

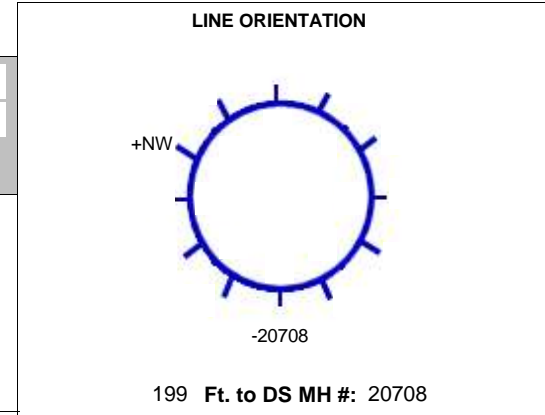
# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20696
Street:	40 Whitehead Avenue	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 30 X 2 X 0.9 = 54 (SQFT)	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2 1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Other Hole(s)</td> <td>-- --</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s)	2 1.5	Lift Hole(s)	-- --	Other Hole(s)	-- --
QTY	SIZE (In)									
Pick Hole(s)	2 1.5									
Lift Hole(s)	-- --									
Other Hole(s)	-- --									
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)									
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>									

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:



Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	NONE	0		
WALLS	BRICK	1		
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	2		Missing mortar



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NW	03' 04"	6	VCP		0	0	0	Service
OUT TO	20708	03' 10"	8	VCP		0	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20702
Street:	39 Edgewater Road	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	

LINE ORIENTATION
249 Ft. to DS MH #: 20715
Cannot open

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> Grade: AT In. Clear Opening Dia.: In. Inside Frame Dia.: 0 In. Frame Height: In. Cover Type:	Drainage Area 1: Pavement X X 0.9 = (SQFT) Drainage Area 2: Soil (if applicable) X X 0.3 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>2</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	2	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	2												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings:

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME		0		
CORBEL		0		
STEPS		0		
WALLS		0		
FLOOR		0		
INVERT		0		

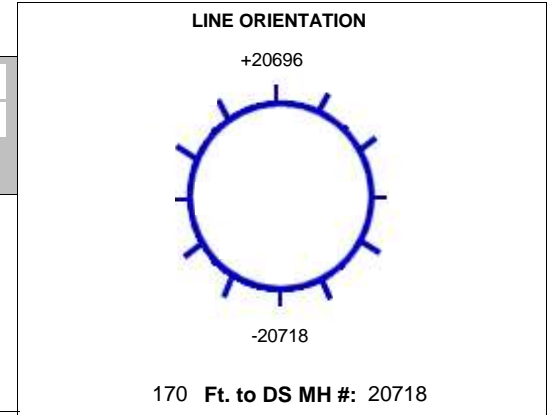
Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

LINE CONDITIONS										Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)		Line Comments

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20708
Street:	34 Whitehead Avenue	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	2	X 2 X 0.9 = 4 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	24 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.	X	X 0.9 = (SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.	Inflow Not likely:	<input checked="" type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	PRECAST	3	0.1	Weeping infiltration
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

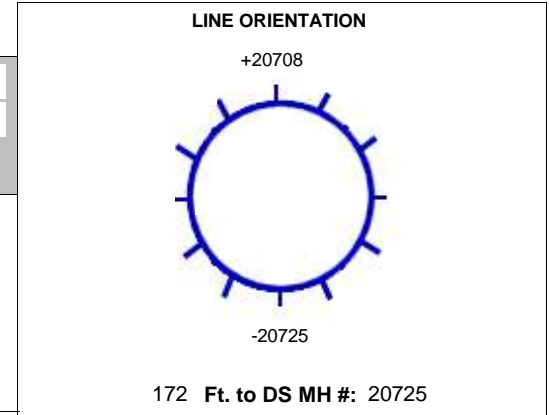
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20696	06' 06"	8	VCP		0.10	0	0	
OUT TO	20718	06' 07"	8	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20718
Street:	27 Whitehead Avenue	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 50 X 2 X 0.9 = 90 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	PARGED	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

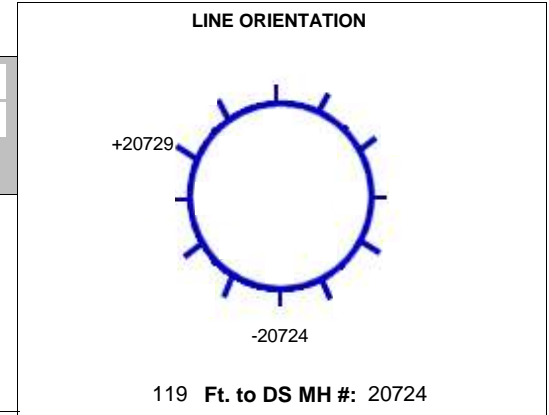
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20708	05' 03"	8	VCP		0.10	0	0	
OUT TO	20725	05' 04"	8	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20723
Street:	93 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 50 X 2 X 0.9 = 90 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

INTERNAL MANHOLE OBSERVATIONS Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

LINE CONDITIONS Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos5-4-2020\DSC

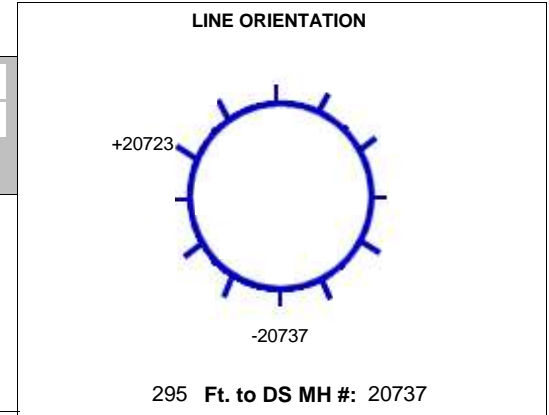
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20729	05' 00"	6	VCP		0.10	0	0	
OUT TO	20724	05' 01"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20724
Street:	99 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 20 X 20 X 0.9 = 360 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input checked="" type="checkbox"/>	



Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

INTERNAL MANHOLE OBSERVATIONS Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Roots
STEPS	BRICK	1		
WALLS	BRICK	2		Roots
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

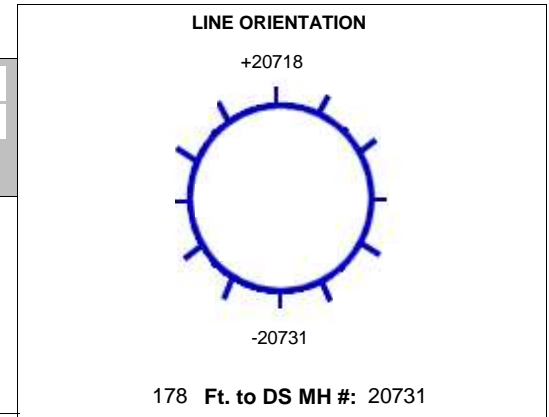
LINE CONDITIONS Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20723	06' 09"	6	VCP		0.25	0	0	
OUT TO	20737	06' 09"	8	VCP		0.25	0.25	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20725
Street:	18 Whitehead Avenue	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 75 X 2 X 0.9 = 135 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>4</td> <td>1</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	4	1	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	4	1												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Vented	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	3	0.1	Missing mortar, Weeping infiltration
STEPS	NONE	0		
WALLS	BRICK	3		Weeping infiltration
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20718	05' 08"	8	VCP		0.10	0	0	
OUT TO	20731	05' 10"	8	VCP		0.10	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20728
Street:	22 Edgewater Road	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	

**LINE ORIENTATION**

+20715

-20746

330 Ft. to DS MH #: 20746

Cracked and missing pavement surrounding frame

COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL		COVER HOLES	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	75 X 2 X 0.9 =	135 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	24 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	ALUM	1		
WALLS	PRECAST	1		
FLOOR	BRICK	1		
INVERT	BRICK	4	0.25	Running infiltration at incoming pipe



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

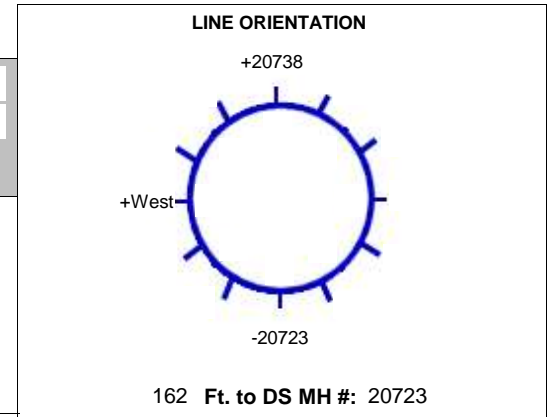
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20715	11' 04"	8	ACP		0.25	0	0	
OUT TO	20746	11' 04"	8	ACP		0.25	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20729
Street:	89 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: BELOW 0.25 In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s) 2</td> <td>1</td> </tr> <tr> <td>Lift Hole(s) --</td> <td>--</td> </tr> <tr> <td>Other Hole(s) --</td> <td>--</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s) 2	1	Lift Hole(s) --	--	Other Hole(s) --	--
QTY	SIZE (In)									
Pick Hole(s) 2	1									
Lift Hole(s) --	--									
Other Hole(s) --	--									

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

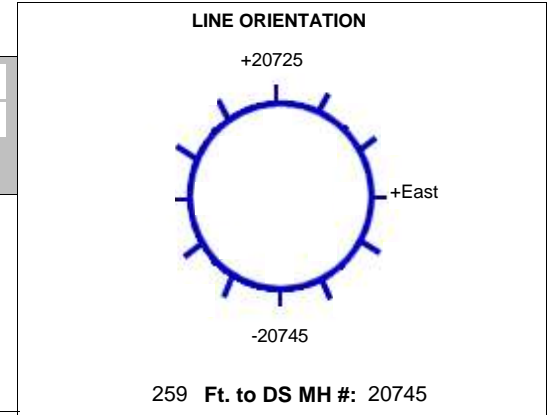
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	West	05' 00"	6	VCP		0.10	0	0	Start of line
IN FROM	20738	05' 01"	6	VCP		0.10	0.00	0	
OUT TO	20723	05' 02"	6	VCP		0.25	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20731
Street:	14 Whitehead Avenue	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	150 X 2 X 0.9 =	270 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	24 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	4	0.25	Running infiltration
INVERT	PARGED	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

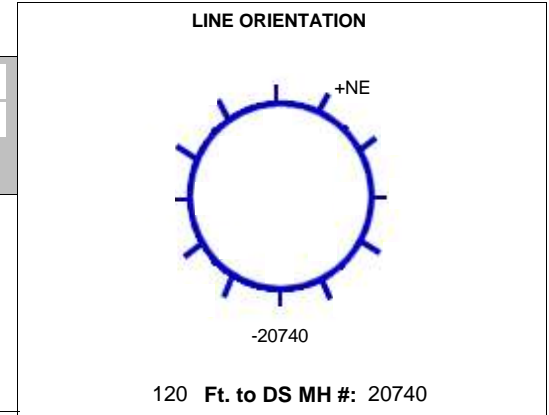
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	East	04' 03"	4	PVC		0	0	0	Service
IN FROM	20725	04' 06"	8	VCP		0.10	0	0	
OUT TO	20745	04' 08"	8	VCP		0.25	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20734
Street:	Nantasket Ave (near Cumberland Farms)	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 2 X 2 X 0.9 = 4 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input checked="" type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	NONE	0		
WALLS	BRICK	1		
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

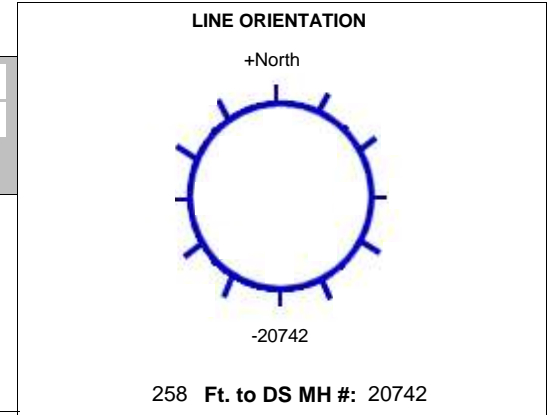
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NE	01' 11"	4	CIP		0	0	0	Service
OUT TO	20740	01' 11"	6	VCP		0	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20735
Street:	6 Old Colony Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 25 X 2 X 0.9 = 45 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 23.5 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

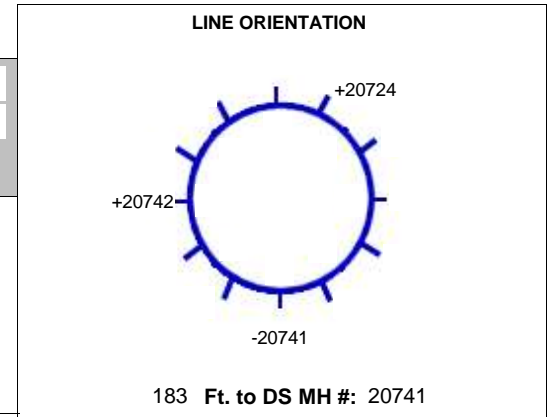
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	North	04' 09"	6	VCP		0	0.50	0	Start of line
OUT TO	20742	04' 10"	6	VCP		0	0.50	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20737
Street:	17 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: BELOW 0.5 In. Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 75 X 2 X 0.9 = 135 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

INTERNAL MANHOLE OBSERVATIONS Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	3		Missing brick, Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	3	0.1	Weeping infiltration
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

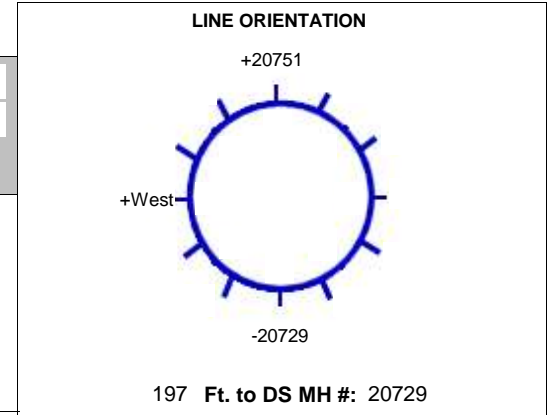
LINE CONDITIONS Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20724	05' 09"	8	VCP		0.50	0	0	Outside drop
IN FROM	20742	08' 00"	8	VCP		2.00	0	0	
OUT TO	20741	08' 00"	8	VCP		2.50	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20738
Street:	77 Hampton Circle	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 30 X 2 X 0.9 = 54 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 23.5 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

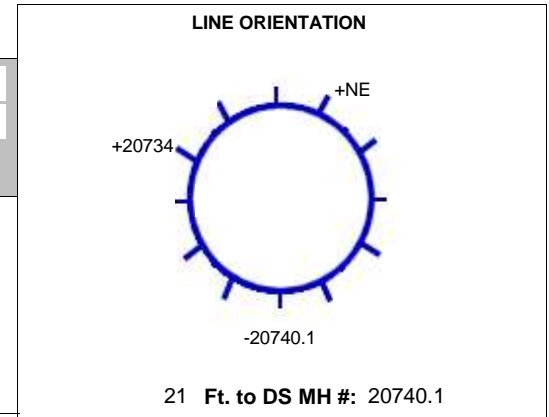
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	West	05' 05"	6	VCP		0.10	0	0	Start of line
IN FROM	20751	05' 05"	6	VCP		0.10	0	0	
OUT TO	20729	05' 07"	6	VCP		0.10	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20740
Street:	Nantasket Avenue	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 2 X 2 X 0.9 = 4 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: Soil (if applicable) 2 X 2 X 0.3 = 1 (SQFT)	
	Inflow Not likely: <input checked="" type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	NONE	0		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NE	02' 09"	4	VCP		0	0.50	0	Disconitnued service
IN FROM	20734	02' 10"	6	VCP		0	1.00	0	
OUT TO	20740.1	02' 10"	6	VCP		0	1.00	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20740.1
Street:	Nantasket Avenue	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	

LINE ORIENTATION

Ft. to DS MH #:

Cannot open, Manhole not on map

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement X X 0.9 = (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>2</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	2	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	2												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: In. Inside Frame Dia.: 0 In. Frame Height: In. Cover Type:	Drainage Area 2: Soil (if applicable) X X 0.3 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings:

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME		0		
CORBEL		0		
STEPS		0		
WALLS		0		
FLOOR		0		
INVERT		0		

Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

LINE CONDITIONS										Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)		Line Comments

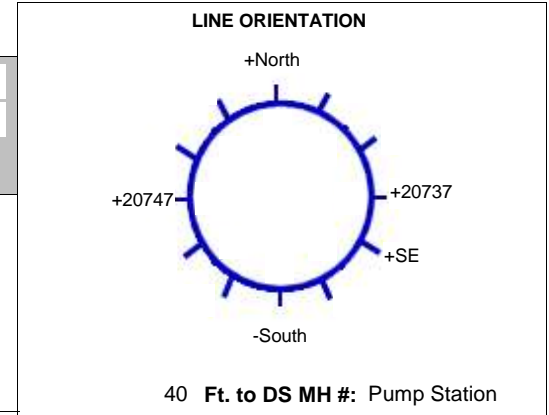
# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20741
Street:	12 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: ABOVE 0.25 In. Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 2 X 2 X 0.9 = 4 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input checked="" type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2 1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Other Hole(s)</td> <td>-- --</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s)	2 1.5	Lift Hole(s)	-- --	Other Hole(s)	-- --
QTY	SIZE (In)									
Pick Hole(s)	2 1.5									
Lift Hole(s)	-- --									
Other Hole(s)	-- --									

Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:



**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	ALUM	1		
WALLS	PRECAST	4	0.25	Running infiltration at inlet #3
FLOOR	BRICK	1		
INVERT	BRICK	1		

Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet



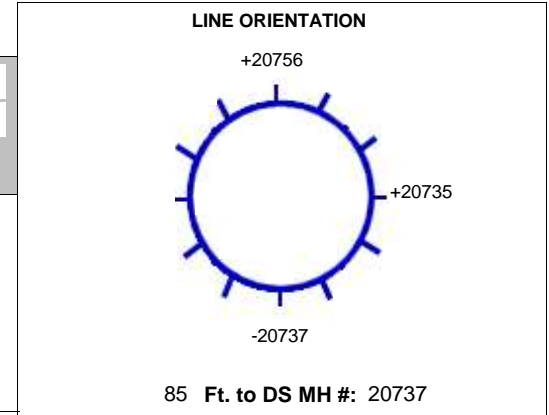
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	North	03' 07"	8	PVC		0.10	0	0	Inside drop, Service
IN FROM	SE	04' 00"	3	PVC		0	0	0	
IN FROM	20737	07' 02"	10	VCP		5.00	0.50	0	
IN FROM	20747	07' 03"	12	VCP		6.00	0	0	
OUT TO	South	07' 04"	16	VCP		6.00	0	0	Pump Station

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20742
Street:	117 Hampton Circle	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	4	0.1	Dripping infiltration
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

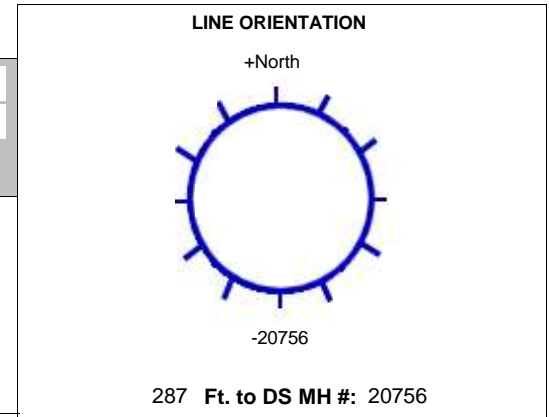
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20735	06' 00"	8	VCP		0.25	0	0	Outside drop, Flow out of top pipe
IN FROM	20756	08' 07"	8	VCP		2.50	0	0	
OUT TO	20737	08' 08"	8	VCP		2.75	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20743
Street:	8A Lincoln Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 50 X 2 X 0.9 = 90 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 23.5 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	2		Missing mortar



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

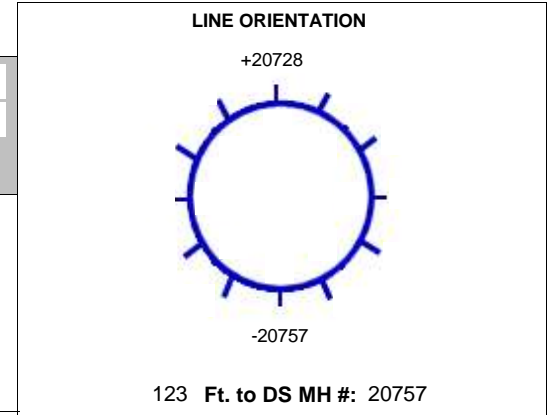
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	North	04' 11"	6	VCP		0	0	0	Start of line
OUT TO	20756	05' 03"	6	PVC		0	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20746
Street:	8 Edgewater Road	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 75 X 2 X 0.9 = 135 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

INTERNAL MANHOLE OBSERVATIONS Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	ALUM	1		
WALLS	PRECAST	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

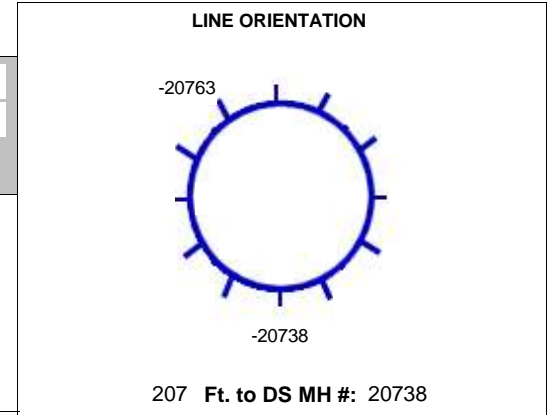
LINE CONDITIONS Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20728	09' 06"	8	ACP		0.25	0	0	
OUT TO	20757	09' 07"	8	ACP		0.25	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20751
Street:	71 Hampton Circle	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 75 X 2 X 0.9 = 135 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 23.5 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input checked="" type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	2		Chipped
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

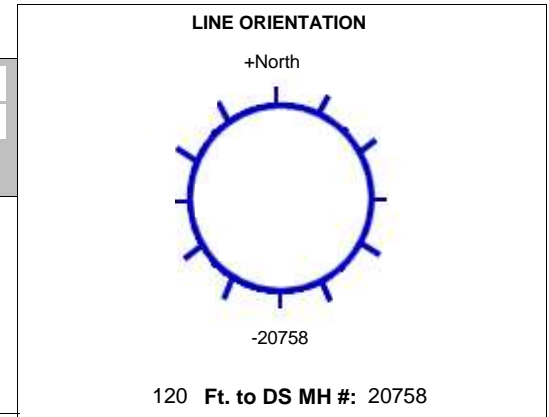
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20738	05' 09"	6	VCP		0	0	0	
OUT TO	20763	05' 09"	6	VCP		0	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20753
Street:	2 Standish Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 30 X 2 X 0.9 = 54 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 23.5 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Deteriorating brick
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

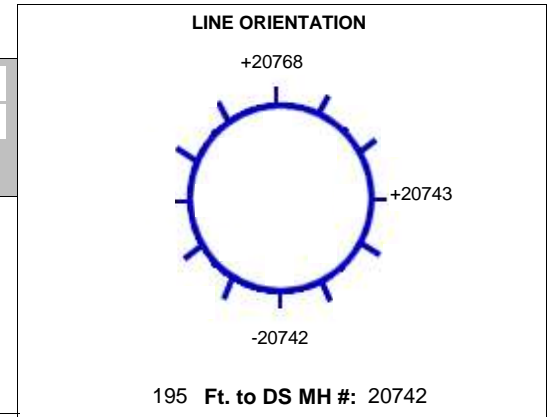
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	North	04' 05"	6	PVC		0	0	0	Start of line
OUT TO	20758	04' 08"	6	VCP		0	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20756
Street:	125 Hampton Circle	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In.	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
Cover Type: Solid	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	3		Weeping infiltration
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

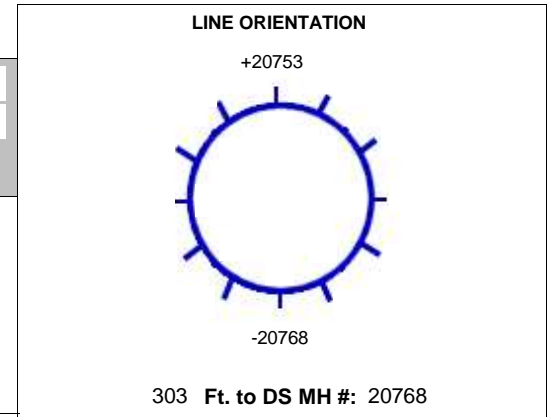
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	< NEW >					0	0		
IN FROM	20743	09' 09"	6	VCP		0.25	0	0	
IN FROM	20768	09' 11"	8	VCP		2.25	0.10	0	
OUT TO	20742	09' 11"	8	VCP		2.50	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20758
Street:	7 Standish Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: ABOVE 0.25 In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 23.5 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 75 X 2 X 0.9 = 135 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	--	--	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	--	--												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	3		Broken
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

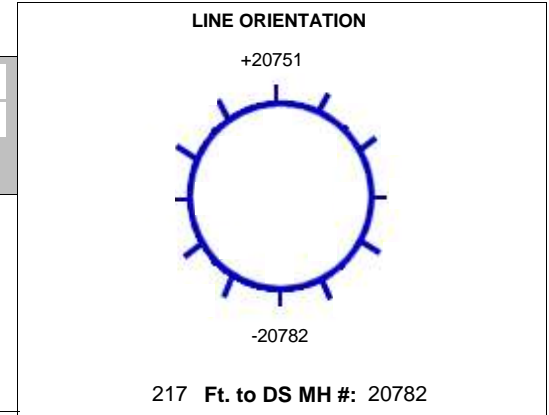
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20753	05' 11"	6	VCP		0.10	0		
OUT TO	20768	06' 01"	6	VCP		0.10	0		

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20763
Street:	61 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 100 X 2 X 0.9 = 180 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

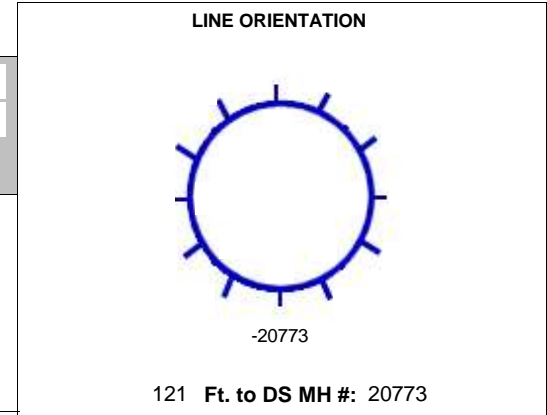
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20751	07' 03"	6	VCP		0.10	0	0	
OUT TO	20782	07' 04"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20767
Street:	2 Mayflower Avenue	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 50 X 2 X 0.9 = 90 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Starter Manhole, Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

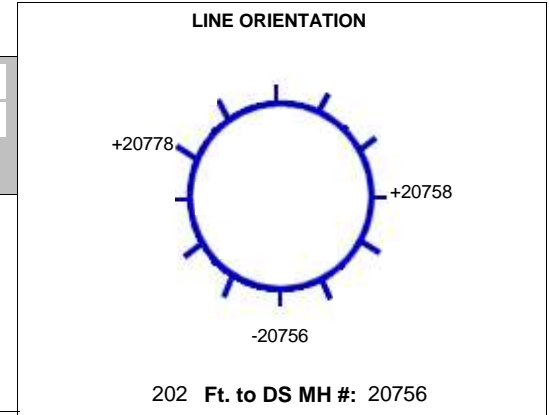
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20773	04' 07"	6	VCP		0	0.25	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20768
Street:	20 Standish Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	100 X 2 X 0.9 =	180 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	24 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	3	0.1	Weeping infiltration
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

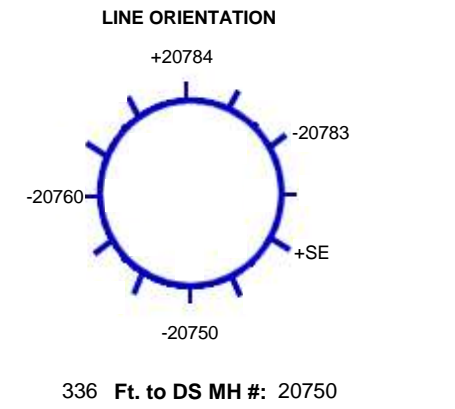
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20758	06' 00"	8	VCP		0.50	0	0	Outside drop, Flow from top pipe
IN FROM	20778	12' 02"	8	VCP		2.00	0	0	
OUT TO	20756	12' 04"	8	VCP		2.50	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality: Hull, MA **Manhole No.:** 20771  
 Street: Merrill Road and Fairmont Way **Sub-System:** 4  
 Inspection Date: 4/30/2020 Inspector: MA Map #:

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2 1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Other Hole(s)</td> <td>-- --</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s)	2 1.5	Lift Hole(s)	-- --	Other Hole(s)	-- --
QTY	SIZE (In)									
Pick Hole(s)	2 1.5									
Lift Hole(s)	-- --									
Other Hole(s)	-- --									



Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	3		Loose brick
STEPS	BRICK	1		
WALLS	BRICK	2		Staining
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

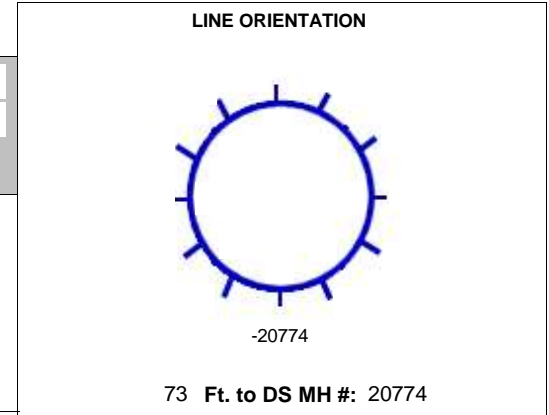
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	SE	05' 02"	4	PVC		0.10	0	0	Service
IN FROM	20784	05' 11"	6	VCP		0.10	0	0	
OUT TO	20750	06' 01"	6	VCP		0.10	0	0	
OUT TO	20760	05' 06"	8	VCP		0	1.00	0	
OUT TO	20783	05' 07"	6	VCP		0	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20772
Street:	Nantasket Ave (West) at Beach	Sub-System:	4
Inspection Date:	4/29/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: BELOW 2 In. Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Soil 8 X 2 X 0.3 = 5 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Possible old/disconnected Manhole

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	ALUM	1		
WALLS	PRECAST	1		
FLOOR	BRICK	1		
INVERT	CNI	0		Sediment



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

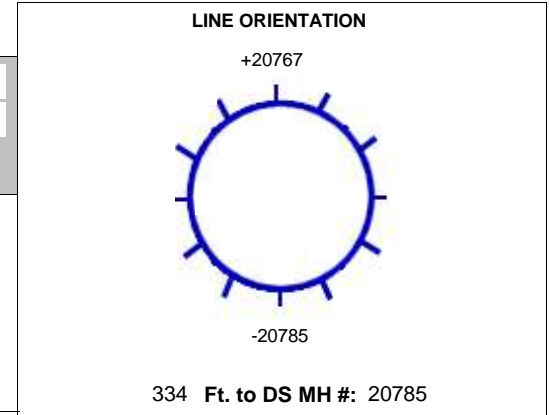
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20774	10' 00"	8	ACP		0	3.00	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20773
Street:	7 Mayflower Avenue	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: ABOVE 0.1 In. Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 4 In. Cover Type: Solid	Drainage Area 1: Pavement 75 X 2 X 0.9 = 135 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	QTY Pick Hole(s) 2 Lift Hole(s) -- Other Hole(s) --	SIZE (In) 1 -- --		

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

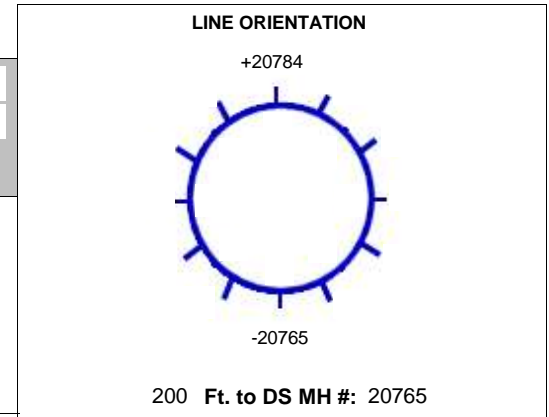
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20767	05' 00"	6	VCP		0.10	0	0	
OUT TO	20785	05' 01"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20775
Street:	7 Islandview Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20784	04' 09"	6	VCP		0.10	0	0	
OUT TO	20765	04' 11"	6	VCP		0.10	0	0	

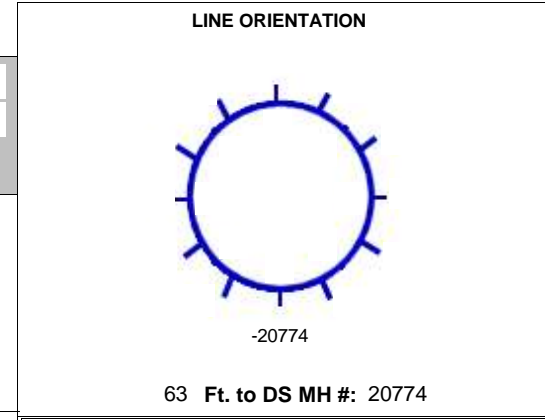
# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

<b>Municipality:</b>	Hull, MA	<b>Manhole No.:</b>	20777
<b>Street:</b>	Nantasket Ave (East) at Beach	<b>Sub-System:</b>	4
<b>Inspection Date:</b>	4/29/2020	<b>Inspector:</b>	MA
		<b>Map #:</b>	

<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>	Drainage Area 1: Soil	QTY	SIZE (In)
Grade: ABOVE	6 In.		2 X 2 X 0.3 = 1 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	24 In.		Drainage Area 2: (if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.		X X 0.9 = (SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.		Inflow Not likely: <input checked="" type="checkbox"/>	Area Subject To Flooding: <input type="checkbox"/>	
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:



Starter Manhole, Outside collar cracked and broken from frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	2		Offset 2", Loose
CORBEL	PARGED	2		Missing mortar
STEPS	ALUM	1		
WALLS	PRECAST	1		
FLOOR	BRICK	1		
INVERT	CNI	0		Sediment



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

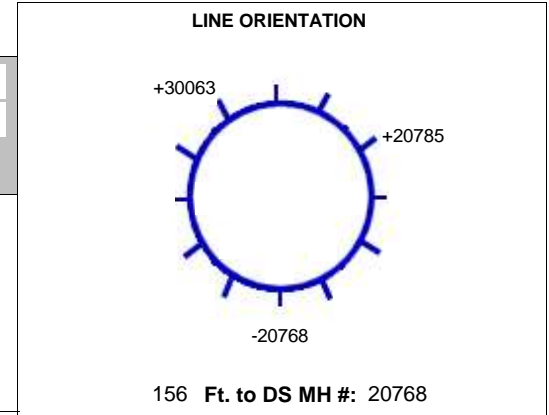
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-29-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20774	10' 09"	8	ACP		0	3.00		

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20778
Street:	Morland Avenue and Hampton Circle	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	50 X 2 X 0.9 =	90 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	21.5 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Inner Cover				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	2		Offset 5"
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	4		Running infiltration
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

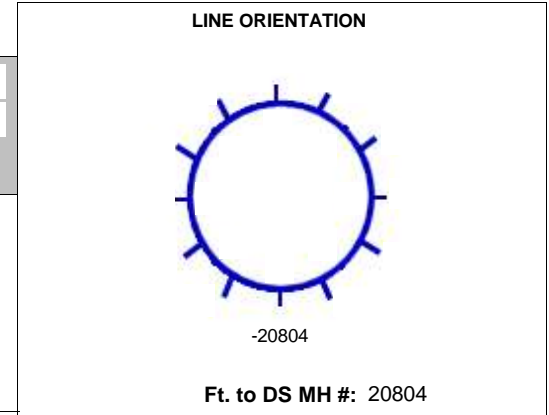
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20785	04' 10"	6	VCP		1.50	0	0	
IN FROM	30063	04' 09"	6	PVC		0.10	0	0	
OUT TO	20768	05' 00"	8	VCP		2.00	0.50	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20780
Street:	Sagamore Terrace	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 2 X 2 X 0.9 = 4 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input checked="" type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Starter Manhole, Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	3	0.1	Dripping infiltration
FLOOR	BRICK	1		
INVERT	BRICK	4	0.1	Running infiltration



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

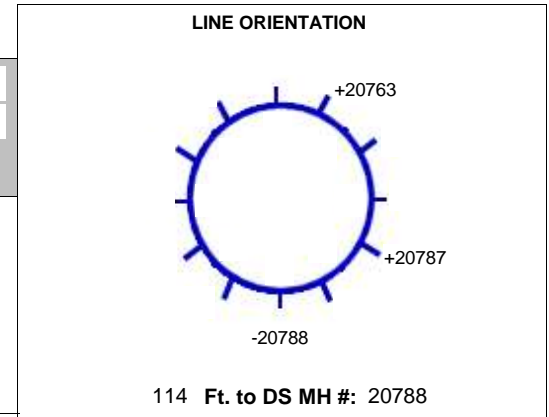
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20804	07' 04"	6	VCP		0.10	0.10	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20782
Street:	55 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL		COVER HOLES	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	BELOW 0.25 In.	100 X 2 X 0.9 =	180 (SQFT)	Pick Hole(s)	-- --
Clear Opening Dia.:	22 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	2 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Deteriorating brick, Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20763	06' 01"	6	VCP		0.10	0	0	
IN FROM	20787	05' 11"	6	VCP		0.10	0	0	
OUT TO	20788	06' 00"	8	VCP		0.25	0	0	

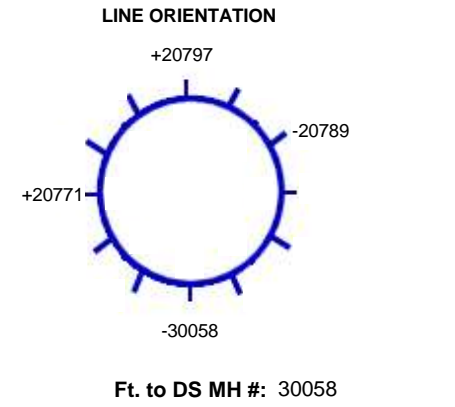


# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

<b>Municipality:</b>	Hull, MA	<b>Manhole No.:</b>	20783
<b>Street:</b>	Rosevelt Avenue and Fairmont Way	<b>Sub-System:</b>	4
<b>Inspection Date:</b>	4/30/2020	<b>Inspector:</b>	MA
		<b>Map #:</b>	

<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 26 In. Frame Height: 6 In. Cover Type: Vented	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	QTY Pick Hole(s) 3 Lift Hole(s) -- Other Hole(s) --	SIZE (In) 1.5 -- --		



Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	3		Cracked
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	2		Staining
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

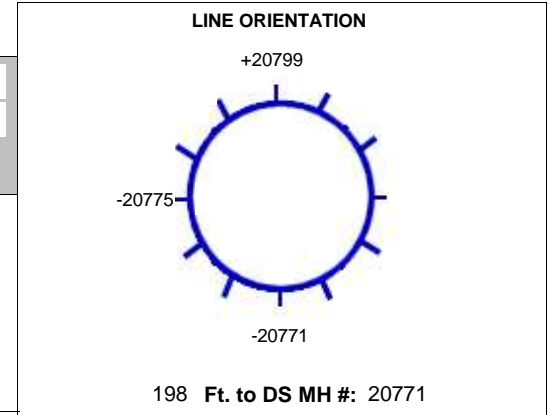
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20771	05' 06"	6	VCP		0.10	0	0	
IN FROM	20797	05' 07"	6	VCP		0.10	0	0	
OUT TO	20789	05' 07"	6	VCP		0	2.00	0	
OUT TO	30058	05' 09"	6	VCP		0.10	0		



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20784
Street:	Merrill Road and Islandview Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	100 X 2 X 0.9 =	180 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	22 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	24 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	6 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	CNI	0		Blockage
INVERT	CNI	0		Blockage



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

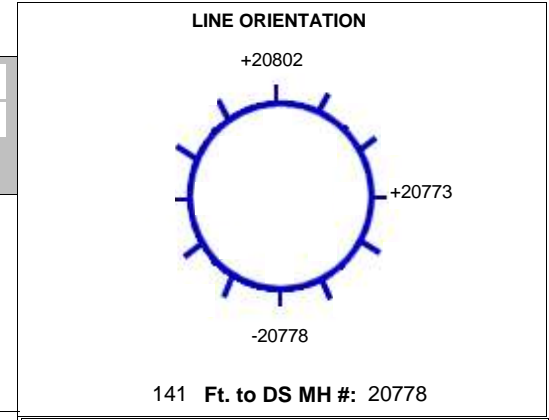
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20799	05' 01"	6	VCP		0.10	5.00	0	
OUT TO	20771	05' 03"	6	VCP		0.10	0	0	
OUT TO	20775	04' 03"	6	VCP		0	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20785
Street:	3 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: BELOW 1 In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 25 X 2 X 0.9 = 45 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Lift Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Other Hole(s)</td> <td>-- --</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s)	-- --	Lift Hole(s)	-- --	Other Hole(s)	-- --
QTY	SIZE (In)									
Pick Hole(s)	-- --									
Lift Hole(s)	-- --									
Other Hole(s)	-- --									

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Deteriorating brick
STEPS	BRICK	1		
WALLS	BRICK	2		Staining
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

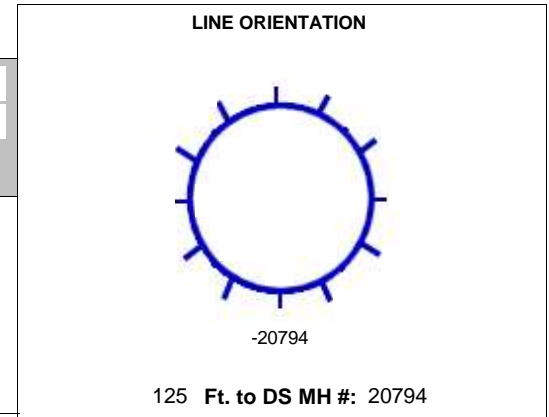
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20773	07' 09"	8	VCP		0.25	0	0	
IN FROM	20802	07' 10"	8	VCP		1.75	0.25	0	
OUT TO	20778	07' 11"	8	VCP		2.00	0.25	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20786
Street:	5 Morland Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: ABOVE 0.5 In. Clear Opening Dia.: 21.5 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Inner Cover	Drainage Area 1: Pavement 50 X 2 X 0.9 = 90 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Starter Manhole

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	2		Chipped
CORBEL	BRICK	1		
STEPS	PLASTIC	1		
WALLS	PRECAST	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

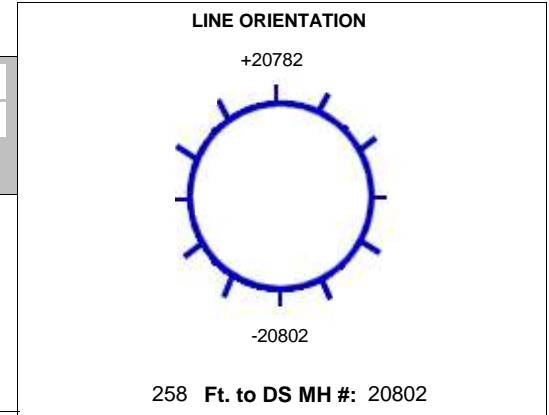
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20794	04' 08"	6	PVC		0	0.50	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20787
Street:	7 Andrew Road	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 2 X 2 X 0.9 = 4 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input checked="" type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	--	--	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	--	--												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Deteriorating brick
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

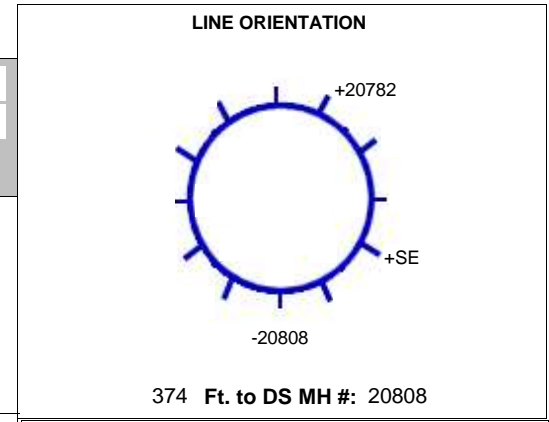
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20782	05' 03"	6	VCP		0	0	0	
OUT TO	20802	05' 03"	6	VCP		0	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20788
Street:	45 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: BELOW 0.5 In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 20 X 2 X 0.9 = 36 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input checked="" type="checkbox"/>	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Lift Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Other Hole(s)</td> <td>-- --</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s)	-- --	Lift Hole(s)	-- --	Other Hole(s)	-- --
QTY	SIZE (In)									
Pick Hole(s)	-- --									
Lift Hole(s)	-- --									
Other Hole(s)	-- --									

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	3		Loose brick, Offset 5"
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

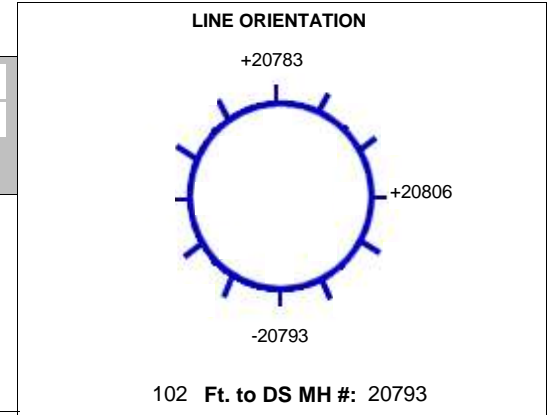
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	SE	04' 07"	4	VCP		0.10	0	0	Service
IN FROM	20782	04' 09"	8	VCP		0.25	0	0	
OUT TO	20808	04' 10"	8	VCP		0.25	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20789
Street:	Fairmount Way and Hillside Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 1: Pavement 200 X 2 X 0.9 = 360 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	2		Chipped
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	2		Staining
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

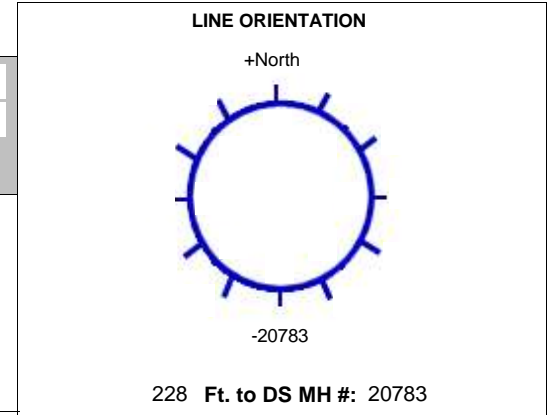
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20783	07' 04"	6	VCP		0.10	0	0	
IN FROM	20806	07' 03"	6	VCP		0.10	0	0	
OUT TO	20793	07' 06"	6	VCP		0.25	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20797
Street:	28 Roosevelt Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 100 X 2 X 0.9 = 180 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	2		Staining
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	North	05' 10"	6	VCP		0.10	0	0	Start of line
OUT TO	20783	05' 11"	6	VCP		0.10	0		

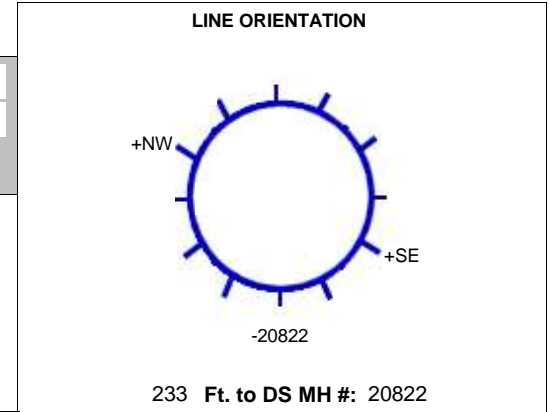


# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20798
Street:	Roosevelt Avenue and Eastern Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 8 X 2 X 0.9 = 14 (SQFT)	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>1 2</td> </tr> <tr> <td>Lift Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Other Hole(s)</td> <td>-- --</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s)	1 2	Lift Hole(s)	-- --	Other Hole(s)	-- --
QTY	SIZE (In)									
Pick Hole(s)	1 2									
Lift Hole(s)	-- --									
Other Hole(s)	-- --									
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)									
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>									



Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

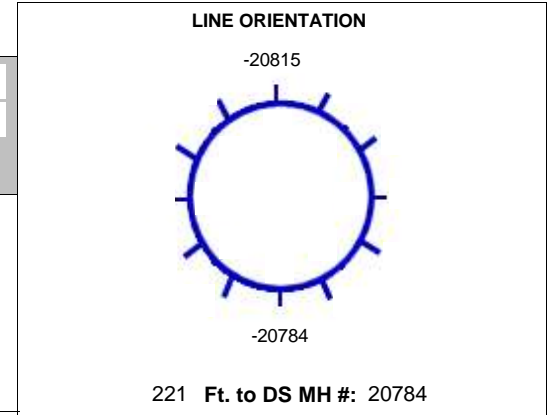
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NW	05' 04"	6	VCP		0.10	0	0	Start of line
IN FROM	SE	05' 04"	6	VCP		0.10	0	0	Service
OUT TO	20822	05' 08"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20799
Street:	31 Merrill Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 2 X 2 X 0.9 = 4 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input checked="" type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	3	0.1	Dripping infiltration
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

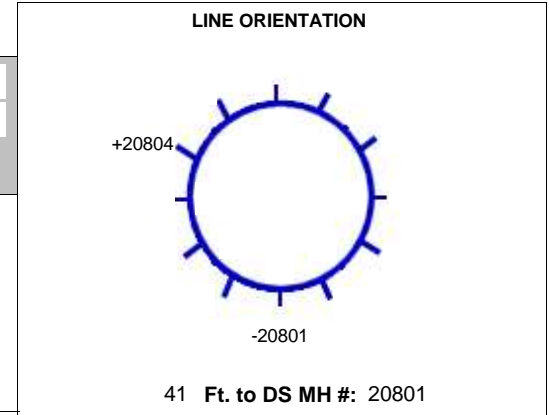
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20784	05' 07"	6	VCP		0.50	0	0	
OUT TO	20815	05' 07"	6	VCP		0.50	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20800
Street:	Porrazzo Road and Bay Street	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 50 X 2 X 0.9 = 90 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Loose brick
STEPS	BRICK	1		
WALLS	BRICK	3	0.1	Weeping infiltration
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

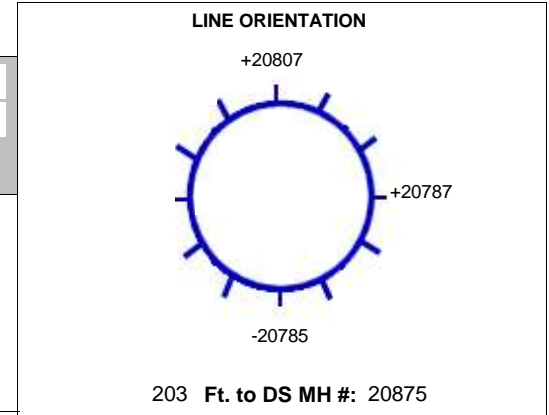
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20804	06' 10"	6	VCP		0.10	0	0	
OUT TO	20801	06' 09"	8	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20802
Street:	15 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: BELOW 0.25 In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	--	--	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	--	--												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	3	0.1	Missing mortar, Weeping infiltration
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20787	05' 08"	8	VCP		0.50	0	0	Outside drop
IN FROM	20807	08' 09"	8	VCP		1.00	0	0	
OUT TO	20785	08' 10"	8	VCP		1.50	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20804
Street:	Porrazzo Road and Sagamore Terrace	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	

LINE ORIENTATION
Ft. to DS MH #:
Cannot locate

<b>COVER CHARACTERISTICS / COMMENTS</b> Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/>  Clear Opening Dia.: In. Inside Frame Dia.: 0 In. Frame Height: In. Cover Type:	<b>COVER INFLOW POTENTIAL</b> Drainage Area 1: Pavement X X 0.9 = (SQFT) Drainage Area 2: Soil (if applicable) X X 0.3 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<b>COVER HOLES</b> <table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>2</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	2	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	2												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Cover Cond: <input type="checkbox"/> Sound: <input type="checkbox"/> Bolts Missing: <input type="checkbox"/> Corroded: <input type="checkbox"/> Cracked: <input type="checkbox"/> Missing: <input type="checkbox"/> Restraint Missing: <input type="checkbox"/> Restraint Defective: <input type="checkbox"/>														

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings:

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME		0		
CORBEL		0		
STEPS		0		
WALLS		0		
FLOOR		0		
INVERT		0		

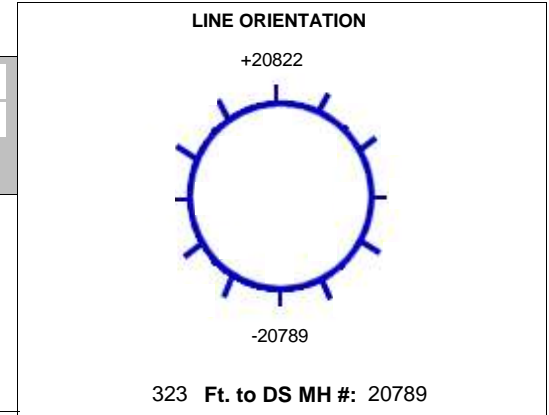
Surcharge From Invert: NONE EVIDENT    Currently:    Feet    Marks To:    Feet

LINE CONDITIONS										Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)		Line Comments

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20806
Street:	10 Hillside Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 100 X 2 X 0.9 = 180 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

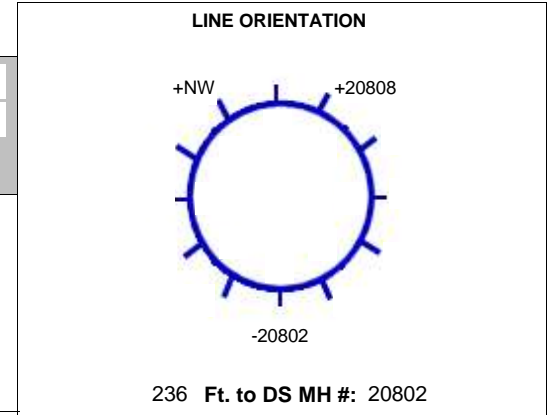
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20822	06' 06"	6	VCP		0.10	0	0	
OUT TO	20789	06' 06"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20807
Street:	25 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 10 X 2 X 0.9 = 18 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

INTERNAL MANHOLE OBSERVATIONS Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

LINE CONDITIONS Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos5-4-2020\DSC

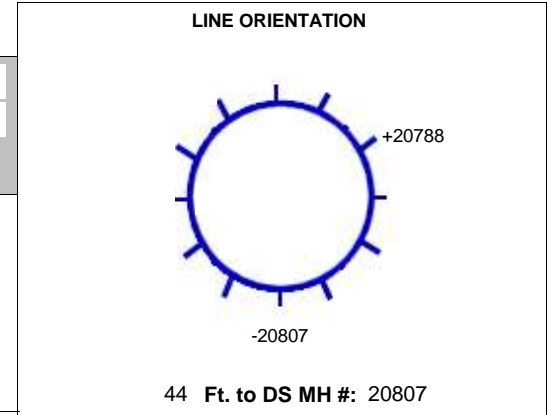
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NW	04' 10"	8	VCP		0	0	0	Service
IN FROM	20808	05' 02"	8	VCP		0.75	0	0	
OUT TO	20802	05' 02"	8	VCP		0.75	0.25	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20808
Street:	31 Hampton Circle	Sub-System:	4
Inspection Date:	5/4/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 8 X 2 X 0.9 = 14 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing brick
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

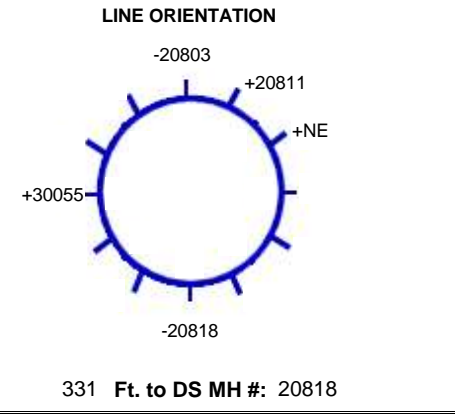
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\5-4-2020\DSC

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20788	05' 03"	8	VCP		0.50	0.25	0	
OUT TO	20807	05' 03"	8	VCP		0.50	0.25	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality: Hull, MA  
 Street: Nantasket Avenue and Bay Street  
 Inspection Date: 4/30/2020 Inspector: MA Map #:   
 Manhole No.: 20810  
 Sub-System: 4



COVER CHARACTERISTICS / COMMENTS		COVER INFLOW POTENTIAL		COVER HOLES	
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>		Drainage Area 1: Pavement		QTY	SIZE (In)
Grade: AT In.		20 X 4 X 0.9 = 72 (SQFT)		Pick Hole(s)	-- --
Clear Opening Dia.: 36 In.		Drainage Area 2: (if applicable)		Lift Hole(s)	-- --
Inside Frame Dia.: 38 In.		X X 0.9 = (SQFT)		Other Hole(s)	-- --
Frame Height: 8 In.		Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>			
Cover Type: Solid					

Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

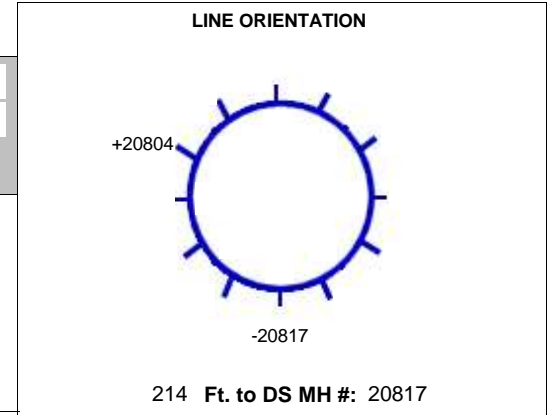
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NE	04' 09"	8	VCP		0	0		Sealed pipe, Possible old drain
IN FROM	20811	06' 11"	8	VCP		0	1.00	0	
IN FROM	30055	06' 11"	8	VCP		0.10	0	0	
OUT TO	20803	07' 01"	8	VCP		0	0	0	
OUT TO	20818	07' 02"	8	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20812
Street:	31 Sagamore Terrace	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	50 X 2 X 0.9 =	90 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	22 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	24 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	6 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

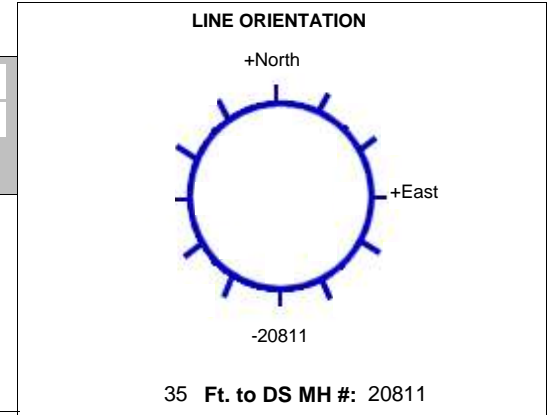
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20804	05' 01"	6	VCP		0.25	2.00	0	
OUT TO	20817	05' 02"	6	VCP		0.25	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20813
Street:	Water Street	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 20 X 2 X 0.9 = 36 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 21.5 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Inner Cover	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Needs to be cleaned

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	ALUM	1		
WALLS	PRECAST	3		Mineral deposits
FLOOR	CNI	0		Surcharged
INVERT	CNI	0		Surcharged



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

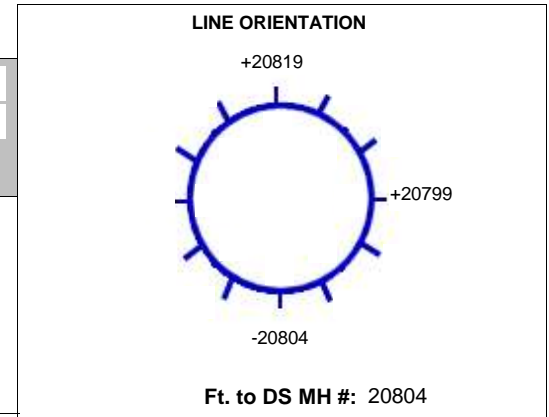
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	East	07' 11"	8	PVC		1.00	3.00	0	Service
IN FROM	North	07' 11"	8	VCP		0	7.00	0	Service
OUT TO	20811	07' 11"	8	PVC		1.00	1.00	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

<b>Municipality:</b>	Hull, MA	<b>Manhole No.:</b>	20815
<b>Street:</b>	Porrazzo Road and Merrill Avenue	<b>Sub-System:</b>	4
<b>Inspection Date:</b>	4/30/2020	<b>Inspector:</b>	MA
		<b>Map #:</b>	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 1: Pavement 150 X 2 X 0.9 = 270 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	QTY Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --			

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	4		Missing brick, Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

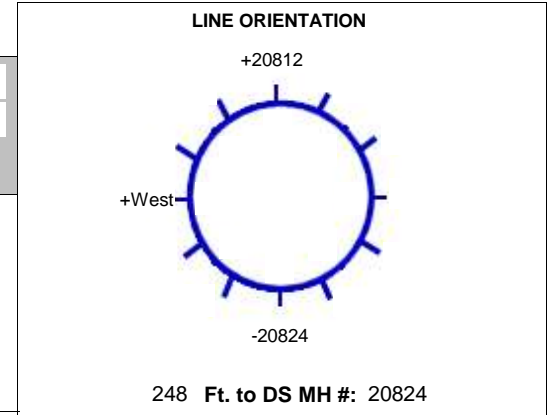
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20799	06' 11"	6	VCP		0.10	0	0	
IN FROM	20819	06' 11"	6	VCP		0.10	0	0	
OUT TO	20804	06' 11"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20817
Street:	3 Sagamore Terrace	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	50 X 2 X 0.9 =	90 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	22 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	24 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	6 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	3		Broken
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

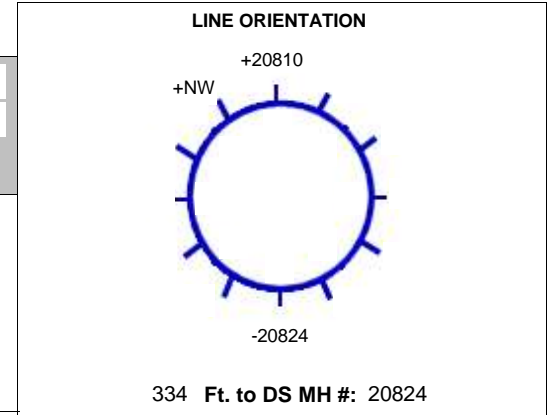
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	West	04' 03"	4	VCP		0	0	0	Service
IN FROM	20812	05' 03"	6	VCP		0.25	0	0	
OUT TO	20824	05' 04"	6	VCP		0.25	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20818
Street:	295 Nantasket Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	8 X 2 X 0.9 =	14 (SQFT)	Pick Hole(s)	-- --
Clear Opening Dia.:	24 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	5 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	3		Broken
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

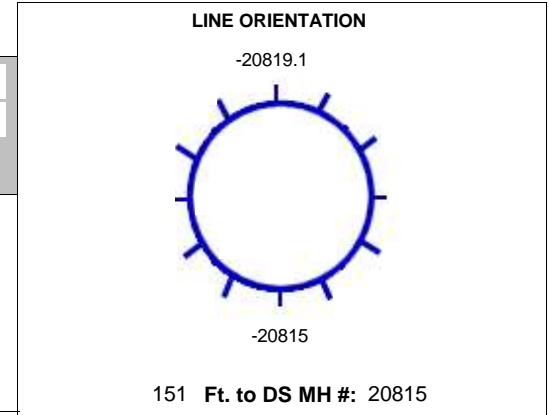
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NW	02' 08"	4	STEEL		0	0	0	Sealed pipe, Possible old drain, Sound test negative to nearby catch basin
IN FROM	20810	07' 09"	8	VCP		0.25	0	0	
OUT TO	20824	07' 10"	8	VCP		0.25	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20819
Street:	Porrazzo Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried: <input type="checkbox"/>	CNL: <input type="checkbox"/>	CNI: <input type="checkbox"/>	Drainage Area 1: Pavement	QTY	SIZE (In)
Grade: BELOW	1 In.		20 X 2 X 0.9 = 36 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	22 In.		Drainage Area 2: (if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	24 In.		X X 0.9 = (SQFT)	Other Hole(s)	-- --
Frame Height:	6 In.		Inflow Not likely: <input type="checkbox"/>	Area Subject To Flooding: <input checked="" type="checkbox"/>	
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	5		Missing brick and missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	CNI	0		Covered in debris
INVERT	CNI	0		Covered in debris



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

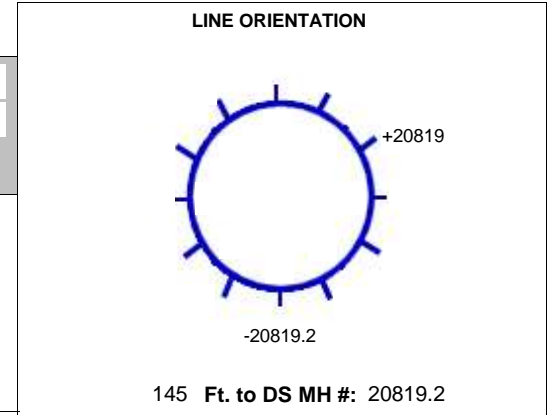
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
OUT TO	20815	04' 08"	6	VCP		0	1.00	0	
OUT TO	20819.1	04' 10"	6	VCP		0	1.00	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20819.1
Street:	8 Porrazzo Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 50 X 2 X 0.9 = 90 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Manhole not on map

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	2		Missing mortar



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20819	04' 08"	6	VCP		0.10	0	0	
OUT TO	20819.2	04' 09"	6	PVC		0.10	0	0	

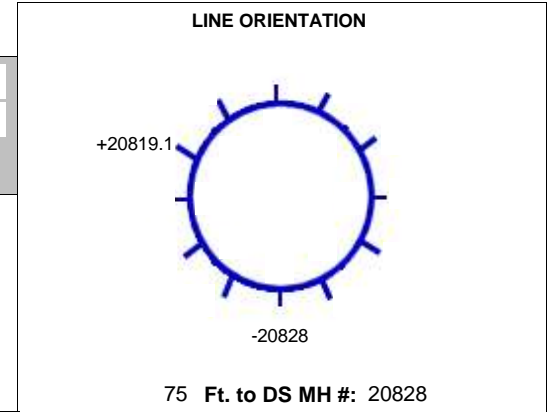
# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20819.2
Street:	3 Porrazzo Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	

<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	75 X 2 X 0.9 =	135 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	22 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	24 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	6 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:



Cracked pavement surrounding frame, Manhole not on map

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

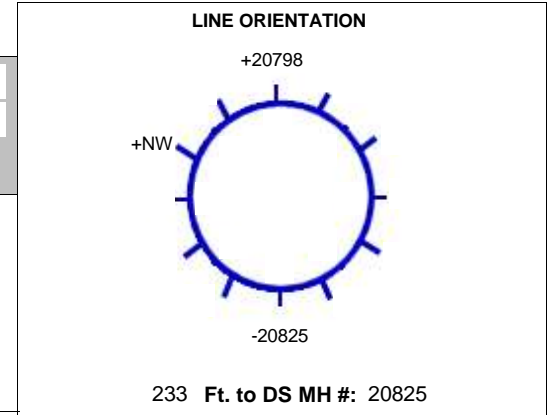
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Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20819.1	04' 02"	6	VCP		0.10	0	0	
OUT TO	20828	04' 03"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20822
Street:	Eastern Avenue and Hillside Road	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 200 X 2 X 0.9 = 360 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 26 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	4		Missing brick and missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NW	04' 03"	6	VCP		0	0	0	Service
IN FROM	20798	06' 01"	6	VCP		0.10	0	0	
OUT TO	20825	06' 03"	6	VCP		0.10	0	0	

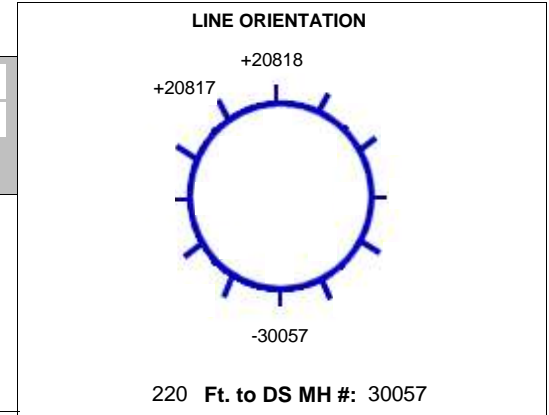
# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality: Hull, MA **Manhole No.:** 20824  
 Street: Nantasket Avenue and Sagamore Terrace **Sub-System:** 4  
 Inspection Date: 4/30/2020 Inspector: MA Map #:

COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES								
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 1: Pavement 10 X 2 X 0.9 = 18 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Lift Hole(s)</td> <td>-- --</td> </tr> <tr> <td>Other Hole(s)</td> <td>-- --</td> </tr> </tbody> </table>	QTY	SIZE (In)	Pick Hole(s)	-- --	Lift Hole(s)	-- --	Other Hole(s)	-- --
QTY	SIZE (In)									
Pick Hole(s)	-- --									
Lift Hole(s)	-- --									
Other Hole(s)	-- --									

Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:



Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	2		Broken
WALLS	BRICK	3	0.1	Weeping infiltration
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

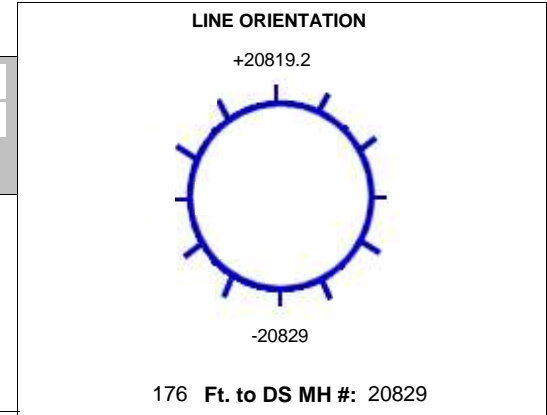
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20817	08' 10"	8	VCP		0.50	0	0	
IN FROM	20818	09' 00"	8	VCP		0.50	0.25	0	
OUT TO	30057	09' 00"	8	ACP		1.00	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20828
Street:	Porrazzo Road and Nantasket Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES												
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 100 X 2 X 0.9 = 180 (SQFT)	<table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	1.5	Lift Hole(s)	--	--	Other Hole(s)	--	--
	QTY	SIZE (In)												
Pick Hole(s)	2	1.5												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In.	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)													
Cover Type: Solid	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>													

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame, Needs to be cleaned

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	2		Missing mortar
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert:  Currently: 3 Feet Marks To:  Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos4-30-2020\DS

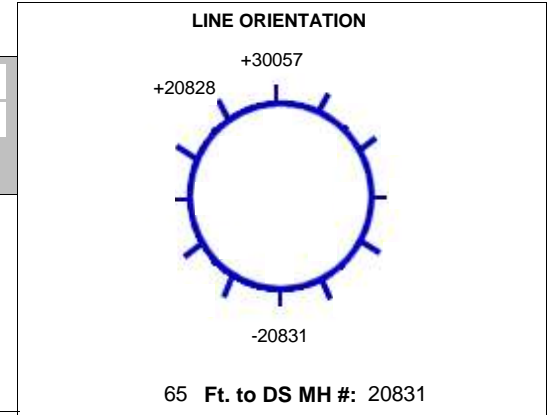
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20819.2	04' 05"	6	VCP		0.10	5.00	0	
OUT TO	20829	04' 06"	6	VCP		0.10	0	0	



# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	20829
Street:	257 Nantasket Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	8 X 2 X 0.9 =	14 (SQFT)	Pick Hole(s)	-- --
Clear Opening Dia.:	24 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	26 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	6 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	3		Broken
WALLS	BRICK	1		
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20828	08' 03"	8	VCP		0.25	0	0	
IN FROM	30057	08' 04"	8	ACP		1.25	0	0	
OUT TO	20831	08' 05"	8	ACP		1.50	0	0	

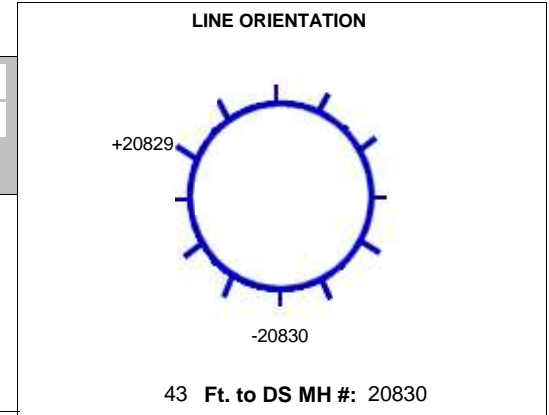


# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

<b>Municipality:</b>	Hull, MA	<b>Manhole No.:</b>	20831
<b>Street:</b>	Nantasket Avenue and George Washington Blvd.	<b>Sub-System:</b>	4
<b>Inspection Date:</b>	4/30/2020	<b>Inspector:</b>	MA
		<b>Map #:</b>	

<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 21.5 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Inner Cover	Drainage Area 1: Pavement 20 X 2 X 0.9 = 36 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	QTY Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --			



Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings:

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	4		Missing bricks
FLOOR	BRICK	2		Missing mortar
INVERT	BRICK	2		Missing mortar



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

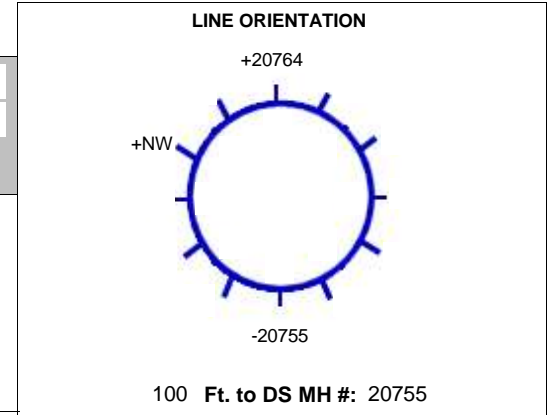
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20829	08' 03"	8	VCP		1.50	0	0	
OUT TO	20830	08' 03"	8	VCP		1.50	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	30052
Street:	105 Bay Street	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried:	<input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/>	Drainage Area 1:	Pavement	QTY	SIZE (In)
Grade:	AT In.	6 X 2 X 0.9 =	11 (SQFT)	Pick Hole(s)	2 1.5
Clear Opening Dia.:	22 In.	Drainage Area 2:	(if applicable)	Lift Hole(s)	-- --
Inside Frame Dia.:	24 In.	X X 0.9 =	(SQFT)	Other Hole(s)	-- --
Frame Height:	8 In.	Inflow Not likely:	<input type="checkbox"/> Area Subject To Flooding:		
Cover Type:	Solid				

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

Cracked and missing pavement surrounding frame

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	2		Chipped
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:  Feet Marks To:  Feet

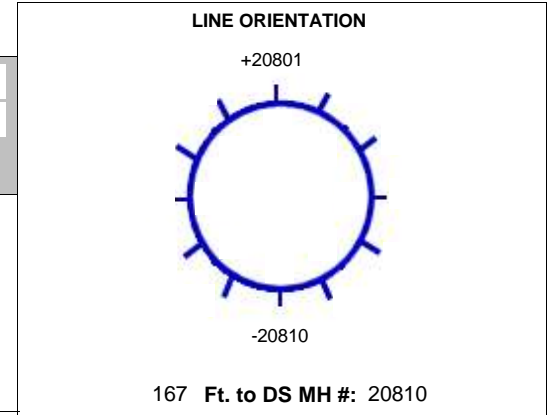
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	NW	05' 07"	4	VCP		0	0	0	Service
IN FROM	20764	06' 02"	6	VCP		0.10	0	0	
OUT TO	20755	06' 04"	6	VCP		0.10	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

<b>Municipality:</b>	Hull, MA	<b>Manhole No.:</b>	30055
<b>Street:</b>	Bay Street (parking lot near Nantasket Avenue)	<b>Sub-System:</b>	4
<b>Inspection Date:</b>	4/30/2020	<b>Inspector:</b>	MA
		<b>Map #:</b>	



<b>COVER CHARACTERISTICS / COMMENTS</b>		<b>COVER INFLOW POTENTIAL</b>		<b>COVER HOLES</b>	
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Clear Opening Dia.: 22 In. Inside Frame Dia.: 24 In. Frame Height: 6 In. Cover Type: Vented	Drainage Area 1: Pavement 10 X 2 X 0.9 = 18 (SQFT) Drainage Area 2: (if applicable) X X 0.9 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	QTY Pick Hole(s) 3 1.5 Lift Hole(s) -- -- Other Hole(s) -- --			

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

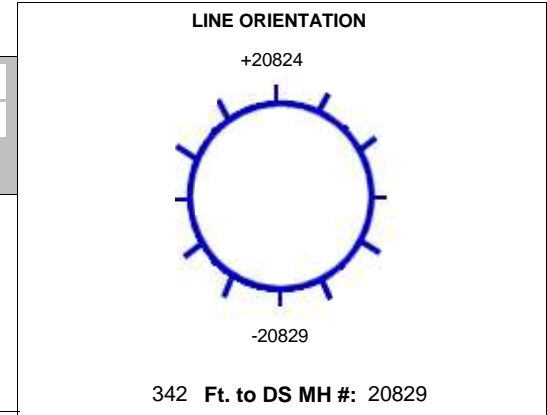
**LINE CONDITIONS** Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20801	05' 05"	8	VCP		0.25	0	0	
OUT TO	20810	05' 05"	8	VCP		0.25	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	30057
Street:	269 Nantasket Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 6 X 2 X 0.9 = 11 (SQFT)	QTY SIZE (In) Pick Hole(s) -- -- Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 24 In. Inside Frame Dia.: 26 In. Frame Height: 6 In. Cover Type: Solid	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond:  Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	1		
CORBEL	BRICK	1		
STEPS	BRICK	1		
WALLS	BRICK	1		
FLOOR	BRICK	1		
INVERT	BRICK	1		



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	20824	09' 03"	8	ACP		1.00	0.25	0	
OUT TO	20829	09' 04"	8	ACP		1.00	0	0	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	30058
Street:	Roosevelt Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	

LINE ORIENTATION
Ft. to DS MH #:
Cannot locate

<b>COVER CHARACTERISTICS / COMMENTS</b> Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/>  Clear Opening Dia.: In. Inside Frame Dia.: 0 In. Frame Height: In. Cover Type:	<b>COVER INFLOW POTENTIAL</b> Drainage Area 1: Pavement X X 0.9 = (SQFT) Drainage Area 2: Soil (if applicable) X X 0.3 = (SQFT) Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	<b>COVER HOLES</b> <table border="1"> <thead> <tr> <th></th> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>Pick Hole(s)</td> <td>2</td> <td>2</td> </tr> <tr> <td>Lift Hole(s)</td> <td>--</td> <td>--</td> </tr> <tr> <td>Other Hole(s)</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		QTY	SIZE (In)	Pick Hole(s)	2	2	Lift Hole(s)	--	--	Other Hole(s)	--	--
		QTY	SIZE (In)											
Pick Hole(s)	2	2												
Lift Hole(s)	--	--												
Other Hole(s)	--	--												
Cover Cond: Sound: <input type="checkbox"/> Bolts Missing: <input type="checkbox"/> Corroded: <input type="checkbox"/> Cracked: <input type="checkbox"/> Missing: <input type="checkbox"/> Restraint Missing: <input type="checkbox"/> Restraint Defective: <input type="checkbox"/>														

**INTERNAL MANHOLE OBSERVATIONS** Number of Frame Adjustment Rings:

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME		0		
CORBEL		0		
STEPS		0		
WALLS		0		
FLOOR		0		
INVERT		0		

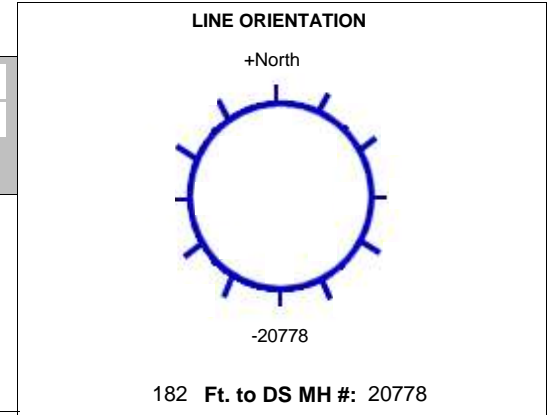
Surcharge From Invert: NONE EVIDENT    Currently:    Feet    Marks To:    Feet

LINE CONDITIONS										Image Path:
Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments	

# Flow Assessment Services, LLC. Structure Inspection Log

Surface  Internal

Municipality:	Hull, MA	Manhole No.:	30063
Street:	10 Morland Avenue	Sub-System:	4
Inspection Date:	4/30/2020	Inspector:	MA
		Map #:	



COVER CHARACTERISTICS / COMMENTS	COVER INFLOW POTENTIAL	COVER HOLES
Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In.	Drainage Area 1: Pavement 6 X 2 X 0.9 = 11 (SQFT)	QTY SIZE (In) Pick Hole(s) 2 1.5 Lift Hole(s) -- -- Other Hole(s) -- --
Clear Opening Dia.: 21.5 In. Inside Frame Dia.: 26 In. Frame Height: 8 In. Cover Type: Inner Cover	Drainage Area 2: (if applicable) X X 0.9 = (SQFT)	
	Inflow Not likely: <input type="checkbox"/> Area Subject To Flooding: <input type="checkbox"/>	

Cover Cond: Sound:  Bolts Missing:  Corroded:  Cracked:  Missing:  Restraint Missing:  Restraint Defective:

INTERNAL MANHOLE OBSERVATIONS Number of Frame Adjustment Rings: 0

ITEM	MATERIAL	CONDITION	Leaks (gpm)	DEFECTS
FRAME	CAST	2		Chipped
CORBEL	BRICK	1		
STEPS	NONE	0		
WALLS	PRECAST	1		
FLOOR	BRICK	1		
INVERT	PVC	4	0.1	Running infiltration



Surcharge From Invert: NONE EVIDENT Currently:   Feet Marks To:   Feet

LINE CONDITIONS Image Path: C:\Users\FAS2020A\Desktop\Hull MH photos\4-30-2020\DS

Direction (In / Out)	Connect MH #	Rim To Invert Depth	Pipe Dia. (In.)	Pipe Material	Joint Length	Flow Depth (In.)	Debris Depth (In.)	Line Cond (1-5)	Line Comments
IN FROM	North	02' 07"	6	PVC		0	0	0	Start of line
OUT TO	20778	02' 07"	6	PVC		0.10	0	0	