



11930 Cyrus Way, Mukilteo, WA 98275  
 (425) 263-8000  
[mukilteowa.gov](http://mukilteowa.gov)

## SOIL MANAGEMENT PLAN WORKSHEET

Site Address: 3<sup>rd</sup> and Park Ave, Mukilteo, Wa 98275

Permit Number: TBD

### REQUIRED ATTACHMENTS

- X 3 original scaled site plans, as a separate sheet in Civil set, showing soil management option(s) for:  
 Lawn / Turf Areas (with square footage shown)  
 Planting Bed Areas (with square footage shown)  
 Show on SWPPP where soil will be left undisturbed and protected during construction and/or  
 where stockpile locations will be
- N/A Soil test results (if proposing custom amendment rates).

### LAWN / TURF AREAS

<b>TOTAL LAWN / TURF AREAS Sq. Ft. <u>555</u></b>			
SELECT TREATMENT*	<u>X</u> Pre-approved compost amendment 1.75" minimum required	<u>      </u> Custom compost amendment** <u>      </u> inches (attach soils tests and calculations)	<u>      </u> Topsoil import <u>      </u> 8" minimum required
DETERMINE COMPOST/ TOPSOIL QUANTITY	<u>1.75</u> inches compost / topsoil to be applied (as selected above) <u>X 3.1</u> <u>5.425</u> = cubic yards / 1,000 sq. ft. X <u>555</u> ,000s sq. ft. (Total Lawn / Turf Areas above) <u>3</u> = <b>TOTAL CUBIC YARDS</b>		

### PLANTING BED AREAS

<b>TOTAL PLANTING BED AREAS Sq. Ft. <u>      </u></b>			
SELECT TREATMENT*	<u>      </u> Pre-approved compost amendment 1.75" minimum required	<u>      </u> Custom compost amendment** <u>      </u> inches (attach soils tests and calculations)	<u>      </u> Topsoil import <u>      </u> 8" minimum required
DETERMINE COMPOST/ TOPSOIL QUANTITY	<u>      </u> inches compost / topsoil to be applied (as selected above) <u>X 3.1</u> <u>      </u> = cubic yards / 1,000 sq. ft. X <u>      </u> ,000s sq. ft. (Total Lawn/Turf Areas above) <u>      </u> = <b>TOTAL CUBIC YARDS</b>		
MULCH QUANTITY	<u>      </u> inches mulch to be applied (minimum 2") <u>X 3.1</u> <u>      </u> = cubic yards / 1,000 sq. ft. X <u>      </u> ,000s sq. ft. <u>      </u> = <b>TOTAL CUBIC YARDS</b>		



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\*For previously graded sites, soils shall require custom amendment or topsoil import.

**TOTAL SOIL CALCULATIONS FOR ENTIRE SITE**

<b>Pre-Approved Compost Amendment</b> Specific product and supplier <u>TBD</u>	<b>Quantity: 3</b> _____ <b>cu. yds.</b>
<b>Custom Compost Amendment**</b> Test Results Required to be Attached Specific product and supplier _____	<b>Quantity: _____ cu. yds.</b>
<b>Mulch</b> Specific product and supplier _____	<b>Quantity: _____ cu. yds.</b>

1. Pre-Approved Compost Amendment must:
  - a. Meet the definition for “composted materials” in WAC 173-350, section 220;
  - b. Have organic matter content of 35%-65%, and a carbon to nitrogen ratio below 25:1;
  - c. The carbon to nitrogen ratio may be as high as 35:1, if plantings are entirely native to Puget Sound lowland regions.
2. Custom compost amendment calculations must be provided by a qualified professional to meet organic content requirements. Qualified professionals include licensed Landscape Architects, Civil Engineers or Geologists; certified Agronomists, Soil Scientists, or Crop Advisors.

**RETAIN YOUR RECEIPTS**

Keep your receipts for all imported soils and mulch. You will be required to verify material type and quantity prior to Permit Final.



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## HOW TO DEVELOP A SOIL MANAGEMENT PLAN

### HOW TO DETERMINE SOIL AMENDMENT, TOPSOIL AND MULCH NEEDS

*These specifications are designed to achieve the required 8 inch depth of soil with 10% “Soil Organic Matter” (SOM) content in planting beds, and 5% organic content in lawn/turf areas.*

#### **STEP 1. Review site conditions, landscape and grading plans.**

Determine if subsoil can be easily amended or if compaction will require subsoil plowing or topsoil import. Identify areas that can be left undisturbed, and where soil can be stockpiled, amended and reapplied after grading. Compacted subsoils must be scarified before applying amendments or topsoil.

#### **STEP 2. Select a soil management option for each planting area.**

Choose soil management options from the chart below for each landscape area within your proposed area of disturbance. You can use more than one option on a site!

#### **STEP 3. Calculate compost and/or topsoil volumes for each area.**

Use the formulas on the Soil Management Plan Worksheet to calculate the cubic yards of compost, topsoil and mulch needed.

#### **STEP 4. Identify compost and/or topsoil to be applied and retain records.**

Compost used as amendment or in topsoil mixes must be **weed-free** and supplied by a permitted composting facility (see list of [compost facilities at https://ecology.wa.gov/Waste-Toxics/Reducing-recycling-waste/Organic-materials/Managing-organics-compost](https://ecology.wa.gov/Waste-Toxics/Reducing-recycling-waste/Organic-materials/Managing-organics-compost)). Include name of product and supplier in “**Total Soil Calculations For Entire Site**” on the Soil Management Plan Worksheet.

#### **STEP 5. Turn in completed Soil Management Plan Worksheet with Site Plan for review and approval.**

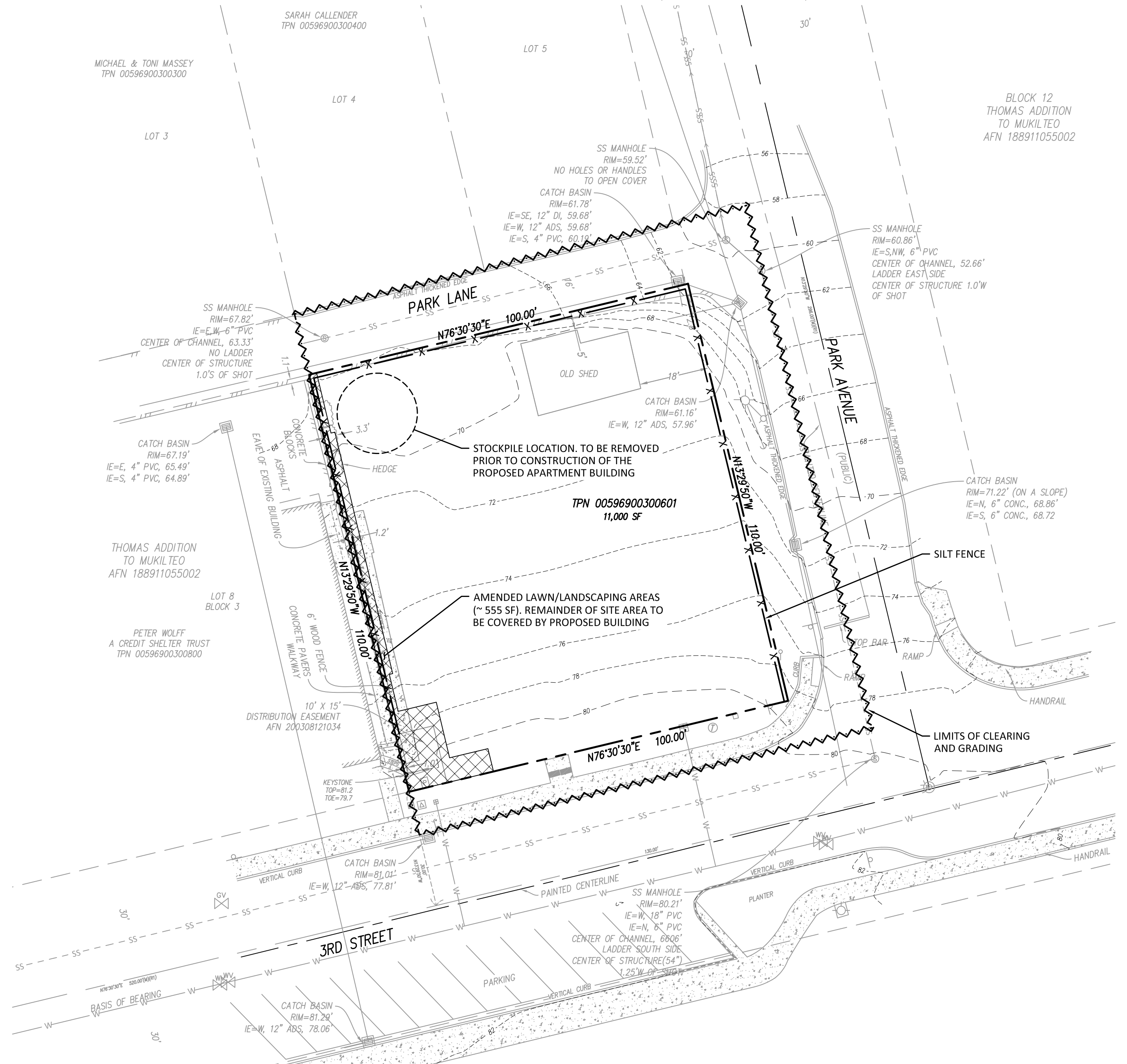


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## HOW TO DEVELOP A SOIL MANAGEMENT PLAN

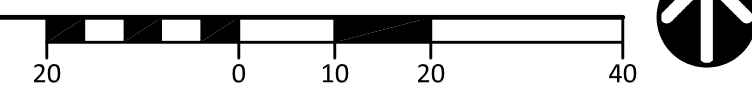
Soil Management Options	Soil Management Specifications		
	Using pre-approved amendment rates		Using Custom Amendment Rates*
	Lawn/Turf	Planting Beds	Lawn/Turf or Planting Beds
<p><b>Option 1</b>            Leave native soil undisturbed, protect from compaction.</p>	Not applicable – Undisturbed native soils do not require soil amendment	Not applicable – Undisturbed native soils do not require soil amendment	Not applicable – Undisturbed native soils do not require soil amendment
Soils that have been cleared and graded, and not covered by hard surfaces or developed as storm water structures, must be restored to 8 inches settled depth, using one of the following 3 options:			
<p><b>Option 2</b>            Scarify to depth yielding 12” uncompacted soils. Amend soil in place.</p>	Rototill 1.75 inches of compost into 6.25 inches soil (9.5” unsettled; 8” settled depth)	Rototill 3 inches of compost into 5 inches of soil (9.5” unsettled; 8” settled depth)	Test soils for organic content. Applicant shall provide soil calculations Rototill calculated amount of compost to achieve 8 inches of settled soil depth, at 5% organic for lawn/turf and 10% organic for planting beds.
<p><b>Option 3</b>            Stockpile site soil and cover with weed barrier. Scarify to depth yielding 12” uncompacted soils. Reapply, and amend in place.</p>	Reapply stockpiled soil. Rototill 1.75 inches of compost into 6.25 inches soil (9.5” unsettled; 8” settled depth)	Reapply stockpiled soil. Rototill 3 inches of compost into 6.25 inches soil (9.5” unsettled; 8” settled depth)	Reapply stockpiled soil. Rototill calculated amount of compost to achieve 8 inches of settled soil depth, at 5% organic for lawn/turf and 10% organic for planting beds. Applicant shall provide soil calculations
<p><b>Option 4</b>            Scarify to 6” depth. Import topsoil containing adequate organic amendment.</p>	Topsoil must be 5% organic matter (~25% compost). Soil portion is sand or sandy loam as defined by USDA. Place 3” topsoil on surface and till into 2” soil. Place second lift of 3” topsoil and mix on surface.	Topsoil must be 10% organic matter (~40% compost). Soil portion is sand or sandy loam as defined by USDA. Place 3” topsoil on surface and till into 2” soil. Place 3” topsoil on surface and till into 2” soil. Place second lift of 3” topsoil, mix on surface.	Not applicable

SW 1/4, NE 1/4, SECTION 4, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



**1** SOIL MANAGEMENT PLAN

SCALE: 1" = 20'



SOIL MANAGEMENT NOTES:

1. ALL DISTURBED AREAS ON AND OFF-SITE SHALL BE COMPOST- AMENDED PER THE REQUIREMENTS OF BMP T5.13 IN THE STORMWATER MANUAL VOLUME V, CHAPTER 11.
2. SEE SOIL MANAGEMENT PLAN WORKSHEET FOR FURTHER INFORMATION.

MARK	DATE	DESCRIPTION
	01/27/23	PERMIT SUBMITTAL
	04/03/23	PROGRESS DRAWINGS

DESIGN:	NAT
DRAWN:	JCP
CHECK:	JPU
JOB NO:	22332.20
DATE:	01/27/23

**ROSE HILL APARTMENTS**  
**3RD & PARK AVE**  
**MUKILTEO, WA 98275**  
**SOIL MANAGEMENT PLAN**

SHEET: **C2.2**