

KEY ADOPTABLE DRAINAGE:

- PROPOSED ADOPTABLE SURFACE WATER SEWER
- PROPOSED ADOPTABLE FOU L WATER SEWER
- PROPOSED FOU L RISING MAN
- PROPOSED ADOPTABLE SURFACE WATER MANHOLE
- PROPOSED ADOPTABLE FOU L WATER MANHOLE
- PROPOSED ADOPTABLE FOU L WATER MANHOLE WITH BACKDROP
- PROPOSED FOU L WATER RISING MAN WITHOUT CHAMBER
- PROPOSED FOU L WATER RISING MAN VALVE/BREAK CHAMBER
- PROPOSED ADOPTABLE SURFACE WATER MANHOLE (VISTRY)
- PROPOSED ADOPTABLE FOU L WATER MANHOLE (VISTRY)
- PROPOSED ADOPTABLE SURFACE WATER HEADWALL
- PROPOSED CULVERT
- PROPOSED WATERCOURSE AND FLOW DIRECTION
- PROPOSED FOU L WATER LATERAL AND CHAMBER
- PROPOSED SURFACE WATER LATERAL AND CHAMBER
- ROOT PROTECTION AREA

HIGHWAY NOTES:

- All materials, workmanship and highway construction works to be in accordance with the contract specification, and Specification for Highway Works.
- All planting in visibility splay to be agreed and approved by the engineer and, in all cases, no planting to be above 60mm in height above the carriageway. No obstructions of any kind are permitted within the visibility splay areas.
- All works within existing Public Highway, including any temporary works or traffic management measures, are subject to the approval of West Sussex County Council. When works are required on the Public Highway, the Contractor shall liaise with and obtain all Statutory Approvals from West Sussex County Council, before commencing these works. These approvals include, but are not limited to, approval of traffic management measures, issue of works commencement notices, road opening notices, temporary traffic regulation orders etc.
- All traffic management shall comply with the requirements as set out in Chapter 8 of the Traffic Signs Manual. Warning signs may be erected outside the indicated boundaries. Any obstructions to traffic or pedestrians shall be properly signed and protected with barriers, cones, signs, and lamps.
- Highway inspector to be present during inspections / CBR testing

S301 Proposed new manhole replacing existing gully.

Primary connection option. Care home flow restricted to 1.89l/s

Alternative connection option from care home. Note: This option is only to be utilised after the primary option has been fully explored and if found to be unviable. Flow restricted to 1.89l/s

CARE HOME TO BE DEVELOPED BY OTHERS

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) Uncharted services



GENERAL NOTES:

- Do not scale from this drawing.
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- 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.
 - Culverts designed to be in accordance with CIRIA report C689 'Culvert Design and Operation Guide'.
 - 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 - 35kN/m ²	600Ø - 73kN/m ²	
 - Drainage indicated as (Vistry) to be constructed by Vistry as per the design indicated on this drawing.
- | | | | | | |
|---|--|----|----|----|----------|
| N | Layout amended to show new gas governor and substitution location, amended pumping station. | MA | DC | RM | 11.07.23 |
| M | F18 Lateral removed | MA | DC | RM | 01.06.23 |
| L | Construction details added | MA | DC | RM | 18.01.23 |
| K | Minor amendments to headwalls | DC | RM | RM | 13.12.22 |
| J | Culvert invert levels amended, ditch amended, root protection area shown, alternative care home connection indicated | DC | RM | RM | 18.11.22 |
| H | Manhole type indicated | MA | DC | RM | 26.07.22 |
| G | Cover level amendments | DC | RM | RM | 08.07.22 |
| F | Cover levels amended, Care home drainage route amended | DC | RM | RM | 30.05.22 |
| E | Drainage to be built by Vistry indicated. | DC | RM | RM | 06.05.22 |
| D | Lateral inverts added to Vistry parcels. Culvert headwall details added. | DC | RM | RM | 08.04.22 |
| C | Drainage levels amended, details added, notes updated | DC | DC | RM | 01.04.22 |
| B | Key amended | DC | DC | RM | 07.03.22 |
| A | Amended as per comments received | DC | DC | RM | 21.01.22 |
| | First Issue | CL | B | J | 14.12.21 |

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Bellway
Hook Lane
Pagham

Adoptable Drainage Layout
Sheet 4 of 4

Status		Status Date
Construction		June 2022
Drawn	Checked	Date
CL	JL	14.12.2021
Scale	Number	Rev
1:500	10831-500-504	N
01020304050 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.

HEADWALL SUMMARY						
HEADWALL				PIPE		
BASIN	HEADWALL NO.	MODEL & VARIANT	TYPE	WATERCOURSE	DIAMETER	FEATURES
1A	HW09	SFA20C	INLET	NO	750	CONCRETE VERTICAL GRATING
	HW10	SFA20C	INLET		450	CLAY VERTICAL GRATING
	HW11	SFA20C	OUTLET		750	CONCRETE SLOPED GRATING
1B	HW12	SFA20B	INLET	YES	750	CONCRETE VERTICAL GRATING
	HW13	SFA20B	OUTLET		750	CONCRETE SLOPED GRATING
	HW14	SFA15D	OUTFALL		225	CLAY FLAP VALVE
2	HW15	SFA20B	INLET	YES	600	CONCRETE VERTICAL GRATING
	HW16	SFA20B	OUTLET		600	CONCRETE SLOPED GRATING
	HW08	SFA20B	OUTFALL		225	CLAY FLAP VALVE
3	HW17	SFA20B	INLET	YES	825	CONCRETE VERTICAL GRATING
	HW18	SFA20B	OUTLET		825	CONCRETE SLOPED GRATING
	HW19	SFA15D	OUTFALL		300	CLAY FLAP VALVE

CULVERT HEADWALL TABLE						
HEADWALL				PIPE		
CULVERT	HEADWALL NO.	MODEL & VARIANT	TYPE	DIAMETER	MATERIAL	FEATURES
1	HW01	SFA15C	INLET	600	CONCRETE	
	HW02	SFA15C	OUTLET	600	CONCRETE	
	HW03	SFA15D	INLET	600	CONCRETE	SLOPED GRATING
2	HW04	SFA15D	OUTLET	600	CONCRETE	SLOPED GRATING
	HW05	SFA15C	INLET	600	CONCRETE	
3	HW06	SFA15C	OUTLET	600	CONCRETE	
	HW07	SFA15C	INLET	600	CONCRETE	
4	HW08	SP20K	OUTLET	600	CONCRETE	
			OUTFALL	600	CONCRETE	FLAP VALVE

MODEL DIMENSIONS (mm)					
MODEL	W	X	Y	Z	
SFA15	1500	3300	2200	350	
SFA20	2000	3800	2200	350	

VARIANT DIMENSIONS (mm)	
VARIANT	BACKWALL HEIGHT
A	1300
B	1650
C	2000
D	2350

HEADWALL NOTES:

- "Inlet" and "Outlet" are in respect to the attenuation feature the headwalls feed in to and out of respectively. "Outfall" refers to a headwall for a pipe discharging into a watercourse.
- Headwalls to be installed in accordance with manufacturers specifications
- Headwall naming based on a model and then a variant of the backwall height. Eg SFA15B would use the dimensions for the SFA15 headwall in the Dimensions model table and would have a backwall height for variant B from the Variant table.
- Refer to drawing 10831-500-516 for HW08 due to bespoke design
- Flap valves to be made of ductile iron
- Sloped grating to be installed at 45 degree angle
- No part of the headwalls are to encroach into the profile of the ditch

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Specification Information

- Opening in back wall cast to suit outside diameter of the pipework
- Invert level of pipe can be set to your specification
- There is a 50mm fall from the back wall of the headwall to the front of the slippyway

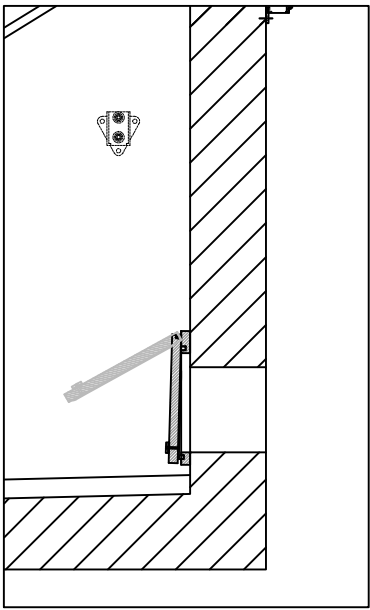
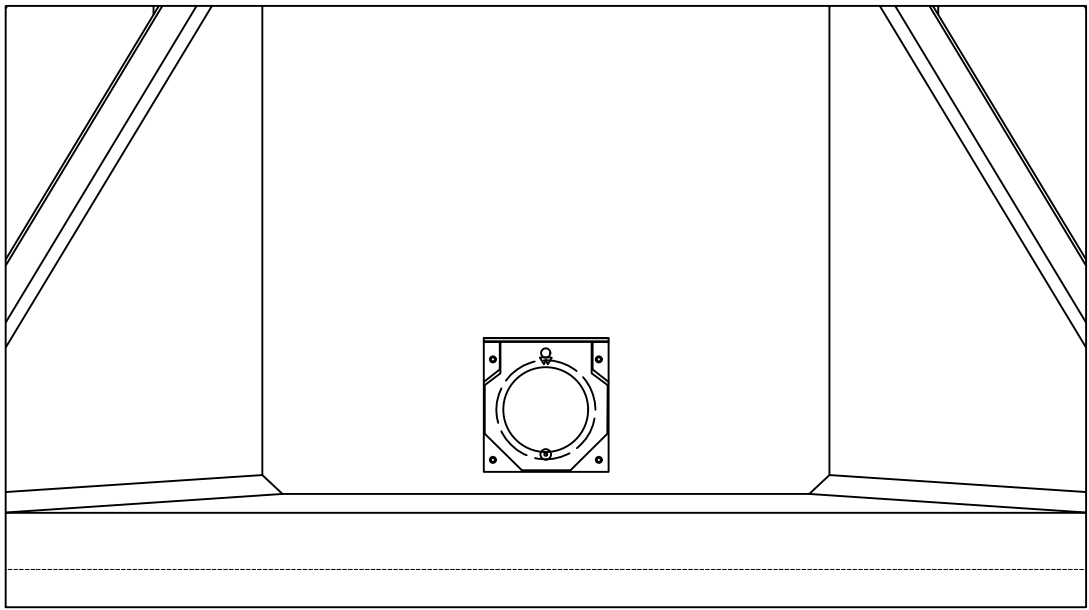
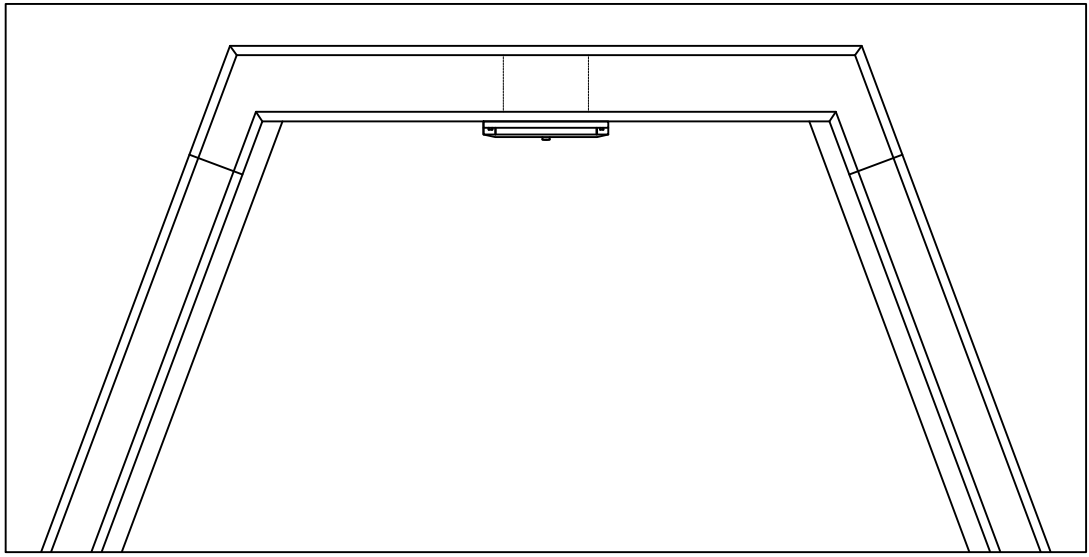
Althon Headwall Installation

Units should be bedded on minimum 100mm of semi-dry concrete. For full detailed installation instructions contact Althon Ltd, 01603 488700
Material: Reinforced concrete

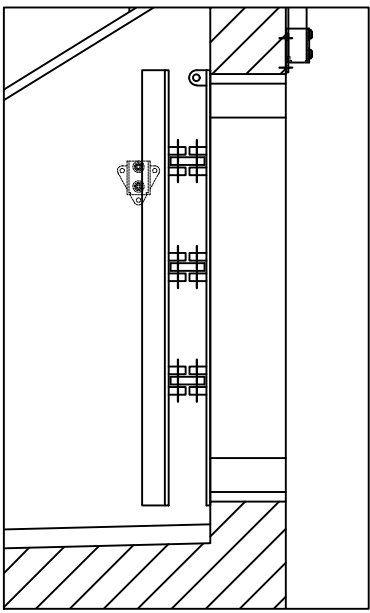
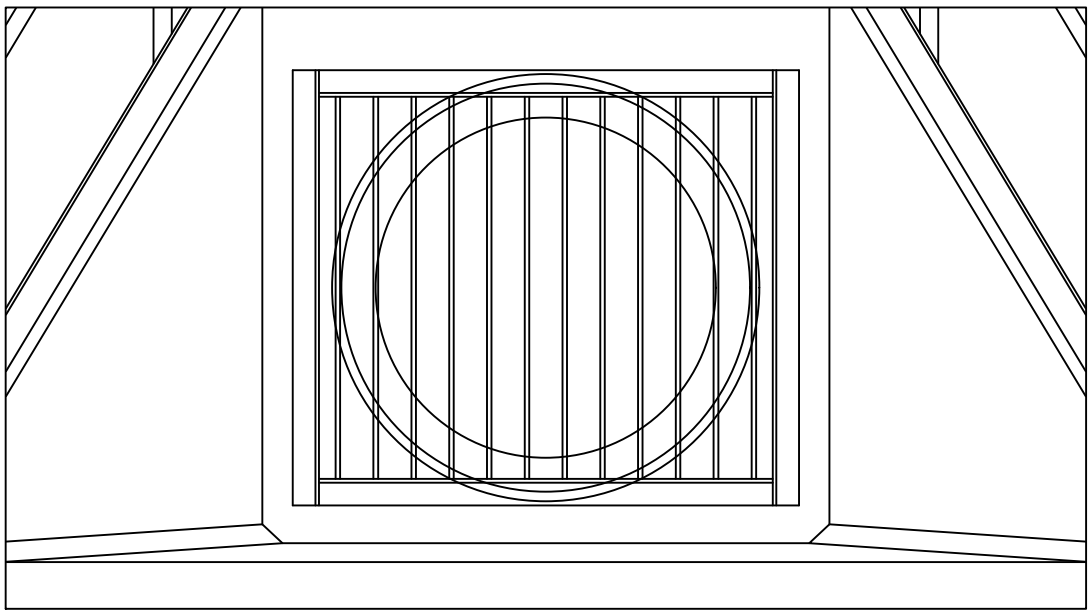
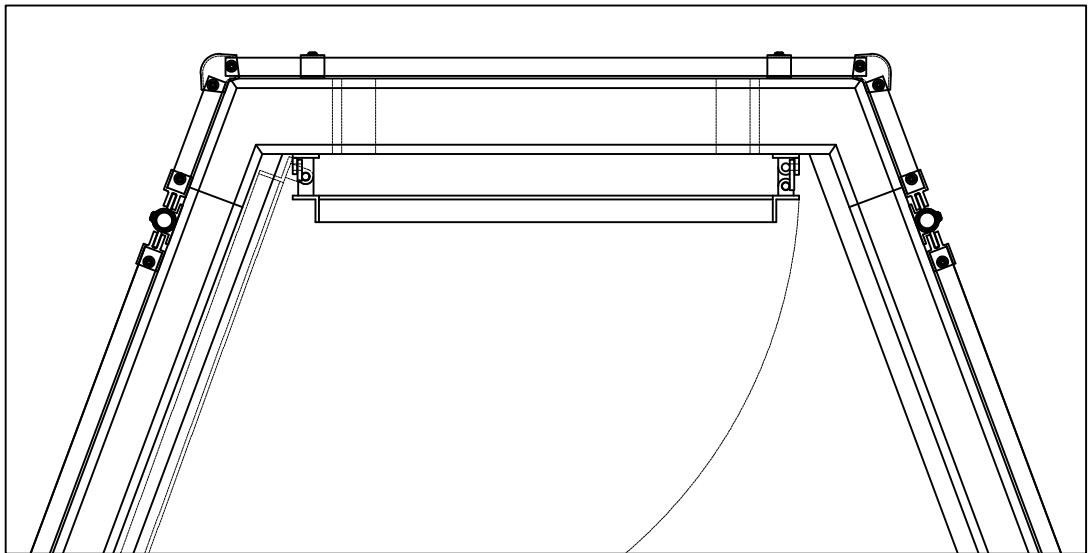
Kee Klamp Specification Information

- Galvanised steel kee klamp handrail
- 1100mm high above back wall
- GRP / FRP hand rails also available

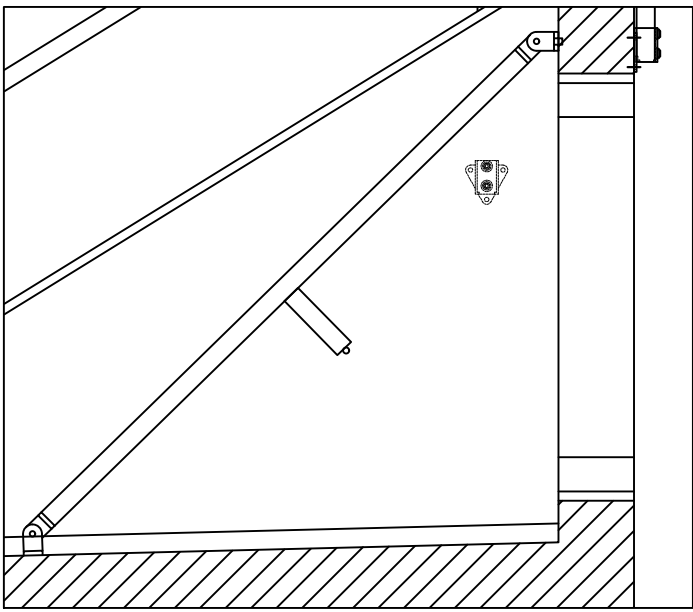
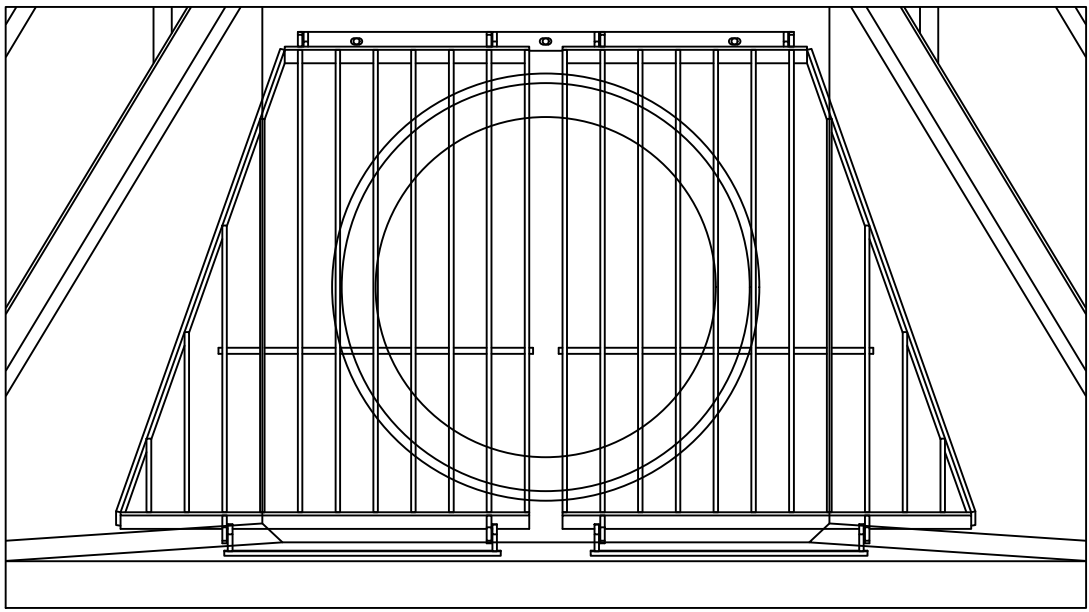
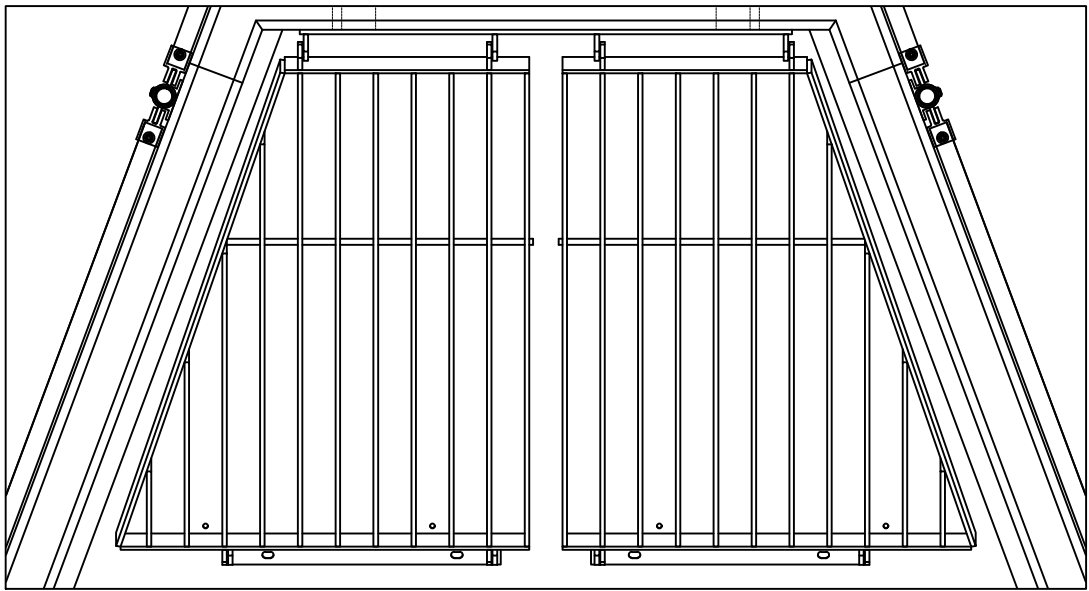
TYPICAL FLAP VALVE
ARRANGEMENT



TYPICAL VERTICAL
GRATING ARRANGEMENT



TYPICAL SLOPED
GRATING ARRANGEMENT



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F Construction issue	MA	DC	RM	18.01.23
E HW19 corrected to 300Ø	BM	DC	RM	16.12.22
D Headwall summary table amended	BM	DC	RM	13.12.22
C Typical safety grille arrangement added, Headwall tables updated	DC	RM	RM	18.11.22
B Additional headwall notes added, headwall features amended, safety grille arrangement removed.	MA	DC	RM	26.08.22
A Headwall levels and pipe sizes amended	DC	RM	RM	04.07.22
- First Issue	DC	RM	RM	08.04.22



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Hook Lane
Pagham

Headwall Details
Sheet 1

Status		Status Date
Construction		Jun. 2022
Drawn	Checked	Date
DC	RM	08.04.2022
Scale	Number	Rev
1:20m	10831-500-515	F
0 0.4 0.8 1.2 1.6 2		
METRES		

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