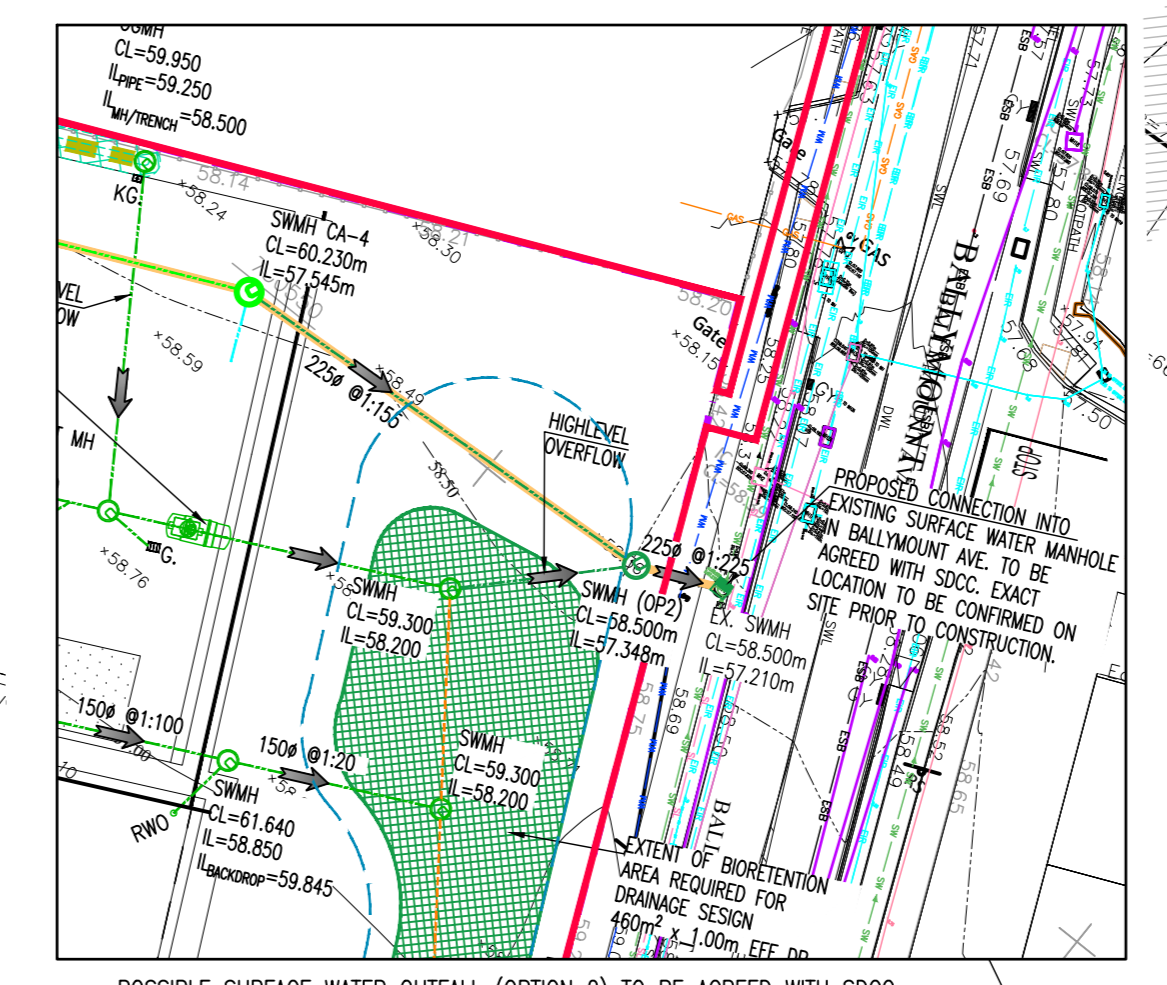


- NOTES:**
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. DIMENSIONS TO BE CHECKED ON SITE.
  2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL & ENGINEERING DRAWINGS & ALL OTHER RELEVANT DRAWINGS & SPECIFICATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS & CONDITIONS ISSUED BY LOCAL AUTHORITY.
  3. ALL LEVELS RELATE TO O.S. DATUM AT MAIN HEAD UNLESS NOTED OTHERWISE.
  4. ALL SURFACE WATER WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS. RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS & CONDITIONS ISSUED BY LOCAL AUTHORITY.
  5. ALL WATERMAIN AND WASTEWATER WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICES - IW-CDS-5000-03 FOR WATERMANS AND IW-CDS-5030-03 FOR WASTEWATER.
  6. ALL WORKS SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE RECOMMENDATIONS & CONDITIONS ISSUED BY LOCAL AUTHORITY AND IRISH WATER.
  7. WATERMAIN TO BE MPE-PE 80 IN ACCORDANCE WITH SECTION 3.3 OF WATER CODE OF PRACTICE. COVER TO WATERMAIN TO BE 900mm.
  8. ALL TRENCH SEWERS TO BE 150mm Ø WITH CONCRETE OR PVC-U IN ACCORDANCE WITH SECTION 3.13 OF WASTEWATER CODE OF PRACTICE.
  9. ALL SURFACE WATER SEWERS TO BE 225mm Ø WITH CONCRETE (CLASS H) OR PVC-U IN ACCORDANCE WITH SECTION 11.1 OF GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  10. ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL AUTHORITY AND IRISH WATER REQUIREMENTS.
  11. THE DEVELOPMENT SHALL BE CONNECTED TO THE PUBLIC SEWER TO THE SATISFACTION OF THE LOCAL AUTHORITY AND IRISH WATER. THE MINIMUM COVER TO ANY SEWER PIPE SHALL BE 1.2m IN ROADS AND 0.8m IN OPEN SPACES AND FOOTPATHS NOT ADJACENT TO CARRIAGEWAYS. WHERE IT IS NOT POSSIBLE TO ACHIEVE THESE MINIMUM COVERS, PIPES SHALL BE BEDDED AND SURROUNDED IN CONCRETE 150mm THICK.
  12. ALL MANHOLE COVERS AND FRAMES SHALL COMPLY WITH IS 194 AND BE TESTED. THEY SHOULD BE OF SUITABLE LOAD RATING FOR THE PROPOSED LOCATION AND COMPLY WITH LOCAL AUTHORITY'S AND IRISH WATER REQUIREMENTS.
  13. ALL MANHOLE COVERS LOCATED IN SOFT LANDSCAPED/GRASS AREAS ARE TO BE SURROUNDED BY A CONCRETE PLINTH, 200mm ALL ROUND AND 100mm DEEP FORMED WITH C20/24 CONCRETE, 20mm AGGREGATE SIZE, BEDDED IN CLAUSE 804 MATERIAL.
  14. THE SEWERS AND MANHOLES SHALL BE LAID AND TESTED IN ACCORDANCE WITH THE LOCAL AUTHORITY'S AND IRISH WATER SPECIFICATIONS. LAYING, BEDDING AND BACK FILLING OF SEWERS SHALL BE IN ACCORDANCE WITH DTK SPECIFICATIONS IN DRAWINGS.
  15. ALL SERVICES TRENCHES IN ROADS SHALL BE BACK FILLED AND PROPERLY COMPACTED WITH GRANULAR MATERIAL AS PER DTK TYPICAL DETAILS.
  16. ALL GULLIES AND MANHOLES LOCATED IN THE PUBLIC ROAD SHALL BE LOCKING TYPE.
  17. DOUBLE GULLIES TO BE PROVIDED AT ALL ROAD SAC CURVES AND CUL DE SACS WHERE INDICATED. SEPARATE CONNECTIONS SHALL BE PROVIDED FOR EACH GULLY. NO GULLY SHALL BE MORE THAN 10m FROM A SURFACE WATER CONNECTION.
  18. ANCHOR BLOCKS TO BE POSITIONED AT DEAD ENDS, TEES, BENDS AT EACH SIDE OF HYDRANTS AND VALVES. HYDRANT VALVES TO BE 200mm BELOW GROUND LEVEL UNLESS REQUESTED OTHERWISE.

- EX. SERVICES LEGEND:**
- INDICATES DUE BOUNDARY FOR PHASE 1
  - INDICATES ADJACENT LINES TO PHASE 1
  - INDICATES BOUNDARIES BETWEEN FUTURE UNITS
  - INDICATES EXISTING SURFACE WATER MAIN
  - INDICATES EXISTING SURFACE WATER MAIN
  - INDICATES EXISTING FOUL MAIN
  - INDICATES EXISTING WATER MAIN
  - INDICATES EXISTING OVERHEAD ESB CABLES
  - INDICATES EXISTING FLOOR WATER PILING MAIN
  - INDICATES EXISTING ERGON
  - INDICATES EXISTING STREET LIGHTING
  - INDICATES EXISTING GAS LINE
  - INDICATES EXISTING WASTEWATER SERVICE
  - INDICATES EXISTING ELECTRICITY POLE
  - INDICATES WAYLEAVE FOR EXISTING SERVICES
  - INDICATES EXISTING LEVELS

- DRAINAGE LEGEND:**
- INDICATES PROPOSED SURFACE WATER CARRIER SEWER
  - INDICATES PROPOSED SURFACE WATER SEWER
  - INDICATES PROPOSED SURFACE WATER MANHOLE
  - INDICATES PROPOSED SURFACE WATER CARRIER SEWER (FOR TAKING IN CHARGE)
  - INDICATES PROPOSED SURFACE WATER MANHOLE (FOR TAKING IN CHARGE)
  - INDICATES PROPOSED PERFORATED PIPE HIGH LEVEL OVERFLOW
  - INDICATES PROPOSED SURFACE WATER MANHOLE (FOR TAKING IN CHARGE)
  - INDICATES PROPOSED PLANTED SMILE - TYPE 1
  - INDICATES PROPOSED PLANTED SMILE - TYPE 2
  - INDICATES GREEN ROOF
  - INDICATES PROPOSED RAIN GREEN / BIORETENTION AREA
  - INDICATES PROPOSED SURFACE WATER ACCESS CHAMBER
  - INDICATES PROPOSED GULLY TRAP
  - INDICATES PROPOSED KERB INLET
  - INDICATES ADD CHANNEL REF. 5100 PRE-SLOPED ADD-DRAIN LOAD CLASS E (DESIGN TO BE SUBMITTED FOR APPROVAL)
  - INDICATES EXISTING SURFACE WATER DRAIN
  - INDICATES EXISTING SURFACE WATER MANHOLE
  - INDICATES PROPOSED FOUL SEWER
  - INDICATES PROPOSED FOUL MANHOLE
  - INDICATES PROPOSED FOUL ACCESS CHAMBER
  - INDICATES EXISTING FOUL SEWER
  - INDICATES EXISTING FOUL MANHOLE
  - INDICATES WAYLEAVE FOR EXISTING SERVICES



Rev.	Date	By	Checked	Revision

FOR COMPLIANCE

Architect  
**TOT ARCHITECTS**

Project  
**WAREHOUSING/ LOGISTICS, OFFICE & CAFE/RESTAURANT DEVELOPMENT AT CALMOUNT ROAD, BALLYMOUNT, DUBLIN 12**

Eng. Title  
**PROPOSED DRAINAGE LAYOUT FOR UNITS - STORM WATER ONLY**

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