HAYES HIGGINS PARTNERSHIP,

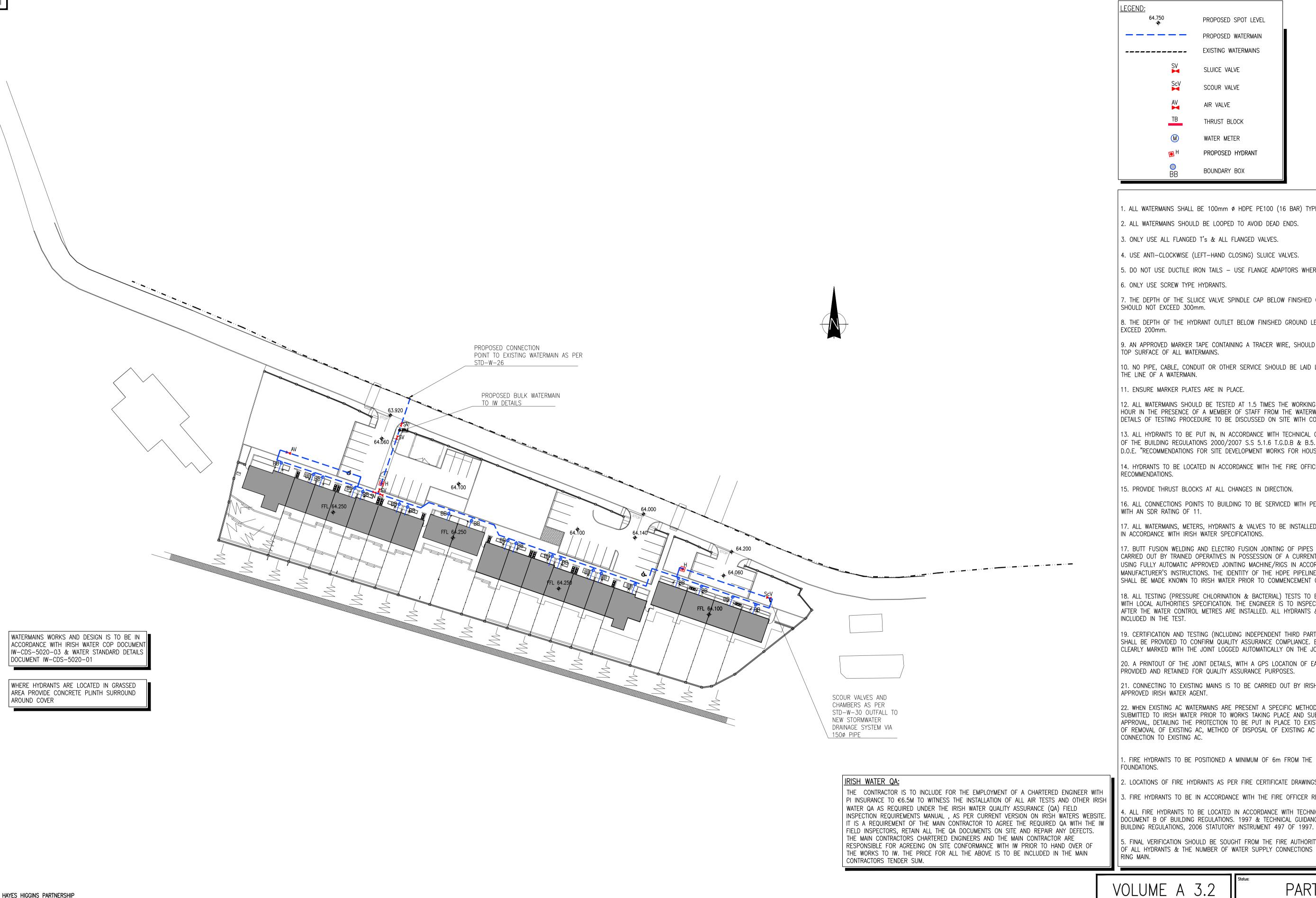
GAS HOUSE LANE, KILKENNY.

Tel: 056-7764710 Fax: 056-7723223 e-mail: info@hhp.ie Dwg.Cat: Part 8

Signed: Tony Dalessandro

## DRAWING / DOCUMENT REGISTER & ISSUE SHEET - CIVIL

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	Layout	Shown												
C-002	Traffic Signs & Road Markings	As	PL1											
	Layout	Shown												
C-003	Build Up Layout	As	PL1											
		Shown												
C-010	Foul	As	PL1											
	Drainage Layout	Shown												
C-020	Storm	As	PL1							<u>†                                      </u>				
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64.750 PROPOSED SPOT LEVEL PROPOSED WATERMAIN EXISTING WATERMAINS SLUICE VALVE SCOUR VALVE AIR VALVE THRUST BLOCK WATER METER PROPOSED HYDRANT BOUNDARY BOX

1. ALL WATERMAINS SHALL BE 100mm Ø HDPE PE100 (16 BAR) TYPE WATERMAIN U.N.O.

2. ALL WATERMAINS SHOULD BE LOOPED TO AVOID DEAD ENDS.

3. ONLY USE ALL FLANGED T'S & ALL FLANGED VALVES.

4. USE ANTI-CLOCKWISE (LEFT-HAND CLOSING) SLUICE VALVES.

5. DO NOT USE DUCTILE IRON TAILS - USE FLANGE ADAPTORS WHERE APPLICABLE.

6. ONLY USE SCREW TYPE HYDRANTS.

7. THE DEPTH OF THE SLUICE VALVE SPINDLE CAP BELOW FINISHED GROUND LEVEL SHOULD NOT EXCEED 300mm.

8. THE DEPTH OF THE HYDRANT OUTLET BELOW FINISHED GROUND LEVEL, SHOULD NOT

9. AN APPROVED MARKER TAPE CONTAINING A TRACER WIRE, SHOULD BE AFFIXED TO THE

10. NO PIPE, CABLE, CONDUIT OR OTHER SERVICE SHOULD BE LAID LONGITUDINALLY OVER

11. ENSURE MARKER PLATES ARE IN PLACE.

 $\mid$  12. ALL WATERMAINS SHOULD BE TESTED AT 1.5 TIMES THE WORKING PRESSURE FOR ONE HOUR IN THE PRESENCE OF A MEMBER OF STAFF FROM THE WATERWORKS DEPARTMENT. DETAILS OF TESTING PROCEDURE TO BE DISCUSSED ON SITE WITH CONTRACTOR.

13. ALL HYDRANTS TO BE PUT IN, IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT OF THE BUILDING REGULATIONS 2000/2007 S.S 5.1.6 T.G.D.B & B.5.1 T.G.B.D & THE D.O.E. "RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS".

14. HYDRANTS TO BE LOCATED IN ACCORDANCE WITH THE FIRE OFFICER'S RECOMMENDATIONS.

15. PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION.

16. ALL CONNECTIONS POINTS TO BUILDING TO BE SERVICED WITH PE-X-100 HDPE PIPE WITH AN SDR RATING OF 11.

17. ALL WATERMAINS, METERS, HYDRANTS & VALVES TO BE INSTALLED, TESTED & CLEANED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.

17. BUTT FUSION WELDING AND ELECTRO FUSION JOINTING OF PIPES SHALL ONLY BE CARRIED OUT BY TRAINED OPERATIVES IN POSSESSION OF A CURRENT TRAINING CERTIFICATE USING FULLY AUTOMATIC APPROVED JOINTING MACHINE/RIGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE IDENTITY OF THE HDPE PIPELINE MANUFACTURER SHALL BE MADE KNOWN TO IRISH WATER PRIOR TO COMMENCEMENT OF THE INSTALLATION.

18. ALL TESTING (PRESSURE CHLORINATION & BACTERIAL) TESTS TO BE IN ACCORDANCE WITH LOCAL AUTHORITIES SPECIFICATION. THE ENGINEER IS TO INSPECT THE PRESSURE TEST AFTER THE WATER CONTROL METRES ARE INSTALLED. ALL HYDRANTS & VALVES ARE TO BE INCLUDED IN THE TEST.

19. CERTIFICATION AND TESTING (INCLUDING INDEPENDENT THIRD PARTY CERTIFICATION) SHALL BE PROVIDED TO CONFIRM QUALITY ASSURANCE COMPLIANCE. EACH JOINT SHALL BE CLEARLY MARKED WITH THE JOINT LOGGED AUTOMATICALLY ON THE JOINTING MACHINE.

20. A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT, SHALL BE PROVIDED AND RETAINED FOR QUALITY ASSURANCE PURPOSES.

21. CONNECTING TO EXISTING MAINS IS TO BE CARRIED OUT BY IRISH WATER OR AN APPROVED IRISH WATER AGENT.

22. WHEN EXISTING AC WATERMAINS ARE PRESENT A SPECIFIC METHOD STATEMENT SHALL E SUBMITTED TO IRISH WATER PRIOR TO WORKS TAKING PLACE AND SUBJECT TO WRITTEN APPROVAL, DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING MAINS, METHOD OF REMOVAL OF EXISTING AC, METHOD OF DISPOSAL OF EXISTING AC AND METHOD OF CONNECTION TO EXISTING AC.

1. FIRE HYDRANTS TO BE POSITIONED A MINIMUM OF 6m FROM THE PROPOSED BUILDING

2. LOCATIONS OF FIRE HYDRANTS AS PER FIRE CERTIFICATE DRAWINGS.

3. FIRE HYDRANTS TO BE IN ACCORDANCE WITH THE FIRE OFFICER RECOMMENDATIONS.

4. ALL FIRE HYDRANTS TO BE LOCATED IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS. 1997 & TECHNICAL GUIDANCE DOCUMENT B OF

5. FINAL VERIFICATION SHOULD BE SOUGHT FROM THE FIRE AUTHORITY FOR AGREED LAYOU OF ALL HYDRANTS & THE NUMBER OF WATER SUPPLY CONNECTIONS TO THE FIRE WATER

(C) HAYES HIGGINS PARTNERSHIP

	Referenced drawings			Issue register			
Dwg No.	Dwg Title	Re	v. Date	Description	Dwn	. Chkd.	Appvd.
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### NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION 4. DO NOT SCALE — WORK TO FIGURE WITH ALL RELEVANT ARCHITECTS, SERVICE DIMENSIONS ONLY.

ENGINEERS DRAWINGS & SPECIFICATIONS. 2. ALL LEVELS ARE STRUCTURAL UNLESS NOTED

OTHERWISE. 3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.









# WATERMAIN & LEVELS LAYOUT

Date: <b>29.09.21</b>	Scale: A1 - 1:50 /	A3 - 1:100
Drawn By: T.DALESSANDRO	Checked By: M.CARR	Approved By: N.PATTERSON

t:	OFFALY	COUNTY	COUNCIL	
Description:				_

20KK019

RESIDENTIAL DEVELOPMENT AT DARGAN DRIVE, CHANCERY LANE, TULLAMORE, Co. OFFALY

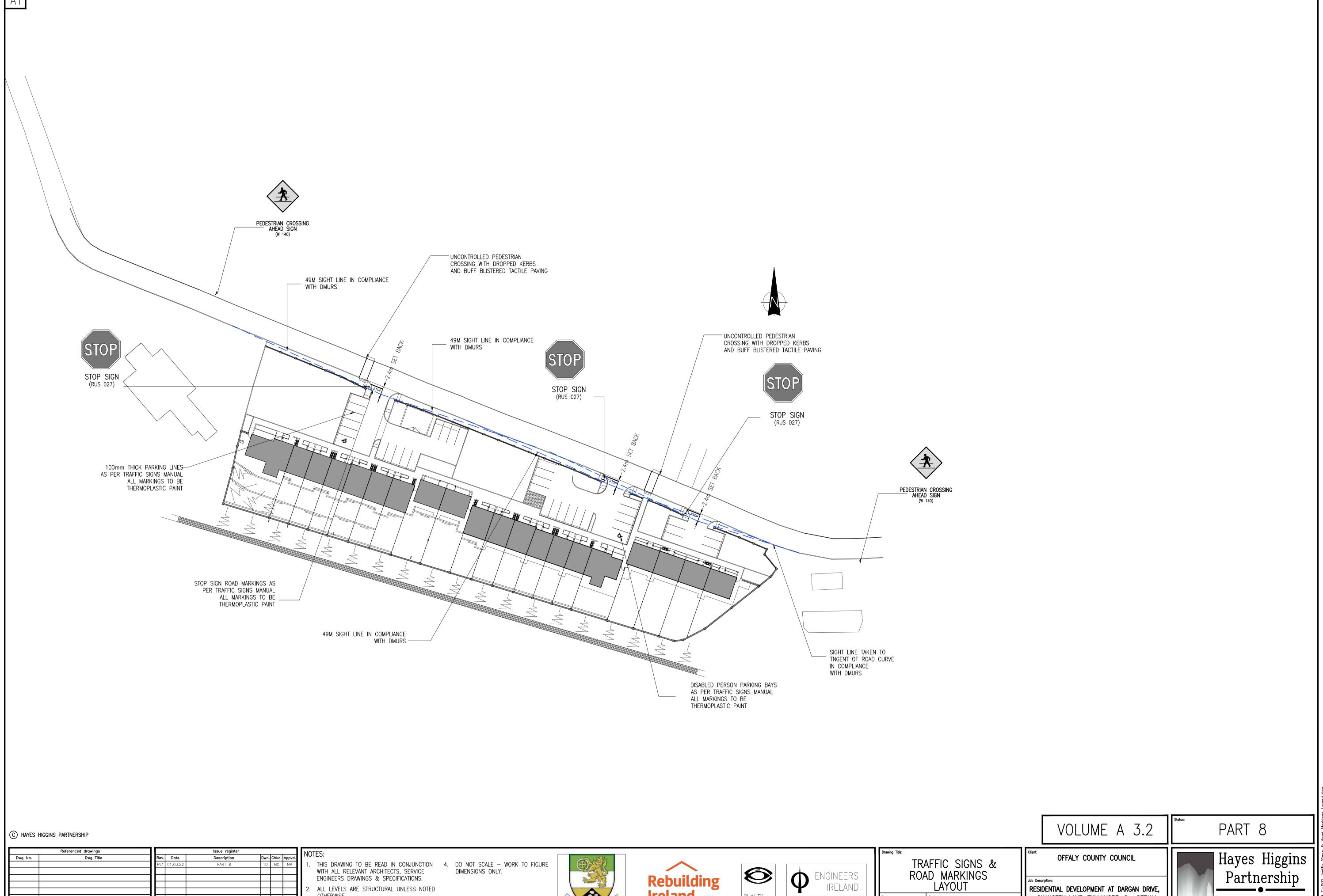
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Partnership

Fitzwilliam Square, Dublin 2. (01) 6612321 (01) 6625804 admin@hayeshiggins

PART 8



**Ireland** 

cpd accredited company

ALL LEVELS ARE STRUCTURAL UNLESS NOTED

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING

OTHERWISE.

REGULATIONS.

Fitzwilliam Square, Dublin 2. (01) 6612321 (01) 6625804 admin@hayeshiggin

RESIDENTIAL DEVELOPMENT AT DARGAN DRIVE,

CHANCERY LANE, TULLAMORE, Co. OFFALY

C-002 | PL1

20KK019

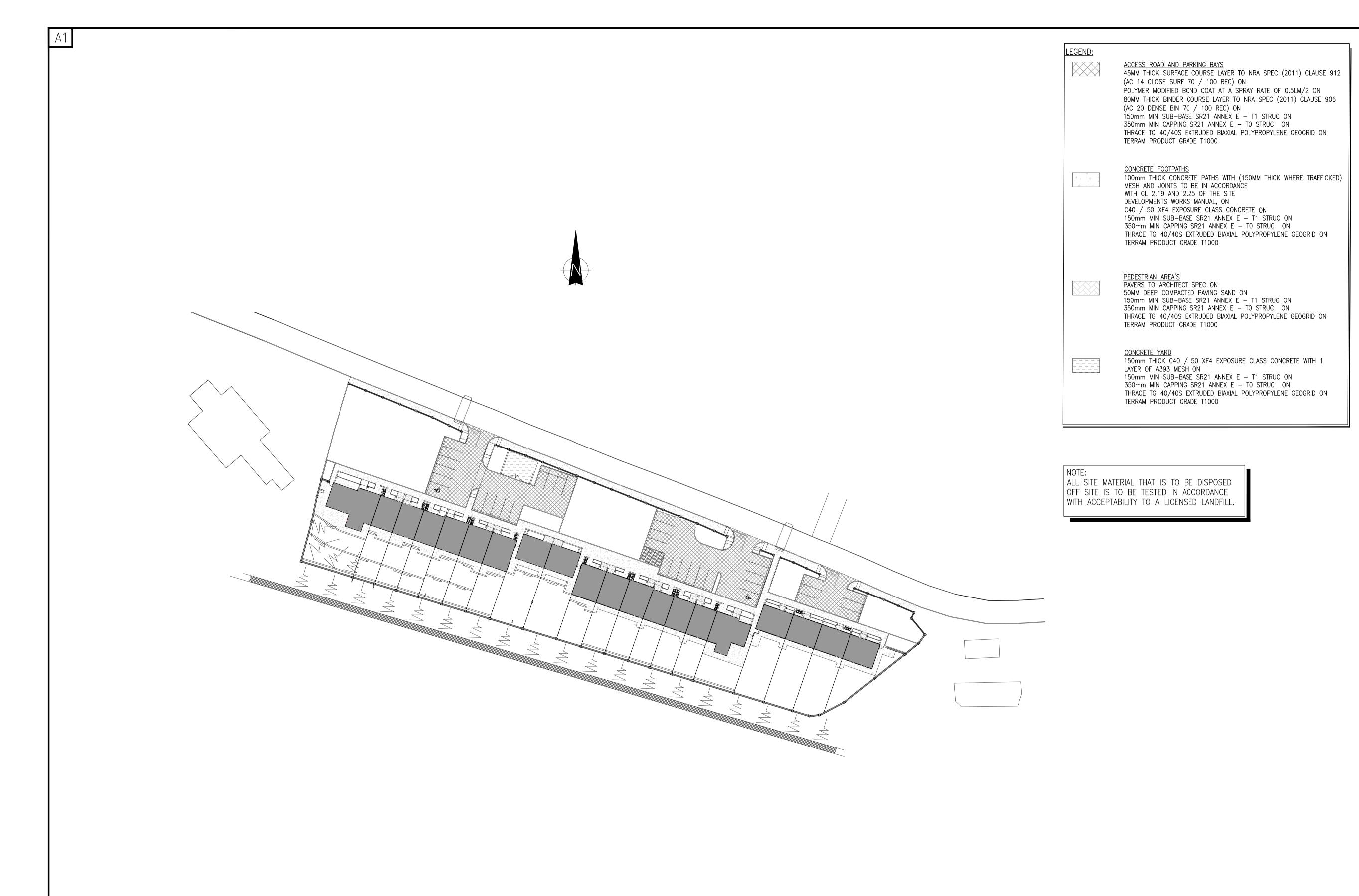
A1 - 1:50 / A3 - 1:100

M.CARR

Approved By:
N.PATTERSON

29.09.21

T.DALESSANDRO



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	Referenced drawings			Issue register			
Dwg No.	Dwg Title	Rev.	Date	Description	Dwn.	. Chkd.	Appvd.
		PL1	01.03.22	PART 8	TD	MC	NP

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Drawing Title:	BUILD-UPS LAYOUT
Date: <b>29.09.21</b>	Scale: A1 - 1:50 / A3 - 1

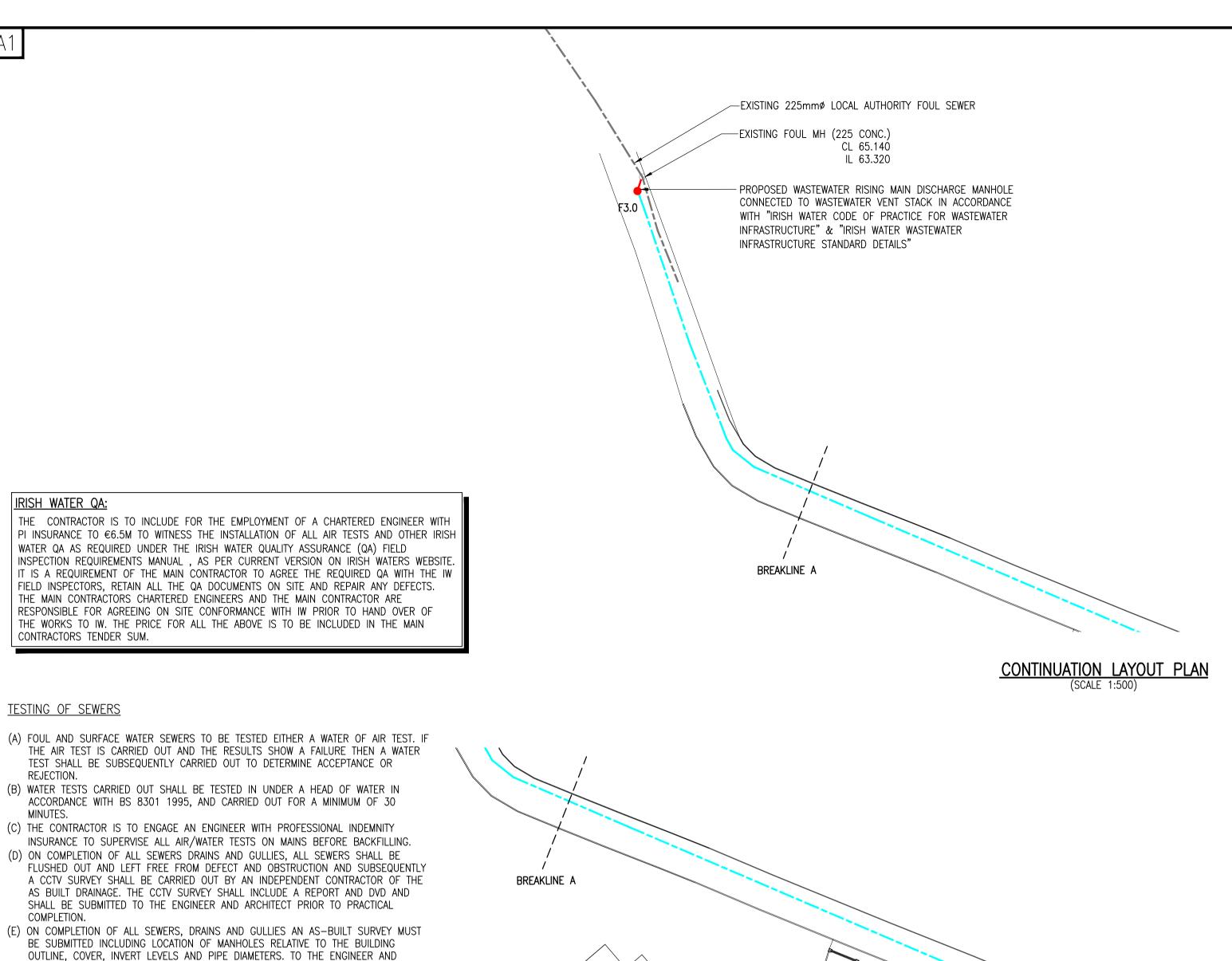
Checked By:

T.DALESSANDRO M.CARR

	Client:		
PS		COUNTY COUNCIL	
	Job Description:  RESIDENTIAL DEVELO	OPMENT AT DARGAN	DRIVE
/ A3 - 1:100		TULLAMORE, Co. OI	-
Approved By:  N.PATTERSON	Project No: 20KK019	C-003	Rev:

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OFFALY COUNTY COUNCIL	Hayes Hi
iption: DENTIAL DEVELOPMENT AT DARGAN DRIVE	Partner

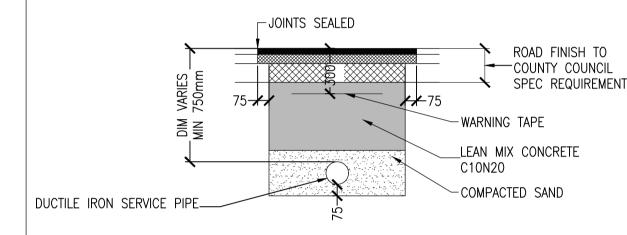
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U/S D/S Pipe Dia Note  ${f IL}$ be Section (m) (m) 63.950 62.600 61.990 150 F1.0 to F1.1 64.150 61.990 61.905 150 F1.1 to F1.2 64.150 61.905 61.355 150 F1.2 to F1.3 F1.3 to F1.4 64.100 61.335 61.045 150 F1.4 to F1.5 64.100 61.045 60.978 150 64.075 60.978 60.950 150 F1.5 to PS F2.0 to F1.4 64.100 63.050 61.715 150

\* = CONCRETE PROTECTION WILL BE PROVIDED OVER PIPE uPVC PIPES ASSUMED AS THE DRAINAGE MATERIAL. BD DENOTES BACKDROP MANHOLE

FOUL DRAINAGE DESIGN TABLE



NOTE ON LOCATING SERVICES IN CARRIAGEWAY:

THE EXISTING SURFACE SHALL BE CUT TO ITS FULL DEPTH WITH A SUITABLE SAW TO FORM A CLEAN

VERTICAL EDGE TO EACH SIDE OF THE TRENCH.

THE CONTRACTOR SHALL MAKE AN ADDITIONAL

BEFORE LAYING THE REINSTATEMENT COURSES.

CUT EDGE TO BE PAINTED WITH HOT MASTIC

WITH THE RELEVANT CLAUSES OF THE N.R.A.

12mm NEOPRENE RUBBER OR SIMILAR BEFORE

OF 300mm, BOTH HORIZONTAL AND VERTICAL.

IT IS THE RESPONSIBILITY OF THE APPLICANT TO

LOCATE AND SAFEGUARD ALL EXISTING SERVICES DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGE

THE 75mm SAND BEDDING MIN CLEARANCE TO THE PIPE SHALL BE INCREASED TO 150mm IN ROCK.

ELECTRICITY - YELLOW, TELECOMMUNICATIONS -GREEN

GAS — RED, WATER SUPPLY — BLUE, SEWAGE —BROWN

WARNING TAPE COLOUR, MINIMUM WIDTH 125mm

AND CONSEQUENTIAL DAMAGE TO SAME.

ALL OTHERS — BLACK

BACKFILLING.

ASPHALT IN THE CASE OF MACADAM REINSTATEMENT.

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE

SPECIFICATION FOR ROADWORKS PUBLISHED IN 2000.

EXISTING SERVICES IN ROADS SHALL BE WRAPPED IN

CLEARANCE BETWEEN SERVICES SHALL BE A MINIMUM

SAW CUT OF 75mm TO THE TRENCH SIDES

MINIMUM CLEARANCE FROM SERVICE TO EDGE OF TRENCH 75mm TYPICAL DETAIL TO BE PROVIDED WHERE

> DEVELOPMENT WORKS FOR HOUSING AREAS'. DEPARTMENT OF THE ENVIRONMENT.

CONCRETE PROTECTION WILL BE PROVIDED OVER PIPES WHERE THE DEPTH OF COVER TO PIPES UNDER ROADS IS LESS THAN 1200MM & 900MM UNDER GRASSED/PAVED AREAS.

ALL PERIMETER DRAINAGE TO ARCHITECTS DETAILS

FOUL SEWER PIPES TO BE THERMOPLASTIC STRUCTURED WALL PIPE STIFFNESS CLASS 8kN/m2 IN ACCORDANCE WITH "IRISH WATER CODE OF PRACTICE FOR PIPE MATERIAL SECTION 3.13"

# C HAYES HIGGINS PARTNERSHIP

	Referenced drawings			Issue register			
Dwg No.	Dwg Title	Rev.	Date	Description	Dwn.	Chkd.	Appvd
		PL1	01.03.22	PART 8	TD	MC	NP

NOTES:

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ALL LEVELS ARE STRUCTURAL UNLESS NOTED OTHERWISE.







FOUL DRAINAGE LAYOUT A1 - 1:50 / A3 - 1:100 29.09.21 Approved By: M.CARR N.PATTERSON T.DALESSANDRO

OFFALY COUNTY COUNCIL

RESIDENTIAL DEVELOPMENT AT DARGAN DRIVE, CHANCERY LANE. TULLAMORE. Co. OFFALY 20KK019 C-010 | PL1

VOLUME A 3.2

Hayes Higgins Partnership Gas House Lane, Kilkenny.

PART 8

Fitzwilliam Square, Dublin 2. (01) 6612321 (01) 6625804 admin@hayeshiggin

A CONTINUOUS STAINLESS STEEL WIRE/STRIP SHALL BE PLACE WITH THE WARNING TAPE. SPEC REQUIREMENT MINIMUM WIDTH OF TRENCH 450mm SERVICES ARE LOCATED IN EXISTING CARRIAGEWAY DRAWING LEGEND: F1.0 PROPOSED 225¢ FOUL DRAINAGE & ACCESS CHAMBER DENOTES PROPOSED INSPECTION CHAMBER AS PER IRISH WATER DETAILS PROPOSED 100¢ HDPE FOUL RISING MAIN \_\_\_\_\_ EXISTING FOUL DRAINAGE MAINTAINED ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH 'RECOMMENDATIONS FOR SITE

NEW FOUL PUMP STATION TO INCLUDE 24 HOUR STORAGE, KIOSK, WET KIOSK, FLOW METER CHAMBERS & SECURITY GATE AND FENCING TO PERIMETER.

ALL WORKS ARE TO BE CARRIED OUT IN

ACCORDANCE WITH THE FOLLOWING

INFRASTRUCTURE" & "IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD

PRACTICE FOR WASTEWATER

DETAILS"

DOCUMENTS: "IRISH WATER CODE OF

### **GENERAL NOTES:** 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.

ALL LEVELS ARE IN METRES ABOVE DATUM UNLESS OTHERWISE NOTED.

ARCHITECT FOR THEIR REVIEW PRIOR TO PRACTICAL COMPLETION.

- 3. ALL PIPE DIAMETERS ARE NORMAL. 4. THE CONTRACTOR MUST CONTACT THE RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION WORK, & SATISFY HIMSELF IN RESPECT TO THE LOCATION OF ALL
- 5. ALL SEWER & DRAIN PIPES ARE uPVC STIFFNESS CLASS SN8 (8Kn/m2) UNLESS
- OTHERWISE STATED. 6. ALL BEDDING TO SEWERS IS CLASS 'B' UNLESS OTHERWISE NOTED. 7. ALL MANHOLES CAN BE EITHER PRECAST CONCRETE RING MANHOLES OR
- BLOCKWORK UNLESS OTHERWISE STATED. 8. 600mm MAX. LENGTH ROCKER PIPES ARE TO BE PROVIDED ON SEWER WHERE: (A) A PIPE ENTERS A MANHOLE OR PUMPING STATION.
- (B) A PIPE LEAVES A MANHOLE. (C) A PIPE ENTERS CONCRETE ENCASEMENT.
- (D) A PIPE LEAVES CONCRETE ENCASEMENT. (E) ANY OTHER LOCATION AS DIRECTED BY THE ENGINEER.
- 9. ALL SEWER ROCKER PIPES ARE TO BE FORMED BY CUTTING & TRIMMING A LENGTH OF SPIGOT & SOCKET PIPE TO FORM A SPIGOT AT THE CUT END, THEREBY FORMING SPIGOT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER
- 10. WHERE SEWER PIPES OR RISING MAINS CONNECT TO EXISTING MANHOLES, THE CONTRACTOR IS REQUIRED TO: (A) CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK. (B) MAKE GOOD THE EXISTING CHAMBER WALL AT THE PROPOSED POINT OF PENETRATION & ADJUST THE EXISTING BENCHING TO THE SATISFACTION OF
- THE ENGINEER. 11. WHERE SEWER PIPES, RISING MAINS OR ROAD GULLY DRAINS CROSS EXISTING ROADS, THE CONTRACTOR IS REQUIRED TO: (A) CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
- (B) MAKE GOOD THE EXISTING ROAD TO ITS ORIGINAL SPECIFICATION AS APPROVED BY THE ENGINEER. 12. MINIMUM FALLS INDICATED ON DRAINAGE PIPES, LEVELS TO BE REVISED IF
- MANHOLE LOCATIONS ARE MODIFIED BY CONTRACTOR. 13. CONCRETE PROTECTION TO BE PROVIDED AROUND ALL PIPES WHERE COVER TO SOFFIT IS LESS THAN 1.2m.
- 14. ALL BRANCH AND PERIMETER DRAINAGE ARE TO BE DETAILED BY ARCHITECT.

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.



ENGINEERS IRFLAND IRELAND cpd | ACCREDITED COMPANY

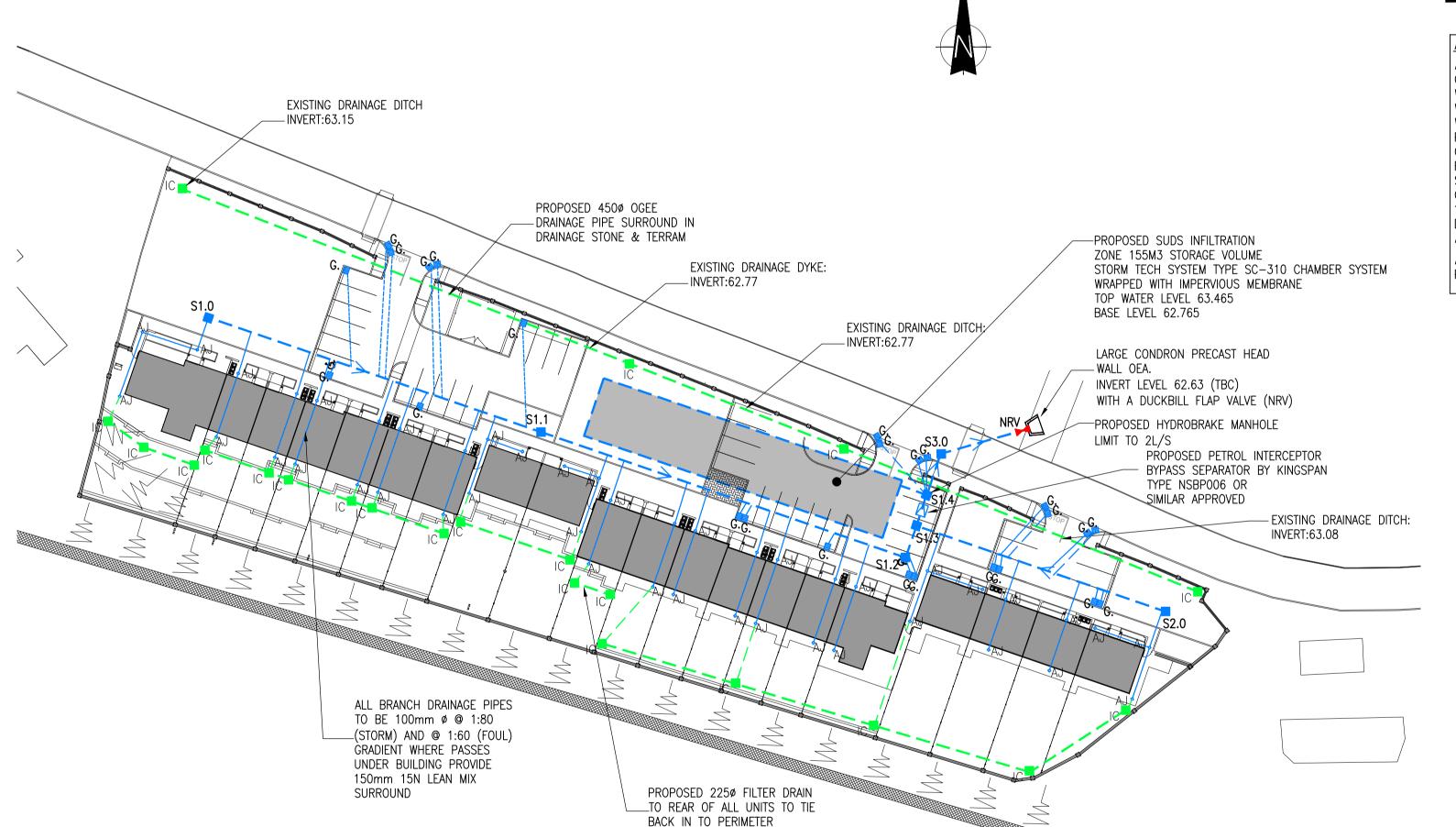
### **GENERAL NOTES:**

EXISTING SERVICES.

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- 3. ALL PIPE DIAMETERS ARE NORMAL. 4. THE CONTRACTOR MUST CONTACT THE RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION WORK, & SATISFY HIMSELF IN RESPECT TO THE LOCATION OF ALL
- 5. ALL SEWER & DRAIN PIPES ARE CLASS 'C' uPVC UNLESS OTHERWISE STATED.
- 6. ALL BEDDING TO SEWERS IS CLASS 'B' UNLESS OTHERWISE NOTED. 7. ALL MANHOLES CAN BE EITHER PRECAST CONCRETE RING MANHOLES OR BLOCKWORK
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- (D) A PIPE LEAVES CONCRETE ENCASEMENT.
- (E) ANY OTHER LOCATION AS DIRECTED BY THE ENGINEER. 9. ALL SEWER ROCKER PIPES ARE TO BE FORMED BY CUTTING & TRIMMING A LENGTH OF SPIGOT & SOCKET PIPE TO FORM A SPIGOT AT THE CUT END, THEREBY FORMING SPIGOT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER PIPE.
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- 13. CONCRETE PROTECTION TO BE PROVIDED AROUND ALL PIPES WHERE COVER TO SOFFIT IS LESS THAN 1.2m.
- 14. ALL BRANCH AND PERIMETER DRAINAGE ARE TO BE DETAILED BY ARCHITECT.

### TESTING OF SEWERS

- (A) FOUL AND SURFACE WATER SEWERS TO BE TESTED EITHER A WATER OF AIR TEST. IF THE AIR TEST IS CARRIED OUT AND THE RESULTS SHOW A FAILURE THEN A WATER TEST SHALL BE SUBSEQUENTLY CARRIED OUT TO DETERMINE ACCEPTANCE OR
- (B) WATER TESTS CARRIED OUT SHALL BE TESTED IN UNDER A HEAD OF WATER IN ACCORDANCE WITH BS 8301 1995, AND CARRIED OUT FOR A MINIMUM OF 30
- (C) THE CONTRACTOR IS TO ENGAGE AN ENGINEER WITH PROFESSIONAL INDEMNITY INSURANCE TO SUPERVISE ALL AIR/WATER TESTS ON MAINS BEFORE BACKFILLING.
- (D) ON COMPLETION OF ALL SEWERS DRAINS AND GULLIES, ALL SEWERS SHALL BE FLUSHED OUT AND LEFT FREE FROM DEFECT AND OBSTRUCTION AND SUBSEQUENTLY A CCTV SURVEY SHALL BE CARRIED OUT BY AN INDEPENDENT CONTRACTOR OF THE AS BUILT DRAINAGE. THE CCTV SURVEY SHALL INCLUDE A REPORT AND DVD AND SHALL BE SUBMITTED TO THE ENGINEER AND ARCHITECT PRIOR TO PRACTICAL
- (E) ON COMPLETION OF ALL SEWERS, DRAINS AND GULLIES AN AS-BUILT SURVEY MUST BE SUBMITTED INCLUDING LOCATION OF MANHOLES RELATIVE TO THE BUILDING OUTLINE, COVER, INVERT LEVELS AND PIPE DIAMETERS. TO THE ENGINEER AND ARCHITECT FOR THEIR REVIEW PRIOR TO PRACTICAL COMPLETION.



DRAINAGE WITH 100¢ PIPE

### **DRAWING LEGEND:**

PROPOSED 225mmø — — — — PROPOSED FILTER DRAIN PROPOSED STORM GULLY PROPOSED ACO DRAIN

(REFER TO NOTE)

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH 'RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS', DEPARTMENT OF THE ENVIRONMENT.

CONCRETE PROTECTION WILL BE PROVIDED OVER PIPES WHERE THE DEPTH OF COVER TO PIPES UNDER ROADS IS LESS THAN 1200MM & 900MM UNDER GRASSED/PAVED AREAS.

ALL PERIMETER DRAINAGE TO ARCHITECTS

DETAILS

LAND DRAINS AT THE BASE OF ALL RETAINING WALLS TO BE CONNECTED TO THE STORM PROPOSED STORM DRAINAGE NETWORK WITH 225MMØ STORM DRAINAGE PIPE AT 1:150

ACO CHANNEL SPEC:

ALL ACO DRAINS OTHER THAN DOORWAYS TO CONSIST OF ACO MULTIDRAIN D400 200MM WIDE, WITH GRATINGS TO ARCHITECTS DETAILS WITH CONSTANT DEPTH DRAINAGE CHANNELS WITH GALVANISED STEEL EDGE RAIL WITH PERFORATED GALVANISED STEEL HEEL GUARD GRATING WITH GULLY ASSEMBLY AND BUCKET FOR 110mm DISCHARGE PIPE TO MAIN SYSTEM. THE SYSTEM IS TO BE FULLY CERTIFIED AND CE MARKED TO BS EN 1433:2002 OR EQUIVALENT. ACO MULTIDRAIN D400 200MM WIDE BY ACO OR EQUIVELANT APPROVED

ALL ACO CHANNELS TO HAVE HEEL GUARD PROTECTION ON THE GRATING.

> ALL GULLIES / ACO DRAINS TO BE CONNECTED TO MAIN DRAINS WITH 150mmø STORM PIPE @ 1:80 GRADIENT.

				US	US	DS	Pipe
	Pip	e Sect	tion	MH CL	MH IL	MH IL	Diameter
				[mod]	[mod]	[mod]	[mm]
oje	S1.0	to	S1.1	64.100	63.265	63.095	300
oje	S1.1	to	S1.2	64.100	63.095	62.905	300
oje	S1.2	to	S1.3	64.150	62.905	62.885	300
*	S1.3	to	S1.4	64.150	62.885	62.785	300
*	S1.4	to	ATT	64.175	62.785	62.765	300
aje	S2.0	to	S1.3	63.950	63.015	62.885	300
*	S1.4	to	S3.0	64.175	62.765	62.715	225
*	S3.0	to	Outfall	64.200	62.715	62.650	225
1	NOTES:	:					
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	uPVC PI	PES A	SSUMED A	S THE DR	AINAGE M	ATERIAL, I	PLEASE

STORM DRAINAGE DESIGN TABLE

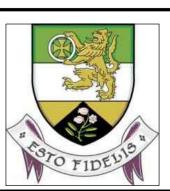
# C HAYES HIGGINS PARTNERSHIP

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Dwg No.	Dwg Title	Rev.	Date	Description	Dwn.	. Chkd.	Appvd
		PL1	01.03.22	PART 8	TD	MC	NP
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. ALL LEVELS ARE STRUCTURAL UNLESS NOTED









Drawing Title: STC	RM DRAIN LAYOUT	AGE			
Date: 29.09.21 Scale: A1 - 1:50 / A3 - 1:100					
Drawn By: <b>T.DALESSANDRO</b>	Checked By: M.CARR	Approved By: N.PATTERSON			

ving Title:		
STC	RM DRAIN LAYOUT	AGE
29.09.21	Scale: A1 - 1:50 /	′ A3 – 1:100
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Client: OFFALY (	COUNTY COUNCIL		
Job Description:  RESIDENTIAL DEVELOPMENT AT DARGAN DR  CHANCERY LANE, TULLAMORE, Co. OFFA			
Project No: 20KK019	Drawing Ref:	Rev	

VOLUME A 3.2	PART 8
OFFALY COUNTY COUNCIL	Hayes Hi
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