

DRAINAGE SCHEDULE FOR "A" table with columns: Description, Rim or Surface, Invert In Elev., Invert Out Elev., Special Notes. Rows include Replace Existing Catch Basin, 4'-0" Dia. Manhole, 4'-0" Dia. Manhole, Underground Storage, Overflow Catch Basin, 5'-0" Dia. Outlet Control Manhole, Surge Storage, Flow Distribution Manifold, etc.

SYSTEM B DRAINAGE SCHEDULE table with columns: Description, Rim or Surface, Invert In Elev., Invert Out Elev., Special Notes. Rows include Building Roof Drain, Special Inlet for Depressed Filterra*, 4'-0" x 6'-0" Filterra* Tree Box Filter, Roof Drain Control Manhole, etc.

Table of pipe connections and elevations for System A, including entries for A-0 to A-1, A-2 to A-1, A-3 to A-2, A-4 to A-3, A-5 to A-3, A-6 to A-3, A-7 to A-6, A-8 to A-7, A-9 to A-6, A-10 to A-9, A-11 to A-9, A-12 to A-11, A-13 to A-12, A-13 to H-5, A-15 to A-21, A-16 to A-21, A-17 to A-1, A-20 to A-0, A-14 to A-21, A-18 to TEE, A-19 to TEE.

SYSTEM C DRAINAGE SCHEDULE table with columns: Description, Rim or Surface, Invert In Elev., Invert Out Elev., Special Notes. Rows include Building Roof Drain, Special Inlet for Depressed Filterra*, 4'-0" x 6'-0" Filterra* Tree Box Filter, Roof Drain Control Manhole, etc.

- Notes: 1 A test pit on the outlet pipes of all new connections to verify the invert is lower than the proposed elevation of the new incoming line. 2 Invert Elevations of existing storm drains are based upon a plan prepared for the City of Portland by SGC survey dated 10/30/08. 3 The underground storage tanks will have a top of prepared subgrade Elev. of 6.74 and a top of storage Elev. of 9.74. 4 Refer to Details on Drawing C-7.8 for boxless treatment filter. 5 The 18" pipe discharge line from the Federated Phase 1 area will require a backflow preventer installed inside of the manhole to avoid tidal backwater into the system. 6 The storm drain for A-16 may be teed into drainage downstream of A-10 to avoid the adverse angle for pipes entering A-14. 7 The bottom 6" of the 12" high surge storage is filled with crushed stone. Normal water level elevation is 8.82 (i.e. stone is below pool). 8 Drainage system requires scupper inlets or field inlets from abutting property line at A-18, A-19, and A-20. Abutting property owner to select inlet type from Options on Dwg. C-7.12.

Notes for System C: 1 A 6" underdrain shall be installed below the underground storage and connected to OCS C-5 on the downstream side of the wrier at Elev. 5.80. 2 The 4" Filterra* underdrain is to be installed level. 3 The prepare subgrade at the bottom of the underground storage unit is set at Elev. 6.30; the top is set at Elev. 8.30.

STORM TREAT LOCATION D table with columns: Description, Rim, Inlet Apron at Gutter, Invert In Elev., Invert Out Elev. Rows include Elm Street - Existing Catch Basin, Replace Existing 4'-0" Dia. Catch Basin, 6'-0" Dia. Manhole, 4'-0" Outlet Control Manhole, 4' x 6' Overflow Manhole (twin pipes), 5'-0" Splitter Manhole, Vortex Based Pretreatment, 4'-0" Dia. Catch Basin, 4'-0" Dia. Manhole, 4'-0" Dia. Catch Basin, STORMTREAT.

Notes for Storm Treat: 1 A test pit on the outlet pipe for the existing catch basin is required to verify the invert is lower than the proposed elevation of the new line. 2 Invert elevations of existing storm drains are based upon a plan prepared for the City of Portland by SGC survey dated 10/30/08. 3 The underground storage tanks will have a top of prepared subgrade elevation of 3.90, a top of storage elevation of 6.90 and a minimum surface elevation above the storage units of 9.10 (to provide 24 inches of cover). 4 The bottom of the StormTreat units is to be set at 2.98 with a top of lip elevation of 6.98 at the surface. The incoming pipe will be set at elevation 3.90 with the outlet elevation of 3.48. 5 The 15 inch pipe from the Federated Phase 3 area will require a backflow preventer installed inside of the manhole to avoid tidal backwater into the system. 6 Plants for the StormTreat™ units should have moderate tolerance for saline water. 7 Proposed sewer for Midtown 4 crosses the storm drain between the existing catch basin and catch basin D-0. Sewer invert 4.80+/-.

Table with 7 rows and 2 columns: Location (Elm Street - Existing Catch Basin, D-1 to D-0, D-2 to D-1, D-3 to D-2, D-4 to D-3, D-5 to D-4, D-6 to D-5, D-7 to D-6, D-9 to D-7, Field Inlet to D-9, D-7A to D-8) and Invert Out Elev. values.

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

Professional Engineer Seal: STATE OF MAINE, P.E. STEPHEN R. BUSHEY, No. 7429, LICENSED PROFESSIONAL ENGINEER.

Project Information: PROJECT: midtown PORTLAND, MAINE. SHEET TITLE: PROPOSED STORM DRAIN SCHEDULES. CLIENT: FEDEQU DV001, LLC.

Revision Table: REV, DATE, DESCRIPTION. 1 11.14.14 FINAL LEVEL III SUBMISSION TO CITY OF PORTLAND. 2 02.17.16 FINAL SITE PLANS WITH CONDITIONS OF APPROVAL. 3 04.25.16 FINAL SITE PLANS WITH CONDITIONS OF APPROVAL.