

TREE BOX FILTER LOCATION T								
Description	Rim	Inlet Apron at Gutter	Invert In Elev.	Invert Out Elev.	Top of Storage Elev.	Bottom of Storage Elev.	Ground Surface (Range in Elevation)	Overflow Weir Elevation
T-0	EX. Catch Basin		(T-1)					
T-1	4'-0" dia. Catch Basin		(RD)	(T-O)				
New Storm Drain	Pipe Diameter (in.)	Length (ft)	Slope (ft/ft)	Grade Difference (ft)	Notes			
T-1 to T-0	4	8	0.0163	0.130				
RD to T-1	12	11	0.0100	0.110				
NOTES:								
1								
2								
3								

TREE BOX FILTER LOCATION V								
Description	Rim	Inlet Apron at Gutter	Invert In Elev.	Invert Out Elev.	Top of Storage Elev.	Bottom of Storage Elev.	Ground Surface (Range in Elevation)	Overflow Weir Elevation
V-1	4'-0" dia. Catch Basin			(V-2)				
V-2	5'-0" dia. Manhole		(O-1) (V-1)					
V-3	4'-0" dia. Catch Basin			(V-4)				
V-4	Manhole		(V-3)					
New Storm Drain	Pipe Diameter (in.)	Length (ft)	Slope (ft/ft)	Grade Difference (ft)	Notes			
V-1 to V-2	4	8	0.0163	0.130				
V-3 to V-4	12	11	0.0100	0.110				
NOTES:								
1	V-2 requires removal of existing structure and replacing with new 5'-0" dia. Manhole. Test pit required on waterline.							
2	V-4 will be installed on existing 18" storm drain; test pit required to verify invert elevation.							
3								

Roof Drain Connections from the Noyes Building								
Station	Offset	Invert at Elbow	Size (in.)	Length (ft>	Slope (ft./ft.)	Connection Location	Invert at Connection	Notes
3+13+/-	24 ft. +/- right	6.80	12	17	0.0200	Manhole R-5	6.44	Use rigid insulation above the pipe, and install using induced trench through the lightweight fill.
4+19+/-	24 ft. +/- right	6.26	12	13	0.0200	Manhole L-5 (downstream side)	6	Use 45 degree elbow at connection to L-5; use induced trench.
4+86+/-	24 ft. +/- right	3.91	12	42	0.0050	Existing CB	3.8	Install before lightweight concrete is placed.
6+37+/-	24 ft. +/- right	5.96	12	8	0.0200	New Manhole O-7	5.88	New manhole O-7 at 6+35.5; 13 feet right, install using induced trench. Test pit water service to make sure the storm line will clear the existing water service.
7+28+/-	24 ft. +/- right	5.28	12	14	0.0200	Manhole O-1	5	Install using induced trench; may need field adjustment to clear other utilities.

Note New Manhole O-7: Invert in is 5.88; invert out is 5.78, run 28 feet of 12 inch pipe and connect to manhole O-6 at invert 5.50.

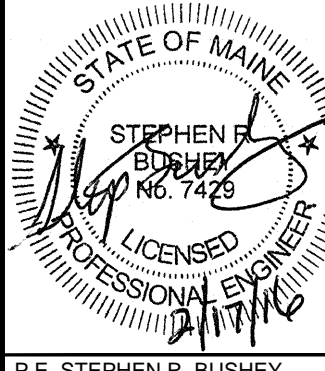

THE PROPOSED STORM DRAIN SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PORTLAND TECHNICAL STANDARDS USING ONE OF THE FOLLOWING PIPE MATERIALS:

- REINFORCED CONCRETE PIPE (RCP) WITH A MINIMUM STRENGTH OF CLASS III
- PVC RING TYPE SEWER PIPE (SDR 35 OR EQUIVALENT, MINIMUM PS-46 RATING)
- P.V.C. RING TYPE SEWER PIPE MEETING ASTM F 789 OR EQUAL TO SDR 35
- DUCTILE IRON PIPE (DIP)
- ADS N-12 HP TRIPLE-WALL PIPE MEETING A MINIMUM PS-46
- ADS SANITITE HP MEETING A MINIMUM PS-46

ALL JOINTS SHALL BE WATERTIGHT (SILT TIGHT JOINTS ARE NOT PERMITTED. CONTRACTORS SHALL REFER TO THE TECHNICAL SPECIFICATIONS FOR THE PROJECT FOR ADDITIONAL INFORMATION INCLUDING ANY SPECIAL PIPE CLASSES.

ANY PIPELINE WITH LESS THAN 2 FEET OF COVER SHALL BE DUCTILE IRON PIPE

PRELIMINARY - NOT FOR CONSTRUCTION

					PROJECT midtown PORTLAND, MAINE	 FAY, SPOFFORD & THORNDIKE ENGINEERS • PLANNERS • SCIENTISTS 778 MAIN ST., SUITE 8, SOUTH PORTLAND, ME 04106
			SHEET TITLE PROPOSED STORM DRAIN SCHEDULES		DRAWN: LA DATE: OCTOBER 2014 DESIGNED: BEK SCALE: N.T.S. CHECKED: SRB JOB NO. 195350127 FILE NAME: 3062-GRADE SCHED	
2	02.17.16	FINAL SITE PLANS WITH CONDITIONS OF APPROVAL	P.E. STEPHEN R. BUSHEY LIC. # 7425		CLIENT FEDEQ DV001, LLC	SHEET C-3.14
1	11.14.14	FINAL LEVEL III SUBMISSION TO CITY OF PORTLAND				
REV	DATE	DESCRIPTION	REVISIONS			