FERNDALE TERRACE

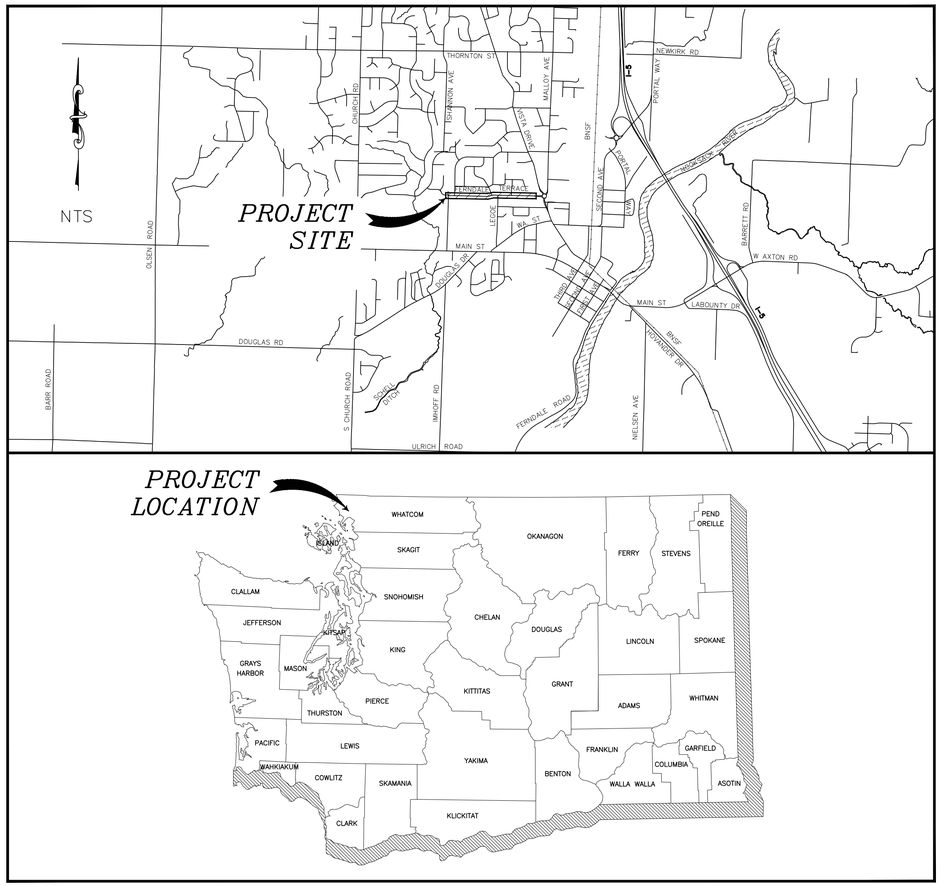
FERNDALE, WA

CITY - PROJECT NO. SW2016-01

FUNDED IN PART BY WASHINGTON STATE DEPARTMENT OF
ECOLOGY AND TRANSPORTATION IMPROVEMENT BOARD

VICINITY MAP

PROJECT LOCATED IN SECTION 19, TOWNSHIP 40N, RANGE 2E, W.M.



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CITY OF FERNDALE WASHINGTON

APPROVED FOR CONSTRUCTION

KEVIN RENZ
PUBLIC WORKS DIRECTOR

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

8/25/26 AS-BUILT

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GS/LMH	GS/LMH	LP

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NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
COVER

DWG 18023 COVER
DATE 8/27/2026
JOB# 18023
SCALE H: N/A V: N/A
SHEET 1 of 85

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LEGEND

LINETYPES

EXISTING

- = EXISTING TOP OF BANK (TB)
- = EXISTING BOTTOM OF BANK (BB)
- = EXISTING DITCH ℄
- = EXISTING GRADE BREAK
- = EXISTING MAJOR CONTOUR (95)
- = EXISTING MINOR CONTOUR (94)
- = EXISTING GUARDRAIL
- = EXISTING FENCE (X)
- = EXISTING HANDRAIL
- = EXISTING GRAVEL
- = EXISTING WALL
- = EXISTING BUILDING
- = EXISTING PROPERTY BOUNDARY
- = EXISTING RIGHT OF WAY
- = EXISTING RIGHT OF WAY ℄
- = EXISTING EASEMENT
- = EXISTING SECTION LINE
- = EXISTING ROAD ℄
- = EXISTING WETLANDS BOUNDARY
- = EXISTING STRIPE
- = EXISTING EDGE OF PAVEMENT
- = EXISTING FLOWLINE
- = EXISTING TOP BACK OF CURB
- = EXISTING SIDEWALK
- = EXISTING BURIED POWER (UGP)
- = EXISTING OVERHEAD POWER (OHP)
- = EXISTING BURIED COMMUNICATIONS (UGC)
- = EXISTING OVERHEAD COMMUNICATIONS (OHC)
- = EXISTING BURIED FIBER OPTICS (FO)
- = EXISTING BURIED TV (TV)
- = EXISTING BURIED TELEPHONE (T)
- = EXISTING CONDUIT (C)
- = EXISTING GAS MAIN (G)
- = EXISTING WATER MAIN (W)
- = EXISTING IRRIGATION LINE (IRR)
- = EXISTING SANITARY SEWER FORCE MAIN (FM)
- = EXISTING SANITARY SEWER (SS)
- = EXISTING STORM DRAIN (SD)
- = EXISTING ORDINARY HIGH WATER (OHW)
- = EXISTING RR TRACKS
- = EXISTING CULVERT
- = EXISTING TREE LINE
- = EXISTING CONCRETE
- = EXISTING WETLAND

PROPOSED

- = PROPOSED TOP OF BANK (TB)
- = PROPOSED BOTTOM OF BANK (BB)
- = PROPOSED DITCH ℄
- = PROPOSED GRADE BREAK
- = PROPOSED MAJOR CONTOUR (95)
- = PROPOSED MINOR CONTOUR (94)
- = PROPOSED FENCE (X)
- = PROPOSED HANDRAIL
- = PROPOSED GRAVEL
- = PROPOSED WALL
- = PROPOSED BUILDING
- = PROPOSED PAVEMENT VALLEY
- = PROPOSED RIGHT OF WAY
- = TEMPORARY CONSTRUCTION EASEMENT (TCE)
- = TEMPORARY CONSTRUCTION PERMIT (TCP)
- = PROPOSED ROAD ℄
- = PROPOSED SAWCUT
- = PROPOSED STRIPE
- = PROPOSED EDGE OF PAVEMENT
- = PROPOSED CURB AND GUTTER
- = PROPOSED PATH
- = PROPOSED SIDEWALK
- = PROPOSED BURIED POWER (UGP)
- = PROPOSED OVERHEAD POWER (OHP)
- = PROPOSED TRAFFIC SIGNAL CONDUCTOR (TS)
- = PROPOSED FIBER OPTICS (FO)
- = PROPOSED BURIED COMMUNICATIONS (UGC)
- = PROPOSED OVERHEAD COMMUNICATIONS (OHC)
- = PROPOSED HIGH VISIBILITY SILT FENCE (HVSF)
- = PROPOSED SILT FENCE (SF)
- = PROPOSED CONDUIT (C)
- = PROPOSED IRRIGATION LINE (IRR)
- = PROPOSED WATER MAIN (W)
- = PROPOSED SANITARY SEWER (SS)
- = PROPOSED STORM DRAIN (SD)
- = PROPOSED CULVERT
- = PROPOSED TREE/SHRUB LINE
- = PROPOSED CONC. SIDEWALK/DRIVEWAY
- = PROPOSED EXPOSED AGGREGATE CONC. DRIVEWAY
- = PROPOSED TEXTURED CONC. PAVEMENT
- = PROPOSED INFILTRATION TRENCH
- = PROPOSED INFILTRATION FILTER MEDIA
- = PROPOSED GRIND
- = PROPOSED DEMOLITION AREA
- = PROPOSED ASPHALT
- = PROPOSED RIGHT OF ACQUISITION

SYMBOLS

EXISTING

- = EXISTING SIGNAL POLE
- = EXISTING SIGNAL POLE W/ LUMINARE
- = EXISTING STREET LIGHT ASSEMBLY
- = EXISTING YARD LIGHT
- = EXISTING GUY WIRE
- = EXISTING TRANSFORMER PAD
- = EXISTING POWER VAULT
- = EXISTING JBOX
- = EXISTING UTILITY POLE
- = EXISTING TRAFFIC SIGNAL VAULT
- = EXISTING GAS METER
- = EXISTING GAS VALVE
- = EXISTING TELEPHONE PEDESTAL
- = EXISTING COMMUNICATIONS VAULT
- = EXISTING WATER SPIGOT
- = EXISTING WATER BLOW OFF
- = EXISTING WATER METER
- = EXISTING WATER VALVE
- = EXISTING FIRE HYDRANT
- = EXISTING RIP RAP OR QUARRY SPALLS
- = EXISTING STORM AREA DRAIN
- = EXISTING STORM DRAIN CATCH BASIN TYPE I/INLET
- = EXISTING STORM DRAIN CATCH BASIN TYPE II
- = EXISTING STORM CLEANOUT
- = EXISTING SEWER CLEANOUT
- = EXISTING SEWER MANHOLE
- = EXISTING SOIL BORING LOCATION
- = EXISTING MONITORING WELL
- = EXISTING STOP BAR OR CROSSWALK
- = EXISTING MAIL BOX (MB)
- = EXISTING SIGN
- = EXISTING BENCH MARK
- = EXISTING NAIL AND SHINER
- = EXISTING IRON PIPE
- = EXISTING MONUMENT (IN CASE)
- = EXISTING MONUMENT (SURFACE)
- = EXISTING ANGLE POINT
- = EXISTING ROCK WALL
- = EXISTING TREE STUMP
- = EXISTING SHRUB
- = EXISTING TREE

PROPOSED

- = PROPOSED HYDRANT
- = PROPOSED COUPLER
- = PROPOSED WATER METER
- = PROPOSED WATER VALVE
- = PROPOSED RIP RAP OR QUARRY SPALLS
- = PROPOSED STORM AREA DRAIN
- = PROPOSED STORM DRAIN CATCH BASIN TYPE I/INLET
- = PROPOSED STORM DRAIN CATCH BASIN TYPE II (OR)
- = PROPOSED STORM CLEANOUT
- = PROPOSED SANITARY SEWER CLEAN OUT
- = PROPOSED SANITARY SEWER MANHOLE
- = PROPOSED UTILITY POLE
- = PROPOSED JBOX (TYPE I, II, III)
- = PROPOSED MONITORING WELL
- = PROPOSED STOP BAR OR CROSSWALK
- = PROPOSED SIGN
- = PROPOSED RRFB ASSEMBLY
- = FLOW ARROW
- = PROPOSED ROCK WALL
- = PROPOSED TREE
- = SECTION MARK (DETAIL NUMBER / DET SHT / SHEET NUMBER)

DEMOLITION LEGEND

- = PROPOSED SAWCUT
- = PROPOSED GRIND
- = PROPOSED DEMOLITION AREA
- = PROPOSED GRAVEL DEMOLITION AREA
- = PROPOSED CLEARING AND GRUBBING LIMITS

LANDSCAPING LEGEND

- = PROPOSED RESTORATION
- = PROPOSED BARK OR WOOD CHIP MULCH RESTORATION

ABBREVIATIONS

Δ	= DELTA	EVCS	= END VERTICAL CURVE STATION	MOD	= MODIFIED	SCH	= SCHEDULE
∠	= ANGLE	EX, EXIST	= EXISTING	MON	= MONUMENT	SD	= STORM DRAIN
ø	= DIAMETER	IR	= EXISTING IRRIGATION	MPOC	= MID-POINT ON CURVE	SDCO	= STORM DRAIN CLEAN OUT
AC	= ASBESTOS CEMENT	F&C	= FRAME & COVER	MTR	= METER	SDCB	= STORM DRAIN CATCH BASIN
AD	= ALGEBRAIC DIFFERENCE	F&G	= FRAME & GRATE	MW	= MONITORING WELL	SDMH	= STORM DRAIN MANHOLE
ASPH	= ASPHALT	FDC	= FIRE DEPARTMENT CONNECTION	N	= NORTH	SE	= SOUTHEAST
BLDG	= BUILDING	FF	= FINISHED FLOOR	N/A	= NOT APPLICABLE	SN	= EXISTING SIGN
BVCE	= BEGIN VERTICAL CURVE ELEVATION	FG	= FINISHED GRADE	NE	= NORTHEAST	SP	= STANDARD PLAN
BVCS	= BEGIN VERTICAL CURVE STATION	℄	= FLOWLINE	NW	= NORTHWEST	SSCO	= SANITARY SEWER CLEAN OUT
C&G	= CURB & GUTTER	FL	= FLANGE	NTS	= NOT TO SCALE	SSMH	= SANITARY SEWER MANHOLE
CATV	= CABLE TELEVISION	FND	= FOUND	OC	= ON CENTER	STA	= STATION
CDF	= CONTROLLED DENSITY FILL	FT	= FEET	PVMNT	= PAVEMENT	STD	= STANDARD
℄	= CENTERLINE	FT/FT	= FEET PER FOOT	PC	= POINT OF CURVATURE	SW	= SOUTHWEST
CL	= CLASS	GALV	= GALVANIZED	PCC	= POINT OF COMPOUND CURVATURE, PORTLAND CEMENT CONCRETE	TBC	= TOP BACK OF CONCRETE
CMP	= CORRUGATED METAL PIPE	GRVL	= GRAVEL			TEL	= TELEPHONE
CMU	= CONCRETE MASONRY UNIT	GV	= GATE VALVE	PED	= PEDESTAL	TL	= TRAFFIC LOOP
COMP	= COMPACTED	HDPE	= HIGH DENSITY POLYETHYLENE	PIV	= POST INDICATOR VALVE	TYP	= TYPICAL
CON	= CONIFER	HMA	= HOT MIX ASPHALT	POC	= POINT ON CURVE	UP	= UTILITY POLE
CONC	= CONCRETE	HP	= HIGH POINT	POSS	= POSSIBLE	UTIL	= UTILITY
CONT	= CONTOUR	HYD	= HYDRANT	PRC	= POINT OF REVERSE CURVE	VC	= VERTICAL CURVE
CPSSP	= CORRUGATED POLYETHYLENE STORM SEWER PIPE	IE, INV	= INVERT ELEVATION	PROP	= PROPOSED	VLT	= VAULT
		IW	= INJECTION WELL	PT	= POINT OF TANGENCY	VPC	= VERTICAL POINT OF CURVATURE
CULV	= CULVERT	L	= LENGTH	PVC	= POLYVINYL CHLORIDE	VPI	= VERTICAL POINT OF INTERSECTION
D/W	= DRIVEWAY	LDSC	= LANDSCAPING	PVI	= POINT OF VERTICAL INTERSECTION	VPT	= VERTICAL POINT OF TANGENCY
DEC	= DECIDUOUS	LF	= LINEAR FEET	PWR	= POWER	W	= WEST
DI	= DUCTILE IRON	LOC	= LOCATION	R	= RADIUS	WM	= WATER METER / WATER MAIN
E	= EAST	LP	= LOW POINT	R&C	= RING & COVER	WSEL	= WATER SURFACE ELEVATION
EL	= ELEVATION	LT	= LEFT	RET	= RETAINING	WSDOT	= WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
EOP, EP	= EDGE OF PAVEMENT	MAX	= MAXIMUM	ROW	= RIGHT OF WAY		
EQUIV	= EQUIVALENT	MIN	= MINIMUM	RT	= RIGHT		
EVCE	= END VERTICAL CURVE ELEVATION	MJ	= MECHANICAL JOINT	S	= SOUTH		

GENERAL NOTES

PROTECTION OF THE ENVIRONMENT:

NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
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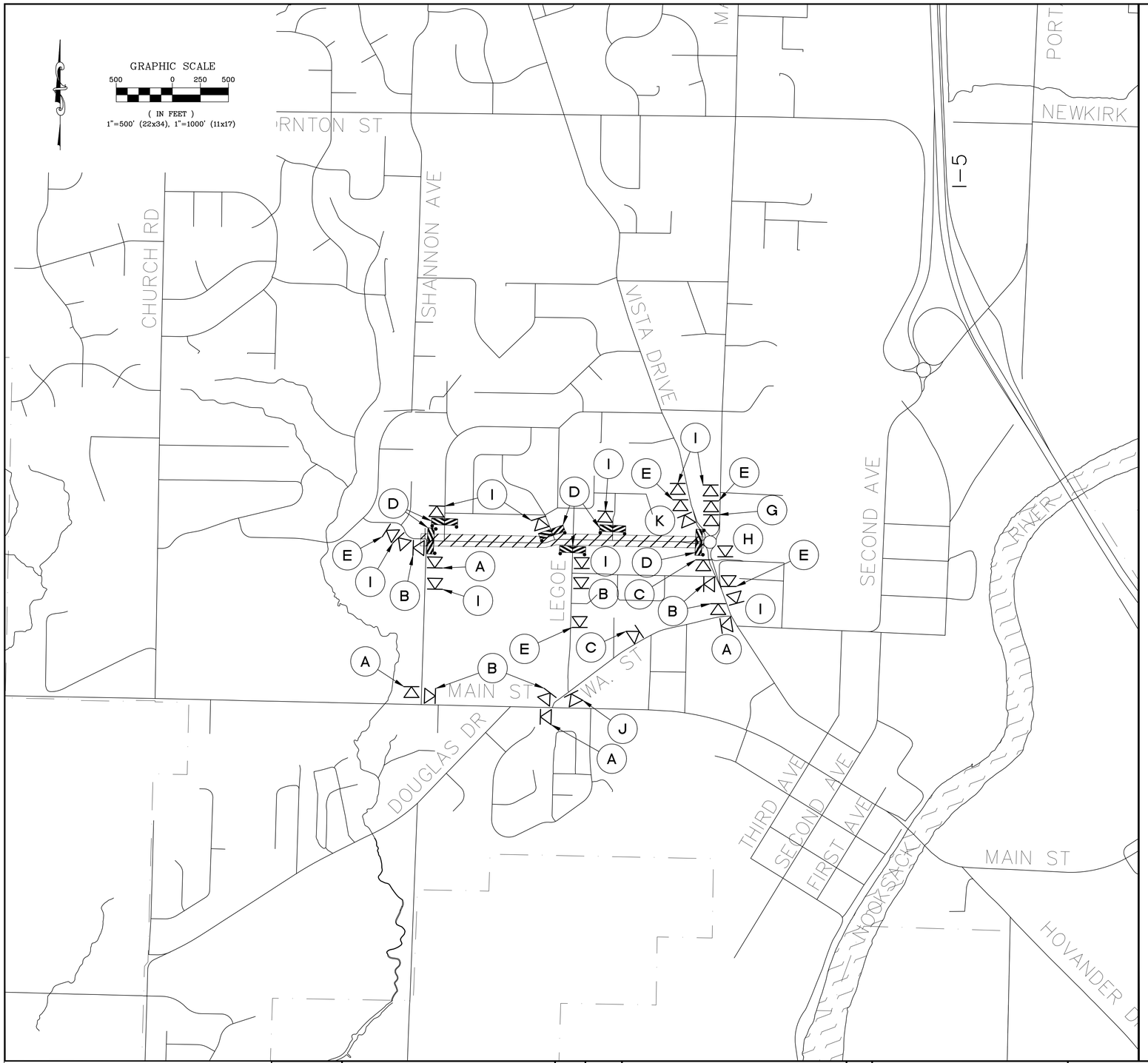
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
LEGEND AND ABBREVIATIONS

DWG 18023 COVER			DATE 8/27/2026
JOB# 18023	SCALE H: N/A	V: N/A	SHEET 2 of 85

P:\Projects\18023\Cnd 3D 2019\18023 COVER.dwg, 2 LEGEND & ABBREVIATIONS, 8/26/2026 12:18:11 PM, , AutoCAD PDF (General Documentation).pc3



LEGEND

= SIGN (SHOWN FACING LEFT)

= PROPOSED WORK AREA

A — 48" DETOUR 18" — M4-10L B/O

B — 48" DETOUR 18" — M4-10R B/O

C — 30" DETOUR 24" — M4-9C

D — TWO TYPE III R AND TYPE III L. BARRICADE WITH 2 TYPE A FLASHING WARNING LIGHTS

E — 36" DETOUR AHEAD 36" — W20-2 B/O

F — 36" 36" — SPECIAL CONSTRUCTION SIGN B/O

G — 36" 36" — SPECIAL CONSTRUCTION SIGN B/O

H — 36" 36" — SPECIAL CONSTRUCTION SIGN B/O

I — 60" 30" ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY — R11-3A B/W

J — 45" DETOUR 24" — SPECIAL CONSTRUCTION SIGN B/O

SIGN SPACING = X (1)		
RURAL ROADS	45/55 MPH	500'±
URBAN ARTERIALS & RURAL ROADS	35/40 MPH	350'±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)
ALL SIGNS ARE BLACK ON ORANGE UNLESS DESIGNATED OTHERWISE		

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY
DRAWN BY
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NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DETOUR PLAN

DWG 18023 DETOUR | DATE 8/27/2026
JOB# 18023 | SCALE H: 1"=500' V: N/A | SHEET 3 of 85

P:\Projects\18023\Civil 3D 2015\18023 DETOUR.dwg, 3 DETOUR PLAN, 8/28/2026 12:18:19 PM, , AutoCAD PDF (General Documentation).pc3

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.				HOST VEHICLE WEIGHT > 22,000 lbs.						
< 45 MPH	45–55 MPH	> 55 MPH		< 45 MPH	45–55 MPH	> 55 MPH				
100'	123'	172'		74'	100'	150'				
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

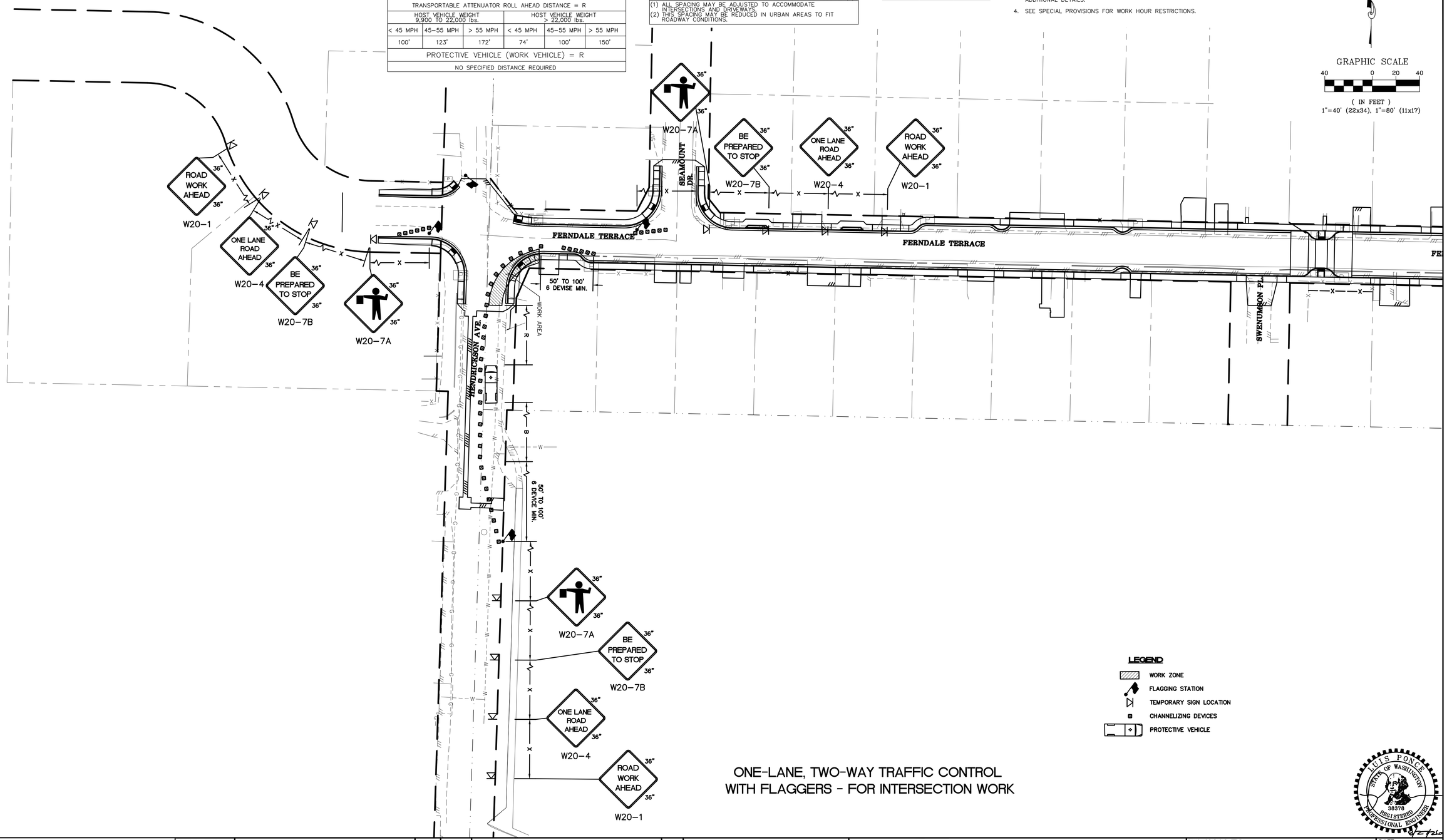
SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

NOTES:
1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1"=40' (22x34), 1"=80' (11x17)



LEGEND
- WORK ZONE
- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS - FOR INTERSECTION WORK

LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER 8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY CSM
DRAWN BY CSM
CHECKED BY

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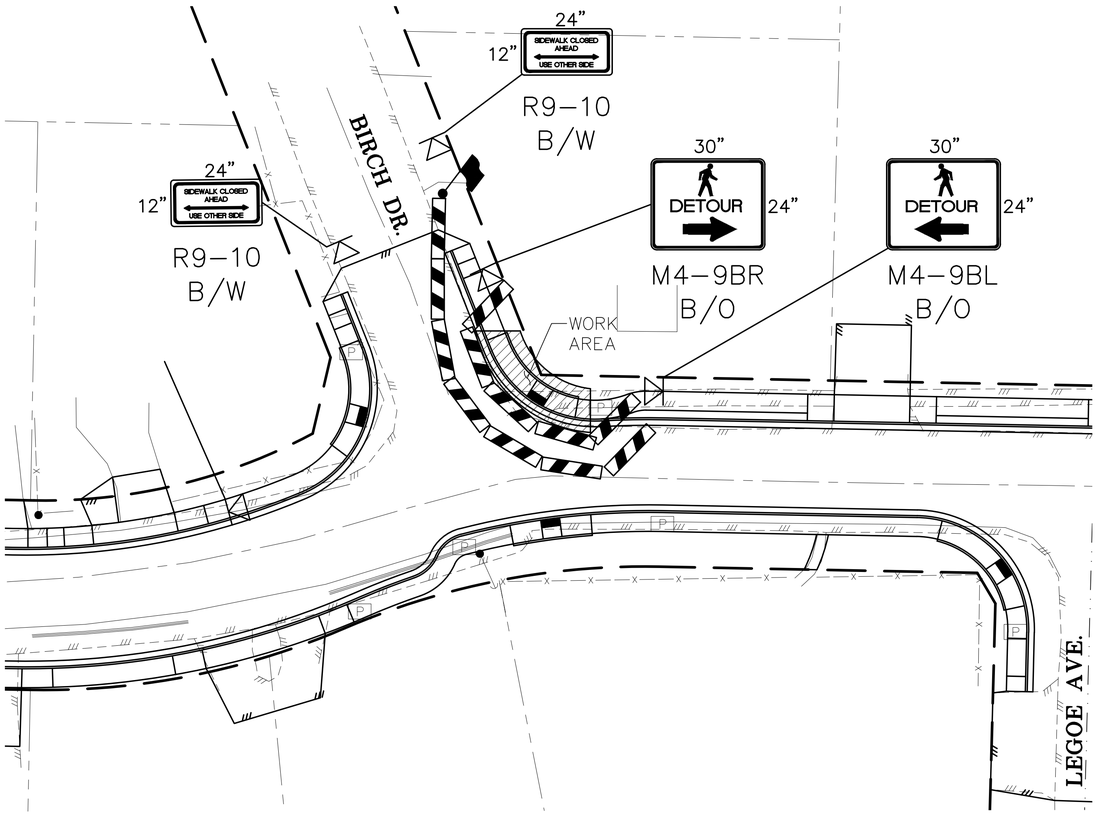
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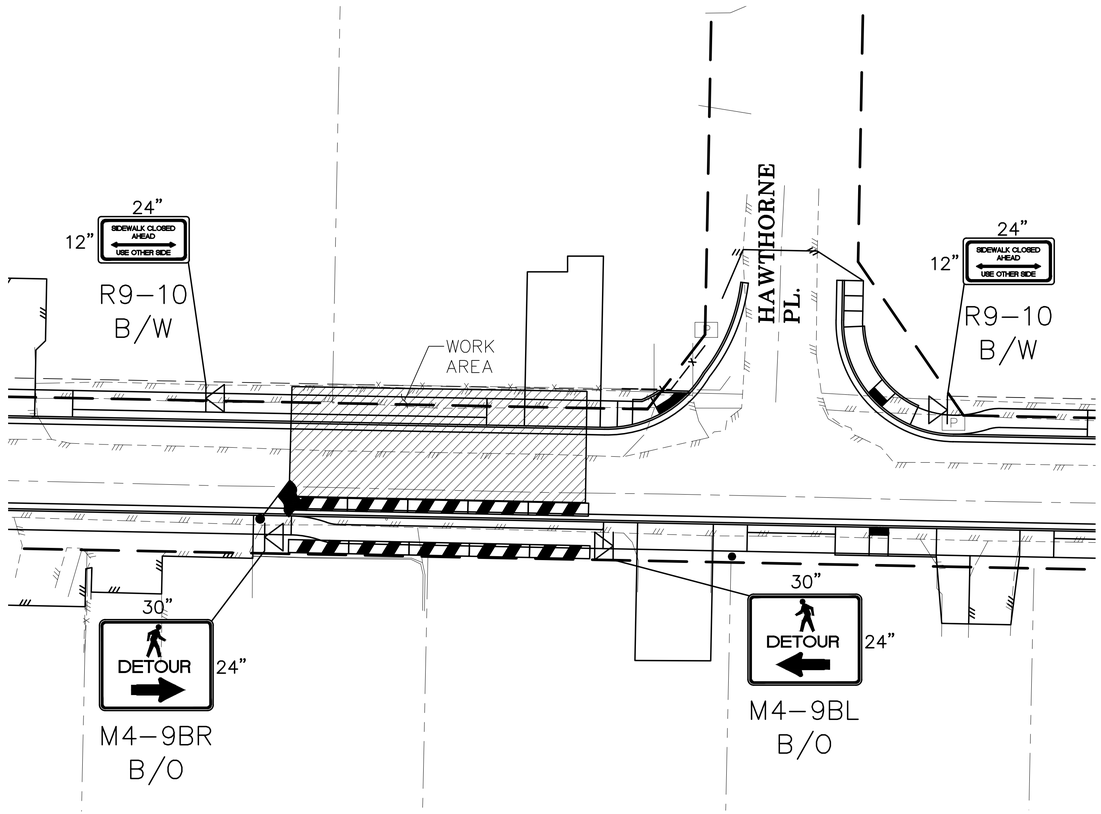
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TRAFFIC CONTROL - FOUR WAY INTERSECTION WITH FLAGGERS

DWG 18023 TC
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 30' V: N/A
SHEET 4 of 85

P:\Projects\18023\Civil 3D 2015\18023 TC-fwy_4 TRAFFIC CONTROL - FOUR WAY INTERSECTION WITH FLAGGERS, 8/26/2026 12:19:44 PM, _AutoCAD PDF (General Documentation).pc3



INTERSECTION PEDESTRIAN TRAFFIC CONTROL



PEDESTRIAN TRAFFIC CONTROL

NOTES:
1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.2(1)B.
5. CONTRACTOR TO PROVIDE PEDESTRIAN ACCESS THROUGHOUT THE ENTIRE PROJECT.
6. CONTRACTOR SHALL PROVIDE FLAGGERS THROUGHOUT THE PROJECT DURATION TO ESCORT PEDESTRIANS AND/OR BICYCLISTS THROUGH THE PROJECT LIMITS.

LEGEND

- WORK ZONE
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS
- FLAGGING STATION

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' (22x34), 1"=40' (11x17)

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REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	CSM
DRAWN BY	CSM
CHECKED BY	

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

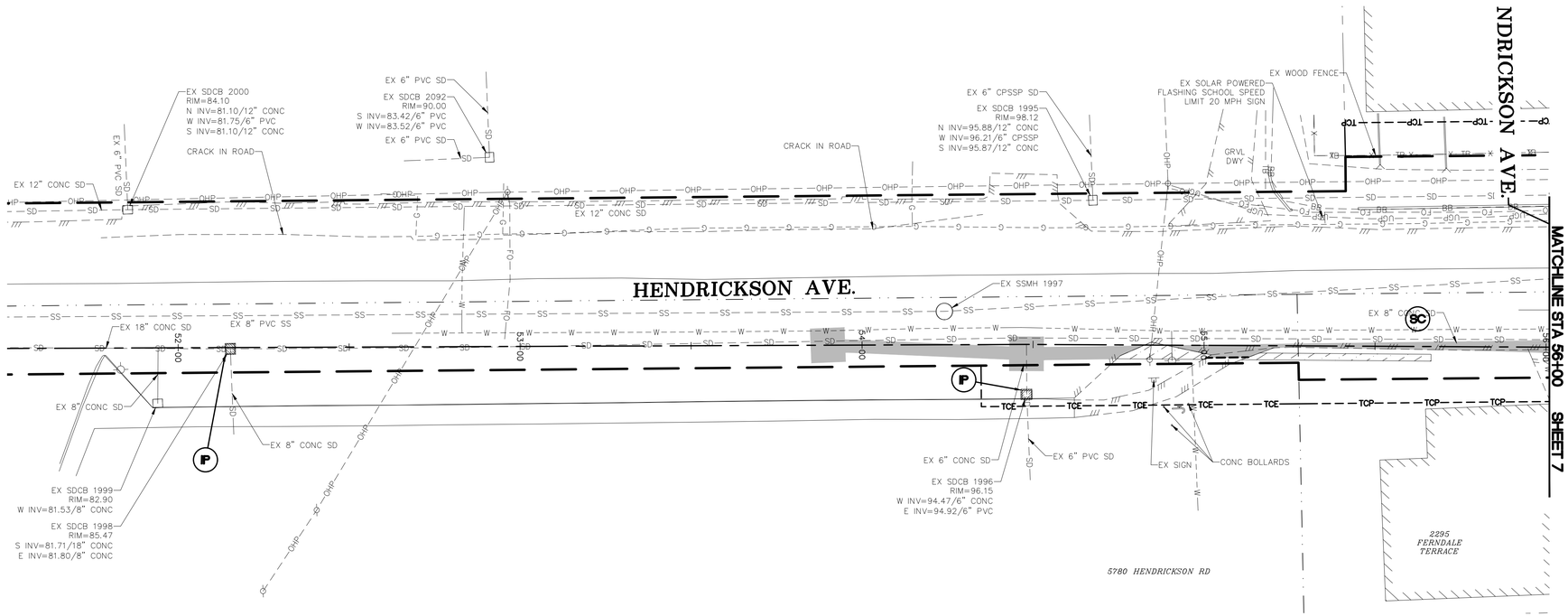
FERNDALE TERRACE PROJECT

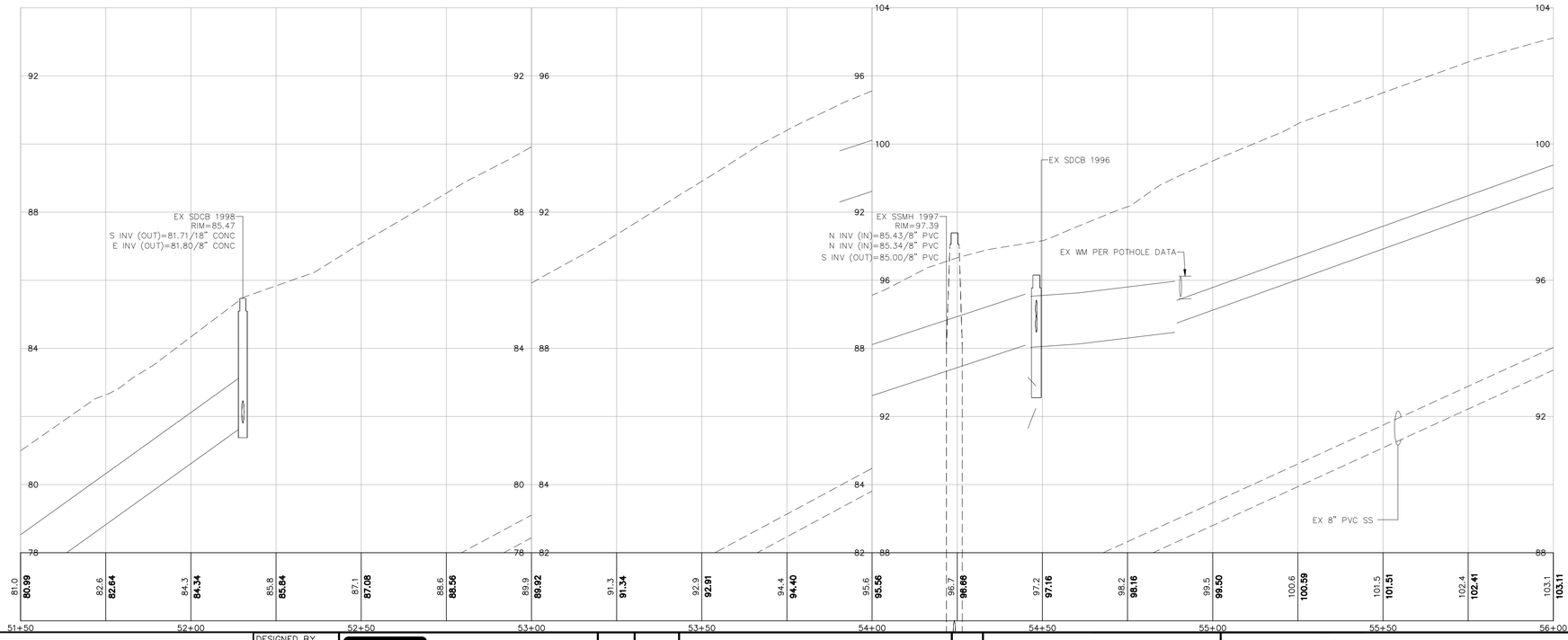
HENDRICKSON AVENUE TO VISTA DRIVE

TRAFFIC CONTROL - BIRCH DR + LEGOE AVE SIGNAGE

DWG 18023 TC			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 30' V: N/A		SHEET 5 of 85

P:\Projects\18023\Cnst 30 2015\18023 TC.dwg, 5 TRAFFIC CONTROL - BIRCH DR & LEGOE AVE SIGNAGE, 8/28/2026 12:20:34 PM, _AutoCAD PDF (General Documentation).pc3





GRAPHIC SCALE

20 0 10 20

(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)

EROSION CONTROL LEGEND

WASHINGTON STATE DEPT. OF ECOLOGY BEST MANAGEMENT PRACTICES (BMP)
REF.: STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, 2019

NOTES:
1. BMP C120 (PERMANENT SEEDING) AND BMP C130 (SURFACE ROUGHENING) SHOWN IN LANDSCAPING AND PLANTING PLAN.
2. SEE TESC DETAILS AND TESC GENERAL NOTES, SHEETS 12 AND 13
3. ALL STUMPS SHALL BE GROUND OUT TO 6 INCHES BELOW GRADE

SF = BMP C103 AND C233: CLEARING LIMITS AND SILT FENCE – SEE DETAIL SHEET 13

IP = BMP C220: INLET PROTECTION – CB INSERT – SEE DETAIL SHEET 13

SC = BMP C105 AND C140: STREET CLEANING

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
DRAWN BY GS/LMH
CHECKED BY LP

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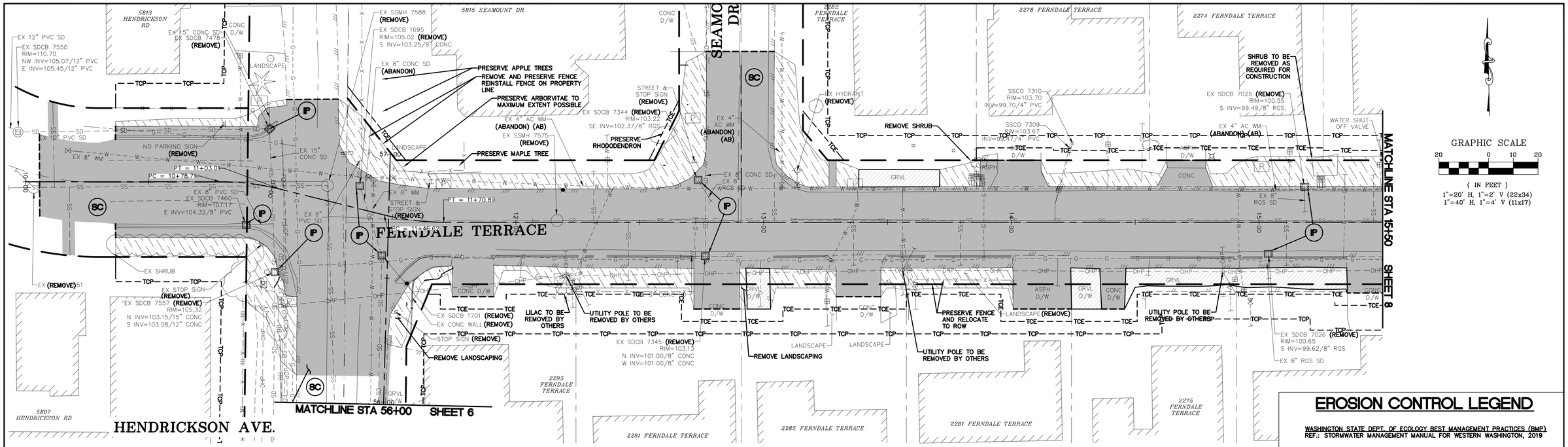
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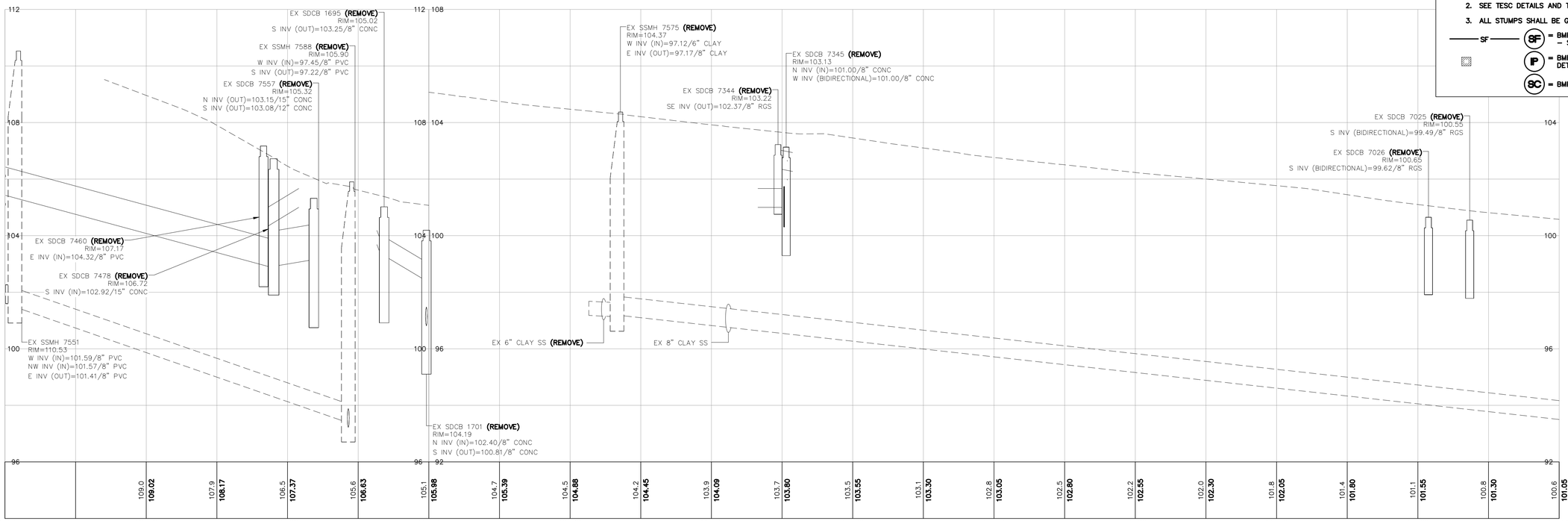
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
EX COND, DEMO AND TESC - HENDRICKSON

DWG 18023 EX COND
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1"=2'
SHEET 6 of 85

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STATE OF WASHINGTON LUIS PONCE 38378 REGISTERED PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

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GS/LMH	GS/LMH	LP

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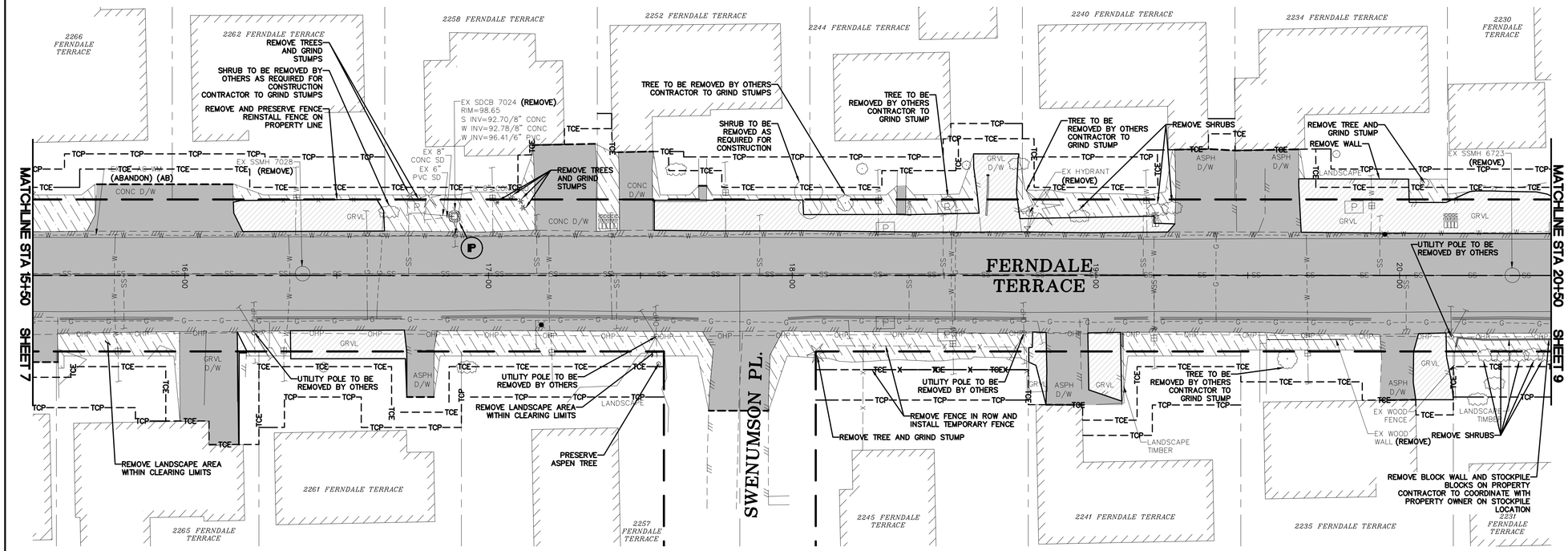
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CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
EX COND, DEMO AND TESC - STA 10+00 TO 15+50

DWG 18023 EX COND
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1"=2'
SHEET 7 of 85

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EROSION CONTROL LEGEND

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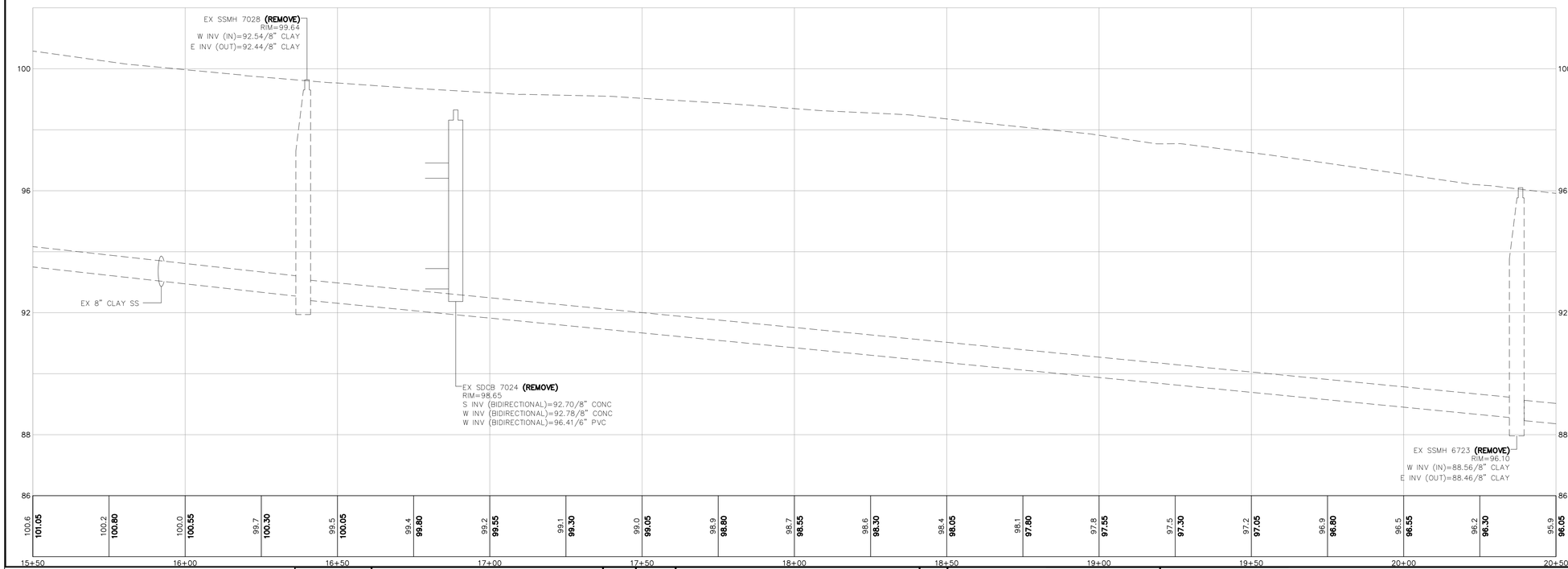
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(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)



SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
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NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
EX COND, DEMO AND TESC - STA 15+50 TO 20+50

DWG 18023 EX COND
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1"=5'
SHEET 8 of 85

LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER 8/27/26

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EROSION CONTROL LEGEND

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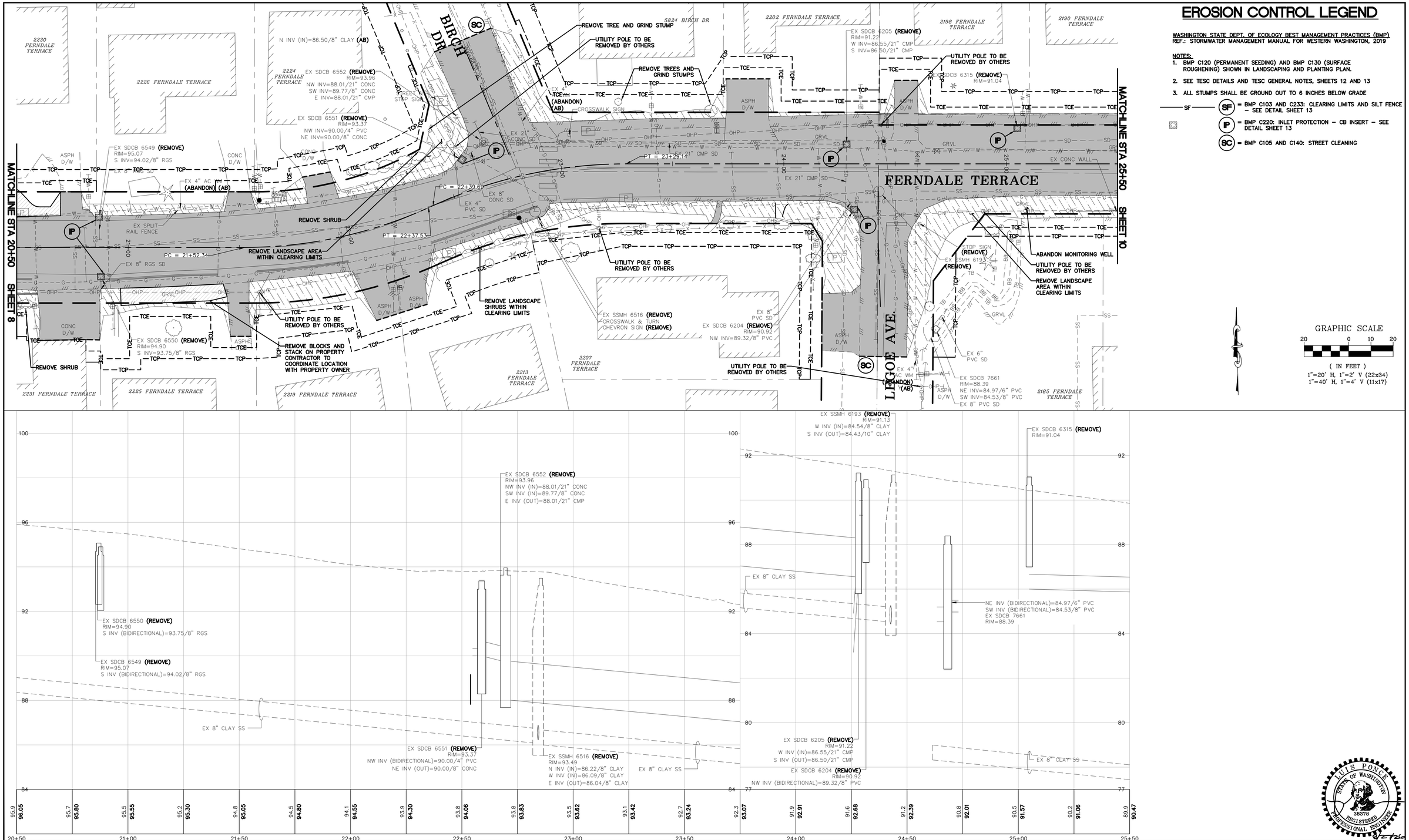
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(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)



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DESIGNED BY GS/LMH
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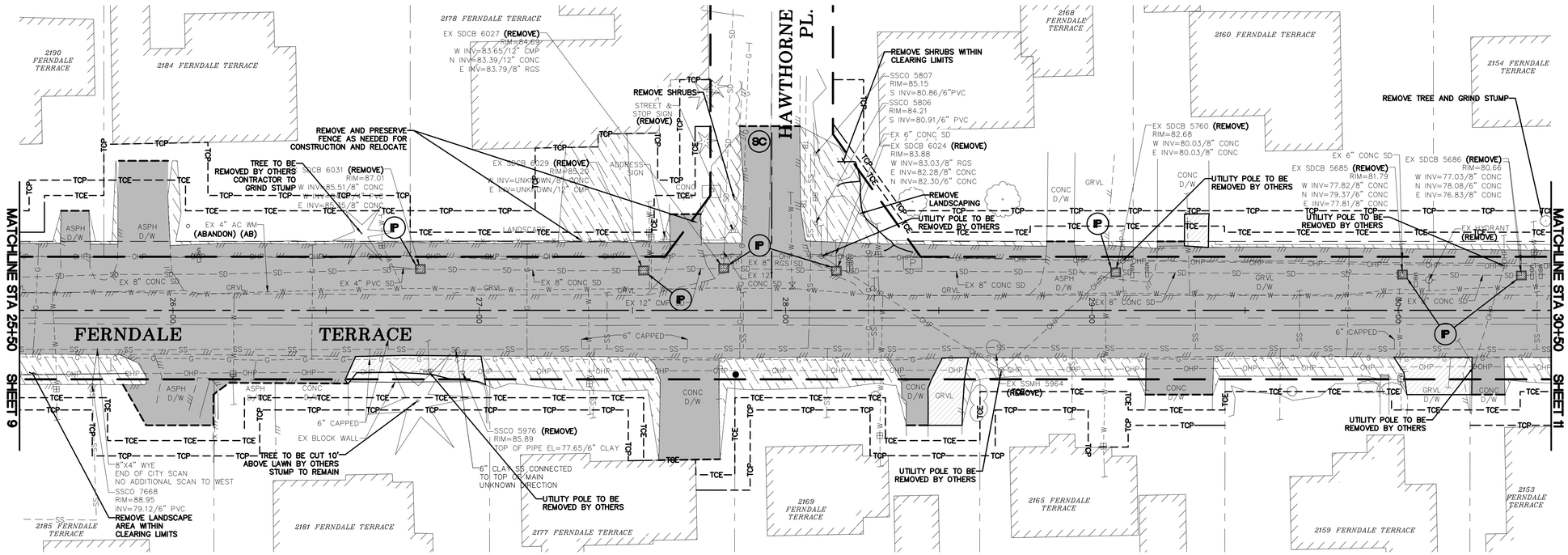
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
EX COND, DEMO AND TESC - STA 20+50 TO 25+50

DWG 18023 EX COND
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1"=5'
SHEET 9 of 85

LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER

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EROSION CONTROL LEGEND

WASHINGTON STATE DEPT. OF ECOLOGY BEST MANAGEMENT PRACTICES (BMP)
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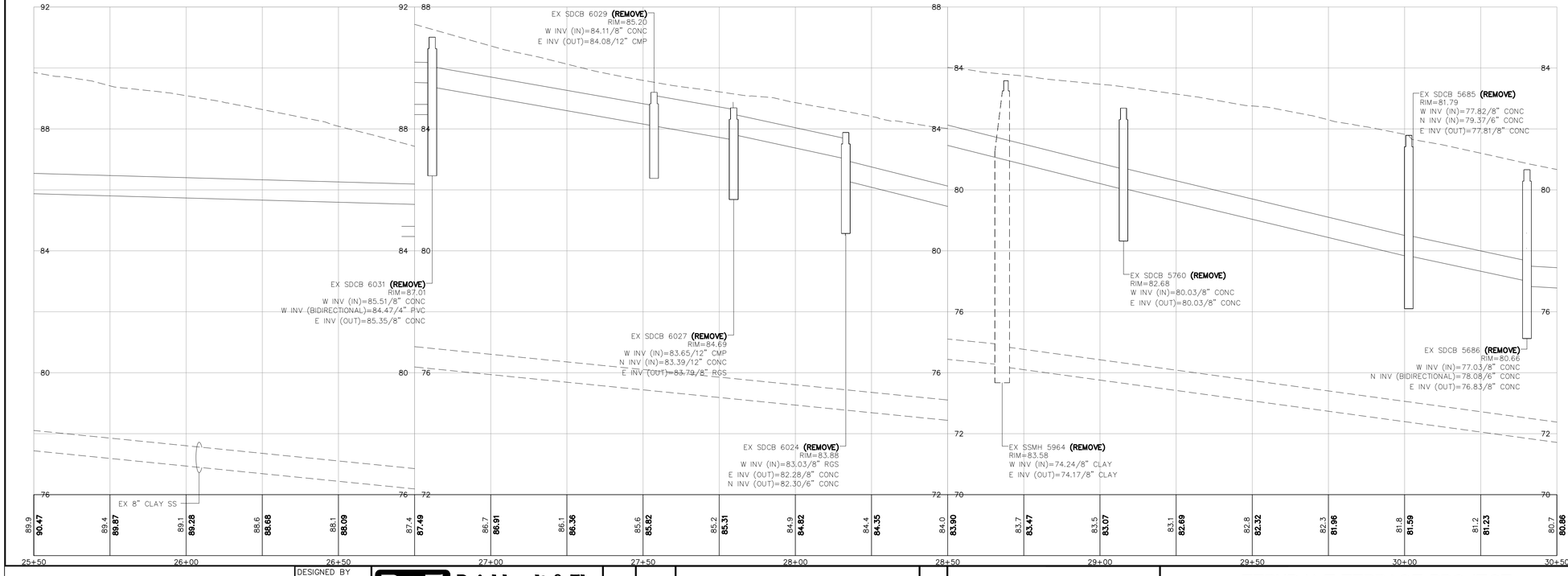
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(IN FEET)
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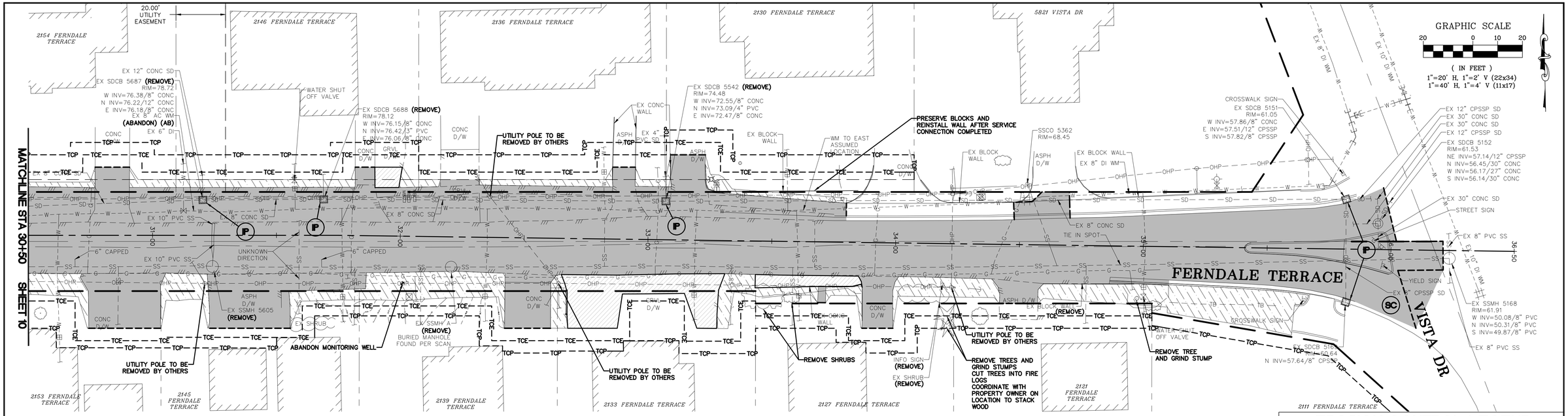
FERNDALE TERRACE PROJECT

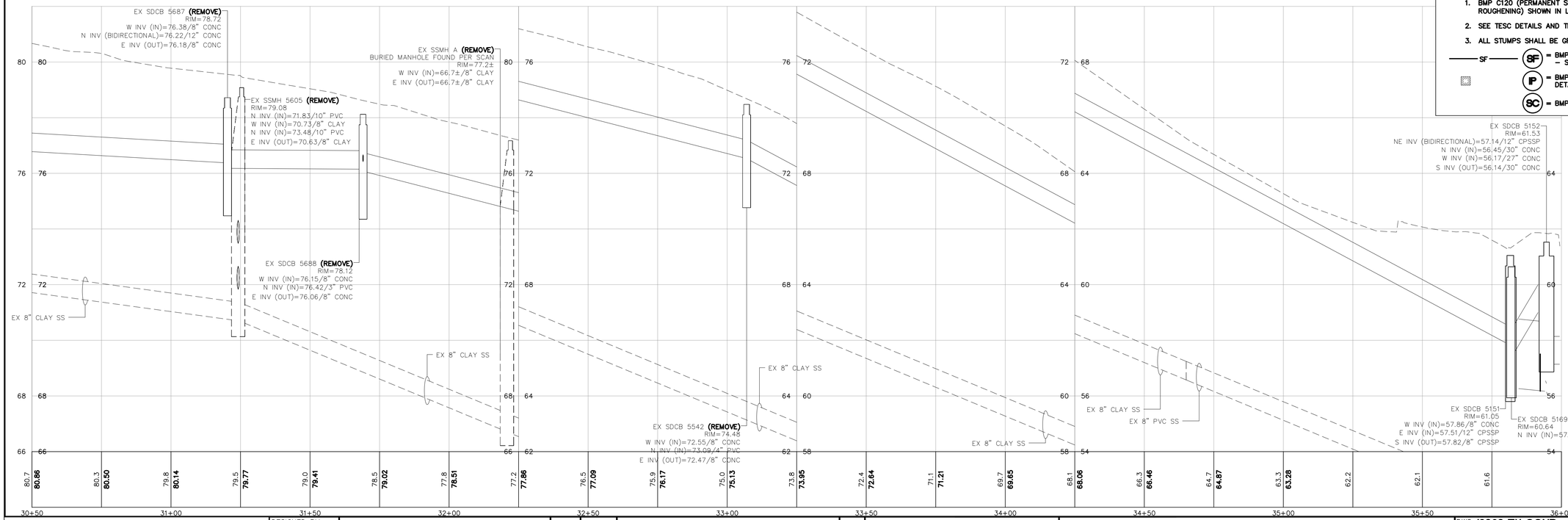
HENDRICKSON AVENUE TO VISTA DRIVE

EX COND, DEMO AND TESC - STA 25+50 TO 30+50

DWG 18023 EX COND
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1"=2'
SHEET 10 of 85

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EROSION CONTROL LEGEND

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FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
EX COND, DEMO AND TESC - STA 30+50 TO 36+50

DWG 18023 EX COND
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1"=2'
SHEET 11 of 85

LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER
8/27/26

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CONSTRUCTION SWPPP ELEMENTS

THIS PLAN PROVIDES THE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL ADAPT THE PLAN IN ORDER TO PREVENT SEDIMENT LADEN STORM WATER FROM LEAVING THE SITE. THE CONTRACTOR'S CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) SHALL UTILIZE THE WASHINGTON STATE DEPARTMENT OF ECOLOGY 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (SWMMWW) FOR SELECTING, INSTALLING AND MAINTAINING THE CORRECT BMP'S BASED OF METHOD OF CONSTRUCTION UTILIZED BY THE CONTRACTOR. ALL ITEM'S SHALL BE OVERSEEN BY A CSECL AND BE SUBJECT TO INSPECTION BY THE ENGINEER AND/OR THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.

ELEMENT 1: PRESERVE VEGETATION/MARK CLEARING LIMITS

- BEFORE BEGINNING LAND DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, CLEARLY MARK ALL CLEARING LIMITS, SENSITIVE AREAS AND THEIR BUFFERS, AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA.
- RETAIN THE DUFF LAYER, NATIVE TOP SOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICABLE.

BMP C101: PRESERVING NATURAL VEGETATION
BMP C102: BUFFER ZONES
BMP C103/C233: HIGH VISIBILITY SILT FENCE

ELEMENT 2: ESTABLISH CONSTRUCTION ACCESS

- LIMIT CONSTRUCTION VEHICLE ACCESS AND EXIT TO ONE ROUTE, IF POSSIBLE.
- STABILIZE ACCESS POINTS WITH A PAD OF QUARRY SPALLS, CRUSHED ROCK, OR OTHER EQUIVALENT BMPS, TO MINIMIZE TRACKING OF SEDIMENT ONTO PUBLIC ROADS.
- LOCATE WHEEL WASH OR TIRE BATHS ON SITE, IF THE STABILIZED CONSTRUCTION ENTRANCE IS NOT EFFECTIVE IN PREVENTING TRACKING SEDIMENT ONTO ROADS.
- IF SEDIMENT IS TRACKED OFF SITE, CLEAN THE AFFECTED ROADWAY(S) THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY AS NECESSARY (FOR EXAMPLE, DURING WET WEATHER). REMOVE SEDIMENT FROM ROADS BY SHOVELING, SWEEPING, OR PICK UP AND TRANSPORTING THE SEDIMENT TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONDUCT STREET WASHING ONLY AFTER SEDIMENT IS REMOVED IN ACCORDANCE WITH THE ABOVE BULLET.
- CONTROL STREET WASH WASTEWATER BY PUMPING BACK ON SITE, OR OTHERWISE PREVENT IT FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.

BMP C105: STABILIZED CONSTRUCTION ACCESS
BMP C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION

ELEMENT 3: CONTROL FLOW RATES

- PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM OF DEVELOPMENT SITES FROM EROSION AND THE ASSOCIATED DISCHARGE OF TURBID WATERS DUE TO INCREASES IN THE VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE.
- WHERE NECESSARY TO COMPLY WITH THE BULLET ABOVE, CONSTRUCT STORMWATER INFILTRATION OR DETENTION BMPS AS ONE OF THE FIRST STEPS IN GRADING. ASSURE THAT DETENTION BMPS FUNCTION PROPERLY BEFORE CONSTRUCTING SITE IMPROVEMENTS (E.G. IMPERVIOUS SURFACES).
- IF PERMANENT INFILTRATION BMPS ARE USED FOR TEMPORARY FLOW CONTROL DURING CONSTRUCTION, PROTECT THESE BMPS FROM SILTATION DURING THE CONSTRUCTION PHASE.

BMP C208: TRIANGULAR SILT DIKE (GEOTEXTILE-ENCASED CHECK DAM)

ELEMENT 4: INSTALL SEDIMENT CONTROLS

- DESIGN, INSTALL, AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS.
- CONSTRUCT SEDIMENT CONTROL BMPS (SEDIMENT PONDS, TRAPS, FILTERS, ETC.) AS ONE OF THE FIRST STEPS IN GRADING. THESE BMPS MUST BE FUNCTIONAL BEFORE OTHER LAND DISTURBING ACTIVITIES TAKE PLACE.
- MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS MUST ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY AND DURATION OF PRECIPITATION, THE NATURE OF RESULTING STORMWATER RUNOFF, AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.
- DIRECT STORMWATER RUNOFF FROM DISTURBED AREAS THROUGH BMP C241: SEDIMENT POND (TEMPORARY) OR OTHER APPROPRIATE SEDIMENT REMOVAL BMP, BEFORE THE RUNOFF LEAVES A CONSTRUCTION SITE OR BEFORE DISCHARGE TO AN INFILTRATION FACILITY. RUNOFF FROM FULLY STABILIZED AREAS MAY BE DISCHARGED WITHOUT A SEDIMENT REMOVAL BMP, BUT MUST CONTROL FLOW RATES PER ELEMENT 3: CONTROL FLOW RATES.
- LOCATE BMPS INTENDED TO TRAP SEDIMENT ON SITE IN A MANNER TO AVOID INTERFERENCE WITH THE MOVEMENT OF JUVENILE SALMONIDS ATTEMPTING TO ENTER OFF-CHANNEL AREAS OR DRAINAGES.
- WHERE FEASIBLE, DESIGN OUTLET STRUCTURES THAT WITHDRAW IMPOUNDED STORMWATER FROM THE SURFACE TO AVOID DISCHARGING SEDIMENT THAT IS STILL SUSPENDED LOWER IN THE WATER COLUMN.

BMP C208: TRIANGULAR SILT DIKE (GEOTEXTILE-ENCASED CHECK DAM)
BMP C233: SILT FENCE

ELEMENT 5: STABILIZE SOILS

- STABILIZE EXPOSED AND UNWORKED SOILS BY APPLICATION OF EFFECTIVE BMPS THAT PREVENT EROSION. APPLICABLE BMPS INCLUDE, BUT ARE NOT LIMITED TO: TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, EROSION CONTROL FABRICS AND MATTING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, AND DUST CONTROL.
- CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION.
- CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAM BANK EROSION.
- SOILS MUST NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN THE TIME PERIODS SET FORTH BELOW TO PREVENT EROSION:
  - DURING THE DRY SEASON (MAY 1 – SEPTEMBER 30): 7 DAYS
  - DURING THE WET SEASON (OCTOBER 1 – APRIL 30): 2 DAYS
- STABILIZE SOILS AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST.
- STABILIZE SOIL STOCKPILES FROM EROSION, PROTECT WITH SEDIMENT TRAPPING MEASURES, AND WHERE POSSIBLE, LOCATE AWAY FROM STORM DRAIN INLETS, WATERWAYS AND DRAINAGE CHANNELS.
- MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY.
- MINIMIZE THE DISTURBANCE OF STEEP SLOPES.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

BMP C120: TEMPORARY AND PERMANENT SEEDING
BMP C123: PLASTIC COVERING (AS NEEDED)
BMP C130: SURFACE ROUGHENING
BMP C140: DUST CONTROL

ELEMENT 6: PROTECT SLOPES

- DESIGN AND CONSTRUCT CUT-AND-FILL SLOPES IN A MANNER TO MINIMIZE EROSION. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, REDUCING CONTINUOUS LENGTH OF SLOPE WITH TERRACING AND DIVERSIONS, REDUCING SLOPE STEEPNESS, AND ROUGHENING SLOPE SURFACES (FOR EXAMPLE, TRACK WALKING).
- DIVERT OFF-SITE STORMWATER (RUN-ON) OR GROUND WATER AWAY FROM SLOPES AND DISTURBED AREAS WITH INTERCEPTOR DIKES, PIPES AND/OR SWALES. OFF-SITE STORMWATER SHOULD BE MANAGED SEPARATELY FROM STORMWATER GENERATED ON THE SITE.
- AT THE TOP OF SLOPES, COLLECT DRAINAGE IN PIPE SLOPE DRAINS OR PROTECTED CHANNELS TO PREVENT EROSION. TEMPORARY PIPE SLOPE DRAINS MUST BE SIZED TO CONVEY THE FLOW RATE CALCULATED BY ONE OF THE FOLLOWING METHODS:
  - SINGLE EVENT HYDROGRAPH METHOD: THE PEAK VOLUMETRIC FLOW RATE CALCULATED USING A 10-MINUTE TIME STEP FROM A TYPE 1A, 10-YEAR, 24-HOUR FREQUENCY STORM.
    OR
  - CONTINUOUS SIMULATION METHOD: THE 10-YEAR PEAK FLOW RATE, AS DETERMINED BY AN APPROVED CONTINUOUS RUNOFF MODEL WITH A 15-MINUTE TIME STEP.

  THE HYDROLOGIC ANALYSIS MUST USE THE EXISTING LAND COVER CONDITION FOR PREDICTING FLOW RATES FROM TRIBUTARY AREAS OUTSIDE THE PROJECT LIMITS. FOR TRIBUTARY AREAS ON THE PROJECT SITE, THE ANALYSIS MUST USE THE TEMPORARY OR PERMANENT PROJECT LAND COVER CONDITION, WHICHEVER WILL PRODUCE THE HIGHEST FLOW RATES. IF USING THE WESTERN WASHINGTON HYDROLOGY MODEL (WWHM) TO PREDICT FLOWS, BARE SOIL AREAS SHOULD BE MODELED AS "LANDSCAPED" AREA.
- PLACE EXCAVATED MATERIAL ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.
- PLACE CHECK DAMS AT REGULAR INTERVALS WITHIN CONSTRUCTED CHANNELS THAT ARE CUT DOWN A SLOPE.

BMP C120: TEMPORARY AND PERMANENT SEEDING
BMP C130: SURFACE ROUGHENING

ELEMENT 7: PROTECT DRAIN INLETS

- PROTECT ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT.
- CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE (UNLESS A DIFFERENT STANDARD IS SPECIFIED BY THE PRODUCT MANUFACTURER).

BMP C220: INLET PROTECTION

ELEMENT 8: STABILIZE CHANNELS AND OUTLETS

- DESIGN, CONSTRUCT, AND STABILIZE ALL ON-SITE CONVEYANCE CHANNELS TO PREVENT EROSION FROM THE FLOW RATE CALCULATED BY ONE OF THE FOLLOWING METHODS:
  - SINGLE EVENT HYDROGRAPH METHOD: THE PEAK VOLUMETRIC FLOW RATE CALCULATED USING A 10-MINUTE TIME STEP FROM A TYPE 1A, 10-YEAR, 24-HOUR FREQUENCY STORM.
    OR
  - CONTINUOUS SIMULATION METHOD: THE 10-YEAR PEAK FLOW RATE, AS DETERMINED BY AN APPROVED CONTINUOUS RUNOFF MODEL WITH A 15-MINUTE TIME STEP.

  THE HYDROLOGIC ANALYSIS MUST USE THE EXISTING LAND COVER CONDITION FOR PREDICTING FLOW RATES FROM TRIBUTARY AREAS OUTSIDE THE PROJECT LIMITS. FOR TRIBUTARY AREAS ON THE PROJECT SITE, THE ANALYSIS MUST USE THE TEMPORARY OR PERMANENT PROJECT LAND COVER CONDITION, WHICHEVER WILL PRODUCE THE HIGHEST FLOW RATES. IF USING THE WESTERN WASHINGTON HYDROLOGY MODEL (WWHM) TO PREDICT FLOWS, BARE SOIL AREAS SHOULD BE MODELED AS "LANDSCAPED AREA.
- PROVIDE STABILIZATION, INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES AND DOWNSTREAM REACHES AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS.

BMP C209: OUTLET PROTECTION

ELEMENT 9: CONTROL POLLUTANTS

DESIGN, INSTALL, IMPLEMENT AND MAINTAIN EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE THE DISCHARGE OF POLLUTANTS. THE PROJECT PROPONENT MUST:

- HANDLE AND DISPOSE OF ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON SITE IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
- PROVIDE COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND OTHER MATERIALS THAT HAVE THE POTENTIAL TO POSE A THREAT TO HUMAN HEALTH OR THE ENVIRONMENT. ON-SITE FUELING TANKS MUST INCLUDE SECONDARY CONTAINMENT. SECONDARY CONTAINMENT MEANS PLACING TANKS OR CONTAINERS WITHIN AN IMPERVIOUS STRUCTURE CAPABLE OF CONTAINING 110% OF THE VOLUME CONTAINED IN THE LARGEST TANK WITHIN THE CONTAINMENT STRUCTURE. DOUBLE-WALLED TANKS DO NOT REQUIRE ADDITIONAL SECONDARY CONTAINMENT.
- CONDUCT MAINTENANCE, FUELING, AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES USING SPILL PREVENTION AND CONTROL MEASURES. CLEAN CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY SPILL INCIDENT.
- DISCHARGE WHEEL WASH OR TIRE BATH WASTEWATER TO A SEPARATE ON-SITE TREATMENT SYSTEM THAT PREVENTS DISCHARGE TO SURFACE WATER, OR TO THE SANITARY SEWER, WITH LOCAL SEWER DISTRICT APPROVAL.
- APPLY FERTILIZERS AND PESTICIDES IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. FOLLOW MANUFACTURERS' LABEL REQUIREMENTS FOR APPLICATION RATES AND PROCEDURES.
- USE BMPS TO PREVENT CONTAMINATION OF STORMWATER RUNOFF BY PH MODIFYING SOURCES. THE SOURCES FOR THIS CONTAMINATION INCLUDE, BUT ARE NOT LIMITED TO: RECYCLED CONCRETE STOCKPILES, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, DEWATERING CONCRETE VAULTS, CONCRETE PUMPING AND MIXER WASHOUT WATERS.
- ADJUST THE PH OF STORMWATER IF NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS.
- ASSURE THAT WASHOUT OF CONCRETE TRUCKS IS PERFORMED OFF SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCK DRUMS OR CONCRETE HANDLING EQUIPMENT ONTO THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. WASHOUT OF SMALL CONCRETE HANDLING EQUIPMENT MAY BE DISPOSED OF IN A FORMED AREA AWAITING CONCRETE WHERE IT WILL NOT CONTAMINATE SURFACE OR GROUND WATER. DO NOT DUMP EXCESS CONCRETE ON SITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. CONCRETE SPILLAGE OR CONCRETE DISCHARGE TO SURFACE WATERS OF THE STATE IS PROHIBITED.
- OBTAIN WRITTEN APPROVAL FROM ECOLOGY BEFORE USING CHEMICAL TREATMENT OTHER THAN CO2 OR DRY ICE, OR FOOD GRADE VINEGAR TO ADJUST PH.

BMP C151: CONCRETE HANDLING
BMP C154: CONCRETE WASHOUT AREA

ELEMENT 10: CONTROL DE-WATERING

- DISCHARGE FOUNDATION, VAULT, AND TRENCH DE-WATERING WATER, WHICH HAVE SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, INTO A CONTROLLED CONVEYANCE SYSTEM BEFORE DISCHARGE TO BMP C240: SEDIMENT TRAP OR BMP C241: SEDIMENT POND (TEMPORARY).
- DISCHARGE CLEAR, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, TO SYSTEMS TRIBUTARY TO, OR DIRECTLY INTO SURFACE WATERS OF THE STATE, AS SPECIFIED IN ELEMENT 8: STABILIZE CHANNELS AND OUTLETS, PROVIDED THE DEWATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS. DO NOT ROUTE CLEAN DEWATERING WATER THROUGH STORMWATER SEDIMENT BMPS. NOTE THAT SURFACE WATERS OF THE STATE MAY EXIST ON A CONSTRUCTION SITE AS WELL AS OFF SITE; FOR EXAMPLE, A CREEK RUNNING THROUGH A SITE.
- HANDLE HIGHLY TURBID OR OTHERWISE CONTAMINATED DEWATERING WATER SEPARATELY FROM STORMWATER.
- OTHER DEWATERING TREATMENT OR DISPOSAL OPTIONS MAY INCLUDE:
  1. INFILTRATION.
  2. TRANSPORT OFF SITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS.
  3. ECOLOGY-APPROVED ON-SITE CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES.
  4. SANITARY OR COMBINED SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, IF THERE IS NO OTHER OPTION.
  5. USE OF A SEDIMENTATION BAG THAT DISCHARGES TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DEWATERING.

CONTRACTOR TO UTILIZE APPROPRIATE BMPS FROM THE 2019 SWMMWW IF DE-WATERING IS NEEDED

ELEMENT 11: MAINTAIN BMPS

- MAINTAIN AND REPAIR ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION IN ACCORDANCE WITH BMP SPECIFICATIONS.
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS WITHIN 30 DAYS AFTER ACHIEVING FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED.

BMP C160: CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

ELEMENT 12: MANAGE THE PROJECT

- PHASE DEVELOPMENT PROJECTS TO THE MAXIMUM DEGREE PRACTICABLE AND TAKE INTO ACCOUNT SEASONAL WORK LIMITATIONS.
- INSPECT, MAINTAIN AND REPAIR ALL BMPS AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. PROJECTS REGULATED UNDER THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP) MUST CONDUCT SITE INSPECTIONS AND MONITORING IN ACCORDANCE WITH SPECIAL CONDITION S4 OF THE CSWGP.
- MAINTAIN, UPDATE, AND IMPLEMENT THE CONSTRUCTION SWPPP.
- PROJECTS THAT DISTURB ONE OR MORE ACRES MUST HAVE SITE INSPECTIONS CONDUCTED BY A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). PROJECT SITES DISTURBING LESS THAN ONE ACRE MAY HAVE A CESCL OR A PERSON WITHOUT CESCL CERTIFICATION CONDUCT INSPECTIONS. BY THE INITIATION OF CONSTRUCTION, THE CONSTRUCTION SWPPP MUST IDENTIFY THE CESCL OR INSPECTOR, WHO MUST BE PRESENT ON SITE OR ON-CALL AT ALL TIMES.
- ADDITIONAL GUIDANCE FOR ELEMENT 12
  - THE PROJECT MANAGER MUST ENSURE THAT THE PROJECT IS BUILT IN SUCH A WAY TO COMPLY WITH ALL CONSTRUCTION SWPPP ELEMENTS, AS DETAILED IN THIS SECTION. CONSIDERATIONS FOR THE PROJECT MANAGER INCLUDE, BUT ARE NOT LIMITED TO:
    - CONSTRUCTION PHASING
    - SEASONAL WORK LIMITATIONS
    - COORDINATION WITH UTILITIES AND OTHER CONTRACTORS
    - INSPECTION
    - MONITORING
    - MAINTAINING AN UPDATED CONSTRUCTION SWPPP
  - PHASING OF CONSTRUCTION
    - PHASE DEVELOPMENT PROJECTS WHERE FEASIBLE IN ORDER TO PREVENT SOIL EROSION AND TRANSPORTING OF SEDIMENT FROM THE SITE DURING CONSTRUCTION, REVEGETATE EXPOSED AREAS AND MAINTAIN THAT VEGETATION AS AN INTEGRAL PART OF THE CLEARING ACTIVITIES FOR ANY PHASE.
    - CLEARING AND GRADING ACTIVITIES FOR DEVELOPMENTS SHALL BE PERMITTED ONLY IF CONDUCTED USING AN APPROVED SITE DEVELOPMENT PLAN (E.G., SUBDIVISION APPROVAL) THAT ESTABLISHES PERMITTED AREAS OF CLEARING, GRADING, CUTTING, AND FILLING. MINIMIZE REMOVING TREES AND DISTURBING OR COMPACTING NATIVE SOILS WHEN ESTABLISHING PERMITTED CLEARING AND GRADING AREAS. SHOW ON THE SITE PLANS AND THE DEVELOPMENT SITE PERMITTED CLEARING AND GRADING AREAS AND ANY OTHER AREAS REQUIRED TO PRESERVE CRITICAL OR SENSITIVE AREAS, BUFFERS, NATIVE GROWTH PROTECTION EASEMENTS, OR TREE RETENTION AREAS AS MAY BE REQUIRED BY LOCAL JURISDICTIONS.
  - INSPECTION
    - ALL BMPS MUST BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. SITE INSPECTIONS MUST BE CONDUCTED BY A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL. THE PERSON MUST HAVE THE SKILLS TO 1) ASSESS THE SITE CONDITIONS AND CONSTRUCTION ACTIVITIES THAT COULD IMPACT THE QUALITY OF STORMWATER, AND 2) ASSESS THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES USED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES.
    - FOR CONSTRUCTION SITES ONE ACRE OR LARGER THAT DISCHARGE STORMWATER TO SURFACE WATERS OF THE STATE, A CESCL MUST BE IDENTIFIED IN THE CONSTRUCTION SWPPP; THIS PERSON MUST BE ON-SITE OR ON-CALL AT ALL TIMES. CERTIFICATION MUST BE OBTAINED THROUGH AN APPROVED TRAINING PROGRAM THAT MEETS THE EROSION AND SEDIMENT CONTROL TRAINING STANDARDS ESTABLISHED BY ECOLOGY. SEE BMP C160: CERTIFIED EROSION AND SEDIMENT CONTROL LEAD.
    - APPROPRIATE BMPS OR DESIGN CHANGES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO THE ACTUAL DISCHARGE OF/OR POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT.
    - THE CESCL OR INSPECTOR MUST EXAMINE STORMWATER VISUALLY FOR THE PRESENCE OF SUSPENDED SEDIMENT, TURBIDITY, DISCOLORATION, AND OIL SHEEN. THEY MUST EVALUATE THE EFFECTIVENESS OF BMPS AND DETERMINE IF IT IS NECESSARY TO INSTALL, MAINTAIN, OR REPAIR BMPS TO IMPROVE THE QUALITY OF STORMWATER DISCHARGES.
    - BASED ON THE RESULTS OF THE INSPECTION, CONSTRUCTION SITE OPERATORS MUST CORRECT THE PROBLEMS IDENTIFIED BY:
      - REVIEWING THE CONSTRUCTION SWPPP FOR COMPLIANCE WITH THE 13 ELEMENTS AND MAKING APPROPRIATE REVISIONS WITHIN 7 DAYS OF THE INSPECTION.
      - IMMEDIATELY BEGINNING THE PROCESS OF FULLY IMPLEMENTING AND MAINTAINING APPROPRIATE SOURCE CONTROL AND/OR TREATMENT BMPS AS SOON AS POSSIBLE, ADDRESSING THE PROBLEMS NO LATER THAN WITHIN 10 DAYS OF THE INSPECTION. IF INSTALLATION OF NECESSARY TREATMENT BMPS IS NOT FEASIBLE WITHIN 10 DAYS, THE CONSTRUCTION SITE OPERATOR MAY REQUEST AN EXTENSION WITHIN THE INITIAL 10-DAY RESPONSE PERIOD.
      - DOCUMENTING BMP IMPLEMENTATION AND MAINTENANCE IN THE SITE LOG BOOK (APPLIES ONLY TO SITES THAT HAVE COVERAGE UNDER THE CONSTRUCTION STORMWATER GENERAL PERMIT).
    - THE CESCL OR INSPECTOR MUST INSPECT ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, ALL BMPS, AND ALL STORMWATER DISCHARGE POINTS AT LEAST ONCE EVERY CALENDAR WEEK AND WITHIN 24 HOURS OF ANY DISCHARGE FROM THE SITE. (FOR PURPOSES OF THIS CONDITION, INDIVIDUAL DISCHARGE EVENTS THAT LAST MORE THAN ONE DAY DO NOT REQUIRE DAILY INSPECTIONS. FOR EXAMPLE, IF A STORMWATER POND DISCHARGES CONTINUOUSLY OVER THE COURSE OF A WEEK, ONLY ONE INSPECTION IS REQUIRED THAT WEEK.) THE CESCL OR INSPECTOR MAY REDUCE THE INSPECTION FREQUENCY FOR TEMPORARY STABILIZED, INACTIVE SITES TO ONCE EVERY CALENDAR MONTH
- MAINTAINING AN UPDATED CONSTRUCTION SWPPP
  - RETAIN THE CONSTRUCTION SWPPP ON-SITE OR WITHIN REASONABLE ACCESS TO THE SITE.
  - MODIFY THE CONSTRUCTION SWPPP WHENEVER THERE IS A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE CONSTRUCTION SITE THAT HAS, OR COULD HAVE, A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO WATERS OF THE STATE.
  - THE CONSTRUCTION SWPPP MUST BE MODIFIED IF, DURING INSPECTIONS OR INVESTIGATIONS CONDUCTED BY THE OWNER/OPERATOR, OR THE APPLICABLE LOCAL OR STATE REGULATORY AUTHORITY, IT IS DETERMINED THAT THE CONSTRUCTION SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES FROM THE SITE. MODIFY THE CONSTRUCTION SWPPP AS NECESSARY TO INCLUDE ADDITIONAL OR MODIFIED BMPS DESIGNED TO CORRECT PROBLEMS IDENTIFIED. COMPLETE REVISIONS TO THE CONSTRUCTION SWPPP WITHIN SEVEN (7) DAYS FOLLOWING THE INSPECTION.

BMP C160: CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

ELEMENT 13: PROTECT LOW IMPACT DEVELOPMENT BMPS

- THE PRIMARY PURPOSE OF ON-SITE STORMWATER MANAGEMENT IS TO REDUCE THE DISRUPTION OF THE NATURAL SITE HYDROLOGY THROUGH INFILTRATION. BMPS USED TO MEET I-3.4.5 MR5: ON-SITE STORMWATER MANAGEMENT (OFTEN CALLED LID BMPS) ARE PERMANENT FACILITIES.
- PROTECT ALL LID BMPS (INCLUDING, BUT NOT LIMITED TO BMP T7.30: BIORETENTION, BMP T5.14: RAIN GARDENS, AND BMP T5.15: PERMEABLE PAVEMENTS) FROM SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPS ON PORTIONS OF THE SITE THAT DRAIN INTO THE LID BMPS. RESTORE THE BMPS TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF SEDIMENT AND ANY SEDIMENT-LADEN BIORETENTION/RAIN GARDEN SOILS, AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN SPECIFICATION.
- MAINTAIN THE INFILTRATION CAPABILITIES OF LID BMPS BY PROTECTING AGAINST COMPACTION BY CONSTRUCTION EQUIPMENT AND FOOT TRAFFIC. PROTECT COMPLETED LAWN AND LANDSCAPED AREAS FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT.
- CONTROL EROSION AND AVOID INTRODUCING SEDIMENT FROM SURROUNDING LAND USES ONTO BMP T5.15: PERMEABLE PAVEMENTS. DO NOT ALLOW MUDDY CONSTRUCTION EQUIPMENT ON THE BASE MATERIAL OR PAVEMENT. DO NOT ALLOW SEDIMENT-LADEN RUNOFF ONTO PERMEABLE PAVEMENTS OR BASE MATERIALS.
- PERMEABLE PAVEMENT FOULED WITH SEDIMENTS OR NO LONGER PASSING AN INITIAL INFILTRATION TEST MUST BE CLEANED USING PROCEDURES IN ACCORDANCE WITH THIS MANUAL OR THE MANUFACTURER'S PROCEDURES.
- KEEP ALL HEAVY EQUIPMENT OFF EXISTING SOILS UNDER LID BMPS THAT HAVE BEEN EXCAVATED TO FINAL GRADE TO RETAIN THE INFILTRATION RATE OF THE SOILS.
- ADDITIONAL GUIDANCE FOR ELEMENT 13
  - SEE CHAPTER 5: PRECISION SITE PREPARATION, CONSTRUCTION & INSPECTION OF LID FACILITIES IN THE LID TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND (HINMAN AND WULKAN, 2012) FOR MORE DETAIL ON PRO-TECTING LID INTEGRATED MANAGEMENT PRACTICES.
  - NOTE THAT THE LID TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND (HINMAN AND WULKAN. 2012) IS FOR ADDITIONAL INFORMATIONAL PURPOSES ONLY. YOU MUST FOLLOW THE GUIDANCE WITHIN THIS MANUAL IF THERE AREANY DISCREPANCIES BETWEEN THIS MANUAL AND THE LID TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND (HINMAN AND WULKAN, 2012).

BMP C102: BUFFER ZONES
BMP C103: HIGH-VISIBILITY FENCE
BMP C200: INTERCEPTOR DIKE AND SWALE
BMP C201: GRASS-LINED CHANNELS
BMP C207: CHECK DAMS
BMP C208: TRIANGULAR SILT DIKE (TSD)
BMP C231: BRUSH BARRIER
BMP C233: SILT FENCE
BMP C234: VEGETATED STRIP

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SUBMITTED WITH DESIGN PLAN

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DRAWN BY GS/LMH
CHECKED BY LP

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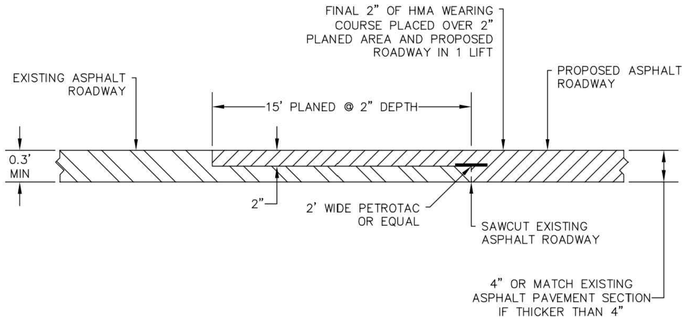
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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TESC AND DEMO DETAILS

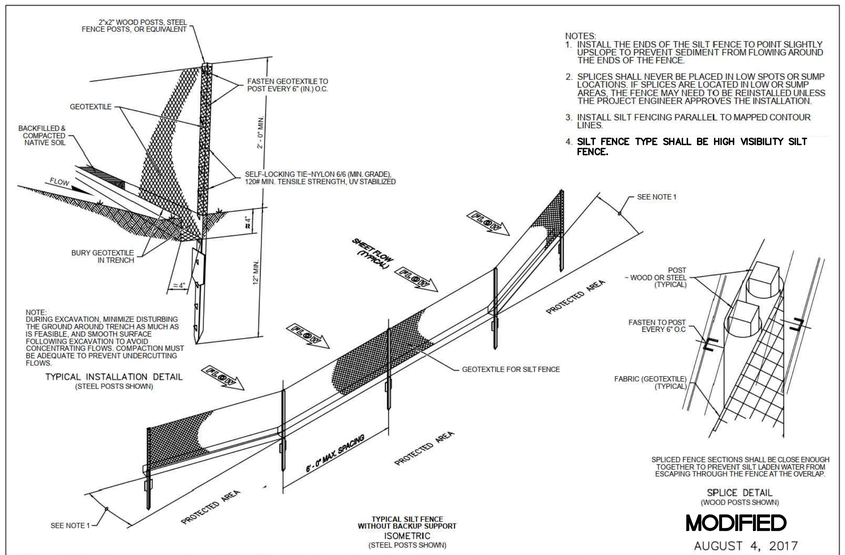
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JOB# 18023
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DATE 8/27/2026
SHEET 12 of 85

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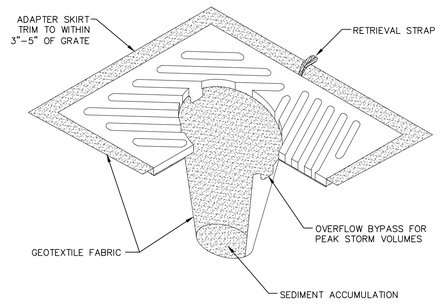
NOVEMBER 25, 2016

APPROVED		PLANING OF EXISTING AND/OR EXTENDING/REPLACING PAVEMENT SECTIONS
Public Works Director	8/11/17 Date	STANDARD DETAIL R-3
		NOT TO SCALE



MODIFIED
AUGUST 4, 2017

APPROVED		SILT FENCE
Public Works Director	8/11/17 Date	STANDARD DETAIL ST-27
		NOT TO SCALE



NOTES:
1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING & 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, & RE-INSERTING IT INTO THE CATCH BASIN.

INLET PROTECTION - CB INSERT

NTS

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

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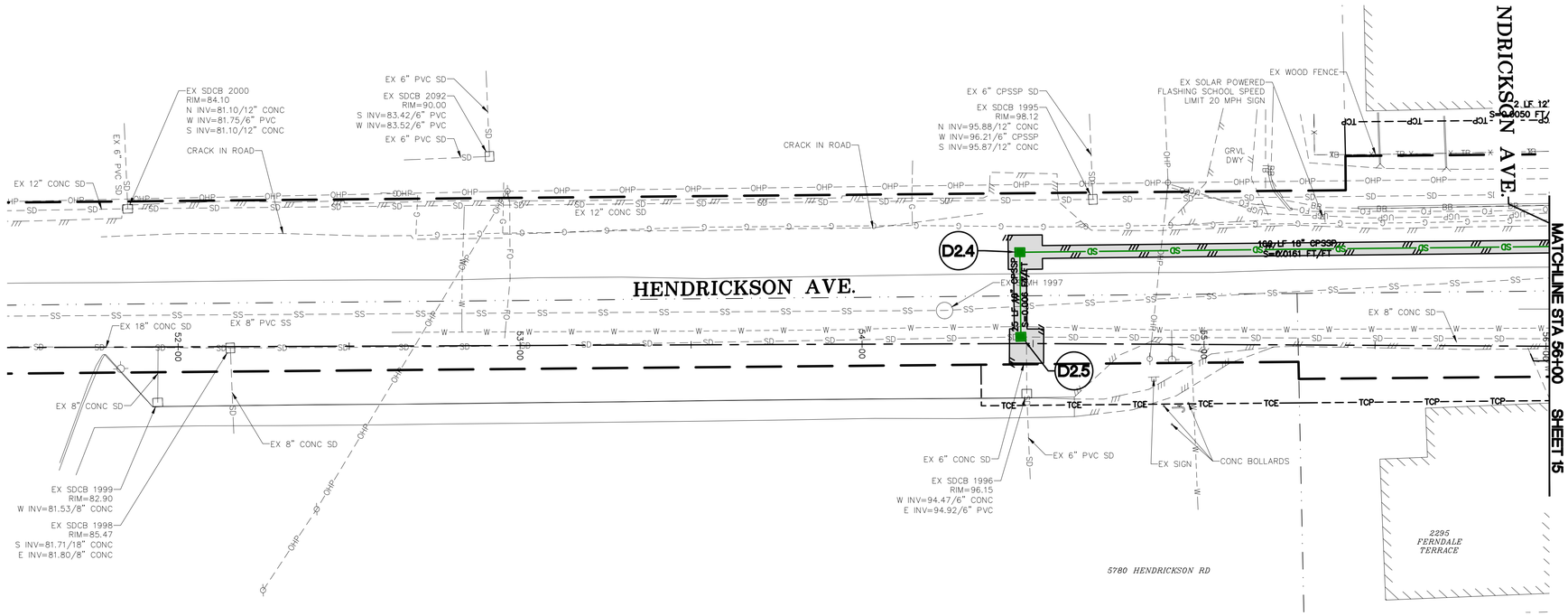
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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TESC AND DEMO DETAILS

DWG 18023 DETAILS
JOB# 18023
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DATE 8/27/2026
SHEET 13 of 85

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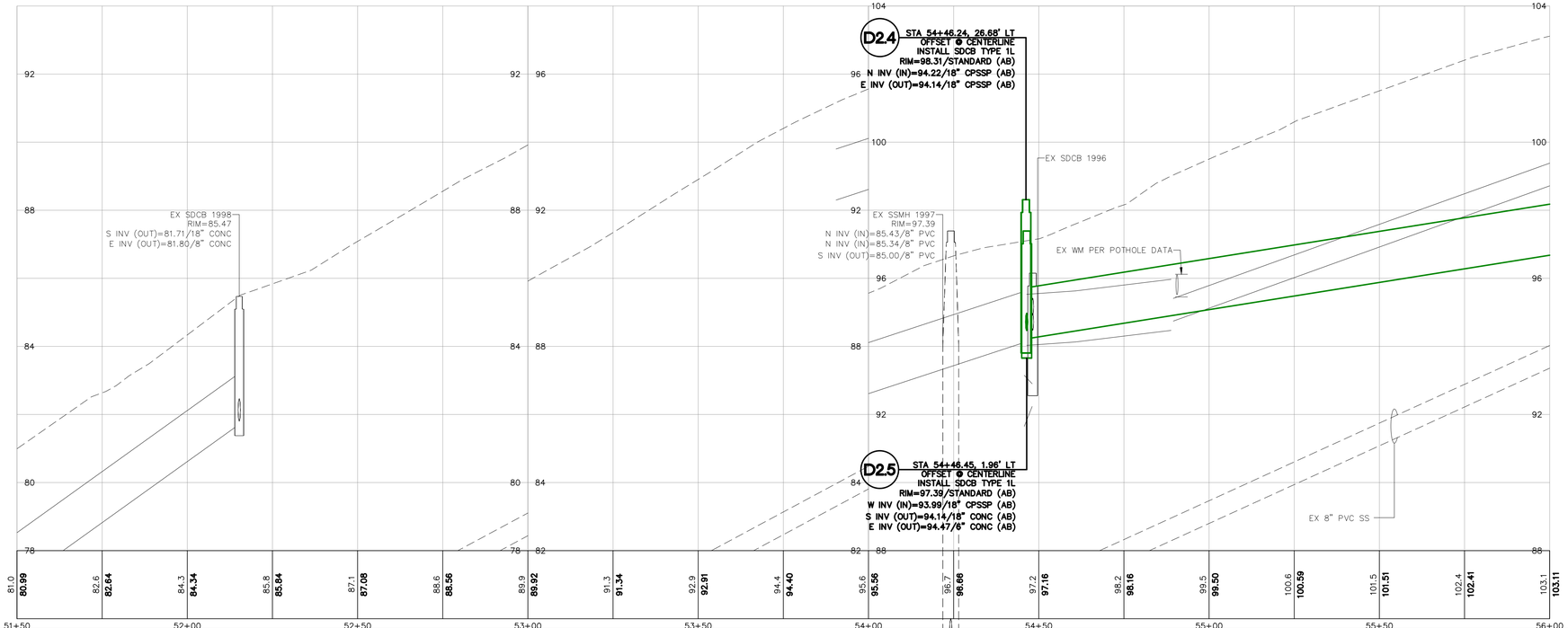
GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' H, 1"=2' V (22x34)

1"=40' H, 1"=4' V (11x17)



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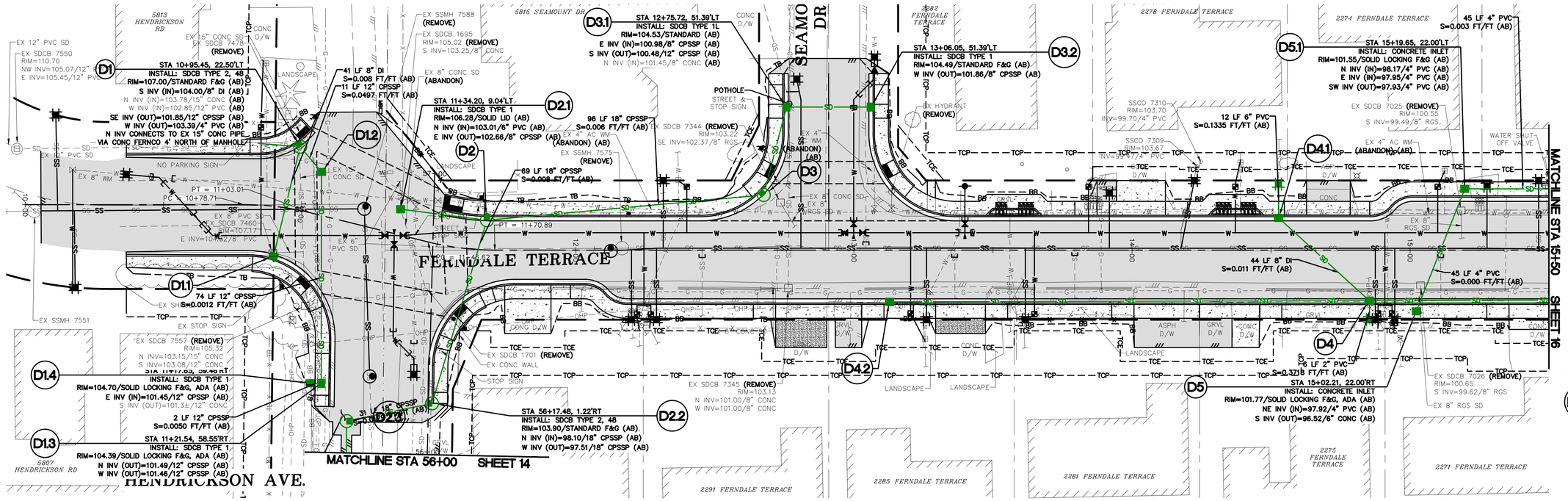
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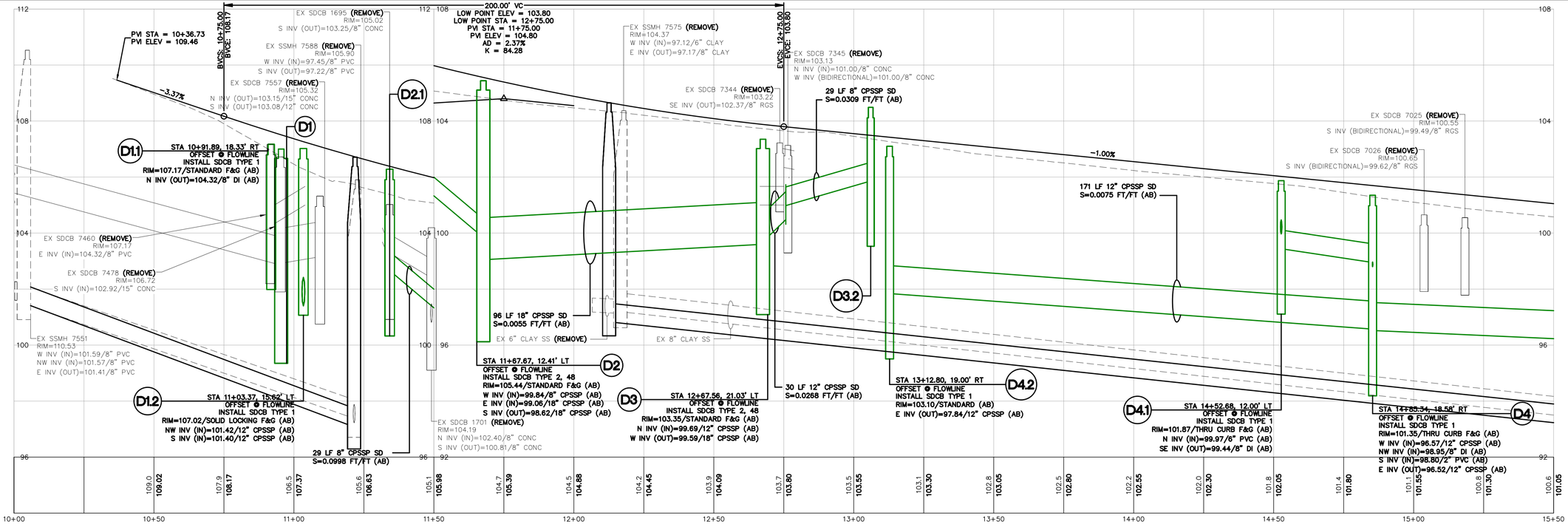
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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM PLAN - HENDRICKSON

DWG 18023 PLANS			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: 1"=2'		SHEET 14 of 85

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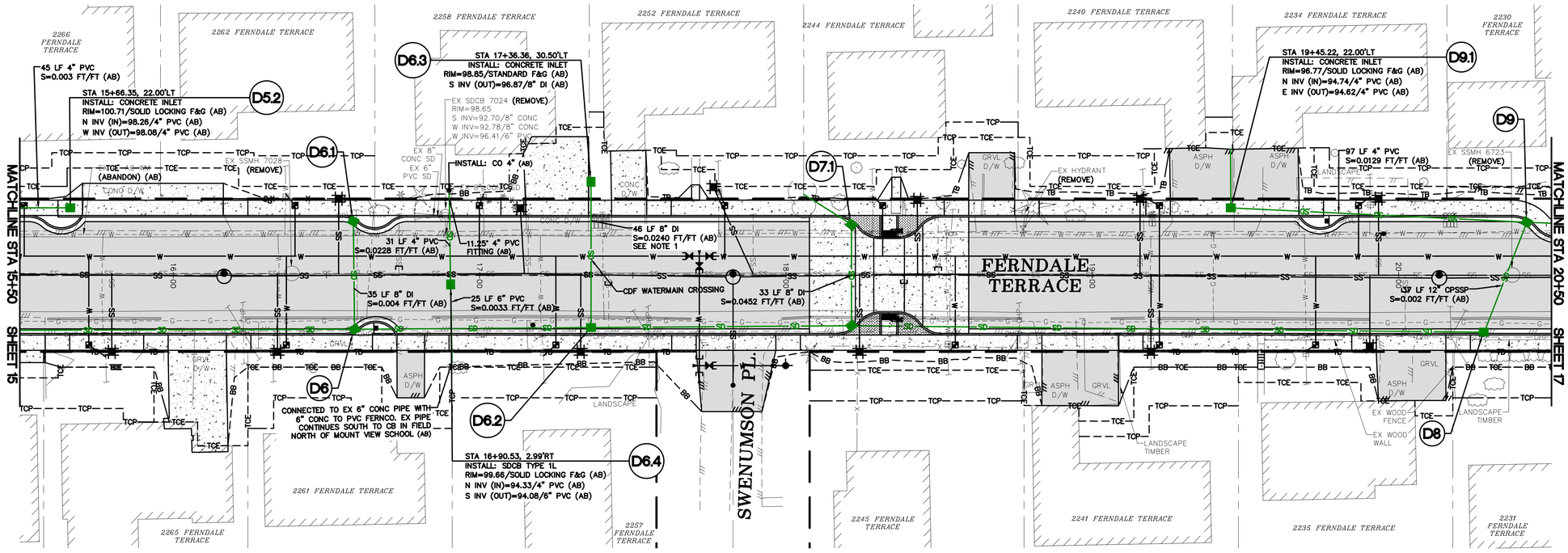
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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM PLAN - STA 10+00 TO 15+50

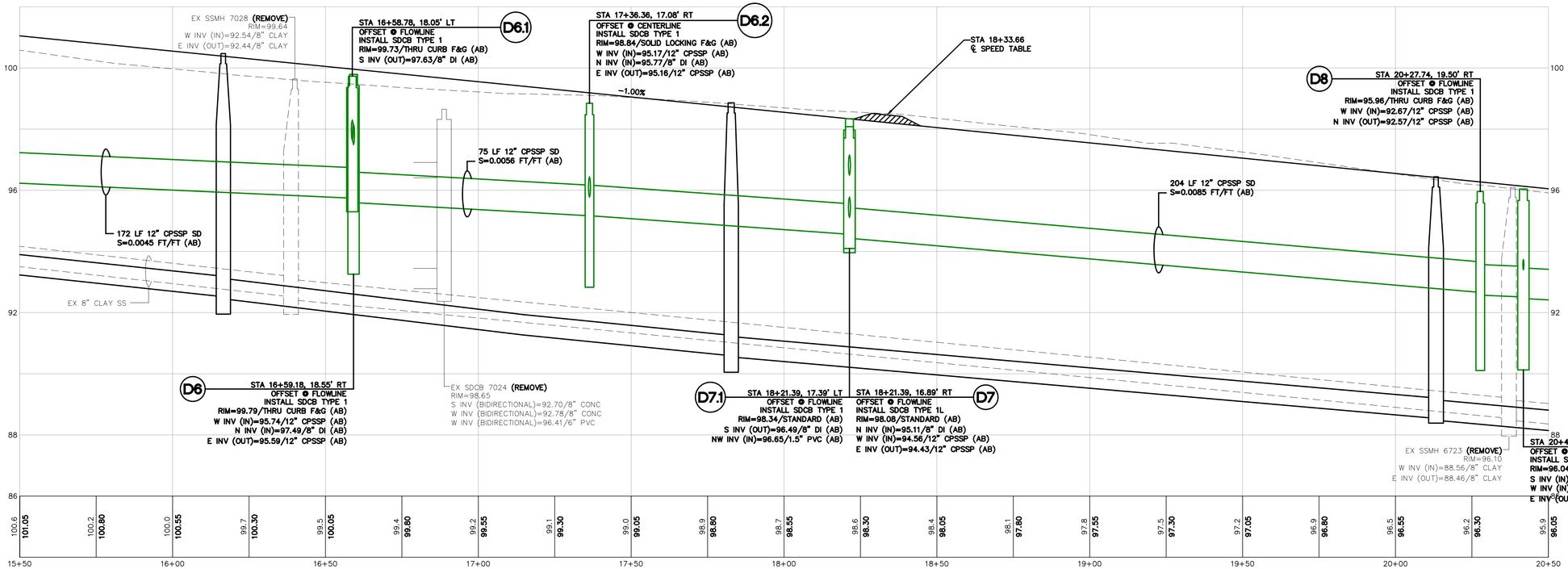
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JOB# 18023
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SHEET 15 of 85

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NOTES:

1. CUT GEOTEXTILE ALONG PIPE & AND ROLL BACK A MIN. OF 2 FT BEYOND TRENCH EXCAVATION. LAY GEOTEXTILE BACK ONCE BACKFILLED AND INSTALL ONE PIECE OF GEOTEXTILE ALONG CUT LINE A MIN. OF 6 FT WIDTH CENTERED ON CUT LINE. SEE DETAIL ON SHEET 28.



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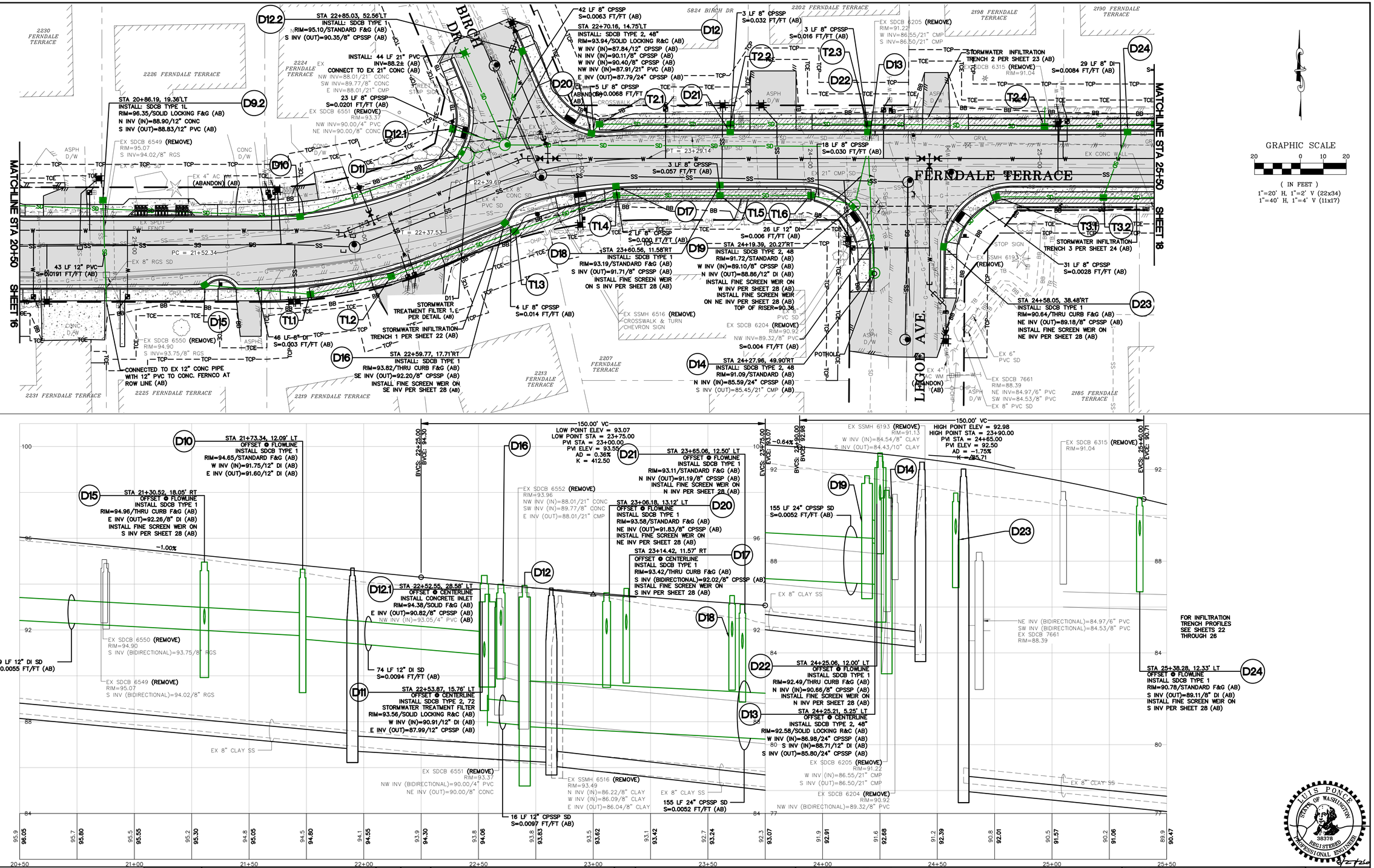
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CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM PLAN - STA 15+50 TO 20+50

DWG	DATE
18023 PLANS	8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: 1" = 2'
	SHEET 16 of 85

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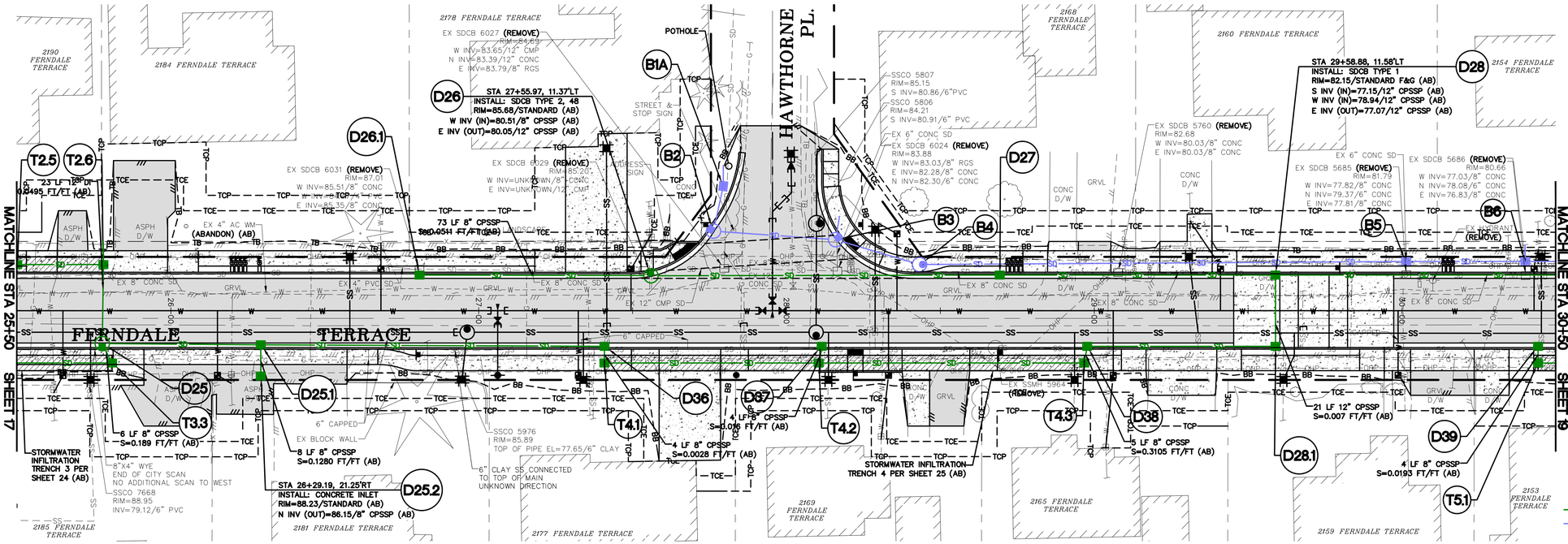
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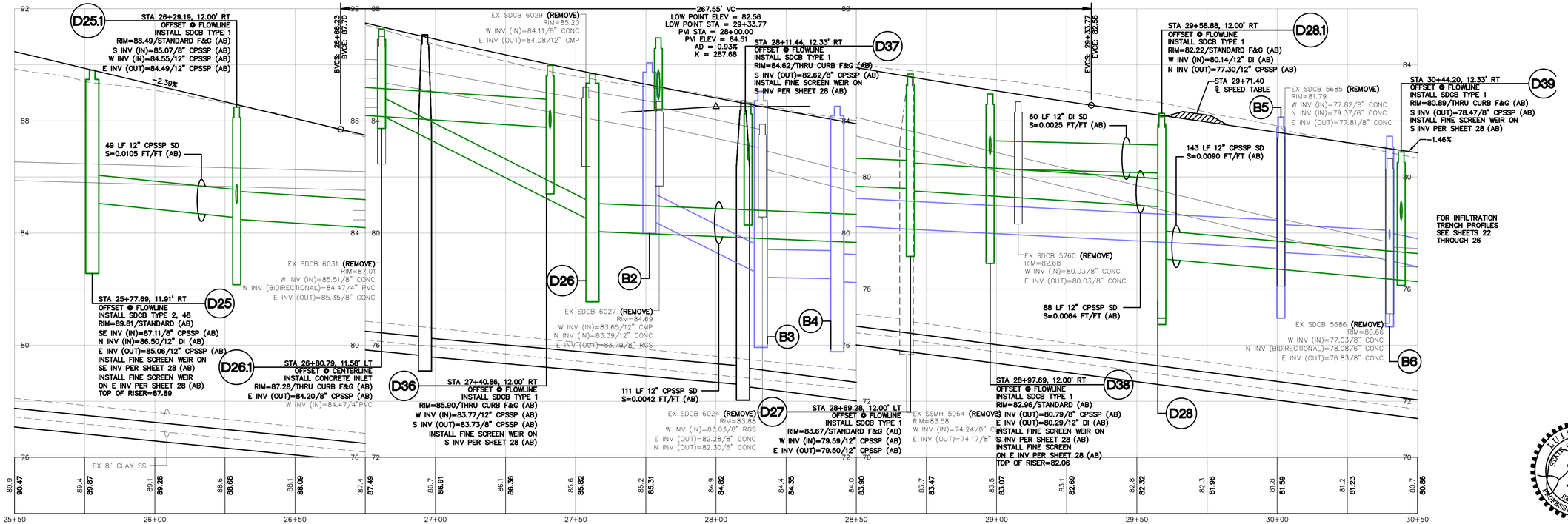
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM PLAN - STA 20+50 TO 25+50

DWG 18023 PLANS
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 17 of 85

P:\Projects\18023\Civil 3D 2015\18023 PLANS.dwg, 17-STORM PLAN - STA 20+50 TO 25+50, 8/26/2026 12:30:40 PM, , AutoCAD PDF (General Documentation).pc3





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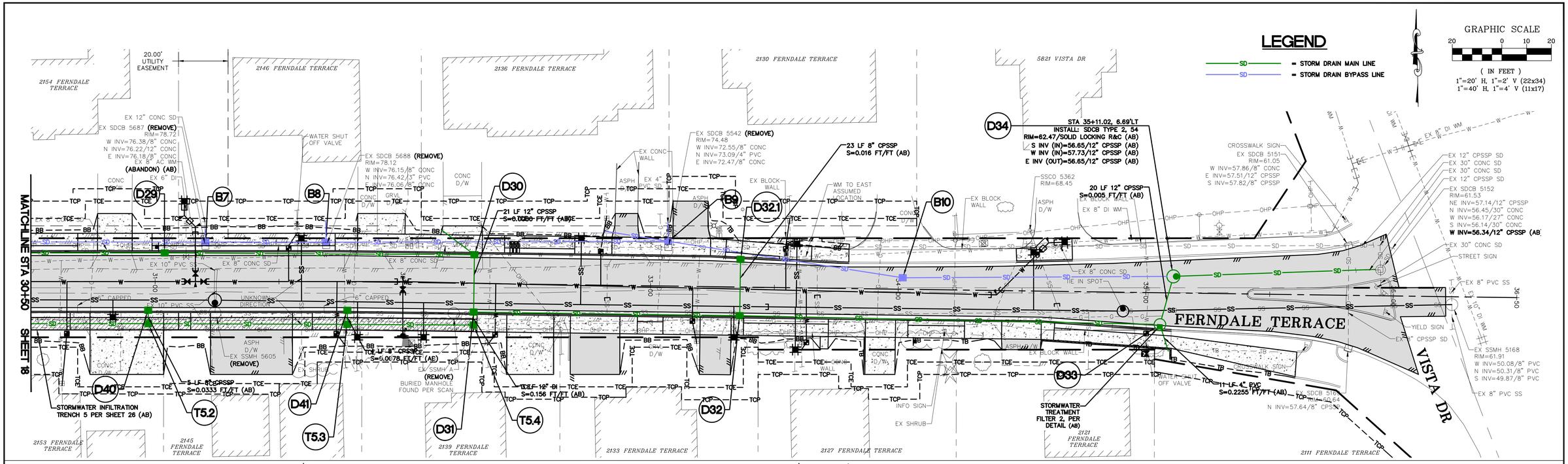
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM PLAN - STA 25+50 TO 30+50

DWG 18023 PLANS
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 18 of 85

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FERNDALE TERRACE PROJECT

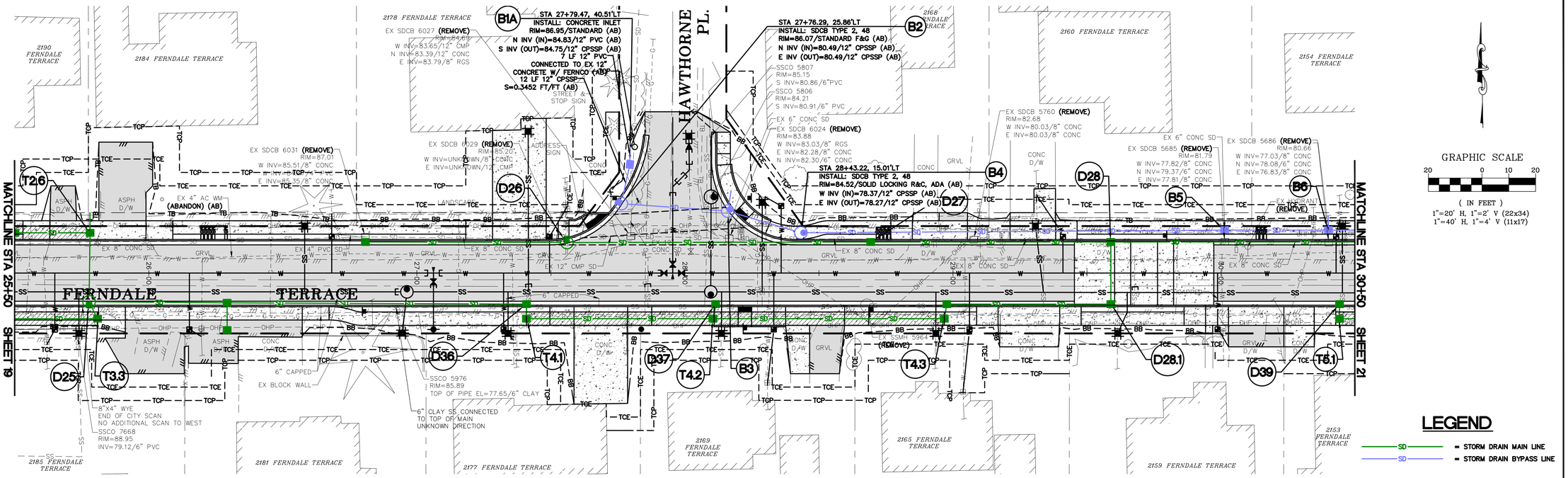
HENDRICKSON AVENUE TO VISTA DRIVE

STORM PLAN - STA 30+50 TO 36+50

DWG	18023 PLANS	DATE	8/27/2026
JOB#	18023	SCALE	H: 1" = 20' V: 1" = 2'
SHEET	19 of 85		

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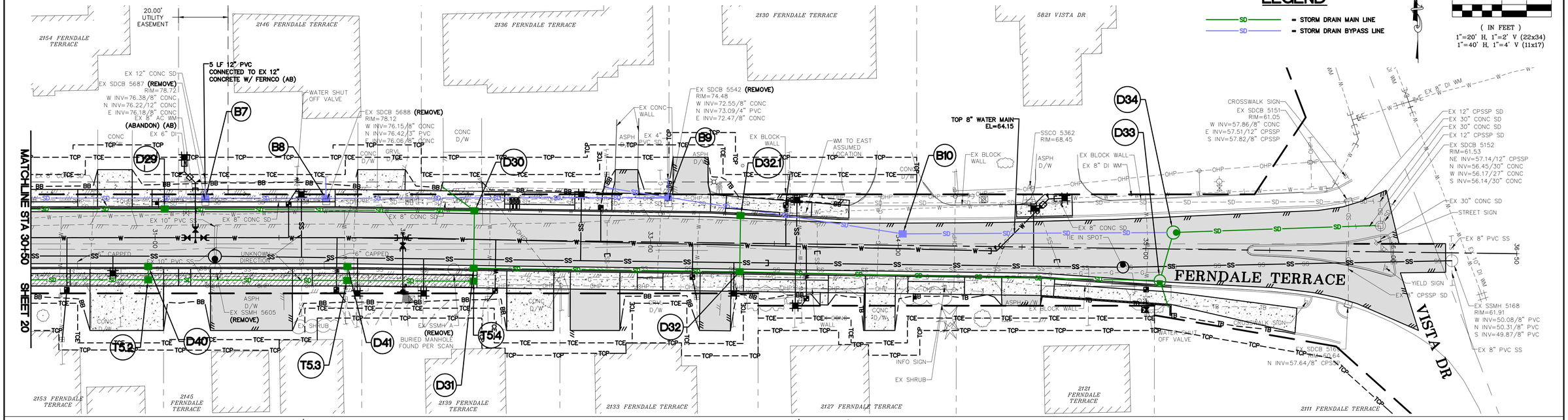
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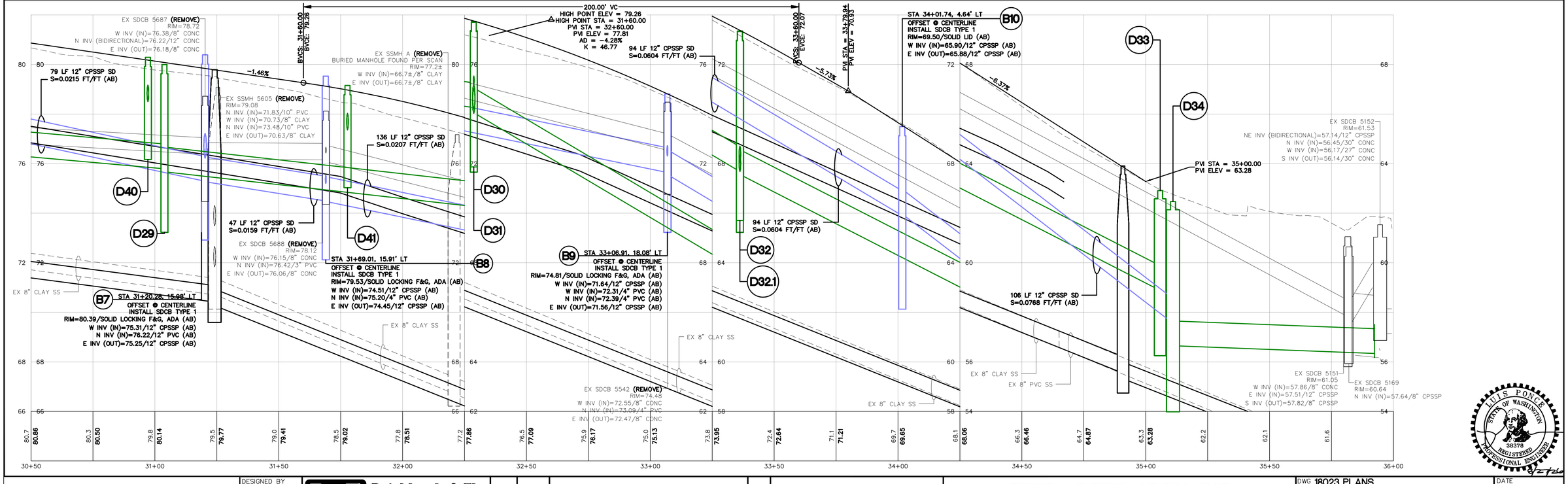
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM BYPASS - STA 25+50 TO 30+50

DWG 18023 PLANS
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 20 of 85

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NO.	DATE	DESCRIPTION	BY

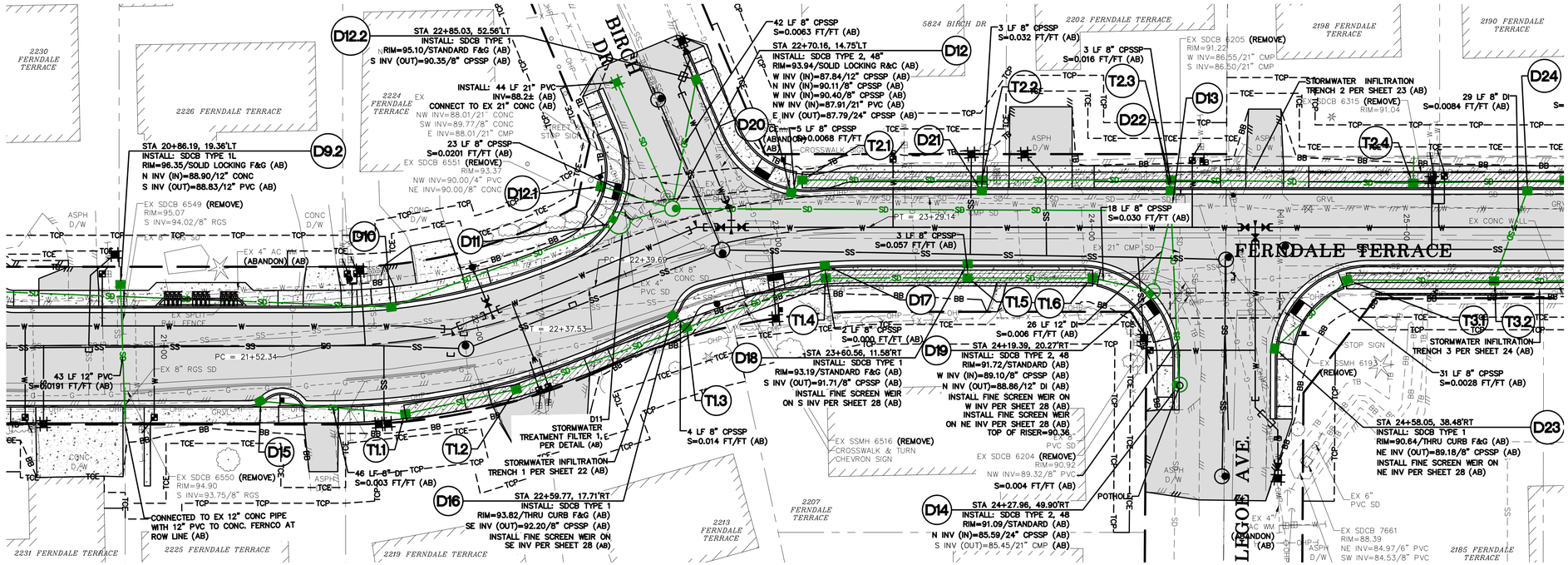
CITY OF FERNDALE
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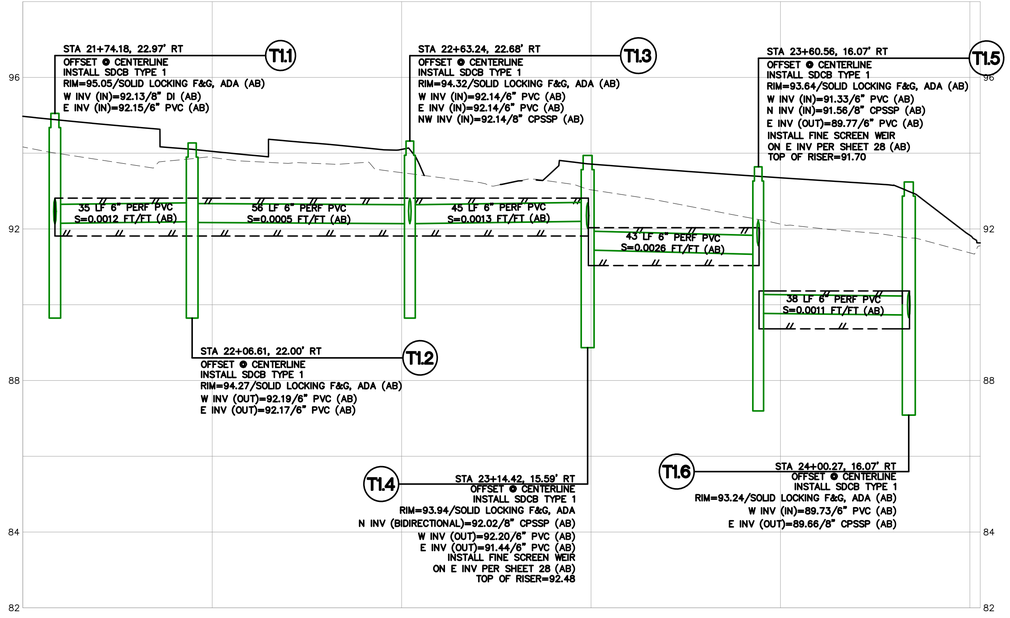
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM BYPASS - STA 30+50 TO 36+50

DWG 18023 PLANS
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
DATE 8/27/2026
SHEET 21 of 85

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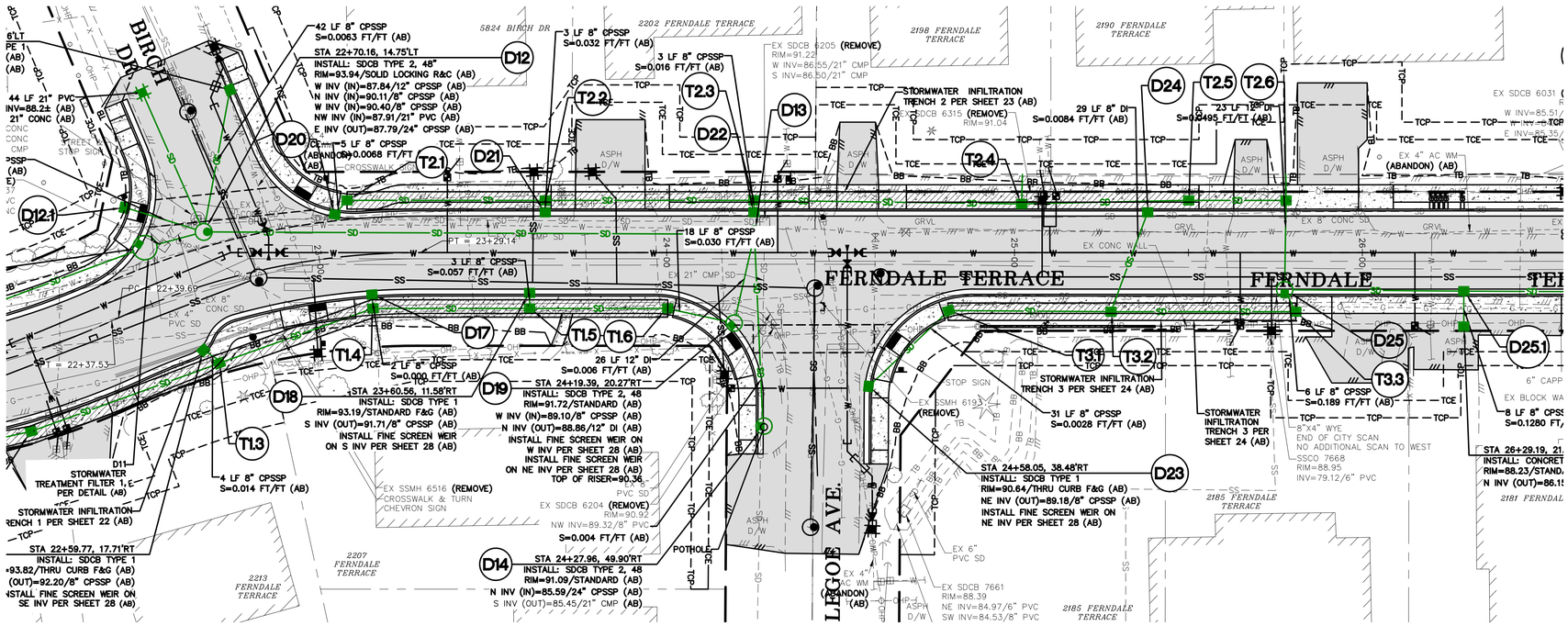


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TRENCH DETAILS
SEE SHEET 28

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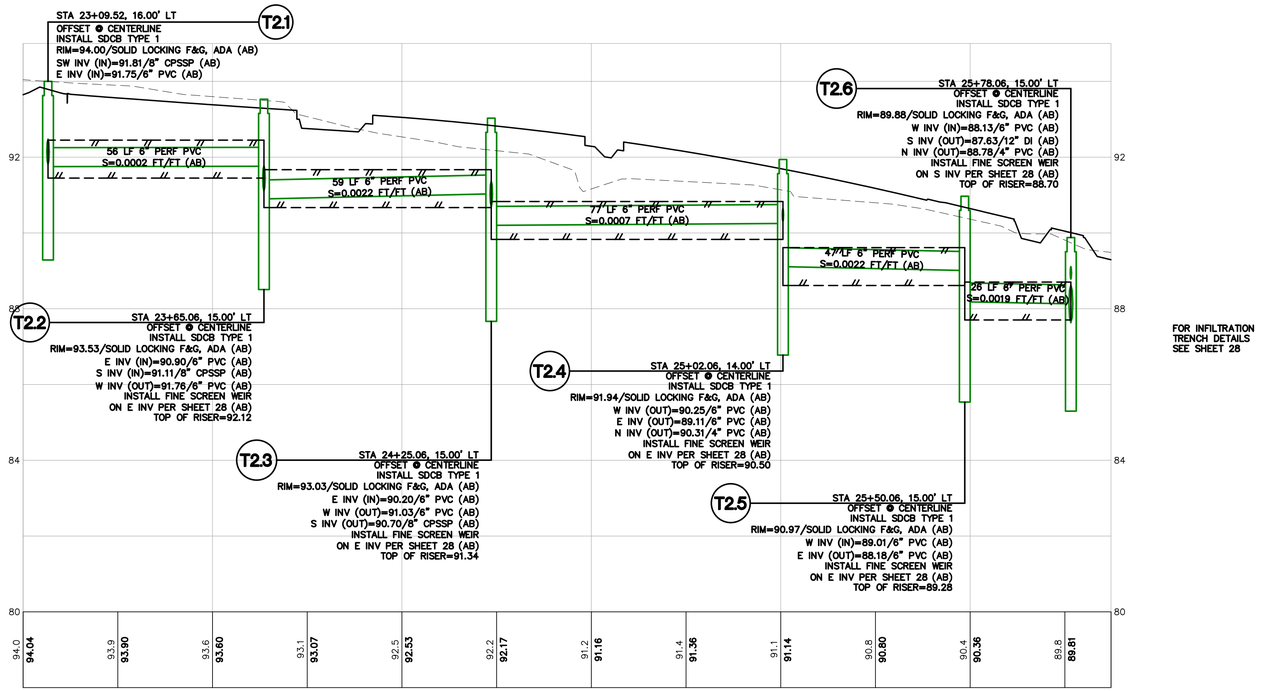
8/25/26 AS-BUILT	DESIGNED BY GS/LMH DRAWN BY GS/LMH CHECKED BY LP	R&E Reichhardt & Ebe ENGINEERING INC P.O. Box 978 | 423 Front Street Lynden, WA 98264 (360) 354-3687	NO.	DATE	DESCRIPTION	BY	CITY OF FERNDALE 2095 MAIN ST FERNDALE, WA 98248	FERNDALE TERRACE PROJECT HENDRICKSON AVENUE TO VISTA DRIVE TRENCH 1 PROFILE	DWG 18023 PLANS JOB# 18023 SCALE H: 1" = 20' V: 1" = 2'	DATE 8/27/2026 SHEET 22 of 85



GRAPHIC SCALE

20 0 10 20

(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)



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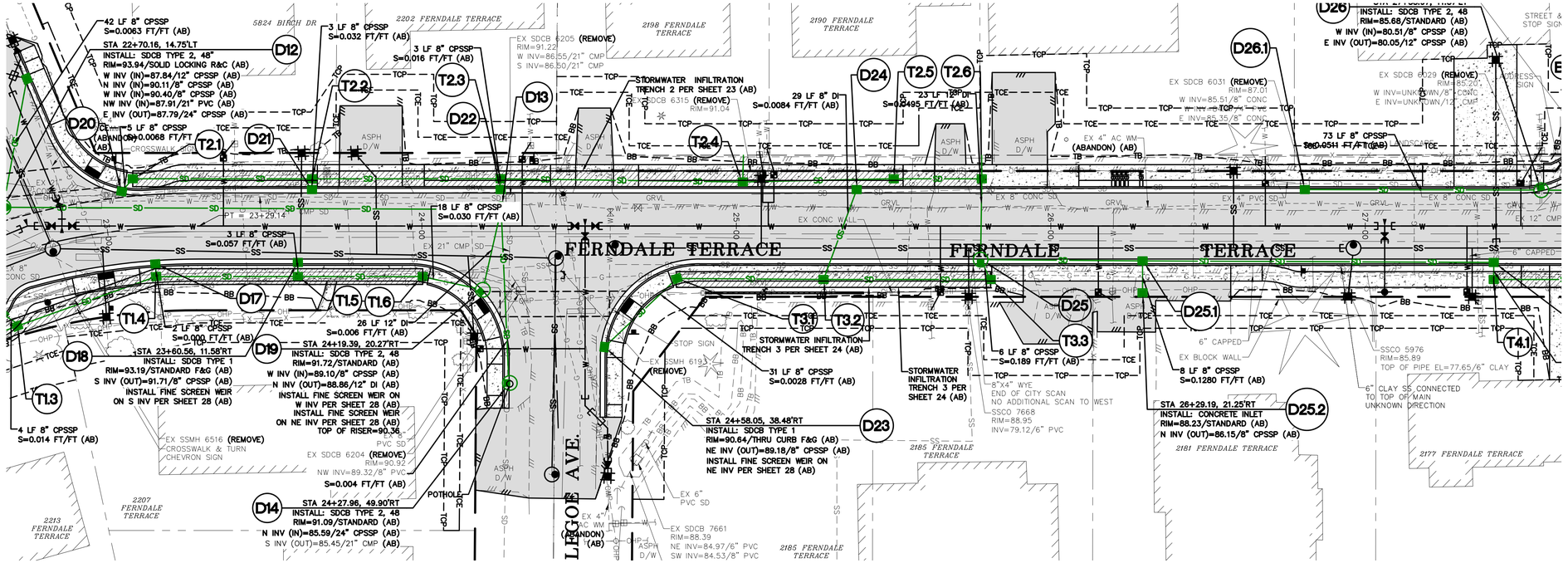
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TRENCH 2 PROFILE

DWG 18023 PLANS			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: 1" = 2'		SHEET 23 of 85

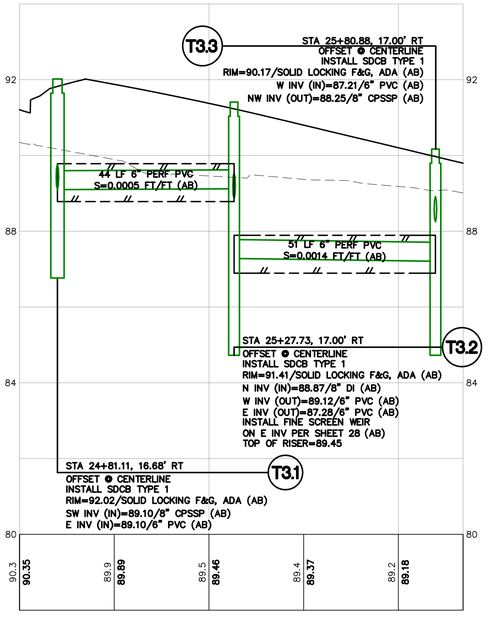
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GRAPHIC SCALE

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(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)



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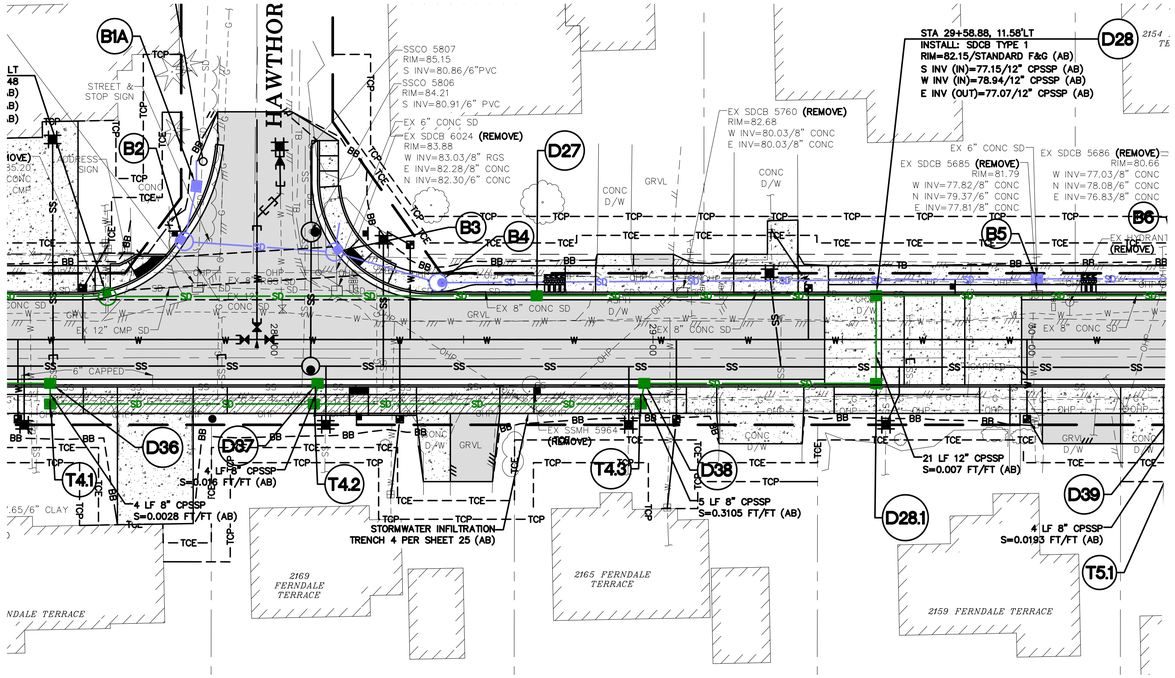
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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TRENCH 3 PROFILE

DWG 18023 PLANS
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 24 of 85

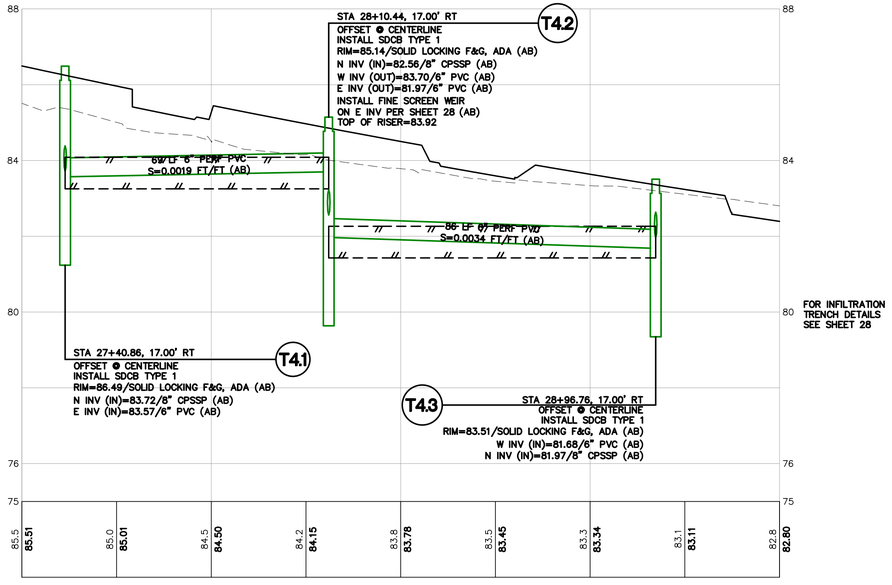
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GRAPHIC SCALE

20 0 10 20

(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)



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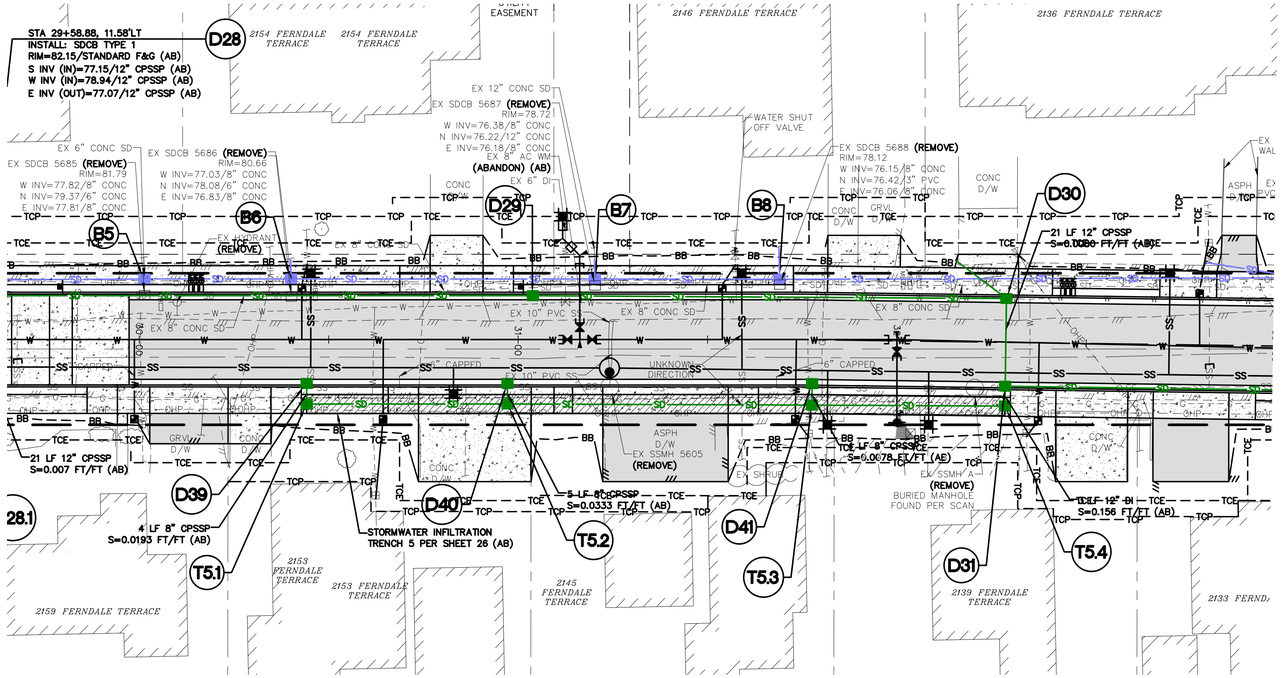
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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TRENCH 4 PROFILE

DWG 18023 PLANS
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 25 of 85

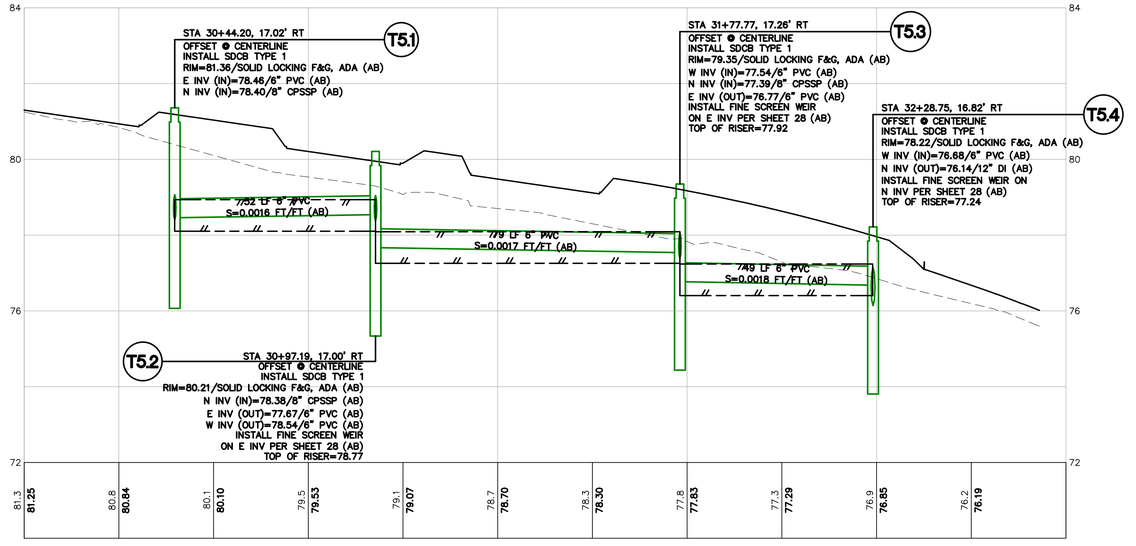
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GRAPHIC SCALE

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(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)



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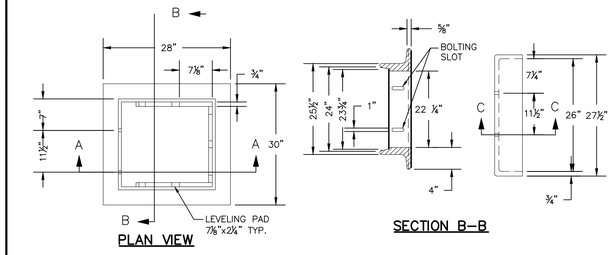
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TRENCH 5 PROFILE

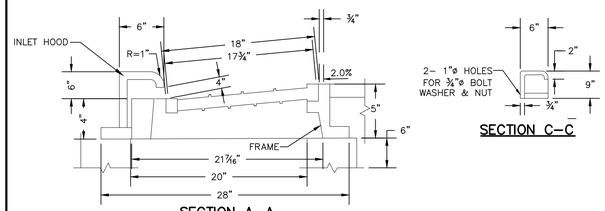
DWG 18023 PLANS
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 26 of 85

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PLAN VIEW

SECTION B–B

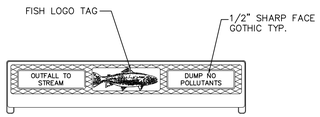


SECTION A–A

SECTION C–C

NOTES:

1. ESTIMATED WT. FRAME 220, HOOD 71.
2. USE DUCTILE IRON GRATE AS SHOWN ON DRAWING



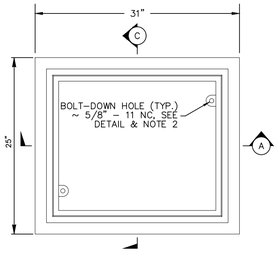
PLAN VIEW

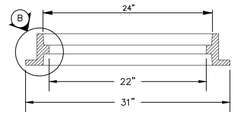
THRU CURB FRAME

NTS

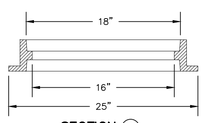
NOTES:

1. ALL GRATES SHALL BE BOLT DOWN. PROVIDE TWO HOLES IN THE FRAME THAT ARE VERTICALLY ALIGNED WITH THE GRATE OR COVER SLOTS. TAP EACH HOLE TO ACCEPT A 5/8"x –11NCx2" ALLEN HEAD CAP SCREW. LOCATION OF BOLT DOWN HOLES VARIES AMONG DIFFERENT MANUFACTURERS.

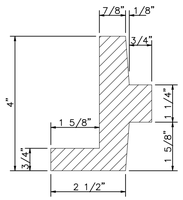




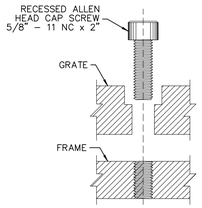
SECTION (A)



SECTION (C)



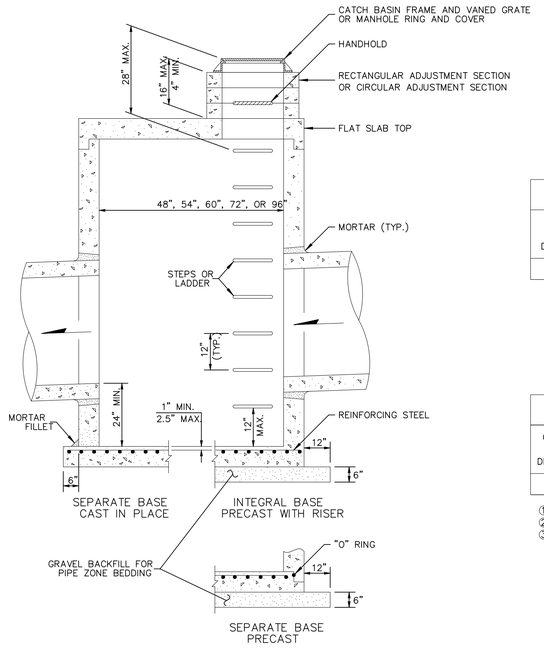
DETAIL (B)



BOLT DOWN DETAIL

STANDARD FRAME

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. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO 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 STD. SPEC. 9–04.3.

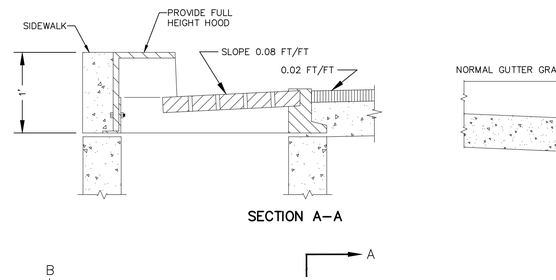
CATCH BASIN DIMENSIONS						
CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS	BASE REINFORCING STEEL IN ^{2}/FT IN EACH DIRECTION	
					INTEGRAL	SEPARATE
48"	4"	6"	36"	8"	0.15	0.23

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"

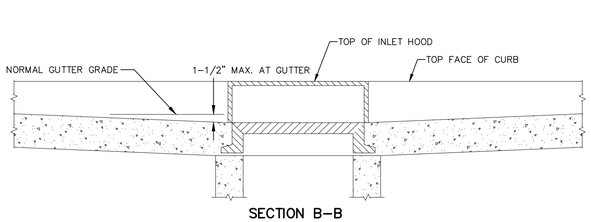
① CORRUGATED POLYETHYLENE STORM SEWER PIPE (STD. SPEC. 9–05.20)
② (STD. SPEC. 9–05.12(1))
③ (STD. SPEC. 9–05.12(2))

STORM DRAIN CATCH BASIN, TYPE 2

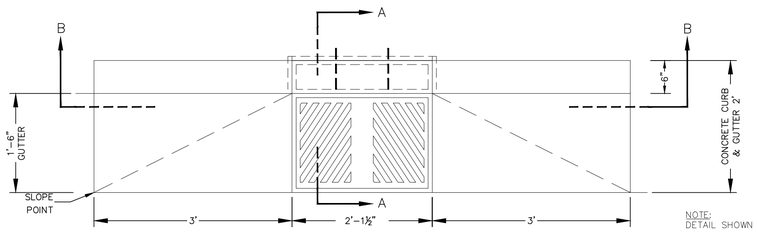
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SECTION A–A



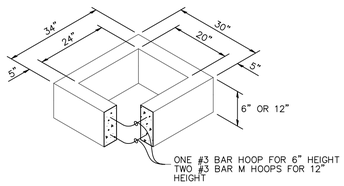
SECTION B–B



NOTE:
DETAIL SHOWN FOR THRU CURB FRAME AND GRATE.

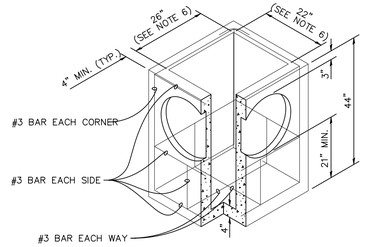
CURB AND GUTTER AT CATCH BASIN

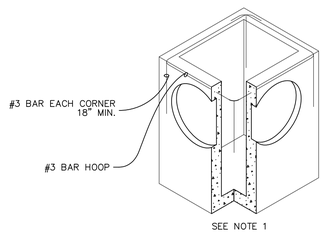
NTS



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.





SEE NOTE 1

CATCH BASIN TYPE 1

NTS



SUBMITTED WITH DESIGN PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
GS/LMH	GS/LMH	LP

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Lynden, WA 98264 (360) 354-3687

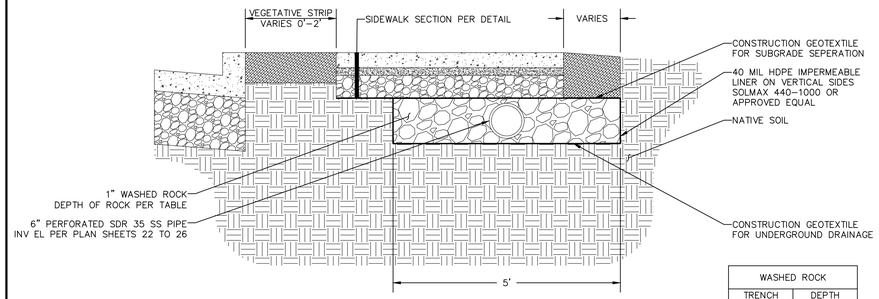
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM DETAILS (1)

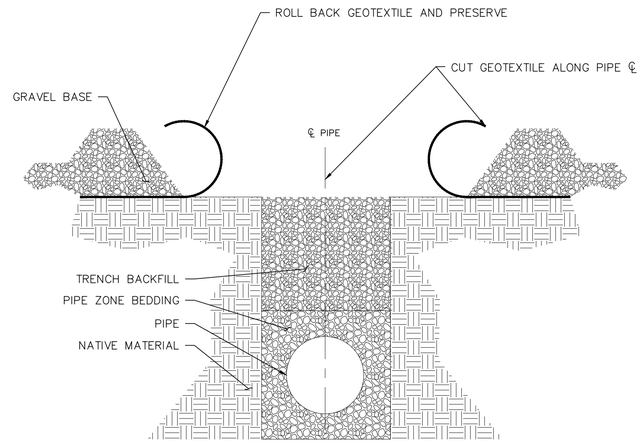
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DATE 8/27/2026
JOB# 18023
SCALE H: N/A V: N/A
SHEET 27 of 85

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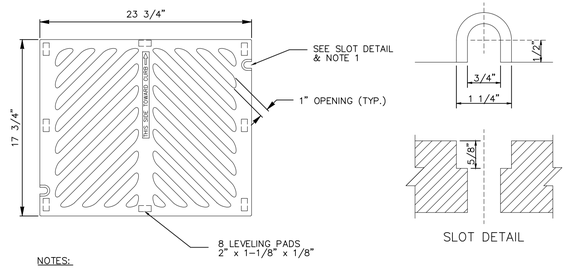


WASHED ROCK	
TRENCH	DEPTH
1	12"
2	12"
3	12"
4	10"
5	10"

INFILTRATION TRENCH
NTS



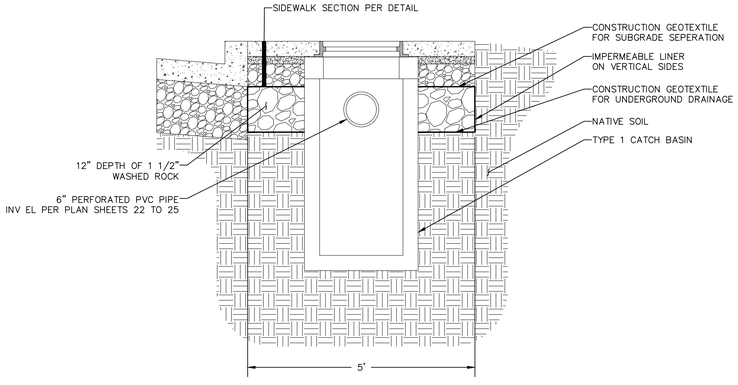
PIPE INSTALLATION BELOW GEOTEXTILE
NTS



NOTES:

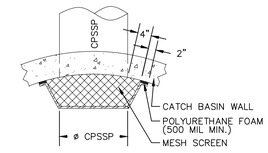
1. ALL GRATES SHALL BE BOLT DOWN. PROVIDE TWO SLOTS IN THE GRATE THAT ARE VERTICALLY ALIGNED WITH THE HOLES IN THE FRAME. LOCATION OF BOLT DOWN SLOTS VARIES AMONG DIFFERENT MANUFACTURERS.
2. THE THICKNESS OF THE GRATE SHALL NOT EXCEED 1-5/8".

HERRINGBONE GRATE
NTS

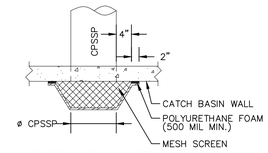


INFILTRATION TRENCH AT CATCH BASIN
NTS

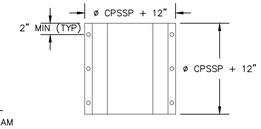
BOTTOM OF WEIR CONDITION	
WIRE MESH	SOLID PLATE
D15	T1.4
D16	T1.5
D17	T2.2
D18	T2.3
D19 W INV	T2.4
D20	T2.5
D21	T2.6
D22	T3.2
D23	T4.2
D24	T5.2
D25 SE INV	T5.3
D36	T5.4
D37	D19 NE INV
D38 S INV	D25 E INV
D39	D38 E INV
D40	
D41	



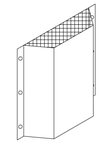
TYPE 2 PLAN VIEW



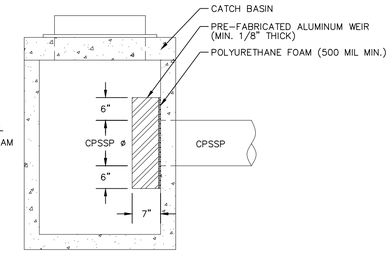
TYPE 1 PLAN VIEW



FRONT ELEVATION



ISOMETRIC VIEW



CATCH BASIN SECTION VIEW

NOTES:

1. MESH SCREEN SHALL BE STAINLESS STEEL 18 GAUGE WIRE W/ 1/2" OPENINGS, SPOT WELDED TO THE TOP OF WEIR.
   1.1. BOTTOM OF WEIR SHALL BE EITHER MESH SCREEN AS DESCRIBED ABOVE OR SOLID STAINLESS STEEL 18 GAUGE PLATE WELDED TO THE BOTTOM OF WEIR. SEE TABLE FOR WHERE MESH SCREEN OR SOLID PLATE SHOULD BE APPLIED.
2. MOUNT WEIR TO CATCH BASIN USING STAINLESS STEEL LAG BOLTS.

FINE SCREEN WEIR
NTS

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
DRAWN BY GS/LMH
CHECKED BY LP

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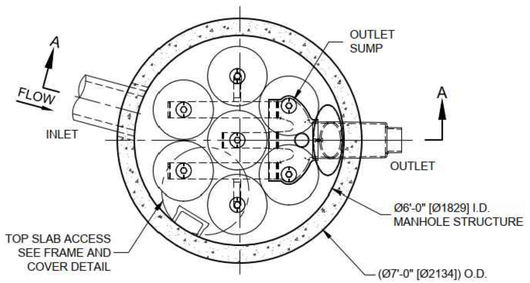
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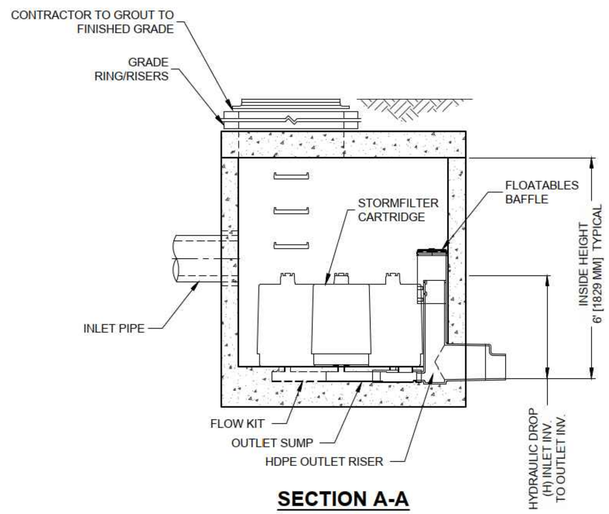
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM DETAILS (2)

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JOB# 18023
SCALE H: N/A V: N/A
DATE 8/27/2026
SHEET 28 of 85

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PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 42A



SECTION A-A

The Stormwater Management StormFilter®

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,524,576; 5,707,527; 5,985,157; 6,027,639; 6,649,048; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

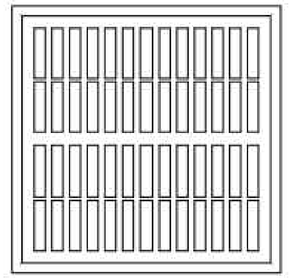
STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (7). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 7 CARTRIDGES. Ø6'-0" [1829 mm] MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.5 CFS [42.5 L/s] . IF THE SITE CONDITIONS EXCEED 1.5 CFS [42.5 L/s] AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27" [686 mm]			18" [458 mm]			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05' [930 mm]			2.3' [700 mm]			1.8' [550 mm]		
SPECIFIC FLOW RATE (gpm/sf) [L/s/m²]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.5 [1.42]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.47]	10 [0.63]	8.35 [0.54]	5 [0.32]

* 1.67 gpm/sf [1.08 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY



30" [762] SQ. FRAME AND GRATE
(ALSO AVAILABLE IN ROUND)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID		D11
WATER QUALITY FLOW RATE (cfs)		0.1156
PEAK FLOW RATE (cfs)		1.263372
RETURN PERIOD OF PEAK FLOW (yrs)		100
# OF CARTRIDGES REQUIRED		5
CARTRIDGE FLOW RATE		11.25
MEDIA TYPE (CSF, PERLITE, ZPG, GAC PHS)		ZPG
PIPE DATA:	I.E.	DIAMETER
INLET #1	91.18	12"
INLET #2		
OUTLET PIPE	87.99	12"
RIM ELEVATION		93.28
	WIDTH	HEIGHT
ANTI-FLOTATION BALLAST		

NOTES/SPECIAL REQUIREMENTS:

*PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' [1524 mm] AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178 mm]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) [L/s] DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft)[m²].
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
E. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES [200 mm], CONTRACTOR TO REMOVE THE 8 INCH [200 mm] OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

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SFMH72
STORMFILTER
STANDARD DETAIL

STRUCTURE D11
STORMWATER TREATMENT FILTER 1

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER — 8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
DRAWN BY GS/LMH
CHECKED BY LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

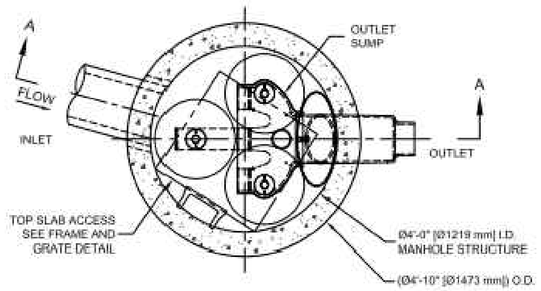
NO.	DATE	DESCRIPTION	BY

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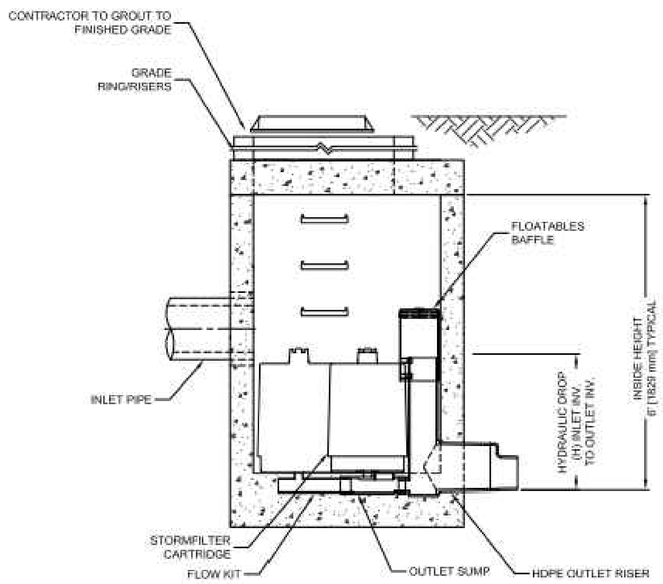
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
STORM DETAILS (3)

DWG 18023 DETAILS
JOB# 18023
SCALE H: N/A V: N/A
DATE 8/27/2026
SHEET 29 of 85

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PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 40A



SECTION A-A

The Stormwater Management StormFilter®

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,630; 5,324,426; 5,707,527; 5,985,151; 6,027,639; 6,649,048; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

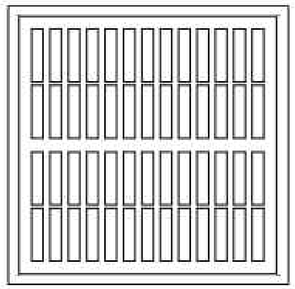
STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (3). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 3 CARTRIDGES. Ø4 [1219 mm] MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 CFS [28.3 L/s]. IF THE SITE CONDITIONS EXCEED 1.0 CFS [28.3 L/s] AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27" [686 mm]			18" [458 mm]			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05' [930 mm]			2.3' [700 mm]			1.8' [550 mm]		
SPECIFIC FLOW RATE (gpm/sf) [L/s/m²]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.5 [1.42]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.47]	10 [0.63]	8.35 [0.54]	5 [0.32]

* 1.67 gpm/sf [1.08 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY



30" [762] SQ. FRAME AND GRATE
(ALSO AVAILABLE IN ROUND)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID		D33
WATER QUALITY FLOW RATE (cfs)		0.0657
PEAK FLOW RATE (cfs)		0.78786
RETURN PERIOD OF PEAK FLOW (yrs)		100
CARTRIDGE HEIGHT (SEE TABLE ABOVE)		
# OF CARTRIDGES REQUIRED		3
CARTRIDGE FLOW RATE		11.25
MEDIA TYPE (PERLITE, ZPG, PSORB)		ZPG
PIPE DATA:	I.E.	DIAMETER
INLET #1	59.58	12"
INLET #2	60.30	4"
OUTLET PIPE	56.95	12"
RIM ELEVATION		62.58
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT

NOTES/SPECIAL REQUIREMENTS:

*PER ENGINEER OF RECORD

GENERAL NOTES
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2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' [1524 mm] AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178 mm]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) (L/s) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft)[m²].
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
E. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES [200 mm], CONTRACTOR TO REMOVE THE 8 INCH [200 mm] OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

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SFMH48
STORMFILTER
STANDARD DETAIL

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STRUCTURE D33
STORMWATER TREATMENT FILTER 2

LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
GS/LMH	GS/LMH	LP

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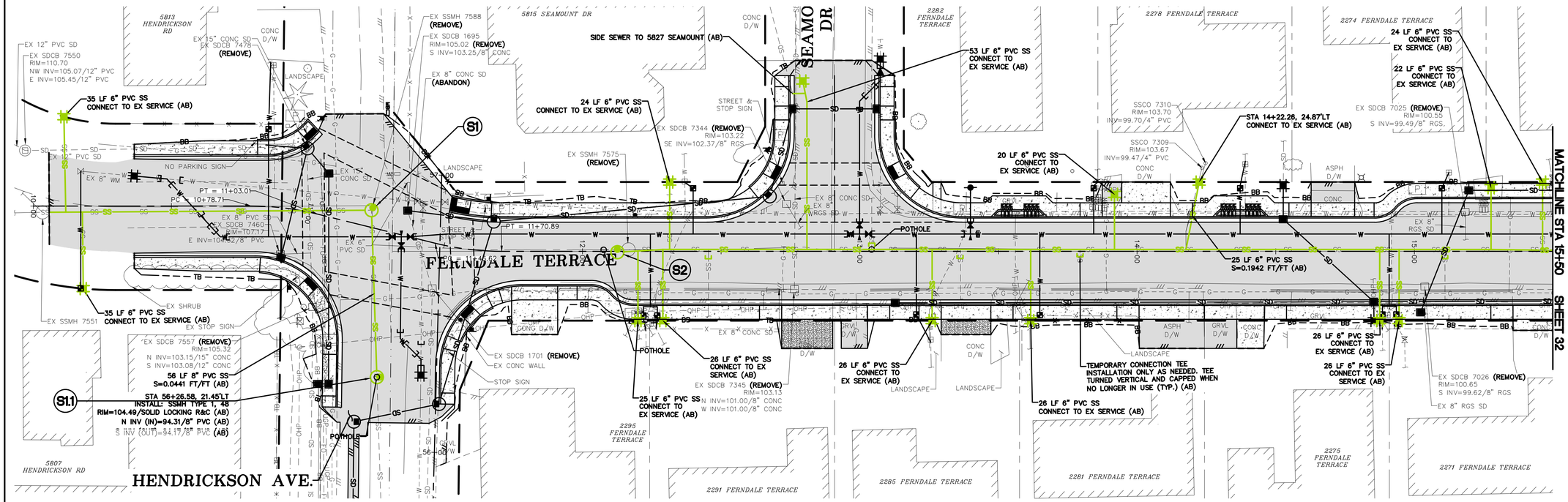
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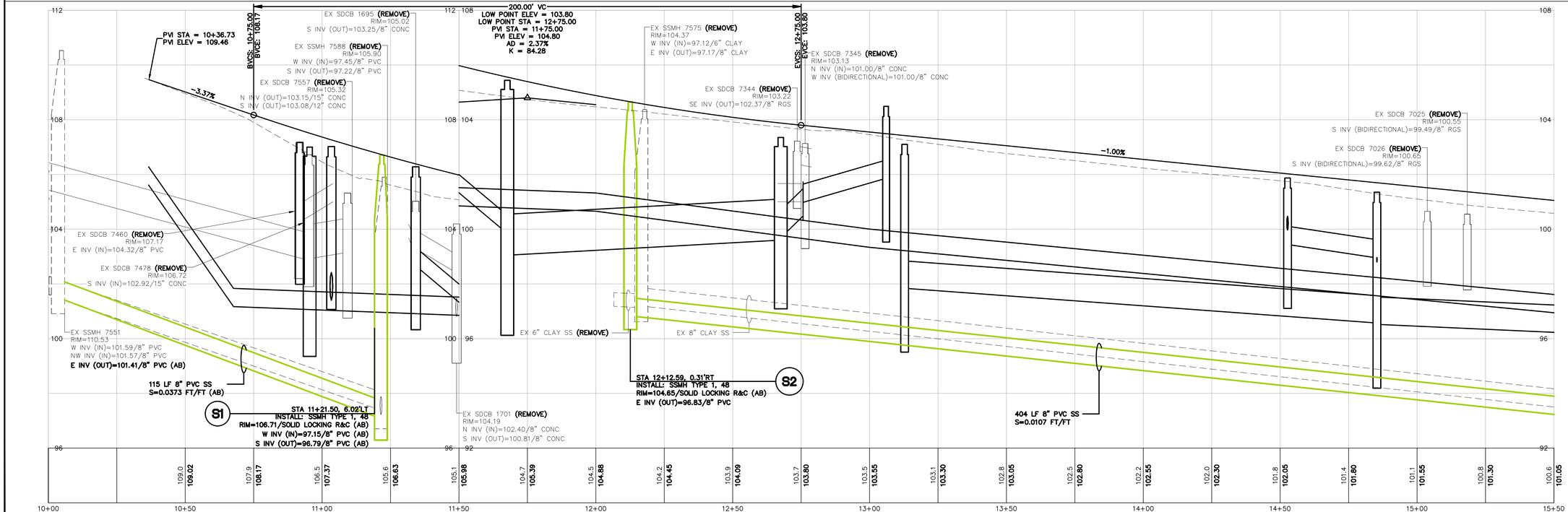
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SHEET 30 of 85

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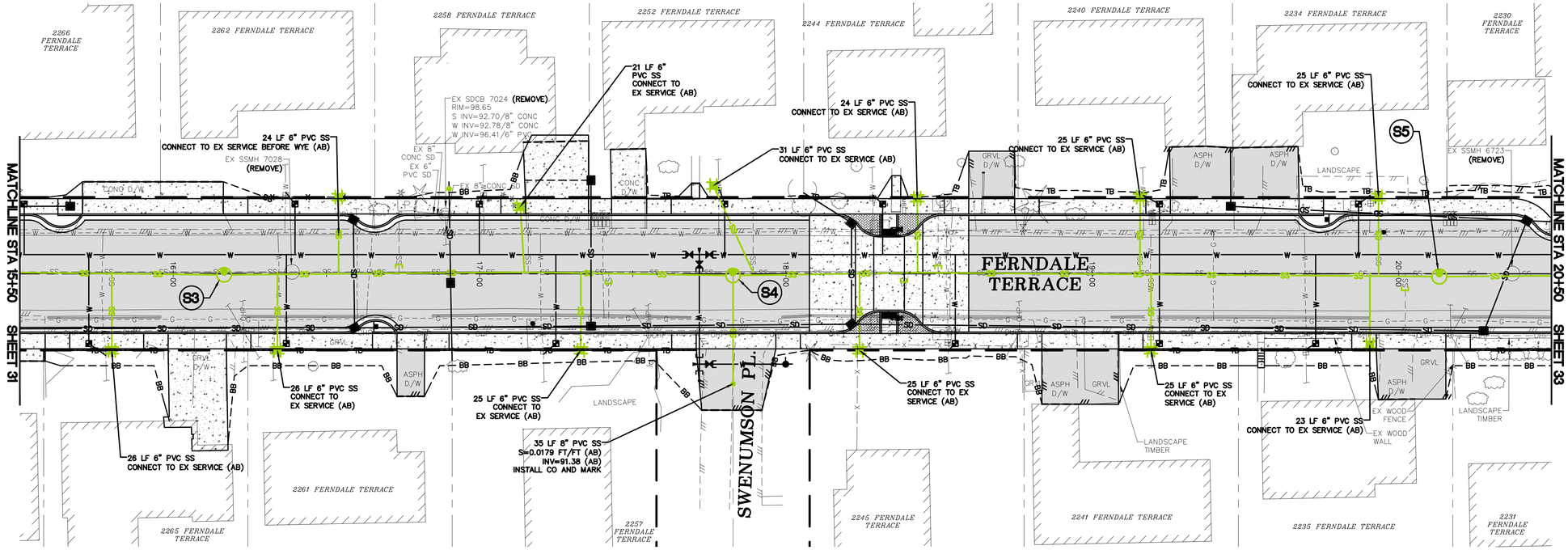


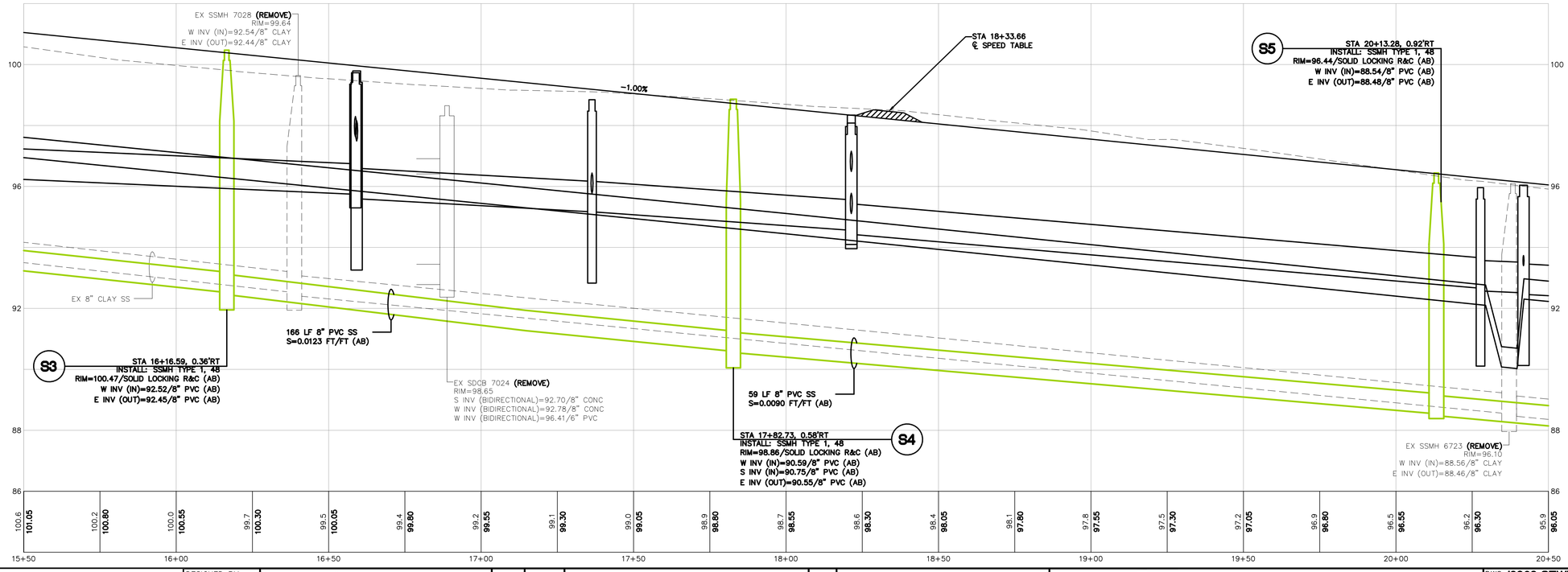


8/25/26	AS-BUILT	DESIGNED BY GS/LMH DRAWN BY GS/LMH CHECKED BY LP	R&E Reichhardt & Ebe ENGINEERING INC P.O. Box 978 | 423 Front Street Lynden, WA 98264 (360) 354-3687	NO.	DATE	DESCRIPTION	BY	CITY OF FERNDALE 2095 MAIN ST FERNDALE, WA 98248	FERNDALE TERRACE PROJECT HENDRICKSON AVENUE TO VISTA DRIVE SANITARY SEWER PLAN - STA 10+00 TO 15+50	DWG 18023 SEWER JOB# 18023 SCALE H: 1" = 20' V: 1" = 2' DATE 8/27/2026 SHEET 31 of 85

LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER

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GRAPHIC SCALE

20 0 10 20

(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)

⌊ = TEMPORARY CONNECTION TEE INSTALLATION ONLY AS NEEDED. TEE TURNED VERTICAL AND CAPPED WHEN NO LONGER IN USE (TYP) **(AB)**

NOTE:
1. CONTRACTOR TO POTHOLE AT EACH SPECIFIED LOCATION FIVE (5) WORKING DAYS PRIOR TO PLANNED INSTALLATION TO VERIFY LAYOUT, PIPE LOCATION, DEPTH, SIZE, MATERIAL, AND ALL OTHER ITEMS NEEDED FOR THE CONNECTION.
2. CONTRACTOR TO LOCATE AND CONNECT ALL SANITARY SERVICES TO PROPERTIES WITHIN THE PROJECT LIMITS.

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER — 8/27/26

8/25/26 AS-BUILT

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

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Lynden, WA 98264 (360) 354-3687

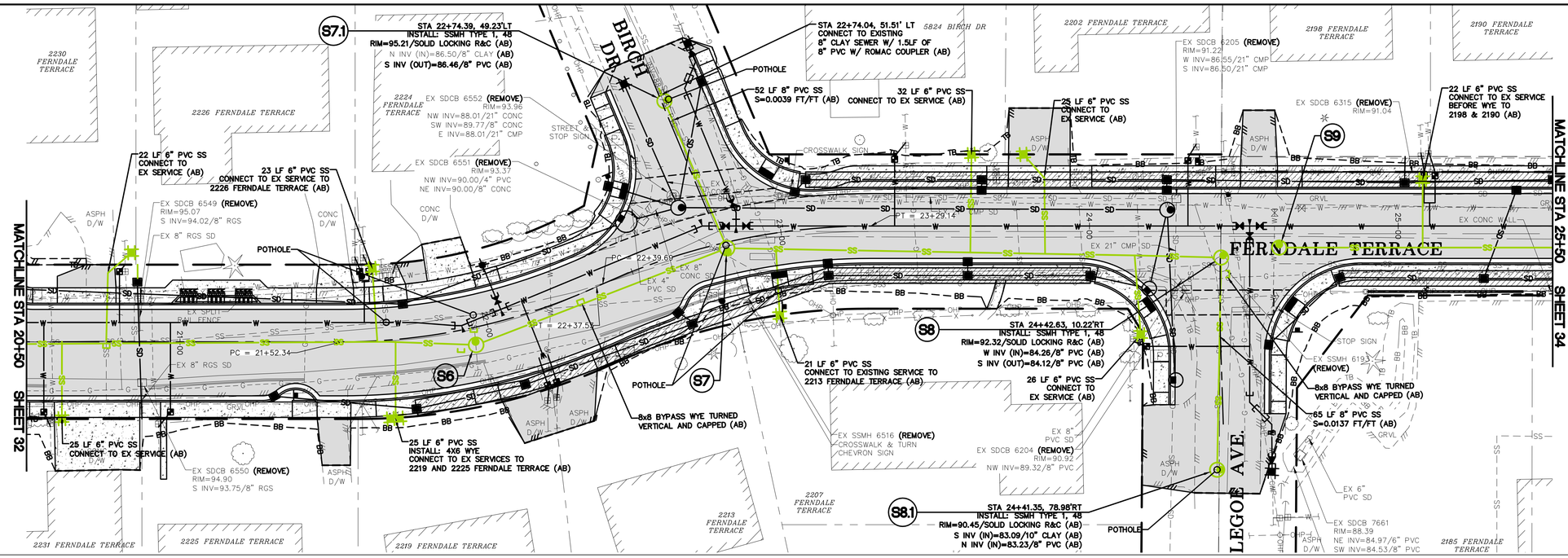
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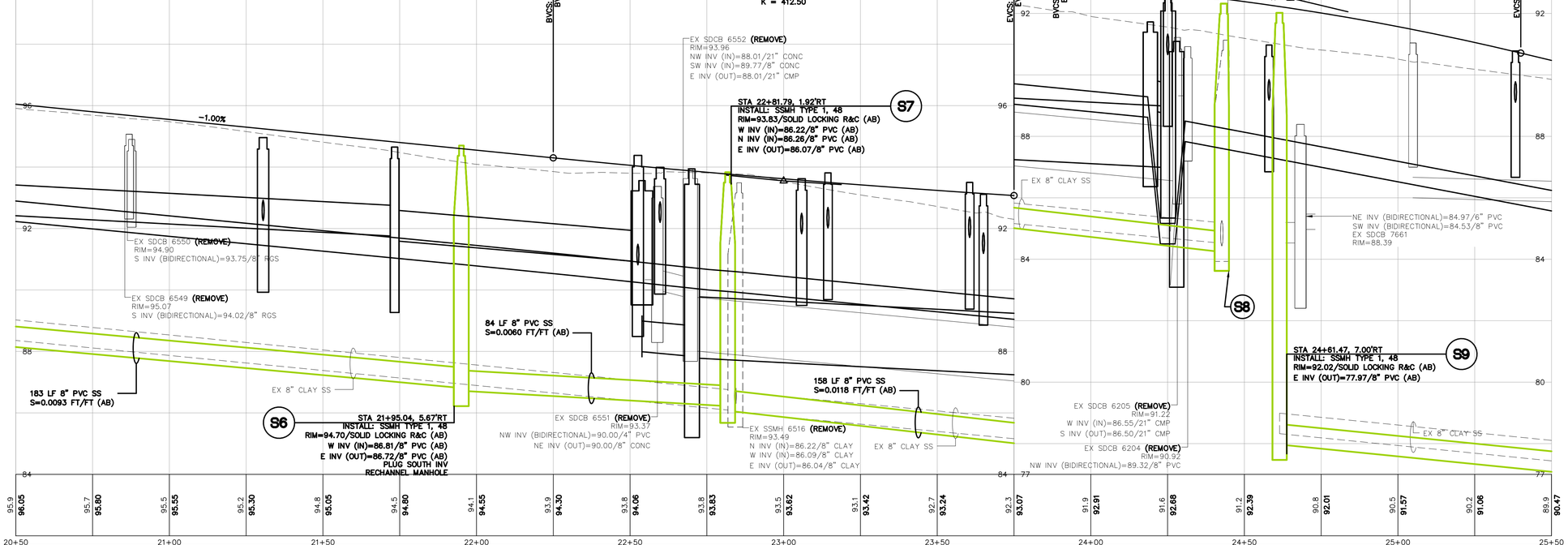
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
SANITARY SEWER PLAN - STA 15+50 TO 20+50

DWG 18023 SEWER			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: 1" = 2'		SHEET 32 of 85

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LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

8/25/26 AS-BUILT

DESIGNED BY GS/LMH
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CHECKED BY LP

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Lynden, WA 98264 (360) 354-3687

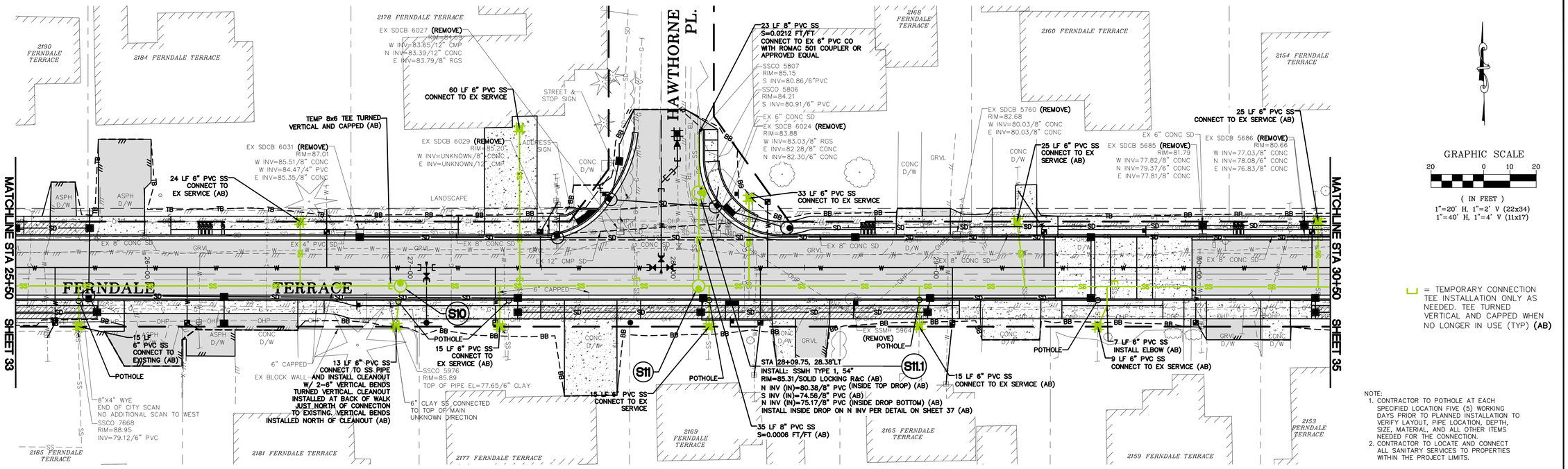
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
SANITARY SEWER PLAN - STA 20+50 TO 25+50

DWG 18023 SEWER
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 33 of 85


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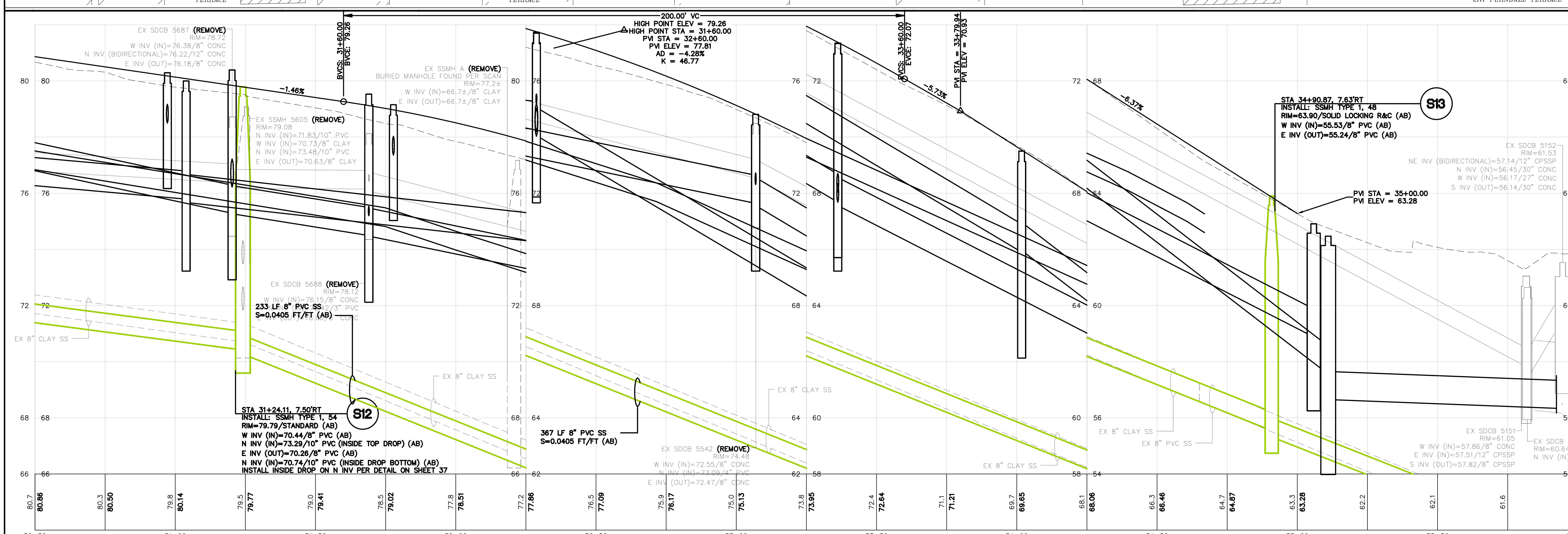


8/25/26	AS-BUILT	DESIGNED BY GS/LMH DRAWN BY GS/LMH CHECKED BY LP	R&E Reichhardt & Ebe ENGINEERING INC P.O. Box 978 | 423 Front Street Lynden, WA 98264 (360) 354-3687	NO.	DATE	DESCRIPTION	BY	CITY OF FERNDALE 2095 MAIN ST FERNDALE, WA 98248	FERNDALE TERRACE PROJECT HENDRICKSON AVENUE TO VISTA DRIVE SANITARY SEWER PLAN - STA 25+50 TO 30+50	DWG 18023 SEWER JOB# 18023 SCALE H: 1" = 20' V: 1" = 2' DATE 8/27/2026 SHEET 34 of 85

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER — 8/27/26

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NOTE:
1. CONTRACTOR TO POTHOLE AT EACH SPECIFIED LOCATION FIVE (5) WORKING DAYS PRIOR TO PLANNED INSTALLATION TO VERIFY LAYOUT, PIPE LOCATION, DEPTH, SIZE, MATERIAL, AND ALL OTHER ITEMS NEEDED FOR THE CONNECTION.
2. CONTRACTOR TO LOCATE AND CONNECT ALL SANITARY SERVICES TO PROPERTIES WITHIN THE PROJECT LIMITS.

= TEMPORARY CONNECTION TEE INSTALLATION ONLY AS NEEDED. TEE TURNED VERTICAL AND CAPPED WHEN NO LONGER IN USE (TYP) (AB)

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

8/25/26 AS-BUILT

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DRAWN BY	GS/LMH
CHECKED BY	LP

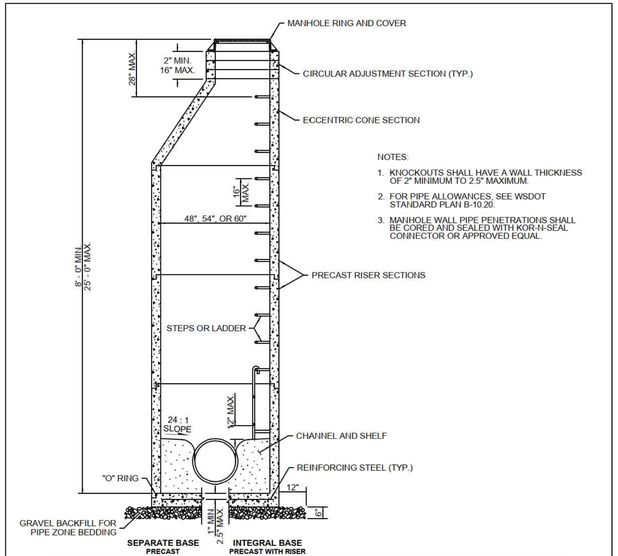
R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
SANITARY SEWER PLAN - STA 30+50 TO 36+50

DWG 18023 SEWER
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
DATE 8/27/2026
SHEET 35 of 85



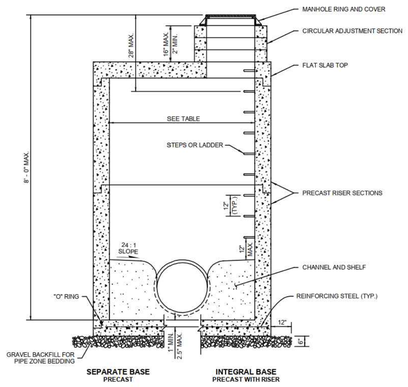
MANHOLE DIMENSION TABLE						
DIAM.	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS	BASE REINFORCING STEEL SQ IN/FT EACH DIRECTION	
					INTEGRAL BASE	SEPARATE BASE
48"	4"	6"	36"	8"	0.15	0.23
54"	4.5"	8"	42"	8"	0.19	0.19
60"	5"	8"	48"	8"	0.25	0.25

AUGUST 1, 2017

APPROVED

Public Works Director — 8/11/17 Date

SANITARY SEWER MANHOLE TYPE 1
STANDARD DETAIL SS-3
NOT TO SCALE



NOTES:
1. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum.
2. For pipe allowances, see **WSDOT Standard Plan B-10.20.**
3. No steps are required when height is 4' or less.
4. Manhole wall pipe penetrations shall be cored and sealed with Kor-N-Seal connector or approved equal.

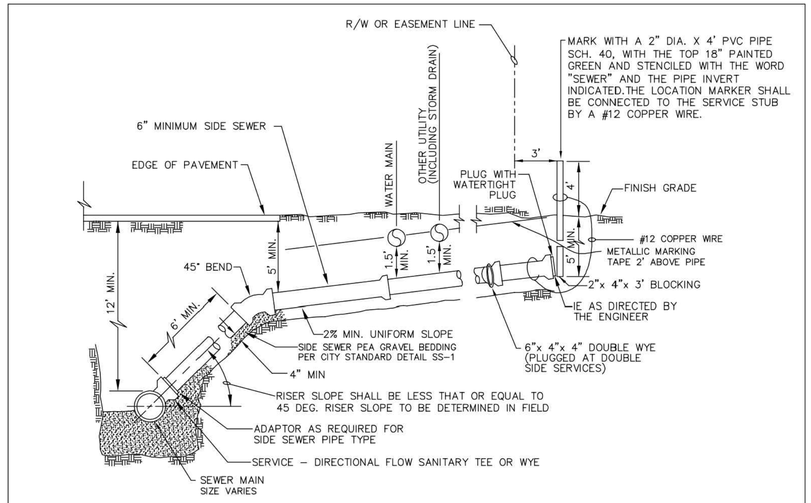
MANHOLE DIMENSION TABLE				
DIAM.	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	42"	12"
144"	12"	12"	108"	12"

AUGUST 4, 2017

APPROVED

Public Works Director — 8/11/17 Date

SANITARY SEWER MANHOLE TYPE 3
STANDARD DETAIL SS-4
NOT TO SCALE

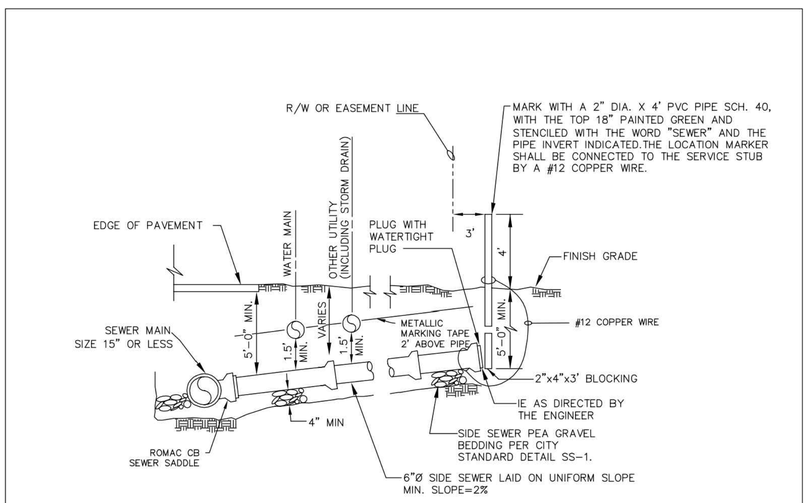


APRIL 18, 2017

APPROVED

Public Works Director — 8/11/17 Date

SANITARY SEWER SERVICE DEEP MAIN CONNECTION
STANDARD DETAIL SS-8
NOT TO SCALE



NOVEMBER 25, 2016

APPROVED

Public Works Director — 8/11/17 Date

SANITARY SEWER SERVICE CONNECTION 15" OR LESS
STANDARD DETAIL SS-6
NOT TO SCALE

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
DRAWN BY GS/LMH
CHECKED BY LP

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Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

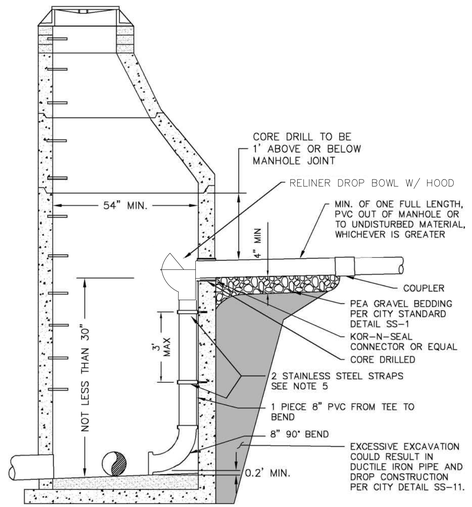
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
SEWER DETAILS (1)

DWG 18023 DETAILS
DATE 8/27/2026
JOB# 18023
SCALE H: N/A V: N/A
SHEET 36 of 85

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER — 8/27/26

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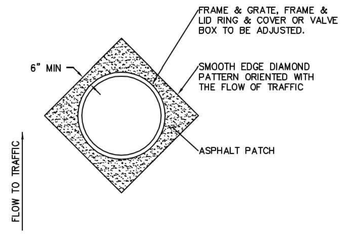


NOTES:
1. DROP TEE TO BE INSTALLED MINIMUM OF 3' BELOW CONE SECTION.
2. INSIDE DROP MANHOLE SHALL BE INSTALLED ONLY WHERE APPROVED BY THE PUBLIC WORKS DIRECTOR.
3. SIZE OF MANHOLE WILL INCREASE WITH LARGER DIAMETER PIPE AND SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR.
4. CHANNEL TO OUTLET.
5. STAINLESS ADJUSTABLE PIPE BRACKETS AS MANUFACTURED BY RELINER-DURAN INC. OR APPROVED EQUAL. ATTACH TO WALL WITH ⅜" SS ANCHOR BOLTS.
6. INSIDE DROP SEWER MANHOLE CONNECTION FOR EXISTING SANITARY MANHOLE STRUCTURES.

MODIFIED APRIL 25, 2018

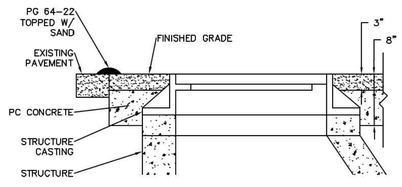
APPROVED ~~4/25/18~~
Public Works Director — Date

INSIDE DROP SEWER MANHOLE CONNECTION
STANDARD DETAIL SS-13
NOT TO SCALE



NOTES:
ALL FRAMES, COVERS & VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER THE FINAL LIFT OF PAVING HAS BEEN COMPLETED. THE FOLLOWING PROCEDURE SHALL BE USED:

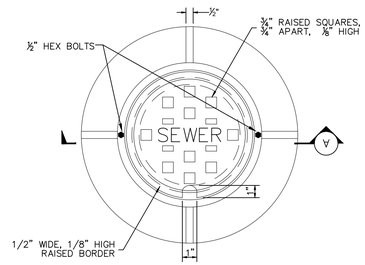
1. CUT THE ASPHALT IN A DIAMOND AROUND THE STRUCTURE CASTING TO BE ADJUSTED.
2. REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
3. PLACE THE CASTING AT FINISH GRADE.
4. PLACE PORTLAND CEMENT CONCRETE TO WITHIN THE TOP 3 INCHES OF FINISH GRADE.
5. APPLY TACK TO THE STRUCTURE CASTING, CUT PAVEMENT, & PC CONCRETE.
6. PLACE & COMPACT 3 INCHES OF HMA TO FINISH GRADE.
7. SEAL PAVEMENT JOINTS W/ HOT PG 64-22 & TOP W/ SAND.



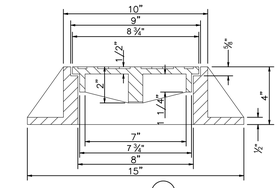
AUGUST 1, 2017

APPROVED 8/11/17
Public Works Director — Date

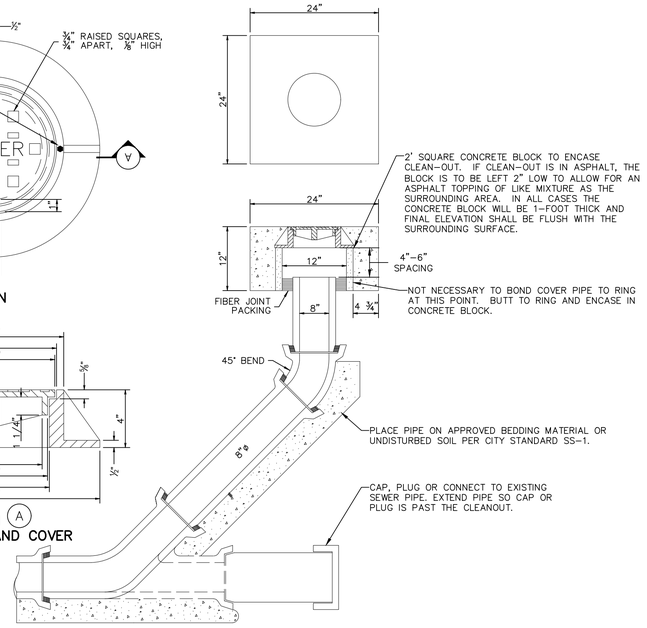
ADJUSTING CASINGS TO FINISHED GRADE
STANDARD DETAIL SS-19
NOT TO SCALE



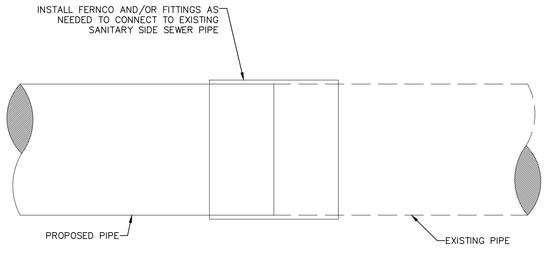
PLAN



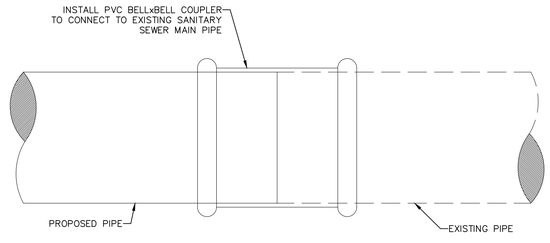
SECTION (A)
CAST IRON RING AND COVER



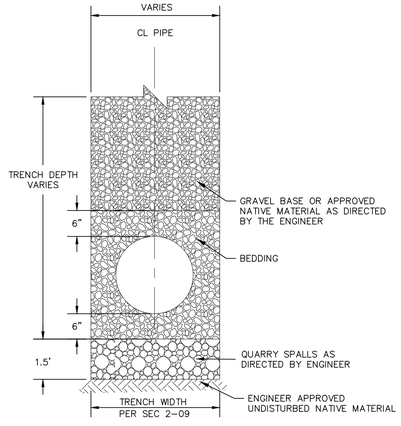
SANITARY SEWER 8" CLEAN OUT
NTS



CONNECT TO EXISTING SIDE SEWER PIPE DETAIL
NTS



CONNECT TO EXISTING SEWER MAIN PIPE DETAIL
NTS



UNSUITABLE SOILS TRENCH DETAIL
NTS

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
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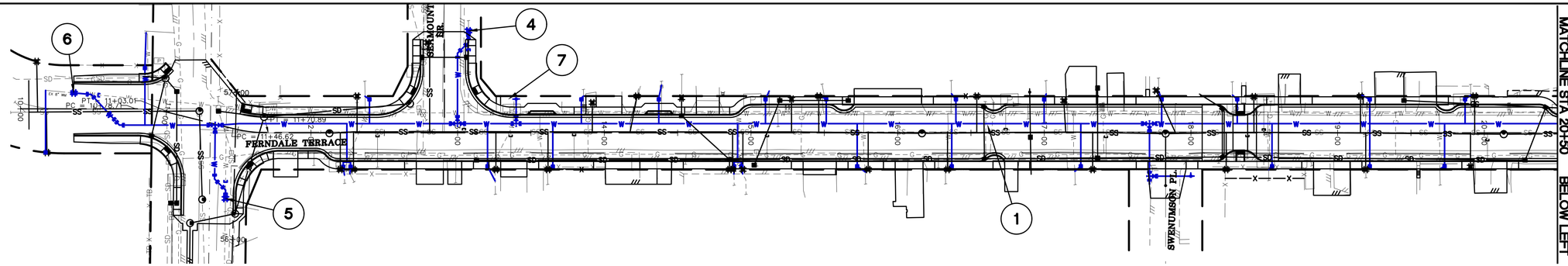
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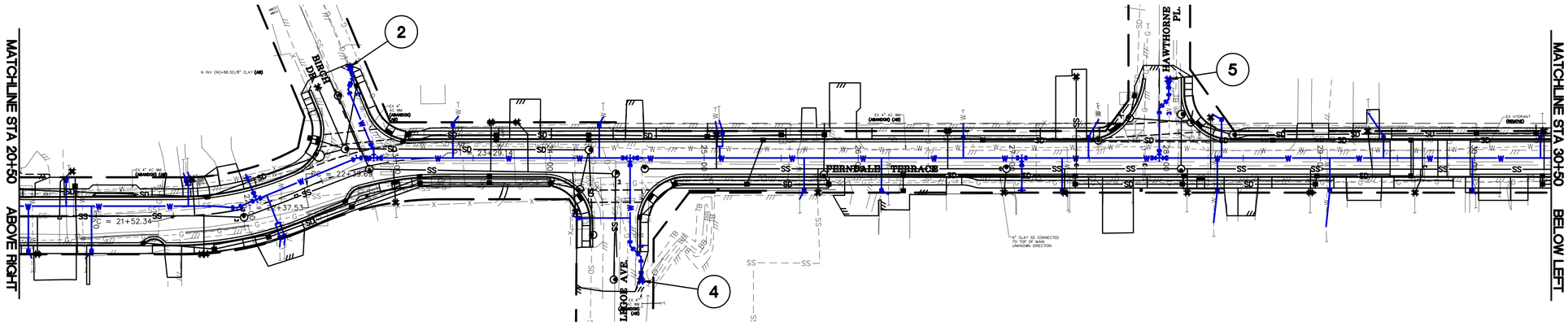
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

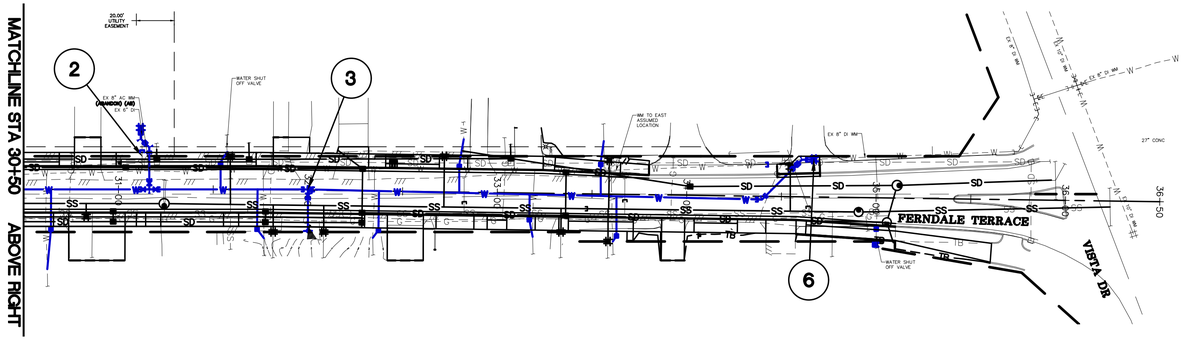
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
SEWER DETAILS (2)

DWG 18023 DETAILS			DATE 8/27/2026
JOB# 18023	SCALE H: N/A	V: N/A	SHEET 37 of 85

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GRAPHIC SCALE

40 0 20 40

(IN FEET)
1"=40' (22x34), 1"=80' (11x17)

ORDER OF WORK:

NOTES:
1. CONTRACTOR SHALL COMPLETE ALL WATER CONNECTIONS WITHIN TEN (10) CONSECUTIVE WORKING DAYS. ORDER OF WORK (2),(3),(4),(5),(6), AND (7) SHALL EACH BE COMPLETED AS NOTED BELOW.

(1) INSTALL AND TEST THE NEW 8" WATER MAIN AND HYDRANTS FROM APPROXIMATELY STA 10+50 TO STA 34+60.

(2) CAP EXISTING AC AND DI WATER MAIN. CONNECT NEW 8" WATER MAIN TO EXISTING 4" WATER MAIN AT APPROXIMATELY STA 22+84.50, 59.12'LT AND 6" WATER MAIN AT APPROXIMATELY STA 31+12, 32'LT. DURING ORDER OF WORK 2, THE NEW 8" WATER MAIN AND THE EXISTING WATER MAIN WILL BE OPERATIONAL. THIS WORK SHALL BE COMPLETED WITHIN 1 – 12 HOUR WORKDAY.

(3) TRANSFER ALL SERVICES TO NEW 8" WATER MAIN. THIS WORK SHALL BE COMPLETED WITHIN FIVE (5) WORKING DAYS AND THE WORKING DAY SHOULD NOT EXCEED 12 CONSECUTIVE HOURS.

(4) CAP EXISTING AC WATER MAIN. AND CONNECT NEW 8" WATER MAIN TO EXISTING 4" WATER MAIN AT APPROXIMATELY STA 13+07.39, 58.89'LT AND AT APPROXIMATELY STA 24+59.09, 79.62'RT. THIS WORK SHALL BE COMPLETED WITHIN ONE (1) WORKING DAY. THE WORKING DAY SHALL NOT EXCEED 12 CONSECUTIVE HOURS.

(5) CAP EXISTING AC WATER MAIN. AND CONNECT NEW 8" WATER MAIN TO EXISTING 4" WATER MAIN AT APPROXIMATELY STA 11+50.81, 46.39'RT AND AT APPROXIMATELY STA 28+01.64, 38.35'LT. THIS WORK SHALL BE COMPLETED WITHIN ONE (1) WORKING DAY. THE WORKING DAY SHALL NOT EXCEED 12 CONSECUTIVE HOURS.

(6) CAP EXISTING AC WATER MAIN. AND CONNECT THE NEW 8" WATER MAIN TO EXISTING WATER MAIN AT APPROXIMATELY STA 10+36.62, 10.83'LT AND AT APPROXIMATELY STA 34+66.94, 19.89'LT. THIS WORK SHALL BE COMPLETED WITHIN ONE (1) WORKING DAY. THE WORKING DAY SHALL NOT EXCEED 12 CONSECUTIVE HOURS.

(7) INSTALL HYDRANT AT STA 13+34.40, LT. THIS WORK SHALL BE COMPLETED WITHIN ONE (1) WORKING DAY. THE WORKING DAY SHALL NOT EXCEED 12 CONSECUTIVE HOURS.

LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
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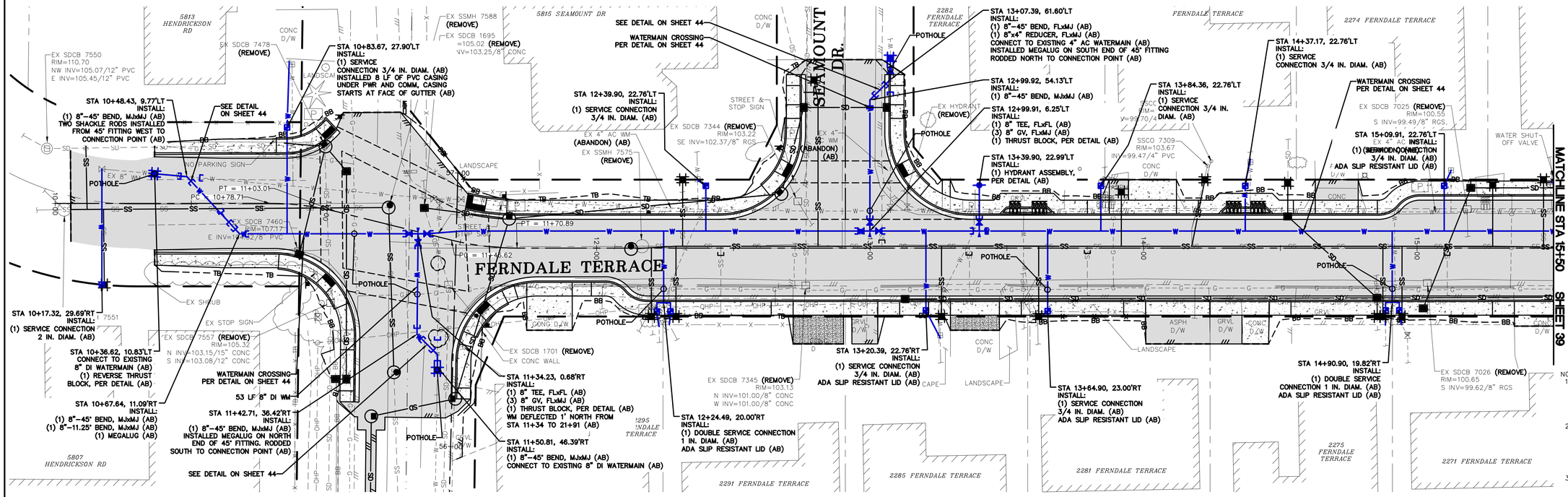
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

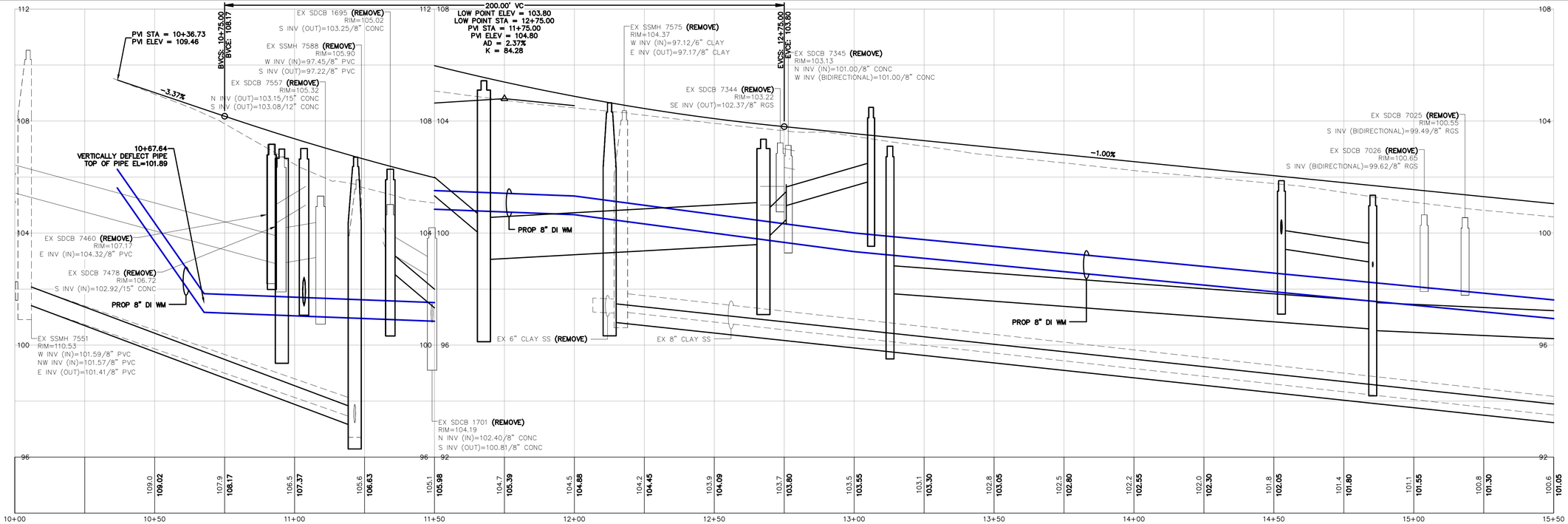
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER PLAN - STA 10+00 TO 36+50

DWG 18023 WATER			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 40' V: N/A		SHEET 37A of 85

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NOTE:
1. CONTRACTOR TO POTHOLE AT EACH SPECIFIED LOCATION FIVE (5) WORKING DAYS PRIOR TO PLANNED INSTALLATION TO VERIFY LAYOUT, PIPE LOCATION, DEPTH, SIZE, MATERIAL, AND ALL OTHER ITEMS NEEDED FOR THE CONNECTION.
2. CONTRACTOR SHALL POTHOLE THE WATER CONNECTIONS A MINIMUM OF FIFTEEN (15) WORKING DAYS PRIOR TO A PLANNED WATER SHUT-OFF TO VERIFY LAYOUT, PIPE LOCATION, DEPT, SIZE, MATERIAL, AND ALL OTHER ITEMS NEEDED FOR THE CONNECTION.
3. ALL REVERSE THRUST BLOCKS SHALL BE POURED A MINIMUM OF FIVE (5) DAYS PRIOR TO A PLANNED CONNECTION.



LUIS PONCE STATE OF WASHINGTON 38378 REGISTERED PROFESSIONAL ENGINEER

8/26/26 AS-BUILT

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DRAWN BY	GS/LMH
CHECKED BY	LP

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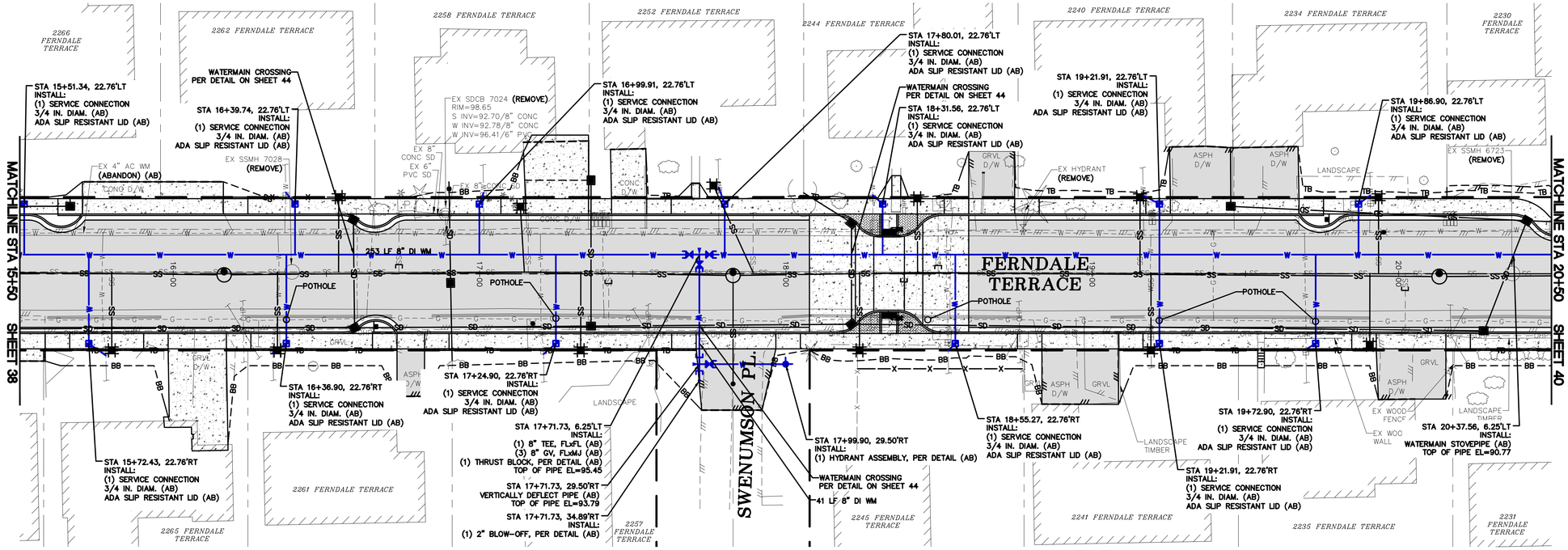
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER PLAN - STA 10+00 TO 15+50

DWG 18023 WATER
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 38 of 85

P:\Projects\18023\Civil 3D 2019\18023 WATER.dwg, 38 WATER PLAN - STA 10+00 TO 15+50, 8/26/2026 12:47:17 PM, , AutoCAD PDF (General Documentation).pc3

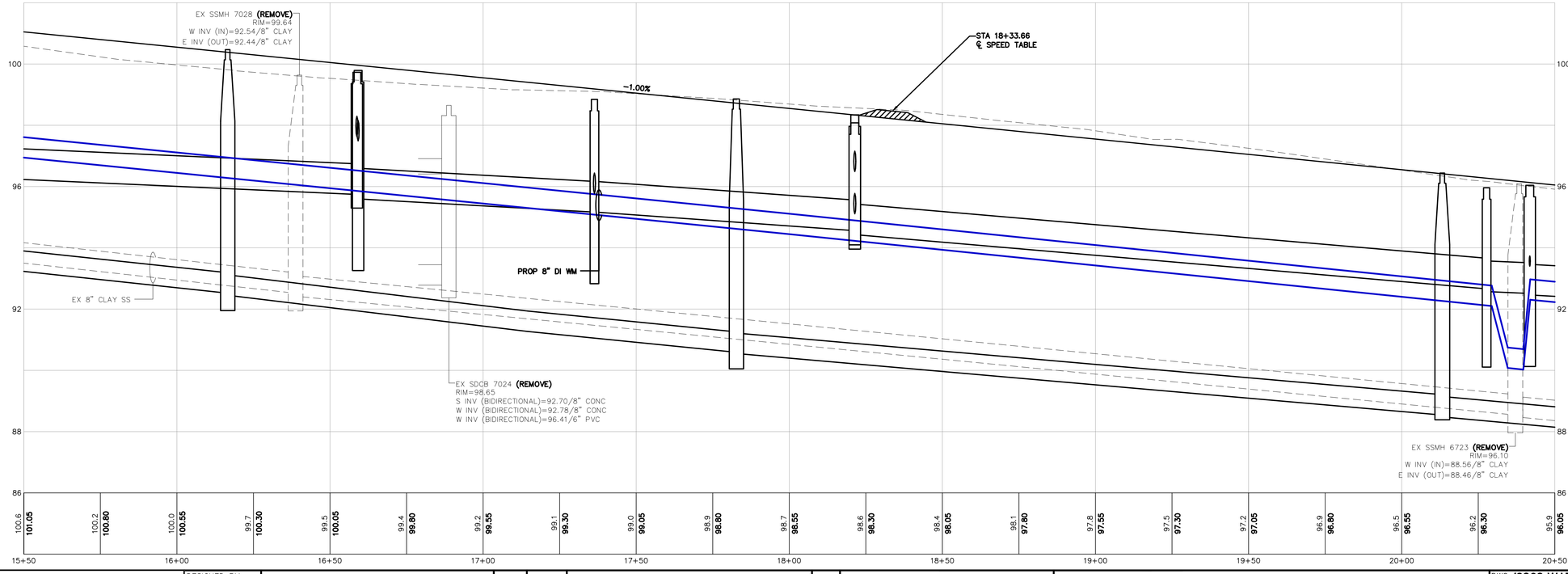


GRAPHIC SCALE

20 0 10 20

(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)

NOTE:
1. CONTRACTOR TO POTHOLE AT EACH SPECIFIED LOCATION FIVE (5) WORKING DAYS PRIOR TO PLANNED INSTALLATION TO VERIFY LAYOUT, PIPE LOCATION, DEPTH, SIZE, MATERIAL, AND ALL OTHER ITEMS NEEDED FOR THE CONNECTION.
2. CONTRACTOR SHALL POTHOLE THE WATER CONNECTIONS A MINIMUM OF FIFTEEN (15) WORKING DAYS PRIOR TO A PLANNED WATER SHUT-OFF TO VERIFY LAYOUT, PIPE LOCATION, DEPT, SIZE, MATERIAL, AND ALL OTHER ITEMS NEEDED FOR THE CONNECTION.
3. ALL REVERSE THRUST BLOCKS SHALL BE POURED A MINIMUM OF FIVE (5) DAYS PRIOR TO A PLANNED CONNECTION.



LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

8/26/26 AS-BUILT

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

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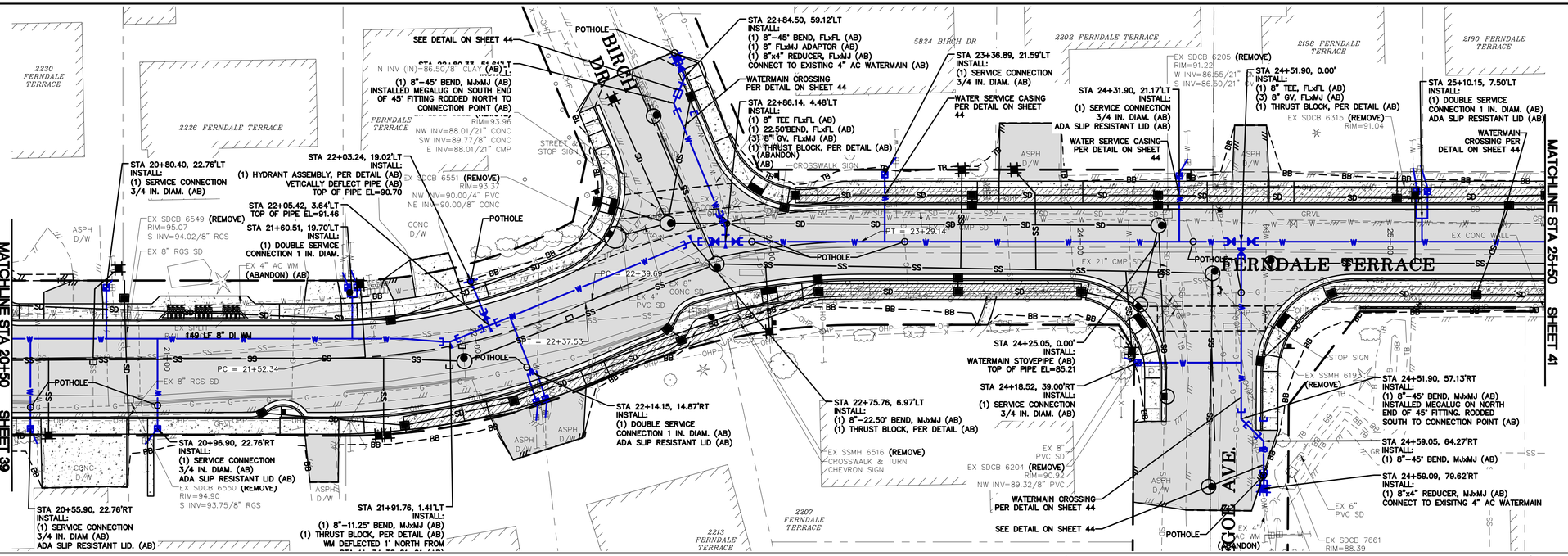
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CITY OF FERNDALE
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FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER PLAN - STA 15+50 TO 20+50

DWG 18023 WATER
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 39 of 85

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GRAPHIC SCALE

20 0 10 20

(IN FEET)
1"=20' H, 1"=2' V (22x34)
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LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

8/26/26 AS-BUILT

DESIGNED BY GS/LMH
DRAWN BY GS/LMH
CHECKED BY LP

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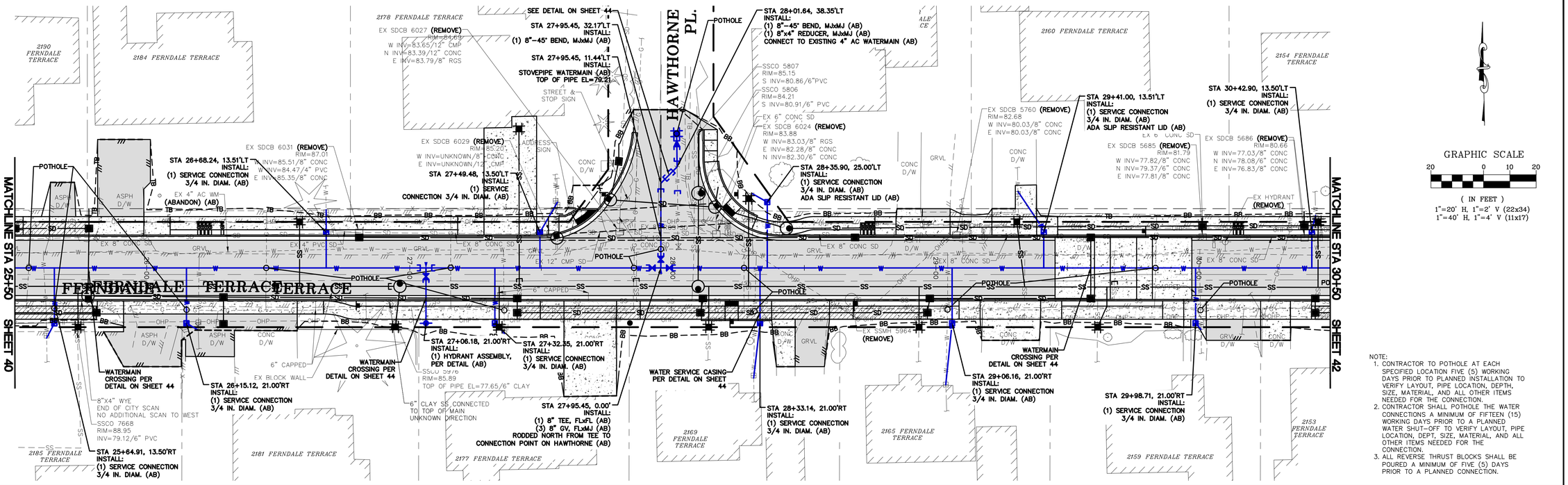
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER PLAN - STA 20+50 TO 25+50

DWG 18023 WATER
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 40 of 85

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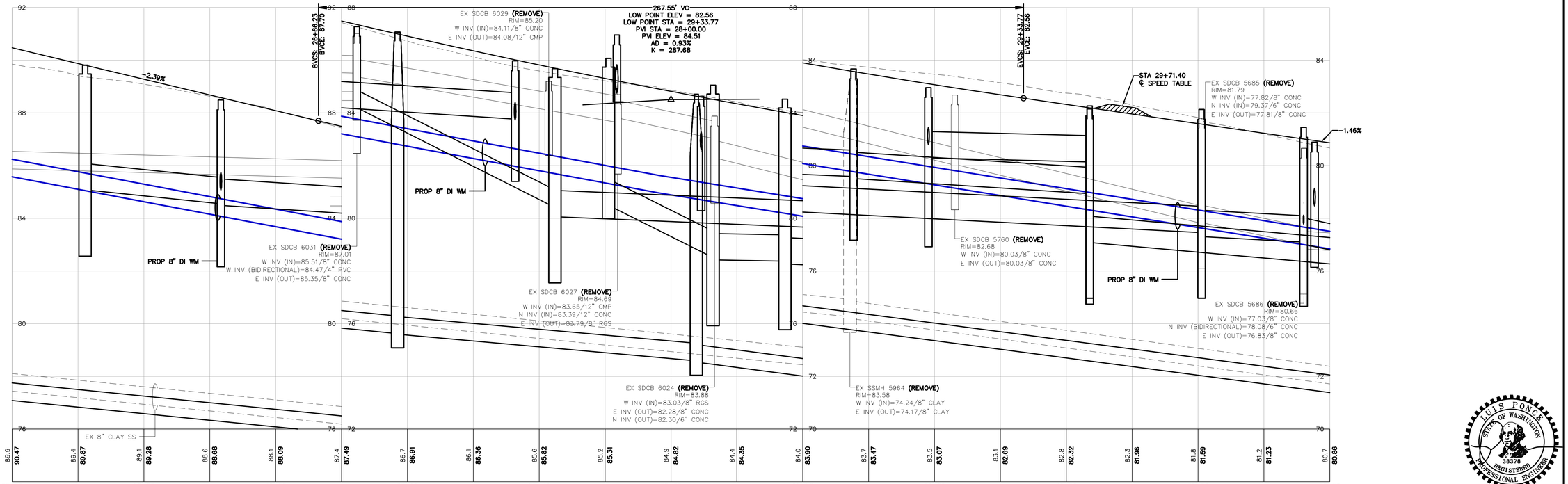


GRAPHIC SCALE

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(IN FEET)
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FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER PLAN - STA 25+50 TO 30+50

DWG 18023 WATER
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 41 of 85

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GRAPHIC SCALE
20 0 10 20
(IN FEET)
1"=20' H, 1"=2' V (22x34)
1"=40' H, 1"=4' V (11x17)

MATCHLINE STA 30+50 SHEET 41

20.00' UTILITY EASEMENT

2154 FERNDALE TERRACE
2146 FERNDALE TERRACE
2136 FERNDALE TERRACE
2130 FERNDALE TERRACE
5821 VISTA DR
2153 FERNDALE TERRACE
2145 FERNDALE TERRACE
2139 FERNDALE TERRACE
2133 FERNDALE TERRACE
2127 FERNDALE TERRACE
2121 FERNDALE TERRACE
2111 FERNDALE TERRACE

FERNDALE TERRACE
VISTA DR

EX 12" CONC SD
EX SDCB 5687 (REMOVE)
RIM=78.72
W INV=76.38/8" CONC
N INV=76.22/12" CONC
E INV=76.18/8" CONC
EX 6" AC WM
EX 6" DI
EX 8" CONC SD
EX 10" PVC SS
EX 8" CONC SD
EX 6" CAPPED SS
EX 10" PVC SS
UNKNOWN DIRECTION
EX SSMH 5605 (REMOVE)
RIM=79.08
N INV (IN)=71.83/10" PVC
W INV (IN)=70.73/8" CLAY
N INV (IN)=73.48/10" PVC
E INV (OUT)=70.63/8" CLAY
EX SSMH A (REMOVE)
BURIED MANHOLE FOUND PER SCAN
EX SDCB 5542 (REMOVE)
RIM=74.48
W INV=72.55/8" CONC
N INV=73.09/4" PVC
E INV=72.47/8" CONC
EX CONC WALL
EX 4" PVC SD
EX BLOCK WALL
WM TO EAST ASSUMED LOCATION
SSCO 5362
RIM=68.45
EX 8" DI WM
POTHOLE
CROSSWALK SIGN
EX SDCB 5151
RIM=61.05
W INV=57.86/8" CONC
E INV=57.51/12" CPSSP
S INV=57.82/8" CPSSP
EX 12" CPSSP SD
EX 30" CONC SD
EX 30" CONC SD
EX 12" CPSSP SD
EX SDCB 5152
RIM=61.53
NE INV=57.14/12" CPSSP
N INV=56.45/30" CONC
W INV=56.17/27" CONC
S INV=56.14/30" CONC
STREET SIGN
EX 8" PVC SS
EX 10" DI WM
EX SSMH 5168
RIM=61.91
W INV=50.08/8" PVC
N INV=50.31/8" PVC
S INV=49.87/8" PVC
YIELD SIGN
EX 12" CPSSP SD
EX 8" PVC SS
EX SDCB 5169
RIM=60.64
N INV=57.64/8" CPSSP
INFO SIGN
EX SHRUB
WATER SHUT OFF VALVE
EX 8" CLAY SS
EX 8" PVC SS
PROP 8" DI WM

STA 31+16.29, 0.00'
INSTALL:
(1) 8"X6" TEE, FLxFL (AB)
(2) 8" GV, FLxMJ (AB)
(1) 6" GV, FLxMJ (AB)
(1) THRUST BLOCK, PER DETAIL (AB)
CONNECT TO EXISTING 6" DI WATERMAIN (AB)
(1) REVERSE THRUST BLOCK, PER DETAIL (AB)

WATERMAIN CROSSING PER DETAIL ON SHEET 44

STA 31+53.90, 13.50'LT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)

POTHOLE (ABANDON) (AB)
STA 31+16.26, 11.12'LT
INSTALL:
WATERMAIN STOVEPIPE (AB)
TOP OF PIPE EL=73.95

WATER SERVICE CASING PER DETAIL ON SHEET 44

STA 30+64.36, 21.00'RT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)

(REMOVE)
WATER SERVICE CASING PER DETAIL ON SHEET 44

STA 31+73.17, 21.02'RT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)

WATER MAIN CROSSING PER DETAIL ON SHEET 44

STA 32+00.29, 21.56'RT
INSTALL:
(1) HYDRANT ASSEMBLY, PER DETAIL (AB)

STA 32+79.73, 13.52'LT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)
ADA SLIP RESISTANT LID (AB)

STA 32+37.54, 20.63'RT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)

WATERMAIN CROSSING PER DETAIL ON SHEET 44

STA 33+17.09, 14.00'RT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)

WATERMAIN CROSSING PER DETAIL ON SHEET 44

STA 33+54.42, 15.65'LT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)
ADA SLIP RESISTANT LID (AB)

STA 33+63.22, 22.00'RT
INSTALL:
(1) SERVICE CONNECTION 3/4 IN. DIAM. (AB)

WATERMAIN CROSSING PER DETAIL ON SHEET 44

STA 34+39.78, 1.74'RT
INSTALL:
(1) 8"-45° BEND, MJxMJ (AB)
INSTALLED REVERSE THRUST BLOCK ON NW SIDE OF 45° BEND, RODDED TO FITTING (AB)

SEE DETAIL ON SHEET 44

STA 34+66.94, 19.89'LT
INSTALL:
(1) 8" GV, MJxMJ (AB)
(1) 8" SPOOL (AB)
(1) 8"-45° BEND, MJxMJ (AB)
(1) THRUST BLOCK, PER DETAIL (AB)
CONNECT TO EXISITNG 8" DI WATERMAIN (AB)
(1) REVERSE THRUST BLOCK, PER DETAIL (AB)

STA 35+00.32, 16.52'RT
INSTALL:
LOWERING SERVICE CONNECTION PER DETAIL (AB)
ADA SLIP RESISTANT LID (AB)

200.00' VC
HIGH POINT ELEV = 79.26
HIGH POINT STA = 31+60.00
PVI STA = 32+60.00
PVI ELEV = 77.81
AD = -4.28%
K = 46.77
BVCE: 79.26
EVCE: 72.07
PVI STA = 33+79.94
PVI ELEV = 70.83
-1.46%
-5.73%
-6.37%
PVI STA = 35+00.00
PVI ELEV = 63.28

NOTE:
1. CONTRACTOR TO POTHOLE AT EACH SPECIFIED LOCATION FIVE (5) WORKING DAYS PRIOR TO PLANNED INSTALLATION TO VERIFY LAYOUT, PIPE LOCATION, DEPTH, SIZE, MATERIAL, AND ALL OTHER ITEMS NEEDED FOR THE CONNECTION.
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LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
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8/26/26
AS-BUILT

DESIGNED BY	DRAWN BY	CHECKED BY
GS/LMH	GS/LMH	LP

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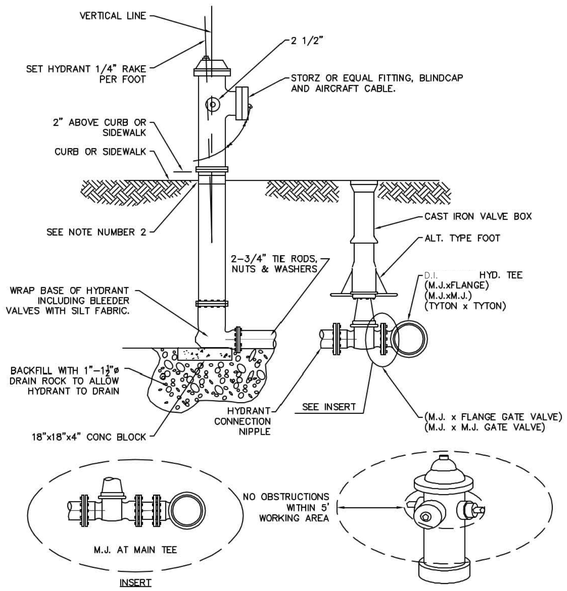
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CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER PLAN - STA 30+50 TO 36+50

DWG 18023 WATER
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 42 of 85

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NOTES:
1. FOR CLOSE COUPLED HYDRANTS USE ALL FLANGE TYPE CONNECTIONS.
2. IF HYDRANT RISES THROUGH CONCRETE USE EXPANSION STRIP AROUND HYDRANT BARREL.
3. ALL HYDRANT ASSEMBLIES WILL BE M&H MODEL **129S.**

MODIFIED

AUGUST 2, 2017

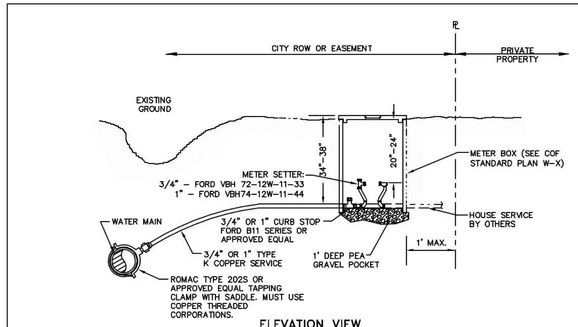
APPROVED

Public Works Director — 8/11/17 Date

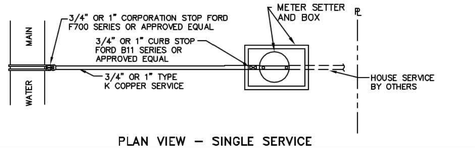
FIRE HYDRANT ASSEMBLY

STANDARD DETAIL W-1

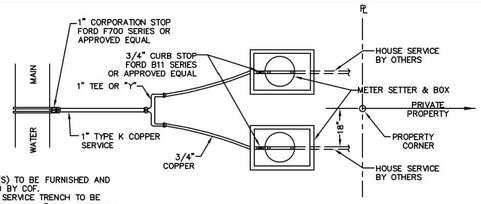
NOT TO SCALE



ELEVATION VIEW



PLAN VIEW – SINGLE SERVICE



NOTES:
1. METER(S) TO BE FURNISHED AND INSTALLED BY COF.
2. WATER SERVICE TRENCH TO BE BACKFILLED WITH 12" MIN. DEPTH OF CLEAN SANDY FILL.

PLAN VIEW – DOUBLE SERVICE

NOVEMBER 23, 2016

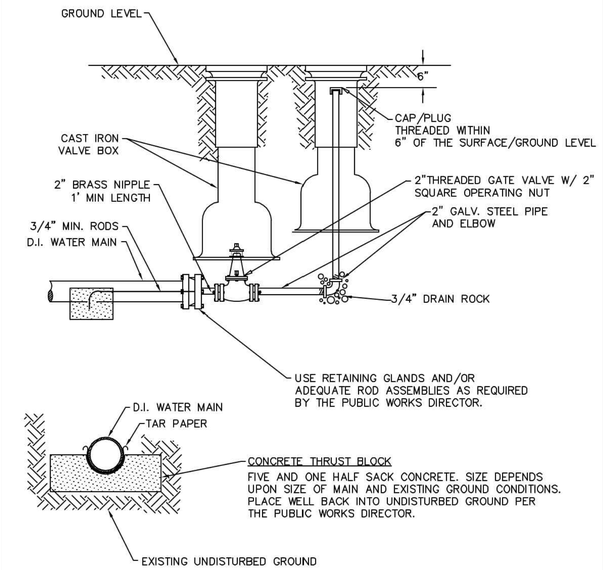
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Public Works Director — 8/11/17 Date

TYPICAL ¾" AND 1" WATER SERVICE

STANDARD DETAIL W-5

NOT TO SCALE



AUGUST 1, 2017

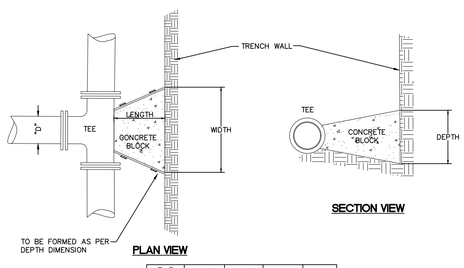
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Public Works Director — 8/11/17 Date

2" BLOW-OFF FUTURE WATERMAIN EXTENSION (ALTERNATIVE)

STANDARD DETAIL W-10

NOT TO SCALE



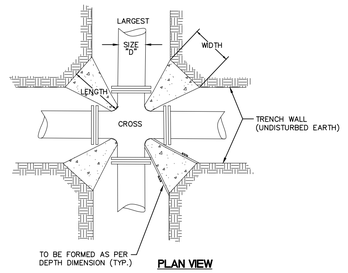
PLAN VIEW

SECTION VIEW

"D"	WIDTH	DEPTH	LENGTH	VOL.
6"	1'-6"	1'-6"	12"	3.0
8"	2'-0"	2'-0"	12"	4.5
10"	2'-6"	2'-6"	12"	7.0
12"	3'-0"	3'-0"	18"	14.0

VOL. = Approx. Volume of Blocking Material Required in cu. ft.

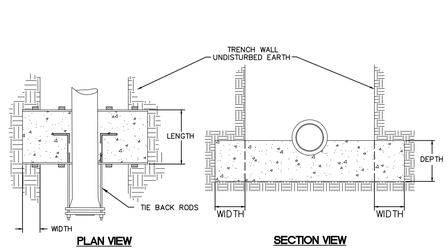
SOIL BEARING CAPACITY 1500 PSF MINIMUM
100 P.S.I. OPERATING PRESSURE



PLAN VIEW

"D"	WIDTH	DEPTH	LENGTH	VOL.	X4 blocks/joint
6"	1'-0"	1'-0"	12"	0.63	2.50 cu ft
8"	1'-3"	1'-3"	12"	1.00	4.01 cu ft
10"	1'-6"	1'-6"	12"	1.63	6.50 cu ft
12"	1'-9"	1'-9"	18"	3.05	12.19 cu ft

VOL. = Approx. Volume of Blocking Material Required in cu. ft.

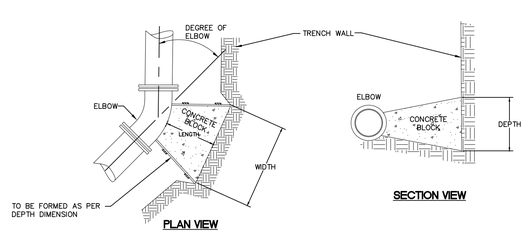


PLAN VIEW

SECTION VIEW

"D"	WIDTH	DEPTH	LENGTH	*VOL.	# OF RODS	ROD DIA.
6"	1'-6"	1'-6"	12"	7.5	2	1/2"
8"	2'-0"	2'-0"	18"	20.0	2	5/8"
10"	2'-6"	2'-6"	24"	37.5	2	3/4"
12"	2'-9"	2'-9"	24"	44.0	4	3/4"

*VOL. = Approx. Volume of Blocking Material Required in cu. ft.
RODS: A36 STEEL MINIMUM



PLAN VIEW

SECTION VIEW

SIZE	LENGTH	11 1/4°			22 1/2°			45°			90°		
		WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.
6"	12"	1'-0"	1'-0"	0.63	1'-0"	1'-0"	0.63	1'-6"	1'-6"	1.25	2'-3"	1'-6"	1.88
8"	12"	1'-3"	1'-3"	1.00	1'-3"	1'-3"	1.00	1'-9"	1'-9"	1.75	3'-0"	2'-0"	3.33
10"	12"	1'-9"	1'-6"	1.72	1'-9"	1'-6"	1.72	2'-3"	2'-3"	2.88	3'-6"	2'-6"	4.861
12"	18"	2'-0"	1'-9"	3.48	2'-0"	1'-9"	3.48	2'-9"	2'-6"	5.98	4'-0"	3'-0"	10.00

VOL. = Approx. Volume of Blocking Material Required in cu. ft.

THRUST BLOCKING

NTS

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

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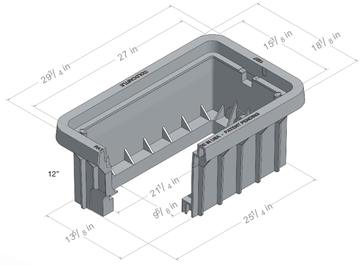
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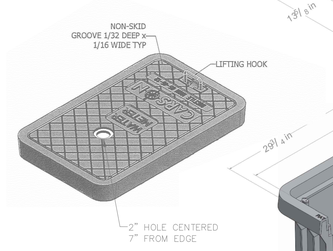
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER DETAILS (1)

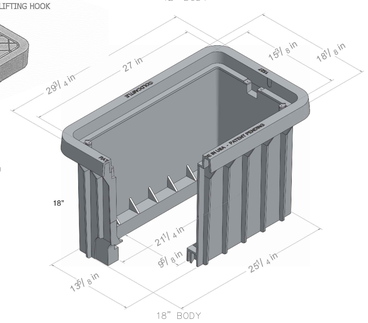
DWG	18023 DETAILS
DATE	8/27/2026
JOB#	18023
SCALE	H: N/A V: N/A
SHEET	43 of 85

P:\Projects\18023\Civil 3D 2015\18023 DETAILS.dwg, 43 WATER DETAILS (1), 8/28/2026 12:51:07 PM, , AutoCAD PDF (General Documentation).pc3

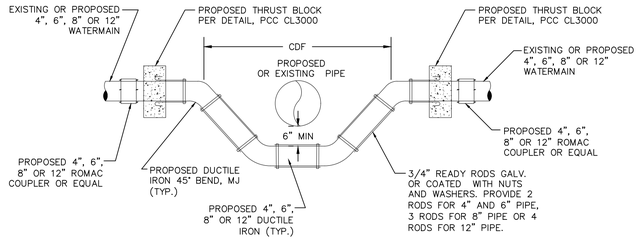
NOTE:
1. CARSON HEAVYWALL MODEL 1527BCF OR APPROVED EQUAL WITH DUCTILE LID
2. METER BOXES LOCATED WITHIN THE SIDEWALK SHALL AT A MINIMUM BE A NON-SKID POLYMER LID, WITH 2" HOLE AS SHOWN BELOW AND SHALL HAVE A COEFFICIENT OF FRICTION OF 0.96 DRY AND 0.88 WET BASED ON TEST METHOD ASTM C-1028



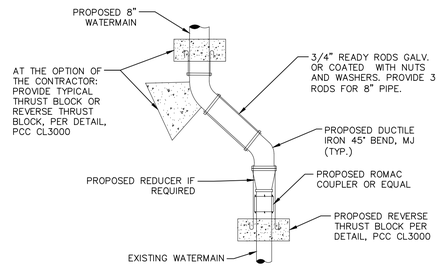




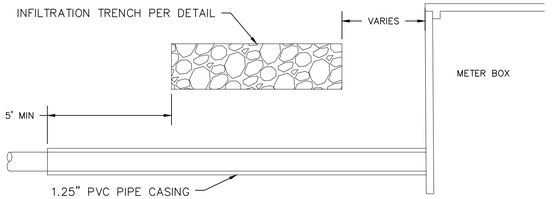
3/4" AND 1" WATER METER BOX
NTS



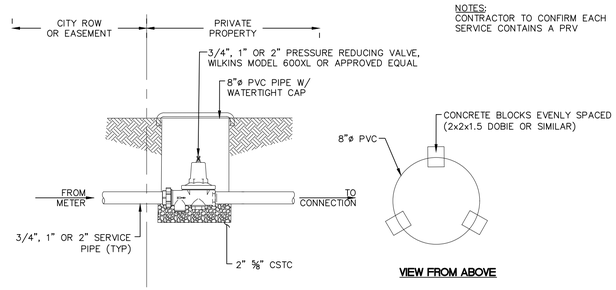
WATERMAIN STOVEPIPE
NTS



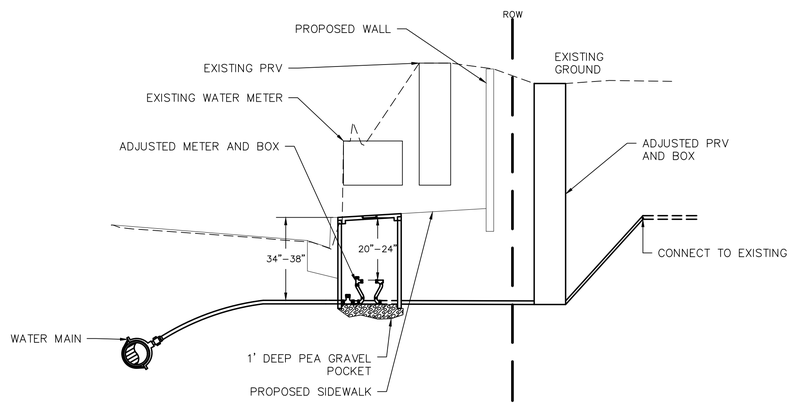
WATER MAIN CONNECTION DETAIL
NTS



SERVICE CONNECTION WITH CASING
NTS

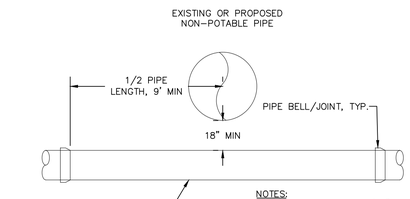


PRESSURE REDUCING VALVE DETAIL
NTS



STATION 35+00 RT

LOWERING SERVICE CONNECTION
NTS



WATERMAIN CROSSING NON-POTABLE PIPE
NTS

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STATE OF WASHINGTON
38378
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GS/LMH	GS/LMH	LP

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Lynden, WA 98264 (360) 354-3687

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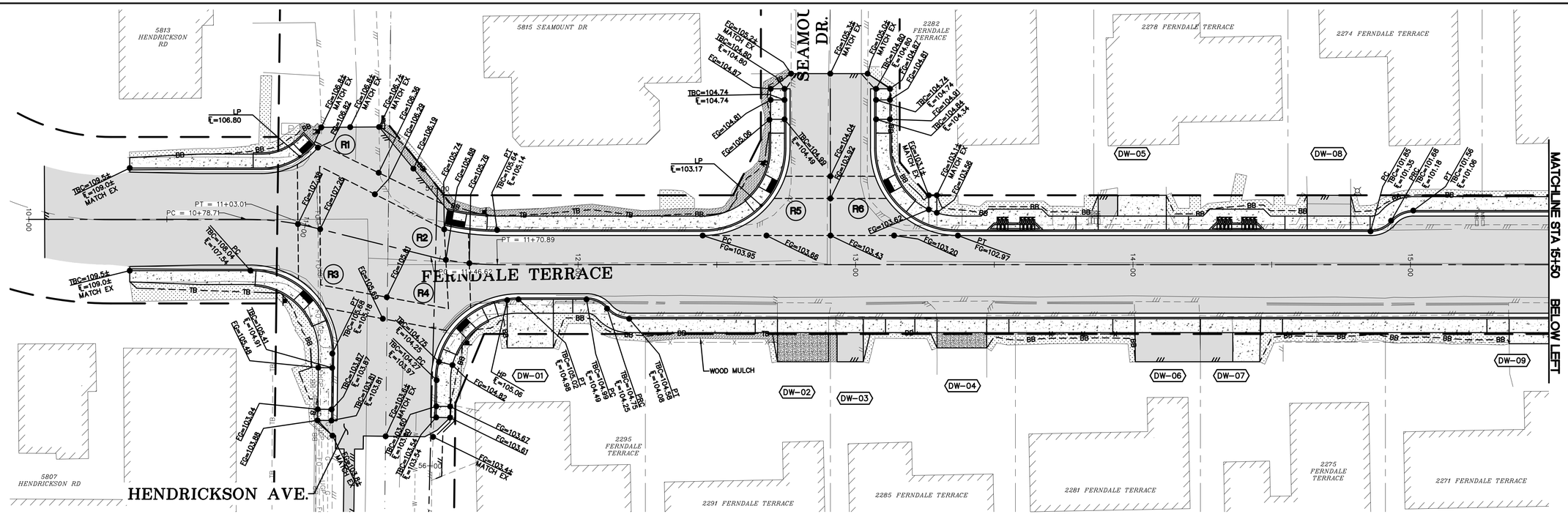
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WATER DETAILS (2)

DWG	DATE
18023 DETAILS	8/27/2026

JOB#	SCALE	SHEET
18023	H: N/A V: N/A	44 of 85

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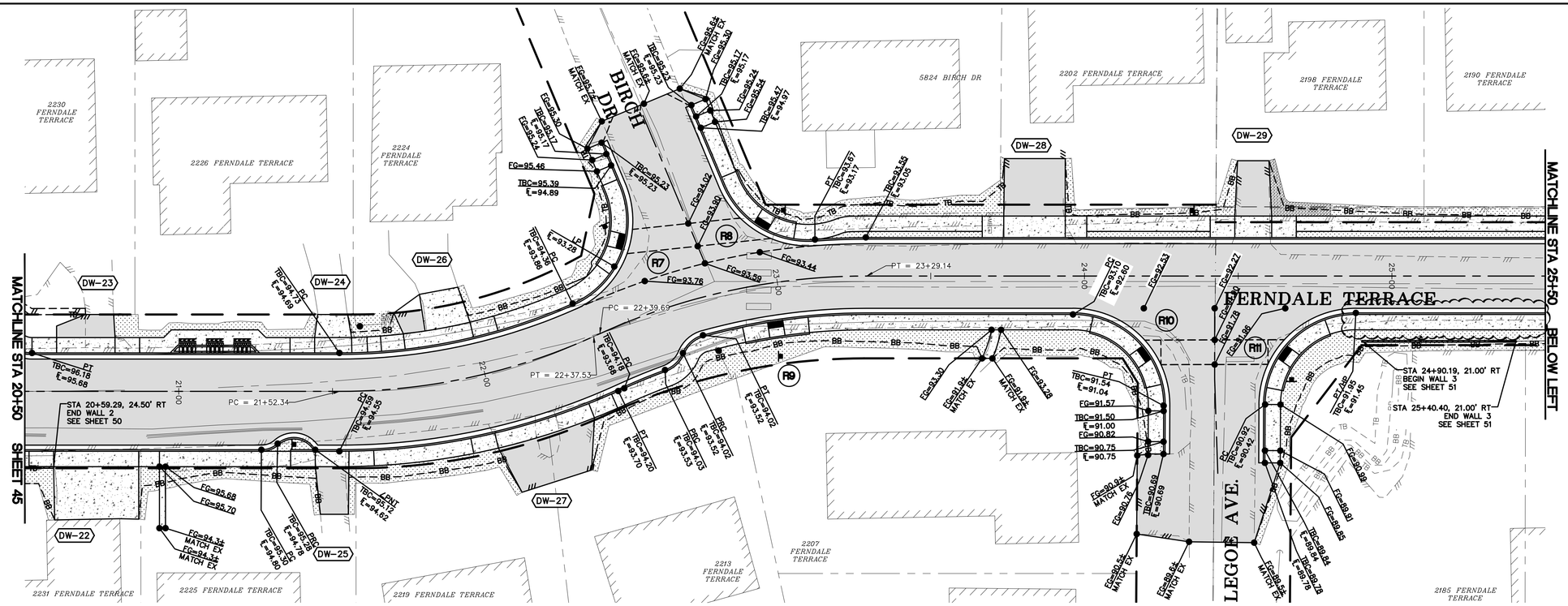
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

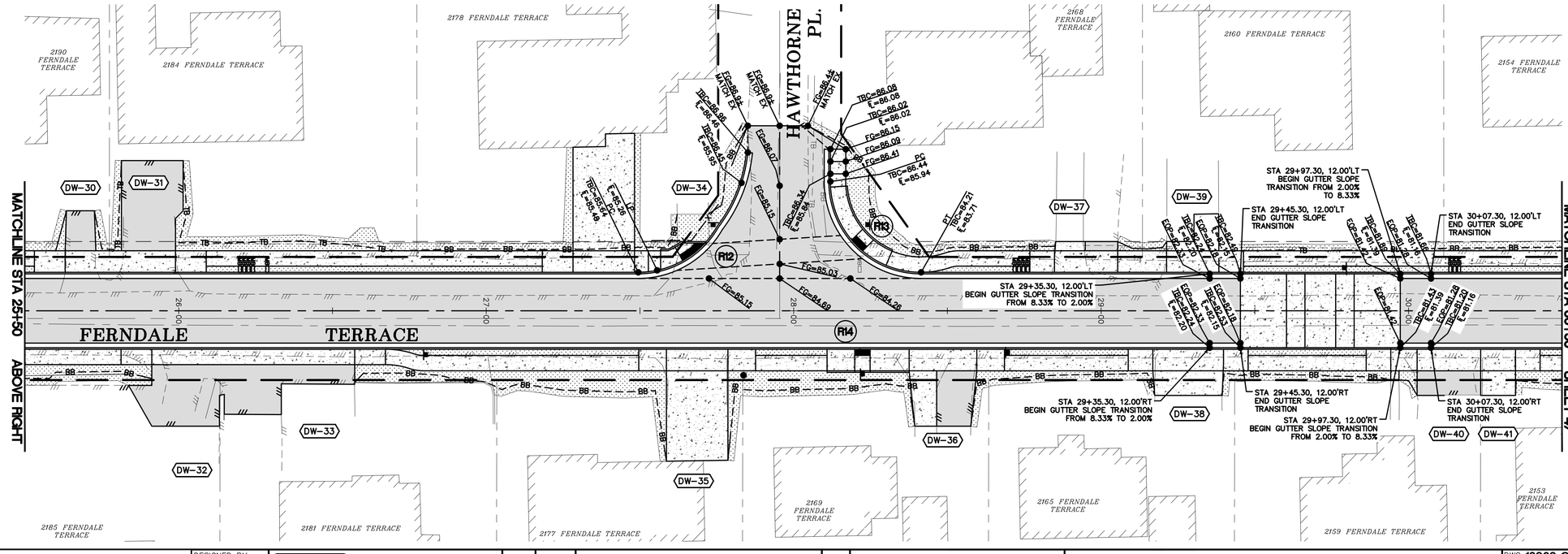
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
GRADING PLAN - STA 10+00 TO 20+50

DWG 18023 GRADE			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: N/A		SHEET 45 of 85

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P:\Projects\18023\Civil 3D 2015\18023 GRADE.dwg, 01 GRADING PLAN - STA 10+00 TO 20+50, 8/26/2026 12:52:13 PM, , AutoCAD PDF (General Documentation).pc3





GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' (22x34), 1"=40' (11x17)

LEGEND

RX = CURB RAMP

DW-XX = DRIVEWAY

SEE SHEET 52 – 56 FOR CURB RAMP DETAILS

SEE SHEET 57 – 70 FOR DRIVEWAY GRADING DETAILS

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STATE OF WASHINGTON
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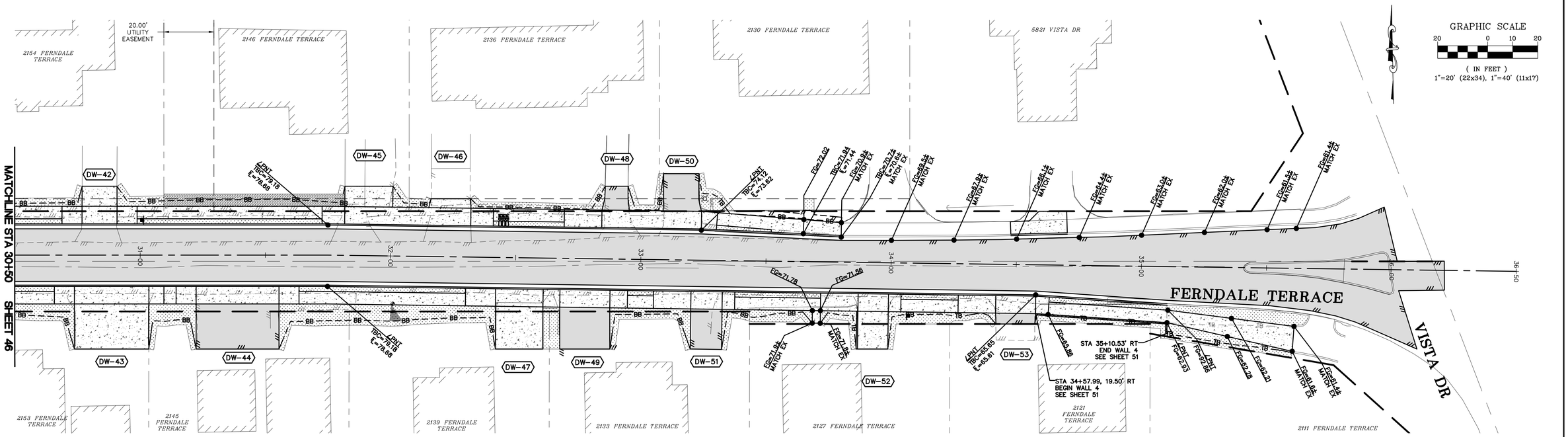
FERNDALE TERRACE PROJECT

HENDRICKSON AVENUE TO VISTA DRIVE

GRADING PLAN – STA 20+50 TO 30+50

DWG 18023 GRADE		DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: N/A	SHEET 46 of 85

P:\Projects\18023\Civil 3D 2015\18023 GRADE.dwg, 46 GRADING PLAN - STA 20+50 TO 30+50, 8/26/2026 12:52:38 PM, , AutoCAD PDF (General Documentation).pc3



GRAPHIC SCALE

20 0 10 20

(IN FEET)
1"=20' (22x34), 1"=40' (11x17)

LEGEND

(RX) = CURB RAMP

DW-XX = DRIVEWAY

SEE SHEET 52 – 56 FOR CURB RAMP DETAILS

SEE SHEET 57 – 70 FOR DRIVEWAY GRADING DETAILS

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FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
GRADING PLAN - STA 30+50 TO 36+50

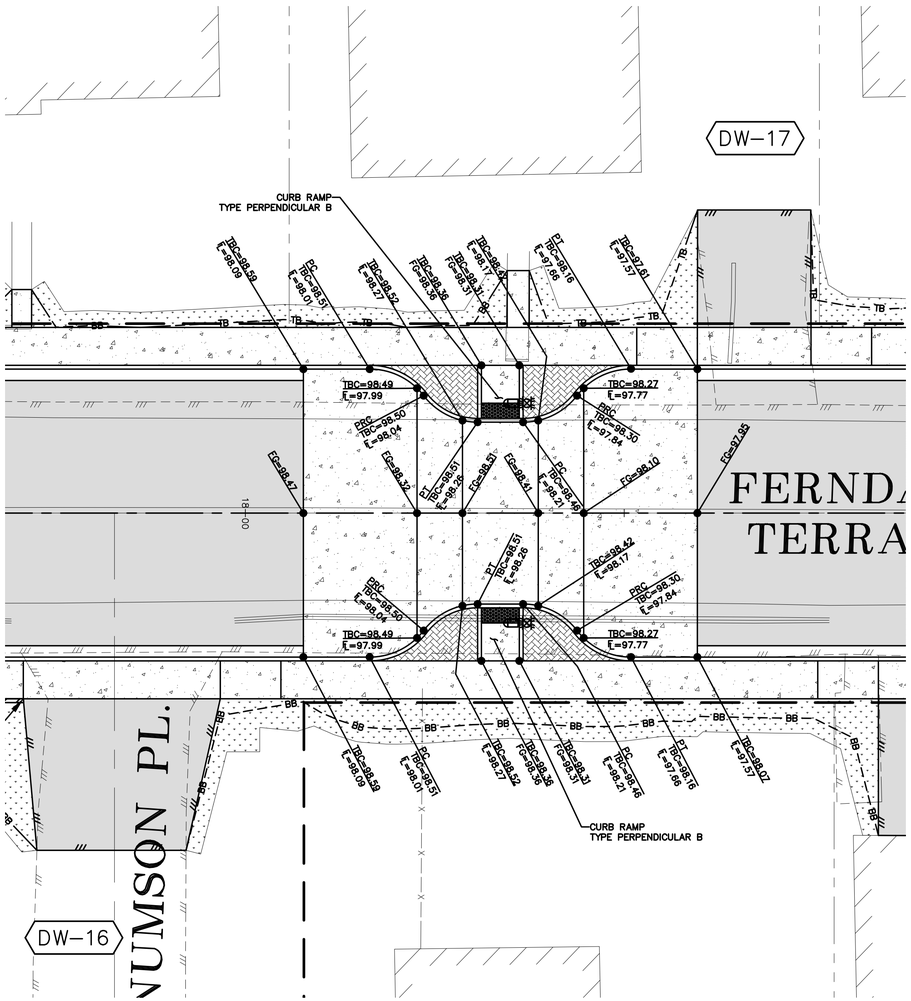
DWG 18023 GRADE
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: N/A
SHEET 47 of 85

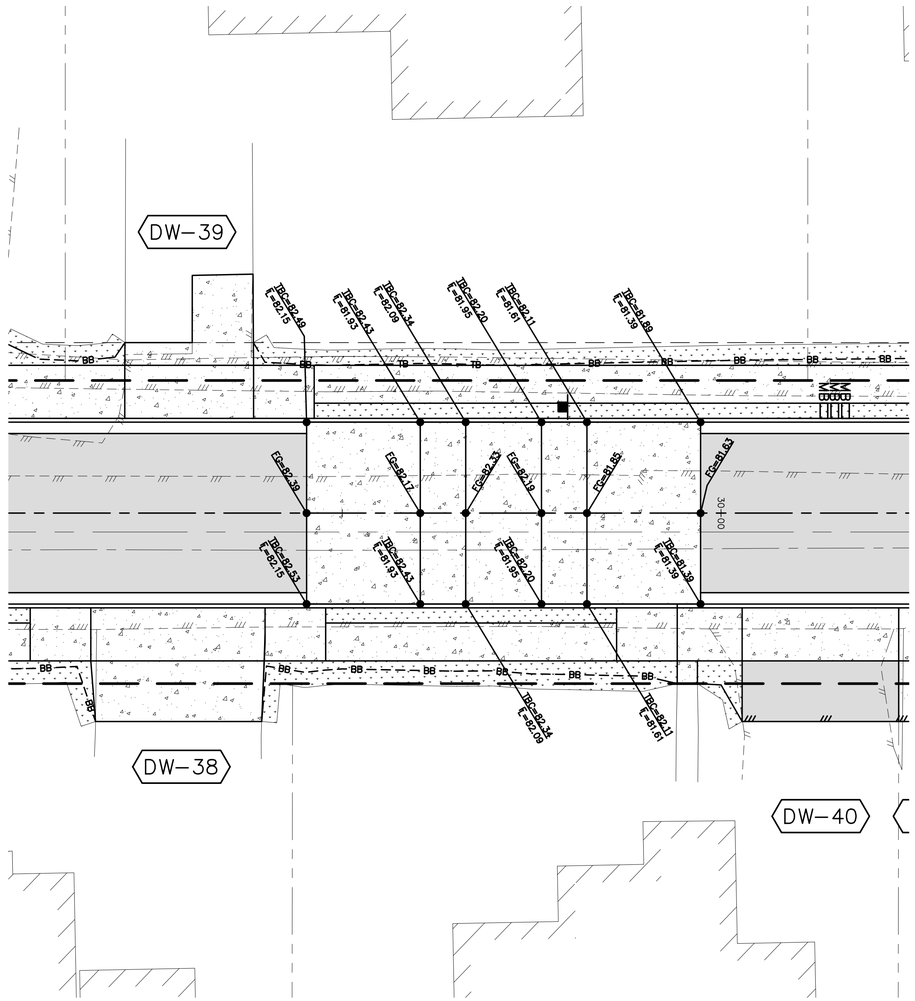
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GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' (22x34), 1"=20' (11x17)





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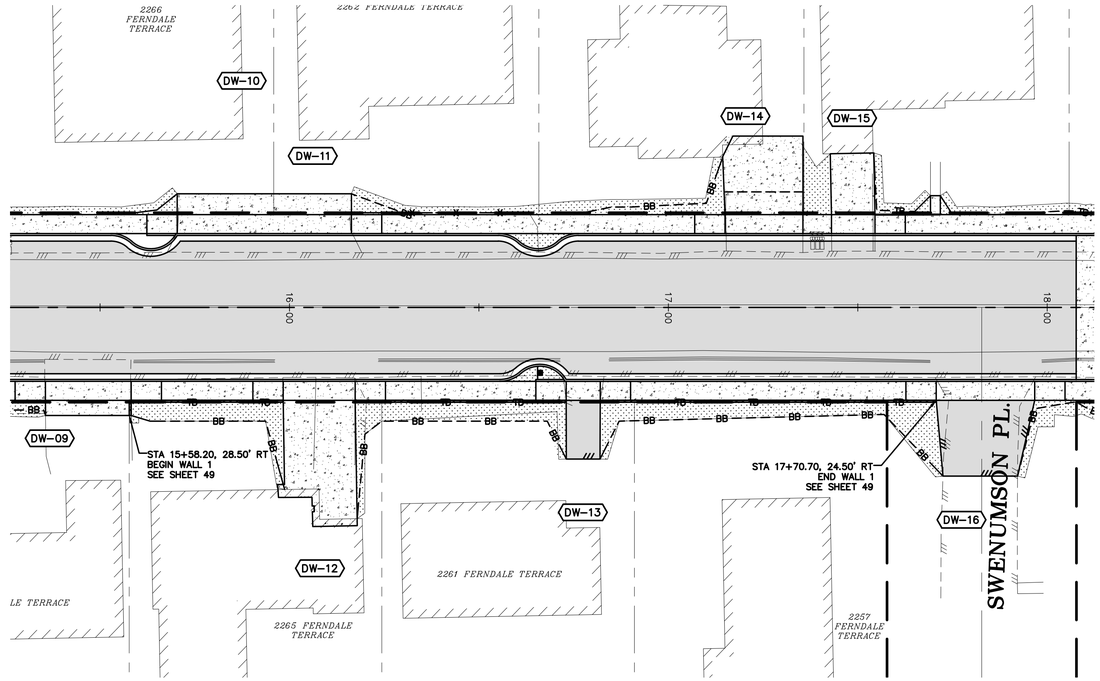
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

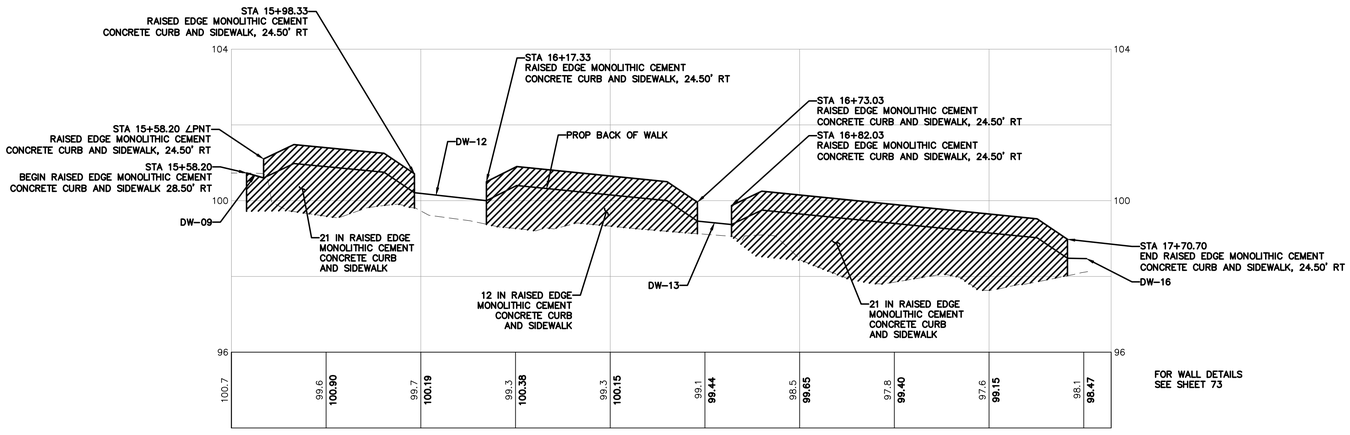
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
SPEED TABLE GRADING

DWG 18023 GRADE			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 10' V: N/A		SHEET 48 of 85

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P:\Projects\18023\Civil 3D 2015\18023 GRADE.dwg, 48 - SPEED TABLE GRADING, 8/26/2026 12:54:07 PM, AutoCAD PDF (General Documentation).pc3





FOR WALL DETAILS
SEE SHEET 73

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1"=20' (22x34), 1"=40' (11x17)

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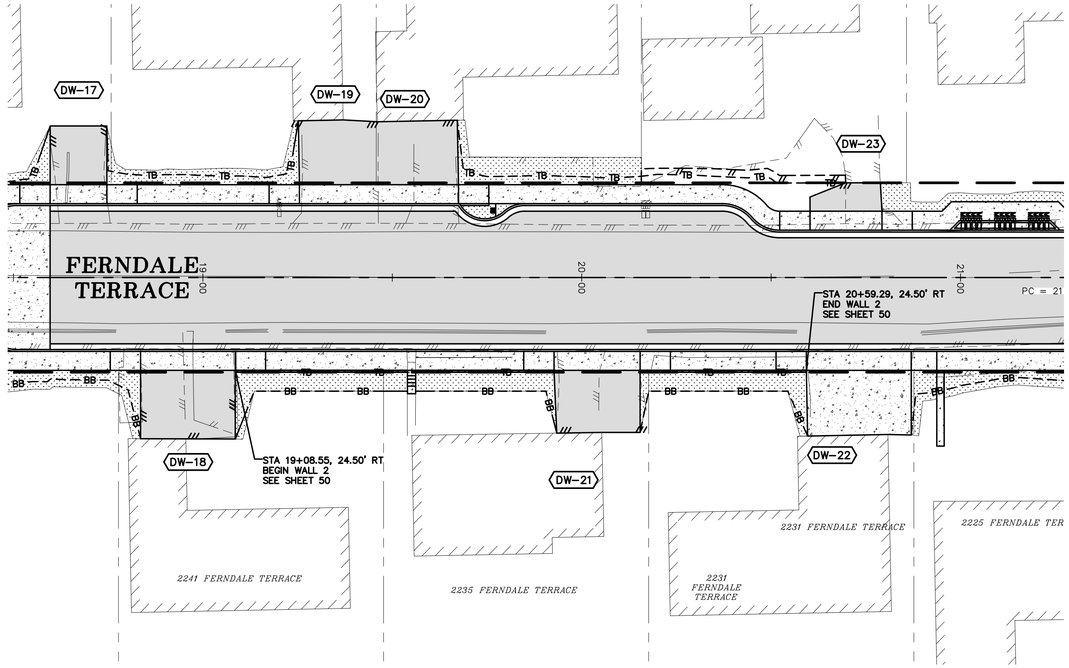
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FERNDALE, WA 98248

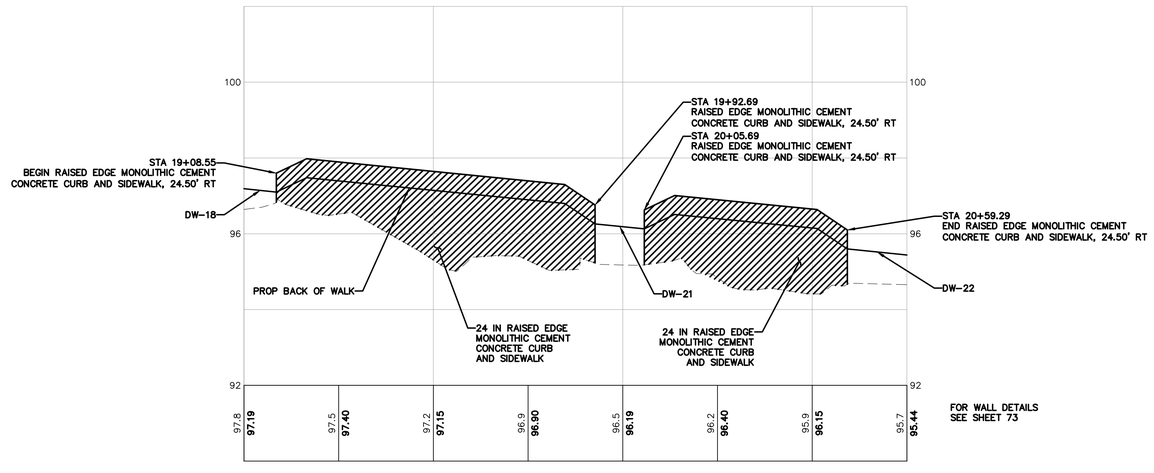
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WALL 1 GRADING

DWG	DATE
18023 GRADE	8/27/2026

JOB#	SCALE	SHEET
18023	H: 1" = 20' V: 1" = 2'	49 of 85

P:\Projects\18023\Civil 3D 2015\18023 GRADE.dwg, 49 - WALL 1 GRADING, 8/28/2026 12:54:37 PM, AutoCAD PDF (General Documentation).pc3





GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' (22x34), 1"=40' (11x17)

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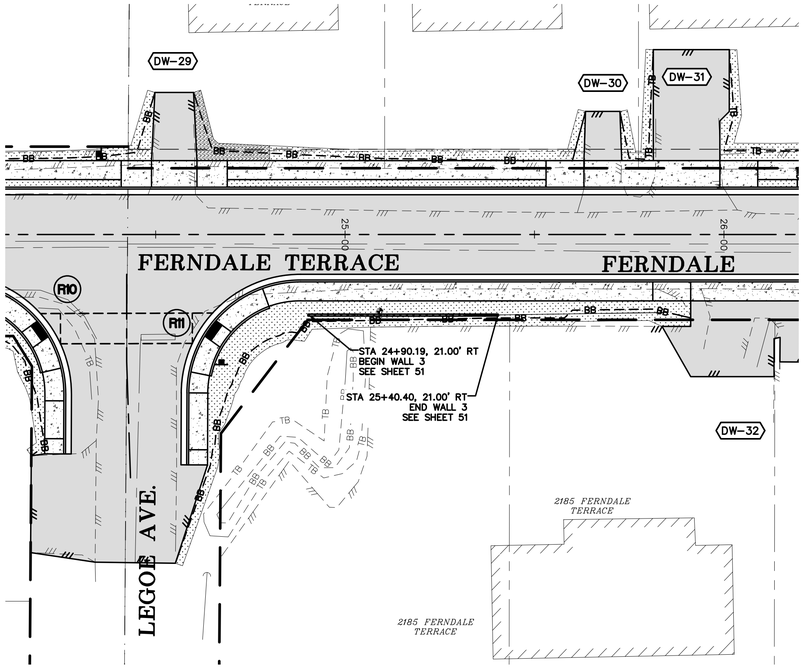
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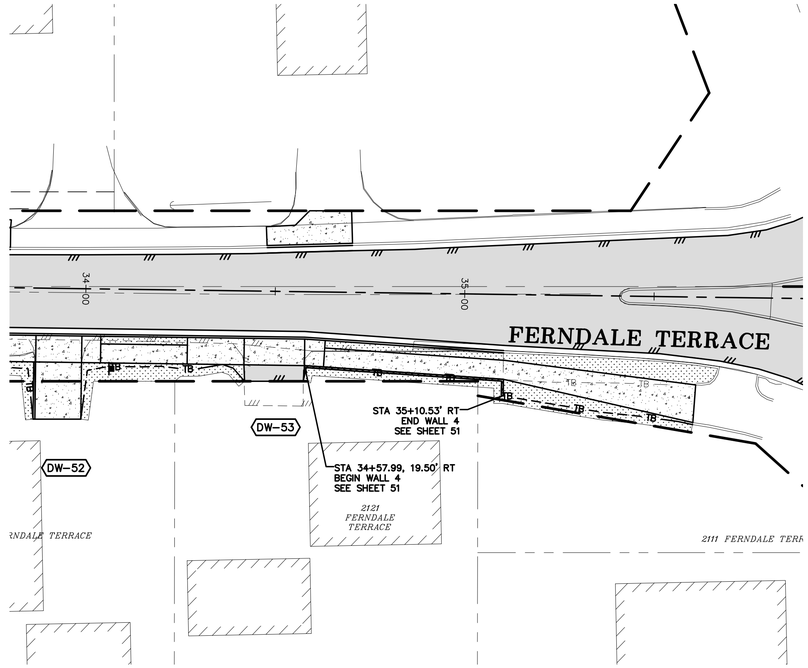
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FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WALL 2 GRADING

DWG 18023 GRADE
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 50 of 85

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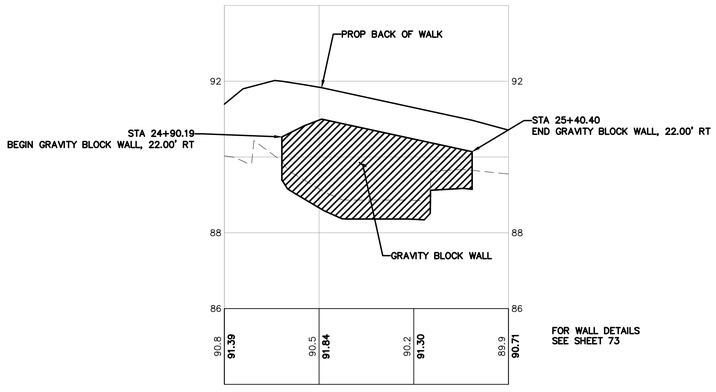


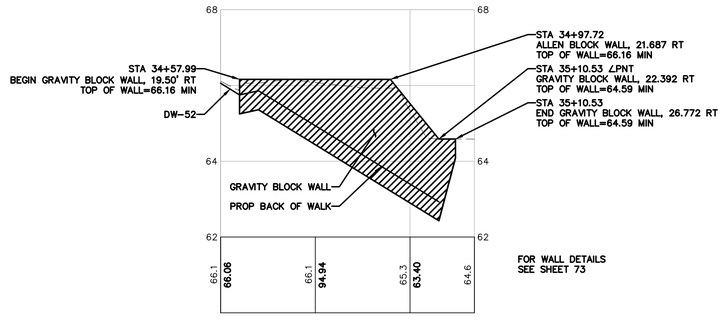
GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' (22x34), 1"=40' (11x17)





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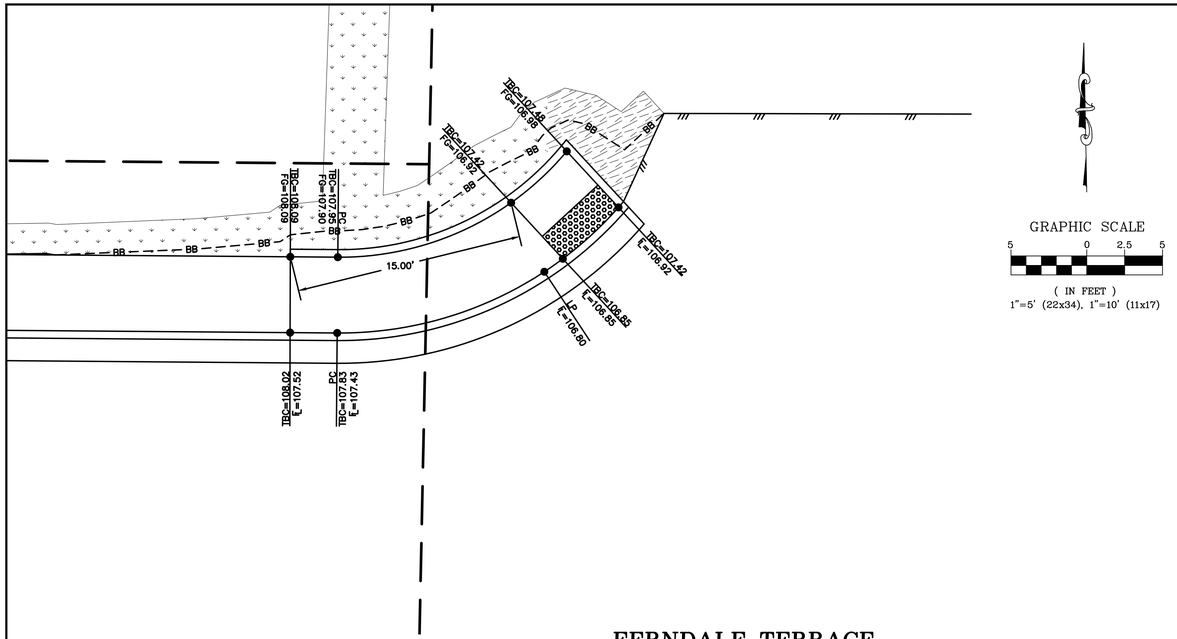
FERNDALE TERRACE PROJECT

HENDRICKSON AVENUE TO VISTA DRIVE

WALL 3 AND 4 GRADING

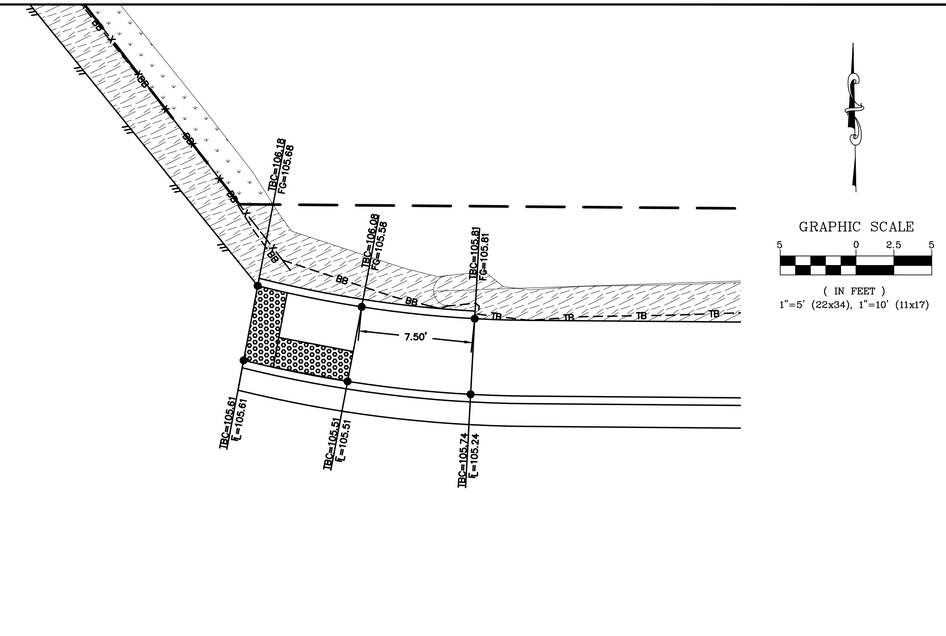
DWG 18023 GRADE			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: 1" = 2'		SHEET 51 of 85

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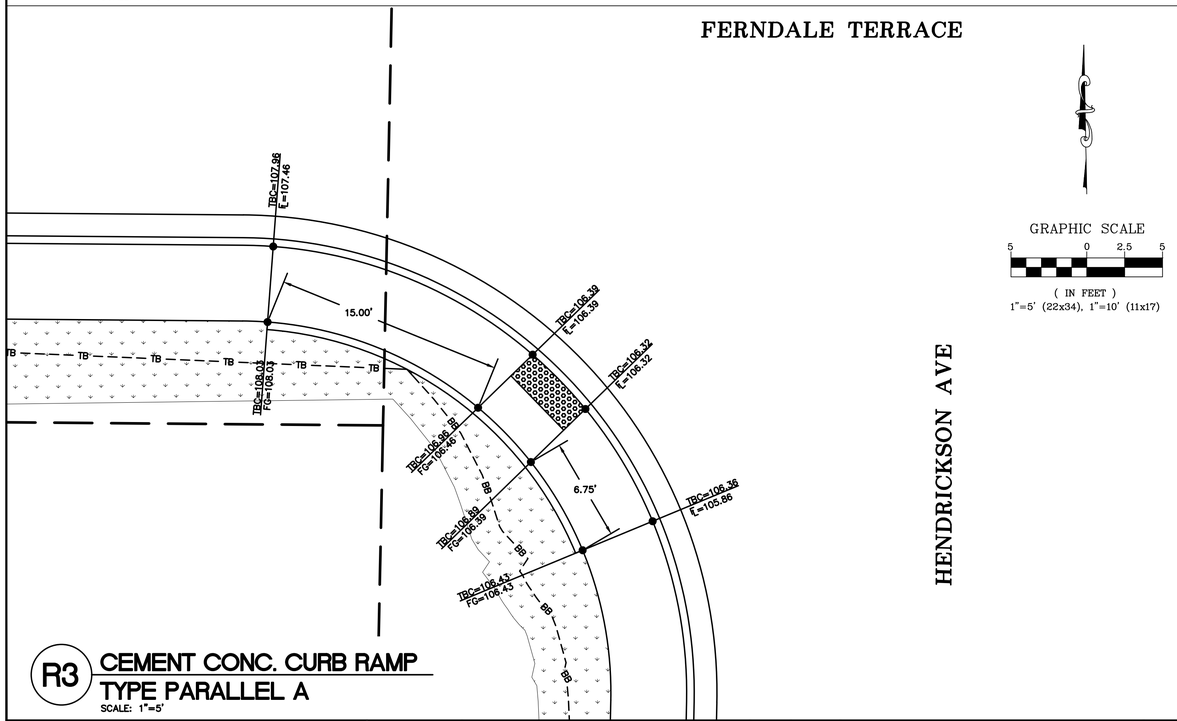
R1 CEMENT CONC. CURB RAMP TYPE PARALLEL B

SCALE: 1"=5'



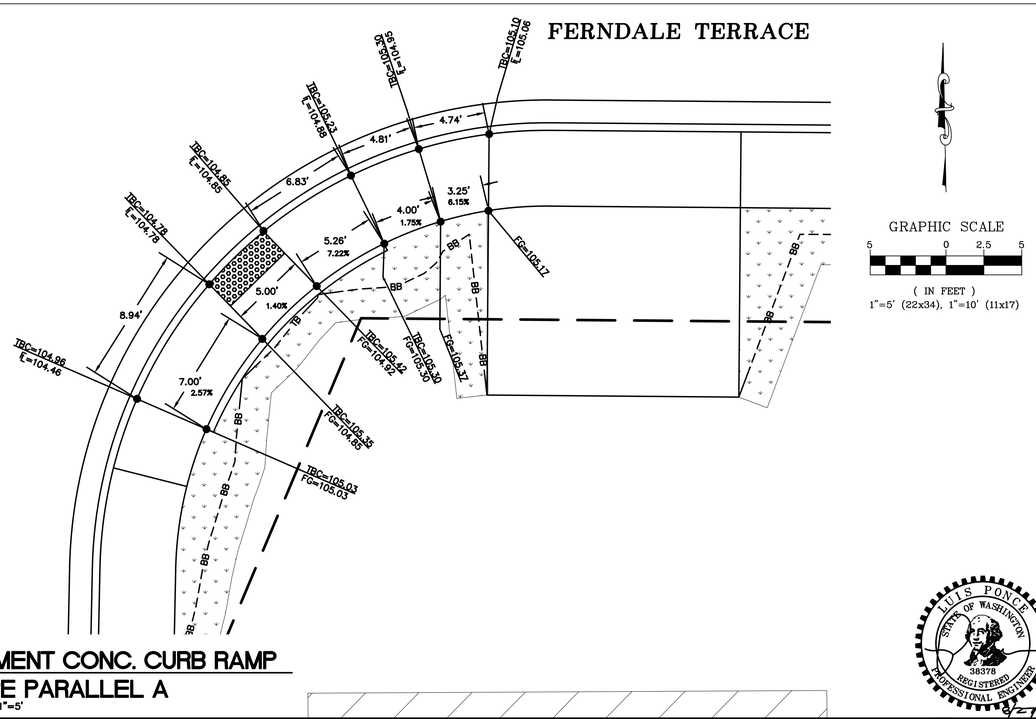
R2 CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION A

SCALE: 1"=5'



R3 CEMENT CONC. CURB RAMP TYPE PARALLEL A

SCALE: 1"=5'



R4 CEMENT CONC. CURB RAMP TYPE PARALLEL A

SCALE: 1"=5'

LUIS PONCE
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DRAWN BY	GS/LMH
CHECKED BY	LP

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Lynden, WA 98264 (360) 354-3687

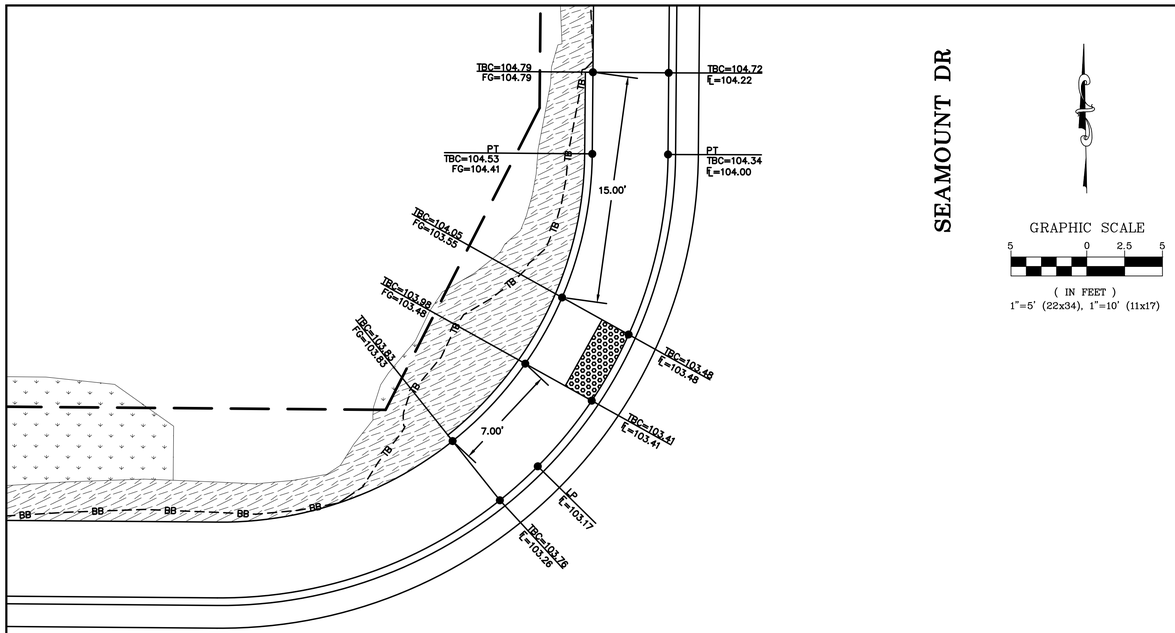
NO.	DATE	DESCRIPTION	BY

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FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
GRADE RAMPS - HENDRICKSON

DWG 18023 GRADE			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=5'	V: N/A	SHEET 52 of 85

P:\Projects\18023\Cnd 30-2015\18023 GRADE .dwg, S2 GRADE RAMPS - HENDRICKSON, 8/26/2026 12:56:38 PM, , AutoCAD PDF (General Documentation).pc3



GRAPHIC SCALE

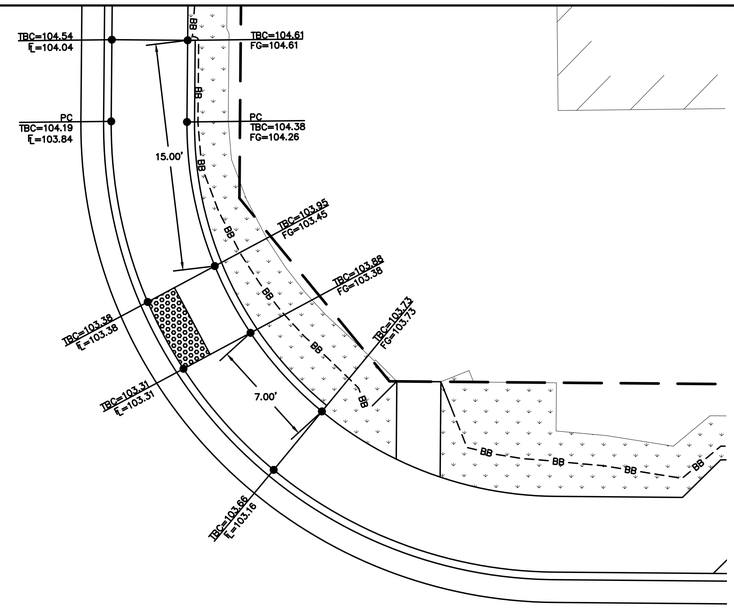
5 0 2.5 5

(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R5 CEMENT CONC. CURB RAMP TYPE PARALLEL A

SCALE: 1"=5'

FERNDALE TERRACE



GRAPHIC SCALE

5 0 2.5 5

(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R6 CEMENT CONC. CURB RAMP TYPE PARALLEL A

SCALE: 1"=5'

FERNDALE TERRACE

SUBMITTED WITH DESIGN PLAN

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DRAWN BY GS/LMH
CHECKED BY LP

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NO.	DATE	DESCRIPTION	BY

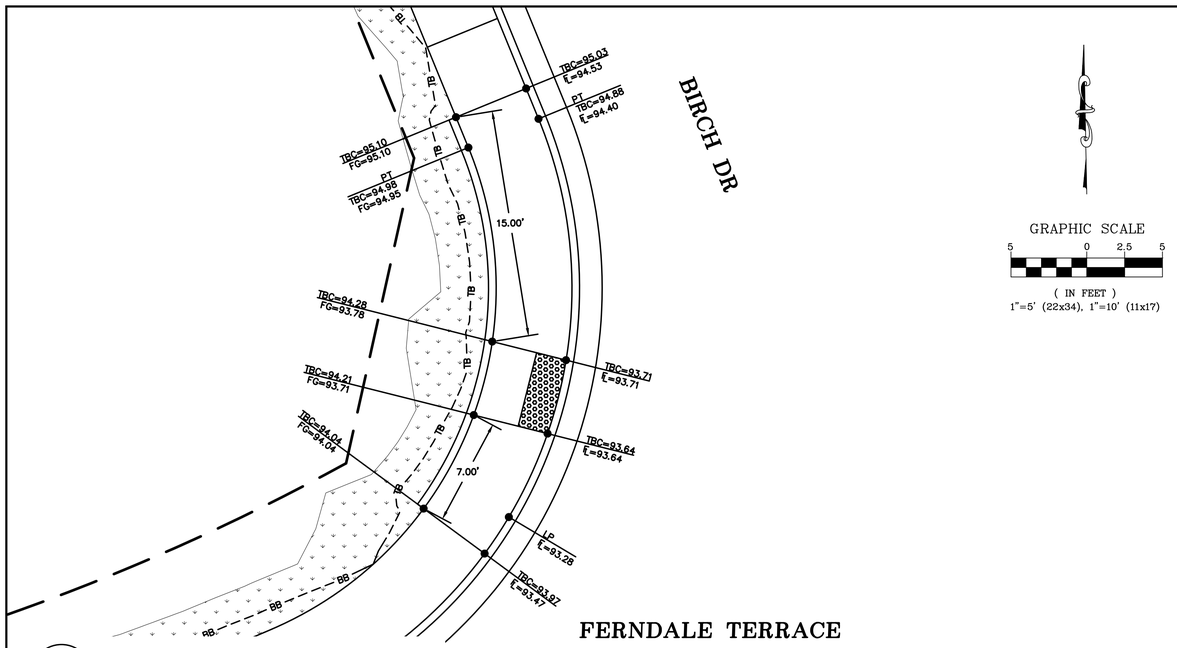
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
GRADE RAMPS - SEAMOUNT

DWG 18023 GRADE
DATE 8/27/2026
JOB# 18023
SCALE H: 1"=5' V: N/A
SHEET 53 of 85

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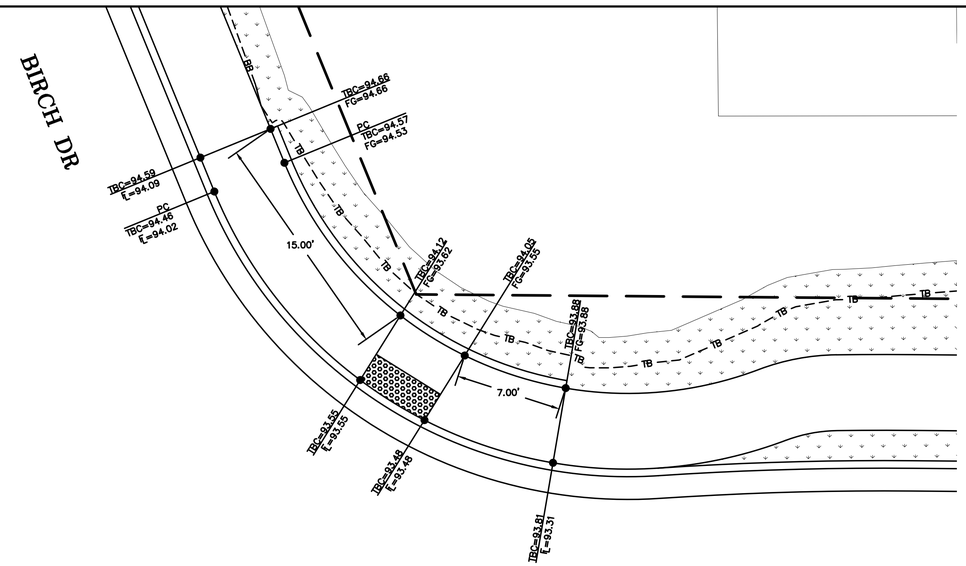
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GRAPHIC SCALE
5 0 2,5 5
(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R7 CEMENT CONC. CURB RAMP TYPE PARALLEL A

SCALE: 1"=5'

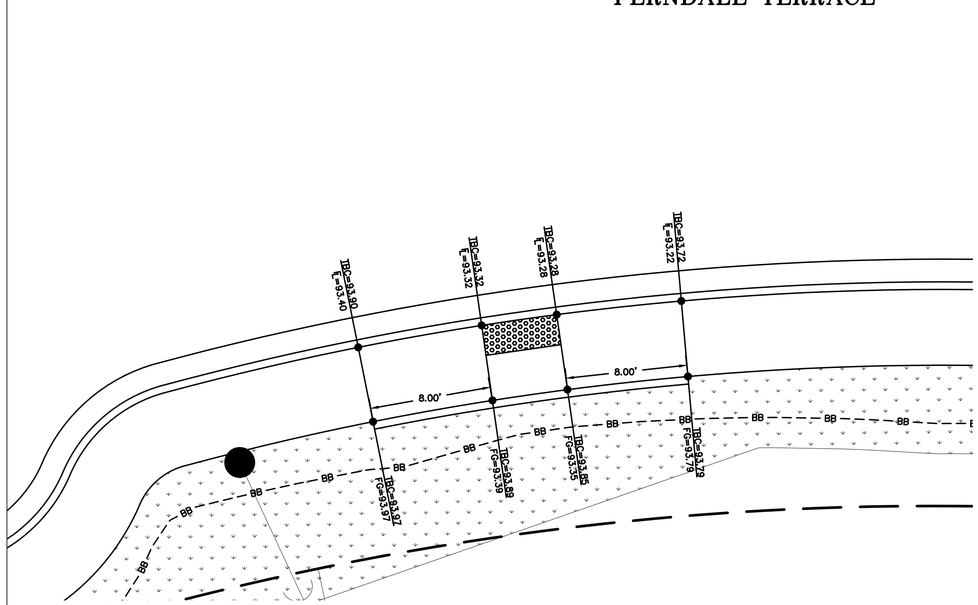


GRAPHIC SCALE
5 0 2,5 5
(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R8 CEMENT CONC. CURB RAMP TYPE PARALLEL A

SCALE: 1"=5'

FERNDALE TERRACE



GRAPHIC SCALE
5 0 2,5 5
(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R9 CEMENT CONC. CURB RAMP TYPE PARALLEL A

SCALE: 1"=5'

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

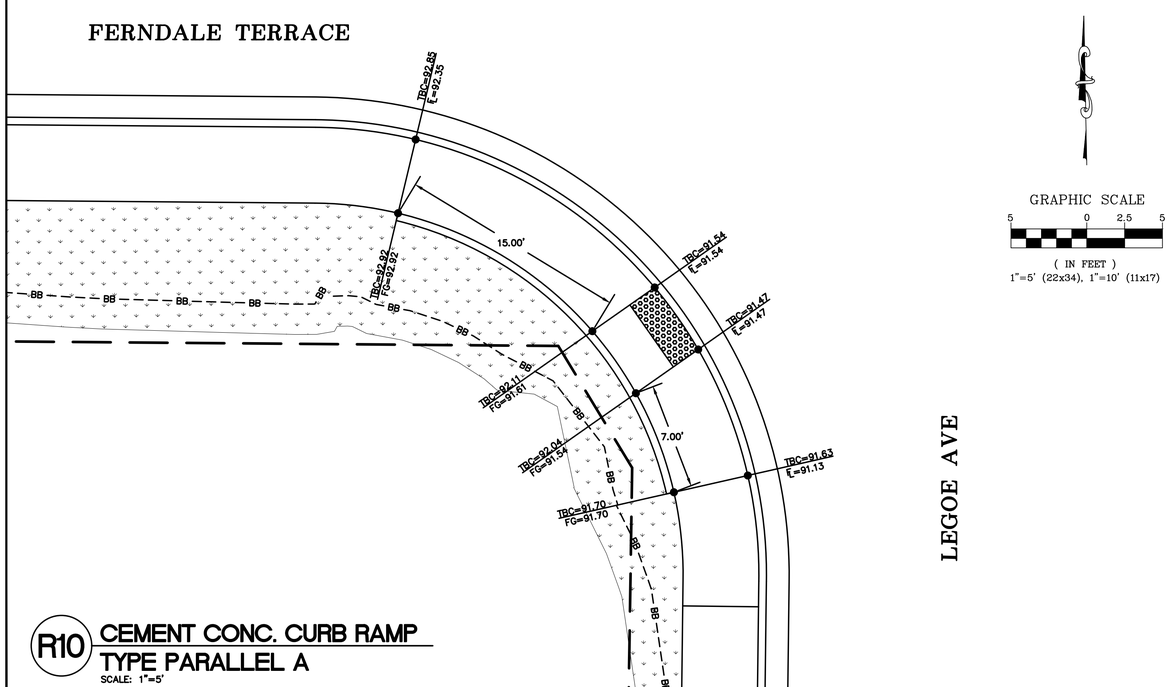
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2095 MAIN ST
FERNDALE, WA 98248

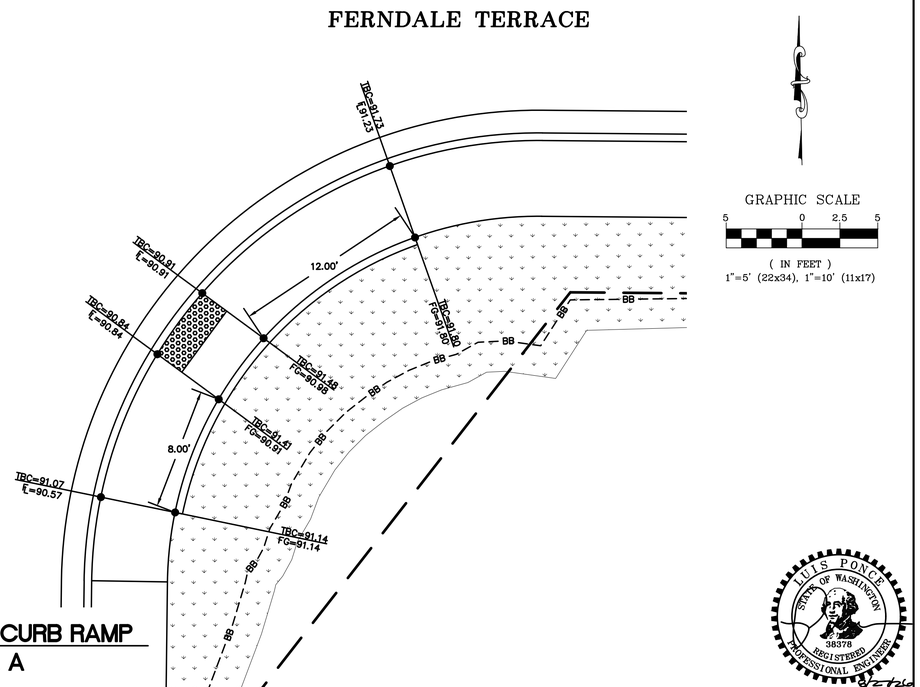
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
GRADE RAMPS - BIRCH

DWG 18023 GRADE			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=5'	V: N/A	SHEET 54 of 85

P:\Projects\18023\Civil 3D 2015\18023 GRADE.dwg, S4 GRADE RAMPS - BIRCH, 8/28/2026 12:57:58 PM, , AutoCAD PDF (General Documentation).pc3



R10 **CEMENT CONC. CURB RAMP TYPE PARALLEL A**
SCALE: 1"=5'



R11 **CEMENT CONC. CURB RAMP TYPE PARALLEL A**
SCALE: 1"=5'

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

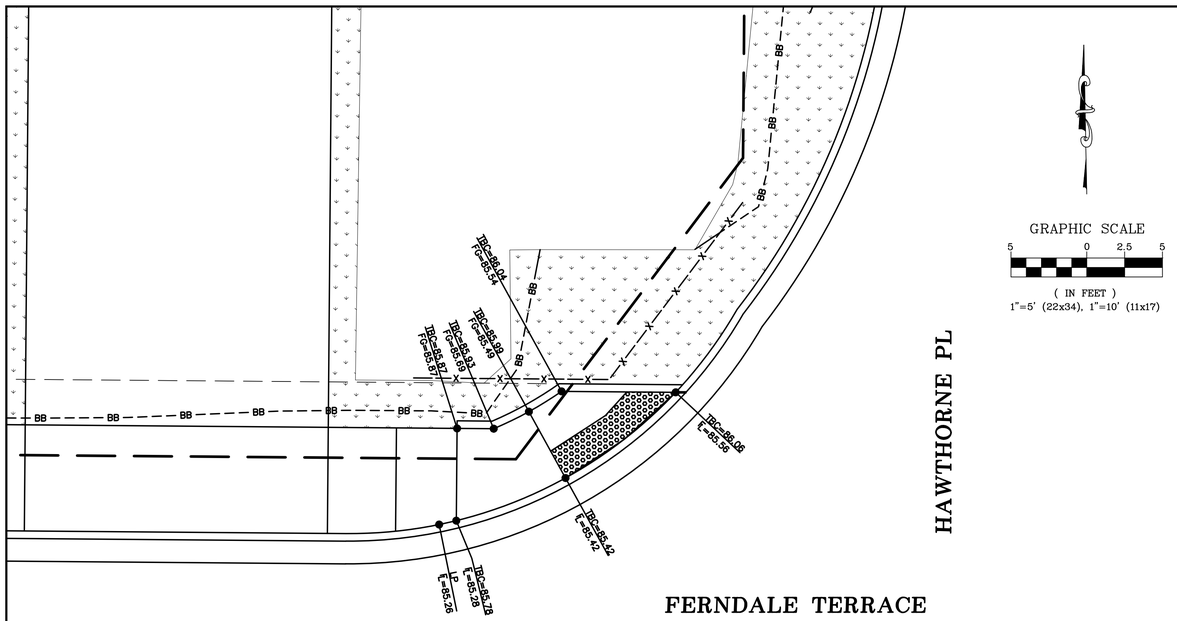
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
GRADE RAMPS - LEGOE

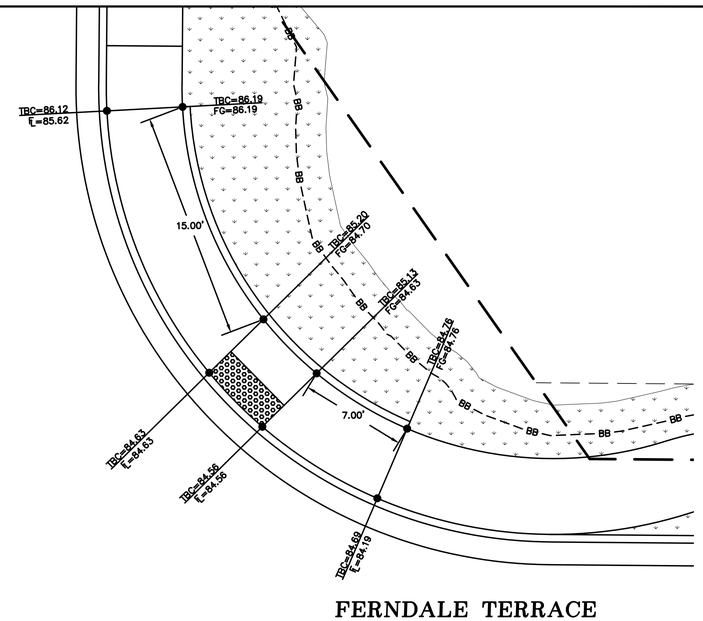
DWG 18023 GRADE			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=5'	V: N/A	SHEET 55 of 85

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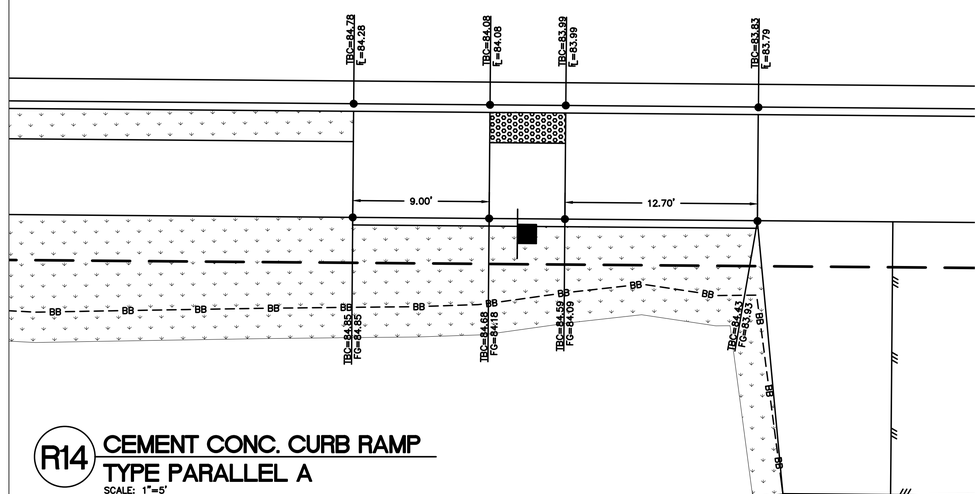
GRAPHIC SCALE
5 0 2.5 5
(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R12 CEMENT CONC. CURB RAMP TYPE PARALLEL B
SCALE: 1"=5'



GRAPHIC SCALE
5 0 2.5 5
(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R13 CEMENT CONC. CURB RAMP TYPE PARALLEL A
SCALE: 1"=5'



GRAPHIC SCALE
5 0 2.5 5
(IN FEET)
1"=5' (22x34), 1"=10' (11x17)

R14 CEMENT CONC. CURB RAMP TYPE PARALLEL A
SCALE: 1"=5'

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
DRAWN BY GS/LMH
CHECKED BY LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
GRADE RAMPS - HAWTHORNE

DWG 18023 GRADE
DATE 8/27/2026
JOB# 18023
SCALE H: 1"=5' V: N/A
SHEET 56 of 85

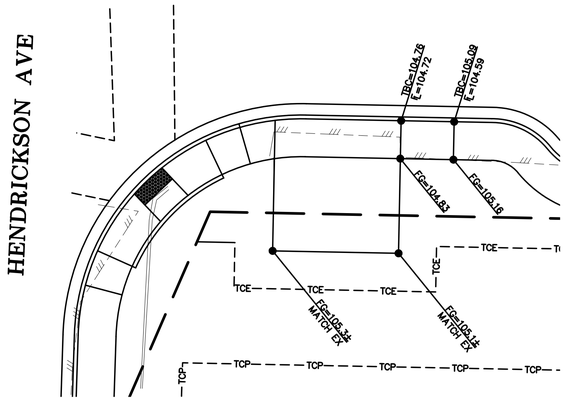
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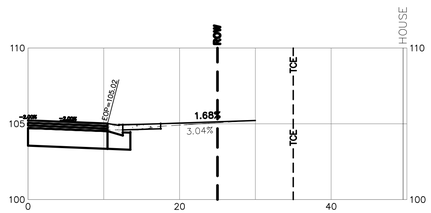
GRAPHIC SCALE

10 0 5 10

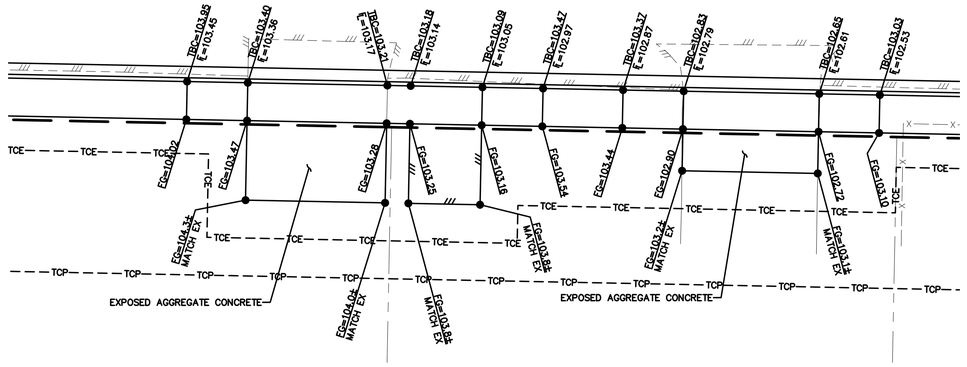
(IN FEET)
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1"=20' H, 1"=10' V (11x17)

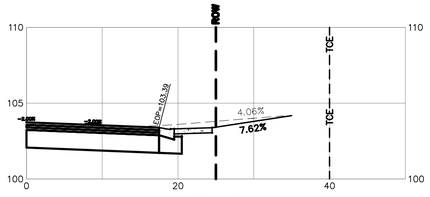
FERNDALE TERRACE



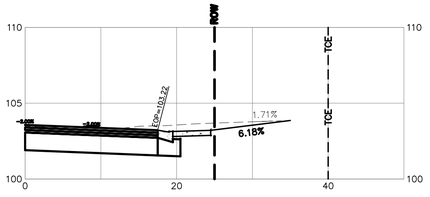


DRWY-01
STA 11+83 RT
2295 FERNDALE TERRACE

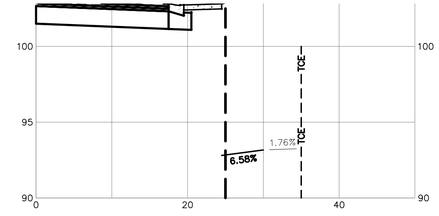




DRWY-02
STA 12+81 RT
2291 FERNDALE TERRACE



DRWY-03
STA 12+98 RT
2285 FERNDALE TERRACE



DRWY-04
STA 13+38 RT
2285 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
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Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 1, 2, 3, AND 4

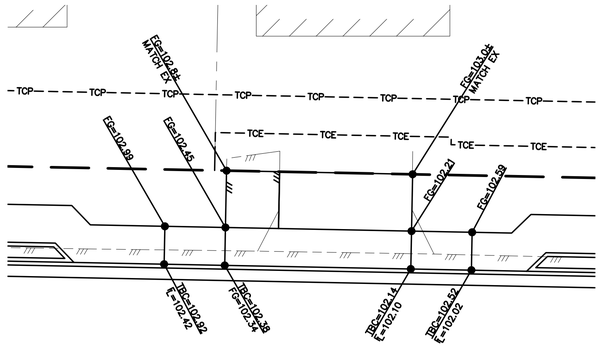
DWG 18023 DWY
JOB# 18023
SCALE H: 1"=10' V: 1"=5'
DATE 8/27/2026
SHEET 57 of 85

P:\Projects\18023\Civil\3D 2015\18023 DWY.dwg, ST DRIVEWAYS - 1 2 3 AND 4, 8/26/2026 1:00:40 PM, , AutoCAD PDF (General Documentation).pc3

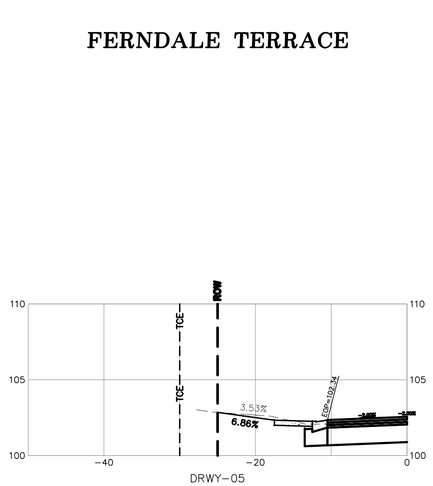
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

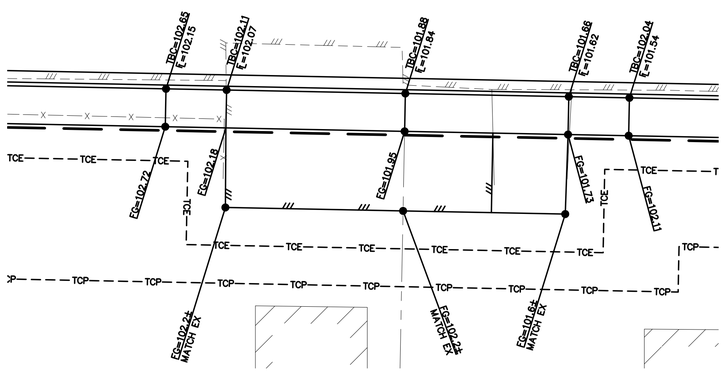


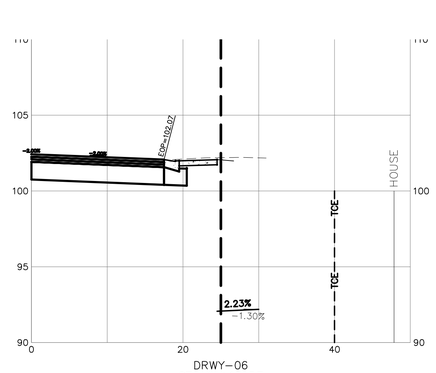
FERNDALE TERRACE



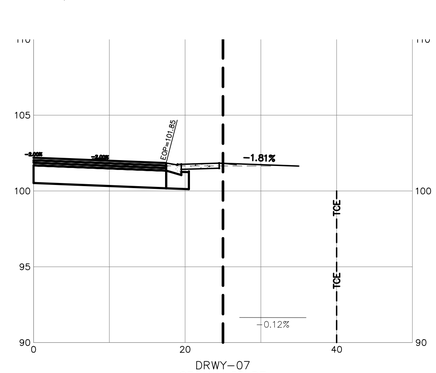
DRWY-05
STA 14+00 LT
2278 FERNDALE TERRACE

FERNDALE TERRACE





DRWY-06
STA 14+13 RT
2281 FERNDALE TERRACE



DRWY-07
STA 14+35 RT
2275 FERNDALE TERRACE

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/EV
DRAWN BY GS/EV
CHECKED BY LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 5, 6, AND 7

DWG 18023 DWY
DATE 8/27/2026
JOB# 18023
SCALE H: 1"=10' V: 1"=5'
SHEET 58 of 85

P:\Projects\18023\Civil 3D 2015\18023 DWY.dwg, 58 DRIVEWAYS - 5 6 AND 7, 8/26/2026 1:01:54 PM, AutoCAD PDF (General Documentation).pc3

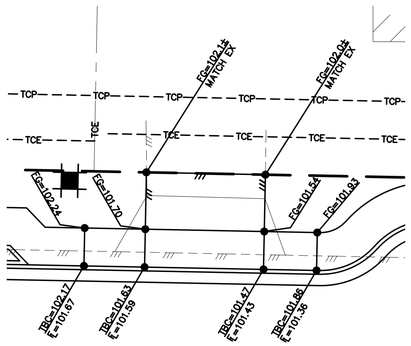
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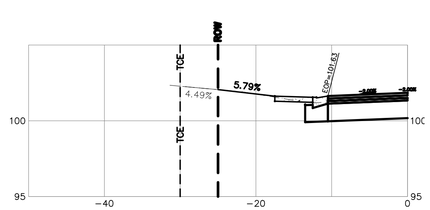
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-08
STA 14+71 LT
2274 FERNDALE TERRACE

GRAPHIC SCALE

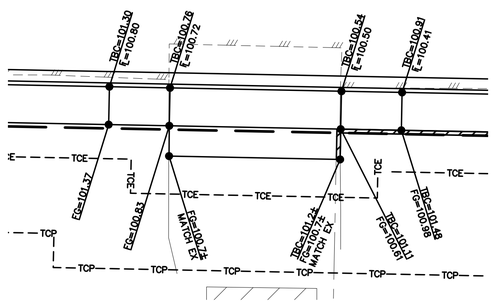
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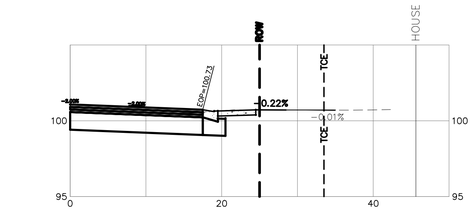
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-09
STA 15+47 RT
2271 FERNDALE TERRACE

GRAPHIC SCALE

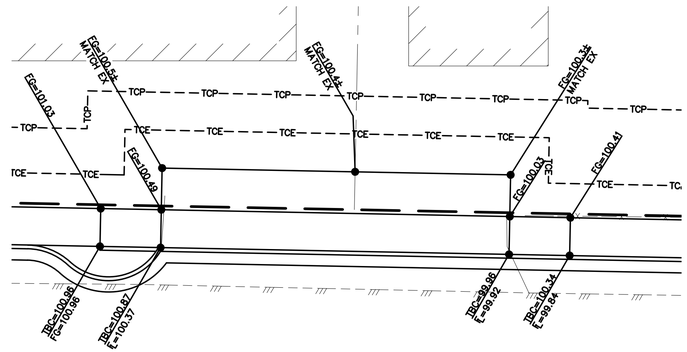
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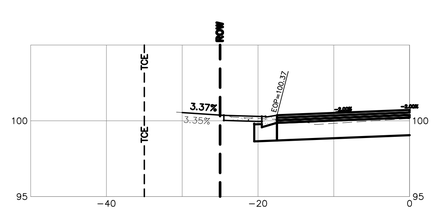
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1"=20' H, 1"=10' V (11x17)

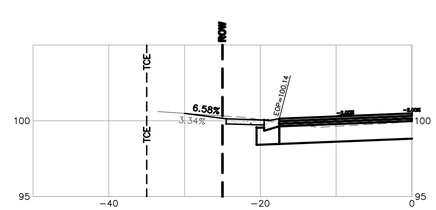
FERNDALE TERRACE



FERNDALE TERRACE



DRWY-10
STA 15+83 LT
2266 FERNDALE TERRACE



DRWY-11
STA 16+06 LT
2262 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT

HENDRICKSON AVENUE TO VISTA DRIVE

DRIVEWAYS - 8, 9, 10, AND 11

DWG 18023 DWY			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10' V: 1"=5'		SHEET 59 of 85

P:\Projects\18023\Civil 3D 2015\18023 DWY.dwg, 59 DRIVEWAYS - 8 9 10 AND 11, 8/28/2026 1:03:12 PM, AutoCAD PDF (General Documentation).pc3

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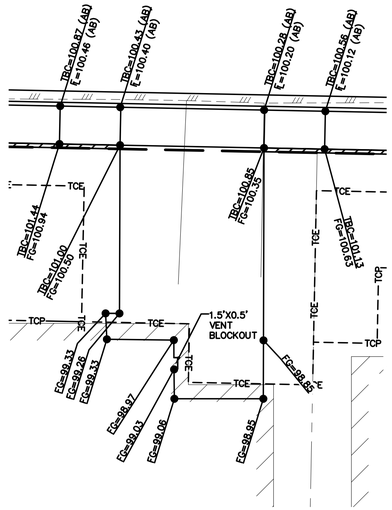
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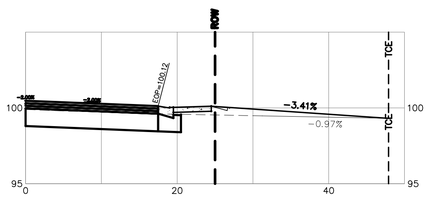
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1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY–12
STA 16+08 RT
2265 FERNDALE TERRACE

GRAPHIC SCALE

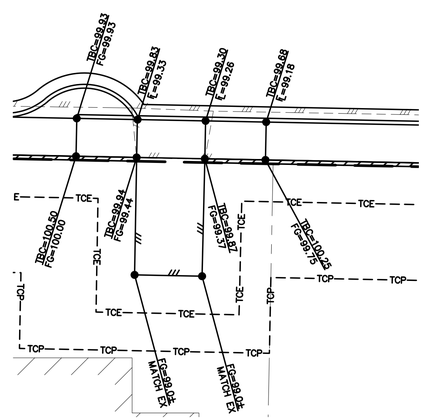
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(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY–13
STA 16+78 RT
2261 FERNDALE TERRACE

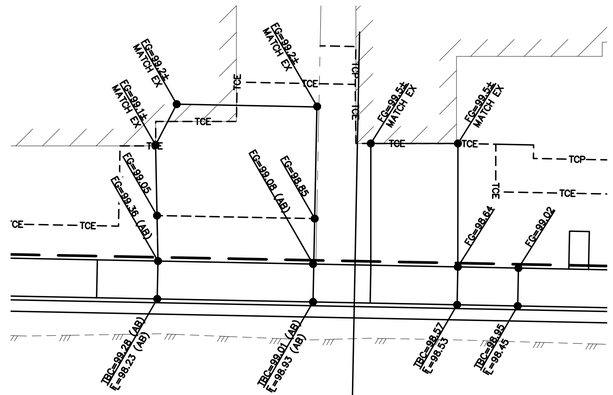
GRAPHIC SCALE

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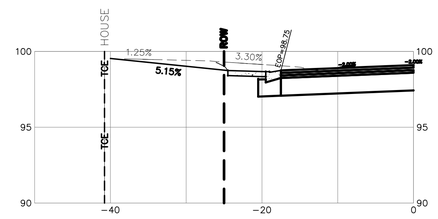
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1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY–15
STA 17+45 LT
2252 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 12, 13, 14, AND 15

DWG 18023 DWY		DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10' V: 1"=5'	SHEET 60 of 85

P:\Projects\18023\Civil 3D 2015\18023 DWY.dwg, 60 DRIVEWAYS - 12 13 14 AND 15, 8/26/2026 1:04:38 PM, , AutoCAD PDF (General Documentation).pc3

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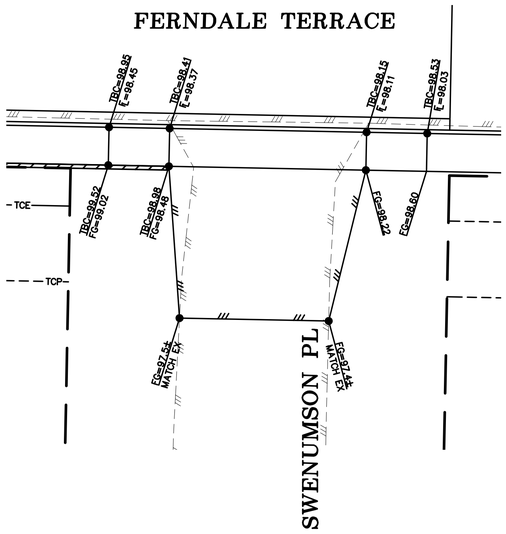
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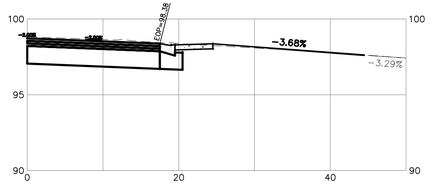
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-16
STA 17+82 RT
SWENUMSON PLACE

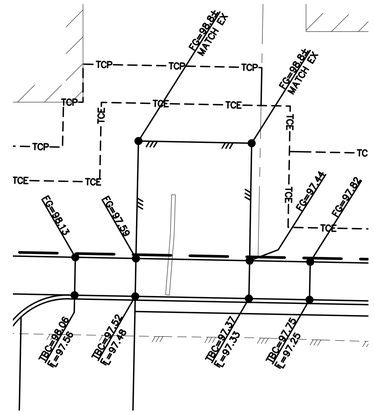
GRAPHIC SCALE

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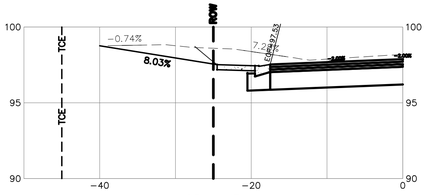
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-17
STA 18+67 LT
2244 FERNDALE TERRACE

GRAPHIC SCALE

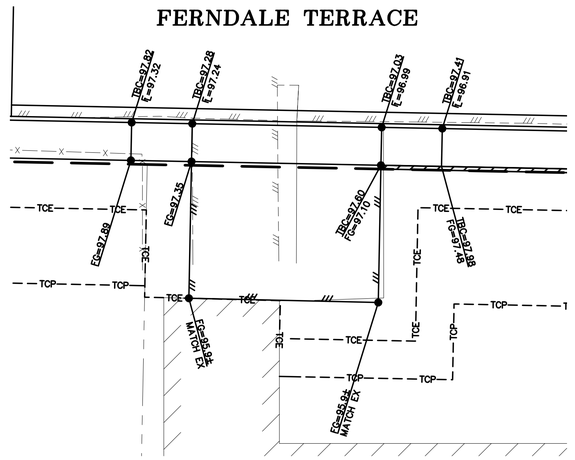
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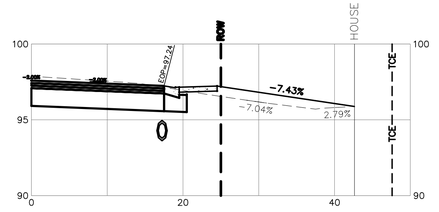
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-18
STA 18+96 RT
2241 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT

HENDRICKSON AVENUE TO VISTA DRIVE

DRIVEWAYS - 16, 17, AND 18

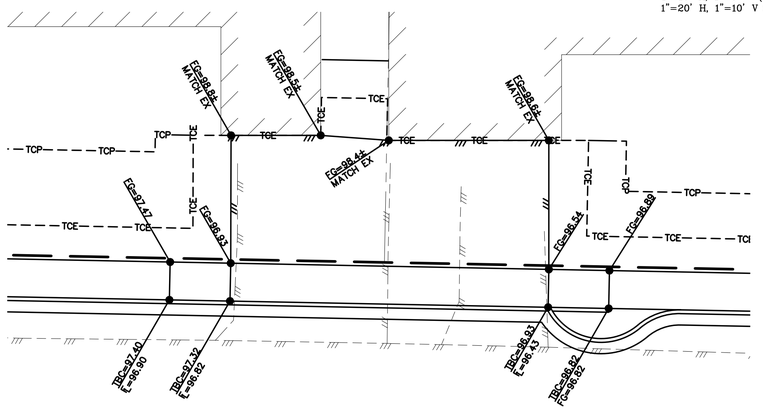
DWG 18023 DWY			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10' V: 1"=5'		SHEET 61 of 85

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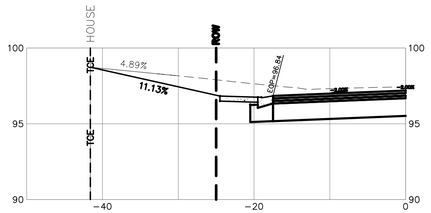
GRAPHIC SCALE

10 0 5 10

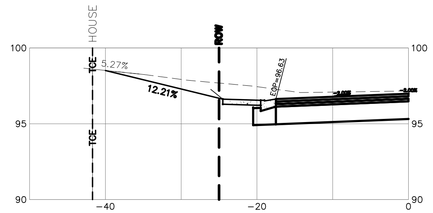
(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY−19
STA 19+36 LT
2240 FERNDALE TERRACE



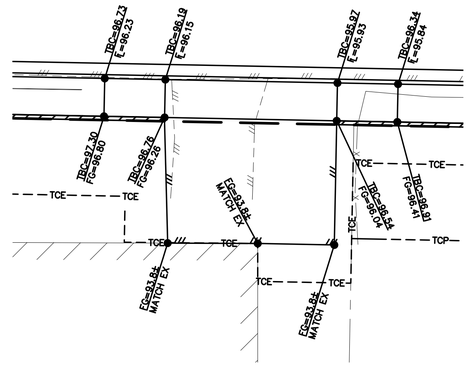
DRWY−20
STA 19+57 LT
2234 FERNDALE TERRACE

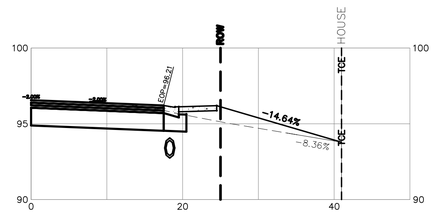
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





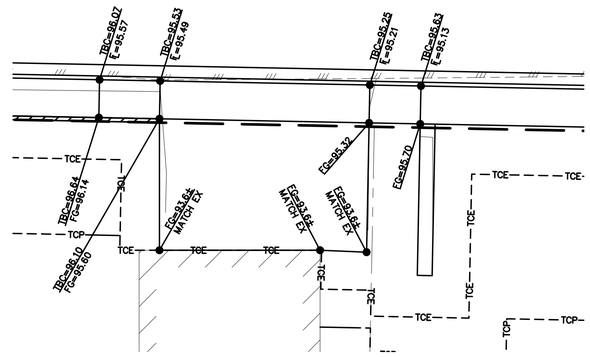
DRWY−21
STA 19+99 RT
2235 FERNDALE TERRACE

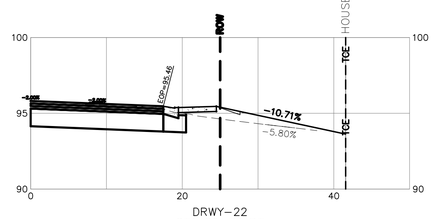
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY−22
STA 20+74 RT
FERNDALE TERRACE



SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 19, 20, 21, AND 22

DWG 18023 DWY			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10'	V: 1"=5'	SHEET 62 of 85

P:\Projects\18023\Civil 3D 2015\18023 DWY.dwg, 02 DRIVEWAYS - 19 20 21 AND 22, 8/28/2026 1:07:29 PM, AutoCAD PDF (General Documentation).pc3

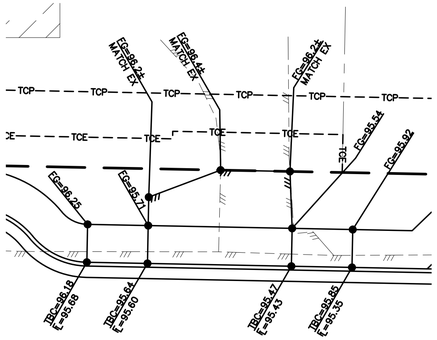
GRAPHIC SCALE

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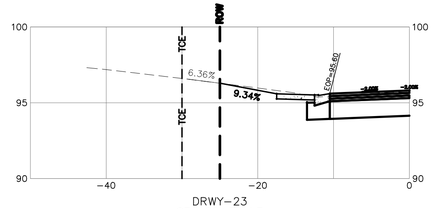
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-23
STA 20+74 LT
2230 FERNDALE TERRACE

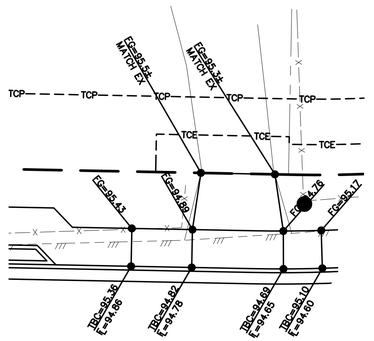
GRAPHIC SCALE

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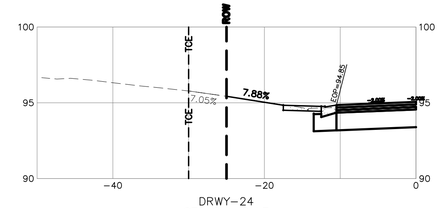
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-24
STA 21+49 LT
2226 FERNDALE TERRACE

GRAPHIC SCALE

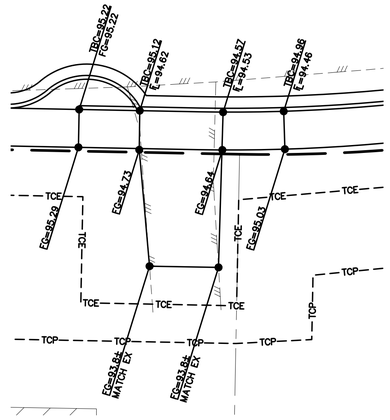
10 0 5 10

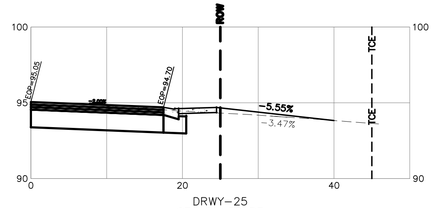
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-25
STA 21+50 RT
2225 FERNDALE TERRACE

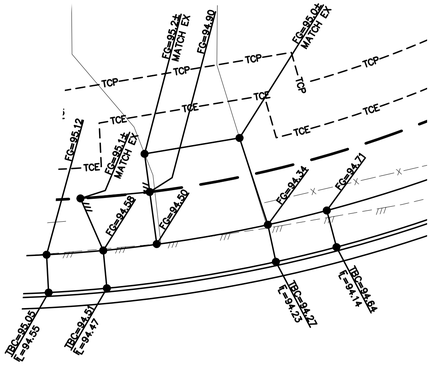
GRAPHIC SCALE

10 0 5 10

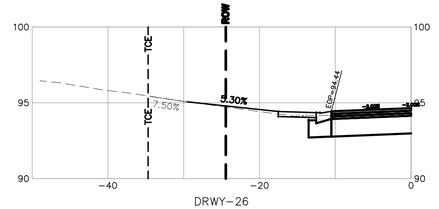
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-26
STA 21+90 LT
2224 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT

HENDRICKSON AVENUE TO VISTA DRIVE

DRIVEWAYS - 23, 24, 25, AND 26

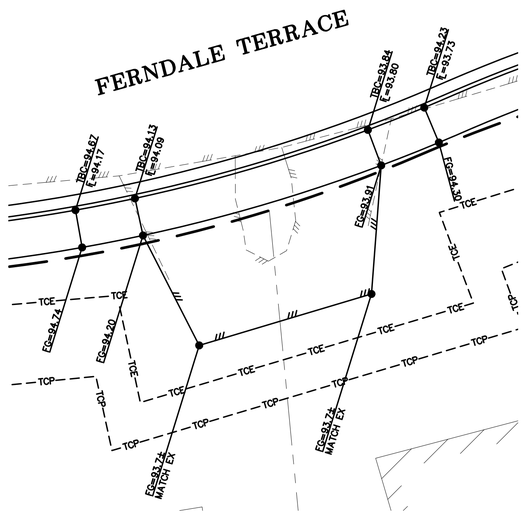
DWG 18023 DWY			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10' V: 1"=5'		SHEET 63 of 85

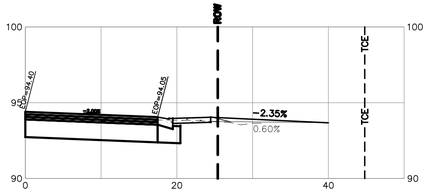
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GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



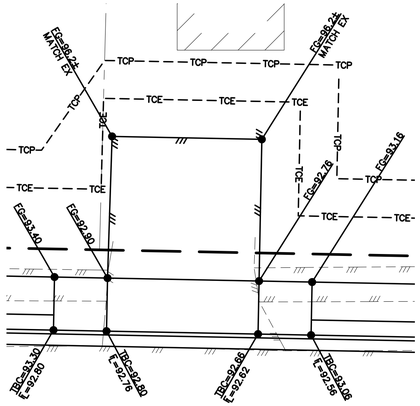


DRWY-27
STA 22+15 RT
2219/2213 FERNDALE TERRACE

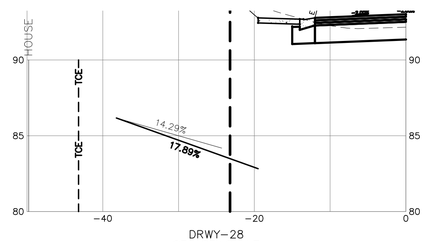
GRAPHIC SCALE

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(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE

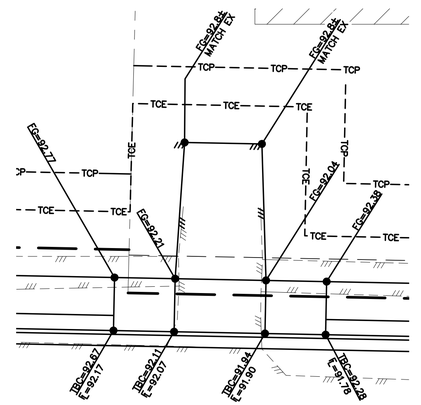


DRWY-28
STA 23+84 LT
2202 FERNDALE TERRACE

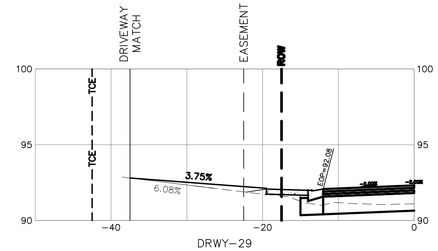
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-29
STA 24+55 LT
2198 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/EV
DRAWN BY GS/EV
CHECKED BY LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

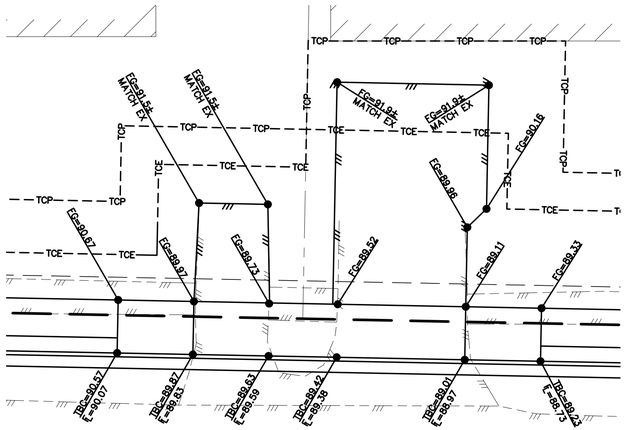
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 27, 28, AND 29

DWG 18023 DWY
DATE 8/27/2026
JOB# 18023
SCALE H: 1"=10' V: 1"=5'
SHEET 64 of 85

P:\Projects\18023\Cnd 30-2015\18022 DWY.dwg, 64 DRIVEWAYS - 27 28 AND 29, 8/28/2026 1:10:25 PM, , AutoCAD PDF (General Documentation).pc3

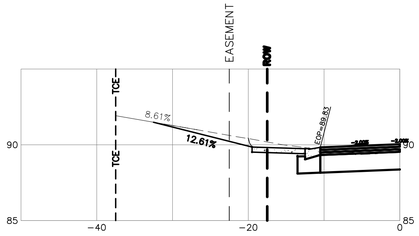


FERNDALE TERRACE

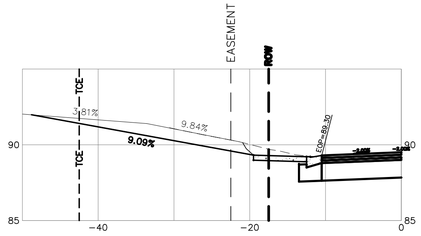
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

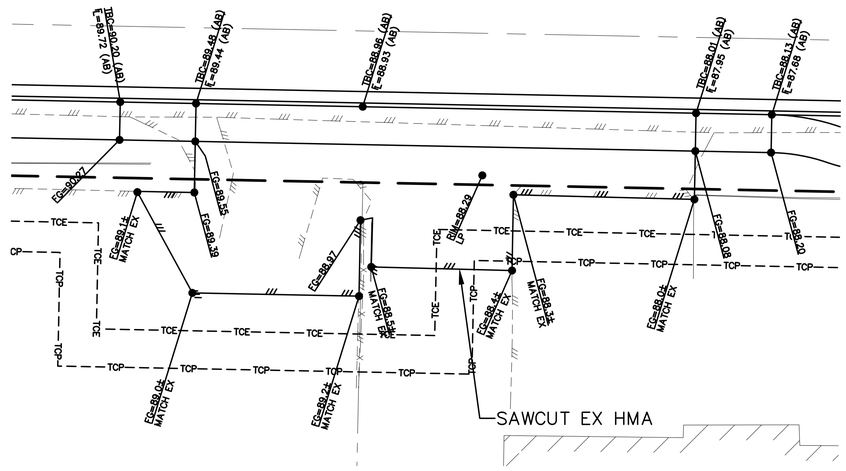


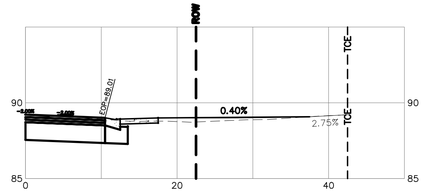
DRWY−30
STA 25+68 LT
2190 FERNDALE TERRACE



DRWY−31
STA 25+90 LT
2184 FERNDALE TERRACE

FERNDALE TERRACE





DRWY−32
STA 26+02 RT
2185 FERNDALE TERRACE

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 30, 31, 32, AND 33

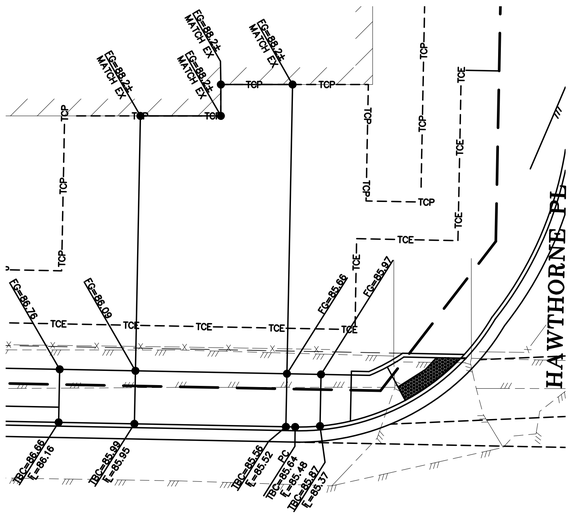
DWG 18023 DWY
JOB# 18023
SCALE H: 1"=10' V: 1"=5'
DATE 8/27/2026
SHEET 65 of 85

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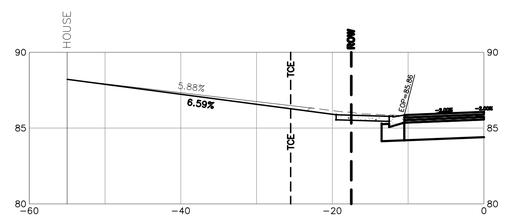
GRAPHIC SCALE

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(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



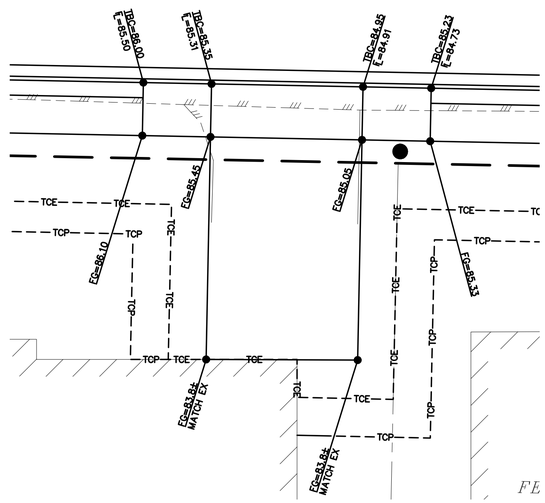
DRWY-34
STA 27+38 LT
2178 FERNDALE TERRACE

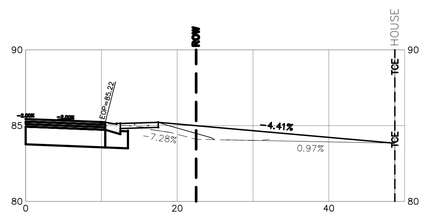
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





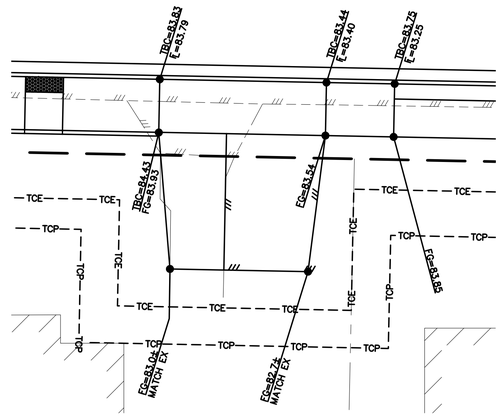
DRWY-35
STA 27+69 RT
2177 FERNDALE TERRACE

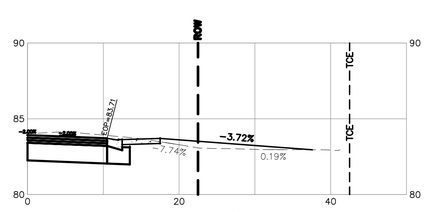
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE



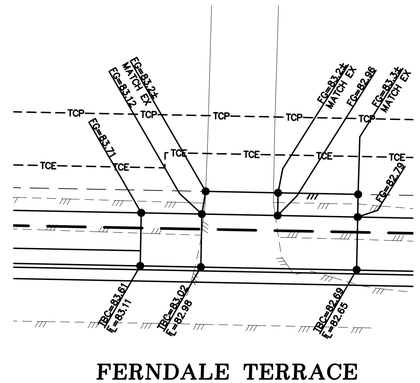


DRWY-36
STA 28+49 RT
2169 FERNDALE TERRACE

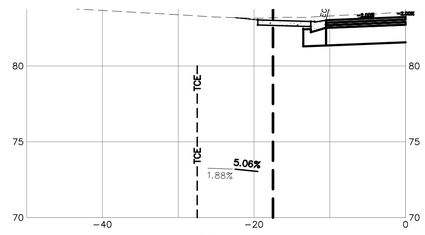
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-37
STA 28+90 LT
2168 FERNDALE TERRACE

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 34, 35, 36, AND 37

DWG 18023 DWY			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10' V: 1"=5'		SHEET 66 of 85

STATE OF WASHINGTON LUIS PONCE 38378 REGISTERED PROFESSIONAL ENGINEER

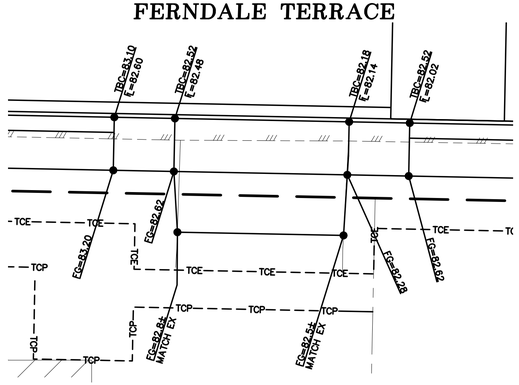
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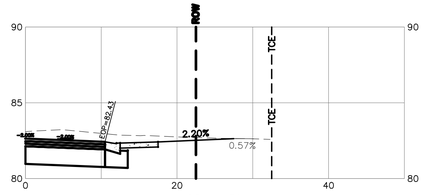
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE



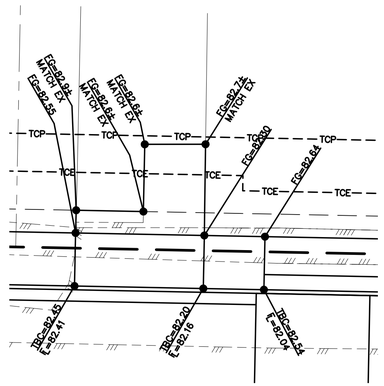


DRWY-38
STA 29+28 RT
2165 FERNDALE TERRACE

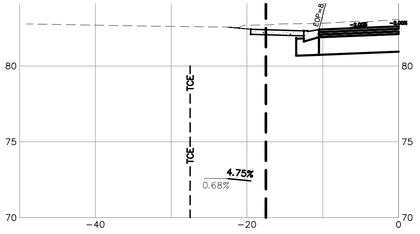
GRAPHIC SCALE

10 0 5 10

(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



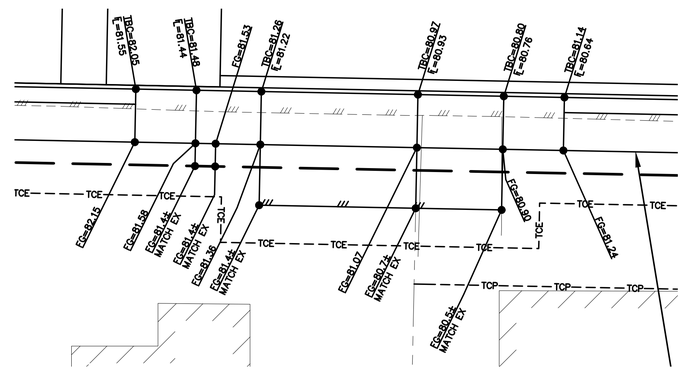
DRWY-39
STA 29+30 LT
2160 FERNDALE TERRACE

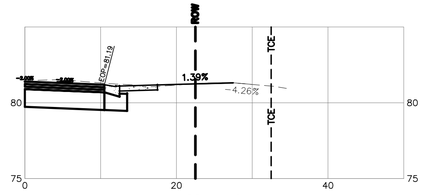
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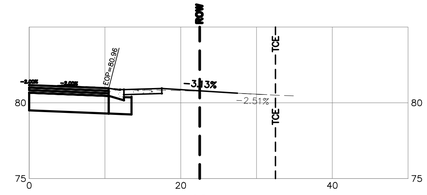
(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-40
STA 30+13 RT
2159 FERNDALE TERRACE



DRWY-41
STA 30+29 RT
2153 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/EV
DRAWN BY GS/EV
CHECKED BY LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 38, 39, 40, AND 41

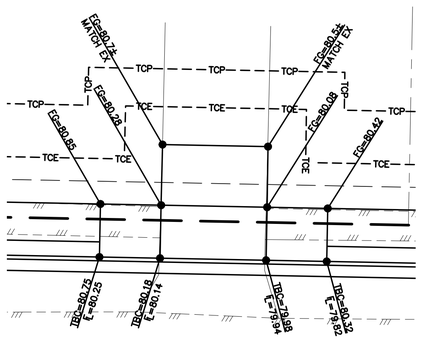
DWG 18023 DWY
JOB# 18023
SCALE H: 1"=10' V: 1"=5'
DATE 8/27/2026
SHEET 67 of 85

P:\Projects\18023\Civil 3D 2015\18023 DWY.dwg, 67 DRIVEWAYS - 38, 39, 40 AND 41, 8/26/2026 1:14:29 PM, AutoCAD PDF (General Documentation).pc3

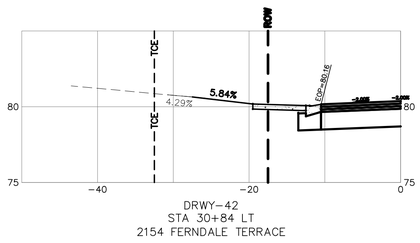
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(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



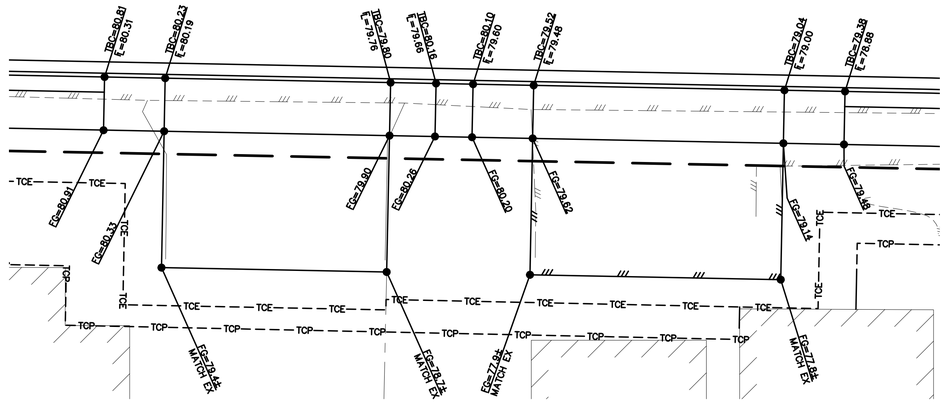
DRWY-42
STA 30+84 LT
2154 FERNDALE TERRACE

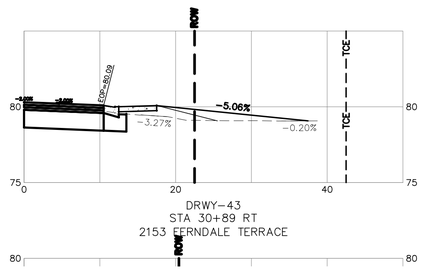
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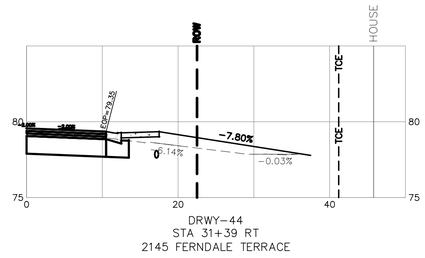
(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-43
STA 30+89 RT
2153 FERNDALE TERRACE



DRWY-44
STA 31+39 RT
2145 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 42, 43, AND 44

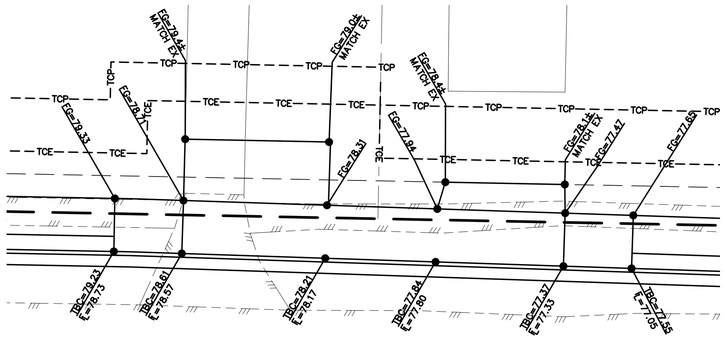
DWG 18023 DWY			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10'	V: 1"=5'	SHEET 68 of 85

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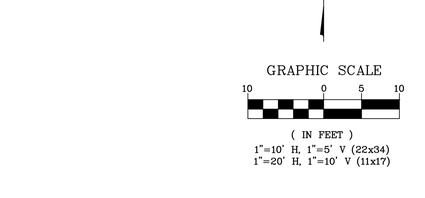
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(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE

DRWY−45
STA 31+91 LT
2146 FERNDALE TERRACE



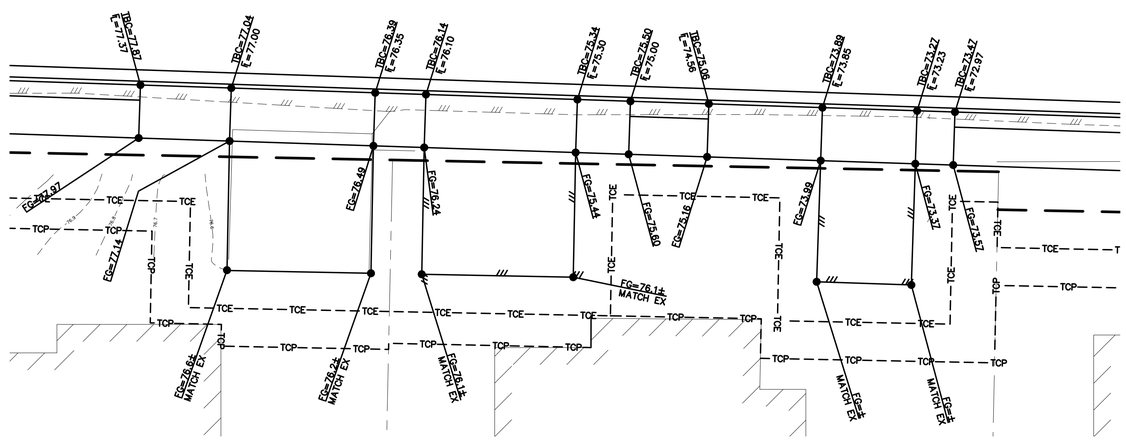
DRWY−46
STA 32+24 LT
2136 FERNDALE TERRACE

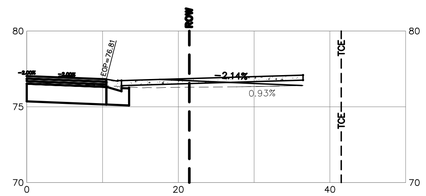
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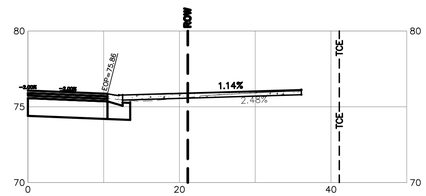
(IN FEET)
1"=10' H, 1"=5' V (22x34)
1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE

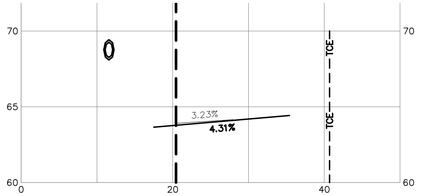




DRWY−47
STA 32+52 RT
2139 FERNDALE TERRACE



DRWY−49
STA 32+78 RT
2133 FERNDALE TERRACE



DRWY−51
STA 33+26 RT
2133 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/EV
DRAWN BY	GS/EV
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 45, 46, 47, 49, AND 51

DWG 18023 DWY			DATE 8/27/2026
JOB# 18023	SCALE H: 1"=10'	V: 1"=5'	SHEET 69 of 85

P:\Projects\18023\Civil 3D 2015\18023 DWY.dwg, 69 DRIVEWAYS - 45 46 47 49 AND 51, 8/28/2026 1:17:10 PM, AutoCAD PDF (General Documentation).pc3

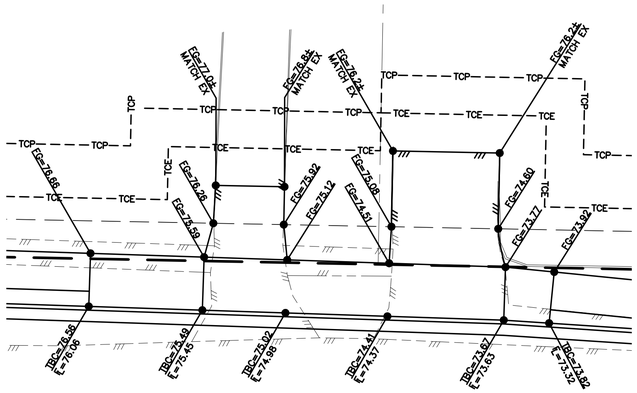
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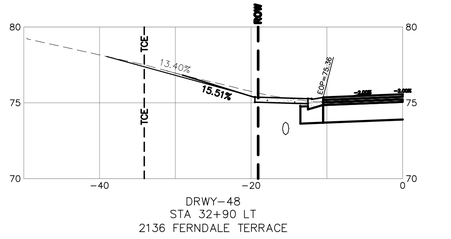
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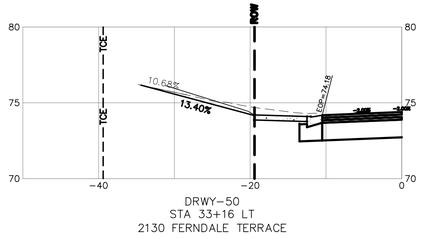
1"=20' H, 1"=10' V (11x17)



FERNDALE TERRACE



DRWY-48
STA 32+90 LT
2136 FERNDALE TERRACE



DRWY-50
STA 33+16 LT
2130 FERNDALE TERRACE

GRAPHIC SCALE

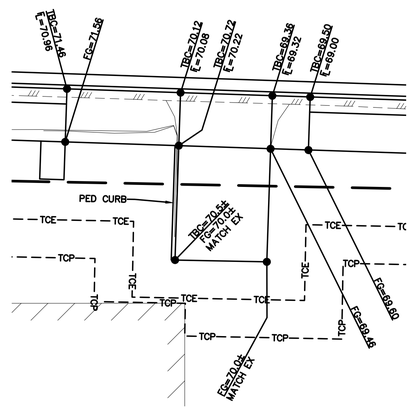
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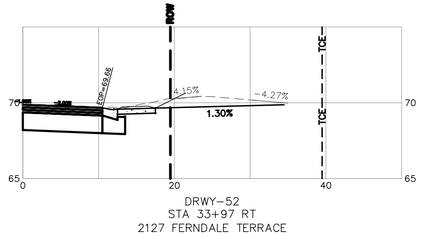
(IN FEET)

1"=10' H, 1"=5' V (22x34)

1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-52
STA 33+97 RT
2127 FERNDALE TERRACE

GRAPHIC SCALE

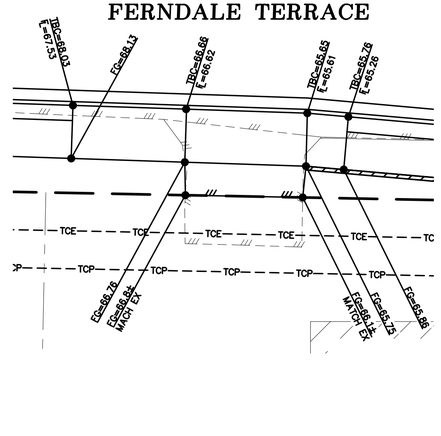
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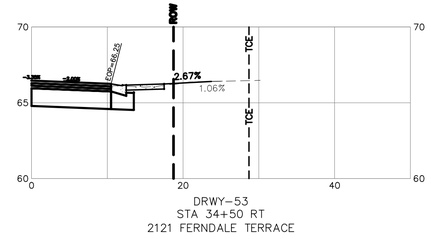
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1"=20' H, 1"=10' V (11x17)

FERNDALE TERRACE





DRWY-53
STA 34+50 RT
2121 FERNDALE TERRACE

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
GS/EV	GS/EV	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

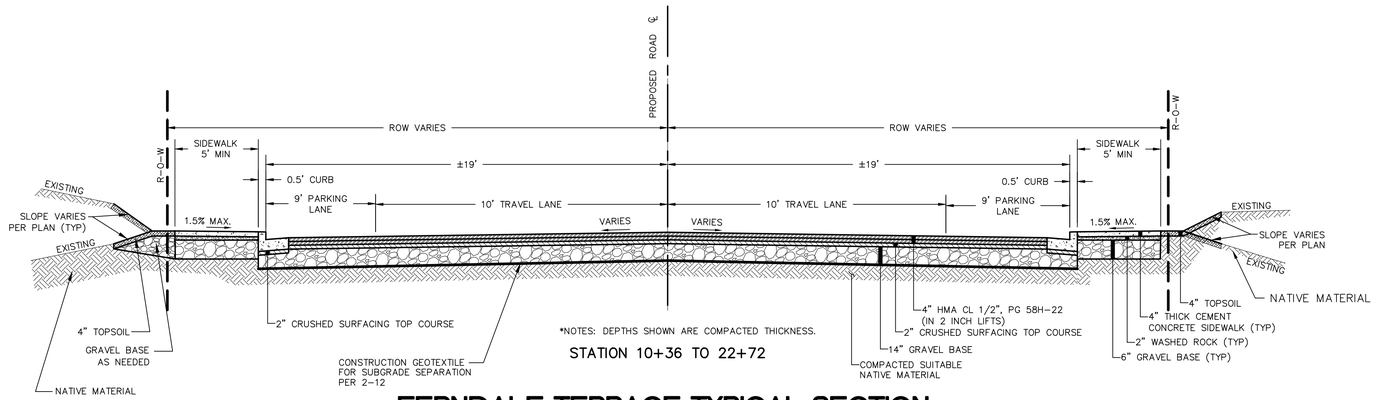
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
DRIVEWAYS - 48, 50, 52, AND 53

DWG 18023 DWY
DATE 8/27/2026
JOB# 18023
SCALE H: 1"=10' V: 1"=5'
SHEET 70 of 85

P:\Projects\18023\Civil 3D 2015\18023.DWY dwg, 70 DRIVEWAYS - 48 50 52 AND 53, 8/26/2026 1:18:45 PM, , AutoCAD PDF (General Documentation).pc3

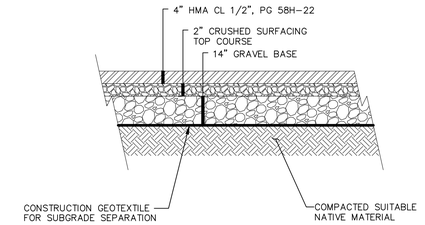


*NOTES: DEPTHS SHOWN ARE COMPACTED THICKNESS.

STATION 10+36 TO 22+72

FERNDALE TERRACE TYPICAL SECTION

NTS

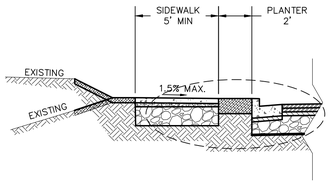


*NOTES: DEPTHS SHOWN ARE COMPACTED THICKNESS.

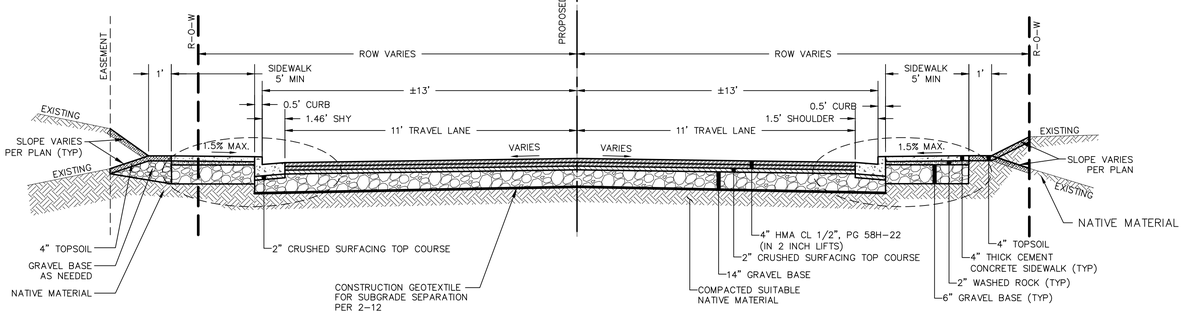
SECTION FOR HENDRICKSON AVE, SEAMOUNT DR, SWENUMSON PL, BIRCH DR, LEGOE AVE, HAWTHORNE PL

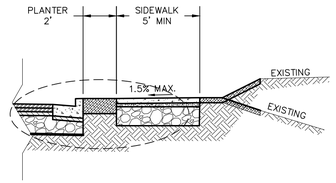
SIDE ROAD HMA SECTION

NTS



PLANTER
STATION 23+25 LT TO 33+52 LT





PLANTER
STATION 25+00 RT TO 35+10 RT

*NOTES: DEPTHS SHOWN ARE COMPACTED THICKNESS.

STATION 22+72 TO 35+10

SEE DETAILS LT AND RT FOR PLANTER STRIP LOCATIONS

FERNDALE TERRACE TYPICAL SECTION

NTS

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
TYPICAL SECTIONS

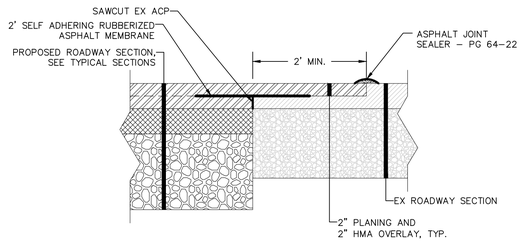
DWG 18023 DETAILS			DATE 8/27/2026
JOB# 18023	SCALE H: N/A	V: N/A	SHEET 71 of 85

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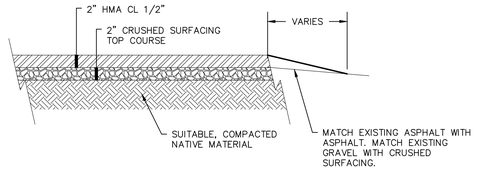


TEXTURED CONCRETE PAVEMENT PATTERN SHALL BE BUTTERFIELD COLOR, PENNSYLVANIA AVENUE BRICK RUNNING BOND (PRODUCT NUMBER BST6605) OR APPROVED EQUIVALENT. CONCRETE COLOR SHALL BE GRAY OR APPROVED EQUIVALENT.

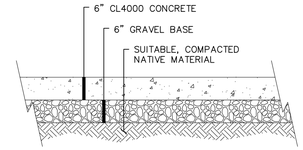
TEXTURED CONCRETE PAVEMENT
NTS



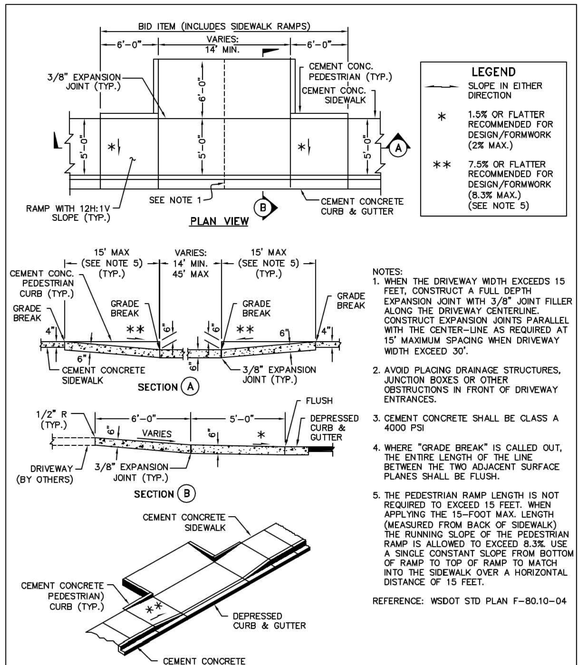
ROADWAY PAVEMENT MATCH SECTION
NTS



HMA MATCH DETAIL AND COMMERCIAL HMA DRIVEWAY SECTION
NTS

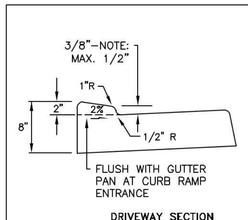


TYPICAL CONCRETE DRIVEWAY SECTION
NTS



NOVEMBER 25, 2016

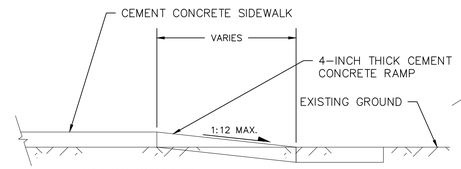
CITY OF FERNDALE WASHINGTON	APPROVED Public Works Director 8/11/17 Date	CEMENT CONCRETE DRIVEWAY ENTRANCE STANDARD DETAIL R-6 NOT TO SCALE



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.

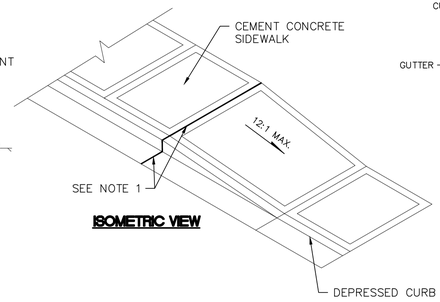
NOVEMBER 25, 2016

CITY OF FERNDALE WASHINGTON	APPROVED Public Works Director 8/11/17 Date	CURB AND GUTTER INSTALLATION STANDARD DETAIL R-9 NOT TO SCALE



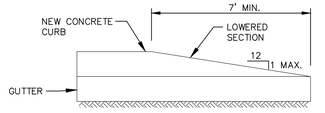
ELEVATION VIEW

NOTES
1. 3/8" EXPANSION JOINT.
2. SIDEWALK RAMPS SHALL NOT BE POURED INTEGRAL WITH SIDEWALK AND SHALL BE ISOLATED BY EXPANSION JOINT MATERIAL ON ALL SIDES, EXCEPT AT END OF RAMP ADJACENT TO ROADWAY.



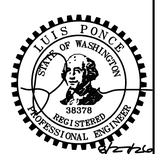
ISOMETRIC VIEW

SIDEWALK END RAMP
NTS



NOTE:
CONCRETE CURB END SECTION SHALL BE USED AT ALL LOCATIONS WHERE NEW CURB DOES NOT MEET EXISTING CURB, AT SIDEWALK TRANSITION SECTIONS AND/OR AS DIRECTED IN THE FIELD.

CONCRETE CURB END SECTION
NTS



SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

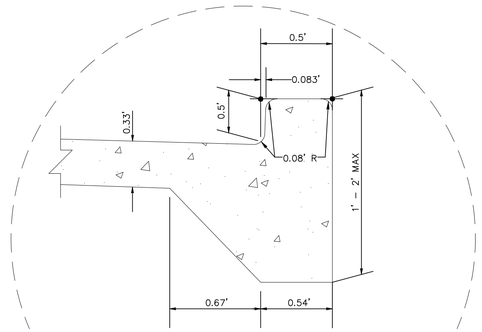
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
MISC DETAILS

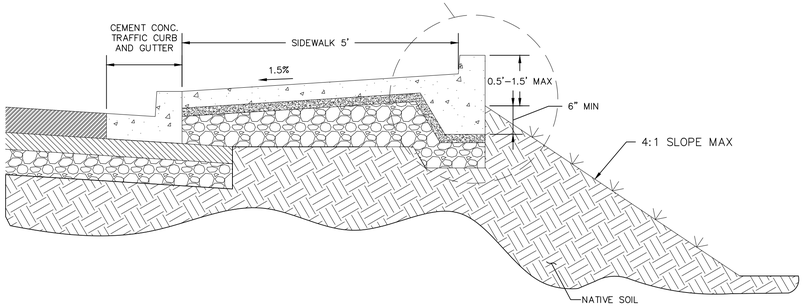
DWG 18023 DETAILS			DATE 8/27/2026
JOB# 18023	SCALE H: N/A	V: N/A	SHEET 72 of 85

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____" RAISED EDGE MONOLITHIC CEMENT CONCRETE CURB AND SIDEWALK

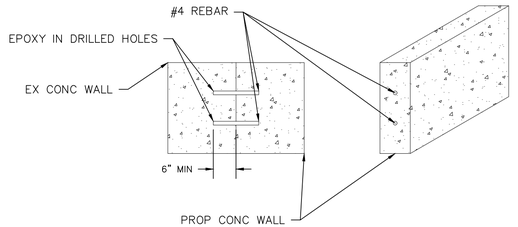
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TYPICAL SECTION W/ MONOLITHIC CURB, RAISED SIDEWALK EDGE AND FILL

NTS

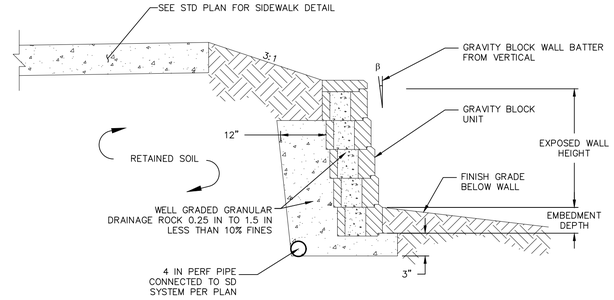
WALL 1 STA 15+58.20 TO 17+70.70
WALL 2 STA 19+08.55 TO 20+59.29



EX WALL CONNECTION

NTS

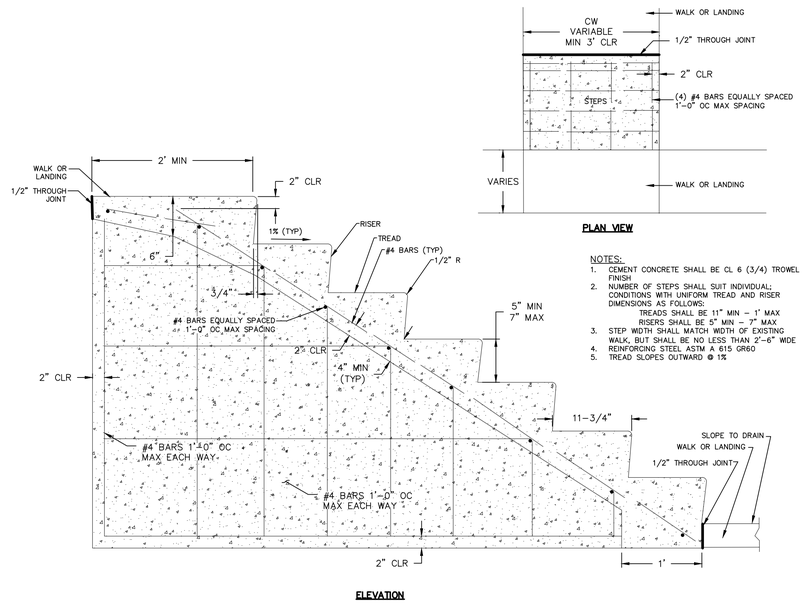
WALL 1 STA 15+58.20



GRAVITY BLOCK WALL

NTS

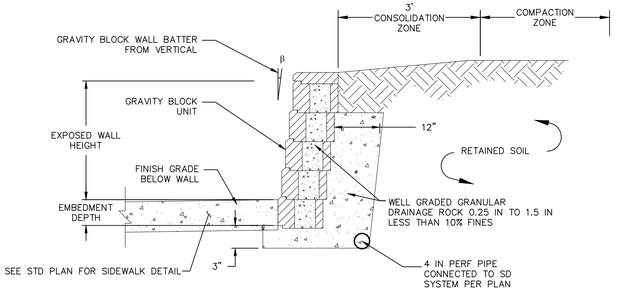
WALL 3 STA 24+90.19 TO 25+40.40



NOTES:
1. CEMENT CONCRETE SHALL BE CL 6 (3/4) TROWEL FINISH
2. NUMBER OF STEPS SHALL SUIT INDIVIDUAL CONDITIONS WITH UNIFORM TREAD AND RISER DIMENSIONS AS FOLLOWS:
   TREADS SHALL BE 11" MIN – 1' MAX
   RISERS SHALL BE 5" MIN – 7" MAX
3. STEP WIDTH SHALL MATCH WIDTH OF EXISTING WALK, BUT SHALL BE NO LESS THAN 2'–6" WIDE
4. REINFORCING STEEL ASTM A 615 GR60
5. TREAD SLOPES OUTWARD @ 1%

CEMENT CONCRETE STEP DETAIL W/ CHEEK WALL

NTS



GRAVITY BLOCK WALL

NTS

WALL 4 STA 34+57.99 TO 35+10.53

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
GS/LMH	GS/LMH	LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

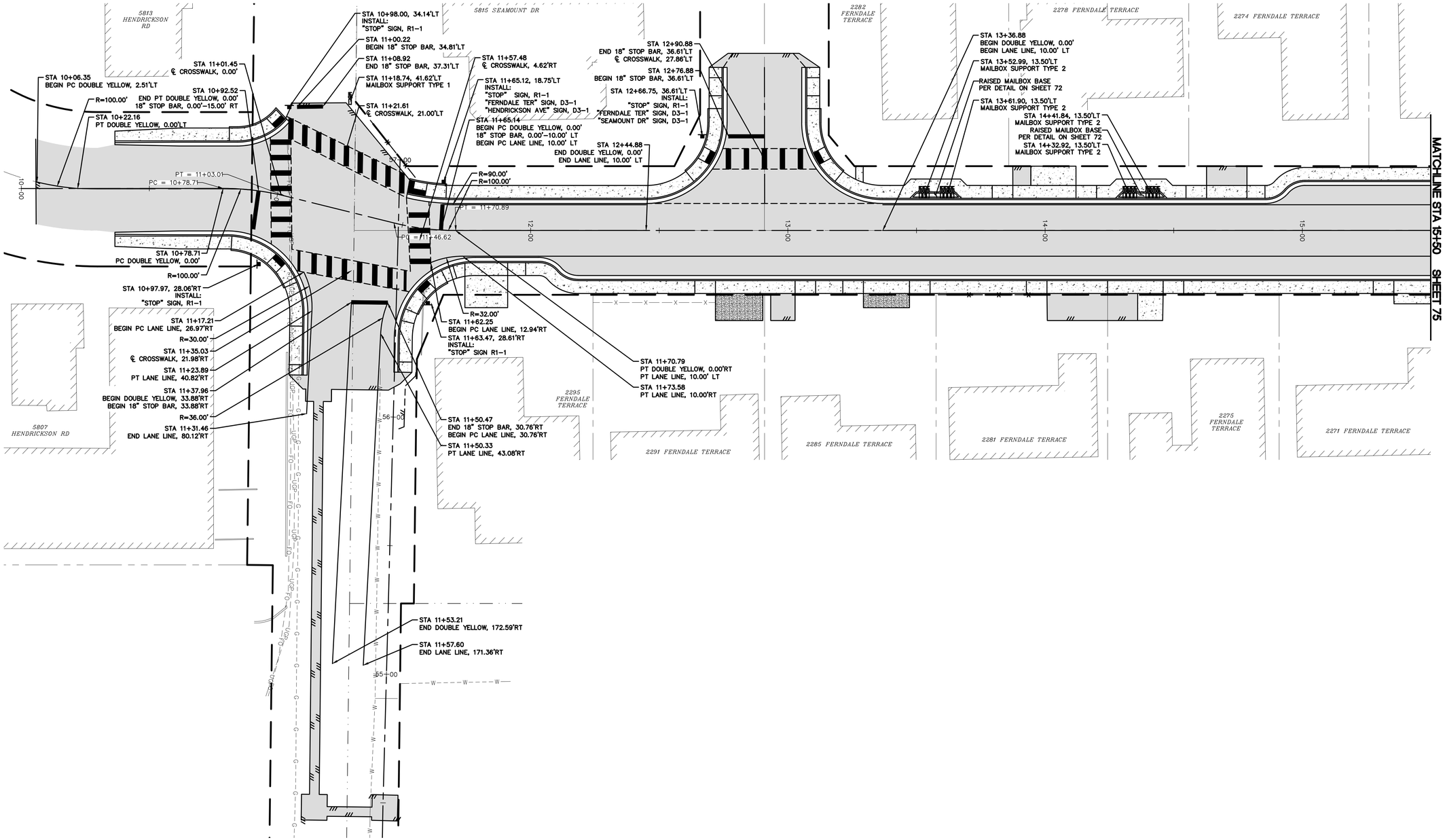
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
WALL DETAILS

DWG 18023 DETAILS
DATE 8/27/2026
JOB# 18023
SCALE H: N/A V: N/A
SHEET 73 of 85

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GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' (22x34), 1"=40' (11x17)

STATE OF WASHINGTON
LUIS PONCE
38378
REGISTERED
PROFESSIONAL ENGINEER

8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
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2095 MAIN ST
FERNDALE, WA 98248

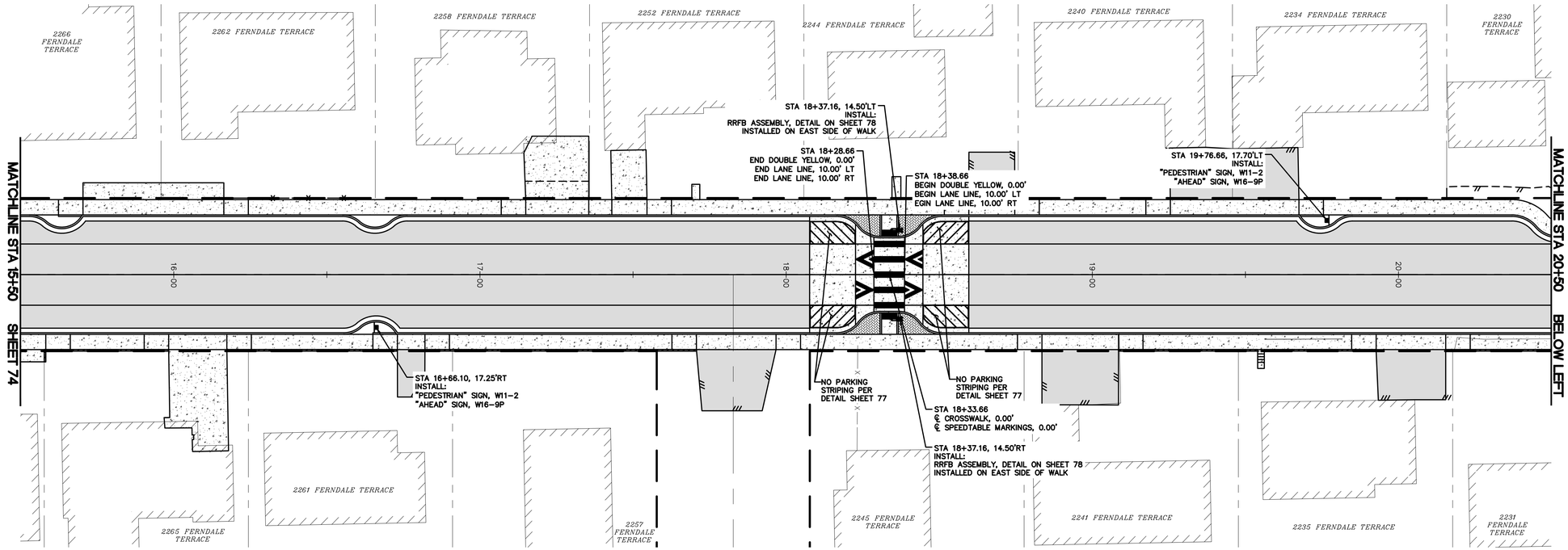
FERNDALE TERRACE PROJECT

HENDRICKSON AVENUE TO VISTA DRIVE

CHANNELIZATION PLAN - STA 10+00 TO 15+50

DWG 18023 CHAN			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: N/A		SHEET 74 of 85

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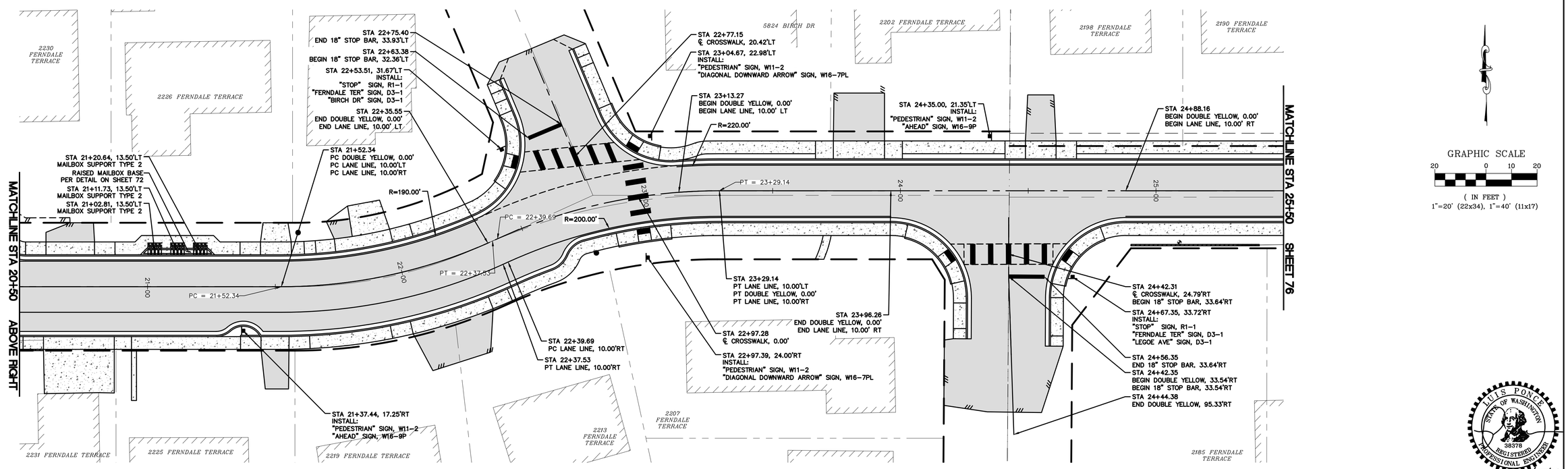


GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' (22x34), 1"=40' (11x17)



GRAPHIC SCALE

20 0 10 20

(IN FEET)

1"=20' (22x34), 1"=40' (11x17)

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

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Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

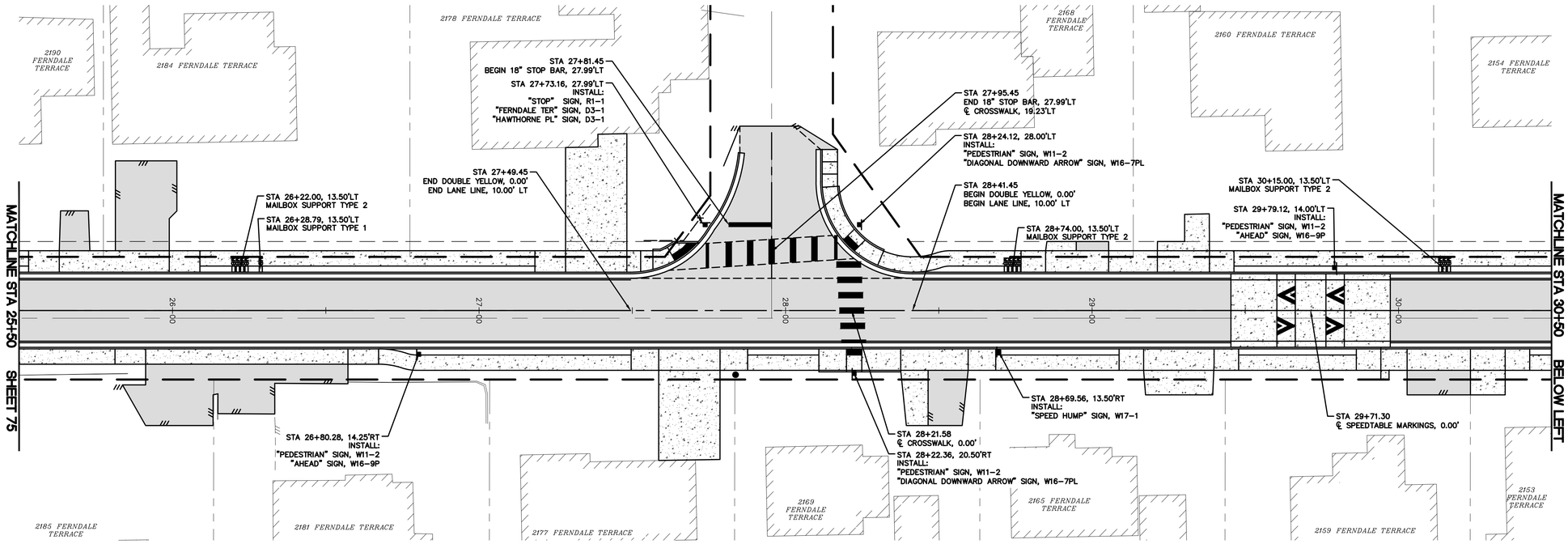
FERNDALE TERRACE PROJECT

HENDRICKSON AVENUE TO VISTA DRIVE

CHANNELIZATION PLAN - STA 15+50 TO 25+50

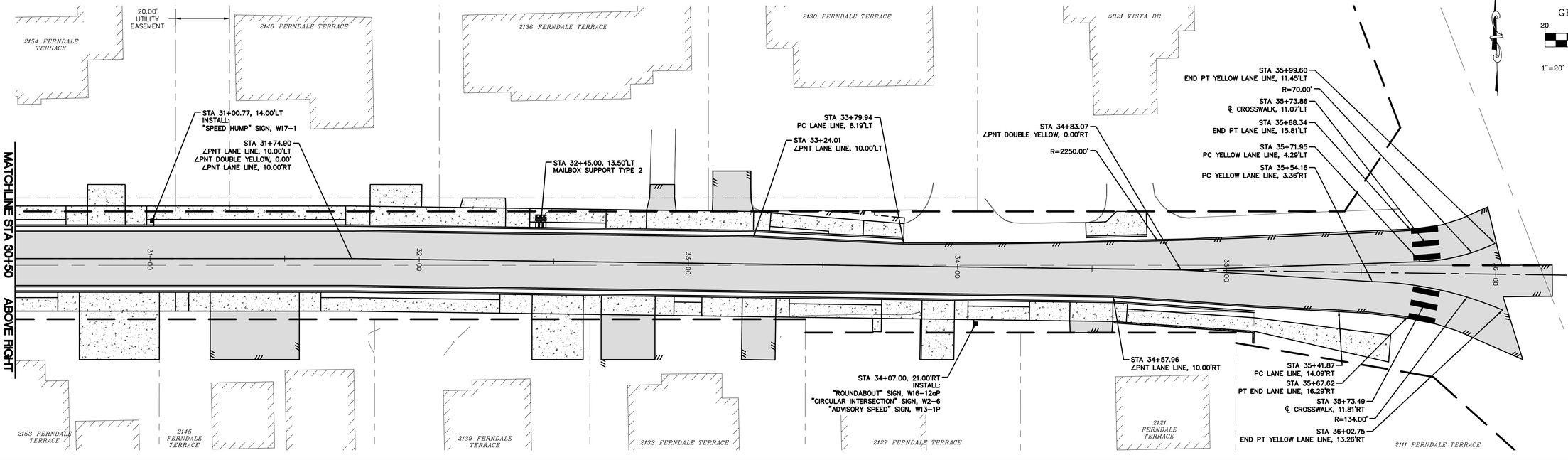
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JOB# 18023	SCALE H: 1" = 20' V: N/A		SHEET 75 of 85

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GRAPHIC SCALE
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(IN FEET)
1"=20' (22x34), 1"=40' (11x17)

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1"=20' (22x34), 1"=40' (11x17)



GRAPHIC SCALE
20 0 10 20
(IN FEET)
1"=20' (22x34), 1"=40' (11x17)

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
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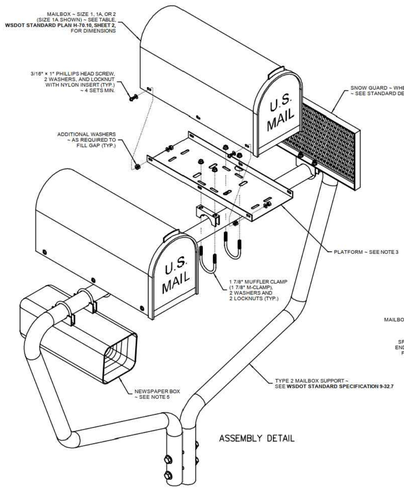
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
CHANNELIZATION PLAN - STA 25+50 TO 36+50

DWG	DATE
18023 CHAN	8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: N/A
	SHEET 76 of 85

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NOTES

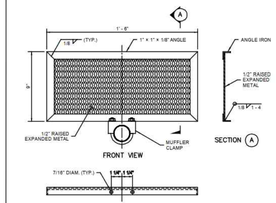
1. The anchoring system shall meet NCHRP 350 crash test criteria. Use a socket and wedge system or the anchoring system supplied by or recommended by the Type 2 Support manufacturer.
2. A maximum of five mailboxes may be installed on a Type 2 Support.
3. The Platform design shown in this plan is detailed in the PLATFORM DETAIL, **WSDOT Standard Plan H.70.10, Sheet 2**. The design features slots that accomodate several types of mailbox supports; only those slots necessary for assembling the type being installed are required. An adjustable platform may be used in lieu of this platform design. Adjustable platforms must fit the 1 7/8" M-Clamp.
4. Center the mailbox on the platform to ensure space for the mailbox door to open and to allow space for installing the fasteners (see ALIGNMENT DETAIL). Spacing of mailbox mounting holes varies among manufacturers. Attachment of the mailbox to the platform may require drilling additional holes through the mailbox to fit the platform.
5. Attach a newspaper box to a Type 2 Support with two 1 7/8" Muffler Clamps spaced 4" apart. Field drill 7/16" holes in the newspaper box to fit. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.

NOVEMBER 25, 2016

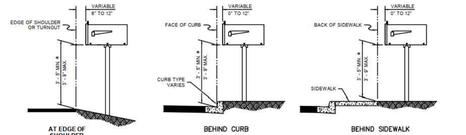
APPROVED

Public Works Director — 8/11/17 Date

MAILBOX SUPPORT TYPE 2
STANDARD DETAIL M-3
NOT TO SCALE



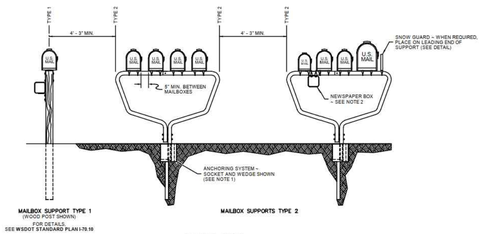
SNOW GUARD DETAIL



MAILBOX PLACEMENT SECTIONS

NOTES

1. The anchoring system shall meet NCHRP 350 crash test criteria. Use a socket and wedge system or the anchoring system supplied by or recommended by the Type 2 Support manufacturer.
2. Attach a newspaper box to a Type 2 Support with two 1 7/8" Muffler Clamps spaced 4" apart. Field drill 7/16" holes in the newspaper box to fit. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.



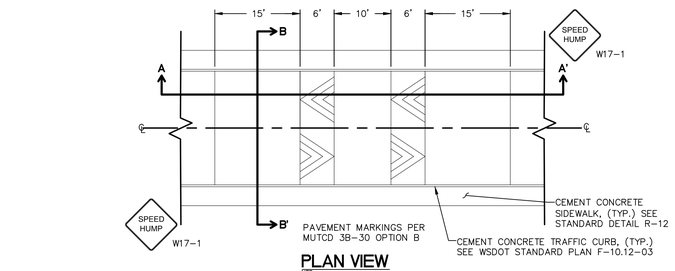
SPACING DETAIL

NOVEMBER 25, 2016

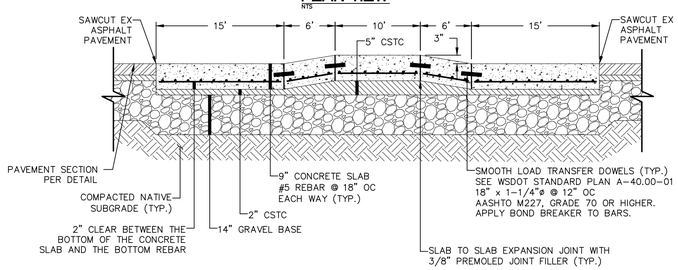
APPROVED

Public Works Director — 8/11/17 Date

MAILBOX SUPPORT TYPE 2 INSTALLATION
STANDARD DETAIL M-4
NOT TO SCALE

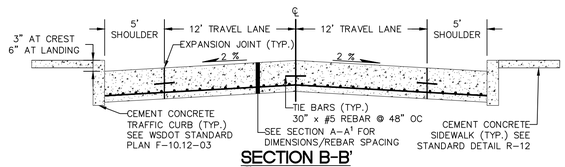


PLAN VIEW
NTS



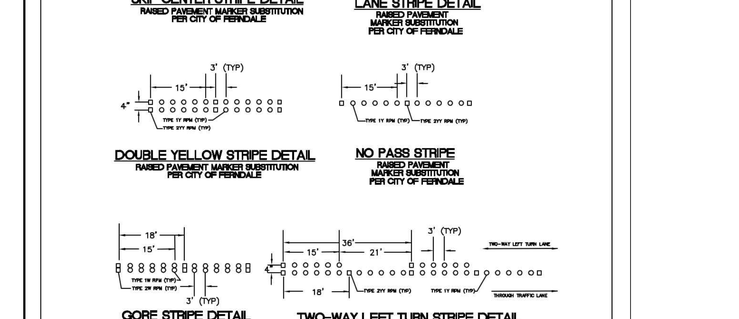
NOTE:
SEE WSDOT STANDARD PLAN A-40.10-03 FOR CEMENT CONCRETE PAVEMENT JOINTS

SECTION A-A'
NTS



SECTION B-B'
NTS

SPEED TABLE DETAIL
NTS

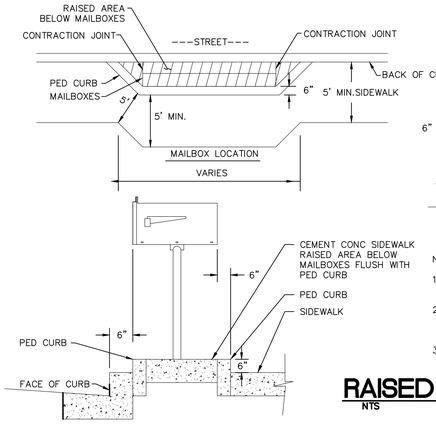


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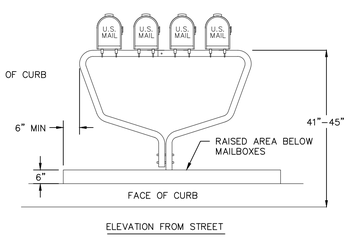
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Public Works Director — 8/11/17 Date

STRIPING
STANDARD DETAIL R-20
NOT TO SCALE



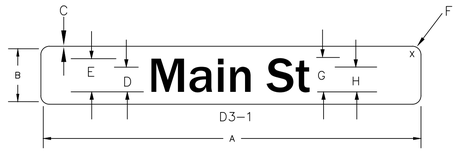
RAISED MAILBOX BASE
NTS



ELEVATION FROM STREET

NOTES:

1. LOCATION IS SUBJECT TO APPROVAL BY THE CITY AND POSTMASTER FOR PROTECTION OF VIEWS AND ACCESS.
2. THE SKETCH DEPICTS A MIN. STRUCTURAL AND DIMENSIONAL STANDARD. INNOVATIVE DESIGNS MEETING THE MIN. DIMENSIONAL AND STRUCTURAL REQUIREMENTS ARE ACCEPTABLE.
3. THE PED CURB SHALL BE PAINTED YELLOW



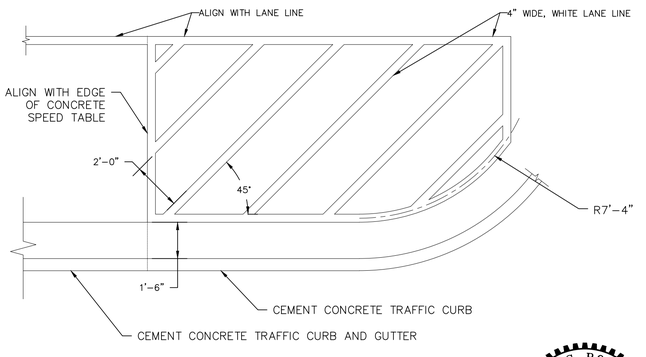
SIGNING DETAILS (TYP)

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	H
VA	6	5/8	3	4	1 1/2	3	2 1/4

COLORS

LETTERS – WHITE (REFL)
BACKGROUND – GREEN (REFL)

TYPICAL SIGN DETAIL
NTS



NO PARKING STRIPING
NTS

STA 18+07.82 TO 18+22.49
STA 18+44.82 TO 18+59.49

LUIS PONCE — STATE OF WASHINGTON — 38378 — REGISTERED PROFESSIONAL ENGINEER

SUBMITTED WITH DESIGN PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
GS/LMH	GS/LMG	LP

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Lynden, WA 98264 (360) 354-3687

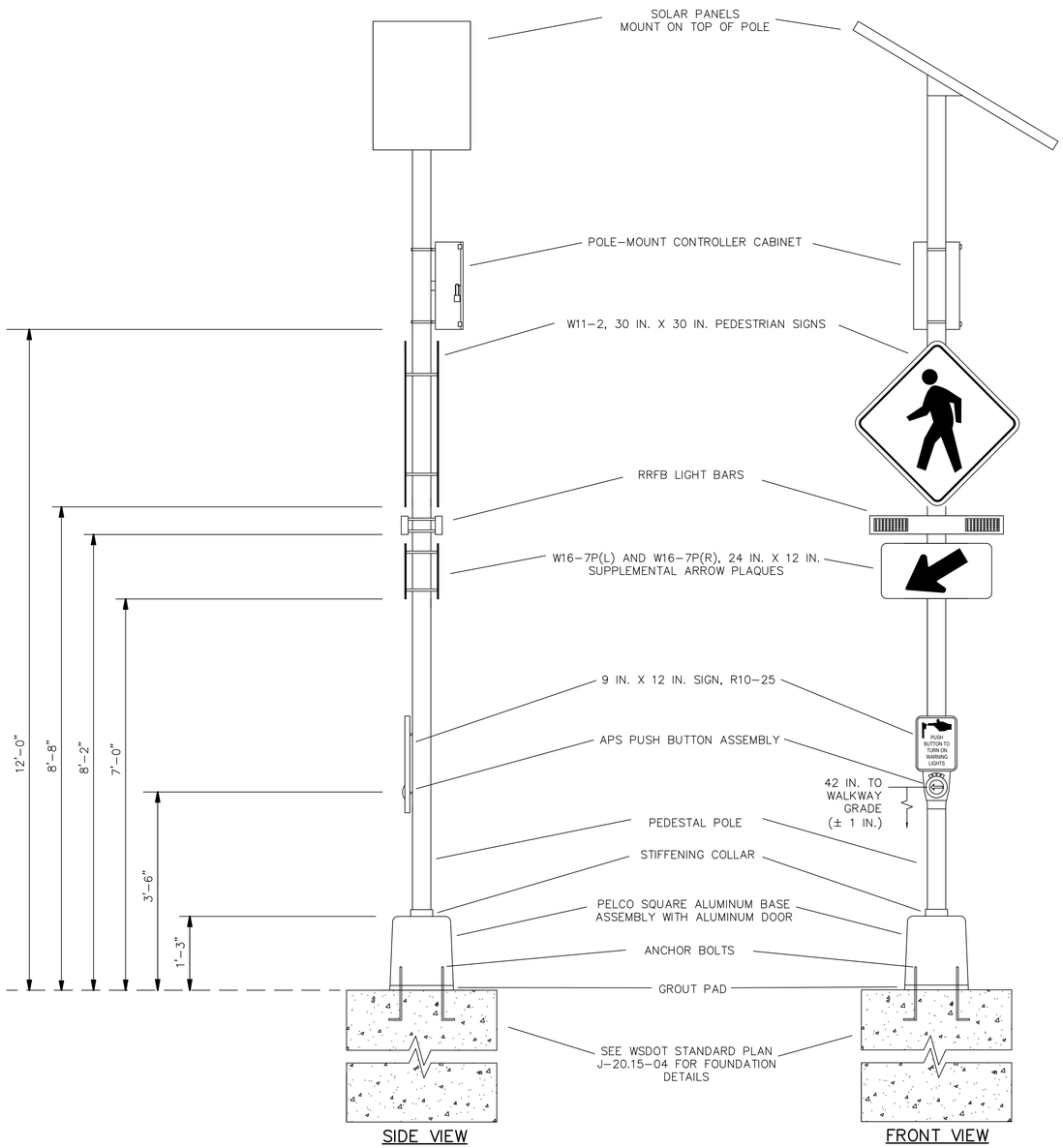
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
CHANNELIZATION AND LANDSCAPING DETAILS

DWG 18023 DETAILS
JOB# 18023
SCALE H: N/A V: N/A
DATE 8/27/2026
SHEET 77 of 85

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RECTANGULAR RAPID FLASH BEACON ASSEMBLY DETAIL
(NOT TO SCALE)

RRFB NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2024 WSDOT STANDARD SPECIFICATIONS FOR ROAN, BRIDGE, AND MUNICIPAL CONSTRUCTION AND ITS AMENDMENTS. SPECIAL PROVISIONS, WSDOT STANDARD PLANS AND NATIONAL ELECTRICAL CODE (ALL CURRENT VERSIONS).
2. USE STAINLESS STEEL MOUNTING CLAMPS AND BRACKETS TO MOUNT SIGNS, RRFB AND CONTROLLER CABINET TO POLE.
3. ALL APS PUSH BUTTONS (FACE OF PUSH BUTTON) SHALL BE ORIENTED AS SHOWN ON PLANS AND PARALLEL WITH CROSSWALK.
4. CONTRACTOR SHALL CONSTRUCT EACH RRFB ASSEMBLY AS SHOWN INCLUDING INTERNAL WIRING TERMINATIONS PER MANUFACTURER'S RECOMMENDATIONS.
5. ALL RRFB FOUNDATIONS AND SIGN LOCATIONS SHALL BE POTHOLED FOR UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL INSTALL TEMPORARY 36"X36" W20–901 "TRAFFIC REVISION AHEAD" SIGNS WITH BLACK LEGENDS AND ORANGE BACKGROUNDS ON 4"X4" TIMBER POSTS AT THE LOCATIONS STAKED BY ENGINEER (TOTAL OF TWO) PRIOR TO RRFB TURN–ON. INSTALL TWO ORANGE FLAGS AT TOP OF EACH POST. REMOVE SIGNS, FLAGS AND POTS 30 DAYS AFTER TURN–ON.
7. ANY OVERHEAD POWER (INCLUDING NEUTRAL CONDUCTORS) THAT WOULD BE LESS THAN 10' AWAY FROM ANY PART OF THE RRFB SYSTEMS SHALL BE MODIFIED TO PROVIDE MIN. 10' OF CLEARANCE PRIOR TO INSTALLING SAID EQUIPMENT.
8. ANY OVERHEAD COMMUNICATIONS CABLES THAT WOULD BE LESS THAN 1' AWAY FROM ANY PART OF THE RRFB SYSTEMS SHALL BE MODIFIED TO PROVIDE MIN. 1' OF CLEARANCE PRIOR TO INSTALLING SAID EQUIPMENT.
9. CONSTRUCT FLAT TYPE FOUNDATION AT LOCATION SHOWN PER WSDOT STANDARD PLAN J–20.15–04, EXCEPT ANCHOR BOLTS SHALL BE PER POLE MANUFACTURER'S RECOMMENDATION. INSTALL RRFB ASSEMBLY PER DETAIL.

LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
DRAWN BY GS/LMG
CHECKED BY LP

R&E Reichhardt & Ebe ENGINEERING INC
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Lynden, WA 98264 (360) 354-3687

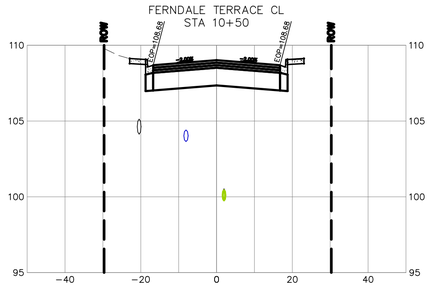
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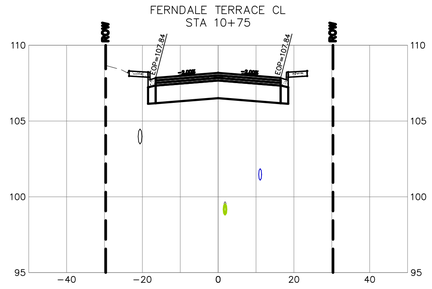
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

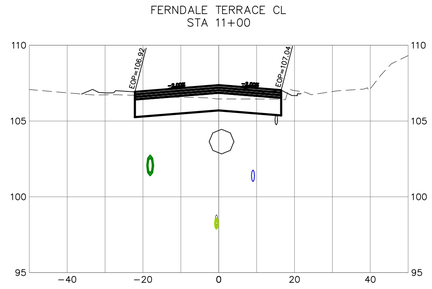
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
RRFB DETAIL

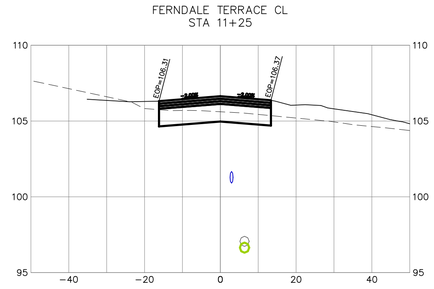
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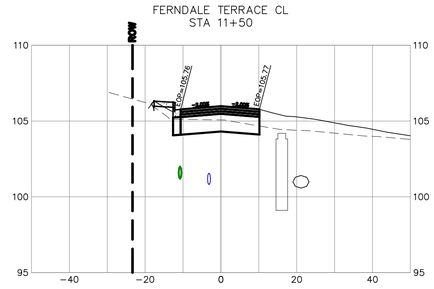
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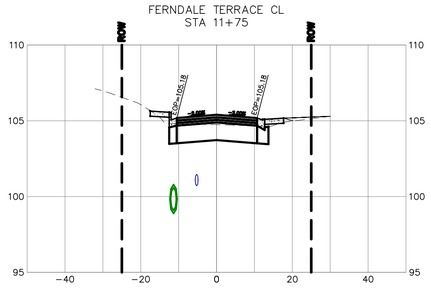


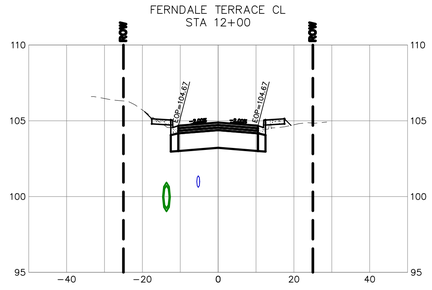


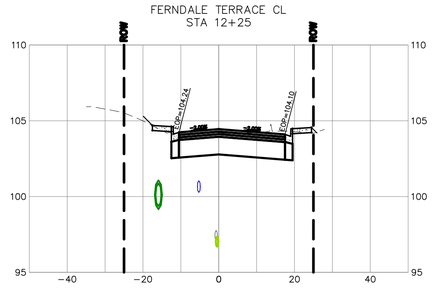


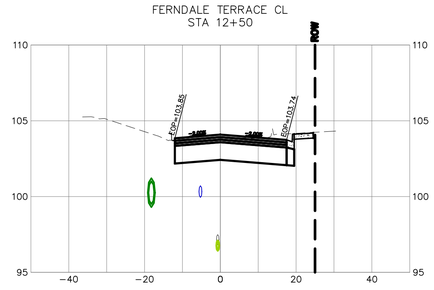


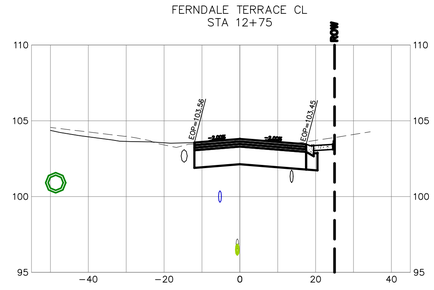


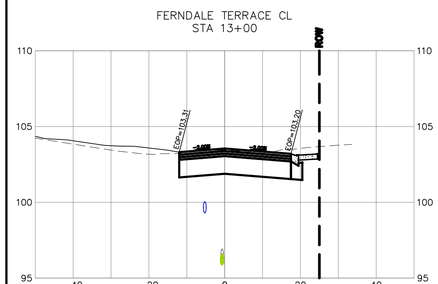


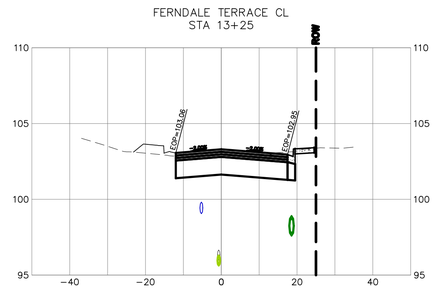


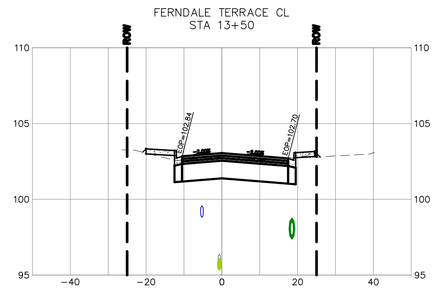


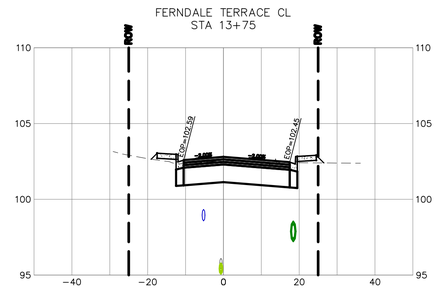


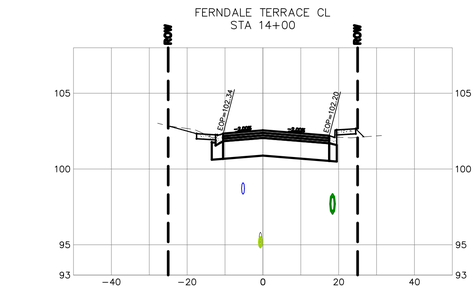












LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER

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DESIGNED BY GS/LMH
DRAWN BY GS/LMH
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R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

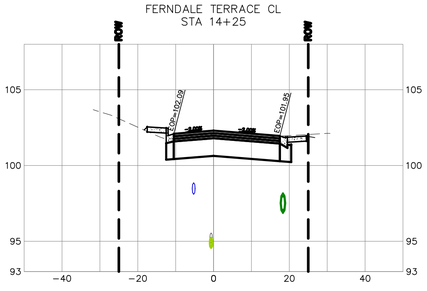
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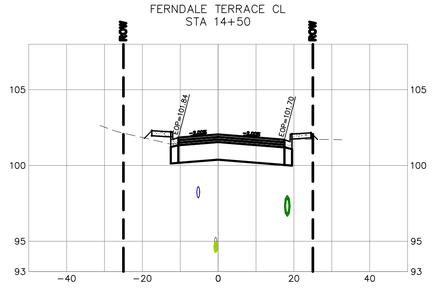
CITY OF FERNDALE
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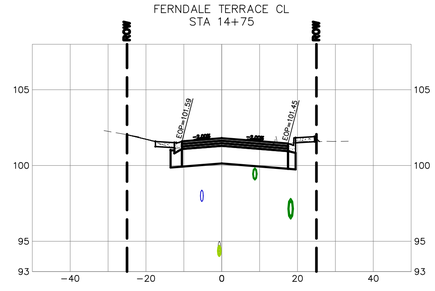
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HENDRICKSON AVENUE TO VISTA DRIVE
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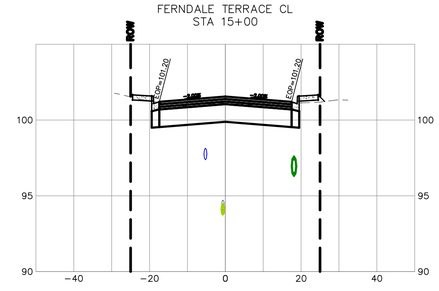
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DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 79 of 85

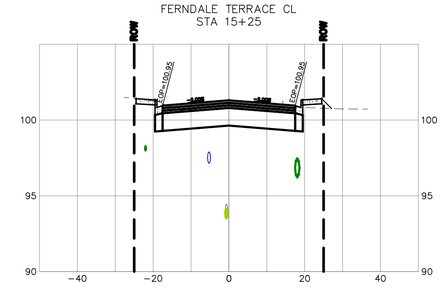
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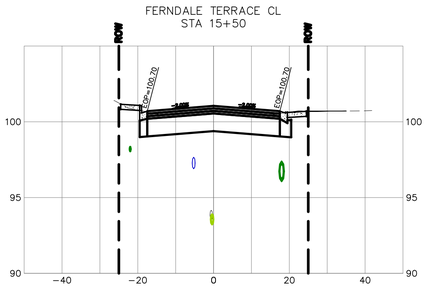


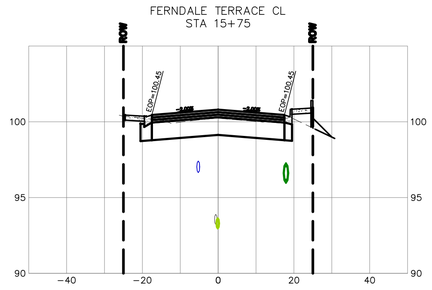


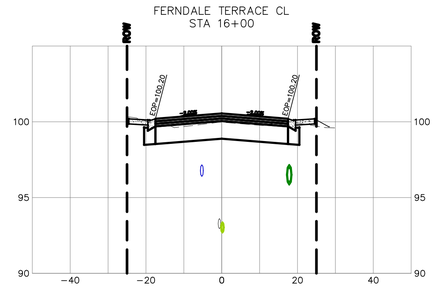


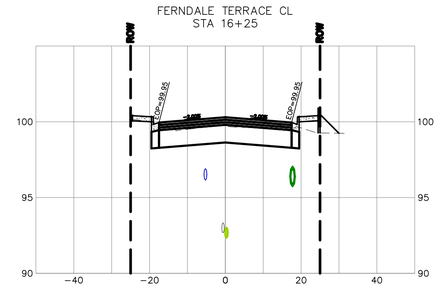


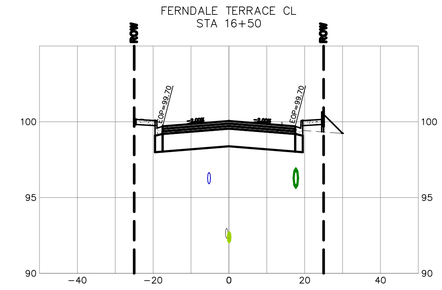


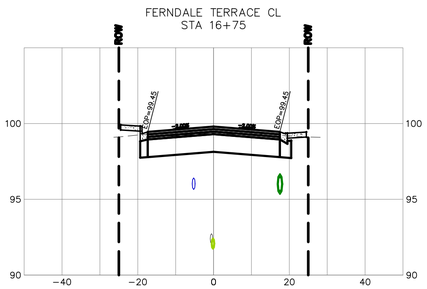


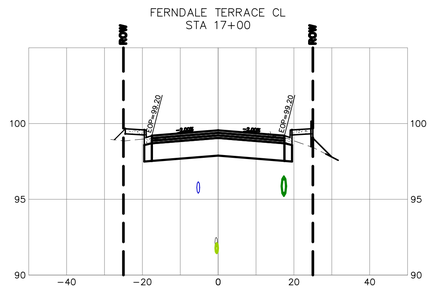


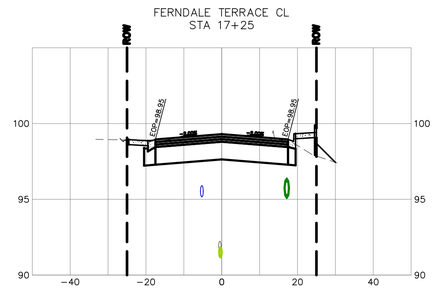


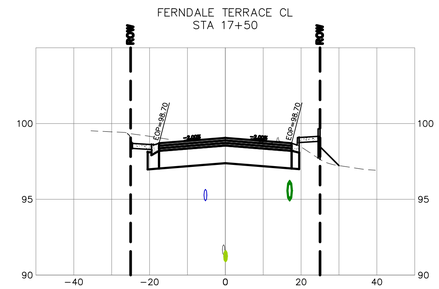


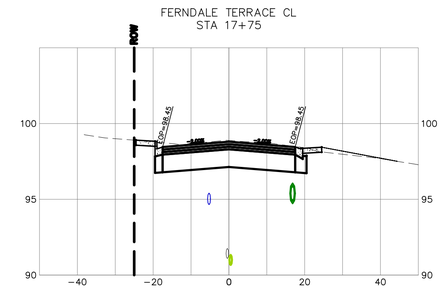












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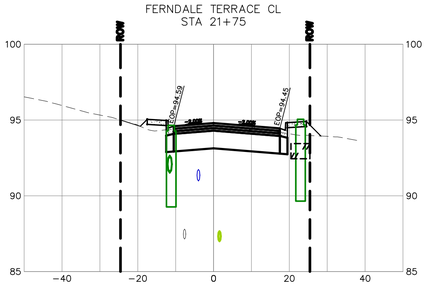
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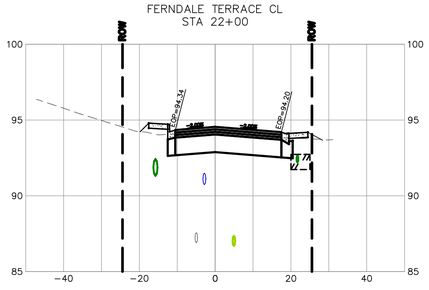
CITY OF FERNDALE
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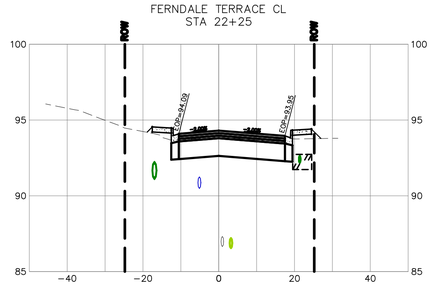
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HENDRICKSON AVENUE TO VISTA DRIVE
CROSS SECTIONS (2)

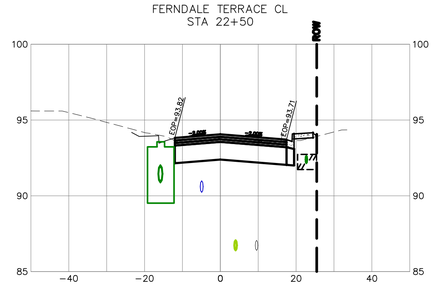
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DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 80 of 85

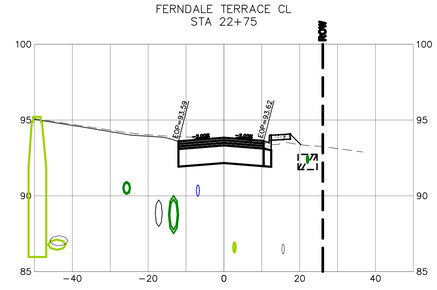
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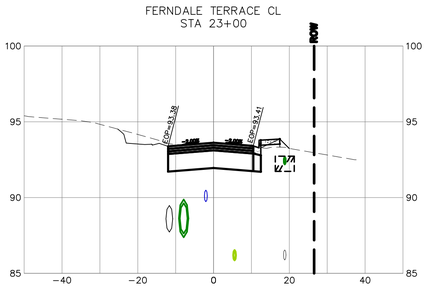


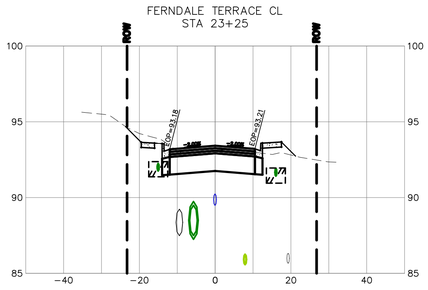


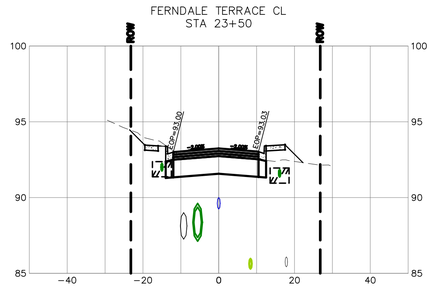


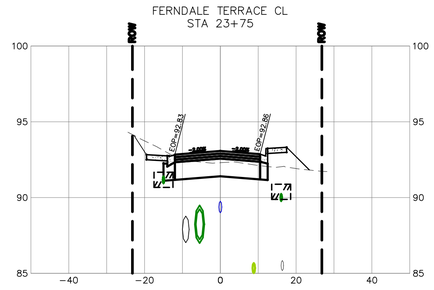


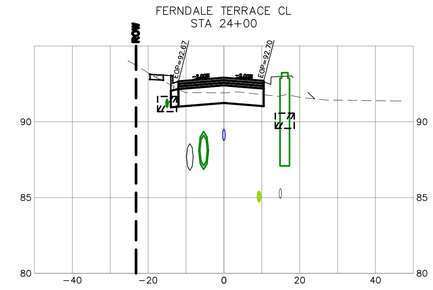


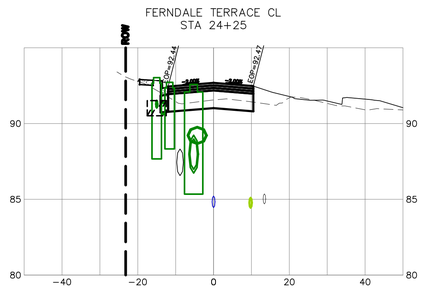


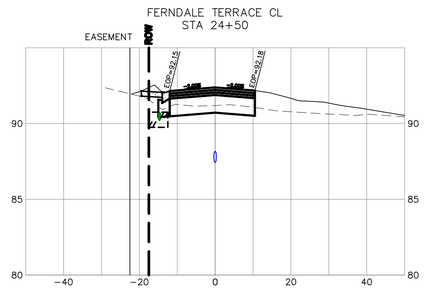


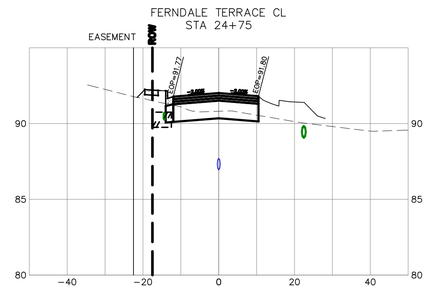


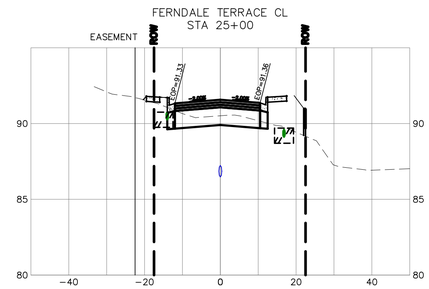


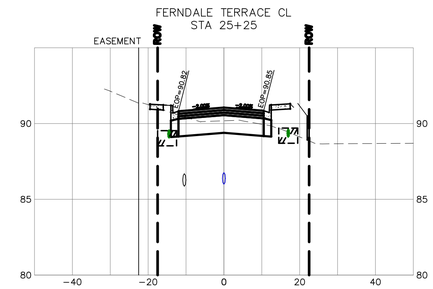


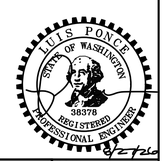












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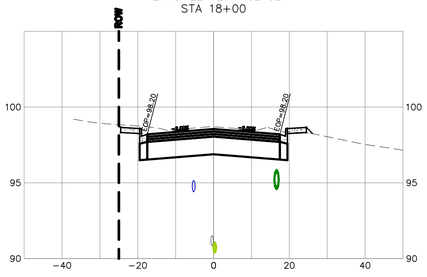
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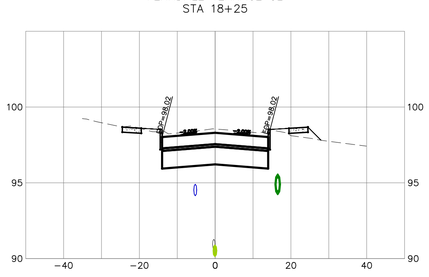
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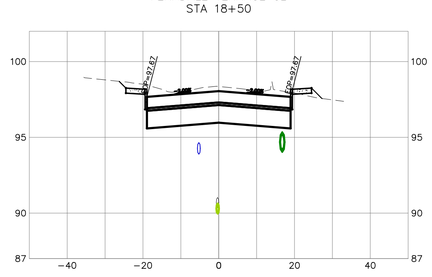
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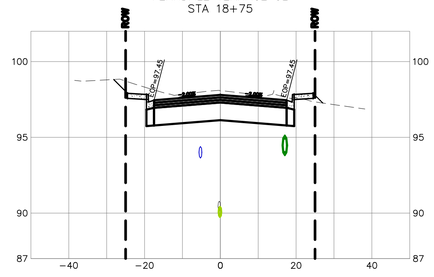
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HENDRICKSON AVENUE TO VISTA DRIVE
CROSS SECTIONS (4)

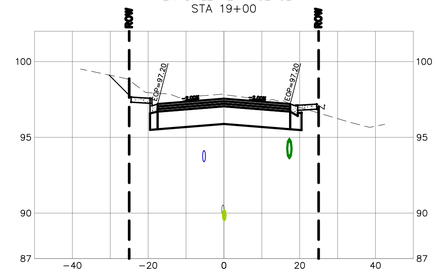
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DATE 8/27/2026
JOB# 18023
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SHEET 82 of 85

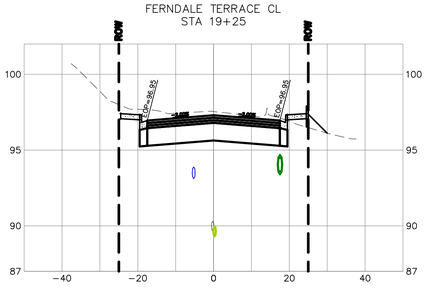


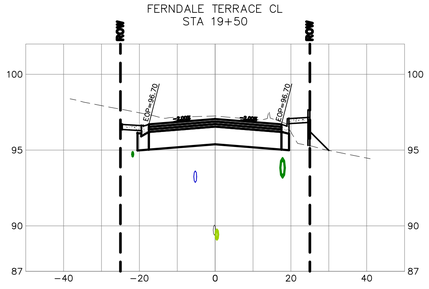


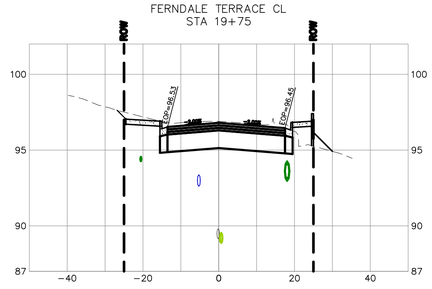


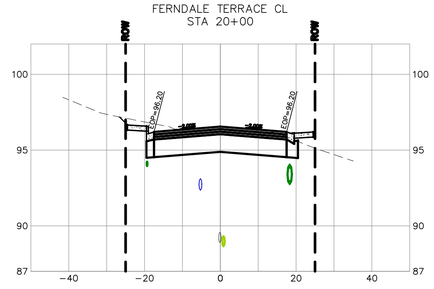


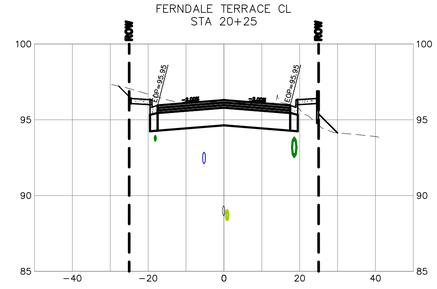


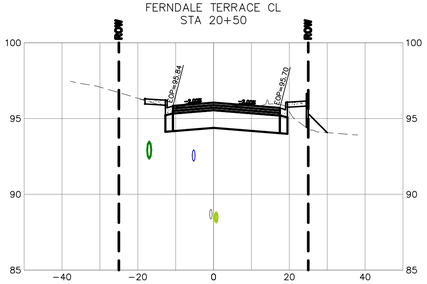


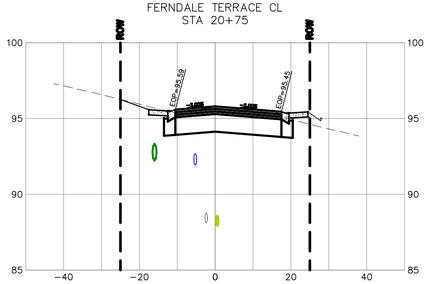


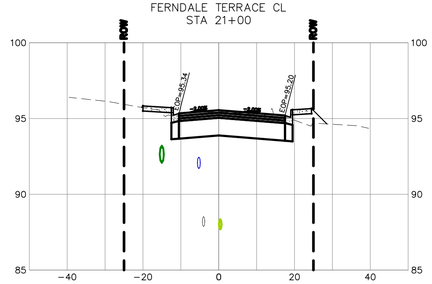


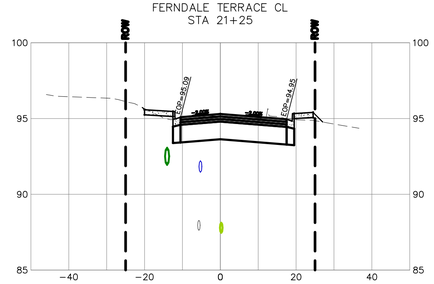


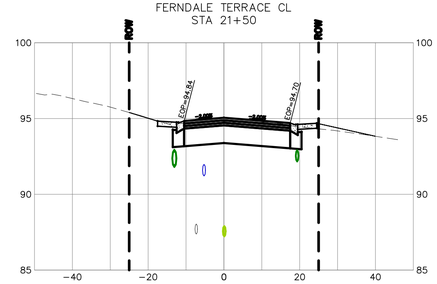














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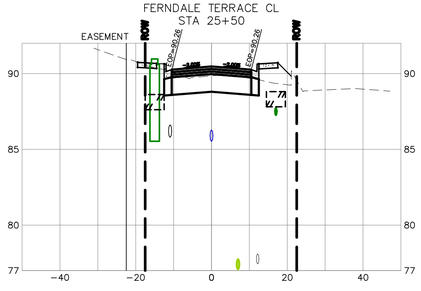
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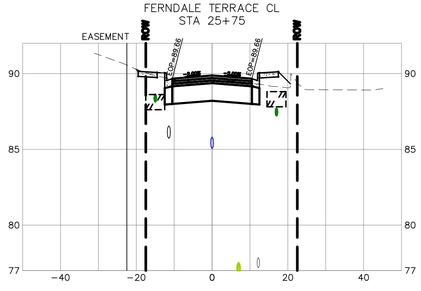
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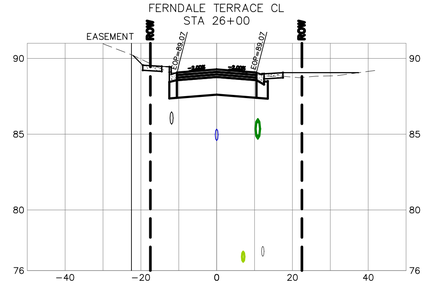
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

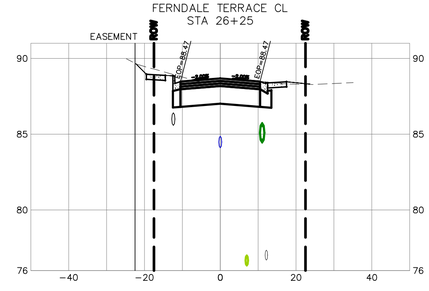
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
CROSS SECTIONS (3)

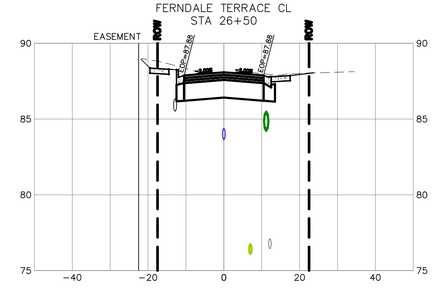
DWG 18023 CROSS SECTION
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 81 of 85

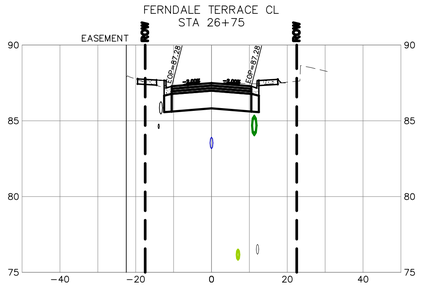


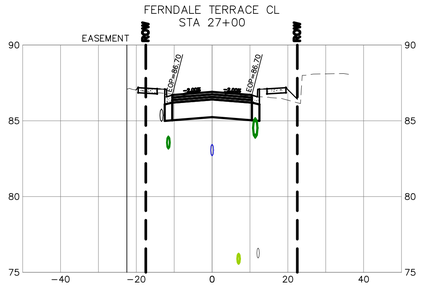


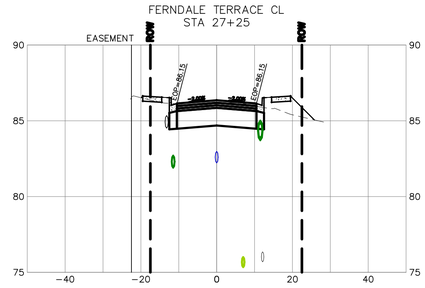


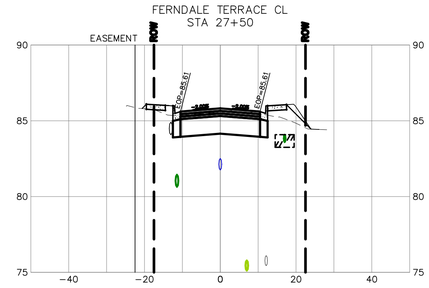


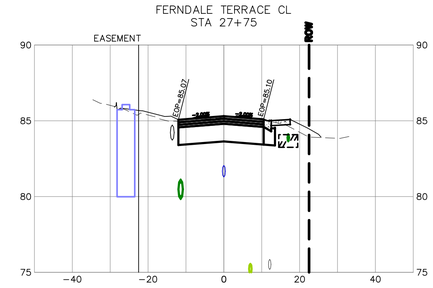


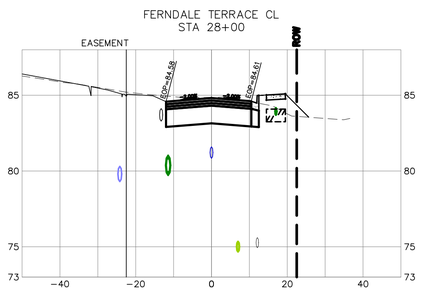


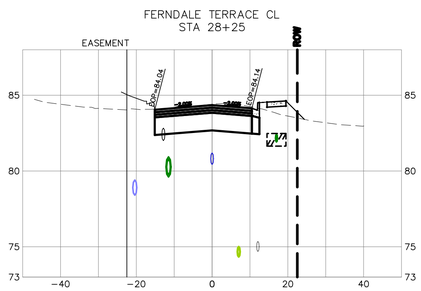


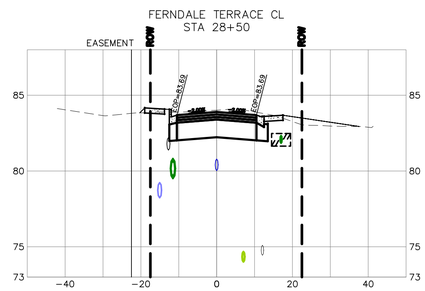


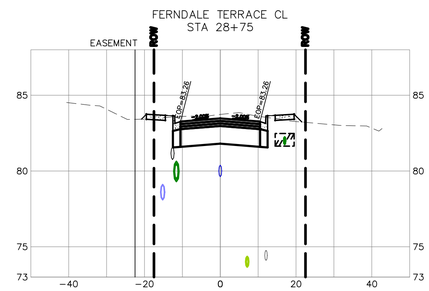


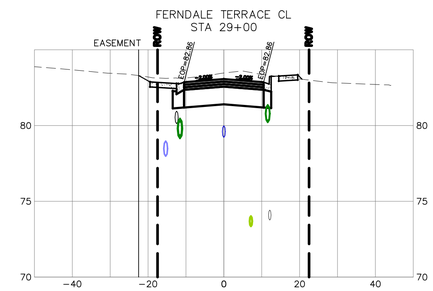














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DESIGNED BY	GS/LMH
DRAWN BY	GS/LMH
CHECKED BY	LP

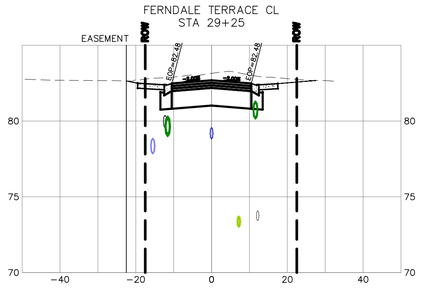
R&E Reichhardt & Ebe ENGINEERING INC
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Lynden, WA 98264 (360) 354-3687

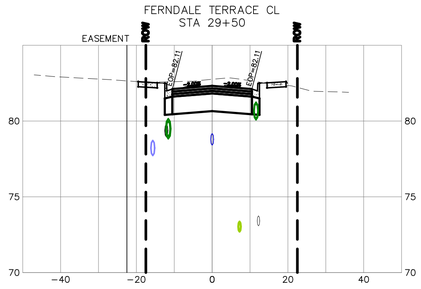
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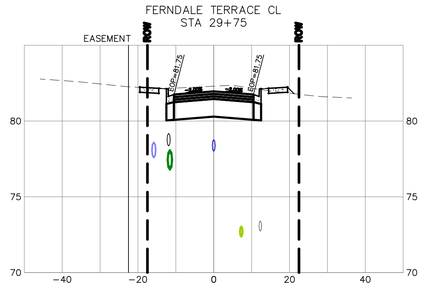
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

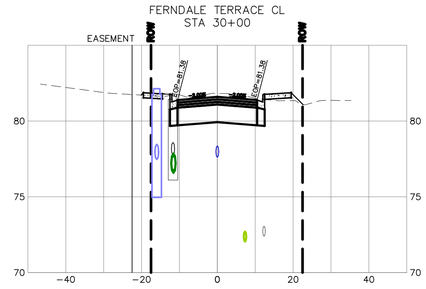
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
CROSS SECTIONS (5)

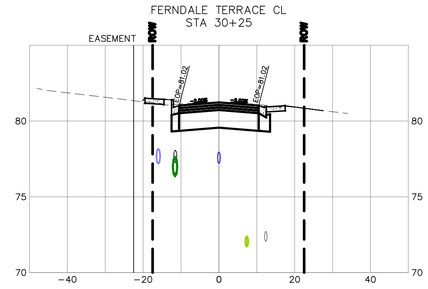
DWG 18023 CROSS SECTION			DATE 8/27/2026
JOB# 18023	SCALE H: 1" = 20' V: 1" = 2'		SHEET 83 of 85

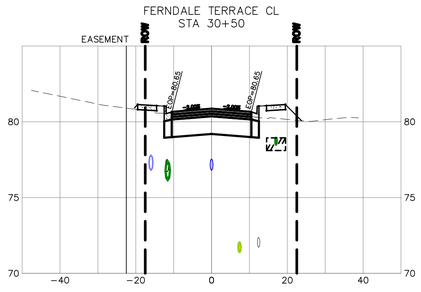


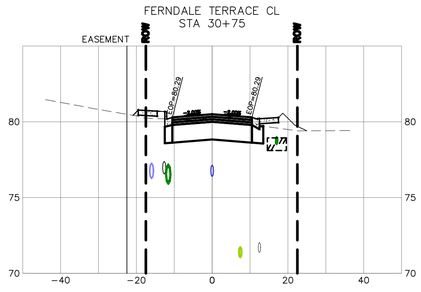


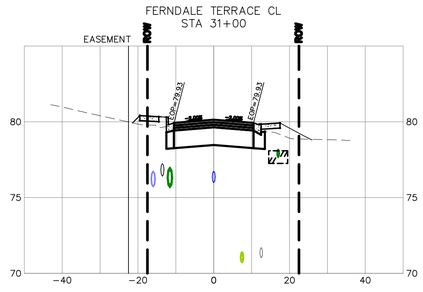


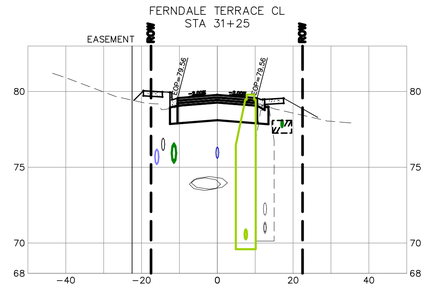


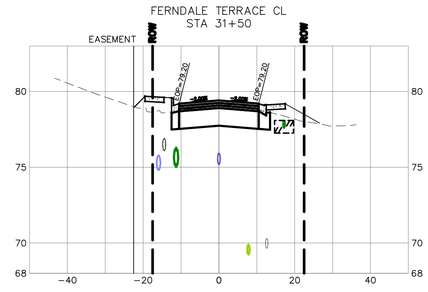


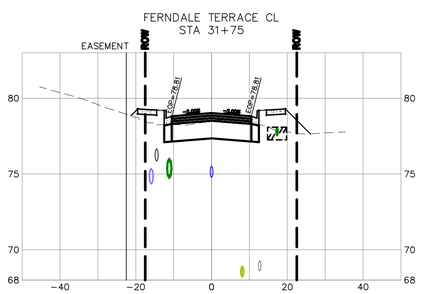


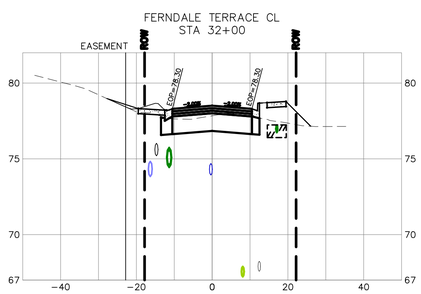


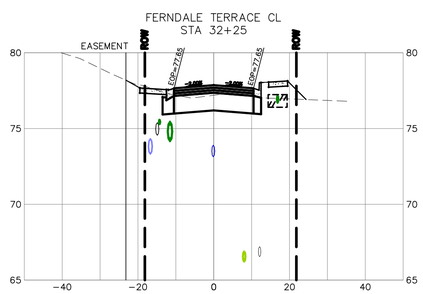


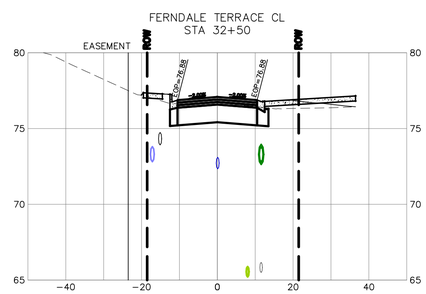


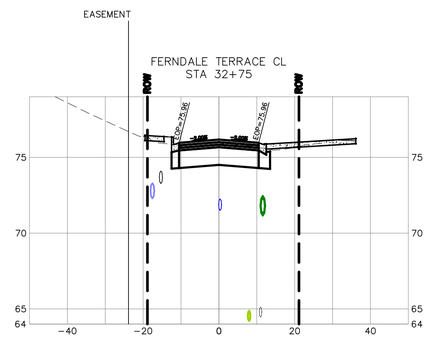












LUIS PONCE
STATE OF WASHINGTON
38378
REGISTERED
PROFESSIONAL ENGINEER
8/27/26

SUBMITTED WITH DESIGN PLAN

DESIGNED BY GS/LMH
DRAWN BY GS'LMH
CHECKED BY LP

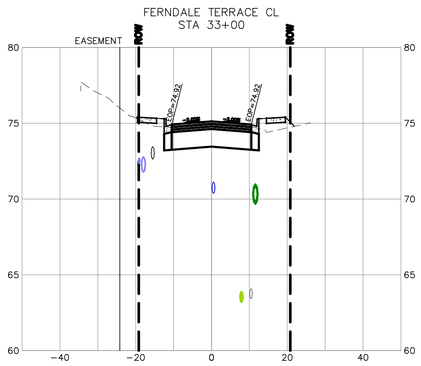
R&E Reichhardt & Ebe ENGINEERING INC
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Lynden, WA 98264 (360) 354-3687

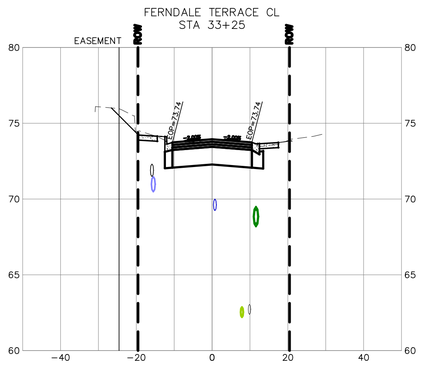
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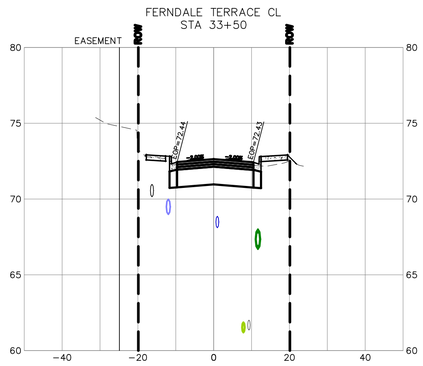
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

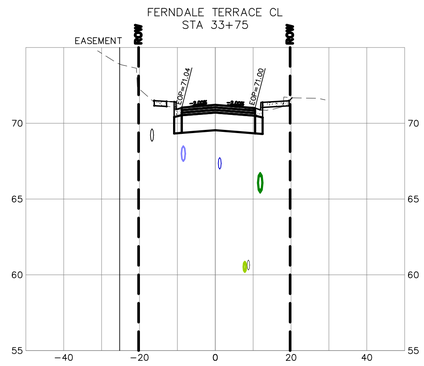
FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
CROSS SECTIONS (6)

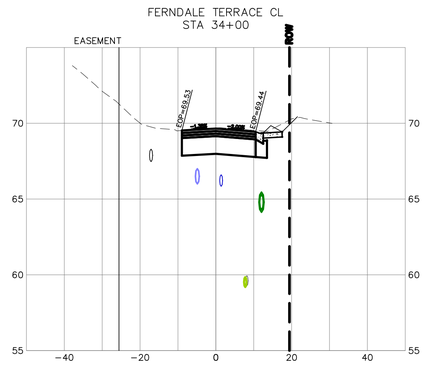
DWG 18023 CROSS SECTION
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 84 of 85

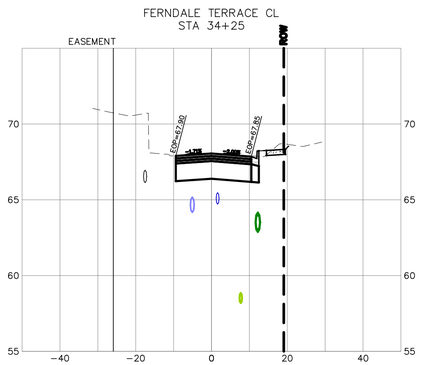


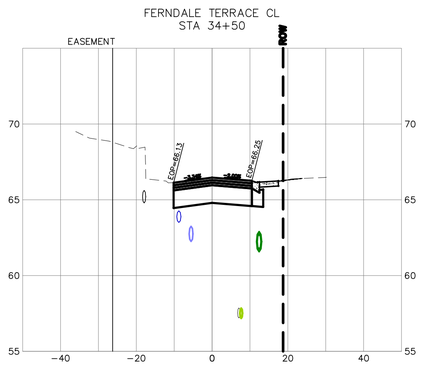


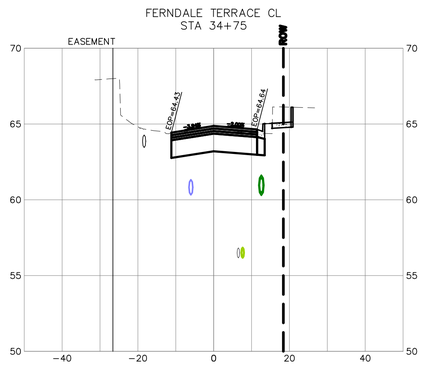


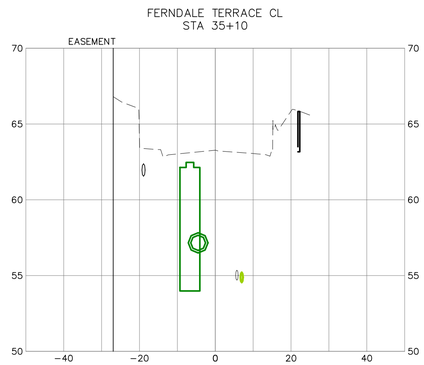


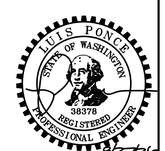












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DESIGNED BY GS/LMH
DRAWN BY GS/LMH
CHECKED BY LP

R&E Reichhardt & Ebe ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

FERNDALE TERRACE PROJECT
HENDRICKSON AVENUE TO VISTA DRIVE
CROSS SECTIONS (7)

DWG 18023 CROSS SECTION
DATE 8/27/2026
JOB# 18023
SCALE H: 1" = 20' V: 1" = 2'
SHEET 85 of 85