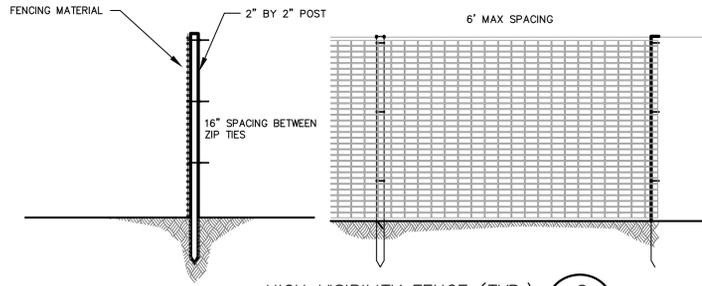
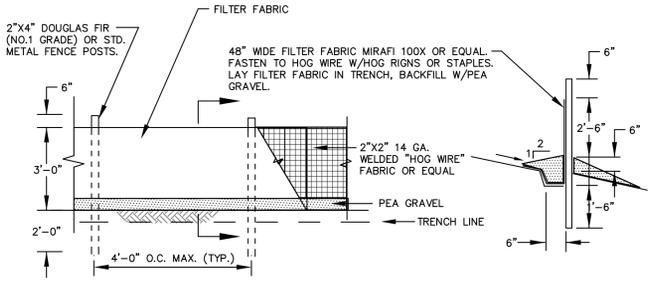


NOTE: "GULLYWASHER", "SILT SACK", OR OTHER APPROVED CATCH BASIN INSERT MAY BE USED FOR INLET PROTECTION. CONTACT: PRICE-MOON ENTERPRISES PH: 360-563-6709 OR "SILTSACK" BY ACF ENVIRONMENTAL AT PH: 1-800-644-9223 (OR APPROVED EQUAL).

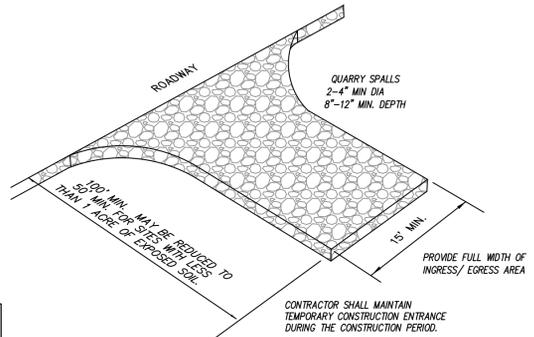
TEMPORARY SEDIMENT TRAP (1) NOT TO SCALE



HIGH VISIBILITY FENCE (TYP.) (2) NOT TO SCALE



TEMPORARY SILT FENCE (3) NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE (4) NOT TO SCALE

CONSTRUCTION SWPP ELEMENTS #1-#12

- | | | | |
|---|--|----|---|
| 1 | ELEMENT 1: MARK CLEARING LIMITS. PLASTIC, METAL, OR STAKE WIRE FENCE MAY BE USED TO MARK THE CLEARING LIMITS. | 7 | ELEMENT 7: PROTECT DRAIN INLETS |
| 2 | ELEMENT 2: ESTABLISH CONSTRUCTION ACCESS. | 8 | ELEMENT 8: STABILIZE CHANNELS AND OUTLETS. N/A |
| 3 | ELEMENT 3: CONTROL FLOW RATES | 9 | ELEMENT 9: CONTROL POLLUTANTS. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. |
| 4 | ELEMENT 4: INSTALL SEDIMENT CONTROLS. | 10 | ELEMENT 10: CONTROL DE-WATERING. DE-WATERING IS NOT ANTICIPATED |
| 5 | ELEMENT 5: STABILIZE SOILS. SOILS TO BE STABILIZED AS LISTED IN THE COVER METHOD NOTES. | 11 | ELEMENT 11: MAINTAIN BMP'S. |
| 6 | ELEMENT 6: PROTECT SLOPES. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. | 12 | ELEMENT 12: MANAGE THE PROJECT. |

TOPSOIL PRESERVATION NOTES:
 SITE DISTURBING ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE ANY DISTURBANCE OF THE NATIVE LOOSE ORGANIC TOPSOIL LAYER.
 MAINTAIN A SEPARATE TOPSOIL STOCKPILE.
 ENSURE AT LEAST EIGHT INCHES OF TOPSOIL OVER ANY AREA THAT WAS DISTURBED DURING CONSTRUCTION ACTIVITIES.

SITE GRADING, AND T.E.S.C. NOTES:

- ALL GRADING SHALL COMPLY TO CHAPTER 18 OF THE INTERNATIONAL BUILDING CODE
- T.E.S.C. MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE WORK (SEE ATTACHED DETAILED T.E.S.C. PLAN).
- PUBLIC STREETS ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING EXCAVATION AND FILL OPERATIONS.
- NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND/OR CLEARING LIMITS MAY RESULT IN REVIVAL OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- CONSTRUCTION ACCEPTANCE WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND TITLE 30, SNOHOMISH COUNTY DRAINAGE ORDINANCE.
- ALL AREAS TO BE SEEDED SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS. PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE. IF NECESSARY, SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR Dikes/SWALES, LEVEL SPREADERS, AND SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO SEEDING.
- ALL DISTURBED AREAS SUCH AS DETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDING WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY SNOHOMISH COUNTY.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 200# ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40# CREEPING RED FESCUE, 40# WHITE CLOVER. LEGUME REQUIRED.
- FERTILIZER SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT. DEVELOPMENTS ADJACENT TO WATER BODIES SHALL USE NON-PHOSPHOROUS FERTILIZER.
- ALL CUT AND FILL SLOPES SHALL BE A MAXIMUM OF 2:1.
- STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED WITHIN 24 HOURS TO PREVENT EROSION. HYDROSEEDER PREFERRED.
- DURING PERIODS OF WET WEATHER, THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EXCESSIVE RUNOFF EROSION.
- AREAS TO RECEIVE FILL SHALL BE CLEARED OF ALL VEGETATION AND DELETERIOUS MATTER.
- ALL FILL MATERIALS USED SHALL BE FREE OF VEGETATION AND DELETERIOUS MATTER AND SHALL NOT CONTAIN ROCKS GREATER THAN 6 INCHES IN DIAMETER.
- STRUCTURAL FILLS SHALL BE PLACED IN 8" TO 10" THICK LOOSE HORIZONTAL LIFTS AND SPREAD UNIFORMLY.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST (ASTM D-1557-70).
- THE SURFACE OF ALL SLOPES SHALL BE COMPACTED. THIS MAY BE ACCOMPLISHED BY OVER-BUILDING THE SLOPES, THEN CUTTING BACK TO FINAL GRADES. OR BY RUNNING THE COMPACTOR OVER THE SLOPE AS EACH FILL LIFT IS BEING PLACED. ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORKING DAY.
- DISTURBED AREAS TO BE STABILIZED WITH HYDROSEED OR STRAW MULCH WITHIN 24 HOURS OF COMPLETION OF FINAL GRADING DURING WET WEATHER.

CONSTRUCTION SEQUENCE:

- SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY ENGINEERING DIVISION AT 425-771-0220, EXT. 1326. TWO DAY (48 HR) NOTICE IS REQUIRED.
- REVIEW TEMPORARY EROSION AND SEDIMENT CONTROL NOTES.
- CALL FOR UTILITY LOCATES.
- INSTALL HIGH VISIBILITY ORANGE FENCING AROUND PROPOSED RAIN GARDEN AREAS.
- INSTALL T.E.S.C. MEASURES AND MAINTAIN DUST CONTROL WHILE PREVENTING DISTURBANCE OF ANY AREAS OF VEGETATION OUTSIDE THE CONSTRUCTION ZONE.
- HAVE EROSION CONTROL MEASURES INSPECTED BY CITY ENGINEERING INSPECTOR. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE IN PLACE AND INSPECTED PRIOR TO ANY CONSTRUCTION OR SITE CLEARING. EROSION AND SEDIMENTATION CONTROL PRACTICES AND/OR DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- CLEAR AND GRUB WHERE APPLICABLE
- ROUGH GRADE SITE AS REQUIRED TO INSTALL SITE DEVELOPMENT FEATURES. TAKE CARE TO PRESERVE RAIN GARDEN AREAS AND KEEP ALL CONSTRUCTION EQUIPMENT FROM THE AREAS.
- CLEAR, GRUB & ROUGH GRADE SITE. REVEGETATE DISTURBED AREAS NOT SUBJECT TO ADDITIONAL SURFACE DISTURBANCE IMMEDIATELY AFTER ROUGH GRADING. (OTHER EXPOSED AREAS SHALL BE STABILIZED PER EROSION CONTROL NOTES BELOW)
- INSTALL UTILITIES AND OTHER SITE IMPROVEMENTS.
- STABILIZE AND COMPOST. AMEND ALL EXPOSED SOILS PRIOR TO REVEGETATION OF ENTIRE SITE.
- ESTABLISH LANDSCAPING AND PERMANENT VEGETATION. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL SITE STABILIZATION AND APPROVAL BY CITY INSPECTOR.

MAINTENANCE OF SILTATION BARRIERS (11)

SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED.

CLEAR PLASTIC COVERING
 PROTECT DISTURBED SLOPES BY COVERING WITH CLEAR PLASTIC. THIS METHOD OF COVER IS GOOD FOR PROTECTING BARE AREAS WHICH NEED IMMEDIATE COVER AND FOR WINTER PLANTINGS. IT IS ALSO QUICK AND EASY TO PLACE. THE SHEETING WILL RESULT IN RAPID, 100% RUNOFF WHICH MAY CAUSE SERIOUS EROSION PROBLEMS AND/OR FLOODING AT THE BASE OF SLOPES UNLESS THE RUNOFF IS PROPERLY INTERCEPTED AND SAFELY CONVEYED BY A COLLECTING DRAIN. THIS IS STRICTLY A TEMPORARY MEASURE, SO PERMANENT STABILIZATION IS STILL REQUIRED. THE PLASTIC MUST BE ANCHORED.

CLEAR PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MIL AND MEET THE REQUIREMENTS OF WSDOT/APWA SECTION 9-14.5. COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TREES ON SLOPES WITH A MAXIMUM 10 FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHED DOWN FULL LENGTH AND THERE SHALL BE AT LEAST A 1 TO 2 FOOT OVERLAP ON ALL SEAMS. SEAMS SHOULD THEN BE ROLLED AND STAKED OR TIED. COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDING BETWEEN NOV. 1 TO MAR 1 AND REMAIN UNTIL VEGETATION IS PROPERLY ESTABLISHED. WHEN THE COVERING IS USED ON UNSEEDED SLOPES, IT SHALL BE LEFT IN PLACE UNTIL THE NEXT SEEDING PERIOD. SHEETING SHOULD BE TOED IN AT THE TOP OF THE SLOPE TO PREVENT SURFACE FLOW BENEATH THE PLASTIC. SHEETING SHOULD BE REMOVED AS SOON AS IS POSSIBLE ONCE VEGETATION IS WELL GROWN TO PREVENT BURNING THE VEGETATION THROUGH THE PLASTIC SHEETING.

COVER METHODS (5)(6)

PROTECT DISTURBED SLOPES BY MULCHING (2"-4" THICKNESS). THIS CAN BE DONE BEFORE OR AFTER PERMANENT SEEDING. THE TYPES OF MULCHES AVAILABLE ARE DESCRIBED BELOW (TAKEN FROM THE D.O.E. MANUAL):

STRAW - MOST COMMONLY USED IN CONJUNCTION WITH SEEDING. ITS USE IS RECOMMENDED WHERE IMMEDIATE PROTECTION IS REQUIRED SUFFICIENT PROTECTION TO ERODIBLE SOILS TO BE USED ALONE DURING THE HEAT OF SUMMER OR FOR LATE FALL SEEDINGS. WOOD FIBER HYDRO-SEED SLURRIES MAY BE USED TO TACK STRAW MULCH. THIS COMBINATION TREATMENT IS WELL SUITED FOR STEEP SLOPES AND CRITICAL AREAS.

WOOD CHIPS/BARK CHIPS - SUITABLE FOR AREAS THAT WILL NOT BE CLOSELY MOWED, AND AROUND ORNAMENTAL PLANTINGS. CHIPS DECOMPOSE SLOWLY AND DO NOT REQUIRE TACKING. WOOD CHIPS MUST BE TREATED WITH 12 POUNDS NITROGEN PER TON TO PREVENT NUTRIENT DEFICIENCY IN PLANTS (NOT NECESSARY FOR BARK). WOOD AND BARK CHIPS TEND TO WASH DOWN SLOPES OF MORE THAN 6 PERCENT AND CREATE PROBLEMS BY CLOGGING INLET GRATES, ETC. AND ARE THEREFORE NOT RECOMMENDED FOR USE IN THOSE AREAS.

WOOD FIBER - USED IN HYDRO-SEEDING OPERATIONS, APPLIED AS PART OF THE SLURRY. THIS FORM OF MULCH DOES NOT PROVIDE SUFFICIENT PROTECTION TO ERODIBLE SOILS TO BE USED ALONE DURING THE HEAT OF SUMMER OR FOR LATE FALL SEEDINGS. WOOD FIBER HYDRO-SEED SLURRIES MAY BE USED TO TACK STRAW MULCH. THIS COMBINATION TREATMENT IS WELL SUITED FOR STEEP SLOPES AND CRITICAL AREAS.

NETS AND MATS - USED ALONE, NETTING DOES NOT RETAIN SOIL MOISTURE OR MODIFY SOIL TEMPERATURE. IT STABILIZES THE SOIL SURFACE WHILE GRASSES ARE BEING ESTABLISHED, AND IS USEFUL IN GRASSED WATERWAYS AND ON SLOPES. LIGHT NETTING MAY ALSO BE USED TO HOLD OTHER MULCHES IN PLACE. ITS RELATIVELY HIGH COST MAKES IT MOST SUITABLE FOR SMALL SITES.

TEMPORARY COVER: (5)

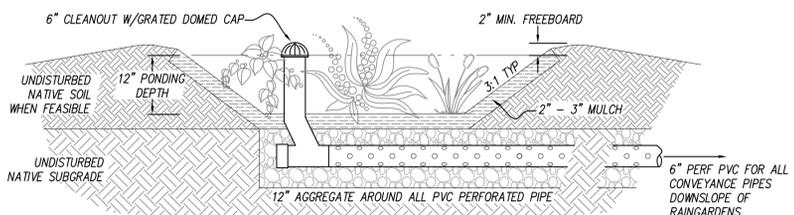
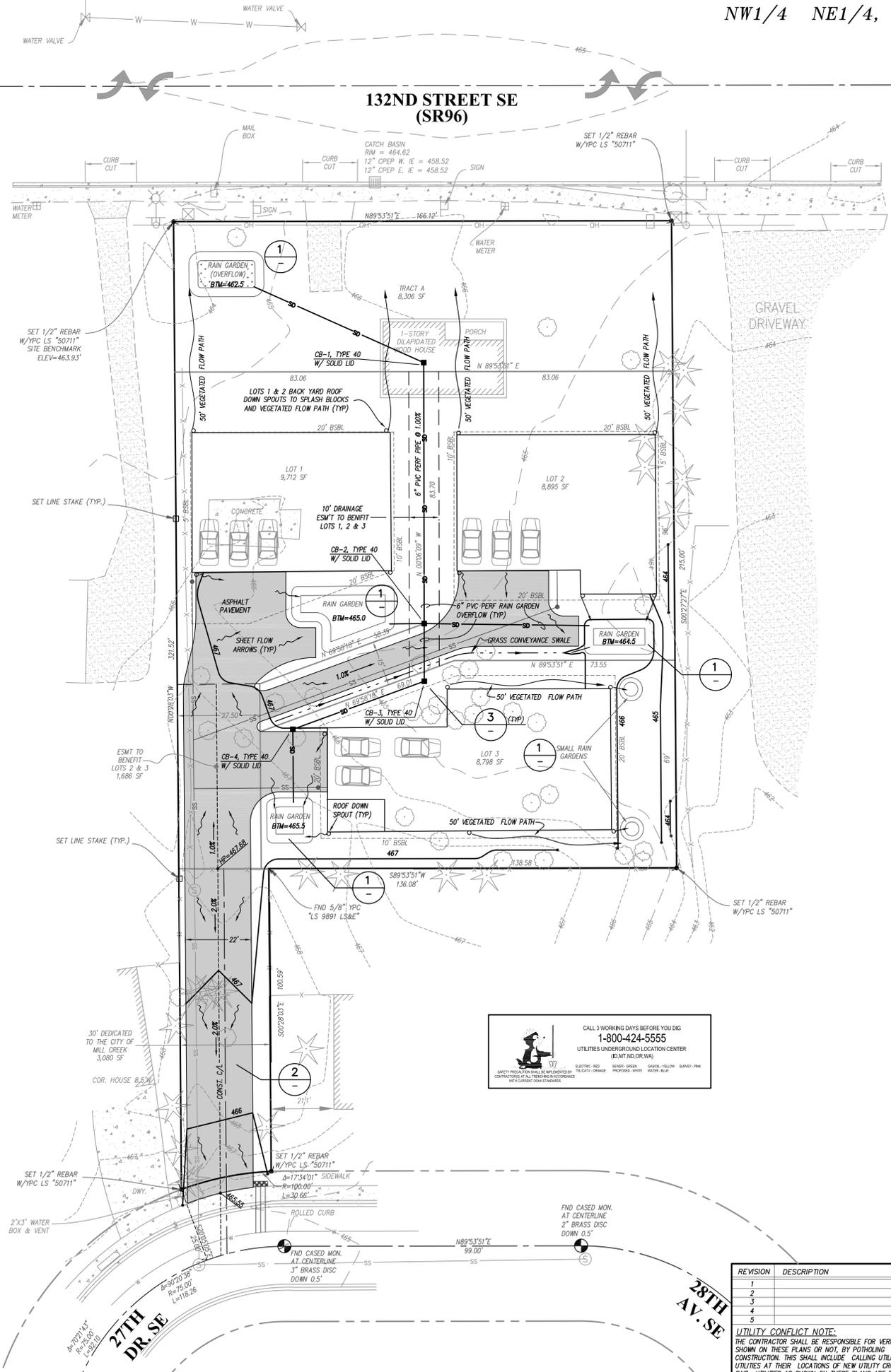
TEMPORARY SEED TO PROVIDE SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS WHICH WOULD REMAIN BARE FOR MORE THAN 7 DAYS (FROM MAY 1 TO SEPT. 30) OR 2 DAYS (FROM OCT. 1 TO APRIL 30) WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE. A MINIMUM OF 2-4 INCHES OF TILLED TOPSOIL IS REQUIRED FOR THE SEEDBED. PLANTING SHOULD PREFERABLY BE DONE BETWEEN APRIL 1 AND JUNE 30, AND SEPT 1 THROUGH OCT. 31. IF PLANTING IS DONE IN THE MONTHS OF JULY AND AUGUST, IRRIGATION MAY BE REQUIRED. IF PLANTING IS DONE BETWEEN NOV 1 AND MARCH 31, MULCHING SHALL BE REQUIRED IMMEDIATELY AFTER PLANTING. THE SEED MIX OF REDTOP(10%), ANNUAL RYE(40%), CHEWINGS FESCUE(40%), AND WHITE DUTCH CLOVER(10%) SHALL BE USED AS A GUIDE (SNOHOMISH COUNTY) TO APPROVE SEED MIX. "HYDRO-SEEDING" APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED. THE SOIL COVER METHODS LISTED UNDER "COVER DURING WINTER CONDITIONS" MAY ALSO BE USED AS TEMPORARY COVER AT ANY TIME.

REVISION	DESCRIPTION	DATE
1		
2		
3		
4		
5		

UTILITY CONFLICT NOTE:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT THEIR LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATION OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION.

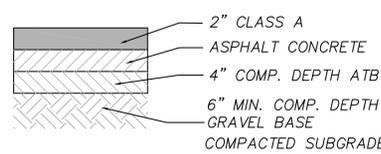
DONNA L. BRESKE, P.E.
 6621 FOSTER SLOUGH RD.
 SNOHOMISH, WA 98290
 PHONE (425) 334-9980

PRELIMINARY T.E.S.C., CLEARING & SWPP PLAN
 FOR
RAJ GILL 3 LOT SHORT PLAT
 TAX ID: 00747900005000 PFN:
 DEVELOPER: RAJ GILL, 4122 145TH PL. SE SNOHOMISH, WA 98296, PH: (425) 387-6322, EMAIL: rajdeep@comcast.net
 SCALE: 1" = 20' ISSUE DATE: 7-30-14 SHEET NO. 2 OF 3



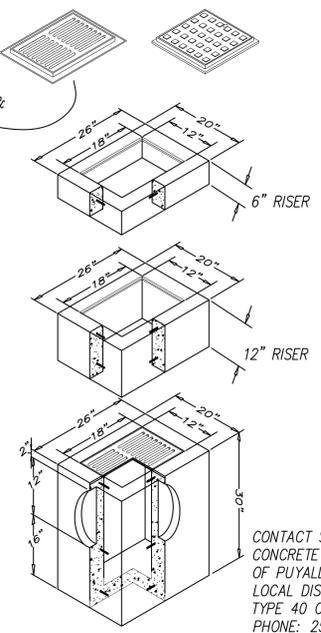
- NOTES:
1. RAIN GARDEN AREA DIMENSIONS MUST BE SHOWN ON DRAINAGE PLAN.
 2. AGGREGATE SHALL BE TYPE 22-5/8" - 3/4" CLEAR CRUSHED GRAVEL.
 3. RAIN GARDEN BOTTOM MINIMUM WIDTH IS 2 FEET.

RAIN GARDEN SECTION 1
N.T.S.



ASPHALT PAVEMENT SECTION 2
N.T.S.

USE THIS GRATE & LID TYPE FOR CB #2 LOCATED IN DRIVEWAY



CONTACT SHOPE CONCRETE PRODUCTS OF PUYALLUP, WA FOR LOCAL DISTRIBUTOR OF TYPE 40 CB
PHONE: 253-848-1551

CATCH BASIN, TYPE 40 3
N.T.S.

CALL 3 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
UTILITIES UNDERGROUND LOCATION CENTER
(800) 424-5555

UTILITY COLORS:
ELECTRIC - RED SEWER - GREEN GAS - YELLOW WATER - BLUE
TELEPHONE - ORANGE PROPOSED - WHITE

REVISION	DESCRIPTION	DATE
1		
2		
3		
4		
5		

UTILITY CONFLICT NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT THEIR LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATION OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION.



DONNA L. BRESKE, P.E.
6621 FOSTER SLOUGH RD.
SNOHOMISH, WA 98290
PHONE (425) 334-9980

PRELIMINARY ROAD, DRAINAGE & GRADING PLAN
FOR
RAJ GILL 3 LOT SHORT PLAT

TAX ID: 00747900005000 PFN:
DEVELOPER: RAJ GILL, 4122 145TH PL SE SNOHOMISH, WA 98296, PH: (425) 387-6322, EMAIL: rajdeep@comcast.net

SCALE: 1" = 20' ISSUE DATE: 7-30-14 SHT NO. 3 OF 3