Manhole schedule - Surface Water

MH REF	CL (mAOD)	IL (mAOD)	DEPTH TO SOFFIT (mAOD)	DS PIPE DIA (mm)	MH DIA (mm)	MH TYPE	CATCHPIT	CATCHPIT DEPTH (mm)	COVER SIZE (mm)	COVER CLASS	COVER TYPE	RECESSED	BACK DROP	Back drop IL (m)	RESTRICTED ACCESS	COMMENTS	EASTING	NORTHING
S1	73.899	72.549	1.20	150	1200	TYPE C	N	N/A	675X675	D400	SINGLE SEALED	N	N	N/A	N	UNRESTRICTED;	384984.554	402245.489
S2	73.800	72.325	1.32	150	1200	TYPE C	N	N/A	675X675	D400	SINGLE SEALED	N	N	N/A	N	UNRESTRICTED;	384992.214	402258.798

EX MH092
CL: 72.710 (APPROX)
IL: 71.340

S2 - OUTFALL 1200Ø
CL: 73.800
IL: 72.325
INVERT INTERPOLATED FROM GPR SURVEY,

EX MH090
CL: 74.020 (APPROX)
IL: 72.770

S1 1200Ø
CL: 73.899
IL: 72.549
HYDROBRAKE
HEAD: 1.4m
Q: 5.0 l/s
UNIT: SHE-0100-5000-1400-5000

EX 150mmØ 1:32

150mmØ 1:58

150mmØ 1:150

ALL EXISTING DRAINAGE ON SITE TO BE CONFIRMED PRIOR TO WORKS AND ALLOWANCE MADE TO REMOVE/CAP OFF IF REDUNDANT.

PERMEABLE GRAVEL SURFACE TO PROVIDE ATTENUATION WITHIN SUB-BASE FOR ADDITIONAL SURFACE WATER FLOWS

CENTRAL DRIVE

UNABLE TO ACCESS

UNABLE TO ACCESS

DESIGN PHILOSOPHY
SURFACE WATER DESIGN
THE DESIGN PROVIDES CAPACITY UP TO THE 100 YEAR 25% CLIMATE CHANGE EVENT BASED ON UP TO 10 YEAR DESIGN LIFE.
THE DESIGN ALSO CONSIDERS 100 YEAR 45% CC EVENT TO ENSURE EXISTING DEVELOPMENTS AREN'T EFFECTED
SW FLOW RATE: 5L/S WITH 100mm THROTTLE (BASED ON NMGH SITE WIDE MASTERPLAN DRAINAGE STRATEGY)
STORAGE REQUIREMENT: 88M³
OUTFALL: EXISTING PRIVATE SURFACE WATER SEWER WITHIN CENTRAL DRIVE. AGREED AS PART OF SITEWIDE DRAINAGE MASTERPLAN
LEVELS INDICATE THAT PUMPING WILL NOT BE REQUIRED.
POLLUTION TREATMENT: PERMEABLE GRAVEL SURFACING
INFILTRATION IS NOT CONSIDERED APPROPRIATE FOR THIS SCHEME.

KEY

- SITE BOUNDARY, TAKEN FROM: 23142-AFL-NM110-XX-DR-A-2051_P04
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED PERFORATED PIPE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED RODDING EYE
- EXISTING SURFACE WATER SEWER
- PERMEABLE GRAVEL SURFACE 800mm SUB-BASE (DEEPENED TO ALLOW FOR SURFACE WATER ATTENUATION)
- PERMEABLE GRAVEL SURFACE 300mm SUB-BASE

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. ALL ADOPTABLE DRAINAGE WORKS INCLUDING WORKS TO EXISTING PUBLIC SEWERS TO BE UNDERTAKEN IN ACCORDANCE WITH "DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION - LATEST EDITION" AND "CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 7th EDITION" AND CONSTRUCTED TO THE RELEVANT STATUTORY UNDERTAKERS DETAILS.
3. ALL PRIVATE DRAINAGE WORKS TO BE IN ACCORDANCE WITH CURTINS DRAINAGE SPECIFICATION, "CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 7th EDITION", BS EN 752 2017 'DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS' AND THE BUILDING REGULATIONS APPROVED 'DOCUMENT H'.
4. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
5. DESIGN BASED ON:
   - ARCHITECTS CARPARK LAYOUT: 23142-AFL-NM110-XX-DR-A-2051_P04.
   - TOPOGRAPHICAL SURVEY BY AXIS SURVEYS, DATED APRIL 2024.
   - GPR SURVEY BY SURVEY OPERATIONS: 20B201/008, DATED APRIL 2020.
   - CURTINS LEVELS DESIGN: NMGH-CUR-WP14-XX-D-C-95010_P01.
6. ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
7. COVER LEVELS, GULLY POSITIONS, AND BUILDINGS LOCATION ARE APPROXIMATE, BASED ON CURTINS LEVELS DESIGN. CONTRACTOR TO ALLOW FOR ADJUSTMENT TO SUIT AGREED POSITIONS AND FINISHED LEVELS, AND CONFIRM ALL COVER LEVELS ON SITE.
8. INVERT LEVELS AT MANHOLES/ INSPECTION CHAMBERS TO BE USED TO SET OUT PIPEWORK. PIPE GRADIENTS ARE SHOWN INDICATIVELY ONLY.
9. ALL PIPE DIAMETERS GIVEN ARE NOMINAL INTERNAL PIPE DIAMETERS.
10. ALL SEWERS, UNLESS AGREED OTHERWISE STATED, SHALL BE:
    - 100mm to 300mm DIA TO BE VITRIFIED CLAY.
    - 375mm DIA AND GREATER TO BE CLASS 120 CONCRETE PIPES.
11. AS AN ALTERNATIVE THE CONTRACTOR MAY USE AN APPROVED UNPLASTICISED POLYVINYL CHLORIDE (PVCU) WITH APPROVAL FROM THE ENGINEER.
12. SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS.
13. THE FIRST PIPE OUT OF MANHOLES TO BE AS SHORT AS PRACTICABLE SO AS TO PROVIDE A FLEXIBLE JOINT AS CLOSE AS POSSIBLE TO THE OUTSIDE FACE OF THE CONCRETE SURROUND AND CONNECTED TO A LENGTH OF ROCKER PIPE.
14. ALL NEW CONNECTIONS INTO EXISTING MANHOLES (OR INTO EXISTING SEWERS) TO BE 'SOFFITS LEVEL' UNLESS OTHERWISE NOTED.
15. UNLESS NOTED OTHERWISE IN THE MANHOLE SCHEDULE, ALL MANHOLE, GULLY AND CHANNEL COVERS (IRONWORK) SHOULD BE THE FOLLOWING SPECIFICATION:
    - B125 LOAD CLASS IN PEDESTRIAN AREAS
    - D400 LOAD CLASS IN VEHICULAR AREAS.
16. WHERE LAND DRAINAGE PERFORATED PIPES ARE SPECIFIED, THE PIPES SHOULD BE FULLY PERFORATED AND IN ACCORDANCE WITH BS EN 295.
17. PERFORATED PIPES SHOULD BE WRAPPED IN A GEOTEXTILE MEMBRANE UNLESS NOTED OTHERWISE.
18. ALL PROPRIETARY PRODUCTS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS, INSTRUCTIONS AND RECOMMENDATIONS.

Rev:	Description:	Date:	By:	Chkd:
P02	REFERENCE UPDATED	28/01/26	HS	HS
P01	FIRST ISSUE	27/01/26	JC	CG

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Status: SUITABLE FOR INFORMATION — S2

Project: NMGH - WP14 CARPARK

Drg Title: PROPOSED DRAINAGE LAYOUT

Drawn By	Designed By	Checked By
JC	JC	CG
	Date: 27/01/26	Scales @ A1: 1:250

Project No - Originator - Function - Spatial - Form - Discipline - Number: 075805 - CUR - WP14 - XX - D - C - 92500

Revision: P02

1:250 0 5m 10m 15m 20m 25m

1:1 0 10 20 30 40 50 60 70 80 90 100

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