CRIM SHORT PLAT

5573 SECOND AVENUE

BEING A PTN. OF THE SW 1/4 OF NW 1/4, SEC. 29, TWP. 39N., RGE. 02 E., W.M., CITY OF FERNDALE, WHATCOM COUNTY, STATE OF WASHINGTON

LEGEND

= FOUND BRASS MON
= FOUND ALUMINUM CAP MON
= FOUND CONC MON
= FOUND SQARE CONC MON
= FOUND REBAR AND CAP
= SET 1/2" REBAR W/ PLASTIC CAP
= FOUND IRON PIPE
= FOUND HUB AND TACK
= FOUND PK NAIL
= FOUND PK NAIL AND TAG/SHINNER
= FOUND RR SPIKE
= EXISTING STORM DRAIN CATCH BASIN (TYPE I)
= EXISTING STORM DRAIN CATCH BASIN (TYPE 2)
= EXISTING STORM DRAIN MANHOLE (TYPE 2) (SOLID LID)
= EXISTING STORM DRAIN AREA DRAIN
= EXISTING STORM DRAIN CLEANOUT
= EXISTING STORM DRAIN SERVICE
= PROPOSED RAINLEADER/DOWNSPOUT
= PROPOSED AREA DRAIN
= PROPOSED STORM DRAIN SERVICE
= PROPOSED STORM DRAIN CLEANOUT
= PROPOSED STORM DRAIN CATCH BASIN
= PROPOSED STORM DRAIN MANHOLE (TYPE 2)
= EXISTING SANITARY SEWER MANHOLE
= EXISTING SANITARY SEWER CLEANOUT
= EXISTING SANITARY SEWER SERVICE
= PROPOSED SANITARY SEWER SERVICE
= PROPOSED SEWER CLEANOUT
= PROPOSED SEWER MANHOLE
= EXISTING WATER SERVICE CONNECT
= EXISTING FIRE STAND PIPE
= EXISTING WATER BLOW-OFF VALVE
= EXISTING WATER METER BOX
= EXISTING FIRE HYDRANT
= EXISTING WATER VALVE
= EXISTING WATER VALVE BOXES
= PROPOSED WATER SERVICE CONNECT
= PROPOSED WATER METER BOX
= PROPOSED WATER VALVE
= PROPOSED WATER BLOW-OFF
= PROPOSED FIRE HYDRANT
= PROPOSED FIRE DEPARTMENT CONNECTION
= PROPOSED POST INDICATOR VALVE
= PROPOSED WATER BEND
= PROPOSED THRUST BLOCK
= PROPOSED TEE OR CROSS
= EXISTING POWER/AND OR UTILITY POLE
= EXISTING POWER/AND OR UTILITY POLE
= EXISTING GUY POLE
= EXISTING GUY WIRE
= EXISTING POWER METER/STRUCTURE
= EXISTING POWER VAULT
= EXISTING POWER JBOX/HANDHOLD
= EXISTING LIGHT POLE
= PROPOSED LIGHT POLE
= EXISTING UTILITY POLE
= EXISTING TV BOX
= EXISTING TELEPHONE PEDESTAL
= EXISTING TELEPHONE MANHOLE
= EXISTING MAIL BOX
= EXISTING SIGN
= PROPOSED SIGN
= EXISTING FLAG POLE
= EXISTING LANDSCAPING
= EXISTING GAS METER
= PROPOSED FLOW DIRECTION ARROW
= ADA PARKING SPACE
= PAVEMENT MARKINGS
= DETAIL CALLOUT

= EXISTING OVERHEAD ELECTRIC LINES
= EXISTING FIBER OPTIC LINE
= EXISTING UNDERGROUND POWER
= EXISTING OVERHEAD PHONE
= EXISTING UNDERGROUND PHONE
= EXISTING OVERHEAD UTILITIES (UNKNOWN)
= EXISTING UNDERGROUND TV CABLE
= EXISTING GAS MAIN
= PROPOSED GAS LINE
= EXISTING WATER LINE
= EXISTING FIRE MAIN
= PROPOSED WATER LINE
= PROPOSED IRRIGATION LINE
= PROPOSED SANITARY SEWER LINE
= EXISTING SEWER FORCE MAIN
= PROPOSED SANITARY SEWER LINE
= PROPOSED SANITARY SEWER FORCE LINE
= EXISTING FLOW LINE & DIRECTION
= EXISTING STORM DRAIN LINE
= PROPOSED STORM DRAIN LINE (SOLID WALL)
= PROPOSED STORM DRAIN LINE (PERFORATED)
= PROPOSED FOUNDATION DRAIN
= PROPOSED ROOF DRAIN
= EXISTING CHAIN LINK FENCE
= PROPOSED CHAIN LINK FENCE
= EXISTING BARBED WIRE FENCE
= PROPOSED BARBED WIRE FENCE
= EXISTING FENCE TYPE(
= EXISTING FENCE TYPE(
= EXISTING CONC. FENCE OR RET. WALL
= EXISTING STONE WALL
= EXISTING ORDINARY HIGH WATER LINE
= EXISTING TOP OF BANK
= EXISTING TOE OF BANK
= PROPOSED TOP OF BANK
= PROPOSED TOE OF BANK
= EXISTING CONTOUR (INDEX)
= EXISTING CONTOUR (NORMAL)
= PROPOSED CONTOUR (INDEX)
= PROPOSED CONTOUR (NORMAL)
= PROPOSED DAYLIGHT FILL LINE
= PROPOSED DAYLIGHT CUT LINE
= EXISTING SPOT ELEV @ TOP OF PAVEMENT
= EXISTING SPOT ELEV @ EDGE OF PAVEMENT
= EXISTING SPOT ELEV @ EDGE OF CONC WALK
= EXISTING SPOT ELEV @ TOP OF GROUND
= EXISTING SPOT ELEV @ EDGE OF GRAVEL
= EXISTING SPOT ELEV @ FACE OF CURB
= EXISTING SPOT ELEV @ TOP BACK OF SIDEWALK
= EXISTING SPOT ELEV @ TOP OF CONC WALK OR WALL
= PROPOSED SPOT ELEV @ TOP OF SIDEWALK
= PROPOSED SPOT ELEV @ TOP OF PAVEMENT
= PROPOSED SPOT ELEV @ TOP OF CURB
= PROPOSED SPOT ELEV @ TOP OF FINISHED GRADE
= PROPOSED ASPHALT PAVEMENT
= PROPOSED PAVEMENT REPAIR
= PROPOSED CONCRETE
= PROPOSED GRAVEL SURFACING

SHEET INDEX

PROJECT INFORMATION

OWNER
HUNTER CRIM
GREG CRIM
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FERNDALE, WA 98248

CIVIL ENGINEER
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WATERSHED SCIENCE & ENGINEERING
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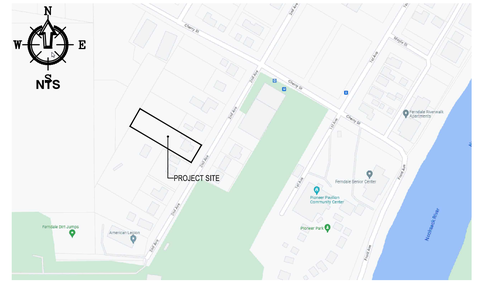
soundgeology@gmail.com

TAX PARCEL
390229041392

NOTE:
POTHOLING ALL EXISTING UTILITIES IS REQUIRED PRIOR TO CONSTRUCTION TO VERIFY DESIGN FEASIBILITY. THE CITY DOES NOT GUARANTEE AS BUILT INFORMATION IN THE CITY DATA BASE IS ACCURATE AND WILL NOT BE HELD RESPONSIBLE IF FIELD MODIFICATIONS ARE REQUIRED BECAUSE POTHOLING WAS NOT DONE PRIOR TO DESIGN.

ALL REQUIRED AND APPROVED CIVIL PLAN IMPROVEMENTS MUST BE COMPLETE AND APPROVED BY PUBLIC WORKS PRIOR TO FINAL PLAT AND/OR BUILDING OCCUPANCY IF ALLOWED BY THE DIRECTOR.

VICINITY MAP



NOTES

1. All work must comply with the following approvals.
   - Approved site plan dated 07-20-23.
   - Short Plat Letter of Decision dated 06-28-23.
   - Approved landscaping plan.
2. Route a copy of the civil plans to Gary Russell, Whatcom County Fire District 7 for review and approval prior to issuance of the land disturbance permit. Send to grussell@wcfd7.org
3. Storm Mitigation Fee due prior to LDP issuance.
4. USPS approval due prior to LDP issuance. If the PO will be providing PO boxes, please have the Postmaster confirm.
5. Landscaping estimate, including types, quantities, and labor shall be provided for the execution of a maintenance bond prior to recording of the final plat.

AS-BUILT DRAWING
AS-BUILT NOTE:
ONLY INFORMATION NOTED AS AS-BUILT "(AB)" HAS BEEN PROVIDED BY CONTRACTOR

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF CRIM SHORT PLAT HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND CONSTRUCTED IN GENERAL 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."

BY: Hunter A. Freeland DATE: 07/12/2024

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.
2. 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 TYPES.
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 ENGINEER. ALL STRUCTURES & GRADES WILL BE CLEARLY STAKED AND MARKED BY A LICENSED SURVEYOR PRIOR TO CITY INSPECTION.
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 IMMEDIATELY AFTER CONSTRUCTION.
6. 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 WILL 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.
7. 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 STARTING WORK)
8. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
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 SAFETY, SHALL APPLY.
10. PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO THE CITY PRIOR TO THE PRE- CONSTRUCTION MEETING.
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 DEPARTMENT.
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 OF THE PROJECT.
18. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK IN THE PUBLIC RIGHT-OF-WAY.

BASES

1. GRAVEL BASE AND GRAVEL BALLAST USED FOR TRENCH BACKFILL AND ROAD CONSTRUCTION MUST MEET CURRENT WSDOT REGULATIONS & SPECIFICATIONS.
2. BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY.
3. 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 AND CITY PRIOR TO PLACEMENT OF CONCRETE OR PAVEMENT..

PAVEMENTS

1. 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.

WATER MAINS

1. 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. SEPARATION MUST BE MAINTAINED BETWEEN THE NEW WATERMAIN AND THE CITY'S WATER UNTIL PRESSURE AND BACTERIA TESTING ARE APPROVED BY THE CITY IF FERNDALE.
2. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE MOST RECENT VERSION OF WSDOT STANDARD SPECIFICATIONS.
3. ALL BACKFILL SHALL BE IMPORTED GRAVEL AND SHALL CONFORM TO SECTION 2-09 OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND 7-09.3(9).
4. ALL PIPE SHALL HAVE A MINIMUM COVER OF 3.0 FEET AND NOT TO EXCEED 42" COVER WITHOU CITY OF FERNDALE APPROVAL.

EARTHWORK

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.
3. MAXIMUM DENSITY AND OPTIMUM MOISTURE FOR GRANULAR MATERIALS WILL BE DETERMINED USING ASTM D-1557 TEST METHOD.
4. 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.

STORM DRAINAGE

1. 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.
2. 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".
4. 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
5. 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

1. 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 SECTION 5 AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
2. 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 SPECIFICATIONS.
6. ALL SIDE SEWERS SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF FERNDALE STANDARD PLAN SS-6. CONNECT SIDE SEWERS WITH SANITARY TEE.
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.
8. ALL SEWER PIPE WILL BE PRESSURE TESTED AND WILL SCANNED BY MEANS OF A TV CAMERA PRIOR TO ACCEPTANCE BY THE CITY OF FERNDALE.
9. 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.
11. 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.

ABBREVIATIONS

1'/1"	ONE FOOT/ONE INCH
AC	ACRE
AD	ABSOLUTE VALUE OF THE ALGEBRAIC GRADE DIFFERENCE
AF#	AUDITORS FILE NUMBER
APPROX	APPROXIMATE
ASB/AB	AS-BUILT
ASPH	ASPHALT
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
BNDRY	BOUNDARY
BVCS	BEGINNING OF VERTICAL CURVE STATION
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION
C	COMPACT PARKING STALL
CC	CURB CUT
CB	CATCH BASIN
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CNTRL	CONTROL
CO	CLEANOUT
COF	CITY OF FERNDALE
COR	CORNER
CPP	CORRUGATED POLYETHYLENE PIPE
CONC	CONCRETE
CSTC	CRUSHED SURFACING TOP COURSE
CULV	CULVERT
ø	DIAMETER
DEPT	DEPARTMENT
DEMO	DEMOLITION
DI	DUCTILE IRON
DWG	DRAWING
E	EAST
EA	EACH
EL/ELEV	ELEVATION
ENC	REVOCABLE ENCROACHMENT PERMIT
EP/EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVCS	END OF VERTICAL CURVE STATION
EVCE	END OF VERTICAL CURVE ELEVATION
EX/EXIST	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FFE/FF	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FND	FOUND
GND	GROUND
GUTT	GUTTER
HP	HIGH POINT
INV	INVERT
IE/I.E.	INVERT ELEVATION
IRRIG	IRRIGATION
K	LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
LF	LINEAR FOOT
L.S.	LAND SURVEYOR
MAX	MAXIMUM
MIN	MINIMUM
MON	MONUMENT
NIC	NOT IN CONTRACT
N	NORTH
No./#	NUMBER
O.C.	ON CENTER
PC	POINT OF CURVATURE
PCL	PARCEL
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
POB	POINT OF BEGINNING
PP	POWER POLE
PROP	PROPERTY
PT/POT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
PWR	POWER
R	RADIUS
R/C	REBAR WITH CAP
RCP	REINFORCED CONCRETE PIPE
RET	RETAINING
RIM	RIM
R/W	RIGHT-OF-WAY
RPP	REDUCED PRESSURE PRINCIPAL
RR	RAILROAD
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDMH	STORM DRAIN MAN HOLE
SERV	SERVICE
STND/STD	STANDARD
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
ST	STREET
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TEL/TELE	TELEPHONE
TESC	TEMPORARY EROSION & SEDIMENTATION CONTROL
TP	TOP OF PAVEMENT
TS	TOP OF SIDEWALK
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
VC	VERTICAL CURVE
VEG	VEGETATION
W	WEST
WA	WATER
W/IN	WITHIN
WSDOT	WASHINGTON STATE DEPT. OF TRANSPORTATION

APPROVED
07/19/2024
BY: [signature] for kevin
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

SURVEY NOTE
DIGITAL COPIES OF THE CIVIL SITE PLANS WILL BE PROVIDED TO THE CONTRACTOR. ALL BUILDINGS, UTILITY STRUCTURES, AND OTHER COMPONENTS NECESSARY FOR CONSTRUCTION SHALL BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION.

2520 Elm Street, Suite 1
Bellingham, WA 98225
t: 360.650.1408
f: 360.650.1401
FREELAND & ASSOCIATES

REV:	DATE:	DESCRIPTION:	BY:

CLIENT: HUNTER CRIM
5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

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

PROJECT LOCATION: CRIM SHORT PLAT
5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

DRAWING #: 21060ABL2.DWG
DRAWN BY: TF
CHECKED BY:
DESIGNED BY: TF

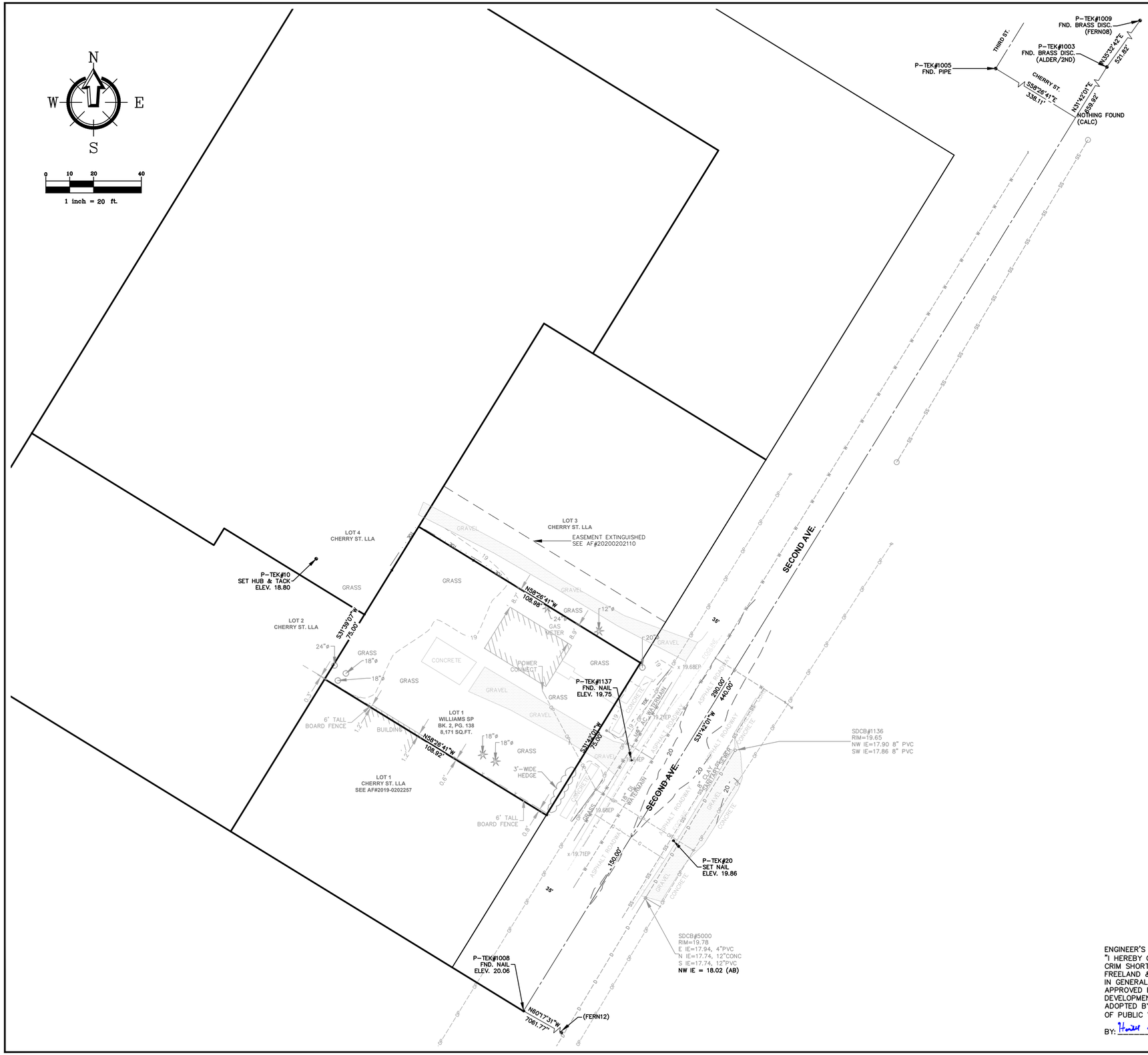
SHEET CONTENTS: COVER SHEET

HUNTER A. FREELAND III
STATE OF WASHINGTON
28519
REGISTERED PROFESSIONAL ENGINEER
07-12-2024

JOB #: 21060
DATE: 07-12-2024
SCALE: HORIZ: NA VERT: NA
SHEET: C1

DVLP2023-18 LDP23016 CRIM SHORT PLAT

00754.001 07/19/24 RH



APPROVED
07/19/2024
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF CRIM SHORT PLAT HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND CONSTRUCTED IN GENERAL 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."

BY: Harold A. Freeland DATE: 07/12/2024

AS-BUILT DRAWING

AS-BUILT NOTE:
ONLY INFORMATION NOTED AS AS-BUILT "(AB)" HAS BEEN PROVIDED BY CONTRACTOR

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

REV:	DATE:	DESCRIPTION:	BY:

CLIENT:
HUNTER CRIM
5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

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

PROJECT LOCATION:
CRIM SHORT PLAT
5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

DRAWN BY: TF
CHECKED BY: TF
DRAWING #: 21060AB2.DWG
DESIGNED BY: TF

SHEET CONTENTS:
EXISTING CONDITIONS

HAROLD A. FREELAND III
STATE OF WASHINGTON
28519
REGISTERED
PROFESSIONAL ENGINEER
07.12.2024

JOB #: 21060
DATE: 07-12-2024
SCALE: HORIZ: 1"=20' VERT: NA
SHEET: C2

00754.002 07/19/24 RH

00754.003 07/19/24 RH

ENGINEER'S CERTIFICATION:
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BY: Harvill A. Freeland DATE: 07/12/2024

AS-BUILT DRAWING

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N
W E
S

0 5 10 20
1 inch = 10 ft.

LOT 4
CHERRY ST. LLA

LOT 3
CHERRY ST. LLA

LOT 2
CHERRY ST. LLA

LOT 1
CHERRY ST. LLA
SEE AF#2019-0202257

EASEMENT EXTINGUISHED
SEE AF#20200202110

PROPOSED DUPLEX
FFE=21.00

#5573 2ND. AVE.
HOUSE

PARCEL A
5,237 SQ.FT.

PARCEL B
2,935 SQ.FT.

LOT 1
WILLIAMS SP
BK. 2, PG. 138
8,171 SQ.FT.

S31°39'07"W
75.00'

N58°26'41"W
108.98'

S31°42'01"W
440.00'

S31°42'01"W
75.00'

S31°42'01"W
290.00'

S31°42'01"W
150.00'

SECOND AVE.

6' TALL
BOARD FENCE

BUILDING

GRASS
GRAVEL
CONCRETE
ASPHALT ROADWAY
GAS METER
POWER CONNECT
FOGLINE
CENTERLINE
4" A.C. WATERMAIN
8" CLAY SANITARY SEWER
18" DI WATERMAIN
SDCB#1136
RIM=19.65
NW IE=17.90 8" PVC
SW IE=17.86 8" PVC
SDCB#5000
RIM=19.78
E IE=17.94, 4"PVC
N IE=17.74, 12"CONC
S IE=17.74, 12"PVC
NW IE = 18.02 (AB)
x 19.68EP
x 19.71EP
x 19.64EP
24"ø
18"ø
12"ø
20"ø
6" WIDE HEDGE

SF
VEG
PS
MU
CE
IP
IP
IP

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
PC	WSDOE BMP C123 PLASTIC COVERING
OP	WSDOE BMP C209 OUTLET PROTECTION
CD	WSDOE BMP C207 CHECK DAMS
5.13	WSDOE BMP T5.13 SOIL AMENDMENT
IP	WSDOE BMP C220 STORM DRAIN INLET PROTECTION
SF	WSDOE BMP C233 SILT FENCE
CB	WSDOT COMPOST BERM
CL CL	WSDOE BMP C103 OR BMP C104 CLEARING LIMITS
	EXISTING DRAINAGE FLOW DIRECTION ARROW (SHEET FLOW OR SHALLOW CHANNEL FLOW)

APPROVED
07/19/2024
BY: CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

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Bellingham, WA 98225
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FREELAND & ASSOCIATES

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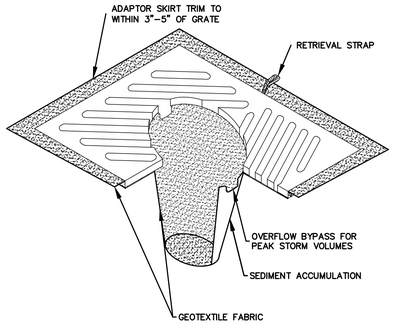
FERNDALE, WASHINGTON 98248

DRAWING #: 21060AB2.DWG
DRAWN BY: TF
CHECKED BY: TF
DESIGNED BY: TF

SHEET CONTENTS:
TEMPORARY EROSION AND SEDIMENTATON CONTROL PLAN

HARVILL A. FREELAND III
STATE OF WASHINGTON
28519
REGISTERED PROFESSIONAL ENGINEER
07.12.2024

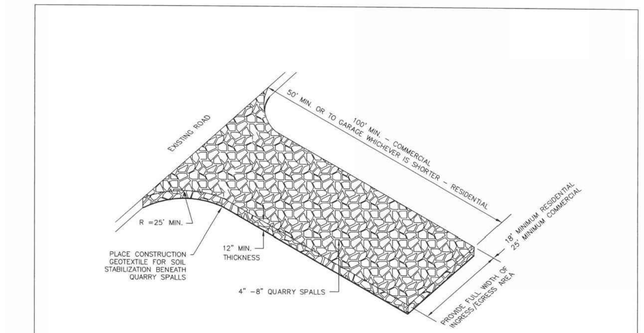
JOB #: 21060
DATE: 07-12-2024
SCALE: HORIZ: 1"=10' VERT: NA
SHEET: C3



NOTES:

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.

A INLET PROTECTION
nts



APPROVED — Public Works Director — 8/11/17 Date

NOVEMBER 29, 2016
TEMPORARY CONSTRUCTION ENTRANCE
STANDARD DETAIL ST–25
NOT TO SCALE

B TEMPORARY CONSTRUCTION ENTRANCE/EXIT
nts

AS-BUILT DRAWING

AS–BUILT NOTE:
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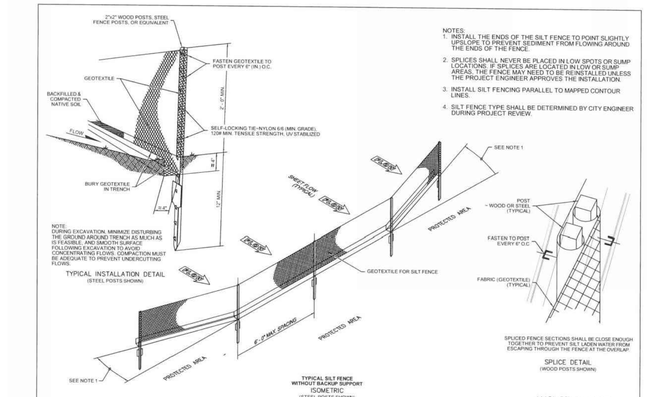

APPROVED — Public Works Director — 8/11/17 Date

AUGUST 4, 2017
SILT FENCE
STANDARD DETAIL ST–27
NOT TO SCALE

C SILT FENCE
nts

STORMWATER POLLUTION PREVENTION PLAN

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. Tree protection fencing shall be implemented where construction is to take place within the Critical Root Zone (CRZ). Which is typically identified as 1-foot radius for every 1-inch of tree Diameter at Breast Height (DBH).

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

Element #2: Establish Construction Access

One construction entrance / exit (100 LF) is necessary for this project. Traffic shall be routed in and out of the site onto Nielsen Avenue. Replace or restore as necessary and maintain for the duration of the project. Additional measures such as wash pads or shaker plates may be required to insure that all paved areas are kept clean for the duration of the project. Signage will be posted during construction to facilitate this traffic pattern. See TESC Plan for location. 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.

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

Element #4: Install Sediment Controls

A portion of the native topsoil, and natural and existing vegetation will be retained during construction. clearing/grading area(s) are shown on the TESC Plan. Element #1 of this plan, including implementing Preserving Natural Vegetation, will be practiced or applicable for construction and is critical given the proximity to the offsite critical areas. 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 filter 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
- BMP C208: Triangular Silt Dike
- BMP C235: Wattles

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 be taken.

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

Drainage channels are not proposed as a part of this project.

Outlets of all conveyance systems shall be protected and stabilized to prevent erosion of outlets. It shall be constructed and stabilized to prevent erosion from the expected flow velocity of a 100-year, 24-hour frequency storm.

Washington State Department of Ecology BMPs considered for Element #8 include:
- BMP C202: Channel Lining
- BMP C209: Outlet Protection

Element #9: Control Pollutants

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. Provide cover, containment, and protection from vandalism for all chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment. On-site fueling tanks must include secondary containment. 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:

1-800-OILS-911 (1-800-645-7911).

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

Element #10: Control De-Watering

No de-watering is proposed as part 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 not pollute state waters,
- On-site treatment using chemical treatment or other suitable treatment technologies,
- Sanitary sewer discharge with local sewer district approval, or
- Use of a sedimentation bag with outfall to a ditch or swale for small volumes of localized dewatering

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

Construction

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. Re-vegetation 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.

Seasonal Work Limitations

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

CESCL contact information shall be provided to the City of Ferndale at or before pre-construcion. 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.

Element #13: Protect Low Impact Development

No Low Impact Development BMPs are proposed for this project.

APPROVED
07/19/2024
BY
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

E STORMWATER POLLUTION PREVENTION PLAN
nts

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

REV:	DATE:	DESCRIPTION:	BY:

CLIENT:
HUNTER CRIM
5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

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

PROJECT LOCATION:
CRIM SHORT PLAT
5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

DRAWING #: 21060A82.DWG
DRAWN BY: TF
CHECKED BY: TF
DESIGNED BY: TF

SHEET CONTENTS:
TEMPORARY EROSION AND SEDIMENTATION CONTROL DETAILS

HAROLD A. FREELAND III — STATE OF WASHINGTON — 28519 — REGISTERED PROFESSIONAL ENGINEER — 07-12-2024

JOB #: 21060
DATE: 07–12–2024
SCALE: HORIZ: NA VERT: NA
SHEET: C4

00754.004 07/19/24 RH

00754.005 07/19/24 RH

N
W E
S
0 5 10 20
1 inch = 10 ft.

LOT 4
CHERRY ST. LLA

LOT 3
CHERRY ST. LLA

LOT 1
CHERRY ST, LLA
SEE AF#2019-0202257

LLA

EASEMENT EXTINGUISHED
SEE AF#20200202110

SSMH#1050
RIM=19.63
NE IE=14.74, 8"CONC
SW IE=14.81, 8"CONC

SECOND AVE.

PROPOSED DUPLEX
FFE=21.00

#5573 2ND AVE.
HOUSE

PARCEL A
5,237 SQ.FT.

PARCEL B
2,935 SQ.FT.

LOT 1
WILLIAMS SP
BK. 2, PG. 139
8,171 SQ.FT.

NEW 4" PVC CONNECTING TO THE BASIN AND CONNECTING THE EXISTING ROOF DRAIN (FUTURE)

INLET #4
RIM = 20.50
SE IE = 18.54

80 L.F., 8" DI SD @ 0.5% (FUTURE)

GRADE BREAK

INLET #3
RIM = 19.96 (AB)
NW IE = 18.45 (AB)
SW IE = 18.45 (AB)

20 L.F. 8" DI SD
@ 0.55% (AB)

CATCH BASIN #2
RIM = 20.36 (AB)
SE IE = 18.31 (AB)
NE IE = 18.34 (AB)

27 L.F. 8" DI SD @ 0.41% (AB)

35 L.F. 8" DI SD @ 0.41% (AB)

CATCH BASIN #1
RIM = 19.80 (AB)
SE IE = 18.16 (AB)
NW IE = 18.20 (AB)

TP 20.80
TP 20.80
TP 20.80
TP 21.00
TP 20.60
TP 21.00
TP 20.60

6" TALL BOARD FENCE
BUILDING
GRASS
GRAVEL
CONCRETE
ASPHALT ROADWAY
GAS METER
BSBL
4" AC WATERMAIN
16" DI WATERMAIN
8" SANITARY SEWER
WIDE HEDGE

E C8 START PROPOSED CURB TYPICAL

END PROPOSED CURB TYPICAL

SDCB#1136
RIM=19.65
NW IE=17.90 8" PVC
SW IE=17.86 8" PVC

END PROPOSED DRIVEWAY CURB

2" ANGLE GRINDS

PROPOSED DRIVEWAY D C8

START PROPOSED DRIVEWAY CURB E C8

ALL CLEAN CUT LINES AND TRENCHES WILL BE BACKFILLED AND REPLACED PER CITY DETAIL R-11A.
CDF SHALL BE USED AT ALL SHALLOW CROSSINGS. F C7

40" CUT FROM FACE OF GUTTER CLEAN CUT ASPHALT LINE. REPLACE WITH FULL R4 SECTION OF GRAVEL AND ASPHALT AS SHOWN ON THE R-4 CITY DETAIL. B C8

SDCB#5000
RIM=19.78
E IE=17.94, 4"PVC
N IE=17.74, 12"CONC
S IE=17.74, 12"PVC
NW IE = 18.02 (AB)

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF CRIM SHORT PLAT HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND CONSTRUCTED IN GENERAL 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."
BY: Harold A. Freeland DATE: 07/12/2024

AS-BUILT DRAWING
AS-BUILT NOTE:
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SURVEYOR'S CERTIFICATION:
"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTS, AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING FIELD CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE: 7.12.2024
BY:

APPROVED
07/19/2024
BY: for Kevin Berns
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

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

REV:	DATE:	DESCRIPTION:	BY:

CLIENT:
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5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

CALL BEFORE YOU DIG
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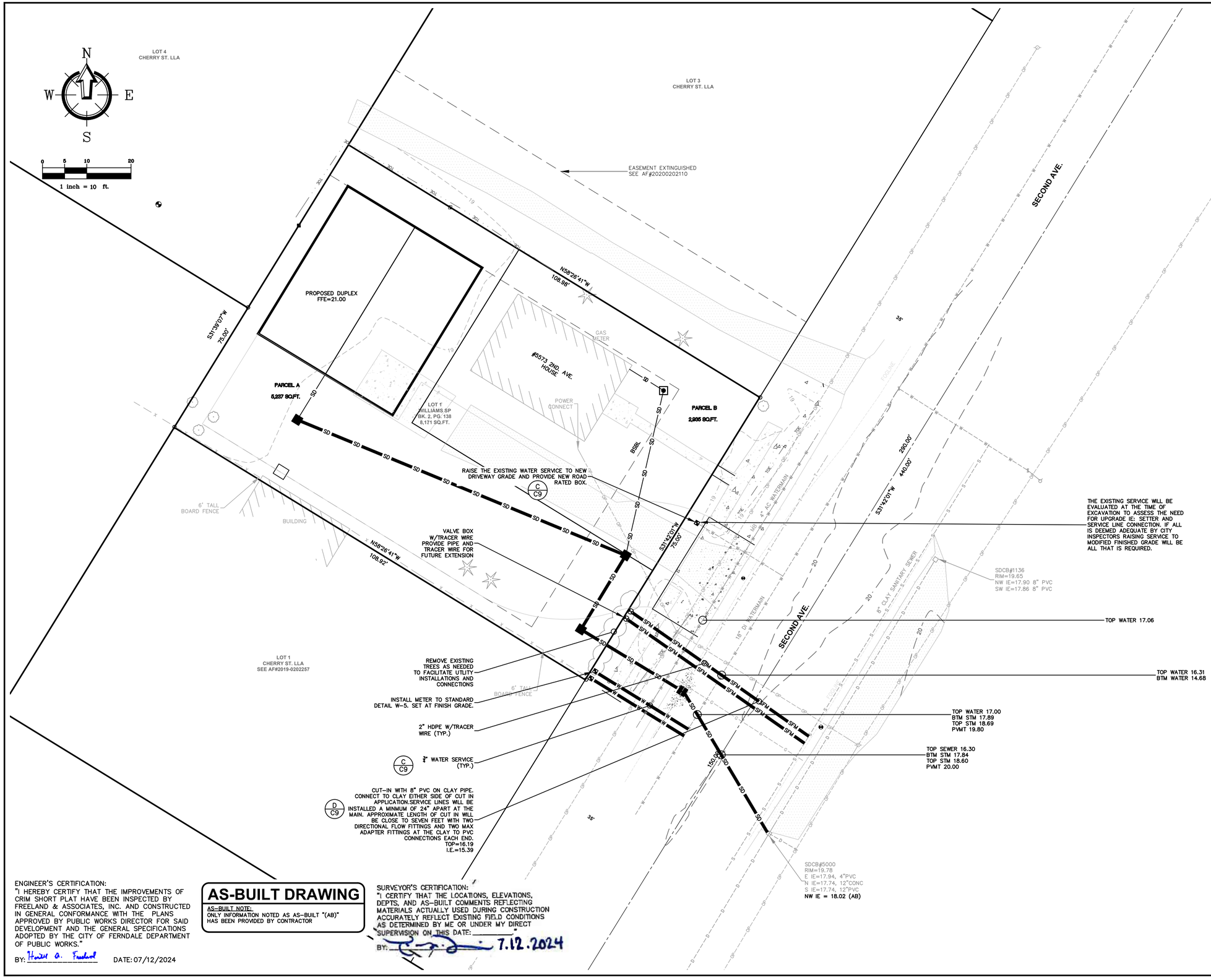
5573 SECOND AVENUE
FERNDALE, WASHINGTON 98248

DRAWING #: 21060AB2.DWG
DRAWN BY: TF
CHECKED BY: TF
DESIGNED BY: TF

SHEET CONTENTS:
DRAINAGE PLAN

HAROLD A. FREELAND III
STATE OF WASHINGTON
28519
REGISTERED PROFESSIONAL ENGINEER
07.12.2024

JOB #: 21060
DATE: 07-12-2024
SCALE: HORIZ: 1"=10' VERT: NA
SHEET: C5



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BY: Harold A. Freeland DATE: 07/12/2024

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BY: _____ 7.12.2024

APPROVED
07/19/2024
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

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Bellingham, WA 98225
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00754.006 07/19/24 RH

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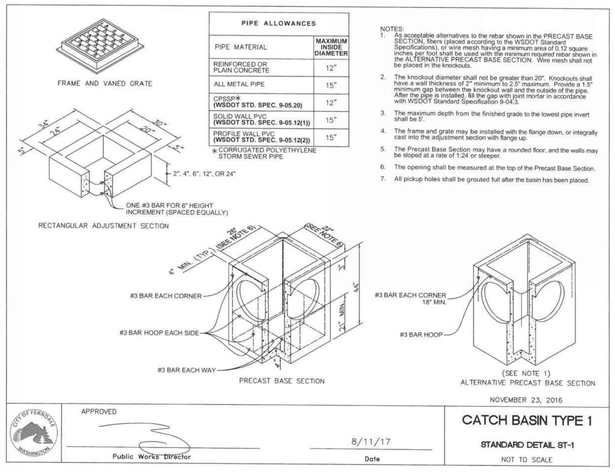
SHEET CONTENTS:
UTILITY PLAN

HAROLD A. FREELAND III
STATE OF WASHINGTON
28519
REGISTERED
PROFESSIONAL ENGINEER
07.12.2024

JOB #: 21060
DATE: 07-12-2024
SCALE: HORIZ: 1"=10' VERT: NA
SHEET: C6



A CATCH BASIN TYPE 1
nts

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

Design and Installation Specifications

- Vacuum slurry and cuttings during cutting and surfacing operations.
- 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.

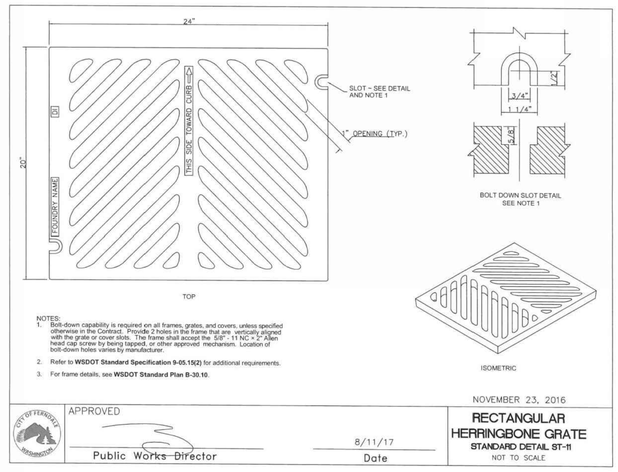
Maintenance Standards

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.

B SAWCUTTING
nts

AS-BUILT DRAWING

AS-BUILT NOTE:
ONLY INFORMATION NOTED AS AS-BUILT "(AB)" HAS BEEN PROVIDED BY CONTRACTOR



C RECTANGULAR HERRINGBONE GRATE
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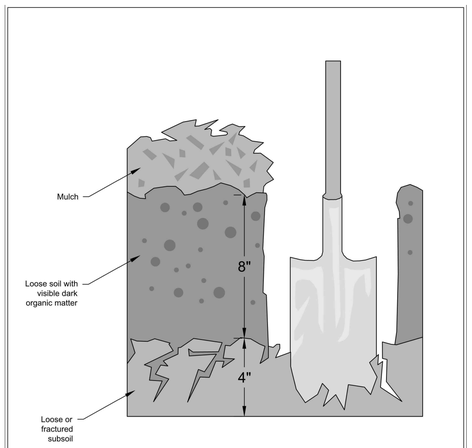

Reprinted from Guidelines and Resources For Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington, 2010, Washington Organic Recycling Council

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Figure V-5.3.3
Planting Bed Cross-Section
Revised January 2016

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 PERCENT 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:

1. 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.
2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL
3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
   a. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP T7.30), 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 RATION BELOW 25:1. THE CARBON TO NITROGEN RATION MAY BE AS HIGH 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
   b. 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 CONDUCIVE 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:

1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
2. 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.
3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT 'PRE-APPROVED' RATE OR AT A CUSTOM CALCULATED RATE.
4. 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.

D SOIL AMENDMENTS (BMP T5.13)
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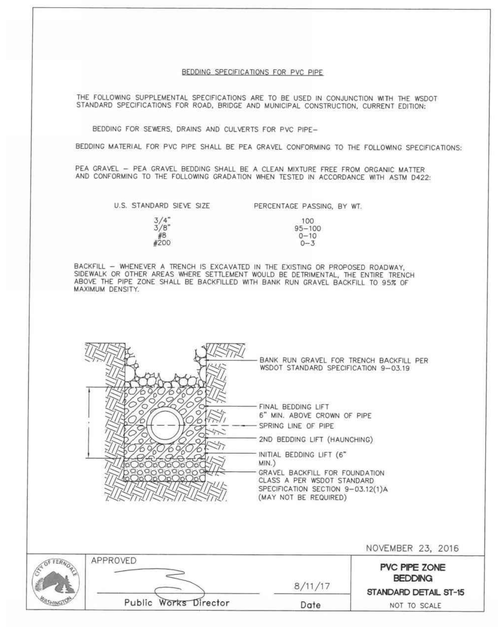

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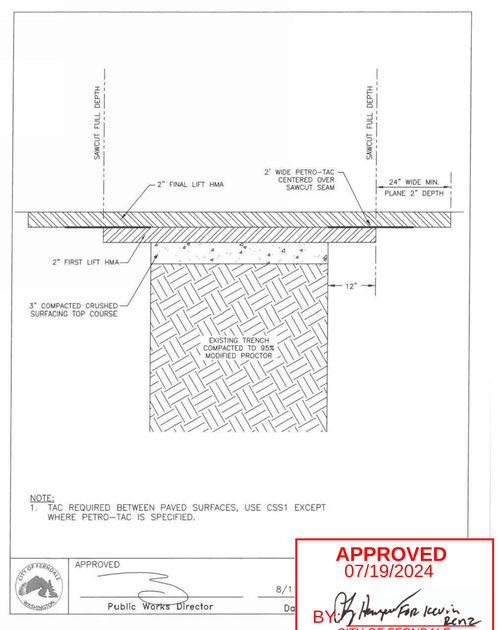

F ROAD RESTORATION REPAIR
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28519
REGISTERED PROFESSIONAL ENGINEER
07-12-2024

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DATE: 07-12-2024
SCALE: HORIZ: NA VERT: NA
SHEET: C7

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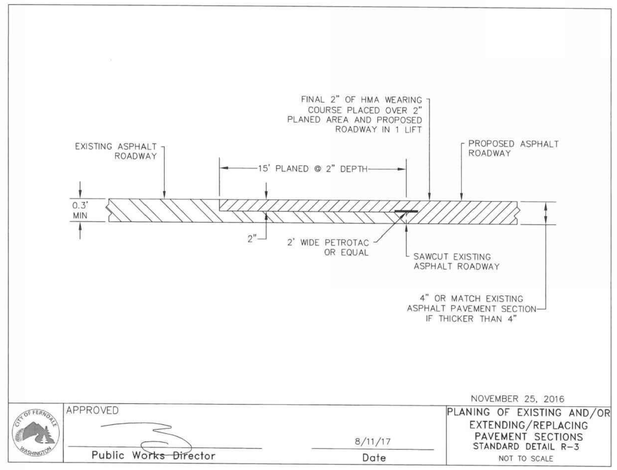

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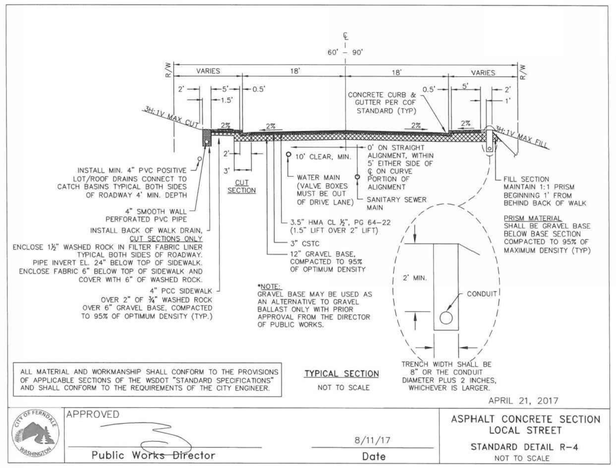

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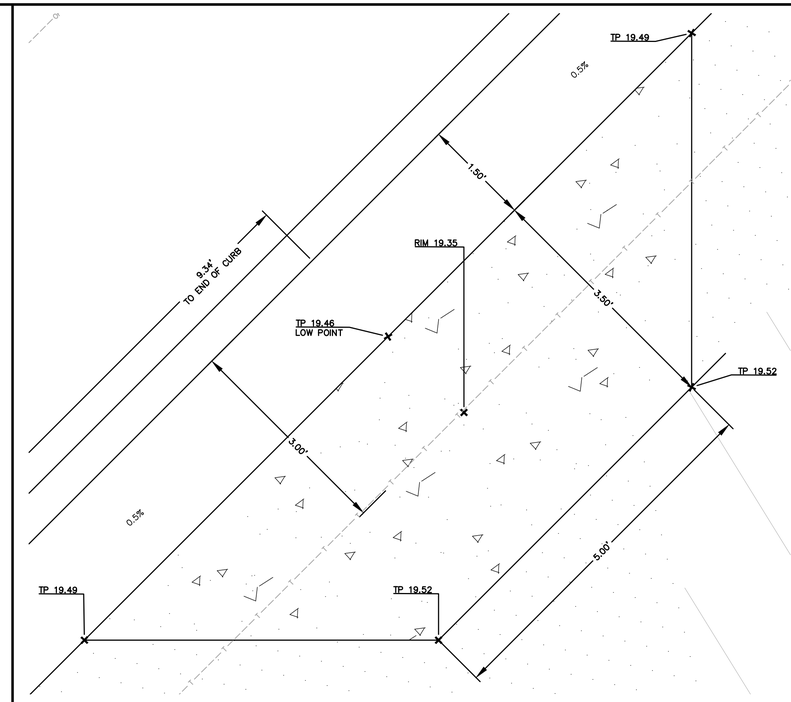

C CATCH BASIN DETAIL
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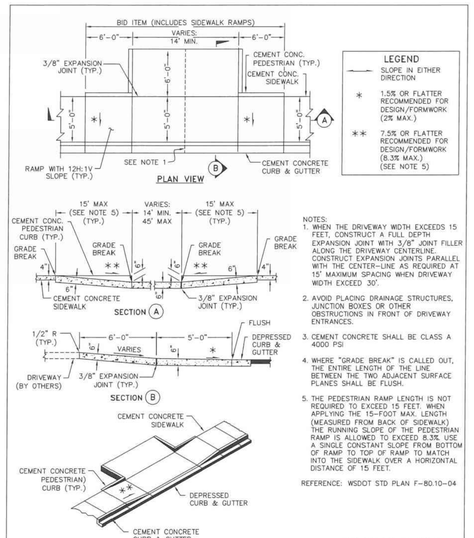

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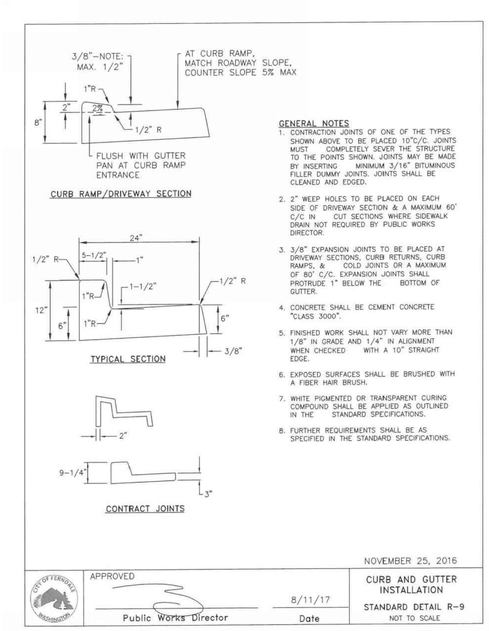

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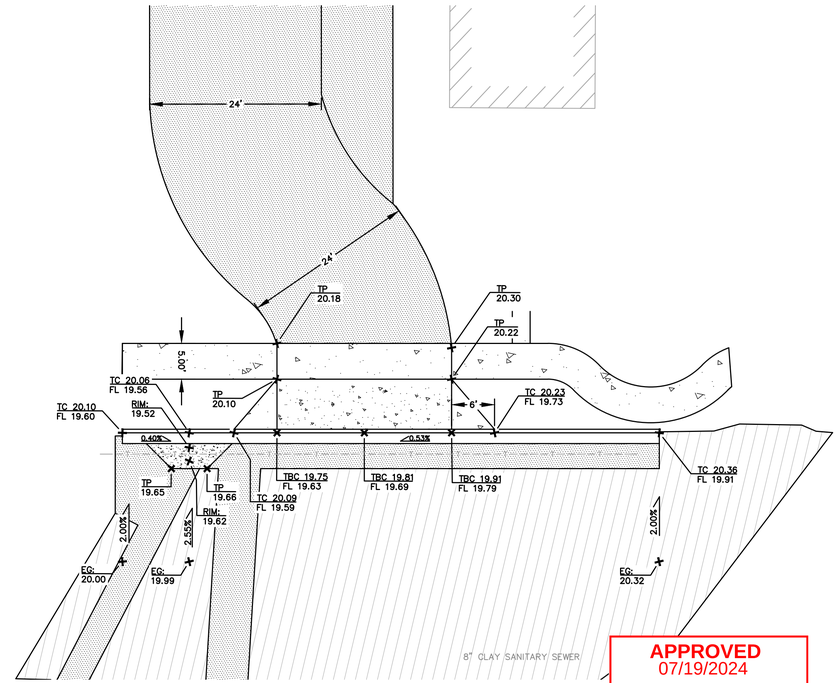

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07/19/2024
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F DRIVEWAY ENTRANCE DETAIL
1"=10'

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07-12-2024

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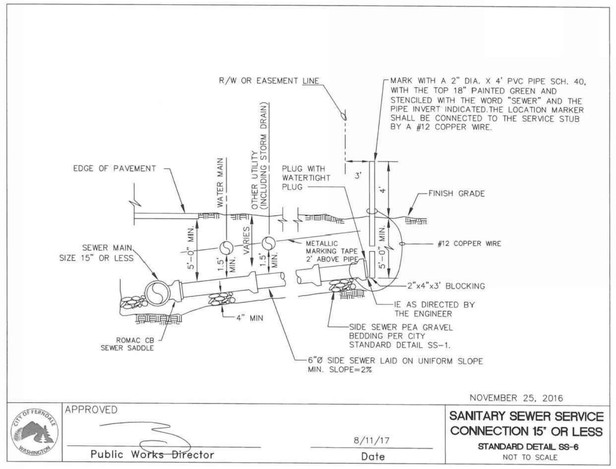

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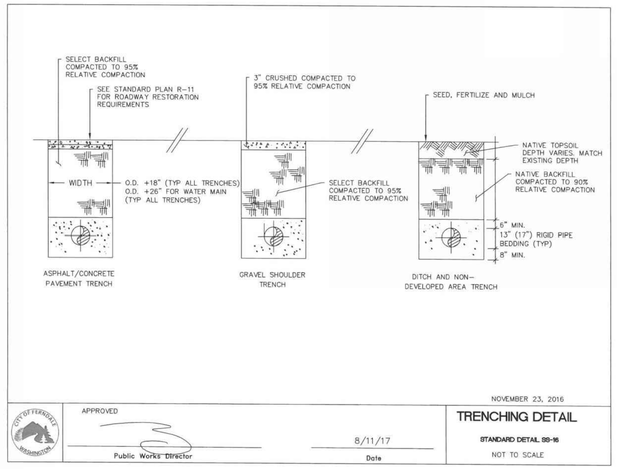

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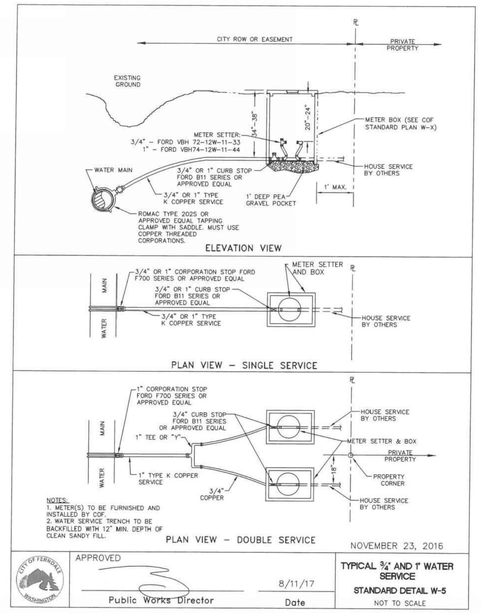

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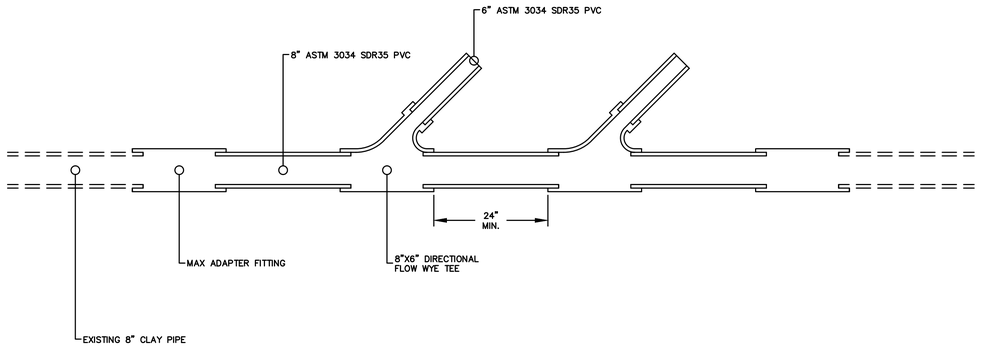

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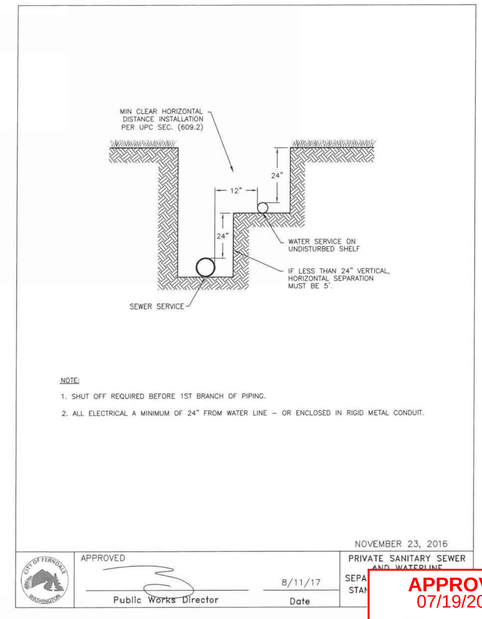

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