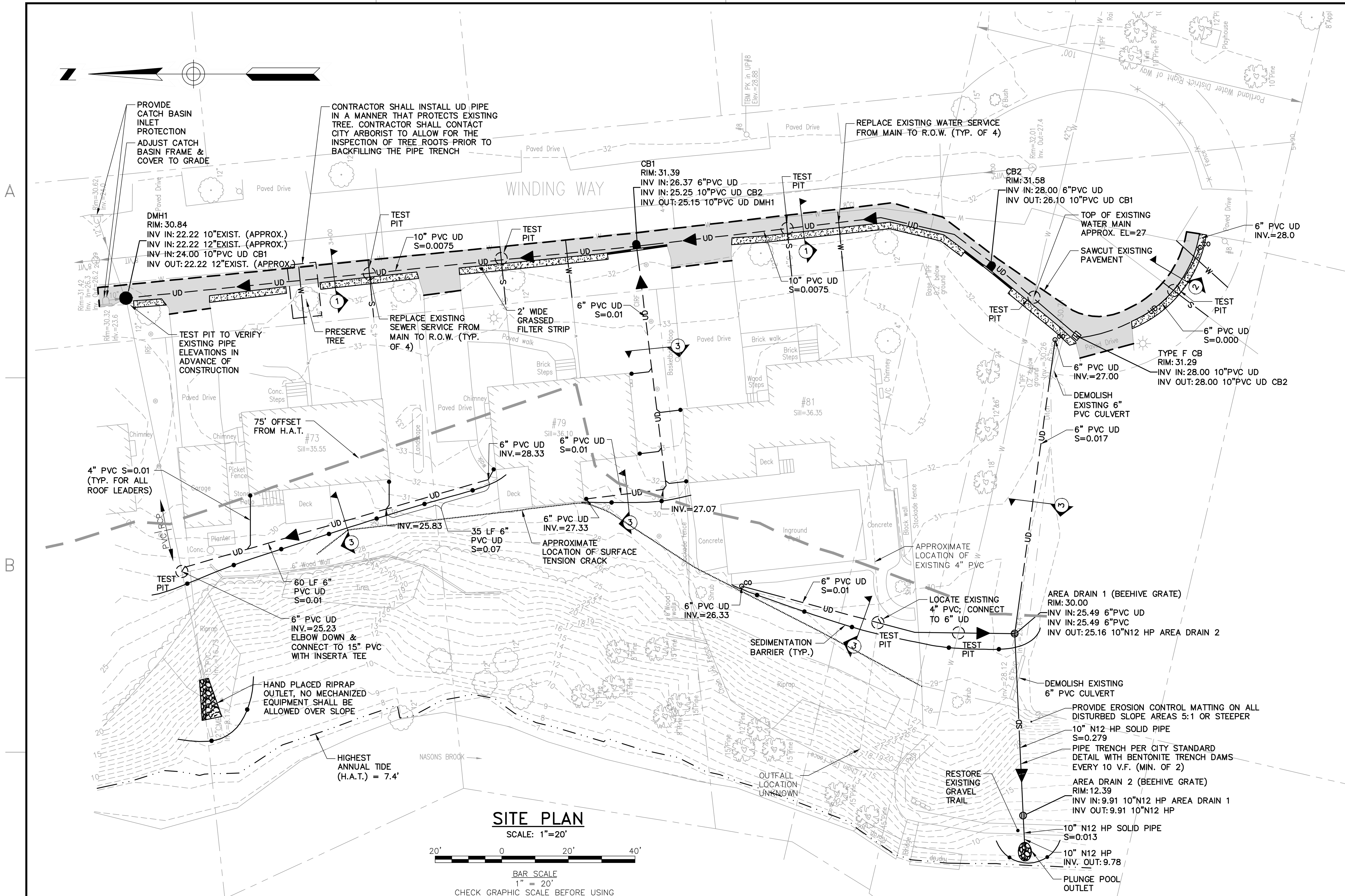


NOTES:

1. BASE PLAN INFORMATION DERIVED FROM GROUND-LEVEL TOPOGRAPHIC SURVEY PERFORMED BY OWEN-HASKELL IN DECEMBER 2011. VERTICAL DATUM IS REFERENCED TO CITY DATUM = NGVD +0.02'. HORIZONTAL DATUM REFERENCED TO NAD83 STATE PLANE MAINE WEST ZONE US FOOT.
2. PROPERTY LINES ARE APPROXIMATE AS SHOWN AND WERE DERIVED FROM CITY ASSESSOR GIS DATA.
3. ALL WORK ADJACENT TO COASTAL WETLAND SHALL TAKE PLACE DURING LOW TIDE CONDITIONS.
4. CONTRACTOR SHALL REFER TO NOAA "PREDICTED WATER LEVEL PLOT" FOR PORTLAND, MAINE (TIDESANDCURRENTS.NOAA.GOV) PRIOR TO BEGINNING CONSTRUCTION TO ENSURE CONSTRUCTION SCHEDULE COINCIDES WITH LOW TIDE CYCLES.
5. AFTER BACKFILL AND FINAL GRADING ARE COMPLETE, INSTALL EROSION CONTROL BLANKET, S150 DOUBLE NET STRAW BLANKET, MANUFACTURED BY NORTH AMERICAN GREEN, OR APPROVED EQUAL ON ALL DISTURBED SOIL AREAS OF 5:1 SLOPE OR STEEPER. SOIL PREPARATION AND BLANKET INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE 4" OF LOAM IN ALL NON-PAVED AREAS DISTURBED BY CONTRACTOR'S OPERATIONS.
   - SOD WITHIN WINDING WAY R.O.W. AS NOTED
   - SEED MIX IN LAWN AREAS – MDOT METHOD 1
   - SEED MIX IN NON-LAWN, NON-WETLAND AREAS – NEW ENGLAND CONSERVATION/ WILDLIFE MIX (1LB/ 1,000 S.F.)
7. THE UTILITY LOCATIONS SHOWN IN PLAN AND PROFILE ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION BY THE CONTRACTOR. CONTACT THE CITY IMMEDIATELY UPON DISCOVERING ANY CONFLICTS WITH EXISTING AND PROPOSED UTILITY LOCATIONS. NOT ALL EXISTING UTILITIES ARE SHOWN ON PLANS.
8. CONTRACTOR SHALL CLEAN AND/OR FLUSH ALL MANHOLES, CATCH BASINS, AND ASSOCIATED PIPING AFTER THE WORK HAS BEEN COMPLETED.
9. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES AND CITY. CONTACTS ARE LISTED IN SPECIFICATIONS. NOTIFY UTILITY COMPANIES WITHIN 48 HOURS OF WORK ACTIVITY ADJACENT TO THOSE UTILITIES.
10. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT "DIG SAFE", TELEPHONE 888-344-7233, PRIOR TO EXCAVATION
11. ALL TREES NOT NOTED TO BE REMOVED OR RELOCATED SHALL BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION.
12. COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LANDOWNERS AT LEAST TWO DAYS (48 HOURS) PRIOR TO DISRUPTION. ALL UTILITY COORDINATION IS RESPONSIBILITY OF CONTRACTOR.
13. RESTRICT ACCESS TO SITE THROUGH THE USE OF APPROPRIATE SIGNAGE, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. SITE SAFETY IS THE RESPONSIBILITY OF CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
14. CONTRACTOR SHALL OBTAIN A CITY STREET OPENING PERMIT BEFORE BEGINNING CONSTRUCTION. THE FEE FOR THIS PERMIT WILL BE WAIVED BY THE CITY. THE CONTRACTOR WILL ALSO BE REQUIRED TO HAVE A CURRENT EXCAVATOR'S LICENSE IN THE CITY. THE EXCAVATOR'S LICENSE FEE WILL NOT BE WAIVED BY THE CITY.
15. THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "RECORD" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO THE SANITARY SEWER SYSTEM, STORM SEWER SYSTEM AND ANY OTHER UTILITY INSTALLATIONS OR ALTERATIONS WITHIN THE PROJECT LIMITS BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT AS DEFINED IN THE SPECIFICATIONS PRIOR TO PAYMENT OF FINAL RETAINAGE.
16. CAPPED PIPE STUB LOCATIONS SHALL BE MARKED WITH EMBEDDED STAKE AND A MINIMUM OF THREE TIES SHOULD BE RECORDED. EMBEDDED STAKE SHALL BE 2x4 WITH PK NAIL DRIVEN IN TOP, LENGTH AS REQUIRED TO SPAN FROM TOP OF PIPE TO 6" BELOW GRADE LOCATION AND ELEVATION OF PIPE STUB SHALL BE PROVIDED TO THE CITY OF PORTLAND ENGINEERING OFFICE. WARNING TAPE AND WIRE SHALL BE INSTALLED OVER PIPE STUBS IN ACCORDANCE WITH SPECIFICATIONS.

SOD NOTES:

SOD SHALL BE A FINE FESCUE AND GROWN IN A SAND BASE.

THE CONTRACTOR SHALL WATER THE SOD FREQUENTLY AND SHALL INSURE CONTINUED GROWTH OF THE SOD. SOD SHALL RECEIVE WATER DAILY, EITHER BY MEANS OF APPLIED WATERING OR PRECIPITATION (RAINFALL OF 0.25"/DAY OR GREATER) FOR A MINIMUM OF THREE WEEKS FROM INSTALLATION. SOD NOT SURVIVING FOR 3 MONTHS AFTER INSTALLATION SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

SOD SHALL NOT BE PLACED PRIOR TO MAY 1ST OR AFTER OCTOBER 1ST OF ANY YEAR.

LOAM NOTES:

THE CONTRACTOR SHALL SUBMIT LOAM TESTING RESULTS IN CONFORMANCE WITH SECTION 615, MAINEDOT STANDARD SPECIFICATIONS. LOAM DEPTHS SHALL BE 4" IN AREAS OF SOD (WITH THE EXCEPTION OF THE SOIL FILTER SURFACE) AND 6" IN ALL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS.

SOIL FILTER NOTES:

SOIL FILTER MATERIAL SHALL BE A LOAMY SAND SOIL COMBINED WITH 30% BY VOLUME OF MODERATELY FINE, WOOD FIBER OR BARK MULCH. THE RESULTING MIXTURE SHALL HAVE NO LESS THAN 10% PASSING THE 200 SIEVE. SOIL FILTER MEDIA SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES. SUBCOMPONENTS OF THE SOIL FILTER MEDIA INCLUDE:

LOAMY SAND SHALL CONSIST OF NATIVE LOAMY SAND (AS DEFINED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE) THAT CONTAINS NO LESS THAN 10% PASSING THE #200 SIEVE AND BETWEEN 2-5% CLAY AS DETERMINED THROUGH SOIL TEXTURAL ANALYSIS.

WOOD FIBER MULCH SHALL CONSIST OF A MODERATELY FINE, WELL COMPOSTED HARDWOOD BARK FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH MULCH. THE MULCH SHALL HAVE 100% PASSING A 1" SCREEN.

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN THAT OUTLINES THE OVERALL WORK IN RELATION TO THE CONSTRUCTION OF THE SOIL FILTER SYSTEMS, SPECIFICALLY CONSIDERING SITE STABILIZATION, SOIL FILTER INSTALLATION, AND SOD PLACEMENT IN AND AROUND THE FILTER SYSTEMS. THE SOIL FILTER MEDIA MUST NOT BE INSTALLED UNTIL THE ENTIRE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT, VEGETATION, EROSION CONTROL MATTING, OR OTHER STRUCTURES UNLESS THE RUNOFF IS DIVERTED AROUND THE FILTER OR UNLESS THE FILTER IS COMPLETELY WRAPPED AND PROTECTED BY A NON-WOVEN GEOTEXTILE LINER WHICH CAN BE REMOVED FROM THE SURFACE PRIOR TO FINAL SODDING.

THE AREA THAT DRAINS TO THE SOIL FILTER SHALL BE KEPT STABLE, AVOIDING EROSION AND DEPOSITION OF SEDIMENTS INTO THE STORMWATER MANAGEMENT SYSTEM. ABSOLUTELY NO RUNOFF IS TO ENTER THE FILTER UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN SUFFICIENTLY STABILIZED.

ADDITIONAL SURFACE LOAM MAY BE UTILIZED TO PROMOTE SOD SURVIVAL. LOAM SHALL CONSIST OF NO MORE THAN ½ DEPTH OF NATIVE SANDY LOAM LIGHTLY RAKED INTO THE SOIL FILTER SURFACE.

THE FOLLOWING MATERIAL SHALL BE SUBMITTED:

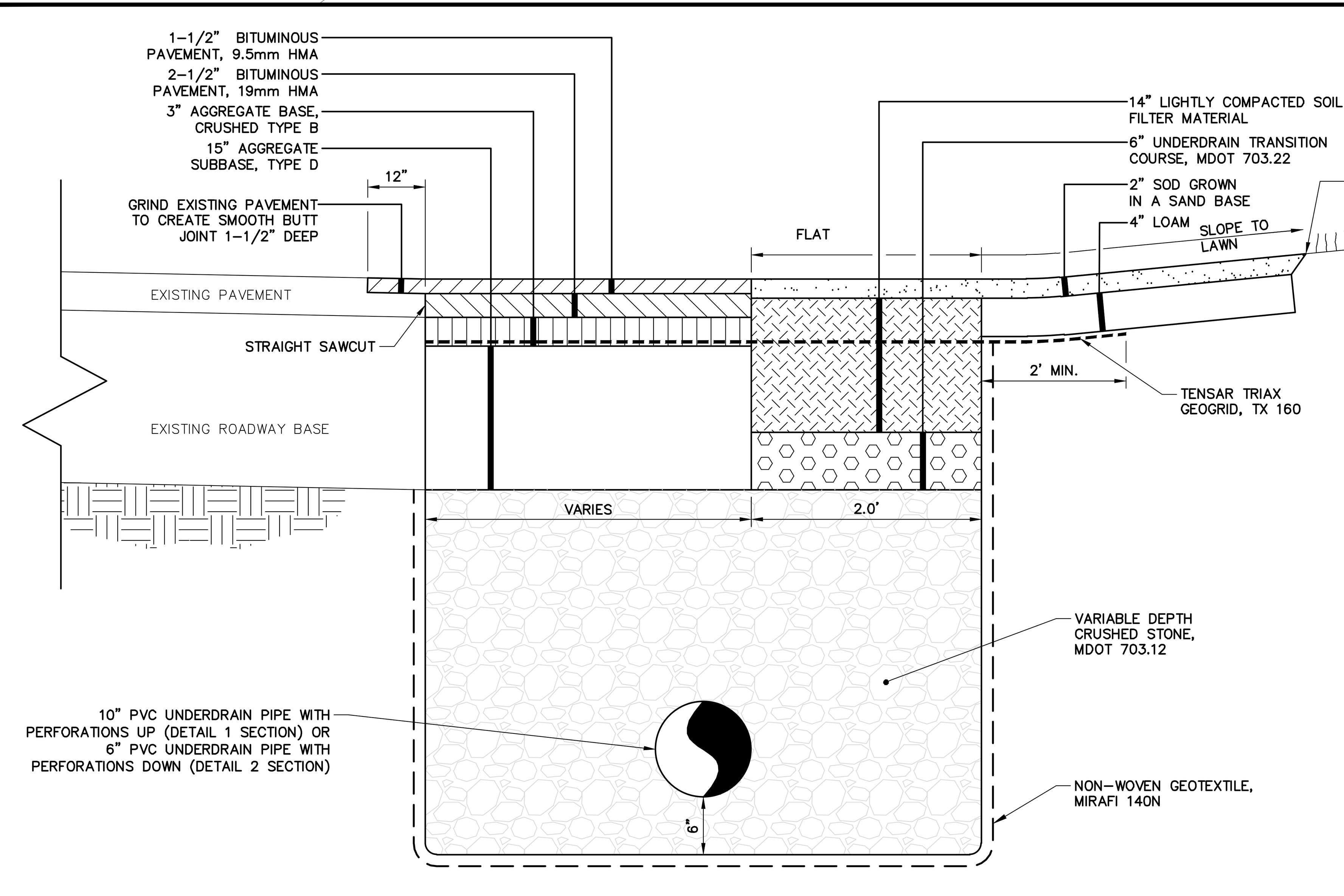
SOIL FILTER MEDIA

LOAMY SAND

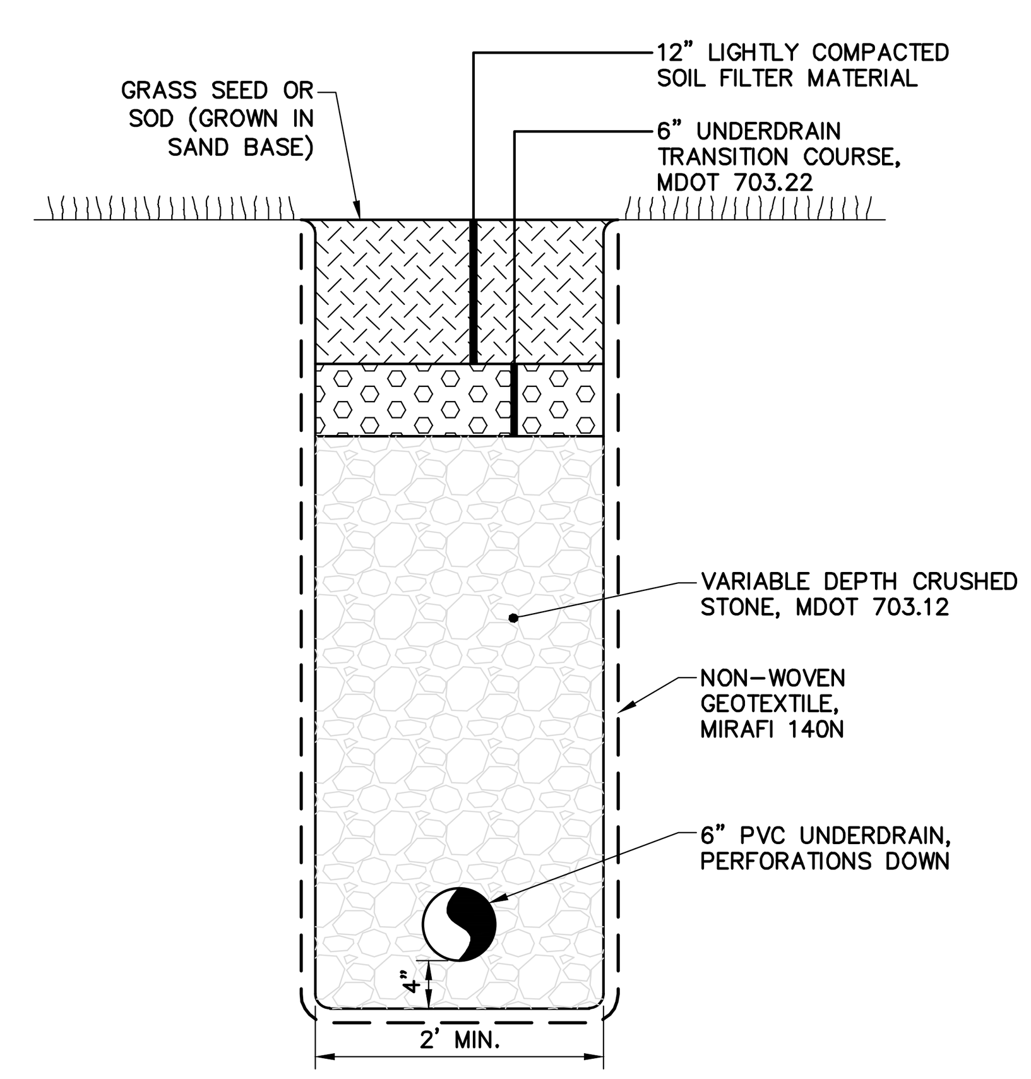
SUBMIT 5 LBS. SAMPLE OF EACH TYPE OF MATERIAL IN AIR TIGHT CONTAINER TO PROJECT ENGINEER.

CONTRACTOR SHALL PERFORM A SIEVE ANALYSIS IN CONFORMANCE WITH ASTM C136 – STANDARD TEST METHOD FOR SIEVE ANALYSIS AND ASTM C117 – STANDARD TEST METHOD FOR MATERIALS FINER THAN 75μM ON EACH TYPE OF MATERIAL AND SUBMIT RESULTS TO PROJECT ENGINEER.

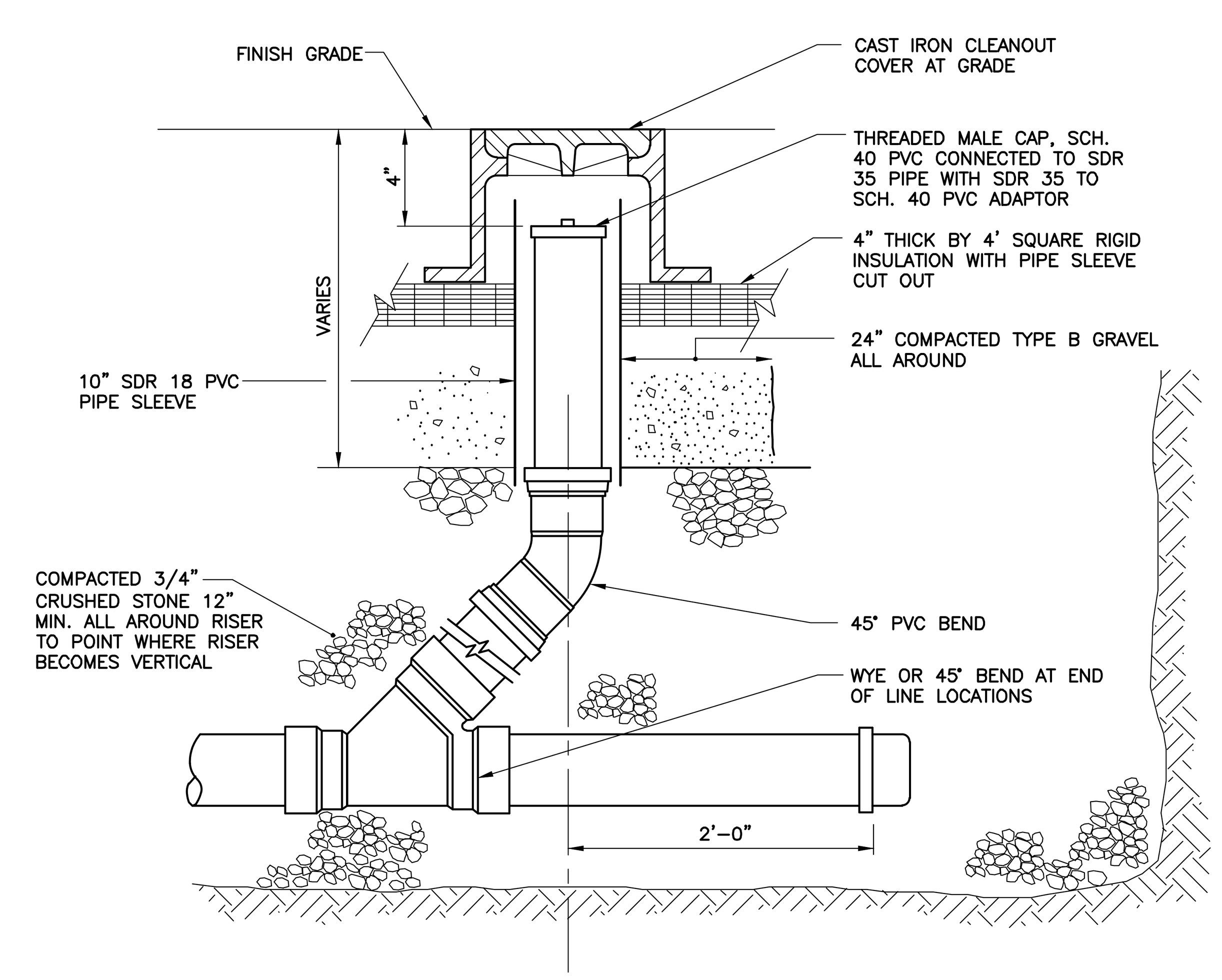
CONTRACTOR SHALL PERFORM A SOIL TEXTURAL ANALYSIS FOR LOAMY SAND IN CONFORMANCE WITH ASTM D422 – STANDARD TEST METHOD FOR PARTICLE-SIZE ANALYSIS OF SOILS AND SUBMIT RESULTS TO PROJECT ENGINEER.



DETAIL SECTION 1 (10" PVC UD, PERF. UP) &
DETAIL SECTION 2 (6" PVC UD, PERF. DOWN)
N.T.S.



DETAIL SECTION 3
N.T.S.



CLEANOUT DETAIL
N.T.S.

LEGEND

- PERFORATED UNDERDRAIN PIPE & DIRECTION OF FLOW
- APPROXIMATE LOCATION OF SURFACE TENSION CRACK
- 4" SOLID PVC PIPE FROM ROOF LEADER TO UNDERDRAIN
- CLEAN-OUT
- PAVEMENT RECONSTRUCTION WITH SAWCUT
- HIGHEST ANNUAL TIDE LINE (H.A.T.), FORE RIVER (MAINE DEP 2012)
- 75' OFFSET FROM H.A.T.
- SEDIMENTATION BARRIER

WOODARD & CURRAN
41 Hutchins Drive
Portland, Maine 04102
800.426.4262 | www.woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

STATE OF MAINE – DAVID ... – REGISTERED PROFESSIONAL ENGINEER – JUNE 19, 2012

REV	DATE	DESCRIPTION

DESIGNED BY: DAS | CHECKED BY: DAS | DRAWN BY: BCM | 222804.85 C0A.DWG

SITE PLAN

CITY OF PORTLAND
PORTLAND, MAINE

WINDING WAY
DRAINAGE IMPROVEMENTS

JOB NO.:	222804.85
DATE:	JUNE 2012
SCALE:	AS NOTED
SHEET:	1 OF 3

C-01

24x36 SHEET 1:1