

SITE FILL MATERIALS

Foundation Fill Materials:

A. Structural Fill:
Structural fill shall be used for the following purposes:
1. To provide a minimum 12 inch base below the building floor slab.
2. To backfill interior footings and over excavated wall and interior footing excavations.

This material shall meet the following gradations:

Sieve Size	Percent Passing
6 inch	100
3 inch	70-100
No. 4	35-70
No. 40	5-35
No. 200	0-5

Structural fill shall consist of a well graded gravelly sand to sandy gravel. It shall be free of organic material, loam, trash, snow, ice, frozen soil or other deleterious material and conform to the gradation indicated in the table above. Boulders of greater than the placed lift thickness shall be removed prior to compaction.

Structural fill shall be placed in layers not exceeding 12 in. (loose measure) and compacted with heavy operator-driven compaction equipment and in 6 in. layers if utilizing hand guided or small remote controlled vibratory equipment. Lift thickness may require to be reduced if difficulty in achieving the required compaction.

Structural fill shall be compacted at approximately optimum moisture content (plus 1 to minus 2 percent) to 95 percent of maximum dry density as determined by ASTM D1557 (modified density).

B. Granular Borrow:

Granular borrow or structural fill may be used as a backfill material as follows:

1. For backfilling exterior footings, foundation and frost walls and retaining wall excavations.
2. For raising building interior site grades to subbase grade; frost free backfill to subbase below access drives and parking area pavement.

Granular borrow shall consist of sand or gravel of hard durable particles free from vegetable matter, lumps or balls of clay and other deleterious substances. The gradation of that portion passing a 3 inch sieve shall meet the following gradation requirements:

Sieve Size	Percent Passing
No. 40	0-70
No. 200	0-20

Surface tolerance of 3/8in., above or below the required cross sectional shape shall be maintained.

General Site Fill Materials:

Common Borrow:
Common borrow may be used as a non-building site fill material to raise site grades to sub-base level. This material and installation shall follow the Maine Department of Transportation Specifications Revision of 1995. The utilization of this material is subject to the review of the Engineer prior to its use.

Dig Safe/Utility Locations

The Sheridan Corporation has made a diligent effort to ascertain the location of all underground utility facilities within the work zone of this project. The utility locations shown on the plans are for information purposes only and do not relieve the contractor / subcontractor from the requirements of the "Dig Safe" law and from locating and marking all underground utilities before commencement of work.

Those contractors / subcontractors responsible for site excavation and other below grade work, are charged with "Dig Safe" protocol. It is the sole responsibility of the contractor / subcontractor to notify DIG SAFE at 1-888-344-7233 at least 72 hours in advance, excluding Saturdays, Sundays and legal Maine holidays, but not more than 30 days in advance of commencement of excavation to field verify and mark all underground utility locations. Additionally, the contractor / subcontractor shall notify all remaining utility companies that are not members of "Dig Safe" to locate their facilities prior to commencement of excavation work.

The Sheridan Corporation shall not be held liable for the contractor / subcontractor's / Dig Safe location errors.

CONTRACTOR / SUBCONTRACTOR CONSTRUCTION RESPONSIBILITY NOTES:

- 1) ALL WORK WILL BE EXECUTED IN ACCORDANCE WITH THE LATEST CODES, REGULATIONS, TECHNICAL DESIGN STANDARDS AND GUIDELINES AS APPLICABLE TO THE APPROPRIATE GOVERNING AUTHORITY.
- 2) ALL UTILITY WORK WILL BE EXECUTED PER THE RULES AND/OR REGULATIONS OF THE APPROPRIATE GOVERNING AUTHORITY.
- 3) ALL SUBCONTRACTORS ARE RESPONSIBLE FOR OBTAINING ANY PERMITS NECESSARY FOR THEIR SCOPE OF WORK. THEY ARE ALSO RESPONSIBLE FOR SCHEDULING AND ATTENDING ALL INSPECTIONS OF WORK, AND SUPPLYING WRITTEN PROOF OF ACCEPTANCE OF WORK BY INSPECTOR.
- 4) ALL SANITARY SEWER, STORM SEWER, AND WATER CROSSINGS SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE STATE, CITY / TOWN OR DISTRICT STANDARDS.
- 5) CONTRACTORS / SUBCONTRACTORS ARE TO USE EXTREME CAUTION TO NOT DAMAGE UTILITIES. THIS IS THE SOLE RESPONSIBILITY OF EACH CONTRACTOR / OR SUBCONTRACTOR.

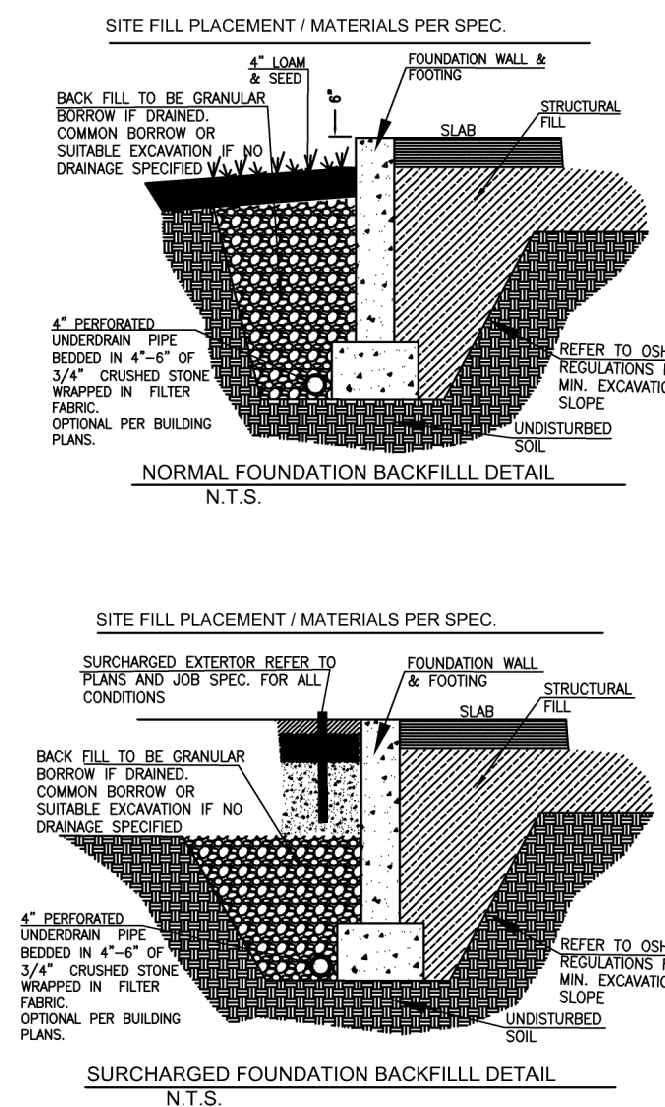
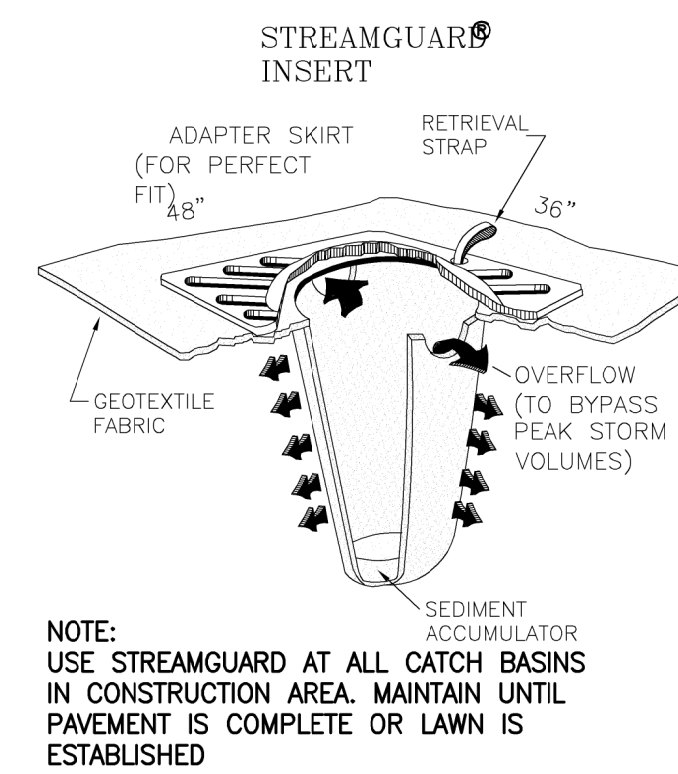
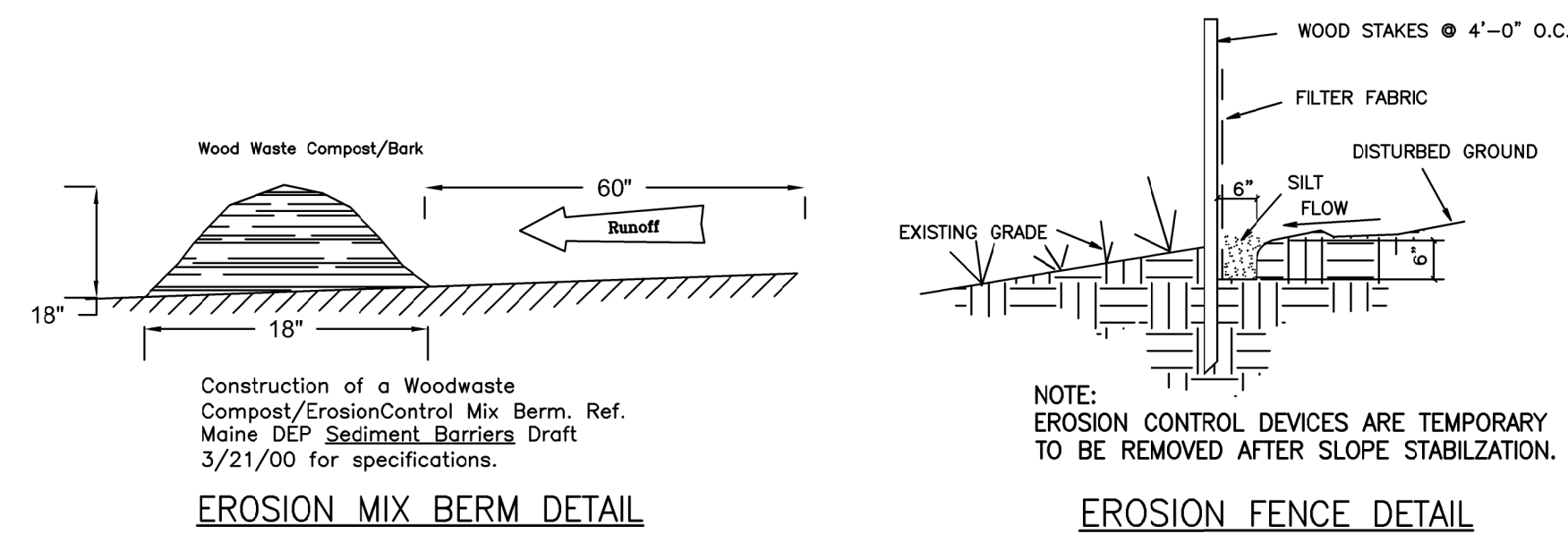
NOTE:
SUBSURFACE PREPARATION WILL ENTAIL THE REMOVAL OF TOPSOIL, ALL UNSUITABLE MATERIALS, STUMPS, TRASH, ETC. THEN IT WILL BE PROOF ROLLED. STRUCTURAL FILL PLACED IN 12" MAX. LIFTS AND COMPACTED TO 95% DRY DENSITY. THIS APPLIES TO ALL BUILDING PAVED AREAS. GRADING OF SUBGRADE WILL BE MINUS THE DEPTH OF ALL SUBBASE. BASE AND FINISH MATERIALS. WITH ALLOWABLE GRADE DEVIATION OF +/- 1/10 OF ONE FOOT.

ALL MATERIAL PLACEMENT, COMPACTION AND GRADING SHALL BE IN ACCORDANCE WITH MeDOT 2002 STANDARD SPECIFICATIONS. THE MAXIMUM DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T180, METHOD C OR D

Earthwork and General Construction Requirements:

Upon award of contract, the applicable contractor / subcontractor shall make all necessary construction notifications and apply for and obtain all necessary permits, pay all fees and post all bonds associated with the work indicated on the drawings and adhere to the following requirements:

1. Pre-construction safety: The contractor shall pre-mark the boundaries of the planned excavation with white paint, flags, or stakes, so utility crews know where to mark their lines: Call Dig-Safe toll free at 1-888-DIGSAFE, at least 3 business days, but no more than 30 calendar days before construction. At that time, be ready with all important information such as City/Town, Street/Road, location description, extent and type of work, contact person with phone number, and the contractors name with phone number. If blasting is needed, contact dig-safe at least three business days in advance.
2. Contractor / subcontractor shall install all erosion control measures prior to earthwork operation and maintain all erosion control measures and seeded embankments during construction. Erosion control shall be removed only upon the establishment of all landscaped areas. All work shall comply with the environmental quality handbook for erosion and sediment control, latest edition, as adopted by the Maine department of environmental protection.
3. See Engineering drawings for exact building dimensions and all details contiguous to the building, including sidewalks, ramps, building entrances, stairways, utility penetrations, concrete door pads, compactor pad, loading docks, bollards etc. All existing utilities are depicted in their most likely locations based on the best information available to this date. It is the sole responsibility of the contractor/subcontractor to verify locations and provide proposals based on verified information. The Sheridan Corporation is not liable for contractor/subcontractor's errors due to unverified facts.
4. Underground utilities are shown where records indicate. The possibility of other unknown utilities in any location is highly likely. All contractors are to use extreme caution so as to not damage these utilities. This is the sole responsibility of each contractor.
5. All subcontractors shall obtain and pay for any permits necessary for their scope of work. They are also responsible for scheduling and attending all inspections of work, and supplying written proof of acceptance of work by the governing inspectors and shall make all arrangements and pay any fees for necessary pole relocation; alteration or adjustment of gas, electric, telephone, fire alarm and any other private utilities by the utility companies.
6. The location, size, depth, and specifications for construction of proposed private utility services shall be installed according to the requirements provided by, and approved by the respective utility company (gas, telephone, electric, and fire alarm, etc.). The contractor shall field verify the location, size, inverts, and types of existing pipes at all proposed points of connection prior to ordering materials. Where an existing utility is found to conflict with the proposed work, the location, elevation, and size of the utility shall be accurately determined without delay by the contractor, and the information furnished in writing to the owner's representative for the resolution of the conflict. Final design loads and locations to be coordinated with owner and architect. All utility work will be executed per the rule and/or regulations of the appropriate governing authority.
7. Rim elevations of proposed drainage and sanitary sewer manholes and associated structures are approximate. Final elevations are to be set flush and consistent with the grading plans. Adjust all other rim elevations of manholes, water gates, gas gates and other utilities to finish grade within limits of work. Offsets to catch basins and manholes are to the center of the frame. Pipe lengths shown are measured from center-to-center distances between catch basins and/or manholes minus one-half the diameter of each catch basin or manhole.
8. All areas outside the limit of work that are disturbed shall be restored by the contractor to their original condition at the contractor's expense. All areas disturbed during construction not covered with buildings, structures, or pavement shall receive a minimum of 4 inches of loam, seed and binder mulch.
9. Boundary information on layout plan is for reference only; refer to appropriate plan if information required. All property "monumentation" disturbed during construction shall be reset to their original location by a Maine registered professional land surveyor (PLS) at the contractor's expense. The contractor shall prepare "Record Plan Survey" showing locations of all surface features and subsurface utility systems including the location type, size, and inverts
10. Contractor shall be solely responsible for site security and job safety. All construction activity shall be in accordance with OSHA standards and local requirements.
11. All materials and construction methods used for vehicle and pedestrian traffic and within the public right-of-way shall conform to all local municipal standards and the current edition of the "Maine Department of Transportation Highway Specifications". All remaining work will be executed in accordance with the current published technical design standards and guidelines as adopted by local city or town officials. All sanitary sewer, storm sewer, and water crossings shall be done in accordance with all applicable state and city standards.
12. All handicap accessible parking spaces, ramps, and sidewalks shall be constructed in conformance with the Americans with Disabilities Act (ADA).
13. All site signage and pavement markings shall conform to the current "Manual of Uniform Traffic Control Devices".



NOTE: 1
SILT FENCE OR COMPOST CONTROL MIX BERM MAY BE USED WHEREVER PLANS CALL FOR SILT FENCE.

NOTE: 2
MIX BERM MAY NOT BE USED WHERE CONCENTRATED FLOWS ARE LIKELY.

DATE	REVISION	DRAWING STATUS	ENGINEERING DESIGNS FOR	JOB NO.
			Safelite AutoGlass 421 Warren Avenue Portland, Maine	M-161003
				ENGINEERING DWG. NO.
			TITLE	C-1
			CIVIL DETAILS, NOTES AND SPECIFICATIONS	
			DESIGN BUILDER	
			EST. NO	
			SIZE	
			TYPE	
			DRAWN BY VWA	
			REVIEWED BY DS	
			SCALE AS NOTED	
			DATE 05/13/16	

STATE OF MAINE
DANA C. STURTEVANT
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FAIRFIELD PORTLAND MAINE
STAMPED: 05/13/16