

THE CITY OF WALTHAM
MASSACHUSETTS
PURCHASING DEPARTMENT

Area 13/14 Sewer Rehab, West End, 2019

ADDENDUM NO. 3

February 20th, 2019

CHANGES, CORRECTIONS AND CLARIFICATIONS

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the specifications. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 3) MUST BE ACKNOWLEDGED IN SECTION Bid Price Form Section 00310-2.

ITEM 1: ANSWERS TO POSED QUESTIONS

Q1. Where is the 24" PVC pipe per bid item #4 located?

A1. There are 24" diameter pipe segments listed in Table 6 of Section 01010 and shown on sheet B-3 of Appendix B. Should replacement of these pipe segments be deemed necessary, work shall be paid for under Bid Item #4.

Q2. The following list of manholes are not found in the contract documents for depth information.

R5811620, R5811630, R5811635, R5811670, R5807630, R5807635, R5807640, R5811675, R5811680, R5811650, R5807645, R5811710, R5807665, R5811660, R5811665, R5811700, R5811705, R5811715, R5811695, R5802995, R5811720, R5807770, R5807840.

A2.

R5811620 – Attached

R5811635 – In Appendix D.2

R5807630 – In Appendix D.2

R5807640 – Attached

R5811680 – In Appendix D.2

R5807645 – In Appendix D.2

R5807665 – In Appendix D.2 (R67_07665)

R5811665 – Attached

R5811705 – Called out to be inspected

R5811695 – In Appendix D.2

R5811720 – In Appendix D.2 (R67_11720)

R5807840 – Manhole will be added for Inspection.

R5811630 – In Appendix D.2

R5811670 – Manhole will be added for Inspection.

R5807635 – In Appendix D.2

R5811675 – In Appendix D.2

R5811650 – In Appendix D.2

R5811710 – In Appendix D.2 (R67_11710)

R5811660 – Attached

R5811700 – In Appendix D.2

R5811715 – In Appendix D.2 (R67_11715)

R5802995 – In Appendix D.2 (R59_02995)

R5807770 – In Appendix D.2 (R67_07770)

Q3. Based on our plan takeoff of the sections of pipe to be lined with CIPP, we came up with 912' of the smaller diameter and 442' of the larger diameter. The Bid Items (25 and 26) are for 1,250' and 600'. Can you please clarify the Scope and quantities for the CIPP lining?

A3. There are extra quantities as some pipes and manholes are being inspected as part of this project scope of work. There is sufficient quantities in the bid items to allow for sewer rehabilitation work on manholes and pipes that will be inspected as part of this Contract.

Q4. Similar question for the reinstatement of laterals after the lining is completed. The Bid Item (27) is for 80, and in our review of the documents and video logs provided we came up with only 15.

A4. There are extra quantities as some pipes and manholes are being inspected as part of this project scope of work. There is sufficient quantities in the bid items to allow for sewer rehabilitation work on manholes and pipes that will be inspected as part of this Contract.

Q5. The video logs provided for the pipe section between R58-11655 and R58-11650 on Cabot Street indicate that it is a 10" pipe (the plans say 8") and the photos look like the section of pipe that was televised has already been lined. The street name on the individual pages of the logs say Bear Hill Valley and West End, not Cabot Street. Are the correct video logs for that section available?

A5. The "Bear Hill Valley and West End" listed on the report header is the project name. Under the Street header it is listed correctly as "Cabot St." The pipe segment in question was previously lined. The proposed rehabilitation for this pipe segment will be a structural liner from 28-32 feet from R58_11655 to repair a defect. This pipe segment will be added for inspection prior to work to confirm pipe size.

Q6. On What streets are the water services for 76 Weston St, 42 Boynton St, and 56 Cabot St located? They are not shown on in Appendix C.

A6. The plans in Appendices A, B, & C are compiled from City GIS data and are considered only to be a schematic depiction of the City's buried utilities. Not all buried entities are shown. Water and sewer services may be missing or shown incorrectly on the map. Contractor is to coordinate with the Owner to review tie cards and record information. Individual service cards will be provided by City Engineering office to the successful bidder prior to Construction.

Q7. Are the sewer laterals for 19-21 & 22-24 Eddy Street being replaced as indicated on Table 6? These addresses are past the sewer line and manhole work on Eddy Street as shown in Appendix A

A7. It is the intent of this project to replace all sewer services along pipe segments called out for replacement unless found to be PVC. #19-21 and #22-24 Eddy St are shown to be included within the pipe segment being replaced. Refer to Appendix F.

Q8. Can the City provide Sheet C-15 in Appendix? In the bid document, the page where Sheet C-15 is blank.

A8. There is no Sheet C-15 included in the Bid Documents.

Q9. What are the liquidated damages specified in the Bid Documents?

A9. Liquidated damages shall be \$5,500.00 per day.

End of Addendum 3

MACP7 Survey of R58_11620

Sheet No	7	Surveyed By	BOP	Certificate #	U-0417-07007808	Reviewed By	
Owner		Customer		Certificate #			
P.O. No		Work Order		Media Label		Project	
Date	2017/11/14	Time	10:30	Weather		Pre-Cleaning	No Pre-Cleaning
Purpose	Sewer System Evaluation Survey	Inspection Level	Level 2	Inspection Status	Remote Inspection	Date Cleaned	
Drainage Area		Street	Auburn St	City	Waltham	CoF	
Location Code	Secondary Roads	Inflow Potential from Runoff					
Manhole Surface Types	Asphalt						
Location Details							
MH Use	Sanitary	Access Type	Manhole	Year Constructed		Year Renewed	
Evidence of Surcharge	No						
Rim to Invert	6.6 ft.	Grade to Invert	6.6 ft.	Rim to Grade	0.0 ft.	Rim to Grade Exposed	
Northing		Easting		Elevation		Accuracy of GPS	
Coordinate System		Vertical Datum					
Additional Information							

Cover	Cover Type	Solid					
	Cover Shape	Circular	Cover Size	24.0 in.	Center Cover Size	Size Width	
	Cover Material	Cast Iron	Vent Hole Diameter		# Vent Holes		
	Bearing Surface Diameter	24.0 in.	Bearing Surface Diameter Width		Cover Frame Fit	Good	
	Cover Condition	Sound					

Cover Insert	Cover Insert Type	None					
	Cover Insert Condition						

Adj. Ring	Ring Type	None	Ring Material		Ring Height		
	Ring Condition						

Frame	Frame Material	Cast Iron	Bearing Surface Width	1.0 in.	Bearing Surface Depth	1.0 in.	
	Clear Opening Diameter	22.0 in.	Clear Opening Width				
	Frame Condition	Sound					
	Seal Condition	Sound					
	Offset Distance	0 in.	Frame Seal Inflow	Weeper	Frame Depth		

Chimney	Chimney Present	Yes	1st Material	Brick	2nd Material		
	Chimney I/I		Clear Opening		Chimney Depth	2.2 ft.	
	Lining Interior		Lining Exterior		Chimney Condition		

Cone	Type	Not Present	Material		Depth		
	Lining Interior		Lining Exterior		Cone Condition		

Wall	Wall Diameter		Wall By Size		Wall Material	Brick	
	Wall Depth	6.1 ft.	Lining Interior		Lining Exterior		
	Wall Condition						

Bench	Bench Present	Yes	Bench Material	Brick			
	Bench Lining		Bench Condition				

Channel/Step	Channel Installed	Yes	Channel Material	Brick	Channel Type	Formed	
	Channel Exposure	Fully Open	Channel Condition				
	# Steps	3	Step Material	Brick			



PipeLogix Inc.
 Phone: 866-299-3150
 Fax: 760-406-6023

MACP7 Survey of R58_11620

Sheet No	7	Date	2017/11/14	P.O. No	
Street	Auburn St			Inspection Level	Level 2
City	Waltham			Inspection Status	Remote Inspection

Pipe Connections

Num	Clk Pos	Rim to Invert	Dir	Material	Shape	Height	Width	Pipe Cond	Seal Cond	Pipe Type	PSR
1	6	6.6 ft.	Out	VCP	C	8 in.		S	S	GR	
Comments											
2	11	6.4 ft.	In	VCP	C	8 in.		S	S	GR	
Comments											
3	2	6.5 ft.	In	VCP	C	8 in.		S	S	GR	
Comments											

Observations

Distance	Vid Ref	Comp	Code	CD	Jnt	Stp %	Val1	Val2	Fr	To	ImRef
1.2 ft.		CMI	MMS						12	12	
Remarks											
6.1 ft.		B	DSF			60			12	12	
Remarks											

Scores	Structural:	Pipe Rating	6	Pipe Ratings Index	1.2	Quick Rating	2114
	O&M:	Pipe Rating	10	Pipe Ratings Index	1.4	Quick Rating	3121
	Overall:	Pipe Rating	16	Pipe Ratings Index	2.6	Quick Rating	3122



PipeLogix Inc.
 Phone: 866-299-3150
 Fax: 760-406-6023



WRC

MACP Inspection Form Header Section

191

General Information

1. Surveyed By (1,2) <i>Beap</i>	2. Certificate Number (1,2)	3. Reviewed By	4. Reviewer Certificate No.
5. Owner	6. Customer	7. P/O Number	8. Work Order
9. Media Label	10. Project	11. Date (1,2) YYYYMM <i>26</i>	12. Time
13. Sheet Number (1,2)	14. Weather	15. Pre-Cleaning (2) <i>N</i>	16. Date Cleaned YYYYMMDD
17. Purpose of Survey (1,2) <i>I</i>	18. Inspection Level (1,2) <i>2</i>	19. Inspection Status (1,2) <i>R</i>	20. Consequence of Failure

Location

21. Drainage Area	22. MH/Access Point No. (1,2) <i>RSB-11665</i>	23. Street (1,2) <i>Winthrop St</i>	24. City (1,2) <i>Waltham</i>
25. Location Code (2) <i>B</i>	26. Surface Type (2) <i>Pavement</i>	27. Inflow Potential from Runoff	
28. Location Details			

Manhole

29. MH Use (2) <i>SB</i>	30. Access Type (1,2) <i>AMH</i>	31. Year Constructed YYYY	
32. Year Renewed YYYY		33. Evidence of Surcharge (2) <i>N</i>	

Measurements

34. Rim to Invert (2) <i>6</i>	35. Rim to Grade (2) <i>0</i>	36. Grade to Invert (2) <i>6</i>	37. Rim to Grade Exposed
38. Northing*	39. Easting*	40. Elevation**	41. Coordinate System*
42. Vertical Datum**		43. GPS Accuracy	

44. Additional Information

- * Information required if Northing, Easting or Coordinate System data is recorded.
- ** Information required if Elevation or Vertical Datum data is recorded.



WRc

MACP Inspection Form Manhole Component Observation Section

Cover

45. Type (2) Solid	46. Shape (2) C	47. Size (2) 24	48. Center Cover Size	49. Size Width (2) 24
50. Cover Material (2) CAS	51. Hole Diameter (Vent) (2) N/A	52. Hole Number (2) N/A	53. Bearing Surface Diameter (2)	
54. Bearing Surface Width (2)	55. Cover/Frame Fit (2) (GRI)	56. Cover Condition (1,2) (GOOD)		

Cover Insert

57. Insert Type (2) N/A	58. Cover Insert Condition (2)
----------------------------	--------------------------------

Cover Adjustment Ring

59. Ring Type (2) N/A	60. Ring Material (2)	61. Ring Condition (1,2)	62. Ring Height
--------------------------	-----------------------	--------------------------	-----------------

Frame

63. Frame Material (2) CAS	64. Bearing Surface Width (2) 1	65. Bearing Surface Depth (2) 1	66. Clear Opening Diam (2) 22
67. Clear Opening Width (2) 22	68. Frame Condition (1,2) (GOOD)	69. Seal Condition (2) (GOOD)	70. Offset Distance (2) Ø
71. Seal Inflow (2) N/A	72. Frame Depth		

Chimney

73. Chimney Present (2) YES	74. First Material (2) BR	75. Second Material	76. Chimney I/I	77. Clear Opening
78. Chimney Depth (2) 1	79. Lining Interior	80. Lining Exterior	81. Chimney Condition (1) (GOOD)	

Cone

82. Type (2) N/A	83. Material (2)	84. Depth (2)	85. Lining Interior	86. Lining Exterior	87. Cone Condition (1)
---------------------	------------------	---------------	---------------------	---------------------	------------------------

Wall

88. Wall Diameter (Length)	89. Wall by Size (Width)	90. Material (2) BR	91. Depth (2) 5.5
92. Wall Lining Interior	93. Wall Lining Exterior	94. Wall Condition (1) (GOOD)	

Bench

95. Bench Present (2) YES	96. Bench Material (2) BR	97. Bench Lining	98. Bench Condition (1) (GOOD)
------------------------------	------------------------------	------------------	-----------------------------------

Channel

99. Channel Installed (2) YES	100. Channel Material (2) BR	101. Type (2) Formed	102. Exposure (2) OPEN	103. Channel Condition (1) (GOOD)
----------------------------------	---------------------------------	-------------------------	---------------------------	--------------------------------------

Steps

104. Number (2) 3	105. Material (2) BR
----------------------	-------------------------

Additional Component Information

106. Additional Component Information

Pipe Connections

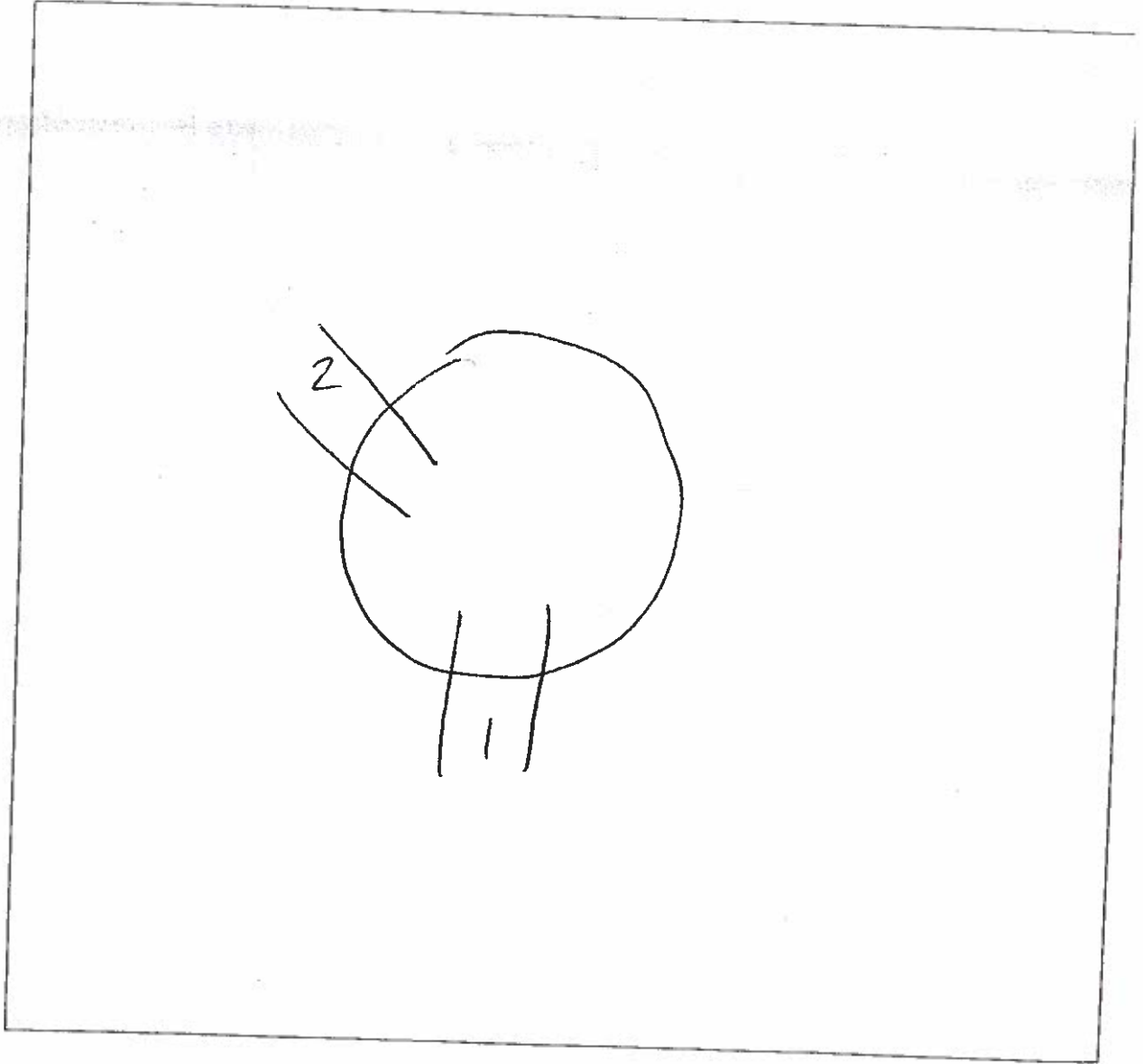
107. Pipe No (2)	108. Clock Pos (2)	109. Rim to Invert (2)	110. Direction (2)	111. Material (2)	112. Shape (2)	113. Height (Diam) (2)	114. Width (2)	115. Cond (2)	116. Seal Cond (2)	117. Pipe Type (2)	118. Struct ID	119. Comment
1	6	6	OUT	VCP	MC	5	6	GOOD		CR		
2	1	4	IN	VCP	C	3		GOOD		LB		

1 = Mandatory Level 1 Inspection Required, 2 = Mandatory Level 2 Inspection Required



WRc

Sketch



MACP7 Survey of R58_07640

Sheet No	32	Surveyed By	BOP	Certificate #	XXXX	Reviewed By	
Owner		Customer		Certificate #			
P.O. No		Work Order		Media Label		Project	
Date	2017/05/03	Time	12:34	Weather		Pre-Cleaning	No Pre-Cleaning
Purpose	Sewer System Evaluation Survi	Inspection Level	Level 2	Inspection Status	Remote Inspection	Date Cleaned	
Drainage Area		Street	Winthrop	City	Waltham	CoF	
Location Code	Secondary Roads	Inflow Potential from Runoff					
Manhole Surface Types	Asphalt						
Location Details							
MH Use	Sanitary	Access Type	Manhole	Year Constructed		Year Renewed	
Evidence of Surcharge	No						
Rim to Invert	6.8 ft.	Grade to Invert	6.8 ft.	Rim to Grade	0.0 ft.	Rim to Grade Exposed	
Northing		Easting		Elevation		Accuracy of GPS	
Coordinate System		Vertical Datum					
Additional Information							

Cover	Cover Type	Solid					
	Cover Shape	Circular	Cover Size	26.0 in.	Center Cover Size	Size Width	
	Cover Material	Cast Iron	Vent Hole Diameter		# Vent Holes		
	Bearing Surface Diamter	26.0 in.	Bearing Surface Diamter Width		Cover Frame Fit	Good	
	Cover Condition	Sound					

Cover Insert	Cover Insert Type	None					
	Cover Insert Condition						

Adj. Ring	Ring Type	None	Ring Material		Ring Height		
	Ring Condition						

Frame	Frame Material	Cast Iron	Bearing Surface Width	1.5 in.	Bearing Surface Depth	1.5 in.	
	Clear Opening Diameter	23.0 in.	Clear Opening Width				
	Frame Condition	Sound					
	Seal Condition	Sound					
	Offset Distance	0 in.	Frame Seal Inflow	Weeper	Frame Depth		

Chimney	Chimney Present	Yes	1st Material	Brick	2nd Material		
	Chimney I/I		Clear Opening		Chimney Depth	3.7 ft.	
	Lining Interior		Lining Exterior		Chimney Condition		

Cone	Type	Not Present	Material		Depth		
	Lining Interior		Lining Exterior		Cone Condition		

Wall	Wall Diameter		Wall By Size		Wall Material	Brick	
	Wall Depth	6.8 ft.	Lining Interior		Lining Exterior		
	Wall Condition						

Bench	Bench Present	Yes	Bench Material	Not Known			
	Bench Lining		Bench Condition				

Channel/Step	Channel Installed	No	Channel Material		Channel Type		
	Channel Exposure		Channel Condition				
	# Steps	0	Step Material				



MACP7 Survey of R58_07640

Sheet No 32	Date 2017/05/03	P.O. No
Street Winthrop		Inspection Level Level 2
City Waltham		Inspection Status Remote Inspection

Pipe Connections

Num	Clk Pos	Rim to Invert	Direc	Material	Shape	Height	Width	Pipe Cond	Seal Cond	Pipe Type	PSR
1	6	6.8 ft.	Out	VCP	C	8 in.		S	S	GR	
Comments											
2	11	4.1 ft.	In	PVC	C	8 in.		S	S	LB	
Comments											
3	11	6.8 ft.	In	PVC	C	8 in.		S	S	LB	
Comments											

Observations

Distance	Vid Ref	Comp	Code	CD	Jnt	Stp %	Val1	Val2	Fr	To	ImRef
1.2 ft.		COI	MMS						12	12	
Remarks											
6.8 ft.		B	DSC			100			12	12	
Remarks											

Scores	Structural:	Pipe Rating 6	Pipe Ratings Index 1.2	Quick Rating 2114
	O&M:	Pipe Rating 10	Pipe Ratings Index 1.4	Quick Rating 3121
	Overall:	Pipe Rating 16	Pipe Ratings Index 2.6	Quick Rating 3122



PipeLogix Inc.
 Phone: 866-299-3150
 Fax: 760-406-6023

MACP7 Survey of R58_11660

Sheet No	62	Surveyed By	BOP	Certificate #	XXXX	Reviewed By	
Owner		Customer		Certificate #			
P.O. No		Work Order		Media Label		Project	
Date	2017/05/02	Time	14:27	Weather		Pre-Cleaning	No Pre-Cleaning
Purpose	Sewer System Evaluation Survi	Inspection Level	Level 2	Inspection Status	Remote Inspection	Date Cleaned	
Drainage Area		Street	Cabot st	City	waltham	CoF	
Location Code	Secondary Roads	Inflow Potential from Runoff					
Manhole Surface Types	Asphalt						
Location Details							
MH Use	Sanitary	Access Type	Manhole	Year Constructed		Year Renewed	
Evidence of Surcharge	No						
Rim to Invert	9.3 ft.	Grade to Invert	9.3 ft.	Rim to Grade	0.0 ft.	Rim to Grade Exposed	
Northing		Easting		Elevation		Accuracy of GPS	
Coordinate System		Vertical Datum					
Additional Information							

Cover	Cover Type	Solid					
	Cover Shape	Circular	Cover Size	24.0 in.	Center Cover Size	Size Width	
	Cover Material	Cast Iron	Vent Hole Diameter		# Vent Holes		
	Bearing Surface Diamter	24.0 in.	Bearing Surface Diamter Width		Cover Frame Fit	Good	
	Cover Condition	Sound					

Cover Insert	Cover Insert Type	None					
	Cover Insert Condition						

Adj. Ring	Ring Type	None	Ring Material		Ring Height		
	Ring Condition						

Frame	Frame Material	Cast Iron	Bearing Surface Width	1.0 in.	Bearing Surface Depth	1.5 in.	
	Clear Opening Diameter	22.0 in.	Clear Opening Width				
	Frame Condition	Sound					
	Seal Condition	Sound					
	Offset Distance	0 in.	Frame Seal Inflow	Weeper	Frame Depth		

Chimney	Chimney Present	Yes	1st Material	Brick	2nd Material		
	Chimney I/I		Clear Opening		Chimney Depth	3.4 ft.	
	Lining Interior		Lining Exterior		Chimney Condition		

Cone	Type	Not Present	Material		Depth		
	Lining Interior		Lining Exterior		Cone Condition		

Wall	Wall Diameter		Wall By Size		Wall Material	Brick	
	Wall Depth	9.1 ft.	Lining Interior		Lining Exterior		
	Wall Condition						

Bench	Bench Present	Yes	Bench Material	Brick			
	Bench Lining		Bench Condition				

Channel/Step	Channel Installed	Yes	Channel Material	Brick	Channel Type	Formed	
	Channel Exposure	Fully Open	Channel Condition				
	# Steps	4	Step Material	Brick			



MACP7 Survey of R58_11660

Sheet No	62	Date	2017/05/02	P.O. No	
Street	Cabot st			Inspection Level	Level 2
City	waltham			Inspection Status	Remote Inspection

Pipe Connections

Num	Clk Pos	Rim to Invert	Dirac	Material	Shape	Height	Width	Pipe Cond	Seal Cond	Pipe Type	PSR
1	6	9.3 ft.	Out	VCP	C	8 in.		S	S	GR	
	Comments										
2	11	9.3 ft.	In	VCP	C	8 in.		S	S	GR	
	Comments										
3	2	6.8 ft.	In	VCP	C	8 in.		S	S	GR	
	Comments										
4	5	6.2 ft.	In	VCP	C	10 in.		S	S	GR	
	Comments										

Observations

Distance	Vid Ref	Comp	Code	CD	Jnt	Stp	%	Val1	Val2	Fr	To	ImRef
0.9 ft.		COI	IWJ		J					5	8	
	Remarks											
9.1 ft.		B	DSF				80			12	12	
	Remarks											

Scores	Structural:	Pipe Rating	4	Pipe Ratings Index	1	Quick Rating	1400
	O&M:	Pipe Rating	13	Pipe Ratings Index	1.4	Quick Rating	3122
	Overall:	Pipe Rating	17	Pipe Ratings Index	2.4	Quick Rating	3122



PipeLogix Inc.
 Phone: 866-299-3150
 Fax: 760-406-6023