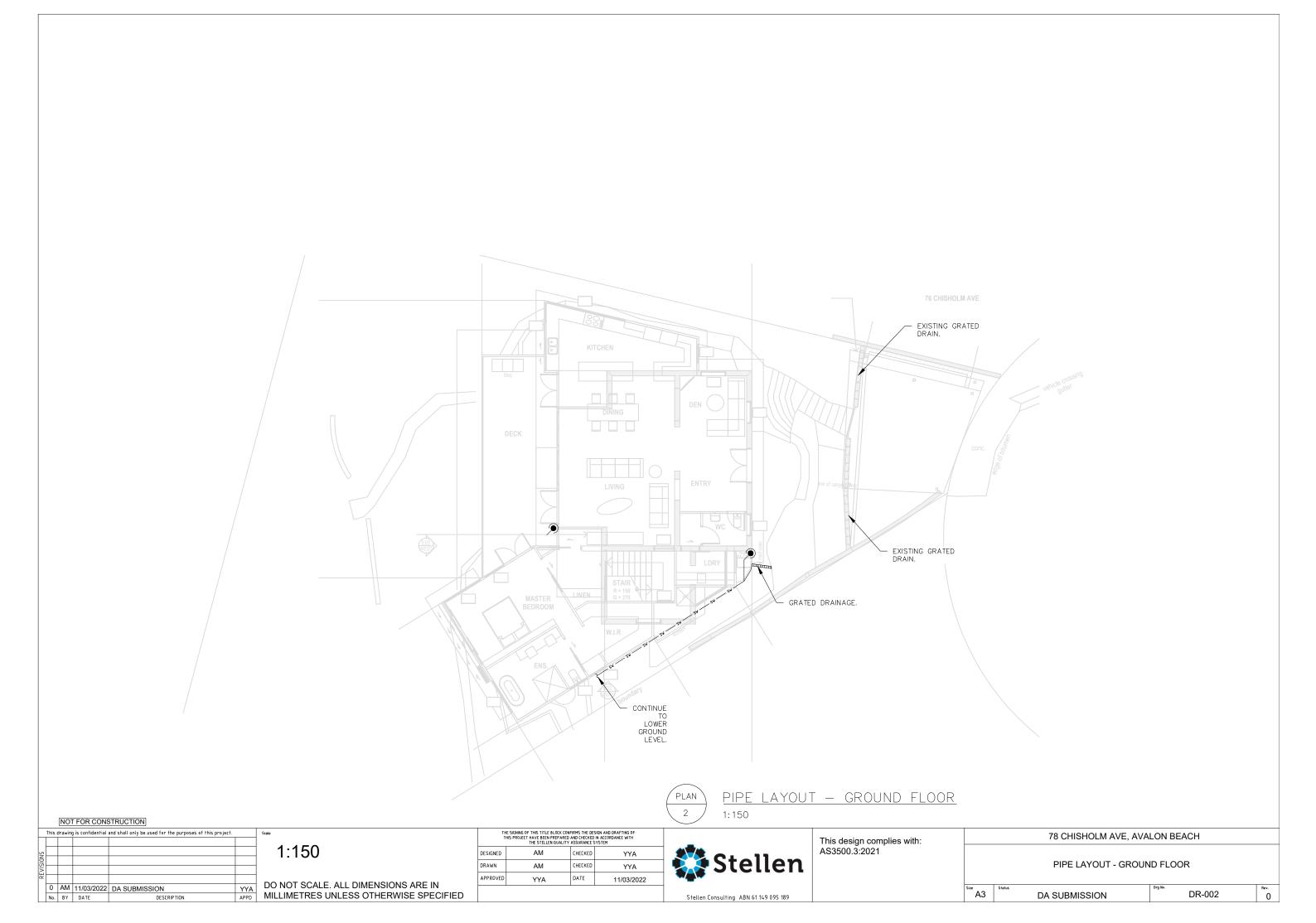
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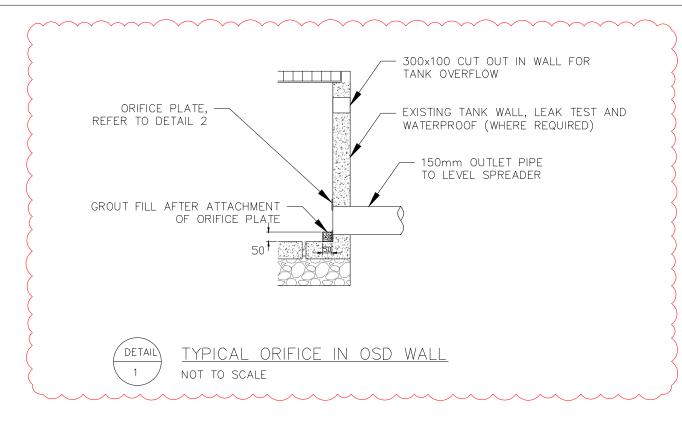
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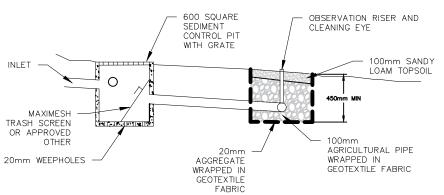
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AS3500.3̃:2021 ່			PIPE LAYOUT - LOWER GR	OUND FLOOR	
	Size A3	Status	DA SUBMISSION	DR-001	Rev.



NOMENCLATURE DP - DOWNPIPE EG - EAVES GUTTER Q100 - 100YR 5 MINUTE ARI FLOW RATE GUTTER SIZING EAVE GUTTER DESIGNED TO ARI (100YR:287mm/hr) EG1 - MIN CSA 10,000 mm² EG2 - MIN CSA 5,700 mm² LEGEND DOWNPIPE TYPE AND DIAMETER DIRECTION OF FALL DOWNPIPE LEVEL SPREADER DP 100 ROOF LAYOUT 1:150 NOT FOR CONSTRUCTION 78 CHISHOLM AVE, AVALON BEACH This design complies with: AS3500.3:2021 1:150 DESIGNED CHECKED YYA**ROOF LAYOUT** DRAWN CHECKED YYA APPROVED DATE YYA 11/03/2022 DO NOT SCALE. ALL DIMENSIONS ARE IN 0 AM 11/03/2022 DA SUBMISSION * A3 DR-003 MILLIMETRES UNLESS OTHERWISE SPECIFIED DA SUBMISSION 0 Stellen Consulting ABN 61 149 095 189 No. BY DATE





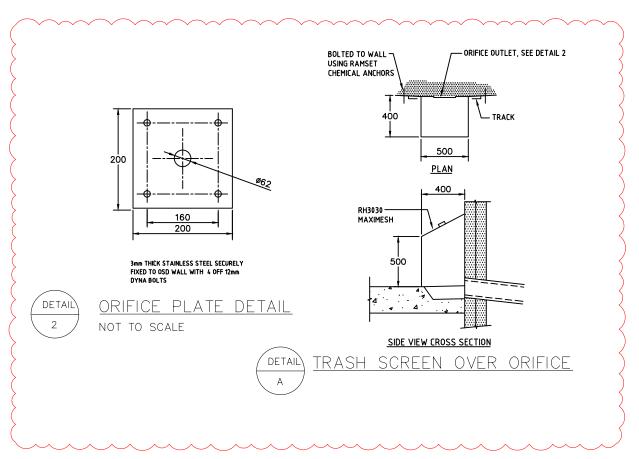


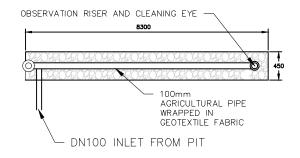
TYPICAL LEVEL SPREADER DETAIL ELEVATION

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NOTES:

- THE BASE OF THE BED MUST BE LEVEL TO ENSURE EVEN DISTRIBUTION OF STORMWATER. IT MUST ALSO BE SCARIFIED TO OVERCOME ANY SMEARING DURING EXCAVATION. BASE LEVELS SHOULD BE CHECKED WITH A DUMPY / LASER LEVEL.
- 2. ABSORPTION/DISPERSION TRENCH TO BE CONSTRUCTED PARALLEL TO THE NATURAL CONTOURS.





TYPICAL LEVEL SPREADER DETAIL PLAN VIEW

NOT TO SCALE

NOT FOR CONSTRUCTION

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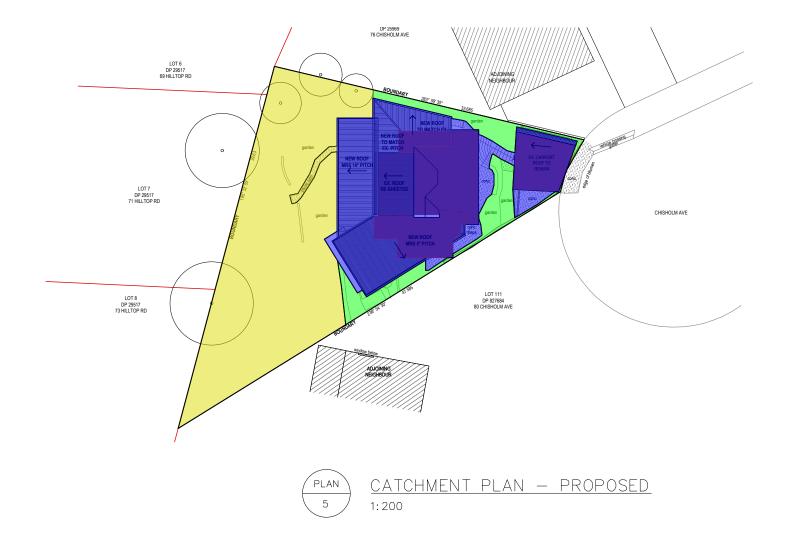
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AS3500.3:2021					
			DETAILS		
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EXISTING
SITE AREA: 745.64 m²

LEGEND

PERVIOUS - TO OSD 68.5m²

IMPERVIOUS TO OSD 311.5 m²

UNDEVELOPED AREA (OUTSIDE OF CALCULATIONS)

		TABLE 1		
	PRE AND PO	ST DEVELOPM	MENT FLOWS	
<u>AEP</u>	STATE OF NATURE, PSD	POST	DEVELOPED F (I/s)	FLOWS
	(<u>l/s)</u>	OSD	BYPASS	TOTAL
0.2 EY	10	7	O(NOTE 4)	7
5%	17	8	O ^(NOTE 4)	8
1%	24	10	O ^(NOTE 4)	10

NOTES:

- 1. PSD CALCULATED USING 0.2 EY EVENT STATE OF THE NATURE CASE
- 2. REFER TO DR-006 FOR DRAINAGE CALCULATIONS SUMMARY.
- 3. OSD DESIGNED USING HYDRAULIC MODELING SOFTWARE "DRAINS" BY WATERCOM
- 4. EXISTING UNDEVELOPED AREAS NOT INCLUDED IN THE CALCULATIONS AS PER COUNCIL RECOMMENDATION.

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78 CHISHOLM AVE, AVALON BEACH							
SITE AREAS							
Size A3	Status	DA SUBMISSION	DR-005	Rev.			

