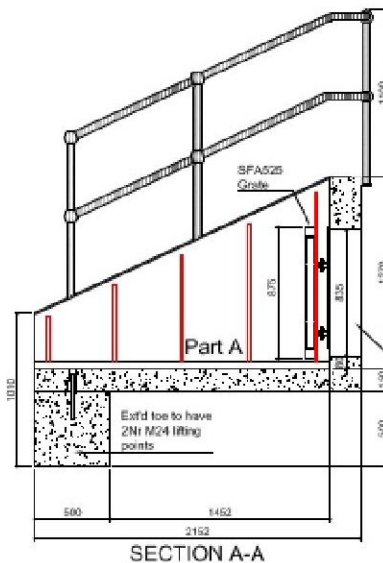
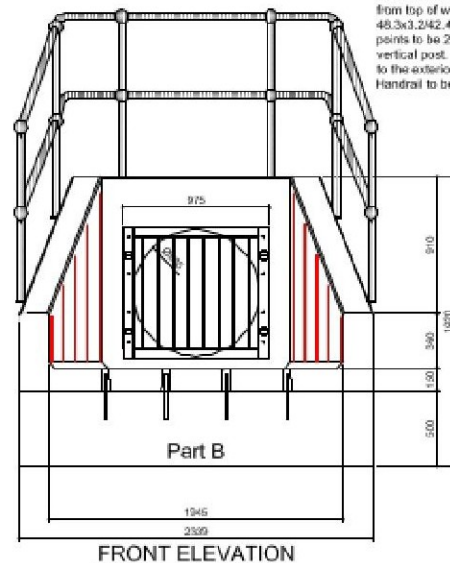


Handrail to be 1100mm o/a height from top of wall. CHS to be 48.3x3.2x42.4x3.2mm. Fixing points to be 2M12x75mm per vertical post. Handrail to be fixed to the exterior side of the headwall. Handrail to be galvanized.



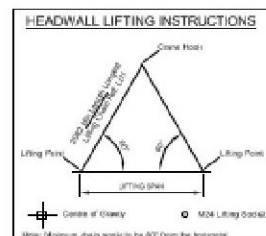
835mm hole size to suit DN600 FP McCann concrete pipe. 835mm hole to be at 80mm invert to allow pipe invert of 197mm

Note: It is the contractors responsibility to ensure that all details are acceptable prior to manufacture. Once the details are agreed, please complete the information below and email this drawing to imcdermott@fpmccann.co.uk. By approving this headwall design for manufacture & receipt of your order: FP McCann reserve the right to invoice for the approved units after a period of 8 weeks from order & manufacture at the order value irrespective of the goods being delivered.

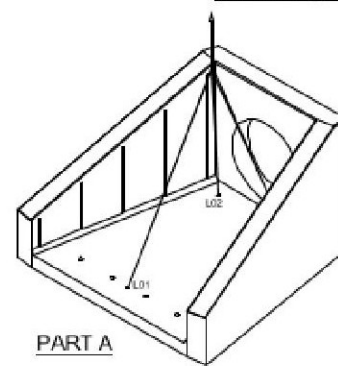
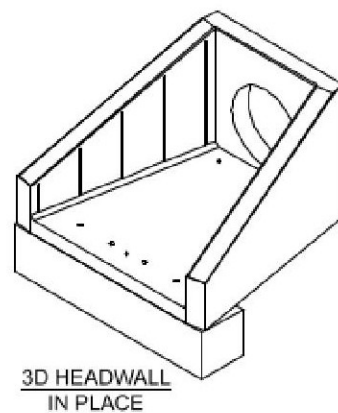
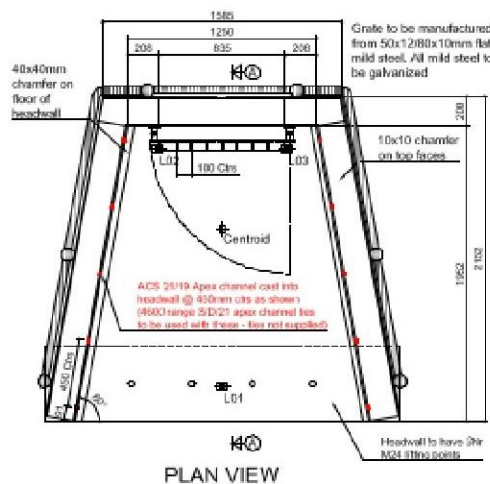
Contractor	
Date Approved	
Accepted (Signature)	

Manufacturer Check List		
	✓	Initials Date
Pre Pour		
Post Pour		
Final Check		

(Drawing to be read in conjunction with HW22-SP0054-PD)



HEADWALL TO BE CAST WITH CHANNELS IN WINGWALLS AS SHOWN



3D LIFTING DIAGRAMS (NTS)

Notes:								
1. & Handling								
a) Unit Volume / Weight								
Part A	1.575	4.000	4.200					
Part B	1.585	1.500	1.500					
Weight is based on 2.4t/m³								
+1% is recommended for sizing lifting equipment								
b) All lifting points shall be used as specified below								
SYSTEM		COUNTY	CPS REFERENCE					
Through Sockets & Lugs		5	CPS L5-24 (2 ST GAL)					
c) M24 Lifting Lugs can be purchased from FP McCann								
d) Unit to be lifted as per lifting diagram								
2. Concrete								
a) Use ref: HW2 Castable Mix								
b) Lifting strength based on 2 cubes = 150kN/m²								
c) Characteristic 28 day cube strength = 50 N/mm²								
d) Concrete provides Design Chemical Class 4 (DCC4) to Special Doped 1, Table P2								
3. Reinforcement								
a) N/A (Fibre Only)								
4. Manufacture								
a) Manufactured to BS EN 12369								
b) Tolerances to BS EN 13369 clause 4.3.1.1								
c) Finish: As below unless indicated otherwise on drawing								
CLASS	TOP	SIDES	BASE					
	A	A	Steel Ribbed					
d) Marking: Units shall be indelibly marked to show:								
• Unit reference								
• Cast date								
• Contract number or name								
• Unit weight								
5. & Seals								
a) Concrete design to EC2								
b) FP McCann have designed the concrete units only, the stability of the support conditions should be checked by the overall scheme designer								
c) Units are designed to withstand a vertical live load surcharge of 10kN/m²								
d) Weight of Soil = 19kN/m³								
e) Angle of internal friction = 30°								
f) Design life: >100 years								
MIN COVER	COVER BLOCK SIZE (mm)	MIN COVER (mm)						
ALL FACES	40	35						
EXPOSURE								
ALL FACES	XCOB	XCB	XFB					
MANUFACTURE TOLERANCES								
Allowable dimensional variations shall not exceed the following								
LENGTH up to 2.5m	VARIATION ± 10mm	CROSS SECTION up to 200mm	VARIATION ± 10mm					
STRAIGHTNESS OR BOW (deviation from intended line) up to 1m			VARIATION ± 10mm					
Larger than 1m			± 8mm/m ± 20mm					
FLATNESS (Max Dev Surface) 1 = 2m			3mm					
6. Additional Information								
a) Max permissible pipe OD is 1040mm / Max DN600 Concrete								
b) Accessories will also arrive as separate components which must be fixed & made good on site by others								
c) For main chain length or additional supplied items please contact FP McCann								
<table border="1"> <tr> <td>Rev</td> <td>28.10.20</td> <td>Original issue</td> <td>By</td> <td>LMD</td> </tr> </table>				Rev	28.10.20	Original issue	By	LMD
Rev	28.10.20	Original issue	By	LMD				
<table border="1"> <tr> <td colspan="2"> </td> <td colspan="2"> FP McCann 8000 Stoddard Drive, 13 Driveway West, Margate, BT46 3DA Tel: +44 (0)1843 794 000 Fax: +44 (0)1843 794 000 www.fpmccann.co.uk </td> </tr> </table>						FP McCann 8000 Stoddard Drive, 13 Driveway West, Margate, BT46 3DA Tel: +44 (0)1843 794 000 Fax: +44 (0)1843 794 000 www.fpmccann.co.uk		
		FP McCann 8000 Stoddard Drive, 13 Driveway West, Margate, BT46 3DA Tel: +44 (0)1843 794 000 Fax: +44 (0)1843 794 000 www.fpmccann.co.uk						
Contract: ANDERSON GROUP ROCHFORD REF: HW4, HW5								
Title: LT1 HEADWALL (200MM WALL) TO SUIT DN600 CONCRETE PIPE WITH HANDRAIL, GRATE, EXTENDED TOE & CAST IN CHANNELS								
Scale: 1:50		Issue: FOR MANUFACTURE						
Date: 28.10.20		OCT 2022						
Drawn: LMD								
Checked:								
Drawing to:		HW22-SP0054-GA						
		Rev: 0						