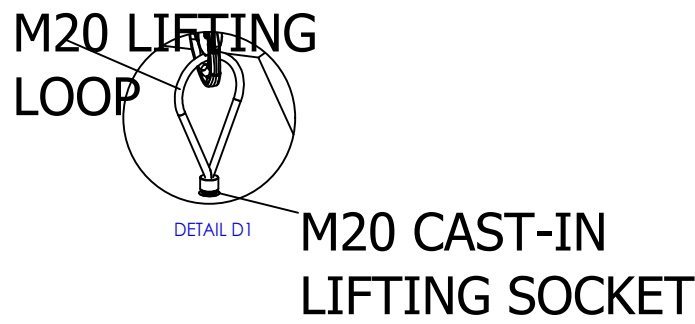
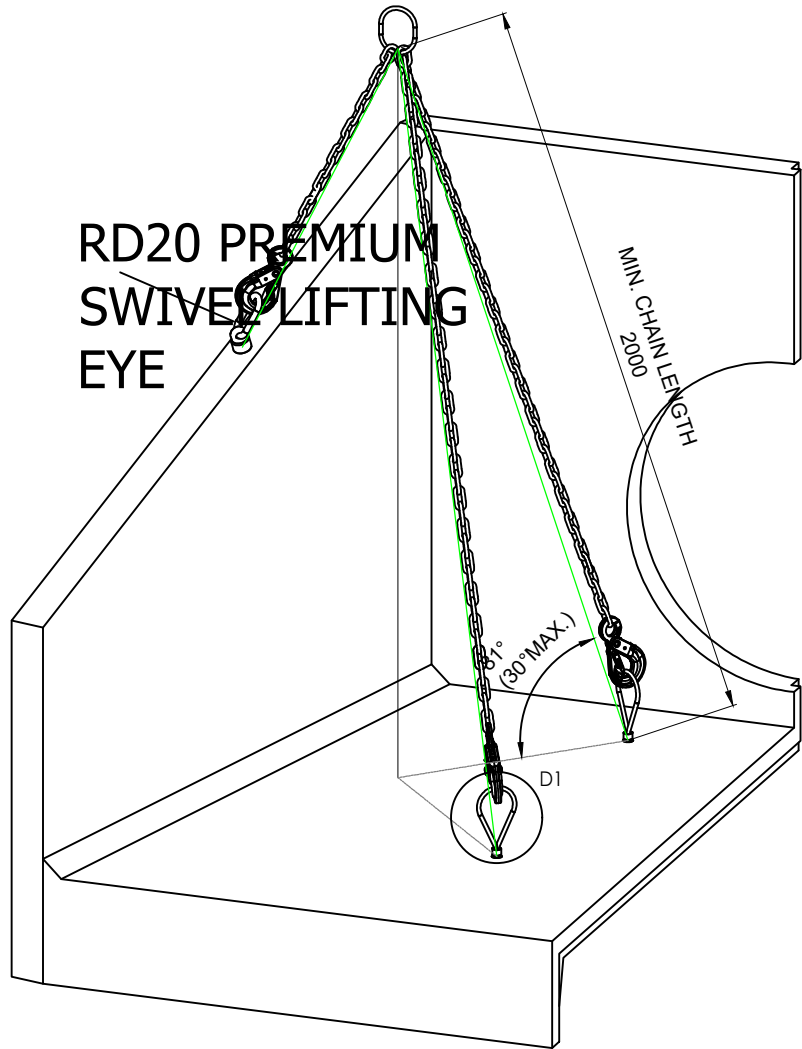
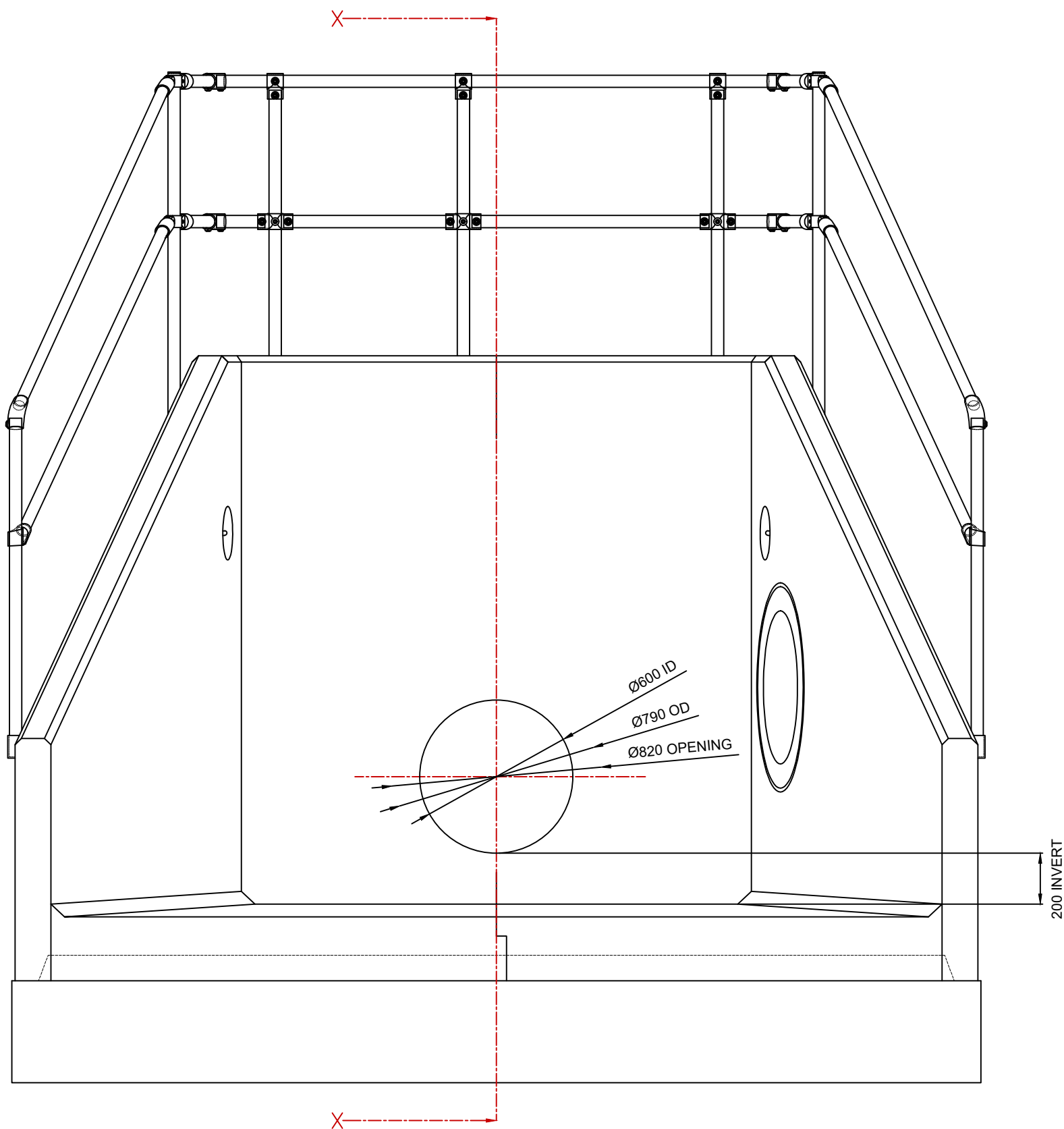
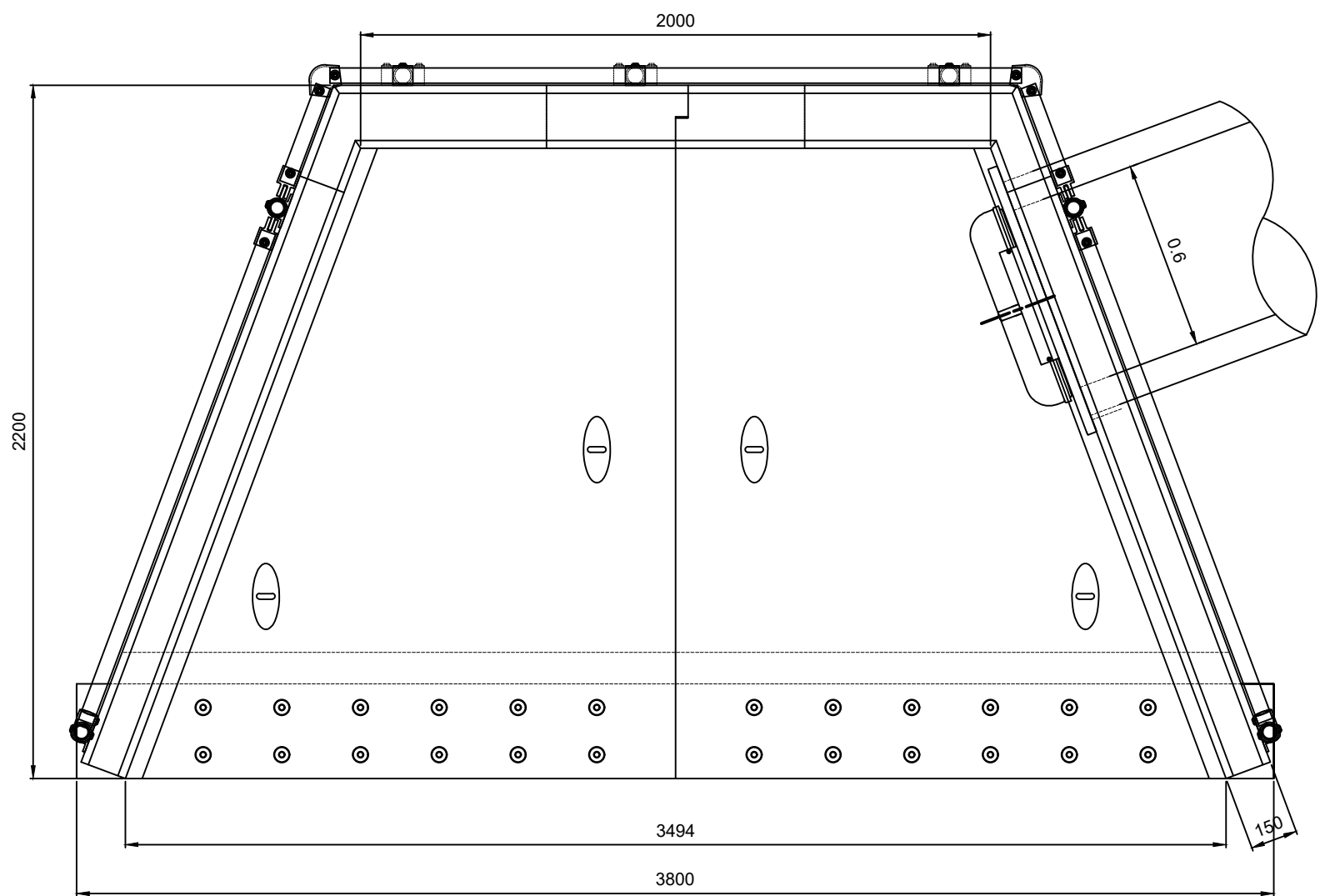




RD20 Threaded Lifting Loop

Safe Working Load: 2000kg each

Manufactured from zinc plated steel wire rope with a precision bright steel threaded portion. Threaded lifting loops are ideally suited to axial lifting procedures but can be used up to and including angled lifts of 30 degrees.

Use and Operation

The threaded lifting loop must be fully threaded into the lifting socket prior to commencing a lifting operation. It is imperative that the two mating surfaces are parallel to each other.

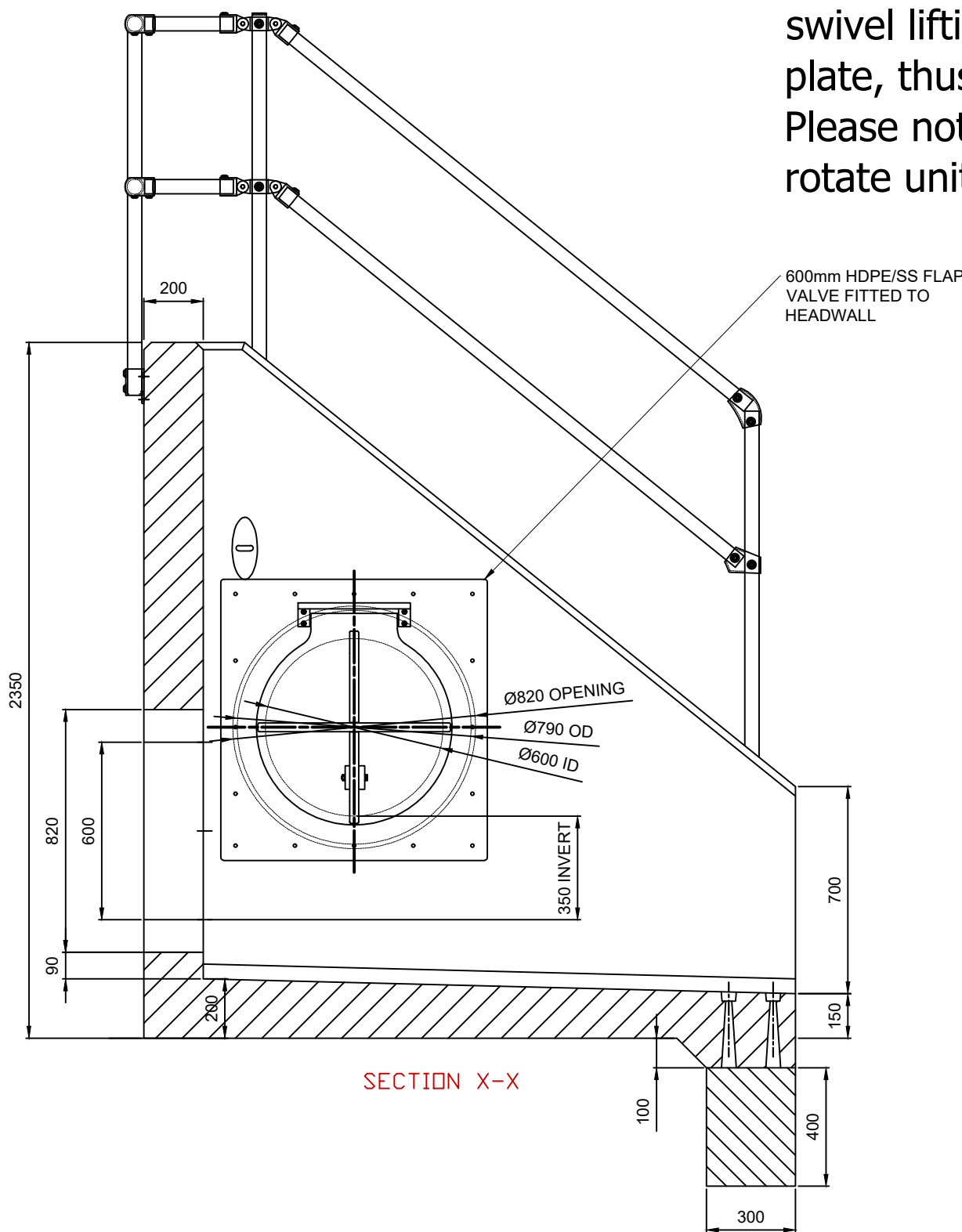
RD20 Premium Swivel Lifting Eye

Safe Working Load: 2000kg each

For high usage Althon recommend premium lifting eyes due to their heavy duty design. Premium lifting eyes are also designed for inclined lifting operations of angles up to 90 degrees.

Use and Operation

The premium swivel lifting eye is screwed into the lifting socket. The threaded portion should be turned in until the large base plate makes full and tight contact with the concrete surface. This ensures that no bending of the threaded section occurs during the lifting process. It is imperative that the two mating surfaces are parallel to each other. Once engaged fully the swivel lifting eye can turn in any direction against the base plate, thus ensuring the correct direction of inclined lifting force. Please note that swivel lifting eye should not be utilised to rotate units about the socket axis.



HW08 DETAIL

Construction Design and Management (CDM)
Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liaising with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

1) Overhead and underground services

2) Working adjacent to water courses and flood plain

3) Soft ground conditions

4) Working adjacent to live highways

5) Unchartered services

- GENERAL NOTES:**
- Do not scale from this drawing.
 - All dimensions are in metres unless otherwise stated.
 - Brookbanks Consulting Ltd has prepared this drawing for the sole use of the client. The drawing may not be relied upon by any other party without the express agreement of the client and Brookbanks Consulting Ltd. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Brookbanks Consulting Ltd for inaccuracies in the data supplied by any other party. The drawing has been produced based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.
 - No part of this drawing may be copied or duplicated without the express permission of Brookbanks Consulting Ltd.
 - All Brookbanks Consulting drawings should be read in conjunction with other relevant Brookbanks Consulting drawings and any drawings produced by third parties connected with this project.
 - Any existing services shown on this drawing are not necessarily complete, nor is their location with regard to the position and depth precise. It is the contractors responsibility to liaise with all relevant services companies to ensure that all services are accurately located and adequately protected during construction. The contractors attention is drawn to the fact that it is highly likely that street lighting cables (or other private supplies) are present, which are not shown on incumbent services drawings.
 - Any discrepancies between the information displayed in this drawings and others to be reported to the engineer before the commencement of works.
 - Any damage caused to existing footways, roads or other third party property to be made good to the county engineers requirements.

ADOPTABLE DRAINAGE NOTES:

- All adoptable drainage to be in accordance with Sewerage Sector Guidance (SSG) Appendix C - Design and Construction Guidance (DCG)
- All Sustainable Urban Drainage (SuDS) to be in accordance with CIRIA report C753 "The SuDS Manual" and supporting documents.
- Contractor to check all existing invert levels and watercourse bed/water levels for outfalls on site ahead of commencing work.
- All lateral connections to be 150mm diameter unless noted otherwise.
- Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have special concrete cover slab protection in accordance with the adopting authority's requirements. Flexibility of pipeline to be maintained.
- Bedding to all remaining pipework is to be class S granular bed and surround.
- Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300mm diameter shall be precast concrete or plastic, excluding those crossing beneath watercourses. All pipes to be in accordance with the adopting authority's approved manufacturers. All pipes to be to BS EN 1295 with either sleeved of spigot & socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

150Ø - 22kN/m ²	375Ø - 45kN/m ²	750Ø - 90kN/m ²
225Ø - 28kN/m ²	450Ø - 54kN/m ²	825Ø - 99kN/m ²
300Ø - 36kN/m ²	600Ø - 72kN/m ²	

C Construction issue	MA	DC	RM	18.01.23
B Headwall amended	DC	RM	RM	31.10.22
A Headwall amended, safety grille removed	DC	RM	RM	26.08.22
- First Issue	DC	RM	RM	04.07.22



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Headwall Details Sheet 2

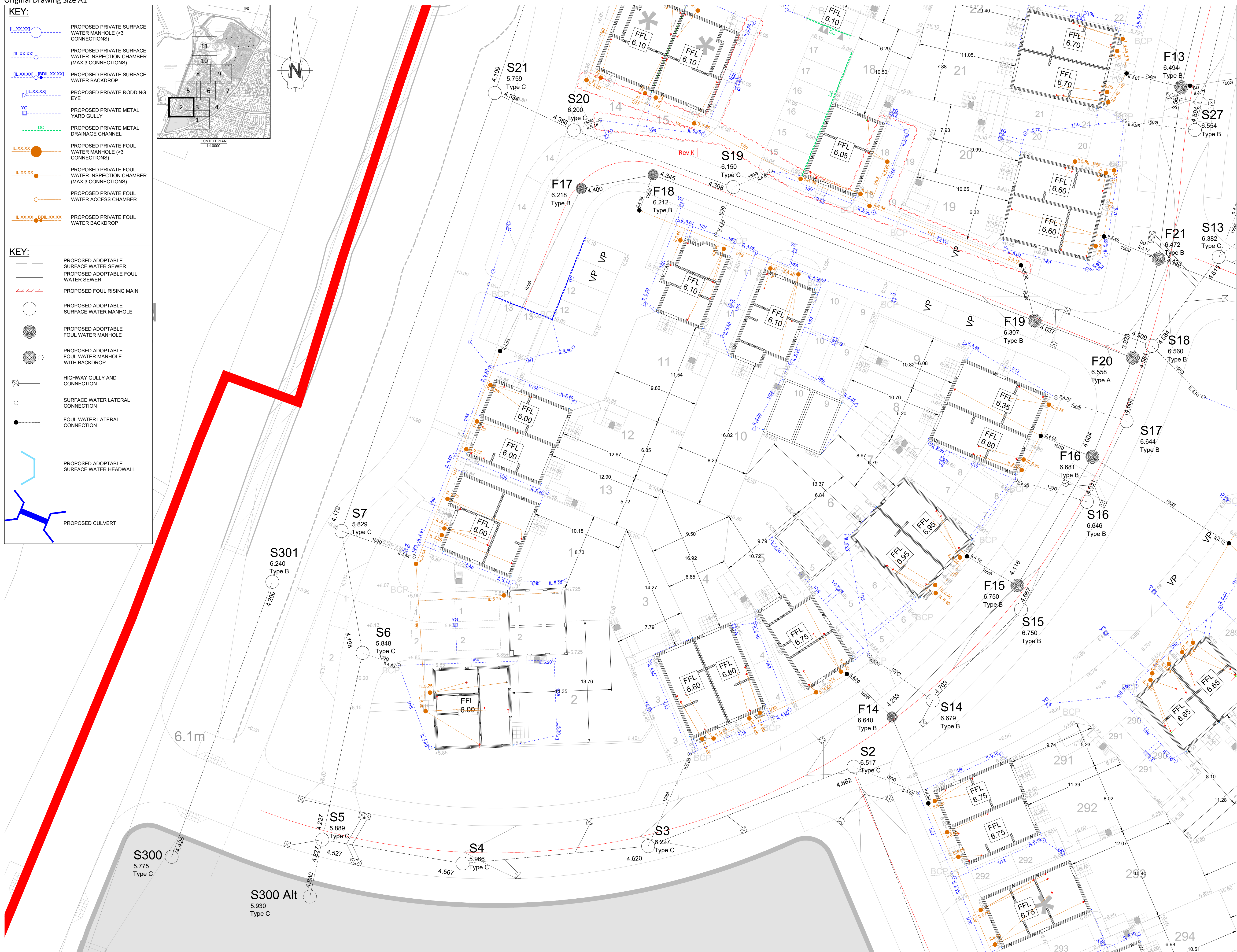
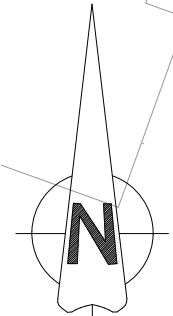
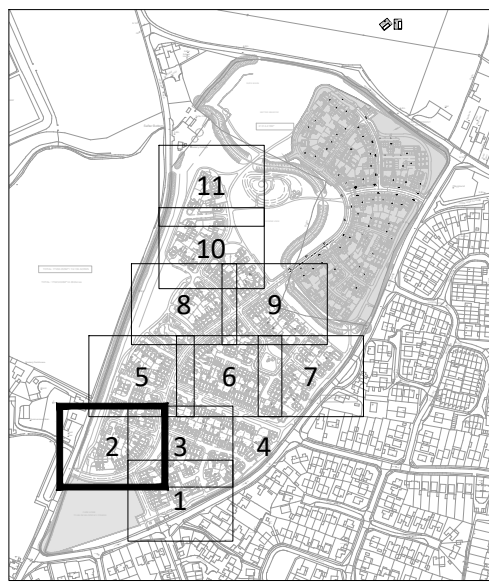
Status	Status Date	
Construction	Jul. 2022	
Drawn	Checked	Date
DC	RM	01.07.2022
Scale	Number	Rev
1:20m	10831-500-516	C
0 - - - - -		
METRES		

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.

- | | |
|--|---|
|  | PROPOSED PRIVATE SURFACE WATER MANHOLE (3 CONNECTIONS) |
|  | PROPOSED PRIVATE SURFACE WATER INSPECTION CHAMBER (MAX 3 CONNECTIONS) |
|  | PROPOSED PRIVATE SURFACE WATER BACKDROP |
|  | PROPOSED PRIVATE RODDING EYE |
|  | PROPOSED PRIVATE METAL YARD GULLY |
|  | PROPOSED PRIVATE METAL DRAINAGE CHANNEL |
|  | PROPOSED PRIVATE FOUL WATER MANHOLE (3 CONNECTIONS) |
|  | PROPOSED PRIVATE FOUL WATER INSPECTION CHAMBER (MAX 3 CONNECTIONS) |
|  | PROPOSED PRIVATE FOUL WATER ACCESS CHAMBER |
|  | PROPOSED PRIVATE FOUL WATER BACKDROP |

KEY:

-
- PROPOSED ADOPTABLE
SURFACE WATER SEWER
- PROPOSED ADOPTABLE FOUL
WATER SEWER
- PROPOSED FOUL RISING MAIN
- PROPOSED ADOPTABLE
SURFACE WATER MANHOLE
- PROPOSED ADOPTABLE
FOUL WATER MANHOLE
- PROPOSED ADOPTABLE
FOUL WATER MANHOLE
WITH BACKDROP
- HIGHWAY GULLY AND
CONNECTION
- SURFACE WATER LATERAL
CONNECTION
- FOUL WATER LATERAL
CONNECTION
- PROPOSED ADOPTABLE
SURFACE WATER HEADWALL
- PROPOSED CULVERT



Construction Design and Management (CDM)

Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liaising with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

- 1) Overhead and underground services
- 2) Working adjacent to water courses and flood plain
- 3) Soft ground conditions
- 4) Working adjacent to live highways
- 5) Unchartered services

NOTES:

1. All levels relate to ordnance datum.
 2. For adoptable roads and sewer details refer to drawings 100 series.
 3. No surface water shall drain from private land onto the highway or vice versa. contractor to allow for all measures to prevent this.
 4. Any discrepancies are to be brought to the attention of the engineer ahead of work commencing.
 5. All surface finishes drives and pathways, and all fencing to be as per landscape and architectural drawings.
 6. If the contractor is unsure of anything shown on the drawings, he is to notify the engineer before starting the works.
- BUILDING DRAINAGE**
7. All connections to adoptable manholes from private building drainage to be 150mm diameter pipes unless otherwise specified.
 8. All house drainage to be 100mm dia unless otherwise stated, and laid in accordance with current Building Regulations and BS8301 : 1985.
 9. Pipe bedding material is to be class B with 150mm minimum thickness surround.
 10. Brickwork is to be with selected kiln free of stones larger than 40mm, lumps of clay over 100mm, timber, frozen material and vegetable matter.
 11. Pipe protection of house drainage runs is required in accordance with the Building Regulations, the contractor shall satisfy themselves and agree with the site management the actual extent of pipe protection required.
 12. Pipes entering and leaving manholes/inspection chambers shall include a rocker pipe, 600mm in length.
 13. Brickwork to chambers shall be class B engineering to BS3921.
 14. Rainwater pipes are to be sited as per architectural layouts.
 15. Downpipes and gutters to be sited as per architectural layout.
 16. The locations of all private driveway runs are illustrative and are to be coordinated on site to best suit: kerb lines, access paths, retaining walls and other features.
 17. The locations of all sheds, dryers and paths are indicative and are to be coordinated with architectural layouts on site. the contractor needs to make an allowance for all private driveway drainage gullies and channels.
- REGRADE**
18. All retaining walls with a height of 600mm or greater are to include 1.2m high post and rail fencing unless located in rear gardens, similar retaining walls in rear gardens are to include 900mm high picket fence.
 19. All flights of steps to primary level access, with more than 2 steps are to be provided with handrailing, except where the steps are 900mm and more apart.
 20. Brick retaining walls are to be used in preference to gravel boards for front garden areas and driveways.
 21. Contractor to allow for street lighting of private drives and mews.
 22. Level entry required to at least one point of access on private tenure and both sides of the road, and on housing association dwellings/life time homes. Contractor to allow for all measures to achieve this.
 23. Boundary walls and boundary fences are to be in accordance with architectural layouts
 24. Kerbs to be used as steps in rear gardens.
 25. All patios to be laid with a 1/80 fall away from the building

L	Layout amended to show new gas governor and a list of identification numbers for each station	MA	DC	RM	11.07.2
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Substation locations, attendance pumping station		DC	DC	RM	RM
K	18 Laterals, Drainage Layout amended	MA	DC	RM	02.02.20
J	Construction Issue	DC	DC	RM	16.11.21
H	Minor amendments	DC	RM	RM	16.11.21
G	Minor amendments	DC	RM	RM	25.07.22
F	Absence note removed	DC	RM	RM	08.07.22
E	Minor amendments to RHPs and SVPs	CL	RM	RM	25.07.22
D	External levels and Drainage amended to lower levels as per client request	CL	RM	RM	21.02.23
C	Laterals text coloured as per adoptable drainage.	DC	RM	RM	20.05.23
B	Key amended. Areas in absence amended. Amended to reflect highway and adoptable drainage changes	DC	RM	RM	13.05.24
A	Amended as per comments received - First Issue	DC	RM	RM	21.01.25
		DC	RM	RM	07.01.25



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Private Drainage
Sheet 2 of 11

Status		Status Date
Construction		June 2022
Drawn	Checked	Date
DC	RM	21.06.2022
Scale	Number	Rev
1:200	10831-500-102	L

0 4 8 12 16 20

METRES

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