

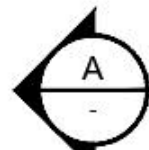
INVITATION TO TENDER NO. PS20220112
CONTRACTOR FOR THE REMEDIATION OF THE SOUTHLANDS TIDE GATES

QUESTIONS AND ANSWERS NO. 5

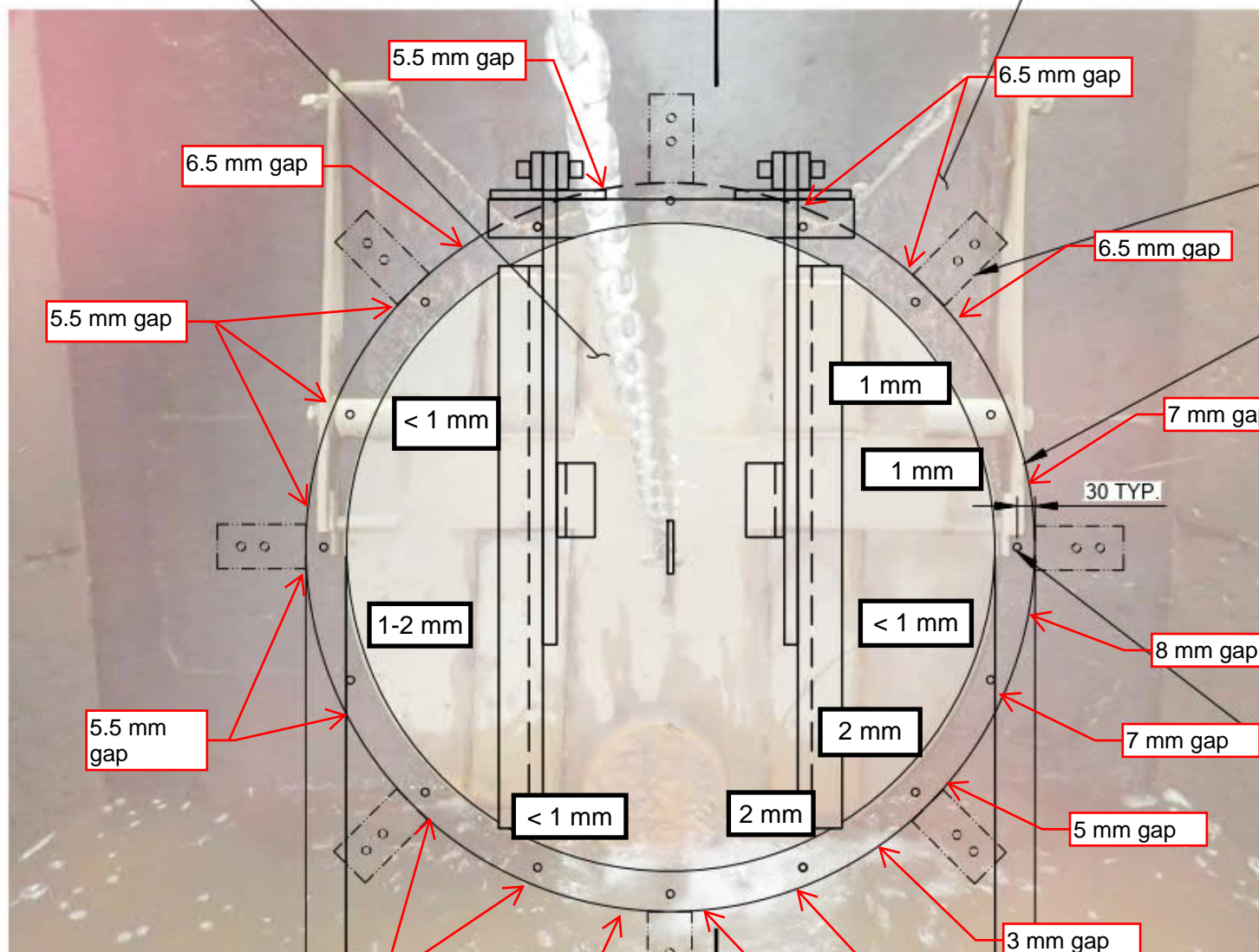
ISSUED ON MARCH 25, 2022

Q1	<p>To confirm the Flap Gate at the Carrington Street Floodbox is owner supplied correct?</p> <p>Also could we obtain shop drawings for this supplied Flap Gate?</p>
A1	<p>Yes, the flapgate at Carrington Street Floodbox is owner-supplied.</p> <p>We do not have shop drawings to provide so we have attached the specification sheet and a photo of the replacement tide gate for reference. The replacement flapgate at Carrington Street floodbox is the Waterman SSF-41 Drainage Flap Gate (flat back).</p> <p>In 2019, City forces welded tabs onto the procured flapgate flange (see photo attached). These are to be removed as per Carrington IFT Drawings (Dwg No. 2921-00-801 and 2921-00-802)</p> <p>There is minor warping of the flapgate creating lifting/gaps at the flange when lain on a flat surface. The gap for 70% of the flange is less than 6mm and around 30% has a gap between 6.5-8mm.</p>

REMOVE EXISTING FLAP GATE



EXISTING FRAME TO REMAIN.
PREPARE SURFACE FOR FLUSH
ALL-MOUNTING.



REMOVE WELL
FLAP GATE

NEW WALL-MOUNTED
SSF-41 DRAINAGE
FLAP GATE - SP

7 mm gap

30 TYP.

8 mm gap

7 mm gap

CONNECT FLAP GATE
TO ADAPTOR RING
WITH 16 - 12.7 Ø

5 mm gap

3 mm gap

5 mm gap

3 mm gap

EXISTING FLAP GATE - 1100Ø

4 mm gap

5 mm gap

5.5 mm gap

1-2 mm

< 1 mm

1 mm

1 mm

< 1 mm

2 mm

2 mm

< 1 mm

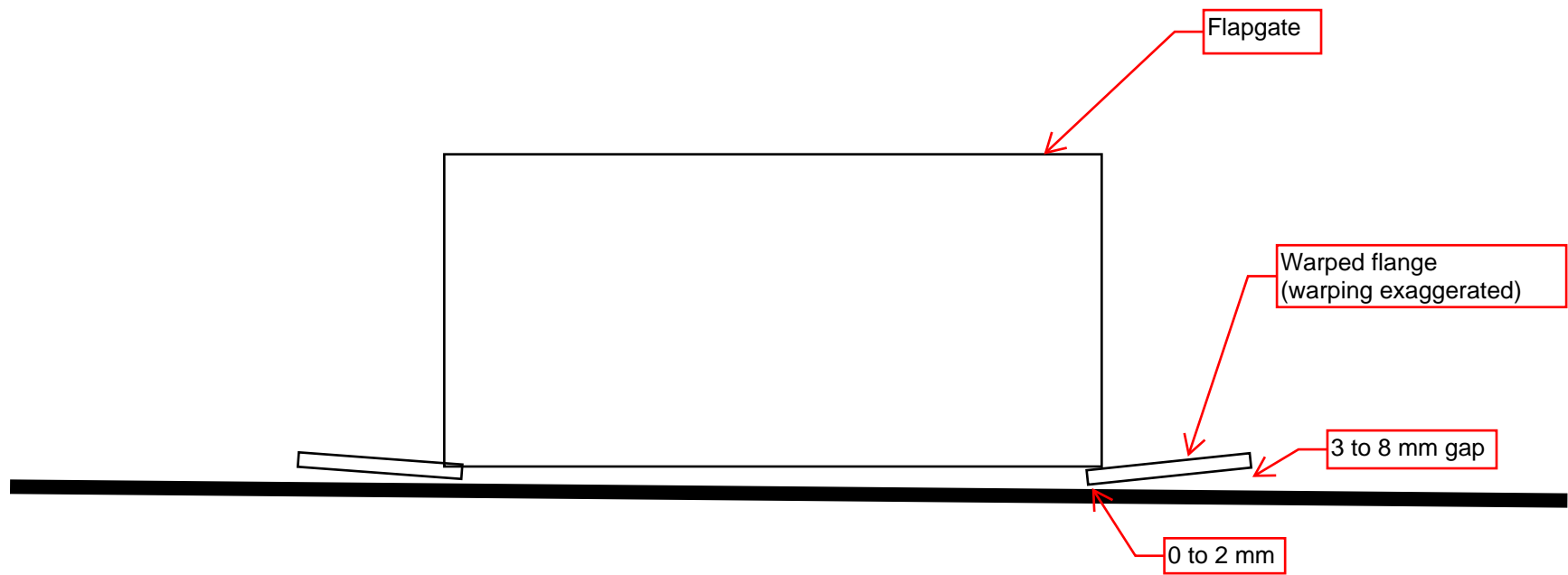
5.5 mm gap

6.5 mm gap

5.5 mm gap

6.5 mm gap

6.5 mm gap



SSF-41 ROUND DRAINAGE FLAP GATES

FABRICATED STAINLESS STEEL

KEY FEATURES

- Spigot back, flatback or flangeback
- Sizes 8" - 84" (Custom spigot sizes available)
- Seating heads to 30 feet
- A corrosion-resistant rust-proof automatic drainage gate designed for flange mounting or wall mounting
- J-Bulb neoprene adjustable seats provide excellent sealing against return flow
- Frame, cover, retainer ring, hinge arm, and pivot lug are of stainless steel. Gate hardware is stainless steel.
- Flatback for mounting to headwall.
- Flangeback to mate with 25# or 125# pipe flange.



SSF-41 Spigotback



SSF-41 Flangeback

SPECIFICATIONS

GENERAL

The flap gate shall be designed to allow free outflow and prevent backflow for maximum seating heads of 30 feet (see size chart below). Gates shall be Waterman Model SSF-41 or equal.

CONSTRUCTION

The frame shall be stainless steel of flatback, spigotback or flangeback design (or other specified design configuration as required) with seating surface inclined from vertical at a minimum of $2\frac{1}{2}^\circ$ to assure positive closure. The stainless steel cover shall be attached to the frame in such a manner as to allow proper seating and full opening of cover. Built in stops shall be provided to prevent the cover from rotating sufficiently to become wedged in the open position. A resilient neoprene seal shall be attached to the inside of the frame opening and shall act as a seat for the cover to seal against. The seal shall be retained by a stainless steel ring bolted or welded to the frame. The linkage system shall be of the double pivoted type, attached to fixed pivot points on cover and frame. Hinge links shall be of structural stainless steel shapes. The heavily reinforced hinge arm of the Model SSF-41 is fastened to the pivot lug by means of heavy stainless steel hinge pins inserted through a durable non-metallic bushing. The hinge pin is arranged in a double shear configuration at extremely close tolerances thus severely limiting lateral movement. This, in conjunction with the protruding rubber seat (in lieu of a recessed seat) insures positive seating at all times regardless of the angle of tidal action.

FINISH

Mill finish on all surfaces.

MATERIALS

Frame and Cover and Hinge Link - Stainless Steel - ASTM A-276, Type 304 or 316 as specified. Assembly Hardware - Stainless Steel Type 18-8.

RECOMMENDED MAXIMUM SEATING HEADS:

8" to 30" size: 30 feet of head
36" to 42" size: 20 feet of head
48" to 60" size: 15 feet of head
66" to 84" size: 10 feet of head

Custom models with higher head ratings available, consult factory.



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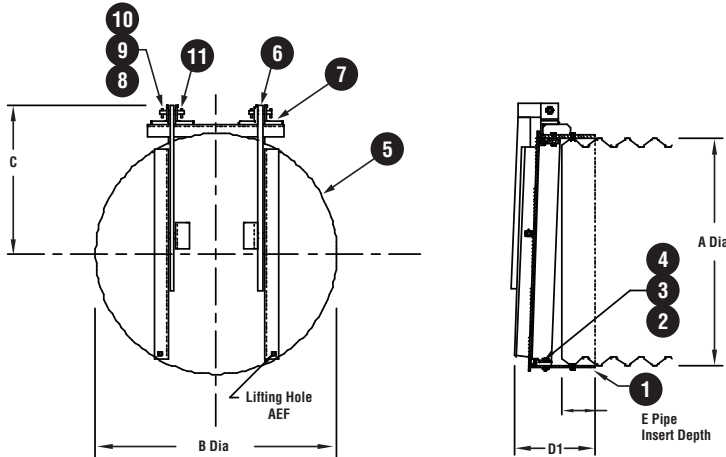
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SSF-41 ROUND DRAINAGE FLAP GATES

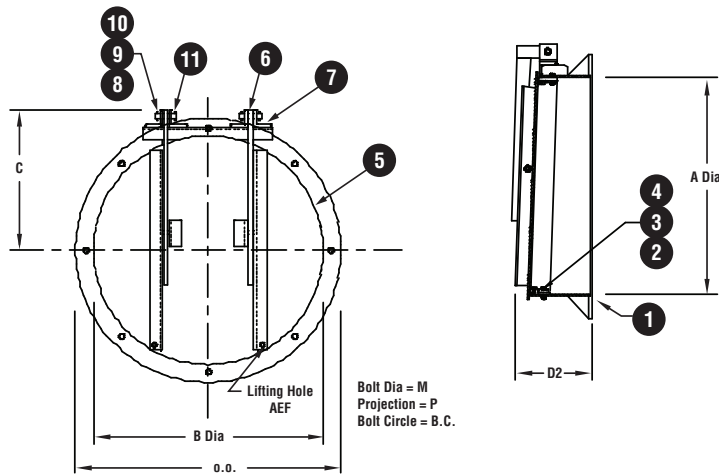
FABRICATED STAINLESS STEEL

SSF-41 STAINLESS STEEL DRAINAGE (FLAP) GATE - SPIGOTBACK RADIAL ARMS



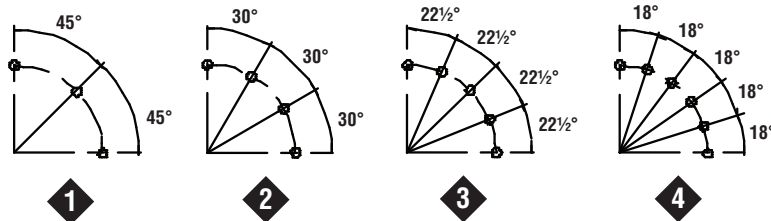
PARTS LIST	
Number	Name
1	Frame
2	Seat
3	Retainer Ring
4	Hex Hd. Bolt / Nut
5	Cover
6	Hinge Arm
7	Pivot Lug
8	Hex Hd. Bolt / Nut
9	Hinge Pin
10	Bushing
11	Washer
12	Spring Pin

SSF-41 DRAINAGE (FLAP) GATE FLATBACK (FLANGEBACK SIMILAR BUT WITH ASA STANDARD FLANGE DIMENSIONS)



1. Add grout pad thickness to anchor bolt projection.
2. Also available with flange and drilling to attach to a 125# standard pipe flange.
3. If grout pad mounting is used add grout thickness to dimension.

DIMENSIONS IN INCHES									
Gate Size	A	B	C	D2	E	O.D.	B.C.	M	P
8	9 ¹ / ₈	10 ¹ / ₂	8 ¹ / ₄	8 ³ / ₄	4	13 ¹ / ₂	11 ³ / ₄	¹ / ₂	2
10	11 ¹ / ₈	12 ¹ / ₂	9 ¹ / ₄	8 ⁷ / ₈	4	15 ¹ / ₂	13 ³ / ₄	¹ / ₂	2
14	15 ¹ / ₈	16 ¹ / ₂	10 ⁵ / ₁₆	8 ⁷ / ₈	4	19 ¹ / ₂	17 ³ / ₄	¹ / ₂	2
16	17 ¹ / ₄	18	12 ⁵ / ₁₆	8 ⁷ / ₈	4	21 ¹ / ₂	19 ³ / ₄	¹ / ₂	2
20	21 ¹ / ₈	22 ¹ / ₂	14 ¹ / ₄	9	4	26 ¹ / ₂	24 ³ / ₄	¹ / ₂	2
12	13 ¹ / ₈	13 ¹ / ₂	10 ¹ / ₄	8 ⁷ / ₈	4	17 ¹ / ₂	15 ³ / ₄	¹ / ₂	1
15	16 ¹ / ₈	17	12 ¹ / ₄	8 ⁷ / ₈	4	20 ¹ / ₂	18 ³ / ₄	¹ / ₂	1
18	19 ¹ / ₈	20	14 ¹ / ₄	8 ⁷ / ₈	4	23 ¹ / ₂	21 ³ / ₄	¹ / ₂	1
24	25 ¹ / ₈	26 ¹ / ₂	16	8 ⁷ / ₈	4	30 ⁵ / ₈	28 ¹ / ₄	¹ / ₂	1 ¹ / ₂
30	31 ¹ / ₈	32 ¹ / ₂	19	10 ⁵ / ₈	4 ¹ / ₂	36 ⁵ / ₈	34 ¹ / ₄	¹ / ₂	1 ¹ / ₂
36	37 ¹ / ₈	38 ¹ / ₂	24	10 ³ / ₈	4 ¹ / ₂	42 ⁵ / ₈	40 ¹ / ₄	¹ / ₂	1 ¹ / ₂
42	43 ¹ / ₈	46	28	13 ¹ / ₈	5 ¹ / ₂	48 ⁵ / ₈	46 ¹ / ₄	¹ / ₂	1 ¹ / ₂
48	49 ¹ / ₈	52	31	13 ³ / ₄	5 ¹ / ₂	54 ⁵ / ₈	52 ¹ / ₄	¹ / ₂	1 ¹ / ₂
54	55 ¹ / ₈	58	35	13 ³ / ₈	6 ¹ / ₂	60 ⁵ / ₈	58 ¹ / ₄	⁵ / ₈	2
60	61 ¹ / ₈	64	38	15 ³ / ₈	6 ¹ / ₂	66 ⁵ / ₈	64 ¹ / ₄	⁵ / ₈	2
72	73 ¹ / ₈	76	44 ¹ / ₂	17 ¹ / ₄	7 ¹ / ₄	78 ⁵ / ₈	76 ¹ / ₄	⁵ / ₈	2
84	Dimensions on Application								



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