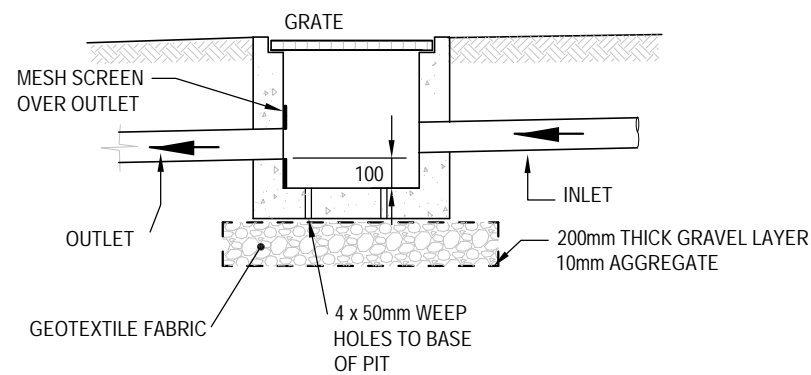
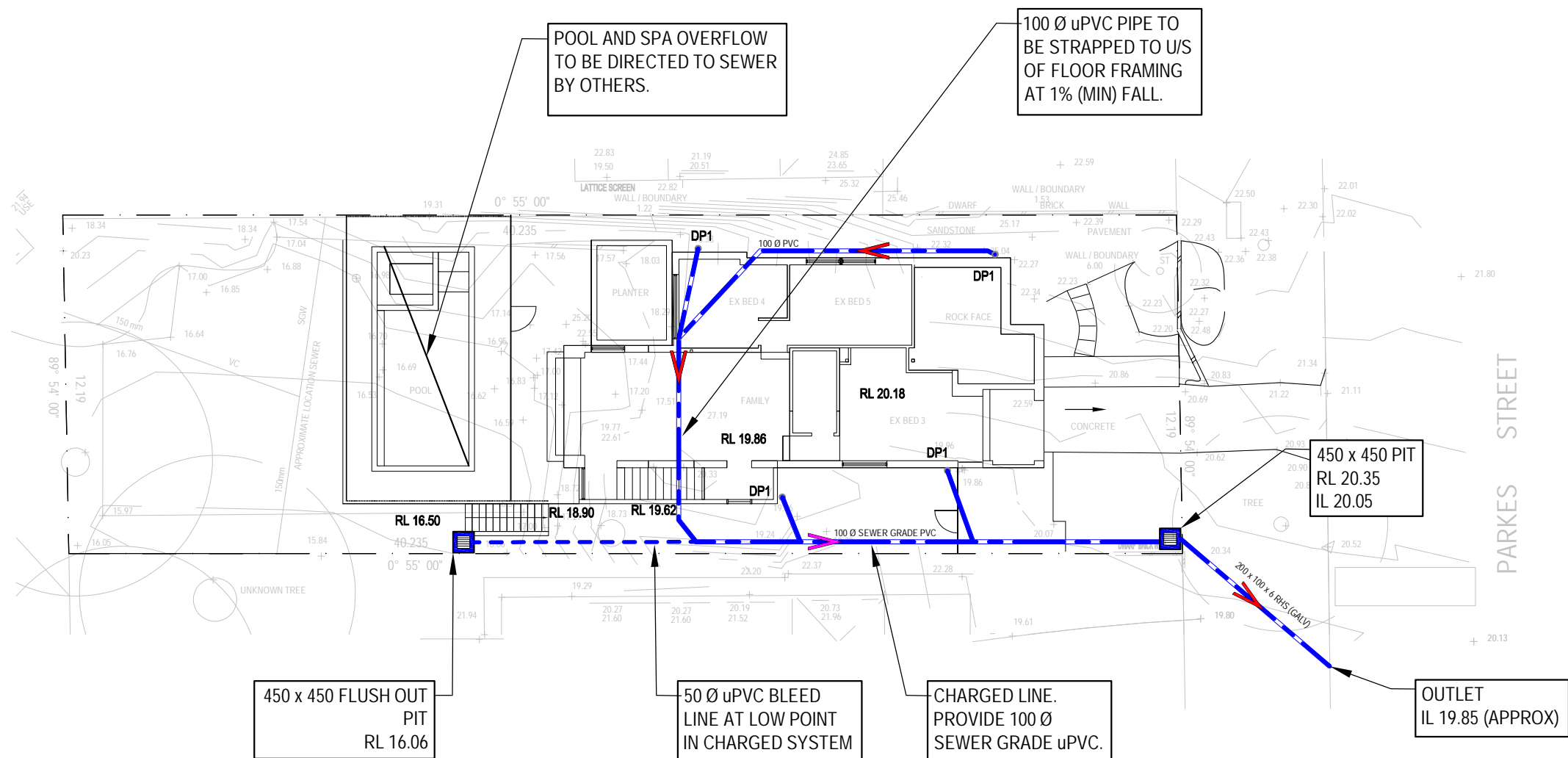


<div>STORMWATER DRAINAGE NOTES:</div> <div><div>- ALL PIPES TO BE 100mm Ø uPVC, LAID AT 1% MINIMUM GRADE TO AS1254.2002 U.N.O.</div><div>- ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D BELOW PAVEMENTS. (NO COMPACTION IS REQUIRED BELOW LANDSCAPING).</div><div>- COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.</div><div>- DOWNPIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.</div><div>- PROVIDE CLEANING EYES AND LEAF CATCHERS TO ALL DOWNPIPES.</div><div>- ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.</div><div>- ALL LEVELS SHOWN ARE TO AHD.</div><div>- ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.</div><div>- ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.</div><div>- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3-2003 NATIONAL PLUMBING AND DRAINAGE CODE PART 3 - STORMWATER DRAINAGE.</div><div>- SUBSOIL DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AS3500.3 ALONGSIDE WALLS THAT IMPEDE THE NATURAL FLOW OF GROUNDWATER. THIS MAY ALSO INVOLVE TRENCHING INTO THE CLAY OR ROCK SUBGRADE TO DIRECT GROUNDWATER AWAY FROM STRUCTURES.</div><div>- EXISTING ROOF DRAINAGE AND SITE DRAINAGE SYSTEM TO BE CHECKED AND UPGRADED AS REQUIRED. BUILDER TO INSPECT AND UPGRADE DRAINAGE IN ACCORDANCE WITH AS3500.3 IF REQUIRED.</div></div>			<div><div>- SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING.</div><div>- FIRST FLUSH DEVIDED, OR APPROVED ALTERNATIVE TO BE INSTALLED WITH AND AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES. REFER TYPICAL FLUSH OUT PIT FOR DETAILS.</div><div>- BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK SUITABILITY TO BE READ AND ADHERED TO.</div><div>- BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK - HB 230- 2008. IF IN DOUBT CONTACT ENGINEER.</div><div>- RAINWATER TANK TO BE WATERPROOFED IN ACCORDANCE WITH HB-230-2008.</div><div>- ORIFICE PLATE (IF APPLICABLE) TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE ROOF DRAINAGE SYSTEM AND CONNECTION OF THE STORMWATER SYSTEM TO THE OSD TANK.</div></div>			<div>SITE INFORMATION SUMMARY</div> <div><div>COUNCIL</div><div>NORTHERN BEACHES (WARRINGAI</div><div>SITE AREA</div><div>489.2 m²</div></div> <div>OSD CALCULATION SUMMARY</div> <div><div>EXISTING IMPERVIOUS AREA</div><div>232 m² (47 %)</div><div>PROPOSED IMPERVIOUS AREA</div><div>333 m² (68 %)</div><div>INCREASE</div><div>101 m²</div><div>AS THE PROPOSED DEVELOPMENT IS ALTERATIONS AND ADDITIONS OSD IS NOT REQUIRED. THIS DESIGN IS BASED ON EASEMENT REFUSAL WHICH IS TO BE SUPPLIED BY THE CLIENT AND SUBMITTED ALONG WITH THE STORMWATER PLANS. THE SITE IS CONSIDERED INADEQUATE FOR ABSORPTION.</div></div> <div>DIAL BEFORE YOU DIG NOTICE</div> <div><div>NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE</div><div>DEVELOPERS & EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.</div><div>CARELESS DIGGING CAN:<div><div>- CAUSE DEATH OR SERIOUS INJURY TO WORKERS AND THE GENERAL PUBLIC</div><div>- INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND COMMUNICATIONS</div><div>- LEAD TO CRIMINAL PROSECUTION AND DAMAGES CLAIMS</div><div>- CAUSE EXPENSIVE FINANCIAL LOSSES TO BUSINESS</div><div>- CUT OFF EMERGENCY SERVICES</div><div>- DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED</div></div></div><div>MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. – TEL. 1100</div><div><div>www.dialbeforeyoudig.com.au</div><div><div><div></div></div><div>1100 BEFORE YOU DIG</div></div></div></div>						
			INGRAM RESIDENCE		<div><div></div><div>GREENWOOD CONSULTING ENGINEERS</div><div>2/25 Seabeach Avenue, Mona Vale ABN - 90 625 916 341</div></div>	Project	37 PARKES STREET MANLY VALE		EG	Designed EG	17/01/2020	
			Architect			Checked EG	Approved EG	Scale 1 : 200				
A	ISSUED FOR S68 SUBMISSION ONLY.	12/03/21	COLLINS CADDAYE ARCHITECTS			Title		GENERAL NOTES		Drawing number SW01	Job number -	Revision A
-	ISSUED FOR DA SUBMISSION	17/01/20										
REVISION	AMENDMENT	DATE										



ISSUE FOR S68
SUBMISSION



ALTERNATIVE POLYPROPYLENE PIT BY MANUFACTURER

PIT DETAIL
SCALE = NTS

SITE DRAINAGE PLAN


SCALE 1:200

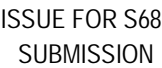
NOTE: DESIGN IS BASED ON EASEMENT
REFUSAL. SIGNED REFUSAL LETTERS FROM
DOWNSTREAM NEIGHBOURS ARE TO BE
SUBMITTED ALONG WITH THESE DRAWINGS

NOTE: PROVIDE SURFACE DRAINAGE IN
ACCORDANCE WITH AS3500.3

NOTE: ALL DRAINAGE LINES SHOWN ARE
INDICATIVE ONLY. LOCATION MAY VARY ON
SITE DUE TO CONSTRAINTS

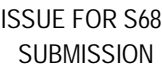
NOTE: ALL EXISTING SURFACE DRAINAGE TO
BE RETAINED IS TO BE UPGRADED BY THE
BUILDER IN ACCORDANCE WITH AS3500.3

			INGRAM RESIDENCE	 GREENWOOD CONSULTING ENGINEERS	Project 37 PARKES STREET MANLY VALE	EG	Designed EG	17/01/2020
						Architect	Checked EG	Approved EG
A	ISSUED FOR S68 SUBMISSION ONLY.	12/03/21	COLLINS CADDAYE ARCHITECTS	2/25 Seabeach Avenue, Mona Vale ABN - 90 625 916 341	Title SITE DRAINAGE PLAN	Drawing number SW02	Job number -	Revision A
-	ISSUED FOR DA SUBMISSION	17/01/20						
REVISION	AMENDMENT	DATE						



SCALE 1:200

			INGRAM RESIDENCE	 GREENWOOD CONSULTING ENGINEERS	2/25 Seabeach Avenue, Mona Vale ABN - 90 625 916 341	Project	37 PARKES STREET MANLY VALE		EG	Designed EG	17/01/2020	
						Architect	Checked EG	Approved EG	Scale 1 : 200			
A	ISSUED FOR S68 SUBMISSION ONLY.	12/03/21				COLLINS CADDAYE ARCHITECTS	Title	FIRST FLOOR DRAINAGE PLAN	Drawing number	Job number	Revision	
-	ISSUED FOR DA SUBMISSION	17/01/20							SW03	-	A	
REVISION	AMENDMENT	DATE										



SCALE 1:200

			INGRAM RESIDENCE	 <div>GREENWOOD CONSULTING ENGINEERS</div> <div>2/25 Seabeach Avenue, Mona Vale ABN - 90 625 916 341</div>	Project	37 PARKES STREET MANLY VALE		EG	Designed EG	17/01/2020	
					Architect	Checked EG	Approved EG	Scale 1 : 200			
A	ISSUED FOR S68 SUBMISSION ONLY.	12/03/21			COLLINS CADDAYE ARCHITECTS	Title	ROOF DRAINAGE	Drawing number	Job number	Revision	
-	ISSUED FOR DA SUBMISSION	17/01/20						SW04	-	A	
REVISION	AMENDMENT	DATE									