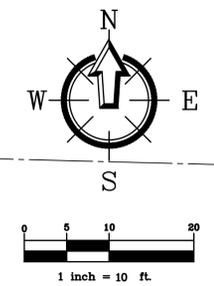




**SURVEY MONUMENT NOTE:**  
 CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS, WHICH INCLUDED PROPERTY CORNERS DURING CONSTRUCTION. ALL SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION SHALL BE IDENTIFIED AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEYING PRACTICES BY A WASHINGTON STATE LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR.

Show tree retention and replacement plan. Please show number of trees proposed to be removed and their diameter at breast height and species. Plans appear to show three trees to be removed, please verify. For every tree that is 6" dbh or greater, it must be replaced either in the ROW with a street tree permit, or on the subject lot. Note that at least two street trees are required and must be submitted through a Street Tree Permit. For trees that are retained, they must be protected using orange or highly visible protective fencing. Note also that if a tree is 36" dbh or greater it is considered a landmark tree and removal must be approved through the landmark tree committee.

FIELDING AVENUE



2500 Elm Street, Suite 1  
 Bellingham, WA 98225  
 t: 360.650.1408  
 f: 360.650.1401  
**FREELAND & ASSOCIATES**

**TESC CONTRACTOR RESPONSIBILITY**

1. TEMPORARY EROSION CONTROL BMPs SHOWN IN THESE PLANS ARE THE MINIMUM NECESSARY FOR PERMIT APPROVALS. ADDITIONAL BMPs MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ADDITIONAL BMPs OR BMP MAINTENANCE THAT MAY BE REQUIRED DURING CONSTRUCTION.

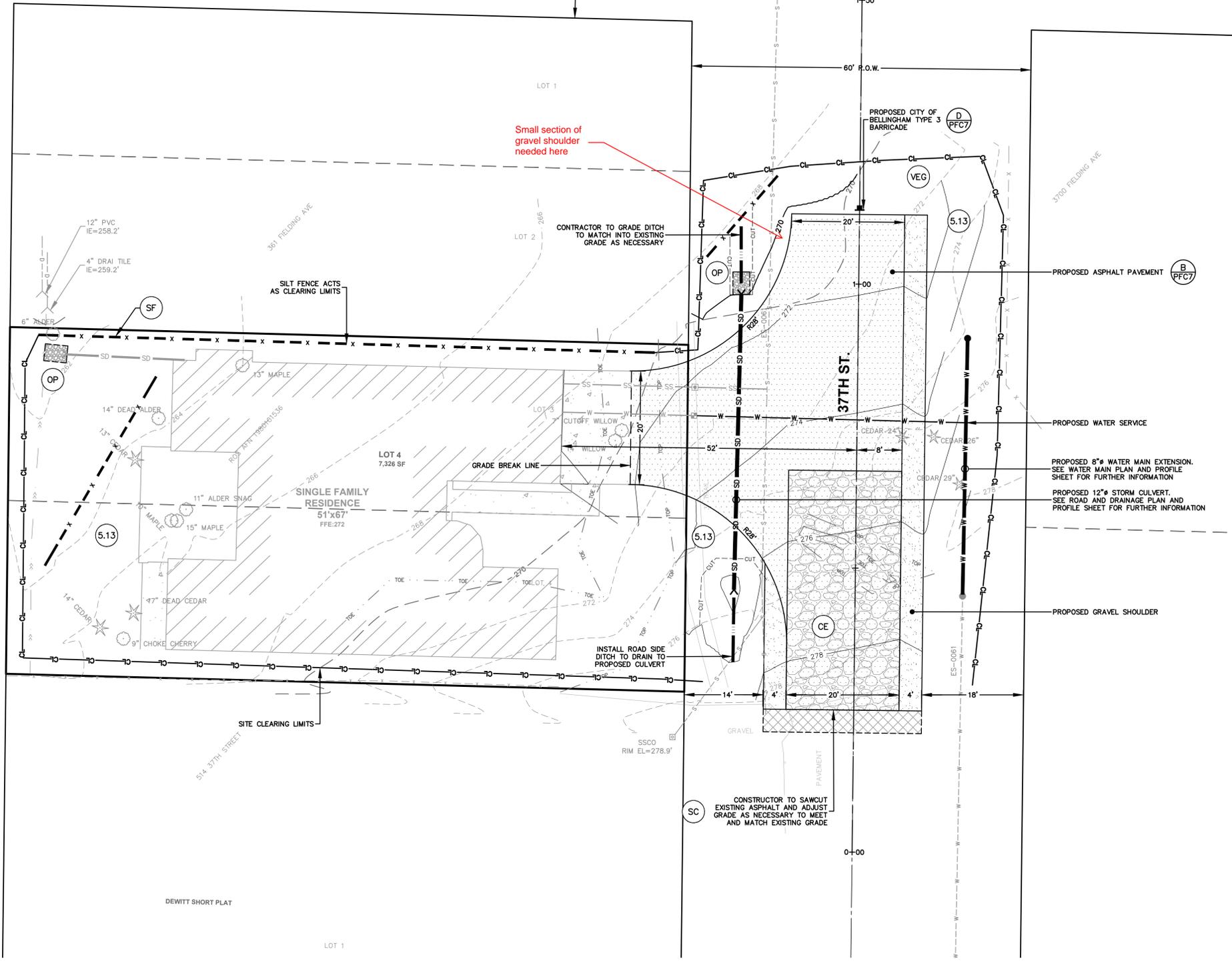
**TESC LEGEND**

- (VEG) WSDOE BMP C101 PRESERVING NATURAL VEGETATION
- (CE) WSDOE BMP C105 STABILIZED CONSTRUCTION EXIT
- (PK) WSDOE BMP C107 PARKING AREA STABILIZATION
- (PS) WSDOE BMP C120 TEMPORARY AND PERMANENT SEEDING
- (MU) WSDOE BMP C121 MULCHING
- (SC) WSDOE BMP C152 SAWCUTTING AND SURFACING POLLUTION
- (OP) WSDOE BMP C209 OUTLET PROTECTION
- (5.13) WSDOE BMP T5.13 SOIL AMENDMENT
- (SF) WSDOE BMP C233 SILT FENCE
- (CL) WSDOE BMP C103 OR BMP C104 CLEARING LIMITS

**TEMPORARY EROSION/SEDIMENTATION CONTROL**

1. A COPY OF THE APPROVED TESC PLAN MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. APPROVAL OF THIS TEMPORARY EROSION & SEDIMENTATION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STRUCTURES, DRIVEWAYS OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
3. THE IMPLEMENTATION OF THIS TESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING CONSTRUCTION, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION.
5. TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, UNLESS REVISED BY A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD. TESC FACILITIES SHALL BE INSTALLED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
6. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
7. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CESL AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
8. ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
9. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT THAT PRODUCES RUNOFF FROM THE SITE.
10. WASH PADS MAY BE NECESSARY TO ENSURE PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
11. MULCHING OF ANY TYPE SHALL BE INSTALLED PER THE RATES AND STANDARDS PRESENTED IN VOL. II, TABLE 4.1.8 OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, 2014 EDITION BY DEPARTMENT OF ECOLOGY.
12. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
13. EROSION & SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THIS PLAN. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE CONTRACTORS CESL OR ENGINEER OF RECORD.
14. COVER ALL DIRT/TOPSOIL PILES WITH PLASTIC SHEETING (BMP C123) DURING CONSTRUCTION WHEN NOT IN USE.
15. NETS AND/OR EROSION CONTROL BLANKETS (BMP C122) MAY BE USED IN LIEU OF TEMPORARY MULCHING.
16. CONSTRUCTION SCHEDULE- PENDING APPROVAL OF PLANS FROM THE CITY OF BELLINGHAM.
17. ADDITIONAL BMPs MAY BE USED OR REQUIRED AS CONDITIONS WARRANT. BMPs SHALL BE INSTALLED PER RECOMMENDATIONS IN THE DOE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, CURRENT EDITION.

ALLEY



BY:	
DESCRIPTION:	
REV:	
DATE:	

CLIENT:  
**MICHELLE FERRY**  
 1200 OLD FAIRHAVEN PKWY  
 BELLINGHAM, WA 98229  
 CALL BEFORE YOU DIG  
 FOR BURIED UTILITY LOCATIONS  
 1-800-424-5655

PROJECT LOCATION:  
**510 37TH STREET**  
 510 37TH STREET  
 BELLINGHAM, WA 98229  
 DRAWN BY: JDP  
 CHECKED BY: HAF  
 DESIGNED BY: HAF

SHEET CONTENTS:  
**SITE & TESC PLAN**



JOB #: 24158  
 DATE: 02-12-2025

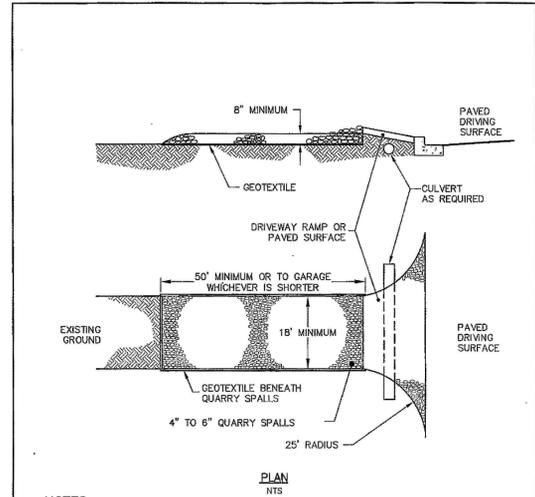
SHEET: **PFC2**

PFC2025-XXXX

- ELEMENT 1: PRESERVE VEGETATION/MARK CLEARING LIMITS.**
- PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, ALL CLEARING LIMITS, SENSITIVE AREAS AND THEIR BUFFERS, AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA SHOULD BE CLEARLY MARKED, BOTH IN THE FIELD AND ON THE PLANS, TO PREVENT DAMAGE AND OFF-SITE IMPACTS. PLASTER, METAL, OR STAKE WIRE FENCE MAY BE USED TO MARK THE CLEARING LIMITS. RETAIN THE DUFF LAYER, NATIVE TOP SOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICABLE.
- ELEMENT 2: ESTABLISH CONSTRUCTION ACCESS.**
- CONSTRUCTION VEHICLES WILL ACCESS THE SITE FROM 37TH STREET.
  - A TYPICAL CONSTRUCTION ENTRANCE HAS BEEN SPECIFIED. CONTRACTOR TO UTILIZE EXISTING STRIP. IF CONTRACTOR NOTICES SEDIMENT LEAVING THE SITE A CONSTRUCTION ENTRANCE SHALL BE INSTALLED PER COB DETAIL EC-605 OR AN EQUIVALENT LENGTH OF SHAKER PLATES.
  - WHEEL WASHES OR TIRE BATHS DO NOT APPEAR TO BE NECESSARY IF A STABILIZED PARKING AREA IS PROVIDED ON SITE. IF DEEMED NECESSARY DURING CONSTRUCTION, TIRE BATHS OR WHEEL WASHES WILL BE LOCATED ON SITE.
  - ANY SEDIMENT THAT IS TRACKED OR OTHERWISE DEPOSITED ONTO PAVED SURFACES SHALL BE THOROUGHLY CLEANED AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM PAVED AREAS BY SHOVELING OR VACUUM SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
  - STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THE MANNER DESCRIBED IN PART d) ABOVE.
- ELEMENT 3: CONTROL FLOW RATES.**
- STORMWATER FLOW CONTROL IS NOT REQUIRED FOR THIS PROJECT. THE RISK OF STORMWATER LEAVING THE SITE IS LOW SINCE THE CONSTRUCTION IS MINIMAL. TEMPORARY STORAGE DEPRESSIONS OR SEDIMENT TRAPS MAY BE CONSTRUCTED IF STORMWATER RUNOFF FLOWS ARE OBSERVED DURING CONSTRUCTION. IN ADDITION, MATERIAL FROM ALL EXCAVATIONS AND TRENCHES SHALL BE LOCATED ON THE UPHILL SIDE OF THE EXCAVATED AREAS AS MUCH AS SAFELY POSSIBLE. THE CONTRACTOR OR, IF USED ON SITE, THE CERTIFIED EROSION AND SEDIMENTATION CONTROL LEAD (CESCL) WILL BE RESPONSIBLE TO DETERMINE IF TEMPORARY STORMWATER STORAGE IS REQUIRED DURING CONSTRUCTION.
  - NO CONVEYANCE ISSUES WERE FOUND DOWNSTREAM OF THE PROJECT.
- ELEMENT 4: INSTALL SEDIMENT CONTROLS.**
- CONTRACTOR SHALL STOCKPILE EXISTING TOPSOIL AND REDISTRIBUTE TO LANDSCAPED AREAS AS MUCH AS PRACTICABLE. NATIVE TOPSOIL AND NATURAL VEGETATION SHALL BE PRESERVED TO THE GREATEST EXTENT PRACTICABLE DURING CONSTRUCTION.
  - A TEMPORARY SEDIMENT POND DOES NOT APPEAR TO BE NECESSARY DURING CONSTRUCTION. THE RISK OF STORMWATER LEAVING THE SITE IS LOW SINCE MOST OF THE SITE IS FLAT. THE CONTRACTOR MAY USE ANY OTHER APPLICABLE SEDIMENT CONTROLS, SUCH AS SEDIMENT TRAPS OR POND, AS NECESSARY FOR SITE CONDITIONS DURING CONSTRUCTION.
- ELEMENT 5: STABILIZE SOILS.**
- EXISTING VEGETATION SHALL BE RETAINED AS MUCH AND AS LONG AS POSSIBLE. ALL AREAS OF EXPOSED SOIL WITHIN THE WORK LIMITS SHALL BE STABILIZED BY APPLICATION OF BMPs (IDENTIFIED BELOW) THAT PROTECT SOIL FROM THE EROSION FORCES OF RAINFALL IMPACTS, FLOWING WATER, AND WIND EROSION. REFER TO THE TIMING REQUIREMENTS IDENTIFIED BELOW. SOIL PILES SHOULD BE COVERED WITH PLASTIC OR ROLLED EROSION CONTROL PRODUCTS WHEN NOT IN USE.
  - BETWEEN OCTOBER 1 AND APRIL 30, NO SOIL SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. FROM MAY 1 THROUGH SEPTEMBER 30, NO SOIL SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS.
  - APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY OR PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, AND DUST CONTROL.
  - SOIL STABILIZATION MEASURES SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND POTENTIAL WATER QUALITY IMPACTS THAT STABILIZATION AGENTS MAY HAVE ON DOWNSTREAM WATERS OR GROUNDWATER.
  - SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES. AS RECOMMENDED IN ELEMENT 4, EXCAVATED SOIL MATERIAL SHOULD BE PLACED UPHILL FROM THE EXCAVATED AREAS.
  - PROPOSED WORK IS LINEAR AND WILL BE UNDER THE CONTROL OF ONE GENERAL CONTRACTOR.
  - AT THE DISCRETION OF CITY OF BELLINGHAM PUBLIC WORKS DIRECTOR, SITES THAT ARE UNABLE TO MAINTAIN ADEQUATE WATER QUALITY IN THEIR STORMWATER DISCHARGES MAY BE REQUIRED TO PROVIDE SOIL STABILIZATION TO ALL EXPOSED SOIL AREAS REGARDLESS OF THE WORKING STATUS OF THE AREA. UPON WRITTEN NOTIFICATION, THE PROPERTY OWNER SHALL PROVIDE FULL STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 24 HOURS.
  - CONTRACTOR TO MINIMIZE SOIL COMPACTION AND TO MAXIMUM EXTENT PRESERVE TOPSOIL.

- ELEMENT 6: PROTECT SLOPES.**
- CUT AND FILL SLOPES ARE ANTICIPATED AS PART OF THIS PROJECT. THEREFORE, SUBSECTIONS OF ELEMENT 6 (AS IDENTIFIED IN BELLINGHAM MUNICIPAL CODE 15.42.060(2-a)) HAVE BEEN APPLIED TO THIS PROJECT. SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION.
- ELEMENT 7: PROJECT DRAIN INLETS.**
- ALL EXISTING AND PROPOSED CATCH BASINS THAT MAY RECEIVE RUNOFF FROM THE SITE, EITHER DURING OR AFTER CONSTRUCTION, SHALL BE PROTECTED WITH CATCH BASIN FILTRATION INSERTS. CATCH BASINS THAT REQUIRE PROTECTION ARE IDENTIFIED IN THE TEMPORARY EROSION CONTROL PLAN DRAWING WITHIN THE CIVIL SITE PLANS.
  - ALL APPROACH ROADS SHALL BE KEPT CLEAN AND ALL SEDIMENT AND STREET WASH WATER SHALL NOT BE ALLOWED TO ENTER STORM DRAINS WITHOUT PRIOR AND ADEQUATE TREATMENT UNLESS TREATMENT IS PROVIDED BEFORE THE STORM DRAIN DISCHARGES TO WATERS OF THE STATE.
- ELEMENT 8: STABILIZE CHANNELS AND OUTLETS.**
- IF ANY TEMPORARY DRAINAGE CHANNELS ARE USED DURING CONSTRUCTION, THE CHANNELS SHALL BE DESIGNED AND BUILT TO PREVENT EROSION FROM THE EXPECTED VELOCITY FLOW FROM A 2-YEAR, 24-HOUR STORM EVENT FOR THE DEVELOPED CONDITION.
  - AN EXISTING STABILIZED STORM DRAIN SYSTEM OPERATED BY THE CITY OF BELLINGHAM IS PRESENT AND SHALL BE PROTECTED FROM ANY CONVEYANCE OF STORMWATER RUNOFF IN CHANNELS. NO ADDITIONAL CHANNEL STABILIZATION IS REQUIRED OR PROPOSED FOR THIS PROJECT.
- ELEMENT 9: CONTROL POLLUTANTS.**
- ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT CONTAMINATE STORMWATER.
  - COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE.
  - MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
  - WHEEL WASH, OR TIRE BATH WASTEWATER, SHALL BE DISCHARGED TO A SEPARATE ON-SITE TREATMENT SYSTEM OR TO THE SANITARY SEWER.
  - AGRICULTURAL CHEMICALS WILL NOT BE APPLIED AT THIS SITE.
  - WASHOUT OF CONCRETE TRUCKS WILL ONLY BE ALLOWED WITHIN SPECIALLY CONSTRUCTED WASHOUT AREAS OR FORMED AREAS AWAITING INSTALLATION OF CONCRETE. IF SITE CONDITIONS PREVENT WASHOUT INTO INTO CONTAINED AREAS OR FORMED AREAS, THEN ANY UNUSED CONCRETE IN THE TRUCK SHALL BE RETURNED TO THE BATCH PLANT FOR RECYCLING. HAND TOOLS, INCLUDING SCREEDS, SHOVELS, RAKES, FLOATS, OR TROWELS SHALL BE WASHED OFF ONLY INTO THE CONTAINED AREAS OR FORMED AREAS AWAITING INSTALLATION OF CONCRETE.
- ELEMENT 10: CONTROL DE-WATERING.**
- NO DE-WATERING IS PROPOSED AT THIS TIME. IF DE-WATERING IS REQUIRED DISCHARGE TO CHANNELS THAT ARE STABILIZED, AS SPECIFIED IN ELEMENT NO. 8.
  - CLEAN, NONURID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS, AS SPECIFIED IN ELEMENT NO. 8, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF THE RECEIVING WATERS. THESE CLEAN WATERS SHOULD NOT BE ROUTED THROUGH SEDIMENT PONDS WITH STORMWATER.
  - HIGHLY TURBID OR OTHERWISE CONTAMINATED DE-WATERING WATER, SUCH AS FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM, SHALL BE HANDLED SEPARATELY FROM STORMWATER AT THE SITE.
  - OTHER DISPOSAL OPTIONS, DEPENDING ON SITE CONSTRAINTS, MAY INCLUDE, BY WAY OF EXAMPLE: (1) INFILTRATION, (2) TRANSPORT OFF SITE IN VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS, (3) ON-SITE TREATMENT USING ECOLOGY APPROVED CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES, (4) SANITARY OR COMBINED SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, OR THERE IS NO OTHER OPTION, (5) USE OF A SEDIMENTATION BAG THAT DISCHARGES TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DE-WATERING.

- ELEMENT 11: MAINTAIN BMPs.**
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH BMP SPECIFICATIONS.
  - SEDIMENT CONTROL BMPs SHALL BE INSPECTED WEEKLY OR AFTER A RUNOFF-PRODUCING STORM EVENT DURING THE DRY SEASON AND DAILY DURING THE WET SEASON.
  - ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED.
- ELEMENT 12: MANAGE THE PROJECT.**
- THE PROPOSED IMPROVEMENTS WILL BE BUILT IN A SINGLE PHASE. NO FURTHER DEVELOPMENT IS PROPOSED AT THIS TIME.
  - DISTURBED AREAS WILL BE REVEGETATED WITH TREES, SHRUBS, AND GROUND COVER SPECIES.
  - ALL UTILITIES SHALL BE TAKEN INTO ACCOUNT WHEN MODIFYING THE SWPPP.
  - ALL BMPs SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
  - THIS PROJECT WILL NOT DISTURB MORE THAN ONE ACRE OF SOIL. A CERTIFIED EROSION AND SEDIMENTATION CONTROL LEAD (CESCL) IS NOT REQUIRED TO MONITOR AND INSPECT BMPs THAT WILL NOT BE USED DURING CONSTRUCTION.
  - WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPs IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO ACTUAL DISCHARGE OF OR POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT, THE SWPPP SHALL BE MODIFIED AS APPROPRIATE, IN A TIMELY MANNER.
  - THIS CONSTRUCTION SWPPP SHALL BE RETAINED ON-SITE. THIS SWPPP SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.
- ELEMENT 13: LOW IMPACT DEVELOPMENT.**
- BMP T5.13 IS PROPOSED FOR THIS PROJECT. PROTECT COMPLETED LAWN AND LANDSCAPE AREAS FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT.



**NOTES:**

- PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE CITY.
- PAD SHALL BE INSTALLED IN PLANTING STRIP AS APPROPRIATE.
- PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF THE CITY.
- MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF THE CITY.

APPROVED <i>Royl North</i> City Engineer	DATE 11/29/14	CITY OF BELLINGHAM TEMPORARY CONSTRUCTION EXIT-SINGLE FAMILY	DRAWING EC-605
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**(A) STORMWATER POLLUTION PROTECTION PLAN**

**(B) CONSTRUCTION ENTRANCE**

**BMP C152: Sawcutting and Surfacing Pollution Prevention**

**Purpose**  
Sawcutting and surfacing operations generate slurry and process water that contains fine particles and high pH (concrete cutting), both of which can violate the water quality standards in the receiving water. Concrete spillage or concrete discharge to surface waters of the State is prohibited. Use this BMP to minimize and eliminate process water and slurry created through sawcutting or surfacing from entering waters of the State.

**Conditions of Use**  
Utilize these management practices anytime sawcutting or surfacing operations take place. Sawcutting and surfacing operations include, but are not limited to, the following:

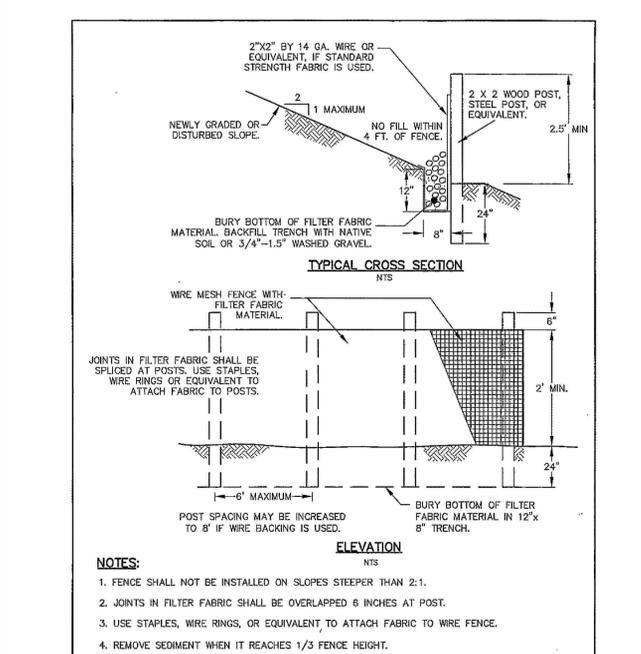
- Sawing
- Coring
- Grinding
- Roughening
- Hydro-demolition
- Bridge and road surfacing
- Vacuum slurry and cuttings during cutting and surfacing operations.

**Design and Installation Specifications**

- Slurry and cuttings shall not remain on permanent concrete or asphalt pavement overnight.
- Slurry and cuttings shall not drain to any natural or constructed drainage conveyance including stormwater systems. This may require temporarily blocking catch basins.
- Dispose of collected slurry and cuttings in a manner that does not violate ground water or surface water quality standards.
- Do not allow process water generated during hydro-demolition, surface roughening or similar operations to drain to any natural or constructed drainage conveyance including stormwater systems. Dispose process water in a manner that does not violate ground water or surface water quality standards.
- Handle and dispose cleaning waste material and demolition debris in a manner that does not cause contamination of water. Dispose of sweeping material from a pick-up sweeper at an appropriate disposal site.

**Maintenance Standards**  
Continually monitor operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and vacuum trucks.

Volume II - Construction Stormwater Pollution Prevention - August 2012  
4-44



APPROVED <i>Royl North</i> City Engineer	DATE 11/29/14	CITY OF BELLINGHAM REINFORCED SILT FENCE	DRAWING EC-615
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**Planting Bed Cross-Section**  
Revised June 2016

Reprinted from *Guidelines and Resources For Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington*, 2010, Washington Organic Recycling Council

NOT TO SCALE

DEPARTMENT OF ECOLOGY  
State of Washington

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**GENERAL NOTES**

ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH IS NOT THE SAME AS PRESERVATION OF NATURALLY OCCURRING SOIL AND VEGETATION. HOWEVER, ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH WILL PROVIDE IMPROVED ON-SITE MANAGEMENT OF STORMWATER FLOW AND WATER QUALITY. SOIL ORGANIC MATTER CAN BE ATTAINED THROUGH NUMEROUS MATERIALS SUCH AS COMPOST, COMPOSTED WOODY MATERIAL, BIOSOLIDS, AND FOREST PRODUCT RESIDUALS. IT IS IMPORTANT THAT THE MATERIALS USED TO MEET THE SOIL QUALITY AND DEPTH BMP BE APPROPRIATE AND BENEFICIAL TO THE PLANT COVER TO BE ESTABLISHED. LIKEWISE, IT IS IMPORTANT THAT IMPORTED TOPSOILS IMPROVE SOIL CONDITIONS AND DO NOT HAVE AN EXCESSIVE PERCENTAGE OF CLAY FINES. THIS BMP CAN BE CONSIDERED INFEASIBLE ON TILL SOIL SLOPES GREATER THAN 33 PERCENT.

**DESIGN GUIDELINES**

SOIL RETENTION: RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

SOIL QUALITY: 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:

- 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.
- MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
- USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
  - THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIOPRETENTION (BMP 17-30), 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.
  - CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIALS MEETING (A) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND MEETING THE CONTAMINANT STANDARDS OF GRADE A COMPOST. 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:

- LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
- 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.
- STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
- 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.

**(C) SAWCUTTING & SURFACE POLLUTION**

**(D) SILT FENCE**

**(E) SOIL AMENDMENTS - BMP T5.13**

**FREELAND & ASSOCIATES**  
2500 Elm Street, Suite 1  
Bellingham, WA 98225  
t: 360.650.1498  
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CLIENT: MICHELLE FERRY  
1200 OLD FAIRHAVEN PKWY  
BELLINGHAM, WA 98225  
CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5655

PROJECT LOCATION: 510 37TH STREET  
510 37TH STREET  
BELLINGHAM, WA 98229

SHEET CONTENTS: SWPPP & TESC DETAILS

DRAWN BY: JDP  
CHECKED BY: HAF

DRAWING #: 2415BSP1.DWG  
DESIGNED BY: HAF

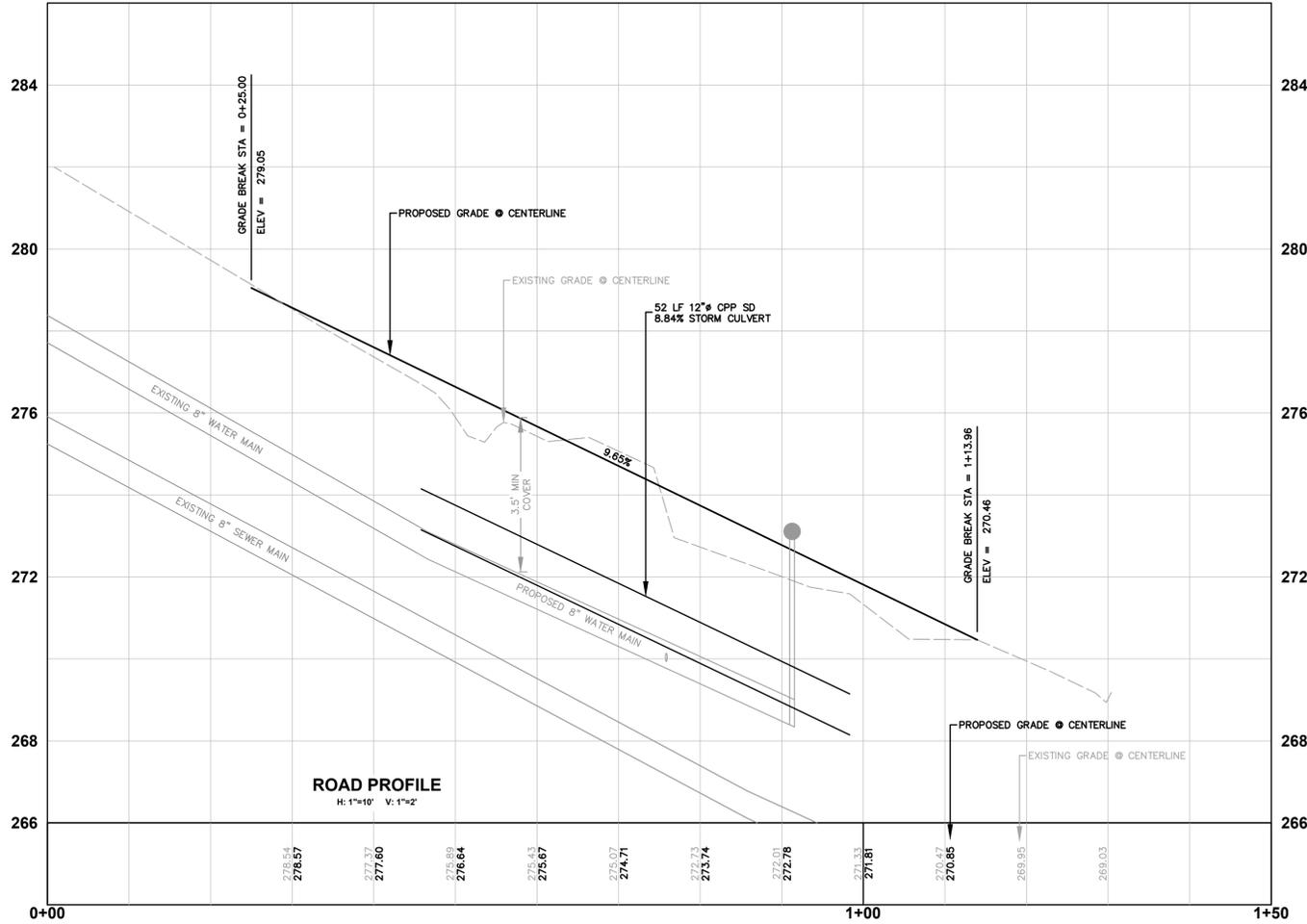
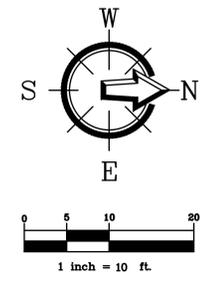
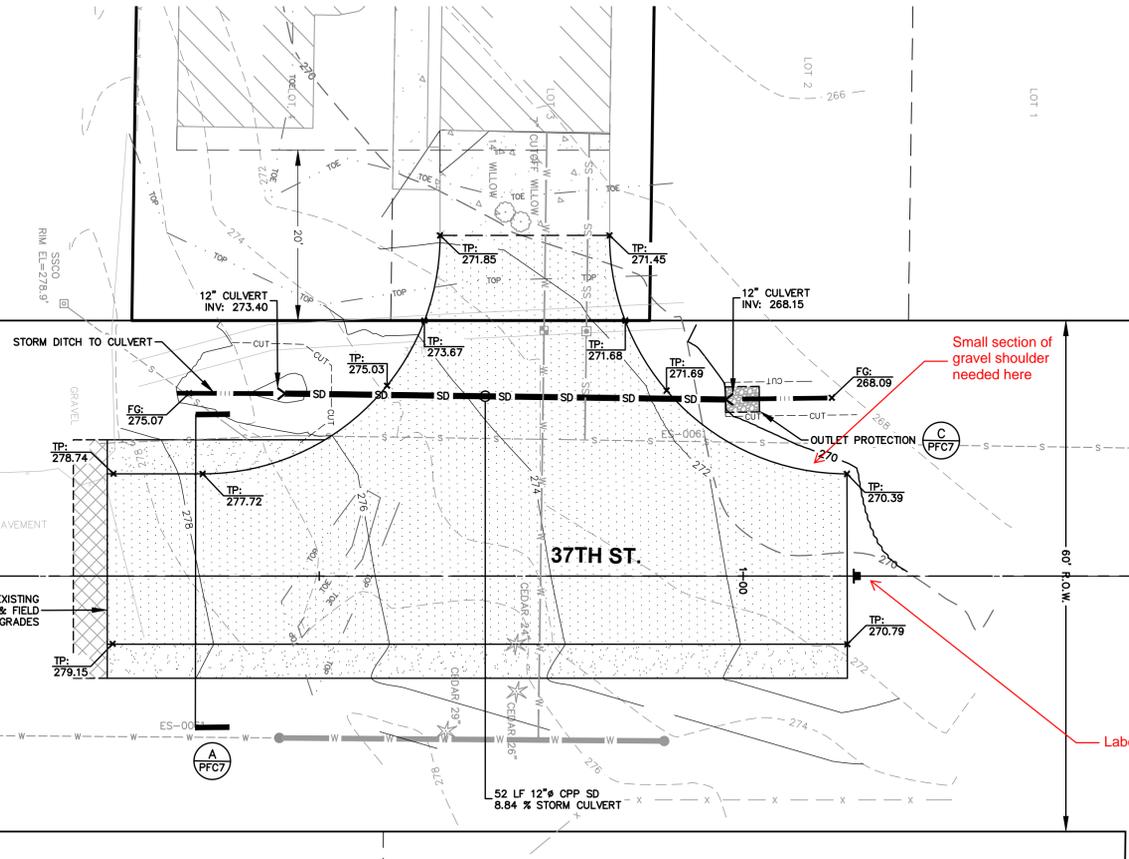
JOB #: 24158  
DATE: 02-12-2025

SHEET: PFC3

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**SURVEY MONUMENT NOTE:**  
 CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS, WHICH INCLUDED PROPERTY CORNERS DURING CONSTRUCTION. ALL SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION SHALL BE IDENTIFIED AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEYING PRACTICES BY A WASHINGTON STATE LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR.



REV.	DATE	DESCRIPTION

**CLIENT:**  
**MICHELLE FERRY**  
 1200 OLD FAIRHAVEN PKWY  
 BELLINGHAM, WA 98225  
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 BELLINGHAM, WA 98229

**DRAWING #:** JDP  
**DESIGNED BY:** HAF  
**CHECKED BY:** HAF

**SHEET CONTENTS:**  
**ROAD & DRAINAGE PLAN & PROFILE**



**JOB #:** 24158  
**DATE:** 02-12-2025  
**SHEET:** PFC5

PFC2025-XXXX

### BEDDING SPECIFICATIONS FOR DUCTILE IRON PIPE

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS ARE TO BE USED IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION:

**BEDDING FOR WATERMAINS FOR DUCTILE IRON PIPE--**  
 BEDDING MATERIAL FOR DUCTILE IRON PIPE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS.

PIPE ZONE BEDDING - BEDDING SHALL BE A CLEAN GRANULAR MATERIAL FREE FROM ORGANIC MATTER AND CONFORMING TO THE STANDARD SPECIFICATION: 9-03.12(3), GRAVEL BACKFILL FOR PIPE ZONE BEDDING.

BACKFILL - WHEREVER A TRENCH IS EXCAVATED IN THE EXISTING OR PROPOSED ROADWAY, SIDEWALK OR OTHER AREAS WHERE SETTLEMENT WOULD BE DETRIMENTAL, THE ENTIRE TRENCH SHALL BE BACKFILLED WITH IMPORTED GRAVEL AND COMPACTED TO 95% OF MAXIMUM DENSITY.

APPROVED  City Engineer	CITY OF BELLINGHAM WATER PIPE BEDDING DETAILS	DRAWING WA-820
12/28/2016 Date		

**A** WATER PIPE BEDDING  
nts

APPROVED  City Engineer	CITY OF BELLINGHAM BLOW OFF FOR FUTURE WATER MAIN EXTENSIONS	DRAWING WA-810
2/13/10 Date		

**B** BLOW OFF VALVE  
nts

APPROVED  City Engineer	CITY OF BELLINGHAM 1 inch SINGLE WATER SERVICE IN METER BOX	DRAWING WA-830
30 Aug 2016 Date		

**C** WATER SERVICE IN METER  
nts

1. EXISTING P.C.C. PAVEMENT
2. EXISTING HMA OVERLAY/HMA BASE OR P.C.C.
3. EXISTING OIL MAT OR ASPHALT CONCRETE PAVEMENT

**NOTES:**  
 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF BELLINGHAM'S STANDARD SPECIFICATIONS FOR UTILITY CUTS IN STREET AREA.  
 PAVEMENT OVERLAYS No. 2 AND 3, TACK ALL EDGES AND HMA BASE SURFACE BEFORE PLACING HMA PAVEMENT. SEAL ALL JOINTS WITH HOT ASPHALT (AR-4000W) BETWEEN EXISTING AND NEW HMA PAVEMENT IMMEDIATELY AFTER FINISH ROLLING.  
 CONTRACTOR SHALL MATCH EXISTING SURFACES THAT ARE COLORED, TEXTURED, STAMPED OR INLaid WITH BRICK.

APPROVED  City Engineer	CITY OF BELLINGHAM HORIZONTAL PAVEMENT REPAIR (STREET CROSSINGS)	DRAWING ST-180
12/16/19 Date		

**D** HORIZONTAL PAVEMENT REPAIR  
nts

2500 Elm Street, Suite 1  
Bellingham, WA 98225  
t. 360.650.1408  
f. 360.650.1401

**FREELAND & ASSOCIATES**

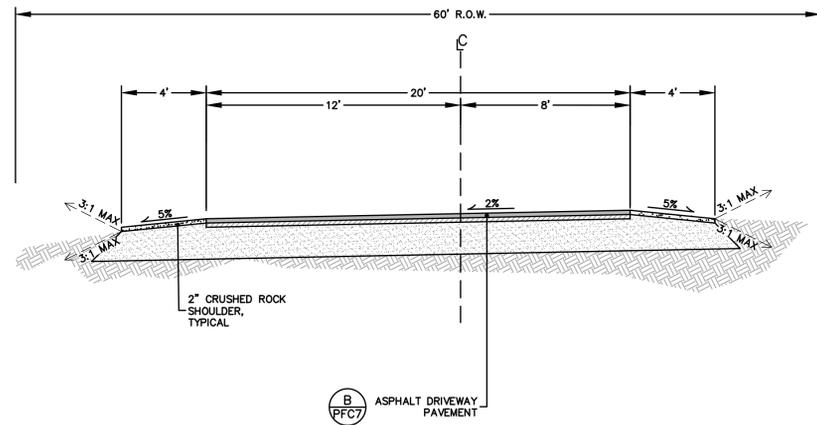
BY:	DESCRIPTION:	REV:	DATE:

<p><b>MICHELLE FERRY</b> 1200 OLD FAIRHAVEN PKWY BELLINGHAM, WA 98225</p> <p>CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS 1-800-424-5655</p>	<p>CLIENT:</p> <p><b>510 37TH STREET</b> 510 37TH STREET BELLINGHAM, WA 98229</p> <p>DRAWING #: 24158SP1.DWG</p> <p>DESIGNED BY: HAF</p> <p>DRAWN BY: JDP</p> <p>CHECKED BY: HAF</p>
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**PROJECT DETAILS**

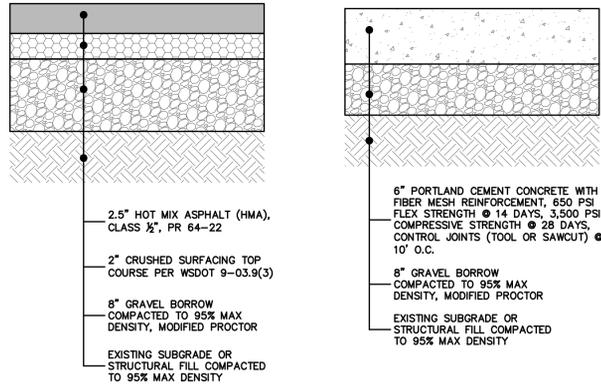
JOB #: 24158	DATE: 02-12-2025
SHEET: <b>PFC6</b>	

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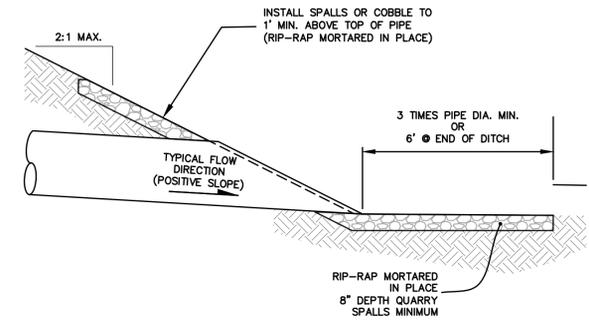


**A** 37TH STREET EXTENSION SECTION  
nts

- NOTES**
1. ALL DEPTHS REPRESENT COMPACTED DEPTHS.
  2. REMOVE ALL TOPSOIL AND UNSUITABLE NATIVE SOIL FROM THE ROAD AND SLOPE PRISM.
  3. IN FILL SECTIONS EXTEND GRAVEL BASE TO UNYIELDING NATIVE SUBGRADE. PLACE GRAVEL BASE IN 12" MAX LIFTS AND COMPACT LIFT TO 95% MAX. DENSITY.
  4. FOR CONCRETE PAVEMENT CONTROL JOINTS SHALL BE 1/4 DEPTH OF SLAB. ALL CONSTRUCTION JOINT SHALL BE DOWELED.

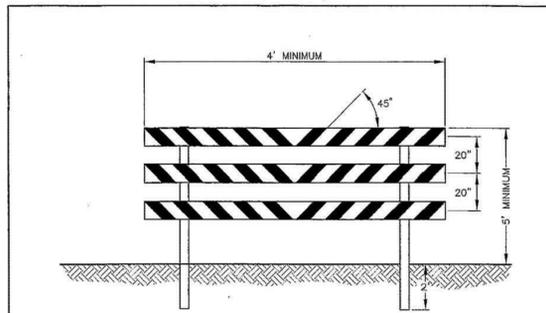


**B** PAVEMENT SECTIONS  
nts



**NOTE:**  
THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER TO FINALIZE STABILIZATION MEASURES & QUARRY SPALL SIZE BASED ON OBSERVATIONS DURING CONSTRUCTION.

**C** PIPE ARMORING



- NOTES:**
- WIDTH OF RAIL = 8" TO 12"
  - LENGTH OF RAIL = 4' MIN. TO 8' MAX.
  - WIDTH OF STRIPES = 6"
  - HEIGHT = 5' MIN.
  - TYPE OF FRAME = 4"x4" POST BURIED 2' DEEP
  - COLOR = RED ON WHITE, FULLY REFLECTORIZED

APPROVED <i>[Signature]</i> City Engineer	CITY OF BELLINGHAM TYPE 3 BARRICADE	DRAWING TC-325
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**D** BARRICADE  
nts

WA-858

DR-538

DR-539



2500 Elm Street, Suite 1  
Bellingham, WA 98225  
t: 360.650.1408  
f: 360.650.1401  
**FREELAND & ASSOCIATES**

BY:	
DESCRIPTION:	
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**SHEET CONTENTS:**  
**PROJECT DETAILS**



**JOB #:** 24158  
**DATE:** 02-12-2025  
**SHEET:**

**PFC7**

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