STORMWATER MANAGEMENT PLAN PROPOSED DUAL OCCUPANCY **No.85 ELY STREET, REVESBY**

GENERAL NOTES:

- THESE PLANS REMAIN THE PROPERTY OF NY CIVIL ENGINEERING PTY LTD AND ARE SUBJECT TO COPYRIGH
- 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 DIMENSION
- THIS PLAN IS TO BE READ IN JUNCTION WITH LATEST ARCHITECTURAL STRUCTURAL LITHLITY AND LANDSCAPE PLANS IN ADDITION TO ANY 3 RELEVANT GEOTECHNICAL, SOIL CLASSIFICATION OR REF/ENVIRONMENTAL REPORTS. ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCIES QUOTED ON THIS PLAN
- 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 NOTIFY 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 FROM DRAWINGS BY OTHERS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL 6 IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF WORKS. NO TREES SHALL BE REMOVED WITHOUT THE WRITTEN PERMISSION OF COUNCIL
- THE CONTRACTOR SHALL TAKE ALL DUE CARE TO USE THE ABSOLUTE MINIMUM AREA FOR CONSTRUCTION AND THAT NO UNDUE DAMAGE IS DONE TO THE EXISTING VEGETATION
- 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 9 CONTRACTOR'S EXPENSE
- ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING WORK 10.
- SUITABLE WARNING SIGNS AND BARRICADES ARE TO BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AND AS DIRECTED BY THE RELEVANT AUTHORITY
- SERVICES SHOWN ARE INDICATIVE ONLY FROM AVAILABLE INFORMATION AND THE TIME OF SITE INVESTIGATION (IF ANY). THE BUILDER IS TO 12. NOTIFY ENGINEER OF ANY DISCREPANCIES QUOTED ON THIS PLAI
- RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED 13. SURFACES TO PRE-EXISTING CONDITION AND COMPACT AS SPECIFIED.
- 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 15. INSPECTION REQUESTS
- THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION. 16
- WORK AS CONSTRUCTED DRAWINGS TO BE REQUESTED AND RECEIVED IN CAD/ DWG FILE TYPE AND HARD COPY 'RED LINE' MARKUP FROM 17 CONSTRUCTOR FOR VERIFICATION AND CERTIFICATION

ROOF STORMWATER DRAINAGE NOTES:

- ALL DOWN PIPES TO BE MINIMUM DN90 OR 100x50mm FOR GUTTERS SLOPE 1:500 AND STEEPER AS PER AS 3500.3 3.7.8
- 2. ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3 AND SECTIONS 3.5.3, 3.7.5 AND APPENDIX G OF AS 3500.3.
- ALL DOWNPIPES TO BE FITTED VERTICALLY TO THE SOLE OF EAVES GUTTERS, RAINHEAD AND/OR SUMP. 3.
- ALL DOWNPIPES TO DRAIN INTO RAINWATER TANK AND OR PIT PRIOR TO DISCHARGE OFFSITE UNLESS PRIOR APPROVAL IS OBTAINED FROM COUNCIL IN WRITING OR NOTED OTHERWISE ON THIS PLAN
- 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. 6
- INTERNAL DOWNPIPES TO BE PROVIDED WITH ACOUSTIC LAGGING TO MANUFACTURERS SPECIFICATIONS

STORMWATER DRAINAGE NOTES:

PIPE SIZE:

- 1. THE MINIMUM PIPE SIZE SHALL BE:
- DN90 FOR ALL DOWNPIPES: 1.1. 1.2.
- DN100 WHERE THE LINE ONLY RECEIVES ROOF STORMWATER RUNOFF, OR; 1.3. DN100 WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR UNPAVED AREAS.

PIPE GRADE:

- 1. THE MINIMUM PIPE GRADE SHALL BE:
- FOR DN100 DN150 1.00% 1.1.
- 1.2. FOR DN225 - 0.50%
- 1.3 FOR DN300 - 0.45%
- 1.4. FOR DN375 - 0.35%

STANDARD COVER:

- MINIMUM PIPE COVER FOR PVC PIPES SHALL BE AS PER AS 3500.3 TABLE 6.2.5: 1.
- NOT SUBJECT TO VEHICULAR LOADING: 1.1.
- WITHOUT PAVEMENT SINGLE DWELLINGS 100mm 1.1.1
- 1.1.2 WITHOUT PAVEMENT OTHER THAN SINGLE DWELLINGS - 300mm
- 1.1.3 WITH PAVEMENT (BRICK/PAVERS) AND/OR UNREINFORCED CONCRETE - 100mm
- 1.2. 1.2.1 SUBJECT TO VEHICULAR LOADING: ROADS (SEALED) - 600mm
- 1.2.2 ROADS (UNSEALED) - 750mm
- 1.2.3. OTHER THAN ROADS (WITH PAVEMENT) - 100mm
- OTHER THAN ROADS (WITHOUT PAVEMENT) 450mm 1.2.4

PIPE INSTALLATION

1.2

- PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS: 1.
- FOR PIPE SIZES UP TO DN225 PVC WITH SOLVENT WELDED JOINTS (IN GROUND). 1.1.
- 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. 1.3.
- FOR PIPES AND FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED PVC WITH SOLVENT WELDED JOINTS MINIMUM DN150.
- 15 INSPECTION RISERS TO BE PROVIDED AT 30m (MAXIMUM) INTERVALS TO ALL LENGTHS OF PIPE GREATER THAN 30m.
- FOR GRATED DRAINS SHALL BE MINIMUM DN150 IN NON-TRAFFICABLE ZONES AND DN225 IN TRAFFICABLE ZONES. 2.
- 3 LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURING RECOMMENDATIONS AND
- AS 3725-1989 LOADS ON BURIED CONCRETE PIPES 3.1. 32 AS 2566 - 1988 - BURIED FLEXIBLE PIPELINES
- 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.

IN ACCORDANCE WITH AS 3500.3 SECTION 6. TESTING IN ACCORDANCE WITH AS 3500.3 SECTION 9.2

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

WARNING:

EXISTING SERVICES SHOWN ON THESE PLANS ARE NOT GUARANTEED COMPLETE OR CORRECT AND FURTHER INFORMATION IS REQUIRED FROM THE RELEVANT AUTHORITY AND FIELD INVESTIGATION AND ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

SURFACE INLET PIT	
SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)	
ACCESS GRATE (WITH GROSS POLLUTANT TRAP)	
450 SQUARE INTERNAL	450 X 450
GRATE LEVEL = RL 75.50	SL 75.50
INVERT LEVEL = RL 75.20	IL 75.20
NATURAL GROUND FINISHED DESIGN LEVEL	× 10.00

STORMWATER PIT/STRUCTURES NOTES:

PIT SIZES AND DEPTHS:

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)	

PIT DESIGNS:

- TO THE DIRECTION OF SURFACE FLOW 2.
- OF ACCESS MUST BE PROVIDED
- CONCRETE
- 5. TO VEHICLE LOADING

INSTALLATION NOTES

- ALL PIPES INTO PITS TO BE CUT FLUSH WITH PIT WAL 1.
- GRATED COVERS ON PITS GREATER THAN 600mm TO BE HINGED 2.
- 3. MINIMUM 20mm FALL TO BE PROVIDED ACROSS BASE OF PIT
- DRAWING TITLE VISION DRAWN DATE NADER ZAKI ISSUED FOR DA 04.02.2025 EΜ DETAILS, NOTES & LE MIEAust CPEng NER 3894863 PROJECT TITL PROPOSED DUAL OCCUP No.85 ELY STREET **(02)** 4610 5262 admin@nycivilengineering.com.au REVESBY www.nvcivilengineering.com.au NY CIVIL ENGINEERING

CONNECTIONS TO STORMWATER SYSTEMS UNDER BUILDINGS

CONNECTIONS TO COUNCIL STORMWATER SYSTEMS:

AS 1597.2 - 1996 - PRECAST REINFORCED CONCRETE BOX CULVERTS 3.3. 3.4. REQUIREMENTS.

LEGEND

GRATED TRENCH DRAIN ABSORPTION TRENCH PROPOSED ROOF GUTTER FALL PROPOSED DOWNPIPE SPREADER PROPOSED DOWNPIPE 90mm DIA. OR 100mm x 50mm MIN. INSPECTION RISEF

RAINWATER HEAD



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TRENCH DRAINS: CONTINUOUS TRENCH DRAINS ARE TO BE MIN. DN150 AND MIN. 100mm DEPTH. THE BARS OF THE GRATE ARE TO BE PARALLEL

STEP IRONS: PITS BETWEEN 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

	SHEET SIZE A3		JOB REFERENCE
GEND	DESIGNED EM		E250023
	CHECKED	N7	DRAWING No.
PANCY	CHECKED	INZ	D1
	ISSUE	А	No. IN SET
	SCALE	-	6



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FIRST FLOOR PLAN

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APPROVED BY NADER ZAKI MIEAust CPEng NER 3894863

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PLANS ARE FOR

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CONCEPT ONLY CONSTRUCTION		р Г
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PLAN	DESIGNED EM	L230023
	CHECKED NZ	DRAWING No. D3
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TYPICAL WARNING SIGN NTS EVERY EXTERNAL SUPPLY OUTLET FROM RAINWATER RE-USE TANK TO BE LABELED WITH METALLIC WARNING SIGN



FLO-WAY & RAINWATER PIT AND GRATES

Flo-way Pits suit 90mm or 100mm PVC Pipe





LANDSCAPE DRAIN - LD NTS



