

SIGNIFICANT TREE RETENTION NOTES:

- THE APPLICANT IS REQUIRED TO SAVE 10% MINIMUM OF TOTAL DBH OF THE SIGNIFICANT TREES ON SITE.
- SIGNIFICANT TREES SHALL BE PRESERVED WHERE POSSIBLE. IN THE EVENT ANY DESIGNATED SIGNIFICANT TREES ARE DAMAGED OR REMOVED AS A RESULT OF THE DEVELOPMENT OR DIE PRIOR TO RELEASE OF TREE RETENTION BONDS AND ALTERNATIVE SIGNIFICANT TREES ARE NOT AVAILABLE FOR THEIR SUBSTITUTION, A TREE RESTORATION PLAN WILL BE PREPARED AS SPECIFIED BY BMC 12.18.030(f).
- ALTERNATIVE TREE RETENTION TECHNIQUES AND PROCEDURES MAY BE UTILIZED DURING CONSTRUCTION IF ACCEPTABLE BY THE CITY AND PERFORMED UNDER DIRECTION OF A TREE SPECIALIST APPROVED BY THE CITY. AREAS OF DISTURBANCE WITHIN 15 FEET OF TREES TO BE RETAINED SHALL ONLY BE PERFORMED UNDER DIRECTION OF SAID SPECIALIST. ALL TREES SHALL HAVE PROTECTIVE BARRIERS INSTALLED AT 15 FEET.

EROSION CONTROL SEED MIXTURE:

	WEIGHT
CHEWINGS OR RED FESCUE	40
ANNUAL OR PERENNIAL RYE	40
REDTOP OR COLONIAL BENTGRASS	10
WHITE DUTCH CLOVER	10

CONSTRUCTION SEQUENCE:

- A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE PUBLIC WORKS CONSTRUCTION INSPECTOR, THE DEVELOPER, AND THE DEVELOPER'S CONSTRUCTION REPRESENTATIVE BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY.
- SCHEDULE CLEARING LIMIT AND TREE PROTECTION INSPECTION AND APPROVAL BEFORE INSTALLING TEMPORARY EROSION & SEDIMENT CONTROL (TESC) MEASURES OR ANY SITE CLEARING.
- INSTALL TESC MEASURES AND SCHEDULE TESC INSPECTION AND APPROVAL BEFORE STARTING SITE CONSTRUCTION.
- CLEAR AND GRUB SITE. RETAIN VEGETATION AS POSSIBLE. SELECTIVE CLEARING IS ENCOURAGED TO MINIMIZE EFFORT SPENT ON TESC ACTIVITIES.
- GRADE SITE AND ROUGH GRADE ROADWAYS PER PLANS. GRADE SITE WITHIN 1-FOOT OF FINISH ROAD ELEVATION AND FINISHED GRADE EXCEPT WHERE TOPOGRAPHY REQUIRES CONFORMING TO A SPECIFIC GRADING PLAN. ANY WALLS MUST INCLUDE DRAINAGE AND FALL PROTECTION IF WALL HEIGHT EXCEEDS 30-INCHES. GEOTECHNICAL TESTING REQUIRED FOR ALL FILL AND ROAD BASE ACTIVITIES UNLESS OTHERWISE APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
- INSTALL UTILITIES AND PERMANENT STORM DRAINAGE SYSTEM AS SOON AS POSSIBLE. GEOTECHNICAL TESTING REQUIRED FOR ALL TRENCH FILL ACTIVITIES UNLESS OTHERWISE APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
- GEOTECHNICAL TESTING, PERFORMANCE PROOF ROLL, AND CITY SUBGRADE APPROVAL IS REQUIRED PRIOR TO PAVING. THE CONTRACTOR MUST REQUEST A PAVING PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO PAVING.
- THIRD-PARTY PAVEMENT DENSITY AND FINISH TESTING REQUIRED FOR ALL PAVEMENT (HMA, CONCRETE, OTHER) ACTIVITIES UNLESS OTHERWISE APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
- HYDROSEED AND MULCH ALL EXPOSED AREAS THAT HAVE NOT BEEN PREVIOUSLY STABILIZED. SLOPES STEEPER THAN 15% MUST BE STABILIZED WITH JUTE MATTING OR OTHER CITY-APPROVED EROSION CONTROL PRODUCT.
- AFTER ENTIRE SITE IS STABILIZED AND THE POTENTIAL FOR EROSION HAS PASSED, TESC FACILITIES MUST BE REMOVED UPON CITY APPROVAL.
- CLEAN ANY SILT THAT HAS ACCUMULATED IN THE PERMANENT STORM DRAINAGE SYSTEM AND VIDEO-INSPECT STORM DRAINAGE AND SEWER SYSTEM.
- REQUEST A PUNCHLIST INSPECTION AND COMPLETE ALL CORRECTIONS PRIOR TO FINAL CITY APPROVAL OF COMPLETION OF WORK AND COMPLIANCE OF PERMIT REQUIREMENTS. (NOTES PER CITY OF BOTHELL DESIGN AND CONSTRUCTION STANDARDS, 2021 UPDATE)

TEMPORARY EROSION & SEDIMENT CONTROL STANDARD NOTES:

- THE TEMPORARY EROSION & SEDIMENT CONTROL (TESC) MEASURES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC MEASURES MUST BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, PUMPING AND CONTAINMENT, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF BOTHELL.
- THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL THE CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ONSITE EROSION HAS PASSED. THE TESC PLANS ARE TO BE CONSIDERED A DYNAMIC MINIMUM GUIDELINE AND AS SUCH WILL MOST LIKELY HAVE TO BE CONTINUALLY EVALUATED AND/OR MODIFIED DEPENDING ON SITE CONDITIONS.
- THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADE OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE DEVELOPER AND TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN MUST BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS WILL BE PERMITTED. THE DEVELOPER AND CONTRACTOR MUST MAINTAIN THE FLAGGING FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE TESC FACILITIES MUST BE INSPECTED DAILY BY THE DEVELOPER/TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS MUST BE KEPT OF WEEKLY REVIEWS OF THE TESC FACILITIES.
- SOILS MUST NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS FROM MAY 1 THROUGH SEPTEMBER 30 AND NOT MORE THAN 48 HOURS FROM OCTOBER 1 AND APRIL 30. EXPOSED AND UNWORKED SOILS MUST BE COVERED BY MULCH, SODDING, PLASTIC COVERING, JUTE-MATTING, OR AS OTHERWISE APPROVED OR REQUIRED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
- THE TESC FACILITIES ON INACTIVE SITES MUST BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME MAY MORE THAN 6-INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES MUST BE CLEANED PRIOR TO PAVING AND FINAL APPROVAL. THE CLEANING OPERATION MAY NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSIDE SYSTEM.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN MUST BE MODIFIED WITH THE NECESSARY TESC MEASURES AND MUST PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS MUST BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS MUST BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED MUST BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR FOR REVIEW AND APPROVAL.
- DUST GENERATED DURING CONSTRUCTION ACTIVITIES MUST BE CONTROLLED BY WETTING DUST SOURCES SUCH AS AREAS OF EXPOSED SOILS, WASHING TRUCK WHEELS BEFORE THEY LEAVE THE SITE, AND INSTALLING AND MAINTAINING ROCK CONSTRUCTION ENTRANCES. CONTRACTOR MUST MECHANICALLY SWEEP STREETS DAILY WITH VACUUM SWEEPER UNLESS OTHERWISE APPROVED. FLUSHING OF STREETS AND SIDEWALKS WILL NOT BE PERMITTED. A WHEEL-WASH FOR CONSTRUCTION TRAFFIC MUST BE INSTALLED IF REQUIRED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR. ANY VIOLATIONS OF THE CITY OF BOTHELL MUNICIPAL CODE OR OTHER APPLICABLE REGULATIONS MAY RESULT IN IMPOSING PENALTY FEE. (NOTES PER CITY OF BOTHELL DESIGN AND CONSTRUCTION STANDARDS, 2021 UPDATE)

NOTES:

- ALL SURPLUS SOILS SHALL BE EXPORTED TO AN APPROVED DROP-OFF SITE.
- FILL NEEDED IN EXCESS OF ONSITE SOIL SHALL BE IMPORTED FROM AN APPROVED SOURCE AND SHALL BE APPROVED BY GEOTECHNICAL ENGINEER.
- PARKING FOR CONSTRUCTION WORKERS TO BE PROVIDED ON SITE AS SHOWN.
- EXCAVATION BELOW GRADE WILL BE REQUIRED PER ARCHITECTURAL PLANS.
- ALL GRADING LAYBACKS NOT CONTAINED WITHIN THE SITE, EXISTING EASEMENTS OR COMMONLY HELD PARCELS SHALL BE SHORED PER STRUCTURAL PLANS.
- KING COUNTY DISCHARGE PERMIT WILL BE REQUIRED FOR DISCHARGE OF STORMWATER FROM TEMPORARY SEDIMENT CONTROL SYSTEM.
- CONTRACTOR TO PROVIDE TRAFFIC DIRECTION IF UTILITY INSTALLATION OR PAVING REQUIRES CLOSURE OF APART OF THE ACCESS EASEMENT.
- CONTRACTOR TO LOCATE AND PROTECT EXISTING SEWER LINE ON THE PROPERTIES TO THE NORTH. SEWER LINE TO BE MONITORED DAILY DURING SOIL NAIL INSTALLATION AND TV INSPECTED FOLLOWING COMPLETION TO CONFIRM CONDITION.

WET WEATHER SEASON NOTES:

THE WET SEASON REQUIREMENTS ARE AS FOLLOWS:

- THE ALLOWED TIME THAT A DISTURBED AREA CAN REMAIN UNWORKED WITHOUT COVER MEASURES IS REDUCED TO TWO DAYS, RATHER THAN SEVEN. ALL DISTURBED SOILS WILL BE PROTECTED PRIOR TO END OF DAY PRECEDING WEEKENDS AND HOLIDAYS. STOCKPILES MUST BE STABILIZED WITH SEDIMENT TRAPPING MEASURES AND COVERED WITH PLASTIC, ANCHORED WITH WEIGHTED ROPE.
- STOCKPILES, STEEP CUTS, AND FILL SLOPES ARE TO BE PROTECTED UNWORKED FOR MORE THAN 12 HOURS. THE CITY CAN INVOKE A LIMITATION ON THE AREA THAT CAN BE WORKED DURING THE WET SEASON.
- COVER MATERIALS SUFFICIENT TO COVER DISTURBED AREAS SHALL BE STOCKPILED ON SITE. THESE TESC MATERIALS SHALL INCLUDE: SILT FENCE AND POSTS, SUFFICIENT PLASTIC SHEETING AND ANCHORING, AND STRAW OR MULCH. THE QUANTITY OF EACH WILL BE ESTABLISHED BY THE INSPECTOR. MATERIALS MUST BE RESTOCKED IF USED DURING THE WET SEASON.
- ALL AREAS THAT ARE TO BE UNWORKED DURING THE WET SEASON SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON (SEPTEMBER 23, 2019).
- MULCH IS REQUIRED TO PROTECT ALL SEEDED AREAS.
- FIFTY LINEAR FEET OF THE SILT FENCE (AND THE NECESSARY STAKES) PER ACRE OF DISTURBANCE MUST BE STOCKPILED ON SITE.
- CONSTRUCTION ROAD AND PARKING LOT STABILIZATION ARE REQUIRED FOR ALL SITES UNLESS THE SITE IS UNDERLAIN BY COARSE- GRAINED SOIL.
- SEDIMENT RETENTION IS REQUIRED.
- SURFACE WATER CONTROLS ARE REQUIRED.
- PHASING AND MORE CONSERVATIVE BMPs MUST BE EVALUATED FOR CONSTRUCTION ACTIVITY NEAR SURFACE WATERS.
- ANY RUNOFF GENERATED BY DEWATERING SHALL BE TREATED THROUGH CONSTRUCTION OF A SEDIMENT TRAP WHEN THERE IS SUFFICIENT SPACE OR BY RELEASING THE WATER TO A WELL-VEGETATED, GENTLY SLOPING AREA. SINCE PUMPS ARE USED FOR DEWATERING, IT MAY BE POSSIBLE TO PUMP THE SEDIMENT-LADEN WATER WELL AWAY FROM THE SURFACE WATER SO THAT VEGETATION CAN BE MORE EFFECTIVELY UTILIZED FOR TREATMENT. A STRAW BALE FILTER SHALL BE PLACED AROUND THE DISCHARGE FROM THE DEWATERING PUMP. IF THERE IS NOT A SPACE FOR A SEDIMENT TRAP OR 25 FEET OF SUITABLE VEGETATION OTHER FILTRATION METHODS SHALL BE REQUIRED CONSISTENT WITH THE BOTHELL STANDARDS.
- THE FREQUENCY OF MAINTENANCE OF THE EROSION CONTROL BMPs INCREASES FROM MONTHLY TO WEEKLY.
- SEDIMENT CONTROLS: SEDIMENT SOCKS WILL BE INSTALLED IN STORM INLETS AFFECTED BY THE SITE. SEDIMENT SOCKS MUST BE INSPECTED AFTER STORM EVENTS AND CLEANED IF SUMP IS FULL. IF SEDIMENT CONTROLS ARE NOT SUFFICIENT TO KEEP DISCHARGE TURBIDITY CONCENTRATION (OR PH) BELOW REGULATED CONCENTRATION (SITE DEPENDENT) THAN THE SITE MUST CONTACT THE CITY OF BOTHELL IMMEDIATELY.
- WET WEATHER SEASONAL SUSPENSION: ALL SITES ARE ENCOURAGED TO NOT DISTURB SOILS DURING THE WET WEATHER SEASON. IF SUSPENSION IS REQUIRED BY THE CITY OR SELECTED BY THE SITE DEVELOPER, THE FOLLOWING MUST OCCUR: ALL EXPOSED SOILS WILL BE PROTECTED FROM EROSION WITH APPROPRIATE BMPs. BMPs WILL BE INSPECTED BY THE DEVELOPER EVERY TWO WEEKS OR AFTER RAIN EVENTS EXCEEDING 0.5 INCHES OF RAINFALL IN 24 HOURS; STOCKPILES OF ADDITIONAL MATERIALS WILL BE MAINTAINED; THE DEVELOPER WILL PROVIDE EMERGENCY INFORMATION AND WILL RESPOND IF ISSUES ARISE. THE CITY OF BOTHELL WILL BACK CHARGE ANY WORK THEY CONTRACT OR PROVIDE, PLUS APPLICABLE FINES, IF WORK IS DEEMED NECESSARY TO COMPLY WITH AFOREMENTIONED REGULATORY REQUIREMENTS.

SEDIMENT TRAP SIZING SUMMARY

THE TRAP WAS SIZED USING THE REQUIREMENTS STATED IN APPENDIX D OF THE 2016 KING COUNTY SURFACE WATER DESIGN MANUAL WHICH REQUIRES 2,080 S.F. OF SURFACE AREA PER CFS OF INFLOW; DEVELOPED 2-YEAR STORM, 15-MIN. TIME STEPS.

CATCHMENT AREA: 1.09 AC.	
2-YEAR PEAK FLOW RATE:.....	0.3016 CFS
REQUIRED SURFACE AREA:.....	628 S.F.
PROVIDED SURFACE AREA:.....	644 S.F.

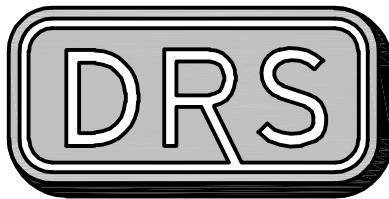
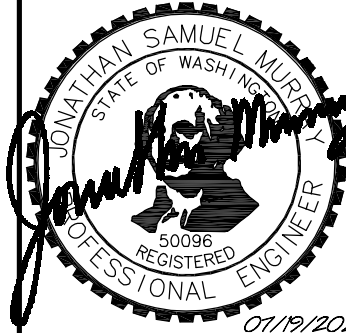
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811

Utilities Underground Location Center (ID.MT.ND.OR.WA)

PERMIT NUMBERS:  
SPR2020-15978, SEP2020-16003  
GRA2020-26988, UTL2020-26990,  
ROW2020-26989

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PROJECT:

ROSS ROAD  
APARTMENTS

10416 NE 185TH ST  
BOTHELL, WA 98011

CLIENT:

HARBOUR  
HOMES

PROJECT ISSUES:

SPR RESUB	07/29/2020
SPR 2ND RESUB	09/28/2020
GRADING PERMIT SUBMITTAL	12/18/2020
BUILDING PERMIT SUBMITTAL	12/23/2020
GRADING PERMIT RESUB	05/14/2021
GRADING PERMIT RESUB	07/19/2021

SHEET DATE:

12/18/20

REVISIONS

1	05/14/2021	GP RESUB 1
2	07/19/2021	GP RESUB 2
3		
4		
5		
6		

DRAWN:

NBM

CHECKED:

JSM

PROJECT No.

19047

SHEET TITLE:

T.E.S.C. PLAN

ISSUE:

C4  
4 OF 20