

PROJECT

PROPOSED STRATEGIC HOUSING DEVELOPMENT AT CARMANHALL ROAD, SANDYFORD INDUSTRIAL ESTATE, DUBLIN 18

CLIENT

ATLAS GP LTD

CONSULTANT

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NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS, ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF THE DESIGNER.
- ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO COMMENCEMENT OF WORKS.
- AECOM LIMITED TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.
- DIMENSIONS OF ALL BOUNDARIES AND ADJOINING ROADS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
- DO NOT SCALE. ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
- THE LOCATION & DEPTH OF SERVICES TO BE CHECKED ON SITE PRIOR TO COMMENCING ANY WORKS.
- MANHOLE COVERS AND FRAMES IN PUBLICLY ACCESSIBLE AREAS SHALL BE HEAVY DUTY CAST IRON, CLASS D400, DOUBLE SEALED AND LOCKABLE TYPE COMPLYING WITH BS EN 124:2015.
- GULLY GRATINGS & FRAMES SHALL COMPLY WITH BS EN 124:2015.
- EXISTING INVERT LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING CONSTRUCTION.
- SURFACE WATER & FOUL SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE OR LESS THAN 0.9m IN NON-TRAFFICKED FOOTPATHS AND LANDSCAPE AREAS (WITH AN ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE Ø750mm) SHALL BE PROTECTED FROM DAMAGE BY PROVIDING MINIMUM 150mm THICK CONCRETE C16/20 HAUNCH IN ACCORDANCE WITH BS EN 12820.
- ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
- CCTV SURVEY TO BE CONDUCTED PRIOR TO COMMENCEMENT OF ANY WORKS TO DETERMINE THE CONDITION AND VERIFY LEVELS OF THE EXISTING FOUL AND SURFACE WATER PIPES/ MANHOLES. ANY SUB-STANDARD OR DEFECTIVE ELEMENTS OF THE EXISTING PIPES/MANHOLES TO BE REPORTED AND CORRECTED.
- ALL SURFACE WATER DRAINAGE DETAILS TO BE IN ACCORDANCE WITH THE GREATER DUBLIN STRATEGIC DRAINAGE STUDY AND THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

GREEN ROOF PROVISION				
ROOF	TOTAL ROOF AREA (m ²) *	GREEN ROOF AREA (m ²)	GREEN ROOF PROVISION (%)	TYPE
1. 10 th FLOOR	547.6	467.0	85%	SEDUM
2. 11 th FLOOR	387.2	350.0	90%	SEDUM
3. 17 th FLOOR	643.3	560.1	87%	SEDUM
4. 9 th FLOOR	304.5	140.5	46%	PLANTER
5. 9 th FLOOR	85.5	75.6	88%	SEDUM
6. 6 th FLOOR	533.2	294.0	55%	PLANTER
7. 8 th FLOOR	893.6	406.5	45%	PLANTER
8. 9 th FLOOR	165.6	98.6	60%	PLANTER
TOTAL	3560.4	2392.3	67%	n/a

* Excludes courtyard, balconies & private terraces.

ISO A1 594mm x 841mm
Approved: BM
Checked: CH
Drawn by: DM
Project Management Initials:
Last saved by: KAREL MULLIGAN(2021.03.15), Last Plotted: 2021.04.14
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STEPS - TREATMENT			
SUB-CATCHMENT AREA (m ²)	TREATMENT VOLUME REQUIRED (m ³)	BIORETENTION AREA (m ²)	TREATMENT PROVIDED (m ³)
310	3.7	74	3.7

ROAD - TREATMENT			
SUB-CATCHMENT AREA (m ²)	TREATMENT VOLUME REQUIRED (m ³)	PERMEABLE PAVING AREA (m ²)	TREATMENT PROVIDED (m ³)
475	5.7	306	42.8

ACCESSIBLE ROOFS - INTERCEPTION & TREATMENT						
SUB-CATCHMENT	WATER QUALITY PROCESS & SUDS MEASURE	SUB-CATCHMENT AREA (m ²)	INTERCEPTION REQUIRED (m ³)	INTERCEPTION PROVIDED (m ³)	TREATMENT REQUIRED (m ³)	TREATMENT PROVIDED (m ³)
5. 9 th FLOOR	INTERCEPTION - INTENSIVE	360.0	1.4	2.1	-	-
	TREATMENT - INTENSIVE			-	21.1	21.1
	TREATMENT - PAVING			-	-	-
TOTAL				2.1	4.3	23.2
6. 6 th FLOOR	INTERCEPTION - INTENSIVE	620.00	2.48	4.4	-	-
	TREATMENT - INTENSIVE			-	44.1	44.1
	TREATMENT - PAVING			-	4.5	4.5
TOTAL				4.4	7.44	48.6
7. 8 th FLOOR	INTERCEPTION - INTENSIVE	1100.00	1.39	5.16	-	-
	INTERCEPTION - EXTENSIVE			0.31	-	-
	TREATMENT - INTENSIVE			-	71.0	71.0
TOTAL				5.47	4.17	78.2
8. 9 th FLOOR	INTERCEPTION - INTENSIVE	230.00	0.92	1.5	-	-
	TREATMENT - INTENSIVE			-	14.9	14.9
	TREATMENT - PAVING			-	0.6	0.6
TOTAL				1.5	2.76	15.5
9. COURTYARD/PODIUM	INTERCEPTION - INTENSIVE	1050.00	4.20	8.0	-	-
	TREATMENT - INTENSIVE			-	80.4	80.4
	TREATMENT - PAVING			-	57.0	57.0
TOTAL				8.0	12.60	137.4
10. PRIVATE TERRACES	INTERCEPTION - INTENSIVE	720.00	2.88	7.2	-	-
	TREATMENT - INTENSIVE			-	72.5	72.5
	TREATMENT - PAVING			-	3.6	3.6
TOTAL				7.2	8.64	76.0

EXTENSIVE GREEN ROOFS - INTERCEPTION & TREATMENT						
SUB-CATCHMENT	SUB-CATCHMENT AREA (m ²)	INTERCEPTION REQUIRED (m ³)	TREATMENT REQUIRED (m ³)	EXTENSIVE GREEN ROOF AREA (m ²)	INTERCEPTION PROVIDED (m ³)	TREATMENT PROVIDED (m ³)
1. 10 th FLOOR	520.000	2.1	6.2	467	2.3	3.9
2. 11 th FLOOR	420.000	1.7	5.0	350	1.8	2.9
3. 17 th FLOOR	750.000	3.0	9.0	560	2.8	4.7
4. 9 th FLOOR	160.000	0.6	1.9	76	0.4	0.6

LEGEND:

- PROPOSED INTENSIVE GREEN ROOF 1897m² (INCLUDING COURTYARD, BALCONIES, TERRACES.....)
- PROPOSED EXTENSIVE GREEN ROOF 1515m² (INCLUDING COURTYARD, BALCONIES, TERRACES.....)
- PROPOSED POOL AREA: 30m².....
- PROPOSED SWALE 300mm WIDE TO BE LAID AT A GRADIENT OF 1:100.....
- PROPOSED ACCESSIBLE ROOF PAVING: 899m².....
- PROPOSED COURTYARD PAVING: 772m².....
- PROPOSED CARRIAGEWAY.....
- GROUND LEVEL LANDSCAPING.....
- GROUND LEVEL PAVING.....
- PROPOSED CYCLE LANE.....
- BIORETENTION AREA 74m².....
- TREATMENT SUB- CATCHMENT AREAS.....



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	18.03.2021	STAGE 3 PLANNING ISSUE
0	22.06.2020	STAGE 2 PRE - APP ISSUE

PROJECT NUMBER

60626107

SHEET TITLE

PROPOSED SUDS LAYOUT

SHEET NUMBER

PR461030-ACM-XX-00-DR-CE-10-0501