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ON ORIGINAL

NOTES:

- ALL DRAWINGS TO BE CHECKED BY CONTRACTOR ON SITE AND ENGINEER INFORMED OF DISCREPANCIES BEFORE WORK COMMENCES.
- THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF EXISTING DRAINAGE LEVELS AND LOCATION OF EXISTING SERVICES ON SITE PRIOR TO COMMENCEMENT OF WORKS ON SITE.
- ALL DIMENSIONS AND LEVELS ARE IN METERS AND ARE RELATED TO ORDNANCE DATUM. CO-ORDINATES RELATE TO ITM.
- ALL FOUL SEWERS, MANHOLES AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
- ALL FOUL SEWER HOUSE CONNECTIONS TO BE MIN 100mmØ UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS B90M IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
- ALL PUBLIC FOUL SEWERS TO BE MINIMUM 225mm DIAMETER CLASS H CONCRETE TO IS EN 1916 & IS 6 2004 OR UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS B90MZ, MIN. JETTING RESISTANCE OF 180 BAR IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
- ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 1916 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
- ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 150mmØ UPVC TO IS EN 1401 2009/2012 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
- LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
- ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETRACK LEVELS UNLESS OTHERWISE STATED.
- CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS UPON COMPLETION OF SAME.
- ALL FOUL SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
- WHERE COVERS ARE LOCATED IN GRASS AREAS THEY SHALL BE SURROUNDED BY A CONCRETE PLINTH, 200MM ALL ROUND AND 100MM DEEP FORMED WITH 20/25 CONCRETE, 20MM AGGREGATE SIZE, BEDDED IN CLAUSE 808 MATERIAL.
- CONTRACTOR TO ENSURE GULLIES ARE PROVIDED AT LOW POINTS.
- ALL SERVICES ARE CO-ORDINATED WITH THE LANDSCAPE PROPOSALS. VEGETATION ABOVE ATTENUATION STRUCTURE COMPRISES SHRUBS ONLY. TREE ROOT BARRIER TO BE USED AT CONSTRUCTION STAGE IF NECESSARY.

SERVICES LEGEND:

- S1: SURFACE WATER SEWER
- S2: PRIVATE WATER SEWER
- FD: PROPOSED FILTER DRAIN
- SD: SURFACE WATER DIFFUSER BOX ROAD GULLY AND 1500 COLLECTOR PIPE
- SDG: PROPOSED DRY SWALE WITH GRATED OUTLET
- SA: SURFACE ATTENUATION SYSTEM
- ACO: ACO MULTIDRAIN M1000.0 WITH 1100 OUTLET PIPE
- ACO: ACO MULTIDRAIN M1500.0 WITH 1600 OUTLET PIPE
- ACO: ACO MULTIDRAIN M2000.0 WITH 1600 OUTLET PIPE
- TP: PROPOSED TREE PIT
- PG: PROPOSED PODIUM GULLY
- KG: KERB GULLY
- F1: FOUL WATER SEWER
- FS: PRIVATE FOUL SEWER
- PC: PRIVATE CHAMBER WITH RECESSED COVER AS PER ARCHITECT DETAIL
- PM: PERMEABLE PAVING
- ES: EXISTING STREAM
- DB: PROPOSED DETENTION BASIN
- EX SW: EX SW SEWER
- EX FS: EX FOUL SEWER
- 99.99: PROPOSED LEVELS
- 99.99: EXISTING LEVELS
- ED: ENTRANCE DOOR
- FFL 99.99: FINISHED FLOOR LEVEL
- BO: PROPOSED BASEMENT OUTLINE
- GR: PROPOSED GREEN ROOF
- PV: PV PANELS TO BE SPECIFIED BY M&E ENGINEER

PHASE 2 DEVELOPMENT UNDER CONSTRUCTION UNDER SHD PLANNING REFERENCE: ABP-302398-18

UNATTENUATED SURFACE WATER FROM CATCHMENT A OF SUBJECT SITE TO CONNECT TO EXISTING SURFACE WATER ATTENUATION SYSTEM FOR PHASE 2 APPROVED AND CONSTRUCTED UNDER ABP-302398-18. THIS SYSTEM IS DESIGNED TO ACCOMMODATE UNATTENUATED RUNOFF FROM THE AREA OF THE SUBJECT SITE WHICH WAS INCLUDED UNDER ABP-302398-18.

EXISTING SURFACE WATER STORAGE SYSTEM 1, 821m³ (TO STORE RUNOFF FROM 1% AEP EVENT) FROM CATCHMENT (IMP AREA 0.88ha), APPROVED AND UNDER CONSTRUCTION UNDER ABP-302398-18. IMP AREA UTILISED BY PHASE 2 = 0.72 Ha (631m²). IMP AREA AVAILABLE FOR PHASE 3 = 0.16ha (189m²). TOTAL IMP AREA = 0.88ha (821m³). TWL: 112.25m. OBAR = 2L/s (UNCHANGED FROM APPROVED RATE).

DISCHARGE MANHOLE FOR BASEMENT FW SLUNG DRAINAGE

DISCHARGE MANHOLE FOR RISING MAIN FROM BASEMENT PUMP STATION

DISCHARGE MANHOLE FOR BLOCK D1 SIPHONIC DRAINAGE

DISCHARGE MANHOLE FOR BASEMENT FOUL SLUNG DRAINAGE

DISCHARGE MANHOLE FOR THE SIPHONIC DRAINAGE OF BLOCK D2

DISCHARGE MANHOLE FOR BLOCK D4 SIPHONIC DRAINAGE

DISCHARGE MANHOLE FOR THE SIPHONIC DRAINAGE OF BLOCK D3

PROPOSED CONNECTION 'C' TO EXISTING 225mm DIAMETER FOUL SEWER AT MANHOLE F104 CONSTRUCTED UNDER SHD PLANNING REFERENCE: ABP-302398-18. I.L. 112.007

PROPOSED FOUL CONNECTION 'A' TO EXISTING 225mm DIAMETER FOUL SEWER AT NEW FOUL MANHOLE F0 TO BE CONSTRUCTED ON EXISTING FOUL SEWER. I.L. 107.17, EL. 108.312, I.L. 108.312

PROPOSED FOUL CONNECTION 'B' TO EXISTING 225mm DIAMETER FOUL SEWER AT EXISTING MANHOLE F101(AB) CONSTRUCTED UNDER SHD PLANNING REFERENCE: ABP-302398-18. I.L. 109.872, EL. 110.882

PROPOSED ABOVE GROUND DETENTION BASIN

SURFACE WATER CATCHMENT B TOTAL STORAGE VOLUME PROVIDED = 1184m³ PROVIDED AS FOLLOWS:

- UNDERGROUND STORAGE: 112m³ STORMTECH SC740 WITH ROOT BARRIER (TO STORE RUNOFF FROM 1 IN 80yr RETURN PERIOD EVENT) 1.283m DEEP, I.L. 109.70m.
- OVERGROUND STORAGE - BASIN 72m³ (TO STORE RUNOFF BETWEEN 1 IN 80yr AND 1 IN 100yr RETURN PERIOD EVENT) BED LEVEL: 111.29m, TWL: 111.47m, MAX DEPTH: 190mm, 150mm DEPTH OF STONE BELOW STORMTECH PROVIDED AS A TREATMENT STORAGE.

ORDNANCE SURVEY IRELAND LICENCE No EN 0017920 © ORDNANCE SURVEY IRELAND GOVERNMENT OF IRELAND

PGC DMW / P01 15-12-20 / STAGE 3 SHD PLANNING / ICD DMW / rev date / description / by / chkd.

client approval: A - Approved, B - Approved with comments, C - Do not use.

submittal: S2 - INFORMATION, PLANNING.

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