

THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION ON THE PROJECT.

ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
 - A. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP T7.30), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
 - B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.

THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:

1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

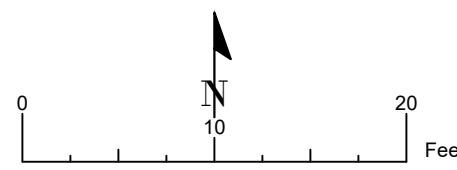
PRE-APPROVED AMENDMENT METHOD:
TURF: 3111 SF x 5.4 CY / 1,000 SF = 17 CY
TOTAL QUANTITY = 17 CY

EARTH SOLUTIONS NORTHWEST OR ANOTHER GEOTECHNICAL ENGINEER SHALL PROVIDE SPECIAL INSPECTION MONITORING DURING THE CONSTRUCTION OF THE PROPOSED SINGLE-FAMILY RESIDENCE. THIS WILL INCLUDE ANY SPECIAL INSPECTION RELATING TO GEOTECHNICAL ELEMENTS OF THE CONSTRUCTION. GIVEN THE NATURE OF THIS PROJECT, INSPECTIONS WILL PRIMARILY INVOLVE MONITORING OF EROSION CONTROL (AS NECESSARY), SUBSURFACE DRAINAGE INSTALLATION, AND SOIL BEARING VERIFICATION. ALTHOUGH EXPECTED TO BE RELATIVELY MINIMAL, INSPECTIONS WILL ALSO INCLUDE STRUCTURAL FILL VERIFICATION AND COMPACTION, AS DEEMED NECESSARY.

Hard Surface Data	
Existing Hard Surface	3038 sf
Existing Vegetation	10192 sf
New Roof	4589 sf
New Driveway (North)	635 sf
New Walkway (South)	85 sf
New Patio (West)	80 sf
Total Proposed	5389 sf
Proposed Vegetation	7841 sf
Replaced Hard Surface	2708 sf
Total New Hard Surface	2681 sf
Removed Hard Surface	330 sf
Total New + Replaced	5389 sf

SEE C1 FOR TESC/ DEMO CSWPPP
SEE C3 FOR DRAINAGE DETAILS

LEGAL DESCRIPTION
THE SOUTH 23 FEET OF LOT 3 AND ALL OF LOT 4, BLOCK 4, LUCAS HEIGHTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 17 OF PLATS, PAGES 5, RECORDS OF KING COUNTY WASHINGTON.
TOGETHER WITH THE EAST HALF OF VACATED ALLEY ADJOINING.



Merlino Residence
Site Address: 4225 89th Ave SE
Jurisdiction: Mercer Island
Parcel No.: 445730-0255
Applicant: John Merlino
Permit No.:
Interlaken Project No.: SEA-20-041

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Revisions:

2021-06-17:	Updated for City of Mercer Island comments
2021-05-26:	Updated for City of Mercer Island comments
2021-04-27:	Updated for City of Mercer Island comments

C2
Drainage Site Plan
Scale: 1" = 10'