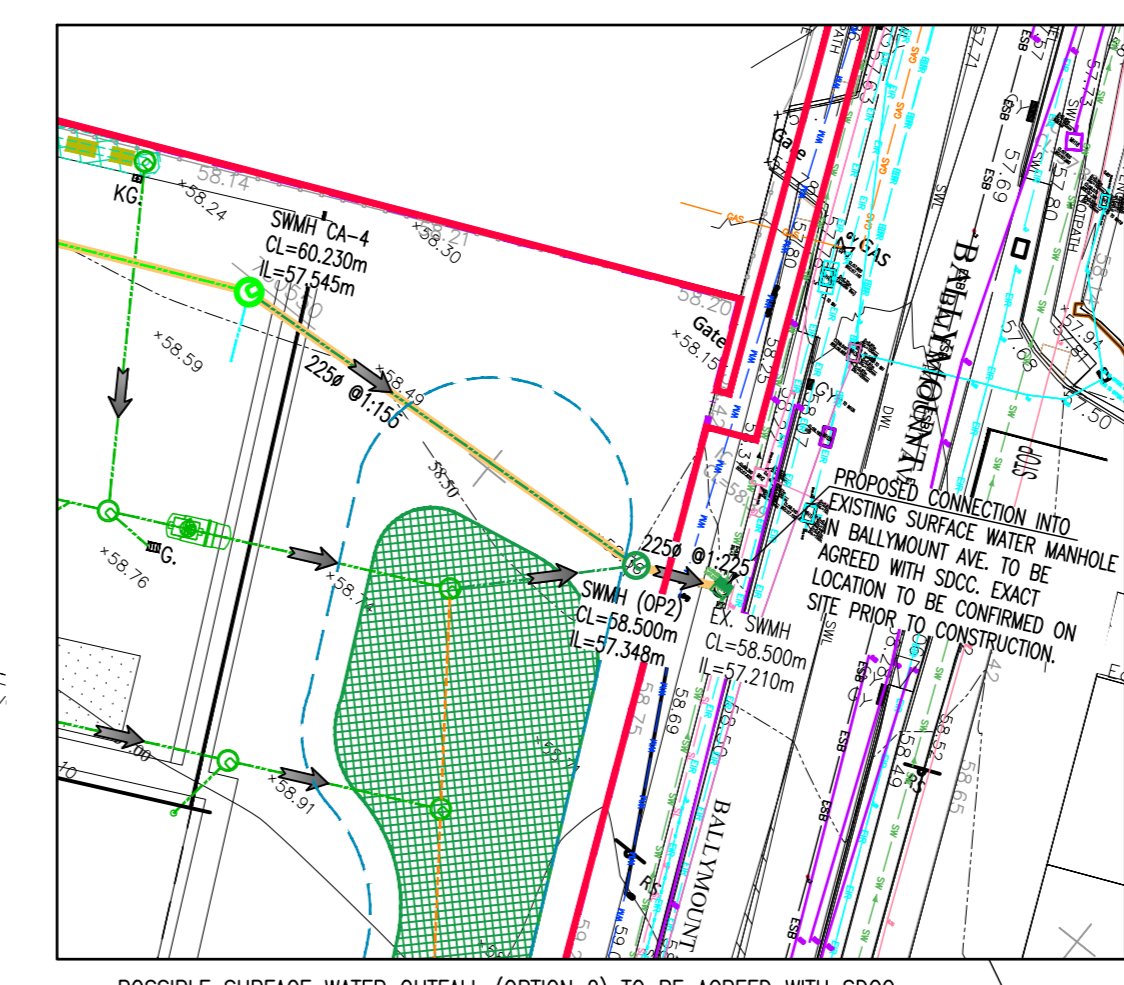
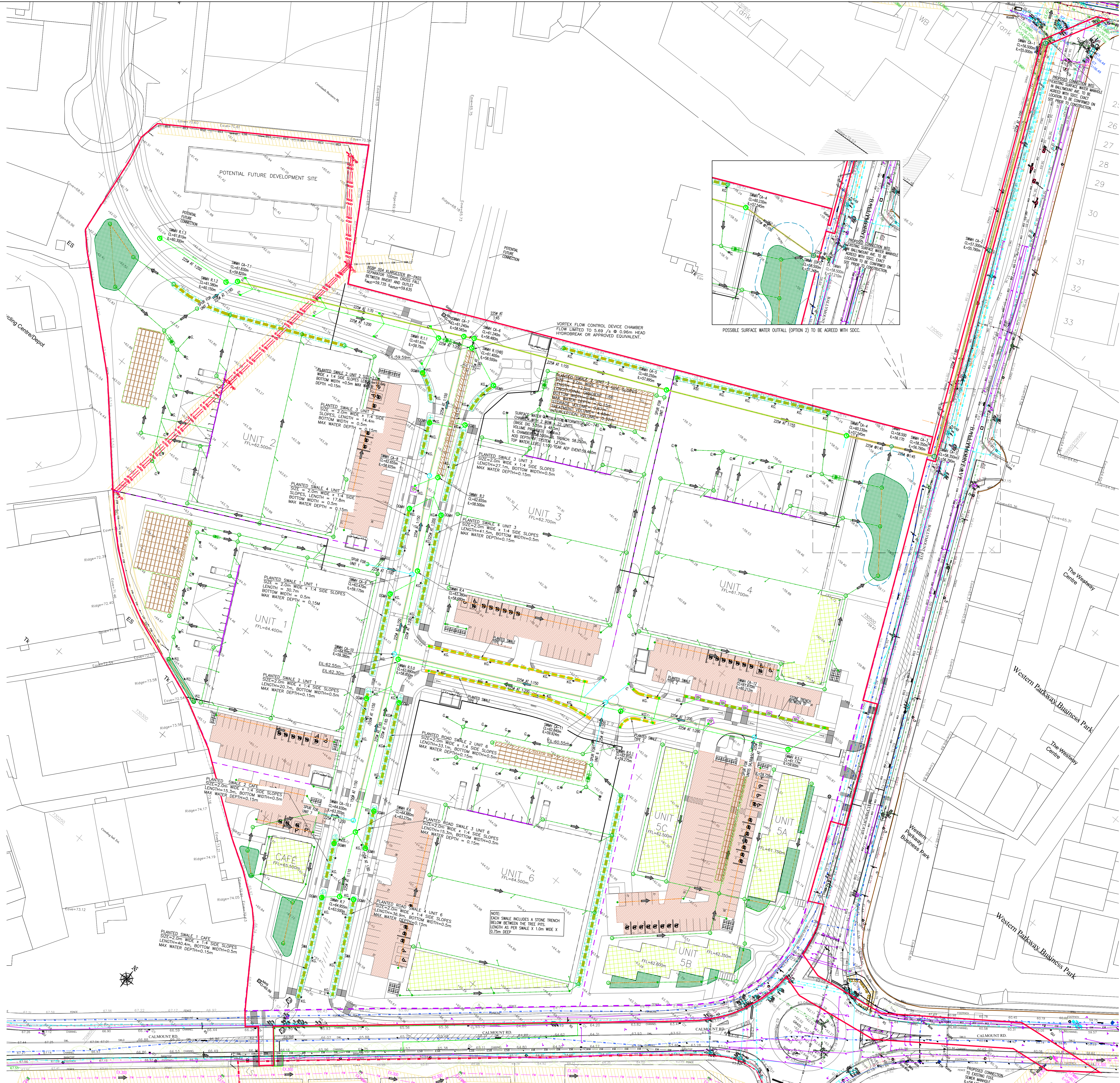


EX. SERVICES LEGEND:

- INDICATES SITE BOUNDARY FOR PHASE 1
- INDICATES ADJACENT LINES TO PHASE 1
- INDICATES UNPLANNED OVERSLOP
- INDICATES BOUNDARIES BETWEEN FUTURE UNITS
- INDICATES EXISTING SURFACE WATER MANHOLE
- INDICATES EXISTING SURFACE WATER DRAIN
- INDICATES EXISTING FOUL MANHOLE
- INDICATES EXISTING FOUL SEWER
- INDICATES EXISTING WATERMAIN
- INDICATES EXISTING OVERHEAD ESB CABLES
- INDICATES EXISTING OVERHEAD FIBRE OPTIC
- INDICATES EXISTING FIBRE OPTIC PLANNING MAIN
- INDICATES EXISTING STREET LIGHTING
- INDICATES EXISTING GAS LINE
- INDICATES EXISTING LANDFILL SERVICE
- INDICATES EXISTING ELECTRICITY POLE
- INDICATES WALKWAY 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 SEWER (FOR TAKING IN CHARGE)
- INDICATES PROPOSED PERFORMED PIPE HIGH LEVEL OVERFLOW
- INDICATES PROPOSED SURFACE WATER MANHOLE (FOR TAKING IN CHARGE)
- INDICATES PROPOSED PLANTED SMALE - TYPE 1
- INDICATES PROPOSED PLANTED SMALE - TYPE 2
- INDICATES GREEN ROOF
- INDICATES PROPOSED RAIN GARDEN / BIORETENTION AREA
- INDICATES PROPOSED SURFACE WATER ACCESS CHAMBER
- INDICATES PROPOSED GULLY TRAP
- INDICATES PROPOSED KERB INLET
- INDICATES ARI CHANNEL, REF. S110 PRE-SLOPED ARI-DRAIN, LWD CLASS C (DESIGN TO BE SUBMITTED FOR APPROVAL)
- INDICATES EXISTING SURFACE WATER DRAIN
- INDICATES EXISTING SURFACE WATER MANHOLE
- INDICATES EXISTING FOUL SEWER
- INDICATES PROPOSED FOUL MANHOLE
- INDICATES PROPOSED FOUL ACCESS CHAMBER
- INDICATES EXISTING FOUL SEWER
- INDICATES EXISTING FOUL MANHOLE
- INDICATES WALKWAY FOR EXISTING SERVICES



- NOTES:**
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. DIMENSIONS TO BE CHECKED ON SITE.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL & ENGINEERING DRAWINGS & ALL OTHER RELEVANT DRAWINGS & SPECIFICATIONS.
 - ALL LEVELS RELATE TO O.S. DATUM AT MALIN HEAD UNLESS NOTED OTHERWISE.
 - 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.
 - ALL WATERMAIN AND WASTEWATER WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICES - IW-CDS-5030-03 FOR WASTEWATERS AND IW-CDS-5030-03 FOR WASTEWATER.
 - ALL WORKS SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE RECOMMENDATIONS & CONDITIONS ISSUED BY LOCAL AUTHORITY AND IRISH WATER.
 - WATERMAIN TO BE MPE-PE 80 IN ACCORDANCE WITH SECTION 3.3 OF WATER CODE OF PRACTICE COVER TO WATERMAIN TO BE 900mm.
 - ALL FOUL SEWERS TO BE 150mm with CONCRETE OR PVC-U IN ACCORDANCE WITH SECTION 3.13 OF WASTEWATER CODE OF PRACTICE.
 - ALL SURFACE WATER SEWERS TO BE 225mm min CONCRETE (CLASS H) OR PVC-U IN ACCORDANCE WITH SECTION 11.1 OF GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
 - ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL AUTHORITY AND IRISH WATER REQUIREMENTS.
 - 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 0.9m 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.
 - ALL MANHOLE COVERS AND FRAMES SHALL COMPLY WITH IS 1248 AND BE TESTED FOR SUITABLE LOAD RATINGS FOR THE PROPOSED LOCATION AND COMPLY WITH LOCAL AUTHORITY'S AND IRISH WATER REQUIREMENTS.
 - 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.
 - 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 & DRAWINGS.
 - ALL SERVICES TRENCHES IN ROADS SHALL BE BACK FILLED AND PROPERLY COMPACTED WITH GRANULAR MATERIAL AS PER DTK TYPICAL DETAILS.
 - ALL GULLIES AND MANHOLES LOCATED IN THE PUBLIC ROAD SHALL BE LOCKING TYPE.
 - 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.
 - ANCHOR BLOCKS TO BE POSITIONED AT DEAD ENDS, TEES, BENDS AT EACH SIDE OF HYDRANTS AND VALVES. HYDRANT GULLIES TO BE 200mm BELOW GROUND LEVEL UNLESS REQUESTED OTHERWISE.

Rev.	Date	Drawn By	Checked By	Revision

Status: FOR COMPLIANCE

Architect: TOT ARCHITECTS

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

Eng. Title: PROPOSED DRAINAGE LAYOUT FOR INTERNAL ROADS - STORM WATER ONLY

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