PROPOSED ROOF TERRACE Lot 16, No.39 HEATHCLIFF CRESCENT, BALGOWLAH HEIGHTS

GENERAL NOTES:

- THESE PLANS REMAIN THE PROPERTY OF NY CIVIL ENGINEERING PTY LTD AND ARE SUBJECT TO COPYRIGHT
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED. ALL REDUCED LEVELS (SURFACE LEVELS, INVERT LEVELS) AND CHAINAGES ARE IN METERS UNLESS OTHERWISE STATED. DO NOT SCALE OFF THE DRAWINGS, SCALES ARE AS SHOWN, USE FIGURED DIMENSIONS
- THIS PLAN IS TO BE READ IN JUNCTION WITH LATEST ARCHITECTURAL STRUCTURAL LITHLITY AND LANDSCAPE PLANS IN ADDITION TO ANY
- ALL WORKS SHALL BE CARRIED OUT TO LOCAL COUNCIL'S DEVELOPMENT CONTROL PLAN AND SPECIFICATIONS, AS/NZS 3500.3 AND B.C.A.
- ALL LEVELS SHALL RELATE TO THE ESTABLISHED BM, PM AND/OR LM. ALL EXISTING SERVICES ARE TO BE VERIFIED FOR LOCATION AND DEPTH PRIOR TO COMMENCEMENT OF ANY WORK, CONTRACTOR TO NOIFY DESIGNER OF ANY DISCREPANCIES OF SERVICE LEVELS QUOTED ON THIS PLAN. ALL SURVEY INFORMATION, BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL MPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF WORKS. NO TREES SHALL BE REMOVED
- THE CONTRACTOR SHALL TAKE ALL DUE CARE TO USE THE ABSOLUTE MINIMUM AREA FOR CONSTRUCTION AND THAT NO UNDUE DAMAGE IS
- THE CONTRACTOR SHALL COMPLY WITH CONDITIONS, AND SPECIFICATION OF COUNCIL AND ALL ACTS OF THE NSW EPA.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE CARE TO PROTECT EXISTING SERVICES. DAMAGED SERVICES SHALL BE REPAIRED AT THE
- ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING WORK
- SUITABLE WARNING SIGNS AND BARRICADES ARE TO BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AND AS DIRECTED BY
- SERVICES SHOWN ARE INDICATIVE ONLY FROM AVAILABLE INFORMATION AND THE TIME OF SITE INVESTIGATION (IF ANY). THE BUILDER IS TO
- RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED
- RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL AND/OR AUTHORITY STANDARD AND SPECIFICATION
- THE WORK AS CONSTRUCTED WORKS SHALL BE INSPECTED BY THE ENGINEER, MINIMUM 48 HOURS NOTICE SHALL BE PROVIDED FOR ALL
- THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION
- WORK AS CONSTRUCTED DRAWINGS TO BE REQUESTED AND RECEIVED IN CAD/.DWG FILE TYPE AND HARD COPY 'RED LINE' MARKUP FROM

ROOF STORMWATER DRAINAGE NOTES:

- ALL DOWNPIPES TO BE FITTED VERTICALLY TO THE SOLE OF FAVES GUTTERS. RAINHEAD AND/OR SUMP.
- ALL DOWNPIPES TO DRAIN INTO RAINWATER TANK AND OR PIT PRIOR TO DISCHARGE OFFSITE UNLESS PRIOR APPROVAL IS OBTAINED FROM
- ALL EAVES GUTTERS TO BE SIZED FOR ARI 20 AS PER AS 3500.3 3.5 AND APPENDIX H.
- ROOF DRAINAGE INSTALLATION TO BE IN ACCORDANCE TO AS 3500.3 SECTION 4.

STORMWATER DRAINAGE NOTES:

PIPE SIZE:

- THE MINIMUM PIPE SIZE SHALL BE:
- DN90 FOR ALL DOWNPIPES:
- DN100 WHERE THE LINE ONLY RECEIVES ROOF STORMWATER RUNOFF, OR
- DN100 WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS.

PIPE GRADE:

- THE MINIMUM PIPE GRADE SHALL BE:
- FOR DN100 DN150 1.00% FOR DN225 - 0 50%
- FOR DN300 0.45%
- FOR DN375 0.35%

- MINIMUM PIPE COVER FOR PVC PIPES SHALL BE AS PER AS 3500.3 TABLE 6.2.5:
- NOT SUBJECT TO VEHICULAR LOADING:
- WITHOUT PAVEMENT SINGLE DWELLINGS 100mr
- 1.1.2. WITHOUT PAVEMENT OTHER THAN SINGLE DWELLINGS - 300mm
- WITH PAVEMENT (BRICK/PAVERS) AND/OR UNREINFORCED CONCRETE 100mm
- SUBJECT TO VEHICULAR LOADING:
- 122 ROADS (UNSEALED) - 750mm
- OTHER THAN ROADS (WITHOUT PAVEMENT) 450mm

PIPE INSTALLATION PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS:

- FOR PIPE SIZES GREATER THAN DN225 RCP WITH RUBBER RING JOINTS.
- FOR LARGER PIPE DEPTHS AS SPECIFIED IN AS 3500.3 RCP WITH RUBBER RING JOINTS.
- FOR PIPES AND FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED PVS WITH SOLVENT WELDED JOINTS MINIMUM DN150. FOR GRATED DRAINS SHALL BE MINIMUM DN150 IN NON-TRAFFICABLE ZONES AND DN225 IN TRAFFICABLE ZONES.
- LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURING RECOMMENDATIONS AND
- AS 3725-1989 LOADS ON BURIED CONCRETE PIPES
- AS 2566 1988 BURIED FLEXIBLE PIPELINES
- AS 1597.2 1996 PRECAST REINFORCED CONCRETE BOX CULVERTS
- AS 3500 1990 NATIONAL PLUMBING AND DRAINAGE CODE PART 2 SANITARY PLUMBING AND SANITARY DRAINAGE SYDNEY WATER
- ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS

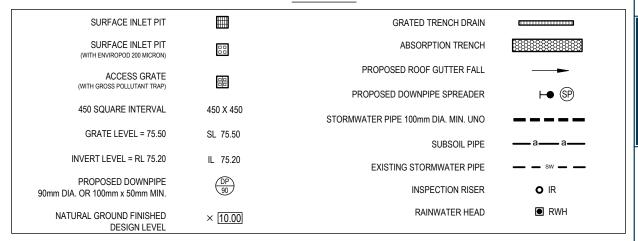
CONNECTIONS TO STORMWATER SYSTEMS UNDER BUILDINGS

CONNECTIONS TO COUNCIL STORMWATER SYSTEMS:

CONNECTION TO COUNCIL STORMWATER SYSTEM TO BE IN ACCORDANCE TO LOCAL COUNCIL DCP AND STANDARDS. NO CONNECTIONS TO BE MADE LINTII PROPER PERMIT/APPROVALS ARE OBTAINED FROM LOCAL COLINCII IN WRITING

EXISTING SERVICES SHOWN ON THESE PLANS ARE NOT GUARANTEED COMPLETE OR CORRECT AND FURTHER INFORMATION IS REQUIRED FROM THE

LEGEND



STORMWATER PIT/STRUCTURES NOTES:

1. PIT SIZES WILL BE AS FOLLOWS:

DEPTH (mm)	MIN. PIT SIZE (mm)
UP TO 450	350x350
450 - 600	450x450
600 - 900	600x600
900 - 1200	600x900
1200+	900x900 (WITH STEP IRONS)

- TRENCH DRAINS: CONTINUOUS TRENCH DRAINS ARE TO BE MIN. DN150 AND MIN. 100mm DEPTH. THE BARS OF THE GRATE ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW
- STEP IRONS: PITS RETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS 1657. FOR PITS GREATER THAN 6m OTHER MEANS
- PLASTIC/PVC PITS: PVC PITS WILL ONLY BE PERMITTED IF THEY ARE MAX. 450x450 AND MAX. 450mm DEPTH AS WELL AS BEING HEAVY DUTY.
- IN-SITU PITS: IN-SITU PITS ARE TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF CLAUSE 4.6.3 OF AS 3500.4. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED
- GRATES: GRATES ARE TO BE GALVANIZED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT

- ALL PIPES INTO PITS TO BE CUT FLUSH WITH PIT WALL
- ALL PITS THAT ARE INSTALLED AT GREATER THAN 600mm DEEP TO BE MIN. 600x600 PIT
- BASE OF PIT TO BE SAME LEVEL OF INVERT OF OUTLET
- OUTLET PIPE FROM ANY PIT TO BE 20mm LOWER THAN INLET PIPE/S



ISSUED FOR DA 11.11.2021 NADFR 7AKT MIEAust CPEng NER

DETAILS, NOTES & LEGEND

PROPOSED ROOF TERRACE No.39 HEATHCLIFF CRESCENT **BALGOWLAH HEIGHTS**

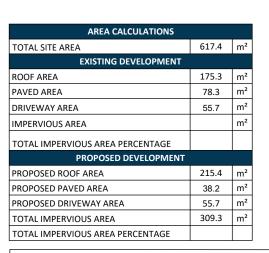
JOB REFERENCE SHEET SIZE A3 E210448 DESIGNED MH

CHECKED D1 **ISSUE**

SCALE

No. IN SET

DRAWING No



DRAINAGE PIPE LEGEND

- EXISTING STORMWATER PIPE
- DRAINAGE PIPES TO RAINWATER TANK
- DRAINAGE PIPES VIA GRAVITY
- CHARGED DRAINAGE PIPES



NOTE: ENSURE ANY PROPOSED PAVING IS GRADED SO THAT IT IS NOT IMPACTING ADJOINING PROPERTIES.

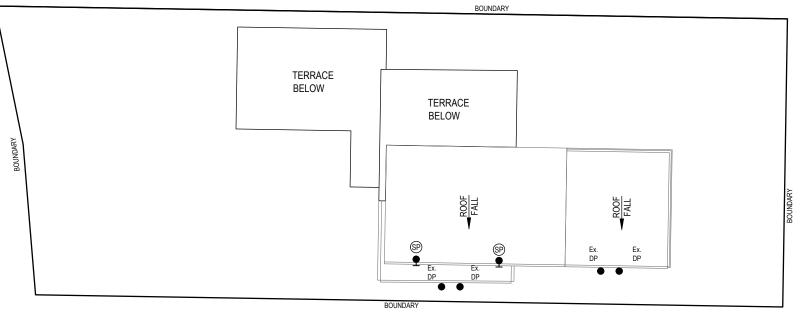
ROOF DRAINAGE

• GUTTERING - CROSS SECTIONAL AREA OF GUTTER TO BE

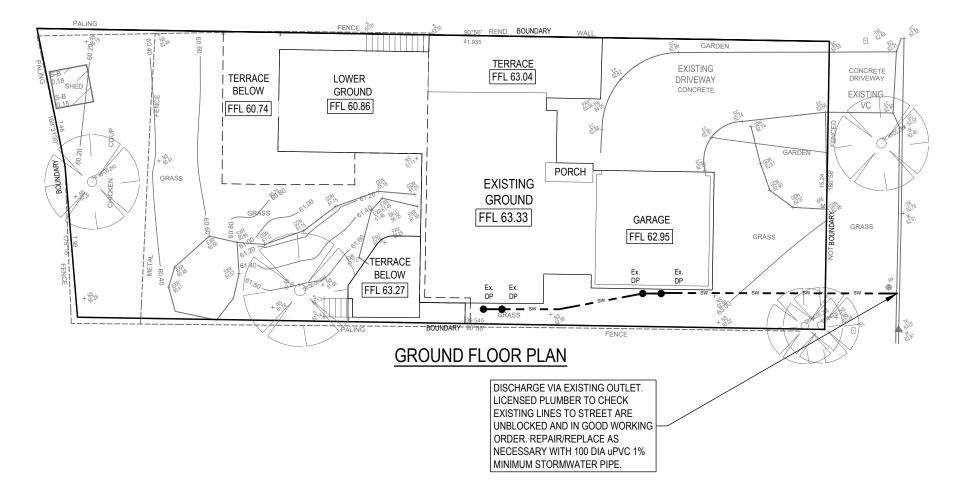
GREATER THAN 8000mm²

• SPREADER - 90mm DIA PVC OR COLORBOND

NOTE: ROOF DESIGNED TO 5% AEP INTENSITY 208 mm/hr



ROOF PLAN





PLANS ARE FOR CONCEPT ONLY AND NOT FOR CONSTRUCTION

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APPROVED BY	REVISION	DRAWN	DESCRIPTION	DATE	DRAWING TITLE	CHEET CIZE V3	JOB REFERENCE
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E admin@nycivilengineering.com.au W www.nycivilengineering.com.au					BALGOWLAH HEIGHTS	SCALE 1:200	4
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