

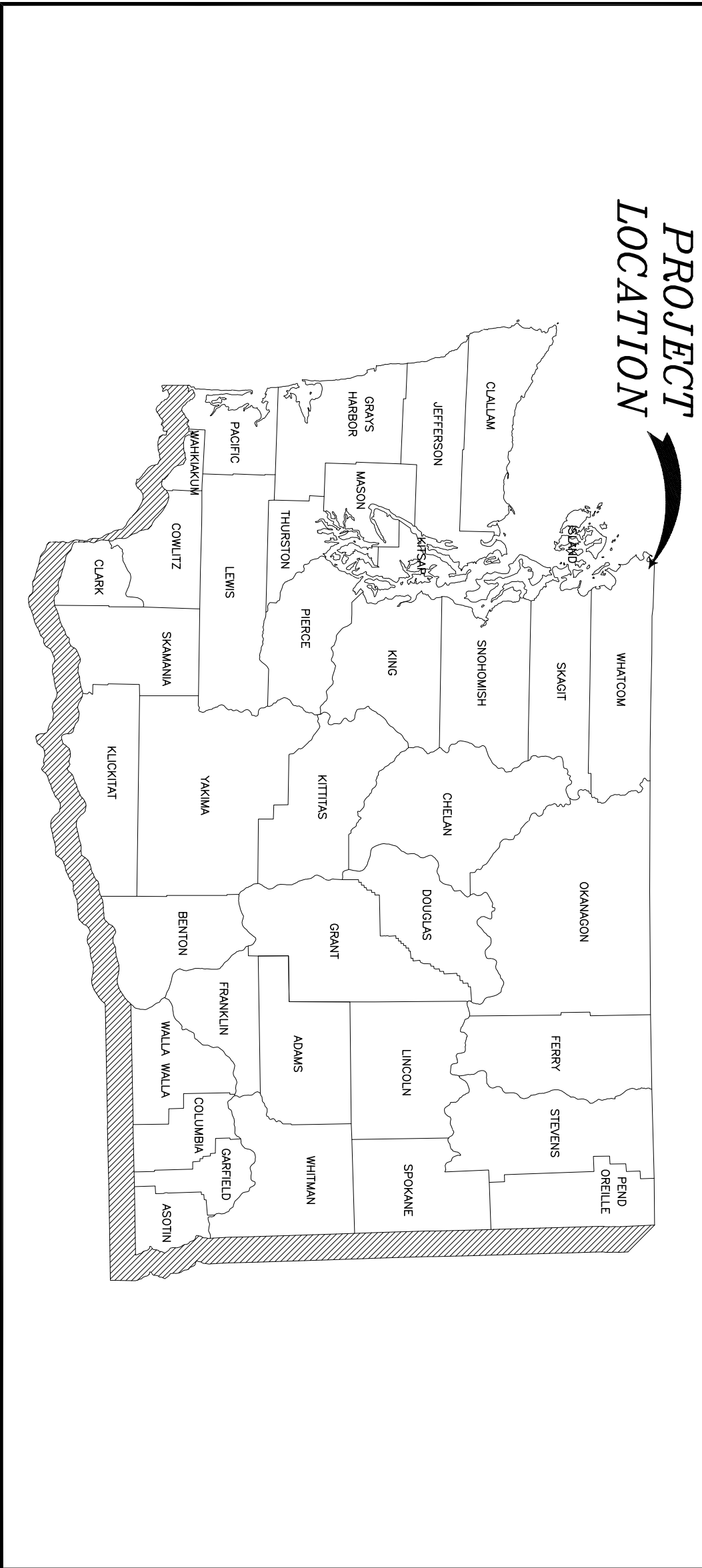
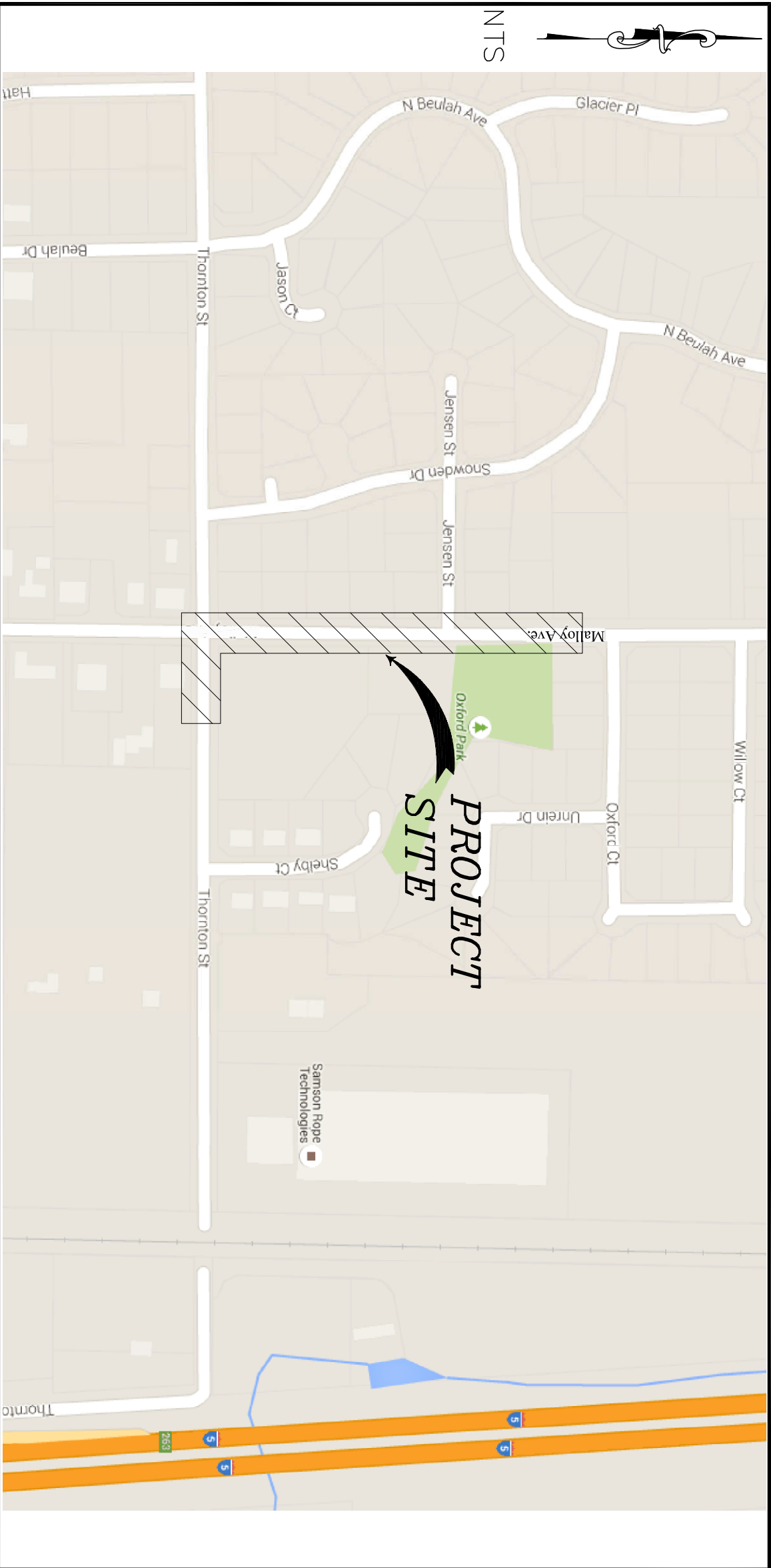
MALLOY AVE. SANITARY SEWER PROJECT

FERNDALE, WA

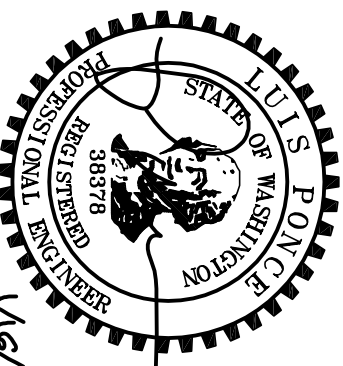
CITY OF FERNDALE - PROJECT NO. SS2015-02

VICINITY MAP

PROJECT LOCATED IN SECTIONS 17 & 18, TOWNSHIP 39N, RANGE 2E, W.M.



SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGEND AND ABBREVIATIONS
3	EXISTING CONDITIONS DEMO AND TESC PLAN
4	EXISTING CONDITIONS DEMO AND TESC PLAN
5	TRAFFIC DETOUR PLAN
6	PLAN AND PROFILE – THORNTON
7	PLAN AND PROFILE – MALLOY (SOUTH)
8	PLAN AND PROFILE – MALLOY (NORTH)
9	CHANNELIZATION AND PAVING PLAN
10	CHANNELIZATION AND PAVING PLAN
11	DETAILS
12	DETAILS



DESIGNED BY LP		DRAWN BY RWC/PJC		CHECKED BY LP		DATE 1-16-17	
AS-BUILT		1/16/17		CITY OF FERNDALE 2095 MAIN STREET FERNDALE, WA 98248		MALLOY AVENUE SANITARY SEWER PROJECT COVER	
DWG # 15009		SCALE H: N/A V: N/A		SHEET 1 of 12		1/6/17	

ABBREVIATIONS

AC	=	ASBESTOS CEMENT	EX	EXIST	=	EXISTING	R&C	=	RING AND COVER
AD	=	ALGEBRAIC DIFFERENCE	IR	=	EXISTING IRRIGATION	RT	=	RIGHT	
ASH	=	ASPHALT	SN	=	EXISTING SIGN	SMH	=	SANITARY SEWER MANHOLE	
B/DG	=	BUILDING	FT	=	FEET	SCH	=	SCHEDULE	
BVCS	=	BEGN VERTICAL CURVE ELEVATION	FL	=	FLOW LINE	S	=	SOUTH	
BVCS	=	BEGN VERTICAL CURVE STATION	FF	=	FINISHED FLOOR	SD	=	STORM DRAIN	
CATV	=	CABLE TELEVISION	FG	=	FINISHED GRADE	STD	=	STANDARD	
CRF	=	CONTROLLED DENSITY FILL	FT/FT	=	FEET PER FOOT	SP	=	STANDARD PLAN	
CL	=	CLASS, CENTERLINE	F&C	=	FRAME AND COVER	STA	=	STATION	
CMP	=	CORRUGATED METAL PIPE	F&G	=	FRAME AND COVER	SDGB	=	STORM DRAIN CATCH BASIN	
CMU	=	CONCRETE MASONRY UNIT	R&C	=	RING AND COVER	SDMH	=	STORM DRAIN MANHOLE	
COMP	=	COMPACTED	GALV	=	GALVANIZED	TEL	=	TELEPHONE	
CONC	=	CONCRETE	GRVL	=	GRAVEL	TLP	=	TRAFFIC LOOP	
CONT	=	CONTOUR	GV	=	GATE VALVE	TL	=	TYPICAL	
C & G	=	CURB & GUTTER	HDPF	=	HIGH DENSITY POLYETHYLENE	UP	=	UTILITY POLE	
CPSSP	=	CORRUGATED POLYETHYLENE STORM SEWER PIPE	HMA	=	HOT MIX ASPHALT	UTL	=	UTILITY	
CULV	=	CULVERT	HP	=	HIGH POINT	VC	=	VERTICAL CURVE	
Ø	=	DIAMETER	HD	=	HYDRANT	W.T	=	WALL	
DI	=	DUCTILE IRON	IW	=	INJECTION WELL	PVC	=	VERTICAL POINT OF CURVATURE	
D/W	=	DRIVEWAY	L	=	LENGTH	VPI	=	VERTICAL POINT OF INTERSECTION	
E	=	EAST	USC	=	LANDSCAPING	WPT	=	WASHINGTON STATE	
EOP, EP	=	EDGE OF PAVEMENT	LP	=	LOW POINT	W	=	WEST	
EQUIV	=	EQUIVALENT	LOC	=	LOCATION	WM	=	WATER METER	
EVC	=	END VERTICAL CURVE ELEVATION				XEOL	=	EXISTING EDGE OF ASPHALT	
EVS	=	END VERTICAL CURVE STATION							

NOTES

1. FIELD WORK PERFORMED BY COMPASS POINT SURVEY GROUP, LYNDEN, WA. TOPOGRAPHIC SURVEY PERFORMED IN APRIL, 2015.
2. HORIZONTAL DATUM: WASHINGTON STATE PLANE (NORTH) COORDINATES – NAD 83–2011
- VERTICAL DATUM: NAVD 88

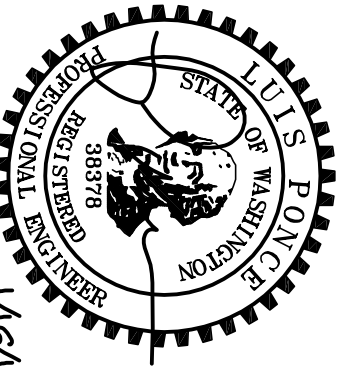
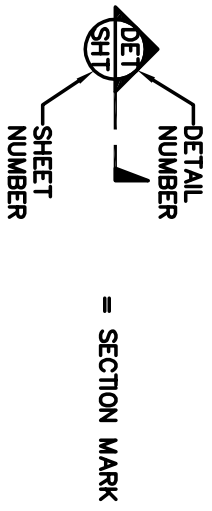
EXISTING

---	TB	---	TB	---	=	EXISTING TOP OF BANK
---	BB	---	BB	---	=	EXISTING BOTTOM OF BANK
---		---		---	=	EXISTING DITCH &
---		---		---	=	EXISTING GRADE BREAK
---	95	---		---	=	EXISTING MAJOR CONTOUR
---	---	95	---	---	=	EXISTING MINOR CONTOUR
---	---	---	95	---	=	EXISTING QUADRANT
---	X	---	X	---	=	EXISTING FENCE
---				---	=	EXISTING GRAVEL
---				---	=	EXISTING WALL
---				---	=	EXISTING BUILDING
---				---	=	EXISTING PROPERTY BOUNDARY
---				---	=	EXISTING RIGHT OF WAY
---				---	=	EXISTING RIGHT OF WAY &
---				---	=	EXISTING EASEMENT
---				---	=	EXISTING ROAD &
---				---	=	EXISTING WETLANDS BOUNDARY
---				---	=	EXISTING TRAFFIC STRIPING
---				---	=	EXISTING EDGE OF PAVEMENT
---				---	=	EXISTING TOP BACK OF CURB
---				---	=	EXISTING SIDEWALK
---	UGP	---	UGP	---	=	EXISTING POWER BURIED
---	OH-P	---	OH-P	---	=	EXISTING OVERHEAD POWER
---	UC	---	UC	---	=	EXISTING COMMUNICATIONS BURIED
---	OH-C	---	OH-C	---	=	EXISTING OVERHEAD COMMUNICATIONS
---	FO	---	FO	---	=	EXISTING FIBER OPTICS BURIED
---	TV	---	TV	---	=	EXISTING TV BURIED
---	T	---	T	---	=	EXISTING TELEPHONE BURIED
---	C	---	C	---	=	EXISTING CONDUIT
---	G	---	G	---	=	EXISTING GAS MAIN
---	W	---	W	---	=	EXISTING WATER MAIN
---	IR	---	IR	---	=	EXISTING IRRIGATION LINE
---	FM	---	FM	---	=	EXISTING SANITARY SEWER FORCE MAIN
---	SS	---	SS	---	=	EXISTING STORM DRAIN
---	SD	---	SD	---	=	EXISTING ORDINARY HIGH WATER
---	OHW	---	OHW	---	=	EXISTING CULVERT
---				---	=	EXISTING TREE LINE
---				---	=	EXISTING CONCRETE
---				---	=	EXISTING RR TRACKS
---				---	=	EXISTING SIGNAL POLE AND ARM W/ LUMINAIRE
---				---	=	EXISTING STREET LIGHT ASSEMBLY
---				---	=	EXISTING YARD LIGHT
---				---	=	EXISTING DUY WIRE
---				---	=	EXISTING GAS METER
---				---	=	EXISTING GAS VALVE
---				---	=	EXISTING TRANSFORMER PAD
---				---	=	EXISTING POWER VAULT
---				---	=	EXISTING JBOX
---				---	=	EXISTING SOIL BORING LOCATION
---				---	=	EXISTING MAIL BOX
---				---	=	EXISTING WATER SPIGOT
---				---	=	EXISTING WATER BLOW OFF
---				---	=	EXISTING WATER METER
---				---	=	EXISTING WATER VALVE
---				---	=	EXISTING FIRE HYDRANT
---				---	=	EXISTING TRAFFIC SIGNAL VAULT
---				---	=	EXISTING SEWER MANHOLE
---				---	=	EXISTING STORM DRAIN CATCH BASIN TYPE I
---				---	=	EXISTING STORM DRAIN CATCH BASIN TYPE II
---				---	=	EXISTING UTILITY POLE
---				---	=	EXISTING MONITORING WELL
---				---	=	EXISTING STORM CLEANOUT
---				---	=	EXISTING SEWER CLEANOUT
---				---	=	EXISTING SIGN
---				---	=	EXISTING TELEPHONE PEDESTAL
---				---	=	EXISTING COMMUNICATIONS VAULT
---				---	=	EXISTING BENCH MARK
---				---	=	EXISTING NAIL AND SHINER
---				---	=	EXISTING IRON PIPE
---				---	=	EXISTING MONUMENT (IN CASE)
---				---	=	EXISTING MONUMENT (SURFACE)
---				---	=	EXISTING ANGLE POINT
---				---	=	EXISTING TREE STUMP
---				---	=	EXISTING TREE
---				---	=	EXISTING VEGETATION

LEGEND

PROPOSED

---	TB	---	TB	---	=	PROPOSED TOP OF BANK
---	BB	---	BB	---	=	PROPOSED TOE OF BANK
---				---	=	PROPOSED DITCH &
---				---	=	PROPOSED GRADE BREAK
---	95	---		---	=	PROPOSED MAJOR CONTOUR
---	---	95	---	---	=	PROPOSED MINOR CONTOUR
---				---	=	PROPOSED QUADRANT
---	X	---	X	---	=	PROPOSED FENCE
---				---	=	PROPOSED GRAVEL
---				---	=	PROPOSED WALL
---				---	=	PROPOSED BUILDING
---				---	=	PROPOSED PAVEMENT VALLEY
---				---	=	PROPOSED RIGHT OF WAY
---				---	=	PROPOSED AUTOTURN
---				---	=	PROPOSED CONSTRUCTION EASEMENT
---				---	=	PROPOSED ROAD &
---				---	=	PROPOSED SAWCUT
---				---	=	PROPOSED TRAFFIC STRIPE
---				---	=	PROPOSED ROAD EDGE OF PAVEMENT
---				---	=	PROPOSED CURB AND GUTTER
---				---	=	PROPOSED PATH
---				---	=	PROPOSED SIDEWALK
---				---	=	PROPOSED POWER LINE
---				---	=	PROPOSED ROCK WALL
---				---	=	PROPOSED PARKING STRIPE
---				---	=	PROPOSED TRAFFIC SIGNAL CONDUCTOR
---				---	=	PROPOSED FIBER OPTICS
---				---	=	PROPOSED SLIT FENCE
---				---	=	PROPOSED CONDUIT
---				---	=	PROPOSED HANDRAIL
---				---	=	PROPOSED IRRIGATION LINE
---				---	=	PROPOSED WATER MAIN
---				---	=	PROPOSED SANITARY SEWER FORCE MAIN
---				---	=	PROPOSED SANITARY SEWER
---				---	=	PROPOSED STORM DRAIN
---				---	=	PROPOSED CULVERT
---				---	=	PROPOSED TREE LINE
---				---	=	PROPOSED CONC. SIDEWALK/DRIVEWAY
---				---	=	PROPOSED INFILTRATION TRENCH
---				---	=	PROPOSED INFILTRATION FILTER MEDIA
---				---	=	PROPOSED GRIND
---				---	=	PROPOSED DECAULTION AREA
---				---	=	PROPOSED ASPHALT
---				---	=	PROPOSED RIGHT OF WAY TAKE
---				---	=	PROPOSED STORM DRAIN INLET
---				---	=	PROPOSED COUPLER
---				---	=	PROPOSED WATER METER
---				---	=	PROPOSED WATER VALVE
---				---	=	PROPOSED STORM DRAIN CATCH BASIN TYPE II
---				---	=	PROPOSED SANITARY SEWER MANHOLE
---				---	=	PROPOSED STORM DRAIN CATCH BASIN TYPE I
---				---	=	PROPOSED HYDRANT
---				---	=	PROPOSED UTILITY POLE
---				---	=	PROPOSED JBOX (TYPE I, II, III)
---				---	=	PROPOSED MONITORING WELL
---				---	=	PROPOSED STORM CLEANOUT
---				---	=	PROPOSED SANITARY SEWER CLEAN OUT
---				---	=	PROPOSED SIGN
---				---	=	FLOW ARROW
---				---	=	PROPOSED TREE



AS-BUILT

DESIGNED BY

LP

DRAWN BY

RMG/PJC

CHECKED BY

LP

REICHARDT & EDE

ENGINEERING INC

P.O. Box 978 / 423 Front Street, Lynden, WA 98264

813 Metcalf Street, Sedro-Woolley, WA 98284

(360) 354-3687

(360) 855-1719

NO.	DATE	DESCRIPTION

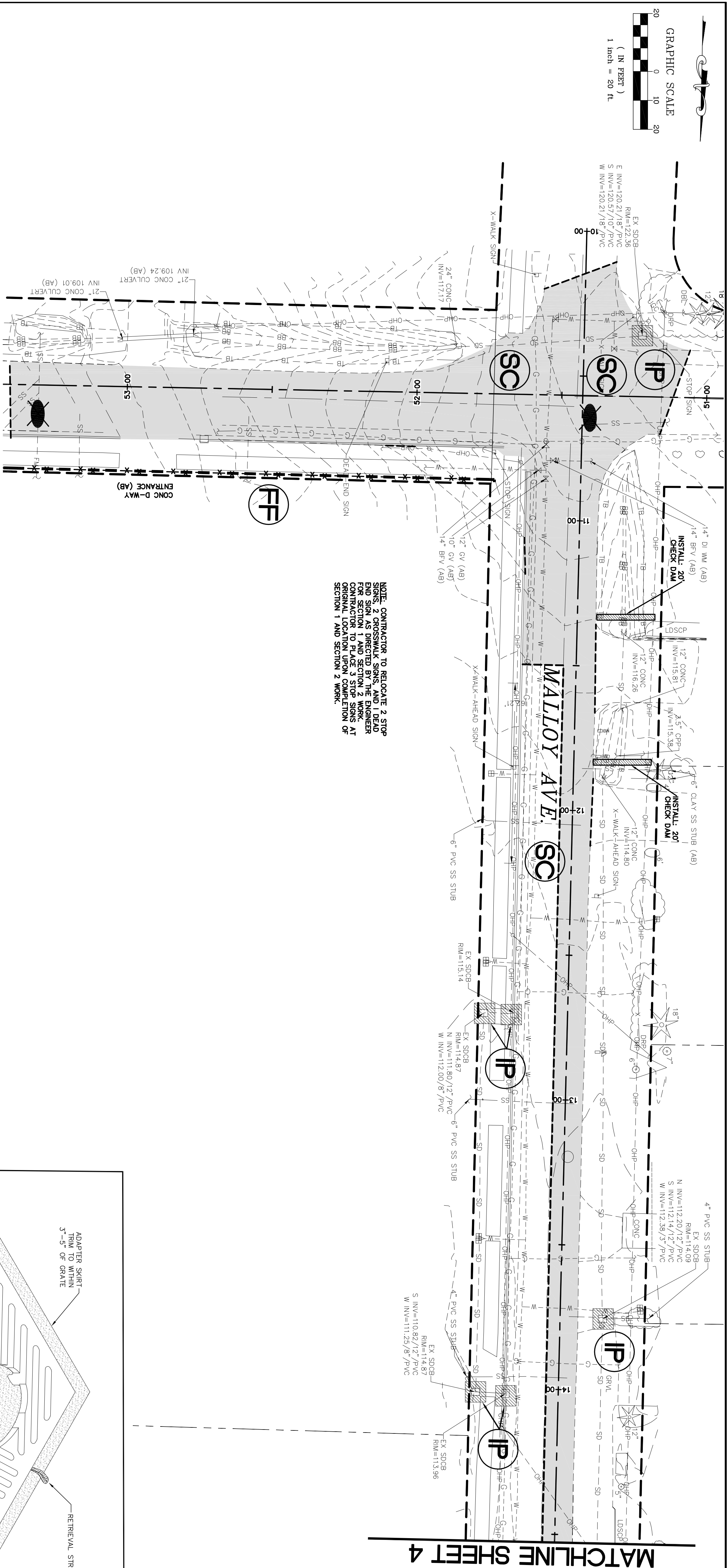
CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

MALLOY AVENUE
SANITARY SEWER PROUECT
LEGEND AND ABBREVIATIONS

DWG 15009 ASBUILT

JOBS#	SCALE	DATE
15009	H: N/A V: N/A	1-16-17

SHEET 2 of 12



TESC PLAN LEGEND

SYMBOL

WASHINGTON STATE DEPT. OF ECOLOGY
BEST MANAGEMENT PRACTICES (BMP)
REF.: STORMWATER MANAGEMENT MANUAL
FOR WESTERN WASHINGTON, 2012



BMP C103 AND C233: CLEARING LIMITS
 AND FILTER FABRIC FENCE - SEE
 DETAIL SHEET

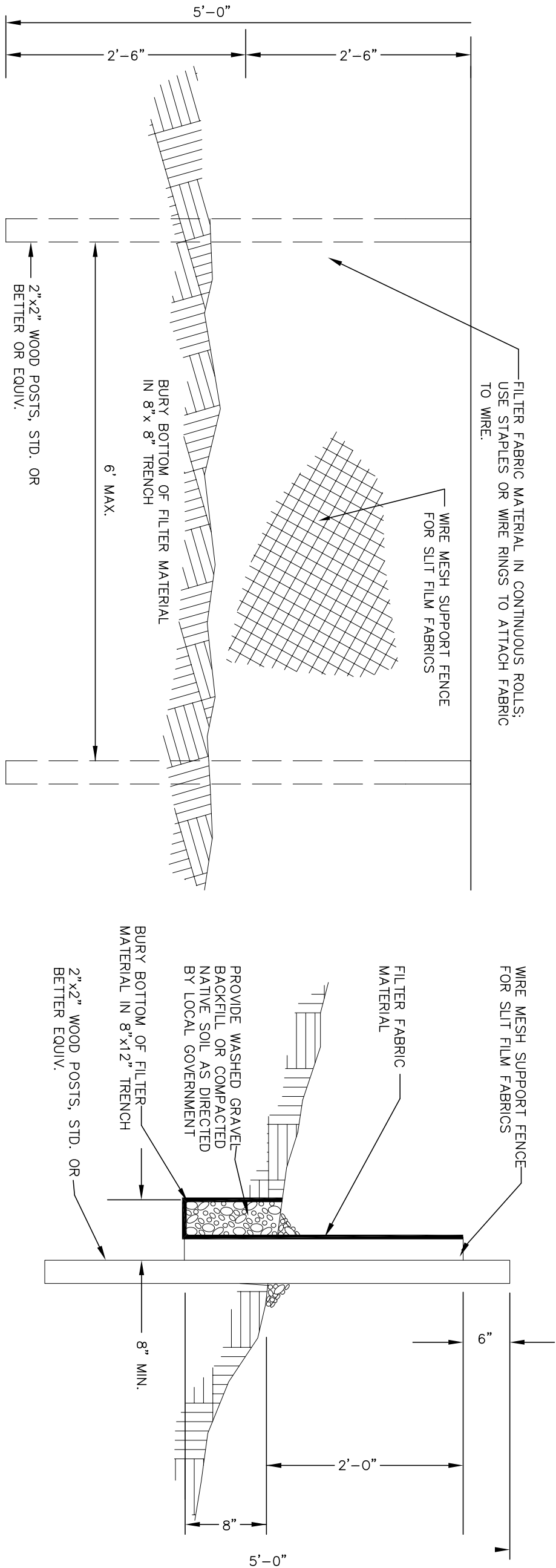
SC
BMP C105 AND C140
STREET CLEANING

P
BMP C220 INLET PROTECTION – PLACE
SEDIMENT FILTER AROUND OR OVER
CATCH BASINS

DEMOLITION PLAN LEGEND

	PROPOSED CONCRETE/ASPHALT REMOVAL
	SAWOUT FULL DEPTH OF PAVEMENT
	REMOVE EX. SMH

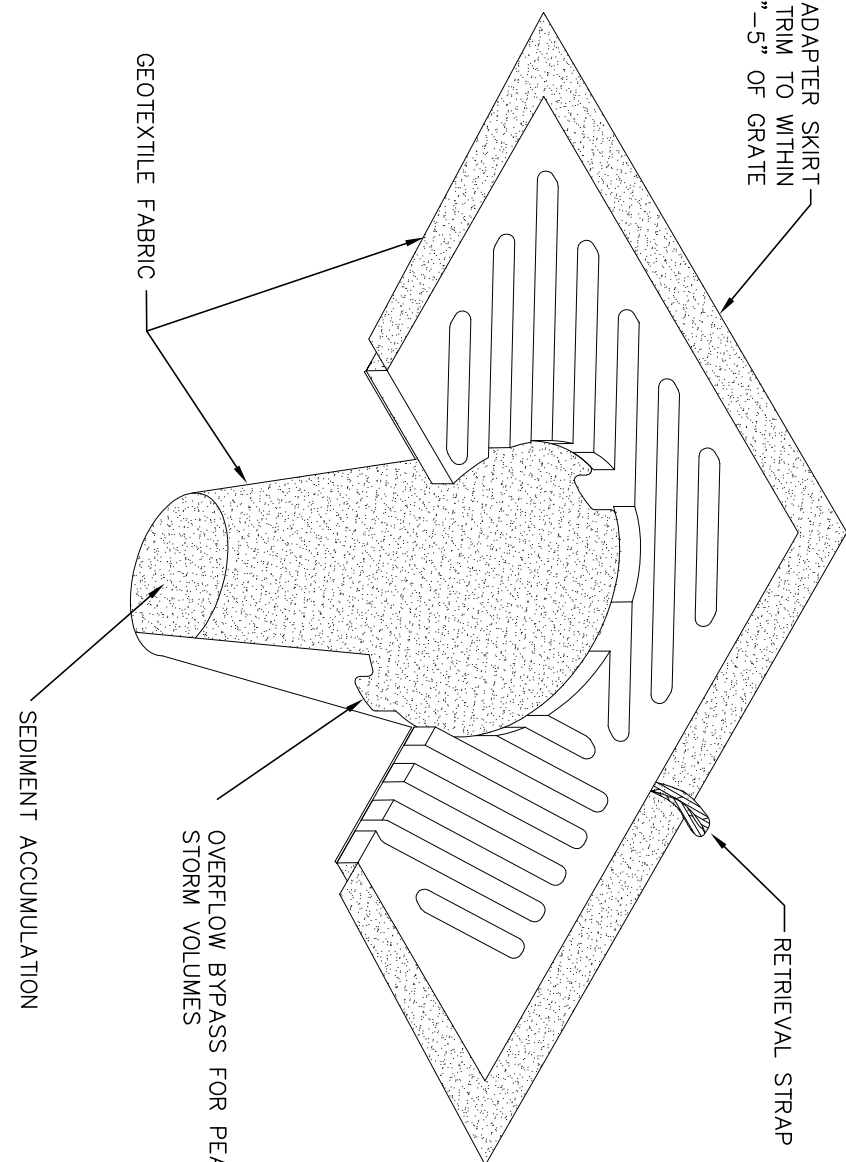
FILTER FABRIC FENCE DETAIL

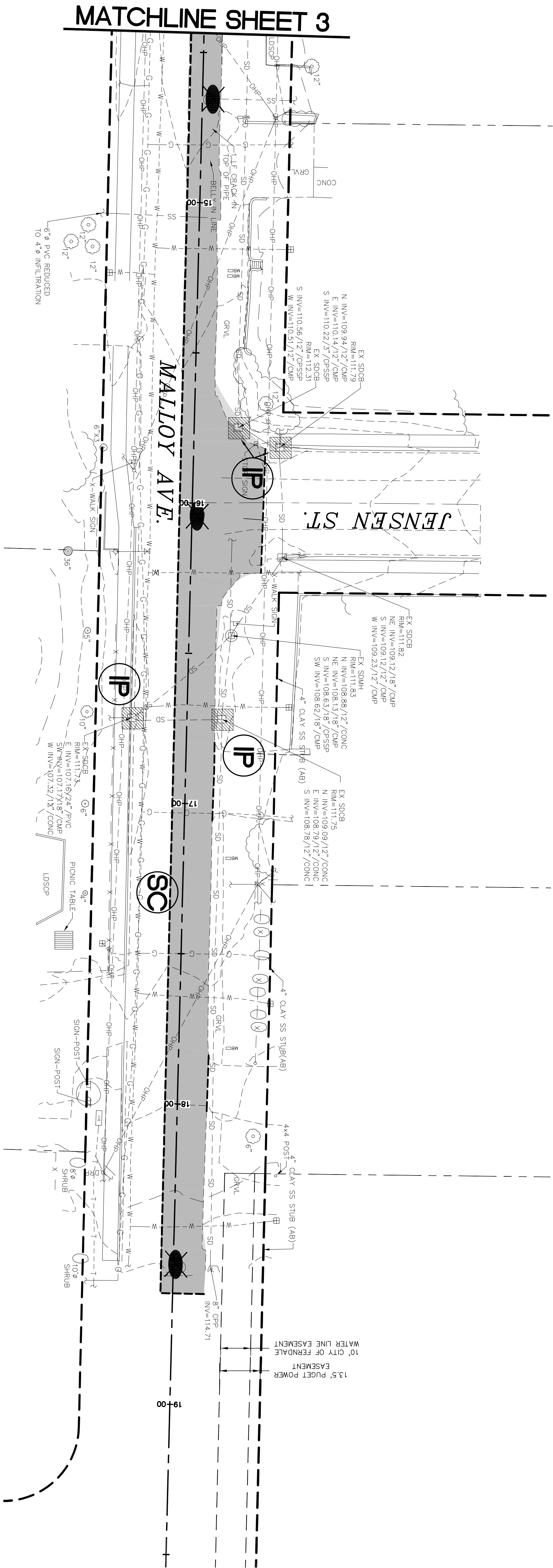


CATCH BASIN INSERT

NOTES:

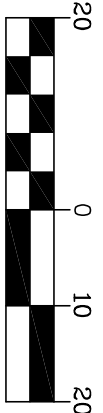
1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

[illegible]

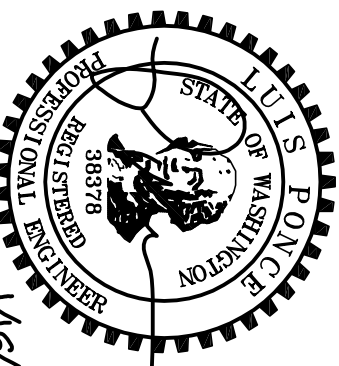
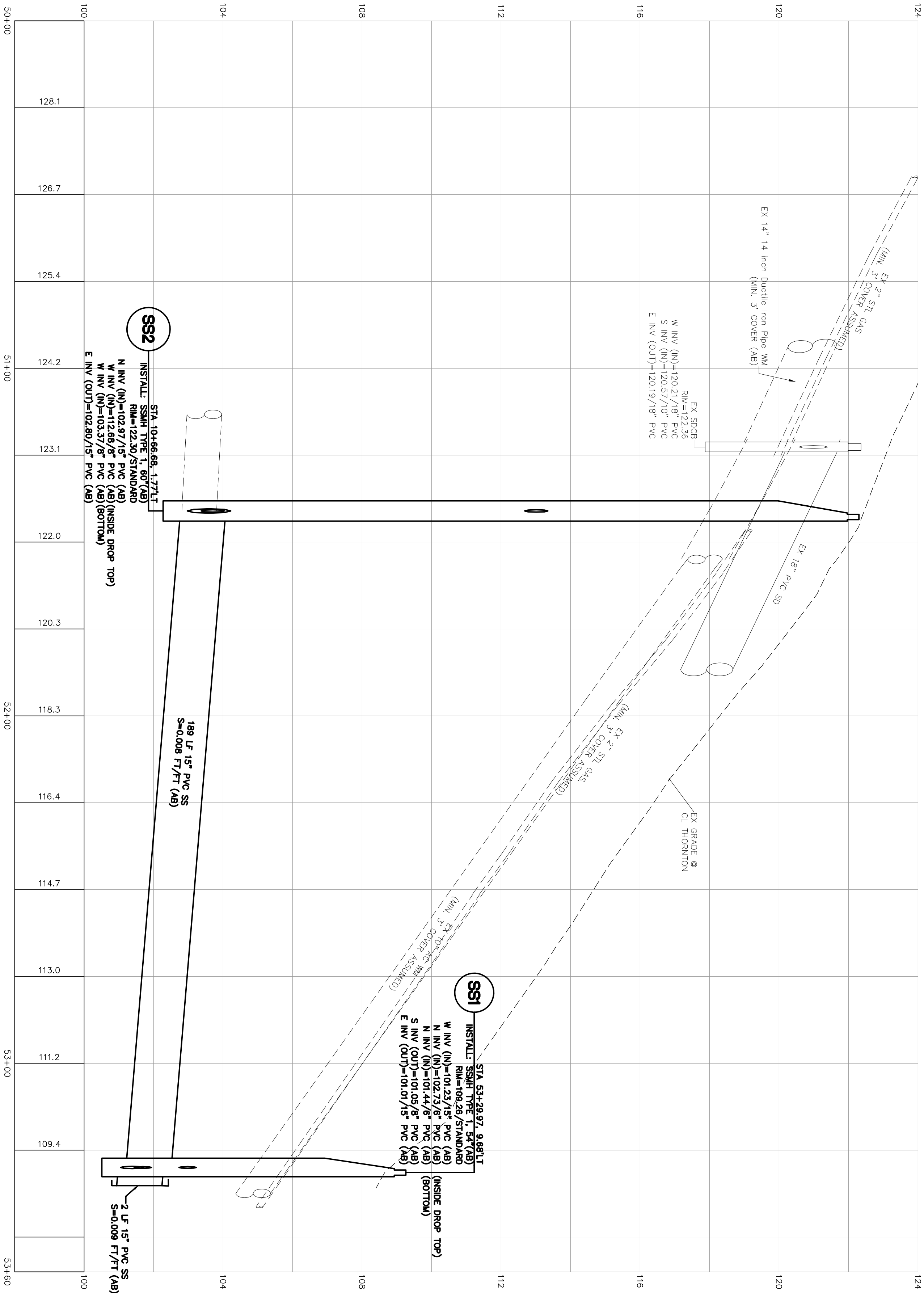
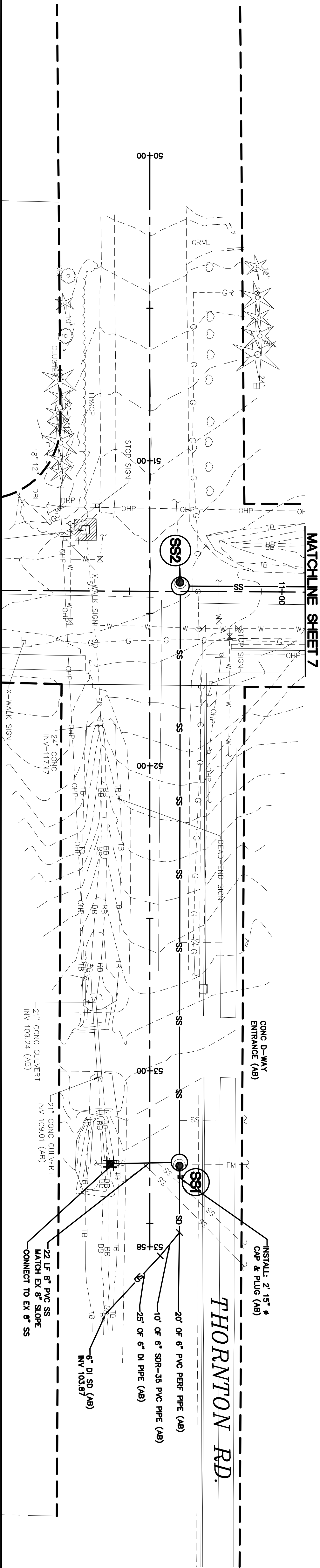




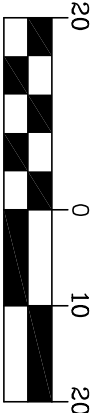
GRAPHIC SCALE



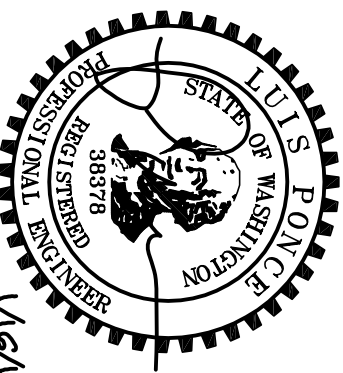
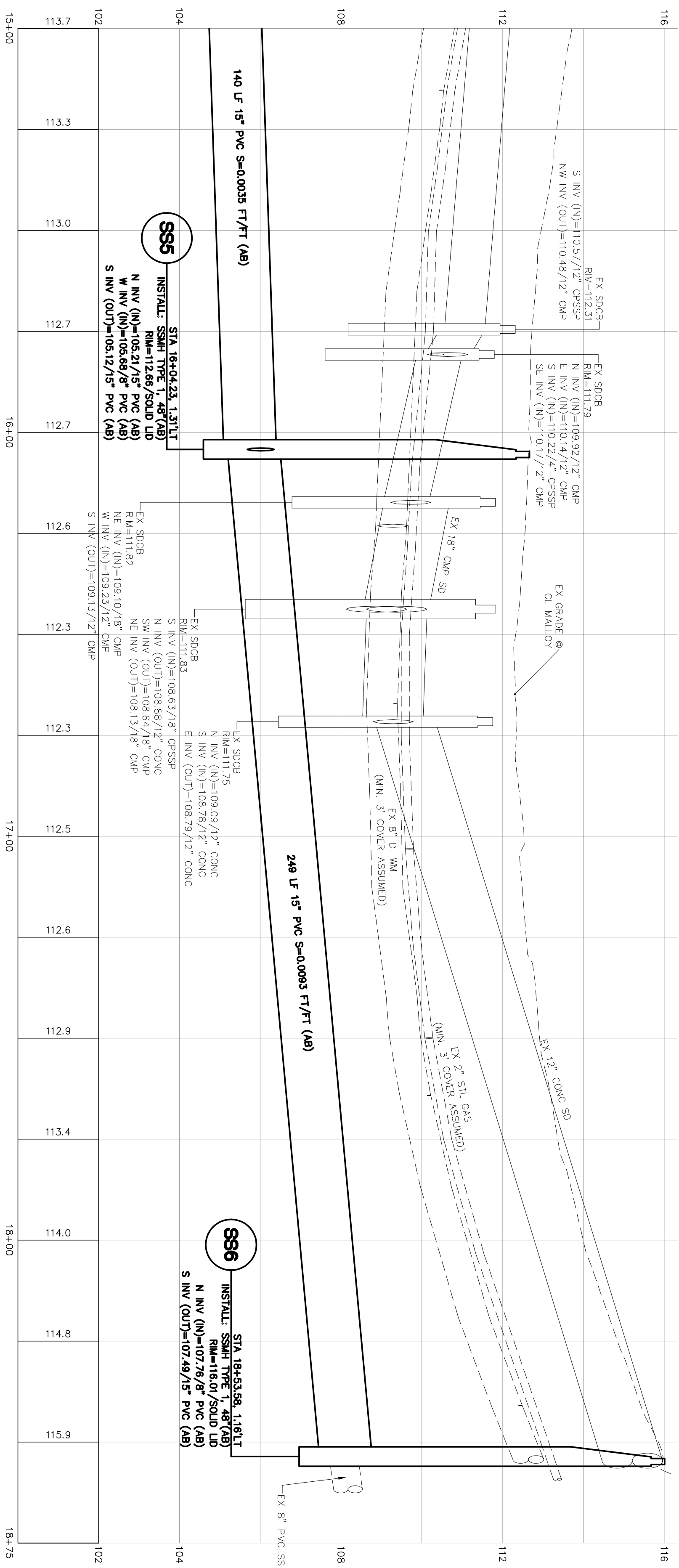
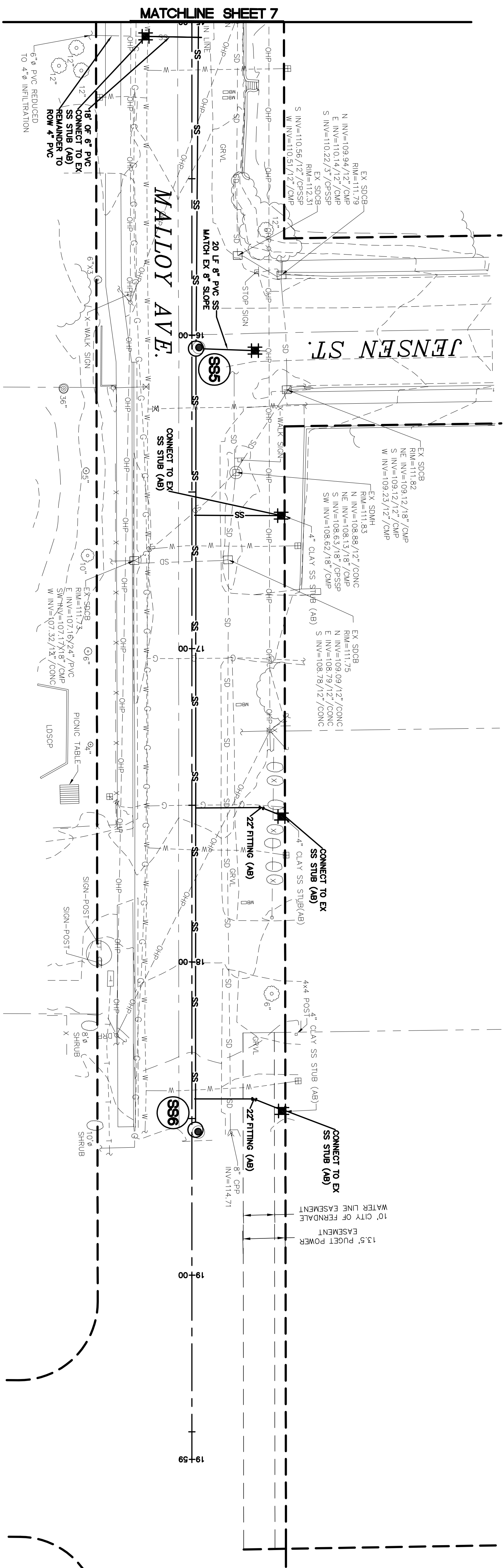
(IN FEET)
1 inch = 20 ft.



1/16/17		AS-BUILT		DESIGNED BY LP		DRAWN BY RWC/PJC		CHECKED BY LP		P.O. Box 978, 423 Front Street, Lynden, WA 98264 (360) 354-3687 813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-779		R&E Reichhardt & Ebe ENGINEERING INC		CITY OF FERNDALE 2095 MAIN STREET FERNDAL, WA 98248		MALLOY AVENUE SANITARY SEWER PROEJCT PLAN AND PROFILE - THORNTON		DWG 15009 ASBUILT	15009	SCALE H: 1"=20' V: 1"=2'	DATE 1-16-17
				NO.		DATE		DESCRIPTION		BY										SHEET 6 of 12	



(IN FEET)
1 inch = 20 ft.



DATE _____

1/16/17
AS-BUILT

DESIGNED BY
L.P.

DRAWN BY
R.W.G./P.J.C.

CHECKED BY
L.P.

R&E
Reichardt & Elbe
ENGINEERING INC

P.O. Box 978, 423 Front Street, Lynden, WA 98964 (360) 354-3687
813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1719

[illegible]

DESCRIPTION

BY			
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CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

**MALLOY AVENUE
SANITARY SEWER PROJECT
PLAN AND PROFILE - MALLOY (NORTH)**

DWG	15009
JOB #	15009

SCALE
H: 1"=20'

DATE	1-16-17
SHEET	8
	of 12

00614 008 1/25/17 SH

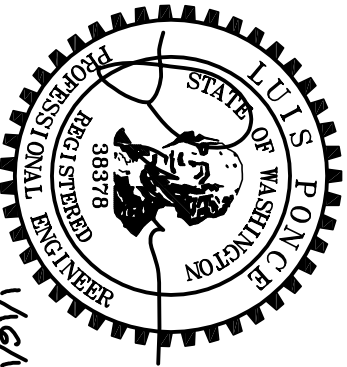
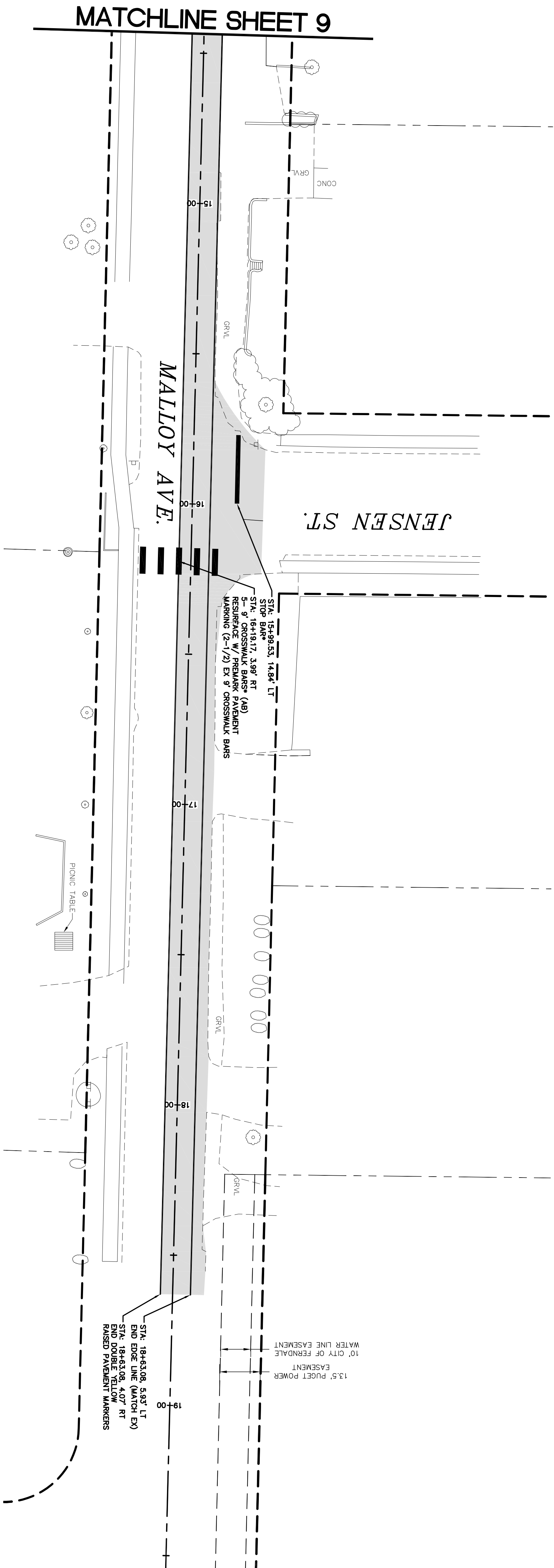
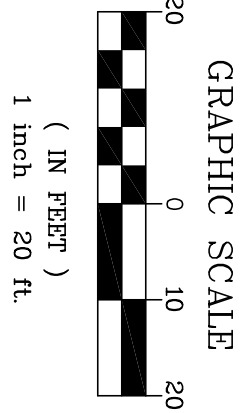


1/16/17		DESIGNED BY LP		DRAWN BY RWG/PJC		CHECKED BY LP		R&E Reichhardt & Ede ENGINEERING INC P.O. Box 9781, 1423 Front Street, Linden, WA 98264 (360) 354-3687 83 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-4713		NO.		1		11/18/15		REVISION - STRIPING		LP		BY		CITY OF FERNDALE 2095 MAIN STREET FERNDALE, WA 98248		MALLOY AVENUE SANITARY SEWER PROJECT CHANNELIZATION AND PAVING PLAN		DWG 15009 ASBUILT		DATE 1-16-17	
																								JOB# 15009		SCALE H: 1"=20' V: N/A		SHEET 9 of 12	

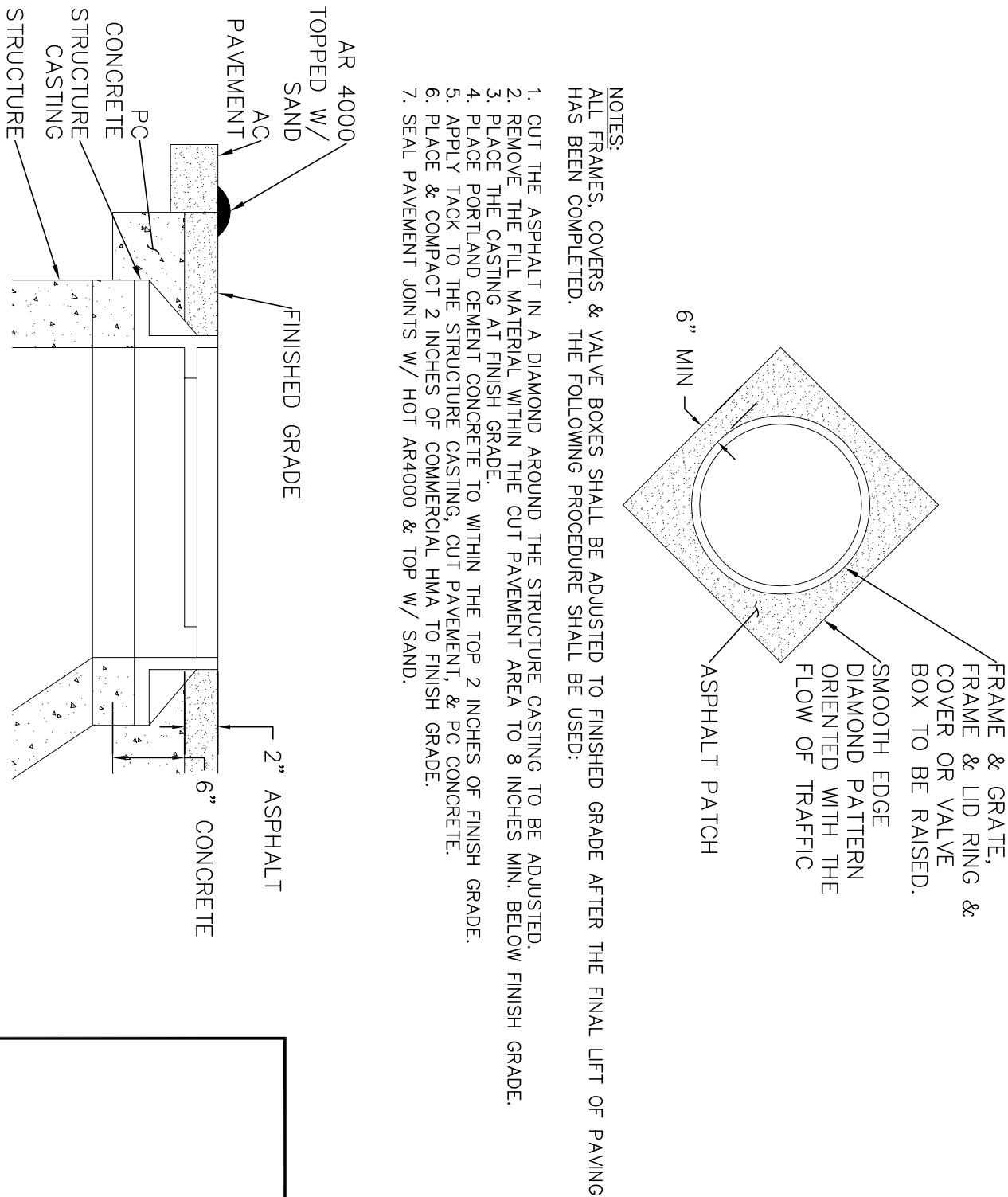
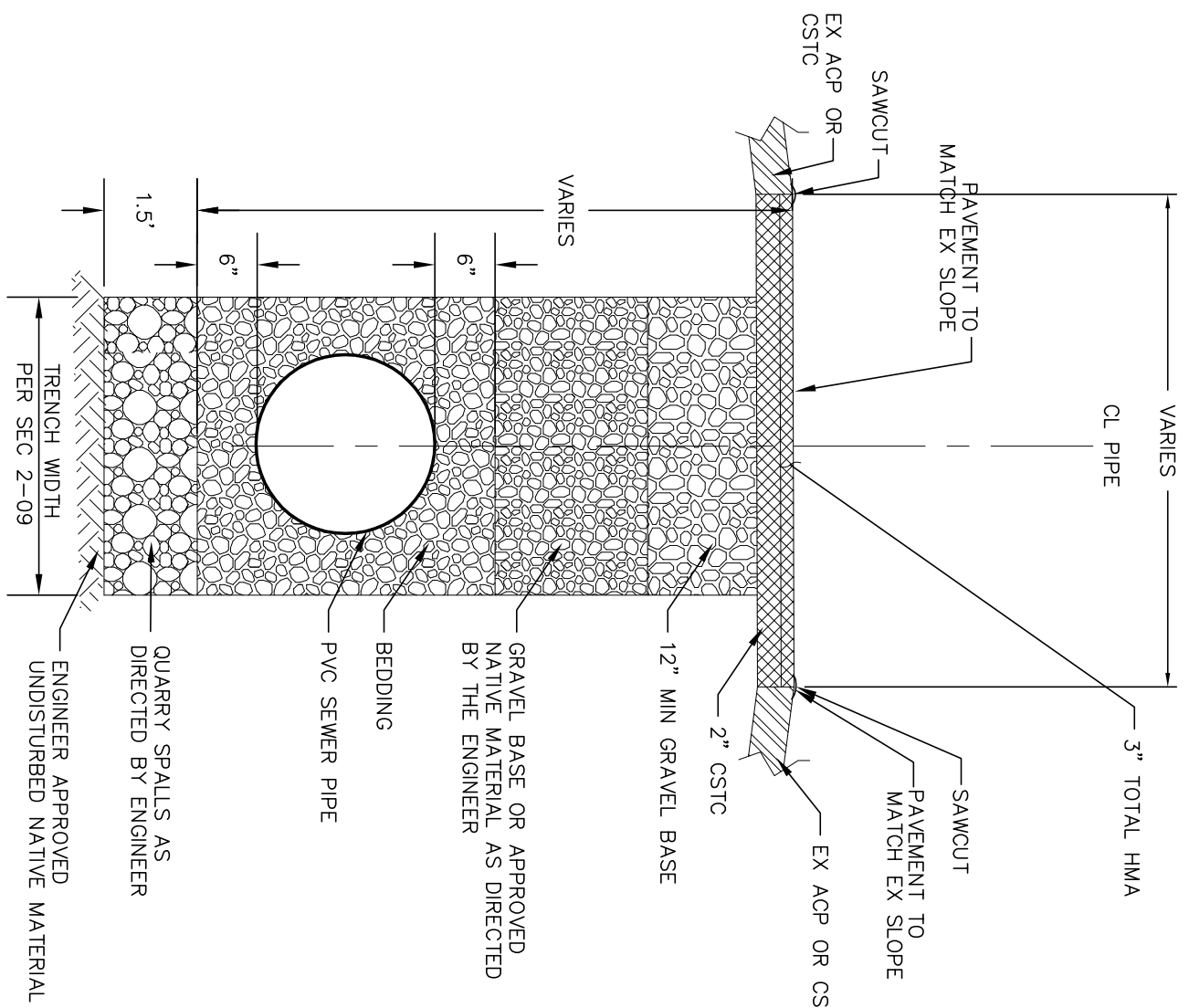


NOTE: ALL STOP BARS AND CROSSWALK LINES ARE TO BE PAINTED UNLESS OTHERWISE NOTED.

* TYPE A-LIQUID HOT APPLIED THERMOPLASTIC



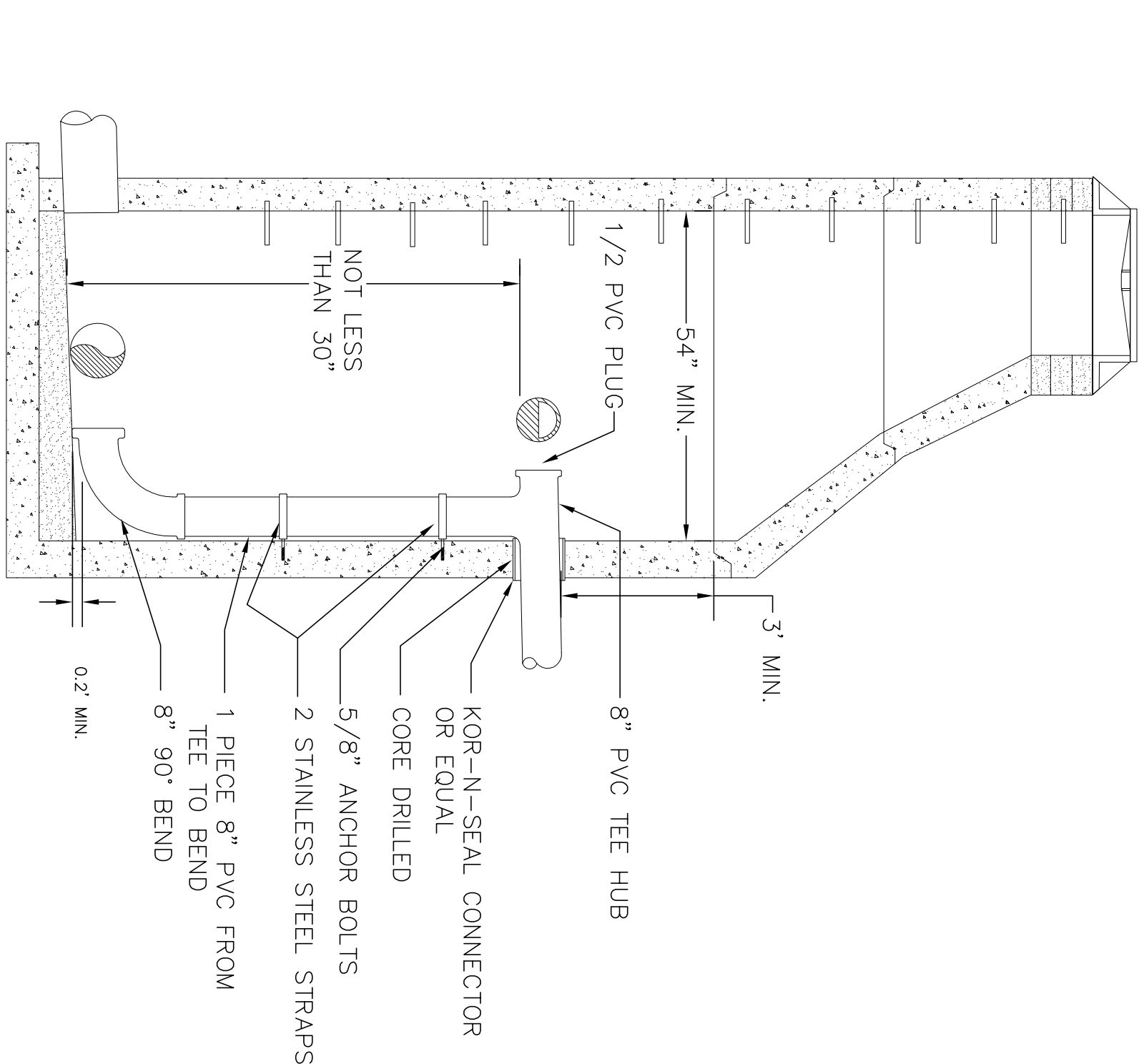
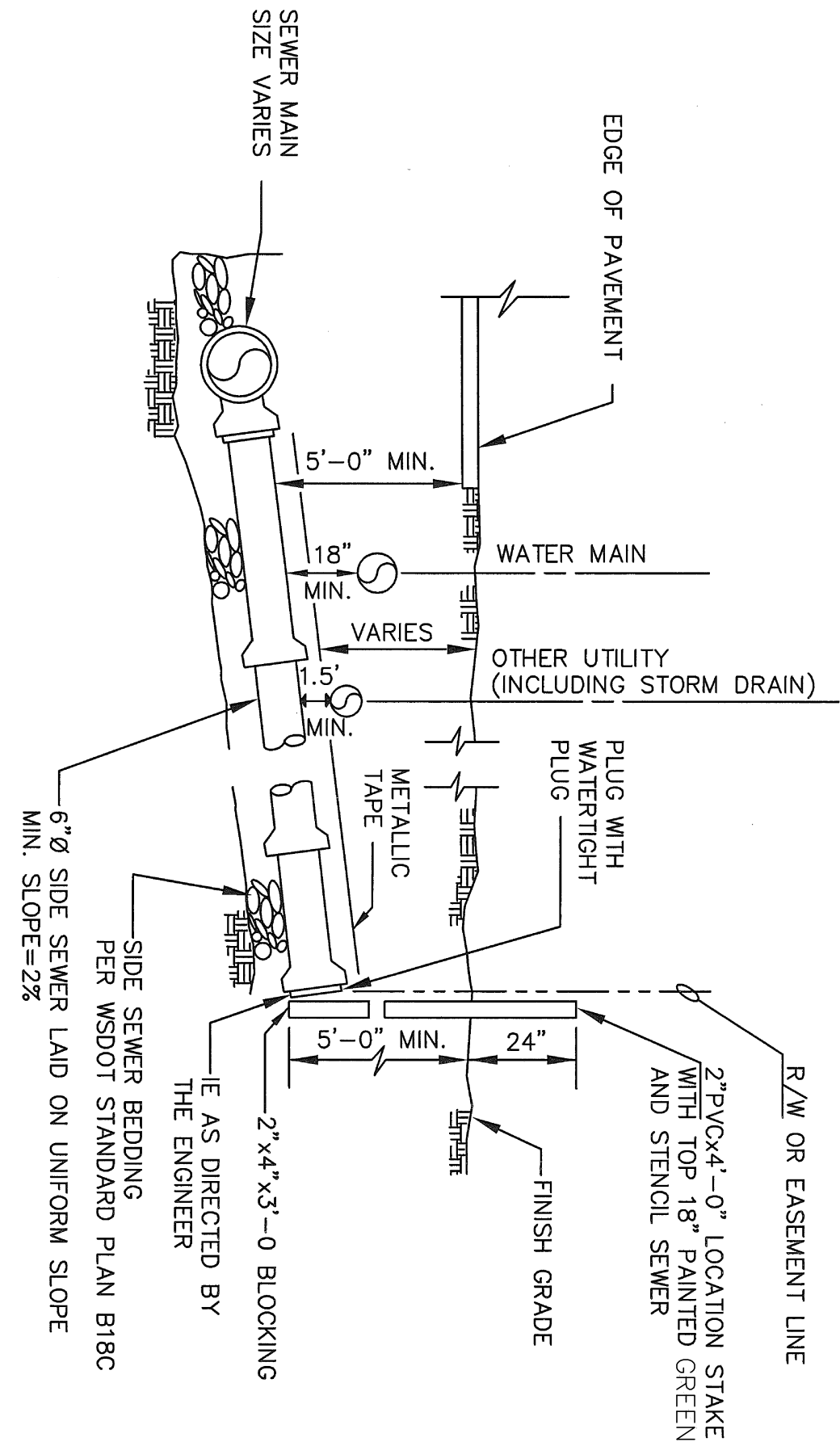
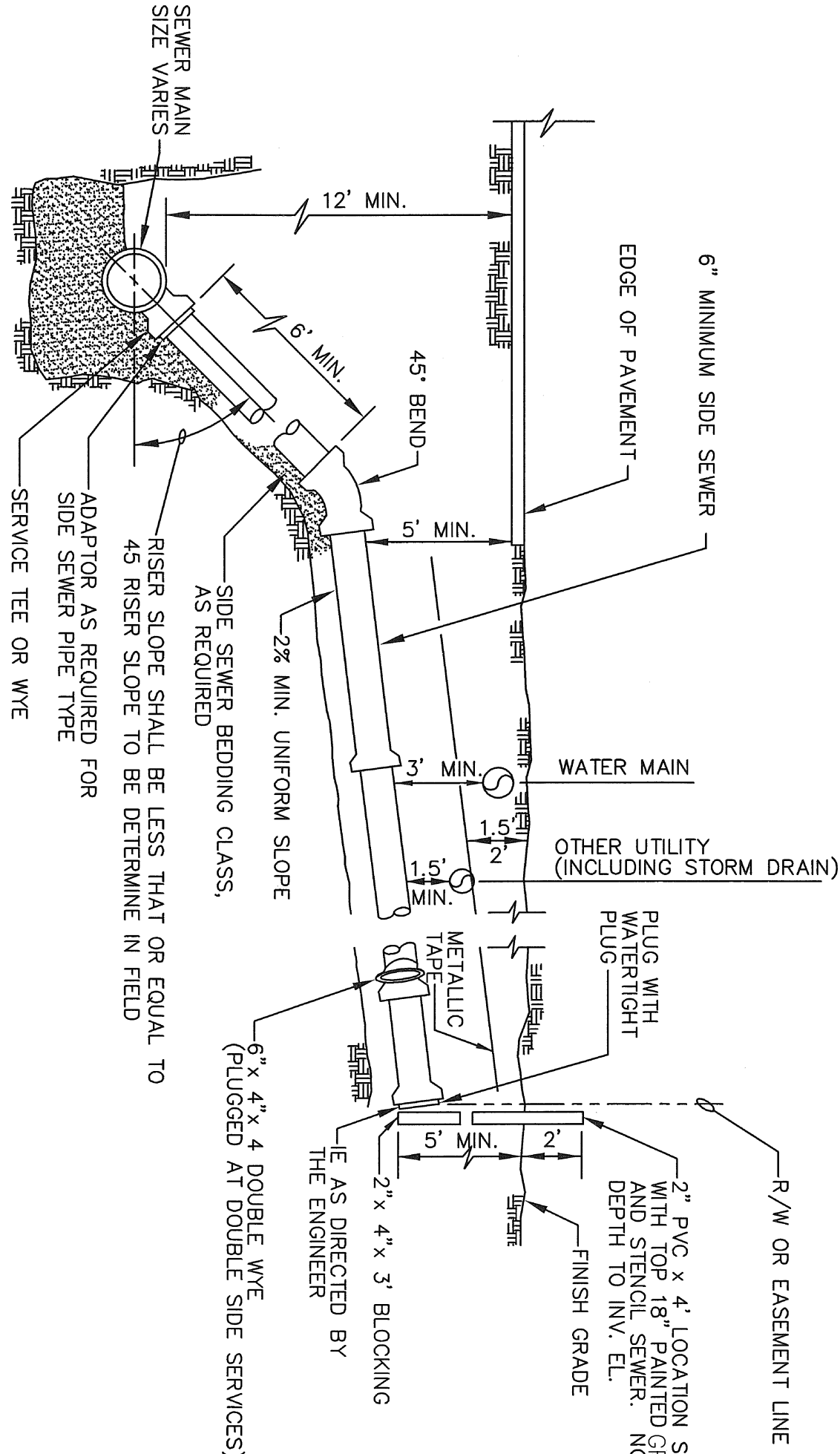
1/16/17		AS-BUILT		DESIGNED BY LP		R&E Reichhardt & Ebe ENGINEERING INC P.O. Box 978 423 Front Street, Lynden, WA 98264 (360) 354-3687 813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-773		CITY OF FERNDALE 2095 MAIN STREET FERNDAL E, WA 98248		MALLOY AVENUE SANITARY SEWER PROJECT CHANNELIZATION AND PAVING PLAN		DWG 15009 ASBUILT		DATE 1-16-17			
DRAWN BY RWG/PJC		CHECKED BY LP		NO.		DATE		REVISION - STRIPING		BY LP		JOB# 15009		SCALE H: 1"=20' V: N/A		SHEET 10 of 12	



TYPICAL TRENCH SECTION

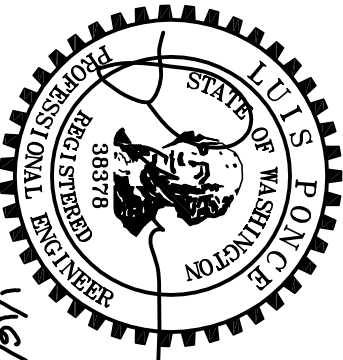
ASPHALT CONCRETE PAVEMENT SECTION

ADJUSTING CASINGS TO FINISHED GRADE



- 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 CITY.
 3. SIZE OF MANHOLE WILL INCREASE WITH LARGER DIAMETER PIPE AND SHALL BE APPROVED BY THE ENGINEER.
 4. CHANNEL TO OUTLET.

INSIDE DROP SEWER MANHOLE CONNECTION



1/16/17 AS-BUILT				DESIGNED BY LP DRAWN BY RWG/PJC CHECKED BY LP REICHARDT & EBE ENGINEERING INC 360 354-3687 383 Medical Street, Sedro-Woolley, WA 98284 (360) 355-7793 NO. DATE DESCRIPTION BY CITY OF FERNDALE 2095 MAIN STREET FERNDALÉ, WA 98248 MALLOY AVENUE SANITARY SEWER PROJEC DETAILS DWG 15009 ASBUILT JOB# 15009 SCALE H: N/A V: N/A DATE 1-16-17 SHEET 11 of 12
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