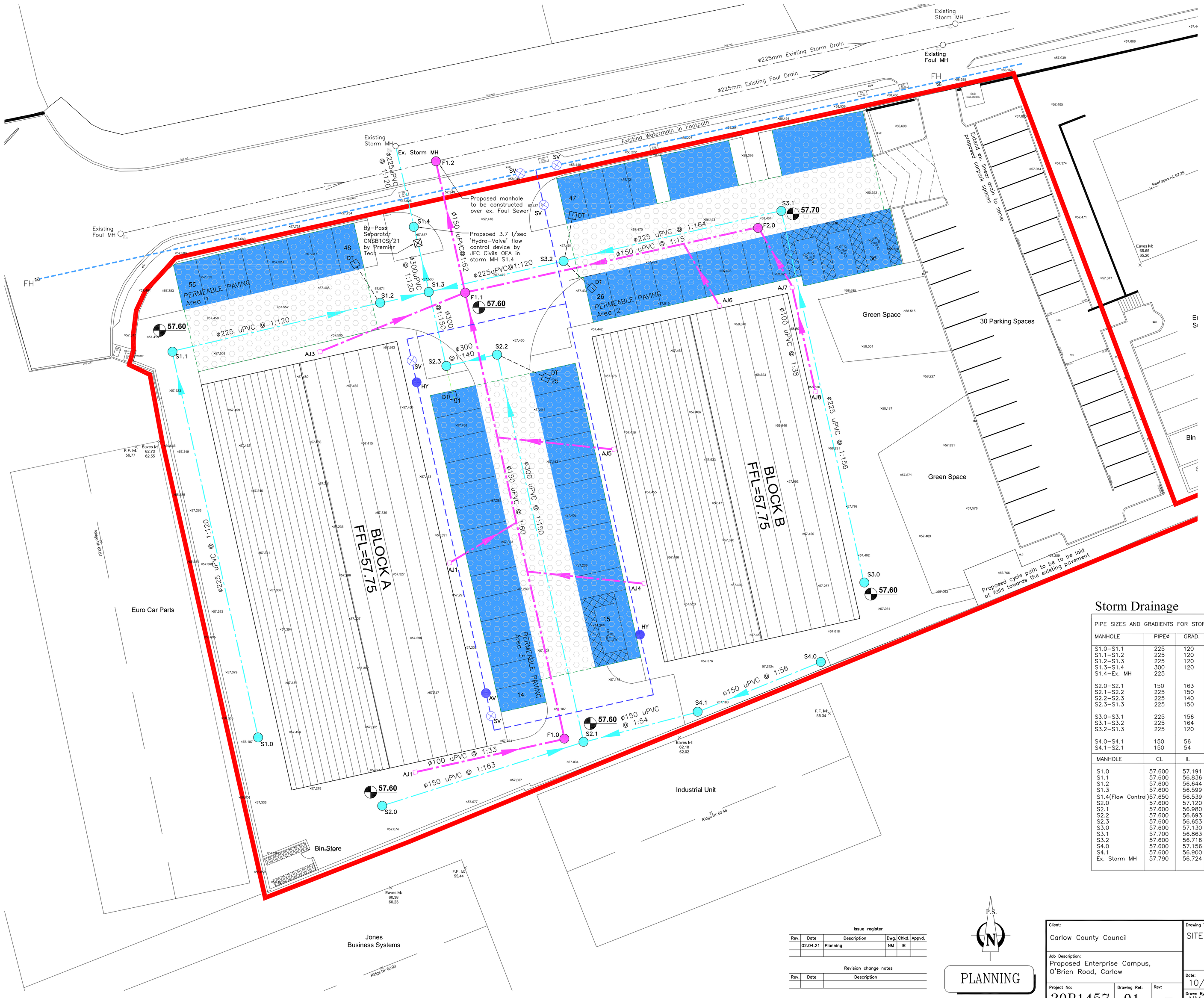

NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD
5. ALL SURFACE WATER DETAILS TO LOCAL AUTHORITY REQUIREMENTS
6. ALL PEDESTRIAN JUNCTIONS TO HAVE DISHED KERBS WITH 400x400mm BUFF TACTILE BLISTER PAVING TO NRA PEDESTRIAN CROSSING SPECIFICATION AND GUIDANCE APRIL 2011
7. ALL TRAFFIC SIGNS & ROAD MARKINGS AS PER CURRENT TRAFFIC DESIGN MANUAL
8. FOR ALL SEWER AND WATER SERVICE CONSTRUCTION DETAILS REFER TO STANDARD DETAILS FROM IRISH WATER

WATER MAIN PIPE MATERIAL SPECIFICATION:

HPPE pipes shall be of a type PE-100 and have an SDR-11 or SDR-17 rating. They shall conform to IS EN 12201: Part 1 and Part 2 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure - Part 1, General, and Part 2, Pipes) and I.S. EN 12201-3 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure - Part 3: Fittings). HPPE pipes should be of type PE-100 and have an SDR rating of 17. They shall conform to IS EN 12201: Part 2: 2003.

GRAVITY SEWER PIPE MATERIAL SPECIFICATION:

Unplasticised PVC pipes and fittings shall comply with the provisions IS EN 1401 2009/2012. Pipes to be application area code "UD", Stiffness Class 8kN/m2 for roads & footpaths, Stiffness Class 4kN/m2 for soft landscaped/grass areas with no vehicle access.

Provision for jetting shall be based on the WRc 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)

PROPOSED ROAD CONSTRUCTION:

-SURFACE COURSE. (40mm)

THE SURFACE COURSE SHALL BE CLAUSE 942 POLYMER MODIFIED STONE MASTIC ASPHALT (PMSMA) WITH 14 mm NOMINAL SIZE, MIXTURE DESIGNATION "SMA 14 Surf PMB 65/105-60 des", SUPPLIED, LAID AND COMPACTED IN ACCORDANCE WITH THE NRA SPECIFICATION FOR ROAD WORKS 900 SERIES (MARCH 2011) AND BS594987 (2010). THE COURSE AGGREGATE SHALL CONSIST OF CRUSHED ROCK COMPLYING WITH CLAUSE 901.4 AND THE REQUIREMENTS OF TABLE 9/32 OF CLAUSE 942 OF THE NRA SPECIFICATION FOR ROAD WORKS (March 2011). THE PSV OF THE COURSE AGGREGATE SHALL BE PSV 60declared UNLESS OTHERWISE STATED IN TABLE 3.11 OF HD36 (NRA DMRB 7.5.1).

- BASE COURSE. (60mm)

THE BASE COURSE BITUMINOUS MATERIAL SHALL BE DENSE BASE COURSE ASPHALT CONCRETE SUPPLIED, LAID AND COMPACTED IN ACCORDANCE WITH THE NRA SPECIFICATION FOR ROAD WORKS 900 SERIES (MARCH 2011). THE DENSE BASE COURSE SHALL BE MIXTURE DESIGNATION "AC 32 dense base 70/100 rec" COMPOSITION COMPLYING WITH CLAUSE 906 OF THE NRA SPECIFICATION FOR ROAD WORKS (MARCH 2011).

-SUB BASE (150mm) WELL COMPACTED SR21 MATERIAL

-CAPPING LAYER TO 6F1. DEPTH SUBJECT TO ONSITE TESTING

Legend

- PROPOSED SITE BOUNDARY
- 60.65 PROPOSED LEVEL
- ×57.489 EXISTING LEVEL
- PROPOSED PERMEABLE PAVING
- PROPOSED SUB-BASE STORMWAT STORAGE AREA
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED FOUL SEWER
- PROPOSED AJ
- EXISTING FOUL SEWER
- PROPOSED WATERMAIN
- SV PROPOSED SLUICE VALVE
- AV PROPOSED AIR VALVE
- HY PROPOSED HYDRANT

Storm Drainage

PIPE SIZES AND GRADIENTS FOR STORM PIPE RUNS

MANHOLE	PIPEø	GRAD.	SPEC	Stn class
S1.0-S1.1	225	120	uPVC	8
S1.1-S1.2	225	120	uPVC	8
S1.2-S1.3	225	120	uPVC	8
S1.3-S1.4	300	120	uPVC	8
S1.4-Ex. MH	225			
S2.0-S2.1	150	163	uPVC	8
S2.1-S2.2	225	150	uPVC	8
S2.2-S2.3	225	140	uPVC	8
S2.3-S1.3	225	150	uPVC	8
S3.0-S3.1	225	156	uPVC	8
S3.1-S3.2	225	164	uPVC	8
S3.2-S1.3	225	120	uPVC	8
S4.0-S4.1	150	56	uPVC	8
S4.1-S2.1	150	54	uPVC	8

MANHOLE	CL	IL	DEPTH(m)
S1.0	57.600	57.191	0.409
S1.1	57.600	56.836	0.764
S1.2	57.600	56.644	0.956
S1.3	57.600	56.599	1.001
S1.4(Flow Control)	57.650	56.539	1.111
S2.0	57.600	57.120	0.480
S2.1	57.600	56.980	0.620
S2.2	57.600	56.693	0.907
S2.3	57.600	56.653	0.947
S3.0	57.600	57.130	0.470
S3.1	57.700	56.863	0.837
S3.2	57.600	56.716	0.884
S4.0	57.600	57.156	0.444
S4.1	57.600	56.900	0.700
Ex. Storm MH	57.790	56.724	1.066

Foul Drainage

PIPE SIZES AND GRADIENTS FOR FOUL PIPE RUNS

MANHOLE	PIPEø	GRAD	SPEC	Stn class
AJ1-F1.0	100	33	uPVC	8
F1.0-F1.1	150	60	uPVC	8
F1.1-F1.2	150	62	uPVC	8
AJ2-F1.1	100	16	uPVC	8
AJ3-F1.1	100	31	uPVC	8
AJ4-F1.1	100	25	uPVC	8
AJ5-F1.1	100	25	uPVC	8
AJ6-F1.1	100	14	uPVC	8
AJ8-AJ7	100	38	uPVC	8
AJ7-F2.0	150	38	uPVC	8
F2.0-F1.1	150	15	uPVC	8

MANHOLE	CL	IL	DEPTH(m)
F1.0	57.60	56.948	0.652
F1.1	57.60	56.121	1.479
F1.2	57.75	55.888	1.862
F2.0	57.70	57.100	0.600

Issue register

Rev.	Date	Description	Dwg.	Chkd.	Appvd.
	02.04.21	Planning	NM	IB	

Revision change notes

Rev.	Date	Description

P.S.

PLANNING

Client: Carlow County Council

Job Description: Proposed Enterprise Campus, O'Brien Road, Carlow

Project No: 20P1457 | Drawing Ref: 01 | Rev: -

Drawing Title: SITE SERVICES LAYOUT PLAN

Date: 10/03/21 | Scale: 1:200 @ A1

Drawn By: NM | Checked By: IB

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