

**NOTES:**

ALL PROPOSED PUBLIC STORM WATER DRAINAGE WORKS TO BE IN ACCORDANCE WITH FINGL COUNTY COUNCIL'S REQUIREMENTS FOR RAIN IN CHARGE AND IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

ALL PROPOSED PUBLIC FOUW WATER DRAINAGE WORKS TO BE IN ACCORDANCE WITH IRISH WATER REQUIREMENTS.

ALL PRIVATE DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H. ALL COVER LEVELS ARE INDICATED ONLY AND SHOULD BE SET TO SUIT THE FINISHED ROAD OR PARKED LEVEL. LEVELS IN REAR GARDENS HAVE BEEN ASSUMED AS STRAIGHT GRADE TO ADJACENT ROAD/SURFACE LEVEL. EXTERNAL LEVELS TO BE CONFIRMED BY ARCHITECT.

GROUND SURFACE PEEL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 3.13 OF THE IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.

THE TYPES AND FITTINGS OUTLINED HEREIN SHALL BE USED IN THE CONSTRUCTION OF THE GRADY SENSERS. PIPE MATERIAL SHOULD NOT CHANGE BETWEEN MANHOLES. THE LIST BELOW DOES NOT APPLY TO PIPES INSTALLED BY PIPE JACKING OR MICRO TUNNELLING.

CONCRETE CONCRETE SENSER PIPES WITH SPIGOT AND SOCKET JOINTS AND RUBBER RING FITTINGS SHALL COMPLY WITH IS EN 1916 (2002), BS 5911, PART 1 (2002 - 2010) AND IS 6 (2004) OR EQUIVALENT STANDARD. STRENGTH CLASS 120 WITH MINIMUM CRUSHING LOADS IN ACCORDANCE WITH TABLE 8 OF BS 5911-1 (2002/2010).

ALL PIPES AND FITTINGS SHALL HAVE GASKET TYPE JOINTS OF SPIGOT AND SOCKET OR REBATED FORM (PIPE DIAMETERS 225MM AND ABOVE).

THERMOPLASTIC STRUCTURED WALL PIPES SHALL COMPLY WITH THE PROVISIONS OF IS EN 13476 (2007/2009). PIPES TO BE OF STIFFNESS CLASS Bx/1/2 AND TO BE CAPABLE OF DEMONSTRATING A JETTING RESISTANCE OF 2.600 PSI (180 BAR) WITHOUT DAMAGE WHEN TESTED IN ACCORDANCE WITH SECTION 3.3 OF WS 4-35-01 (2008) (SEWER UNPLASTICISED EXC. UNPLASTICISED PVC PIPES AND FITTINGS SHALL COMPLY WITH THE PROVISIONS IS EN 1401 2009/2012. PIPES TO BE APPLICATION AREA CODE '00'. STIFFNESS CLASS Bx/1/2. PROVISION FOR JETTING SHALL BE BASED ON THE WIC SEWER JETTING CODE OF PRACTICE, JUNE 1997. PIPES TO BE CAPABLE OF RESISTING A MAXIMUM JETTING PUMP PRESSURE OF 2.600PSI (180 BAR) WITHOUT DAMAGE. (SEWER DIAMETERS 150MM UP TO 450MM. SERVICE CONNECTIONS OF 100MM DIAMETER).

OTHER: THE USE OF ALTERNATIVE PIPE TYPES AND MATERIALS WILL REQUIRE THE PRIOR WRITTEN AGREEMENT OF IRISH WATER. WATER PIPE SLOPES IS NOT ACHIEVABLE IN ROADWAYS. CONCRETE SURROUND SHALL BE PROVIDED IN ACCORDANCE WITH STD-WW-08 OF WASTEWATER INFRASTRUCTURE STANDARD DETAILS.

SEWER LAYOUT DESIGNS:

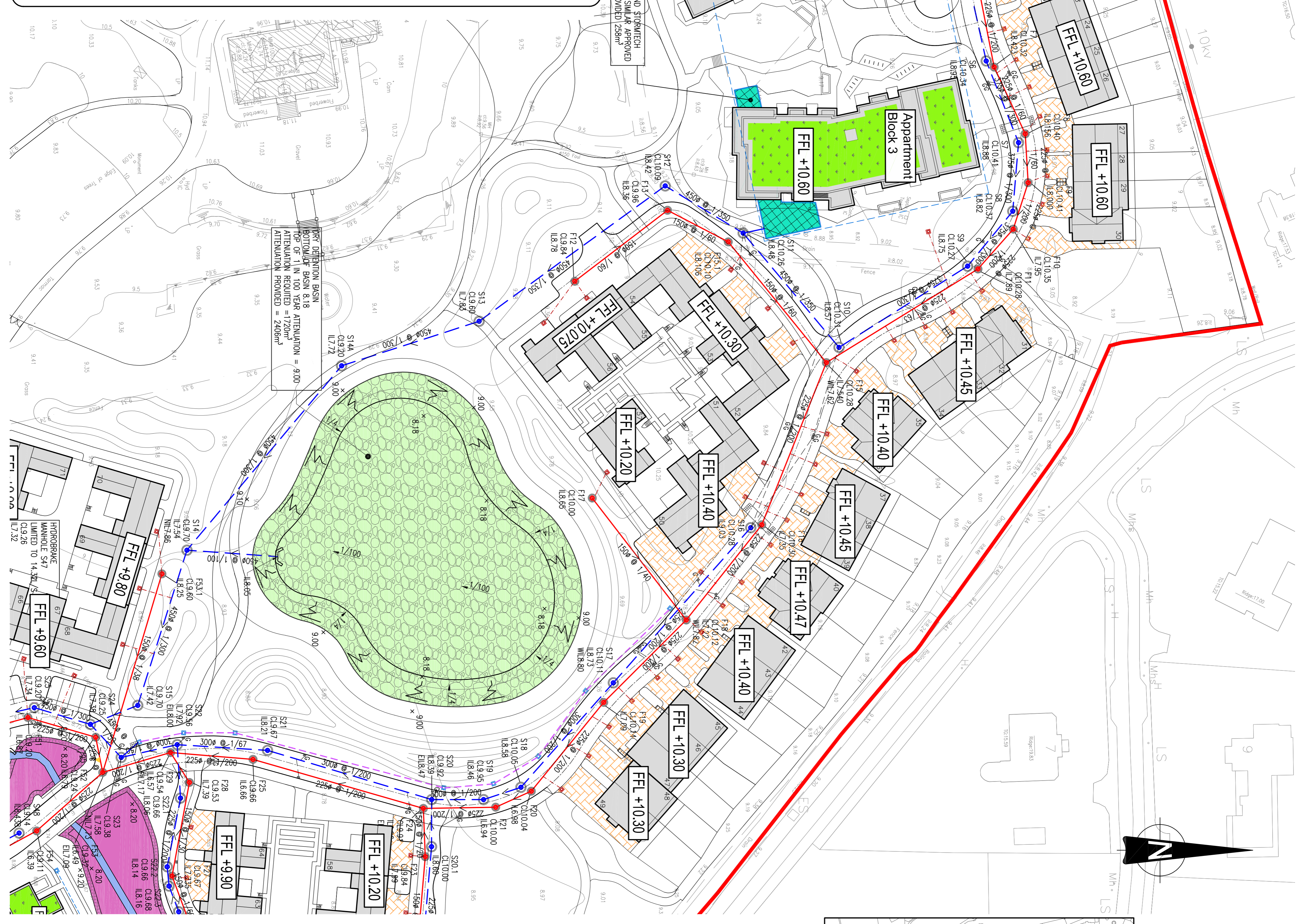
- PROPOSED ABOVE GROUND ATTENUATION STORAGE WITH UNDERLAINING STONE 400mm DEEP
- PROPOSED PERMEABLE PAVING
- PROPOSED RAIN GARDEN
- EXISTING DITCH NETWORK
- PROPOSED STORMTECH ATTENUATION STORAGE
- PROPOSED GREEN ROOF

RESTRICTIONS ON PLANNING:

PLANNING ADJACENT TO WASTEWATER INFRASTRUCTURE SHALL BE IN COMPLIANCE WITH IRISH WATER STANDARD DETAILS STD-WW-06 AND STD-WW-08A.

**LEGEND:**

- 1.5" Existing foul water sewer with pipe size, L x X GRADE, MANHOLE REF. AND INVERT LEVEL
- 1.5" Existing surface water sewer with pipe size, L x X GRADE, MANHOLE REF. AND INVERT LEVEL
- 1.5" Proposed foul water sewer with pipe size, L x X GRADE, MANHOLE REF. AND INVERT LEVEL
- 1.5" Proposed surface water sewer with pipe size, L x X GRADE, MANHOLE REF. AND INVERT LEVEL
- 1.5" Proposed surface water sewer with pipe size, L x X GRADE, MANHOLE REF. AND INVERT LEVEL
- 1.5" Proposed 150mm foul resin man connection
- 1.5" Proposed surface water inspection chamber and connection
- 1.5" Proposed surface water inspection chamber and connection
- 1.5" Proposed 225mm filter drain
- 1.5" Proposed gully and connection
- 1.5" Proposed 0.3m wide kerb opening for surface water run-off, max center's 25m
- 1.5" Proposed permeable paving
- 1.5" Proposed above ground attenuation storage with underlying stone 400mm deep
- 1.5" Proposed rain garden
- 1.5" Existing ditch network
- 1.5" Proposed stormtech attenuation storage
- 1.5" Proposed green roof



**NOTE:** ALL INDIVIDUAL PRIVATE FOUW WATER DRAINS TO BE 100mm PIPES, MIN AT 1/60, MAX AT 1/30. ALL COLLECTOR FOUW WATER DRAINS TO BE 150mm PIPES.

**STATUS**

**PLANNING**

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REV. DATE	AMENDMENT	DRN APPD
A	07/21 REVISED FOR FINAL SUBMISSION	PJD MD

**CLIENT:** KINNEST LTD.  
**ARCHITECT:** CONROY CROWE KELLY ARCHITECTS  
**PROJECT:** ALBURN, MALAHIDE, CO. DUBLIN

**TITLE:** DRAINAGE LAYOUT SHEET 1 OF 3

DESIGNED	APPROVED	DATE
PJD	MD	APR 20
SCALE 1:500 @ A1	JOB NO. 19-020	REVISED 1:201

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