

A PORTION OF SEC. 10, T 21 N, R 5 E, W.M. RESTORATION/REFORESTATION PLAN

REVISIONS			
NO.	DESCRIPTION/DATE	BY	
1	COUNTY COMMENT 11/15/18	ESM	
2	COUNTY COMMENTS 01/22/19	ESM	

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SOIL AMENDMENT NOTES

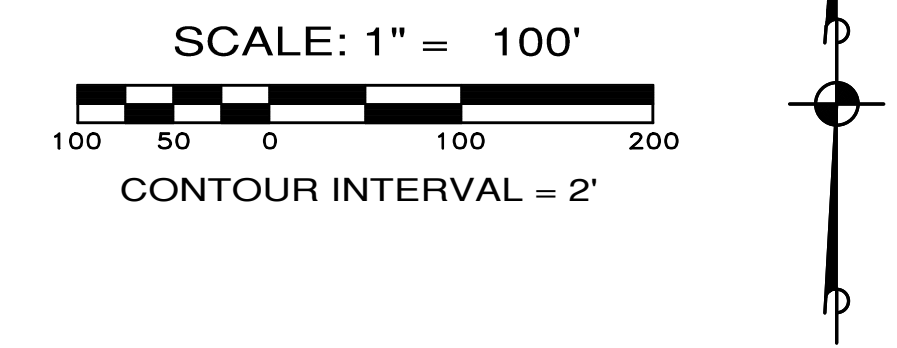
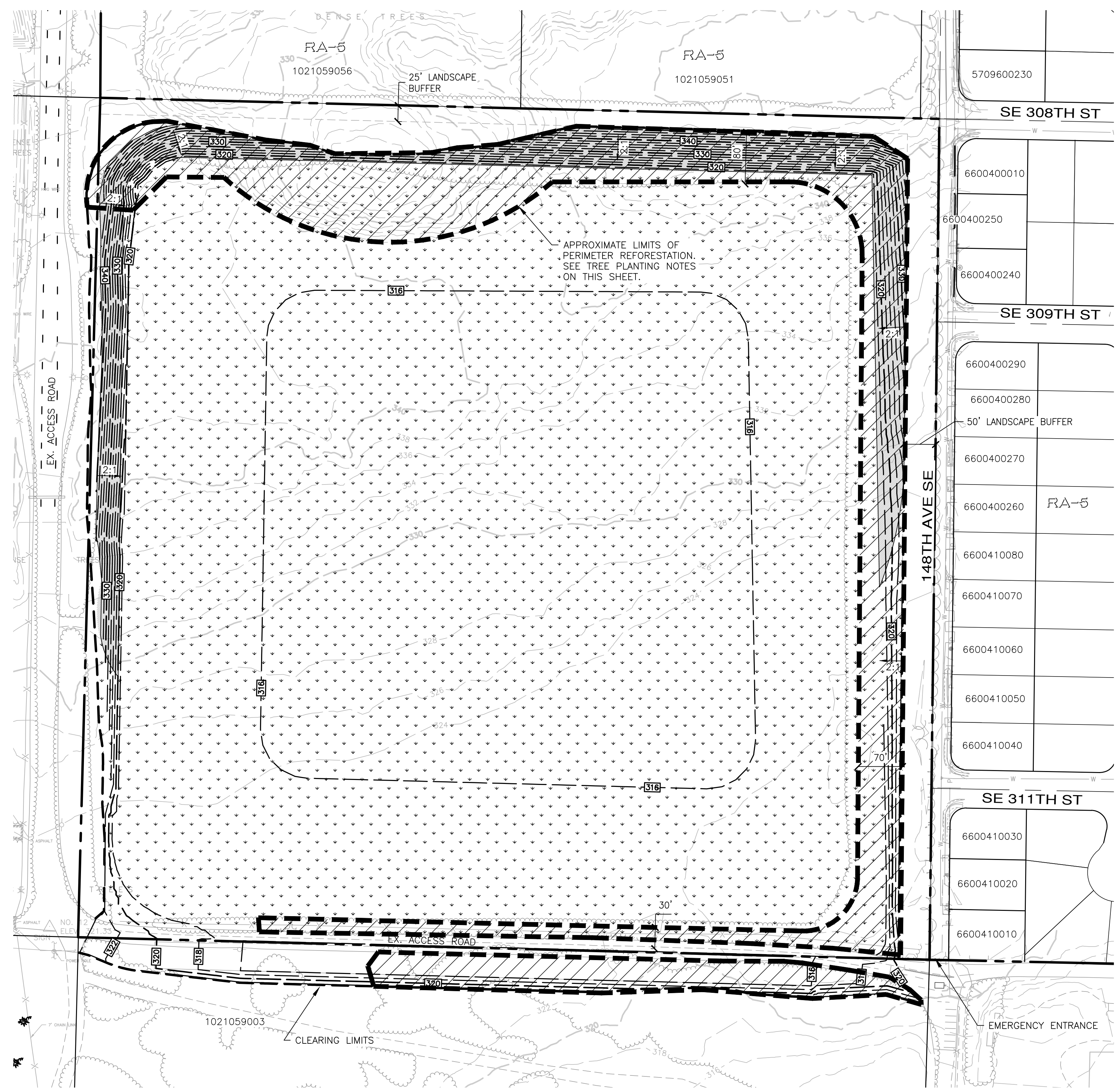
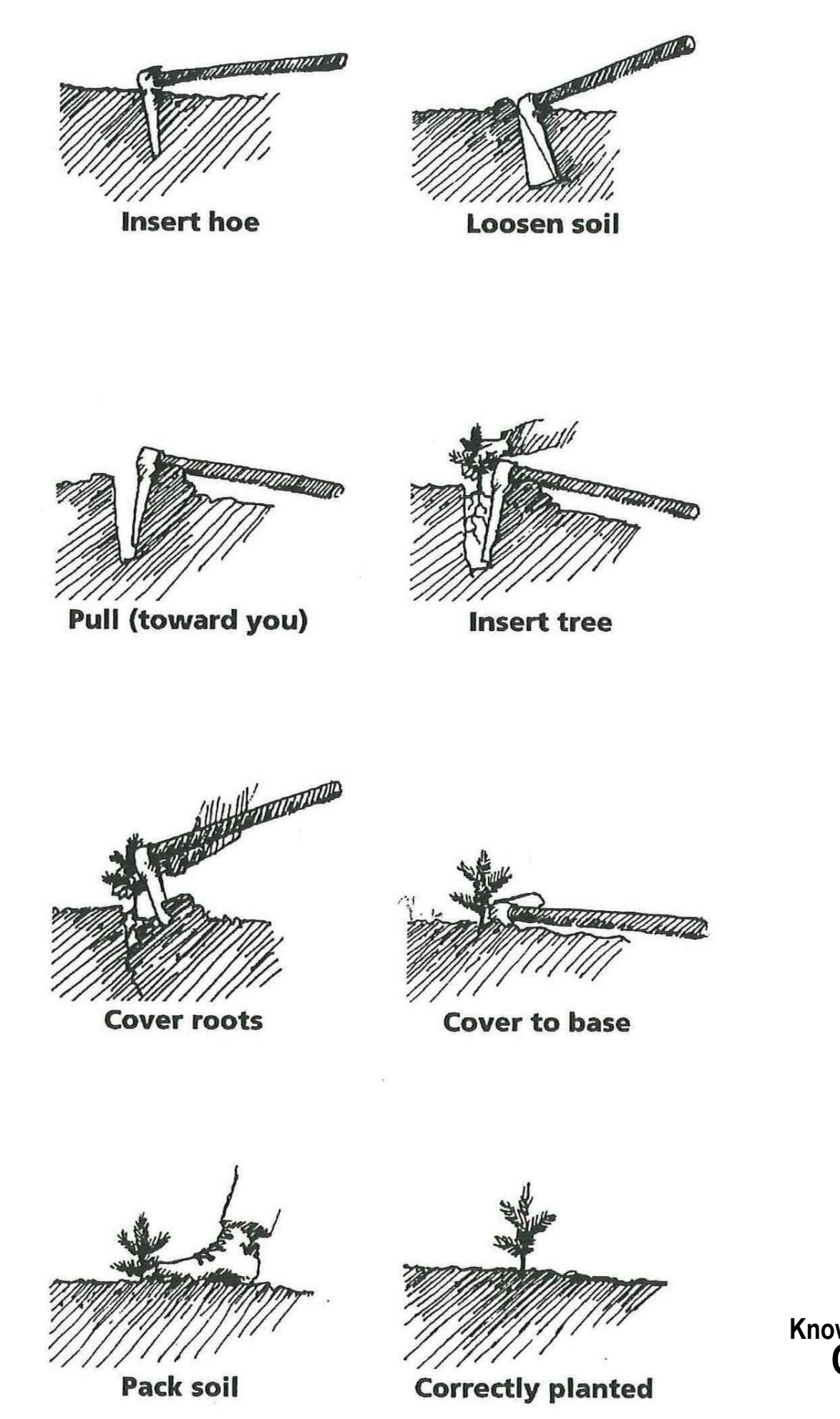
AREAS THAT HAVE BEEN CLEARED AND GRADED SHALL HAVE THE SOIL MOISTURE HOLDING CAPACITY RESTORED TO THAT OF THE ORIGINAL UNDISTURBED SOIL NATIVE TO THE SITE TO THE MAXIMUM EXTENT PRACTICABLE. THE SOIL IN ANY AREA THAT HAS BEEN COMPACTED OR THAT HAS HAD SOME OR ALL OF THE DUFF LAYER OR UNDERLYING TOPSOIL REMOVED SHALL BE AMENDED TO MITIGATE FOR LOST MOISTURE-HOLDING CAPACITY. THE AMENDMENT SHALL TAKE PLACE BETWEEN MAY 1 AND OCTOBER 1. THE TOPSOIL LAYER SHALL BE A MINIMUM OF EIGHT INCHES THICK, UNLESS THE APPLICANT DEMONSTRATES THAT A DIFFERENT THICKNESS WILL PROVIDE CONDITIONS EQUIVALENT TO THE SOIL MOISTURE-HOLDING CAPACITY NATIVE TO THE SITE. THE TOPSOIL LAYER SHALL HAVE AN ORGANIC MATTER CONTENT OF BETWEEN FIVE TO TEN PERCENT DRY WEIGHT AND A PH SUITABLE FOR THE PROPOSED LANDSCAPE PLANTS. WHEN FEASIBLE, SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST FOUR INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS. COMPOST USED TO ACHIEVE THE REQUIRED SOIL ORGANIC MATTER CONTENT MUST MEET THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173-350-220, EXCEPT FOR ROADS. THE SOIL SHALL BE OF QUALITY AT LEAST TO THE TOP SOIL OF THE LAND AREA IMMEDIATELY SURROUNDING, AND TO A DEPTH EQUAL TO THE TOP SOIL DEPTH OF ADJACENT PROPERTIES, OR 6 INCHES, WHICHEVER IS GREATER.

SOIL MANAGEMENT OPTIONS

THERE ARE FOUR SOIL STANDARD MANAGEMENT OPTIONS TYPICALLY USED TO MEET THE SOIL AMENDMENT STANDARDS. THE CLEARING AND GRADING ACTIVITIES PERMITTED FOR THIS SITE PROPOSED TO STOCKPILE SITE SOIL TO AMEND THE AREA AROUND EACH NEW TREE AS NEEDED. THE STOCKPILED SOIL AS A PART OF THE CLEARING AND GRADING ACTIVITY IS TO BE THE PRIMARY SOURCE OF SOIL AMENDMENTS TO ENSURE THE SOIL MOISTURE HOLDING CAPACITY IS RESTORED. IT IS ANTICIPATED THIS OPTION WILL BE SUFFICIENT IN THE AREA OF REFORESTATION.

TREE PLANTING STEPS

PER THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, PLANTING FOREST SEEDLINGS



LEGEND

- CLEARING LIMITS
- EXISTING CONTOUR
- PROPOSED CONTOUR
- STEEP SLOPE BLANKET WITH HYDROSEED, 2.8± ACRES
- HYDROSEED, 34± ACRES
- DOUGLAS FIR SEEDLINGS REFORESTATION BOUNDARY 6.4± ACRES

PERMANENT SEEDING NOTES

1. THE SEED BED SHOULD BE FIRM BUT NOT COMPACTED. SEE SOIL AMENDMENT NOTES ON THIS SHEET. STEEP SLOPES SHOULD BE SURFACE ROUGHENED.
2. HYDROSEED SHALL INCLUDE TACKIFIER. HYDROSEEDING WITH WOOD FIBER MULCH IS ADEQUATE DURING THE DRY SEASON. DURING THE WET SEASON THE APPLICATION RATE SHOULD BE DOUBLED.
3. A SEED MIX THAT REQUIRES LITTLE MAINTENANCE AND PROMOTES COLONIZATION OF NATIVE PLANTS IS RECOMMENDED, SUCH AS A MEADOW SEED MIX. SEE THE MEADOW SEED MIX TABLE ON THIS SHEET.
4. FERTILIZER, (10-20-20 N-P-K), MAY BE USED AT A RATE OF 90 LB/ACRE.
5. THE BEST TIME TO SEED IS APRIL 1 THROUGH JUNE 30, AND SEPTEMBER 1 THROUGH OCTOBER 15. AREAS MAY BE SEEDED BETWEEN JULY 1 AND AUGUST 31, BUT IRRIGATION MAY BE REQUIRED.
6. INSTALL EROSION CONTROL NETTING/BLANKETS FOR PERMANENT STABILIZATION OF SLOPES 2H:1V OR GREATER AND WITH MORE THAN 10 FEET OF VERTICAL RELIEF. JUTE MATTING MUST BE USED IN CONJUNCTION WITH MULCH. EXCELSIOR, WOVEN STRAW BLANKETS, AND COIR MAY BE INSTALLED WITHOUT MULCH.

MEADOW SEED MIX TABLE

	% WEIGHT	% PURITY	% GERMINATION
Redtop or Oregon bentgrass <i>Agrostis alba</i> or <i>Agrostis oregonensis</i>	40	92	85
Red fescue <i>Festuca rubra</i>	40	98	90
White dutch clover <i>Trifolium repens</i>	20	98	90

TREE PLANTING NOTES

1. TREE TYPE FOR REFORESTATION = DOUGLES FIR (PSEUDOTSUGA MENSIESII), OR APPROVED SIMILAR. USE 12-18" BAREROOT SEEDLINGS PLANTED ON A 12'x12' GRID (APPROX. 300 PER ACRE).
2. TREES SHOULD BE PLANTED WHILE THEY ARE DORMANT, GENERALLY FROM DECEMBER THROUGH APRIL. BAREROOT STOCK AND TRANSPLANTS ARE USUALLY PLANTED IN THE SPRING BECAUSE THE PLANTS HAVE TO BE DORMANT BEFORE THEY CAN BE DUG. SEE TREE PLANTING STEPS ON THIS SHEET.
3. REFER TO THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES FOR FURTHER GUIDELINES AND RECOMMENDATIONS FOR PLANTING FOREST SEEDLINGS.

FINAL GRADES

THE FINAL GRADES PRIOR OF THE SITE SHOULD BE SUCH TO ENCOURAGE THE USES PERMITTED WITHIN THE PRIMARILY SURROUNDING ZONE OR, IF APPLICABLE, THE UNDERLYING OR POTENTIAL ZONE CLASSIFICATION AND COMPLY WITH THE FOLLOWING STANDARDS:

- A SLOPE OF CUT AND FILL SURFACES SHALL NOT BE STEEPER THAN IS SAFE FOR BOTH THE INTENDED USE AND SOIL TYPE AND SHALL NOT EXCEED TWO HORIZONTAL TO ONE VERTICAL.
- THE GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING UNSUITABLE MATERIAL SUCH AS CONCRETE SLABS, TREE STUMPS, BRUSH, CAR BODIES AND OTHER MATERIALS AS DETERMINED BY THE DEPARTMENT ALL DISTURBED AREAS INCLUDING FACES OF CUTS AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION IN COMPLIANCE
- ADDRESS ANY SURFACE WATER THAT IS OR MIGHT BE CONCENTRATED AS A RESULT OF A FILL OR EXCAVATION.

PACIFIC RACEWAYS
BUSINESS PARK
 RESTORATION/REFORESTATION PLAN
 KING COUNTY
 WASHINGTON

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 DESIGNED BY: TLS
 DRAWN BY: CJR
 CHECKED BY:
 DATE: 01/22/2018
 DATE OF PRINT:
RP-01
 1 OF 1 SHEETS

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