PIPEWORK ----STW---- STORMWATER - → - ·SS - → - SUBSOIL

DOWNPIPE RD

ROOF DRAINAGE EXISTING SERVICE EXISTING SERVICE $\cdots \times \cdots \times \cdots \times \cdots \times \cdots \times \cdots \times \cdots$ TO BE DISCONNECTED

PIPEWORK SYMBOLS

----- R RISER ---- D DROPPER ----- COF CAPPED OFF HORIZONTAL PENETRATION DOF DIRECTION OF FLOW NC NEW CONNECTION ----- c CONTINUATION

MAN HOLE

STWKIP STORMWATER KERB INLET PIT

INSPECTION OPENING

SRWO SPOON DRAIN RAINWATER OUTLET

STWIP STORMWATER INLET PIT GRD GRATED DRAIN SO SAFETY OVERFLOW SPREADER RWO RAINWATER OUTLET BRWO BALCONY RAINWATER OUTLET PRWO PLANTER RAINWATER OUTLET

ABBREVIATIONS

FFL FINISH FLOOR LEVEL INVERT LEVEL

REDUCED LEVEL

UPVC UNPLASTICIZED POLYVINIL CHLORIDE

NTS NOT TO SCALE

UNLESS NOTED OTHERWISE UNO SQ SQUARE

MILLIMETRES METRES

SQUARE METRES CUBIC METRES /sec PER SECOND

MINIMUM

APPR APPROXIMATLY DIA DIAMETER EX EXISTING

AUSTRALIAN HEIGHT DATUM

STORMWATER GENERAL NOTES ALL IN ACCORDANCE WITH COUNCIL'S

STORMWATER REQUIREMENTS PIPEWORK DESIGN ALL PIPEWORK IS SIZED AND DESIGNED TO HANDLE

PIPEWORK

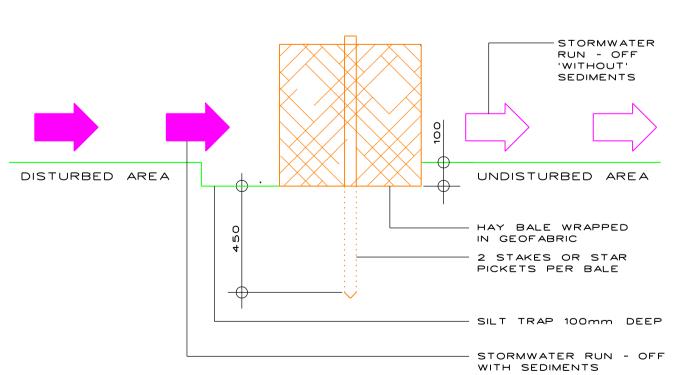
ISSUED FOR DA

REV DESCRIPTION

A 1:100 YEAR EVENT RAINFALL

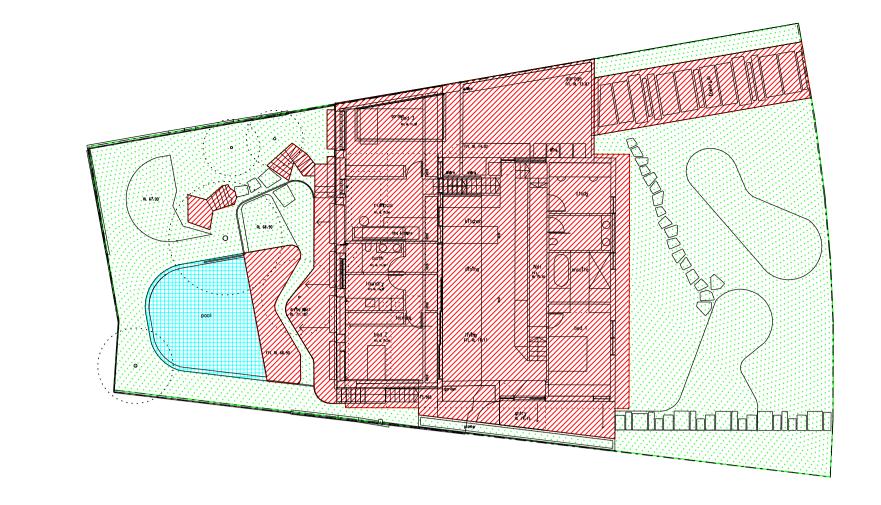
ALL PIPEWORK TO BE 100mm @ 1% FALL (UNO)

STORMWATER PIT SIZES					
MINIMUM INTERNAL MEASUREMENTS:					
DEPTH TO BASE OF CHAMBER	RECTANO	GULAR LENGTH	CIRCULAR	LADDER / STEP IRON	
SMALLER Than 600	450	450	600	0 0	
601 TO 900	600	600	900	NO	
901 TO 1200	600	900	1050	NO	
GREATER THAN 1200	900	900	1050	YES	



DETAIL 1: HAY BALE BARRIER NTS





SYMBOL	CATCHMENT	IMPERVIOUS AREA	PERVIOUS AREA	PERCENTAGE
	ROOF AND PAVED AREAS	372.1m2	-	52.7%
	DEEPSOIL LANDSCAPING	-	333.4m2	47.3%
TOTAL		705.5m2		100%

PRE DEVELOPED CATCHMENT AREAS

INTO GROUND

OF OVERLAP) GEOFABRIC

UNDISTURBED AREA

GEOFABRIC (DETAIL

STORMWATER

ALL IN ACCORDANCE WITH COUNCIL'S NORTHERN BEACHES STORMWATER REQUIREMENTS (OLD WARRINGAH COUNCIL AREA)

PROPOSED WORKS ALTERATIONS AND ADDITIONS (RESIDENTIAL SINGLE DWELLING)

SITE AREA TOTAL SITE AREA: 705.5m2

THE PROPERTY

GRAVITY DISCHARGE DISCHARGE TO COUNCIL'S DRAINAGE SYSTEM

DISCHARGE ACROSS NEIGHBOURING PROPERTIES IS REQUIRED IN ORDER TO ACHIEVE GRAVITY DISCHARGE TO COUNCIL'S DRAINAGE SYSTEM. THE PROPERTY OWNERS HAVE BEEN APPROACHED, BUT AN AGREEMENT COULDN'T BE REACHED.

ALTERNATIVE PROPOSAL (SUBJECT TO COUNCIL APPROVAL) DISPERSMENT SYSTEM (LEVEL SPREADER) AT THE BACK OF

RAINWATER COLLECTION A RAINWATER COLLECTION TANK IS PROPOSED IN LINE WITH THE BASIX REPORT, REFER TO DRAWING H - DA - 02 FOR FURTHER INFORMATION.

SYMBOL	CATCHMENT	IMPERVIOUS AREA	PERVIOUS AREA	PERCENTAGE
	ROOF & PAVED AREAS	344.2m2	-	48.8%
	DEEPSOIL LANDSCAPING	-	329.0m2	46.6%
	POOL	32.3m2		4.6%
TOTAL		705.5	5m2	100%

POST DEVELOPED CATCHMENT AREAS



SEDIMENTATION CONTROL DURING CONSTRUCTION

EMBEDDED 200mm INTO GROUND DETAIL 2: SILT FENCE NTS CLARE AND KIM MANNS

INSTALL AS REQUIRED AS REQUIRED TO SUIT CONSTRUCTION PROCESS

DISTURBED AREA

WIRE OR STEEL MESH-WHERE GEOFABRIC IS

EXCAVATION-FOR SILT RETENTION

GEOFABRIC -

17.11.21

DATE

NOT SELF SUPPORTING

ARCHITECT		
ATELIER	\bowtie	

email: markus@itmdesign.com.au

PROJECT AVENUE

consulting hydraulic engineers unit 6 / 3 apollo st, warriewood nsw 2102 po box 1438 mona vale nsw 1660 tel (02) 9997 1566 fax (02) 9997 3266

20 LEINSTER

KILLARNEY HEIGHTS

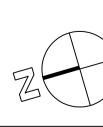
APPROVAL

DRAWING TITLE LEGEND, DETAILS, SED. CONTROL CATCHMENT CALCS.

1:200 @ A1 / 1:400 @ A3

20/126 DISCIPLINE DRAWING No HYD H-DA-00

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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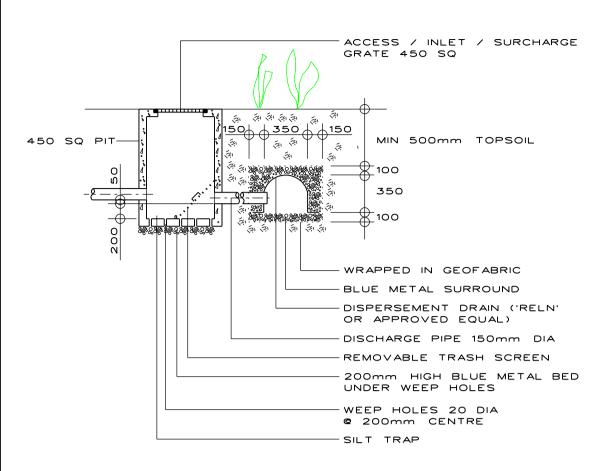
- NOT FOR CONSTRUCTION
- FINAL LOCATION OF ALL DOWNPIPES, PITS, RAINWATER OUTLETS
AND SUBSOIL PIPES TO BE CONFIRMED DURING CONSTRUCTION
CERTIFICATE STAGE OF THE PROPOSED DEVELOPMENT

LANDSCAPING DRAINAGE

STORMWATER DA

DRAWING ONLY

LANDSCAPING DRAINAGE
ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS
TO BE EQUIPPED WITH WATERPROOFING MEMBRANE,
DRAINAGE CELL AND GEOFABRIC



HANDLE

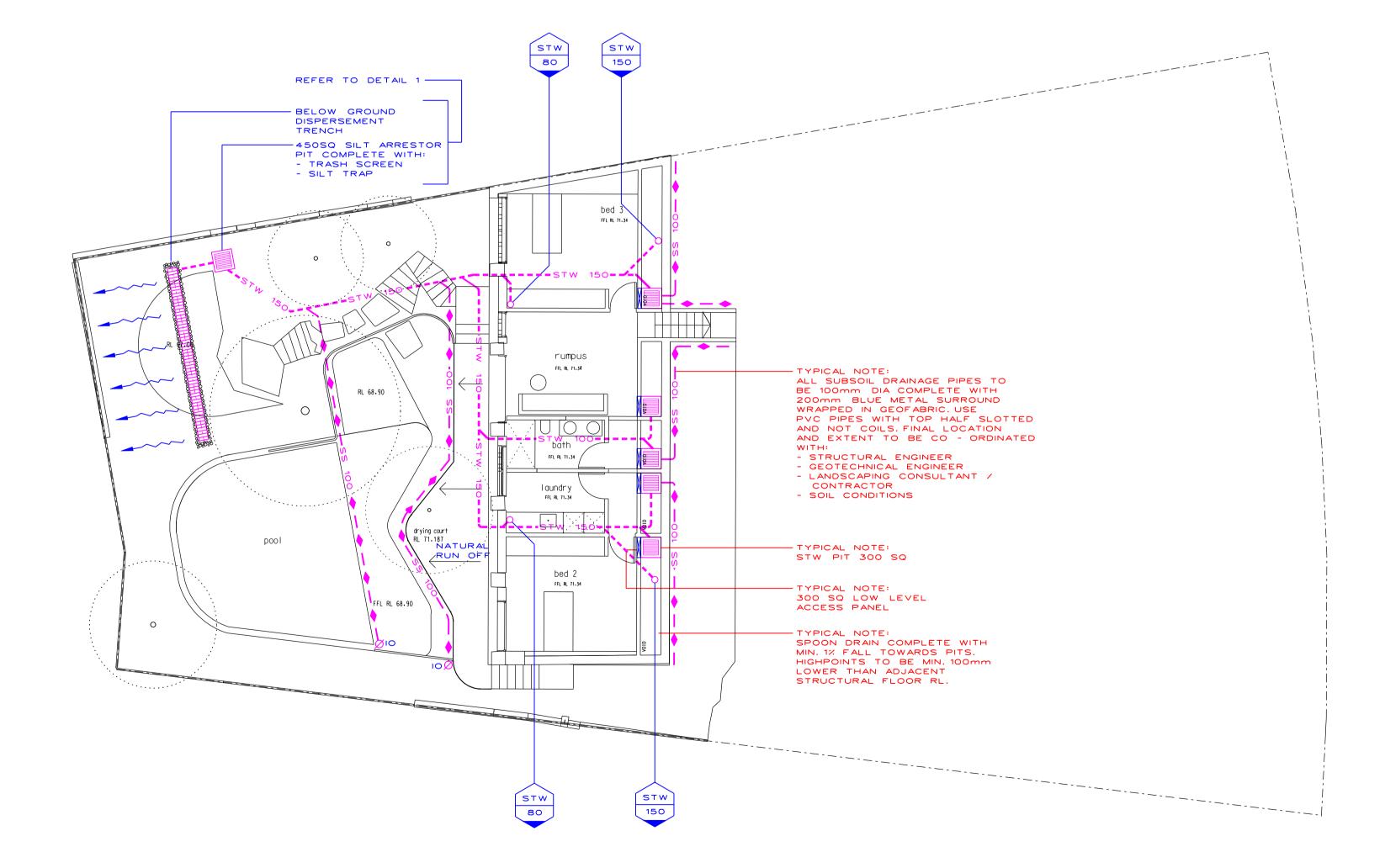
OUTLET BEHIND

TRASH SCREEN TO PROTECT THE OUTLET

MATERIAL:
STAINLESS STEEL OR GALVANISED

MESH SCREEN (MAXIMESH RH 3030 OR
EQUIVALENT)
PLACEMENT:
SCREEN MUST BE PLACED SO THAT THE
LONG AXIS OF THE OVAL SHAPED HOLES
ARE HORIZONTAL WITH THE PROTRUDING
LIP ANGLED UPWARDS AND
FACING DOWNSTREAM

DETAIL 1:
DIAGRAMMATIC SECTION
THROUGH SILT ARRESTOR
PIT AND DISPERSMENT TRENCH



APPROVAL



A ISSUED FOR DA 17.11.21

CLARE AND KIM MANNS

ARCHITECT ATELIER M

t md es i g

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20 LEINSTER AVENUE

KILLARNEY HEIGHTS LOWER GROUND FLOOR STORMWATER

DATE

REV DESCRIPTION

