

189 RIVERVIEW ROAD

AVALON BEACH NSW 2107

HYDRAULIC SERVICES

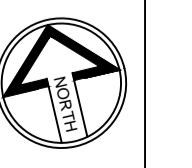
DRAWING LIST

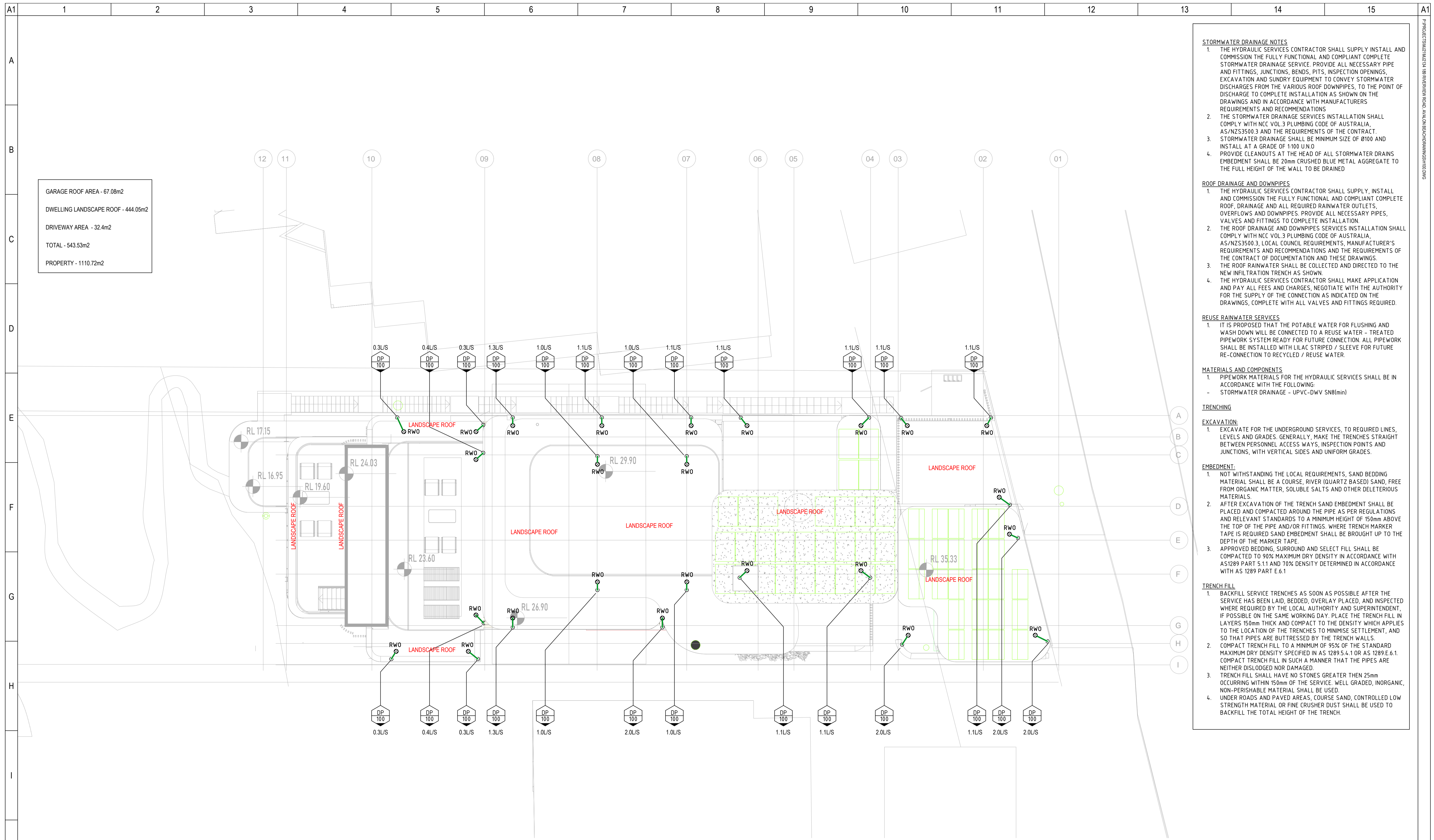
No.	DRAWING TITLE
HY-000	COVER SHEET AND DRAWING SCHEDULE
HY-001	LEGENDS, SYMBOLS & NOTES
HY-100	STORMWATER ROOF DRAINAGE PLAN
HY-101	STORMWATER INGROUND DRAINAGE
HY-201	SEDIMENT CONTROL PLANS



Status
FOR DA

COORDINATED REFERENCE DRAWINGS				CONSULTANT		Architect	Client	Project	Drawing	Project No.	Drawing No. (Revision)
Service	Drawing Number	Issue	Date	HYDROTEC CONSULTANTS PTY LTD		ALCHEMY ARCHITECTS	JAMIE DURIE	189 RIVERVIEW ROAD AVALON BEACH NSW 2107	HYDRAULIC SERVICES COVER SHEET & DRAWING SCHEDULE	MJ2134	HY-000 REV: A
ARCH	-	-	-	PO BOX 8826 CROFT NSW 2119 M: 0480 323 870 E: info@hydrotecgroup.com ACN: 161 525 381 091						Drawn: JBH	Date: -
MECH	-	-	-							Design: MH	Scale: NTS @ A1
STRUCT	-	-	-							Verified: MH	Size: A1
ELEC	-	-	-								
CIVIL	-	-	-								
Amendments											





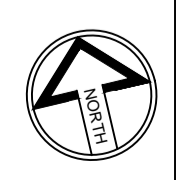
GARAGE ROOF AREA - 67.08m²
 DWELLING LANDSCAPE ROOF - 444.05m²
 DRIVEWAY AREA - 32.4m²
 TOTAL - 543.53m²
 PROPERTY - 1110.72m²

WARNING LOCATION AND DEPTH OF ALL SERVICES TO BE INVESTIGATED WITH THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK



- STORMWATER DRAINAGE NOTES**
- THE HYDRAULIC SERVICES CONTRACTOR SHALL SUPPLY INSTALL AND COMMISSION THE FULLY FUNCTIONAL AND COMPLIANT COMPLETE STORMWATER DRAINAGE SERVICE. PROVIDE ALL NECESSARY PIPE AND FITTINGS, JUNCTIONS, BENDS, PITS, INSPECTION OPENINGS, EXCAVATION AND SUNDRY EQUIPMENT TO CONVEY STORMWATER DISCHARGES FROM THE VARIOUS ROOF DOWNPIPES, TO THE POINT OF DISCHARGE TO COMPLETE INSTALLATION AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS
 - THE STORMWATER DRAINAGE SERVICES INSTALLATION SHALL COMPLY WITH NCC VOL.3 PLUMBING CODE OF AUSTRALIA, AS/NZS3500.3 AND THE REQUIREMENTS OF THE CONTRACT.
 - STORMWATER DRAINAGE SHALL BE MINIMUM SIZE OF Ø100 AND INST ALL AT A GRADE OF 1:100 U&V
 - PROVIDE CLEANOUTS AT THE HEAD OF ALL STORMWATER DRAINS EMBEDMENT SHALL BE 20mm CRUSHED BLUE METAL AGGREGATE TO THE FULL HEIGHT OF THE WALL TO BE DRAINED
- ROOF DRAINAGE AND DOWNPIPES**
- THE HYDRAULIC SERVICES CONTRACTOR SHALL SUPPLY, INSTALL AND COMMISSION THE FULLY FUNCTIONAL AND COMPLIANT COMPLETE ROOF, DRAINAGE AND ALL REQUIRED RAINWATER OUTLETS, OVERFLOWS AND DOWNPIPES. PROVIDE ALL NECESSARY PIPES, VALVES AND FITTINGS TO COMPLETE INSTALLATION.
 - THE ROOF DRAINAGE AND DOWNPIPES SERVICES INSTALLATION SHALL COMPLY WITH NCC VOL.3 PLUMBING CODE OF AUSTRALIA, AS/NZS3500.3, LOCAL COUNCIL REQUIREMENTS, MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS AND THE REQUIREMENTS OF THE CONTRACT OF DOCUMENTATION AND THESE DRAWINGS.
 - THE ROOF RAINWATER SHALL BE COLLECTED AND DIRECTED TO THE NEW INFILTRATION TRENCH AS SHOWN.
 - THE HYDRAULIC SERVICES CONTRACTOR SHALL MAKE APPLICATION AND PAY ALL FEES AND CHARGES, NEGOTIATE WITH THE AUTHORITY FOR THE SUPPLY OF THE CONNECTION AS INDICATED ON THE DRAWINGS, COMPLETE WITH ALL VALVES AND FITTINGS REQUIRED.
- REUSE RAINWATER SERVICES**
- IT IS PROPOSED THAT THE POTABLE WATER FOR FLUSHING AND WASH DOWN WILL BE CONNECTED TO A REUSE WATER - TREATED PIPEWORK SYSTEM READY FOR FUTURE CONNECTION. ALL PIPEWORK SHALL BE INSTALLED WITH LILAC STRIPED / SLEEVE FOR FUTURE RE-CONNECTION TO RECYCLED / REUSE WATER.
- MATERIALS AND COMPONENTS**
- PIPEWORK MATERIALS FOR THE HYDRAULIC SERVICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - STORMWATER DRAINAGE - UPVC-DWV S80(min)
- TRENCHING**
- EXCAVATION:**
- EXCAVATE FOR THE UNDERGROUND SERVICES, TO REQUIRED LINES, LEVELS AND GRADES. GENERALLY, MAKE THE TRENCHES STRAIGHT BETWEEN PERSONNEL ACCESS WAYS, INSPECTION POINTS AND JUNCTIONS, WITH VERTICAL SIDES AND UNIFORM GRADES.
- EMBEDMENT:**
- NOT WITHSTANDING THE LOCAL REQUIREMENTS, SAND BEDDING MATERIAL SHALL BE A COURSE, RIVER (QUARTZ BASED) SAND, FREE FROM ORGANIC MATTER, SOLUBLE SALTS AND OTHER DELETERIOUS MATERIALS.
 - AFTER EXCAVATION OF THE TRENCH SAND EMBEDMENT SHALL BE PLACED AND COMPACTED AROUND THE PIPE AS PER REGULATIONS AND RELEVANT STANDARDS TO A MINIMUM HEIGHT OF 150mm ABOVE THE TOP OF THE PIPE AND/OR FITTINGS. WHERE TRENCH MARKER TAPE IS REQUIRED SAND EMBEDMENT SHALL BE BROUGHT UP TO THE DEPTH OF THE MARKER TAPE.
 - APPROVED BEDDING, SURROUND AND SELECT FILL SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 PART 5.1.1 AND 70% DENSITY DETERMINED IN ACCORDANCE WITH AS 1289 PART E.6.1
- TRENCH FILL**
- BACKFILL SERVICE TRENCHES AS SOON AS POSSIBLE AFTER THE SERVICE HAS BEEN LAID, BEDDED, OVERLAY PLACED, AND INSPECTED WHERE REQUIRED BY THE LOCAL AUTHORITY AND SUPERINTENDENT, IF POSSIBLE ON THE SAME WORKING DAY. PLACE THE TRENCH FILL IN LAYERS 150mm THICK AND COMPACT TO THE DENSITY WHICH APPLIES TO THE LOCATION OF THE TRENCHES TO MINIMISE SETTLEMENT, AND SO THAT PIPES ARE BUTTRESSED BY THE TRENCH WALLS.
 - COMPACT TRENCH FILL TO A MINIMUM OF 95% OF THE STANDARD MAXIMUM DRY DENSITY SPECIFIED IN AS 1289.5.4.1 OR AS 1289 E.6.1. COMPACT TRENCH FILL IN SUCH A MANNER THAT THE PIPES ARE NEITHER DISLODGED NOR DAMAGED.
 - TRENCH FILL SHALL HAVE NO STONES GREATER THEN 25mm OCCURRING WITHIN 150mm OF THE SERVICE. WELL GRADED, INORGANIC, NON-PERISHABLE MATERIAL SHALL BE USED.
 - UNDER ROADS AND PAVED AREAS, COURSE SAND, CONTROLLED LOW STRENGTH MATERIAL OR FINE CRUSHER DUST SHALL BE USED TO BACKFILL THE TOTAL HEIGHT OF THE TRENCH.

COORDINATED REFERENCE DRAWINGS		CONSULTANT		Architect		Client		Project		Drawing		Project No.		Drawing No. (Revision)	
SERVICE	DRAWING NUMBER	ISSUE	DATE	HYDROTEC CONSULTANTS PTY LTD		ALCHEMY ARCHITECTS		JAMIE DURIE		189 RIVERVIEW ROAD AVALON BEACH NSW 2107		HYDRAULIC SERVICES STORMWATER DRAINAGE ROOF LAYOUT		MJ2134	
ARCH				PO BOX 8856 CROFT NSW 2119		ALCHEMY ARCHITECTS PTY LTD						Drawn: JBH		Date:	
MECH				Tel: 0480 321 076								Design: MH		Scale:	
STRUCT				E: info@hydrotec.com.au								Verified: MH		1:100 @ A1	
ELEC				ACN: 651 351 091										Size: A1	
CIVIL				ABN: 36 628 381 091											
Amendments															
No.	Date	Details													
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Status: **FOR DA**

