

WASHINGTON ST. VISTA DR. TO THIRD AVENUE IMPROVEMENT PROJECT

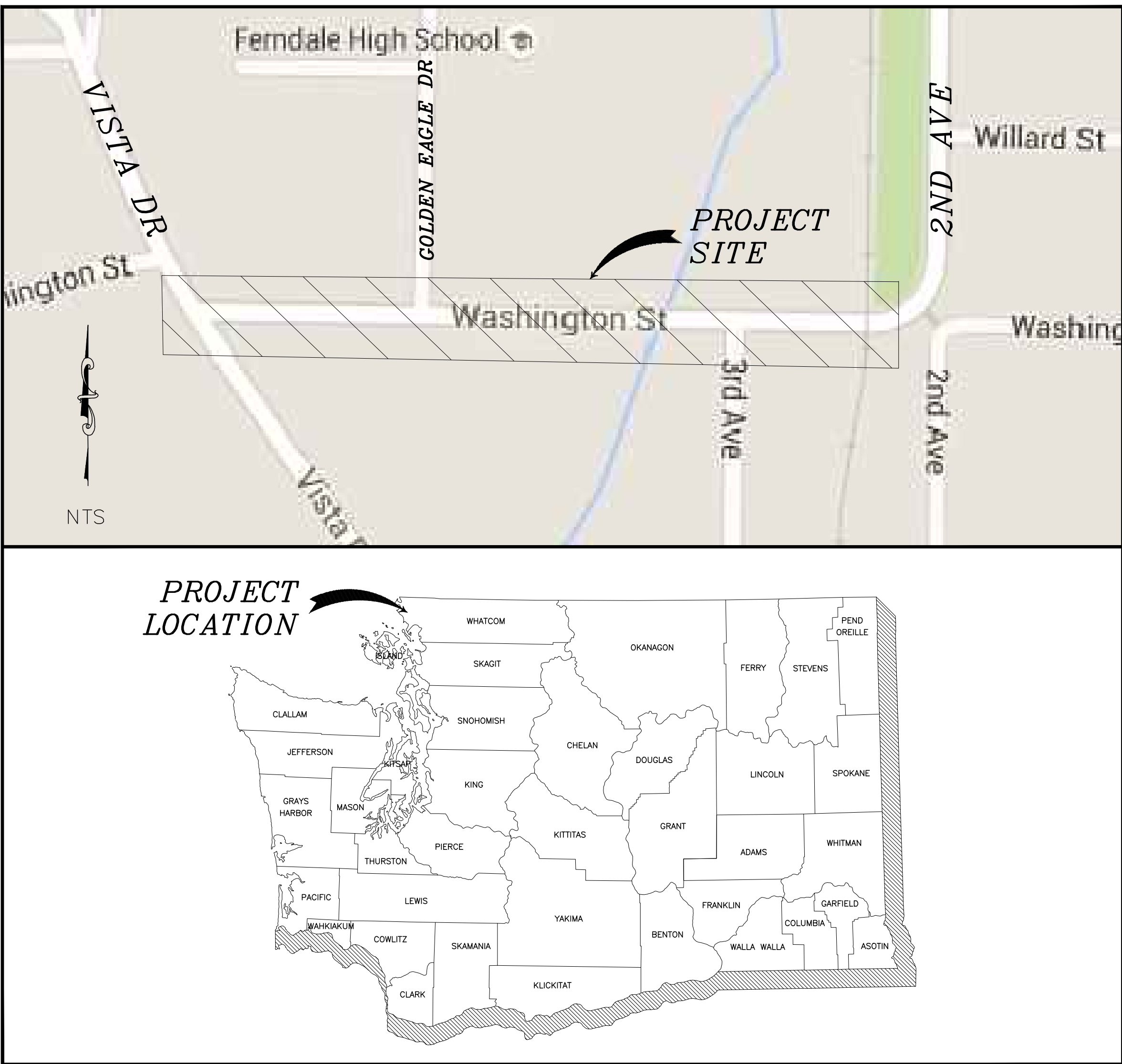
FERNDALE, WASHINGTON

CITY OF FERNDALE - PROJECT NO. ST 2014-04

TIB PROJECT NO. 8-2-985(008)-1

VICINITY MAP

PROJECT LOCATED IN SECTION 20, TOWNSHIP 39N, RANGE 2E, W.M.



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BID SET

DESIGNED BY
KEC
DRAWN BY
PJC
CHECKED BY
LP



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) 855-1713

NO.	DATE	DESCRIPTION	BY	

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
COVER

DWG 15036 PROBASE

DATE 5/10/2016

JOB#
15036

SCALE
H: N/A

V: N/A

SHEET
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of 17

ABBREVIATIONS

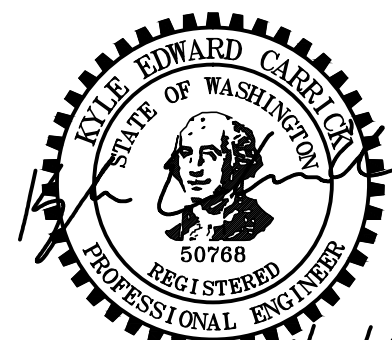
Ø	= DIAMETER	EX, EXIST	= EXISTING	MON	= MONUMENT	SCH	= SCHEDULE
AC	= ASBESTOS CEMENT	IR	= EXISTING IRRIGATION	MPOC	= MID-POINT ON CURVE	SD	= STORM DRAIN
AD	= ALGEBRAIC DIFFERENCE	F&C	= FRAME AND COVER	MTR	= METER	SDCB	= STORM DRAIN CATCH BASIN
ASPH	= ASPHALT	F&G	= FRAME AND GRATE	MW	= MONITORING WELL	SDMH	= STORM DRAIN MANHOLE
BLDG	= BUILDING	FF	= FINISHED FLOOR	N	= NORTH	SE	= SOUTHEAST
BVCE	= BEGIN VERTICAL CURVE ELEVATION	FG	= FINISHED GRADE	NE	= NORTHEAST	SN	= EXISTING SIGN
BVCS	= BEGIN VERTICAL CURVE STATION	FL	= FLOW LINE	NW	= NORTHWEST	SP	= STANDARD PLAN
C&G	= CURB & GUTTER	FT	= FEET	OC	= ON CENTER	SSMH	= SANITARY SEWER MANHOLE
CATV	= CABLE TELEVISION	FT/FT	= FEET PER FOOT	PMVMT	= PAVEMENT	STA	= STATION
CDF	= CONTROLLED DENSITY FILL	GALV	= GALVANIZED	PC	= POINT OF CURVATURE	STD	= STANDARD
CL	= CLASS, CENTERLINE	GRVL	= GRAVEL	PCC	= POINT OF COMPOUND CURVATURE, PORTLAND CEMENT CONCRETE	SW	= SOUTHWEST
CMP	= CORRUGATED METAL PIPE	GV	= GATE VALVE	PED	= PEDESTAL	TEL	= TELEPHONE
CMU	= CONCRETE MASONRY UNIT	HDPE	= HIGH DENSITY POLYETHYLENE	POC	= POINT ON CURVE	TL	= TRAFFIC LOOP
COMP	= COMPACTED	HMA	= HOT MIX ASPHALT	POSS	= POSSIBLE	TYP	= TYPICAL
CON	= CONIFER	HP	= HIGH POINT	PRC	= POINT OF REVERSE CURVE	UP	= UTILITY POLE
CONC	= CONCRETE	HYD	= HYDRANT	PROP	= PROPOSED	UTL	= UTILITY
CONT	= CONTOUR	IE, INV	= INVERT ELEVATION	PT	= POINT OF TANGENCY	VC	= VERTICAL CURVE
CPSSP	= CORRUGATED POLYETHYLENE STORM SEWER PIPE	IW	= INJECTION WELL	PV	= POINT OF VERTICAL INTERSECTION	VLT	= VAULT
CULV	= CULVERT	L	= LENGTH	PVC	= POLYVINYL CHLORIDE	VPC	= VERTICAL POINT OF CURVATURE
D/W	= DRIVEWAY	LDSCL	= LANDSCAPING	PVI	= POINT OF VERTICAL INTERSECTION	VPI	= VERTICAL POINT OF INTERSECTION
DEC	= DECIDUOUS	LF	= LINEAR FEET	PWR	= POWER	VPT	= VERTICAL POINT OF TANGENCY
DI	= DUCTILE IRON	LOC	= LOCATION	R	= RADIUS	W	= WEST
E	= EAST	LP	= LOW POINT	R&C	= RING AND COVER	WM	= WATER METER
EOP, EP	= EDGE OF PAVEMENT	LT	= LEFT	RET	= RETAINING	WSDOT	= WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
EQUIV	= EQUIVALENT	MAX	= MAXIMUM	ROW	= RIGHT OF WAY	XEOA	= EXISTING EDGE OF ASPHALT
EVCE	= END VERTICAL CURVE ELEVATION	MIN	= MINIMUM	RT	= RIGHT		
EVL	= END VERTICAL CURVE STATION	MOD	= MODIFIED	S	= SOUTH		

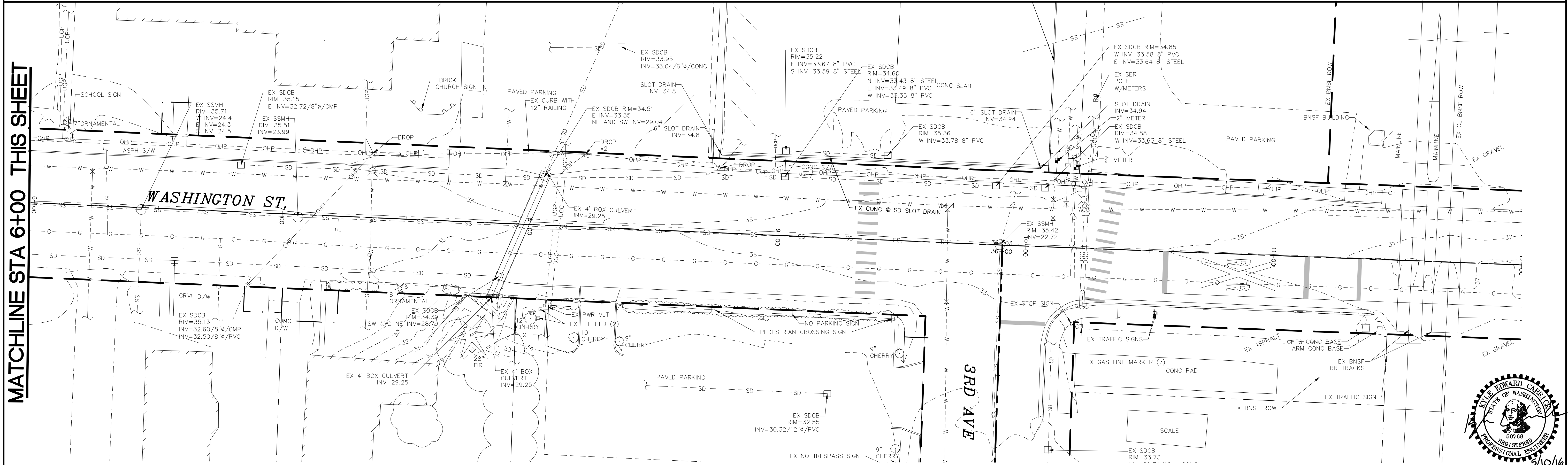
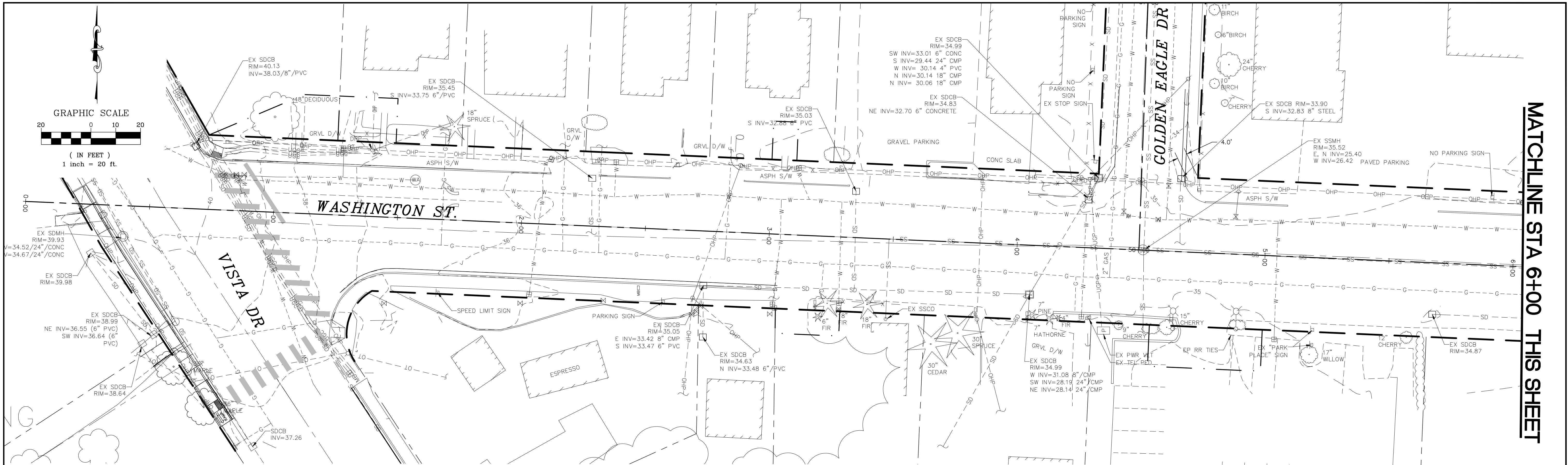
NOTES

1. FIELD WORK PERFORMED BY COMPASS POINT SURVEY, LYNDAN, WA. TOPOGRAPHIC SURVEY PERFORMED IN MARCH AND MAY, 2013. AND JANUARY 2016
2. HORIZONTAL DATUM: WASHINGTON STATE PLANE (NORTH) COORDINATES - NAD 83-2011, VERTICAL DATUM: NAVD 88

LEGEND

EXISTING	PROPOSED





MATCHLINE STA 6+00 THIS SHEET

MATCHLINE STA 6+100 THIS SHEET

BID SET

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CITY OF FERNDAL
2095 MAIN STREET
FERNDAL, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
EXISTING CONDITIONS

DWG 15036 PROBASE

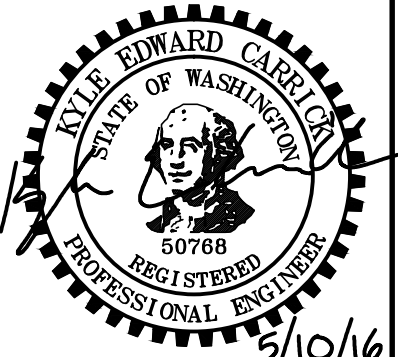
JOB#
15036

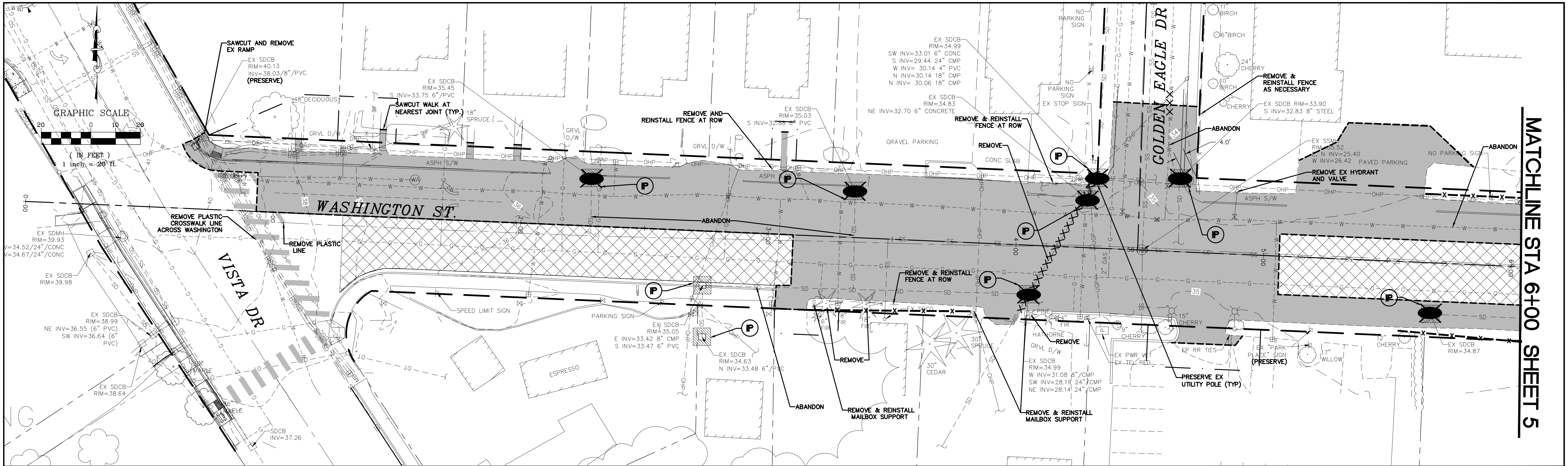
SCALE
H: 1"=20'

V: NA

DATE
5/10/2016

SHEET
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of 17





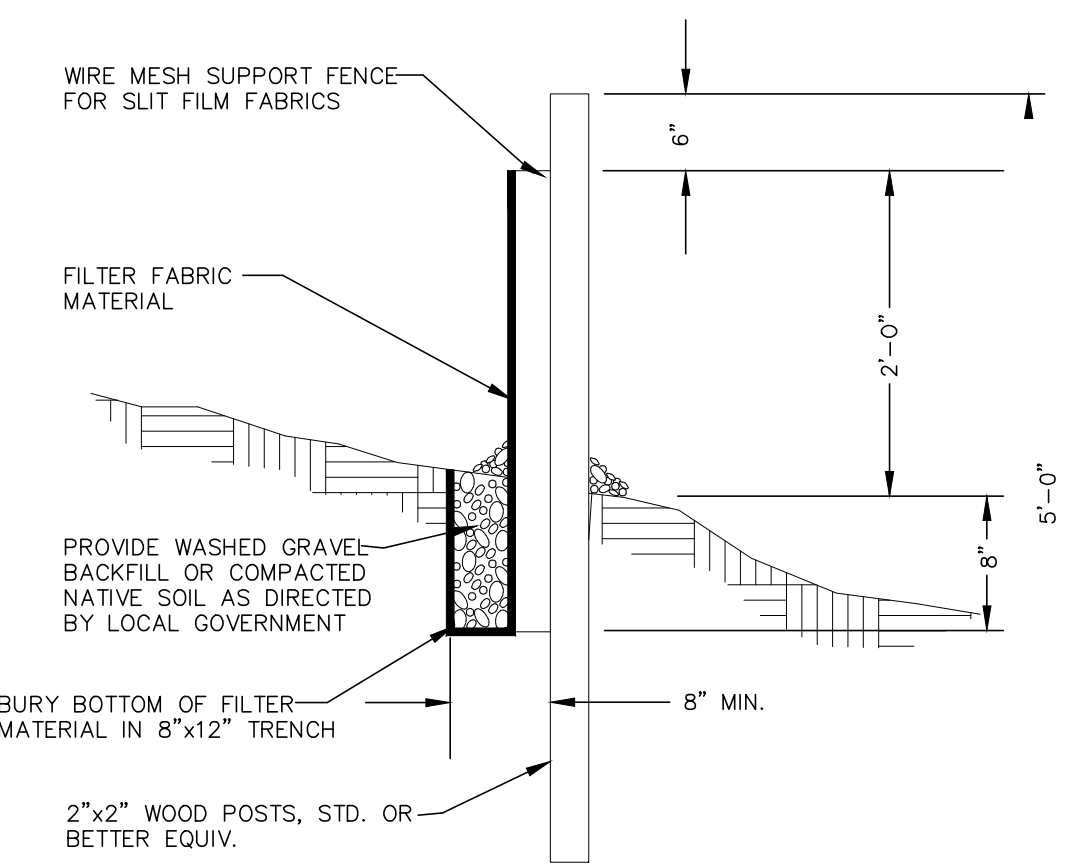
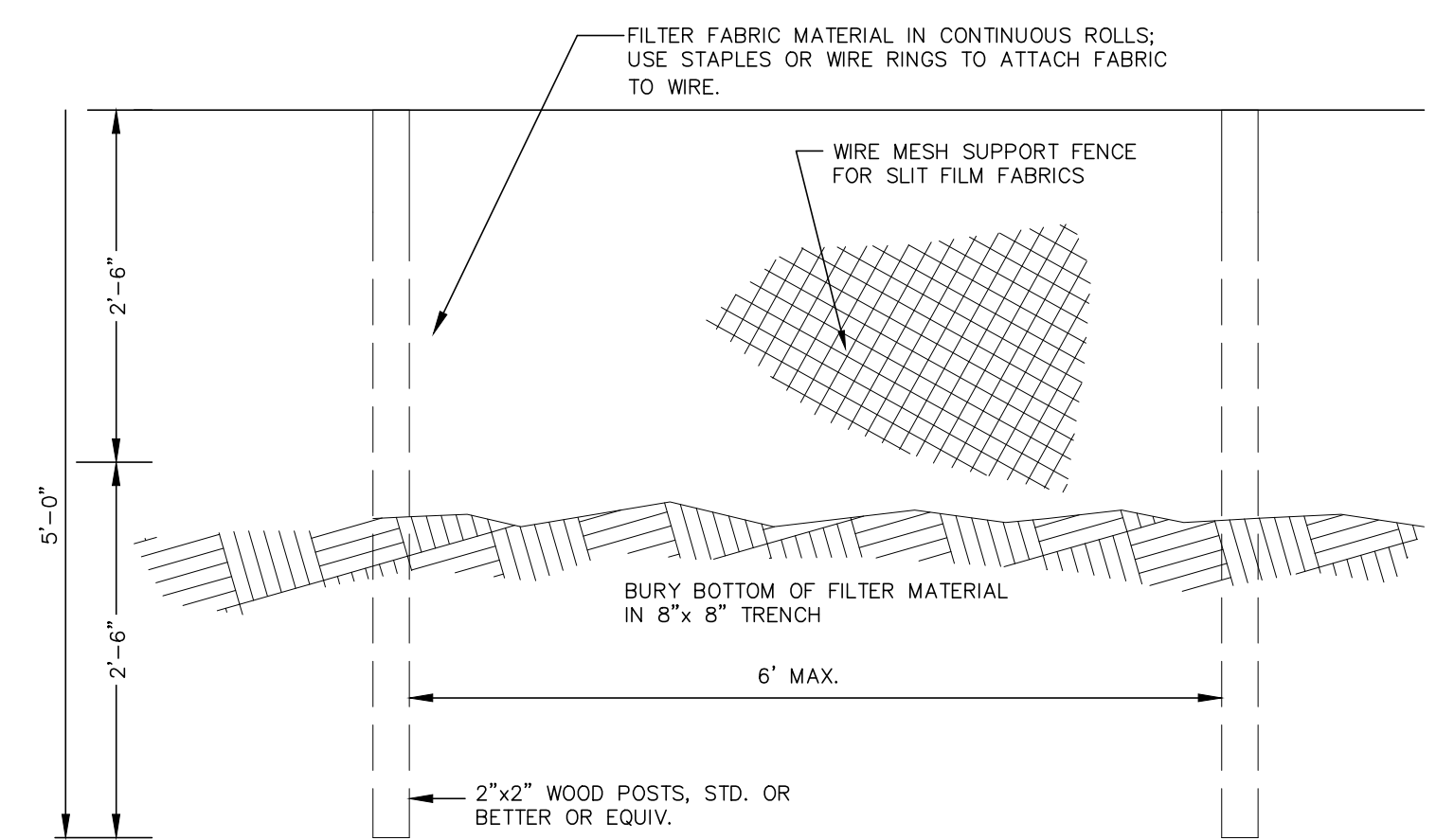
MATCHLINE STA 6+00 SHEET 5

TESC PLAN LEGEND

- SYMBOL**
- WASHINGTON STATE DEPT. OF ECOLOGY
BEST MANAGEMENT PRACTICES (BMP)
REF.: STORMWATER MANAGEMENT MANUAL
FOR WESTERN WASHINGTON, 2012
- FF** BMP C103 AND C233: CLEARING LIMITS AND FILTER FABRIC FENCE (SILT FENCE) - SEE DETAIL SHEET
 - SC** BMP C105 AND C140: STREET CLEANING
 - P** BMP C220 INLET PROTECTION - PLACE SEDIMENT FILTER AROUND OR OVER CATCH BASINS

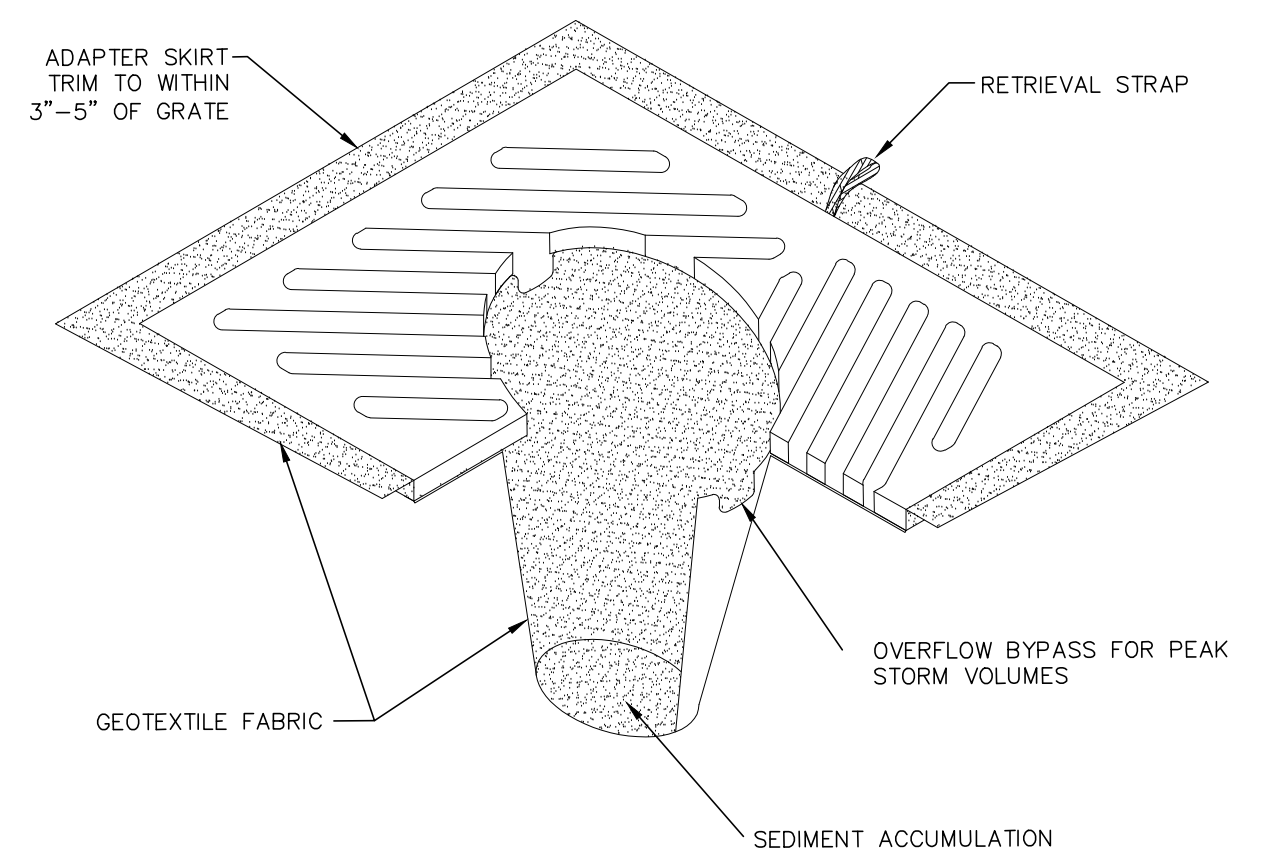
DEMOLITION PLAN LEGEND

- PROPOSED CONCRETE/ASPHALT REMOVAL
- PROPOSED PLANING
- SAWCUT FULL DEPTH OF PAVEMENT
- REMOVE EX SDCB



FILTER FABRIC FENCE DETAIL

NTS



NOTES:

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

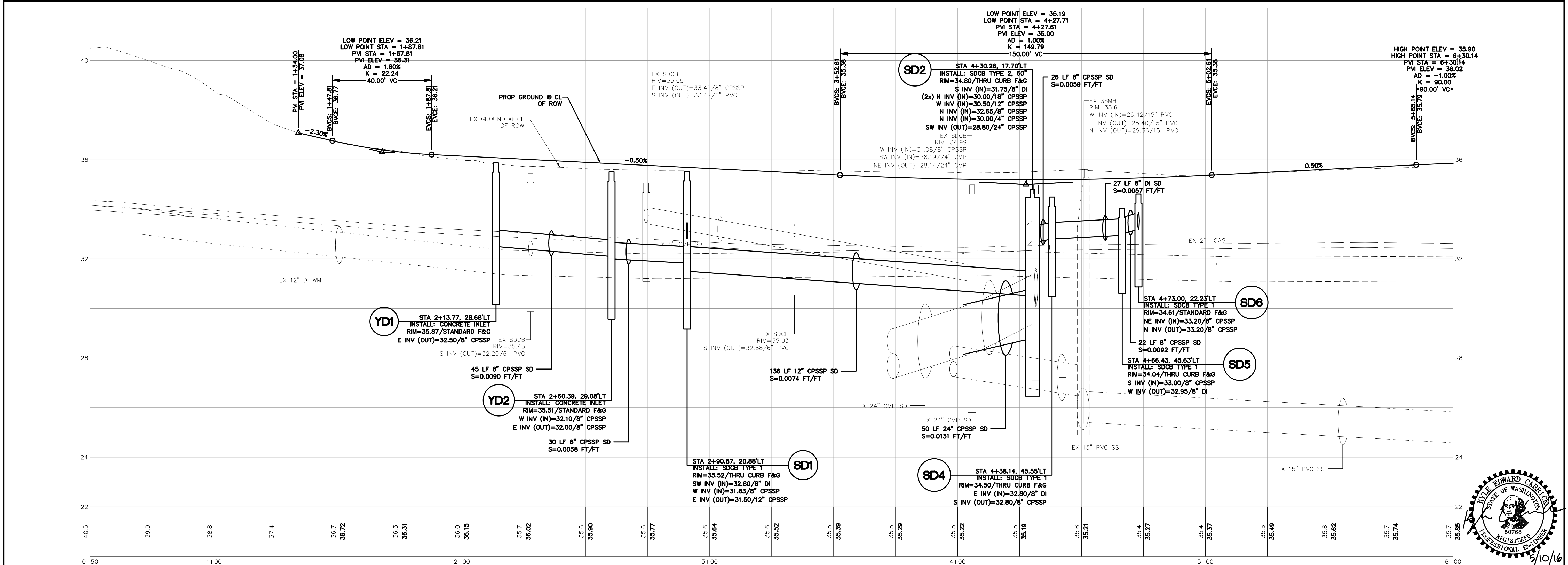
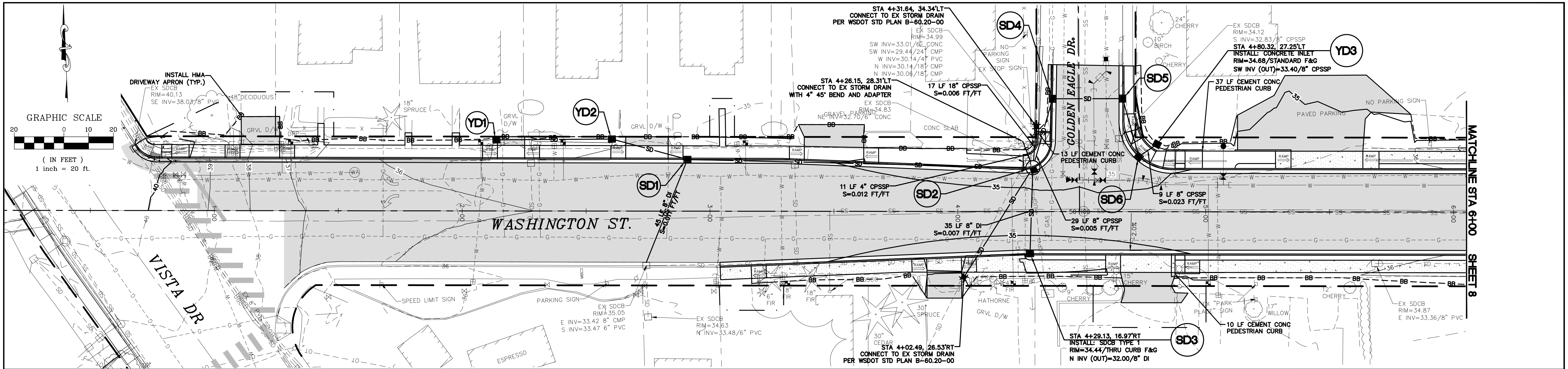
CATCH BASIN INSERT

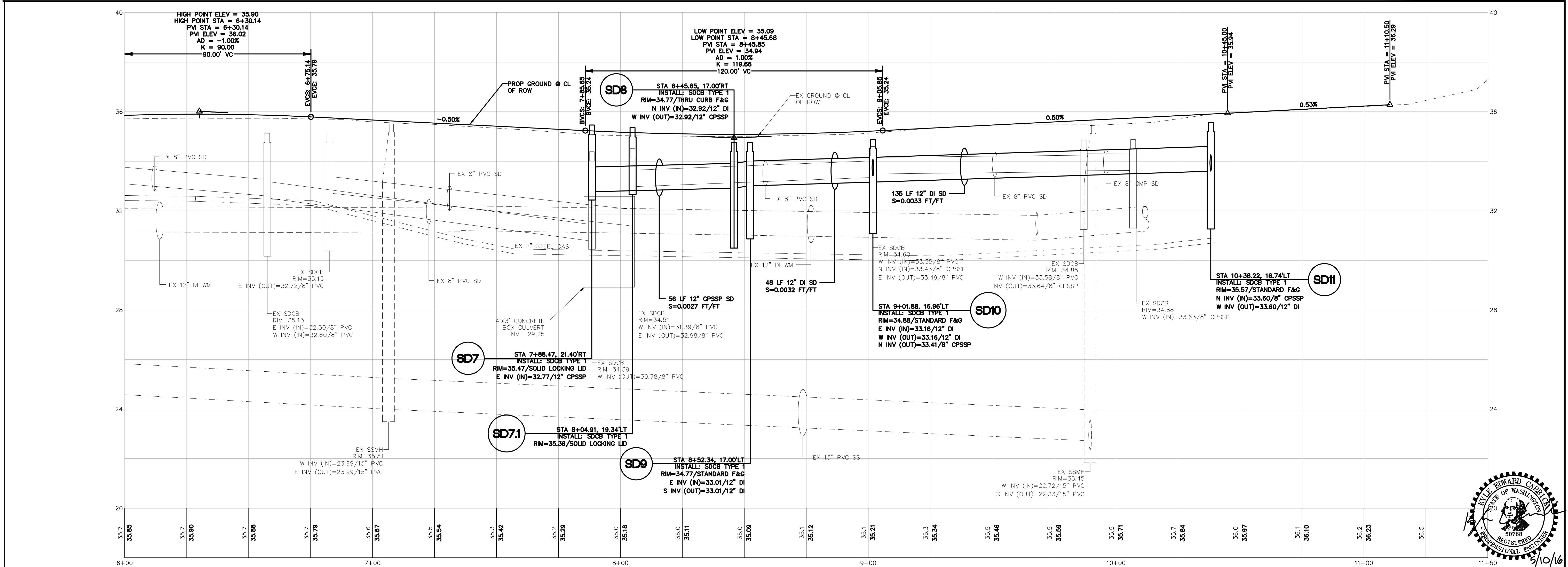
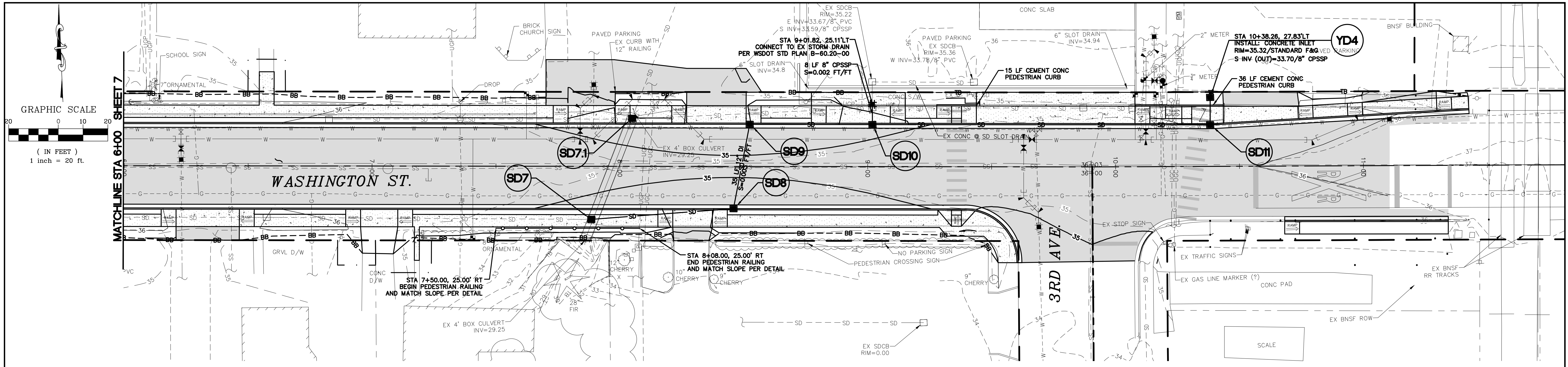
NTS

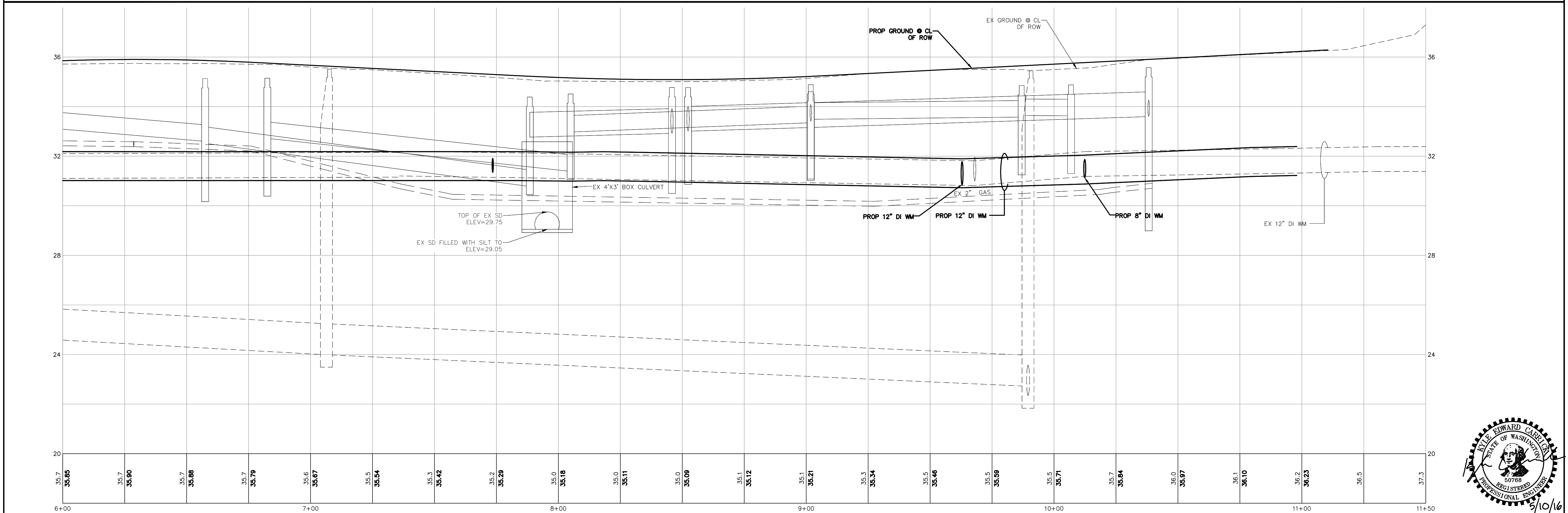
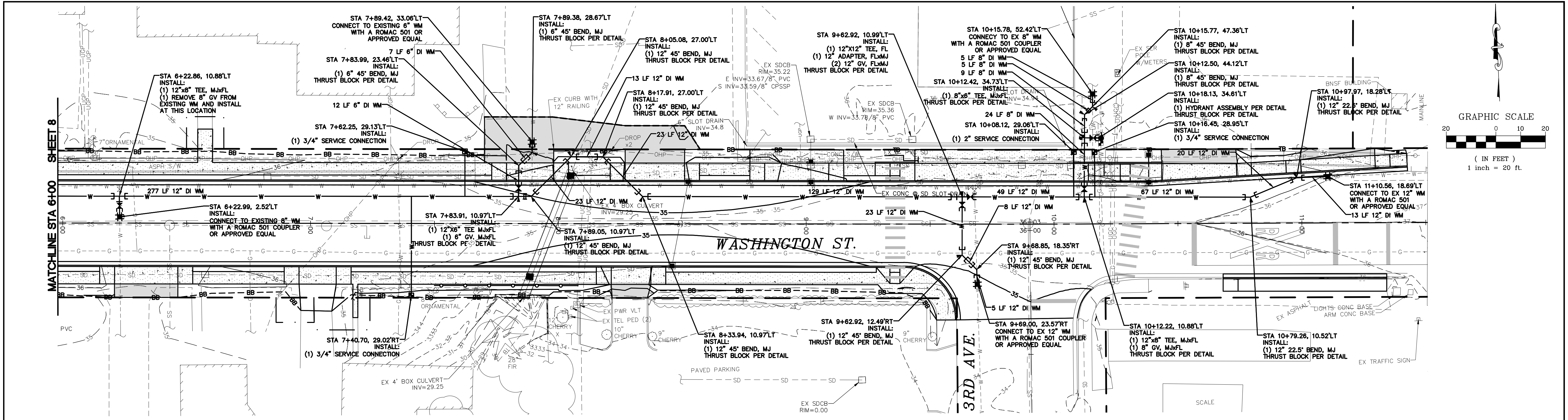


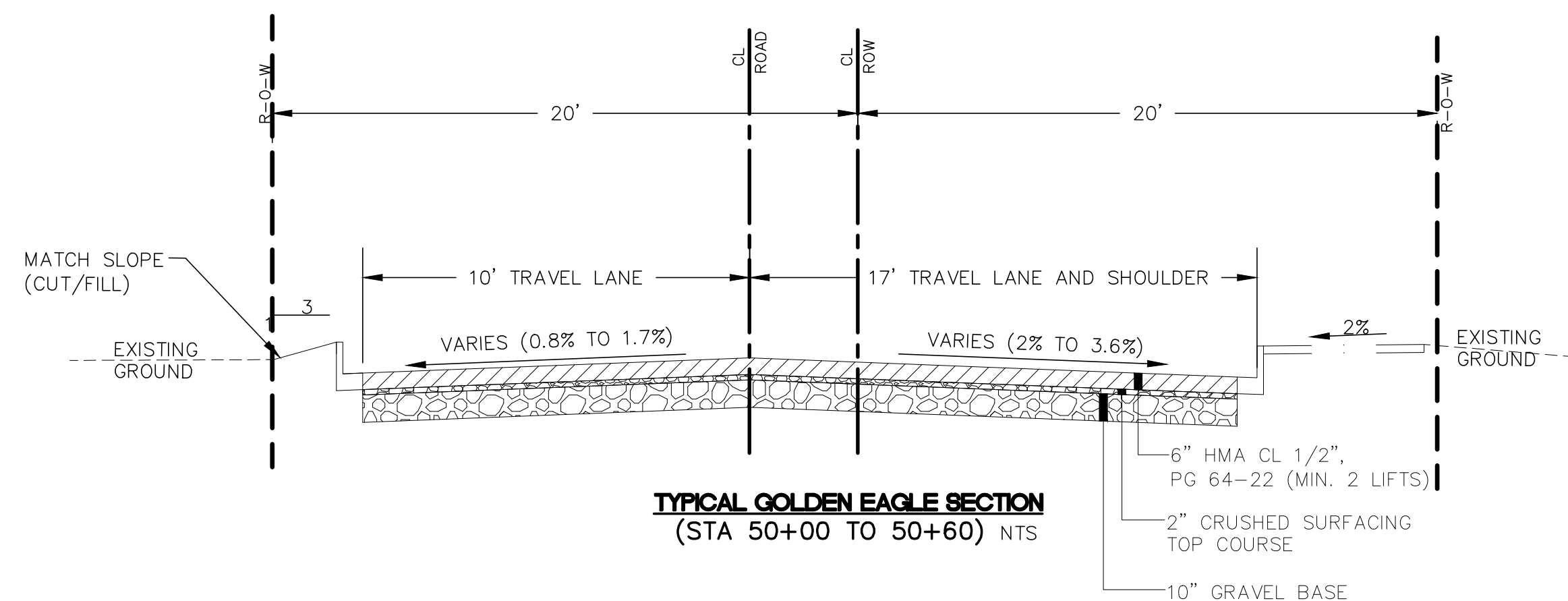
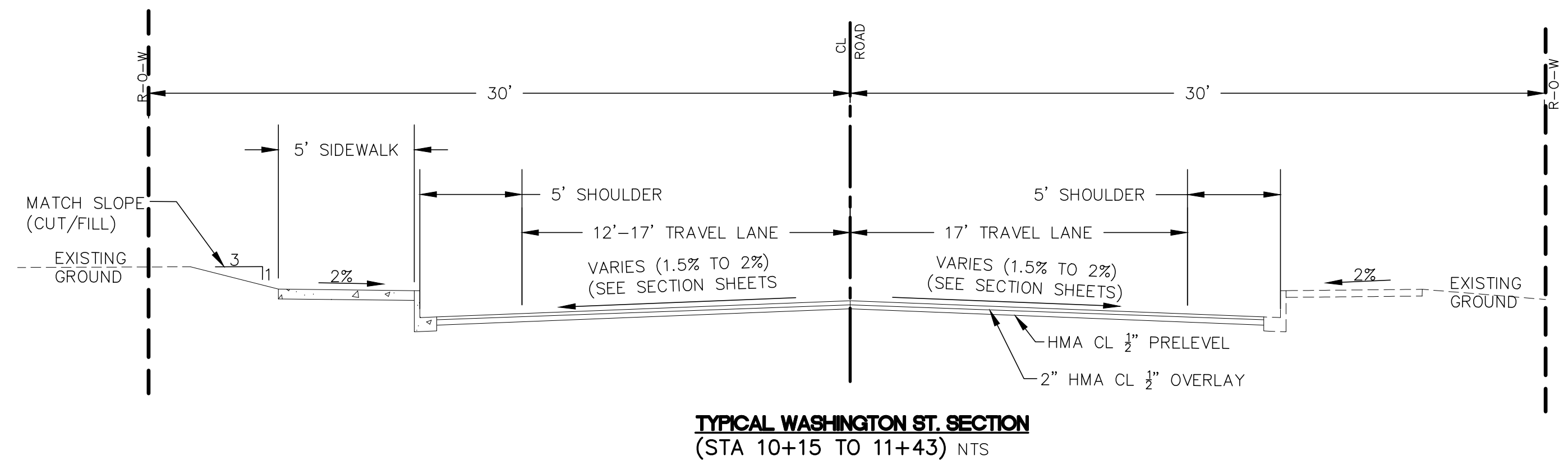
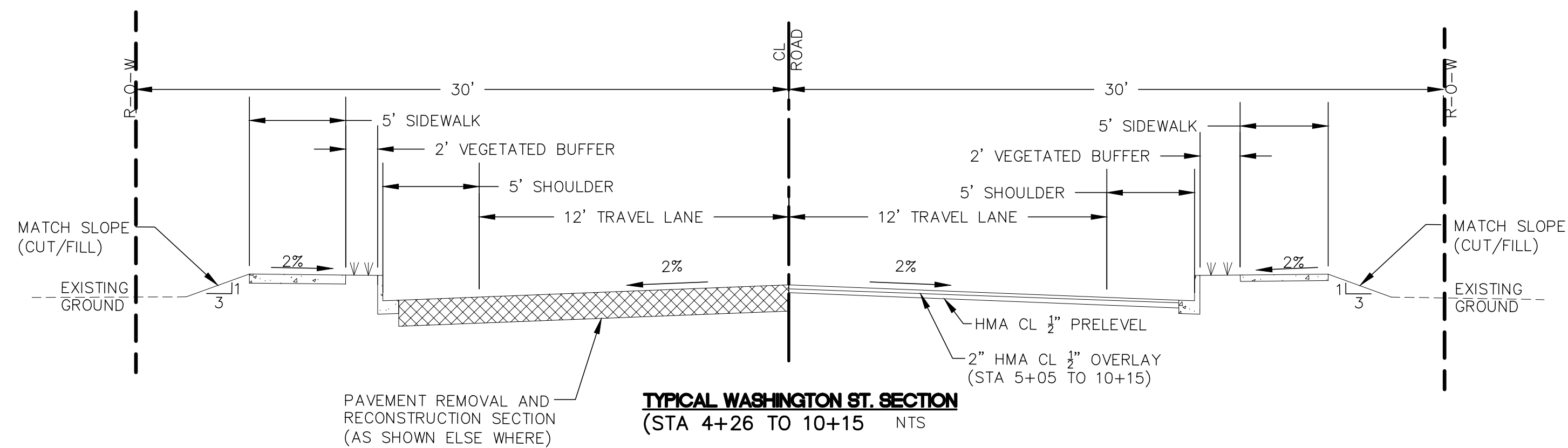
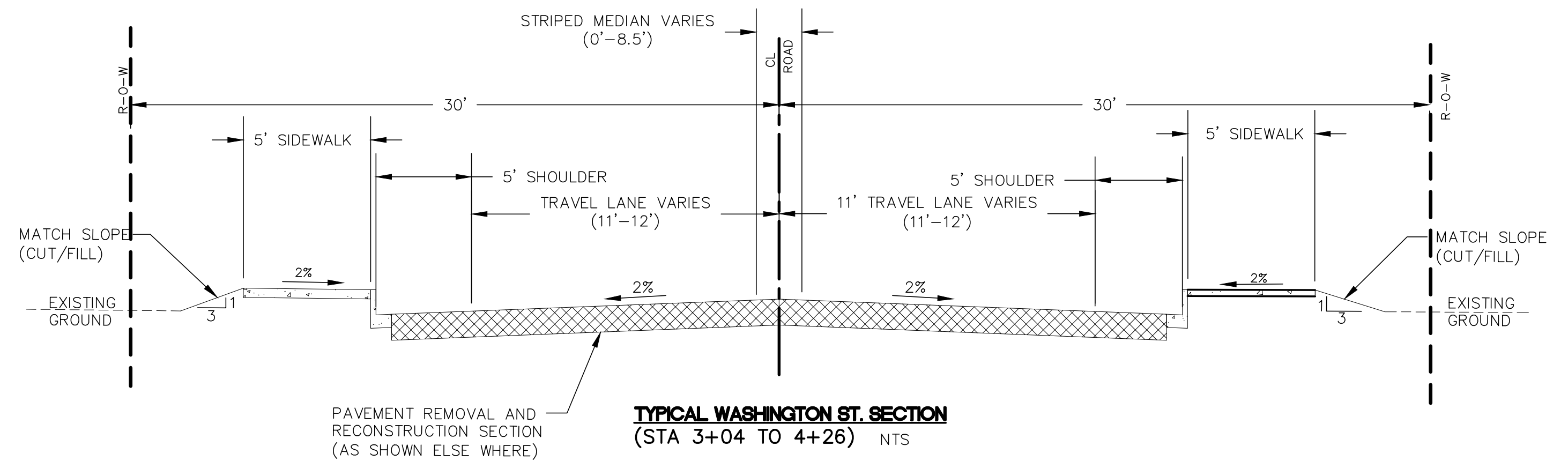
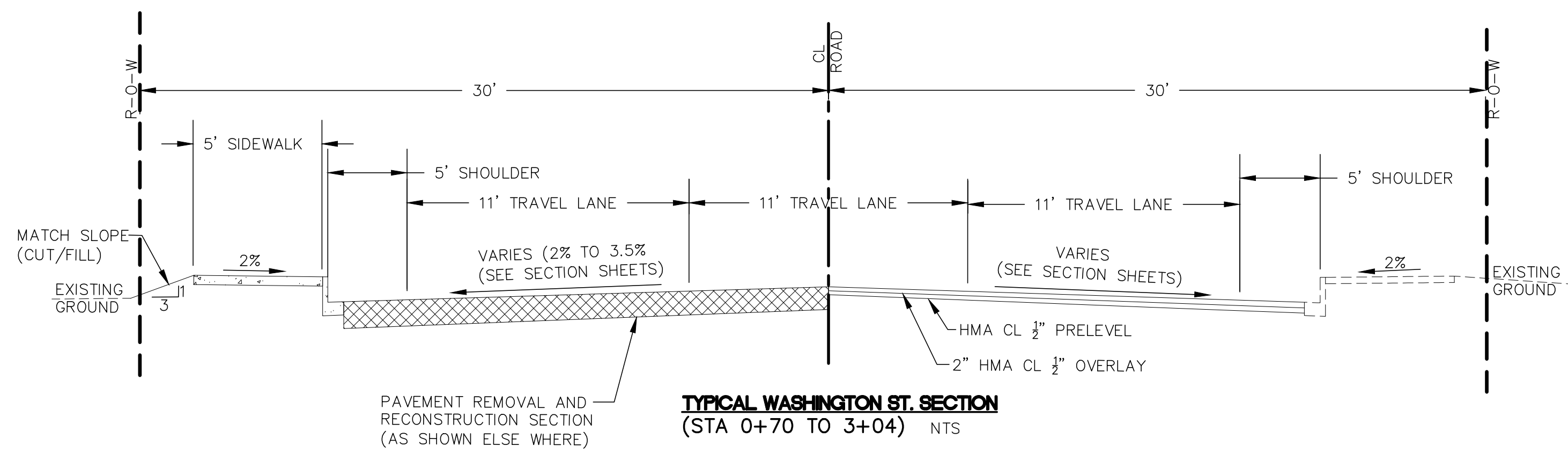
5/10/16

BID SET	DESIGNED BY KEC	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) 855-1713					CITY OF FERNDAL 2095 MAIN STREET FERNDAL, WA 98248	WASHINGTON STREET VISTA DR. TO THIRD AVENUE PROJECT TESC AND DEMO PLAN STA 0+00 - 6+00	DWG 15036 PROBASE		DATE 5/10/2016
	DRAWN BY PJC								JOB# 15036	SCALE H: 1"=20' V: 1"=2'	SHEET 4 of 17
	CHECKED BY KEC										
					NO.	DATE			DESCRIPTION	BY	









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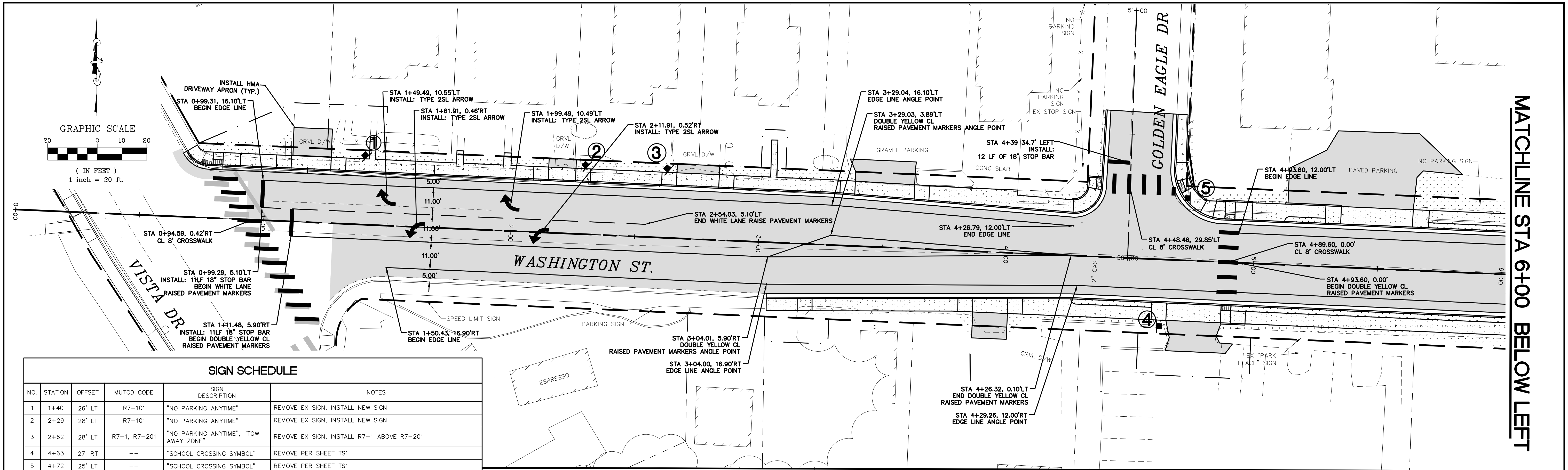
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
TYPICAL SECTIONS

DWG 15036 PROBASE
JOB# 15036
SCALE H: NTS V: NTS

DATE 5/10/2016
SHEET 11 of 17

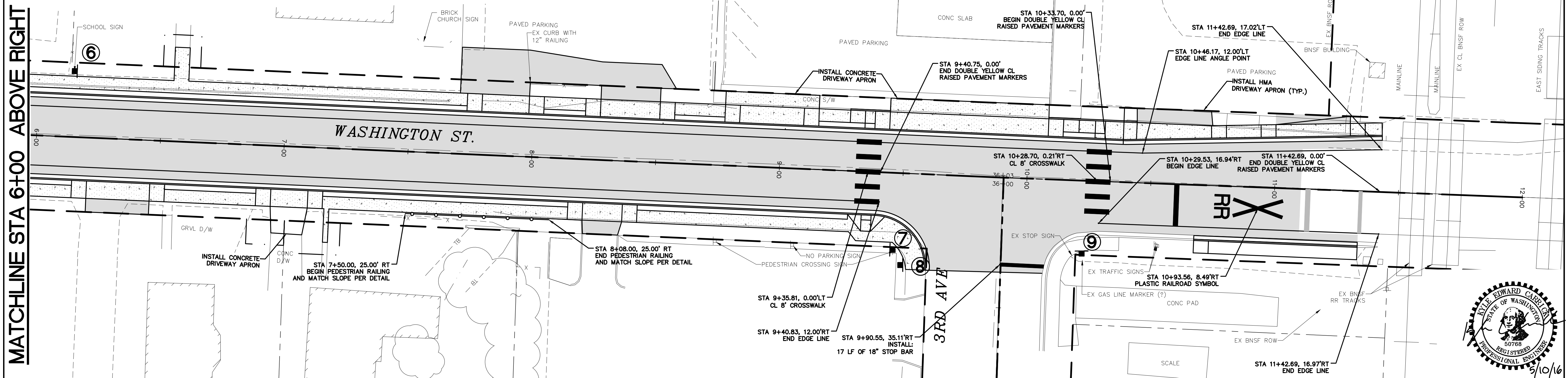


MATCHLINE STA 6+00 BELOW LEFT

SIGN SCHEDULE

NO.	STATION	OFFSET	MUTCD CODE	SIGN DESCRIPTION	NOTES
1	1+40	26' LT	R7-101	"NO PARKING ANYTIME"	REMOVE EX SIGN, INSTALL NEW SIGN
2	2+29	28' LT	R7-101	"NO PARKING ANYTIME"	REMOVE EX SIGN, INSTALL NEW SIGN
3	2+62	28' LT	R7-1, R7-201	"NO PARKING ANYTIME", "TOW AWAY ZONE"	REMOVE EX SIGN, INSTALL R7-1 ABOVE R7-201
4	4+63	27' RT	--	"SCHOOL CROSSING SYMBOL"	REMOVE PER SHEET TS1
5	4+72	25' LT	--	"SCHOOL CROSSING SYMBOL"	REMOVE PER SHEET TS1
6	6+14	26.5' LT	--	"SCHOOL CROSSING SYMBOL"	REMOVE PER SHEET TS1
7	9+47	31' RT	W11-2, W16-7PL	"(PEDESTRIAN CROSSING)", "(ARROW)"	REMOVE EX SIGN, INSTALL W11-2 ABOVE W16-7PL
8	9+50	37' RT	R9-3, R9-3bP	"(NO PED X-ING)", "USE CROSSWALK"	NEW, MOUNT R9-3bP AT 7' ABOVE GRADE, R9-3 ABOVE R9-3bP
9	10+23	29.5' RT	R9-3, R9-3bP	"(NO PED X-ING)", "USE CROSSWALK"	NEW, MOUNT R9-3bP AT 7' ABOVE GRADE, R9-3 ABOVE R9-3bP

CONTRACTOR SHALL PRESERVE ALL EXISTING SIGNS NOT REFERENCED IN THE SIGN SCHEDULE



MATCHLINE STA 6+00 ABOVE RIGHT



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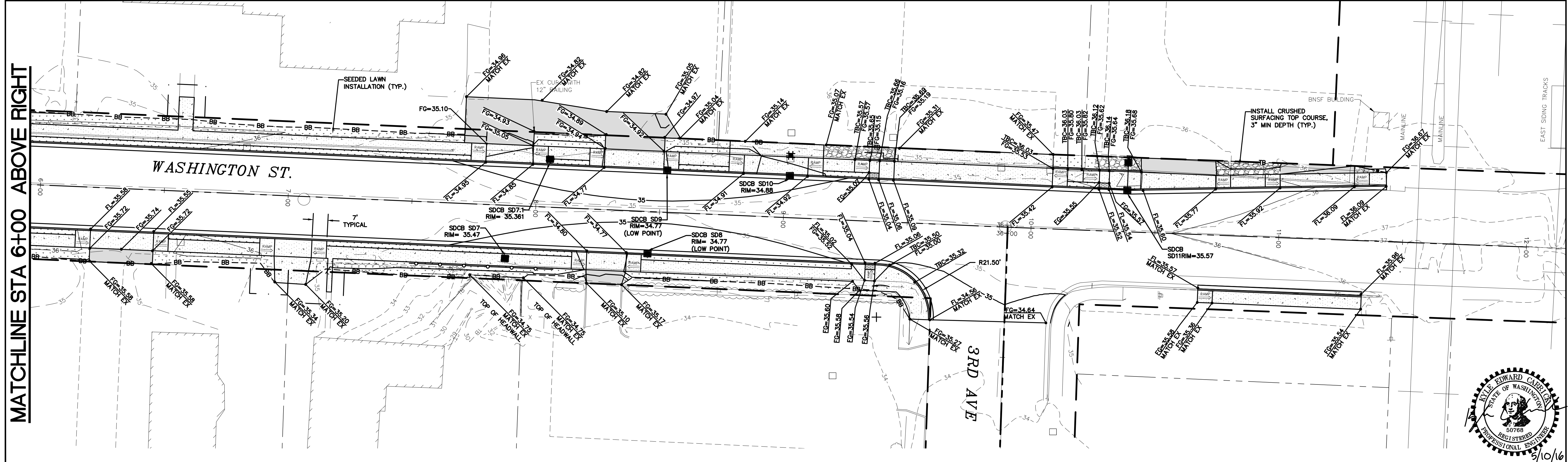
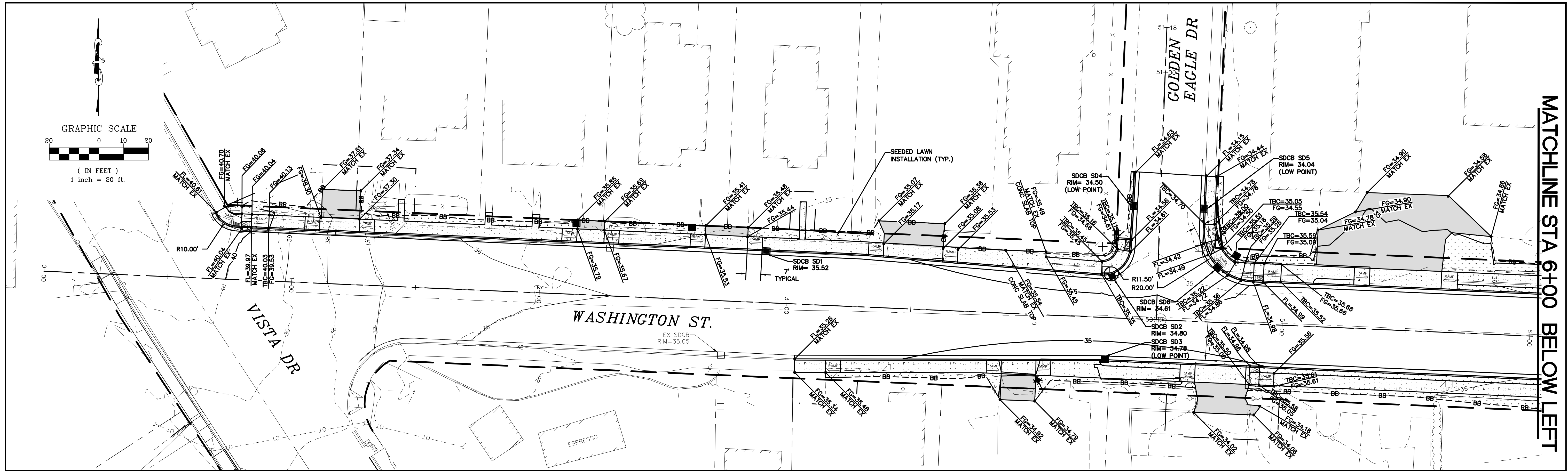
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN STREET
FERNDAL, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
CHANNELIZATION AND PAVING PLAN

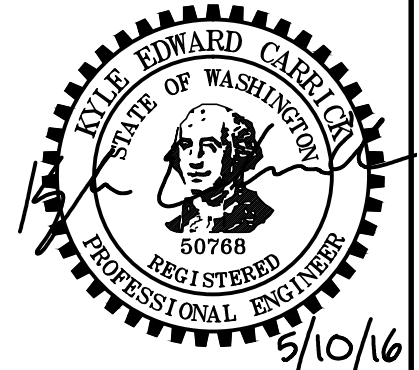
DWG 15036 PROBASE
JOB# 15036
SCALE H: 1"=20' V: NA

DATE 5/10/2016
SHEET 12 of 17



MATCHLINE STA 6+00 ABOVE RIGHT

MATCHLINE STA 6+00 BELOW LEFT



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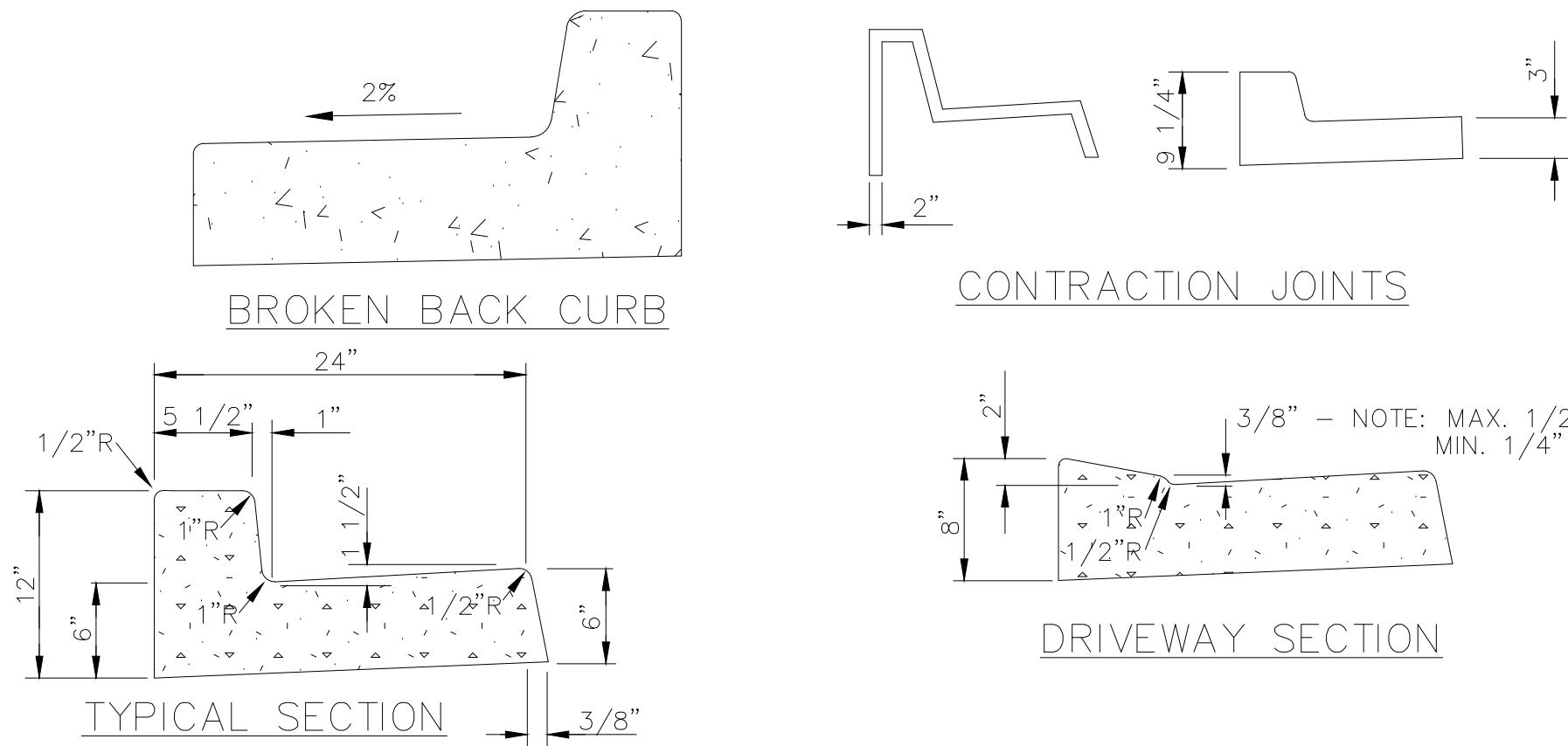
NO.	DATE	DESCRIPTION	BY

CITY OF FERDALE
2095 MAIN STREET
FERDALE, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
GRADING PLAN

DWG 15036 PROBASE
JOB# 15036
SCALE H: 1"=20' V: NA

DATE 5/10/2016
SHEET 13
of 17



NOTES:
CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10' C/C. JOINTS COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MIN. 3/16" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.

3/4" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS AND COLD JOINTS OR A MAX. OF 80' C/C. EXPANSION JOINTS SHALL PROTRUDE 1" BELOW THE BOTTOM OF THE GUTTER.

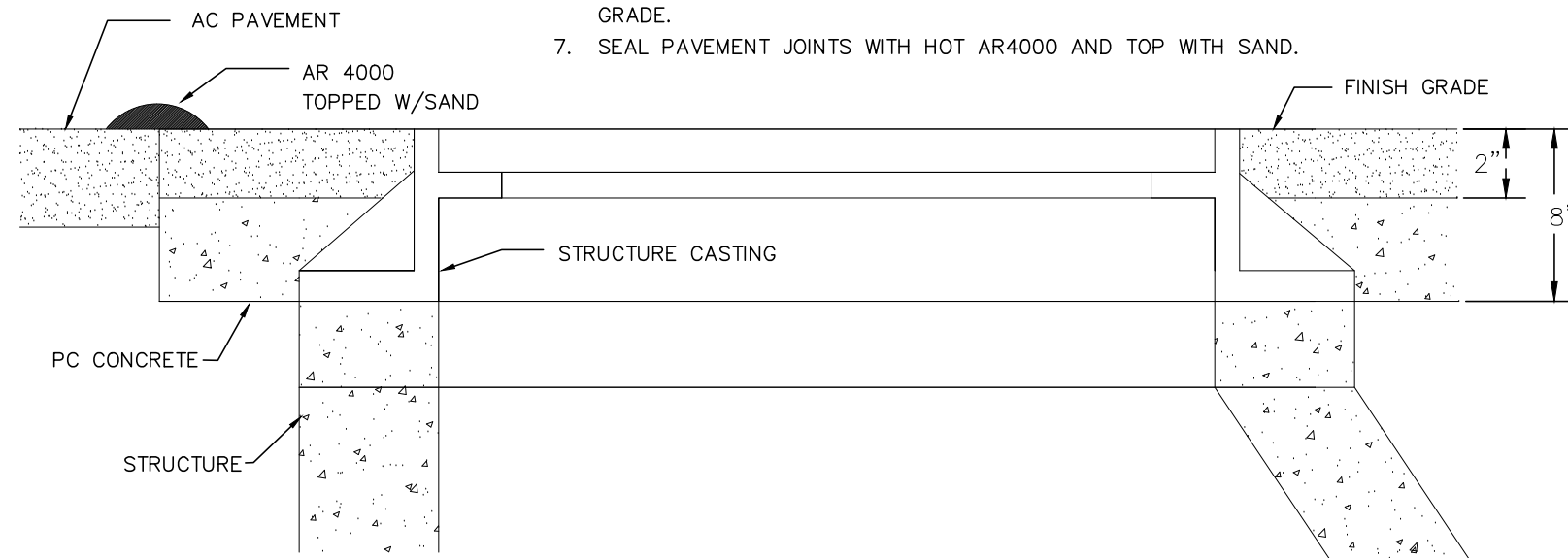
CURB DRAINS SHALL BE CONSTRUCTED OF 2" PVC PIPE OR OTHER MATERIAL SUBJECT TO APPROVAL OF THE ENGINEER, CUT TO LENGTH TO PASS FROM THE BACK OF CURB THROUGH THE CURB TO THE FACE OF THE CURB AT THE GUTTER LINE. SPACING WILL BE MAXIMUM OF 50 FEET, CENTER TO CENTER, AND/OR EACH SIDE OF THE DRIVEWAYS AND AT SUCH LOCATIONS AS DESIGNATED BY THE ENGINEER.

CURB AND GUTTER DETAILS

NTS

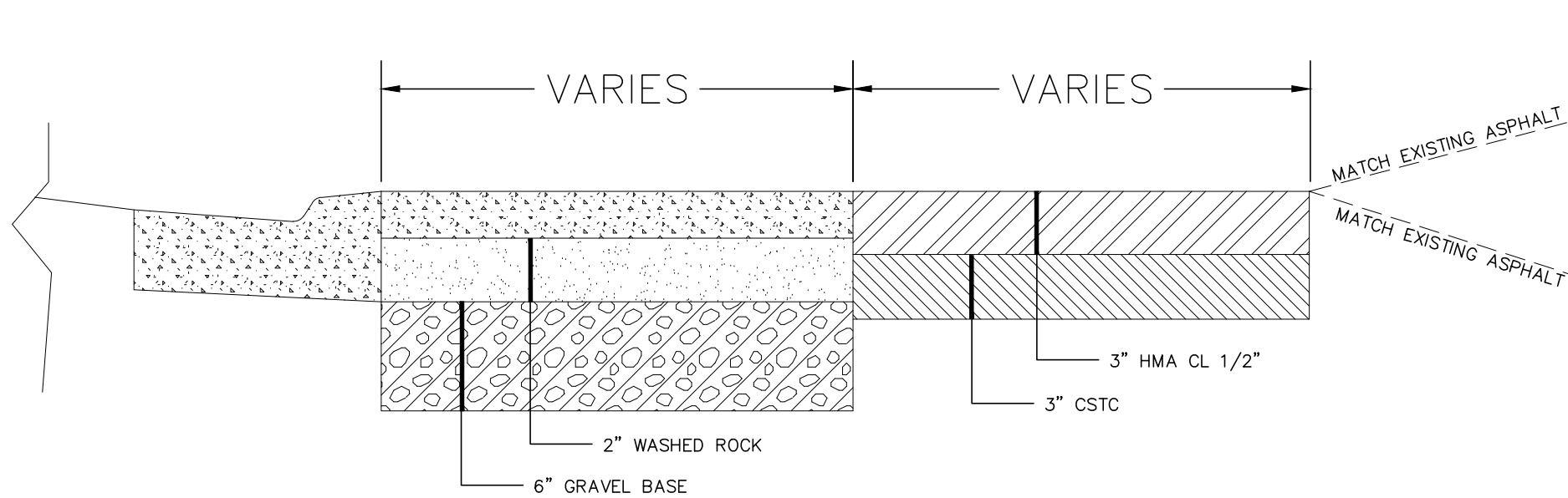
NOTES:

- ALL FRAMES, COVERS AND VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER THE FINAL LIFT OF PAVING HAS BEEN COMPLETED. THE FOLLOWING PROCEDURE SHALL BE USED:
- CUT THE ASPHALT IN AN EVEN CIRCLE AROUND THE STRUCTURE CASTING TO BE ADJUSTED.
 - REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
 - PLACE THE CASTING AT FINISH GRADE.
 - PLACE PORTLAND CEMENT CONCRETE TO WITHIN THE TOP 2 INCHES OF FINISH GRADE.
 - APPLY TACK TO THE STRUCTURE CASTING, CUT PAVEMENT, AND PC CONCRETE.
 - PLACE AND COMPACT 2 INCHES OF HMA TO FINISH GRADE.
 - SEAL PAVEMENT JOINTS WITH HOT AR4000 AND TOP WITH SAND.



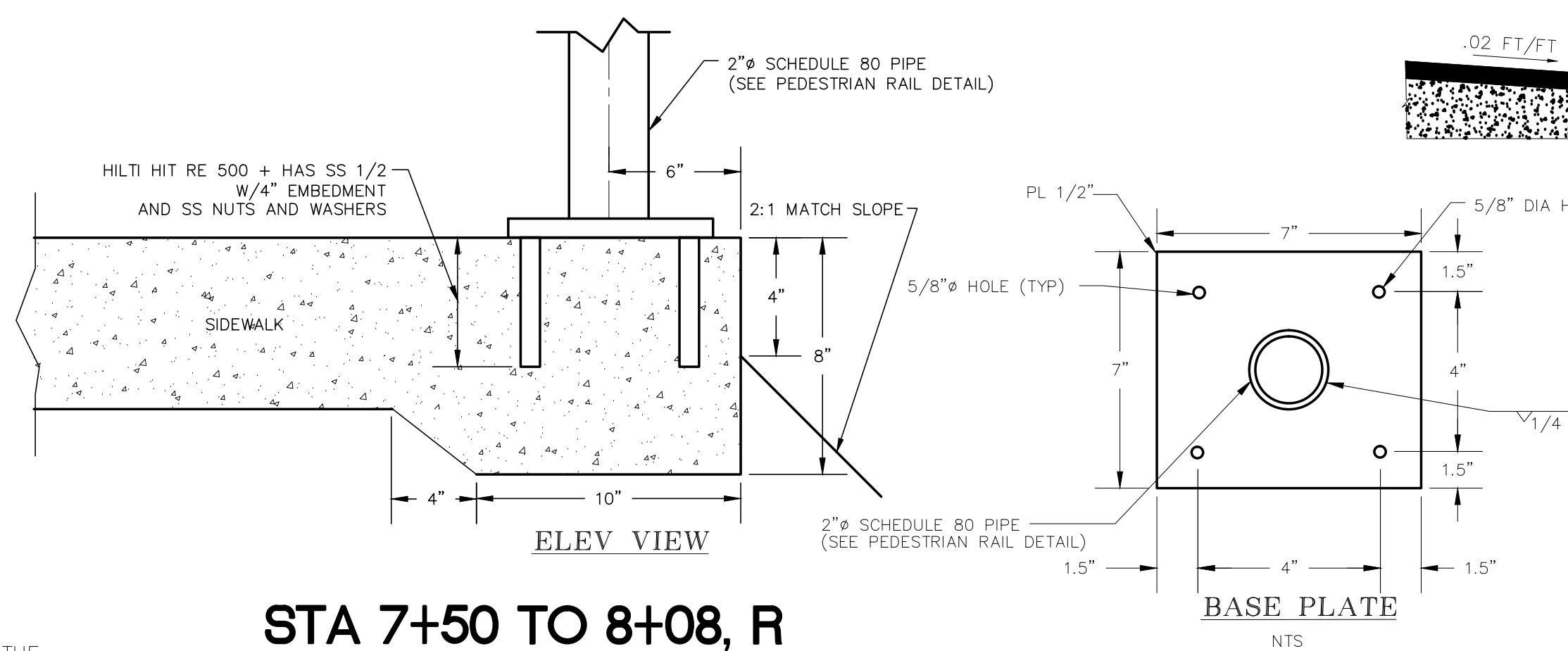
ADJUSTING CASTINGS TO FINISHED GRADE

NTS



PROPOSED ASPHALT APRON AND ASPHALT SECTION

NTS

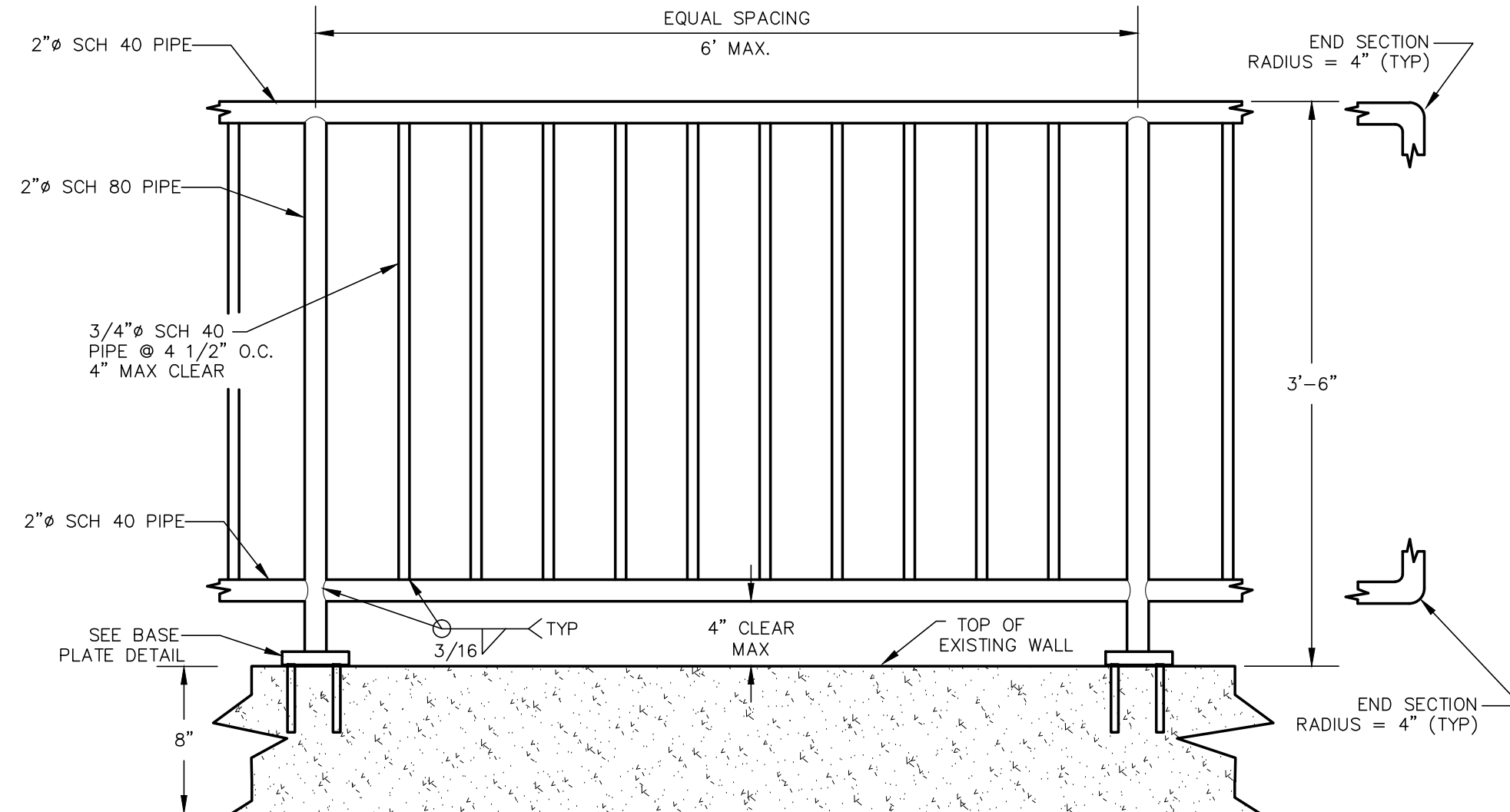


STA 7+50 TO 8+08, R CEMENT CONCRETE SIDEWALK THICKENED EDGE

NTS

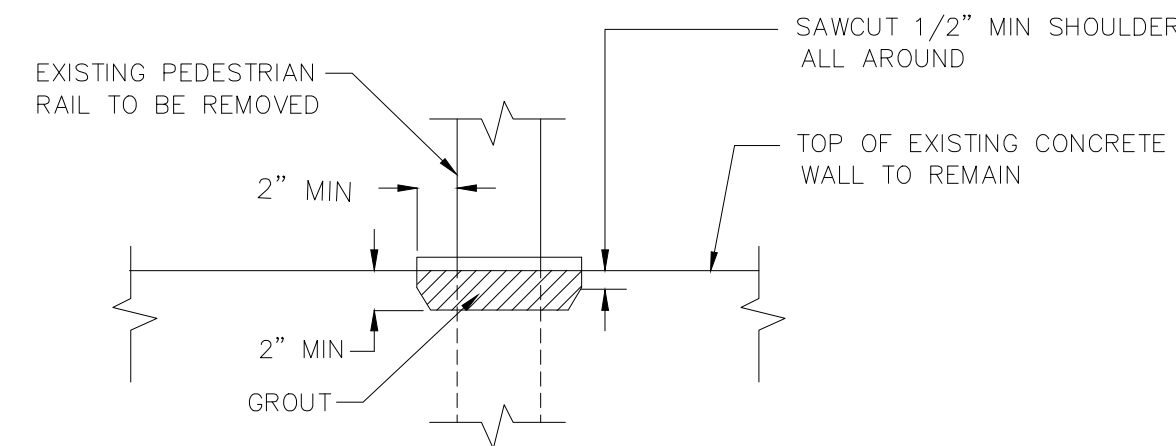
NOTES:

- HANDRAIL SHALL BE HOT DIPPED GALVANIZED.
- COLD GALVANIZED COMPOUND SHALL BE APPLIED TO ALL FIELD WELDS AND BLEMISHES.
- PIPES SHALL BE ASTM A53 GRADE B.



PEDESTRIAN RAIL DETAIL

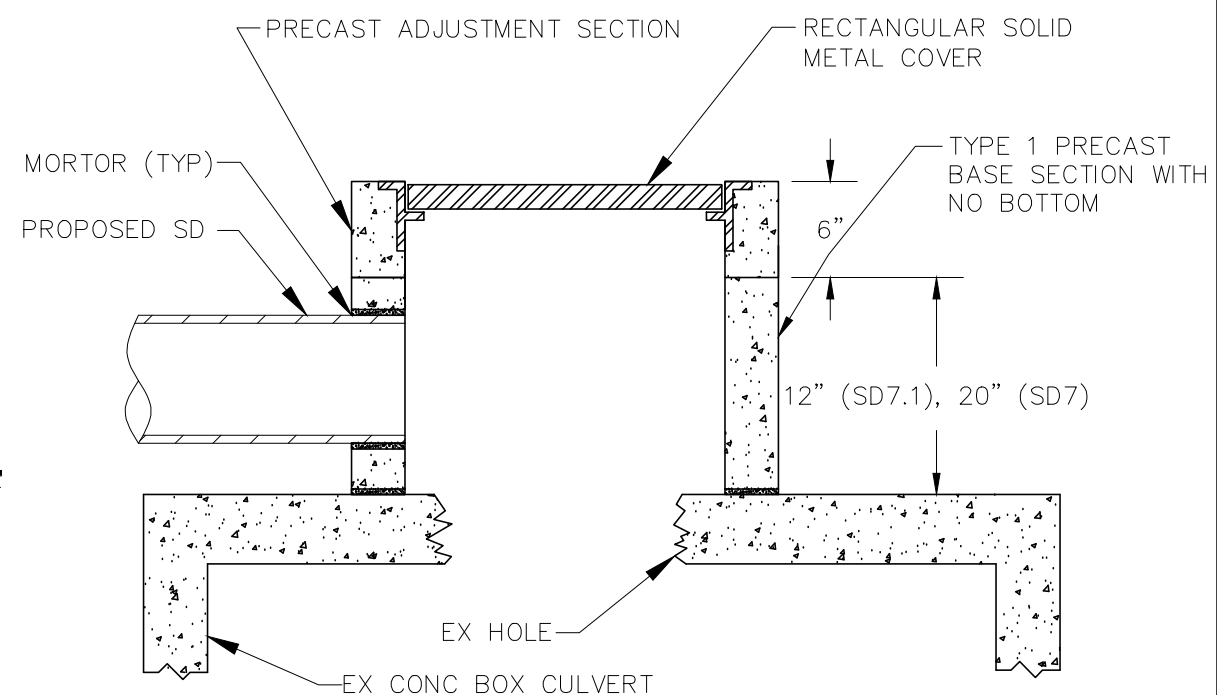
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REMOVAL OF EXISTING PEDESTRIAN RAIL DETAIL

NTS

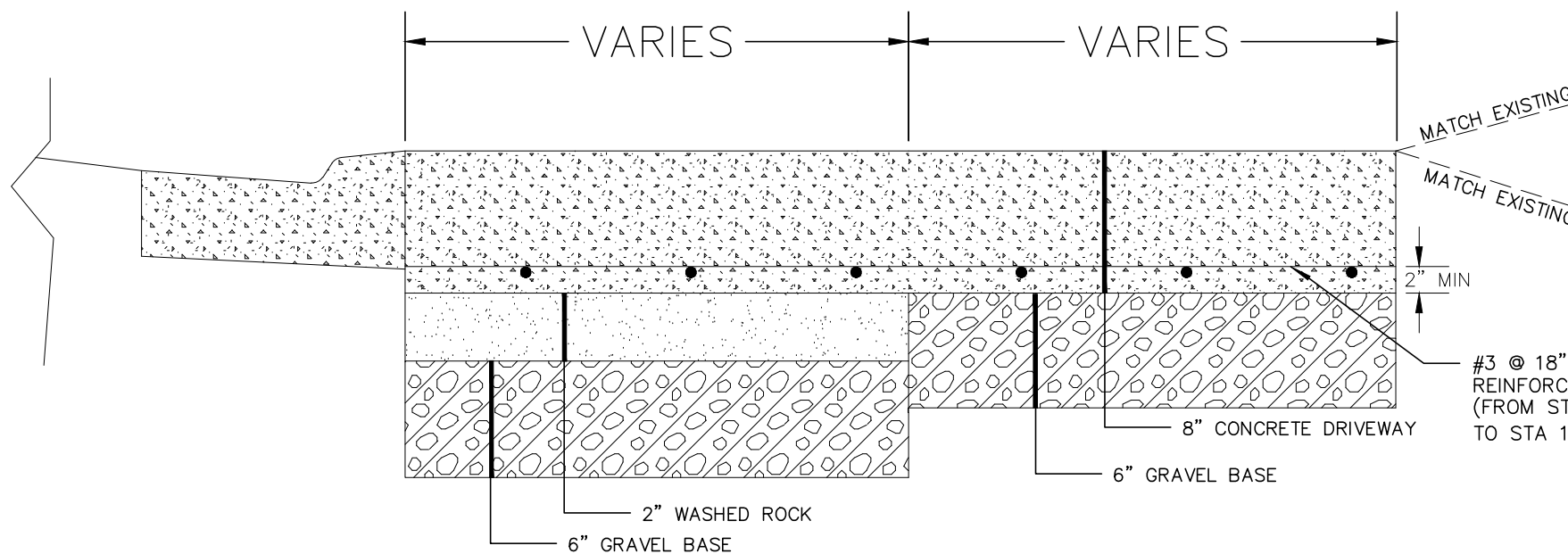
- NOTES:
- CHIP AND REMOVE CONCRETE AND PEDESTRIAN RAIL AS SHOWN.
 - ROUGHEN EXPOSED CONCRETE.



CUSTOM TYPE 1 CATCH BASIN DETAIL

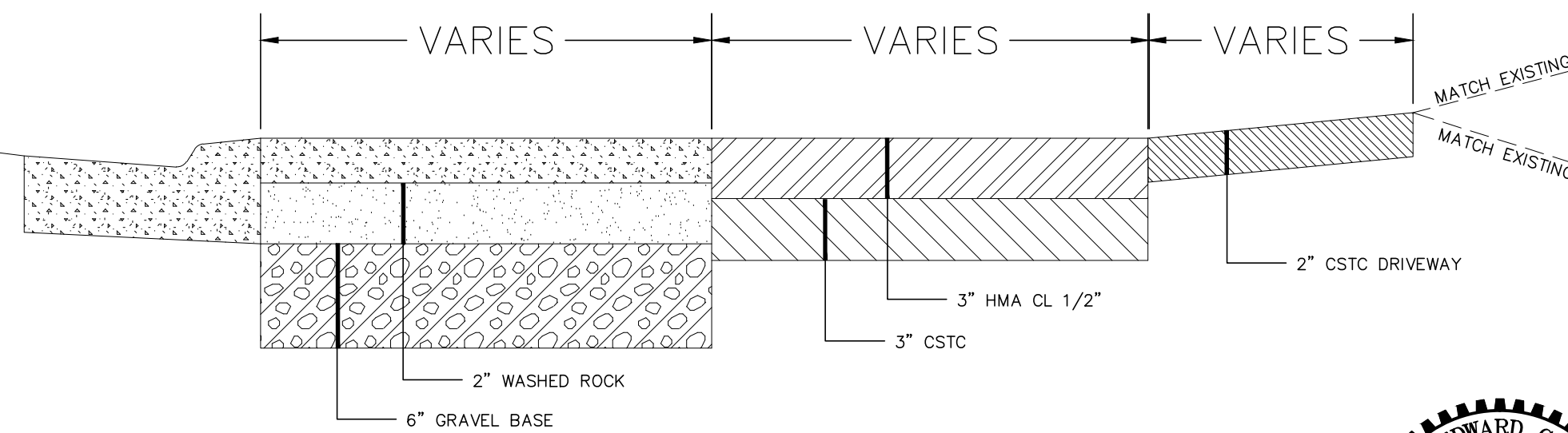
NTS

(STA 7+88, R & 8+05, L)



PROPOSED CONCRETE DRIVEWAY SECTION

NTS



PROPOSED ASPHALT APRON AND GRAVEL SECTION

NTS



5/10/16

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NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN STREET
FERNDAL, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
DETAILS

DWG: 15036 PROBASE

JOB#

15036

SCALE

H: NA

V: NA

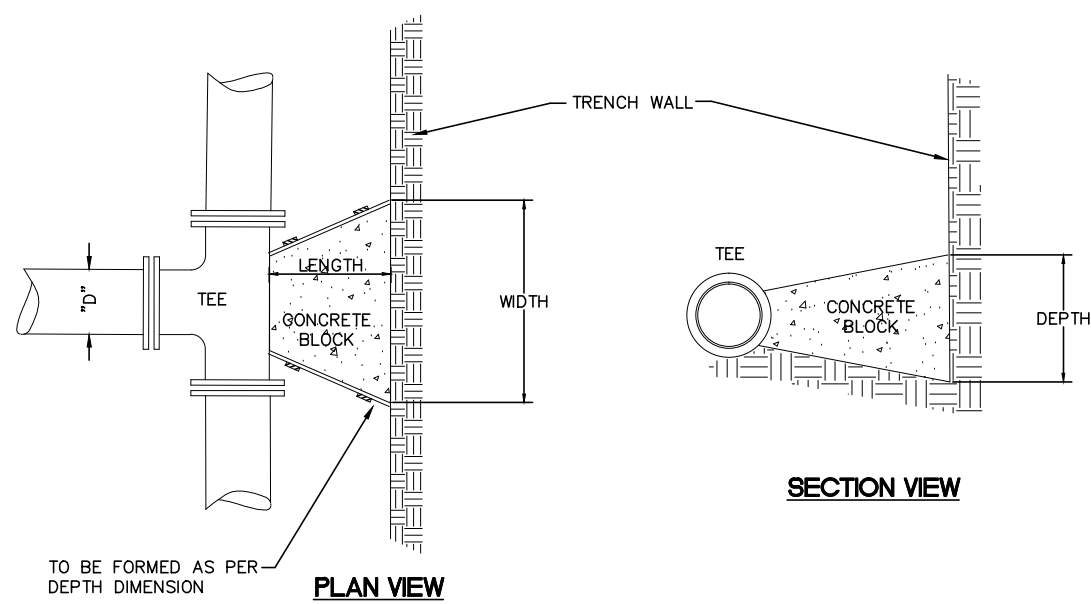
DATE

5/10/2016

SHEET

14

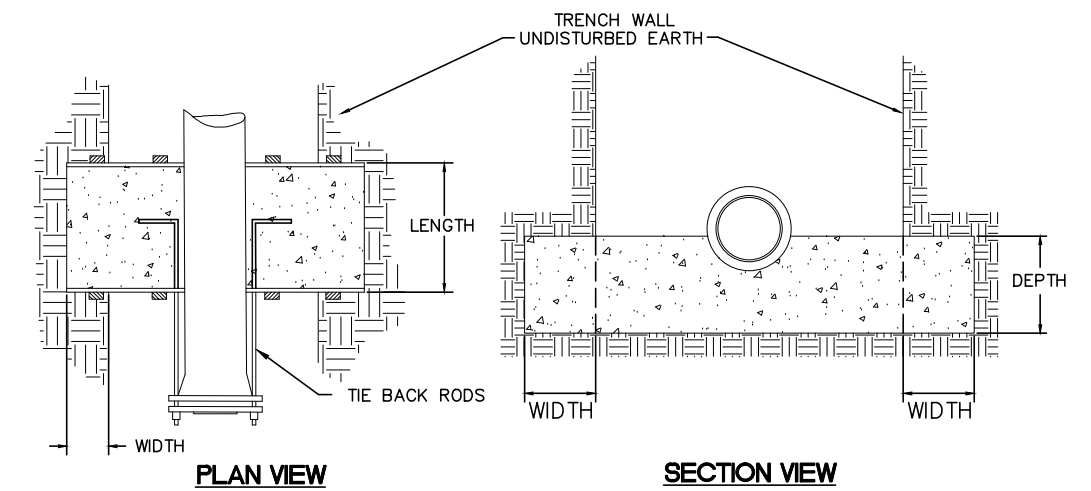
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"D"	WIDTH	DEPTH	LENGTH	VOL.
6"	1'-6"	1'-6"	12"	3.0
8"	2'-0"	2'-0"	12"	4.5
10"	2'-6"	2'-6"	12"	7.0
12"	3'-0"	3'-0"	18"	14.0

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

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

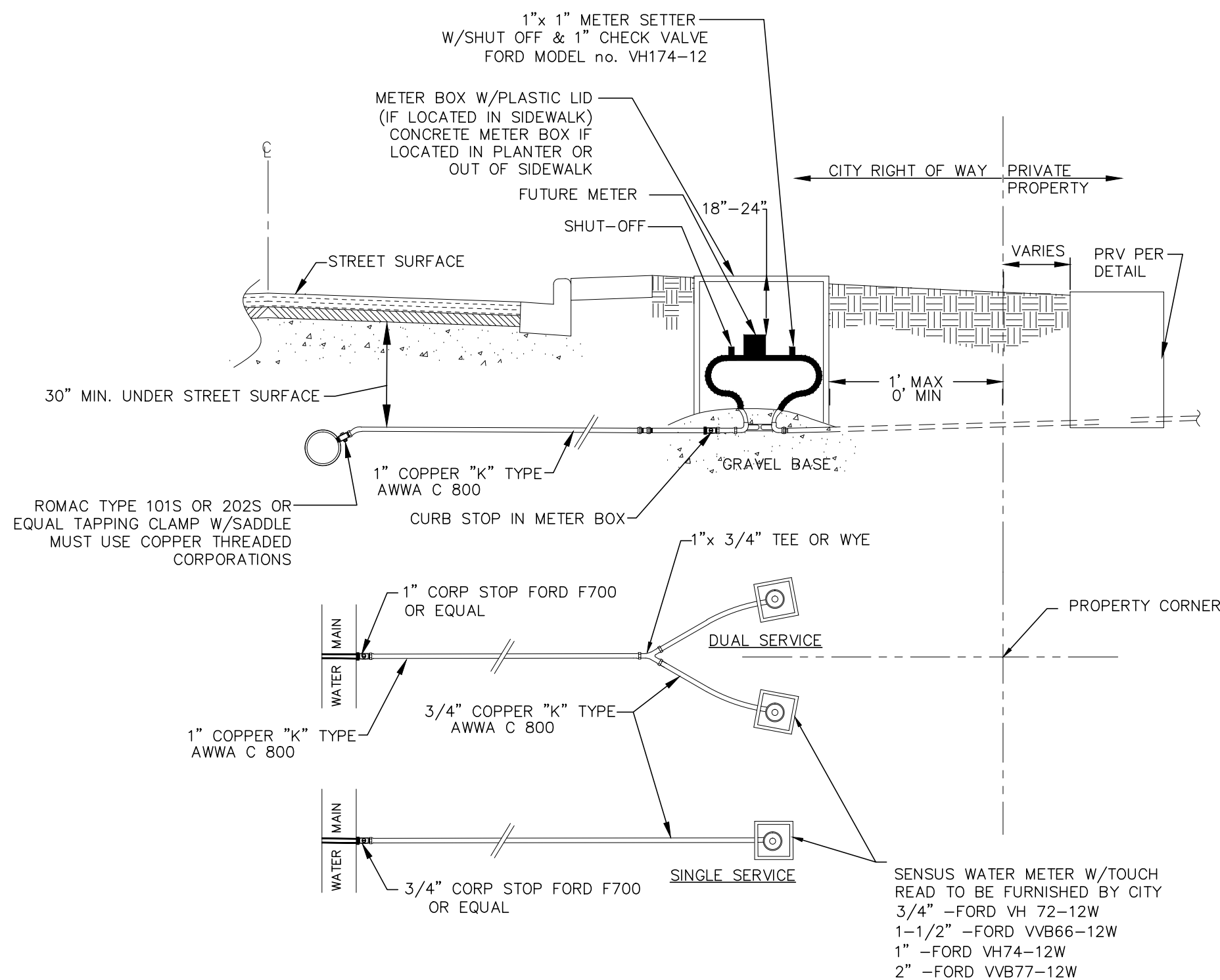


"D"	WIDTH	DEPTH	LENGTH	*VOL.	# OF RODS	ROD DIA.
6"	1'-6"	1'-6"	12"	7.5	2	1/2"
8"	2'-0"	2'-0"	18"	20.0	2	5/8"
10"	2'-6"	2'-6"	24"	37.5	2	3/4"
12"	2'-9"	2'-9"	24"	44.0	4	3/4"

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

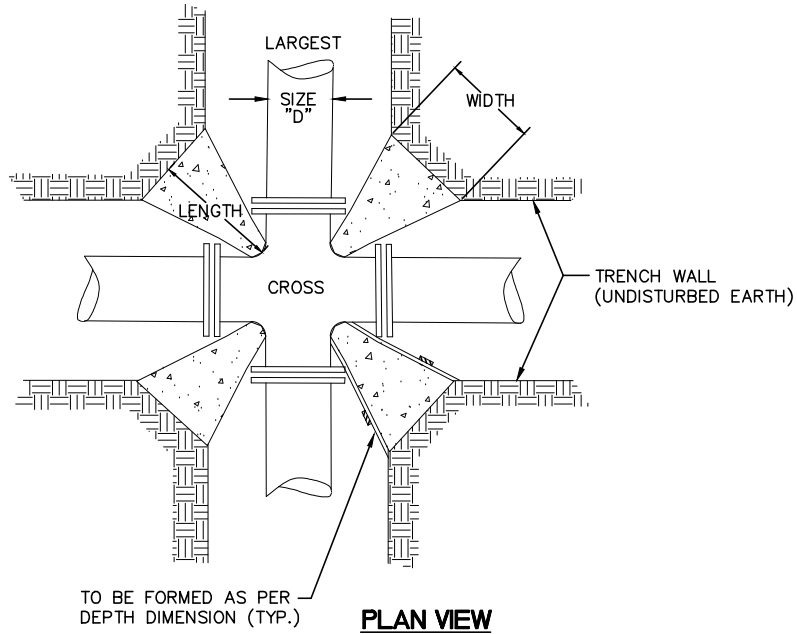
THRUST BLOCKING

NTS



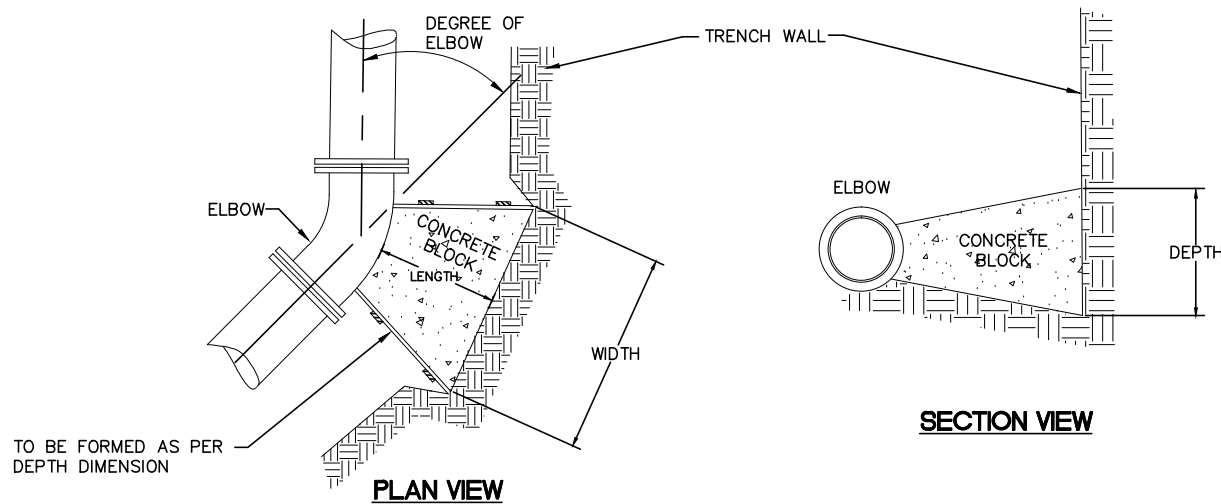
WATER SERVICE CONNECTION DETAIL

NTS



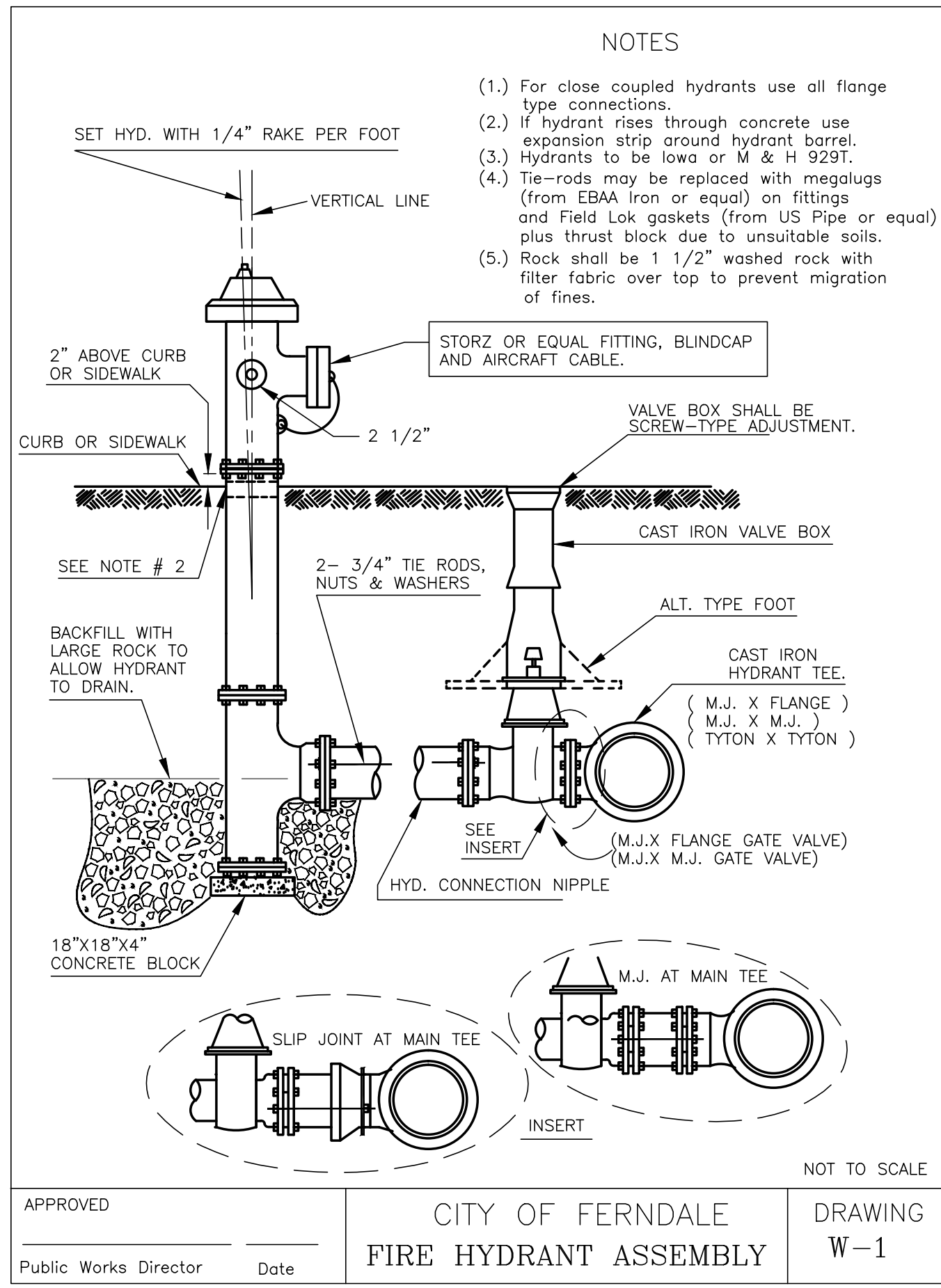
"D"	WIDTH	DEPTH	LENGTH	VOL.	X4 blocks/joint
6"	1'-0"	1'-0"	12"	0.63	2.50 cu ft.
8"	1'-3"	1'-3"	12"	1.00	4.01 cu ft.
10"	1'-6"	1'-6"	12"	1.63	6.50 cu ft.
12"	1'-9"	1'-9"	18"	3.05	12.19 cu ft.

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



SIZE	LENGTH	11 1/4"	22 1/2"	45"	90"
6"	12"	1'-0"	1'-0"	1'-0"	1'-0"
8"	12"	1'-3"	1'-3"	1'-3"	1'-3"
10"	12"	1'-6"	1'-6"	1'-6"	1'-6"
12"	18"	2'-0"	2'-0"	2'-0"	2'-0"

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



APPROVED

Public Works Director

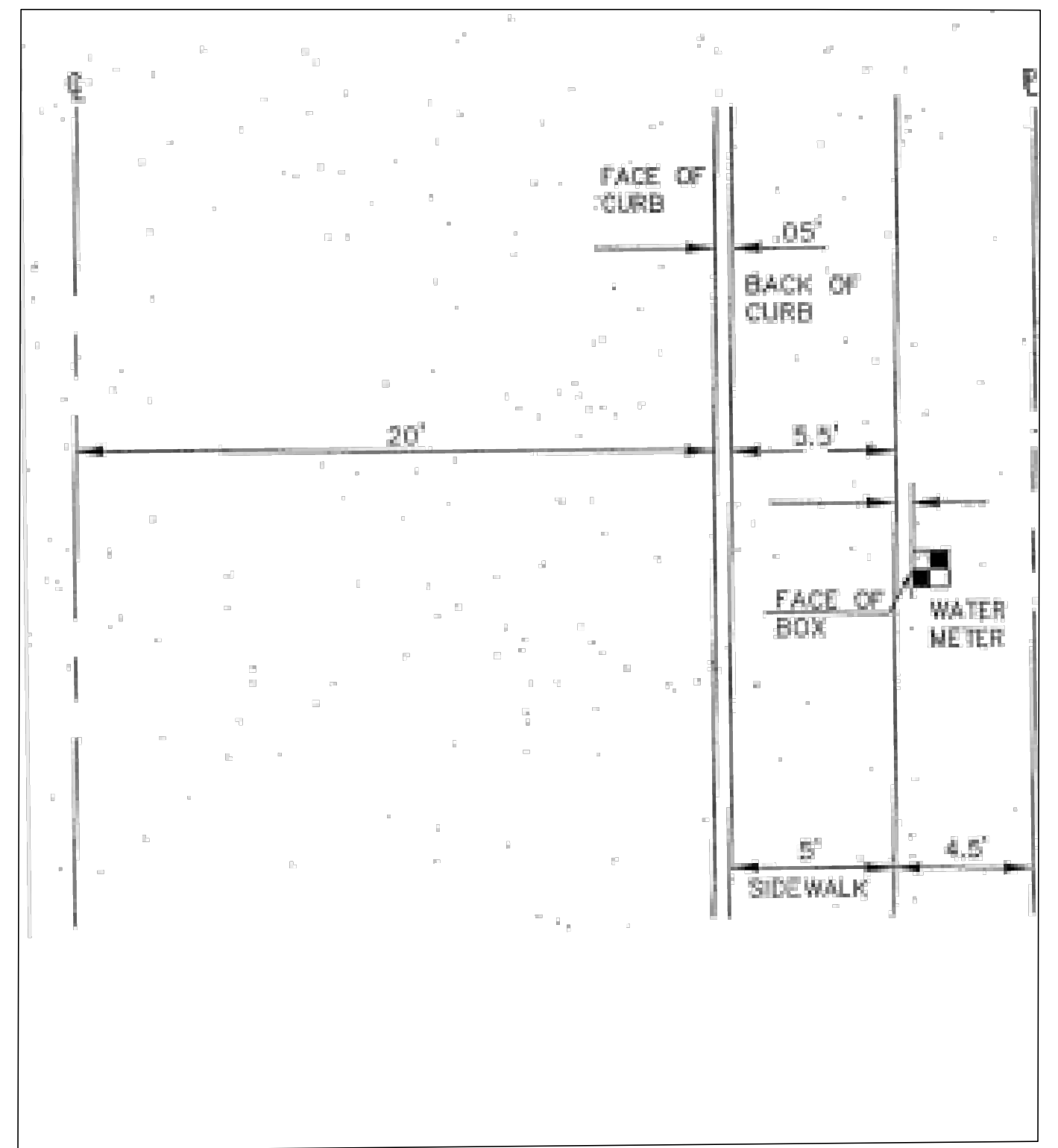
JULY 2001

CITY OF FERNDALE
FIRE HYDRANT ASSEMBLY

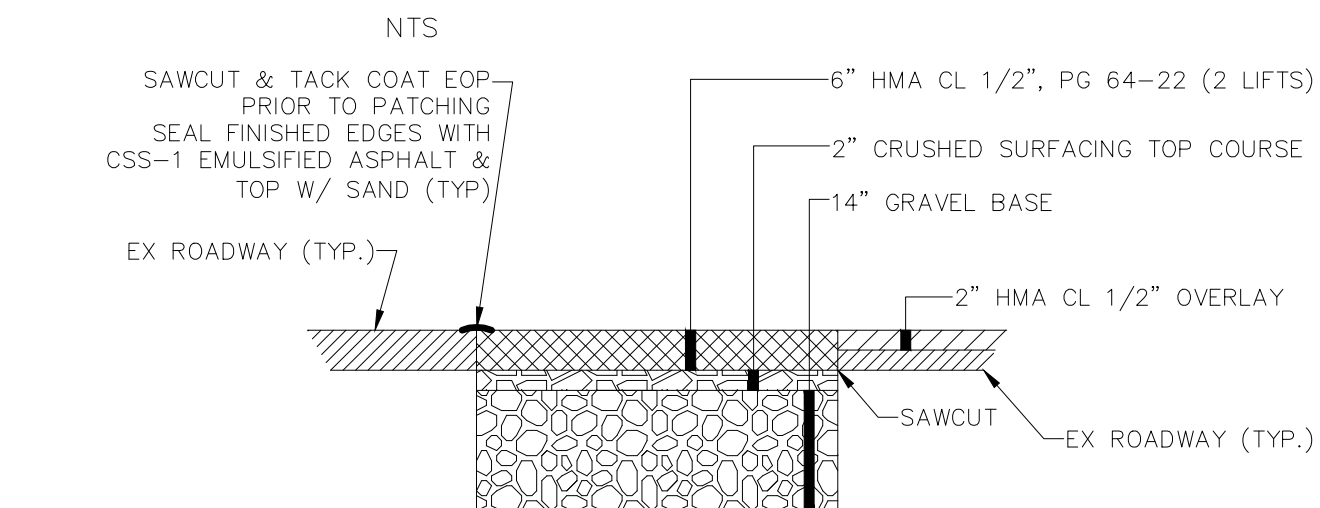
NOT TO SCALE

DRAWING

W-1

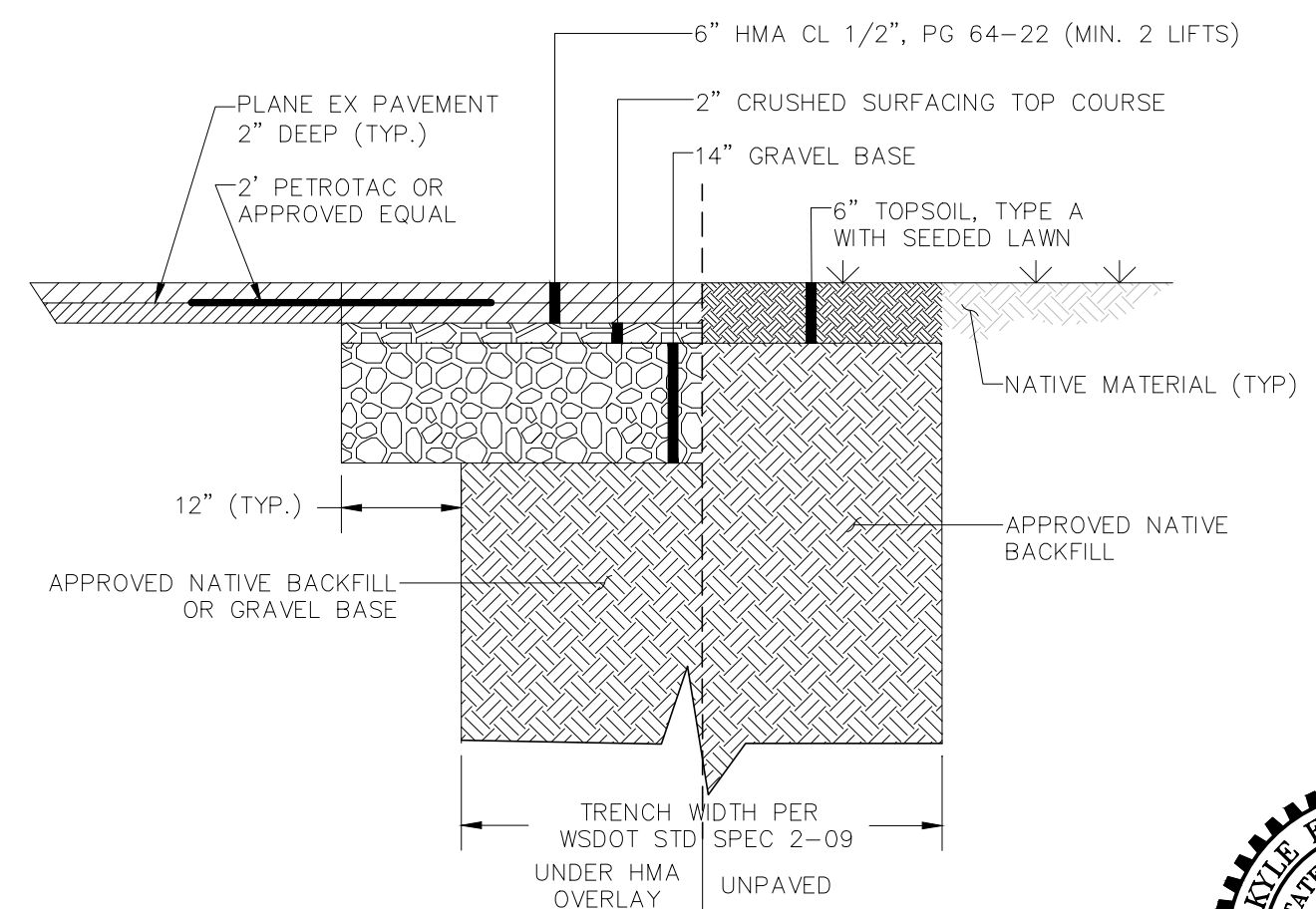


WATERMETER LOCATION DETAIL



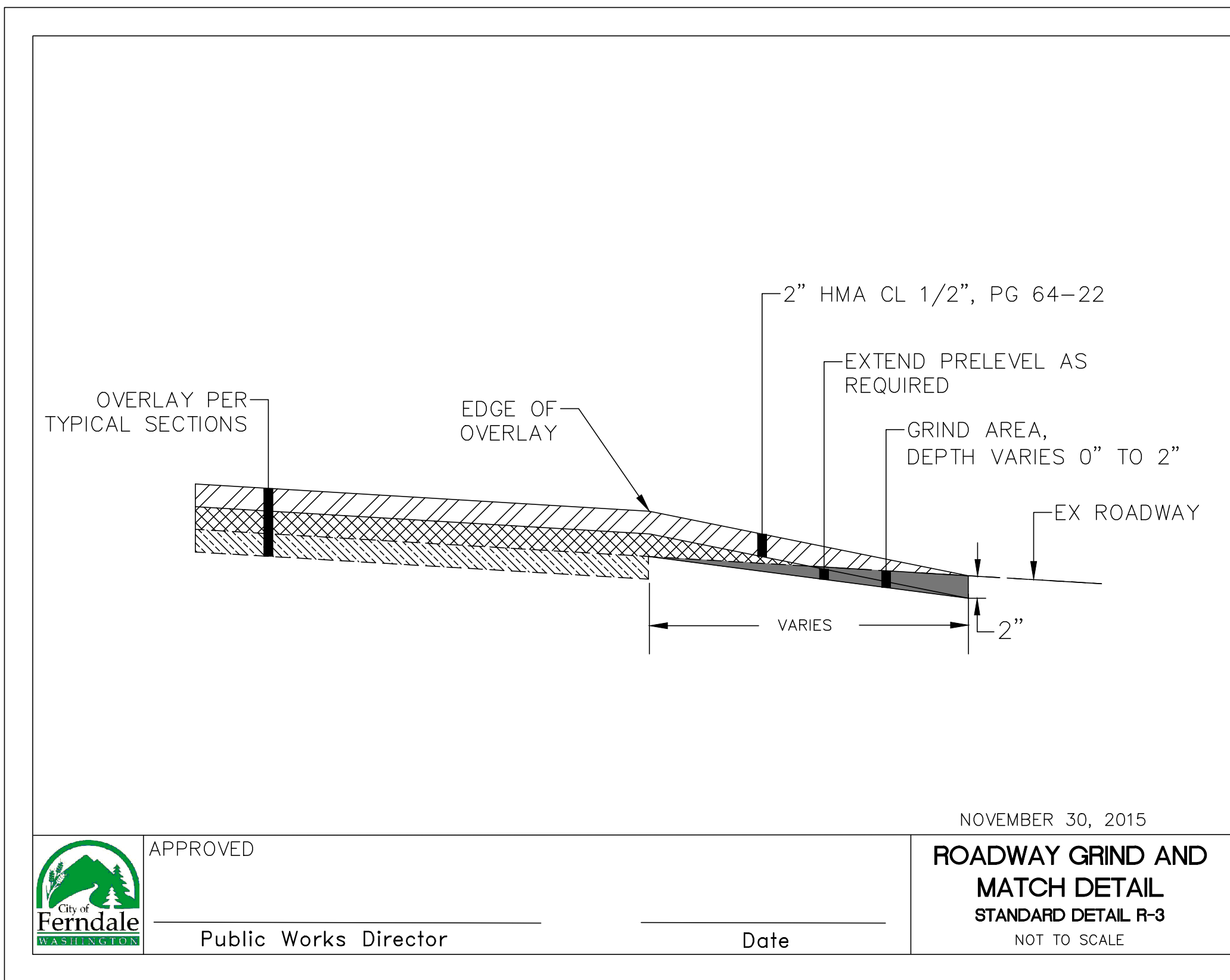
PAVEMENT REMOVAL AND RECONSTRUCTION SECTION

NTS



UTILITY TRENCH DETAIL

NTS



APPROVED

Public Works Director

Date

NOVEMBER 30, 2015

ROADWAY GRIND AND MATCH DETAIL
STANDARD DETAIL R-3
NOT TO SCALE

BID SET

DESIGNED BY
KEC
DRAWN BY
PJC
CHECKED 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) 855-1713

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
DETAILS

DWG 15036 PROBASE

JOB#

15036

SCALE

H: NA

V: NA

DATE

5/10/2016

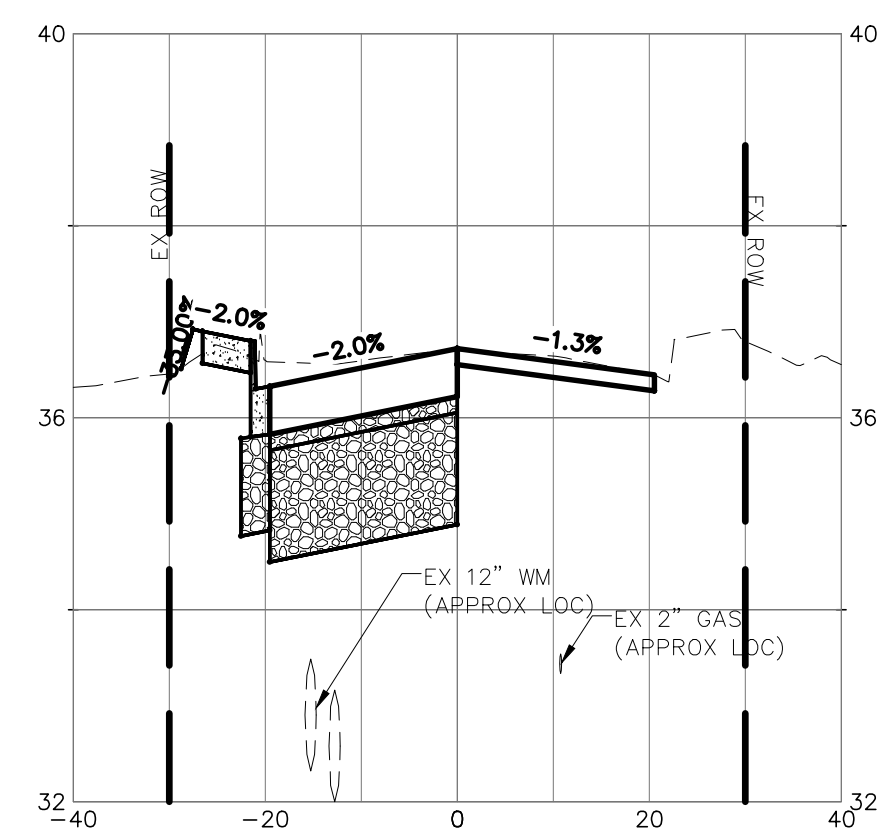
SHEET

15

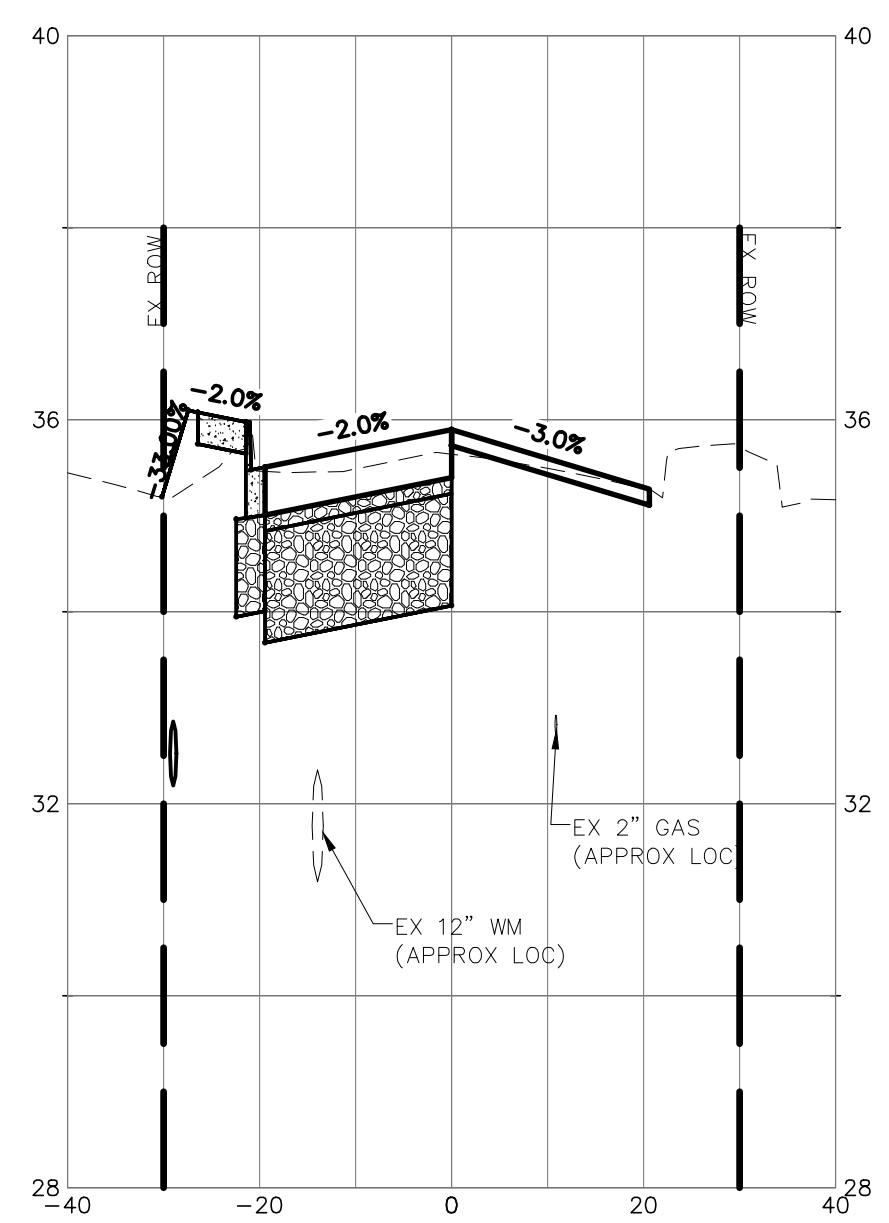
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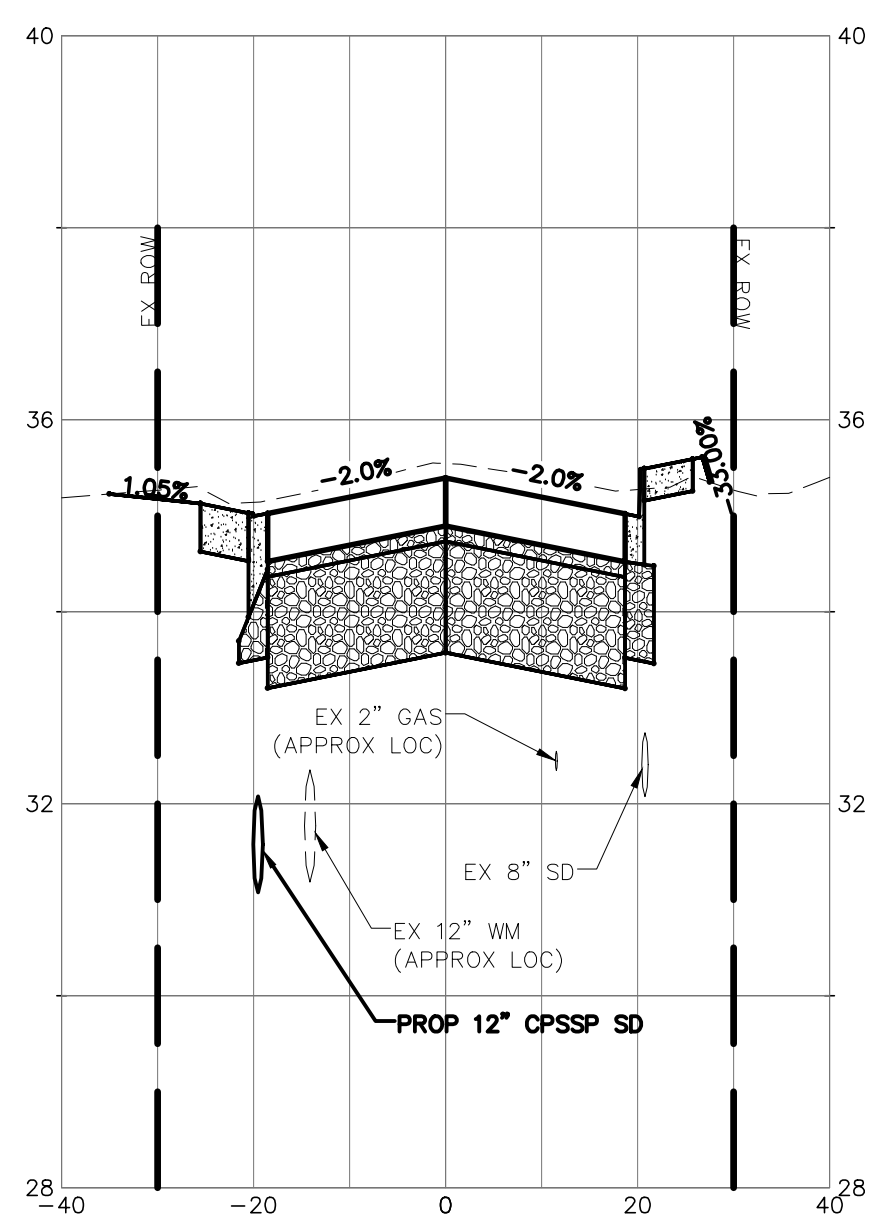
WASHINGTON STREET CL
STA 1+50



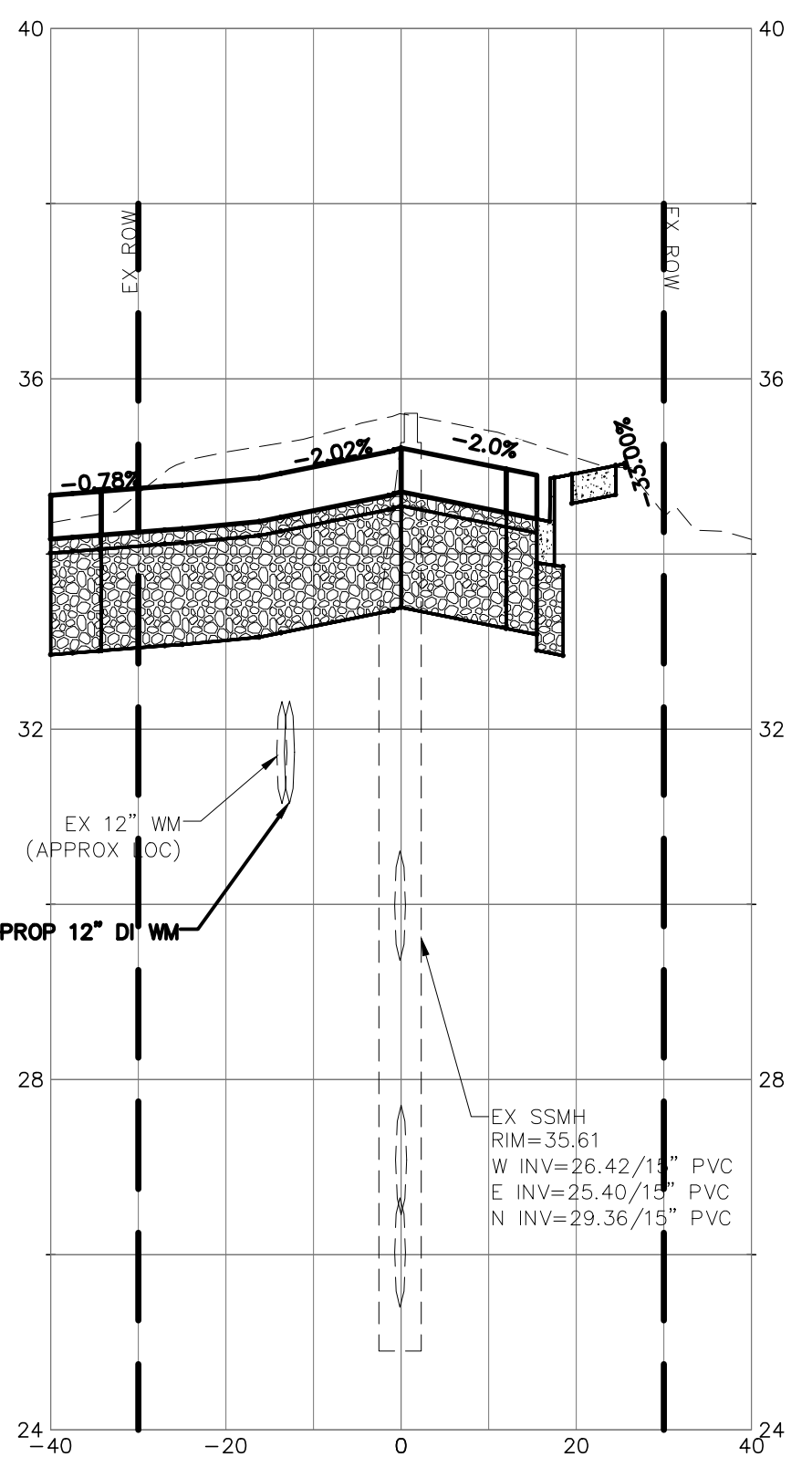
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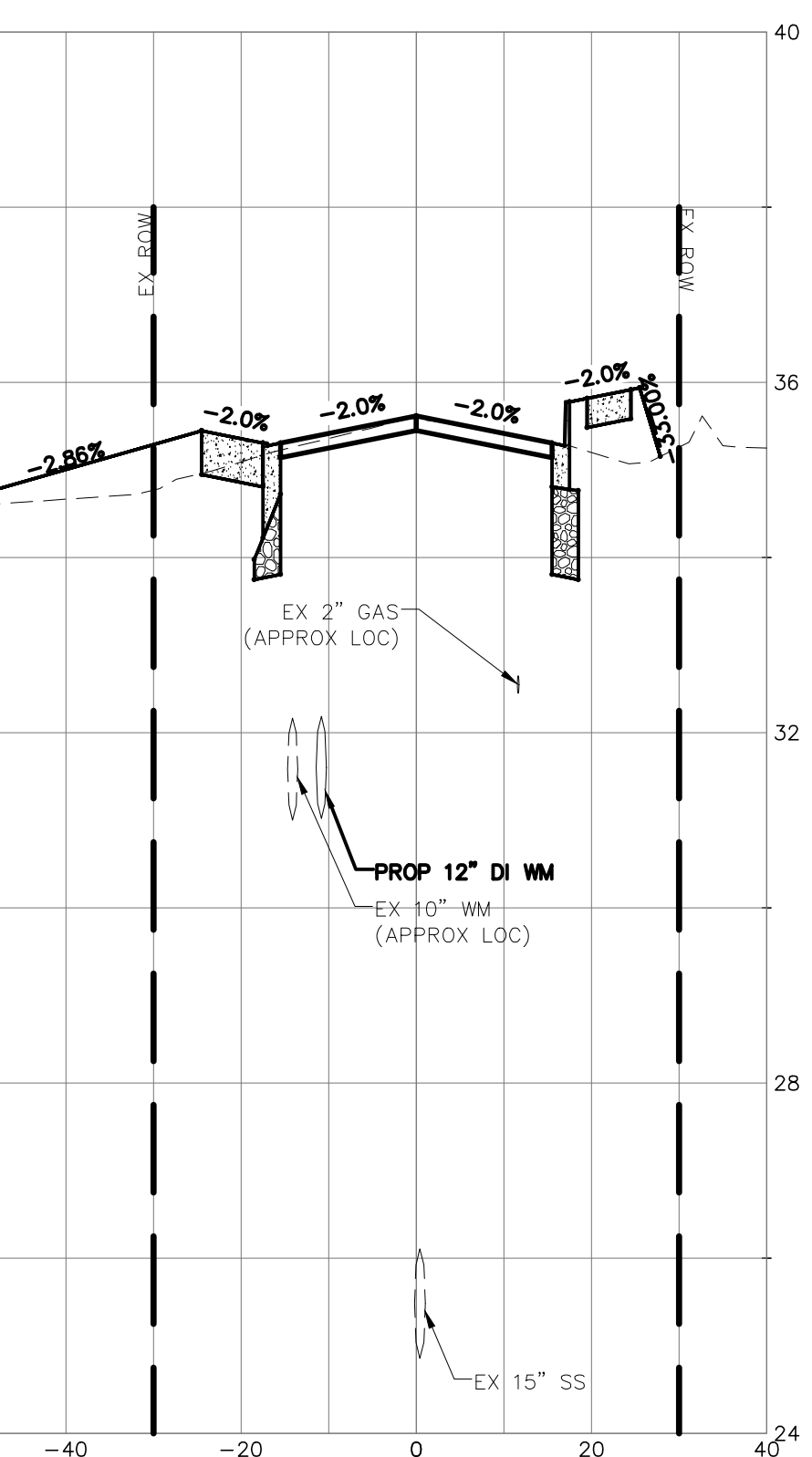
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STA 3+50



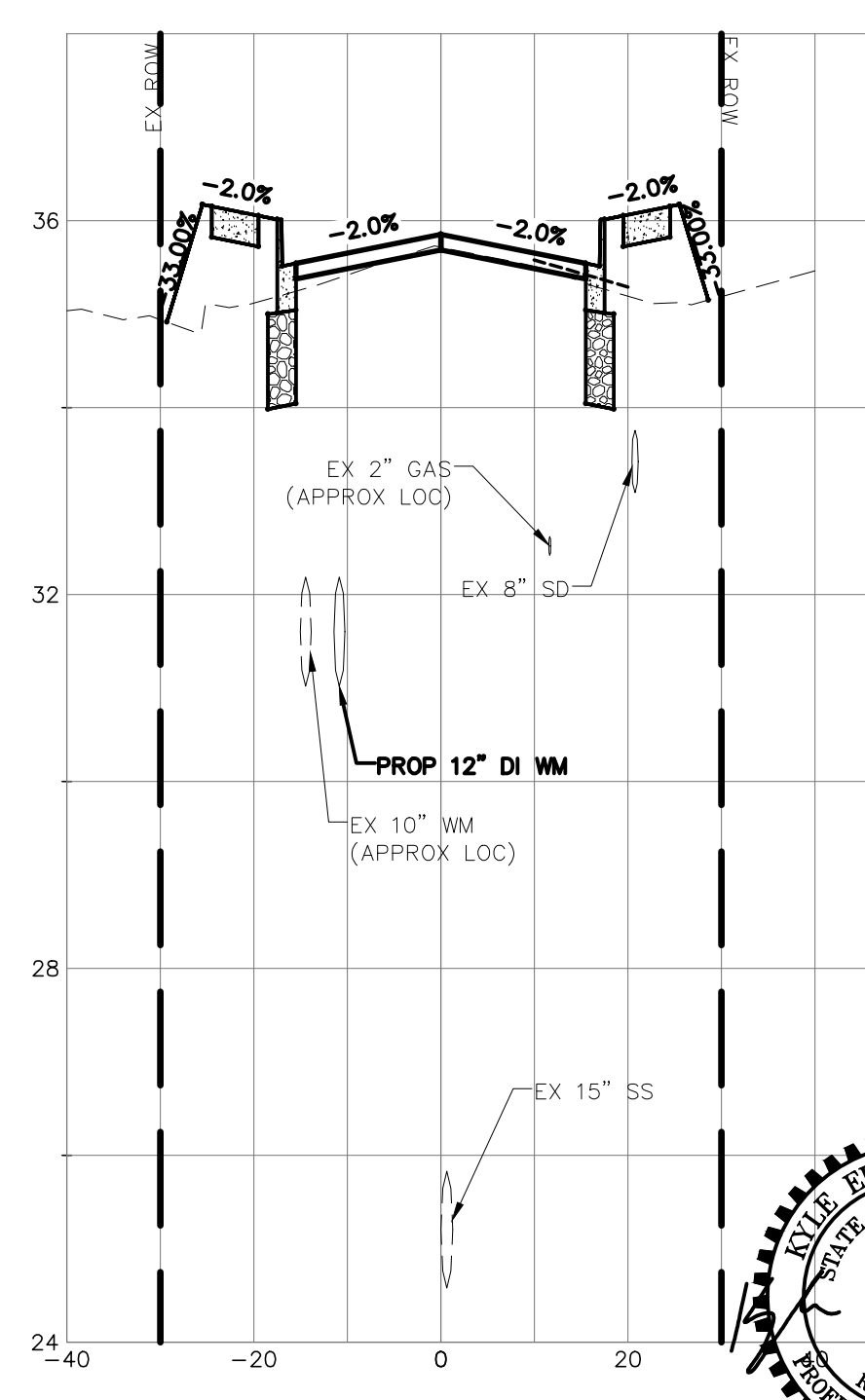
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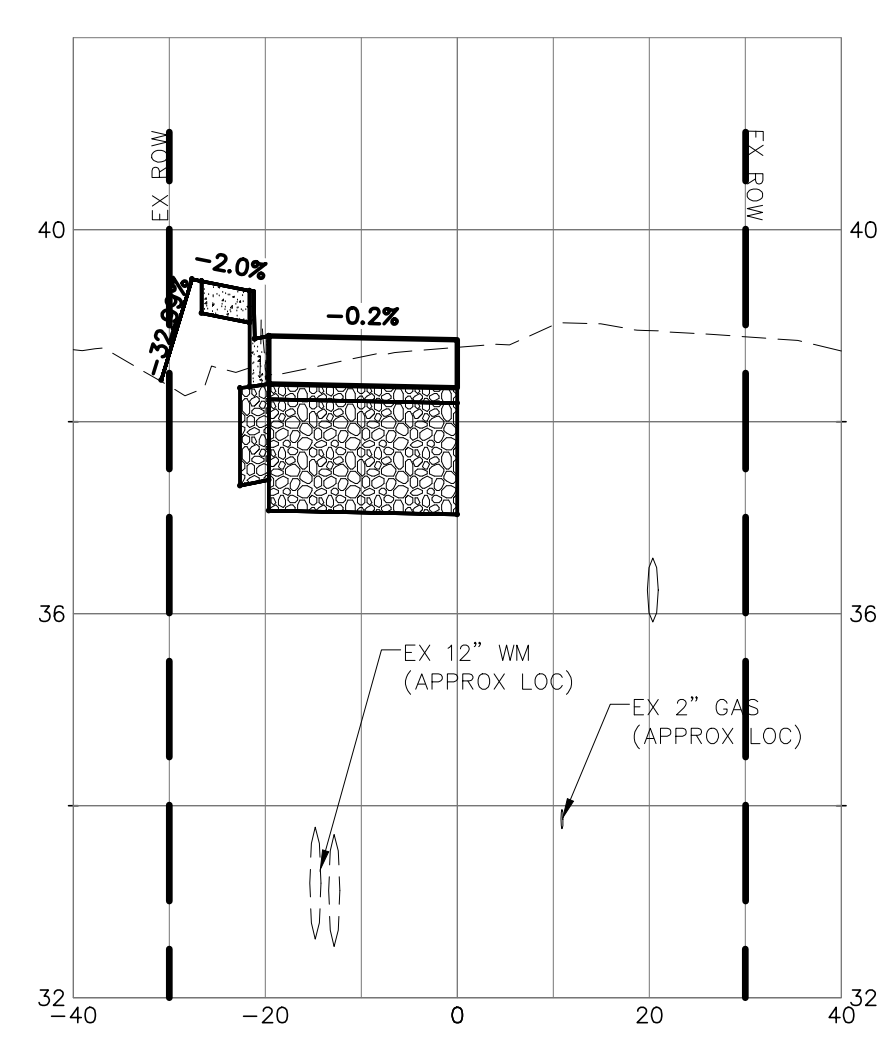
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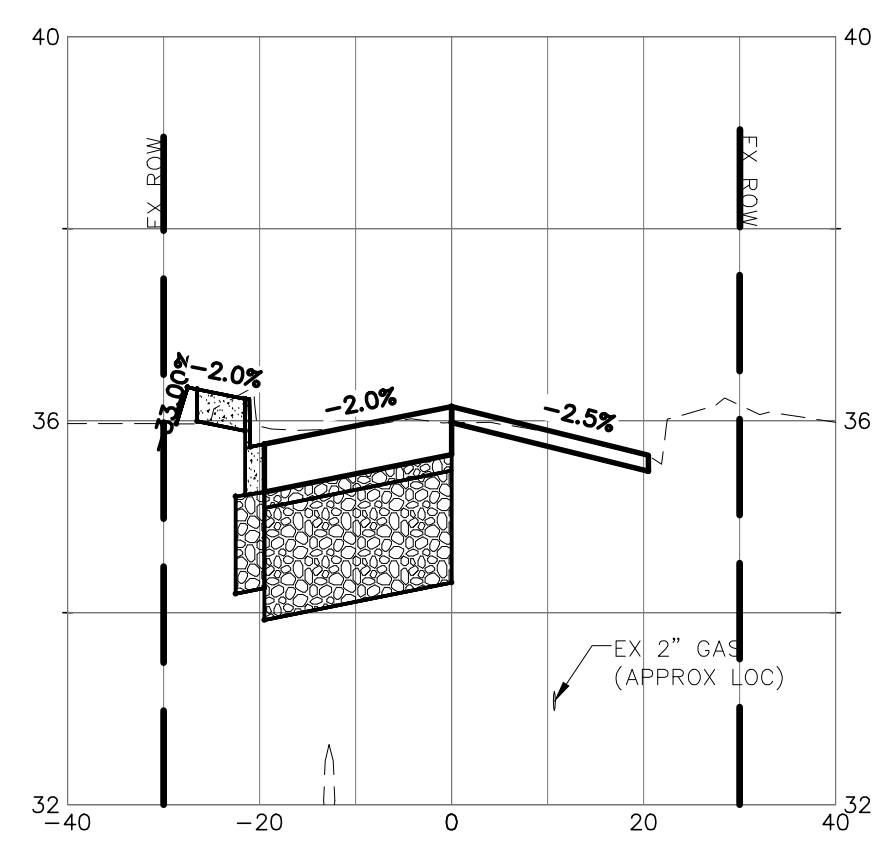
WASHINGTON STREET CL
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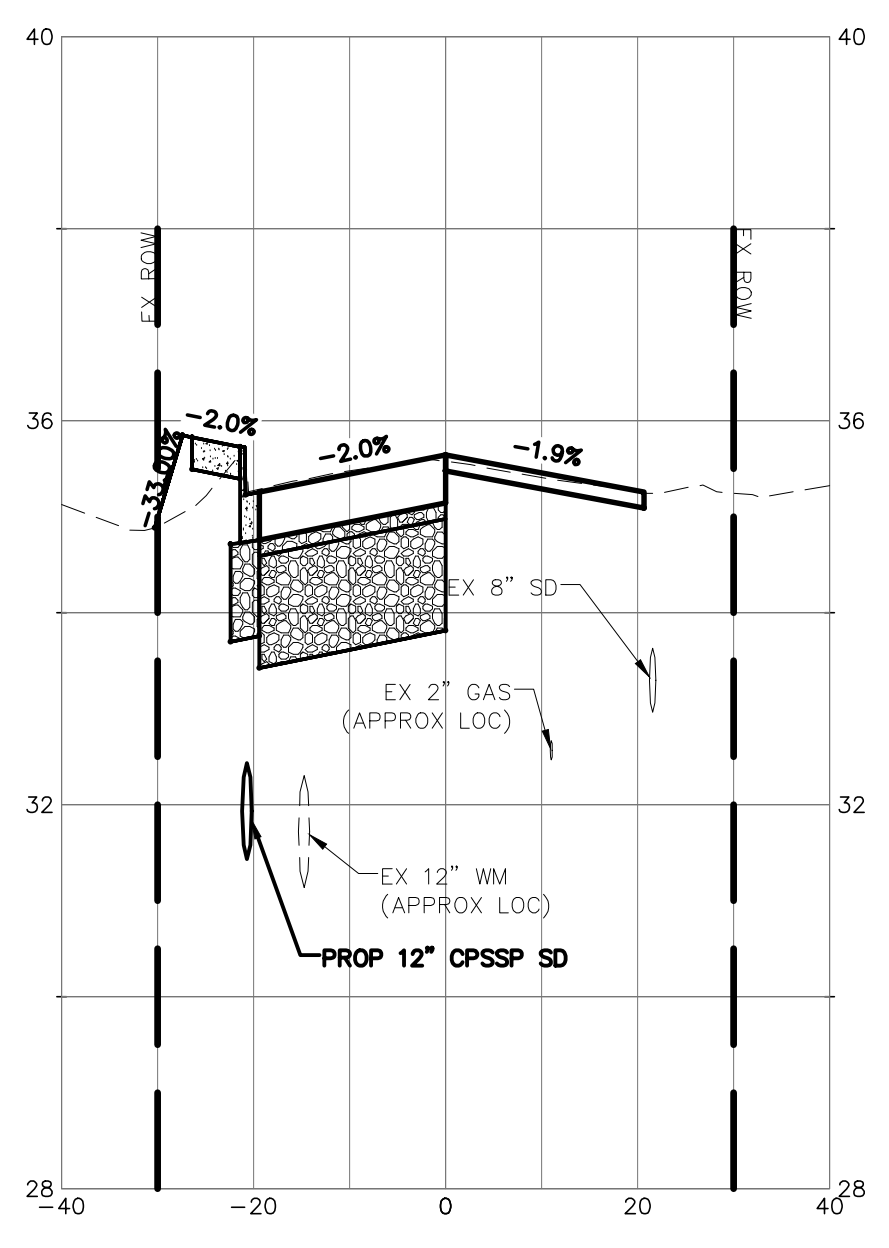
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STA 1+00



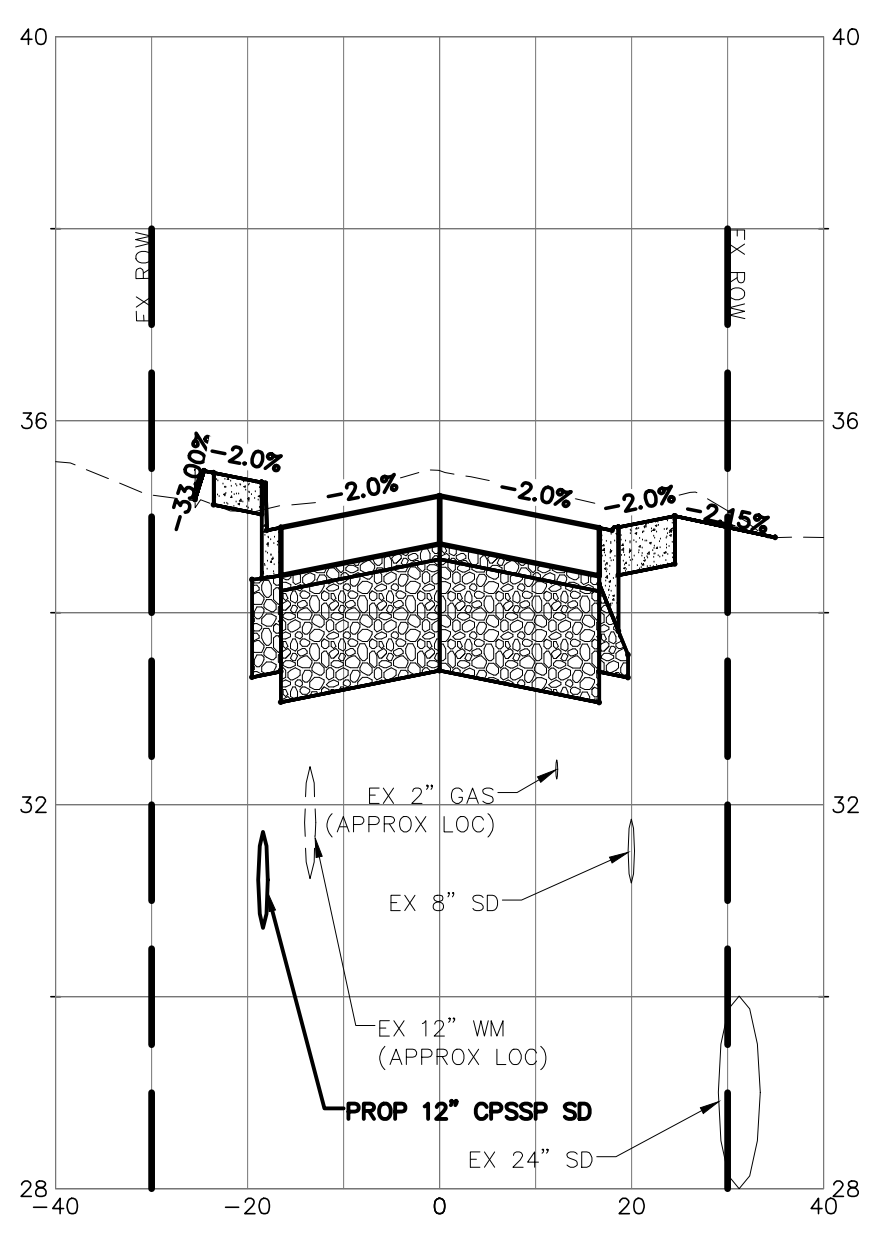
WASHINGTON STREET CL
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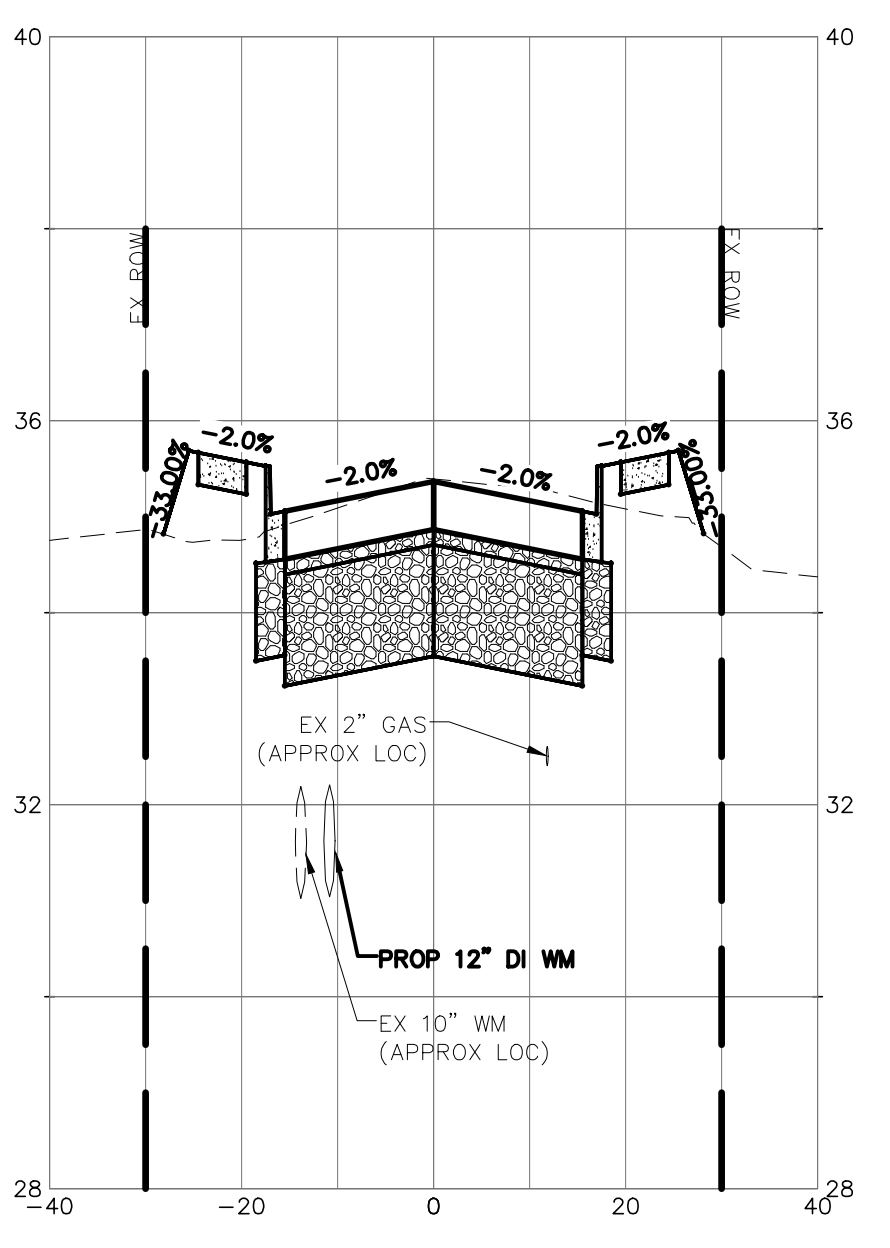
WASHINGTON STREET CL
STA 3+00



WASHINGTON STREET CL
STA 4+00



WASHINGTON STREET CL
STA 5+00



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CITY OF FERDALE
2095 MAIN STREET
FERDALE, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
CROSS SECTIONS STA 1+00 - 6+50

DWG 15036 PROBASE

JOB#

15036

SCALE

H: 1"=20'

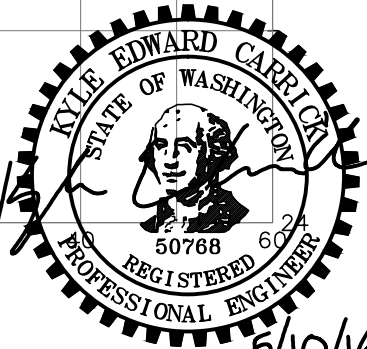
V: 1"=2'

DATE 5/10/2016

SHEET

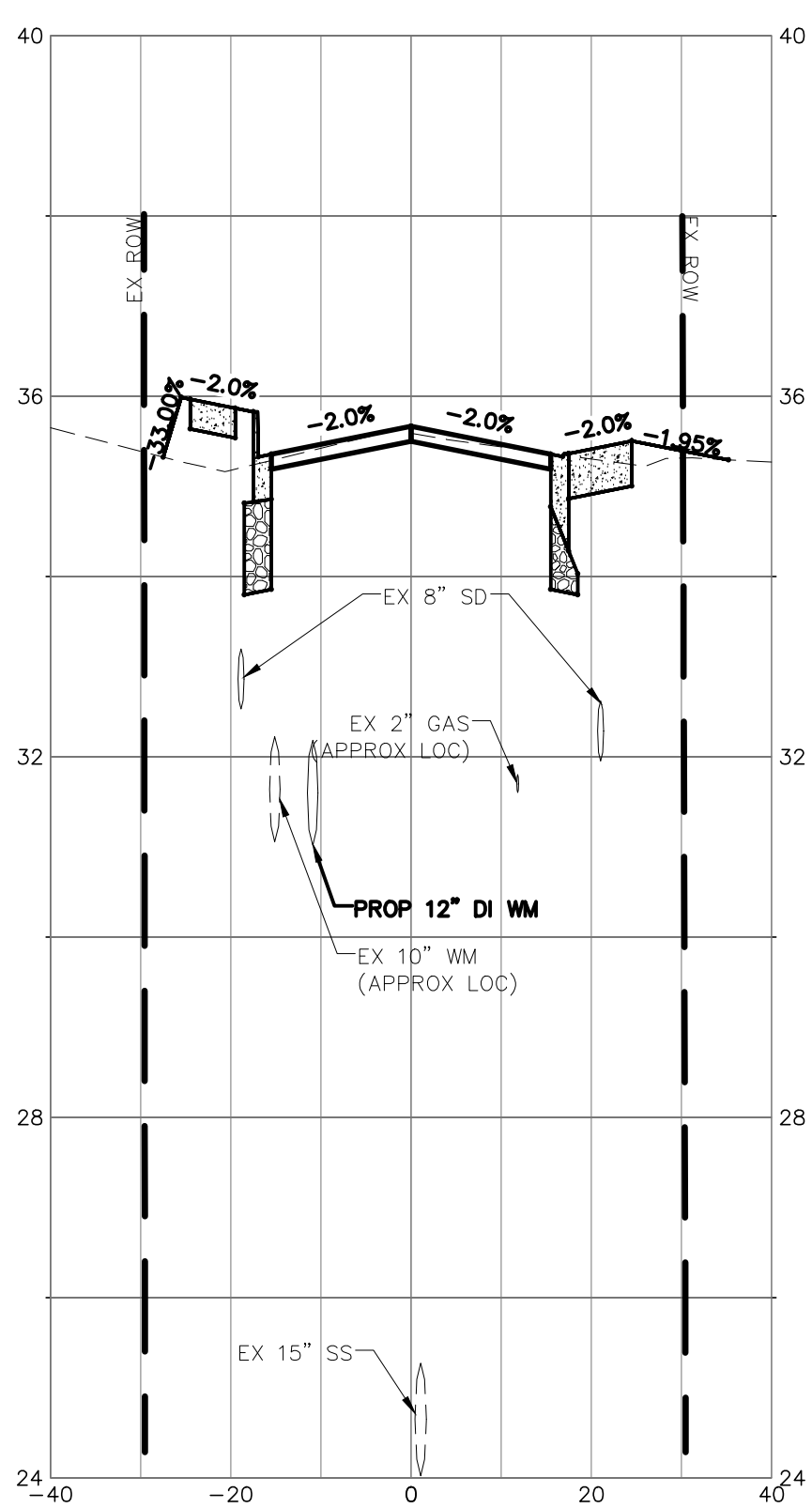
16

of 17

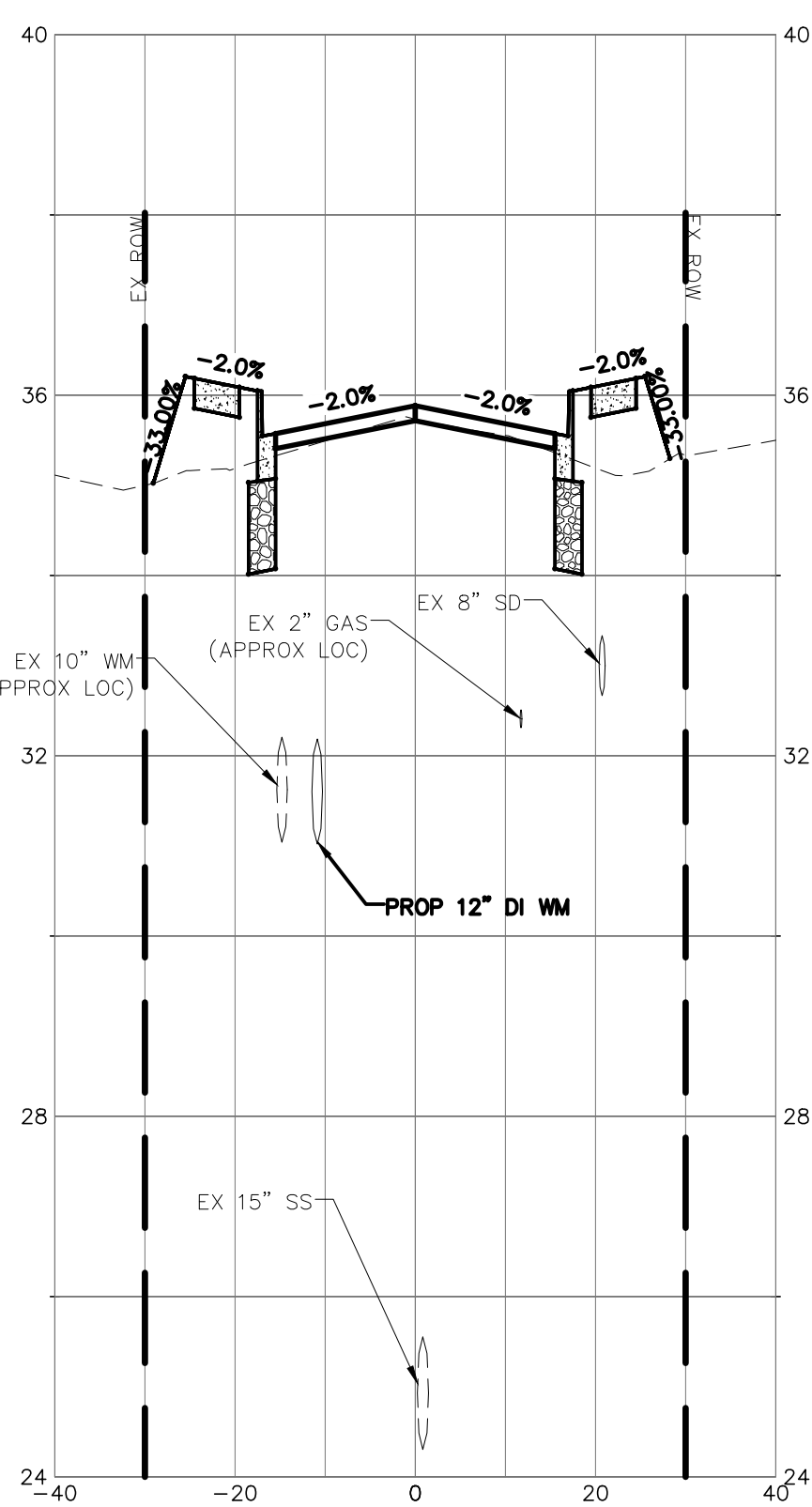


BID SET

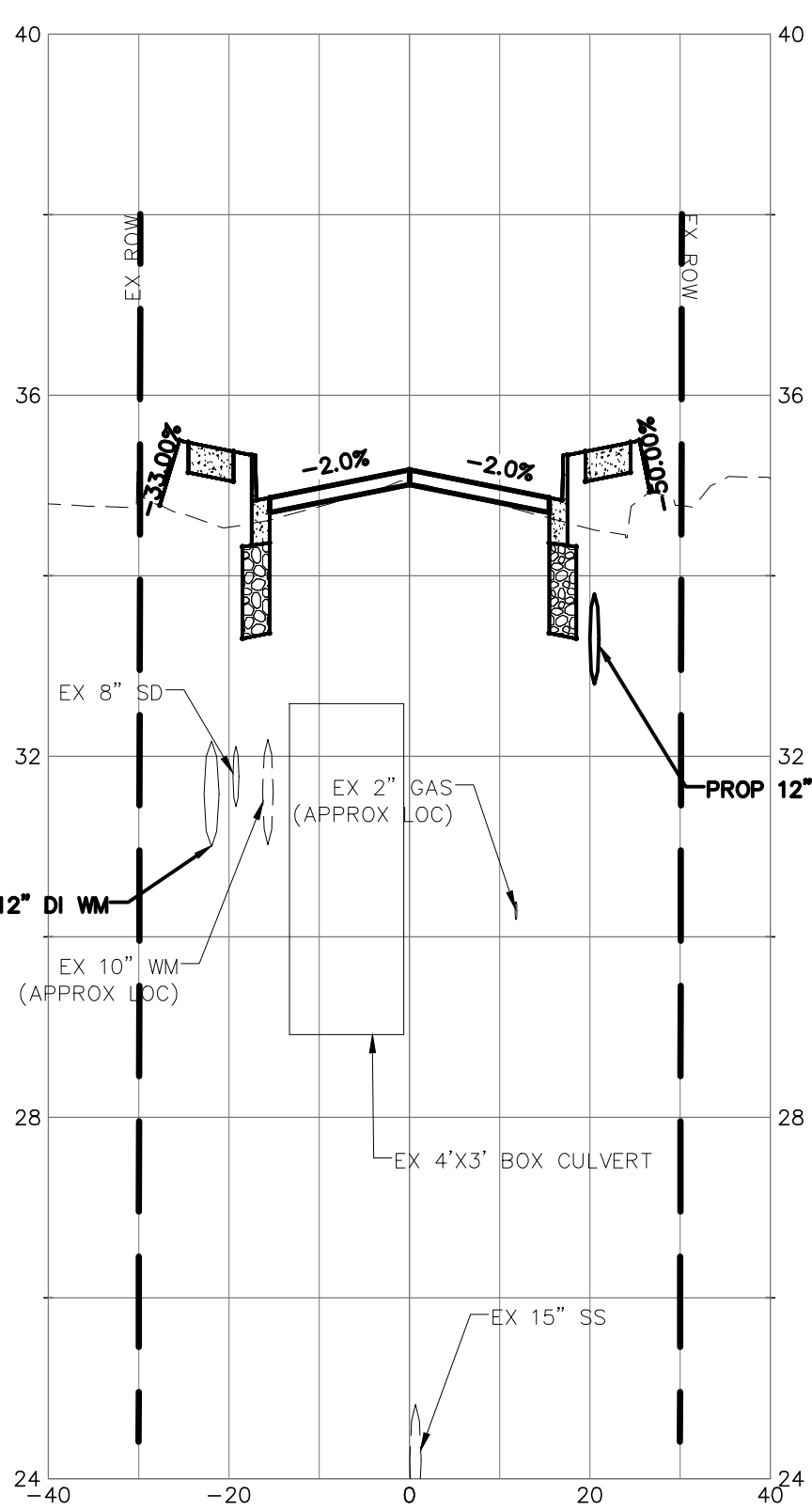
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STA 7+00



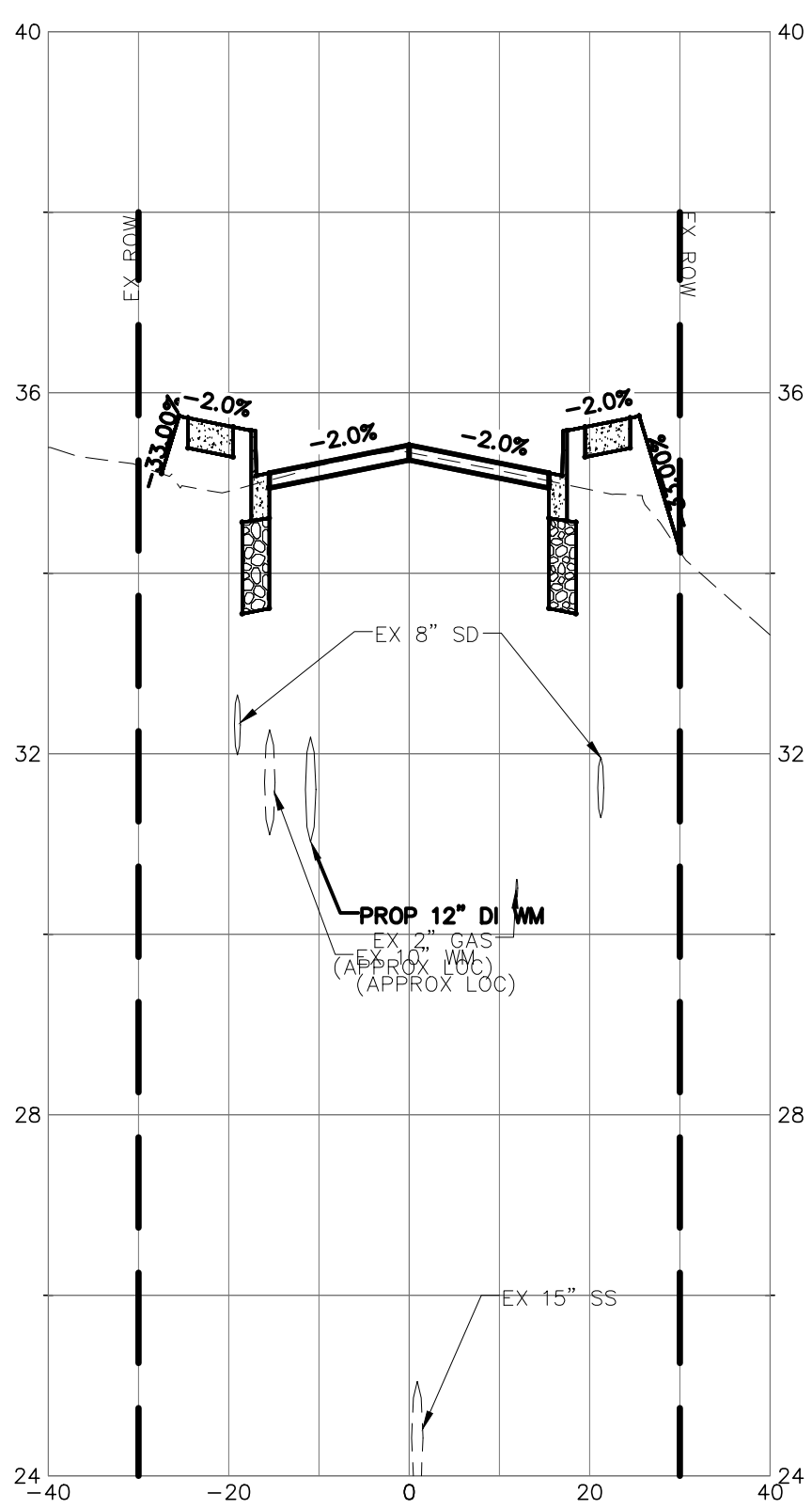
WASHINGTON STREET CL
STA 6+50



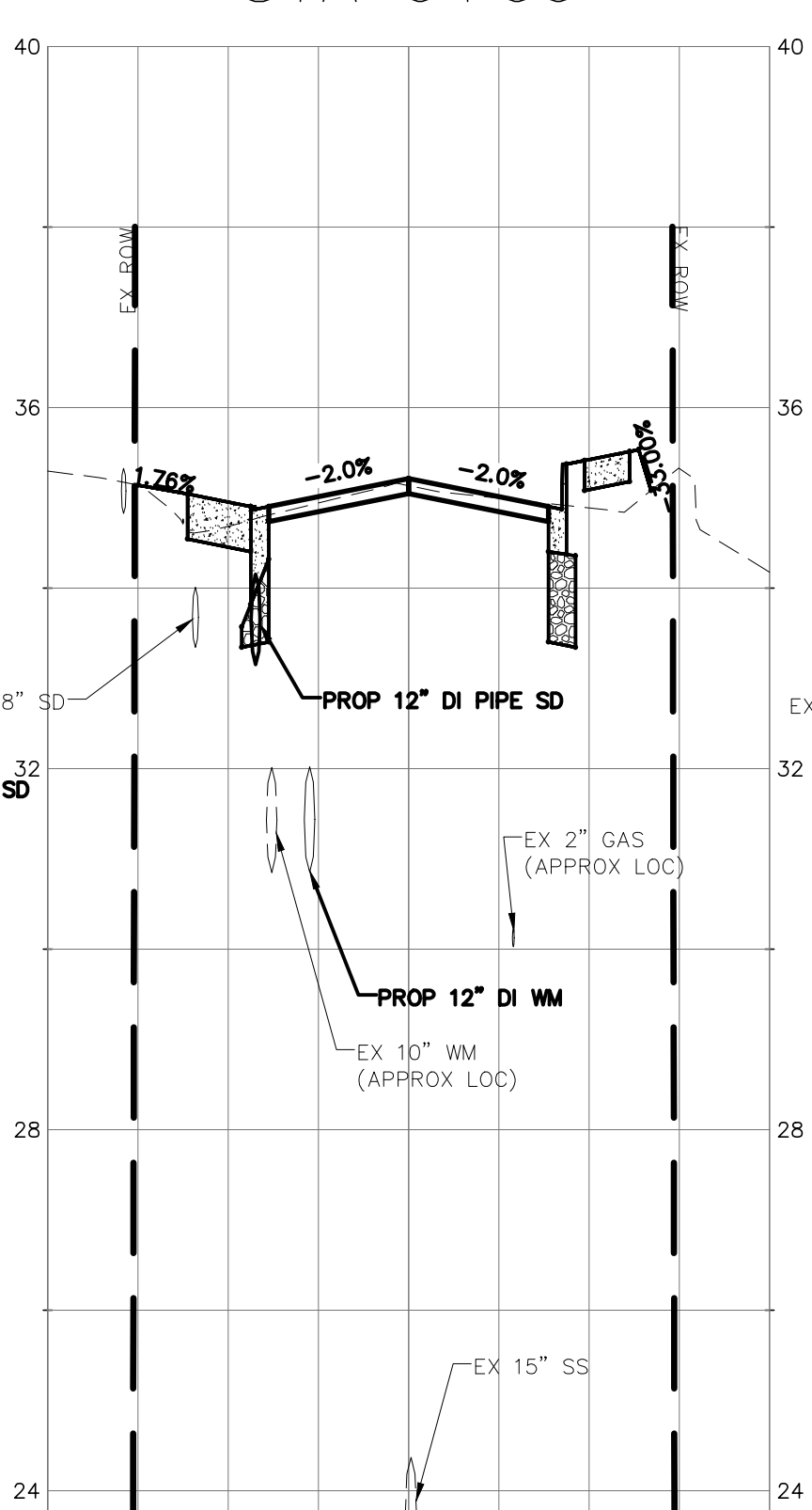
WASHINGTON STREET CL
STA 8+00



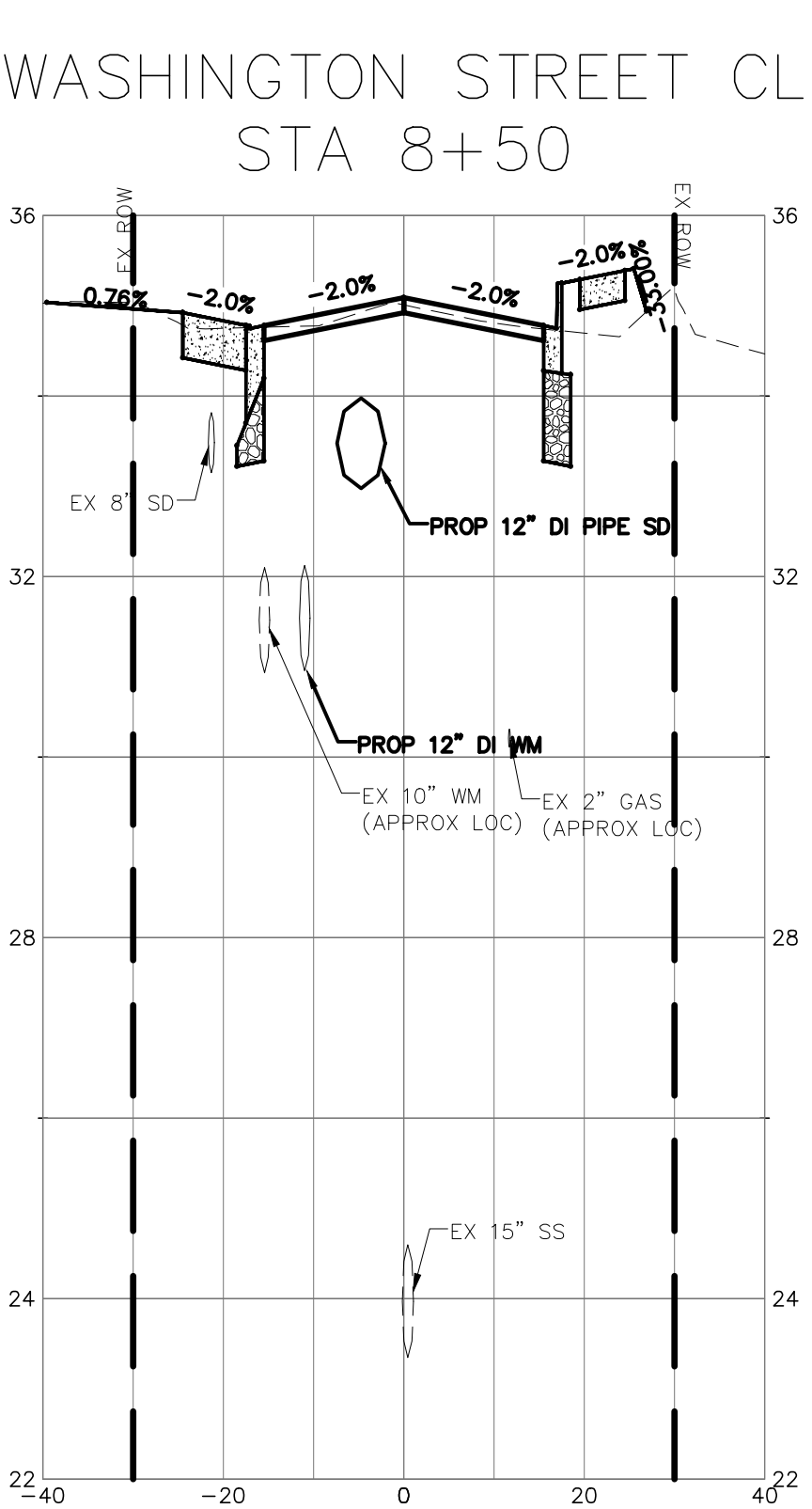
WASHINGTON STREET CL
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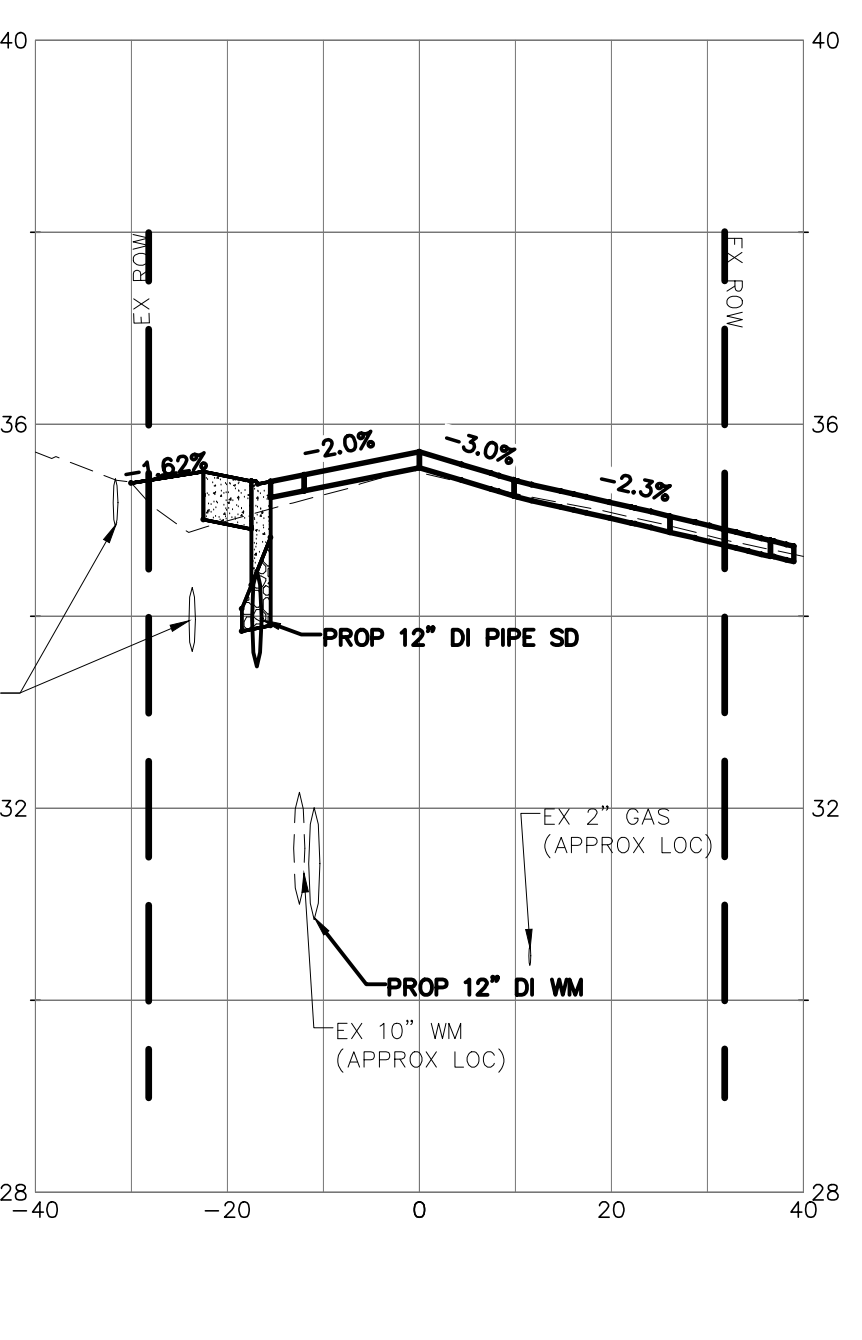
WASHINGTON STREET CL
STA 9+00



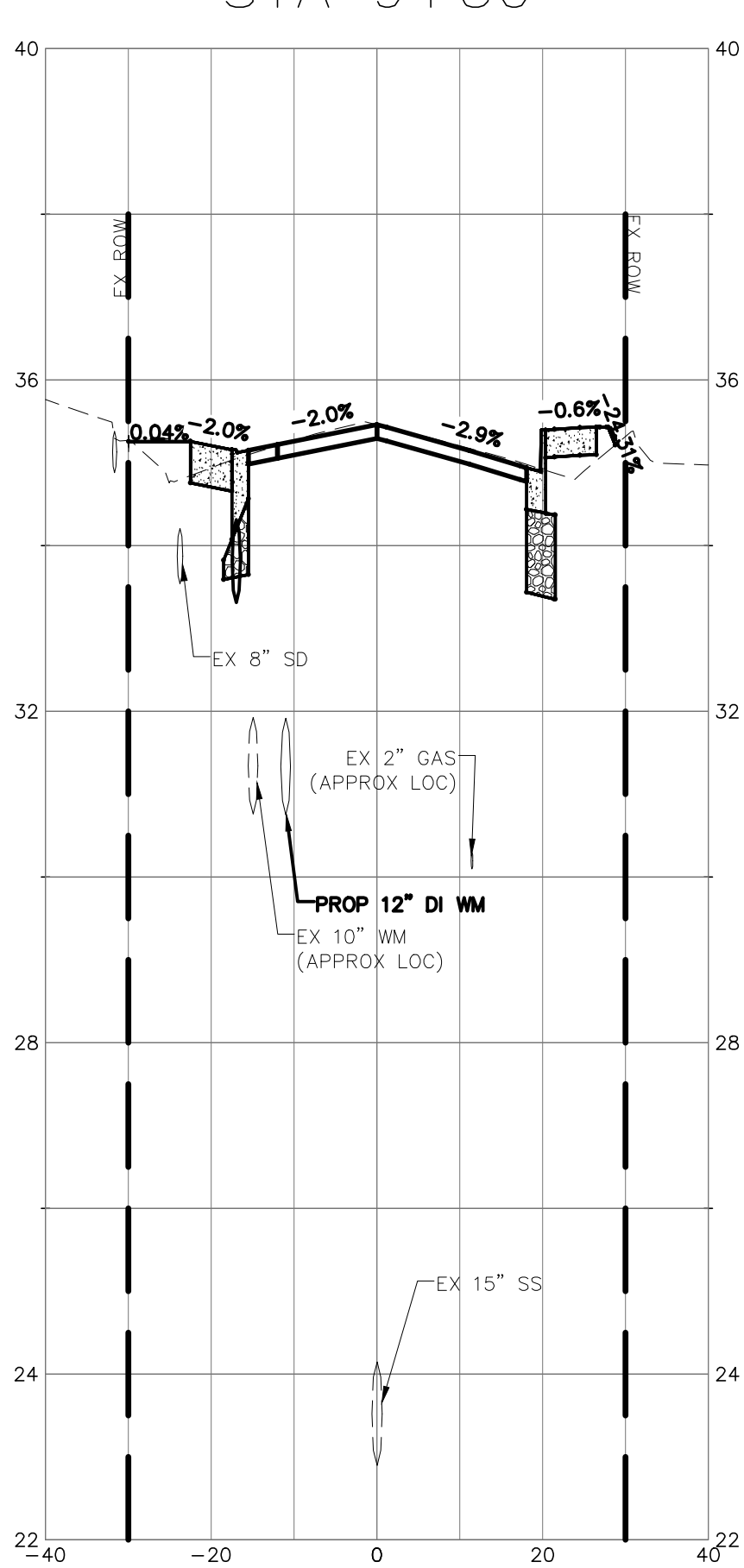
WASHINGTON STREET CL
STA 8+50



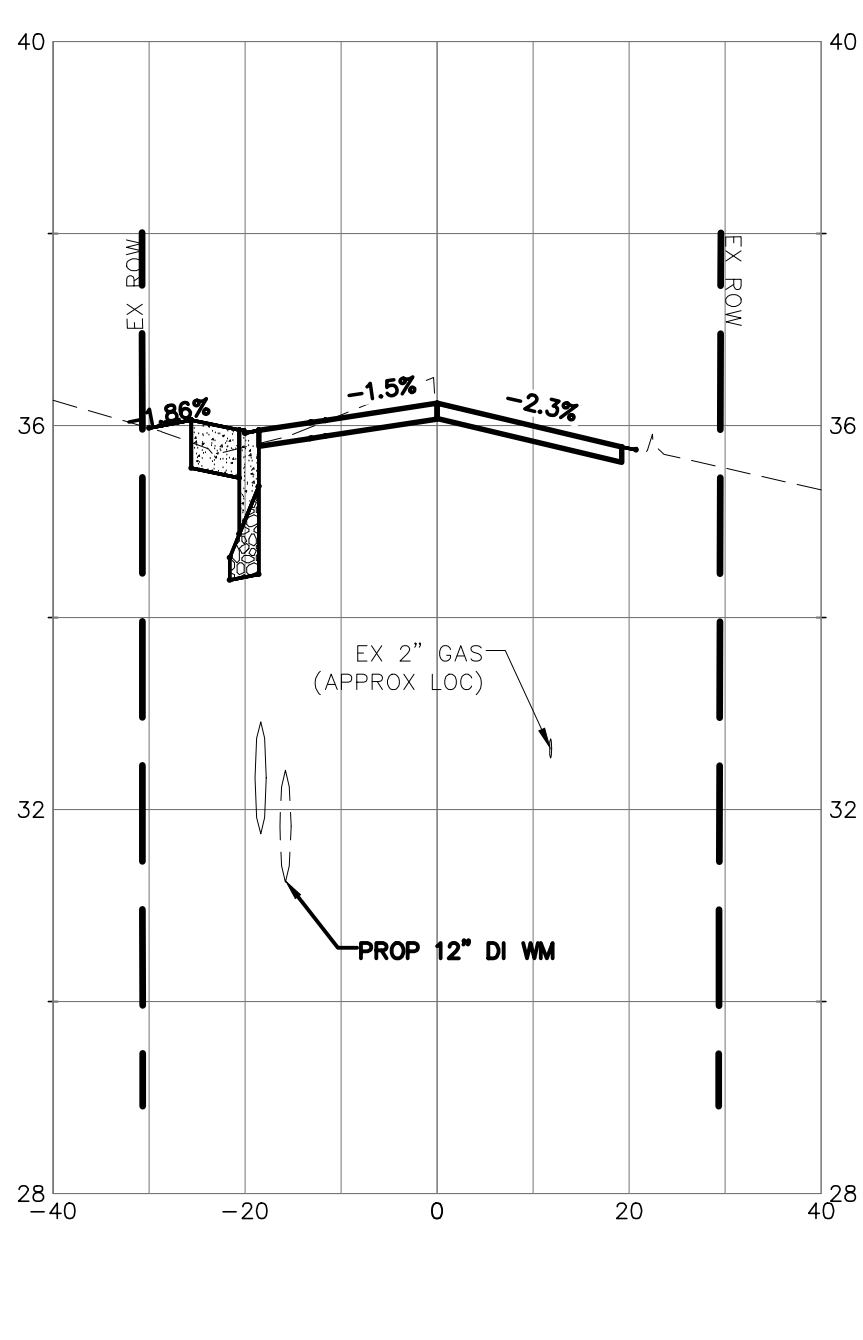
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STA 10+00



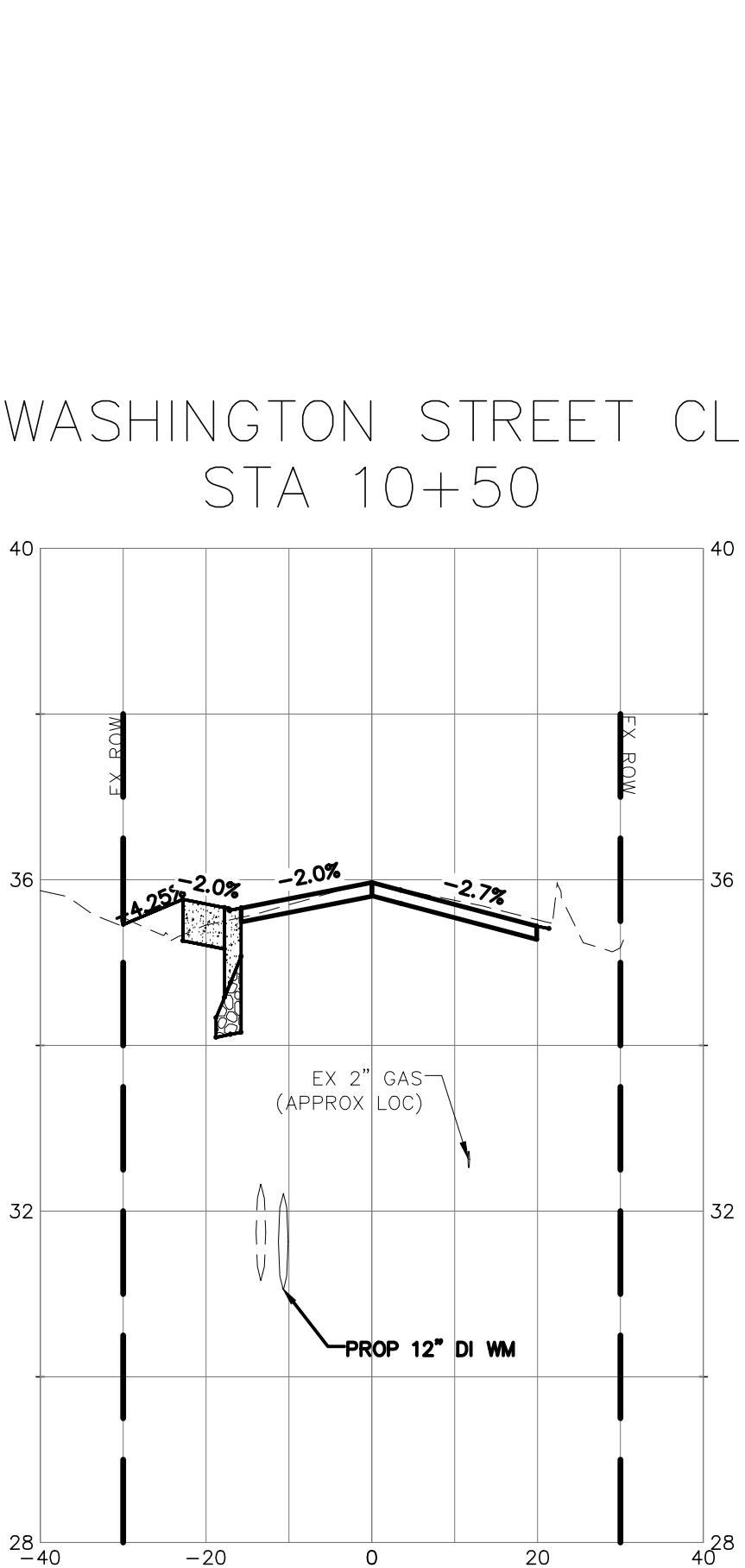
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STA 9+50



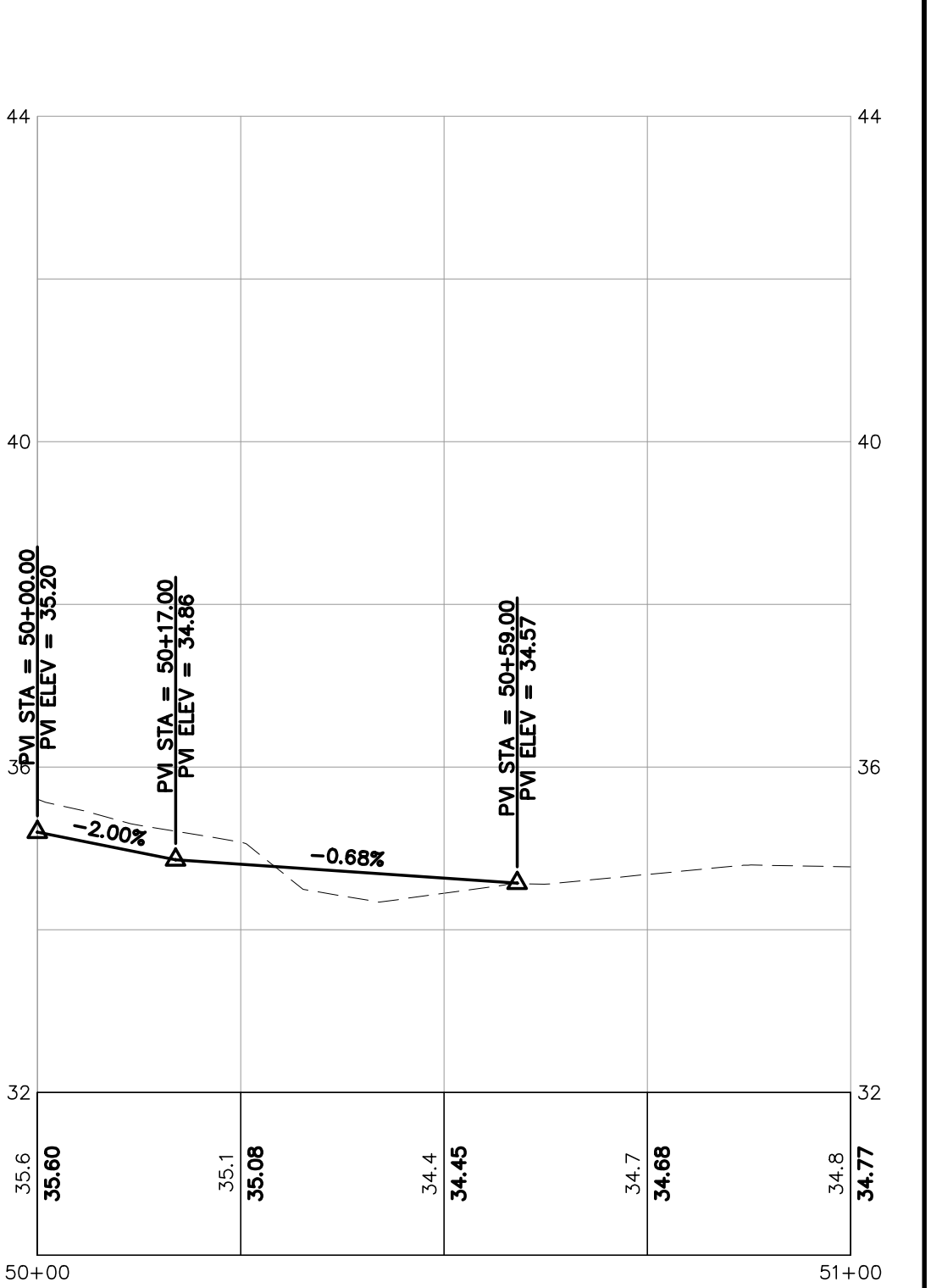
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STA 11+00



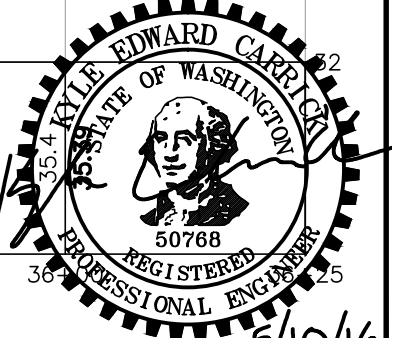
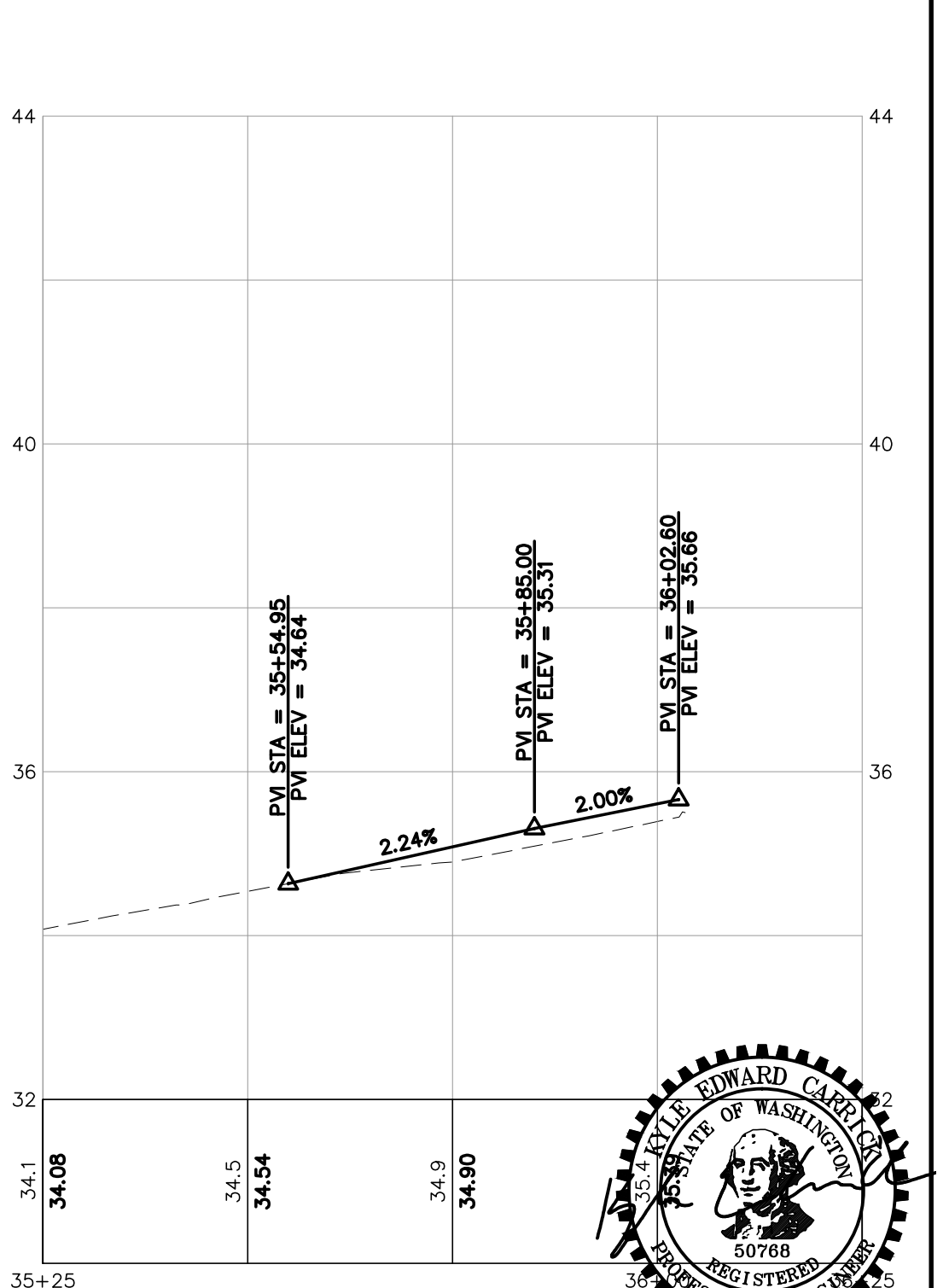
WASHINGTON STREET CL
STA 10+50



GOLDEN EAGLE CL
50+00 TO 51+00



3RD AVE CL
35+25 TO 36+25



BID SET

DESIGNED BY
KEC
DRAWN BY
PJC
CHECKED 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) 855-1713

NO.	DATE	DESCRIPTION	BY

CITY OF FERDALE
2095 MAIN STREET
FERDALE, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
CROSS SECTIONS STA 7+00 - 11+00

DWG 15036 PROBASE

JOB#

15036

SCALE

H: 1"=20'

V: 1"=2'

DATE 5/10/2016

SHEET

17

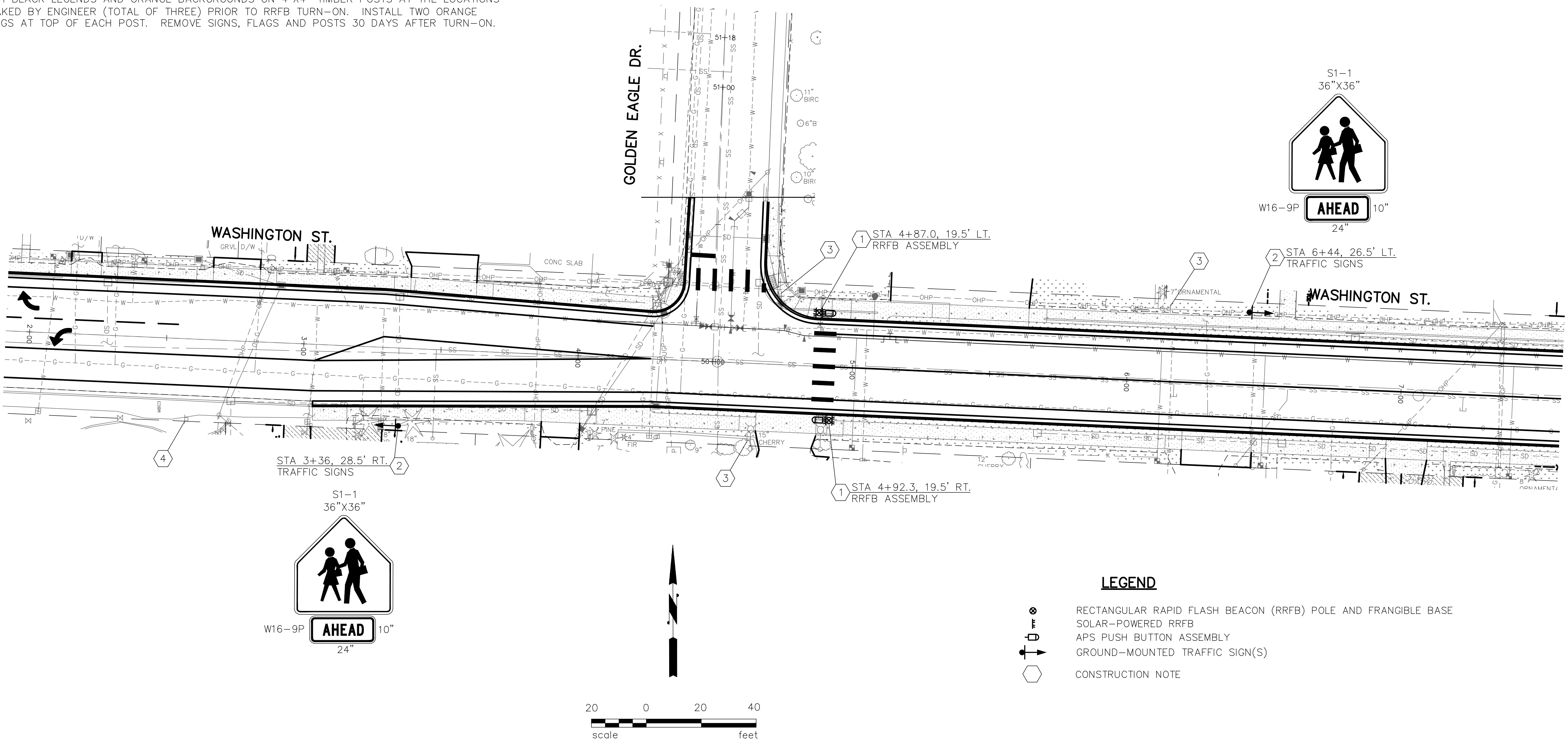
of 17

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2016 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND ITS AMENDMENTS, SPECIAL PROVISIONS, WSDOT STANDARD PLANS AND NATIONAL ELECTRICAL CODE (ALL CURRENT VERSIONS).
2. THIS PROJECT INVOLVES CONTRACTING AGENCY-SUPPLIED MATERIALS. ALL MATERIALS NOT LISTED AS AGENCY-SUPPLIED SHALL BE FURNISHED BY THE CONTRACTOR. SEE SPECIAL PROVISIONS.
3. ALL RRFB FOUNDATIONS AND SIGN LOCATIONS SHALL BE POTHOLED FOR UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
4. ALL PERMANENT WARNING SIGNS SHALL BE BLACK SYMBOLS/LEGENDS/BORDERS ON FLUORESCENT YELLOW GREEN BACKGROUND.
5. 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 THREE) PRIOR TO RRFB TURN-ON. INSTALL TWO ORANGE FLAGS AT TOP OF EACH POST. REMOVE SIGNS, FLAGS AND POSTS 30 DAYS AFTER TURN-ON.

CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION AT LOCATION SHOWN PER FOUNDATION DETAIL ON SHEET TS3. INSTALL RRFB ASSEMBLY PER DETAILS ON SHEET TS2.
2. INSTALL FOUNDATION, SQUARE STEEL SIGN SUPPORT AND TWO TRAFFIC SIGNS AT LOCATION SHOWN. USE WSDOT STANDARD PLAN G-24.50-03, TYPE ST-2. MOUNT W16-9P SIGN AT 7' ABOVE GRADE. MOUNT S1-1 SIGN DIRECTLY ABOVE W16-9P.
3. REMOVE EXISTING S1-1 SCHOOL SIGN, POST AND MOUNTING (IF ANY) AND DELIVER TO CITY SHOPS.
4. REMOVE EXISTING S1-1 SCHOOL SIGN AND DELIVER TO CITY SHOPS. RELOCATE EXISTING "NO PARKING ANY TIME" SIGN TO 7' ABOVE GRADE ON EXISTING POST.



DRAWN	RMH				
DESIGNED	RMH				
CHECKED	5/3/16 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB.DWG				
DATE		REVISION		BY	APP'D

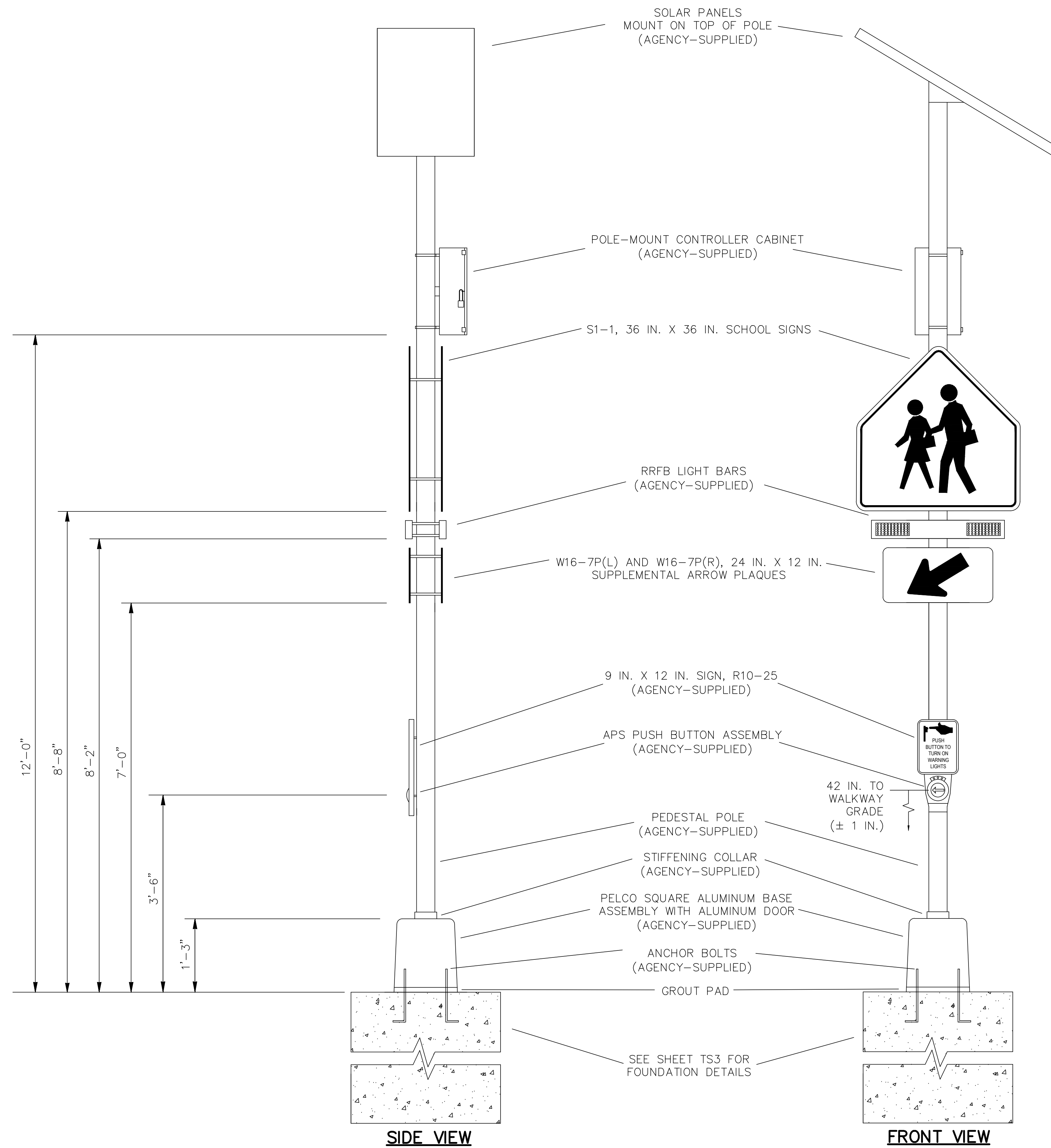
FOR:
REICHHARDT & EBE ENGINEERING, INC.
813 Metcalf Street
Sedro-Woolley, WA 98284



HTE HERMAN TRAFFIC ENGINEERING

15324 Southeast 133rd Court, Renton, Washington 98059
425-277-1740 tel. 425-277-5718 fax hte@comcast.net

CITY OF FERDALE	WASHINGTON	TS1
WASHINGTON STREET/GOLDEN EAGLE DRIVE		SHEET
RECTANGULAR RAPID FLASH BEACON PLAN		OF
		SHEETS



RRFB NOTES

1. USE STAINLESS STEEL MOUNTING CLAMPS AND BRACKETS TO MOUNT SIGNS, RRFB AND CONTOLLER CABINET TO POLE.
2. ALL APS PUSH BUTTONS (FACE OF PUSH BUTTON) SHALL BE ORIENTED PARALLEL WITH CROSSWALK.
3. CONTRACTOR SHALL CONSTRUCT EACH RRFB ASSEMBLY AS SHOWN INCLUDING INTERNAL WIRING TERMINATIONS PER MANUFACTURER'S RECOMMENDATIONS.

RECTANGULAR RAPID FLASH BEACON ASSEMBLY DETAIL
(NOT TO SCALE)

DRAWN	RMH				
DESIGNED	RMH				
CHECKED	5/3/16 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB.DWG				
DATE		REVISION		BY	APP'D

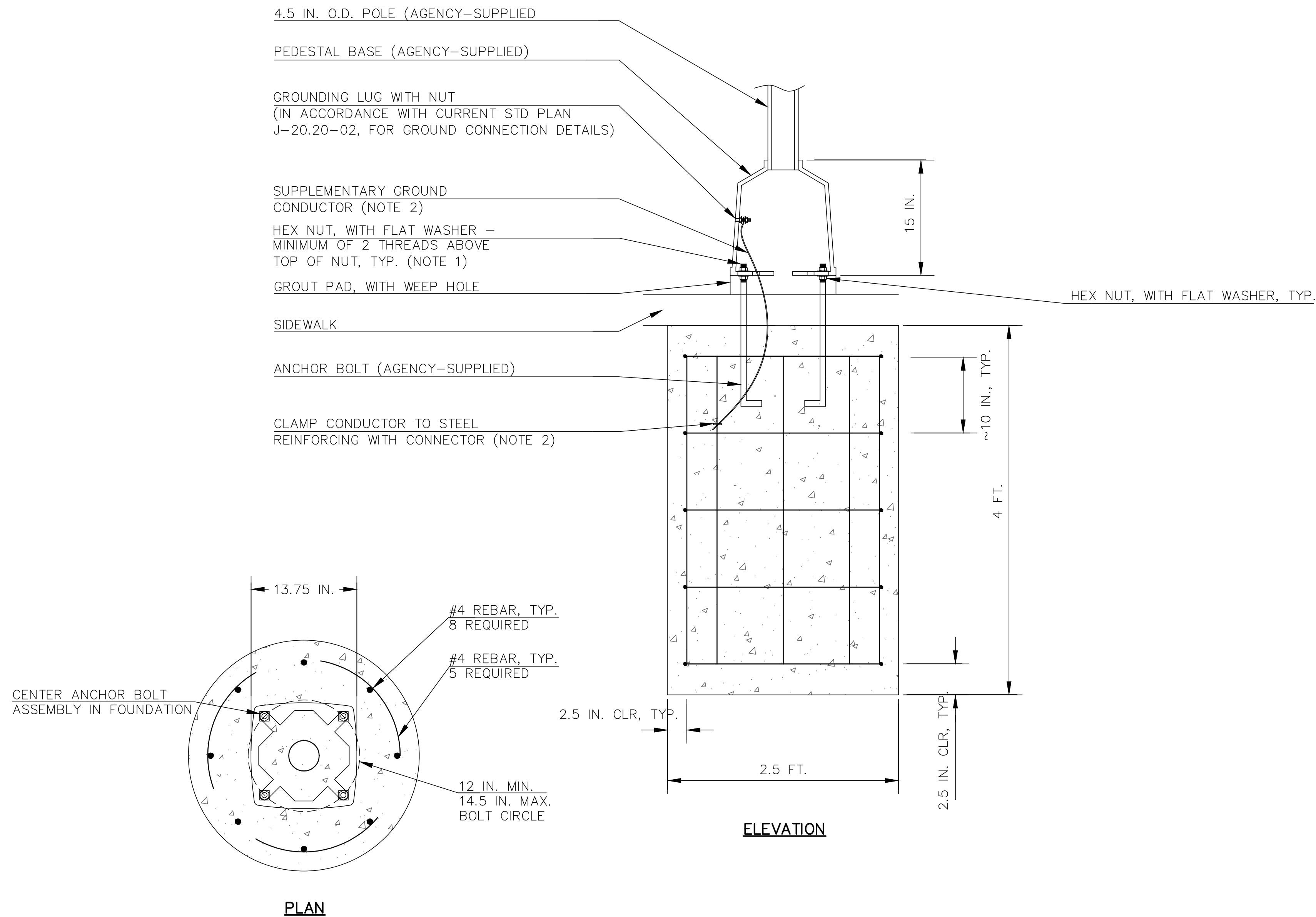
FOR:
REICHHARDT & EBE ENGINEERING, INC.
813 Metcalf Street
Sedro-Woolley, WA 98284



HTE HERMAN TRAFFIC ENGINEERING

15324 Southeast 133rd Court, Renton, Washington 98059
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CITY OF FERNDALE	WASHINGTON	TS2
WASHINGTON STREET/GOLDEN EAGLE DRIVE		SHEET
RRFB ASSEMBLY DETAIL		OF
		SHEETS



RRFB ASSEMBLY FOUNDATION DETAIL
(NOT TO SCALE)

NOTES

- CLAMPING BOLTS SHALL BE TIGHTENED TO 50 FT-LBS MAX TORQUE. DO NOT OVERTIGHTEN.
- SUPPLEMENTAL GROUNDING CONDUCTOR SHALL BE NON-INSULATED #4 AWG STRANDED COPPER, PROVIDE 3 FT. MIN. SLACK. CLAMP TO VERTICAL STEEL REINFORCING BAR WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE.
- EQUIPMENT GROUNDING CONDUCTOR SHALL ATTACH FROM GROUND ROD TO GROUNDING LUG WITH A FULL CIRCLE CRIMP-ON CONNECTOR (CRIMPED WITH A MANUFACTURER'S RECOMMENDED CRIMPER).

DRAWN	RMH				
DESIGNED	RMH				
CHECKED	5/3/16 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB.DWG				
	DATE	REVISION	BY	APP'D	

FOR:

REICHHARDT & EBE ENGINEERING, INC.
813 Metcalf Street
Sedro-Woolley, WA 98284



HTE HERMAN TRAFFIC ENGINEERING

15324 Southeast 133rd Court, Renton, Washington 98059
425-277-1740 tel. 425-277-5718 fax hte@comcast.net

CITY OF FERNDALE WASHINGTON

WASHINGTON STREET/GOLDEN EAGLE DR.

RRFB ASSEMBLY FOUNDATION DETAIL

TS3

SHEET
OF
SHEETS