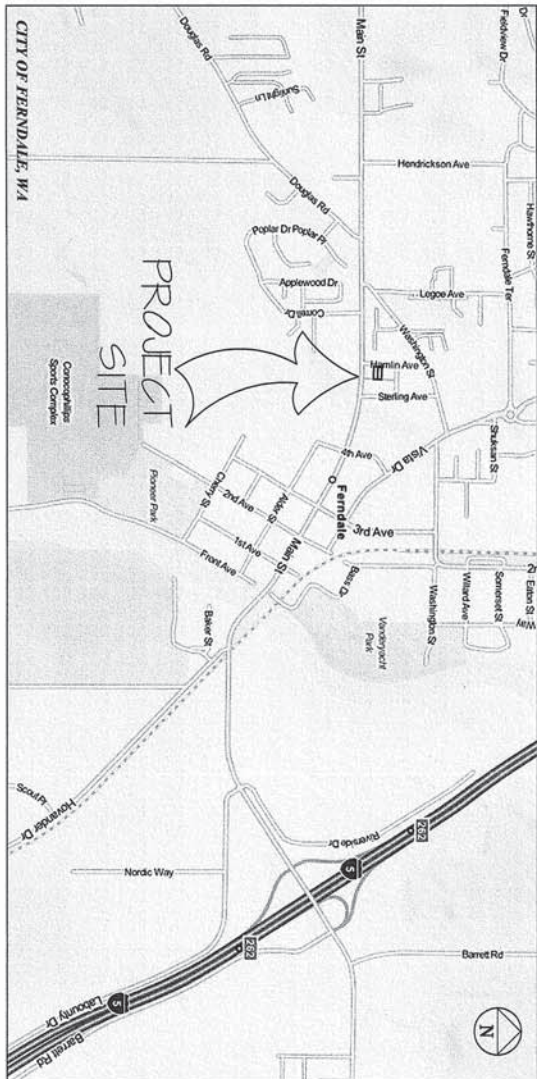


HAMLIN AVE ALLEY IMPROVEMENTS

A PORTION OF THE SE $\frac{1}{4}$, SE $\frac{1}{4}$, SECTION 19, TOWNSHIP 39 NORTH, RANGE 2 EAST OF W.M.
WITHIN THE CITY OF FERNDALE, WASHINGTON



VICINITY MAP (N.T.S.)

EXISTING		PROPOSED	
	MAJOR CONTOUR		MAJOR CONTOUR
	MINOR CONTOUR		MINOR CONTOUR
	PROPERTY LINE		PROPERTY LINE
	WATER LINE		WATER LINE
	WATER METER		WATER METER
	SEWER LINE		SEWER LINE
	SEWER MANHOLE		SEWER MANHOLE
	SEWER CONNECTION		SEWER CONNECTION
	STORM LINE		STORM LINE
	STORM DRAIN CATCH BASIN		STORM DRAIN CATCH BASIN
	STORM CLEAN OUT		STORM CLEAN OUT
	CONCRETE		CONCRETE
	ASPHALT		ASPHALT
	GRAVEL		GRAVEL

ENGINEER'S CERTIFICATION

* I HEREBY CERTIFY THAT THE IMPROVEMENTS IN HAMM LANE ALLEY IMPROVEMENTS HAVE BEEN INSPECTED BY CASCADE ENGINEERING GROUP, P.S., INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.*

Michael Morris
MICHAEL DISPIGNO, P.E. 83609
12-17-2013
DATE

SURVEYOR'S CERTIFICATION

CEESTAY, THE AUGUST 28, 2013 A FIELD SURVEY WAS PERFORMED AT HAILMAN AVE. ALLEY IMPROVEMENTS BY ME OR UNDER MY DIRECTION, AND THAT DATA FROM THAT FIELD SURVEY, INCLUDING LOCATION SHOTS, INSET MEASUREMENTS AND FIELD BOOK NOTES, WERE SUBMITTED TO CADCORE ENGINEERING GROUP 35, INC. OF FIELD ROCK NOTES, USED IN THE PREPARATION OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK, MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 352.190.000.

SCOTT HARKSELL, P.L.S. No.32430

DATE 12-19-2017



PROJECT DIRECTORY

CONTRACT DRAWINGS FOR:

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CONSULTING ENGINEER:

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360-306-8161
MICHAEL J. DISPIGNO, PE

SHEET INDEX

- C1 COVER SHEET, INDEX, LEGEND, VICINITY MAP
- C2 GENERAL NOTES
- C3 S.W.P.P. NOTES
- C4 EXISTING CONDITIONS AND S.W.P.P. PLAN
- C5 ALLEY PROFILE
- C6 STORMLINE PROFILE
- C7 DETAILS

APPROVED

JAN 17 2014

BY J. M. G. A., P. E.
CITY OFFERDALE

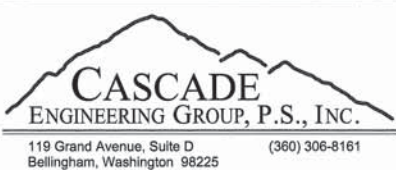


RECORD DRAWING 12-17-2013

FERNDALE, WA

HAMLIN AVE ALLEY IMPROVEMENTS

COVER



REVISIONS	DATE
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DATE: 12/05/2012
DESIGN: MJD
DRAWN: ELR
CHECKED:

SCALE: AS SHOWN

PROJECT NUMBER:

UNRU0001

SHEET NO.

9

1. ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AND ITS AMENDMENTS (TWOSE) (SPECS) AND THE 2005 VERSION OF THE DEPARTMENT OF ECOLOGY'S STORED WATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (DEE MANUAL). IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.


- ### UNDERGROUND UTILITIES CONSTRUCTION:

- ## WATER

- 3

- CALL BEFORE YOU DIG**
COIN TOLL FREE
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FERNDALE, WA
HAMLIN AVE
ALLEY IMPROVEMENTS
GENERAL NOTES



CASCADE
ENGINEERING GROUP, P.S., INC.

119 Grand Avenue, Suite D (360) 306-8161
Bellingham, Washington 98225



DATE: 12/05/2012
DESIGN: MJD
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CHECKED:

C2

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

THIS STORMWATER POLLUTION PREVENTION PLAN IS PROVIDED IN GENERAL ACCORDANCE WITH THE TERMS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS ADVISED THAT THE PROJECT AREA MAY DRAIN TO WETLANDS AND/OR STATE WATERS AND THAT THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE RECEIVING WATERS FROM DEleterious EFFECTS OF CONSTRUCTION.

THE CONTRACTOR IS REQUIRED TO HAVE A COPY OF THE SWPPP ONSITE AT ALL TIMES.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE EROSION CONTROL MEASURES SHOWN OR DESCRIBED IN THE CONTRACT DOCUMENTS AND ANY ADDITIONAL MEASURES THAT MAY BE REQUIRED BY THE CONTRACTORS MEANS AND METHODS OF CONSTRUCTION AS NEEDED TO CONTROL EROSION AND SEDIMENT AT THE CONSTRUCTION SITE AND TO PREVENT VIOLATION OF SURFACE WATER QUALITY, GROUND WATER QUALITY, OR SEDIMENT MANAGEMENT STANDARDS. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL ALL DISTURBED BARTH IS STABILIZED IN FINISH GRADES.

THE FOLLOWING DESCRIBES HOW THE CONSTRUCTION SWPPP ADDRESSES EACH OF THE 12 REQUIRED ELEMENTS. REFER TO THESE PLANS FOR DRAWINGS OF THE PROJECT, VICINITY MAP, SITE MAP, CONVEYANCE SYSTEMS, EROSION AND SEDIMENT CONTROL MEASURES, AND EROSION AND SEDIMENT CONTROL DETAILS.

ELEMENT #1: PRESERVE VEGETATION/MARK CLEARING LIMITS
1. PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES INCLUDING CLEARING AND GRADING) CLEARLY MARK ALL CONSTRUCTION LIMITS AS SHOWN ON THE DRAWINGS.

2. SILT FENCE, GEOTEXTILE ENCASED BARRIERS, CONSTRUCTION FENCE, ORANGE PLASTIC FENCE, OR OTHER APPROVED MEASURES MAY BE USED TO MARK THE CLEARING LIMITS AT THE CONTRACTORS OPTION.

3. THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICABLE.

SUGGESTED BMP-BMPs TO BE USED:

BMP C101: PRESERVING NATIVE VEGETATION

BMP C103: HIGH VISIBILITY PLASTIC OR METAL FENCE

ELEMENT #2: ESTABLISH CONSTRUCTION ACCESS

1. CONSTRUCT ACCESS ROADS AND EXIT SHALL UTILIZE EXISTING SITE ACCESS ROADS AND PAVED AREAS TO MINIMIZE TRACKING OF SEDIMENT ONTO PUBLIC ROADS.

2. IF SEDIMENT IS TRACKED OFF SITE, PUBLIC ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY DURING WET WEATHER. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

3. STREET WASHING IS ALLOWED ONLY AFTER SEDIMENT IS REMOVED AS DESCRIBED ABOVE. STREET WASH WASTEWATER SHALL BE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.

SUGGESTED BMP-BMPs TO BE USED:

BMP C105: STABILIZED CONSTRUCTION ENTRANCE

BMP C107: CONSTRUCTION ROAD / PARKING AREA STABILIZATION

ELEMENT #3: CONTROL FLOW RATES

1. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE.

SUGGESTED BMP-BMPs TO BE USED:

BMP C201: CHECK DAMS

BMP C206: TRIANGULAR SILT DOME

BMP C205: STRAW MATS

ELEMENT #4: INSTALL SEDIMENT CONTROLS

1. THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICABLE.
2. SEDIMENT CONTROL BMPs SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS IN GRADING. THESE BMPs SHALL BE FUNCTIONAL BEFORE OTHER LAND DISTURBING ACTIVITIES TAKE PLACE.

3. PRIOR TO LEAVING THE CONSTRUCTION SITE, STORMWATER RUNOFF FROM DISTURBED AREAS SHALL PASS THROUGH AN APPROPRIATE SEDIMENT REMOVAL BMP. RUNOFF FROM FULLY STABILIZED AREAS MAY BE DISCHARGED WITHOUT A SEDIMENT REMOVAL BMP, BUT MUST MEET THE FLOW CONTROL PERFORMANCE STANDARD OF ELEMENT #3.

SUGGESTED BMP-BMPs TO BE USED:

BMP C202: CHANNEL LINING

BMP C209: OUTLET PROTECTION

ELEMENT #5: STABLE SOILS

1. EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPs THAT PROTECT THE SOIL FROM EROSION FORCES OF RAINFALL, FLOWING WATER, AND WIND.
2. TO PREVENT EROSION, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN THE TIME PERIODS SET FORTH BELOW:

DURING THE WET SEASON (OCTOBER 1 - APRIL 30): 2 DAYS
DURING THE DRY SEASON (MAY 1 - SEPT. 30): 7 DAYS

THIS STABILIZATION REQUIREMENT APPLIES TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. THESE TIMES MAY BE ADJUSTED BY THE LOCAL PERMITTING AUTHORITY IF IT CAN BE SHOWN THAT SITE CONDITIONS ON THE APPLICABLE TIME BETWEEN STORM EVENTS JUSTIFIES A DIFFERENT STANDARD.
3. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST.

4. SOIL STOCKPILES SHALL BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURES, AND WHERE POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS.

5. APPLICABLE BMPs INCLUDE, BUT ARE NOT LIMITED TO: TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, EROSION CONTROL FABRICS AND MATTING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED AND DUST CONTROL. SELECT SOIL STABILIZATION MEASURES SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND THE POTENTIAL WATER QUALITY IMPACTS.

6. REMOVE ALL EROSION CONTROL MEASURES AS SOON AS PRACTICAL AFTER ESTABLISHMENT OF UNIFORM GRASS GROWTH OR INSTALLATION OF OTHER PERMANENT STABILIZATION MEASURES. REPAIR ANY DAMAGE TO STABILIZED SURFACES AFTER REMOVAL OF TESC MEASURES.

SUGGESTED BMP-BMPs TO BE USED:

BMP C120: TEMPORARY AND PERMANENT SEEDING

BMP C122: NETS AND BLANKETS

BMP C123: PLASTIC COVERING

ELEMENT #6: PROTECT SLOPES

1. DESIGN, CONSTRUCT, AND PHASE CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, REDUCING CONTINUOUS LENGTH OF SLOPE WITH TERRACING AND SURFACING (e.g., TRACK WALKING).
2. OFF-SITE STORMWATER RUN-ON OR GROUNDWATER SHALL BE DIVERTED AWAY FROM SLOPES AND DISTURBED AREAS WITH INTERCEPTOR DIKES, PILES, AND/OR SWALES. OFF-SITE STORMWATER SHOULD BE MANAGED SEPARATELY FROM STORMWATER GENERATED ON THE SITE.

3. DO NOT CLEAR AND GRUB SLOPES GREATER THAN 4 (HORIZONTAL) TO 1 (VERTICAL). SLOPES SHALL BE STABILIZED PRIOR TO THE INSTALLATION OF THE SLOPES TO BE CLEARED AND GRUBBED IS SCHEDULED.

4. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.
5. CHECK DAMS SHALL BE PLACED AT REGULAR INTERVALS WITHIN CONSTRUCTED CHANNELS THAT ARE CUT DOWN A SLOPE.

SUGGESTED BMP-BMPs TO BE USED:

BMP C201: TEMPORARY AND PERMANENT SEEDING

BMP C207: TRIANGULAR SILT DOME

ELEMENT #7: PROTECT DRAIN INLETS

1. ALL STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION AND ALL INLETS WITHIN 200' DOWNSTREAM OF THE PROJECT SITE SHALL BE PROTECTED WITH CATCH BASIN FILTERS SO THAT STORMWATER RUNOFF DOES NOT ENTER THE DRAINAGE SYSTEM. CATCH BASIN FILTERS SHALL BE MAINTAINED AND REMOVE SEDIMENT. CATCH BASIN FILTERS IN THE ROADWAY WILL BE OIL AND SEDIMENT FILTERS AND CATCH BASIN FILTERS OUTSIDE OF THE ROADWAY WILL BE SEDIMENT FILTERS.
2. APPROACH ROADS SHALL BE KEPT CLEAN. SEDIMENT AND STREET WASH WATER SHALL NOT BE ALLOWED TO ENTER STORM DRAINS WITHOUT PRIOR AND ADEQUATE TREATMENT.
3. INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACED WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE (OR WHEN FILLED WITH SIX INCHES OF SEDIMENT).

SUGGESTED BMPs TO BE USED:

BMP C202: CHANNEL LINING

BMP C209: OUTLET PROTECTION

ELEMENT #8: STABILIZE CHANNELS AND OUTLETS

1. ALL TEMPORARY ON-SITE CONVEYANCE CHANNELS SHALL BE DESIGNED TO CARRY THE DESIGN FLOW WITHOUT EROSION. CHANNELS SHALL BE DESIGNED TO MINUTE VELOCITY OF FLOW FROM A TYPE 1A, 10-YR, 24-HR FREQUENCY STORM FOR THE DEVELOPED CONDITION. ALTERNATIVELY, THE 10-YR, 1-HR FLOW RATE INDICATED BY AN APPROVED CONTINUOUS RUNOFF MODEL, INCREASED BY A FACTOR OF 1.6, MAY BE USED.
2. STABILIZATION, INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES, AND DOWNSTREAM SYSTEMS.
3. MAINTENANCE, REPAIR, AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES SHALL BE CONDUCTED IMMEDIATELY FOLLOWING ANY CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY SPILL INCIDENT.

4. WHEEL WASH OR TREE BATH WASTEWATER SHALL BE DISCHARGED TO A SEPARATE ONSITE TREATMENT SYSTEM OR TO THE SANITARY SEWER WITH LOCAL SEWER DISTRICT APPROVAL.
5. APPLICATION OF FERTILIZERS AND PESTICIDES SHALL BE CONDUCTED IN A MANNER AND AT A FREQUENCY THAT DOES NOT CAUSE LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS LABEL REQUIREMENTS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.

6. BMPs SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY A MODIFYING SOURCE. SUCH SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PLUMBING AND MIXER WASHOUT WATERS. PERMITTEES SHALL ADJUST THE pH OF STORMWATER IF NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS.
7. PERMITTEES SHALL OBTAIN WRITTEN APPROVAL FROM ECOLOGY PRIOR TO USING CHEMICAL TREATMENT, OTHER THAN CARBON DIOXIDE OR DRY ICE TO ADJUST pH.

SUGGESTED BMP-BMPs TO BE USED:

BMP C151: CONCRETE HANDLING

BMP C152: SAMPLING AND SURFACING POLLUTION PREVENTION

ELEMENT #10: CONTROL DEWATERING

1. FOUNDATION, VAULT, AND TRENCH DEWATERING WATER, WHICH HAVE BEEN TREATED BY A DEWATERING SYSTEM, SHALL BE DISCHARGED TO A SEDIMENT TRAP OR SEDIMENT POND.
2. CLEAN, NON-TURBID DEWATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO, OR DIRECTLY INTO SURFACE WATERS OF THE STATE, AS SPECIFIED IN ELEMENT #6. PROVIDED THE DEWATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS, CLEAN DEWATERING WATER SHOULD NOT BE ROUTED THROUGH STORMWATER SEDIMENT PONDS.
3. OTHER DEWATERING DISPOSAL OPTIONS MAY INCLUDE:
a) INFILTRATION
b) TRANSPORT OFF-SITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS.
c) ECOLOGY APPROVED ON-SITE CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES.
d) SANITARY SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, IF THE USE OF DEWATERING BAG, PORTING OR APPROVED EQUAL, WITH OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DEWATERING.

4. HIGHLY TURBID CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A CONFERMAD SHALL BE HANDLED SEPARATELY FROM STORMWATER.

ELEMENT #11: MAINTAIN BMPs

1. INSPECT EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT. MAKE NECESSARY REPAIRS AND MAINTENANCE TO ENSURE CONTINUED PERFORMANCE OF EROSION AND SEDIMENT CONTROLS.
2. WHEN SEDIMENT ACCUMULATION IN SEDIMENTATION STRUCTURES, OTHER THAN INLET PROTECTION DEVICES, HAS REACHED A POINT ONE-THIRD DEPTH OF SEDIMENT STRUCTURE OR DEGREE, OR IF FLOW THROUGH THE DEVICE IS MORE THAN ONE-HALF CAPACITY, THE CONTRACTOR SHALL REMOVE AND REPLACE DISPOSABLE DEVICES OR CLEAN AND DISPOSE OF SEDIMENT.
3. 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 SOILS SHALL BE PERMANENTLY STABILIZED.
4. IF THE PROJECT PERIOD, THE CONTRACTOR MUST INCLUDE A BRIEF EXPLANATION IN THE MONTHLY DISCHARGE MONITORING REPORT (DMR).
5. SAMPLING IS NOT REQUIRED BEFORE CONSTRUCTION ACTIVITY BEGINS.

6. SAMPLING IS REQUIRED AT ALL POINTS WHERE STORMWATER DISCHARGES FROM THE SITE OR ENTERS ANY ON-SITE SURFACE WATERS OF THE STATE.
7. SAMPLES MUST BE REPRESENTATIVE OF THE FLOW AND CHARACTERISTICS OF THE DISCHARGE.
8. SAMPLING IS NOT REQUIRED WHEN THERE IS NO DISCHARGE DURING A CALENDAR WEEK.
9. SAMPLING IS NOT REQUIRED OUTSIDE OF NORMAL WORKING HOURS OR DURING UNUSUAL CONDITIONS.
10. IF THE PROJECT PERIOD, THE CONTRACTOR MUST INCLUDE A BRIEF EXPLANATION IN THE MONTHLY DISCHARGE MONITORING REPORT (DMR).
11. SAMPLING IS NOT REQUIRED BEFORE CONSTRUCTION ACTIVITY BEGINS.

12. SEASONAL WORK LIMITATIONS:
FROM OCTOBER 1 THROUGH APRIL 30, CLEARING, GRADING, AND OTHER SOIL DISTURBING ACTIVITIES SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE LOCAL PERMITTING AUTHORITY THAT THE TRANSPORT OF SEDIMENT FROM THE PROJECT SITE TO ADJACENT WATERS WILL BE PREVENTED THROUGH A COMBINATION OF THE FOLLOWING:
a) SITE CONDITIONS INCLUDING EXISTING VEGETATIVE COVERAGE, SLOPE, SOIL TYPE, AND PROXIMITY TO RECEIVING WATERS; AND
b) LIMITATIONS ON ACTIVITIES AND THE EXTENT OF DISTURBED AREAS; AND
c) PROPOSED EROSION AND SEDIMENT CONTROL MEASURES.

BASED ON THE INFORMATION PROVIDED AND LOCAL WEATHER CONDITIONS, THE LOCAL PERMITTING AUTHORITY MAY DEPEND OR RESTRICT THE SEASONAL LIMITATION ON SITE DISTURBANCE. THE LOCAL PERMITTING AUTHORITY SHALL TAKE ENFORCEMENT ACTION, SUCH AS NOTICE OF VIOLATION, ADMINISTRATIVE ORDER, PENALTY, OR STOP-WORK ORDER UNDER THE FOLLOWING CIRCUMSTANCES:
- IF, DURING THE COURSE OF ANY CONSTRUCTION ACTIVITY OR SOIL DISTURBANCE DURING THE SEASONAL LIMITATION PERIOD, SEDIMENT LEAVES THE CONSTRUCTION SITE CAUSING A VIOLATION OF THE SURFACE WATER QUALITY STANDARD OR EXCEEDS LIMITS OF EROSION AND SEDIMENT CONTROL MEASURES SHOWN IN THE APPROVED PLAN ARE NOT MAINTAINED.

THE FOLLOWING ACTIVITIES ARE EXEMPT FROM THE SEASONAL CLEARING AND GRADING LIMITATIONS:

a) ROUTINE MAINTENANCE AND NECESSARY REPAIR OF EROSION AND SEDIMENT CONTROL BMPs;
b) ROUTINE MAINTENANCE OF PUBLIC FACILITIES OR EXISTING UTILITY STRUCTURES THAT DO NOT EXPOSE THE SOIL OR RESULT IN THE REMOVAL OF THE VEGETATIVE COVER TO SOIL; AND
c) ACTIVITIES WHERE THERE IS ONE HUNDRED PERCENT INFILTRATION OF SURFACE WATER RUNOFF WITHIN THE SITE IN APPROVED AND INSTALLED EROSION AND SEDIMENT CONTROL FACILITIES.

3. COORDINATE WITH UTILITIES AND OTHER CONTRACTORS:
THE PRIMARY PROJECT PROPONENT SHALL EVALUATE, WITH INPUT FROM UTILITIES AND OTHER CONTRACTORS, THE STORMWATER MANAGEMENT REQUIREMENTS FOR THE ENTIRE PROJECT, INCLUDING THE UTILITIES, WHEN PREPARING THE CONSTRUCTION SWPPP.

4. INSPECTION AND MONITORING:
a) INSPECTION AND MONITORING OF EROSION AND SEDIMENT CONTROL SHALL BE IDENTIFIED AT THE PRE-CONSTRUCTION MEETING AND SHALL BE KEPT ON-CALL AT ALL TIMES. EMERGENCY CONTACT INFORMATION SHALL BE KEPT ON-SITE. CERTIFICATION MAY BE THROUGH THE CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL CERTIFICATION PROGRAM OFFERED BY WSDOT. ASSOCIATED GENERAL CERTIFICATIONS OF WASHINGTON, EDUCATION FOUNDATION, OR ANY EQUIVALENT LOCAL OR NATIONAL CERTIFICATION AND/OR TRAINING PROGRAM.
b) IF INSPECTION AND/OR WATER MONITORING OF SITE RUNOFF REVEALS THAT THE BMPs IDENTIFIED IN THE CONSTRUCTION SWPPP ARE NOT EFFECTIVE, THE CONTRACTOR SHALL IMMEDIATELY ADD BMPs TO THE SWPPP AS NECESSARY.

c) SITE LOG BOOK: THE CONTRACTOR MUST MAINTAIN A SITE LOG BOOK THAT CONTAINS A RECORD OF THE IMPLEMENTATION OF THE SWPPP AND OTHER PERMIT REQUIREMENTS, INCLUDING THE INSTALLATION AND MAINTENANCE OF BMPs, SITE INSPECTIONS, AND STORMWATER MONITORING.
d) SITE INSPECTIONS: THE CONTRACTOR MUST INSPECT ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, ALL BMPs, AND ALL STORMWATER DISCHARGE POINTS AT LEAST ONCE EVERY CALENDAR WEEK AND WITHIN 24 HOURS OF ANY DISCHARGE FROM THIS SITE. THE CONTRACTOR MUST EXAMINE STORMWATER VISUALLY FOR THE PRESENCE OF SUPERNOSED SEDIMENT, TURBIDITY, DISCOLORATION, AND OIL SHEEN. THE EFFECTIVENESS OF BMPs MUST BE EVALUATED AND DETERMINE IF IT IS NECESSARY TO INSTALL, MAINTAIN, OR REPAIR BMPs TO IMPROVE THE QUALITY OF STORMWATER DISCHARGES.

THE CONTRACTOR MUST SUMMARIZE THE RESULTS OF EACH INSPECTION IN AN INSPECTION REPORT OR CHECKLIST AND ENTER THE REPORT/CHECKLIST INTO, OR ATTACH IT TO, THE SITE LOG BOOK. SEE THE DOES CONSTRUCTION STORMWATER GENERAL PERMIT, SECTION 5.4.B.5, FOR INFORMATION REQUIREMENTS FOR COMPLETING THE INSPECTION FORMS.

E) TURBIDITY/TRANSPARENCY SAMPLING REQUIREMENTS

a. SAMPLING FREQUENCY
1. SAMPLING MUST BE AT LEAST ONCE EVERY CALENDAR WEEK. THE CONTRACTOR MUST RECORD THE RESULTS OF EACH SAMPLING EVENT IN THE MONTHLY DISCHARGE MONITORING REPORT (DMR).
2. SAMPLING IS NOT REQUIRED OUTSIDE OF NORMAL WORKING HOURS OR DURING UNUSUAL CONDITIONS.
3. IF THE PROJECT PERIOD, THE CONTRACTOR MUST INCLUDE A BRIEF EXPLANATION IN THE MONTHLY DISCHARGE MONITORING REPORT (DMR).
4. SAMPLING IS NOT REQUIRED BEFORE CONSTRUCTION ACTIVITY BEGINS.
b. SAMPLING LOCATIONS
1. SAMPLING IS REQUIRED AT ALL POINTS WHERE STORMWATER DISCHARGES FROM THE SITE OR ENTERS ANY ON-SITE SURFACE WATERS OF THE STATE.
2. SAMPLES MUST BE REPRESENTATIVE OF THE FLOW AND CHARACTERISTICS OF THE DISCHARGE.
3. SAMPLING IS NOT REQUIRED WHEN THERE IS NO DISCHARGE DURING A CALENDAR WEEK.
4. SAMPLING IS NOT REQUIRED OUTSIDE OF NORMAL WORKING HOURS OR DURING UNUSUAL CONDITIONS.
5. IF THE PROJECT PERIOD, THE CONTRACTOR MUST INCLUDE A BRIEF EXPLANATION IN THE MONTHLY DISCHARGE MONITORING REPORT (DMR).
6. SAMPLING IS NOT REQUIRED BEFORE CONSTRUCTION ACTIVITY BEGINS.
c. SAMPLING AND ANALYSIS METHODS
1. THE CONTRACTOR PERFORMS TURBIDITY ANALYSIS WITH A CALIBRATED TURBIDITY METER (TURBIDIMETER) EITHER ON SITE OR AT AN ACCREDITED LAB. THE CONTRACTOR MUST RECORD THE RESULTS IN THE SITE LOG BOOK IN METRIC (CENTIMETERS) OR INCHES (INCHES).
2. THE CONTRACTOR PERFORMS TRANSPARENCY ANALYSIS ON SITE WITH A 1% - INCH DIAMETER, 60 - CENTIMETER (CM) - LONG TRANSPARENCY TUBE. THE CONTRACTOR WILL RECORD THE RESULTS IN THE SITE LOG BOOK IN CENTIMETERS (CM).
3. SEE TABLE BELOW FOR MONITORING BENCHMARKS. SEE THE DOES CONSTRUCTION STORMWATER GENERAL PERMIT, SECTION 5.4.C.5 FOR TURBIDITY/TRANSPARENCY BENCHMARK VALUES AND REPORTING TRIGGERS.

TABLE 4. MONITORING AND REPORTING REQUIREMENTS				
PARAMETER	UNIT	ANALYTICAL METHOD	BENCHMARK VALUE	PHONE REPORTING TRIGGER VALUE
TURBIDITY	NTU	SECTION 5.0.1.1.1	25 NTU	250 NTU
TRANSPARENCY (CM)	CM	SECTION 5.0.1.1.2	30 CM	6 CM

5. THE CONSTRUCTION SWPPP SHALL BE RETAINED ON-SITE. THE CONTRACTORS TESC RECORD OF RAINFALL, TESC MEASURES, AND INSPECTION SHALL BECOME PART OF THE SWPPP. THE CONSTRUCTION SWPPP SHALL BE MODIFIED BY THE CONTRACTORS TESC RECORD WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.

APPROVED

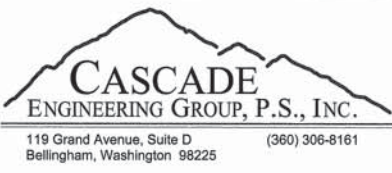
JAN 17 2014

BY *J. G. Re.*
CITY OF FERNDALE



RECORD DRAWING 12-17-2013

FERNDAL, WA
**HAMLIN AVE
ALLEY IMPROVEMENTS**
S.W.P.P.P. NOTES



REVISIONS DATE

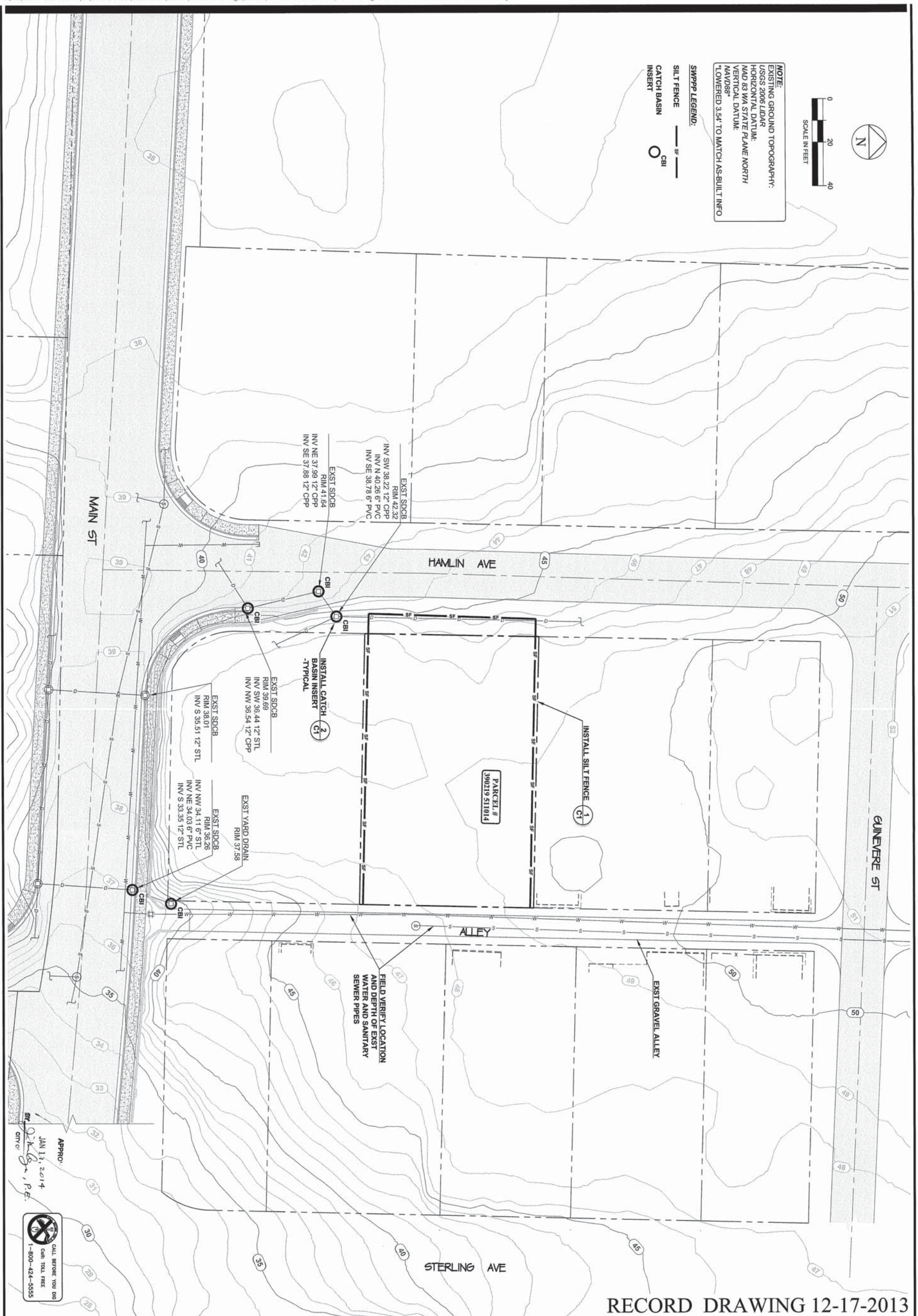
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SCALE: AS SHOWN
PROJECT NUMBER:

UNRU0001

SHEET NO.

C3



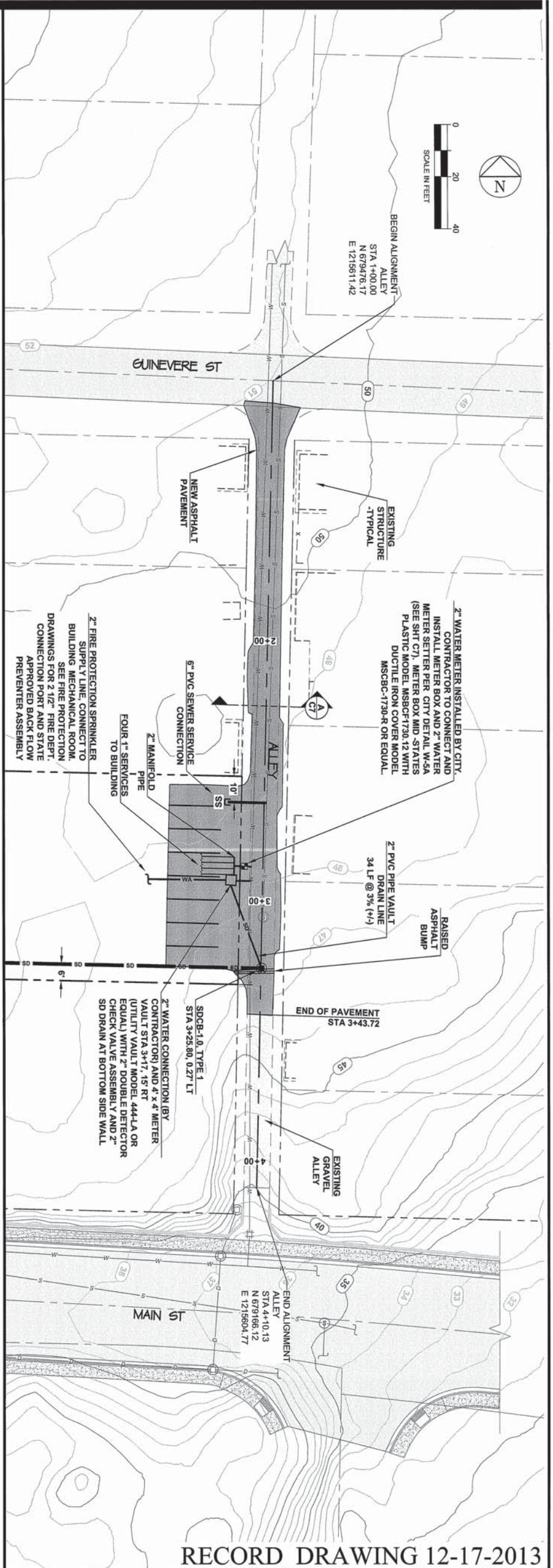
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SHEET NO.	C4
OF	

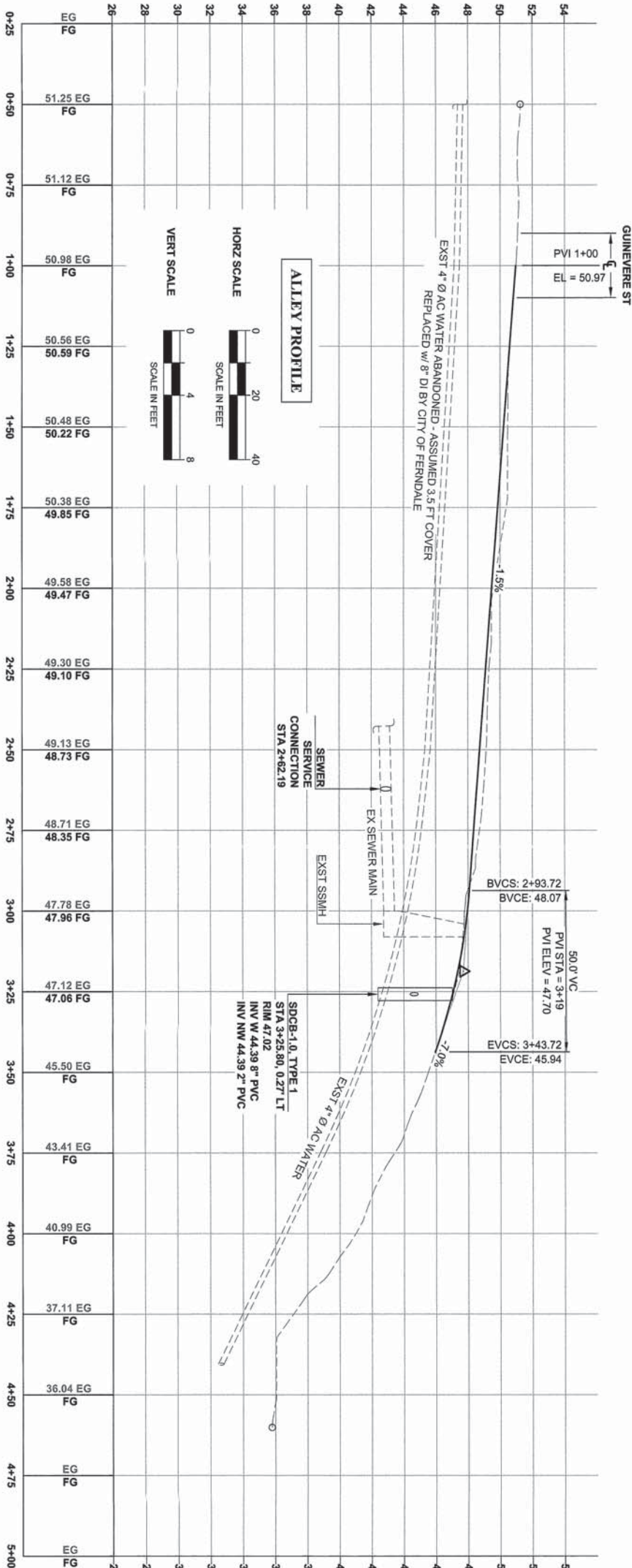
CASCADE
ENGINEERING GROUP, P.S., INC.
119 Grand Avenue, Suite D
Bellingham, Washington 98225
(360) 306-8161



FERNDAL, WA
**HAMLIN AVE
ALLEY IMPROVEMENTS**
EXISTING CONDITIONS AND SWPP PLAN



RECORD DRAWING 12-17-2013



ALLEY PROFILE

VERT SCALE: 1" = 40'

HORZ SCALE: 1" = 40'

SCALE IN FEET

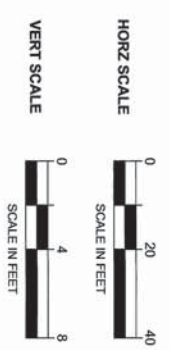
DATE: JAN 17 2014

BY: J. ALLEN, P.E.

CITY OF FERDALE

APPROVED

CALL BEFORE YOU DIG
1-800-424-5555



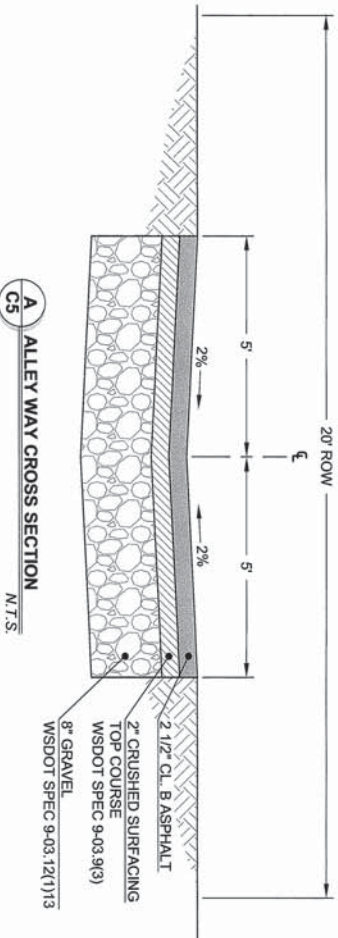
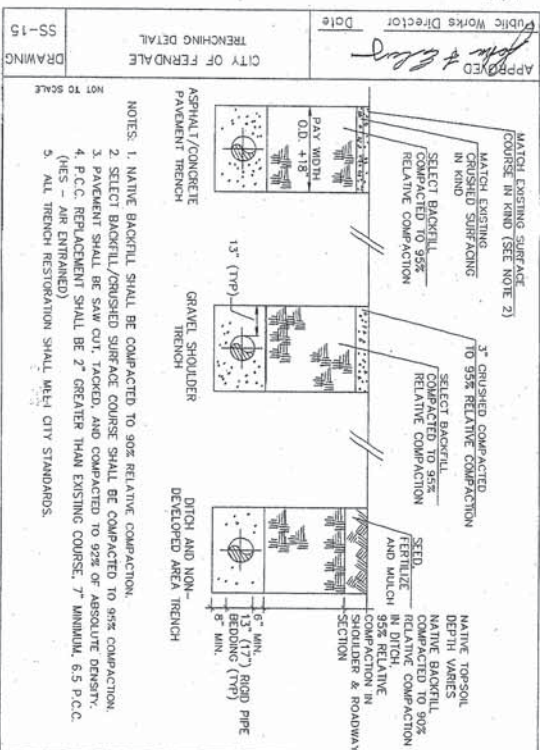
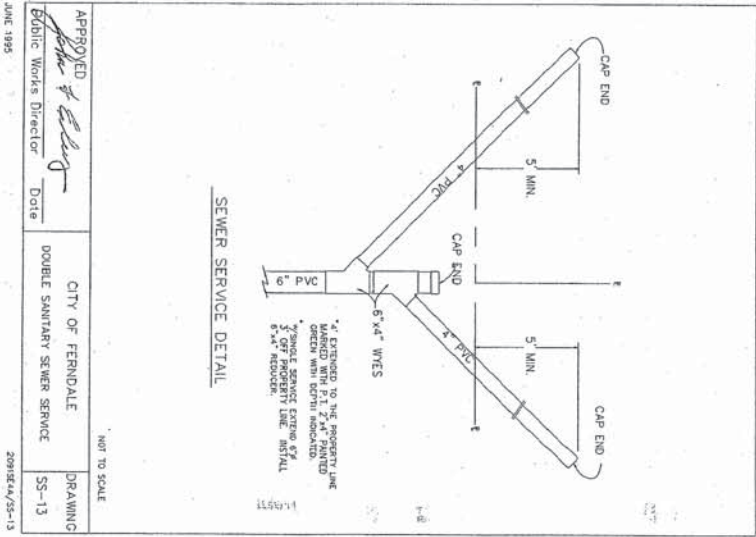
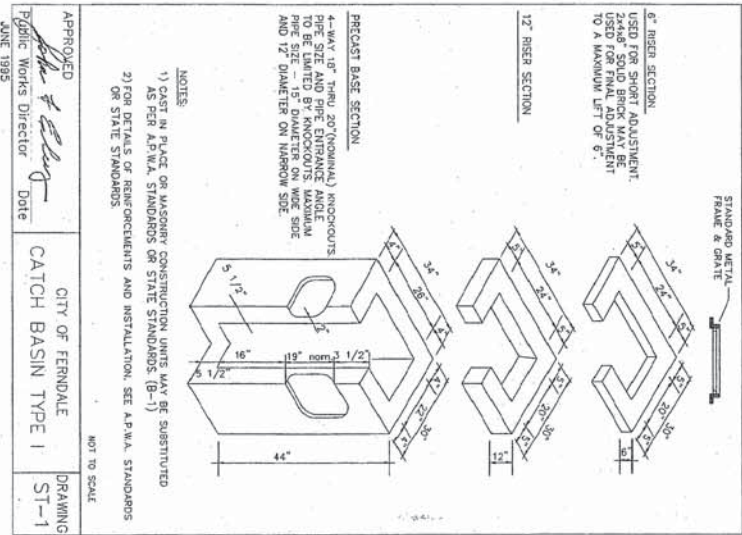
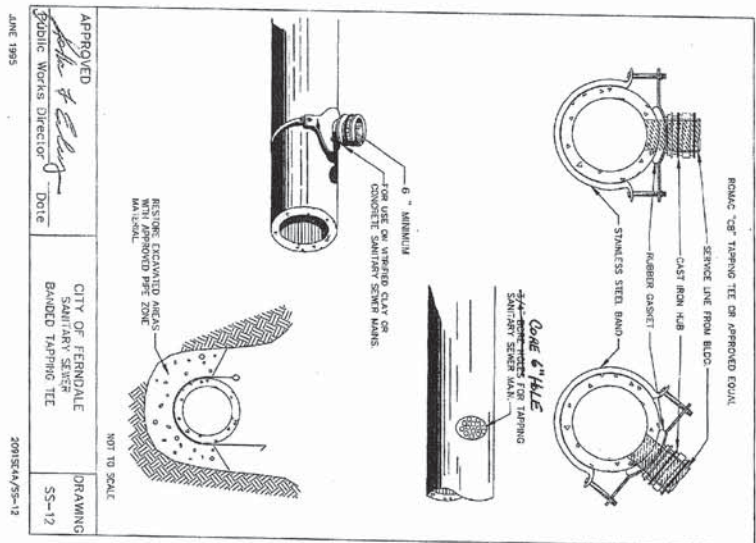
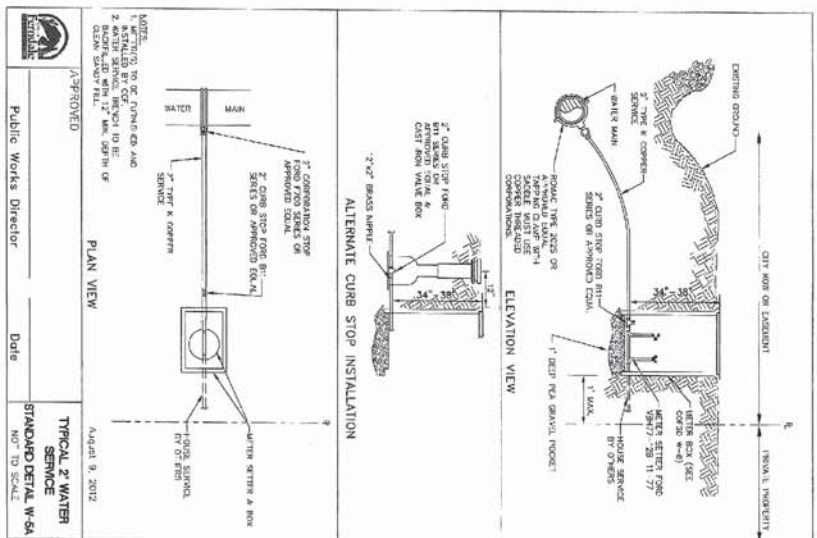
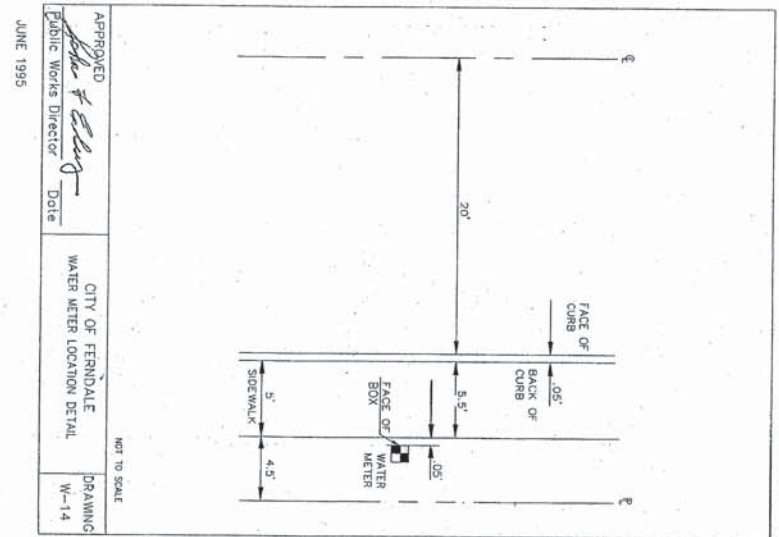
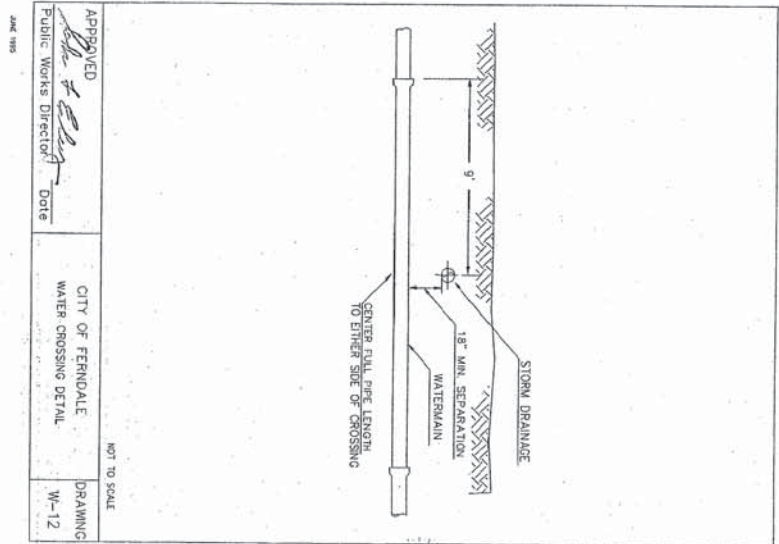
NOTE:

1. STORM PIPE (SD) SHALL BE
PVC ASTM D3034 SDR 35
UNLESS NOTED OTHERWISE.

 CALL BEFORE YOU DIG
Cable: TOLL FREE
1-800-424-5555

FERNDALE, WA
HAMLIN AVE
ALLEY IMPROVEMENTS
STORM LINE PROFILE

PERMISSIONS	DATE
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
DATE:	1/08/2013
DESIGNER:	MJD
DRAWN:	ELA
CHECKED:	_____
SCALE:	AS SHOWN
PROJECT NUMBER:	UNRU0001
SHEET NO.	C6



APPROVED *John F. Kelly* DATE *June 1995*

CITY OF FERNDALE

BY *John F. Kelly* DATE *June 1995*

CITY OF FERNDALE

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RECORD DRAWING 12-17-2013

FERNDAL, WA
HAMLIN AVE
ALLEY IMPROVEMENTS
DETAILS

CASCADE
ENGINEERING GROUP, P.S., INC.
119 Grand Avenue, Suite D
Bellingham, Washington 98225
(360) 306-8161



REVISIONS
DATE

DATE: 12/05/2012
DESIGN: MJD
DRAWN: EJR
CHECKED:

SCALE: AS SHOWN

PROJECT NUMBER:
UNRU0001

SHEET NO.
C7