STORMWATER MANAGEMENT PLAN PROPOSED GRANNY FLAT DEVELOPMENT 22 RATHOWEN PARADE, KILLARNEY HEIGHTS NSW

EROSION CONTROL

BEFORE EARTHWORKS CAN COMMENCE THE EROSION & SEDIMENT CONTROL MEASURES MUST BE IN PLACE.

DURING THE CONSTRUCTION PERIOD, THESE CONTROL MEASURES WILL NEED TO BE INSPECTED & MAINTAINED REGULARLY, ESPECIALLY AFTER STORM EVENTS, BY THE CONTRACTOR.

ALL WORK IS TO BE CARRIED OUT TO PREVENT EROSION, CONTAMINATION & SEDIMENTATION OF THE STORAGE SITE, SURROUNDING AREAS & DRAINAGE SYSTEMS.

MINIMIZE DISTURBED AREA COVERED WITH NATURAL VEGETATION. ONLY THOSE AREAS DIRECTLY REQUIRED FOR CONSTRUCTION ARE TO BE DISTURBED.

INSTALL EROSION/SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION OR EXCAVATION OPERATIONS.

PROVIDE SILT FENCE/STRAW BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.

ISOLATE EXISTING STORMWATER PITS WITH STRAW BALES OR SILT TRAPS TO FILTER ALL INCOMING FLOWS.

DO NOT STOCKPILE EXCAVATED MATERIAL ON THE ROAD WAY.

DIVERT CLEAN WATER FROM UNDISTURBED AREAS AROUND THE WORKING AREAS.

CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

TREAT THE STORMWATER RUNOFE WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER)RAINAGE SYSTEM HAS A MAXIMUM CONCEN SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL

ADOPT TEMPORARY MEASURES AS MAY BE NECESSARY FOR EROSION & SEDIMENT CONTROL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: -

- DRAINS: TEMPORARY DRAINS AND CATCH DRAINS. - SPREADER BANKS OR OTHER STRUCTURES: TO DISPERSE CONCENTRATED RUNOFF.

- SILT TRAPS: CONSTRUCTION AND MAINTENANCE OF SILT TRAPS TO PREVENT DISCHARGE OF SCOURED MATERIAL TO DOWNSTREAM AREAS.

AFTER RAIN, INSPECT, CLEAN, AND REPAIR IF REQUIRED. TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.

REMOVE TEMPORARY EROSION & SEDIMENT CONTROL MEASURES WHEN THEY ARE NO LONGER REQUIRED.

COMPLY WITH THE REQUIREMENTS OF LANDCOM'S MANAGING URBAN STORMWATER - SOIL AND CONSTRUCTION 'THE BLUE BOOK' LATEST EDITION

THE EROSION & SEDIMENT CONTROL PLAN PROVIDED IS ONLY INDICATIVE. THE CONTRACTOR SHOULD PREPARE A DETAILED ESCP SUITABLE FOR THE SPECIFIC SITE CONDITIONS



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE TM: TRADE MARK OF THE ASSOCIATION OF

DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

GENERAL NOTES

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS, BUILDING CODE OF AUSTRALIA, NSW CODE OF PRACTICE AND THE TO THE RELEVANT SERVICE CODES.

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN MILLIMETERS (U.N.O.). DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OF THESE DRAWINGS. USE FIGURED DIMENSIONS ONLY.

BENCHMARKS HAVE BEEN ESTABLISHED WHERE INDICATED ON THE DRAWINGS. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY SURVEY WORK TO ENSURE THAT THE WORKS ARE CONSTRUCTED TO DESIGN LINE AND LEVEL.

SETTING OUT DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.

ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT SAA CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH WORK HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.

NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.

WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.

ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THESE SPECIFICATIONS.

DESIGN LEVELS GIVEN ARE TO FINISHED SURFACE LEVEL AND INCLUSIVE OF TOPSOIL. (TOPSOIL DEPTH VARIES)

THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A N.A.T.A. REGISTERED SURVEYOR.

CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THE DRAWING HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.

THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.

MODULAR ENGINEERS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THE DRAWING SHOWS MORE THAN THE PRESENCE OR ABSENCE OF SERVICES. AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE UTILITY SERVICES AUTHORITIES A CURRENT COPY OF UNDERGROUND SERVICES SEARCH FOR THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY. CLEARANCE SHALL BE OBTAINED FROM THE RELEVANT REGULATORY AUTHORITY. CONTRACTOR TO KEEP COPY OF UNDERGROUND SERVICES SEARCH ON SITE AT ALL TIMES. ANY DAMAGES TO SERVICES OR SERVICES ADJUSTMENTS SHALL BE CARRIED OUT BY THE CONTRACTOR OR RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.

VISIT THE SITE BEFORE SUBMITTING THE FINAL TENDER PRICE TO ASSESS 'ON SITE' CONDITIONS. FAILURE TO DO SO WILL FORFEIT ANY CLAIM FOR NOT BEING AWARE OF CONDITIONS AFFECTING THE TENDER.

THE CONTRACTOR SHALL PREPARE ACCURATE WORK-AS-EXECUTED DRAWINGS FOLLOWING THE COMPLETION OF ALL WORKS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN PLACE & MAINTAIN TRAFFIC FACILITIES AT ALL TIMES DURING CONSTRUCTION.

		DEVUCIONC		
		REVISIONS		
REV.	DATE	DETAILS	ENG. DFT.	
Α	21/06/2021	ISSUED FOR CO-ORDINATION	MIM MIM	
В	29/06/2021	ISSUED FOR APPROVAL	MIM MIM	
C	22/07/2021	ISSUED FOR APPROVAL	MIM MIM	
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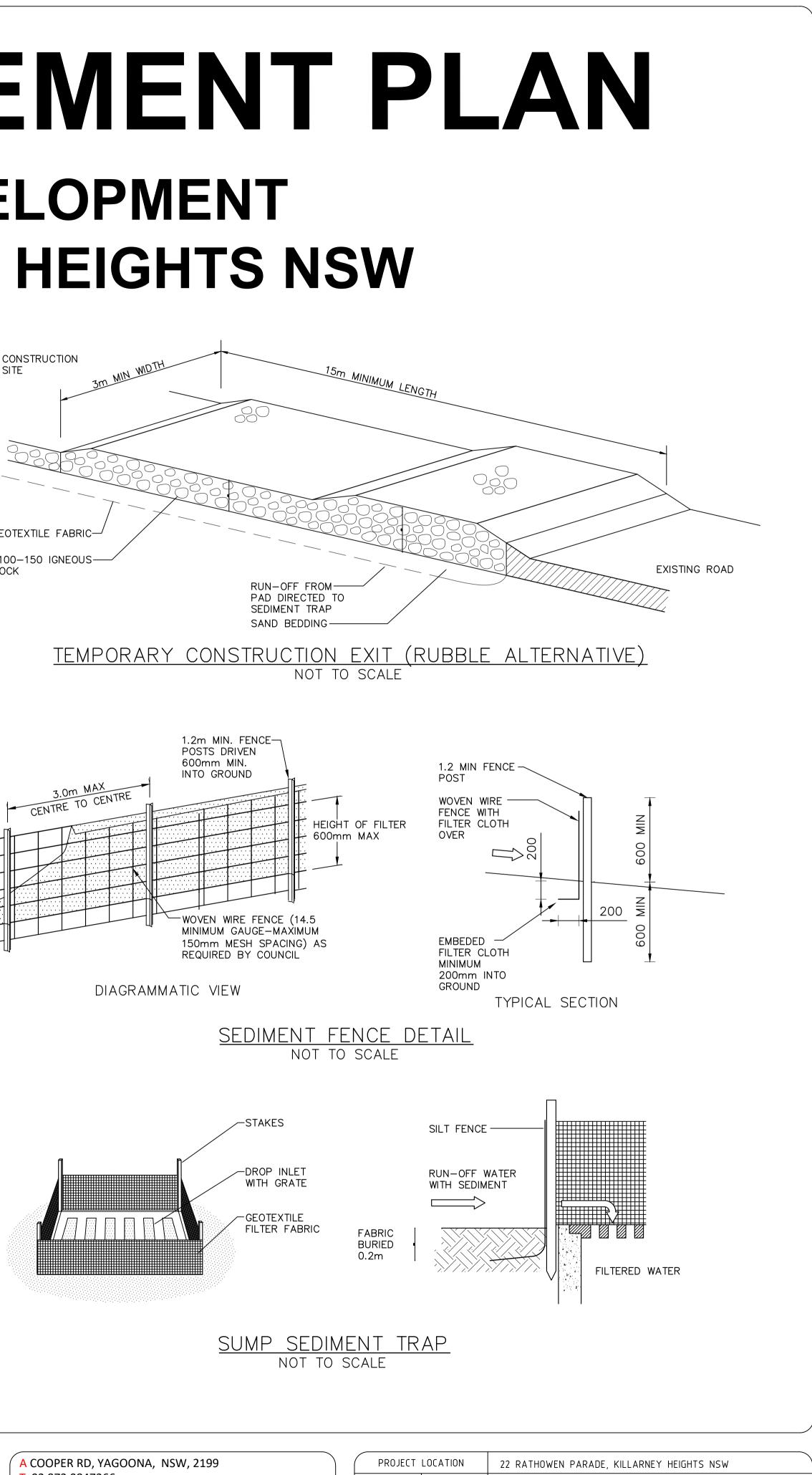
LEGEND

		CONSTRUCTION SITE WIDTH
DP •	DOWNPIPE	CONSTRUCTION SITE 3m MIN WIDTH
	STORMWATER LINE	80
SSD	SUBSOIL LINE	
e	EXISTING STORMWATER LINE	
s	AUTHORITY SEWER LINE	GEOTEXTILE FABRIC
//	SEDIMENT FENCE	Ø100-150 IGNEOUS
	GRATED SURFACE INLET PIT	RUN PAD SEDI
	GRATED TRENCH DRAIN	SAN
(1)	CLEANING EYE	<u>temporary</u> constru
x ^{R.L.} 51.83	PROPOSED SPOT LEVEL	
	EXISTING GRATED SURFACE INLET PIT	1.2m MIN. FENCE
	EXISTING JUNCTION PIT	3.0m MAX TO CENTRE
	EXISTING KERB INLET PIT	3.0m MAX CENTRE TO CENTRE
etel	EXISTING TELSTRA PIT	
🖽 eHYD	EXISTING HYDRANT	
► eSV	EXISTING STOP VALVE	WOVEN WIRE FEN
🖸 eGAS	EXISTING GAS VALVE	MINIMUM GAUGE- 150mm MESH SP
O ePP	EXISTING POWER POLE	REQUIRED BY CO
esmh	EXISTING SEWER MANHOLE	DIAGRAMMATIC VIEW
	OVERLAND FLOW PATH	SEDIN

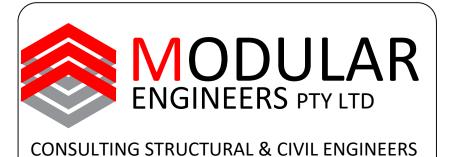
ABBREVIATIONS:

Ø or DIADIAMETEROFCBRCALIFORNIA BEARING RATIOOSCHCHAINAGERCLCENTER LINERCCOCLEAR OUTRLDDDISH DRAINRVDDODISH DRAIN OUTLETRVDPDOWNPIPESJeEXISTINGSNFFLFINISHED FLOOR LEVELSVGTDGRATED TRENCH DRAINSVGSIPGRATED SURFACE INLET PITSVHYDHYDRANTSVIJISOLATING JOINTTCILINVERT LEVELTCIPINTERSECTION POINTTWKIPKERB INLET PITTPK&GKERB & GUTTERCHKRKERB RETURNUNLSLONGITUDINAL SECTIONFFNGLNATURAL GROUND LEVELTY	CH CL DD DDO DP e FFL GSIP HYD IJ IL IP KO K&G KR LS
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OVERLAND FLOW PATH ON-SITE DETENTION RADIUS REINFORCED CONCRETE PIPE REDUCED LEVEL RETAINING WALL RAINWATER TANK SAWN CONTROL JOINT SEWER MAN HOLE STORMWATER STORMWATER PIT STORMWATER RISING MAIN STOP VALVE TOP OF KERB TOP OF WALL TOP WATER LEVEL TANGENT POINT UNPLASTICISED POLYVINYL LORIDE UNLESS NOTED OTHERWISE FIRST FLUSH DEVICE TYPICAL



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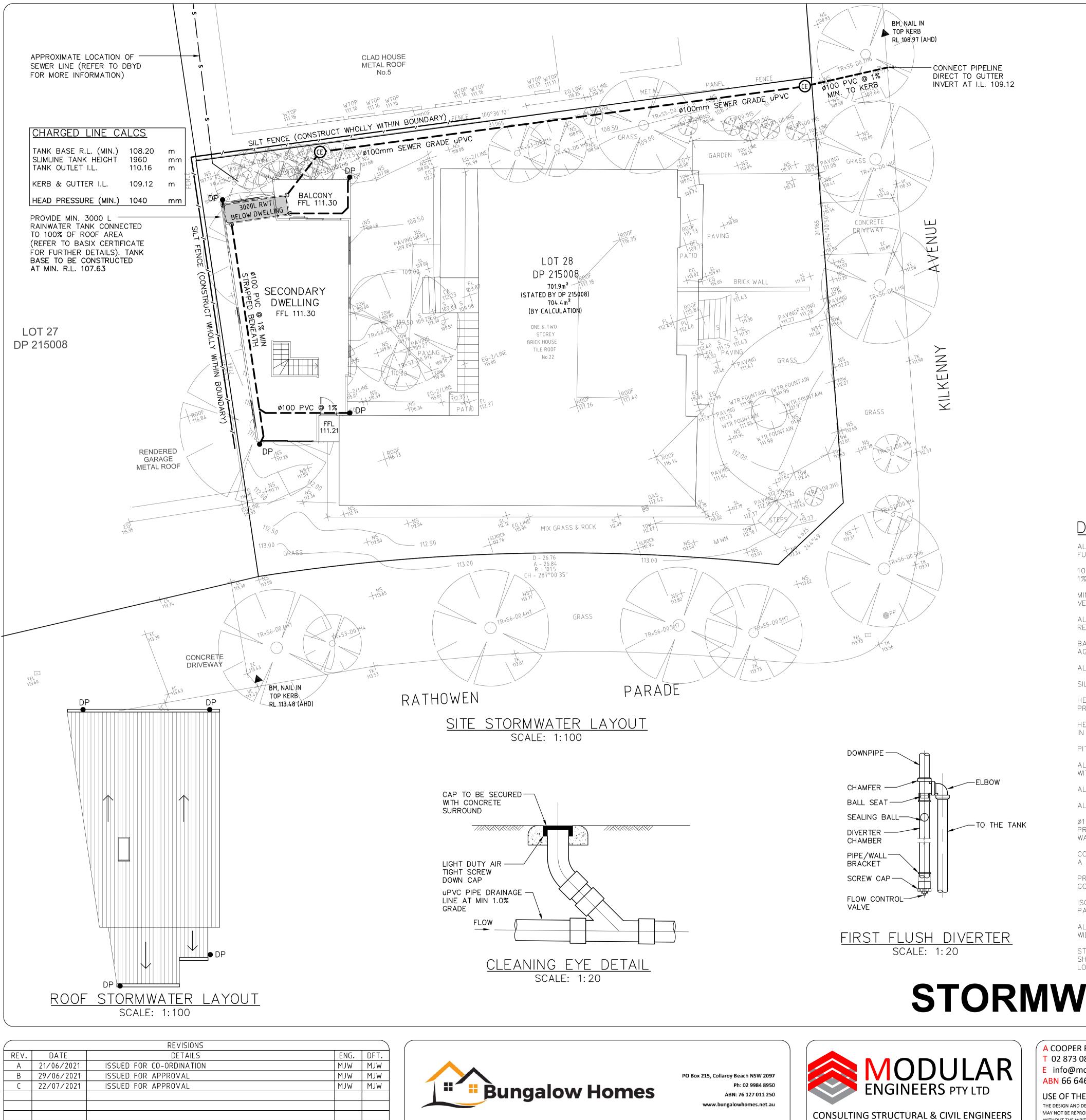


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USE OF THESE DRAWINGS

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	DESIGNED	MJW	TITLE PAGE, NOTES &	TITLE PAGE, NOTES & DETAILS	
	CHECKED	ALI	JOB NO.	DRAWN NO.	SIZE
CT OR PURPOSE	DATE	22/07/2021	ME-2021-SW028	DRAWN NO. SIZE	



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PROPRIETARY FIRST FLUSH -SYSTEM INSTALLED TO MANUFACTURER'S SPECIFICATIONS

FRAINWATER TANK SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE APPROVED BASIX REQUIREMENTS AND SYDNEY WATER'S REQUIREMENTS.

DRAINAGE NOTES:

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.) SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS HEAVY DUTY GALV. STEEL GRATES AND COVERS ARE TO BE

PROVIDED IN TRAFFICABLE AREAS HEEL & WHEELCHAIR SAFE GRATE COVERS ARE TO BE PROVIDED IN PEDESTRIAN AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT ALL PITS GREATER THAN 900mm DEEP SHALL BE PROVIDED

WITH A CHILD-PROOF LOCKING CLIP ALL PITS SHALL BE MAINTAINED REGULARLY

ALL PITS TO BE BENCHED MIN. 20mm TO INVERT OF OUTLET

Ø100 SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK TO BE PROVIDED IN ALL LANDSCAPED AREAS & BEHIND RETAINING WALLS AND CONNECTED TO THE NEAREST STORMWATER PIT.

COMPRESSIVE STRENGTH I'C FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

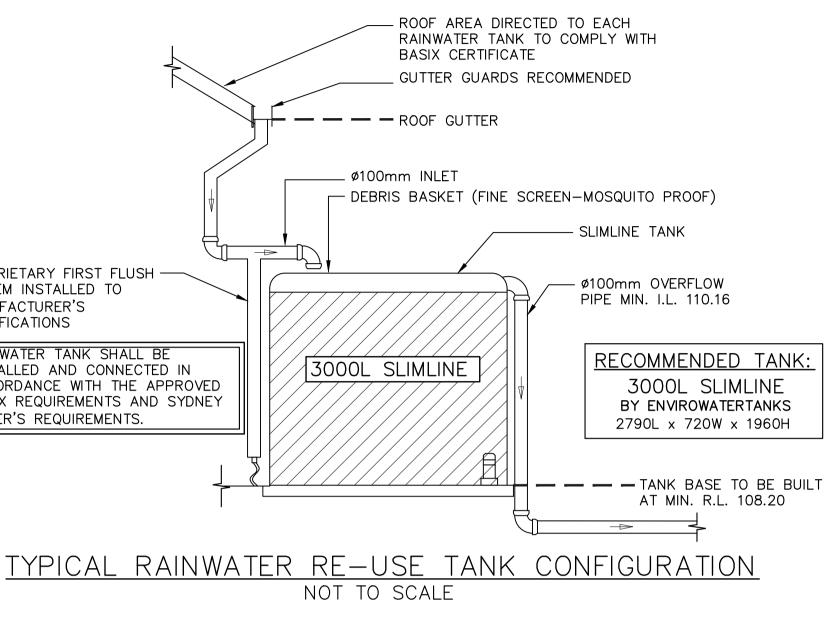
ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL



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UPPER LEVEL NOTES:

INSTALL Ø65mm uPVC SPITTER PIPES 20mm ABOVE SURFACE LEVEL FOR BALCONY AND CONCRETE ROOF AREAS TO ALLOW FOR EMERGENCY OVERFLOW INCASE OF BLOCKAGES DURING HEAVY STORMS. PLUMBER TO CONFIRM LOCATION DURING CONSTRUCTION

BALCONY, TERRACE & CONCRETE ROOF AREAS TO BE FITTED WITH RAINWATER OUTLETS AND CONNECTED TO NEAREST DOWNPIPE WHERE REQUIRED (TYP).

DOWNPIPES (DP) SHOWN ON PLAN ARE TO BE Ø100mm uPVC OR 100x75 U.N.O. (TYP).

CHARGED DOWNPIPES SHOWN ON PLAN MUST BE SEWER GRADE Ø100mm uPVC WITH ALL JOINTS SOLVENT WELDED TO A LEVEL 1200mm ABOVE THE RAINWATER TANK INLET R.L. (TYP).

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED DURING CONSTRUCTION (TYP).

INSTALL DOWNPIPE WITH SPREADER PIPE (SP) (IF REQUIRED) TO

DISPERSE STORMWATER ONTO LOWER ROOF AREAS EFFECTIVELY.

LEGEND DP 🜒 DOWNPIPE STORMWATER LINE SUBSOIL LINE _____ SSD _____ EXISTING STORMWATER LINE AUTHORITY SEWER LINE SEDIMENT FENCE GRATED SURFACE INLET PIT GRATED TRENCH DRAIN Œ CLEANING EYE

STORMWATER MANAGEMENT PLAN

	PROJECT LOCATION		22 RATHOWEN PARADE, KILLARNEY HEIGHTS NSW			
	DRAWN	MJW	DRAWING TITLE			
	DESIGNED	MJW	SITE STORMWATER PLAN			
OJECT ONLY AND	CHECKED	ALI	JOB NO.	DRAWN NO.	SIZE	
IGHT RESIDES	DATE	22/07/2021	ME-2021-SW028	SW010	A1	