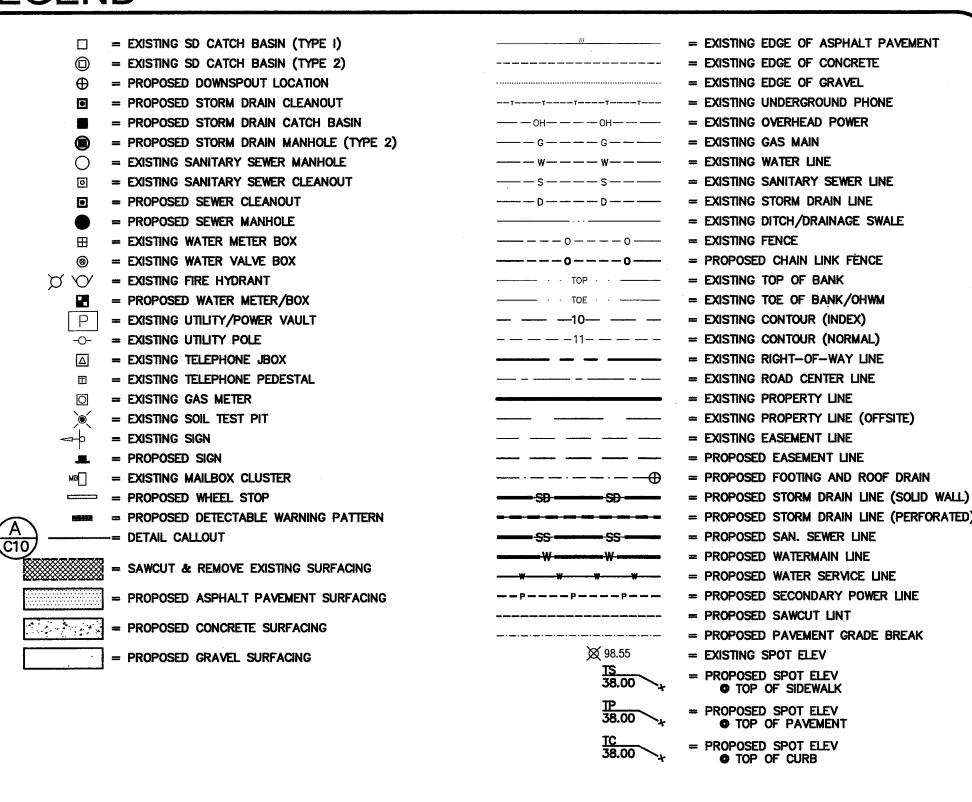
PORTAL WAY RETAIL MARIJUANA STORE

6061 PORTAL WAY

BEING A PTN. OF THE NE1/4, NW 1/4, SEC. 30, TWP. 39N., RGE. 02 E., W.M., CITY OF FERNDALE, WHATCOM COUNTY, STATE OF WASHINGTON

LEGEND



SHEET INDEX

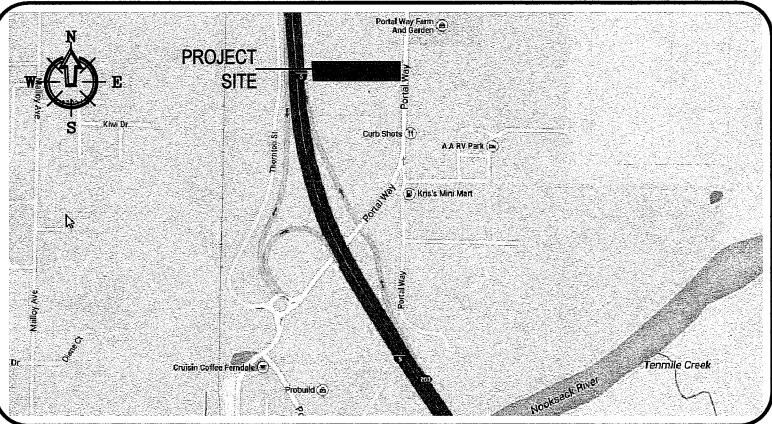
- **COVER SHEET**
- **EXISTING CONDITIONS**
- **TESC PLAN**
- TESC DETAILS AND SWPPP
- SITE PLAN
- **GRADING AND DRAINAGE PLAN**
- PAVING AND DRAINAGE DETAILS
- **UT1 UTILITY PLAN**
- **UT2** WATER, SANITARY SEWER, AND MISCELLANEOUS DETAILS
- PORTAL WAY FRONTAGE PLAN AND PROFILE
- PORTAL WAY FRONTAGE DETAILS
- PORTAL WAY FRONTAGE DETAILS

SURVEY

THIS SURVEY TIED INTO THE EXISTING COTTON-GIN SPIKE AT THE NORTH QUARTER CORNER OF SEC. 17, TWP. 39 NORTH, RGE. 2 EAST., W.M. AND THE EXISTING LOT CORNERS ON PORTAL WAY. BASIS OF BEARING PER "LIVERMORE SHORT PLAT", FILED UNDER WHATCOM COUNTY AUDITOR'S FILE NO.

- THIS SURVEY WAS PERFORMED BY STANDARD FIELD TRAVERSE, USING A PENTAX PTS-V5 TOTAL STATION WITH A CARLSON SURVEYOR+ DATA COLLECTOR/FIELD COMPUTER.
- 3. DATE OF SURVEY: **NOVEMBER 11, 2014**
- I. BASIS OF BEARING: LIVERMORE SHORT PLAT, A.F. NO.
- . HORIZONTAL DATUM: ON THE CITY OF FERNDALE HORIZONTAL CONTROL NETWORK DATUM (NAD 83/91), THE INVERSE BEARING FROM THE NORTHEAST CORNER OF PARCEL NUMBER 390220 229484 0000 (BEING N: 683890.84 E: 1218797.75) TO THE C.O.F. CONTROL MON. NO. "FERN-06" (N: 685483.06 E: 12189383.40) IS 1598.42' N05°02'54"E.
- ON THE CITY OF FERNDALE VERTICAL CONTROL NETWORK (NGVD 29), THE ELEVATION OF OF THE N. 1/4 CORNER OF SAID SECTION 17 IS
- 7. LEGAL DESCRIPTION: SEE SHEET EX1

VICINITY MAP



PROJECT INFORMATION

OWNER PETER & EMIKO GRUBB 2509 MILL AVENUE BELLINGHAM, WA 98225 (360) 594-1122

emikog_952@comcast.ne

SURVEYOR CHRISTIE & CHRISTIE LAND SURVEYING, INC BRIAN CHRISTIE, PLS 222 GRAND AVENUE, SUITE I

BELLINGHAM, WA 98225

(360) 671-8855 christiesg©hotmail.com

ARCHITECT BUILDING DESIGN SERVICES DEBORAH TODD 888 CHUCKANUT DRIVE BELLINGHAM, WA 98229 (360) 671-0529

TAX PARCEL 390220 229484 0000

CIVIL ENGINEER FREELAND & ASSOCIATES, INC.

TONY FREELAND, PE 220 W. CHAMPION ST., SUITE 200 BELLINGHAM, WA 98225 (360) 650-1408

GENERAL NOTES

GENERAL REQUIREMENTS

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION AND THE CITY OF FERNDALE DEVELOPMENT STANDARDS AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWS ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE THE TERMS OF ALL PERMITS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUB-SURFACE CONDITIONS AND SOILS
- 4. THE SURVEYOR SHALL LAY OUT AND SET ANY CONSTRUCTION STAKES AND MARKS NEEDED TO ESTABLISH THE LINES, GRADES, SLOPES OR CROSS-SECTIONS AS SHOWN ON THE PLANS OR AS STAKED BY THE
- 5. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT
- WHEN THE CONTRACTOR CONSIDERS THE WORK PHYSICALLY COMPLETE AND READY FOR FINAL INSPECTION, THE CONTRACTOR SHALL REQUEST THAT CITY INSPECTOR SCHEDULE A FINAL INSPECTION. THE INSPECTOR MILL MAKE A FINAL INSPECTION AND NOTIFY THE CONTRACTOR IN WRITING OF ALL PARTICULARS IN WHICH THE FINAL INSPECTION REVEALS THE WORK INCOMPLETE OR UNACCEPTABLE. THE CONTRACTOR SHALL IMMEDIATELY TAKE SUCH CORRECTIVE MEASURES AS ARE NECESSARY TO REMEDY THE LISTED DEFICIENCIES.
- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CONTRACTOR, OWNER, CITY ENGINEER AND PROJECT ENGINEER. (MINIMUM 3 DAYS PRIOR TO
- 8. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS. SAFETY DEVICES. PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23-PUBLIC CONVENIENCE AND
- 10. PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO THE CITY PRIOR TO THE PRE- CONSTRUCTION
- 11. NO WORK SHALL OCCUR BETWEEN 7:00 PM & 7:00 AM.
- 12. ALL HARD SURFACED PAVEMENTS MUST BE REPAIRED AT THE CLOSE OF EACH WORK DAY. THE REPAIRS CAN BE TEMPORARY WITH ASPHALT COLD MIX OR PERMANENT WITH HOT MIX ASPHALT OR CONCRETE. ALL REPAIRS SHALL BE ACCORDING TO CITY OF FERNDALE DRAWING R-11.
- 13. ALL WORK MUST BE INSPECTED BY A REPRESENTATIVE OF THE CITY OF FERNDALE ENGINEERING DIVISION. AND 24 HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK OR TO SCHEDULE INSPECTIONS IN ACCORDANCE WITH SECTION 302 OF THE DEVELOPMENT STANDARDS.
- 14. THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATION FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDALE PUBLIC WORKS
- 15. AS-BUILT DATA SHALL BE PROVIDED TO THE CITY OF FERNDALE UPON COMPLETION OF CONSTRUCTION AND PROVIDED IN CITY OF FERNDALE DATUM-VERTICAL (NGVD 29) AND HORIZONTAL (NAD 83/91). CONTACT THE CITY FOR MORE INFORMATION ON SUBMITTAL REQUIREMENTS.
- 16. METHOD OF SURVEY, SURVEY DATA, AND SURVEY EQUIPMENT UTILIZED TO CREATE THE BASE MAP/EXISTING CONDITIONS ARE NOTED ON SHEET C2 OF THIS PLAN SET.

GENERAL REQUIREMENTS CONTINUED

- 17. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND repair to these facilities caused by his work force. Call 1—800—424—5555 for utility LOCATE 48 HOURS PRIOR TO WORK, CONTRACT TO HOLD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL ADJACENT UTILITIES WHICH INCLUDE BUT ARE NOT LIMITED TO: WATER, SEWER. STORM SEWER, POWER, TELEPHONE, CABLE TV, IRRIGATION, AND STREET LIGHTING. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISTURBED BY THE PROJECT UPON COMPLETION
- 18. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK IN THE PUBLIC RIGHT-OF-WAY.
- GRAVEL BASES AND BALLAST MAXIMUM PARTICLE SIZE PASSING THE U.S. NO. 200 SIEVE SHALL NOT
- BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF ITS 5.
- THE CONTRACTOR OR PROPONENT SHALL BE RESPONSIBLE FOR ALL COMPACTION TESTING. PRIOR TO IMPORTING OF MATERIAL FOR BASE AND CSTC THE CONTRACTOR SHALL PROVIDE EVIDENCE OF SATISFACTORY PASSING GRADING AND DEGRADATION TEST RESULTS TO THE ENGINEER.

- WHERE SHOWN ON THE PLANS, PAVEMENT MARKINGS SHALL BE OBLITERATED UNTIL BLEMISHES CAUSED BY THE PAVEMENT MARKING REMOVAL CONFORM TO THE COLORATION OF THE ADJACENT PAVEMENT.
- 2. SOIL RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.
- 3. A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
- 4. ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT.
- 5. ASPHALT CONCRETE PAVEMENT SHALL NOT BE PLACED NOR COMPACTED DURING HOURS OF DARKNESS.
- 6. SUBGRADE SHALL BE CERTIFIED IN WRITTING BY THE ENGINEER PRIOR TO PAVING.

- TEST PRESSURE FOR WATERMAIN ACCEPTANCE SHALL BE 225 p.s.i. AT THE HIGHEST POINT ON THE WATER LINE AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. ALL PURIFICATION ACCEPTANCE TESTING SHALL BE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. THE PIPE WILL NOT PASS UNLESS A ZERO BACTERIA COUNT IS OBTAINED FOR TWO CONSECUTIVE TESTS 24 HOURS APART.
- DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE MOST RECENT VERSION OF WSDOT STANDARD SPECIFICATIONS.

ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE

3. ALL BACKFILL SHALL BE IMPORTED GRAVEL AND SHALL CONFORM TO SECTION 2-09 OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.

4. ALL PIPE SHALL HAVE A MINIMUM COVER OF 3.0 FEET.

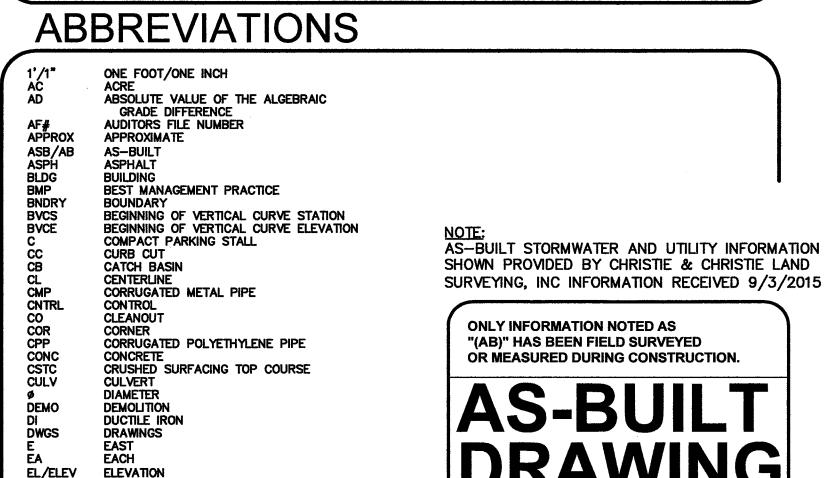
- 1. THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAN UP THOSE AREAS SHOWN ON THE PLANS.
- 2. THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER. IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEERING STUDY.
- MAXIMUM DENSITY AND OPTIMUM MOISTURE FOR GRANULAR MATERIALS WILL BE DETERMINED USING ASTM D-1557 TEST METHOD.

EARTHWORK CONTINUED

- THE UNSUITABLE MATERIAL NOT FIT FOR A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.
- ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7-08. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
- 3. ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
- ALL DRIVEWAY CULVERTS LOCATED WITHIN THE RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS PER WSDOT
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G. POWER, GAS, TELEPHONE, TELEVISION).

SANITARY SEWER SPECIFICAITONS

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE. AND MUNICIPAL CONSTRUCITON, CURRENT EDITION AND THE CITY OF FERNDALE DEVELOPMENT STANDARDS SECTON 5 AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
- FOUR INCH THROUGH TWELVE-INCH PIPE SHALL BE PVC PIPE CONFORMING TO ASTM D-3034, SDR-35 OR EQUAL. PIPE JOINTS SHALL BE MADE WITH FLEXIBLE GASKETS CONFORMING TO THE REQUIREMENTS OF SECTION 7-17.3G (2)E OF THE STANDARD SPECIFICATIONS.
- 3. TRENCH EXCAVATION SHALL BE ACCORDING TO SECTION 7-08.3(1) OF THE STANDARD SPECIFICATIONS. 4. THE BEDDING SHALL BE PEA GRAVEL PER SS-1.
- 5. PIPE LAYING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(2)B OF THE STANDARD
- 6. ALL SIDE SEWERS SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF FERNDALE STANDARD PLAN SS-6 THROUGH SS-8. CONNECT SIDE SEWERS PER COF DWG SS-12.
- 7. ALL TRENCH BACKFILL UNDER EXISTING OR FUTURE PAVING SHALL BE BANK RUN GRAVEL, CLASS "B" AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- ALL SEWER PIPE WILL BE PRESSURE TESTED AND WILL SCANNED BY MEANS OF A TV CAMERA PRIOR TO ACCEPTANCE BY THE CITY OF FERNDALE.
- ALL MANHOLES WILL BE ACCORDING TO THE CITY OF FERNDALE STANDARD PLAN NO. SS-2. THROUGH SS-4 AND WSDOT MH TYPE 1 STANDARD PLAN B-15.20.01.
- 10. ALL CLEANOUTS SHALL BE ACCORDING TO CITY OF FERNDALE STANDARD PLAN NO. SS-5.
- ALL HARD SURFACED PAVEMENTS MUST BE REPAIRED AT THE CLOSE OF EACH WORK DAY. THE REPAIRS CAN BE TEMPORARY WITH ASPHALT COLD MIX OR PERMANENT WITH HOT MIX ASPHALT OR CONCRETE.
- 12. ALL WORK MUST BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE CITY OF FERNDALE PUBLIC WORKS, AND 24 HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK OR TO SCHEDULE INSPECTIONS. 13. ALL TESTING SHALL BE DONE IN THE PRESENCE AND UNDER THE SUPERVISION OF A REPRESENTATIVE OF THE CITY OF FERNDALE.



APPROVED)

SEP 0 8/2015

CITY OF FERNDALE

REVOCABLE ENCROACHMENT PERMIT

END OF VERTICAL CURVE STATION

FIRE DEPARTMENT CONNECTION

FINISH FLOOR ELEVATION

END OF VERTICAL CURVE ELEVATION

EDGE OF PAVEMENT

EASEMENT

EXISTING

GROUND

INVERT

FINISH GRADE

FIRE HYDRANT

HIGH POINT

LINEAR FOOT

MAXIMUM

MONUMEN'

NUMBER

PARCEL

ON CENTER

LAND SURVEYOR

NOT IN CONTRACT

POINT OF CURVATURE

POINT OF INTERSECTION

POST INDICATOR VALVE

POINT OF BEGINNING

POWER POLE

INVERT ELEVATION

EVCS

GND GUTT

MAX

MON

PROP

EX/EXIST

OR MEASURED DURING CONSTRUCTION.

ENGINEER'S CERTIFICATION:

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN GRUBB - 6061 PORTAL WAY HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND CONSTRUCTED IN CONFORMANCE WITH THE PLANS APPROVED BY PUBLIC WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS ADOPTED BY THE CITY OF FERNDALE DEPARTMENT OF PUBLIC WORKS."

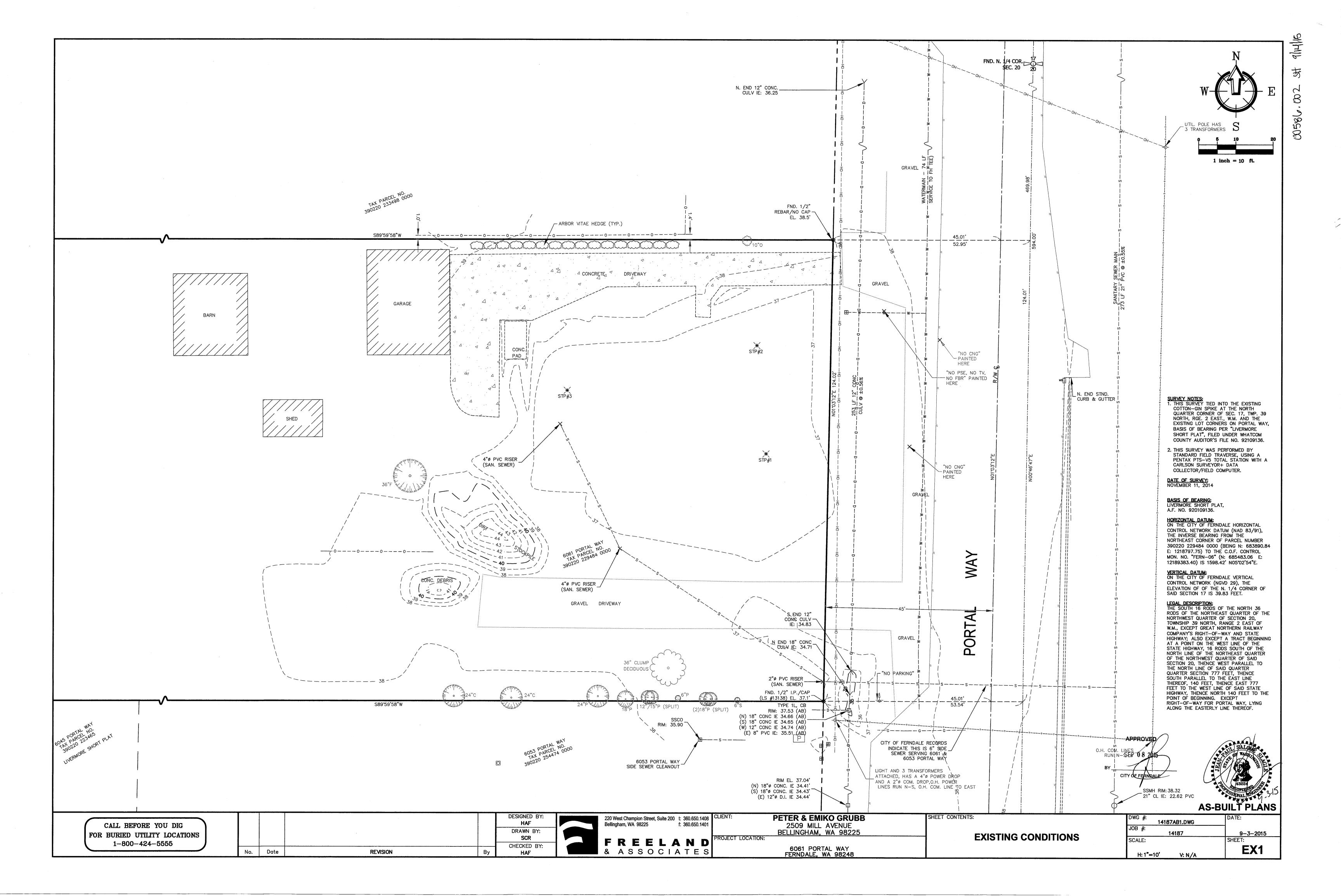
CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS 1-800-424-5555

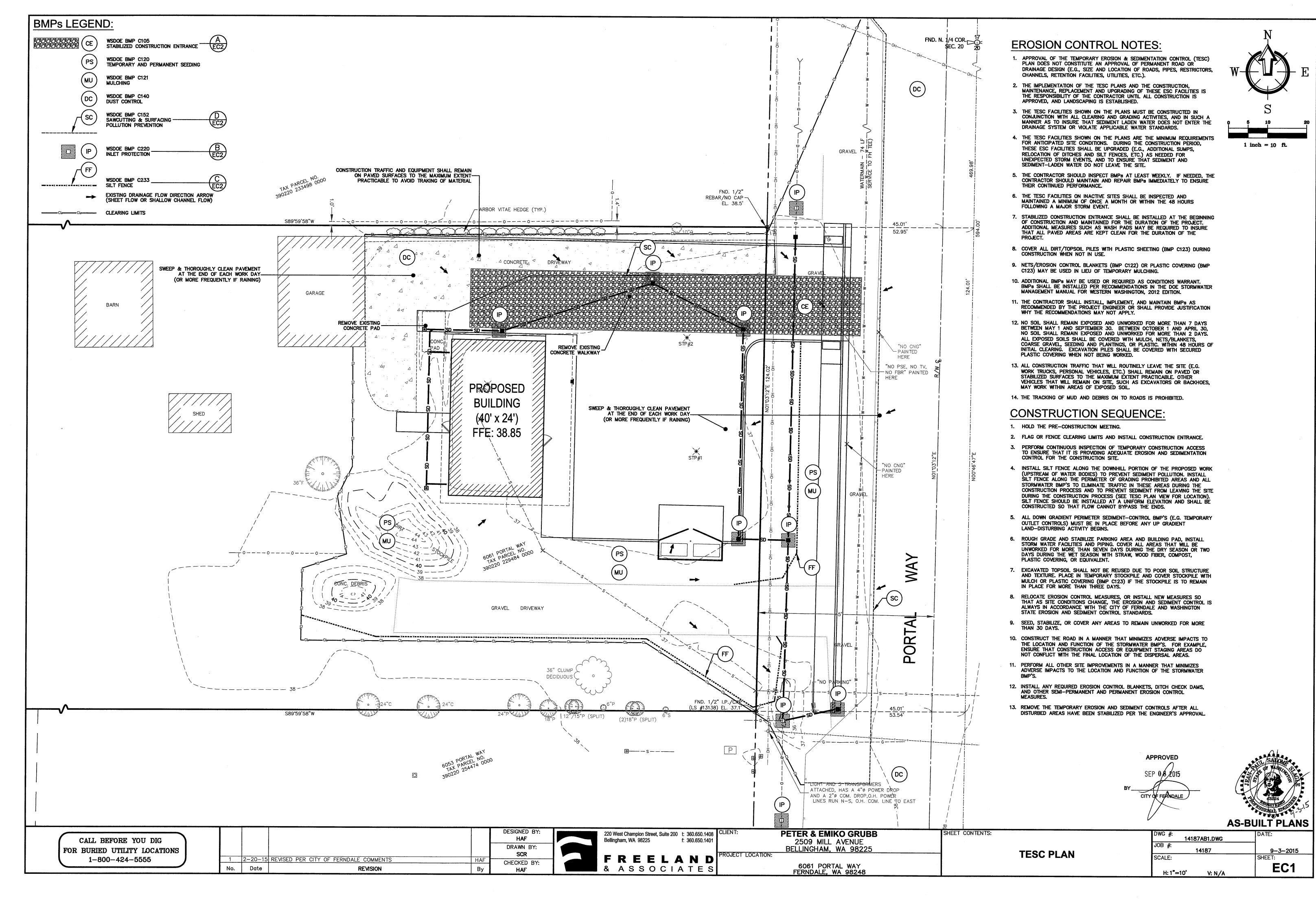


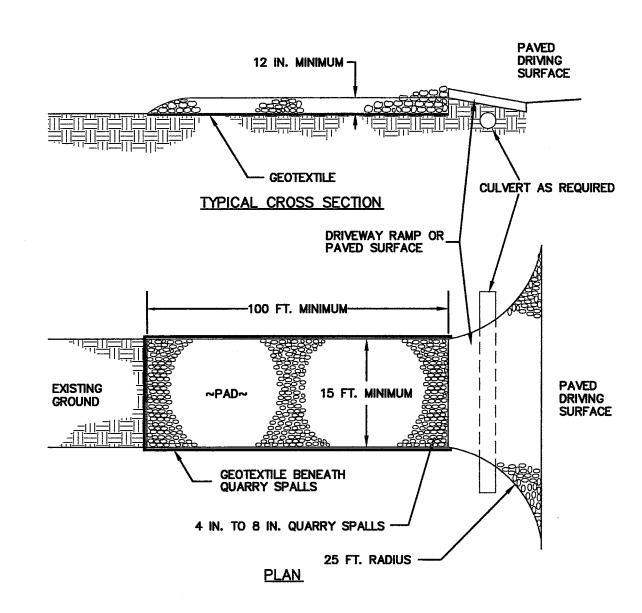


AS-BUILT PLANS f: 360.650.1401

CS1

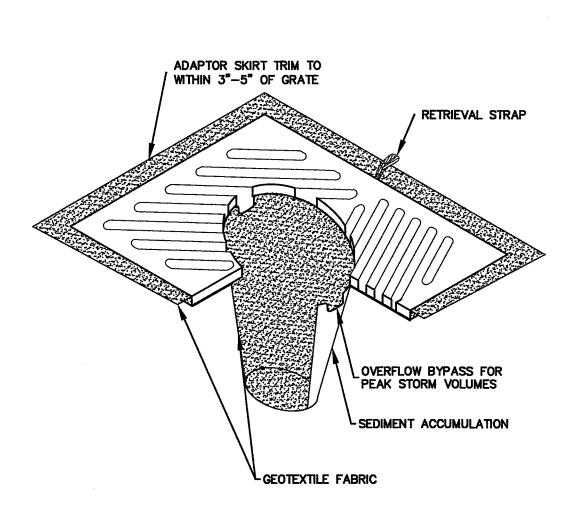






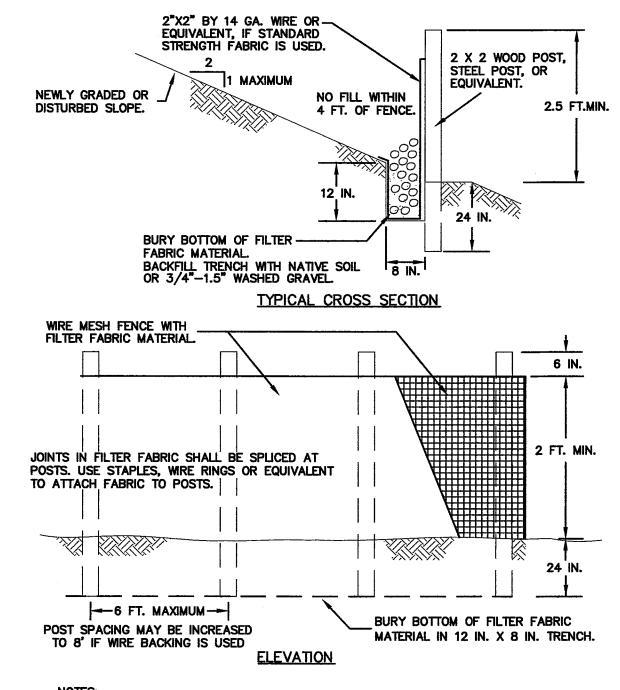
- 1. PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY WHATCOM COUNTY.
- 2. PAD SHALL BE INSTALLED IN PLANTING STRIP AS APPROPRIATE.
- 3. PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF ENGINEER OF RECORD OR THE CERTIFIED EROSION & SEDIMENTATION
- 4. MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF CITY OF FERNDALE.





- 1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
- 2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL
- 3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.





- 1. FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2 : 1.
- 2. JOINTS IN FILTER FABRIC SHALL BE OVERLAPPED 6 INCHES AT POST.
- 3. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO WIRE FENCE.

STORMWATER POLLUTION PREVENTION PLAN

4. REMOVE SEDIMENT WHEN IT REACHES 1/3 FENCE HEIGHT.

BMP C152: Sawcutting and Surfacing Pollution Prevention

Sawcutting and surfacing operations generate slurry and process water hat 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

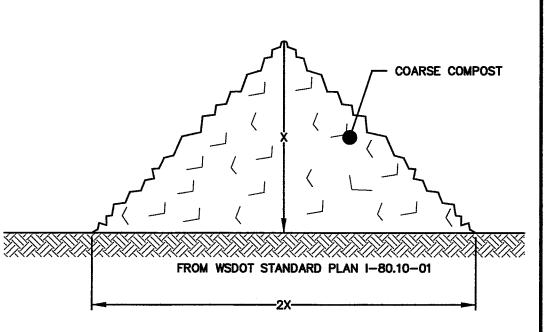
- Vacuum slurry and cuttings during cutting and surfacing operations Slurry and cuttings shall not remain on permanent concrete or asphalt
- Slurry and cuttings shall not drain to any natural or constructed drainage conveyance including stormwater systems. This may require temporarily blocking catch 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

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 mmediately implement preventive measures such as berms, barriers, secondary containment, and vacuum trucks.

Volume II - Construction Stormwater Pollution Prevention - August 2012





X = 1.0' FOR SLOPES 4H: 1V OR FLATTER X = 1.6' FOR SLOPES STEVER THAN 4H:1V

COARSE COMPOST CONSISTS OF ORGANIC MATTER (PEAT FREE). PARTICLE SIZE SHALL BE GRADED FROM 1" TO 4" (SHREDDED HOG-FUEL OR SIMILAR). SHREDDED VEGETATION SUCH AS REMOVED BLUEBERRY VEGETATION WILL SUFFICE FOR THIS PROJECT.

Element #1: Mark Clearing Limits

Clearing limits and nearby sensitive areas and their buffers, will be clearly marked prior to beginning land disturbing activities, which includes clearing and grading. These areas will be clearly marked; both in the field and on site plans, to prevent damage and offsite impacts

Washington State Department of Ecology BMP's considered for Element #1 include:

BMP C101: Preserving Natural Vegetation

BMP C103: High Visibility Plastic or Metal Fence BMP C104: Stake and Wire Fence

Element #2: Establish Construction Access

A single entrance point will be installed for construction access to the proposed onsite improvements. Earthwork equipment will remain within the disturbed area to the maximum extent practicable. Construction traffic that will routinely leave the site (e.g. work trucks, personal vehicles) shall remain on paved surfaces to the maximum extent practicable. Paved roads & parking areas shall be cleaned at the end of each day. Sediment transported to roads from the site shall be swept and disposed of at a controlled sediment disposal area on site or removed off site and disposed at an approved fill site. If street washing is needed. it will only occur after sediment has been removed as described. The resulting wash wastewater would then be controlled by pumping it back on site. All construction access points will be restored to pre-construction or proposed conditions.

Washington State Department of Ecology BMPs considered for Element #2 include:

BMP C105: Stabilized Construction Entrance

Housekeeping/Maintenance BMP: Daily Street Sweeping Housekeeping/Maintenance BMP: BMP C140 Dust Control

Element #3: Control Flow Rates

Flow rates shall be controlled to the maximum extent practical. Contractor shall preserve vegetated areas on the site as allowable throughout the construction process. Temporary sediment traps or ponds may be designed, located, and installed if the project engineer or CESCL deems necessary. No permanent flow control facilities are required as part of this project.

Washington State Department of Ecology BMPs considered for Element #3 include: BMP C241: Temporary Sediment Pond

Element #4: Install Sediment Controls

BMP C208: Triangular Silt Dike

The storage and reapplication of existing duff layer or native topsoil is not recommended nor anticipated due to lack of quality and quantity and extent of vegetation preservation is minimal due to large areas of lawn. The existing vegetation (conifer trees) will be retained to the greatest extent practicable. Element #1 of this plan, including implementing Preserving Natural Vegetation, will be practiced. Silt fencing will be installed downhill from disturbed areas to trap and retain sediment on site. Other sediment controls, such as temporary sediment traps, sumps, gravel filer berms, straw wattles, etc. may be installed if warranted as conditions change on site during construction.

Washington State Department of Ecology BMPs considered for Element #4 include: BMP C233: Silt Fence

Element #5: Stabilize Soils

If construction occurs in the dry season, (5/1 through 9/30) soils will not remain exposed and unworked for more than 7 days. If construction occurs in the wet season (10/1 through 4/30) soils will not remain exposed and unworked for more than 2 days. When active grading is in progress, the deadline for soil stabilization may be extended upon determining that the likelihood of erosion impacts is low based on the type and amount of soil exposed, site topography, potential for discharge to critical areas and lakes, and other factors. In addition, weather conditions will continually be monitored, including before holidays and weekends, for purposes of preparing the site for predicted weather conditions. BMPs that are effective in stabilizing soils and protecting them from exposure to rain and wind or other climatic conditions will be implemented throughout the project. Evaluation and monitoring of BMP effectiveness will occur on a daily basis. In addition, in the event of forecasted precipitation events, additional measures to stabilize soils will

BMPs that will be considered throughout construction include but are not limited to temporary and permanent seeding, sodding, mulching, plastic covering, erosion control fabrics and matting, the early application of gravel base on areas to be paved, and dust control.

Washington State Department of Ecology BMPs considered for Element #5 include:

BMP C120: Temporary and Permanent Seeding

BMP C121: Mulching

BMP C122: Nets and Blankets

BMP C123: Plastic Covering BMP C125: Topsoiling

BMP C140: Dust Control Element #6: Protect Slopes

Significant cut or fill slopes are not proposed as part of this project.

Element #7: Protect Drain Inlets

Storm drain inlets are proposed as part of this project. Operable storm drain inlets on the site and within 500 feet downstream of the construction area roads will be protected so that stormwater runoff does not enter the conveyance system without filtration or other treatment for sediment. Storm Drain Inlet Protection will be used to determine the most appropriate inlet protection design for the site and the downstream area.

Inlets will be inspected weekly at a minimum and daily during storm events. Inlet protection devices shall be cleaned or removed and replaced before six inches of sediment can accumulate. Construction access points and approaches will be monitored and swept to minimize the potential of sediment transport. If street washing occurs, the wash wastewater will be pumped back on site.

Washington State Department of Ecology BMPs considered for Element #7 include: BMP C220: Storm Drain Inlet Protection

Element #8: Stabilize Channels and Outlets

Permanent/temporary drainage swale/channel is not proposed as a part of this project. If a temporary on-site conveyance channel be necessary, it will be designed, constructed, and stabilized to prevent erosion from the expected flow velocity of a 2-year, 24-hour frequency storm.

Outlets of all conveyance systems will be protected and stabilized to prevent erosion of outlets and swales. Outlet Protection will be considered for purposes of designing and implementing the most effective outlet protection approach.

Washington State Department of Ecology BMPs considered for Element #8 include: BMP C202: Channel Lining

Waste materials generated on site will be handled and disposed of in a manner that does not cause contamination of stormwater; including covering soil stockpiles. Routine inspections of the waste material storage areas will be conducted to make sure that leaks or spills do not occur. Any leakage or spills will be cleaned up immediately.

Maintenance of heavy equipment involving oil changes, hydraulic system drain down, solvent and de-greasing cleaning and/or other activities that may result in discharge or spillage of pollutants to the ground or into stormwater runoff will be conducted with spill prevention measures in place, including conducting maintenance on a temporary pad that can be used to capture large spills and the use of drip pans. In the event that emergency repairs need to be performed and climatic conditions may result in a precipitation event prior to the repair being completed, the repair area, which includes the vehicle, will be covered with tarps or other plastic sheeting. Discharges, spills, or leaks will be cleaned immediately. The notification procedure outlined in the permanent site SWPPP is as follows:

All spills will be reported to the Department of Ecology, Spill Response Program (425) 649-7000.

BMPs considered for Element #9 include: Spill Cleanup and Response Practices

Element #10: Control De-Watering

De-watering may be necessary during construction of this project. If necessary, clean, non-turbid de-watering water, such as well-point ground water, can be discharged to systems tributary to State surface waters, provided the de-watering flow does not cause erosion or flooding of receiving waters. These clean waters should not be routed through a stormwater sediment pond.

Highly turbid or contaminated dewatering water from construction equipment operation, concrete tremie pour, or work inside a cofferdam shall be handled separately from stormwater.

Other disposal options, depending on site constraints, may include: Infiltration

• Transport off site in vehicle, such as a vacuum flush truck, for legal disposal in a manner that does

• Use of a sedimentation bag with outfall to a ditch or swale for small volumes of localized dewatering

- not pollute state waters,
- On-site treatment using chemical treatment or other suitable treatment technologies,
- Sanitary sewer discharge with local sewer district approval, or
- Element #11: Maintain BMPs

All temporary and permanent erosion and sediment control BMPs will be inspected by the CESCL, and shall be maintained, and repaired by the contractor to assure continued performance of their intended function. Maintenance and repair shall be conducted in accordance with the relevant BMP identified in Elements #1 through #10. Temporary erosion and sediment controls identified above will be inspected daily during the wet season. Needed repairs and maintenance will occur as soon as practicable or, in the event of a forecast of inclement weather, repairs and maintenance will occur immediately.

Temporary erosion and sediment control BMPs will be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment will be removed or stabilized on site. Disturbed soil resulting from removal of BMPs or vegetation shall be permanently stabilized.

Element #12: Manage the Project

Exposed areas during the clearing and grading process will be mulched as part of the clearing and grading activities. Clearing and grading activities will occur after the applicable permits have been obtained. Revegetation of exposed areas and maintenance of that vegetation will occur as part of the planting phase of the project to be installed after sub-grade road base material has been installed and prior to final gravel surfacing.

From May 1 through September 30, soil will not be exposed/unworked for 7 days. From October 1 through April 30, soil will not remain exposed and unworked for more than 2 days. In addition, weather conditions will continually be monitored including before holidays and weekends for purposes of preparing the site for predicted weather conditions. BMPs that are effective in stabilizing soils and protecting them from exposure to rain and wind or other climatic conditions will be implemented throughout the project. Inspection and evaluation of the effectiveness of the BMPs will occur on a daily basis. In addition, in the event of forecasted precipitation events, additional measures to stabilize soils will be taken.

Coordination with Utilities and Other Contractors

The stormwater management requirements for all aspects of the construction project, including utilities, were considered in preparing the Construction SWPPP.

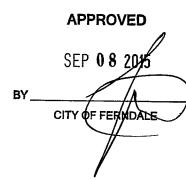
Inspection and Monitoring

As previously mentioned, all BMPs will be inspected, maintained, and repaired as needed to assure continued performance of their intended function. In the event that inspection and/or monitoring reveals that the BMPs identified in this Construction SWPPP are inadequate, due to the actual discharge of or potential to discharge a significant amount of any pollutant, this SWPPP shall be modified, as appropriate, in a timely manner.

Maintenance of the Construction SWPPP

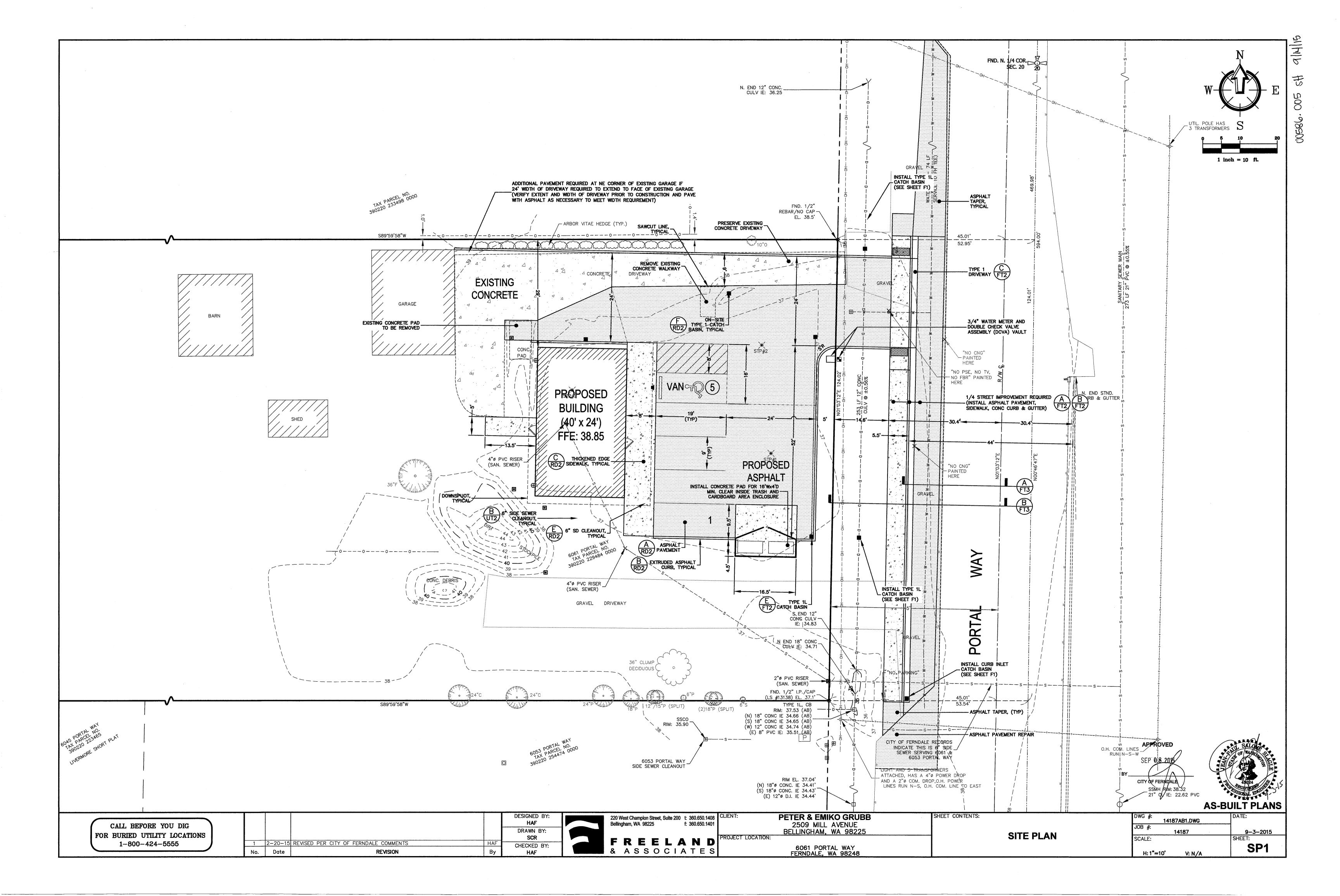
The Construction SWPPP will be retained on-site and will be updated on a regular basis. Modifications to the Construction SWPPP will be made whenever there is a significant change in the design, construction, operation, or maintenance of any BMP.

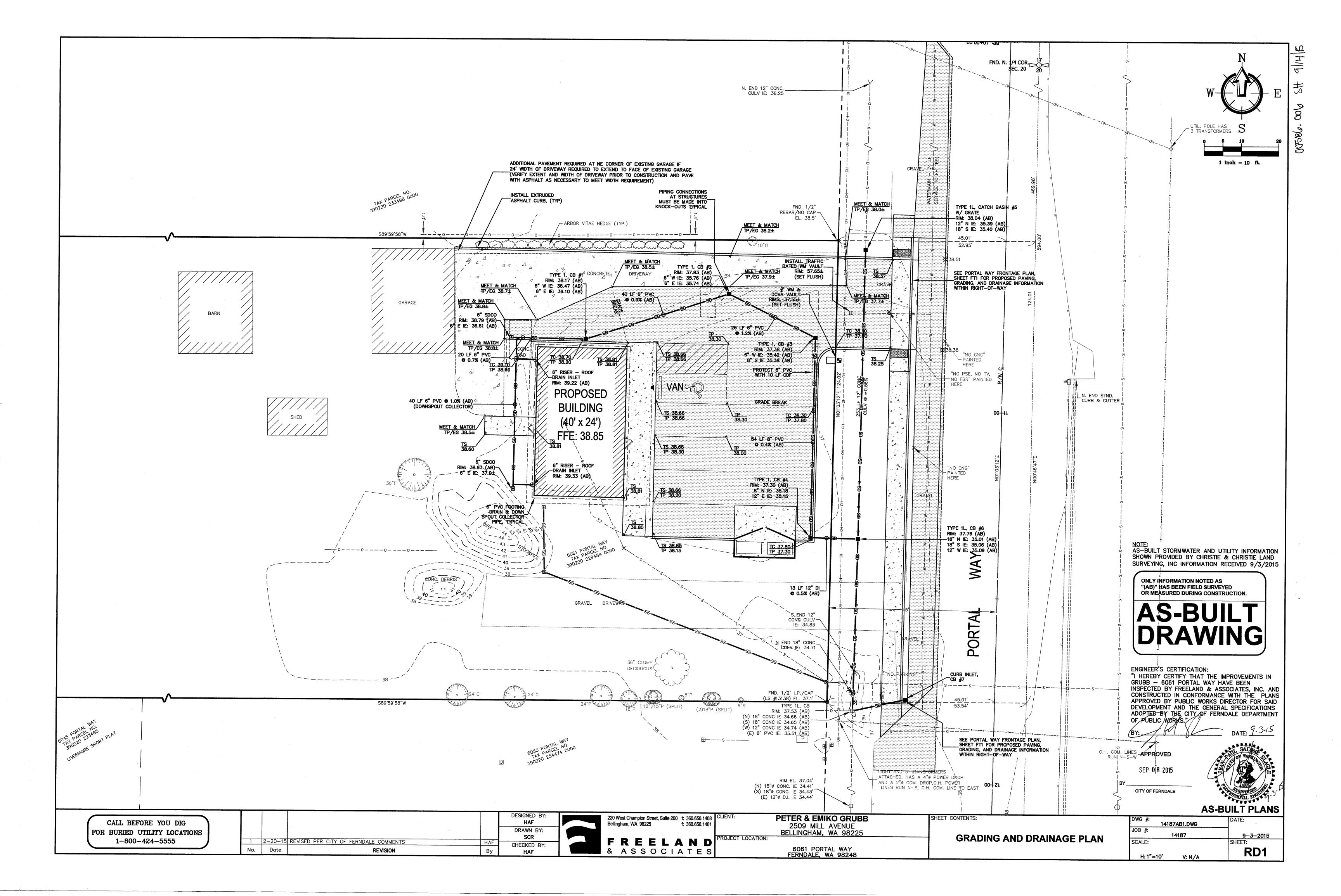
Operators are required to seek coverage under a Construction Stormwater General Permit (CSWGP) for clearing, grading and/or excavation that results in the disturbance of one or more acres and discharges stormwater to surface waters of the State; Or for clearing, grading and/or excavation on site smaller than one acre that are part of a larger common plan of development or sale, if the common plan or sale will ultimately disturb one acre or more discharge stormwater to the surface water of the



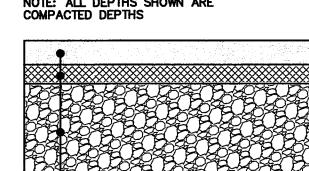


	BMP C209:	: Outlet Protection			/ AS-B	BUILT PLANS
CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS		DESIGNED BY: HAF DRAWN BY:	220 West Champion Street, Suite 200 t: 360.650.1408 Bellingham, WA 98225 f: 360.650.1401 CLIENT: PETER & EMIKO GRUBB 2509 MILL AVENUE BELLINGHAM, WA 98225	SHEET CONTENTS:	DWG #: 14187AB1.DWG JOB #: 14187	DATE: ————————————————————————————————————
1-800-424-5555	1 2-20-15 REVISED PER CITY OF FERNDALE COMMENTS No. Date REVISION	HAF CHECKED BY: By HAF	FREELAND PROJECT LOCATION: 6061 PORTAL WAY FERNDALE WA 98248	TESC DETAILS AND SWPPP	SCALE: H: N/A V: N/A	SHEET: EC2





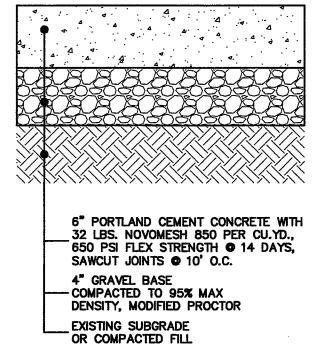




--- 3" HOT MIX ASPHALT 2" CRUSHED SURFACING TOP COURSE --- 12" GRAVEL BASE ----EXISTING GROUND OR

ASPHALT PAVEMENT SECTION

COMPACTED FILL



CONCRETE PAVEMENT SECTION

SUBGRADE AND GRAVEL BASE NOTES:

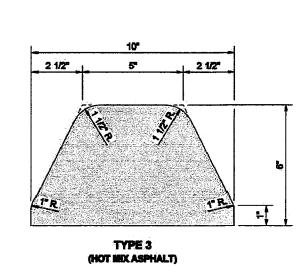
(1) STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LIFTS APPROXIMATELY 8 TO 10 INCHES IN LOOSE THICKNESS AND THOROUGHLY COMPACTED. THE FILL SHALL BE COMPACTED TO A MINIMUM OF 92 PERCENT, EXCEPT THE UPPER 24 INCHES OF SUBGRADE, WHICH SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.

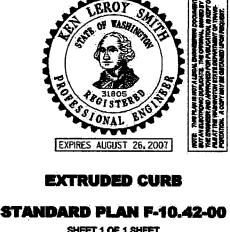
(2) STRUCTURAL FILL SHALL CONSIST OF CLEAN, WELL-GRADED SANDY GRAVEL, GRAVELLY SAND, OR OTHER APPROVED NATURALLY OCCURRING GRANULAR MATERIAL (PIT RUN) WITH AT LEAST 40 PERCENT RETAINED ON THE NO. 4 SIEVE, OR A WELL-GRADED

(3) DRY WEATHER STRUCTURAL FILL MAY CONTAIN UP TO 10% FINES PASSING THE U.S. NO. 200 SIEVE. WET WEATHER STRUCTURAL FILL MAY NOT CONTAIN MORE THAN 5 PERCENT FINES PASSING THE U.S. NO. 200 SIEVE. THE CONTRACTOR SHALL MONITOR THE WEATHER AND DETERMINE THE APPROPRIATE FILL TO UTILIZE ON SITE TO ENSURE THAT THE ABOVE COMPACTION REQUIREMENTS ARE MET.

(4) IF APPROVED BY A GEOTECHNICAL ENGINEER, STRUCTURAL FILL NOT MEETING THE ABOVE REQUIREMENTS CAN BE USED FOR FILL BELOW 24" OF FINAL GRADE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING. GEOTECHNICAL RECOMENDATIONS/APPROVAL SHALL ACCOMPANY THE NOTIFICATION.

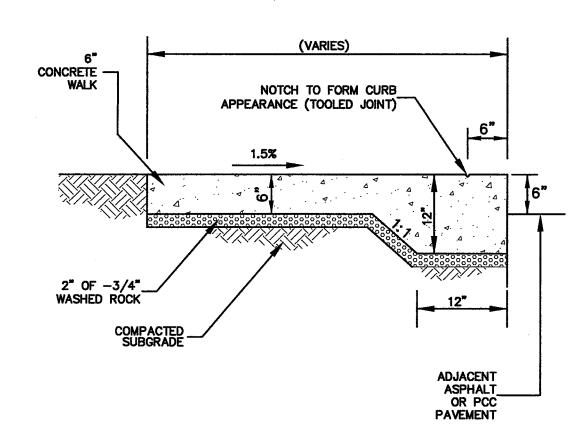
A ON-SITE PAVEMENT SECTIONS





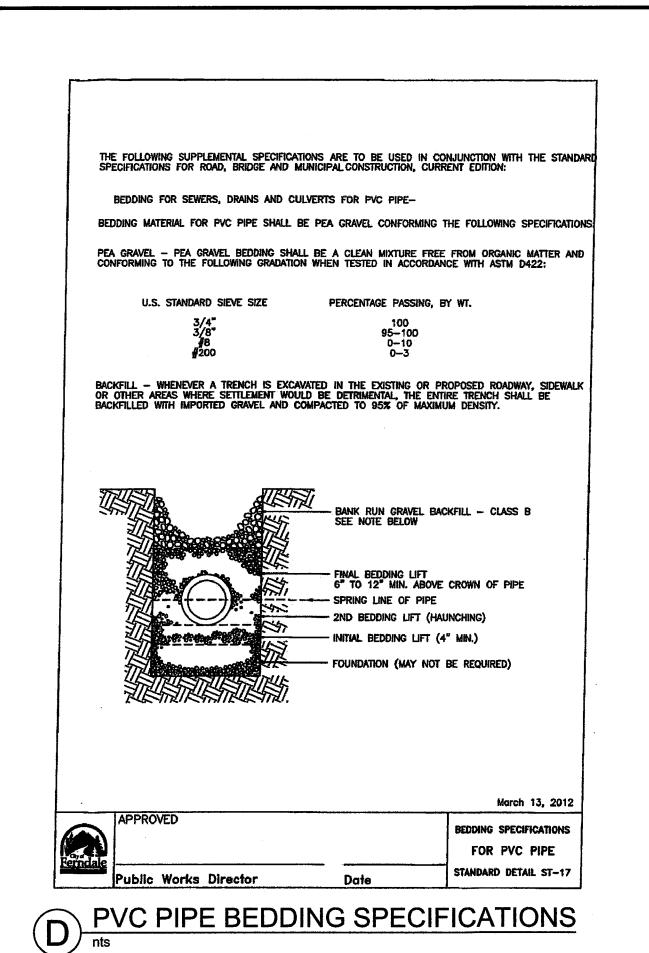
SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION

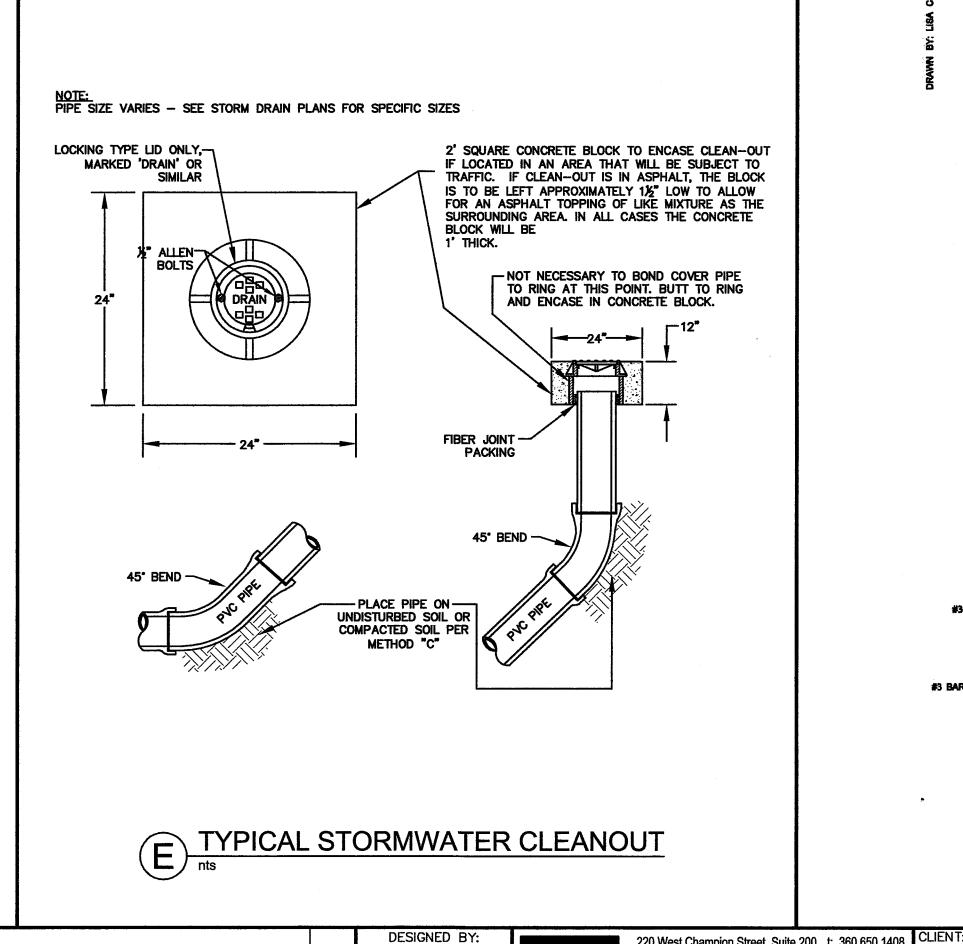
- 1. EDGE DOES NOT NEED TO BE THICKEND IN AREAS WHERE ADJACENT TO PLANTING/LANDSCAPE AREAS OR BUILDING FOUNDATION.
- 2. TOOLED JOINTS SPACED TO MATCH SIDEWALK WIDTH EXPANSION JOINTS SPACED 100' MAX. & WHERE WALK JOINS DRIVEWAY OR CURB.



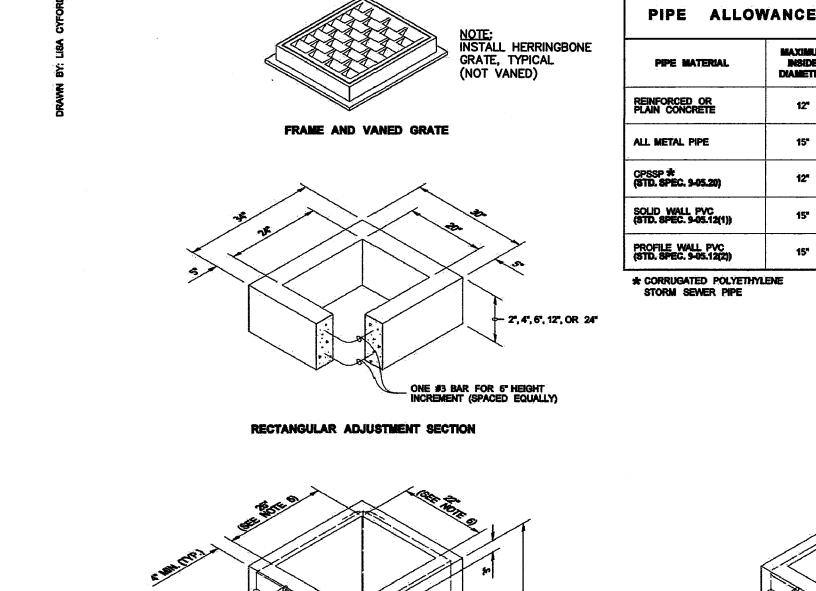
THICKENED EDGE SIDEWALK

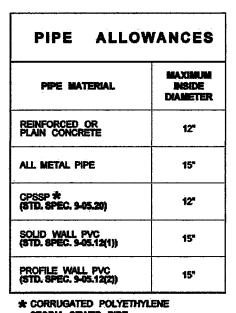
B ASPHALT EXTRUDED CURB





SCR





The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.

5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.

1. As acceptable alternatives to the rebar shown in the PRECAST BASE

SECTION, fibers (placed according to the Standard Specifications), or

wire mesh having a minimum area of 0.12 square inches per foot shall

PRECAST BASE SECTION. Wire mesh shall not be placed in the

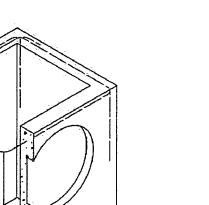
2. The knockout diameter shall not be greater than 20°. Knockouts shall

3. The maximum depth from the finished grade to the lowest pipe invert

have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.

6. The opening shall be measured at the top of the Precast Base Section.

7. All pickup holes shall be grouted full after the basin has been placed.



CATCH BASIN TYPE 1

#3 BAR HOOP

SHEET CONTENTS:

	FEEER
CATCH BASII	N TYPE 1
STANDARD PLA	· 1
SHEET 1 OF 1: APPROVED FOR	
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BY	ASSESSIONAL ENGINEERS
CITY OF FERNIDALE	SSIONAL ENGLY
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<u>'</u>	AS-BUILT PLANS

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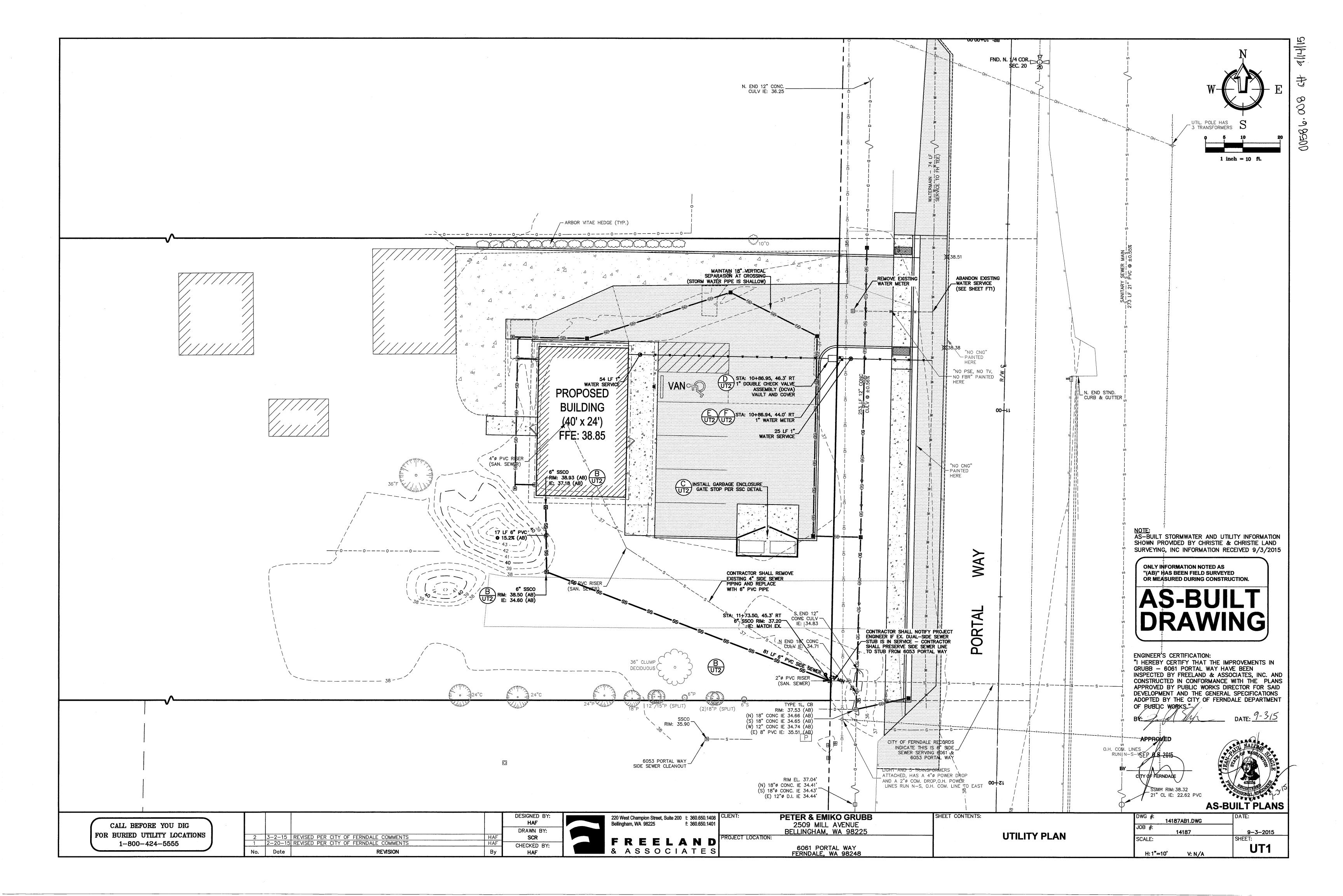
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PETER & EMIKO GRUBB 2509 MILL AVENUE BELLINGHAM, WA 98225 PROJECT LOCATION: 6061 PORTAL WAY FERNDALE, WA 98248

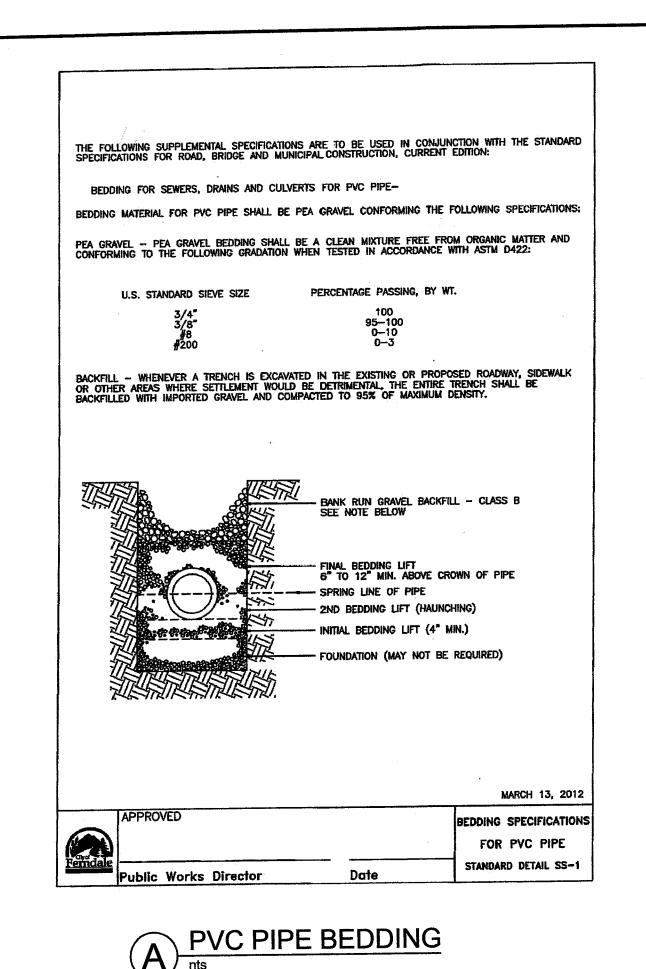
PAVING AND DRAINAGE DETAILS

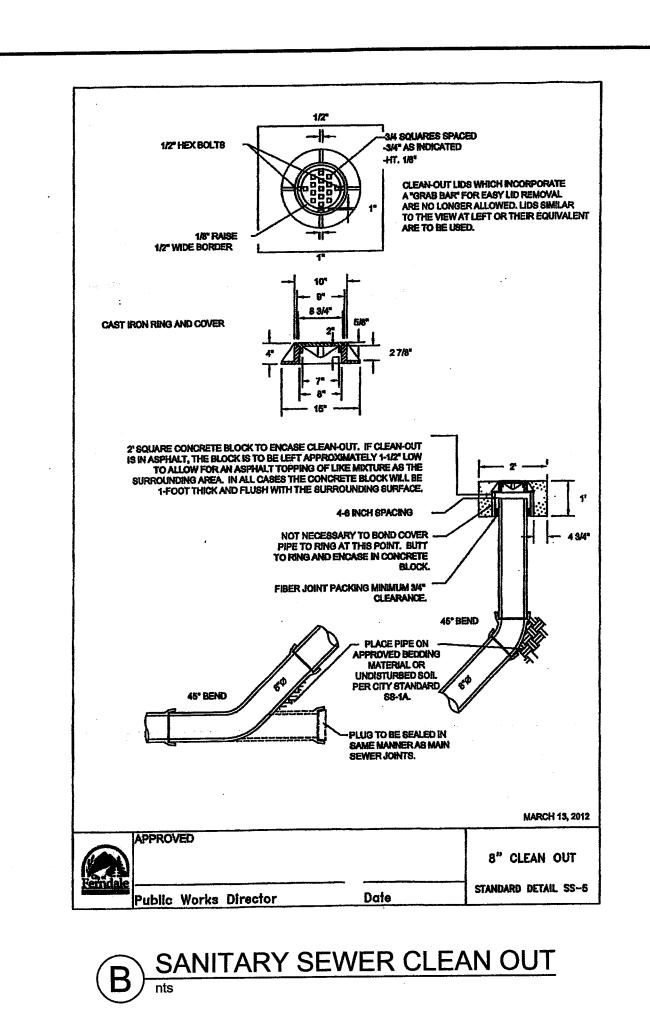
ALTERNATIVE PRECAST BASE SECTION

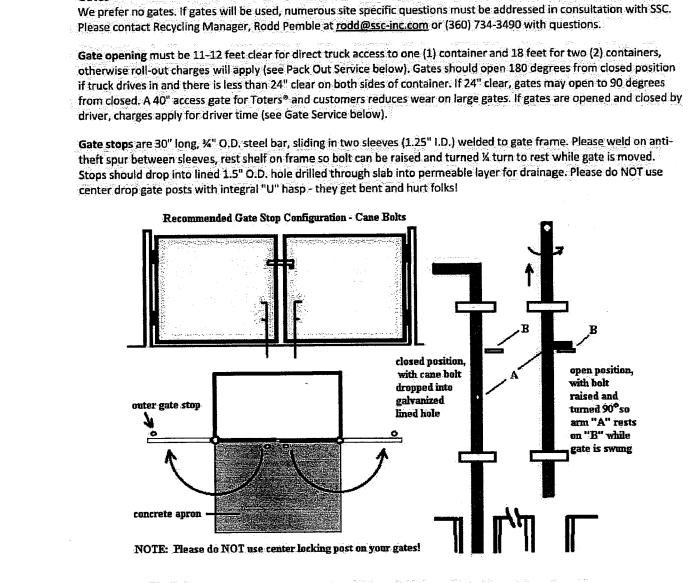
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JOB #:	14187	9-3-2015
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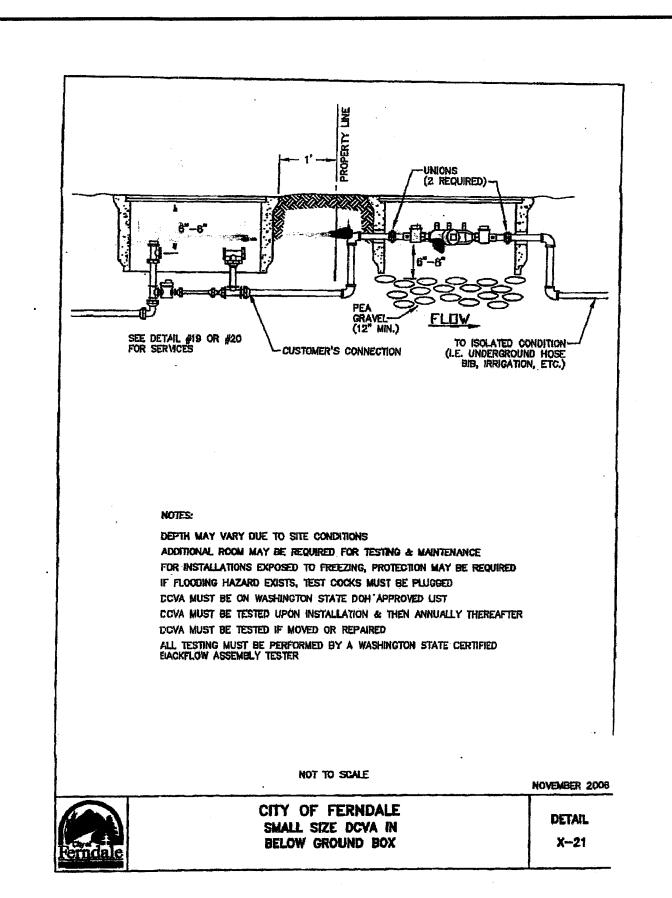


Gate Service (Option) — Available for a small charge. If locked, customer must unlock or supply a standard SSC dumpster lock. Purchase lock from Accurate Lock & Security, Inc. or Security Solutions (formerly Bellingham Lock & Safe).

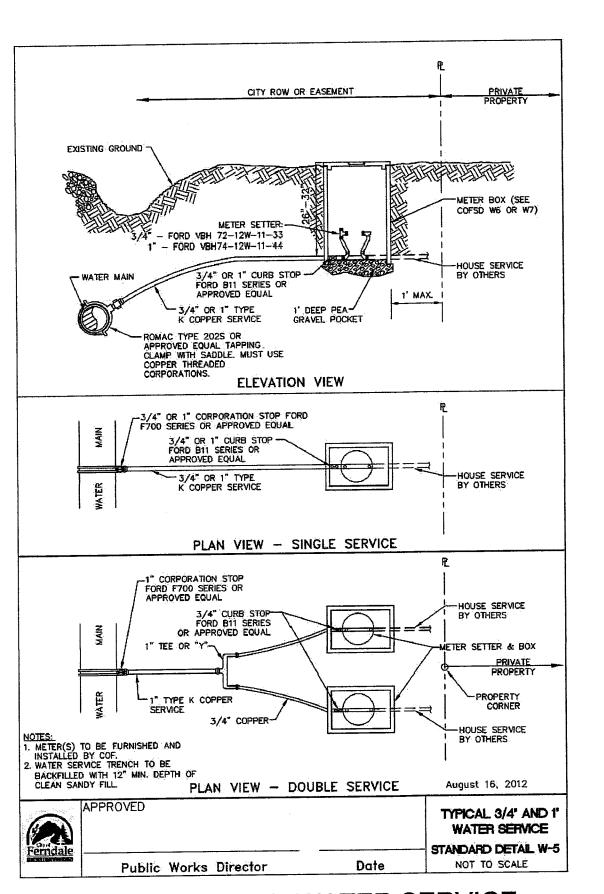
Pack Out Service (Option)—Available for customers whose containers must be moved more than 5 feet to reach collection truck. SSC driver takes container to truck, empties it and returns it to designated storage location. Small charge per pick-up on containers 4-yd and smaller (note: there are no wheels on 6-yd and up). Due to weight, most restaurants cannot have Pack Out Service over 2-yd. Contact us for rates or more info.

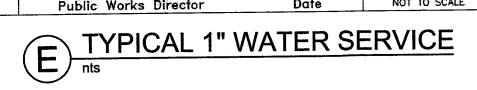
> 360.734.3490 24 Hour Dispatch 360.734.2051

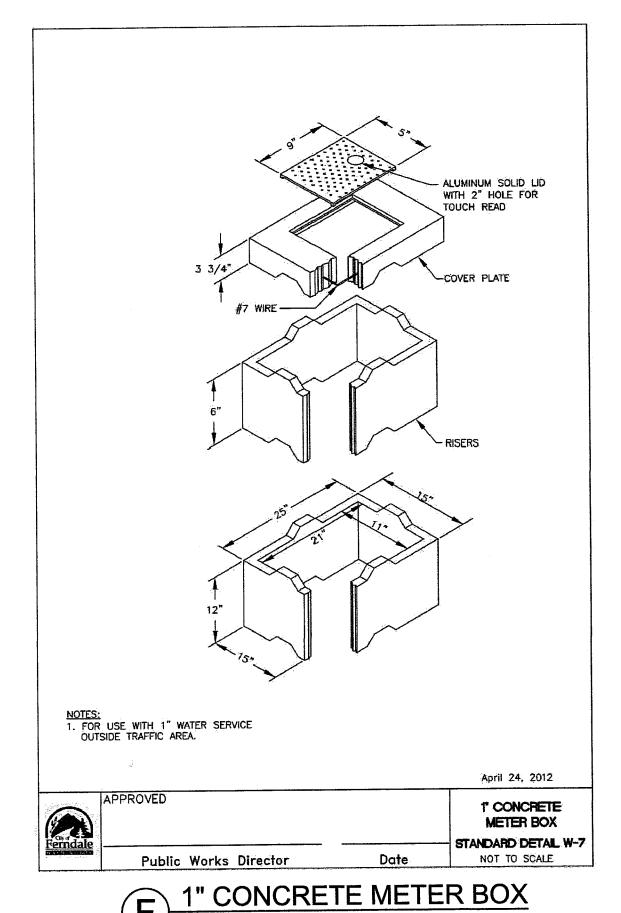
C GARBAGE ENCLOSURE GATE STOP

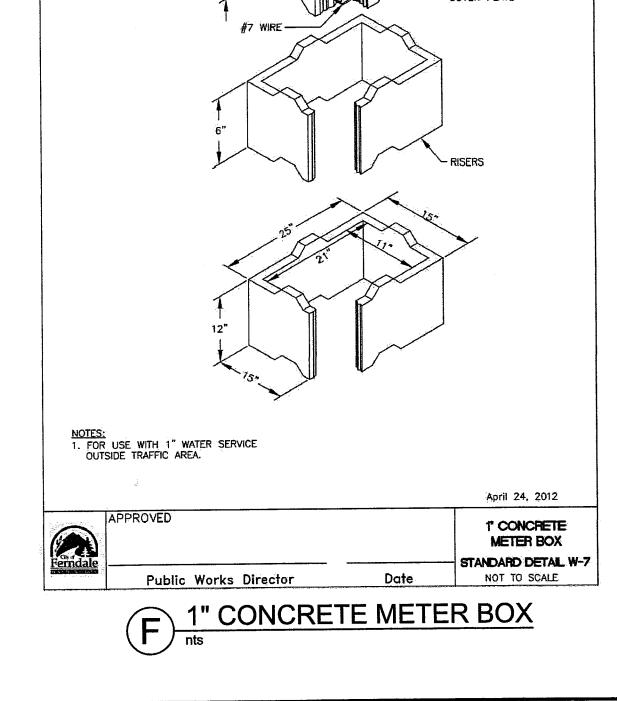


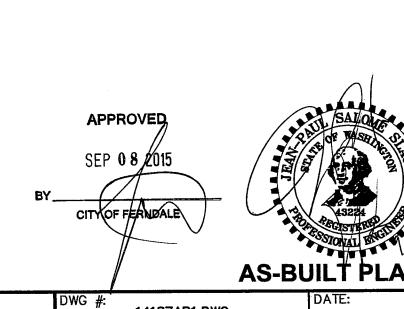
D SMALL SIZE DCVA IN BELOW GROUND BOX nts











CALL BEFORE YOU DIG			
FOR BURIED UTILITY LOCATIONS	2	3-2-15	R
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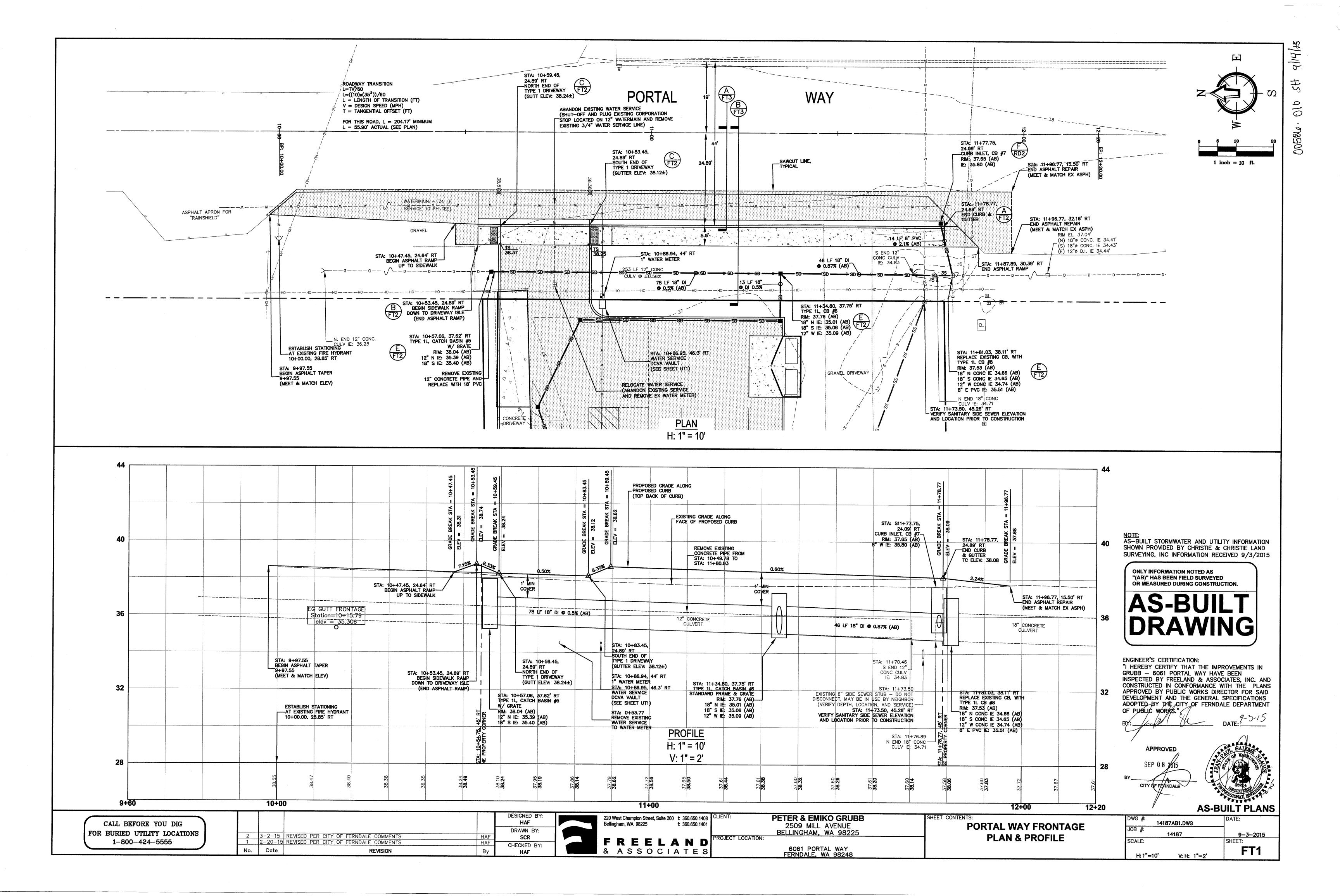
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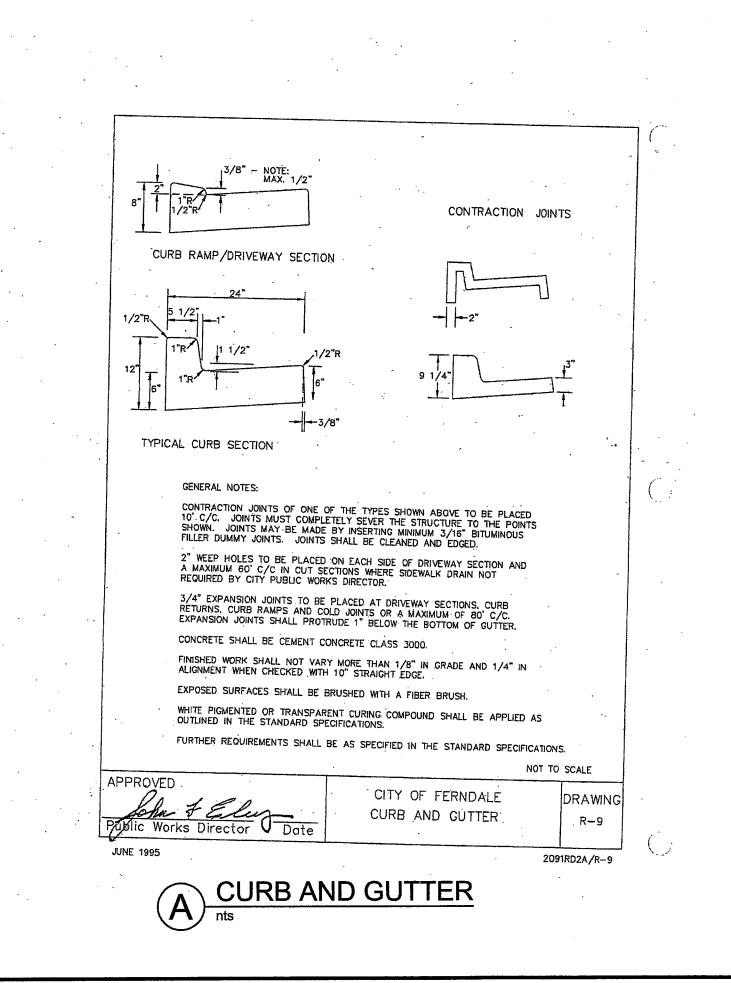
PETER & EMIKO GRUBB 2509 MILL AVENUE BELLINGHAM, WA 98225

6061 PORTAL WAY FERNDALE, WA 98248

WATER, SANITARY SEWER AND AND MISCELLANEOUS DETAILS

	AS-BUILT PLANS			
 DWG #: 14187AB1.DWG	DATE:			
JOB #: 14187	9-3-2015			
SCALE:	SHEET:			
H: N/A V: N/A	UT2			

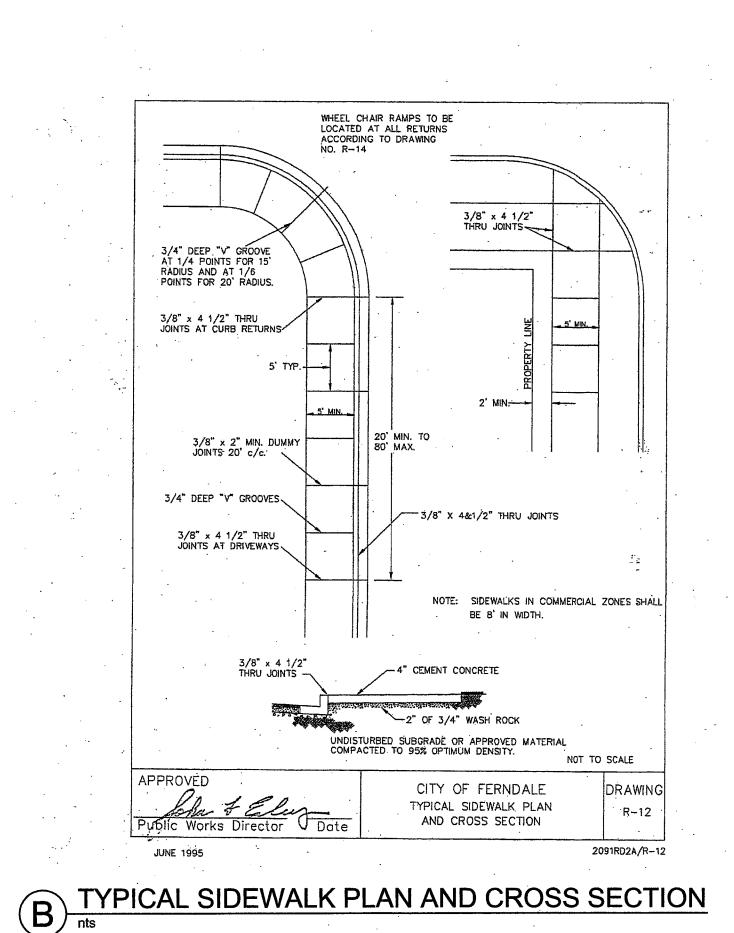




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FOR BURIED UTILITY LOCATIONS

1-800-424-5555



DESIGNED BY:

HAF

DRAWN BY:

SCR

CHECKED BY

HAF

220 West Champion Street, Suite 200 t: 360.650.1408 CLIENT:

REELAND

& ASSOCIATES

f; 360.650.1401

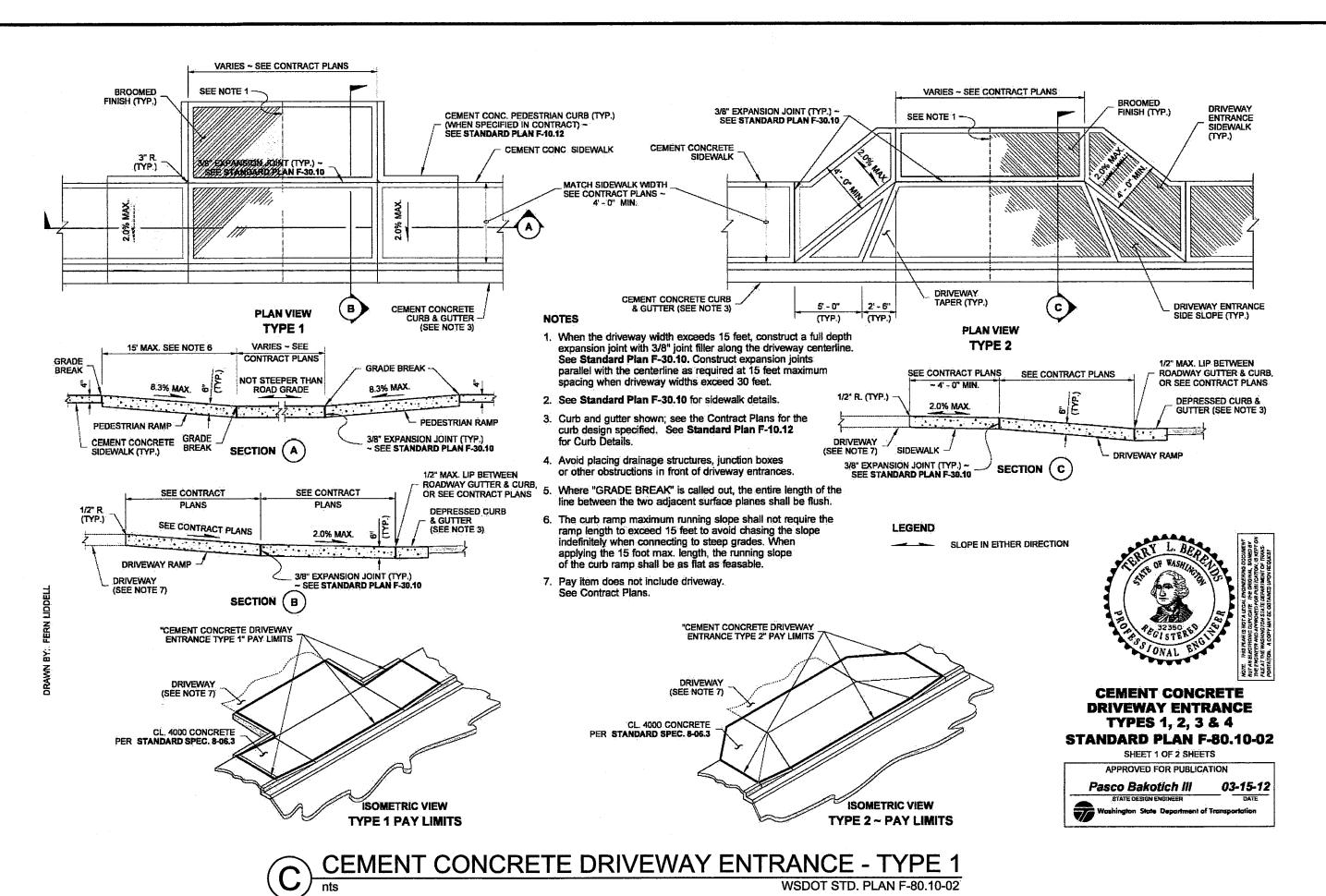
ROJECT LOCATION:

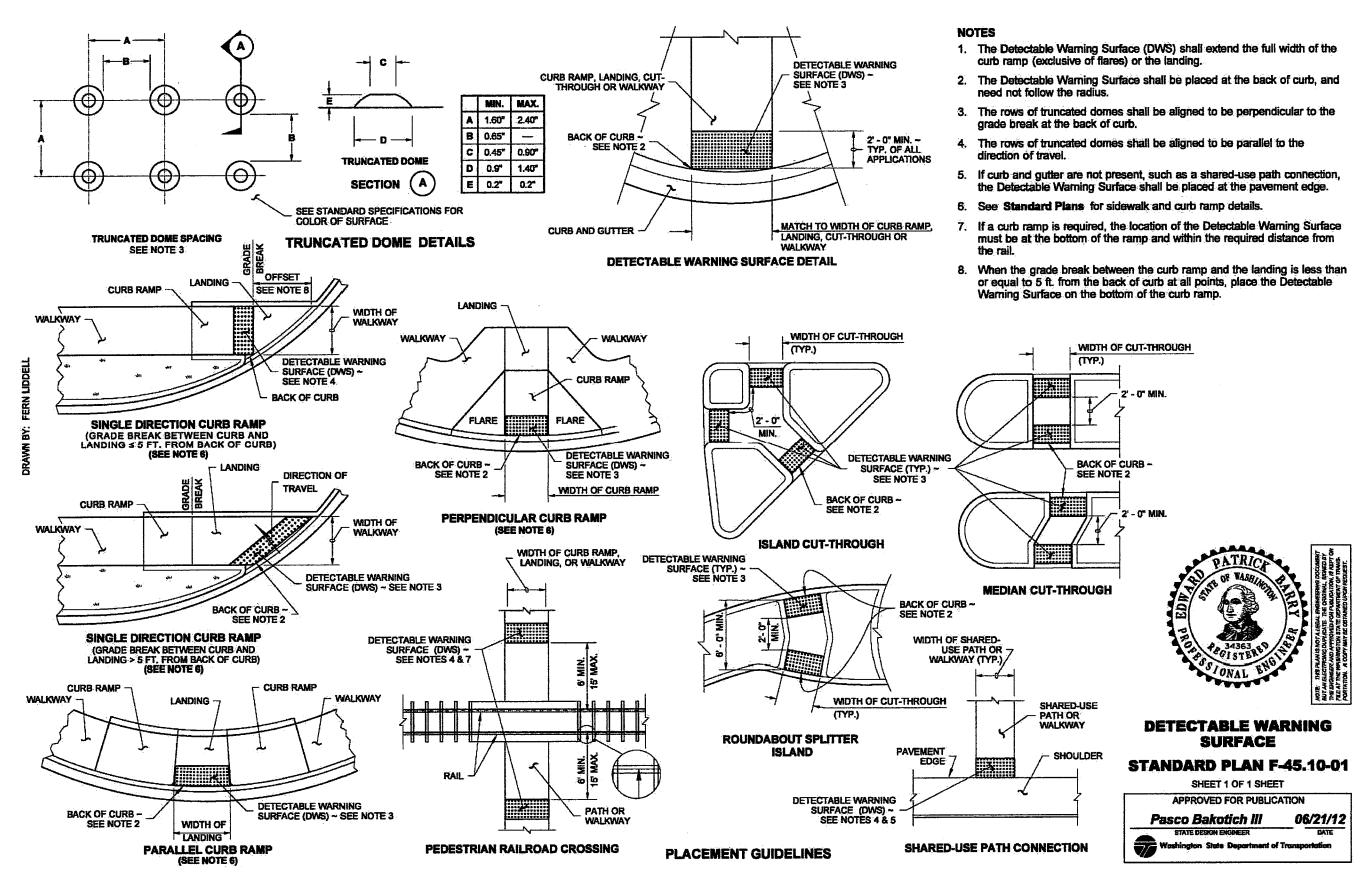
2509 MILL AVENUE

BELLINGHAM, WA 98225

6061 PORTAL WAY FERNDALE, WA 98248

Bellingham, WA 98225





DETECTABLE WARNING SURFACE

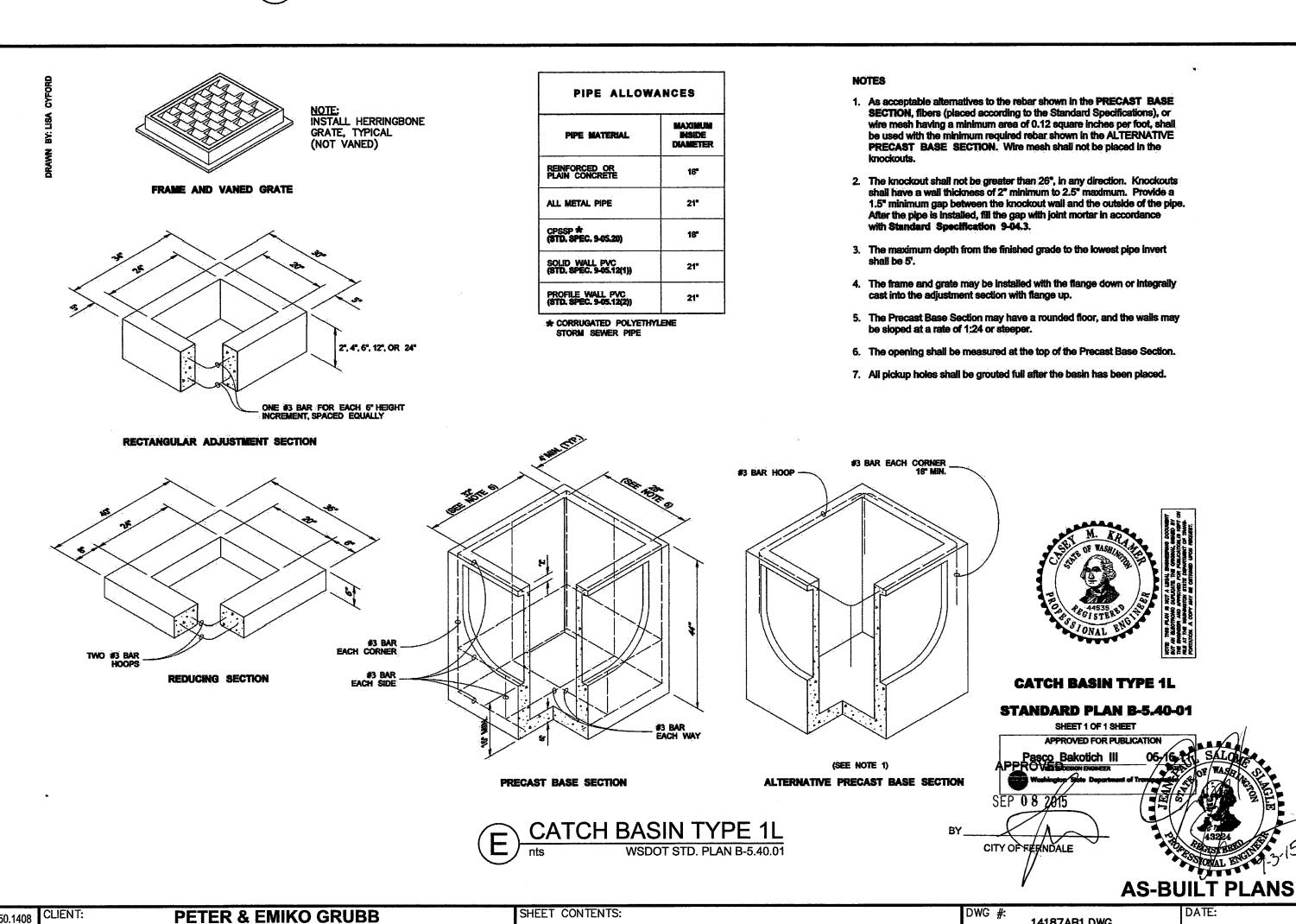
MSDOT STD. PLAN F-80.10-02

REVISION

1 2-20-15 REVISED PER CITY OF FERNDALE COMMENTS

No.

Date



PORTAL WAY FRONTAGE DETAILS

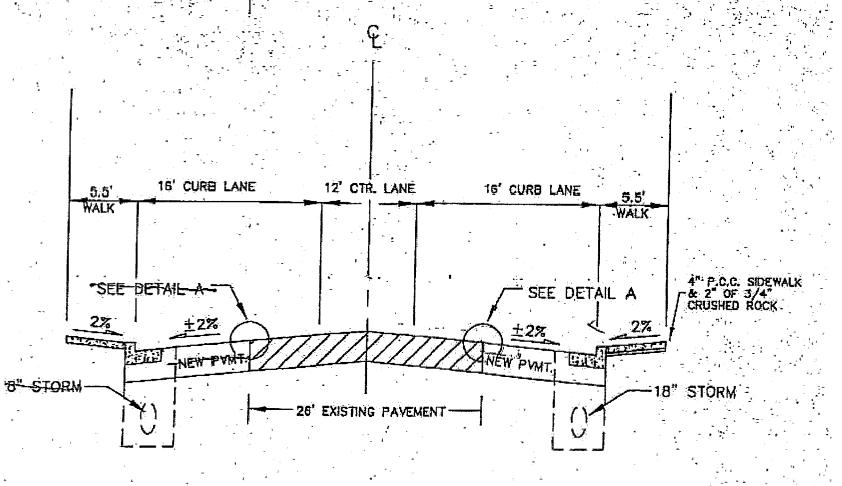
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H: N/A

9-3-2015

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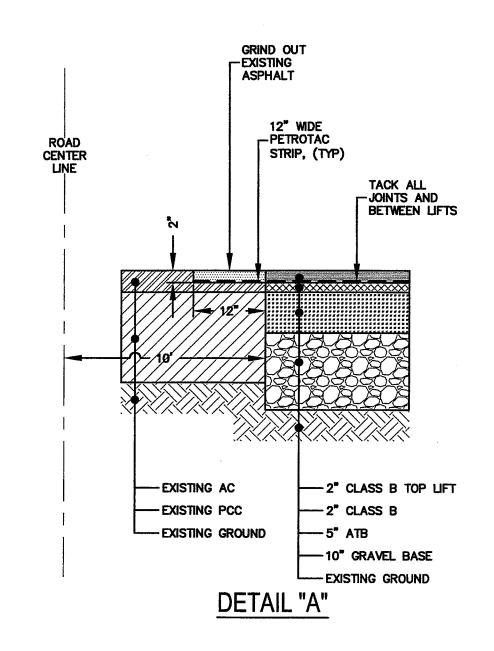


PORTAL WAY STREET IMPROVEMENT

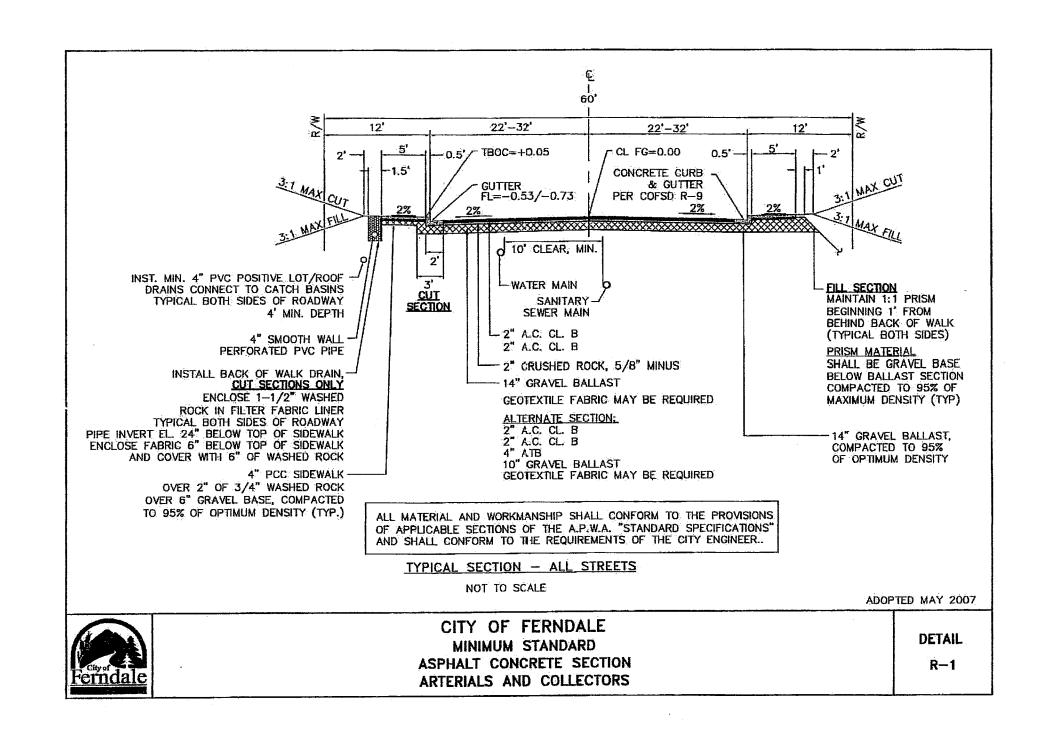
NO SCALE

SECTION F - F

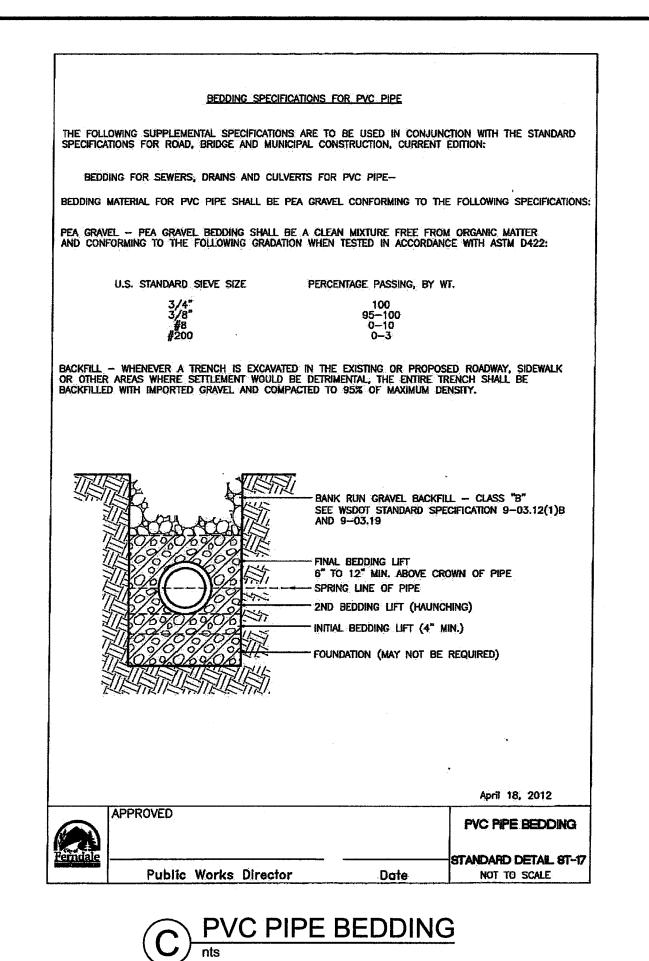
1. 3/4 Street-improvements. The existing center paved strip, approximately 26 feets wide, does not need to be replaced or modified, provided that the existing edge of pavement is constructed in accordance with Detail A: The required improvements are from the edge of the -existing-payement to the property being developed, including road widening, ourb, gutter, sidewalk and storm-drainage.







ROAD SECTION - ARTERIALS AND COLLECTORS



APPROVED 220 West Champion Street, Suite 200 t: 360.650.1408 PETER & EMIKO GRUBB SHEET CONTENTS:

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1 2-20-15 REVISED PER CITY OF FERNDALE COMMENTS Date REVISION

Bellingham, WA 98225 & ASSOCIATES

DRAWN BY:

SCR

CHECKED BY:

f: 360.650.1401 FREELAND

2509 MILL AVENUE BELLINGHAM, WA 98225 6061 PORTAL WAY FERNDALE, WA 98248

PORTAL WAY FRONTAGE DETAILS

		AS-BUILT PLANS	•
DWG #:	14187AB1.DWG	DATE:	
JOB #:	14187	9-3-2015	
SCALE:		SHEET:	
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