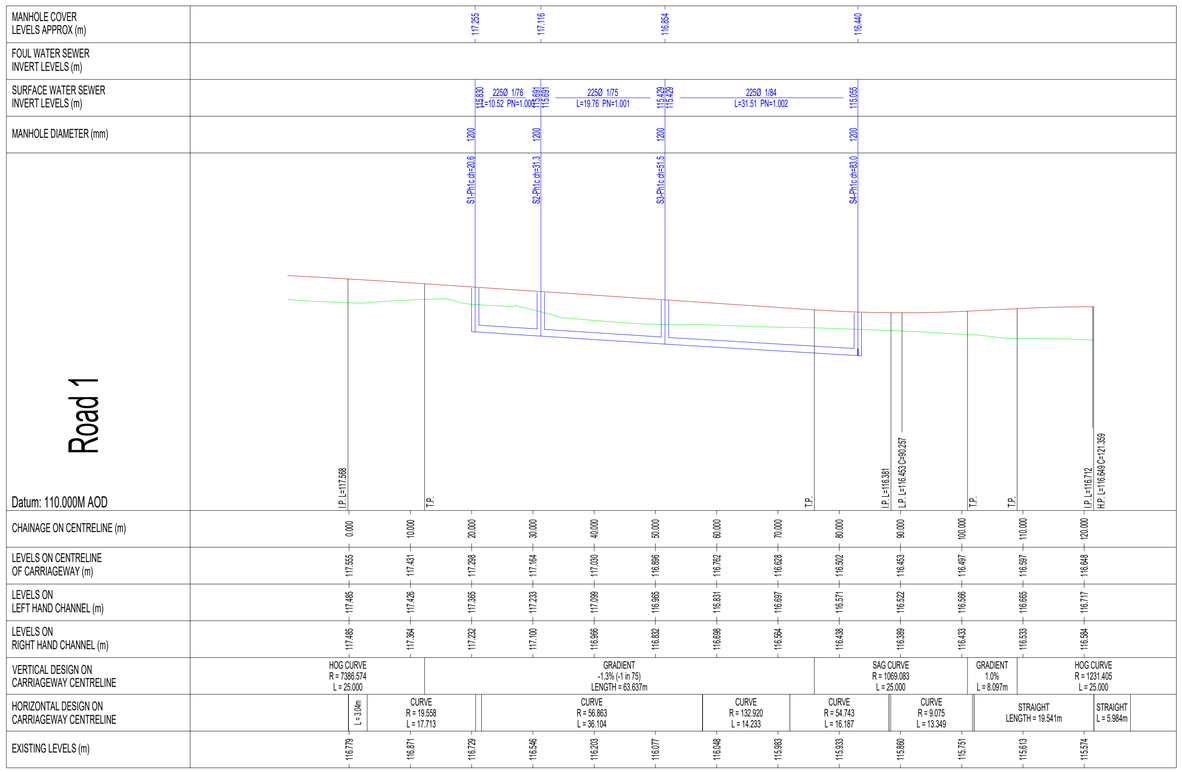

THIS DRAWING IS COPYRIGHT OF THE ENGINEERING STUDIO

DO NOT SCALE FROM THIS DRAWING. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE.

THE CONTRACTORS MUST REFER TO THE EXISTING SERVICES INFORMATION, DESIGNER'S RISK ASSESSMENT AND RESIDUAL RISKS IN THE CONTRACT DOCUMENTATION.

THIS SYMBOL IS USED TO HIGHLIGHT INSTANCES OF RISK WITHIN THE CONSTRUCTION PROCESS.

THE INFORMATION SHOWN ON THIS DRAWING HAS BEEN BASED UPON THE SITE LAYOUT:
N/A
RECEIVED ON:
N/A

LEGEND:

- PROPOSED ADOPTABLE S38 SURFACE DRAINAGE
- EXISTING GROUND LEVELS
- PROPOSED GROUND LEVELS
- APPROXIMATE 1:100 FLOOD LEVEL WITH 500mm FREEBOARD (TO BE USED FOR PLOTS - Refer to Approved FRA))
- APPROXIMATE 1:1000 FLOOD LEVEL (TO BE USED FOR ACCESS ROADS - Refer to Approved FRA)

GENERAL NOTES:

1. The planning, design and construction of sewers shall be in accordance with Sewers for Adoption 7th Edition, a design and construction guide for developers, the Civil Engineering Specification for the Water Industry 7th Edition.
2. All Adoptable sewers within adoptable highway with less than 1.2m cover to have reinforced concrete slab protection. All Adoptable sewers within grassed areas with cover less than 0.9m to have reinforced concrete slab protection. All areas with greater cover than the minimum required to have type S bed and surround.
3. MH covers & frames shall be ductile iron with a minimum square opening of 600x600mm. Covers shall be double triangle for 600mm square openings and be provided with loose bolted connections. Frame depths shall be 150mm but in any case all frames shall comply with SFA7 clause 5.2.32 & Table 5.7 (page 124). 3. 4. Sealed and lockable covers to be supplied where specified on manhole schedule.
5. Use of this drawing does not absolve the client from his responsibilities under the Health and Safety: The Construction Design and Management Regulations 2015. The Principal Designer is required to contact the engineering studio prior to permitting this drawing to be used in connection with any construction works.
6. All private drainage to comply with current Building Regulations, BS EN-752 Drain and Sewer systems outside Buildings and other relevant British Standards and Codes of Practices.
7. The minimum size of sewer where guide bars, safety chains, or other safety devices are required in Manholes shall be 600mm diameter.
8. All sewers to be laid soffit to soffit unless otherwise shown.
9. Prior to laying any material the subgrade must be inspected and any soft spots removed and filled with Type 1 material to SHW Clause 803
10. It is the Contractors responsibility to locate existing services on site accurately.
11. The Contractor should comply with hs(g) 47 "Avoiding Danger from Underground Services" when excavating around existing services.
12. The Contractor is to verify the line, level and diameter of existing sewers before commencing drainage works.
13. All in-situ concrete and precast concrete components to be manufactured using Sulphate Resisting Portland Cement, (SRPC) to BS 4027, if required, subject to soil conditions.
14. All manholes should have a concrete surround. Concrete rings shall be sealed using "Tokstrip" and lifting eyes pointed with resin modified mortar.
15. Clay pipes to be vitrified clay to BS en 295-1:1991
16. Crushing strength of clay pipes to be as follows:

Ø	crushing strength
150	40
225	45

17. Manhole components to be to BS en 1917:2002
18. All levels are to OS datum.
19. Compliance with Health & Safety matters on any trench/manhole is obligatory and a permit to enter a confined space is required when connecting site drainage to the existing public sewerage system. A permit to enter a confined space will be obtained from Wiltshire County Council prior to the works commencing on any public sewerage system.
20. The use of ladders or steps in manholes, wet wells and valve chambers shall comply with the following: Steel plastic encapsulated MH single steps shall not be used in MHs of a greater depth then 1.0m. Steel plastic encapsulated double steps shall be provided in MHs up to 3.0m in depth. Ladders shall be provided in accordance with BS 4211 in MHs between 3.0 & 6.0m deep. MHs greater than 6.0m deep shall be specially designed and have intermediate landings. Access holes in intermediate landings shall be provided with galvanised mild stell gratings to prevent persons falling through. The design of deep MHs shall permit the use of a winch or lifting gear mounted at ground level in case of emergencies.
21. Only low carbon steel or stainless steel ladders for vertical fixing to MHs will be acceptable.
22. Proposed adoptable sewers are only permitted to have other sewer/gully connections and other services laid at an angle of between 45° and 90° across the line with a vertical clearance in excess of 300mm.
23. Where the proposed site drainage connects to the public sewerage system either by new junction, new manhole or at an existing manhole, it will require the submission of an application for sewer connection form to Wiltshire County Council prior to works commencing.
24. Where sewers are to be constructed inside the restricted tree root zone a suitable tree root protection barrier is to be installed to Wiltshire County Council's specification.
25. All Highways works for adoption to be in accordance with Wiltshire County Council requirements

REV	DESCRIPTION	BY	APP	DATE
P01	FIRST ISSUE	MA	FA	20/04/23

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PROJECT:
GROVELANDS WAY
WARMINSTER

DRAWING:
ROADS AND DRAINAGE LONG SECTIONS
PHASE 1C

PROJECT NUMBER:	DRAWING NUMBER:	
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