FERNDALE HIGH SCHOOL

CIVIL SITE PLAN

SITUATE IN A PORTION OF THE NW QUARTER & SW QUARTER OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 2 EAST, W.M., CITY OF FERNDALE, WHATCOM COUNTY, 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/SHINER
- = 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, DUAL (SEE ELECTRICAL)
- = PROPOSED LIGHT POLE, SINGLE (SEE ELECTRICAL)
- = 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 UTILITES (UNKNOWN)
- = EXISTING UNDERGROUND TV CABLE
- = EXISTING GAS MAIN
- = PROPOSED GAS LINE
- = EXISTING WATER LINE
- = EXISTING FIRE MAIN
- = PROPOSED WATER LINE
- = PROPOSED IRRIGATION LINE
- = EXISTING 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 (LIGHT DUTY)
- = PROPOSED ASPHALT PAVEMENT (HEAVY DUTY)
- = PROPOSED CONCRETE
- = PROPOSED GRAVEL SURFACING
- = PROPOSED PHASING WORK LIMITS

CITY OF FERNDALE 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 AND GRADES WILL BE CLEARLY STAKED AND MARKED 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 MONDAY THROUGH SATURDAY.
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 INSPECTONS 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. ALL EXISTING AND NEW SITE IMPROVEMENTS MUST BE ACCURATELY DOCUMENTED PRIOR TO FINAL PROJECT ACCEPTANCE.
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.
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.
19. POT HOLING 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 AND/OR ADDITIONAL COSTS ARE REQUIRED BECAUSE POTHOLING WAS NOT DONE PRIOR TO DESIGN.

BASES

1. GRAVEL BASE AND GRAVEL BALLAST USED FOR TRENCH BACKFILL AND ROAD CONSTRUCTION MUST MEET CURRENT WSDOT REGULATIONS AND 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.

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 WRITING 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.
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.
4. ALL PIPES SHALL HAVE A MINIMUM COVER OF 3.0 FEET AND A MAXIMUM OF 3.5 FEET UNLESS OTHERWISE APPROVED.

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 AUGNMENT, 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).

CITY OF FERNDALE NOTES

1. APPLICANT/OWNER WILL PROVIDE ANYTIME ACCESS TO BOTH THE CITY AND FIRE DISTRICT AS NEEDED. KEY OR CODE ACCESS TO THE SATISFACTION OF BOTH CITY AND FIRE DISTRICT TO PROVIDE SAID ACCESS WILL BE REQUIRED PRIOR TO CITY FINAL ACCEPTANCE OF THE PROJECT.
2. ALL PROPOSED LOCKABLE GATE LOCATIONS CONCEALING CITY INFRASTRUCTURE, FIRE DEPARTMENT CONNECTION, AND BUILDING ACCESS MUST PROVIDE 24 HR ACCESS VIA CODE OR ELECTRONIC OPENING DEVICES AS REQUIRED BY THE CITY OF FERNDALE AND FIRE DISTRICT #7.
3. ALL STRUCTURES, STORM FACILITIES, AND UTILITY CONNECTION POINTS WILL BE LOCATED AND MARKED APPROPRIATELY BY A LICENSED SURVEYOR PRIOR TO START OF CONSTRUCTION AND/OR CITY INSPECTION.
4. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
5. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES AND NEW UPGRADES NEEDED TO COMPLY WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE BY THE CITY.

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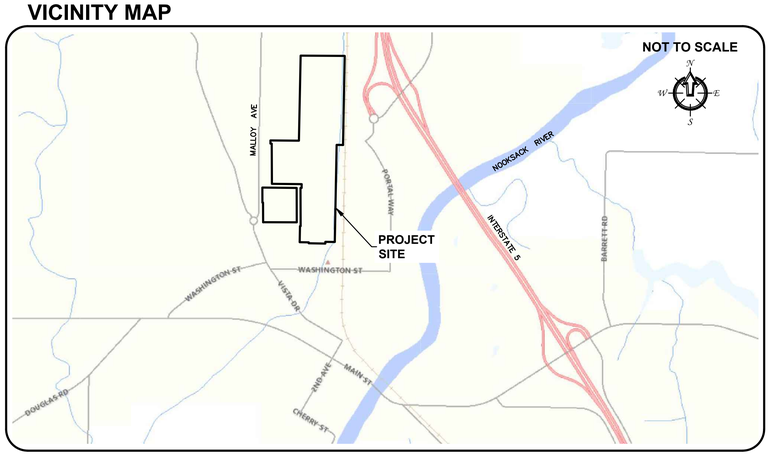
ABBREVIATIONS

1'/1"	ONE FOOT/ONE INCH
AD	ABSOLUTE VALUE OF THE ALGEBRAIC GRADE DIFFERENCE
AF#	AUDITORS FILE NUMBER
ALUM	ALUMINUM
APPROX	APPROXIMATE
ASB/AB	AS-BUILT
ASPH	ASPHALT
BLDG	BUILDING
BSMT	BASEMENT
BVCS	BEGINNING OF VERTICAL CURVE STATION
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION
C	COMPACT PARKING STALL
CB	CATCH BASIN
CDF	CONTROLLED DENSITY FILL
CESCL	CERTIFIED EROSION & SEDIMENTATION CONTROL LEAD
CJ	CONTROL JOINT
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CNTRL	CONTROL
CO	CLEANOUT
COR	CORNER
CPLG	COUPLING
CPP	CORRUGATED POLYETHYLENE PIPE
CONC	CONCRETE
CULV	CULVERT
ø	DIAMETER
DECID	DECIDUOUS
DEMO	DEMOLITION
DF	DRAINFIELD
DI	DUCTILE IRON
DWGS	DRAWINGS
EA	EACH
EL/ELEV	ELEVATION
EP/EOP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
ESMT	EASEMENT
EVCE	END OF VERTICAL CURVE ELEVATION
EX/EXIST	EXISTING
EXP	EXPANSION JOINT/COLD JOINT
FDC	FIRE DEPARTMENT CONNECTION
FFE/FF	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FM	FORCE MAIN
FND	FOUND
GAL	GALLON
GND	GROUND
GUTT	GUTTER
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HWR	HOT WATER RETURN
HWS	HOT WATER SERVICE
INV	INVERT
IE	INVERT ELEVATION
IRRIG	IRRIGATION
K	LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
LF	LINEAR FOOT
MJ	MECHANICAL JOINT
MAX	MAXIMUM
MIN	MINIMUM
MES	MERIDIAN ELEMENTARY SCHOOL
MON	MONUMENT
NIC	NOT IN CONTRACT
No./#	NUMBER
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCL	PARCEL
PERF	PERFORATED
PG	PERFORMANCE GRADE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
P.O.B.	POINT OF BEGINNING
PROP	PROPERTY --OR-- PROPOSED
PT/POT	POINT OF TANGENCY
PRC	POINT OF RETURN CURVATURE
PRT	POWER TRANSFORMER
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
R/RAD	RADIUS
R/C	REBAR WITH CAP
REQ'D	REQUIRED
RIM	RIM
RCP	REINFORCED CONCRETE PIPE
RET	RETAINING
RES	RESIDENCE
RJ	RESTRAINED JOINT
ROW	RIGHT OF WAY
RPP	REDUCED PRESSURE PRINCIPAL
RR	RAILROAD
SAN	SANITARY
SCH	SCHEDULE
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDMH	STORM DRAIN MAN HOLE
SERV	SERVICE
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
ST	STREET
TBM/T.B.M.	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
W/	WITH
W/IN	WITHIN
W	WATER

VICINITY MAP



ARCHAEOLOGICAL FINDINGS

SHOULD ARCHAEOLOGICAL MATERIALS (e.g. SHELL MIDDEN, FAUNAL REMAINS, STONE TOOLS) OR HUMAN REMAINS BE OBSERVED DURING THE SCOPE OF OPERATIONS AS APPROVED, ALL WORK IN THE VICINITY SHALL STOP, AND THE AREA SHALL BE SECURED. THE STATE OFFICE OF ARCHAEOLOGY AND HISTORIC PRESERVATION (360-586-3065) AND THE LUMMI NATION TRIBAL HISTORIC PRESERVATION OFFICE (360-384-2298) SHALL BE CONTACTED IMMEDIATELY IN ORDER TO HELP ASSESS THE SITUATION AND DETERMINE HOW TO PRESERVE THE RESOURCE(S). COMPLIANCE WITH ALL APPLICABLE LAWS PERTAINING TO ARCHAEOLOGICAL RESOURCES IS REQUIRED.

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.

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

PROJECT CONTACTS

OWNER/APPLICANT
FERNDALE SCHOOL DISTRICT 502
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ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

RECEIVED
07/30/2025
BY: Patti Gearhart
20032-LDP

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

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
425.259.3161 (T)
1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK BRATT
STATE OF WASHINGTON
163431
REGISTERED
PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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2. The Architect's Instrument of Professional Service.
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PROJECT NUMBER: 2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: for rcvw in Rcnz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE: CIVIL COVER SHEET

DRAWING NUMBER: C1.01

00760.001 07/31/25 RH

SURVEY NOTES

1) THIS TOPOGRAPHIC SURVEY WAS PERFORMED AND PREPARED IN ACCORDANCE WITH WAC 332-130-145.

2) DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION IN JUNE THROUGH SEPTEMBER 2019.

3) EQUIPMENT USED: THEOMAT 00'01.5" EDM: ± 2 PPM, ± 3 MM; TOPCON GR3 GPS BASE & ROVER

4) HORIZONTAL DATUM: NAD 83/91, WASHINGTON STATE PLANE NORTH ZONE (GRID) PER CITY OF FERNDALE CONTROL NETWORK (FERN4, FERN5, FERN6, FERN7 & FERN8) SEE CONTROL TABLE FOR ADDITIONAL PROJECT CONTROL

5) VERTICAL DATUM: NGVD29 PER CITY OF FERNDALE CONTROL NETWORK (FERN4, FERN5, FERN6, FERN7 & FERN8) SEE CONTROL TABLE FOR ADDITIONAL PROJECT VERTICAL CONTROL

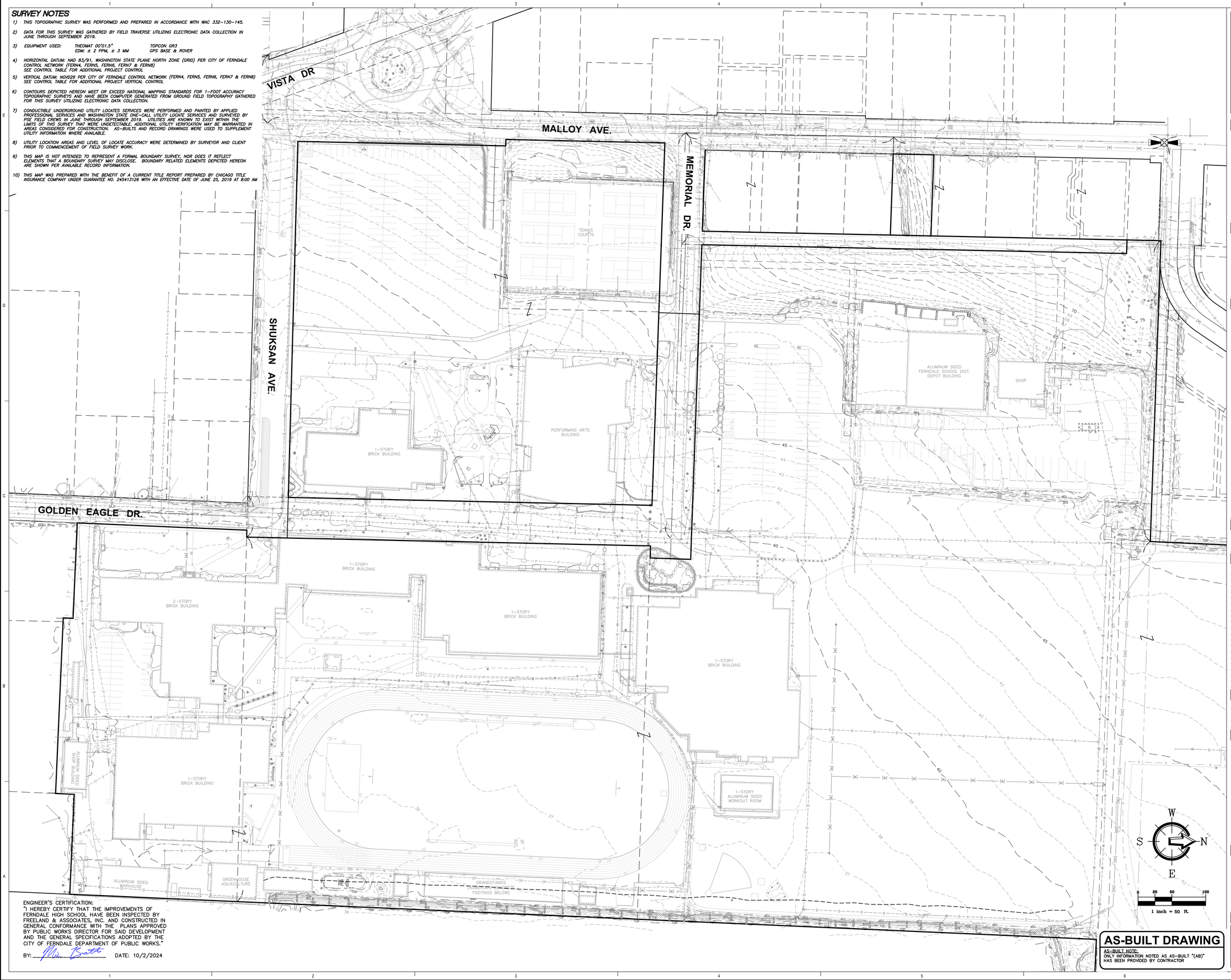
6) CONTOURS DEPICTED HEREON MEET OR EXCEED NATIONAL MAPPING STANDARDS FOR 1-FOOT ACCURACY TOPOGRAPHIC SURVEYS AND HAVE BEEN COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.

7) CONDUCTIBLE UNDERGROUND UTILITY LOCATES SERVICES WERE PERFORMED AND PAINTED BY APPLIED PROFESSIONAL SERVICES AND WASHINGTON STATE ONE-CALL UTILITY LOCATE SERVICES AND SURVEYED BY PSE FIELD CREWS IN JUNE THROUGH SEPTEMBER 2019. UTILITIES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THIS SURVEY THAT WERE UNDETECTABLE. ADDITIONAL UTILITY VERIFICATION MAY BE WARRANTED IN AREAS CONSIDERED FOR CONSTRUCTION. AS-BUILTS AND RECORD DRAWINGS WERE USED TO SUPPLEMENT UTILITY INFORMATION WHERE AVAILABLE.

8) UTILITY LOCATION AREAS AND LEVEL OF LOCATE ACCURACY WERE DETERMINED BY SURVEYOR AND CLIENT PRIOR TO COMMENCEMENT OF FIELD SURVEY WORK.

9) THIS MAP IS NOT INTENDED TO REPRESENT A FORMAL BOUNDARY SURVEY, NOR DOES IT REFLECT ELEMENTS THAT A BOUNDARY SURVEY MAY DISCLOSE. BOUNDARY RELATED ELEMENTS DEPICTED HEREON ARE SHOWN PER AVAILABLE RECORD INFORMATION.

10) THIS MAP WAS PREPARED WITH THE BENEFIT OF A CURRENT TITLE REPORT PREPARED BY CHICAGO TITLE INSURANCE COMPANY UNDER GUARANTEE NO. 245413126 WITH AN EFFECTIVE DATE OF JUNE 25, 2019 AT 8:00 AM



ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

AS-BUILT DRAWING

AS-BUILT NOTE:
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CONSULTANT:

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Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK BRATT
STATE OF WASHINGTON
16345
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

EXISTING CONDITIONS

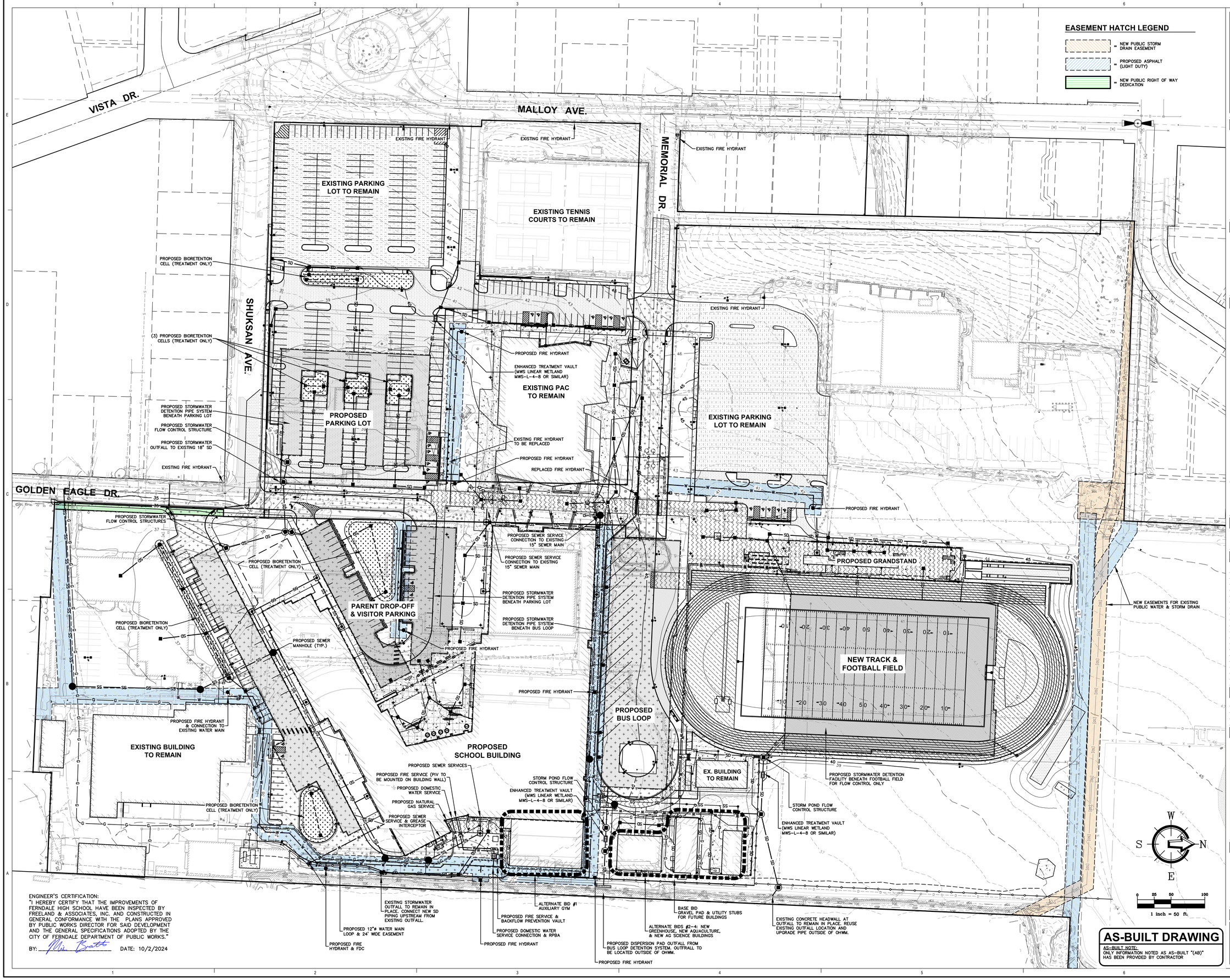
DRAWING NUMBER:

C1.02

W S N E

0 25 50 100
1 inch = 50 ft.

00760.002 07/31/25 RH



ENGINEER'S CERTIFICATION:
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BY: _____ DATE: 10/2/2024

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MICHAEL DIRK HEATH
STATE OF WASHINGTON
16345
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

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FOR
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RECORD DRAWING
10/2/2024

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2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ For Review
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

OVERALL SITE PLAN

DRAWING NUMBER:

C1.03

00760.003 07/31/25 RH

VISTA DR.

MALLOY AVE.

MEMORIAL DR.

SHUKSAN AVE.

GOLDEN EAGLE DR.

CONNECT NEW SEWER SERVICE TO PUBLIC MAIN

EXISTING OLD MAIN BUILDING TO BE RETAINED IN PHASE 1. MAINTAIN OR REPLACE EXISTING UTILITY SERVICES AS NEEDED FOR CONTINUED OPERATION.

CONNECT TO PUBLIC WATER MAIN FOR NEW PUBLIC WATER LOOP AROUND BUILDING. CONNECT NEW SEWER SERVICE TO PUBLIC MAIN.

EXISTING ACADEMIC BUILDING TO BE RETAINED IN PHASE 1. MAINTAIN OR REPLACE EXISTING UTILITY SERVICES AS NEEDED FOR CONTINUED OPERATION.

EXISTING GYMNASIUM BUILDING TO BE RETAINED IN PHASE 1. MAINTAIN OR REPLACE EXISTING UTILITY SERVICES AS NEEDED FOR CONTINUED OPERATION.

INSTALL STORMWATER MANAGEMENT FACILITY BENEATH FUTURE FOOTBALL FIELD

LOCATE WATER SERVICE TO EXISTING GYM BUILDING. IF POSSIBLE, RETAIN EXISTING METER & SERVICE TO EXISTING GYM BUILDING DEMO IN PHASE 2.

BUS LOOP DETENTION FACILITY TO BE CONSTRUCTED IN PHASE 2

EXISTING WEIGHT ROOM BUILDING TO BE RETAINED IN PHASE 1. MAINTAIN OR REPLACE EXISTING UTILITY SERVICES AS NEEDED FOR CONTINUED OPERATION.

CONNECT TO PUBLIC WATER MAIN FOR LOOPING AROUND NEW BUILDING. REMOVE EXISTING WATER MAIN NORTH OF THIS POINT.

EXISTING IRRIGATION TO REMAIN (SEE LANDSCAPE)

LOCATE LOCATE & PROTECT EXISTING IRRIGATION SYSTEM. SEE LANDSCAPE FOR CONNECTIONS OR MODIFICATIONS (TYPICAL)

DEMO EXISTING STRUCTURES & UNDERGROUND UTILITIES WITHIN WORK LIMITS (TYP.)

INSTALL NEW PUBLIC WATER MAIN, SERVICE CONNECTIONS & FIRE HYDRANTS

CONSTRUCT PORTIONS OF NEW BUILDING, INCLUDING COMMONS & GYMNASIUM

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
2. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES, AND NEW UPGRADES NEEDED TO COMPLY WITH CROSS-CONTAMINATION REGULATIONS WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
3. STORMWATER FACILITIES ESSENTIAL FOR EACH PHASE OF BUILDINGS AND PARKING AREAS MUST BE FULLY FUNCTIONAL AND COMPLETE PRIOR TO BUILDING USE AND/OR OCCUPANCY. PROPOSALS TO DO OTHERWISE MUST BE APPROVED BY THE CITY STORMWATER DEPARTMENT AND/OR THE PUBLIC WORKS DIRECTOR.
4. ALL EXISTING BUILDINGS OR STRUCTURES DEMOLITION MUST BE PERMITTED SEPARATELY BY THE CITY OF FERNDALE BUILDING DEPARTMENT.

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

W S N E

0 25 50 100
1 inch = 50 ft.

AS-BUILT DRAWING

AS-BUILT NOTE:
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Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ
STATE OF WASHINGTON
16343
REGISTERED
PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

CIVIL PHASING PLAN
PHASE 1

DRAWING NUMBER:

C1.04

00760.004 07/31/25 RH

VISTA DR.

MALLOY AVE.

MEMORIAL DR.

SHUKSAN AVE.

GOLDEN EAGLE DR.

EXISTING OLD MAIN BUILDING TO BE RETAINED IN PHASE 2. MAINTAIN OR REPLACE EXISTING UTILITY SERVICES AS NEEDED FOR CONTINUED OPERATION.

EXISTING ACADEMIC BUILDING TO BE RETAINED IN PHASE 2. MAINTAIN OR REPLACE EXISTING UTILITY SERVICES AS NEEDED FOR CONTINUED OPERATION.

DEMO EXISTING STRUCTURES & UNDERGROUND UTILITIES WITHIN WORK LIMITS (TYP.)

CONTINUE CONSTRUCTION OF TRACK, FOOTBALL FIELD, PARKING & PLAZA

STORMWATER MANAGEMENT FACILITY TO BE COMPLETED IMMEDIATELY AFTER DEMOLITION OF OLD MAIN BUILDING (i.e. END OF PHASE 2/EARLY PHASE 3)

STORMWATER MANAGEMENT FACILITY TO BE COMPLETED IMMEDIATELY AFTER DEMOLITION OF OLD MAIN BUILDING (i.e. END OF PHASE 2/EARLY PHASE 3)

CONSTRUCT BUS LOOP & STORMWATER MANAGEMENT FACILITY

LOCATE LOCATE & PROTECT EXISTING IRRIGATION SYSTEM. SEE LANDSCAPE FOR CONNECTIONS OR MODIFICATIONS (TYPICAL)

CONTINUE CONSTRUCTION OF NEW BUILDING & CLASSROOM WING

EXISTING WEIGHT ROOM BUILDING TO BE RETAINED IN PHASE 2. MAINTAIN OR REPLACE EXISTING UTILITY SERVICES AS NEEDED FOR CONTINUED OPERATION.

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
2. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES, AND NEW UPGRADES NEEDED TO COMPLY WITH CROSS-CONTAMINATION REGULATIONS WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
3. STORMWATER FACILITIES ESSENTIAL FOR EACH PHASE OF BUILDINGS AND PARKING AREAS MUST BE FULLY FUNCTIONAL AND COMPLETE PRIOR TO BUILDING USE AND/OR OCCUPANCY. PROPOSALS TO DO OTHERWISE MUST BE APPROVED BY THE CITY STORMWATER DEPARTMENT AND/OR THE PUBLIC WORKS DIRECTOR.
4. ALL EXISTING BUILDINGS OR STRUCTURES DEMOLITION MUST BE PERMITTED SEPARATELY BY THE CITY OF FERNDALE BUILDING DEPARTMENT.

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

W S N E

0 25 50 100
1 inch = 50 ft.

AS-BUILT DRAWING

AS-BUILT NOTE:
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2nd Floor / Everett, WA 98201

CONSULTANT:

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Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ
STATE OF WASHINGTON
16343
REGISTERED
PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

CIVIL PHASING PLAN
PHASE 2

DRAWING NUMBER:

C1.05

00760.005 07/31/25 RH

VISTA DR.

MALLOY AVE.

MEMORIAL DR.

SHUKSAN AVE.

GOLDEN EAGLE DR.

EXISTING CAFETERIA BUILDING TO BE DEMOLISHED IN PHASE 3. INSTALL NEW PARKING LOT & STORMWATER MANAGEMENT FACILITIES.

EXISTING OLD MAIN BUILDING TO BE DEMOLISHED IN PHASE 3. INSTALL NEW SPED LOOP, PARKING LOT, & STORMWATER MANAGEMENT FACILITY.

BEGIN FRONTAGE IMPROVEMENTS IN GOLDEN EAGLE DR

DEMO EXISTING STRUCTURES & UNDERGROUND UTILITIES WITHIN WORK LIMITS (TYP.)

ENSURE CONTINUED ACCESS TO EXISTING PAC, EXISTING WEIGHT ROOM BUILDING, & NEW SCHOOL BUILDING

EXISTING ACADEMIC BUILDING TO BE DEMOLISHED IN PHASE 3. CONSTRUCT CTE WING OF NEW SCHOOL BUILDING.

COMPLETE INSTALLATION OF COURTYARD, DROP-OFF LOOP, & STORMWATER MANAGEMENT FACILITIES

COMPLETED PORTIONS OF SCHOOL BUILDING TO BE TURNED OVER TO SCHOOL DISTRICT

LOCATE LOCATE & PROTECT EXISTING IRRIGATION SYSTEM. SEE LANDSCAPE FOR CONNECTIONS OR MODIFICATIONS (TYPICAL)

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
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3. STORMWATER FACILITIES ESSENTIAL FOR EACH PHASE OF BUILDINGS AND PARKING AREAS MUST BE FULLY FUNCTIONAL AND COMPLETE PRIOR TO BUILDING USE AND/OR OCCUPANCY. PROPOSALS TO DO OTHERWISE MUST BE APPROVED BY THE CITY STORMWATER DEPARTMENT AND/OR THE PUBLIC WORKS DIRECTOR.
4. ALL EXISTING BUILDINGS OR STRUCTURES DEMOLITION MUST BE PERMITTED SEPARATELY BY THE CITY OF FERNDALE BUILDING DEPARTMENT.

W S N E

0 25 50 100
1 inch = 50 ft.

AS-BUILT DRAWING

AS-BUILT NOTE:
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FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: for kevin
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

CIVIL PHASING PLAN
PHASE 3

DRAWING NUMBER:

C1.06

00760.006 07/31/25 RH

VISTA DR.

MALLOY AVE.

MEMORIAL DR.

SHUKSAN AVE.

GOLDEN EAGLE DR.

COMPLETE CONSTRUCTION & UTILITY INSTALLATIONS IN NEW PARKING LOTS

COMPLETE REPAIRS & RECONSTRUCTION AT EXISTING PAC BUILDING

FINAL STABILIZATION, DRAINAGE & LANDSCAPING FOR ALL REMAINING AREAS ON SITE.

COMPLETE ALL REMAINING WORK AT PARKING AREAS, PLAZA, & SIDEWALKS. FINALIZE LANDSCAPING.

COMPLETE ALL REMAINING CONSTRUCTION WITHIN ATHLETIC FIELDS & AG BUILDING AREAS

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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."

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STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

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MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

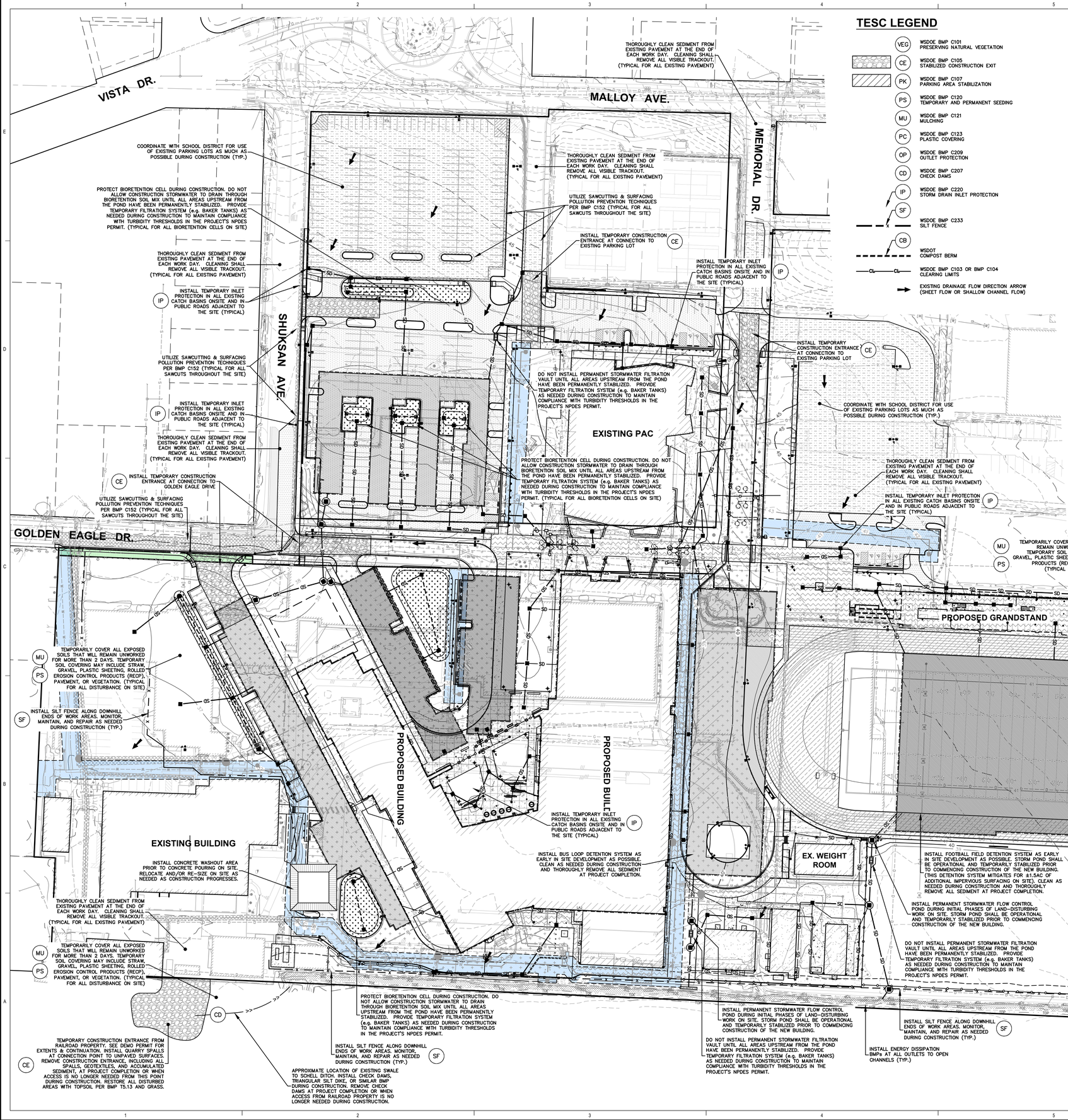
DRAWING TITLE:

CIVIL PHASING PLAN
PHASE 4

DRAWING NUMBER:

C1.07

00760.007 07/31/25 RH



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
- IP — WSDOE BMP C220 STORM DRAIN INLET PROTECTION
- SF — WSDOE BMP C233 SILT FENCE
- CB — WSDOT COMPOST BERM
- WSDOE BMP C103 OR BMP C104 CLEARING LIMITS
- EXISTING DRAINAGE FLOW DIRECTION ARROW (SHEET FLOW OR SHALLOW CHANNEL FLOW)

CONSTRUCTION SCHEDULING NOTE

THIS PROJECT INCLUDES SIGNIFICANT EARTHWORK DURING WINTER AND SPRING SEASONS. CONTRACTOR SHALL MONITOR WEATHER CONDITIONS AND FORECASTS DURING CONSTRUCTION. THE AMOUNT OF SOIL THAT MAY BE EXPOSED AT ANY TIME DEPENDS ON THE CONTRACTOR'S AVAILABLE CREW, MATERIALS, AND EQUIPMENT. CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL EXPOSED SOIL (INCLUDING TRENCHES AND STOCKPILES) CAN BE COMPLETELY COVERED AND STABILIZED PRIOR TO ANY SIGNIFICANT RAINFALL EVENT ON SITE.

TESC CONTRACTOR RESPONSIBILITY

1. TEMPORARY EROSION CONTROL BMPs SHOWN IN THESE PLANS ARE THE MINIMUM NECESSARY FOR PERMIT APPROVALS. ADDITIONAL BMPs MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ADDITIONAL BMPs OR BMP MAINTENANCE THAT MAY BE REQUIRED DURING CONSTRUCTION.
2. THIS PROJECT WILL DISTURB MORE THAN ONE ACRE OF SOIL AND WILL REQUIRE A NATIONAL DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT FROM WASHINGTON DOE. THE OWNER WILL OBTAIN THE NPDES PERMIT AND WILL TRANSFER THE PERMIT TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN THE NPDES PERMIT. THE CONTRACTOR SHALL PREPARE AND MAINTAIN AN EROSION CONTROL LOG BOOK IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR BMP MAINTENANCE OR REPAIRS THAT RESULT FROM COMPLIANCE WITH THE NPDES PERMIT. LIKEMISE, ANY ADDITIONAL BMPs THAT MAY BE REQUIRED FOR COMPLIANCE WITH THE NPDES PERMIT DURING CONSTRUCTION SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY EROSION/SEDIMENTATION CONTROL

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

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 FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

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FREELAND & ASSOCIATES

REGISTRATION STAMP:
MICHAEL DIRK HEITZ — STATE OF WASHINGTON — 46343 — REGISTERED PROFESSIONAL ENGINEER — 7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

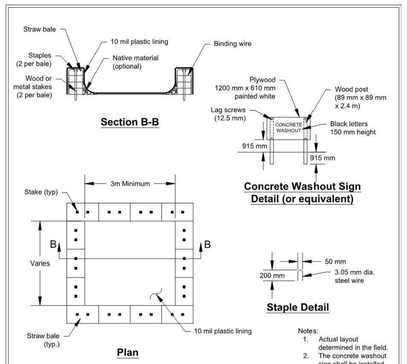
APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN

DRAWING NUMBER:
C2.01

00760.008 07/31/25 RH

1. WASHOUT OF CONCRETE TRUCKS MAY BE PERFORMED ON SITE ONLY IN DESIGNATED CONCRETE WASHOUT AREAS OR FORMED AREAS AWAITING CONCRETE INSTALLATION. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
2. CONCRETE WASHOUT AREAS MAY BE PREFABRICATED CONTAINERS OR SELF-INSTALLED STRUCTURES. IF A PREFABRICATED CONTAINER IS USED, THE CONTRACTOR SHALL PROVIDE APPLICABLE SPECIFICATIONS AND MAINTENANCE REQUIREMENTS TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
3. IF A SELF-INSTALLED WASHOUT AREA WILL BE USED, BELOW-GRADE WASHOUT AREAS ARE PREFERABLE. ONLY INSTALL AN ABOVE-GRADE SYSTEM IF EXCAVATION IS NOT PRACTICAL.
4. CONTRACTOR MAY RELOCATE THE WASHOUT AREA ON SITE TO SUIT CONSTRUCTION CONDITIONS. CONCRETE WASHOUT AREAS SHALL BE LOCATED AT LEAST 50 FEET FROM SENSITIVE AREAS, STORM DRAINS, OPEN DITCHES, WATER BODIES, OR WETLANDS.
5. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREAS AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF PER APPLICABLE SOLID WASTE REGULATIONS.
6. CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES.
7. WASHOUT FACILITIES MUST BE CLEANED OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
8. IF THE WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THE WASTE IN AN APPROVED MANNER. DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS, OR DIRECTLY ONTO GROUND. DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
9. PLACE A SECURE, NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE CONCRETE WASHOUT FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW OF PRECIPITATION.
10. HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.



NOT TO SCALE

DEPARTMENT OF ECOLOGY State of Washington

Figure II-4.1.7b
Concrete Washout Area

Revised June 2015

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DEPARTMENT OF ECOLOGY State of Washington

Figure II-4.1.8
Prefabricated Concrete Washout Container w/Ramp

Revised June 2015

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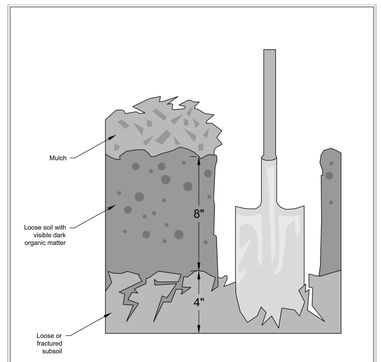
A CONCRETE WASHOUT AREA
nts



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

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B POST-CONSTRUCTION TOPSOIL QUALITY & DEPTH
nts

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.

C SAWCUTTING POLLUTION PREVENTION
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.

Volume II – Construction Stormwater Pollution Prevention - December 2014
4-44

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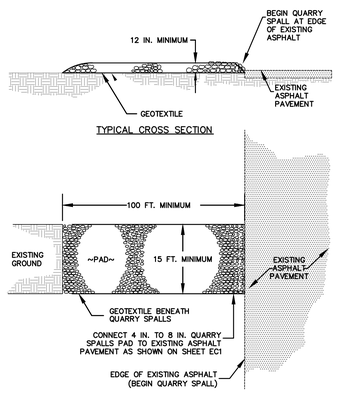
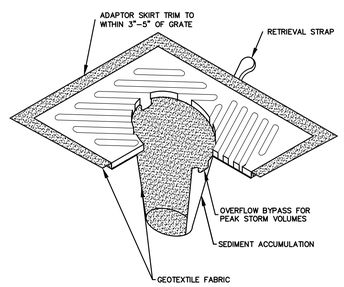
BY: _____ DATE: 10/2/2024



NOTES:
1. THE PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD.
2. PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF ENGINEER OF RECORD OR THE CERTIFIED EROSION & SEDIMENTATION CONTROL LEAD (CESCL).
3. MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF WHATCOM COUNTY.
4. SHAKER PLATS MAY BE SUBSTITUTED FOR QUARRY SPALL ENTRANCE OF DETERMINED APPROPRIATE BY PROJECT CESCL.

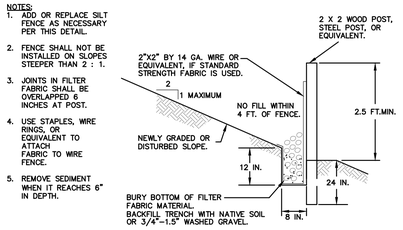
D CONSTRUCTION ENTRANCE
nts

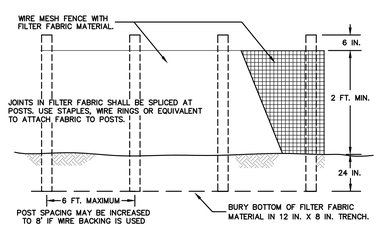


NOTES:
1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL .
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

E TEMPORARY INLET PROTECTION
nts

NOTES:
1. ADD OR REPLACE SILT FENCE AS NECESSARY PER THIS DETAIL.
2. FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2 : 1.
3. JOINTS IN FILTER FABRIC SHALL BE OVERLAPPED 6 INCHES AT POST.
4. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO WIRE FENCE.
5. REMOVE SEDIMENT WHEN IT REACHES 6" IN DEPTH.





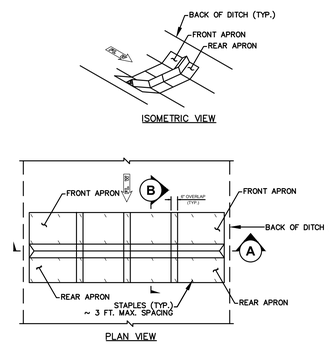
F SILT FENCE
nts

HYDRO-SEED MIX

SEED TYPE	%
RED FESCUE (FESTUCA RUBRA)	40%
REDTOP (AGROSTIS ALBA)	40%
WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	20%

NOTES:
1. THIS SEED MIX IS RECOMMENDED FOR AREAS THAT WILL BE MAINTAINED INFREQUENTLY OR NOT AT ALL AND WHERE COLONIZATION BY NATIVE PLANTS IS DESIRABLE. SEEDING SHALL TAKE PLACE IN SEPTEMBER OR VERY EARLY OCTOBER (PRIOR TO OCT. 10TH).
2. ANY SEEDED AREAS THAT FAIL TO ESTABLISH AT LEAST 80 PERCENT COVER (100 PERCENT COVER FOR AREAS THAT RECEIVE SHEET OR CONCENTRATED FLOWS) SHALL BE RESEEDED. IF RESEEDING IS INEFFECTIVE, AN ALTERNATE METHOD, SUCH AS SODDING, MULCHING, OR NETS/BLANKETS, SHALL BE USED. IF WINTER WEATHER PREVENTS ADEQUATE GRASS GROWTH, THIS TIME LIMIT MAY BE RELAXED AT THE DISCRETION OF THE LOCAL AUTHORITY WHEN SENSITIVE AREAS WOULD OTHERWISE BE PROTECTED.
3. AFTER ADEQUATE COVER IS ACHIEVED, ANY AREAS THAT EXPERIENCE EROSION SHALL BE RESEEDED AND PROTECTED BY MULCH. IF THE EROSION PROBLEM IS DRAINAGE RELATED, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA RESEEDED AND PROTECTED BY MULCH.
4. SEEDED AREAS SHALL BE SUPPLIED WITH ADEQUATE MOISTURE, BUT NOT WATERED TO THE EXTENT THAT IT CAUSES RUNOFF.
5. ALL REMAINING AREAS OF THE TRACT SHALL BE LANDSCAPED AND MULCHED WITH A 3-INCH COVER OF HOG FUEL OR SHREDDED WOO & BARK MULCH.
6. THE MULCH SHALL BE FREE OF GARBAGE AND WEEDS AND SHALL NOT CONTAIN EXCESSIVE RESIN, TANNIN, OR OTHER MATERIAL DETRIMENTAL TO PLANT GROWTH.

G SLOPE STABILIZATION SEED MIX
nts



NOTES:
1. GEOTEXTILE ENCASED CHECK DAMS SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS 8-01.3(6)A AND 9-14.5(4).
2. INSTALL THE SLOPED ENDS OF THE CHECK DAM A MINIMUM OF 3" HIGHER THAN THE TOP OF THE CHECK DAM IN THE CHANNEL TO ENSURE THAT WATER FLOWS OVER THE DAM AND NOT AROUND IT.
3. FLAT BOTTOM DITCH DESIGN SHOWN, CHECK DAM INSTALLATION DETAILS ARE SIMILAR FOR "V" BOTTOM DITCHES.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS 8-01.3(15).

H TRIANGULAR SILT DIKE
nts

AS-BUILT DRAWING

AS-BUILT NOTE:
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FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH — STATE OF WASHINGTON — 36343 — REGISTERED PROFESSIONAL ENGINEER — 7/30/2025

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FOR
FERNDALE SCHOOL DISTRICT
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Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER: 2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: For Kevin Renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

TEMPORARY EROSION & SEDIMENTATION CONTROL DETAILS

DRAWING NUMBER:

C2.02

00760.009 07/31/25 RH

ELEMENT #1: MARK CLEARING LIMITS
THE ENTIRE PARCEL HAS BEEN CLEARED AND IN USE AS A SCHOOL CAMPUS FOR MANY YEARS. NO ADDITIONAL TREE CANOPY CLEARING WILL BE REQUIRED. CLEARING LIMITS ARE SHOWN ON THE PLANS TO DELINEATE THE PROPOSED WORK AREA AND ALL SOIL DISTURBANCE SHALL REMAIN WITHIN THIS AREA. EXISTING GRASSY FIELDS AROUND THE PROJECT SHALL REMAIN UNDISTURBED TO THE MAXIMUM EXTENT PRACTICABLE. EXISTING UNDISTURBED GRASSY AREAS MAY BE USED FOR STORMWATER DISPERSION AND INFILTRATION DURING CONSTRUCTION.
WASHINGTON STATE DOE BEST MANAGEMENT PRACTICES (BMPs) CONSIDERED FOR THIS ELEMENT 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
DUE TO THE LARGE SCALE AND MULTI-PHASE NATURE OF THE PROJECT, SEVERAL CONSTRUCTION ACCESS POINTS WILL BE REQUIRED FOR CONNECTION TO PUBLIC STREETS. STABILIZED CONSTRUCTION ENTRANCES WILL BE INSTALLED AT EACH ACCESS POINT THAT IS USED FOR CONSTRUCTION. ALL CONSTRUCTION TRAFFIC, SUCH AS PERSONAL VEHICLES, WORK TRUCKS, ETC., THAT WILL ROUTINELY LEAVE THE SITE SHALL REMAIN ON EXISTING PAVED SURFACES AS MUCH AS POSSIBLE. CONSTRUCTION PERSONNEL, VEHICLES AND EQUIPMENT SHALL NOT BLOCK OR OBSTRUCT ACCESS TO ANY EXISTING, DEVELOPED RESIDENTIAL LOTS. CONSTRUCTION TRAFFIC MAY ONLY LEAVE THE EXISTING STABILIZED SURFACES IF NECESSARY FOR EQUIPMENT OR MATERIAL TRANSFERS. PAVED ROADS WILL BE CLEANED AT THE END OF EACH DAY AND SEDIMENT TRANSPORTED TO ROADS WILL BE SWEPT AND DISPOSED OF AT A CONTROLLED DISPOSAL AREA.
BMPs CONSIDERED FOR THIS ELEMENT INCLUDE:
- HOUSEKEEPING/MAINTENANCE BMP: DAILY STREET SWEEPING
- BMP C105: STABILIZED CONSTRUCTION ENTRANCE

ELEMENT #3: CONTROL FLOW RATES
PROPOSED STORMWATER FLOW CONTROL FACILITIES SHALL BE INSTALLED THROUGHOUT THE SITE AS EARLY AS POSSIBLE WITHIN EACH CONSTRUCTION PHASE. TEMPORARY STORAGE DEPRESSIONS OR SEDIMENT TRAPS AND PONDS MAY ALSO BE CONSTRUCTED IF STORMWATER RUNOFF FLOWS ARE OBSERVED DURING CONSTRUCTION. IN ADDITION, MATERIAL FROM ALL EXCAVATIONS AND UTILITY TRENCHES SHALL BE LOCATED ON THE UPHILL SIDE OF THE EXCAVATED AREAS AS MUCH AS SAFELY POSSIBLE. THE CONTRACTOR AND CERTIFIED EROSION AND SEDIMENTATION CONTROL LEAD (CESCL) WILL BE RESPONSIBLE TO DETERMINE IF TEMPORARY STORMWATER FILTRATION IS REQUIRED DURING CONSTRUCTION.
BMPs CONSIDERED FOR THIS ELEMENT INCLUDE:
- BMP C240: SEDIMENT TRAP
- BMP C241: TEMPORARY SEDIMENT POND

ELEMENT #4: INSTALL SEDIMENT CONTROLS
SEDIMENT CONTROLS WORK IN CONJUNCTION WITH BMPs IN ELEMENT #5: SOIL STABILIZATION TO RETAIN SEDIMENT ON SITE TO THE MAXIMUM AMOUNT PRACTICABLE. THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION OR GRASSES ON SITE WILL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE. SILT FENCE WILL BE INSTALLED ALONG THE PERIMETER OF THE WORK LIMITS AND ALONG ADJACENT RESIDENTIAL CONSTRUCTION. ALSO, IF EXCAVATED MATERIAL OR FILL MATERIAL IS PLACED WITHIN THE PROJECT SITE SUCH THAT RUNOFF FROM THE MATERIAL WOULD FLOW OFF SITE, THEN SEDIMENT CONTROLS, SUCH AS TEMPORARY BERMS OR SILT FENCE, MUST BE INSTALLED DOWNHILL FROM THE NEWLY-GRADED MATERIAL. ANY TEMPORARY DRAINAGE CHANNELS THAT MAY BE REQUIRED DURING CONSTRUCTION WILL BE STABILIZED WITH LININGS AND CHECK DAMS. NEW STORMWATER FILTRATION VAULTS AND BIORETENTION CELLS SHALL NOT BE USED FOR TEMPORARY FILTRATION DURING CONSTRUCTION. IF NECESSARY, TURBID CONSTRUCTION STORMWATER MAY BE TREATED WITH SEDIMENT TRAPS, TEMPORARY SEDIMENT PONDS, OR PORTABLE FILTRATION SYSTEMS (e.g. BAKER TANKS) AS NEEDED FOR COMPLIANCE WITH THE PROJECT'S NPDES PERMIT. THE CONTRACTOR AND THEIR CESCL ARE RESPONSIBLE FOR LOCATING AND INSTALLING ANY SUCH TEMPORARY SEDIMENT CONTROLS NEEDED FOR COMPLIANCE WITH THE NPDES PERMIT.
BMPs CONSIDERED FOR THIS ELEMENT INCLUDE:
- BMP C231: BRUSH BARRIER
- BMP C232: GRAVEL FILTER BERM
- BMP C233: SILT FENCE
- BMP C240: SEDIMENT TRAP
- BMP C241: TEMPORARY SEDIMENT POND

ELEMENT #5: STABILIZE SOILS
CONSTRUCTION EROSION CONTROL BMPs SHALL BE INSTALLED PRIOR TO SOIL-DISTURBING ACTIVITIES TO THE MAXIMUM EXTENT PRACTICABLE. ANY BMPs THAT CANNOT BE INSTALLED PRIOR TO GRADING OR SOIL DISTURBANCE SHALL BE INSTALLED AND MADE OPERABLE IMMEDIATELY AFTER INSTALLATION IS MADE POSSIBLE. DISTURBED SOILS WILL BE PERMANENTLY STABILIZED ON SITE WITH PAVEMENT OR WITH PERMANENT PLANTINGS AND SEEDING. ALL EXPOSED AND UNWORKED SOIL WILL BE TEMPORARILY STABILIZED WITH SEEDING, MULCH, STRAW, NETS AND BLANKETS, OR PLASTIC COVERING PER DOE STANDARDS. NO SOIL WILL BE EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS BETWEEN MAY 1 AND SEPTEMBER 30. NO SOIL WILL BE EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS BETWEEN OCTOBER 1 AND APRIL 30.
BMPs CONSIDERED FOR THIS ELEMENT INCLUDE:
- BMP C120: TEMPORARY AND PERMANENT SEEDING
- BMP C121: MULCHING
- BMP C122: NETS AND BLANKETS
- BMP C123: PLASTIC COVERING

ELEMENT #6: PROTECT SLOPES
NO SIGNIFICANT CUT OR FILL SLOPES ARE PROPOSED AS A PART OF THIS PROJECT. MINOR CUT AND FILL SLOPES THAT WILL BE REQUIRED FOR STREET CONSTRUCTION WILL BE PROTECTED WITH SOIL STABILIZATION BMPs IDENTIFIED IN ELEMENT #5 ABOVE.

ELEMENT #7: PROTECT DRAIN INLETS
ALL DRAINAGE INLETS MADE OPERABLE DURING CONSTRUCTION WILL BE PROTECTED SO THAT NO STORMWATER MAY ENTER THE CONVEYANCE SYSTEMS WITHOUT FILTRATION OR OTHER TREATMENT FOR SEDIMENT. ADDITIONAL INLET PROTECTIONS MAY BE REQUIRED IF SEDIMENT IS TRACKED ONTO PAVEMENT BEYOND THE CATCH BASINS THAT ARE IDENTIFIED ON THE PLANS.
BMPs CONSIDERED FOR THIS ELEMENT INCLUDE:
- BMP C220: STORM DRAIN INLET PROTECTION

ELEMENT #8: STABILIZE CHANNELS AND OUTLETS
NO TEMPORARY OR PERMANENT CHANNELS ARE PROPOSED FOR THIS PROJECT. IF TEMPORARY CHANNELS BECOME NECESSARY DURING CONSTRUCTION, THEY SHALL BE DESIGNED AND BUILT WITH MINIMAL SLOPES (APPROXIMATELY 0.5%). SIDE SLOPES SHALL BE LIMITED TO 2:1 AND SHALL BE LINED WITH TOPSOIL AND GRASS. DURING CONSTRUCTION, THE SIDES OF THE SWALE SHOULD BE STABILIZED WITH ROLLED EROSION CONTROL PRODUCTS, PLASTIC, OR CLEAN GRAVEL. THE OWNER SHALL PROVIDE EASEMENTS AS NEEDED FOR ANY TEMPORARY CHANNELS THAT DRAIN OFFSITE DURING CONSTRUCTION.

ELEMENT #9: CONTROL POLLUTANTS
ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CONTAMINATE OR CAUSE THE CONTAMINATION OF STORMWATER. CLEARING AND LAND-DISTURBING ACTIVITIES WILL ALSO BE LIMITED TO THE MINIMUM AREA NECESSARY IN A FURTHER EFFORT TO MINIMIZE SEDIMENT TRANSPORT OFF SITE. CONCRETE TRUCKS AND EQUIPMENT SHALL NOT BE WASHED OFF INTO THE STREET OR INTO EXISTING OR PROPOSED DRAINAGE SYSTEMS. MAINTENANCE OF HEAVY EQUIPMENT INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEARING 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 THE USE OF DRIP PANS AND CONDUCTING MAINTENANCE ON A TEMPORARY PAD THAT CAN BE USED TO CAPTURE LARGE SPILLS.
BMPs CONSIDERED FOR THIS ELEMENT INCLUDE VARIOUS SOURCE CONTROL BMPs:
- BMPs FOR DUST CONTROL AT DISTURBED LAND AREAS AND UNPAVED ROADS
- BMPs FOR LANDSCAPING AND LAWN/VEGETATION MANAGEMENT
- BMPs FOR MAINTENANCE AND REPAIR OF VEHICLES AND EQUIPMENT
- BMPs FOR MAINTENANCE OF STORMWATER DRAINAGE AND TREATMENT SYSTEMS

ELEMENT #10: CONTROL DE-WATERING
SEASONAL HIGH GROUND WATER WAS FOUND ROUGHLY THREE FEET BELOW EXISTING GRADES. IF DEWATERING DOES BECOME NECESSARY DURING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A DEWATERING PLAN IN ACCORDANCE WITH CITY STANDARDS AND DEPT. OF ECOLOGY REQUIREMENTS. AS A PART OF THE PLAN, ALL DEWATERING WATER SHALL BE DISCHARGED TO A CONTROLLED CONVEYANCE SYSTEM FOR TREATMENT AND/OR INFILTRATION. CLEAN, NON-TURBID DEWATERING WATER SHOULD BE ROUTED DIRECTLY TO A TEMPORARY INFILTRATION FACILITY, OR TO TRIBUTARIES OR WATERS OF THE STATE, IF AVAILABLE. HIGHLY-TURBID DEWATERING WATER SHALL BE HANDLED SEPARATELY FROM STORMWATER AND MAY BE PUMPED TO VEGETATED AREAS ON SITE OR TRUCKED OFF SITE FOR TREATMENT AND DISPOSAL.

ELEMENT #11: MAINTAIN BMPs
ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL BMPs SHALL BE INSPECTED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH BMP SPECIFICATIONS.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED.

ELEMENT #12: MANAGE THE PROJECT
PHASING OF CONSTRUCTION
THIS PROJECT WILL BE CONSTRUCTED IN MULTIPLE PHASES. TO THE EXTENT PRACTICABLE, SITE DISTURBANCE, CLEARING, AND CONSTRUCTION WILL BE SCHEDULED APPROPRIATELY TO MINIMIZE THE TIME THAT SOIL MAY BE EXPOSED. CLEARING AND GRADING ACTIVITIES WILL OCCUR AFTER THE APPLICABLE PERMITS HAVE BEEN OBTAINED. WHEN ESTABLISHING CLEARING AND GRADING AREAS, CONSIDERATION WILL BE GIVEN TO MINIMIZING REMOVAL OF EXISTING VEGETATION AND MINIMIZING DISTURBANCE AND COMPACTION OF NATIVE SOILS BETWEEN PHASES EXCEPT AS NEEDED FOR BUILDING PURPOSES.

SEASONAL WORK LIMITATIONS
FROM OCTOBER 1 THROUGH APRIL 30, SOIL WILL NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. FROM MAY 1 THROUGH SEPTEMBER 30, SOIL WILL NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. IN ADDITION, WEATHER CONDITIONS SHALL 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 THE EVENT OF A FORECASTED PRECIPITATION EVENT, THE CONTRACTOR SHALL EVALUATE EXISTING BMPs ON SITE AND SHALL IMPLEMENT ADDITIONAL BMPs IF THE EXISTING SITE CONDITIONS ARE INADEQUATE TO PREVENT RAINFALL FROM CONTACTING UNSTABILIZED SURFACES.

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 APPROPRIATELY MODIFIED IN A TIMELY MANNER. SINCE THIS PROJECT WILL DISTURB MORE THAN ONE ACRE, THE CITY OF LYNDEN REQUIRES A CESCL TO PERFORM EROSION CONTROL INSPECTIONS AND TO PROVIDE RECOMMENDATIONS FOR THIS PROJECT DURING CONSTRUCTION. PRIOR TO CONSTRUCTION, DOCUMENTATION OF THE CESCL'S NAME AND CURRENT CERTIFICATION SHALL BE PROVIDED TO THE CITY OF LYNDEN PRIOR TO STARTING WORK.

MAINTENANCE OF THE CONSTRUCTION SWPPP
THE CONSTRUCTION SWPPP WILL BE RETAINED ON-SITE AND WILL BE UPDATED ON A REGULAR BASIS. A LOG WILL BE ATTACHED TO THE CONSTRUCTION SWPPP TO FACILITATE REGULAR UPDATES. MODIFICATIONS TO THE CONSTRUCTION SWPPP WILL BE MADE WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP. IF THE CONTRACTOR DOES NOT IMPLEMENT BMPs SPECIFIED ON THESE PLANS AND IF SITE CONDITIONS DO NOT REQUIRE THE BMPs, THE CONTRACTOR SHALL PROVIDE WRITTEN JUSTIFICATION IN THE SWPPP FOR WHY THE BMP IS UNNECESSARY.

ELEMENT #13: PROTECT LOW IMPACT DEVELOPMENT BMPs
NO BMPs ARE PROPOSED FOR LOW IMPACT DEVELOPMENT. HOWEVER, THE PROJECT DOES INCLUDE SEVERAL BIORETENTION CELLS THROUGHOUT THE SITE FOR PERMANENT STORMWATER TREATMENT. THESE BIORETENTION CELLS WILL BE FITTED WITH UNDERDRAINS TO ENSURE THAT STORMWATER FLOWS THROUGH THE FILTRATION MEDIA. CONSTRUCTION EQUIPMENT AND HEAVY TRAFFIC SHALL REMAIN OUTSIDE OF THE BIORETENTION AREAS FOLLOWING INSTALLATION OF THE BIORETENTION CELLS. CONSTRUCTION STORMWATER SHALL NOT BE DIRECTED INTO THE BIORETENTION CELLS UNTIL UPSTREAM AREAS ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL PROVIDE ALTERNATIVE STORMWATER FILTRATION SYSTEMS IF NEEDED DURING CONSTRUCTION IN ACCORDANCE WITH ELEMENT #4 ABOVE.

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

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

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
425.259.3161 (T)
1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK BRATT
STATE OF WASHINGTON
46345
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY:
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORMWATER POLLUTION PREVENTION PLAN

DRAWING NUMBER:

C2.03

00760.010 07/31/25 RH

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
2. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES, AND NEW UPGRADES NEEDED TO COMPLY WITH CROSS-CONTAMINATION REGULATIONS WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
3. CONNECTION TO SEWER AND WATER MAINS FOR ALL EXISTING STRUCTURES WILL BE ESTABLISHED AND/OR VERIFIED FOR FINAL PROJECT AS-BUILTS.

MALLOY AVE.

LOT B
MEMORIAL HEIGHTS LLA
AF#2050902399
TP: 3902200082550000
#5894 MALLOY AVENUE
GRINDELL / SOWERS

5' UTILITIES EASEMENT AS CREATED ON "MEMORIAL HEIGHTS" AF#2050902399

LOT A
MEMORIAL HEIGHTS LLA
AF#2050902399
TP: 3902200082480000
#5890 MALLOY AVENUE
MEYER

LOT 3
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200122410000
#5886 MALLOY AVENUE
RESKUSICH

TP: 3902195542380000
#5881 MALLOY AVENUE
WHEELER

LOT 4
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200142330000
#5880 MALLOY AVENUE
PATTERSON

N.10' LOT 5

TP: 3902195542290000
#5873 MALLOY AVENUE
HARVEY

TP: 3902195542230000
NO STREET ADDRESS
HARVEY

LOT 6
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200122210000
#5870 MALLOY AVENUE
MILLER

LOT 7
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112140000
#5862 MALLOY AVENUE
HERNANDEZ

S.1'-2" LOT 7, MEMORIAL HEIGHTS

LOT 8
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112080000
#5858 MALLOY AVENUE
GAULT

N.53' LOT 8, MEMORIAL HEIGHTS

5' UTILITY EASEMENT AS CREATED ON HULSMAN S.P. AF#2016-0701626

24' ACCESS EASEMENT IN FAVOR OF LOT A, PER SURVEY AS SHOWN ON HULSMAN S.P. AF#2040200997

10' STORMWATER EASEMENT AS SHOWN ON HULSMAN S.P. AF#2016-0701626

N01°14'51"E 1325.69'

SSMH#10045
RIM=76.36
IE N=69.5, 8"CONC
IE S=69.4, 8"CONC
IE W=69.9, 8"CONC

SSMH#10051
RIM=83.46
IE N=76.6, 8"CONC
IE S=76.5, 8"CONC
IE W=76.9, 8"CON

WV#40682
TOP=83.29
NUT=80.9

WV#40680
TOP=83.01
NUT=80.8

SSMH#8384
RIM=79.41
IE N=73.6, 8"CONC
IE S=73.5, 8"CONC

SSMH#29634
RIM=70.37
IE N=63.9, 8"CONC
IE S=63.8, 8"CONC

ASSUMED LOCATION OF DOMESTIC WATER METER FEEDING THE BUS BARN. CONTRACTOR TO VERIFY EXISTING WATER METER LOCATION AND REPORT TO ENGINEER OF RECORD.

LOCATE EXISTING DOMESTIC WATER SERVICE TO BUS BARN. INSTALL DCVA IN VAULT WITH HEAVY DUTY TRAFFIC-RATED LID. DCVA SIZE TO MATCH EXISTING PIPE SIZE & TO BE SET WITHIN 3' DOWNSTREAM FROM METER.

STORAGE CONTAINER
WOOD SHED
FUEL PUMP
FUEL TANK
ELECTRICAL VAULT
WOOD LEAN-TO
WOOD ADDITION
72" DOOR
ELECTRICAL/COMM. METERS/CONTROLS
144" OVERHEAD DOOR
SHOP
144" OVERHEAD DOOR FF=56.12
144" OVERHEAD DOOR
36"DOOR
OIL/FUEL TANK
AIR CONDITIONING UNIT ON CONC. PAD
FF=54.30
36"DOOR AWNING OVER ENTRY
36"DOOR FF=54.26 AWNING OVER ENTRY
ALUMINUM SIDED FERNDALE SCHOOL DIST. DEPOT BUILDING
SHED
STORAGE
MATERIALS
COVERED BAY
CAVE LINE
ELECTRICAL TRANSFORMER
ELECTRICAL VAULT
ALUMINUM SIDED FERNDALE SCHOOL DIST. DEPOT BUILDING
10' WIDE PUGET SOUND ENERGY EASEMENT AF#2080403983 (LOCATED AS CONSTRUCTED)
WV#40322
TOP=54.41
NUT=52.0
FF=54.26
ELECTRICAL PANEL
ELECTRICAL BOX
STORMWATER DETENTION EASEMENT IN FAVOR OF THE CITY OF FERNDALE AF#950109034
WV#8826
TOP=50.44
RIP RAP
ELEC. PANEL

N
W E
S

0 10 20 40
1 inch = 20 ft.

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

LOCATE EXISTING DOMESTIC WATER SERVICE TO MAINTENANCE (DEPOT) BUILDING. INSTALL RPBA IN HEATED ENCLOSURE PER COF STANDARD DETAIL W-19. RPBA SIZE TO MATCH EXISTING PIPE SIZE & TO BE SET WITHIN 3' DOWNSTREAM FROM METER. (AB)

INSTALL:
(1) 8"x6" TEE [MxFL]
(1) 8" MJ PLUG
(1) 6" GATE VALVE [FLxMJ] (AB)
18 LF 6" D.I. WATER MAIN (AB)
(1) FIRE HYDRANT ASSEMBLY & THRUST BLOCKS. (AB)

217 LF 6" DI WATER MAIN

24' WIDE EASEMENT ALONG NEW PUBLIC WATER MAIN PER AF# 2025-0600968 (TYP.)

LOCATE & POTHOL
8" SEWER MAIN. C
TO EXISTING 8" SS
8" INV: 36.95
NEW 6" INV: 37.18

SS

LOCATE & CAP E
SEWER PIPING. RE
8" WITHIN PROJEC
OF THIS POINT A
OF EXISTING GYM
ADJUST SSMH RIN
GRADE (40.99 AB

MATCHLINE SHEET C3.02

MATCHLINE SHEET C3.03

DYKEMAN
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1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: BJ Hamper for Kevin Renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
SITE UTILITY PLAN NW

DRAWING NUMBER:
C3.01

00760.011 07/31/25 RH

00760.012 07/31/25 RH

24' WIDE EASEMENT ALONG EXISTING PUBLIC WATER MAIN PER AF# 2025-0600968 (TYP.)

EXISTING WATER MAIN TO REMAIN UNDISTURBED. DO NOT EXCAVATE ABOVE EXISTING MAIN TO ENSURE EXISTING COVER IS MAINTAINED.

STORMWATER DETENTION FACILITY AF#9501109034

WATER DETENTION EASEMENT R OF THE CITY OF FERNDALE AF#9501109034

WV@8826 TOP=50.44

RIP RAP

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
2. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES, AND NEW UPGRADES NEEDED TO COMPLY WITH CROSS-CONTAMINATION REGULATIONS WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
3. CONNECTION TO SEWER AND WATER MAINS FOR ALL EXISTING STRUCTURES WILL BE ESTABLISHED AND/OR VERIFIED FOR FINAL PROJECT AS-BUILTS.

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

WV@28105 TOP=43.57

WV@28107 TOP=43.24

WV@28106 TOP=43.23

IRRIGATION PIPE STORAGE

24' ACCESS ROUTES EASEMENT IN FAVOR OF CITY OF FERNDALE AFN# 1116271

ELEC. PANEL

INSTALL 186 LF 1"ø HDPE WATER SERVICE & POST-MOUNTED FROST-FREE YARD HYDRANT W/ CHECK VALVE, MOUNT HOSE BIB 4' ABOVE FG. SEE LANDSCAPE FOR HYDRANT SPEC. (AB)

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

25' BUFFER

MATCHLINE SHEET C3.01

PROPOSED GRANDSTAND

FFE: 41.75

INSTALL SHUTOFF VALVE & 1" CONNECTION TO 3" DOMESTIC WATER SERVICE

604 LF 3"ø C900 PVC DOMESTIC WATER SERVICE TO GRANDSTANDS, INSTALL BENDS AS NEEDED FOR ALIGNMENT

565 LF 6"ø DI (RESTRAINED JOINT) FIRE SERVICE TO GRANDSTANDS, INSTALL BENDS AS NEEDED FOR ALIGNMENT

SSCO
RIM: 41.71 (AB)
6" INV (W): 37.70
6" INV (E): 37.70

LOCATE & POTHOLE EXISTING 8" SEWER MAIN, CONNECT TO EXISTING 8" SS
8" INV: 36.9±
NEW 6" INV: 37.18

INSTALL:
" TEE [MxFL]
) 6" MJ PLUG
[FLxMJ] (AB)
TER MAIN (AB)
NT ASSEMBLY
BLOCKS. (AB)

UTILITY X-ING:
FG: 41.91
SD INVERT: 38.29
SS CROWN: 37.99
(0.30' VERTICAL SEPARATION)
INSTALL SD PIPE WITHIN DI CASING & CENTER CASING AT CROSSING

UTILITY X-ING:
FG: 41.08
WA INVERT: 37.67
SD CROWN: 37.26
(0.4' VERTICAL SEPARATION)
INSTALL SD PIPE WITHIN DI CASING & CENTER CASING AT CROSSING

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

372 LF 8"ø DI WATER MAIN

ASEMENT ALONG ATER MAIN PER 0600968 (TYP.)

LOCATE & CAP EXISTING 8" SEWER PIPING. REMOVE EXISTING 8" WITHIN PROJECT LIMITS EAST OF THIS POINT AFTER DEMOLITION OF EXISTING GYM BUILDING. ADJUST SSMH RIM TO FINISH GRADE (40.99 AB)

MATCHLINE SHEET C3.04

LOCATE & CONNECT TO EXISTING WASTE LINE. CONTRACTOR MUST VERIFY GRAVITY FLOW PRIOR TO SS SERVICE INSTALLATION.

BURLINGTON NORTHERN RAILROAD

N W E S

0 10 20 40
1 inch = 20 ft.

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

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
425.259.3161 (T)
1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY:
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

SITE UTILITY PLAN
NE

DRAWING NUMBER:

C3.02

00760.013 07/31/25 RH

MATCHLINE SHEET C3.01

MATCHLINE SHEET C3.04

MATCHLINE SHEET C3.05

MEMORIAL DR.

MALLOY AVE.

SCHOOL ST.

LOT 8
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112080000
#5858 MALLOY
AVENUE
GAULT

N.53' LOT 8, MEMORIAL HEIGHTS

LOT 9
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200121990000
#5854 MALLOY
AVENUE
THOMAS

LOT B
JUBILEE S.P.
AF#2040200597
TP: 3902195562040000
#5853 MALLOY
AVENUE
SMETANA T LLC
5' UTILITY EASEMENT
AS CREATED ON JUBILEE S.P.
AF#2040200597

24' ACCESS EASEMENT
IN FAVOR OF LOT A, JUBILEE S.P.
AS CREATED ON JUBILEE S.P.
AF#2040200597

TP: 3902195571830000
#5841 MALLOY
AVENUE
ALVARADO

TP: 3902195521750000
#5833 MALLOY
AVENUE
SMEALL

LOT 2
12TH LLA
2100302011
1955316800000
29 MALLOY
AVENUE
RICKSON

10' PUGET POWER EASEMENT
APPROXIMATE LOCATION
AF#1533794

24' Public water main easement
AF# 2025-0600968

24' WIDE EASEMENT
ALONG NEW PUBLIC
WATER MAIN (TYP.)

24' WIDE EASEMENT ALONG
NEW PUBLIC WATER MAIN PER
AF# 2025-0600968 (TYP.)

225 LF 8"ø DI WATER MAIN

237' LF 8"ø DI WATER MAIN

SSMH#10045
RIM=76.36
IE N=69.5, 8"CONC
IE S=69.4, 8"CONC
IE W=68.9, 6"CONC

SSMH#11010
RIM=54.84
IE N=47.5, 8"CONC
IE E=47.4, 8"PVC

SSMH#12829
RIM=57.52
IE N=47.7, 8"PVC
IE S=47.6, 8"PVC

WV#10374
TOP=71.69

WV#10373
TOP=69.75
NUT=64.65
SILTED

WV#10369
TOP=67.1

WV#10772
TOP=62.12
NUT=59.5

WV#12820
TOP=57.14
NUT=53.6

WV#25316
TOP=39.78

SSCO#25330
RIM=39.32
INACCESSIBLE

SSCO#25548
RIM=41.18
INACCESSIBLE

SSCO#25599
RIM=38.30
INACCESSIBLE

SSCO#25600
RIM=39.10
Inverted Elbow

SSCO
RIM: 39.34
6" INV (W):
6" INV (E):

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

LOCATE EXISTING 4" FIRE SERVICE & INSTALL:
(1) BACKFLOW PREVENTION ASSEMBLY INLINE WITH EXISTING PIPING (AB)
(1) VAULT W/ TRAFFIC RATED HATCH & SUMP PUMP, OLDCASTLE 676-LA OR SIMILAR. CONNECT SUMP PUMP TO SDCB #813 W/ HDPE PIPING. (AB)
F C6.01

CONNECT TO EXISTING 14"ø WATER MAIN, INSTALL:
(1) 14"x8" TAPPING SLEEVE
(1) 8" GATE VALVE
& THRUST BLOCK
POTHOLE EXISTING UTILITIES AT CROSSINGS TO VERIFY THAT NO CONFLICTS EXIST PRIOR TO INSTALLING NEW WATER MAIN.

REPLACE EXISTING HYDRANT WITH NEW, SET NEW HYDRANT TO MATCH FINISH GRADE.

EXISTING 4" FIRE SERVICE TO PAC FOUND DURING CONSTRUCTION

EXISTING PAC
(TO REMAIN)
EX. FFE: 39.5 ~ 44.2

REMOVE EXISTING WOOD & BLOCK METER VAULT. REPLACE SERVICE PIPING & INSTALL NEW 2" METER & BOX WITH TRAFFIC RATED LID. (AB)

INSTALL 2" DOUBLE CHECK VALVE ASSEMBLY IN METER BOX WITH TRAFFIC RATED LID. DCVA SHALL BE LOCATED DOWNSTREAM AND WITHIN 3' OF NEW WATER METER BOX. (AB)

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

ADJUST RIM OF EX. SSMH TO FINISH GRADE (39.05)

LOCATE & CONNECT TO EXISTING PRIVATE NATURAL GAS PIPING (APPROXIMATE LOCATION SHOWN, NOT SURVEYED)

INSTALL:
(1) 8"x6" TEE [MJxFL]
(1) 6" GATE VALVE (AB)
(1) FIRE HYDRANT ASSEMBLY (AB)
& THRUST BLOCKS

CONNECT TO EXISTING 14"ø WATER MAIN, INSTALL:
(1) 14"x8" TAPPING SLEEVE
(1) 8" GATE VALVE (AB)
28 LF 8"ø DI WATER MAIN (AB)
& THRUST BLOCK POTHOLE EXISTING SD AT CROSSING TO VERIFY THAT NO CONFLICTS EXIST PRIOR TO INSTALLING NEW WATER MAIN AND HYDRANTS.

CLOSE & CAP EXISTING VALVE. REMOVE EXISTING FIRE HYDRANT AND PIPING WEST OF THIS POINT.

END WATER MAIN, INSTALL:
(1) 8"x6" TEE [MJxFL]
(1) 8" MJ PLUG
(1) 6" GATE VALVE (AB)
(1) FIRE HYDRANT ASSEMBLY (AB)
& THRUST BLOCKS

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

CONNECT TO EXISTING 14"ø WATER MAIN, INSTALL:
(1) 14"x8" TAPPING SLEEVE
(1) 8" GATE VALVE (AB)
& THRUST BLOCK

CONNECT TO EXISTING 15" PVC SEWER MAIN, ASS
15" INV: 31.83

20 LF 6"ø PVC SS

ADJUST RIM OF EX. SS TO FINISH GRADE (39.

CLOSE VALVE & RE WATER MAIN EAST INSTALL BLIND FLAN COMPLETED AFTER EXISTING GYM & ED

LOCATE & CAP SEWER PIPING. RE 8" WITHIN PROJE OF THIS POINT A OF EXISTING GYM ADJUST SSMH RIM GRADE (40.99 AB

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
2. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES, AND NEW UPGRADES NEEDED TO COMPLY WITH CROSS-CONTAMINATION REGULATIONS WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
3. CONNECTION TO SEWER AND WATER MAINS FOR ALL EXISTING STRUCTURES WILL BE ESTABLISHED AND/OR VERIFIED FOR FINAL PROJECT AS-BUILTS.

0 10 20 40
1 inch = 20 ft.

AS-BUILT DRAWING

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

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www.dykeman.net
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2nd Floor / Everett, WA 98201

CONSULTANT:
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Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:
MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED
PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

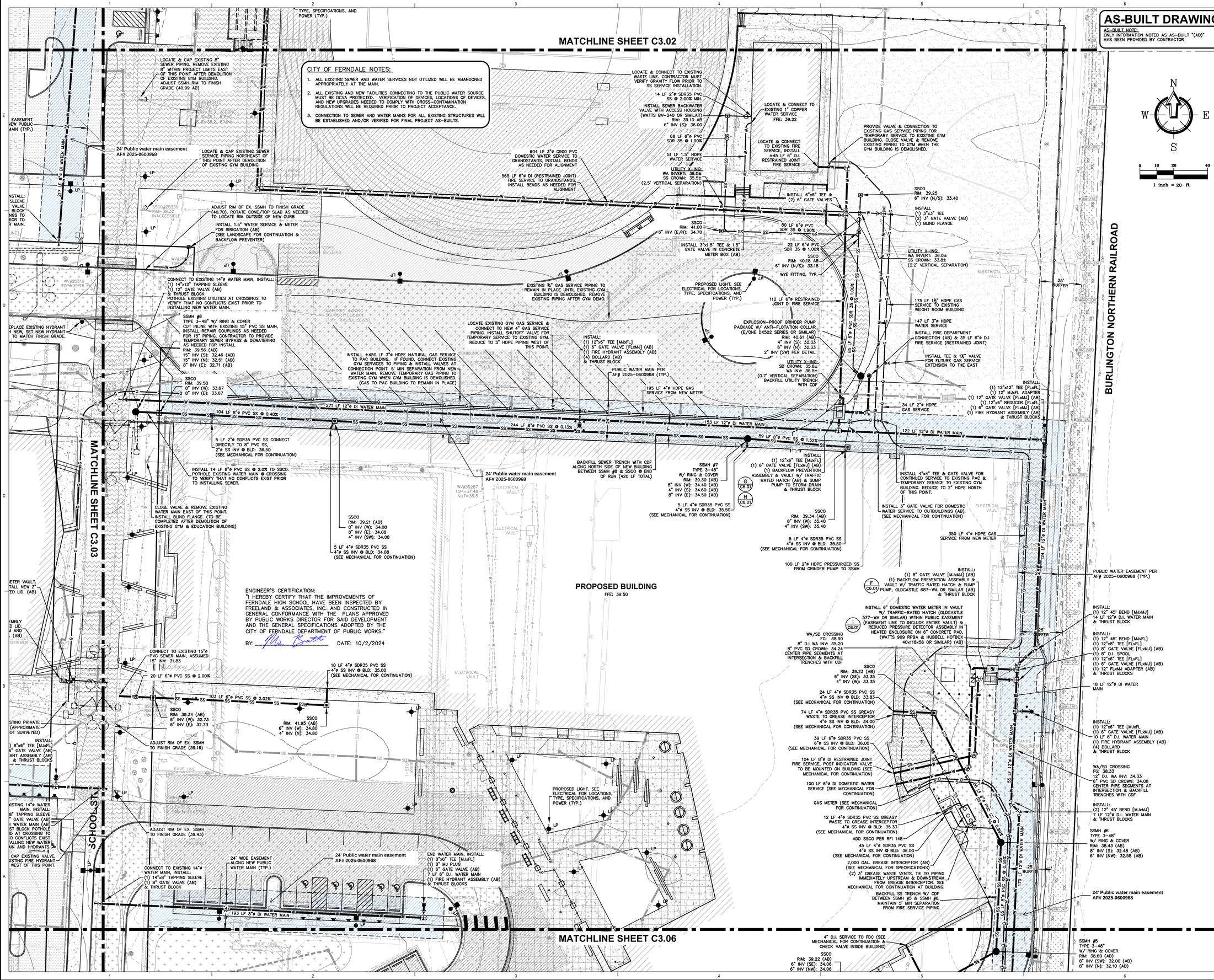
PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ FOR KEVIN REINZ
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
SITE UTILITY PLAN W

DRAWING NUMBER:
C3.03



00760.014 07/31/25 RH

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1716 West Marine View Drive 2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 | t: 360.650.1408
Bellingham, WA 98225 | f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ — STATE OF WASHINGTON — 16343 — REGISTERED PROFESSIONAL ENGINEER — 7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ for recv'd Renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

SITE UTILITY PLAN E

DRAWING NUMBER:

C3.04

MATCHLINE SHEET C3.02

MATCHLINE SHEET C3.03

MATCHLINE SHEET C3.06

130 LF 2"ø HDPE WATER SERVICE

INSTALL 2" GATE VALVE IN CONCRETE METER BOX. INSTALL BACKFLOW PREVENTION INSIDE BUILDING (SEE MECHANICAL) (AB)

SSCO
RIM: 39.15
6" INV (S): 34.16

UTILITY X-ING:
SD INVERT: 35.31±
SS CROWN: 34.76±
(0.55' VERTICAL SEPARATION)

EX. WEIGHT ROOM
FFE: 39.22

PROPOSED AG SCIENCE BUILDING (BID ALT-4)

SOLIDS INTERCEPTOR & 4"ø PIPING TO NEW BUILDING (SEE MECHANICAL)
RIM: 39.10 (AB)
INV ø INTERCEPTOR: 35.75

UTILITY X-ING:
SD INVERT: 35.44±
SS CROWN: 34.50±
(0.94' VERTICAL SEPARATION)

18 LF 6"ø PVC SDR 35 @ 1.00% MIN.

76 LF 6"ø PVC SDR 35 @ 1.00%

CONNECT TO 3" GATE VALVE (BASE BID) & INSTALL 3"x2" REDUCER

160 LF ¾"ø HDPE GAS SERVICE TO AG SCIENCE

EXTENTS OF ALTERNATE BID UTILITY WORK. ALL OTHER PROPOSED IMPROVEMENTS OUTSIDE OF THIS AREA SHALL BE INSTALLED PER BASE BID DRAWINGS. ALTERNATE BID BUILDING PERMITS TO BE OBTAINED AFTER SITE PERMITTING.

PROPOSED AQUACULTURE BUILDING (BID ALT-3)

INSTALL 3"x1.5" TEE AND 1.5" GATE VALVE IN CONCRETE METER BOX & 7 LF 1.5"ø HDPE WATER SERVICE W/ CAP & STAKE ❶ EXTENT. INSTALL BACKFLOW PREVENTION INSIDE BUILDING (SEE MECHANICAL)

SOLIDS INTERCEPTOR & PIPING TO NEW BUILDINGS (SEE MECHANICAL)

END 1½"ø GAS SERVICE, INSTALL TEE, VALVE & 90 LF ¾"ø GAS SERVICE TO AQUACULTURE

36 LF 1.5"ø HDPE WATER SERVICE W/ CAP & STAKE ❶ EXTENT. INSTALL BACKFLOW PREVENTION INSIDE BUILDING (SEE MECHANICAL)

INSTALL 3"x1.5" TEE AND 1.5" GATE VALVE IN METER BOX (AB)

PROPOSED GREENHOUSE BUILDING (BID ALT-2)

73 LF 1½"ø GAS SERVICE PARALLEL TO 1½"ø GAS SERVICE IN BASE BID

CONNECT TO 1½"ø GAS SERVICE, INSTALL VALE & 31 LF 1"ø GAS SERVICE TO GREENHOUSE

25' BUFFER

BURLINGTON NORTHERN RAILROAD

PROPOSED AUX GYM (BID ALT-1)

PROPOSED BUILDING
FFE: 39.50

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
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3. CONNECTION TO SEWER AND WATER MAINS FOR ALL EXISTING STRUCTURES WILL BE ESTABLISHED AND/OR VERIFIED FOR FINAL PROJECT AS-BUILTS.

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

N
W E
S
0 10 20 40
1 inch = 20 ft.

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

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1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK BEATTY
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION
ADD2	02/05/2021	ADDENDUM 2
CCD1	05/19/2021	CCD-001
CCD8	08/18/2021	CCD-008
CCD100	06/03/2021	CCD-100

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

SITE UTILITY PLAN
E
ALTERNATE

DRAWING NUMBER:

Cb3.04

00760.016 07/31/25 RH

MATCHLINE SHEET C3.03

MATCHLINE SHEET C3.06

SHUKSAN AVE.

VISTA DR.

GOLDEN EAGLE DR.

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

REMOVE EX. SSCO
EXISTING SEWER SI
REMOVE EXISTING
PIPING EAST OF TI

SSCO#21731
RIM=36.54

WV#21738
TOP=36.85
NUT=33.9

TP: 3902195581430000
#5805 MALLOY
AVENUE
CITY OF FERNDALE

LOT A
SPRING S.P.
AF#1264690 (V.2,
TP: 3902200071260000
#5798 MALLOY
AVENUE
BAME

LOT C
SPRING S.P.
AF#1264690 (V.2,
TP: 3902200181240000
#2083 SHUKSAN
AVENUE
MONFORE

LOT D
SPRING S.P.
AF#1264690 (V.2,
TP: 3902200231240000
#2083 SHUKSAN
AVENUE
MONFORE

LOT B
SPRING S.P.
AF#1264690 (V.2,
P.119)
TP: 3902200071210000
#5794 VISTA DRIVE
LORIMER

TP: 3902200271230000
#2078 COTTAGE PLACE
GEARHART

TP: 3902200331230000
#2074 COTTAGE PLACE
HARRISON

TP: 3902200401230000
#2068 COTTAGE PLACE
FURTADO

TP: 3902200491260000
#5797 GOLDEN EAGLE
DRIVE
GALLANT TRUST

TP: 3902200491210000
#5791 GOLDEN EAGLE
DRIVE
BROWN

TP: 3902200491120000
#5785 GOLDEN EAGLE
DRIVE
PRINCE

TP: 3902200491070000
#5781 GOLDEN EAGLE
DRIVE
PRINCE

SSMH#5608
RIM=49.39
IE N=42.5, 8"PVC
IE S=42.4, 8"PVC

SSMH#40450
RIM=48.42
IE N=39.9, 8"PVC
IE S=39.8, 8"PVC
IE W=40.0, 8"PVC

SSCO#40465
RIM=37.56
IE E=31.0, 8"PVC

SSMH#21336
RIM=35.06 AB
IE W=28.1, 15"PVC
IE S=28.0, 15"PVC
IE W=28.3, 8"PVC

WV#22776
TOP=34.92
NUT=33.0

SSMH#21226
RIM=35.38 AB
IE S=29.6, 15"PVC
IE NE=29.4, 15"P

SSMH#
34.93
IE N=27.3, 15"PVC
IE S=27.2, 15"PVC

WV#22572
TOP=34.66
NUT=31.9

WV#22777
TOP=34.46
NUT=33.5

SEWER AIR-RELIEF
VALVE VAULT

EXISTING WATE
REMOVED & SE
ABANDONED A
DEMOLITION OF

PUBLIC RIGHT OF WAY
DEDICATION ALONG EAST
SIDE OF GOLDEN EAGLE DR
PER AF# 2025-0600967

CAP & ABANDON EXISTING
SS SERVICE

CONNECT TO EXISTING GAS
MAIN, INSTALL NEW 4"
HDPE GAS MAIN TO
FERNDALE HIGH SCHOOL

CORE & CONNECT TO EXISTING
SSMH, RE-CHANNEL SSMH BASE
FOR FLOW FROM NEW CONNECTION.
NEW INV (E): 27.38 (AB)

CORE & CONNECT TO EXISTING
SSMH, RE-CHANNEL SSMH BASE
FOR FLOW FROM NEW CONNECTION.
NEW INV (E): 27.38 (AB)

ELECTRICAL CABINET
ELECTRICAL VAULT
ELECTRICAL BOX

101.47'

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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

N
W E
S

0 10 20 40
1 inch = 20 ft.

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
2. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES, AND NEW UPGRADES NEEDED TO COMPLY WITH CROSS-CONTAMINATION REGULATIONS WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
3. CONNECTION TO SEWER AND WATER MAINS FOR ALL EXISTING STRUCTURES WILL BE ESTABLISHED AND/OR VERIFIED FOR FINAL PROJECT AS-BUILTS.

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FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED
PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

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FOR

FERNDALE SCHOOL DISTRICT

AT

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Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

SITE UTILITY PLAN
SW

DRAWING NUMBER:

C3.05

00760.017 07/31/25 RH

MATCHLINE SHEET C3.04

MATCHLINE SHEET C3.05

GOLDEN EAGLE DR

BURLINGTON NORTHERN RAILROAD

193 LF 8"ø DI WATER MAIN

REMOVE EX. SSCO & CAP EXISTING SEWER SERVICE PIPE. REMOVE EXISTING SERVICE PIPING EAST OF THIS POINT

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

SSCO #21731
RIM=38.64
WV#21738
TOP=36.85
NUT=33.8

SSCO
RIM: 39.59 (AB)
4" INV (SE): 34.25
6" INV (SW): 34.25

8 LF 4"ø SDR35 PVC SS
4"ø SS INV @ BLD: 34.83
(SEE MECHANICAL FOR CONTINUATION)

SSCO
RIM: 39.46 (AB)
6" INV (NE): 33.66
6" INV (SE): 33.66

81 LF 6"ø PVC SS @ 0.75%

108 LF 6"ø PVC SS @ 2.22%

SSMH #21226
RIM=39.38 AB
IE S=29.6 15"PVC
IE NE=29.4 15"PVC

LOCATE & CONNECT TO EXISTING PRIVATE NATURAL GAS PIPING. MATCH EXISTING PIPE SIZE

SSCO
RIM: 39.05 (AB)
6" INV (NW): 31.36
6" INV (NE): 31.36

69 LF 6"ø PVC SS @ 1.11%

±165 LF TEMPORARY GAS PIPING TO EXISTING OLD MAIN BUILDING. REMOVE TEMPORARY PIPING AFTER DEMOLITION OF OLD MAIN BUILDING.

CONNECT TO EXISTING PRIVATE GAS PIPING & INSTALL VALVE FOR TEMPORARY SERVICE TO EXISTING OLD MAIN BUILDING.

LOCATE EXISTING CTE SEWER SERVICE & CONNECT TO NEW 8" PIPING, MATCH EX. SERVICE SIZE

SSMH #3
TYPE 3–48"
W/ RING & COVER
RIM: 35.81 (AB)
8" INV (S): 29.91 (AB)
8" INV (NW): 30.01 (AB)

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

INSTALL 6 LF 3" SEWER SERVICE. CONNECT DIRECTLY TO PRIVATE 8" PVC MAIN, INV @ BLD: 36" BFF. CAP & ABANDON AFTER DEMO OF OLD MAIN BOILER ROOM

INSTALL 77 LF 2" HDPE WATER SERVICE. REMOVE AFTER DEMO OF OLD MAIN BOILER ROOM

EXISTING WATER METER TO BE REMOVED & SERVICE TO BE ABANDONED AT MAIN AFTER DEMOLITION OF OLD MAIN BLDG

SSMH#21336
RIM=35.06 AB
IE N=28.1, 15"PVC
IE E=28.0, 15"PVC
IE W=28.3, 8"PVC

WV#22176
TOP=34.92
NUT=33.0

PUBLIC RIGHT OF WAY DEDICATION ALONG EAST SIDE OF GOLDEN EAGLE DR PER AF# 2025–0600967

ABANDON EXISTING SS SERVICE

TING GAS NEW 4" MAIN TO SCHOOL

NNECT TO EXISTING HANNEL SSMH BASE & NEW CONNECTION. INV (E): 27.38 (AB)

WV#22572
TOP=34.66
NUT=31.9

CORE & CONNECT TO EXISTING SSMH. RE–CHANNEL SSMH BASE FOR FLOW FROM NEW CONNECTION. NEW INV (E): 27.38 (AB)

WV#22777
TOP=34.46
NUT=33.5

SSMH#21337
RIM=34.97
IE N=27.3, 15"PVC
IE S=27.2, 15"PVC

292 LF 8"ø PVC SS @ 0.49%

SSMH#30759
RIM=34.93
IE NW=30.0, 8"PVC
IE SE=29.9, 8"PVC

24' Public water main easement AF# 2025-0600968

REMOVE EXISTING PRIVATE SEWER PIPING & STRUCTURES DOWNSTREAM FROM SSMH #2. CAP & ABANDON AT RIGHT OF WAY LINE.

NEW 8" PRIVATE SEWER SERVICE TO REPLACE EXISTING SEWER. MAINTAIN EXISTING SEWER FLOWS DURING INSTALLATION OF NEW PIPING.

INTERCEPT & CONNECT EXISTING 8" PVC SS TO SSMH #2. INSTALL INSIDE DROP CONNECTION TO FLOWLINE. ASSUMED EX 8" INV: 29.55 AB

SSMH #2
TYPE 3–48"
W/ RING & COVER
RIM: 34.90 (AB)
8" INV (W): 28.82 (AB)
8" INV (N): 29.05 (AB)
8" INV (E): 30.00 (AB)

PROPOSED BUILDING
FFE: 39.50

SSCO
RIM: 38.86 (AB)
4" INV (SE): 35.90
4" INV (NW): 35.90

8 LF 4"ø SDR35 PVC SS
4"ø SS INV @ BLD: 36.00
(SEE MECHANICAL FOR CONTINUATION)

8 LF 4"ø PVC SS @ 51.41%

347 LF 6"ø PVC SS @ 0.40%

CONTRACTOR TO COORDINATE WITH CITY TO VERIFY IF EXISTING METER & DCVA ARE SUITABLE FOR CONTINUED USE. REPLACE IF NEEDED.

36 LF 12"ø DI WATER MAIN

INSTALL:
(1) 12" 45° BEND [FLxFL]
(1) 12" 11.25° BEND [FLxFL]
(2) FLxMJ ADAPTER
& THRUST BLOCKS

INSTALL:
(1) 12" 45° BEND [FLxFL]
(1) 12" 11.25° BEND [FLxFL]
(2) FLxMJ ADAPTER
& THRUST BLOCKS

37 LF 12"ø DI WATER MAIN

RECONNECT EXISTING WATER SERVICES TO NEW MAIN & ADJUST STRUCTURE LIDS TO FINISH GRADE

INSTALL 1.5" WATER SERVICE & METER. (AB)
INSTALL 1.5" RPBA (WATTS LF909 SMALL OR EQUAL) IN ABOVE–GROUND HEATED ENCLOSURE (HUBBELL HOT BOX FIBERGLASS FLIP TOP OR EQUAL) (AB)
INSTALL 1.5"x2" REDUCER DOWNSTREAM FROM RPBA ASSEMBLY. (AB)

LOCATE & CONNECT TO EXISTING WATER MAIN, INSTALL:
(1) 8"x6" TEE [FLxFL]
(1) 12"x8" REDUCER [MJxFL]
(1) 8" GATE VALVE [FLxMJ] (AB)
(1) 8" FLxMJ ADAPTER
(1) 6" GATE VALVE [FLxMJ] (AB)
(1) FIRE HYDRANT ASSEMBLY (AB)
& THRUST BLOCK,
REMOVE EXISTING WATER MAIN PIPING NORTH OF THIS POINT

CONNECT PRIVATE WATER SERVICE PIPING TO EXISTING CTE & OLD MAIN BOILER ROOM, INSTALL 2"x2" TEE & (2) 2" VALVES. (SEE MECHANICAL FOR CONTINUATION INSIDE BUILDING), REMOVE EXISTING SERVICE PIPING AFTER DEMO OF OLD MAIN BOILER ROOM

24' Public water main easement AF# 2025-0600968

EXISTING BUILDING
~~(TO REMAIN)~~
EX. FFE: 35.65

CONNECT NEW PIPING TO EXISTING GAS METER, REPAIR EXISTING FENCING, PAVEMENT & MARKINGS AS NEEDED FOR INSTALLATION

REPLACE ±150 LF EXISTING GAS MAIN TO EXISTING METER, ASSUMED 3" HDPE. REMOVE EXISTING PIPING AFTER INSTALLATION OF NEW MAIN.

CONNECT TO EXISTING GAS SERVICE AND TRANSFER TO NEW 4" HDPE GAS MAIN. ABANDON EXISTING GAS SERVICE UPSTREAM FROM THIS POINT.

EXISTING WATER SERVICE TO THIS BUILDING COMES FROM EXISTING CTE BUILDING. BACKFLOW PREVENTER TO BE LOCATED DOWNSTREAM FROM NEW METER AT CTE.

EXISTING WATER SERVICE CUT & CAPPED DURING CONSTRUCTION

4" D.I. SERVICE TO FDC (SEE MECHANICAL FOR CONTINUATION & CHECK VALVE INSIDE BUILDING)

SSCO
RIM: 39.22 (AB)
6" INV (SE): 34.06
6" INV (NW): 34.06

24 LF 4"ø SDR35 PVC SS
4"ø SS INV @ BLD: 34.16
(SEE MECHANICAL FOR CONTINUATION)

21 LF 6"ø PVC SS @ 5.16%

BACKFILL SS TRENCH W/ CDF BETWEEN SSMH #5 & SSMH #6. MAINTAIN 5' MIN SEPARATION FROM FIRE SERVICE PIPING

SSMH #5
TYPE 3–48"
W/ RING & COVER
RIM: 38.60 (AB)
8" INV (SW): 32.00 (AB)
8" INV (N): 32.10 (AB)

405 LF 3" HDPE GAS SERVICE FROM METER TO GENERATOR PAD

24' Public water main easement AF# 2025-0600968

145 LF 4"ø DI RESTRAINED JOINT FIRE SERVICE

170 LF 12"ø DI WATER MAIN

INSTALL:
(1) 12"x6" TEE [MJxFL]
(1) 6" GATE VALVE [FLxMJ] (AB)
10 LF 6" D.I. WATER MAIN
(1) FIRE HYDRANT ASSEMBLY (AB)
& THRUST BLOCK

INSTALL:
(1) 12" 45° BEND [MJxMJ]
10 LF 12"ø D.I. WATER MAIN
& THRUST BLOCK

PROPOSED FIRE DEPARTMENT CONNECTION (AB). CHECK VALVE TO BE LOCATED INSIDE BUILDING (SEE MECHANICAL)

G C6.01

55 LF 12"ø DI WATER MAIN

INSTALL:
(1) 12" 45° BEND [MJxMJ]
& THRUST BLOCK

45° BUFFER

PROPOSED LIGHT. SEE ELECTRICAL FOR LOCATIONS, TYPE, SPECIFICATIONS, AND POWER (TYP.)

INSTALL:
(2) 12" 45° BENDS [MJxMJ]
14 LF 12"ø DI WATER MAIN
& THRUST BLOCKS

159 LF 12"ø DI WATER MAIN

24' WIDE EASEMENT ALONG NEW PUBLIC WATER MAIN PER AF# 2025–0600968 (TYP.)

1,135 LF 4"ø HDPE GAS SERVICE

EXISTING BACKFLOW PREVENTER INSIDE BUILDING

SEE MECHANICAL FOR CONTINUATION OF 3"ø HDPE GAS SERVICE

EXISTING BACKFLOW PREVENTER INSIDE BUILDING

INSTALL NEW PIPING AND GAS METER FOR SERVICE TO EXISTING WAREHOUSE. SEE MECHANICAL FOR CONNECTION LOCATION AT BUILDING. REPAIR EXISTING ASPHALT PAVEMENT AS NEEDED FOR INSTALLATION.

SIGN: NO PARKING FIRE LANE MOUNTED TO OVERHEAD DOOR

CONCRETE LOADING DOCK

GAS BOTTLE STORAGE

FF=35.58
WALK IN FREEZER
FF=35.57

FF=35.62

FF=35.64

FF=35.65

FF=35.78

FF=36.95

FF=39.63

SSMH#31148
RIM=35.38 AB
IE S=30.1, 8"PVC
IE SW=30.0, 8"PVC

W#31048
TOP=35.59
NUT=32.8

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

CITY OF FERNDALE NOTES:

1. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
2. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES, AND NEW UPGRADES NEEDED TO COMPLY WITH CROSS–CONTAMINATION REGULATIONS WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
3. CONNECTION TO SEWER AND WATER MAINS FOR ALL EXISTING STRUCTURES WILL BE ESTABLISHED AND/OR VERIFIED FOR FINAL PROJECT AS–BUILTS.

AS-BUILT DRAWING

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

N
W E
S

0 10 20 40
1 inch = 20 ft.

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net | 1716 West Marine View Drive
425.259.3161 (T) | 2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK BRATT
STATE OF WASHINGTON
16343
REGISTERED
PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

SITE UTILITY PLAN
SE

DRAWING NUMBER:

C3.06

AS-BUILT DRAWING

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

N
W E
S

0 10 20 40
1 inch = 20 ft.

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

MALLOY AVE.

ROTHAUSEN

SUMP=78.8

5' UTILITIES EASEMENT AS CREATED ON "MEMORIAL HEIGHTS" AF#2050902399

LOT B
MEMORIAL HEIGHTS LLA
AF#2050902399
TP: 3902200082550000
#5894 MALLOY AVENUE
GRINDELL / SOWERS

LOT A
MEMORIAL HEIGHTS LLA
AF#2050902399
TP: 3902200082480000
#5890 MALLOY AVENUE
MEYER

5' UTILITIES EASEMENT AS CREATED ON "MEMORIAL HEIGHTS" AF#2050902399

SDCB#39579
RIM=82.51
IE W=81.7, 6"UNK

12" LANDSCAPE BLOCK WALL

LOT 3
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200122410000
#5886 MALLOY AVENUE
RESKUSICH

12" CONCRETE RETAINING WALL

SDCB#39647
RIM=80.81
IE N=79.8, 8"CPP
IE S=79.7, 8"CPP
SUMP=79.7

TP: 3902195542380000
#5881 MALLOY AVENUE
WHEELER

6" CONCRETE RETAINING WALL

LOT 4
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200142330000
#5880 MALLOY AVENUE
PATTERSON

LANDSCAPE BLOCK WALL

6" CONCRETE RETAINING WALL

SDCB#39535
RIM=79.51
IE N=77.5, 8"CPP
IE S=77.5, 8"CPP
SUMP=77.2

N.10' LOT 5

TP: 3902195542290000
#5873 MALLOY AVENUE
HARVEY

OUTFALL NOT FOUND

SDCULV#29694
IE=67.6, 10"STEEL

CONC. BLOCK HEADWALL

SDCB#39515
RIM=78.29
IE E=74.2, 12"CONC
IE W=74.2, 12"CONC
SUMP=75.3
HOLE PUNCHED 70% FULL OF PIPE

SDOUTFALL#39420
IE=74.0, 12"CMP
6" CONC. WALL

TP: 3902195542230000
NO STREET ADDRESS
HARVEY

6" CONC. WALL

LOT 6
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200122210000
#5870 MALLOY AVENUE
MILLER

6" CONC. WALL

6" CONC. WALL

LOT 7
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112140000
#5862 MALLOY AVENUE
HERNANDEZ

SDCULV#10038
IE=75.6, 6"PVC
5' UTILITY EASEMENT AS CREATED ON HULSMAN S.P. AF#2016-0701626

SDCB#10037
RIM=76.53
IE N=74.6, 6"PVC
IE S=74.7, 6"PVC
IE W=74.7, 6"PVC
SUMP=74.6

5' UTILITY EASEMENT AS CREATED ON HULSMAN S.P. AF#2016-0701626

S.1'-2" LOT 7, MEMORIAL HEIGHTS

12" LANDSCAPE BLOCK WALL

12" LANDSCAPE BLOCK WALL

LOT 8
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112080000
#5858 MALLOY AVENUE
GAULT

N.53' LOT 8, MEMORIAL HEIGHTS

1325.69'
N01°14'51"E

5' STORMWATER EASEMENT AS SHOWN ON HULSMAN S.P. AF#2016-0701626

24' ACCESS EASEMENT IN FAVOR OF LOT A, LOT B & PARCEL A AS CREATED BY AF#2050902399 & AF#2034020097

MALLOY AVE.

SDCB#23898
RIM=55.81
IE N=54.3, 6"PVC
SUMP=53.7

RIM=58.41
IE E=55.3, 24"PVC
IE W=55.4, 24"DI
SUMP=54.5

SDOUTFALL#8797
IE=51.2, 18"CPP

SDOUTFALL#8797
IE=51.2, 18"CPP

20' WIDE EASEMENT AT EXISTING PUBLIC STORM DRAIN FACILITY PER AF# 2025-0600969 (TYP.)

STORMWATER DETENTION FACILITY AF#9501090434

STORMWATER DETENTION EASEMENT IN FAVOR OF THE CITY OF FERNDALE AF#9501090434

SDMH#24551
RIM(COLLAR)=60.36
IE E=54.6, 18"CPP
GRAVEL SUMP=54.6

STORAGE CONTAINER

WOOD SHED

FF=57.94

SDCB#23946
RIM=56.02
IE S=55.0, 4"PVC
SUMP=51.6

SDCB#24411
RIM=55.66
IE SE=54.2, 6"CONC
SUMP=54.1

WOOD LEAN-TO

72" DOOR

WOOD ADDITION

144" OVERHEAD DOOR
SHOP

144" OVERHEAD DOOR
FF=56.12

144" OVERHEAD DOOR

36"DOOR

SDCB#40256
RIM=53.74
IE SW=52.8, 4"PVC
IE SE=52.7, 6"PVC
SUMP=50.2

AIR CONDITIONING UNIT ON CONC. PAD

FF=54.30

RAILROAD TIE WALL

36"DOOR
AWNING OVER ENTRY

36"DOOR
AWNING OVER ENTRY

ALUMINUM SIDED FERNDALE SCHOOL DIST. DEPOT BUILDING

SHED

ECO-BLOCK WALL

STORAGE

MATERIALS

OVERHEAD

CAVE LINE

ALUMINUM SIDED FERNDALE SCHOOL DIST. DEPOT BUILDING

10' WIDE PUGET SOUND ENERGY EASEMENT AF#2080403983 (LOCATED AS CONSTRUCTED)

FF=54.26

SDCB#40420
RIM=53.22
IE NE=51.9, 6"PVC
SUMP=49.6

SDCB#24222
RIM=51.94 (SOLID LID)
BOTTOM OF VERT. PIPE=42.6, 15"CMP
SUMP=48.3 (FILLED WITH DIRT)

±225 LF 4"ø PE BACK-OF-WALL D TO NEARBY ST CATCH BASINS

SDCB#23312
RIM=44.19
IE SE=42.2, 8"CMP
SUMP=41.5

IE NW=40.5, 8"CMP
IE E=40.4, 8"CMP
SUMP=39.0

CONCRETE BLOCK PROTECTIVE BARRICADE

RIM:
8" INV

CONNECT DOWNSPOUT TO SDCB #F17

SDCB #F17
TYPE 1 W/ FRAME & GRATE
RIM: 45.05 (AB)
8" INV (S): 41.95 (AB)

47 LF 8"ø SDR35 PVC SD @ 3.72%

SDCB #F4
TYPE 1 W/ FRAME & ADA GRATE
RIM: 41.36 (AB)
8" INV (E): 37.76 (AB)

178 LF 8"ø SDR35 PVC SD @ 1.74%

CONNECT DOWNSPOUT DIRECTLY TO 8"ø PVC SD COLLECTOR PIPING

±270 LF 4"ø PERFORATED PVC BACK-OF-WALL DRAIN, CONNECT TO NEARBY STORM DRAINS OR CATCH BASINS AS AVAILABLE

SDCB #F7
TYPE 1 W/ FRAME & ADA GRATE
RIM: 41.69 (AB)
8" INV (S): 39.29 (AB)

CONNECT DOWNSPOUT DIRECTLY TO 8"ø PVC SD COLLECTOR PIPING

SDCB #F6.1
TYPE 1 W/ ADA GRATE
RIM: 41.61 (AB)
8" INV (N): 39.11 (AB)
8" INV (S): 39.11 (AB)

23 LF 8"ø SDR35 PVC SD @ 0.59%

CONNECT DOWNSPOUT DIRECTLY TO 8"ø PVC SD COLLECTOR PIPING

SDCB #F6
TYPE 1 W/ ADA GRATE
RIM: 41.61 (AB)
8" INV (S): 38.96 (AB)
8" INV (N): 38.97 (AB)

9 LF 8"ø SDR35 PVC SD @ 16.78%

REMOVE & REPLACE 8" SD WEST OF THIS CB, CONNECT NEW PIPE TO DETENTION SYSTEM BENEATH FOOTBALL FIELD

SDCB #F16
TYPE 1 W/ FRAME & GRATE
RIM: 42.35 (AB)
8" INV (W): 38.95 (AB)
8" INV (E): 38.70 (AB)
12" INV (S): 38.42 (AB)
8" INV (N): 38.85 (AB)

97 LF 12"ø PVC SD @ 1.57%

CONNECT DOWNSPOUT DIRECTLY TO 12"ø PVC SD

SDCB #F19
TYPE 1 W/ SOLID LID
RIM: 41.10 (AB)
12" INV (N): 37.05 (AB)
12" INV (E): 36.95 (AB)

11 LF 12"ø CPP SD @ 2.44%

SDCB #F13
TYPE 1 W/ FRAME & GRATE
RIM: 40.33 (AB)
12" INV (E): 37.50 (AB)

11 LF 12"ø CPP SD @ 1.01%

LF 12"

MATCHLINE SHEET C4.02

MATCHLINE SHEET C4.03

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
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1716 West Marine View Drive
2nd Floor / Everett, WA 98201

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Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16341
REGISTERED PROFESSIONAL ENGINEER
10/2/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: for ICC via Bluebeam
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORM DRAIN NW

DRAWING NUMBER:

C4.01

00760.018 07/31/25 RH

00760.019 07/31/25 RH

AS-BUILT DRAWING

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

20' WIDE EASEMENT ALONG EXISTING PUBLIC STORM DRAIN PER AF# 2025-0600969 (TYP.)

FRENCH DRAIN AT TOE OF SLOPE ALONG ALL CUT SLOPES AROUND TRACK (TYP.)

2955 LF FRENCH DRAIN & 8"ø PERFORATED PIPE, CONNECT TO DETENTION SYSTEM BENEATH FOOTBALL FIELD.

SDCO (TYP.)

±225 LF 4"ø PERFORATED PVC BACK-OF-WALL DRAIN, CONNECT TO NEARBY STORM DRAINS OR CATCH BASINS AS AVAILABLE

SDCO
RIM: 41.00 (AB)
8" INV (SW): 38.50

42 LF 8"ø SDR35 PVC SD @ 5.96%

CONNECT TO UNDERGROUND DETENTION SYSTEM, 8" INV: 36.00

CREATE SPACE WITHIN ADS STORMTECH DETENTION PIPING TO ACCOMMODATE FOOTBALL GOALPOST FOOTING

SDCO
RIM: 43.97 (AB)
8" INV (E): 37.00

CONNECT BACK-OF-WALL DRAINS TO UNDERGROUND DETENTION SYSTEM, 8" INV: 36.00

68 LF 8"ø SDR35 PVC SD @ 1.47%

INSTALL 15 LF TRENCH DRAIN WITH DUCTILE IRON ADA GRATE (ACO H100KS-8 OR SIMILAR), RIM: 41.02 (AB)
CONNECT OUTLET DIRECTLY TO 8" SD WITH 4" SDR35 PVC & INSERTA TEE

CONNECT DOWNSPOUT TO SDCB #F17

SDCB #F17
TYPE 1 W/ FRAME & GRATE
RIM: 45.05 (AB)
8" INV (S): 41.95 (AB)

47 LF 8"ø SDR35 PVC SD @ 3.72%

SDCB #F4
TYPE 1 W/ FRAME & ADA GRATE
RIM: 41.36 (AB)
8" INV (E): 37.76 (AB)

178 LF 8"ø SDR35 PVC SD @ 1.74%

CONNECT TO UNDERGROUND DETENTION SYSTEM, 8" INV: 36.00

CONNECT DOWNSPOUT DIRECTLY TO 8"ø PVC SD COLLECTOR PIPING

±270 LF 4"ø PERFORATED PVC BACK-OF-WALL DRAIN, CONNECT TO NEARBY STORM DRAINS OR CATCH BASINS AS AVAILABLE

SDCB #F7
TYPE 1 W/ FRAME & ADA GRATE
RIM: 41.69 (AB)
8" INV (S): 39.29 (AB)

CONNECT DOWNSPOUT DIRECTLY TO 8"ø PVC SD COLLECTOR PIPING

SDCB #F6.1
TYPE 1 W/ ADA GRATE
RIM: 41.61 (AB)
8" INV (N): 39.11 (AB)
8" INV (S): 39.11 (AB)

23 LF 8"ø SDR35 PVC SD @ 0.59%

CONNECT DOWNSPOUT DIRECTLY TO 8"ø PVC SD COLLECTOR PIPING

SDCB #F6
TYPE 1 W/ ADA GRATE
RIM: 41.61 (AB)
8" INV (S): 38.96 (AB)
8" INV (N): 38.97 (AB)

9 LF 8"ø SDR35 PVC SD @ 16.78%

6"ø SDR35 DOWNSPOUT COLLECTOR PIPING @ 1% MIN, TIE DIRECTLY TO UNDERGROUND DETENTION SYSTEM (TYP.)

PROPOSED GRANDSTAND

40 LF 8"ø SDR35 PVC SD @ 0.51%

SDCB #F5
TYPE 1 W/ ADA GRATE
RIM: 41.56 (AB)
8" INV (W): 38.76 (AB)
8" INV (S): 39.00 (AB)
8" INV (N): 38.76 (AB)

19 LF 8"ø SDR35 PVC SD @ 0.32%

REMOVE & REPLACE 8" SD WEST OF THIS CB. CONNECT NEW PIPE TO DETENTION SYSTEM BENEATH FOOTBALL FIELD.

SDCB #F16
TYPE 1 W/ FRAME & GRATE
RIM: 42.35 (AB)
8" INV (W): 38.95 (AB)
8" INV (E): 38.70 (AB)
12" INV (S): 38.42 (AB)
8" INV (N): 38.85 (AB)

87 LF 12"ø CPP SD @ 1.57%

CONNECT DOWNSPOUT DIRECTLY TO 12"ø PVC SD

SDCB #F19
TYPE 1 W/ SOLID LID
RIM: 41.10 (AB)
12" INV (N): 37.05 (AB)
12" INV (E): 36.95 (AB)

11 LF 12"ø CPP SD @ 2.44%

SDCB #F9
TYPE 1 W/ FRAME & ADA GRATE
RIM: 41.59 (AB)
8" INV (S): 36.74 (AB)
12" INV (NE): 36.54 (AB)
12" INV (W): 36.69 (AB)

48 LF 8"ø SDR35 PVC SD @ 0.37%

SDCB #F13
TYPE 1 W/ FRAME & GRATE
RIM: 40.33 (AB)
12" INV (E): 37.50 (AB)

11 LF 12"ø CPP SD @ 1.01%

SDCB #F11
TYPE 1 W/ FRAME & ADA GRATE
RIM: 41.47 (AB)
8" INV (N): 36.92 (AB)
8" INV (S): 37.07 (AB)

MATCHLINE SHEET C4.01

MATCHLINE SHEET C4.04

FOOTBALL FIELD ADS STORMTECH STORMWATER DETENTION FACILITY: (94,500 CF LIVE STORAGE & 12" SEDIMENT STORAGE DEPTH)
TOP OF PERMEABLE BALLAST: 38.00
TOP OF LIVE STORAGE: 37.50
BOTTOM OF LIVE STORAGE: 35.50
BOTTOM OF PERMEABLE BALLAST: 34.00
(A C6.05)

4"ø PERFORATED PVC PERIMETER DRAIN AROUND DETENTION FACILITY. TIE INTO 18" CPP SD PIPE DOWNSTREAM FROM CONTROL STRUCTURE & TREATMENT VAULT.

SDCB #F2
TYPE 2-60" W/ RING & COVER & CONTROL STRUCTURE RISER
RIM: 41.00 (AB)
18" INV (NW): 34.95 (AB)
18" INV (E): 35.43 (AB)
(B C6.05)

21 LF 18"ø CPP SD @ 0.42%

STORMWATER TREATMENT VAULT MWS-L-4-8-V (OR EQUAL)
RIM: 39.15 (AB)
18" INV IN (W): 35.34
18" INV OUT (E): 34.84
(C C6.05)

54 LF 18"ø CPP SD @ 0.35%

SDCB #F1
TYPE 2-48" W/ RING & COVER
RIM: 39.29 (AB)
12" INV (S): 35.00 (AB)
18" INV (E): 34.65 (AB)
18" INV (W): 34.65 (AB)

112 LF 18"ø CPP SD @ 0.40%

15 LF 18"ø CPP SD @ 0.33%

SDCB #F18
TYPE 2 W/ SOLID LID
RIM: 37.70 (AB)
18" INV (W): 34.20 (AB)
18" INV (SE): 34.15 (AB)
8" INV (N): 34.30 (AB)

REMOVE & REPLACE EXISTING 12" PIPE TO OUTFALL. RETAIN & REUSE EXISTING CONCRETE HEADWALL AT STORM OUTFALL. CORE AS NEEDED TO ACCOMMODATE NEW PIPE. ALL WORK SHALL REMAIN OUTSIDE OF THE ORDINARY HIGH WATER MARK (OHWM) IN SCHELL DITCH. DISTURBANCE WITHIN THE OHWM IS PROHIBITED. (E C6.11)

INSTALL AREA DRAIN WITH ADA-COMPLIANT GRATE
RIM: 38.97

4"ø SDR35 PVC @ 1.0% MIN. FROM AREA DRAINS TO SDCB

UNDERGROUND DETENTION SYSTEM OUTLET
18" INV: 35.30

EXISTING CBs & SD PIPING TO BE REMOVED WITHIN FOOTBALL FIELD & GRANDSTAND PLAZA

CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 36.00

SDCB#30591 RIM=38.81 IE NE=37.7, 6"PVC IE NE=37.7, 6"PVC IE W=37.7, 6"PVC SUMP=36.7

SDCB#30516 RIM=38.80 IE SW=37.8, 6"PVC SUMP=36.2

SDCB#24222 RIM=51.94 (SOLID LID) BOTTOM OF VERT. PIPE=42.6, 15"CMP SUMP=48.3 (FILLED WITH DIRT)

SDCB#23312 RIM=44.19 IE SE=42.2, 8"CMP SUMP=41.5

SDCB#26564 RIM=37.12 IE N=35.3, 8"CPP IE SE=35.2, 12"UNK IE SW=35.2, 4"CPP SUMP=35.0 (DOUBLE GRATE CONC HEADWALL)

SDCB#26577 RIM=36.75 IE N=35.0, 4"CPP IE N=34.5, 12"UNK IE S=34.9, 8"CPP SUMP=37.2

SDCB#26577 RIM=35.88 IE N=34.3, 8"CPP IE SE=34.3, 12"DI IE W=34.3, 12"CPP SUMP=33.6 (CONC HEADWALL)

SDOUTFALL#38081 IE=35.1, 12"CPP

SDOUTFALL#38150 IE=34.1, 12"CPP

SDCB#27187 RIM=43.79 IE S=40.7, 12"CPP SUMP=39.0

SDCB#24222 RIM=51.94 (SOLID LID) BOTTOM OF VERT. PIPE=42.6, 15"CMP SUMP=INACCESSIBLE

SDOUTFALL#38081 IE=44.5, 12"CPP

SDCB#26577 RIM=47.89 (W/BEEHIVE GRATE) IE N=44.6, 12"CPP IE E=44.46, 12"PVC IE E=44.9, 12"CMP IE W=44.8, 12"PVC SUMP=41.8

STORMWATER DETENTION FACILITY AF#9501019034

WATER DETENTION EASEMENT R OF THE CITY OF FERNDALE AF#9501019034

IRRIGATION PIPE STORAGE

25' BUFFER

BURLINGTON NORTHERN RAILROAD

ENGINEER'S CERTIFICATION:

"I, HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

CITY OF FERNDALE NOTES

1. ALL STORM DRAIN PIPE SHALL HAVE A MINIMUM OF TWO FEET OF COVER IN PAVED OR DRIVABLE AREAS OR ALTERNATIVE OPTIONS WILL BE PROVIDED.
2. ALL UNUSED EXISTING STORM INFRASTRUCTURE AND/OR CONVEYANCE SYSTEMS WILL BE ABANDONED APPROPRIATELY AS DIRECTED BY THE ENGINEER OF RECORD.
3. ENGINEER OF RECORD OR THEIR DESIGNEE SHALL INSPECT INSTALLATION, SOILS, AND GRAVELS USED TO CONSTRUCT ALL BIORETENTION CELLS AND UNDERGROUND DETENTION AREAS. CITY INSPECTORS WILL INSPECT ALL STRUCTURES AND CONNECTIONS TO THE FIELDS AND WILL DOCUMENT AND/OR PICTURE CONSTRUCTION FOR CITY RECORDS ONLY. HOWEVER, THE ENGINEER OF RECORD WILL CERTIFY ALL FIELDS PRIOR TO FINAL CITY APPROVAL. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER OF RECORD OR THEIR DESIGNEE TO PROVIDE THE INSPECTION PROCESS REQUIRED TO PROVIDE SAID CERTIFICATION.
4. ALL STORMWATER MANAGEMENT FACILITIES SHALL BE MARKED AND LOCATED APPROPRIATELY BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION.

N W E S

0 10 20 40
1 inch = 20 ft.

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net | 1716 West Marine View Drive
425.259.3161 (T) | 2nd Floor / Everett, WA 98201

CONSULTANT:
220 West Champion Street, Suite 200 | t: 360.650.1408
Bellingham, WA 98225 | f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:
MICHAEL DIRK HEATH · STATE OF WASHINGTON · 16343 · REGISTERED PROFESSIONAL ENGINEER · 7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

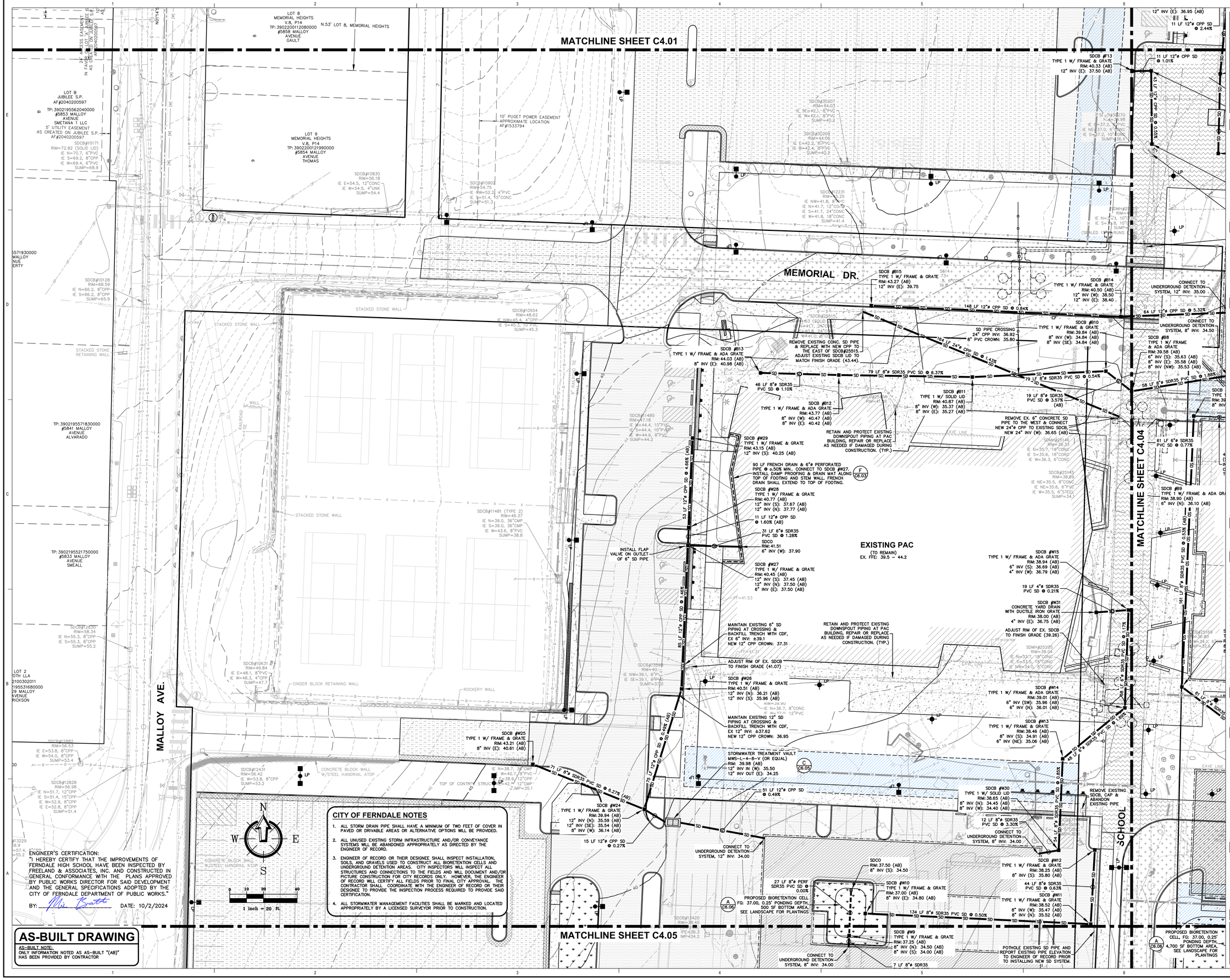
APPROVED
07/31/2025
BY: _____ FOR ICE VIA RON2
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORM DRAIN PLAN NE

DRAWING NUMBER:

C4.02



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BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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

00760.020 07/31/25 RH

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1716 West Marine View Drive
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FREELAND & ASSOCIATES

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10/2/2024

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2019-016

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PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ FOR KEVIN REMZ
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORM DRAIN PLAN W

DRAWING NUMBER:

C4.03

MATCHLINE SHEET C4.02

MATCHLINE SHEET C4.03

MATCHLINE SHEET C4.06

EX. WEIGHT ROOM
FFE: 39.22

PROPOSED BUILDING
FFE: 39.50

BURLINGTON NORTHERN RAILROAD

SCHOOL

SDCB #F13 TYPE 1 W/ FRAME & GRATE RIM:40.33 (AB) 12" INV (E): 37.50 (AB)

11 LF 12"ø CPP SD @ 2.44%

48 LF 8"ø SDR35 PVC SD @ 0.37%

SDCB #F11 TYPE 1 W/ FRAME & ADA GRATE RIM:41.47 (AB) 8" INV (N): 36.92 (AB) 8" INV (S): 37.07 (AB)

SDCB #F14 TYPE 1 W/ FRAME & GRATE RIM: 40.74 (AB) 12" INV (W): 37.39 (AB) 12" INV (S): 37.44 (AB)

47 LF 8"ø SDR35 PVC SD @ 0.59%

SDCB #F12 TYPE 1 W/ FRAME & ADA GRATE RIM:41.45 (AB) 8" INV (N): 37.35 (AB)

SDCB #F15 TYPE 1 W/ SOLID LID INSTALL INLINE WITH EXISTING 8" PVC SD RIM:41.08 (AB) 8" INV (S): 37.22 12" INV (N): 37.20

ADJUST EXISTING SDCB RIM TO MATCH FINISH GRADE (41.40) & INSTALL SOLID LID, CAP & REMOVE EXISTING PIPING & CBs TO THE NORTHEAST OF THIS POINT.

ADJUST EXISTING SDCB RIM TO MATCH FINISH GRADE (41.15 AB) & INSTALL SOLID LID

SDCB #B14 TYPE 1 W/ FRAME & GRATE RIM:40.50 (AB) 12" INV (W): 38.50 12" INV (E): 38.40

CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 35.00

64 LF 12"ø CPP SD @ 5.32%

CONNECT TO UNDERGROUND DETENTION SYSTEM, 8" INV: 34.50

SDCB #B10 TYPE 1 W/ FRAME & GRATE RIM:39.84 (AB) 8" INV (W): 34.84 (AB) 8" INV (SE): 34.84 (AB)

SDCB #B8 TYPE 1 W/ FRAME & ADA GRATE RIM:39.58 (AB) 8" INV (S): 35.63 (AB) 8" INV (E): 35.58 (AB) 8" INV (NW): 35.53 (AB)

58 LF 8"ø SDR35 PVC SD @ 1.85%

8"ø SDR35 PVC SD @ 0.54%

8"ø SDR35 PVC SD @ 3.57% (AB)

SDCB #C17 TYPE 1 W/ SOLID LID RIM:39.37 (AB) 8" INV (S): 36.62 (AB)

5 LF 12"ø CPP SD @ 8.10%

5 LF 12"ø CPP SD @ 18.00%

5 LF 12"ø CPP SD @ 12.00%

5 LF 8"ø SDR35 PVC SD @ 12.60%

CONCRETE SD T & CONNECT XISTING SDCB,): 36.65 (AB)

61 LF 6"ø SDR35 PVC SD @ 0.77%

CONNECT 6" DOWNSPOUT TO SDCO

4" ROOF DRAIN, INV @ BLD: 37.00 (SEE MECHANICAL FOR CONTINUATION INSIDE BUILDING). INSTALL WYE, CLEANOUT & 15 LF 6"ø SDR35 PVC TO SDCB #C17.

SDCB #B9 TYPE 1 W/ FRAME & ADA GRATE RIM: 38.90 (AB) 6" INV (N): 36.10 (AB)

CONNECT FOOTING DRAINS & 6"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPING TO SDCB (TYP.)

SDCB #B5 TYPE 1 W/ ROLLED FRAME & GRATE RIM:38.51 (AB) 12" INV (N): 34.41 (AB)

SDCB #B6 TYPE 1 W/ ROLLED FRAME & GRATE RIM:38.55 (AB) 12" INV (N): 34.90 (AB)

6"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPING (TYP.)

SDCB #B5 TYPE 1 W/ ROLLED FRAME & GRATE RIM:38.75 (AB) 12" INV (N): 34.60 (AB)

BUS LOOP ADS STORMTECH STORMWATER DETENTION FACILITY: (47,600 CF LIVE STORAGE & 12" SEDIMENT STORAGE DEPTH)
TOP OF PERMEABLE BALLAST: 37.00
TOP OF LIVE STORAGE: 36.50
BOTTOM OF LIVE STORAGE: 34.50
BOTTOM OF PERMEABLE BALLAST: 33.00

4"ø PERFORATED PVC PERIMETER DRAIN AROUND DETENTION FACILITY. TIE INTO 18" CPP SD PIPE DOWNSTREAM FROM CONTROL STRUCTURE.

SDCB #B4 TYPE 1 W/ ROLLED FRAME & GRATE RIM: 38.78 (AB) 8" INV (N): 34.63 (AB)

INSTALL AREA DRAIN WITH ADA-COMPLIANT GRATE RIM: 38.97

4"ø SDR35 PVC @ 1.0% MIN. FROM AREA DRAINS TO SDCB

INSTALL AREA DRAIN WITH ADA-COMPLIANT GRATE RIM: 38.97

INSTALL AREA DRAIN WITH ADA-COMPLIANT GRATE RIM: 39.00

INSTALL AREA DRAIN WITH ADA-COMPLIANT GRATE RIM: 39.00

SDCB #F3 TYPE 1 W/ FRAME & GRATE RIM: 38.85 (AB) 12" INV (N): 35.45 (AB)

71 LF 6"ø SDR35 PVC SD @ 0.61%

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BY: _____ DATE: 10/2/2024

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4. ALL STORMWATER MANAGEMENT FACILITIES SHALL BE MARKED AND LOCATED APPROPRIATELY BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION.

TO OUTFALL. RETAIN & REUSE EXISTING CONCRETE HEADWALL AT STORM OUTFALL. CORE AS NEEDED TO ACCOMMODATE NEW PIPE. ALL WORK SHALL REMAIN OUTSIDE OF THE ORDINARY HIGH WATER MARK (OHWM) IN SCHELL DITCH. DISTURBANCE WITHIN THE OHWM IS PROHIBITED. (E C6.11)

SDCB #B3 TYPE 1 W/ FRAME & GRATE RIM: 38.55 (AB) 8" INV (S): 36.00 (AB)

SDCB #B1 TYPE 2–60" W/ RING & COVER & CONTROL STRUCTURE RISER RIM: 39.34 (AB) 18" INV (W): 34.04 (AB) 18" INV (E): 34.14 (AB) (B C6.05)

12 LF 18"ø CPP SD @ 2.17%

45 LF 8"ø SDR35 PVC SD @ 0.00%

SDCB #B19 TYPE 2–54" W/ RING & COVER RIM: 39.07 (AB) 18" INV (W): 33.77 (AB) 18" INV (E): 33.67 (AB) 8" INV (N): 34.52 (AB)

51 LF 18"ø CPP SD @ 0.06%

13 LF 18"ø CPP SD @ 0.96%

STORMWATER TREATMENT VAULT MWS–L–4–8–V (OR EQUAL) RIM: 39.28 18" INV IN (W): 34.40 18" INV OUT (E): 33.90

55 LF 8"ø SDR35 PVC SD @ 1.45%

62 LF 18"ø CPP SD @ 0.58%

25' BUFFER

INSTALL 22 LF STORMWATER DISPERSION TRENCH. TOP OF TRENCH EL: 33.80 (SET LEVEL). ALL WORK SHALL REMAIN OUTSIDE OF THE ORDINARY HIGH WATER MARK (OHWM) IN SCHELL DITCH. DISTURBANCE WITHIN THE OHWM IS PROHIBITED. (D C6.11)

INSTALL AREA DRAIN RIM: 39.39 CONNECT TO DOWNSPOUT COLLECTOR PIPE WITH 4"ø SDR35 PVC

WA/SD CROSSING FG: 40.00 6" WA INV: 36.50 18" CPP SD CROWN: 35.84

SS/SD CROSSING 18" CPP SD INV: 34.25 4"ø PVC SS CROWN: 33.84

SDCB #B2 TYPE 1 W/ FRAME & GRATE RIM: 38.46 (AB) 8" INV (N): 35.11 (AB) 8" INV (SE): 35.06 (AB)

UNDERGROUND DETENTION SYSTEM OUTLET 18" INV: 34.40

SDCB #B16 TYPE 1 W/ SOLID LID RIM: 39.28 (AB) 6" INV (SE): 33.68 (AB)

6"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPING, TIE DIRECTLY TO SDCB #B16.

CONNECT WATER VAULT SUMP PUMPS TO SDCB #B18, INSTALL (2) ±68 LF 1.5" HDPE

78 LF 6"ø SDR35 PVC SD @ 0.44%

SDCB #B18 TYPE 1 W/ FRAME & GRATE RIM: 37.94 (AB) 6" INV (NW): 33.34 (AB) 12" INV (S): 33.34 (AB)

114 LF 12"ø CPP SD @ 0.44%

43 LF 6"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPING, TIE DIRECTLY TO 12"ø CPP SD PIPING WITH INSERTA-TEE

SDCB #C9 TYPE 1 W/ FRAME & GRATE RIM: 38.42 (AB) 8" INV (W): 34.82 (AB) 12" INV (S): 34.47 (AB) 8" INV (E): 34.77 (AB)

CONNECT FOOTING DRAINS TO SDCB #C10

CONNECT FOOTING DRAINS TO SDCB #C9

SDCB #C10 TYPE 1 W/ FRAME & GRATE RIM: 38.58 (AB) 8" INV (E): 35.53 (AB) 8" INV (NW): 35.48 (AB)

SDCB #C16 TYPE 1 W/ SOLID LID RIM: 39.27 (AB) 8" INV (N): 35.77 (AB) 8" INV (SE): 35.82 (AB)

71 LF 8"ø SDR35 PVC SD @ 1.00%

57 LF 8"ø SDR35 PVC SD @ 1.70%

15 LF 12"ø CPP SD @ 3.16%

CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 34.00

REMOVE EXISTING SDCB, CAP & ABANDON EXISTING PIPE

54 LF 8"ø SDR35 PVC SD @ 0.63%

6"ø SDR35 DOWNSPOUT COLLECTOR PIPING TO SDCB (TYP.)

SDCB #C15 TYPE 1 W/ FRAME & ADA GRATE RIM: 38.81 (AB) 8" INV (SE): 35.36 (AB)

CONNECT FOOTING DRAINS & 6"ø SDR35 DOWNSPOUT COLLECTOR PIPING TO SDCB (TYP.)

46 LF 8"ø SDR35 PVC SD @ 1.00%

SDCB #C11 TYPE 1 W/ ADA GRATE RIM: 38.74 (AB) 8" INV (W): 35.74 (AB)

CONNECT DOWNSPOUTS FROM COVERED WALKWAY TO SDCB #C12, 6"ø SDR35 PVC @ 1% MIN.

CONNECT TO UNDERGROUND DETENTION SYSTEM, 6" INV: 34.00

SDCB #C12 TYPE 1 W/ FRAME & ADA GRATE RIM: 39.21 (AB) 6" INV (E): 36.50

SDCB #C18 TYPE 1 W/ SOLID LID RIM: 39.39 (AB) 12" INV (E): 34.20

57 LF 12" CPP SD @ 0.57%

48 LF 8"ø SDR35 PVC SD @ 0.61%

SDCB #C14 TYPE 1 W/ FRAME & ADA GRATE RIM: 38.96 (AB) 8" INV (NE): 35.16 (AB)

CONNECT DOWNSPOUT TO 6" PVC TO SDCB

33 LF 6"ø SDR35 PVC SD @ 2.77%

SDCB #C8 TYPE 1 W/ FRAME & ADA GRATE RIM: 38.65 (AB) 8" INV (SW): 34.80 8" INV (NW): 34.90 6" INV (N): 34.85

38 LF 8"ø SDR35 PVC SD @ 0.77%

SDCB #C13 TYPE 1 W/ FRAME & ADA GRATE RIM: 38.61 (AB) 12" INV (W): 34.41 (AB) 8" INV (E): 34.56 (AB) 8" INV (NE): 34.51 (AB)

SDCB #C7 TYPE 1 W/ FRAME & ADA GRATE RIM: 38.65 (AB) 8" INV (W): 34.85 (AB) 8" INV (SW): 34.90 (AB)

33 LF 8"ø SDR35 PVC SD @ 0.79%

28 LF 3"ø SDR35 PVC @ 2% MIN. TO SDCB. INV @ BUILDING: 37.50. SEE MECHANICAL FOR CONTINUATION.

PROPOSED ROOF RIDGE LINE & FLOW DIRECTION (TYP.)

PROPOSED BIORETENTION CELL, FG: 37.00, 0.25' PONDING DEPTH, 4,700 SF BOTTOM AREA. SEE LANDSCAPE FOR PLANTINGS (A C6.06)

SDCB #C5 TYPE 1 W/ FRAME & GRATE RIM:37.33 (AB) 8" INV (W): 34.50 (AB) 12" INV (SE): 34.33 (AB)

CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 34.00

PERFORATED SDR35 PVC SD @ 0.00%

24 LF 12"ø CPP SD @ 1.40%

SDCB #B17 TYPE 1 W/ SOLID LID RIM: 38.47 (AB) 12" INV (N): 33.07 (AB) 8" INV (E): 33.07 (AB)

SDCB #F10 TYPE 1 W/ FRAME & GRATE RIM: 38.94 (AB) 6" INV (N): 36.69 (AB) 6" INV (S): 36.79 (AB)

SDCB #F9 TYPE 1 W/ FRAME & GRATE RIM: 38.75 (AB) 12" INV (E): 36.26 (AB)

SDCB #F8 TYPE 1 W/ FRAME & GRATE RIM: 39.01 (AB) 8" INV (N): 35.96 (AB) 8" INV (S): 36.01 (AB)

SDCB #F7 TYPE 1 W/ FRAME & GRATE RIM: 38.48 (AB) 12" INV (W): 35.47 (AB) 12" INV (E): 35.52 (AB)

SD PIPE AND PIPE ELEVATION RECORD PRIOR EW SD SYSTEM.

AS-BUILT NOTE:
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AS-BUILT DRAWING

N S E W

0 10 20 40
1 inch = 20 ft.

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REGISTERED
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7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL

FOR

FERNDALE SCHOOL DISTRICT

AT

5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORM DRAIN PLAN E

DRAWING NUMBER:

C4.04

MATCHLINE SHEET C4.02

MATCHLINE SHEET C4.03

MATCHLINE SHEET C4.06

EX. WEIGHT ROOM
FFE: 39.22

PROPOSED AG SCIENCE BUILDING (BID ALT-4)

PROPOSED AQUACULTURE BUILDING (BID ALT-3)

PROPOSED GREENHOUSE BUILDING (BID ALT-2)

PROPOSED AUX GYM (BID ALT-1)

PROPOSED BUILDING
FFE: 39.50

BURLINGTON NORTHERN RAILROAD

4"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPE, CONNECT TO SDCB @ 2.00% MIN. SLOPE

4"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPES, CONNECT TO SDCB @ 2.00% MIN. SLOPE

4"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPES, CONNECT TO SDCB @ 2.00% MIN. SLOPE

4"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPES, CONNECT TO 18"ø CPP SD PIPE WITH INSERTA-TEE

6"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPING FOR ALT. BID GYM

CONNECT DOWNSPOUTS TO NEW 8" SD PIPING

CONNECT DOWNSPOUT TO SDCB #816

CONNECT DOWNSPOUT TO SDCB #816

EXTENTS OF ALTERNATE BID UTILITY WORK. ALL OTHER PROPOSED IMPROVEMENTS OUTSIDE OF THIS AREA SHALL BE INSTALLED PER BASE BID DRAWINGS. ALTERNATE BID BUILDING PERMITS TO BE OBTAINED AFTER SITE PERMITTING.

EXTENTS OF ALTERNATE BID UTILITY WORK. ALL OTHER PROPOSED IMPROVEMENTS OUTSIDE OF THIS AREA SHALL BE INSTALLED PER BASE BID DRAWINGS.

25' BUFFER

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

N W E S

0 10 20 40
1 inch = 20 ft.

AS-BUILT DRAWING

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

00760.022 07/31/25 RH

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REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16349
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

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FERNDALE HIGH SCHOOL

FOR

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10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION
ADD2	02/05/2021	ADDENDUM 2
CCD8	08/18/2021	CCD-008
CCD33	10/04/2021	CCD-033
CCD100	06/03/2021	CCD-100

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ FOR ICC v.in RENZ
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORM DRAIN PLAN
E
ALTERNATE

DRAWING NUMBER:

Cb4.04

00760.023 07/31/25 RH

MATCHLINE SHEET C4.03

MATCHLINE SHEET C4.06

SHUKSAN

GOLDEN EAGLE DR.

VISTA DR.

SDCB #W20
TYPE 1L W/ FRAME & GRATE
RIM: 37.71 (AB)
12" INV (W): 35.76 (AB)
8" INV (E):
SDCB #W21
TYPE 1 W/ FRAME & GRATE
RIM: 38.53 (AB)
8" INV (S): 36.43 (AB)
12" INV (E): 36.28 (AB)
8" INV (N): 36.36 (AB)
11 LF 12"ø CPP SD @ 4.52%
SDCB #W18
TYPE 1 W/ FRAME & GRATE
RIM: 37.89 (AB)
8" INV (N): 34.89 (AB)
SDCB #W22
TYPE 1 W/ FRAME & GRATE
RIM: 38.28 (AB)
8" INV (N): 36.63 (AB)
SDCB #W17
TYPE 1 W/ FRAME & GRATE
RIM: 38.84 (AB)
8" INV (E): 35.94 (AB)
28 LF 8"ø SDR35 PVC SD @ 8.42%
SDCB #W16
TYPE 1 W/ SOLID LID
RIM: 37.17 (AB)
8" INV (W): 33.77 (AB)
SDCB #W23
TYPE 1 W/ FRAME & GRATE
RIM: 39.85 (AB)
8" INV (S): 36.95 (AB)
SDCB #W19
TYPE 1 W/ FRAME & GRATE
RIM: 37.93 (AB)
8" INV (S): 34.93 (AB)
12" INV (E): 34.93 (AB)
108 LF 12"ø CPP SD @ 0.86%
CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 34.00
PROPOSED BIORETENTION CELL FG: 37.75, 0.25' PONDING DEPTH, 920 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS
PROPOSED BIORETENTION CELL FG: 37.00, 0.25' PONDING DEPTH, 500 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS
SDR35 PVC SD @ 0.00%
TYPE 1 W/ FRAME & GRATE
RIM: 37.00 (AB)
8" INV (E): 34.80 (AB)
134 LF 8"ø SDR35 PVC SD @ 0.50%
SDCB #W9
TYPE 1 W/ FRAME & GRATE
RIM: 37.25 (AB)
8" INV (N): 34.50 (AB)
8" INV (S): 34.00 (AB)
CONNECT TO UNDERGROUND DETENTION SYSTEM, 8" INV: 34.00
7 LF 8"ø SDR35 PVC SD @ 0.00%
PVC SD @ 0.63%
SDCB #W11
TYPE 1 W/ FRAME & GRATE
RIM: 38.52 (AB)
8" INV (W): 35.47 (AB)
8" INV (N): 35.52 (AB)
POTHOLE EXISTING SD PIPE AND REPORT EXISTING PIPE ELEVATION TO ENGINEER OF RECORD PRIOR TO INSTALLING NEW SD SYSTEM.
PROPOSED BIORETENTION CELL FG: 37.00, 0.25' PONDING DEPTH, 500 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS
SDCO
RIM: 37.50
8" INV (S): 34.50
SDCB #W7
TYPE 1 W/ FRAME & GRATE
RIM: 36.99 (AB)
8" INV (E): 34.99 (AB)
27 LF 8"ø PERF SDR35 PVC SD @ 0.00%
SDCB #W6
TYPE 1 W/ FRAME & GRATE
RIM: 37.33 (AB)
8" INV (N): 34.50 (AB)
8" INV (S): 33.38 (AB)
135 LF 8"ø SDR35 PVC SD @ 0.79%
SDCB #W8
TYPE 1 W/ FRAME & GRATE
RIM: 38.60 (AB)
8" INV (W): 36.05 (AB)
CONNECT TO UNDERGROUND DETENTION SYSTEM, 8" INV: 34.00
7 LF 8"ø SDR35 PVC SD @ 8.86%
POTHOLE EXISTING SD PIPE AND REPORT EXISTING PIPE ELEVATION TO ENGINEER OF RECORD PRIOR TO INSTALLING NEW SD SYSTEM.
PROPOSED BIORETENTION CELL FG: 37.00, 0.25' PONDING DEPTH, 500 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS
7 LF 8"ø SDR35 PVC SD @ 6.29%
SDCB #W5
TYPE 1 W/ FRAME & GRATE
RIM: 37.25 (AB)
8" INV (S): 34.50 (AB)
8" INV (N): 34.40 (AB)
27 LF 8"ø PERF SDR35 PVC SD @ 0.00%
SDCB #W4
TYPE 1 W/ FRAME & GRATE
RIM: 38.44 (AB)
8" INV (W): 35.99 (AB)
134 LF 8"ø SDR35 PVC SD @ 0.73%
SDCB #W2
TYPE 1 W/ FRAME & GRATE
RIM: 37.21 (AB)
8" INV (E): 35.01 (AB)
SDCO
RIM: 37.50
8" INV (N): 34.50
SDCB #W2
TYPE 1–60" W/ RING & COVER & CONTROL STRUCTURE RISER
RIM: 39.09 (AB)
18" INV (W): 33.00 (AB)
18" INV (E): 33.49 (AB)
11 LF 18"ø CPP SD @ 0.99%
UNDERGROUND DETENTION SYSTEM OUTLET
12" INV: 33.30
30 LF 18"ø CPP SD @ 2.79%
LOCATE & CONNECT TO EXISTING 18" CONC. SD
SDCB #W1
TYPE 2–54" W/ FRAME & GRATE
RIM: 36.80 (AB)
18" INV (W): 32.65 (AB)
18" INV (E): 32.65 (AB)
74 LF 18"ø CPP SD @ 0.53%
UNDERGROUND DETENTION SYSTEM OUTLET
18" INV: 33.30
24 LF 8"ø SDR35 PVC @ 0.50%
INSTALL NEW SDCB IN GUTTER PAN
TYPE 1 W/ FRAME & GRATE
RIM: 35.20 (AB)
INV: 32.10 (AB)
35 LF 8"ø SDR35 PVC @ 0.50%
PROPOSED BIORETENTION CELL, FG: 37.00, 0.25' PONDING DEPTH, 4,700 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS
CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 34.00
SW PARKING LOT ADS STORMTECH STORMWATER DETENTION FACILITY: (28,000 CF LIVE STORAGE & 12" SEDIMENT STORAGE DEPTH)
TOP OF PERMEABLE BALLAST: 36.00
TOP OF LIVE STORAGE: 35.50
BOTTOM OF LIVE STORAGE: 33.50
BOTTOM OF PERMEABLE BALLAST: 32.00
REMOVE EX. SDCB & EX. 8" DI SD TO SDCB #W16
REMOVE EX. SDCB, CAP & ABANDON EX. 8" PVC SD
REMOVE EX. SDCB, CAP & ABANDON EX. 6" DI SD
REMOVE EXISTING CAST–IN–PLACE CONCRETE SD STRUCTURE AND INSTALL NEW SDCB. TYPE 1 W/ STANDARD FRAME & GRATE. LOCATE NEW CB AS NEEDED TO ACCOMMODATE EXISTING CONCRETE PIPE JOINTS. FLEXIBLE REPAIR COUPLINGS SHALL NOT BE USED.
RIM: 35.27 (AB)
INV: 33.27 (AB)
4"ø PERFORATED PVC PERIMETER DRAIN AROUND DETENTION FACILITY. TIE INTO 18" CPP SD PIPE DOWNSTREAM FROM CONTROL STRUCTURE.
REMOVE EX. SDCB, CAP & ABANDON EX. 6" CLAY SD
EXISTING TYPE 2 SDCB FOUND DURING CONSTRUCTION. ROTATE LID AND ADJUST CASTING TO SET RIM AS CLOSE TO GUTTER FLOWLINE AS POSSIBLE. INSTALL STANDARD FRAME & GRATE.
REMOVE EXISTING INLET (SDCB#20831) & CAP – EXISTING 4" CLAY PIPING
REPLACE EXISTING CB RISER & INSTALL NEW FRAME & GRATE. ALIGN NEW GRATE AS CLOSE AS POSSIBLE TO GUTTER FLOW LINE.
REMOVE EXISTING 8" PIPE STUB & CONNECT TO EXISTING SDCB. NEW 8" INV (E): 32.06 (AB)
GROUT EXISTING SDCB#21307 TO PLUG EAST INVERT
CAP & ABANDON EXISTING STORM DRAIN PIPE AT EDGE OF PAVEMENT – REPLACEMENT. REMOVE EXISTING PIPING EAST OF THIS POINT.
REMOVE EXISTING INLET & INSTALL NEW SDCB IN GUTTER PAN
TYPE 1 W/ FRAME & GRATE
RIM: 34.65 (AB)
INV: 32.45 (AB)
REMOVE EXISTING SD PIPE & INSTALL 30 LF 8"ø D.I. SD, CONNECT TO SDCB #21445
PUBLIC RIGHT OF WAY DEDICATION ALONG EAST SIDE OF GOLDEN EAGLE DR PER AF# 2025–0600967
SDCB #
TYPE 1 W/ FRAME & GRA
RIM: 37.10 (A
8" INV (NE): 34.47 (A
8" INV (SE): 34.45 (A
SDCB #W1
TYPE 1 W/ FRAME & GRATE
RIM: 38.52 (AB)
8" INV (W): 35.47 (AB)
8" INV (N): 35.52 (AB)
SDCB #W9
TYPE 1 W/ FRAME & GRATE
RIM: 37.25 (AB)
8" INV (N): 34.50 (AB)
8" INV (S): 34.00 (AB)
SDCB #W8
TYPE 1 W/ FRAME & GRATE
RIM: 38.60 (AB)
8" INV (W): 36.05 (AB)
SDCB #W4
TYPE 1 W/ FRAME & GRATE
RIM: 38.44 (AB)
8" INV (W): 35.99 (AB)
SDCB #W2
TYPE 1–60" W/ RING & COVER & CONTROL STRUCTURE
RIM: 38.25
18" INV (N): 33.49
18" INV (SE): 33.15
SDCB #W1
TYPE 2–54" W/ FRAME & GRATE
RIM: 34.48 (AB)
INV: 32.43 (AB)
TYPE 2–60" W/ RING & COVER & CONTROL STRUCTURE
RIM: 38.25
18" INV (N): 33.49
18" INV (SE): 33.15
15 LF 18"ø
SDCB #W1
TYPE 1 W/ FRAME & GRATE
RIM: 34.65 (AB)
INV: 32.45 (AB)
SDCB #W2
TYPE 1 W/ FRAME & GRATE
RIM: 34.69
8" INV (NE): 34.47 (A
8" INV (SE): 34.45 (A

MATCHLINE SHEET C4.04

MATCHLINE SHEET C4.05

GOLDEN EAGLE DR

BURLINGTON NORTHERN RAILROAD

PROPOSED BUILDING
FFE: 39.50

EXISTING BUILDING
~~(TO REMAIN)~~
EX. FFE: 35.65

PROPOSED BIORETENTION CELL, FG: 37.00, 0.25' PONDING DEPTH, 4,700 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS

101 LF 8"ø PERFORATED SDR35 PVC SD @ 0.00%

24 LF 12"ø CPP SD @ 1.40%

SDCB #C4
TYPE 1 W/ FRAME & GRATE
RIM: 37.27 (AB)
8" INV (E): 34.50 (AB)
12" INV (SE): 34.22 (AB)

SDCB #C5
TYPE 1 W/ FRAME & GRATE
RIM: 37.33 (AB)
8" INV (W): 34.50 (AB)
12" INV (SE): 34.33 (AB)

CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 34.00

SDCB #C6
INSTALL ACCESS RISER W/ FRAME & ADA GRATE DIRECTLY INTO CMP
RIM: 39.06 (AB)

SDCB #C14
TYPE 1 W/ FRAME & ADA GRATE
RIM: 38.98 (AB)
8" INV (NE): 35.16 (AB)

33 LF 8"ø SDR35 PVC SD @ 0.79%

28 LF 3"ø SDR35 PVC @ 2% MIN. TO SDCB. INV @ BUILDING: 37.50, SEE MECHANICAL FOR CONTINUATION.

CONNECT FOOTING DRAINS & 6"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPING TO SDCB OR DIRECTLY TO UNDERGROUND DETENTION SYSTEM (TYP.)

6"ø SDR35 PVC DOWNSPOUT COLLECTOR PIPING (TYP.)

CENTRAL COURTYARD ADS STORMTECH STORMWATER DETENTION FACILITY: (35,000 CF LIVE STORAGE & 12" SEDIMENT STORAGE DEPTH)
TOP OF PERMEABLE BALLAST: 36.00
TOP OF LIVE STORAGE: 35.50
BOTTOM OF LIVE STORAGE: 33.50
BOTTOM OF PERMEABLE BALLAST: 32.00

4"ø PERFORATED PVC PERIMETER DRAIN AROUND DETENTION FACILITY. TIE INTO 18" CPP SD PIPE DOWNSTREAM FROM CONTROL STRUCTURE.

PROPOSED ROOF RIDGE LINE & FLOW DIRECTION (TYP.)

SPED LOOP ADS STORMTECH STORMWATER DETENTION FACILITY: (27,000 CF LIVE STORAGE & 12" SEDIMENT STORAGE DEPTH)
TOP OF PERMEABLE BALLAST: 36.00
TOP OF LIVE STORAGE: 35.50
BOTTOM OF LIVE STORAGE: 33.50
BOTTOM OF PERMEABLE BALLAST: 32.00

4"ø PERFORATED PVC PERIMETER DRAIN AROUND DETENTION FACILITY. TIE INTO 18" CPP SD PIPE DOWNSTREAM FROM CONTROL STRUCTURE.

UNDERGROUND DETENTION SYSTEM OUTLET 18" INV: 33.30

SDCB #C3
TYPE 2-60" W/ RING & COVER & CONTROL STRUCTURE RISER
RIM: 39.55 (AB)
18" INV (N): 33.40 (AB)
18" INV (S): 33.70 (AB)

SDCB #S2
TYPE 2-54" W/ RING & COVER
RIM: 39.04 (AB)
18" INV (W): 33.04 (AB)
18" INV (N): 33.14 (AB)
18" INV (S): 33.19 (AB)

74 LF 18"ø CPP SD @ 0.53%

SDCB #S3
TYPE 2-60" W/ RING & COVER & CONTROL STRUCTURE RISER
RIM: 38.29 (AB)
18" INV (N): 33.49 (AB)
18" INV (SE): 33.19 (AB)

15 LF 18"ø CPP SD @ 0.73%

24 LF 8"ø SDR35 PVC @ 0.50%

INSTALL NEW SDCB IN GUTTER PAN
TYPE 1 W/ FRAME & GRATE
RIM: 35.20 (AB)
INV: 32.10 (AB)

35 LF 8"ø SDR35 PVC @ 0.50%

REMOVE EXISTING INLET & INSTALL NEW SDCB IN GUTTER PAN
TYPE 1 W/ FRAME & GRATE
RIM: 34.48 (AB)
INV: 32.43 (AB)

REMOVE EXISTING 8" PIPE STUB & CONNECT TO EXISTING SDCB. NEW 8" INV (E): 32.06 (AB)

UNDERGROUND DETENTION SYSTEM OUTLET 12" INV: 33.30

CONNECT TO UNDERGROUND DETENTION SYSTEM, 12" INV: 34.00

31 LF 12"ø CPP SD @ 0.87%

31 LF 12"ø CPP SD @ 0.58%

69 LF 8"ø SDR35 PVC SD @ 0.03%

74 LF 8"ø SDR35 PVC SD @ 0.12%

69 LF 8"ø SDR35 PVC SD @ 0.03%

74 LF 8"ø SDR35 PVC SD @ 0.27%

SDCB #S7
TYPE 1 W/ FRAME & GRATE
RIM: 37.07 (AB)
8" INV (SW): 34.37 (AB)
8" INV (NE): 34.37 (AB)
12" INV (NW): 34.27 (AB)
8" INV (S): 34.37 (AB)

SDCB #S8
TYPE 1 W/ FRAME & GRATE
RIM: 36.26 (AB)
8" INV (N): 34.86 (AB)

SDCB #S4
TYPE 1 W/ FRAME & GRATE
RIM: 37.12 (AB)
8" INV (SW): 34.38 (AB)
8" INV (NE): 34.39 (AB)
12" INV (NW): 34.18 (AB)

SDCB #S5
TYPE 1 W/ FRAME & GRATE
RIM: 37.10 (AB)
8" INV (NE): 34.47 (AB)
8" INV (SE): 34.45 (AB)

SDCB #S6
TYPE 1 W/ FRAME & GRATE
RIM: 36.15 (AB)
8" INV (NW): 34.65 (AB)

PROPOSED BIORETENTION CELL FG: 37.00, 0.25' PONDING DEPTH, 1,350 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS

REMOVE EXISTING INLET & INSTALL NEW SDCB IN GUTTER PAN
TYPE 1 W/ FRAME & GRATE
RIM: 34.65 (AB)
INV: 32.45 (AB)

PUBLIC RIGHT OF WAY DEDICATION ALONG EAST SIDE OF GOLDEN EAGLE DR PER AF# 2025-0600967

SDCB #S9
TYPE 1 W/ FRAME & GRATE
RIM: 36.91 (AB)
8" INV (NE): 34.91 (AB)

SDCO
RIM: 39.41 (AB)
8" INV (SW): 34.50

SDCB #S10
TYPE 1 W/ FRAME & GRATE
RIM: 37.73 (AB)
8" INV (SW): 35.43 (AB)
8" INV (NE): 35.68 (AB)

29 LF 8"ø SDR35 PVC SD @ 0.83%

31 LF 8"ø SDR35 PVC SD @ 1.65% (AB)

SDCB #S11
TYPE 1 W/ FRAME & GRATE
RIM: 37.77 (AB)
8" INV (SW): 35.92 (AB)

SDCB #S12
TYPE 1 W/ FRAME & GRATE
RIM: 38.14 (AB)
8" INV (E): 34.44 (AB)
12" INV (NW): 34.49 (AB)

16 LF 12"ø CPP SD @ 3.15%

64 LF 8"ø PERF SDR35 PVC SD @ 0.09%

PROPOSED BIORETENTION CELL FG: 37.00, 0.25' PONDING DEPTH, 2,400 SF BOTTOM AREA, SEE LANDSCAPE FOR PLANTINGS

SDCB #S13
TYPE 1 W/ FRAME & GRATE
RIM: 37.51 (AB)
8" INV (W): 34.50 (AB)

SDCB #S17
TYPE 1 W/ SOLID LID
RIM: 38.47 (AB)
12" INV (N): 33.07 (AB)
8" INV (E): 33.07 (AB)

SDCB#38348
RIM=35.0, 8"PVC

LOCATE & CONNECT TO EXISTING 8" PVC SD OUTFALL PIPE. INSTALL 8"ø PVC @ 0.5% ALL WORK SHALL REMAIN OUTSIDE OF THE ORDINARY HIGH WATER MARK (OHWM) IN SCHELL DITCH. DISTURBANCE WITHIN THE OHWM IS PROHIBITED.

SDCB#38401
RIM=35.82
INACCESSIBLE

25' BUFFER

20' CONCRETE WALL
SDOUTFALL#38555
IE=31.0, 36"CMP

SDCB#21307
RIM=34.31
31.7, 15"CONC
31.6, 15"CONC
31.9, 12"CONC
BLOCKED OFF
SUMP=31.1

SDCB#21135
RIM=34.98
IE N=32.8, 8"PVC
IE S=31.6, 18"CMP
IE W=31.9, 18"CMP
SUMP=30.6

SDCB#21811
RIM=34.53 (SOLID LID)
IE N=32.3, 8"PVC
IE W=32.1, 8"PVC
SUMP=31

SDCB#21445
RIM=34.61
15"CONC
12"CPP
15"CONC
SUMP=30.4

SDCB#21370
RIM=34.36, 6"STEEL

SDCB#22164
RIM=34.69
IE N=31.2, 15"CONC
IE S=31.2, 15"CONC
IE W=31.5, 12"CONC
SUMP=29.6

SDCB#22788
RIM=34.21
IE W=32.8, 6"CONC
SUMP=30.1

SDCB#31264
RIM=34.11
IE N=32.8, 4"PVC
IE E=32.7, 10"CMP
SUMP=32.6

SDCB#31451
RIM=35.25
IE E=INACCESSIBLE
IE W=32.6(APPROX.), 6"DI
SUMP=31.2 (SILTED)

SDCB#31452
RIM=35.26 (SOLID LID)
IE E=32.4, 4"DI
IE W=32.2, 4"DI
SUMP=31.2

SDCB#31455
RIM=35.25
IE N=32.4, 4"PVC
IE S=32.4, 4"PVC
SUMP=32.1

SDMH#31355
RIM=36.55
IE N=30.4, 36"CMP
IE SW=30.4, 24"CONC
SUMP=29.8

SDCB#27551
RIM=34.77
IE NE=28.9, 24"CONC
IE S=30.1, 4"PVC
IE SW=28.8, 24"CONC
SUMP=28.7

AREA DRAIN #37055
RIM=34.5, 4"PVC
IE E=34.1, 4"PVC
SUMP=33.9

AREA DRAIN #37077
RIM=35.20
IE W=34.8, 4"CPP
SUMP=34.0

AREA DRAIN #37078
RIM=34.65
IE E=34.1, 4"PVC
SUMP=33.9

AREA DRAIN #37079
RIM=34.65
IE E=34.1, 4"PVC
SUMP=33.9

LOCKED STEEL GRATE
SUMP=34.3

AUTOMATED DOOR PUSH BUTTON

1-STORY BRICK BUILDING

2-STORY BRICK BUILDING

COVERED BENCH SEATING

EAVE LINE

GREENHOUSES

AQUA-CULTURE NATURAL RESOURCES

1-STORY PLASTIC WALLED FACILITY

LEAN-TO

WOOD SHED ON BLOCKS

STORAGE CONTAINER

SIGN: NO PARKING FIRE LANE MOUNTED TO OVERHEAD DOOR

CONCRETE LOADING DOCK

36"DOOR FF=36.52

ALUMINUM SIDED WAREHOUSE

ALUMINUM TRAILER BUILDING

ALUMINUM SIDED SHOP BUILDING

CONC. ENTRY PAD FF=35.64

SLOT DRAIN RIM=35.7

FF=35.65

FF=35.78

FF=35.95

FF=39.66

FF=38.42

FF=38.94

FF=35.55

FF=35.64

FF=35.58

FF=35.57

FF=35.62

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

CITY OF FERNDALE NOTES

1. ALL STORM DRAIN PIPE SHALL HAVE A MINIMUM OF TWO FEET OF COVER IN PAVED OR DRIVABLE AREAS OR ALTERNATIVE OPTIONS WILL BE PROVIDED.
2. ALL UNUSED EXISTING STORM INFRASTRUCTURE AND/OR CONVEYANCE SYSTEMS WILL BE ABANDONED APPROPRIATELY AS DIRECTED BY THE ENGINEER OF RECORD.
3. ENGINEER OF RECORD OR THEIR DESIGNEE SHALL INSPECT INSTALLATION, SOILS, AND GRAVELS USED TO CONSTRUCT ALL BIORETENTION CELLS AND UNDERGROUND DETENTION AREAS. CITY INSPECTORS WILL INSPECT ALL STRUCTURES AND CONNECTIONS TO THE FIELDS AND WILL DOCUMENT AND/OR PICTURE CONSTRUCTION FOR CITY RECORDS ONLY. HOWEVER, THE ENGINEER OF RECORD WILL CERTIFY ALL FIELDS PRIOR TO FINAL CITY APPROVAL. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER OF RECORD OR THEIR DESIGNEE TO PROVIDE THE INSPECTION PROCESS REQUIRED TO PROVIDE SAID CERTIFICATION.
4. ALL STORMWATER MANAGEMENT FACILITIES SHALL BE MARKED AND LOCATED APPROPRIATELY BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION.

AS-BUILT DRAWING

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

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W E
S

0 10 20 40
1 inch = 20 ft.

DYKEMAN
ARCHITECTURE + DESIGN
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425.259.3161 (T)
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2nd Floor / Everett, WA 98201

CONSULTANT:

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Bellingham, WA 98225 F: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: for Kevin Renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORM DRAIN PLAN SE

DRAWING NUMBER:

C4.06

PAVING HATCH LEGEND

- = PROPOSED ASPHALT (HEAVY DUTY) — A C6.07
- = PROPOSED ASPHALT (LIGHT DUTY) — B 6.07
- = PROPOSED CONCRETE (SIDEWALK) — J 6.07
- = PROPOSED CONCRETE (SIDEWALK, ADD FIBER MESH) — J C6.07
- = PROPOSED CONCRETE (HEAVY DUTY) — D C6.07
- = PROPOSED PERMEABLE ASPHALT — B C6.06
- = PROPOSED GRAVEL SURFACING — C C6.06
- = PROPOSED CRACK FILLING & SEAL COATING AT EXISTING ASPHALT

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

ROTHAUSEN

LOT B
MEMORIAL HEIGHTS LLA
AF#2050902399
TP: 3902200082550000
#5894 MALLOY AVENUE
GRINDELL / SOWERS

5' UTILITIES EASEMENT AS CREATED ON "MEMORIAL HEIGHTS" AF#2050902399

LOT A
MEMORIAL HEIGHTS LLA
AF#2050902399
TP: 3902200082480000
#5890 MALLOY AVENUE
MEYER

5' UTILITIES EASEMENT AS CREATED ON "MEMORIAL HEIGHTS" AF#2050902399

LOT 3
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200122410000
#5886 MALLOY AVENUE
RESKUSICH

TP: 3902195542380000
#5881 MALLOY AVENUE
WHEELER

LOT 4
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200142330000
#5880 MALLOY AVENUE
PATTERSON

N.10' LOT 5

TP: 3902195542290000
#5873 MALLOY AVENUE
HARVEY

TP: 3902195542230000
NO STREET ADDRESS
HARVEY

LOT 6
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200122210000
#5870 MALLOY AVENUE
MILLER

LOT 7
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112140000
#5862 MALLOY AVENUE
HERNANDEZ

S.1'-2" LOT 7, MEMORIAL HEIGHTS

LOT 8
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112080000
#5858 MALLOY AVENUE
GAULT

N.53' LOT 8, MEMORIAL HEIGHTS

MALLOY AVE.

5' UTILITY EASEMENT AS CREATED ON HULSMAN S.P. AF#2016-0701626

5' UTILITY EASEMENT AS CREATED ON HULSMAN S.P. AF#2016-0701626

10' STORMWATER EASEMENT AS SHOWN ON HULSMAN S.P. AF#2016-0701626

24' ACCESS EASEMENT IN FAVOR OF LOT A, PER BLA AF#2040200997

N01°14'51"E 1325.69'

MATCHLINE SHEET C5.03

MATCHLINE SHEET C5.02

STORMWATER DETENTION EASEMENT IN FAVOR OF THE CITY OF FERNDALE AF#9501090434

STORMWATER DETENTION FACILITY AF#9501090434

STORAGE CONTAINERS

FUEL PUMP

FUEL TANK

CONCRETE

ASPHALT

GRAVEL

STORAGE CONTAINER

WOOD SHED

FF=57.94

WOOD LEAN-TO

WOOD ADDITION

EXISTING BLDG

72" DOOR

CONC. LANDING

144" OVERHEAD DOOR

SHOP

144" OVERHEAD DOOR FF=56.12

144" OVERHEAD DOOR

36" DOOR

GRAVEL FRENCH DRAIN

OIL/FUEL TANK

AIR CONDITIONING UNIT ON CONC. PAD

FF=54.30

CONC. ENTRY PAD

36" DOOR AWNING OVER ENTRY

ALUMINUM SIDED FERNDALE SCHOOL DIST. DEPOT BUILDING

SHED

STORAGE

MATERIALS

COVERED

CAVE LINE

10' WIDE PUGET SOUND ENERGY EASEMENT AF#2080403983 (LOCATED AS CONSTRUCTED)

FF=54.26

CLEAN EXISTING ASPHALT PAVEMENT. BLACK OUT EXISTING PARKING LOT STRIPING WITH BLACK PAINT. SEAL COAT ENTIRE PARKING LOT IN TWO APPLICATIONS (BROOM & SPRAY). 0.15 GAL/SY – 0.20 GAL/SY PER APPLICATION. REPAINT PARKING LOT STRIPES WITH 4" WIDE WHITE PAINT TO MATCH EXISTING STRIPING. (TYP.)

FILL OR PATCH EXISTING PAVEMENT CRACKS PRIOR TO SEAL COATING. FOR CRACKS LESS THAN 1" IN WIDTH, FILL CRACK WITH HOT POURED SEALANT. FOR CRACKS GREATER THAN 1" IN WIDTH, FILL WITH SAND SLURRY PRIOR TO SEAL COATING PER WSDOT 5-04.3(4)A1. (TYP.)

N

W E

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1 inch = 20 ft.

AS-BUILT DRAWING

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

PERMEABLE ASPHALT TRACK, SEE LANDSCAPE FOR TRACK SURFACING & SUBDRAINAGE. (TYP.) — B C6.06

5' WIDE CONCRETE SIDEWALK AROUND TRACK (TYP.)

EXISTING 12' WIDE GRAVEL PATH TO REMAIN. RESTORE TO MATCH EXISTING CONDITIONS WHERE DISTURBED DURING CONSTRUCTION. (TYP.) — B C6.11

265 LF CAST-IN-PLACE CONCRETE WALL (SEE STRUCTURAL), EXTEND TOP OF WALL 6" MIN. ABOVE GRADE IN GRAVEL SERVICE ROAD.

GRADE GRAVEL SERVICE ROAD FOR DRAINAGE INTO RIM OF SDCB #16

BARRIER CURB

SAWCUT, REMOVE & REPLACE EXISTING ASPHALT EAST OF THIS LINE

SET BARRIER CURB FLUSH WITH PAVEMENT AT ENTRANCE TO SERVICE ROAD

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Bellingham, WA 98225 f: 360.650.1401
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PROJECT IDENTIFICATION:

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FOR

FERNDALE SCHOOL DISTRICT

AT

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10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ for Kevin Renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

PAVING & GRADING PLAN NW

DRAWING NUMBER:

C5.01

00760.025 07/31/25 RH

00760.026 07/31/25 RH

PAVING HATCH LEGEND

- = PROPOSED ASPHALT (HEAVY DUTY) — A C6.07
- = PROPOSED ASPHALT (LIGHT DUTY) — B 6.07
- = PROPOSED CONCRETE (SIDEWALK) — J 6.07
- = PROPOSED CONCRETE (SIDEWALK, ADD FIBER MESH) — J C6.07
- = PROPOSED CONCRETE (HEAVY DUTY) — D C6.07
- = PROPOSED PERMEABLE ASPHALT — B C6.06
- = PROPOSED GRAVEL SURFACING — C C6.06
- = PROPOSED CRACK FILLING & SEAL COATING AT EXISTING ASPHALT

3:1 MAX. CUT SLOPE (5:1 TYPICAL CUT SLOPE) TO DAYLIGHT. EXCAVATION SHALL NOT EXTEND INTO EXISTING WATER EASEMENT TO MAINTAIN COVER OVER EXISTING PIPING.

FRENCH DRAIN AT TOE OF SLOPE ALONG ALL CUT SLOPES AROUND TRACK (TYP.)

END RETAINING WALL

SEE LANDSCAPE FOR ATHLETIC PADS & EQUIPMENT (TYP.)

PERMEABLE ASPHALT TRACK. SEE LANDSCAPE FOR TRACK SURFACING & SUBDRAINAGE. (TYP.) — B C6.06

5' WIDE CONCRETE SIDEWALK AROUND TRACK (TYP.)

EXISTING 12' WIDE GRAVEL PATH TO REMAIN. RESTORE TO MATCH EXISTING CONDITIONS WHERE DISTURBED DURING CONSTRUCTION. (TYP.)

265 LF CAST-IN-PLACE CONCRETE WALL (SEE STRUCTURAL), EXTEND TOP OF WALL 6" MIN. ABOVE GRADE IN GRAVEL SERVICE ROAD.

PROPOSED GRANDSTAND FFE: 41.75

GRADE GRAVEL SERVICE ROAD FOR DRAINAGE INTO RIM OF SDCB #F16

BARRIER CURB

START RETAINING WALL

ADA PARKING STALLS, STRIPED AISLES, SIGNAGE, & "NO PARKING" SIGNS AT HEAD OF STRIPED AISLES. 2% MAX GRADE WITHIN STALLS & AISLES. (TYP.)

FLUSH SIDEWALK ALONG ROW OF ADA STALLS

SIDEWALK RAMP

PERMEABLE ASPHALT TRACK. SEE LANDSCAPE FOR TRACK SURFACING & SUBDRAINAGE. (TYP.) — B C6.06

6.5' WIDE CONCRETE SIDEWALK AROUND TRACK (TYP.)

SEE LANDSCAPE FOR FIELD TURF, STRIPING, AND EQUIPMENT (TYP.)

5:1 FILL SLOPE TO EXISTING GRADE

25' BUFFER

MATCHLINE SHEET C5.01

MATCHLINE SHEET C5.04

BURLINGTON NORTHERN RAILROAD

ENGINEER'S CERTIFICATION:
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BY: _____ DATE: 10/2/2024

N W E S

0 10 20 40
1 inch = 20 ft.

AS-BUILT DRAWING
AS-BUILT NOTE:
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Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH — STATE OF WASHINGTON — 16343 — REGISTERED PROFESSIONAL ENGINEER — 7/30/2025

PROJECT IDENTIFICATION:

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FOR
FERNDALE SCHOOL DISTRICT
AT
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PROJECT NUMBER: 2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

PAVING & GRADING PLAN NE

DRAWING NUMBER:

C5.02

00760.027 07/31/25 RH

PAVING HATCH LEGEND

- = PROPOSED ASPHALT (HEAVY DUTY) — A C6.07
- = PROPOSED ASPHALT (LIGHT DUTY) — B 6.07
- = PROPOSED CONCRETE (SIDEWALK) — J 6.07
- = PROPOSED CONCRETE (SIDEWALK, ADD FIBER MESH) — J C6.07
- = PROPOSED CONCRETE (HEAVY DUTY) — D C6.07
- = PROPOSED PERMEABLE ASPHALT — B C6.06
- = PROPOSED GRAVEL SURFACING — C C6.06
- = PROPOSED CRACK FILLING & SEAL COATING AT EXISTING ASPHALT

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

MATCHLINE SHEET C5.01

MATCHLINE SHEET C5.04

MATCHLINE SHEET C5.05

LOT 8
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200112080000
#5858 MALLOY
AVENUE
GAULT

N.53' LOT 8, MEMORIAL HEIGHTS

LOT 9
MEMORIAL HEIGHTS
V.8, P14
TP: 3902200121990000
#5854 MALLOY
AVENUE
THOMAS

10' PUGET POWER EASEMENT
APPROXIMATE LOCATION
AF #1533794

TP: 3902195571830000
#5841 MALLOY
AVENUE
ALVARADO

TP: 3902195521750000
#5833 MALLOY
AVENUE
SMEALL

LOT 2
10TH LLA
2100302011
195531680000
29 MALLOY
AVENUE
RICKSON

MALLOY AVE.

MEMORIAL DR.

SAWCUT, REMOVE & REPLACE ASPHALT PAVEMENT FOR INSTALLATION OF NEW CURB

INSTALL SIDEWALK ALONG BACK OF EXISTING CURB

SAWCUT, REMOVE & REPLACE EXISTING ASPHALT EAST OF THIS LINE

CONCRETE CURB & GUTTER

BARRIER CURB

CLEAN EXISTING ASPHALT PAVEMENT AND SEAL COAT DRIVEWAY IN TWO APPLICATIONS (BROOM & SPRAY). 0.15 GAL/SY – 0.20 GAL/SY PER APPLICATION. (TYP.)

FILL OR PATCH EXISTING PAVEMENT CRACKS PRIOR TO SEAL COATING. FOR CRACKS LESS THAN 1" IN WIDTH, FILL CRACK WITH HOT POURED SEALANT. FOR CRACKS GREATER THAN 1" IN WIDTH, FILL WITH SAND SLURRY PRIOR TO SEAL COATING PER WSDOT 5-04.3(4)A1. (TYP.)

CLEAN EXISTING ASPHALT PAVEMENT. BLACK OUT EXISTING PARKING LOT STRIPING WITH BLACK PAINT. SEAL COAT ENTIRE PARKING LOT IN TWO APPLICATIONS (BROOM & SPRAY). 0.15 GAL/SY – 0.20 GAL/SY PER APPLICATION. REPAINT PARKING LOT STRIPES WITH 4" WIDE WHITE PAINT TO MATCH EXISTING STRIPING. (TYP.)

FILL OR PATCH EXISTING PAVEMENT CRACKS PRIOR TO SEAL COATING. FOR CRACKS LESS THAN 1" IN WIDTH, FILL CRACK WITH HOT POURED SEALANT. FOR CRACKS GREATER THAN 1" IN WIDTH, FILL WITH SAND SLURRY PRIOR TO SEAL COATING PER WSDOT 5-04.3(4)A1. (TYP.)

BEGIN SEALCOATING & CRACK REPAIR AT EXISTING PAVEMENT JOINT. FIELD LOCATE.

SAWCUT & CONNECT TO EXISTING ASPHALT

CURB & GUTTER (TYP.)

4.5' SIDEWALK & BARRIER CURB

EXISTING 4" FIRE SERVICE TO PAC FOUND DURING CONSTRUCTION

SEE TELECOM FOR MOTORIZED GATE CONTROLS

PROPOSED GATES MUST PROVE ALL-HOURS ACCESS AS REQUIRED BY CITY OF FERNDALE & WHATCOM COUNTY FIRE DISTRICT 7 (TYP.)

FLARE SIDEWALK TO CREATE 5' MINIMUM WALKWAY SOUTH OF RAMP

CONCRETE PAVEMENT ● PEDESTRIAN CROSSING, 6" MIN. CONCRETE, THICKNESS

BEGIN ROLLED CU AROUND BUS LOC

EXISTING PAC
(TO REMAIN)
EX. FFE: 39.5 – 44.2

ROCK RETAINING WALL ALONG BACK OF NEW SIDEWALK. BLEND WITH EXISTING ROCK WALL AT SOUTH END OF TENNIS COURTS.

INSTALL BARRIER CURB & SIDEWALK ALONG EXISTING DRIVEWAY. SAWCUT, REMOVE & REPLACE ASPHALT PAVEMENT FOR INSTALLATION OF NEW CURB. (TYP.)

INSTALL BARRIER CURB TO CREATE NEW LANDSCAPE ISLAND. SAWCUT, REMOVE & REPLACE ASPHALT PAVEMENT & STRIPING FOR INSTALLATION OF NEW CURB. (TYP.)

REMOVE EXISTING ASPHALT PAVEMENT, SEE LANDSCAPING FOR RESTORATION & PLANTINGS

REMOVE EXISTING PARKING LOT STRIPING BETWEEN NEW LANDSCAPE ISLANDS

SAWCUT, REMOVE & REPLACE ASPHALT PAVEMENT FOR INSTALLATION OF NEW CURB

INSTALL BARRIER CURB TO CREATE LANDSCAPE ISLAND WITHIN EXISTING PARKING LOT

MAINTAIN EXISTING GRADES AT EXISTING ELECTRICAL STRUCTURES

CONCRETE MOW STRIP (SEE LANDSCAPE)

PROPOSED GATES MUST PROVE ALL-HOURS ACCESS AS REQUIRED BY CITY OF FERNDALE & WHATCOM COUNTY FIRE DISTRICT 7. GATE SUPPORTS OR COLUMNS TO BE LOCATED NO CLOSER THAN 5' FROM EXISTING PUBLIC SEWER, WATER, OR STORM MAINS. (TYP.)

ADA PARKING SIGN AT HEAD OF EACH ADA PARKING STALL, "NO PARKING" SIGN AT HEAD OF EACH AISLE. (TYP.)

FLUSH SIDEWALK & DETECTABLE WARNING PATTERN ACROSS ADA STALLS & AISLES. INSTALL RAMPS AT EAST AND WEST ENDS OF ADA ROW.

WHEEL STOP (TYP.)

12' SIDEWALK & BARRIER CURB (TYP.)

BARRIER CURB AROUND LANDSCAPE ISLAND (TYP.)

CURB & GUTTER AROUND BIORETENTION CELL. INSTALL CURB OPENINGS AND ROCK ARMORING TO BASE OF BIORETENTION CELL ● 10' MAX. O.C.

CURB & GUTTER ARO CELL. INSTALL CURB ROCK ARMORING TO B BIORETENTION CELL ●

GRADE BREAK HIGH POINT

TENNIS COURT PAINTED ASPHALT SURFACING

TENNIS COURT NET

ABANDONED CONCRETE PIPING

N
W E
S

0 10 20 40
1 inch = 20 ft.

AS-BUILT DRAWING

AS-BUILT NOTE:
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7/30/2025

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PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
PAVING & GRADING PLAN W

DRAWING NUMBER:
C5.03

00760.028 07/31/25 RH

MATCHLINE SHEET C5.02

MATCHLINE SHEET C5.03

MATCHLINE SHEET C5.06

PAVING HATCH LEGEND

- = PROPOSED ASPHALT (HEAVY DUTY) (A C6.07)
- = PROPOSED ASPHALT (LIGHT DUTY) (B 6.07)
- = PROPOSED CONCRETE (SIDEWALK) (J 6.07)
- = PROPOSED CONCRETE (SIDEWALK, ADD FIBER MESH) (J C6.07)
- = PROPOSED CONCRETE (HEAVY DUTY) (D C6.07)
- = PROPOSED PERMEABLE ASPHALT (B C6.06)
- = PROPOSED GRAVEL SURFACING (C C6.06)

EX. WEIGHT ROOM
FFE: 39.22

PROPOSED BUILDING
FFE: 39.50

BURLINGTON NORTHERN RAILROAD

CAST-IN-PLACE CONCRETE WALL (SEE STRUCTURAL)

SIDEWALK RAMP & CAST-IN-PLACE CONCRETE WALL

BASE BID: GRAVEL PAD FOR FUTURE BUILDING VILLAGE, FG: 39.25

SEE TELECOM FOR MOTORIZED GATE CONTROLS

CONCRETE EMERGENCY ACCESS LANE

CONCRETE BARRIER CURB

CONCRETE PAVEMENT @ PEDESTRIAN CROSSING, 6" MIN. CONCRETE THICKNESS

INSTALL CONCRETE ROLLED CURB & "NO PARKING" STRIPING ACROSS WIDTH OF EMERGENCY ACCESS LANE

BEGIN ROLLED CURB AROUND BUS LOOP

END ROLLED CURB AROUND BUS LOOP

6" THICK CONCRETE SIDEWALK AROUND BUS LOOP FOR ENTIRE LENGTH OF ROLLED CURB (TYP.)

BARRIER CURB

PITCH ROLLED CURB GUTTER PAN TOWARD ASPHALT PAVEMENT. GRADE PAVEMENT FOR DRAINAGE INTO RIMS OF CATCH BASINS (TYP.)

ROLLED CURB AROUND BUS LOOP (TYP.)

PROPOSED GATES MUST PROVE ALL-HOURS ACCESS AS REQUIRED BY CITY OF FERNDALE & WHATCOM COUNTY FIRE DISTRICT 7. GATE SUPPORTS OR COLUMNS TO BE LOCATED NO CLOSER THAN 5' FROM EXISTING PUBLIC SEWER, WATER, OR STORM MAINS. (TYP.)

CONCRETE MOW STRIP (SEE LANDSCAPE)

HEAVY DUTY ASPHALT PAVEMENT FOR FIRE DEPARTMENT ACCESS

13' SIDEWALK

25' BUFFER

6" THICK CONCRETE PAVEMENT SECTION AT SERVICE YARD (TYP.)

ADD FIBER MESH TO CONCRETE SIDEWALK IN PLAZA

FLAG POLE (SEE LANDSCAPE)

BARRIER CURB AROUND DROP-OFF LOOP (TYP.)

FLUSH SIDEWALK & WHEEL STOPS ALONG ADA PARKING STALLS

TRANSITION FROM 6" EXPOSED CURB TO FLUSH CURB

ASPHALT RAMP

ASPHALT FLUSH WITH TOP OF CURB ALONG DROP-OFF AREA

CURB & GUTTER AROUND BIORETENTION CELL. INSTALL CURB OPENINGS AND ROCK ARMORING TO BASE OF BIORETENTION CELL @ 10' MAX. O.C. (I C6.07) (A C6.06)

BARRIER CURB & SIDEWALK SET FLUSH WITH PAVEMENT TO ALLOW SHEET FLOW INTO BIORETENTION CELL. SEE LANDSCAPE FOR MOW STRIP/EDGE TREATMENT (TYP.)

GRADE EDGE OF PAVEMENT AT SERVICE YARD TO ALLOW STORMWATER SHEET FLOW INTO VEGETATION TO THE EAST

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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

N E S W

0 10 20 40
1 inch = 20 ft.

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net | 1716 West Marine View Drive
425.259.3161 (T) | 2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 | t: 360.650.1408
Bellingham, WA 98225 | f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK BEATTIE — STATE OF WASHINGTON — 16343 — REGISTERED PROFESSIONAL ENGINEER — 7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER: 2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

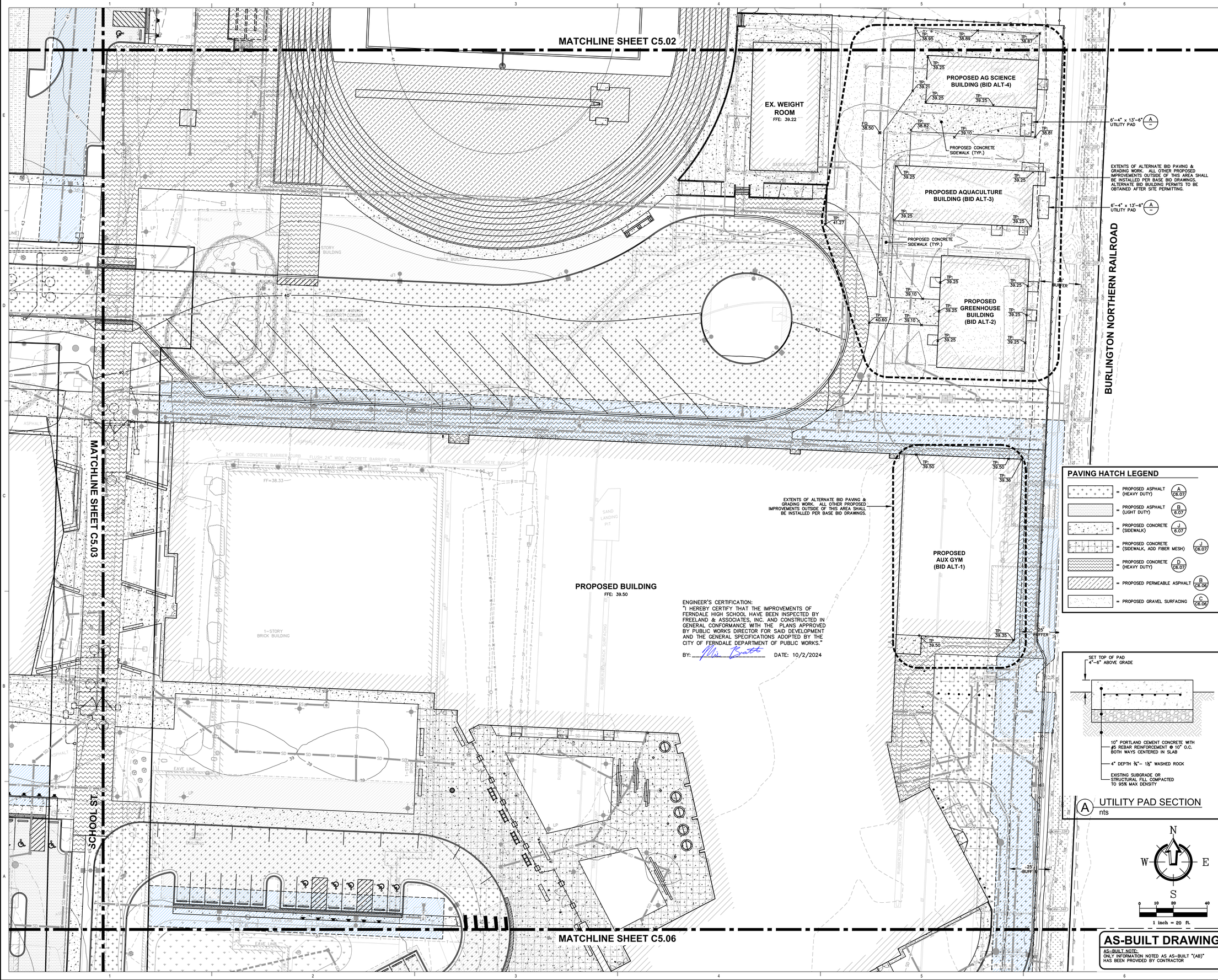
APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

PAVING & GRADING PLAN E

DRAWING NUMBER:

C5.04



00760.029 07/31/25 RH

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FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK BEATTE
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION
ADD2	02/05/2021	ADDENDUM 2
CCD8	08/18/2021	CCD-008
CCD12	08/18/2021	CCD-012
CCD100	06/03/2021	CCD-100

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

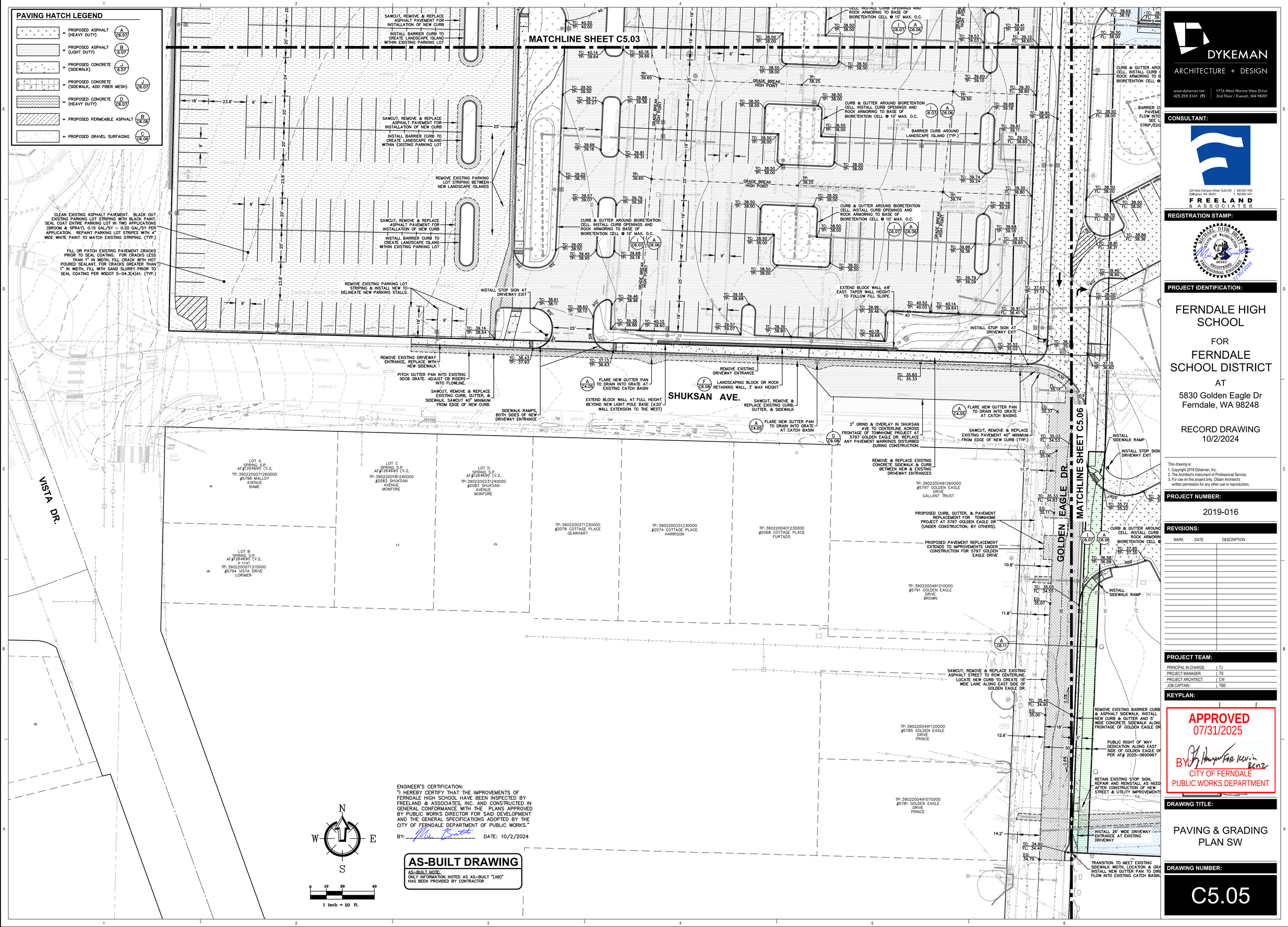
APPROVED
07/31/2025
BY:
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

PAVING & GRADING PLAN E ALTERNATE

DRAWING NUMBER:

Cb5.04



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BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING

AS-BUILT NOTE:
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MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

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PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
PAVING & GRADING PLAN SW

DRAWING NUMBER:
C5.05

00760.031 07/31/25 RH

MATCHLINE SHEET C5.04

MATCHLINE SHEET C5.05

PROPOSED BUILDING
FFE: 39.50

EXISTING BUILDING
~~(TO REMAIN)~~
EX. FFE: 35.65

GOLDEN EAGLE DR

BURLINGTON NORTHERN RAILROAD

CURB & GUTTER AROUND BIORETENTION CELL. INSTALL CURB OPENINGS AND ROCK ARMORING TO BASE OF BIORETENTION CELL @ 10' MAX. O.C. (I C6.07 / A C6.06)

BARRIER CURB SET FLUSH WITH PAVEMENT TO ALLOW SHEET FLOW INTO BIORETENTION CELL. SEE LANDSCAPE FOR MOW STRIP/EDGE TREATMENT (TYP.)

BARRIER CURB SET FLUSH WITH PAVEMENT TO ALLOW SHEET FLOW INTO BIORETENTION CELL. SEE LANDSCAPE FOR MOW STRIP/EDGE TREATMENT (TYP.)

TRANSITION FROM 6" EXPOSED CURB TO FLUSH CURB

BARRIER CURB & 8' SIDEWALK

BARRIER CURB & 10' SIDEWALK

SIDEWALK RAMP & PAINTED CROSSWALK STRIPING

WHEEL STOP (TYP.)

BARRIER CURB & SIDEWALK SET FLUSH WITH TOP OF PAVEMENT AT ADA PARKING STALLS

ASPHALT FLUSH WITH TOP OF CURB ALONG DROP-OFF AREA

CONCRETE MOW STRIP (SEE LANDSCAPE)

ASPHALT RAMP TO MEET EXISTING ASPHALT WALKWAY

CONNECT TO EXISTING ASPHALT PAVEMENT

CONNECT TO EXISTING ASPHALT PAVEMENT, EXTEND PAVEMENT TO NEW CONCRETE PAD

CONCRETE PAD FOR FUEL TANK & GENERATOR PER ELECTRICAL, FENCING PER LANDSCAPE
FG: 35.75

25' BUFFER

INSTALL SIDEWALK RAMP

INSTALL STOP SIGN AT DRIVEWAY EXIT

INSTALL SIDEWALK RAMP

SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT, CURBS, & SIDEWALKS FOR INSTALLATION OF NEW SEWER & GAS (TYP.)

REMOVE & REPLACE EXISTING CURB TO ROW CENTERLINE. CURB TO CREATE 18' ALONG EAST SIDE OF GOLDEN EAGLE DR.

REMOVE EXISTING BARRIER CURB & ASPHALT SIDEWALK. INSTALL NEW CURB & GUTTER AND 5' WIDE CONCRETE SIDEWALK ALONG FRONTAGE OF GOLDEN EAGLE DR.

PUBLIC RIGHT OF WAY DEDICATION ALONG EAST SIDE OF GOLDEN EAGLE DR PER AF# 2025-0600967

RETAIN EXISTING STOP SIGN, REPAIR AND REINSTALL AS NEEDED AFTER CONSTRUCTION OF NEW STREET & UTILITY IMPROVEMENTS.

INSTALL 26' WIDE DRIVEWAY ENTRANCE AT EXISTING DRIVEWAY

SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT, CURBS, & SIDEWALKS FOR INSTALLATION OF NEW SEWER (TYP.)

TRANSITION TO MEET EXISTING SIDEWALK WIDTH, LOCATION & GRADE. INSTALL NEW GUTTER PAN TO DIRECT FLOW INTO EXISTING CATCH BASIN.

PAVING HATCH LEGEND

- PROPOSED ASPHALT (HEAVY DUTY) — A C6.07
- PROPOSED ASPHALT (LIGHT DUTY) — B 6.07
- PROPOSED CONCRETE (SIDEWALK) — J 6.07
- PROPOSED CONCRETE (SIDEWALK, ADD FIBER MESH) — J C6.07
- PROPOSED CONCRETE (HEAVY DUTY) — D C6.07
- PROPOSED PERMEABLE ASPHALT — B C6.06
- PROPOSED GRAVEL SURFACING — C C6.06

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N W E S

0 10 20 40
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10/2/2024

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MARK	DATE	DESCRIPTION

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PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

PAVING & GRADING PLAN SE

DRAWING NUMBER:

C5.06

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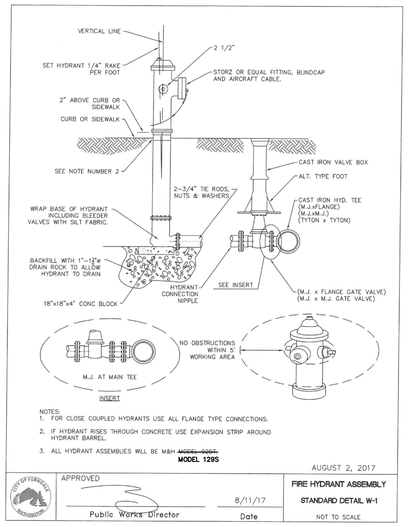
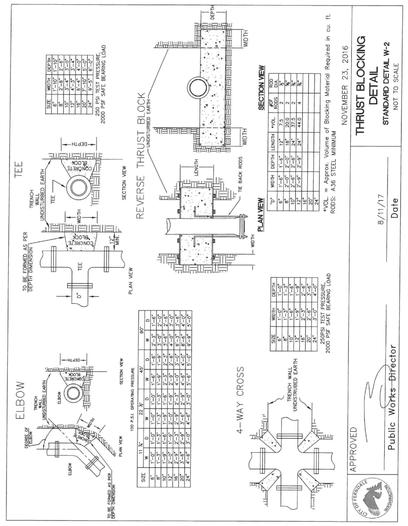


A FIRE HYDRANT ASSEMBLY
nts



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BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING
AS-BUILT NOTE:
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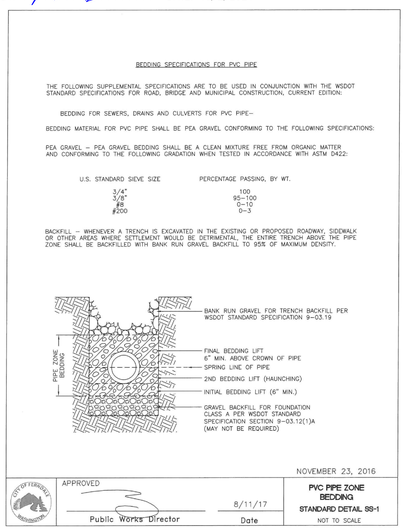
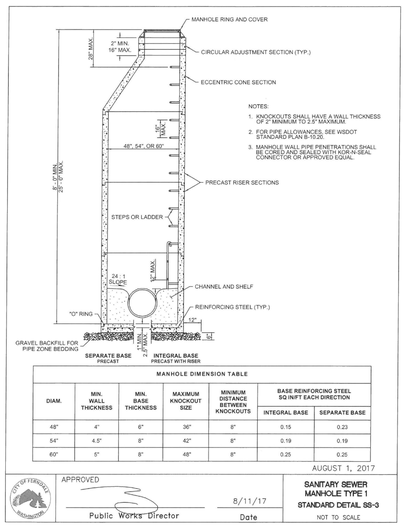
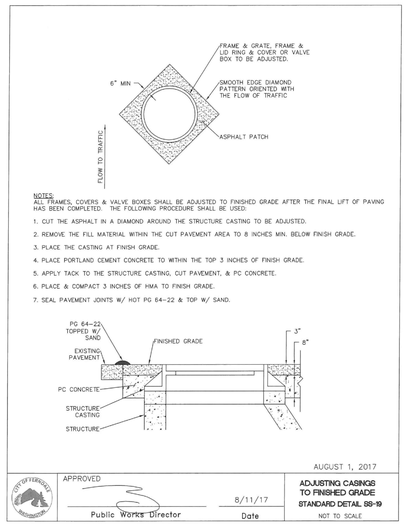
NOTE:
ALL SANITARY SEWER CLEAN OUT LIDS SHALL BE MARKED "SEWER".



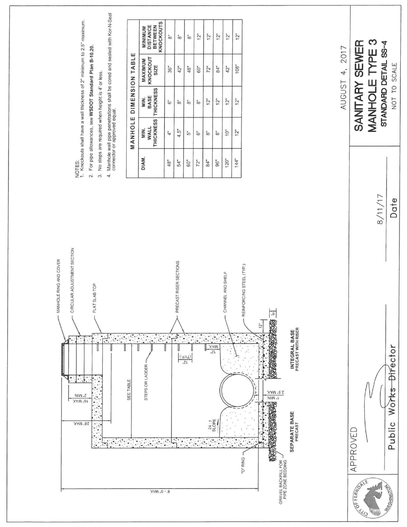
A PIPE ZONE BEDDING
nts



B SEWER MANHOLE TYPE 1
nts



C ADJUST CASTINGS TO FINISH GRADE
nts



D SEWER MANHOLE TYPE 3
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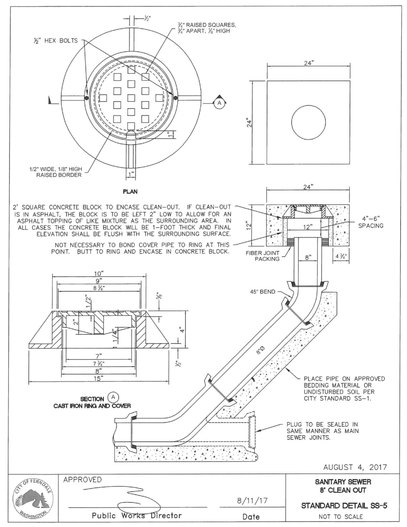
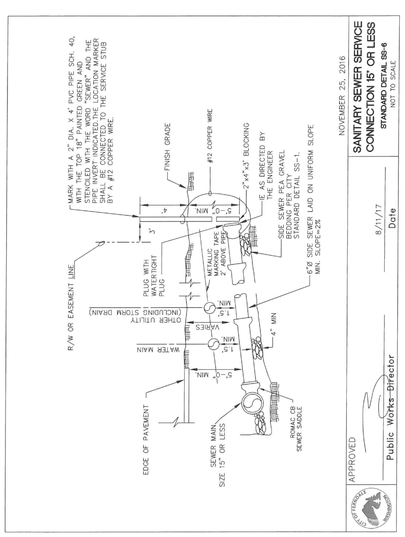
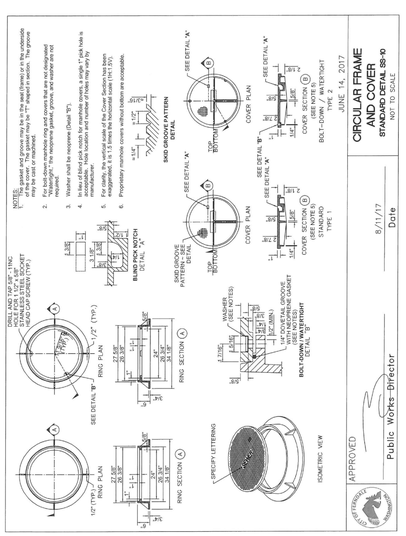


E SEWER CLEANOUT
nts

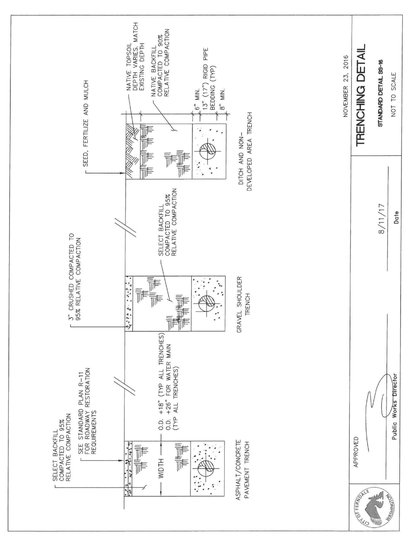
CONCRETE PRODUCTS **CCP 596 GI (2000 Gal.)**
19604 - 67th Ave NE Arlington, Wa. 98223 Telephone (360) 435-5531 Fax (360) 435-8134



F SEWER SERVICE CONNECTION
nts



G MANHOLE RING & COVER
nts

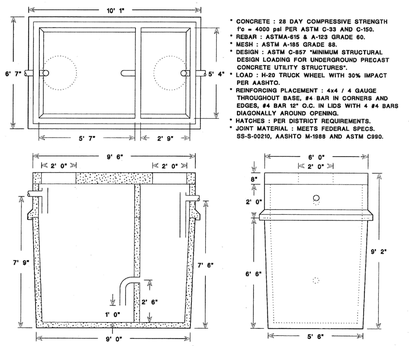


H SEWER TRENCHING
nts

GRAVITY GREASE INTERCEPTOR SIZING (FOR REF ONLY - BY DIV 02)

KITCHEN FIXTURE TAG	PLUMBING FIXTURE TAG	FIXTURE	QTY	CW PIPE SIZE IN	DIRECT DRAIN IN	INDIRECT DRAIN IN	FIXTURE DFU	DFU TOTAL	FLOW GPM	ADD CAPACITY GAL	NOTES
3	-	FREEZER COIL FLOOR SINK	2	-	-	3/4	1	2	-	-	2
6/8/61	-	VEGETABLE & MEAT/DAIRY & SHIP-OUT COOLERS/FLOOR SINK	3	-	-	3/4	1	3	-	-	2
11/12	-	FLOOR THROUGH	6	-	2	-	0	0	-	-	2
29/41/109/164/186	-	FLOOR THROUGH	7	-	2	-	4	28	-	-	2
25/36	-	FLOOR THROUGH	3	-	3	-	6	18	-	-	2
13	-	ICE MACHINE ICE BIN / FLOOR SINK	1	-	-	(2) 1	2	2	-	-	2
15	-	MEAT PREP SINKS/FLOOR SINK	1	-	-	2	4	4	-	-	2
18/52/57/95/163/199	-	HAND SINK	7	-	1-1/2	-	1	7	-	-	1
21	-	VEGETABLE PREP SINK/FOOR SINK	1	-	-	1-1/2	3	3	-	-	2
24/37	-	BLAST CHILLER/FLOOR SINK	2	-	-	1/2	1	2	-	-	2
42/43	-	ROLL-IN COMBI OVEN/FLOOR SINK	1	-	-	1	1	1	-	-	2
42/43	-	COMBI OVEN/FLOOR SINK	2	-	-	(2) 1	2	4	-	-	2
50/55	-	ISLAND PREP TABLE W/ SINK/FLOOR SINK	2	-	-	2	4	8	-	-	2
65/66	-	COLD FOOD WELLS/FLOOR SINK	2	-	-	1	1	2	-	-	2
73/75	-	ENTRE HOT FOOD WELLS/GRILL HOT FOOD WELLS/FLOOR SINK	2	-	-	1	2	4	-	-	2
96	-	EYEWASH STATION	1	-	1-1/2	-	4	4	-	-	1
100	-	SOILED DT/3-COMPSINK/FLOOR SINK	2	-	-	(3) 2	12	24	-	-	2
101	-	WASTE SCRAPING UNIT	1	-	2	-	4	4	-	-	2
103	-	CONVEYOR WARE WASHER	1	-	-	2	4	4	-	-	2
109/151	-	WASHER/DRYER	2	-	1-1/2	-	3	6	-	-	2
160/203/213/223/235/245/255	-	2-COMP SINK/2-COMP PREP SINK/DROP-IN 2-COMP SINK/FLOOR SINK	7	-	-	(2) 2	8	56	-	-	2
153	-	MOP SINK CABINET	1	-	3	-	3	3	-	-	2
170	-	COMBI OVEN (ELECT.)FLOOR SINK	1	-	-	(2) 2	8	8	-	-	2
182	-	DISHWASHER	1	-	-	1-1/2	2	2	-	-	2
184	-	ICE MACHINE/FLOOR SINK	1	-	-	3/4	1	1	-	-	2
192	-	UTILITY SINK	1	-	-	2	4	4	-	-	2
-	FD	FLOOR DRAIN	16	-	4	-	0	0	-	-	2
TOTAL								202		*	
REQUIRED INTERCEPTOR SIZE BASED ON DFU'S AND 2015 UPC TABLE 1014.3.6										2,000	GAL
ADDITIONAL CAPACITY BASED ON GPM										-	GAL
REQUIRED INTERCEPTOR SIZE										**2,000**	**GAL**

NOTES:
1) DFU'S ARE BASED ON 2015 UPC TABLE 702.1.
2) DFU'S ARE BASED ON 2015 UPC TABLE 702.2(1).



* CONCRETE : 28 DAY COMPRESSIVE STRENGTH f'c = 4000 psi PER ASTM C-33 AND C-150.
* REBAR : ASTMA-615 & A-123 GRADE 60.
* MESH : ASTM A-185 GRADE 65.
* DESIGN : ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES".
* LOAD : H-20 TRUCK WHEEL WITH 30% IMPACT PER AASHTO.
* REINFORCING PLACEMENT : 4x4 / 4 GAUGE THROUGHOUT BASE, #4 BAR IN CORNERS AND EDGES, #4 BAR 12" O.C. IN LIDS WITH 4 #4 BARS DIAGONALLY AROUND OPENING.
* HATCHES : PER DISTRICT REQUIREMENTS.
* JOINT MATERIAL : MEETS FEDERAL SPECS. SS-S-00210, AASHTO M-1988 AND ASTM C990.

I GREASE INTERCEPTOR & CALCULATIONS
nts

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JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ FOR KEVIN RENZ
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
SANITARY SEWER DETAILS

DRAWING NUMBER:
C6.02

00760.033 07/31/25 RH

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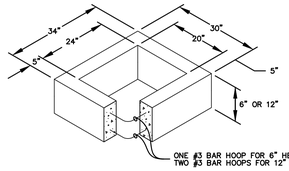
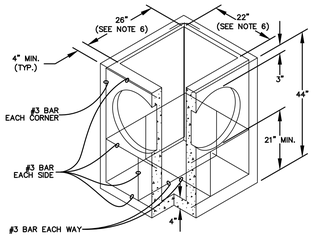


RECTANGULAR ADJUSTMENT SECTION

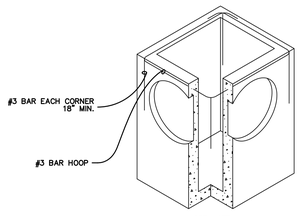
PIPE ALLOWANCES	
PIPE MATERIAL	MAX. INSIDE ø
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP* (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

*CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES:
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 BE USED WITH THE MINIMUM REQUIRED REBAR SHOWN IN THE ALTERNATIVE PRECAST BASE SECTION. WIRE MESH SHALL NOT BE PLACED IN THE KNOCKOUTS.
2. THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20". KNOCKOUTS SHALL 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.
3. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'.
4. THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE UP OR DOWN. THE FRAME MAY BE CAST INTO THE ADJUSTMENT SECTION.
5. THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
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.



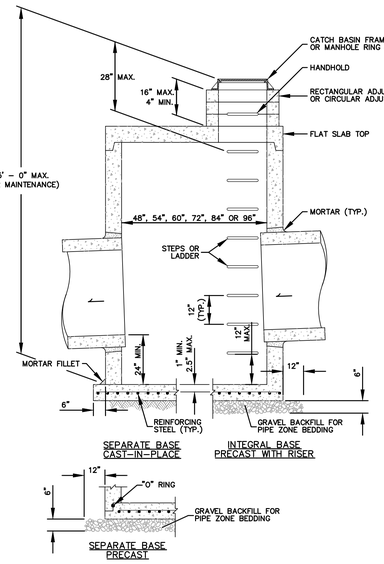
PRECAST BASE SECTION



SEE NOTE 1

ALTERNATIVE PRECAST BASE SECTION

A CATCH BASIN TYPE 1
nts



NOTES:
1. NO STEPS ARE REQUIRED WHEN HEIGHT IS 4' OR LESS.
2. THE BOTTOM OF THE PRECAST CATCH BASIN MAY BE SLOPED TO FACILITATE CLEANING.
3. THE RECTANGULAR FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE UP OR DOWN. THE FRAME MAY BE CAST INTO THE ADJUSTMENT SECTION.
4. KNOCKOUTS SHALL 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.

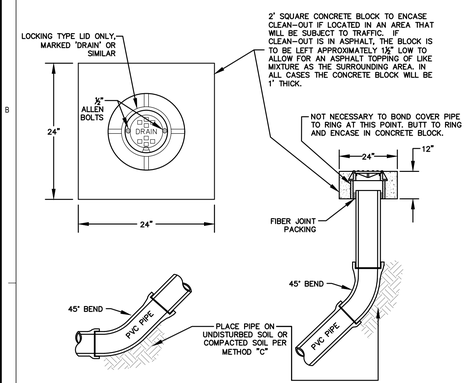
CATCH BASIN DIMENSIONS						
CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS	in²/ft. IN EACH DIRECTION	
					SEPARATE BASE	INTEGRAL BASE
48"	4"	6"	36"	8"	0.23	0.15
54"	4.5"	8"	42"	8"	0.19	0.19
60"	5"	8"	48"	8"	0.25	0.25
72"	6"	8"	60"	12"	0.35	0.24
84"	8"	12"	72"	12"	0.39	0.29
96"	8"	12"	84"	12"	0.39	0.29

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ①	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	27"	30"
54"	30"	36"	30"	27"	36"
60"	36"	42"	36"	36"	42"
72"	42"	54"	42"	36"	48"
84"	54"	60"	54"	36"	48"
96"	60"	72"	60"	36"	48"

① Corrugated Polyethylene Storm Sewer Pipe (Std. Spec. 9-05.20)
② (Std. Spec. 9-05.12(1))
③ (Std. Spec. 9-05.12(2))

B CATCH BASIN TYPE 2
nts

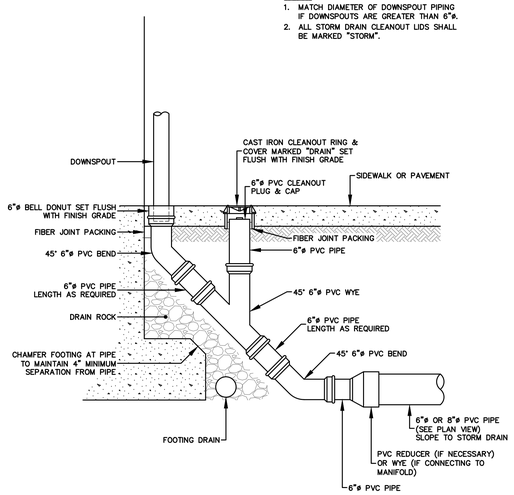
NOTES:
1. ALL STORM DRAIN CLEANOUT LIDS SHALL BE MARKED "STORM".
2. ALL SANITARY SEWER CLEANOUT LIDS SHALL BE MARKED "SEWER".



NOTE:
PIPE SIZE VARIES – SEE STORM DRAIN PLANS FOR SPECIFIC SIZES

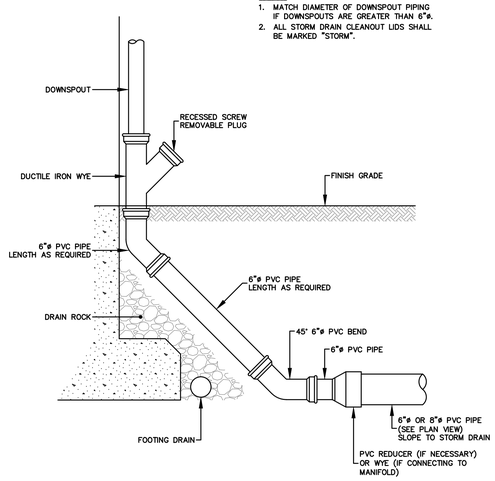
C STORM DRAIN CLEANOUT
nts

NOTES:
1. MATCH DIAMETER OF DOWNSPOUT PIPING IF DOWNSPOUTS ARE GREATER THAN 6"ø.
2. ALL STORM DRAIN CLEANOUT LIDS SHALL BE MARKED "STORM".

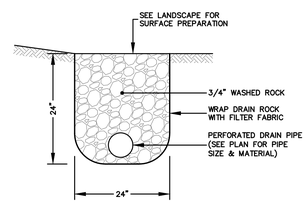


D DOWNSPOUT CLEANOUT IN PAVEMENT
nts

NOTES:
1. MATCH DIAMETER OF DOWNSPOUT PIPING IF DOWNSPOUTS ARE GREATER THAN 6"ø.
2. ALL STORM DRAIN CLEANOUT LIDS SHALL BE MARKED "STORM".



E DOWNSPOUT CLEANOUT IN LANDSCAPING
nts



F FRENCH DRAIN
nts

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
425.259.3161 (T)
1716 West Marine View Drive
2nd Floor / Everett, WA 98201

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Bellingham, WA 98225 | f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: For Kevin Renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
STORM DRAIN DETAILS

DRAWING NUMBER:
C6.03

00760.034 07/31/25 RH

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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."

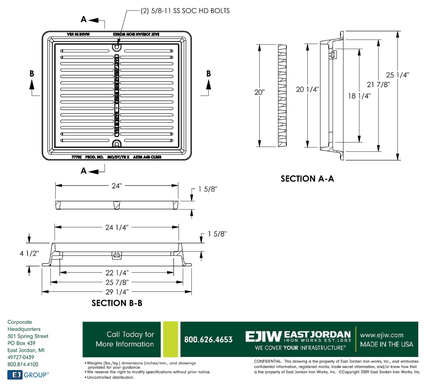
BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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

00760.035 07/31/25 RH

7770Z 7750M5 ASSEMBLY



SECTION A-A

SECTION B-B

PRODUCT NUMBER
00775036B01

DESIGN FEATURES
MATERIALS
GRATE:DUCTILE IRON ASTM A536
FRAME-GRAY IRON ASTM A48 CL35B
DESIGN LOAD
HEAVY DUTY
COATING
DIPPED
OPEN AREA
108 SQ. INCHES
√ DESIGNATES MACHINE SURFACE

REFERENCE INFORMATION
00777010
00775036

DRAWING DETAILS
ORIGINAL DRAWING: DEW 2/21/2011
REVISED BY: SMM 4/26/2011

Corporate Headquarters
301 Spring Street
PO Box 439
East Jordan, MI
49727-0439
800.874.4100
EJ GROUP

Call Today for More Information 800.626.4653 EJIW EAST JORDAN IRON WORKS, INC. WE COVER YOUR INFRASTRUCTURE www.ejiw.com MADE IN THE USA

• Weights (lbs./kg.) dimensions (inches/mm., and drawings are approximate and subject to change.
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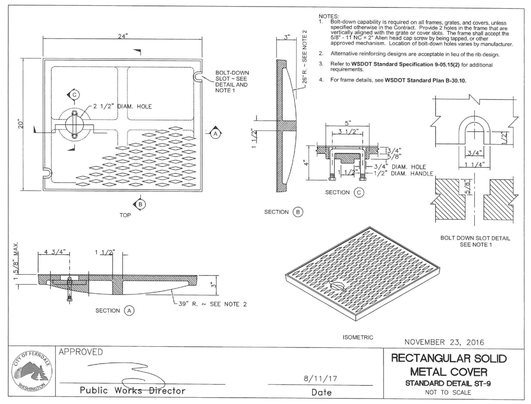
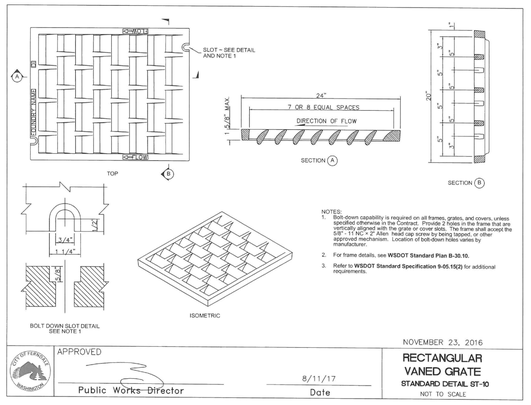
Ⓐ ADA FRAME & GRATE
nts



NOVEMBER 23, 2016

APPROVED		
Public Works Director	8/11/17 Date	RECTANGULAR SOLID METAL COVER STANDARD DETAIL ST-9 NOT TO SCALE

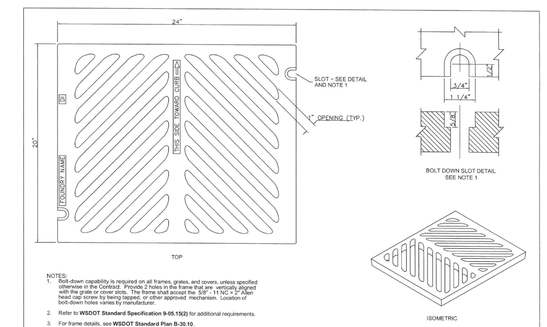
Ⓑ RECTANGULAR SOLID LID
nts



NOVEMBER 23, 2016

APPROVED		
Public Works Director	8/11/17 Date	RECTANGULAR VANED GRATE STANDARD DETAIL ST-10 NOT TO SCALE

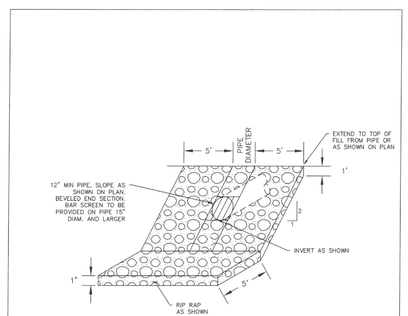
Ⓒ RECTANGULAR VANED GRATE
nts



NOVEMBER 23, 2016

APPROVED		
Public Works Director	8/11/17 Date	RECTANGULAR HERRINGBONE GRATE STANDARD DETAIL ST-11 NOT TO SCALE

Ⓓ RECTANGULAR HERRINGBONE GRATE
nts



NOTE:
1. THE CITY ENGINEER MAY REQUIRE THAT THE ENGINEER OF RECORD SIZE AND LOCATE SPALLS APPROPRIATELY FOR SITE SPECIFIC CONVEYANCE AND SLOPE PERCENT.

AUGUST 4, 2017

APPROVED		
Public Works Director	8/11/17 Date	CULVERT INLET OUTLET DETAIL STANDARD DETAIL ST-14 NOT TO SCALE

Ⓔ CULVERT OUTLET DETAIL
nts

BEDDING SPECIFICATIONS FOR PVC PIPE

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

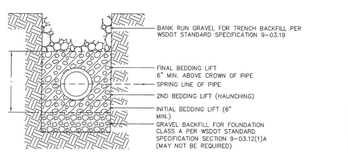
BEDDING FOR SEWERS, DRAINS AND CULVERTS FOR PVC PIPE–

BEDDING MATERIAL FOR PVC PIPE SHALL BE PEA GRAVEL CONFORMING TO THE FOLLOWING SPECIFICATIONS:

PEA GRAVEL – PEA GRAVEL BEDDING SHALL BE A CLEAN MIXTURE FREE FROM ORGANIC MATTER AND CONFORMING TO THE FOLLOWING GRADATION WHEN TESTED IN ACCORDANCE WITH ASTM D422:

U.S. STANDARD SIEVE SIZE	PERCENTAGE PASSING, BY WT.
3/4"	100
3/8"	95–100
#8	0–10
#200	0–3

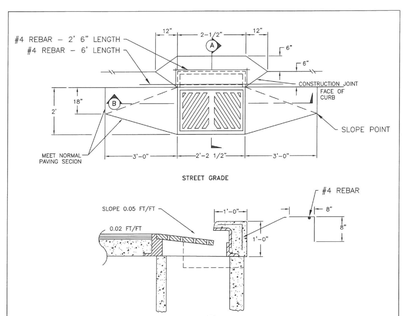
BACKFILL – WHENEVER A TRENCH IS EXCAVATED IN THE EXISTING OR PROPOSED ROADWAY, SIDEWALK OR OTHER AREAS WHERE SETTLEMENT WOULD BE DETRIMENTAL, THE ENTIRE TRENCH ABOVE THE PIPE ZONE SHALL BE BACKFILLED WITH BANK RUN GRAVEL BACKFILL TO 95% OF MAXIMUM DENSITY.



NOVEMBER 23, 2016

APPROVED		
Public Works Director	8/11/17 Date	PVC PIPE ZONE BEDDING STANDARD DETAIL ST-15 NOT TO SCALE

Ⓕ PIPE ZONE BEDDING
nts



NOVEMBER 25, 2016

APPROVED		
Public Works Director	8/11/17 Date	THRU-CURB INLET FRAME AND GRATE INSTALLATION STANDARD DETAIL R-8 NOT TO SCALE

Ⓖ THRU-CURB INLET
nts

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Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

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10/2/2024

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PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: for Kevin Renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

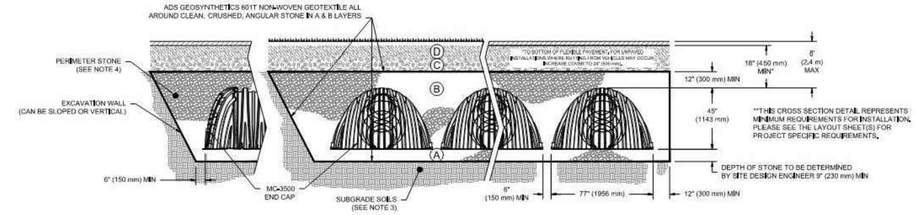
DRAWING TITLE:
STORM DRAIN DETAILS

DRAWING NUMBER:
C6.04

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[1]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[1]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS. A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

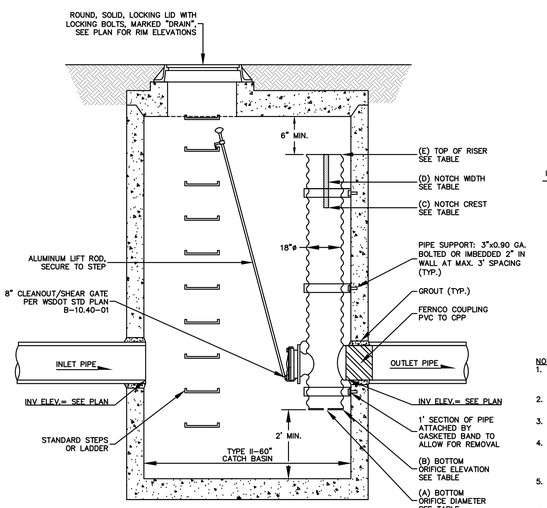
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

MC-3500 STANDARD CROSS SECTION
DATE: 12/27/23 DRAWN: SLS CHECKED: SLS
PROJECT #:
DESCRIPTION
NOTICE: THIS DRAWING AND DESIGN IS THE EXCLUSIVE PROPERTY OF ADS AND IS ISSUED SUBJECT TO THE CONDITIONS OF USE STATED IN THE AGREEMENT BETWEEN ADS AND THE PARTY TO WHOM IT IS ISSUED. ANY REPRODUCTION, USE OR DISCLOSURE WITHOUT THE WRITTEN CONSENT OF ADS IS PROHIBITED. ANY UNAUTHORIZED USE SHALL BE AT THE SOLE RISK OF THE USER. ADS ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE DESIGN WHEN THE DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS.
StormTech® Chamber System
ADS | 4640 TRUEMAN BLVD. HILLIARD, OH 43026
1 SHEET OF 1

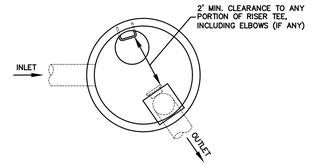
Ⓐ TYPICAL ADS STORMTECH DETENTION SYSTEM CROSS-SECTION
nts

CONTROL STRUCTURE DESIGN DATA

BASIN	STRUCTURE ID	(A) BOTTOM ORIFICE DIAMETER	(B) BOTTOM ORIFICE ELEVATION	(C) NOTCH CREST ELEVATION	(D) NOTCH WIDTH	(E) TOP OF RISER ELEVATION
FOOTBALL FIELD	SDCB #F2	1.56"ø	33.50	35.60	1.09"	36.50
BUS LOOP	SDCB #B1	1.11"ø	32.50	34.35	0.59"	35.50
CENTRAL COURTYARD	SDCB #C3	0.99"ø	31.50	33.35	0.44"	34.25
SW PARKING LOT	SDCB #W2	2.88"ø	31.50	34.60	1.32"	34.25
SPED LOOP	SDCB #S3	0.94"ø	31.50	33.35	0.50"	34.25



STRUCTURE SECTION VIEW

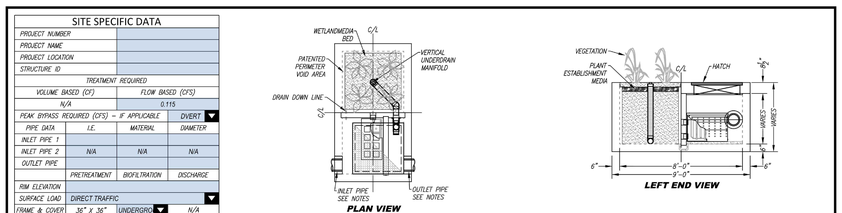


STRUCTURE PLAN VIEW

NOTES:
1. ALL ORIFICES TO BE FABRICATED BY SHOP DRILLING HOLES OF APPROPRIATE DIAMETER IN METAL PLATE, AND WELDING IT INTO PLACE AT THE BOTTOM OF THE MAIN RISER AND THE TWO ELBOWS.
2. PIPE SUPPORT BRACKETS AND THE RESTRICTOR/SEPARATOR SHALL BE OF THE SAME MATERIAL, AND BE ANCHORED AT 3' MAXIMUM SPACING.
3. ALL METAL PARTS SHALL BE CORROSION RESISTANT. ALL GALVANIZED STEEL PARTS SHALL BE ASPHALT TREATMENT 1 COATED.
4. THE RESTRICTOR/SEPARATOR STANDPIPE SHALL BE FABRICATED FROM 0.060" ALUMINUM, 0.064" ALUMINIZED STEEL, OR 0.064" GALVANIZED STEEL IN ACCORDANCE WITH AASHTO M36, M196, M197 AND M274. GALVANIZED STEEL SHALL BE ASPHALT TREATMENT 1 COATED. NON-GALVANIZED PARTS PREFERRED.
5. IF A METAL OUTLET PIPE CONNECTS TO A CEMENT CONCRETE PIPE, THE OUTLET PIPE SHALL HAVE A SMOOTH OUTSIDE DIAMETER EQUAL TO THE INSIDE DIAMETER OF THE CONCRETE PIPE LESS 1/4".
6. THE FRAME AND LADDER (OR STEPS) SHALL OFFSET SO THAT:
   A. THE CLEANOUT GATE IS VISIBLE FROM THE TOP.
   B. THE CLIMB DOWN CLEAR SPACE OF 2 FEET IS BETWEEN THE RISER AND CLEANOUT GATE.
   C. THE FRAME IS CLEAR OF THE CURB. (IF APPLICABLE)
7. OUTLET CAPACITY: 100 YEAR DEVELOPED FLOW

Ⓑ TYPICAL DETENTION FLOW CONTROL STRUCTURE
nts

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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: _____ DATE: 10/2/2024



NOTE:
1. CONTRACTOR SHALL PROVIDE VERIFICATION OF ACTIVATION TO THE CITY PRIOR TO FINAL PROJECT ACCEPTANCE.

Ⓒ STORMWATER FILTER VAULT
nts

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

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FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ — STATE OF WASHINGTON — 46343 — REGISTERED PROFESSIONAL ENGINEER — 10/2/2024

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER: 2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ FOR ICC v.in 8202
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STORMWATER DETENTION DETAILS

DRAWING NUMBER:

C6.05

00760.036 07/31/25 RH

BIORETENTION CONSTRUCTION SPECS

INSTALLATION SPECIFICATIONS

1. BIORETENTION AREAS SHALL REMAIN FREE OF ALL CONSTRUCTION MATERIALS (CONCRETE SLURRY, GYPSUM BOARD, PLYWOOD, NAILS, SCREWS, ETC.)
2. PREVENT OVER COMPACTION OF SUBGRADE SOIL. THIS IS CRITICAL FOR PERFORMANCE OF THE FACILITY.
3. NO EXCAVATION, SOIL PLACEMENT, OR SOIL AMENDMENT SHALL TAKE PLACE DURING WET OR SATURATED CONDITIONS. SEE SOIL PLACEMENT NOTE FOR ADDITIONAL INFORMATION.
4. OPERATE EQUIPMENT ADJACENT TO, NOT IN, THE FACILITY.
5. IF MACHINERY MUST OPERATE IN THE FACILITY, USE LIGHT WEIGHT, LOW GROUND CONTACT PRESSURE EQUIPMENT.
6. EXCAVATE BIORETENTION FACILITY WITH TOOTHED BUCKET. SCARIFY SUBGRADE TO FRACTURE SOIL AND TILL IN BSM AT INTERFACE. SCARIFICATION DEPTH TO BE A MINIMUM OF FOUR INCHES.

PLANT SPECIFICATIONS

1. SEE LANDSCAPING PLANS FOR PLANTINGS WITHIN BIORETENTION CELLS.

MULCH/ORGANIC LAYER SPECIFICATIONS

1. 2–3 INCH LAYER OF SHREDDED WOOD MULCH (COARSE PARTICLE SIZE – 2"–3" LENGTH) IS REQUIRED (HOG FUEL IS ACCEPTABLE).
2. MULCH SHALL BE SPREAD BY HAND–TOOLS ONLY (NO HEAVY EQUIPMENT IS TO BE USED WITHIN THE BIORETENTION IN ORDER TO AVOID COMPACTION).
3. THE MULCH MATERIAL PROVIDES FOR THE DECOMPOSITION OF ORGANIC MATERIAL, AND ALSO PLAYS AN IMPORTANT ROLE IN THE REMOVAL OF METALS. SHREDDED HARDWOOD MULCH ALLOWS FOR MAXIMUM SURFACE AREA FOR BINDING AND RESISTS FLOTATION/WASHOUT.
4. EACH SPRING, THE BIORETENTION SHALL BE RE–MULCHED WITH 2–3 INCHES OF HARDWOOD MULCH.

SOIL PLACEMENT

1. ON–SITE SOIL MIXING OR PLACEMENT IS NOT ALLOWED IF SOIL IS SATURATED OR SUBJECT TO WATER WITHIN 48 HOURS.
2. PLACEMENT OF THE TOPSOIL SHALL BE IN LIFTS OF 8 INCHES OR LESS AND LIGHTLY COMPACTED (80%).
3. MINIMAL COMPACTION EFFORT CAN BE APPLIED TO THE SOIL BY TAMPING WITH A BUCKET FROM A BACKHOE FROM THE SIDE OF THE LANDSCAPE AREAS (AVOID DRIVING OVER PLACED TOPSOIL).
4. CONTRACTOR SHALL OBTAIN MATERIAL SAMPLES AND TEST RESULTS FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO INSTALLING THE BIORETENTION SOILS.

PERFORATED PIPE SPECIFICATIONS

1. MINIMUM PIPE DIAMETER:4 INCHES (PIPE DIAMETER WILL DEPEND ON HYDRAULIC CAPACITY REQUIRED, 4 TO 8 INCHES IS COMMON). SEE PLAN VIEW FOR PIPE SIZE.
2. SLOTTED SUBSURFACE DRAIN PVC PER ASTM D1785 SCH DR35 OR PER PLAN.
3. SLOTS SHOULD BE CUT PERPENDICULAR TO THE LONG AXIS OF THE PIPE AND BE 0.04 TO 0.069 INCHES BY 1 INCH LONG AND BE SPACED 0.25 INCHES APART (SPACED LONGITUDINALLY). SLOTS SHOULD BE ARRANGED IN FOUR ROWS SPACED ON 45–DEGREE CENTERS AND COVER ½ OF THE CIRCUMFERENCE OF THE PIPE.

UNDERDRAIN PIPE BEDDING SPECIFICATIONS

1. USE TYPE 26 MINERAL AGGREGATE (GRAVEL BACKFILL FOR DRAINS, CITY OF SEATTLE).
2. PLACE UNDER–DRAIN ON A BED OF TYPE 26 AGGREGATE WITH A MINIMUM THICKNESS OF 4 INCHES. PROVIDE 6 INCHES MINIMUM COVER AND 1–FOOT MINIMUM DEPTH AROUND THE SIDES OF THE SLOTTED PIPE.

MINERAL AGGREGATE GRADATION	
U.S. SIEVE NUMBER	PERCENT PASSING
3/4"	100
1/4"	30–60
US NO. 8	20–50
US NO. 50	3–12
US NO. 200	0–1

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC)

CONTROLLING EROSION AND SEDIMENT ARE MOST DIFFICULT DURING CLEARING, GRADING, AND CONSTRUCTION; ACCORDINGLY, MINIMIZING SITE DISTURBANCES TO THE GREATEST EXTENT PRACTICABLE IS THE MOST EFFECTIVE SEDIMENT MANAGEMENT. ALWAYS KEEP CONSTRUCTION TRAFFIC OFF OF BIORETENTION AREA.

1. BIORETENTION AREAS SHOULD NOT BE USED AS SEDIMENT CONTROL FACILITIES AND ALL DRAINAGE SHOULD BE DIRECTED AWAY FROM BIORETENTION AREAS AFTER INITIAL ROUGH GRADING. FLOW CAN BE DIRECTED AWAY FROM THE FACILITY WITH TEMPORARY DIVERSION SWALES OR OTHER APPROVED PROTECTION.
2. CONSTRUCTION ON BIORETENTION FACILITIES SHOULD NOT BEGIN UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED ACCORDING TO EROSION AND SEDIMENT CONTROL BMPs.
3. IF THE DESIGN INCLUDES CURB AND GUTTER, THE CURB CUTS AND INLETS SHOULD BE BLOCKED UNTIL BSM AND MULCH HAVE BEEN PLACED AND PLANTING IS COMPLETED.

IF IT BECOMES UNAVOIDABLE TO PREVENT STORMWATER RUNOFF FROM ENTERING THE BIORETENTION FACILITY DURING CONSTRUCTION, ADDITIONAL SEDIMENT CONTROLS AND ALTERED CONSTRUCTION TECHNIQUES MUST BE EMPLOYED.

WITHOUT UNDERDRAIN:

1. INSTALL ADDITIONAL SEDIMENT CONTROLS, SUCH AS A TEMPORARY FOREBAY TO LOCALIZE SEDIMENT.
2. LEAVE TEMPORARY GRADE AT LEAST 6 INCHES ABOVE FINAL GRADE.
3. LINE BIORETENTION FACILITY WITH PLASTIC OR 6 INCH THICK BLANKET OF MULCH.

WITH UNDERDRAIN:

4. PLACE UNDER–DRAIN AND AGGREGATE FILTER AND BEDDING LAYER WHILE MAINTAINING A TEMPORARY GRADE AT LEAST 6 INCHES ABOVE FINAL GRADE IN THE BIORETENTION AREA.
5. PLACE PROTECTIVE COVERING (PLASTIC OR FILTER FABRIC) OVER UNDER–DRAIN AGGREGATE FILTER AND BEDDING LAYER AND COVER WITH A PROTECTIVE LAYER OF SANDY AGGREGATE.

BIORETENTION SOIL MIX (BSM) SOIL SPECIFICATIONS

MINERAL AGGREGATE

PERCENT FINES: A RANGE OF 2 TO 4 PERCENT PASSING THE #200 SIEVE IS IDEAL AND FINES SHOULD NOT BE ABOVE 5 PERCENT FOR A PROPER FUNCTIONING SPECIFICATION ACCORDING TO ASTM D422.

AGGREGATE GRADATION

THE AGGREGATE PORTION OF THE BSM SHOULD BE WELL–GRADED. ACCORDING TO ASTM D 2487–98 (CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM)), WELL–GRADED SAND SHOULD HAVE THE FOLLOWING GRADATION COEFFICIENTS:

- COEFFICIENT OF UNIFORMITY (CU = D60/D10) EQUAL TO OR GREATER THAN 4, AND
- COEFFICIENT OF CURVE (CC = (D30)2/D60 X D10) GREATER THAN OR EQUAL TO 1 AND LESS THAN OR EQUAL TO 3.

TABLE BELOW PROVIDES A GRADATION GUIDELINE FOR THE AGGREGATE COMPONENT OF A BIORETENTION SOIL MIX SPECIFICATION IN WESTERN WASHINGTON (HINMAN, ROBERTSON, 2007). THE SAND GRADATION BELOW IS OFTEN SUPPLIED AS A WELLGRADED UTILITY OR SCREENED. WITH COMPOST THIS BLEND PROVIDES ENOUGH FINES FOR ADEQUATE WATER RETENTION, HYDRAULIC CONDUCTIVITY WITHIN RECOMMENDED RANGE (SEE BELOW), POLLUTANT REMOVAL CAPABILITY, AND PLANT GROWTH CHARACTERISTICS FOR MEETING DESIGN GUIDELINES AND OBJECTIVES.

MINERAL AGGREGATE GRADATION	
U.S. SIEVE NUMBER	PERCENT PASSING
3/8	100
4	95–100
10	75–90
40	25–40
100	4–10
200	2–5

WHERE EXISTING SOILS MEET THE ABOVE AGGREGATE GRADATION, THOSE SOILS MAY BE AMENDED RATHER THAN IMPORTING MINERAL AGGREGATE.

COMPOST TO AGGREGATE RATIO, ORGANIC MATTER CONTENT, CATION EXCHANGE CAPACITY

- COMPOST TO AGGREGATE RATIO: 60–65 PERCENT MINERAL AGGREGATE, 35 – 40 PERCENT COMPOST.
- ORGANIC MATTER CONTENT: 5 – 8 PERCENT BY WEIGHT.
- CATION EXCHANGE CAPACITY (CEC) MUST BE > 5 MILLEQUIVALENTS/100 G DRY SOIL NOTE: SOIL MIXES MEETING THE ABOVE SPECIFICATIONS DO NOT HAVE TO BE TESTED FOR CEC. THEY WILL READILY MEET THE MINIMUM CEC.

COMPOST

TO ENSURE THAT THE BSM WILL SUPPORT HEALTHY PLANT GROWTH AND ROOT DEVELOPMENT, CONTRIBUTE TO BIOFILTRATION OF POLLUTANTS, AND NOT RESTRICT INFILTRATION WHEN USED IN THE PROPORTIONS CITED HEREIN, THE FOLLOWING COMPOST STANDARDS ARE REQUIRED.

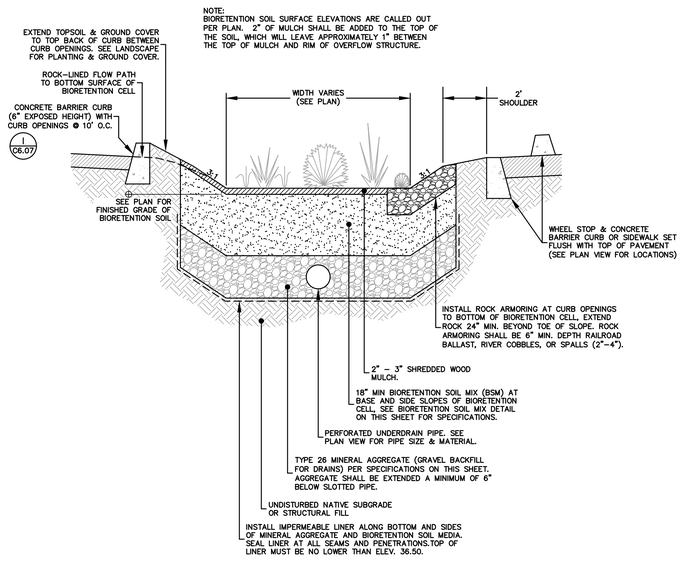
- MEETS THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173–350–220 (INCLUDING CONTAMINANT LEVELS AND OTHER STANDARDS), AVAILABLE ONLINE AT HTTP://WWW.ECY.WA.GOV/PROGRAMS/SWFA/ORGANICS/SOIL.HTML
- PRODUCED AT A COMPOSTING FACILITY PERMITTED BY THE WA DEPARTMENT OF ECOLOGY. A CURRENT LIST OF PERMITTED FACILITIES IS AVAILABLE AT HTTP://WWW.ECY.WA.GOV/PROGRAMS/SWFA/COMPOST/
- THE COMPOST PRODUCT MUST ORIGINATE A MINIMUM OF 65 PERCENT BY VOLUME FROM RECYCLED PLANT WASTE AS DEFINED IN WAC 173–350–100 AS "TYPE I FEEDSTOCKS." A MAXIMUM OF 35 PERCENT BY VOLUME OF OTHER APPROVED ORGANIC WASTE AS DEFINED IN WAC 173–350–100 AS "TYPE III", INCLUDING POSTCONSUMER FOOD WASTE, BUT NOT INCLUDING BIOSOLIDS, MAY BE SUBSTITUTED FOR RECYCLED PLANT WASTE. TYPE II AND IV FEEDSTOCKS SHALL NOT BE USED FOR THE COMPOST GOING INTO BIORETENTION FACILITIES OR BIORETENTIONS.
- STABLE (LOW OXYGEN USE AND CO2 GENERATION) AND MATURE (CAPABLE OF SUPPORTING PLANT GROWTH) BY TESTS SHOWN BELOW. THIS IS CRITICAL TO PLANT SUCCESS IN A BIORETENTION SOIL MIXES.
- MOISTURE CONTENT RANGE: NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING THE MATERIAL.
- TESTED IN ACCORDANCE WITH THE U.S. COMPOSTING COUNCIL "TESTING METHODS FOR THE EXAMINATION OF COMPOST AND COMPOSTING" (TMECC), AS ESTABLISHED IN THE COMPOSTING COUNCIL'S "SEAL OF TESTING ASSURANCE" (STA) PROGRAM. MOST WASHINGTON COMPOST FACILITIES NOW USE THESE TESTS.
- SCREENED TO THE SIZE GRADATIONS FOR FINE COMPOST UNDER TMECC TEST METHOD 02.02–B (GRADATIONS ARE SHOWN IN THE SPECIFICATION IN AN APPENDIX OF THE LOW IMPACT DEVELOPMENT TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND)

PH BETWEEN 6.0 AND 8.5 (TMECC 04.11–A). IF THE PH FALLS OUTSIDE OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED WITH LIME TO INCREASE THE PH OR IRON SULFATE PLUS SULFUR TO LOWER THE PH. THE LIME OR IRON SULFATE MUST BE MIXED UNIFORMLY
INTO THE SOIL PRIOR TO USE IN THE BIORETENTION AREA.

- MANUFACTURED INERT CONTENT LESS THAT 1% BY WEIGHT (TMECC 03.08–A)
- MINIMUM ORGANIC MATTER CONTENT OF 40% (TMECC 05.07–A)
- SOLUBLE SALT CONTENT LESS THAN 4.0 MMHOS/CM (TMECC 04.10–A)
- MATURITY GREATER THAN 80% (TMECC 05.05–A "GERMINATION AND VIGOR")
- STABILITY OF 7 OR BELOW (TMECC 05.08–B "CARBON DIOXIDE EVOLUTION RATE")
- CARBON TO NITROGEN RATIO (TMECC 04.01 "TOTAL CARBON" AND 04.02D "TOTAL KJELDAHL NITROGEN") OF
  LESS THAN 25:1. THE C:N RATIO MAY BE UP TO 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PUGET SOUND
  LOWLAND NATIVE SPECIES AND UP TO 40:1 FOR COARSE COMPOST TO BE USED
  AS A SURFACE MULCH (NOT IN A SOIL MIX).

INSPECTION NOTE

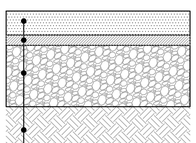
THE ENGINEER OF RECORD MUST CERTIFY CONSTRUCTION AND DESIGN OF ALL PROPOSED ON–SITE BIORETENTION FACILITIES. DIMENSIONS OF FIELDS, SOILS OBSERVATIONS, AND IMPORT MATERIAL PLACEMENT AS DESIGNED AND PROPOSED WILL BE INSPECTED AND APPROVED BY THE ENGINEER OF RECORD AND/OR THE ASSIGNED AGENCY FOR SPECIAL INSPECTIONS AND TESTING TO PROVIDE CERTIFICATION. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER OF RECORD AND/OR THE AGENCY FOR SPECIAL INSPECTIONS AND TESTING TO SCHEDULE THE INSPECTIONS AND TO PROVIDE WRITTEN CERTIFICATION AT PROJECT COMPLETION. CITY INSPECTORS WILL DOCUMENT, PICTURE, AND MONITOR CONSTRUCTION FOR CITY RECORDS ONLY AND WILL ALERT THE ENGINEER OF INCONSISTENCIES AS NEEDED, BUT WILL FOCUS ON INSPECTION OF CONNECTING INFRASTRUCTURE AND CONVEYANCE LEADING TO THE SURROUNDING CITY STORM SYSTEM. ALL PROPOSED FACILITIES WILL BE CLEARLY LOCATED AND MARKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION AND INSPECTION.



A BIORETENTION CELL SPECIFICATIONS
nts

GENERAL NOTES:

1. ALL DEPTHS REPRESENT COMPACTED DEPTHS.
2. CHOKER COURSE SHALL CONSIST OF 1.5 INCH TO 0.25 INCH UNIFORMLY GRADED CRUSHED WASHED STONE OR SIMILAR.
3. ALL TOPSOIL SHALL BE REMOVED UNDER PAVEMENT SECTION.
4. AFTER GRADING, THE EXISTING SUBRADE SHALL NOT BE COMPACTED OR SUBJECTED TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC.
5. IMMEDIATELY BEFORE BASE AGGREGATE AND CONCRETE PLACEMENT, REMOVE ANY ACCUMULATION OF FINE MATERIAL FROM EROSION WITH LIGHT EQUIPMENT AND SCARIFY SOIL TO A MINIMUM DEPTH OF 6 INCHES.
6. EROSION AND INTRODUCTION OF SEDIMENT SHALL BE STRICTLY CONTROLLED DURING AND AFTER CONSTRUCTION TO PREVENT CLOGGING OF THE VOID SPACES IN THE BASE MATERIAL AND PERMEABLE SURFACE.
7. A QUALIFIED GEOTECHNICAL PROFESSIONAL MUST BE PRESENT DURING THE EXCAVATION OF THE PERMEABLE CONCRETE SUBGRADE TO ENSURE THAT THE DESIGN ASSUMPTIONS MADE REGARDING THE LONG TERM INFILTRATION RATES, SOIL CONDITIONS, AND INFILTRATION CHARACTERISTICS MEET THE APPROVED DESIGN. THIS SHALL BE ACCOMPLISHED BY PROVIDING THE CITY A MEMORANDUM, SIGNED AND SEALED BY THE PROJECT GEOTECHNICAL ENGINEER OR GEOLOGIST STATING THE FOUND GEOLOGICAL CONDITIONS MATCH THE APPROVED DESIGN.
8. MINIMUM INFILTRATION RATE SHOULD BE 200 IN/HR PER ASTM C1701.
9. TOTAL VOID SPACE 16%–25% PER ASTM D3203 FOR PERMEABLE ASPHALT WEARING COURSE.



ASPHALT AGGREGATE GRADATION	
U.S. SIEVE NUMBER	PERCENT PASSING
3/4"	100
1/2"	90 – 100
3/8"	70 – 90
4	20 – 40
8	10 – 20
40	7 – 13
200	0 – 3

3" PERMEABLE ASPHALT PAVEMENT WITH MINIMUM PERFORMANCE GRADE 58H–22. AGGREGATE GRADATION SPECIFICATION PER CHART.
2" GRAVEL CHOKER COURSE PER WSDOT 9–03.1(2)B
7" MININMUM DEPTH PERMEABLE BALLAST PER WSDOT 9–03.9(2) (AGGREGATE SHALL HAVE 70% MIN & 90% PREFERRED FRACTURED FACE) SEE LANDSCAPE FOR SUBGRADE GRADING & BALLAST DEPTH
EXISTING SUBGRADE OR STRUCTURAL FILL COMPACTED TO 95% MAX DENSITY
NATIVE SUBGRADE

SUBGRADE AND GRAVEL BASE NOTES:

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

(2) STRUCTURAL FILL MUST 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 CRUSHED ROCK.

(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 MUST 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 MUST NOTIFY THE ENGINEER OF RECORD IN WRITING. GEOTECHNICAL RECOMENDATIONS/APPROVAL MUST ACCOMPANY THE NOTIFICATION.

(5) PAVEMENT SUBGRADE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO FILL OR PAVING

(6) HOT MIX ASPHALT ON SITE MAY BE RECYCLED WITHIN THE PARAMETERS ESTABLISHED BY WSDOT STANDARD SPECIFICATION 9–03.21, INCLUDING THE MAXIMUM ALLOWABLE PERCENTAGES LISTED IN TABLE 9–03.21(1)E.

B PERMEABLE ASPHALT PAVEMENT
nts

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BY: _____ DATE: 10/2/2024

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

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net | 1716 West Marine View Drive
425.259.3161 (T) | 2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ — STATE OF WASHINGTON — 36343 — REGISTERED PROFESSIONAL ENGINEER — 7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER: 2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE: STORMWATER MANAGEMENT DETAILS

DRAWING NUMBER: C6.06

00760.037 07/31/25 PH

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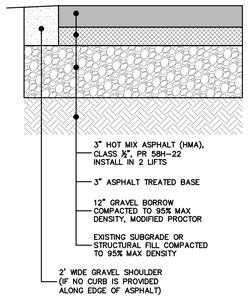
NOTE:
ALL DEPTHS REPRESENT COMPACTED THICKNESSES.



SUBGRADE AND GRAVEL BASE NOTES:

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

(2) STRUCTURAL FILL MUST 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 CRUSHED ROCK.

(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 MUST MONITOR THE WEATHER AND DETERMINE THE APPROPRIATE FILL TO UTILIZE ON SITE TO ENSURE THAT THE ABOVE COMPACTION REQUIREMENTS ARE MET.

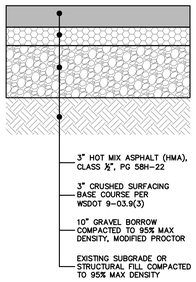
(4) IF APPROVED BY A GEOTECHNICAL ENGINEER, STRUCTURAL FILL NOT MEETING THE ABOVE REQUIREMENTS CAN BE USED FOR FILL BELOW 24" OF FINAL GRADE. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF RECORD IN WRITING. GEOTECHNICAL RECOMENDATIONS/APPROVAL MUST ACCOMPANY THE NOTIFICATION.

(5) PAVEMENT SUBGRADE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO FILL OR PAVING

(6) HOT MIX ASPHALT ON SITE MAY BE RECYCLED WITHIN THE PARAMETERS ESTABLISHED BY WSDOT STANDARD SPECIFICATION 9-03.21, INCLUDING THE MAXIMUM ALLOWABLE PERCENTAGES LISTED IN TABLE 9-03.21(1)E.

A ASPHALT PAVEMENT (HEAVY DUTY)
nts

NOTE:
ALL DEPTHS REPRESENT COMPACTED THICKNESSES.



SUBGRADE AND GRAVEL BASE NOTES:

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

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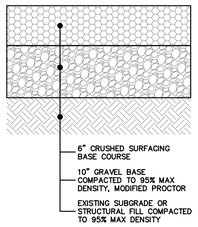
(5) PAVEMENT SUBGRADE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO FILL OR PAVING

(6) HOT MIX ASPHALT ON SITE MAY BE RECYCLED WITHIN THE PARAMETERS ESTABLISHED BY WSDOT STANDARD SPECIFICATION 9-03.21, INCLUDING THE MAXIMUM ALLOWABLE PERCENTAGES LISTED IN TABLE 9-03.21(1)E.

B ASPHALT PAVEMENT (LIGHT DUTY)
nts

NOTE:
ALL DEPTHS REPRESENT COMPACTED THICKNESSES.



SUBGRADE AND GRAVEL BASE NOTES:

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(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 MUST NOTIFY THE ENGINEER OF RECORD IN WRITING. GEOTECHNICAL RECOMENDATIONS/APPROVAL MUST ACCOMPANY THE NOTIFICATION.

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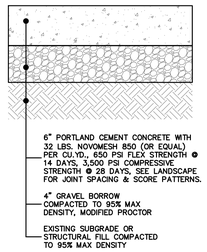
C GRAVEL SURFACING
nts

NOTES:
1. ALL DEPTHS REPRESENT COMPACTED THICKNESSES.
2. CONTROL JOINTS SHALL BE 1/4 DEPTH OF SLAB. SEE LANDSCAPE FOR JOINT SPACING & SCORE PATTERNS.
3. ALL CONSTRUCTION JOINTS SHALL BE DOWELED.



SUBGRADE AND GRAVEL BASE NOTES:

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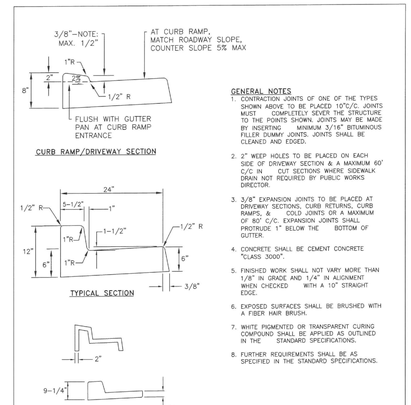
D CONCRETE PAVEMENT (HEAVY DUTY)
nts

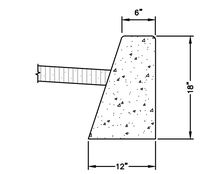


GENERAL NOTES
1. CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10'C/C. JOINTS MUST COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MINIMUM 3/16" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.
2. 2" WEEP HOLES TO BE PLACED ON EACH SIDE OF DRIVEWAY SECTION @ A MAXIMUM 60' C/C IN CUT SECTIONS WHERE SIDEWALK DRAIN NOT REQUIRED BY PUBLIC WORKS DIRECTOR.
3. 3/8" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS, & COLD JOINTS OR A MAXIMUM OF 80' C/C. EXPANSION JOINTS SHALL PROTRUDE 1" BELOW THE BOTTOM OF GUTTER.
4. CONCRETE SHALL BE CEMENT CONCRETE "CLASS 3000".
5. FINISHED WORK SHALL NOT VARY MORE THAN 1/8" IN GRADE AND 1/4" IN ALIGNMENT WHEN CHECKED WITH A 10' STRAIGHT EDGE.
6. EXPOSED SURFACES SHALL BE BRUSHED WITH A FIBER HAIR BRUSH.
7. WHITE PIGMENTED OR TRANSPARENT CURING COMPOUND SHALL BE APPLIED AS OUTLINED IN THE STANDARD SPECIFICATIONS.
8. FURTHER REQUIREMENTS SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

NOVEMBER 25, 2016

APPROVED		
Public Works Director	8/11/17 Date	CURB AND GUTTER INSTALLATION STANDARD DETAIL R-9 NOT TO SCALE

E CONCRETE CURB & GUTTER
nts

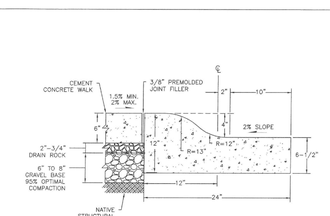


TYPE "E" BARRIER CURB

– DUMMY JOINTS SHALL EXTEND 2" BELOW GUTTER LINE, BE MINIMUM OF 3/16" THICK AND BE 10' C/C. PARTIAL DIVISION PLATES MAY BE USED IN LIEU OF DUMMY JOINTS.

– CONCRETE SHALL BE CLASS "C". (3000 PSI)

F BARRIER CURB
nts



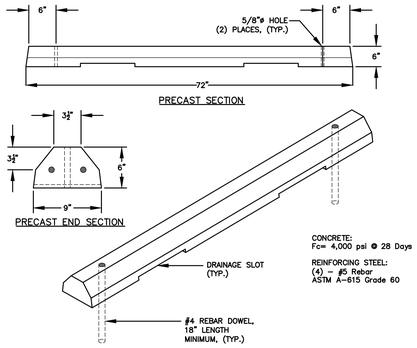
CEMENT CONCRETE ROLLED CURB

GENERAL NOTES
1. CONTRACTION JOINTS OF ONE OF THESE TYPES SHOWN ABOVE TO BE PLACED 10' C/C. COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MIN. 3/8" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000 PSI.
3. FINISHED WORK SHALL NOT VARY MORE THAN 1/8" IN GRADE AND 1/4" IN ALIGNMENT WHEN CHECKED WITH 10' STRAIGHT EDGE.
4. EXPOSED SURFACES SHALL BE BRUSHED WITH A FIBER HAIR BRUSH.
5. WHITE PIGMENTED OR TRANSPARENT CURING COMPOUND SHALL BE APPLIED AS OUTLINED IN THE STANDARD SPECIFICATIONS.
6. FURTHER REQUIREMENTS SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
7. ROLLED CURB SHALL ONLY BE USED WITH A 6" THICK SIDEWALK SECTION.
8. USE OF ROLLED CURB IS NOT PREFERRED AND IS SUBJECT TO PUBLIC WORKS DIRECTOR DISCRETION FOR USE AND APPROVAL.
9. BACK OF WALK DRAINS REQUIRED FOR ALL APPROVED ROLLED CURB APPLICATIONS.
10. USE OF LOUVERED GRATES REQUIRED FOR ALL APPROVED ROLLED CURB APPLICATIONS.

APRIL 27, 2018

APPROVED		
Public Works Director	4/27/18 Date	ROLLED CURB AND GUTTER STANDARD DETAIL R-9A NOT TO SCALE

G ROLLED CURB
nts

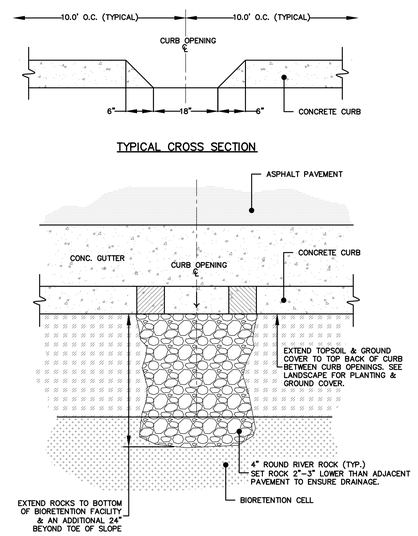


CONCRETE:
F'c= 4,000 psi @ 28 Days

REINFORCING STEEL:
(4) – #5 Rebar
ASTM A-615 Grade 60

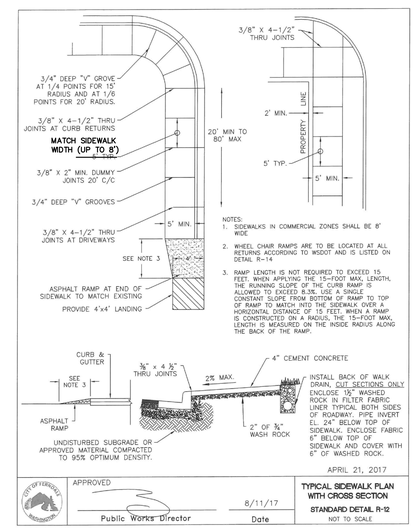
DRAINAGE NOTE:
WHEEL STOPS SHALL BE SLOTTED TO ALLOW SURFACE FLOW PAST WHEEL STOPS.

H WHEEL STOP
nts



I CURB OPENING AT BIORETENTION CELLS
nts

NOTES:
1. CONTRACTION JOINTS SHALL BE TOOLED. CONTRACTION JOINT DEPTH SHALL BE 1/4 THE DEPTH OF THE SLAB.
2. JOINT SPACING IN LINEAR SIDEWALKS UP TO 8' IN WIDTH SHALL MATCH THE WIDTH OF THE SIDEWALK.
3. CONCRETE PAVEMENT IN AREAS THAT ARE NOT SUBJECT TO ROUTINE VEHICULAR TRAFFIC SHALL USE THE PAVEMENT SECTION SPECIFIED IN THIS DETAIL. CONTRACTION JOINT SPACING SHALL NOT EXCEED 8'.
4. INSTALL EXPANSION MATERIAL AT ALL LOCATIONS WHERE PAVEMENT ABUTS STRUCTURES INCLUDING, BUT NOT LIMITED TO BUILDINGS, UTILITY VAULTS, CATCH BASINS, CURBS, ETC.
5. SEE LANDSCAPE PLANS FOR ORIENTATION OF JOINTS/SCORING PATTERNS.



APRIL 21, 2017

APPROVED		
Public Works Director	8/11/17 Date	TYPICAL SIDEWALK PLAN WITH CROSS SECTION STANDARD DETAIL R-12 NOT TO SCALE

J CONCRETE SIDEWALK
nts

00760.038 07/31/25 RH

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
425.259.3161 (T)
1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 T: 360.650.1408
Bellingham, WA 98225 F: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ — STATE OF WASHINGTON — 46343 — REGISTERED PROFESSIONAL ENGINEER — 7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:
2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:
PAVING & GRADING DETAILS

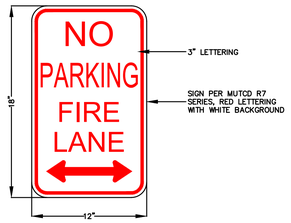
DRAWING NUMBER:
C6.07

ENGINEER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THE IMPROVEMENTS OF FERNDALE HIGH SCHOOL 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."

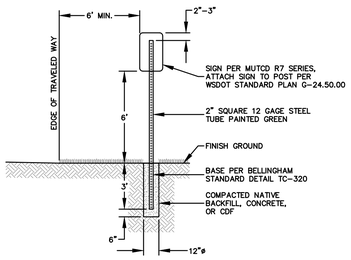
BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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

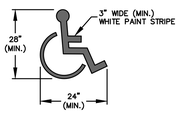


SIGN DETAIL

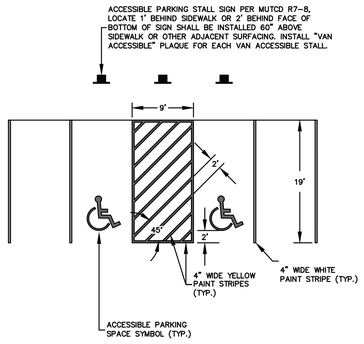


INSTALLATION DETAIL

NOTE:
SEE PLAN FOR FOR ACTUAL CONFIGURATION & LOCATIONS OF ACCESSIBLE STALLS & AISLES



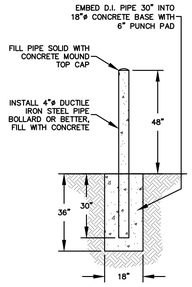
ACCESSIBLE PARKING SYMBOL

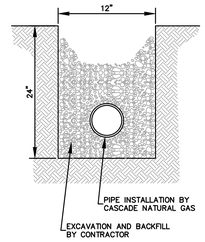


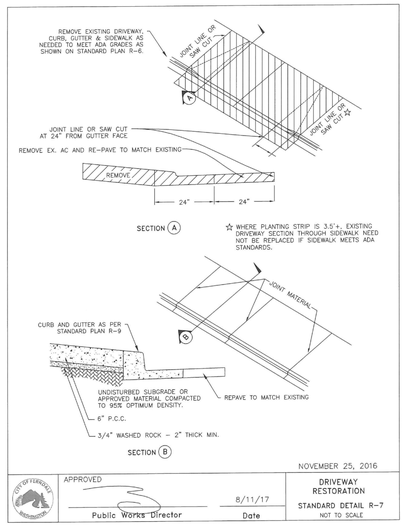
STALL LAYOUT

BOLLARD NOTES:

1. BOLLARDS SHALL BE 4" DIAMETER DUCTILE IRON POSTS SET IN 36" OF CONCRETE AT LEAST 18" IN DIAMETER. THE INSIDE OF POSTS SHALL ALSO BE FILLED WITH CONCRETE WITH SMOOTH MOUND AS TOP CAP.
2. BOLLARDS SHALL BE LOCATED AT LEAST 2' AWAY FROM STRUCTURES @ ±5' O.C.
3. BOLLARDS SHALL EXTEND ABOVE GROUND TO A MINIMUM HEIGHT OF 4'.
4. BOLLARDS SHALL BE OF SUFFICIENT NUMBER TO PROTECT THE STRUCTURE, MINIMUM OF 2.
5. PAINT BOLLARDS RUSTOLEUM YELLOW.







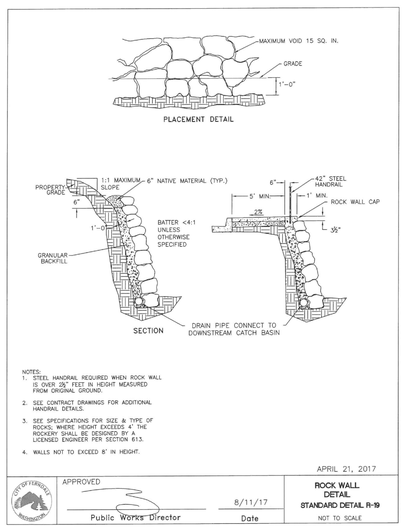
A FIRE LANE SIGN
nts

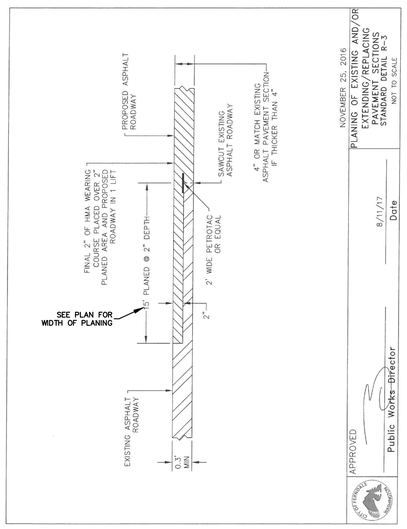
B ADA PARKING STALL LAYOUT
nts

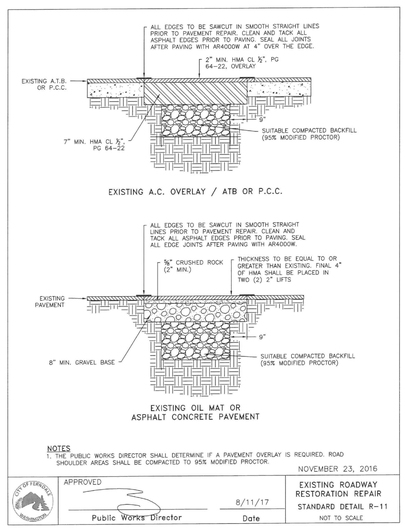
C PIPE BOLLARD
nts

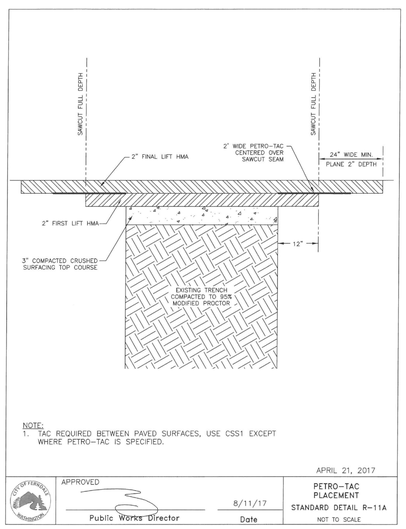
D NATURAL GAS TRENCH
nts

E EXISTING DRIVEWAY RESTORATION
nts









F GRAVITY ROCK WALL
nts

G EXISTING PAVEMENT PLANING
nts

H ROADWAY RESTORATION REPAIR
nts

I EXISTING PAVEMENT PLANING
nts

00760.039 07/31/25 RH

DYKEMAN
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1716 West Marine View Drive
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CONSULTANT:

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Bellingham, WA 98225 F: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16349
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
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Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ FOR KEVIN BENZ
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

SITE DETAILS

DRAWING NUMBER:

C6.08

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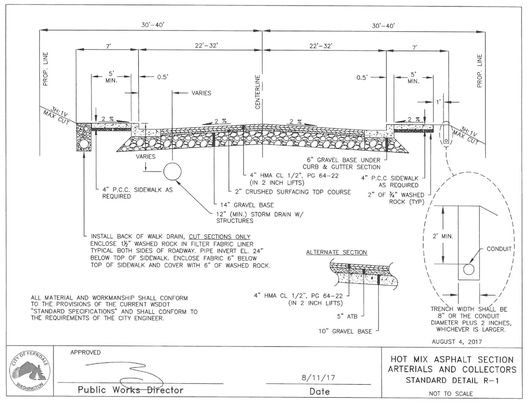
BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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

INSPECTION NOTE

MATERIAL USAGE, SOIL OBSERVATIONS, AND NECESSARY COMPACTION REQUIRED TO MEET CITY STANDARDS AND SPECIFICATIONS WITHIN CITY RIGHT OF WAY MUST BE DONE BY A LICENSED GEOTECHNICAL ENGINEER. VERIFICATION OF SAMPLES AND TESTING WILL BE REQUIRED PRIOR TO FINAL CITY PROJECT ACCEPTANCE.



INSPECTION NOTE

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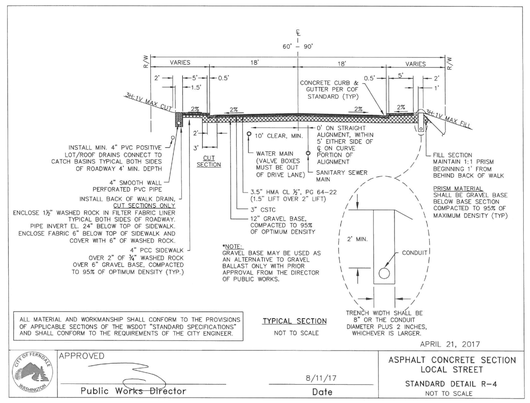

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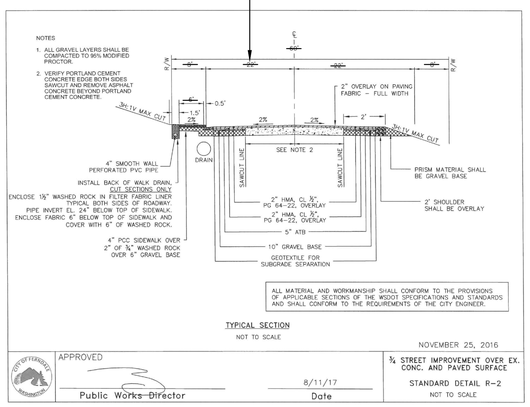
STREET & R.O.W. WIDTHS REVISED AS SPECIFIED BY CITY STAFF PER THIS PROJECT'S PRE-APPLICATION MEETING. SEE DETAIL A, SHEET C6.11 FOR PROJECT-SPECIFIC WIDTHS. (TYP.)



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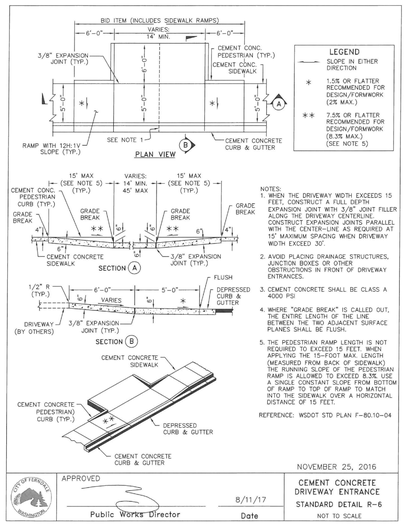

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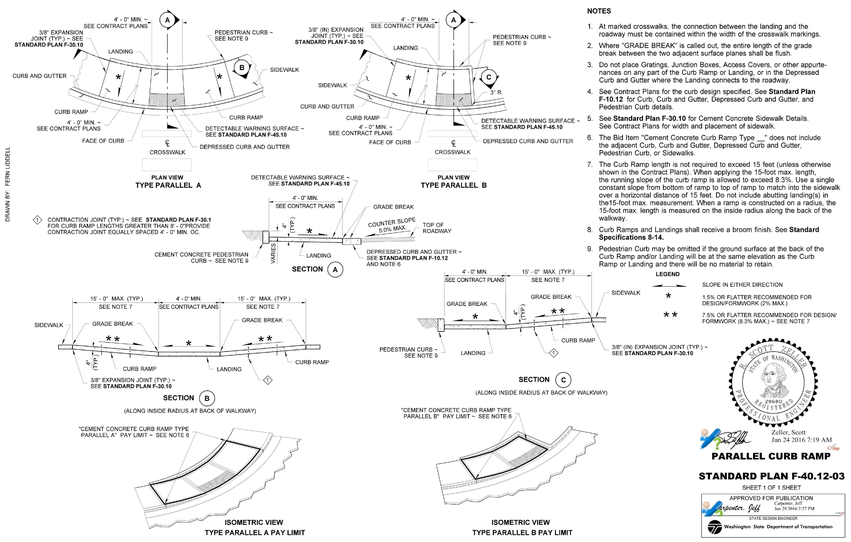
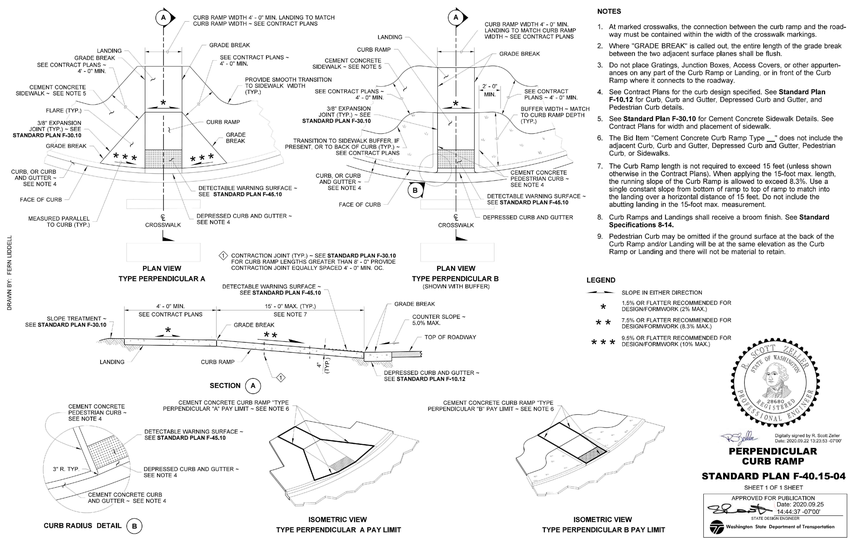


NOTES
1. At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

INSPECTION NOTE

MATERIAL USAGE, SOIL OBSERVATIONS, AND NECESSARY COMPACTION REQUIRED TO MEET CITY STANDARDS AND SPECIFICATIONS WITHIN CITY RIGHT OF WAY MUST BE DONE BY A LICENSED GEOTECHNICAL ENGINEER. VERIFICATION OF SAMPLES AND TESTING WILL BE REQUIRED PRIOR TO FINAL CITY PROJECT ACCEPTANCE.



NOTES
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3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in front of the Curb Ramp where it connects to the roadway.
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8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

A HMA FOR PUBLIC ARTERIALS AND COLLECTOR STREETS
nts

B LOCAL STREET CROSS-SECTION
nts

C THREE-QUARTERS STREET SECTION
nts

D CONCRETE DRIVEWAY ENTRANCE
nts

E PARALLEL CURB RAMP
nts

F PERPENDICULAR CURB RAMP
nts

DRAWN BY: FERN LIDDELL

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
425.259.3161 (T)
1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 t: 360.650.1408
Bellingham, WA 98225 f: 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEATH
STATE OF WASHINGTON
16343
REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER: 2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STREET DETAILS

DRAWING NUMBER:

C6.09

00760.040 07/31/25 RH

ENGINEER'S CERTIFICATION:
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BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING

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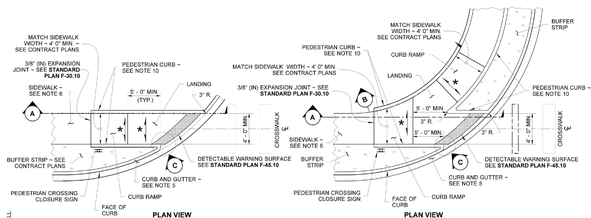
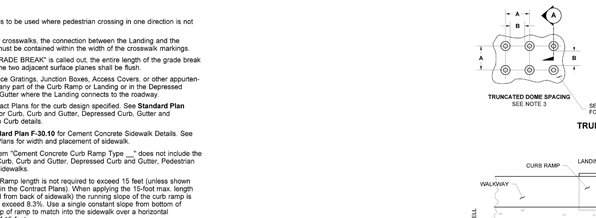


PLAN VIEW
TYPE SINGLE DIRECTION A



PLAN VIEW
TYPE SINGLE DIRECTION B

NOTES

1. This plan is to be used where pedestrian crossing in one direction is not permitted.
2. At marked crosswalks, the connection between the Landing and the roadway must be contained within the width of the crosswalk markings.
3. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
4. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing or in the Depressed Curb and Gutter where the Landing connects to the roadway.
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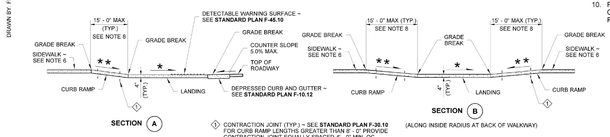


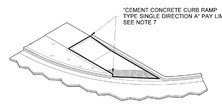
SECTION (A)

1 CONTRACTION JOINT (TYP.) – SEE **STANDARD PLAN F-30.10** FOR CURB RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.

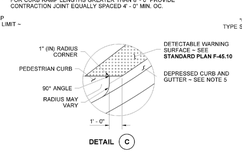
SECTION (B)
(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

LEGEND

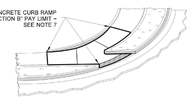
- SLOPE IN EITHER DIRECTION
- ★ 1.5 OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- ★★ 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) SEE NOTE 7



ISOMETRIC VIEW
TYPE SINGLE DIRECTION A
PAY LIMIT



DETAIL (C)



ISOMETRIC VIEW
TYPE SINGLE DIRECTION B
PAY LIMIT

Zeller, Scott
Jun 24 2024 7:21 AM

SINGLE DIRECTION CURB RAMP

STANDARD PLAN F-40.16-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Engineer, Jeff — Chairman, APL — Date 25 2024 2:24 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

(A) SINGLE DIRECTION CURB RAMP
nts

INSPECTION NOTE

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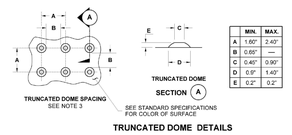
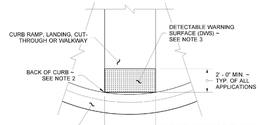


	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	—
C	0.46"	0.90"
D	0.9"	1.40"
E	0.2"	0.2"

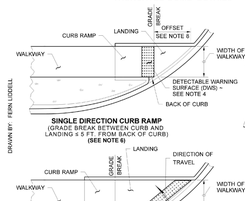
TRUNCATED DOME DETAILS



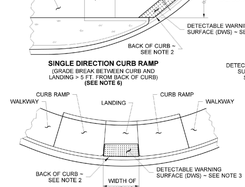
DETECTABLE WARNING SURFACE DETAIL

NOTES

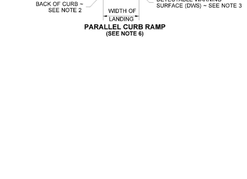
1. The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp, landing, or other roadway entrance as applicable. Exception: If the Manufacturer of the DWS requires a concrete border around the DWS, a variance of up to 2 inches on each side of the DWS is permitted.
2. The Detectable Warning Surface (DWS) shall be placed at the back of curb, with the two leading corners of the DWS panel placed adjacent to the back of the curb, and with no more than a 2 inch gap between the DWS and the back of the curb measured at the center of the DWS panel. Exception: If the Manufacturer of the selected DWS requires a concrete border around the DWS, a variance of up to 2 inches from the back of the curb is permitted (measured at the leading corners of the DWS panel).
3. The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
4. The rows of truncated domes shall be aligned to be parallel to the direction of travel.
5. If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
6. See **Standard Plans** for sidewalk and curb ramp details.
7. If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
8. When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp directly above the grade break.



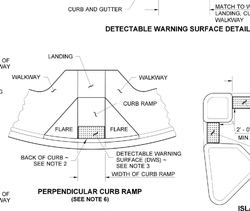
SINGLE DIRECTION CURB RAMP
(GRADE BREAK BETWEEN CURB AND LANDING ≤ 5 FT. FROM BACK OF CURB)
(SEE NOTE 6)



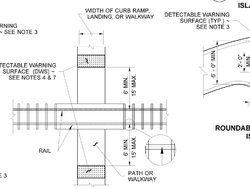
SINGLE DIRECTION CURB RAMP
(GRADE BREAK BETWEEN CURB AND LANDING > 5 FT. FROM BACK OF CURB)
(SEE NOTE 6)



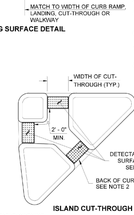
PARALLEL CURB RAMP
(SEE NOTE 6)



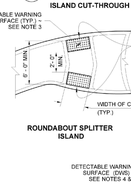
PERPENDICULAR CURB RAMP
(SEE NOTE 6)



PEDESTRIAN RAILROAD CROSSING

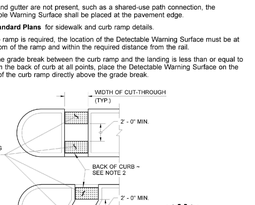


ISLAND CUT-THROUGH



ROUNDABOUT SPLITTER ISLAND

PLACEMENT GUIDELINES



MEDIAN CUT-THROUGH

SHARED-USE PATH CONNECTION

Zeller, Scott
Jul 17 2024 4:25 PM

DETECTABLE WARNING SURFACE

STANDARD PLAN F-45.10-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Engineer, Jeff — Chairman, APL — Date 17 2024 4:26 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

(B) DETECTABLE WARNING SURFACE
nts

DYKEMAN
ARCHITECTURE + DESIGN
www.dykeman.net
425.259.3161 (T)
1716 West Marine View Drive
2nd Floor / Everett, WA 98201

CONSULTANT:

220 West Champion Street, Suite 200 T 360.650.1408
Bellingham, WA 98225 F 360.650.1401
FREELAND & ASSOCIATES

REGISTRATION STAMP:

MICHAEL DIRK HEITZ — STATE OF WASHINGTON — 16343 — REGISTERED PROFESSIONAL ENGINEER
7/30/2025

PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

STREET DETAILS

DRAWING NUMBER:

C6.10

00760.041 07/31/25 RH

ENGINEER'S CERTIFICATION:
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BY: _____ DATE: 10/2/2024

AS-BUILT DRAWING

AS-BUILT NOTE:
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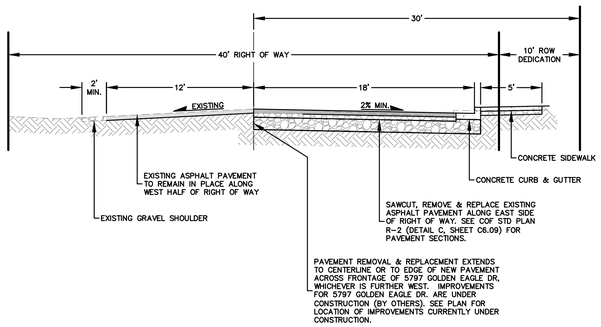
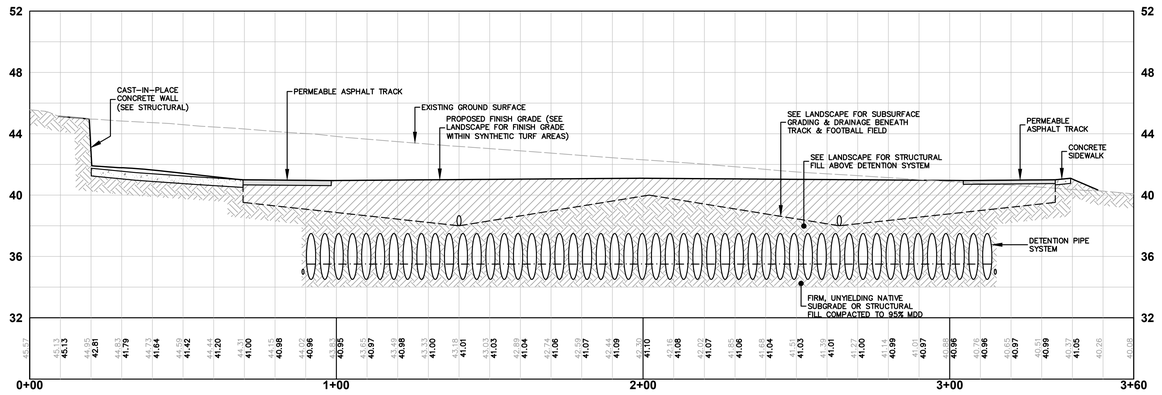
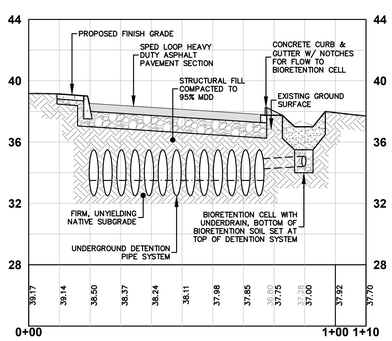


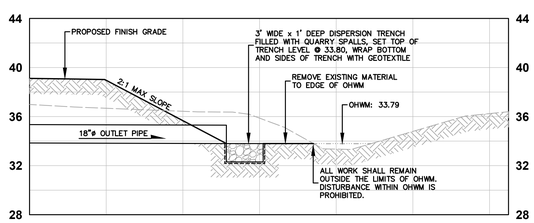
A GOLDEN EAGLE DR FRONTAGE IMPROVEMENTS
nts



B TRACK & FOOTBALL FIELD CROSS-SECTION
nts



C SPED LOOP CROSS-SECTION
nts



D BUS LOOP OUTFALL
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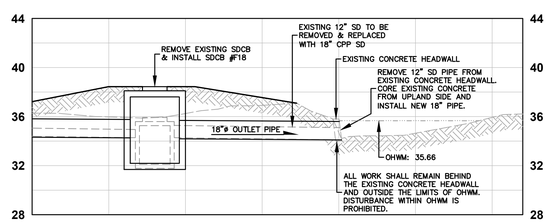

E FOOTBALL OUTFALL
nts

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PROJECT IDENTIFICATION:

FERNDALE HIGH SCHOOL
FOR
FERNDALE SCHOOL DISTRICT
AT
5830 Golden Eagle Dr
Ferndale, WA 98248

RECORD DRAWING
10/2/2024

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PROJECT NUMBER:

2019-016

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT TEAM:

PRINCIPAL IN CHARGE:	TJ
PROJECT MANAGER:	TS
PROJECT ARCHITECT:	CW
JOB CAPTAIN:	TBD

KEYPLAN:

APPROVED
07/31/2025
BY: _____ for kevin renz
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT

DRAWING TITLE:

SITE CROSS-SECTIONS

DRAWING NUMBER:

C6.11

00760.042 07/31/25 RH