

NOTES

- GENERAL
- 1) THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT HAYES HIGGINS ENGINEERING DRAWINGS AND SPECIFICATIONS.
 - 2) DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
 - 3) FOUl WATER/WASTE WATER TO CURRENT RISH WATER SPECIFICATION AND DETAILS (HW-005-5030-01)

NOTES

<p>DETAIL 01 – IRISH AND SERVICE CONNECTION PERFORMER</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. UNLESS NOTED OTHERWISE, LOCATED AT OR WITHIN 1m OF THE PROPERTY BOUNDARY AT THE UPSTREAM END OF THE CONNECTION. CONSULT WITH RISH WATER ON ALTERNATIVE LOCATIONS. 3. ANY PIPE AND ASSOCIATED CONNECTIONS SHALL BE INSTALLED WITHIN 1m OF A PRIVATE BOUNDARY IS A PRIVATE DRAIN AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS. 	<p>DETAIL 02 – TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. THE SEPARATION DISTANCES OUTLINED ARE MINIMUM REQUIREMENTS. 2. DISTANCES IN EXCESS OF THESE MINIMA SHALL BE PROVIDED FOR SERVICES SUCH AS GAS, ELECTRICITY, FIBRE-OPTIC OR ON PARTICULAR UTILITY PROVIDERS SHALL BE CONSULTED TO DETERMINE THESE MINIMUM SEPARATION DISTANCES AND POINTS OF SEPARATION DISTANCES SHALL BE PROVIDED TO RISH WATER AT DESIGN STAGE. 3. NOTIFICATION IN WRITING IS REQUIRED TO THE DEVELOPER AND RISH WATER OF ANY SEPARATION DISTANCES FROM AN EXISTING WATER MAIN OR WASTEWATER RISING MAIN. 	<p>DETAIL 03 – TYPICAL SERVICE/SERVICE PIPE CONNECTION</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. AS FAR AS PRACTICABLE, JUNCTIONS AND SERVICE CONNECTIONS SHALL BE BUILT IN RISE CONCRETE. WHERE IT IS NOT PRACTICABLE TO BUILT IN RISE CONCRETE, THE DEVELOPER SHALL BRING THE SERVICE TO THE INSPECTION CHAMBER AND SEAL IT OFF WITHIN 100mm OF THE CONNECTION POINT. 3. THE VERTICAL GABLE BETWEEN THE SERVICE CONNECTION AND THE INSPECTION CHAMBER SHALL BE GREATER THAN 0 AND NOT MORE THAN 60°. 4. WHERE THE CONNECTION IS BUILT MADE TO A SERVICE WITH A NOMINAL INTERNAL DIAMETER OF 300mm DIAMETER OR LESS, CONNECTIONS SHALL BE MADE USING 40 ANGLE JOINTINGS. 5. WHERE THE CONNECTION IS BUILT MADE TO A SERVICE WITH A NOMINAL INTERNAL DIAMETER IS GREATER THAN HALF THE DIAMETER OF THE SERVICE, AN ACCESS MANHOLE SHALL BE PROVIDED TO FORM THE CONNECTION POINT OF THE SERVICE. 6. IF THE DIAMETER OF THE CONNECTION PIPE IS LESS THAN OR EQUAL TO HALF THE DIAMETER OF THE SERVICE, THEN THE CONNECTION SHALL FITTING WITH A SLOW BEND BETWEEN THE SPANDE AND THE CONNECTION SERVICE/DRAIN. 	<p>DETAIL 04 – PRIVATE SITE INSPECTION CHAMBER</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. INSPECTION CHAMBERS SHOULD BE LOCATED AT THE UPSTREAM END OF EACH SERVICE CONNECTION ON THE PRIVATE SIDE OF THE WATER ON ALTERNATIVE LOCATIONS. 3. ANY PIPE AND ASSOCIATION TO A PUBLIC SERVICE OF VEHICULAR ACCESS – DEPTH NOT LESS THAN 0.5M (THIS WOULD NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY) SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS. 4. ACCESS POINTS SHOULD BE LOCATED SO THAT THE SERVICE CONNECTION CAN BE MAINTAINED AT ALL TIMES FOR USE. THEY SHOULD ALSO BEAR GARDENS OR ENCLOSED LAWNS AND SHOULD NOT BE LOCATED WITHIN 100mm OF THE PROPERTY BOUNDARY WITH RISH WATER. 5. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY RISH WATER. 6. 200mm ALL AROUND, 100mm DEEP CONCRETE FLOORS SHALL BE PROVIDED FOR INSPECTION CHAMBERS. 7. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL, 50mm DEEP TO 0.5m. 8. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL, 50mm DEEP TO 0.5m.
<p>DETAIL 04 – CONCRETE BED, MANHOLE AND SURROUND TO WASTEWATER PIPES</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. CONCRETE PIPE BEDS AND HANDHOLES MAY BE PROVIDED IN EXCESS OF THESE MINIMA AND SHALL BE SUBJECT TO SURVEYORS AND ASSESSMENT BY RISH WATER BEFORE ADVANCING WITH THE WORKS. 3. MANHOLE DEPTH OF BLOCK WORK MANHOLE SHALL BE 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 4. MANHOLE DEPTH OF BLOCK WORK MANHOLE SHALL BE 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 5. TRIMMED JOINTS FROM WORK TO PROVIDE A ROUGH CAST FINISH. 6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR THERMAL EXPANSION/CONTRACTION. JOINTS SHALL BE LOCATED AT 6m MAXIMUM SPACING. JOINTS IN EN 622-1 AND BS EN 622-4 AND TO BE 18mm THICK. 7. POLYETHYLENE PIPES SHALL BE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO RISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4, 2002. 8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES. 	<p>DETAIL 05 – BLOCKWORK MANHOLE (4.500mm Ø)</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. UNLESS NOTED OTHERWISE, SOLID BLOCKWORK TO BE OF HIGH STRENGTH 9.5 (20N/mm²) TO IS EN 771. 3. MAXIMUM DEPTH OF BLOCK WORK MANHOLE IS 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 4. MANHOLE DEPTH OF BLOCK WORK MANHOLE SHALL BE 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 5. TRIMMED JOINTS FROM WORK TO PROVIDE A ROUGH CAST FINISH. 6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR THERMAL EXPANSION/CONTRACTION. JOINTS SHALL BE LOCATED AT 6m MAXIMUM SPACING. JOINTS IN EN 622-1 AND BS EN 622-4 AND TO BE 18mm THICK. 7. POLYETHYLENE PIPES SHALL BE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO RISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4, 2002. 8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES. 	<p>DETAIL 06 – PRECAST CONCRETE MANHOLE</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. PRE-CAST MANHOLES MUST COMPLY WITH MANHOLE DEPTH OF 1.20m AND BS 5911-PART 3. 3. THICKER MANHOLE BEDS REQUIRED FOR DEEPER MANHOLES SHALL BE PROVIDED AT THE DEVELOPER'S RISK. 4. APPROVED PRE-CAST CONCRETE BASES MAY BE USED INSTEAD OF THE STANDARD CONCRETE BASES. 5. STRUCTURAL DESIGN AND REINFORCEMENT DETAILS SHALL BE SUBJECT TO RISH WATER REVIEW AND BE SUBJECT TO RISH WATER REVIEW. 6. MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO RISH WATER REVIEW. 7. MANHOLE ROOFS SHALL CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE (C30/37) WITH A MINIMUM CARRY THICKNESS OF 220mm DESIGNED TO CARRY THE WEIGHT OF THE ROOF AND APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO RISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4, 2002. 8. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY RISH WATER. 9. 200mm ALL AROUND, 100mm DEEP CONCRETE FINISH AROUND COVERS IN GREEN AREAS. 	<p>DETAIL 07 – TRENCH BACKFILL AND BONDING</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. 2. THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE CROWN OF GRANULAR PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS: 3. ANY PIPE AND ASSOCIATION TO A PUBLIC SERVICE OF VEHICULAR ACCESS – DEPTH NOT LESS THAN 0.5M (THIS WOULD NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY) SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS. 4. ACCESS POINTS SHOULD BE LOCATED SO THAT THE SERVICE CONNECTION CAN BE MAINTAINED AT ALL TIMES FOR USE. THEY SHOULD ALSO BEAR GARDENS OR ENCLOSED LAWNS AND SHOULD NOT BE LOCATED WITHIN 100mm OF THE PROPERTY BOUNDARY WITH RISH WATER. 5. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY RISH WATER. 6. 200mm ALL AROUND, 100mm DEEP CONCRETE FLOORS SHALL BE PROVIDED FOR INSPECTION CHAMBERS. 7. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL, 50mm DEEP TO 0.5m. 8. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL, 50mm DEEP TO 0.5m.
<p>DETAIL 08 – CONCRETE BED, MANHOLE AND SURROUND TO WASTEWATER PIPES</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. CONCRETE PIPE BEDS AND HANDHOLES MAY BE PROVIDED IN EXCESS OF THESE MINIMA AND SHALL BE SUBJECT TO SURVEYORS AND ASSESSMENT BY RISH WATER BEFORE ADVANCING WITH THE WORKS. 3. MANHOLE DEPTH OF BLOCK WORK MANHOLE SHALL BE 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 4. MANHOLE DEPTH OF BLOCK WORK MANHOLE SHALL BE 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 5. TRIMMED JOINTS FROM WORK TO PROVIDE A ROUGH CAST FINISH. 6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR THERMAL EXPANSION/CONTRACTION. JOINTS SHALL BE LOCATED AT 6m MAXIMUM SPACING. JOINTS IN EN 622-1 AND BS EN 622-4 AND TO BE 18mm THICK. 7. POLYETHYLENE PIPES SHALL BE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO RISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4, 2002. 8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES. 	<p>DETAIL 09 – IN-SITU CONCRETE MANHOLE</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. UNLESS NOTED OTHERWISE, SOLID BLOCKWORK TO BE OF HIGH STRENGTH 9.5 (20N/mm²) TO IS EN 771. 3. MAXIMUM DEPTH OF BLOCK WORK MANHOLE IS 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 4. MANHOLE DEPTH OF BLOCK WORK MANHOLE SHALL BE 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 5. TRIMMED JOINTS FROM WORK TO PROVIDE A ROUGH CAST FINISH. 6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR THERMAL EXPANSION/CONTRACTION. JOINTS SHALL BE LOCATED AT 6m MAXIMUM SPACING. JOINTS IN EN 622-1 AND BS EN 622-4 AND TO BE 18mm THICK. 7. POLYETHYLENE PIPES SHALL BE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO RISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4, 2002. 8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES. 	<p>DETAIL 10 – BLOCKWORK MANHOLES</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. UNLESS NOTED OTHERWISE, SOLID BLOCKWORK TO BE OF HIGH STRENGTH 9.5 (20N/mm²) TO IS EN 771. 3. MAXIMUM DEPTH OF BLOCK WORK MANHOLE IS 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 4. MANHOLE DEPTH OF BLOCK WORK MANHOLE SHALL BE 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED AT THE DEVELOPER'S RISK). 5. TRIMMED JOINTS FROM WORK TO PROVIDE A ROUGH CAST FINISH. 6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR THERMAL EXPANSION/CONTRACTION. JOINTS SHALL BE LOCATED AT 6m MAXIMUM SPACING. JOINTS IN EN 622-1 AND BS EN 622-4 AND TO BE 18mm THICK. 7. POLYETHYLENE PIPES SHALL BE WELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO RISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4, 2002. 8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES. 	<p>DETAIL 11 – PRIVATE SITE INSPECTION CHAMBER</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. INSPECTION CHAMBERS SHOULD BE LOCATED AT THE UPSTREAM END OF EACH SERVICE CONNECTION ON THE PRIVATE SIDE OF THE WATER ON ALTERNATIVE LOCATIONS. 3. ANY PIPE AND ASSOCIATION TO A PUBLIC SERVICE OF VEHICULAR ACCESS – DEPTH NOT LESS THAN 0.5M (THIS WOULD NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY) SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS. 4. ACCESS POINTS SHOULD BE LOCATED SO THAT THE SERVICE CONNECTION CAN BE MAINTAINED AT ALL TIMES FOR USE. THEY SHOULD ALSO BEAR GARDENS OR ENCLOSED LAWNS AND SHOULD NOT BE LOCATED WITHIN 100mm OF THE PROPERTY BOUNDARY WITH RISH WATER. 5. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY RISH WATER. 6. 200mm ALL AROUND, 100mm DEEP CONCRETE FLOORS SHALL BE PROVIDED FOR INSPECTION CHAMBERS. 7. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL, 50mm DEEP TO 0.5m. 8. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL, 50mm DEEP TO 0.5m.
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PROJECT NO. 17D102			
DRAWING NO. 03		REVISION P	
SCALE AS SHOWN		ISSUE DATE 01.05.2020	
ISSUED BY DW	CHECKED BY LM	APPROVED BY DH	
DATE 07.12.20	ISSUED FOR PLANNING	DATE 07.12.20	DATE 07.12.20
<p>PLANNING</p> <p>CLIENT DUN LAOGHAIRE - RATHDOWN COUNTY COUNCIL</p> <p>PROJECT NAME APARTMENTS AT ST LAURENCE'S PARK</p> <p>DRAWING NAME IRISH WATER FOUL & SURFACE DRAINAGE DETAILS SHEET 4 OF 4</p>			
<p>The Glass House, 11 Coke Lane Smeethfield, Dublin 7. Tel: 01 6612321 E-mail: admin@hayeshiggins.ie Co. House Lane, Kildenny, Tel: (056) 7764710 Email: info@higginsoe.com</p>			