



Reichhardt & Ebe
ENGINEERING INC

TRANSMITTAL SHEET

Date sent: Tuesday, May 24, 2016
Sent to: All Planholders
Deliver to: Project Estimator
Transmission sent from: Reichhardt & Ebe Engineering

CONFIRMATION OF RECEIPT OF ADDENDUM

**PROJECT: WASHINGTON ST., VISTA DR. TO THIRD AVE.
IMPROVEMENT PROJECT # ST2014-04**

Please complete the following form and email back to Reichhardt & Ebe Engineering, Inc. at officeadmin@recivil.com as soon as possible.

Have you received Addendum No. 2 for the above-mentioned project?

☐ **YES, we received Addendum No. 2**

Signed: _____ **Dated:** _____

Company name (Please Print): _____



Reichhardt & Ebe

ENGINEERING INC

TRANSMITTAL SHEET

TO:
ALL BIDDERS

FROM:
Luis Ponce, P.E.

COMPANY:

DATE:
May 24, 2016

ADDRESS:

TOTAL NO. OF PAGES INCLUDING COVER:
23

RE:

City of Ferndale
Addendum 2
WASHINGTON STREET, VISTA DR. TO THIRD AVE. IMPROVEMENT PROJECT # ST2014-04

NOTES/COMMENTS:

To the attention of all bidders for the above project:

Please find the enclosed Addendum for the above referenced project.

The enclosed ADDENDUM is to be considered as much a part of the Contract Documents as if it were included in the body of the plans and specifications, and will be incorporated in and made a part of the contract when awarded and when formally executed.

The Bidder shall acknowledge in writing, on the bid form, this addendum in order to have the bid considered.

Luis Ponce, P.E.



5/24/16

ADDENDUM NO. 2
To the Contract Provisions for
CITY OF FERNDALE, WASHINGTON

Washington St., Vista Dr. to Third Ave. Improvement Project
ST2014-04

ITEM 1

The Bid Proposal Form is replaced in its entirety with the attached **REVISED BID PROPOSAL FORM**. Only bids submitted on the **REVISED BID PROPOSAL FORM** will be considered responsive.

Bid Proposal Form, ITEM NO. 42, 'Cement Conc. Traffic Curb & Gutter', the quantity has been increased.

Bid Proposal Form, ITEM NO. 43, 'Cement Conc. Pedestrian Curb', the quantity has been increased.

Bid Proposal Form, ITEM NO. 47, 'Sidewalk Ramp Type Parallel A', the quantity has been increased.

Bid Proposal Form, ITEM NO. 47A, 'Sidewalk Ramp Type Parallel A (Modified)', has been added to the Bid Proposal Form.

Bid Proposal Form, ITEM NO. 49, 'Sidewalk Ramp Type Combination', has been changed to 'Sidewalk Ramp Type Perpendicular'.

Bid Proposal Form, ITEM NO. 88A, 'Service Connection 4 In. Diam.', has been changed to 'Service Connection 3 In. Diam.'.

ITEM 2

The following Plan Sheets are replaced. A summary of the changes are as follow:

- Plan Sheet 5. The demo areas at the intersection of Washington and 3rd were changed.
- Plan Sheet 8, 10, and 13. ADA ramps were added at the intersection of Washington and 3rd.
- Plan Sheet 9. Approximately STA 5+01 RT. 4" service changed to 3" service.
- Plan Sheet 12. ADA ramps were added at the intersection of Washington and 3rd and signs No. 8 and No. 9 were deleted.
- Plan Sheet 15. The Water Service Connection Detail is revised.

ITEM 3

The 4 In. Diam. Service Connection Detail issued under Addendum 1 is deleted and replaced with the attached 3 In. Diam. Service Connection Detail.

ITEM 4

The attached Sidewalk Ramp Type Parallel A (Modified) Detail is added to the Contract Documents.

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

() SECTION REFERENCE

May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
9	11,280 LINEAR FOOT-INCH	SAWCUT ACP (2-02)	\$	\$
			per LF-IN	
10	855 LINEAR FOOT-INCH	SAWCUT PCC (2-02)	\$	\$
			per LF-IN	
11	100 CUBIC YARD	EMBANKMENT COMPACTION (2-03)	\$	\$
			per CY	
12	700 CUBIC YARD	ROADWAY EXCAVATION INCLUDING HAUL (2-03)	\$	\$
			per CY	
13	20 M GAL.	WATER (2-07)	\$	\$
			per M GAL.	
14	4,020 SQUARE FOOT	SHORING OR EXTRA EXCAVATION CLASS B (2-09)	\$	\$
			per SF	
15	530 TON	GRAVEL BASE INCLUDING HAUL (4-02)	\$	\$
			per TON	
16	730 TON	CRUSHED SURFACING TOP COURSE (4-04)	\$	\$
			per TON	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

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May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
17	225 TON	HMA FOR PRELEVELING CLASS 1/2" PG 64-22 (5-04)		
			\$	\$
			per TON	
18	1,125 TON	HMA CLASS 1/2" PG 64-22 (5-04)		
			\$	\$
			per TON	
19	2,400 SQUARE YARD	PLANING BITUMINOUS PAVEMENT (5-04)		
			\$	\$
			per SY	
20	0 CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT (5-04)		
			\$ 0.00	\$ 0.00
			CALC	
21	0 CALC	COMPACTION PRICE ADJUSTMENT (5-04)		
			\$ 0.00	\$ 0.00
			CALC	
22	58 LINEAR FOOT	PEDESTRIAN RAILING (6-06)		
			\$	\$
			per LF	
23	17 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 4 IN. DIAM. (7-04)		
			\$	\$
			per LF	
24	180 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 8 IN. DIAM. (7-04)		
			\$	\$
			per LF	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

() SECTION REFERENCE

May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
25	200 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 12 IN. DIAM. (7-04)	\$	\$
			per LF	
26	15 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 18 IN. DIAM. (7-04)	\$	\$
			per LF	
27	50 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 24 IN. DIAM. (7-04)	\$	\$
			per LF	
28	80 LINEAR FOOT	DUCTILE IRON STORM SEWER PIPE 8 IN. DIAM. (7-04)	\$	\$
			per LF	
29	220 LINEAR FOOT	DUCTILE IRON STORM SEWER PIPE 12 IN. DIAM. (7-04)	\$	\$
			per LF	
30	4 EACH	CONCRETE INLET (7-05)	\$	\$
			per EA	
31	11 EACH	CATCHBASIN TYPE 1 (7-05)	\$	\$
			per EA	
32	1 EACH	CATCHBASIN TYPE 2, 54 IN. DIAM. (7-05)	\$	\$
			per EA	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

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May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
33	1 LUMP SUM	ADJUSTMENTS TO FINISHED GRADE (7-05)		
			\$	\$
			per LS	
34	75 CUBIC YARD	REMOVAL OF UNSUITABLE MATERIAL INCL. HAUL (7-08)		
			\$	\$
			per CY	
35	1 FORCE ACCOUNT	EROSION/WATER POLLUTION CONTROL (8-01)		
			\$	\$
			2,500.00	2,500.00
			FA	
36	1 LUMP SUM	ESC LEAD (8-01)		
			\$	\$
			per LS	
37	410 LINEAR FOOT	SILT FENCE (8-01)		
			\$	\$
			per LF	
38	19 EACH	INLET PROTECTION (8-01)		
			\$	\$
			per EA	
39	1 LUMP SUM	SWPP PLAN PREPARATION (8-01)		
			\$	\$
			per LS	
40	690 SQUARE YARD	SEEDED LAWN INSTALLATION (8-02)		
			\$	\$
			per SY	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

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May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
41	1 FORCE ACCOUNT	LANDSCAPE RESTORATION (8-02)		
			\$ 3,000.00	\$ 3,000.00
			FA	
42	1,990 LINEAR FOOT	CEMENT CONC. TRAFFIC CURB & GUTTER (8-04)		
			\$	\$
			per LF	
43	150 LINEAR FOOT	CEMENT CONC. PEDESTRIAN CURB (8-04)		
			\$	\$
			per LF	
44	85 SQUARE YARD	REINFORCED CEMENT CONC. DRIVEWAY ENTRANCE 8 IN. THICK (8-06)		
			\$	\$
			per SY	
45	315 SQUARE YARD	CEMENT CONC. DRIVEWAY ENTRANCE 8 IN. THICK (8-06)		
			\$	\$
			per SY	
46	850 SQUARE YARD	CEMENT CONC. SIDEWALK (8-14)		
			\$	\$
			per SY	
47	9 EACH	SIDEWALK RAMP TYPE PARALLEL A (8-14)		
			\$	\$
			per EA	
47A	1 EACH	SIDEWALK RAMP TYPE PARALLEL A (MODIFIED) (8-14)		
			\$	\$
			per EA	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

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May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
48	1 EACH	SIDEWALK RAMP TYPE PARALLEL B (8-14)		
			\$	\$
			per EA	
49	1 EACH	SIDEWALK RAMP TYPE PERPENDICULAR (8-14)		
			\$	\$
			per EA	
50	1 LUMP SUM	RRFB SYSTEM (8-20)		
			\$	\$
			per LS	
51	2 EACH	MAILBOX SUPPORT TYPE 1 (8-18)		
			\$	\$
			per EA	
52	1 EACH	MAILBOX SUPPORT TYPE 2 (8-18)		
			\$	\$
			per EA	
53	1 LUMP SUM	PERMANENT SIGNING (8-21)		
			\$	\$
			per LS	
54	380 SQUARE FOOT	PLASTIC CROSSWALK LINE (8-22)		
			\$	\$
			per SF	
55	2,140 LINEAR FOOT	PAINT LINE (8-22)		
			\$	\$
			per LF	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

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ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
56	4 EACH	PLASTIC TURN ARROW (8-22)		
			\$	\$
			per EA	
57	50 LINEAR FOOT	PLASTIC STOP LINE (8-22)		
			\$	\$
			per LF	
58	1 EACH	PLASTIC RAILROAD CROSSING SYMBOL (8-22)		
			\$	\$
			per EA	
59	1 HUNDRED	RAISED PAVEMENT MARKER TYPE 2YY (8-22)		
			\$	\$
			per HUN	
60	2 HUNDRED	RAISED PAVEMENT MARKER TYPE 1Y (8-22)		
			\$	\$
			per HUN	
61	1 HUNDRED	RAISED PAVEMENT MARKER TYPE 1W (8-22)		
			\$	\$
			per HUN	
62	10 EACH	POTHOLE EXISTING UNDERGROUND UTILITY (8-30)		
			\$	\$
			per EA	
63	1 FORCE ACCOUNT	REPAIR EXISTING PUBLIC & PRIVATE FACILITIES (8-31)		
			\$	\$
			20,000.00	20,000.00
			FA	

SCHEDULE A SUBTOTAL: \$

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

() SECTION REFERENCE

May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
64	1 LUMP SUM	MOBILIZATION (1-09.7)		
			\$	\$
			per LS	
65	140 HOUR	FLAGGERS AND SPOTTERS (1-10)		
			\$	\$
			per HR	
66	10 HOUR	OTHER TRAFFIC CONTROL LABOR (1-10)		
			\$	\$
			per HR	
67	1 FORCE ACCOUNT	ABANDONMENT OF ASBESTOS CEMENT WATER MAIN (2-02)		
			\$ 5,000.00	\$ 5,000.00
			FA	
68	10 CUBIC YARD	CONTROLLED DENSITY FILL (2-09)		
			\$	\$
			per CY	
69	795 TON	GRAVEL BASE INCLUDING HAUL (4-02)		
			\$	\$
			per TON	
70	40 TON	CRUSHED SURFACING TOP COURSE (4-04)		
			\$	\$
			per TON	
71	1 LUMP SUM	ADJUSTMENT TO FINISHED GRADE (7-05)		
			\$	\$
			per LS	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

() SECTION REFERENCE

May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
72	5 LINEAR FOOT	D.I. PIPE FOR WATER MAIN 4 IN. DIAM. (7-09)		
			\$	\$
			per LF	
73	45 LINEAR FOOT	D.I. PIPE FOR WATER MAIN 6 IN. DIAM. (7-09)		
			\$	\$
			per LF	
73A	100 LINEAR FOOT	D.I. PIPE FOR WATER MAIN 8 IN. DIAM. (7-09)		
			\$	\$
			per LF	
74	755 LINEAR FOOT	D.I. PIPE FOR WATER MAIN 12 IN. DIAM. (7-09)		
			\$	\$
			per LF	
75	1 EACH	CONNECTING TO EXISTING AC WATER MAIN 4 IN. DIAM. (7-09)		
			\$	\$
			per EA	
76	1 EACH	CONNECTING TO EXISTING AC WATER MAIN 6 IN. DIAM. (7-09)		
			\$	\$
			per EA	
76A	1 EACH	CONNECTING TO EXISTING WATER MAIN 8 IN. DIAM. (7-09)		
			\$	\$
			per EA	
77	1 EACH	CONNECTING TO EXISTING WATER MAIN 10 IN. DIAM. (7-09)		
			\$	\$
			per EA	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

() SECTION REFERENCE

May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
78	1 EACH	CONNECTING TO EXISTING WATER MAIN 12 IN. DIAM. (7-09)		
			\$	\$
			per EA	
79	1 EACH	CONNECTING TO EXISTING WATER MAIN 14 IN. DIAM. (7-09)		
			\$	\$
			per EA	
80	2 EACH	STOVEPIPE WATERMAIN, 12 IN. DIAM. (7-09)		
			\$	\$
			per EA	
81		THIS ITEM INTENTIONALLY LEFT BLANK		
81A	1 EACH	MOVING EXISTING VALVE (7-12)		
			\$	\$
			per EA	
82	1 EACH	GATE VALVE 6 IN. (7-12)		
			\$	\$
			per EA	
83	2 EACH	GATE VALVE 8 IN. (7-12)		
			\$	\$
			per EA	
84	4 EACH	GATE VALVE 12 IN. (7-12)		
			\$	\$
			per EA	

CITY OF FERNDALE
WASHINGTON STREET, VISTA DRIVE TO THIRD AVENUE PROJECT

ADDENDUM NO. 2

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May 24, 2016

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
85	805 LINEAR FOOT	TESTING WATER MAIN (7-12)		
			\$	\$
			per LF	
86	2 EACH	HYDRANT ASSEMBLY (7-14)		
			\$	\$
			per EA	
87	8 EACH	SERVICE CONNECTION 3/4 IN. DIAM. (7-15)		
			\$	\$
			per EA	
88	2 EACH	SERVICE CONNECTION 2 IN. DIAM. (7-15)		
			\$	\$
			per EA	
88A	1 EACH	SERVICE CONNECTION 3 IN. DIAM. (7-15)		
			\$	\$
			per EA	
89	5 EACH	POTHOLE EXISTING UNDERGROUND UTILITY (8-30)		
			\$	\$
			per EA	
90	1 FORCE ACCOUNT	REPAIR EXISTING PUBLIC & PRIVATE FACILITIES (8-32)		
			\$	\$
			5,000.00	5,000.00
			FA	

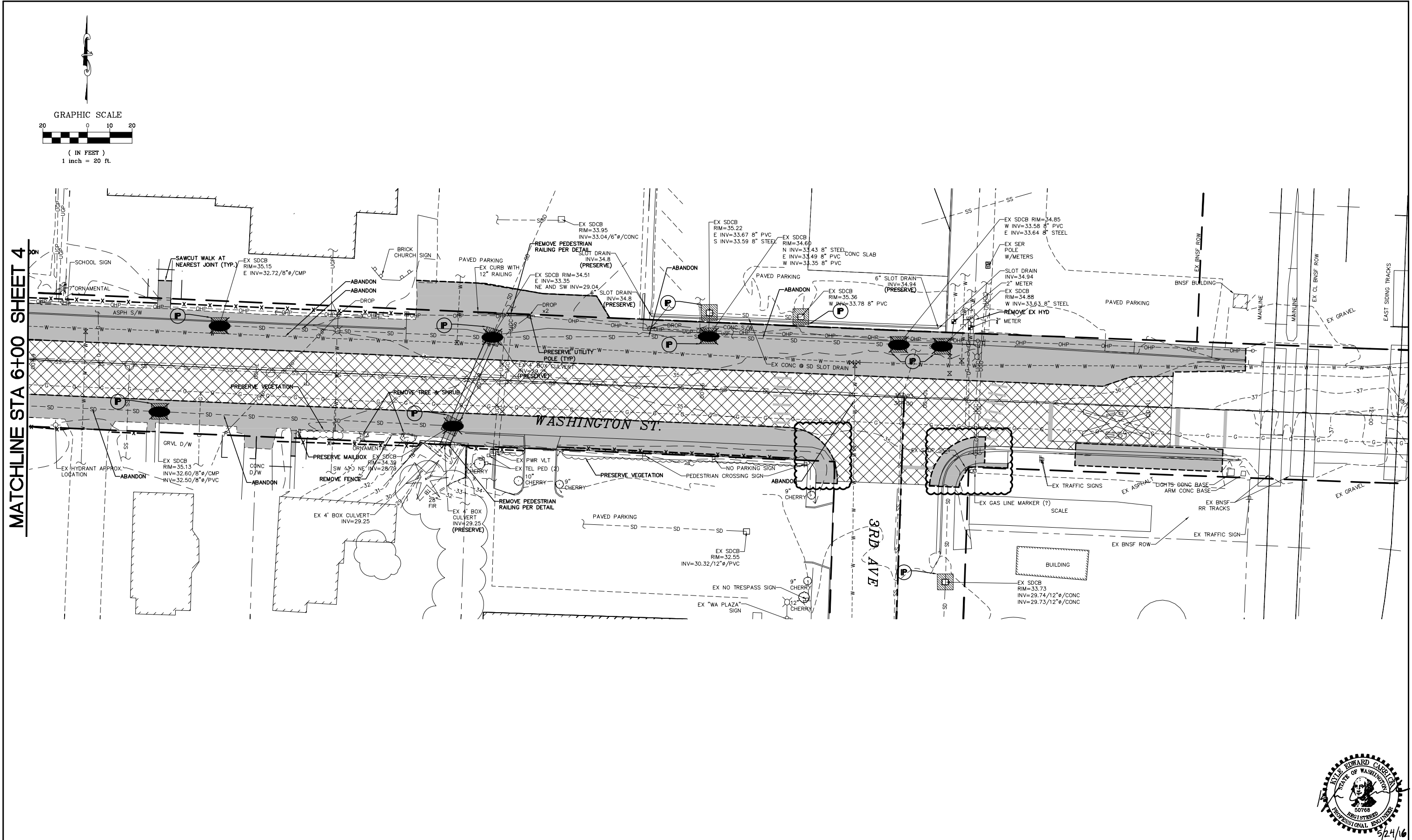
SCHEDULE B SUBTOTAL: \$

SALES TAX (8.7%): \$

SCHEDULE B TOTAL: \$

TOTAL (ALL SCHEDULES): \$

P:\Projects\15036\15036\15036\15036.dwg TESC DEMO AND EX COND.dwg TESC AND DEMO PLAN STA 6+00 - 12+00, 5/24/2016 8:40:45 AM



MATCHLINE STA 6+00 SHEET 4

5/24/16

BID SET

DESIGNED BY
KEC
DRAWN BY
PJC
CHECKED BY
KEC

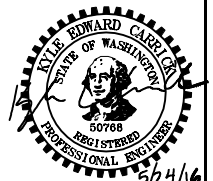
R&E Reichhardt & Ebe
ENGINEERING INC
P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687
813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

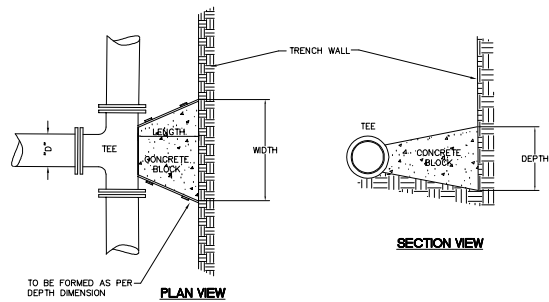
2	5/24/16	ADDENDUM #2	KEC
1	5/20/16	ADDENDUM #1	KEC
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
TESC AND DEMO PLAN STA 6+00 - 12+00

DWG 15036 PROBASE	DATE 5/10/2016
JOB# 15036	SHEET 5 of 17
SCALE H: 1"=20' V: NA	

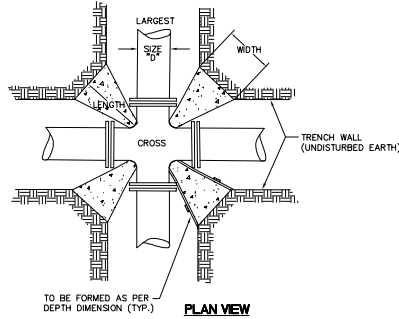




"D"	WIDTH	DEPTH	LENGTH	VOL.
6"	1'-6"	1'-6"	12"	3.0
8"	2'-0"	2'-0"	12"	4.5
10"	2'-6"	2'-6"	12"	7.0
12"	3'-0"	3'-0"	18"	14.0

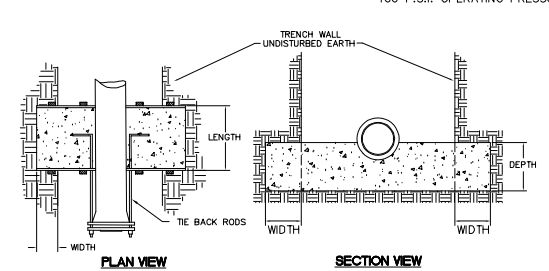
VOL. = Approx. Volume of Blocking Material Required in cu. ft.

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



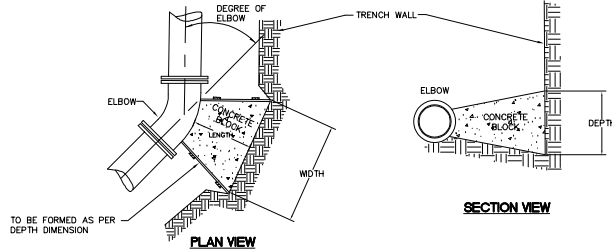
"D"	WIDTH	DEPTH	LENGTH	VOL.	X4 blocks/joint
6"	1'-0"	1'-0"	12"	0.63	2.50 cu ft.
8"	1'-3"	1'-3"	12"	1.00	4.01 cu ft.
10"	1'-6"	1'-6"	12"	1.63	6.50 cu ft.
12"	1'-9"	1'-9"	18"	3.05	12.19 cu ft.

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



"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

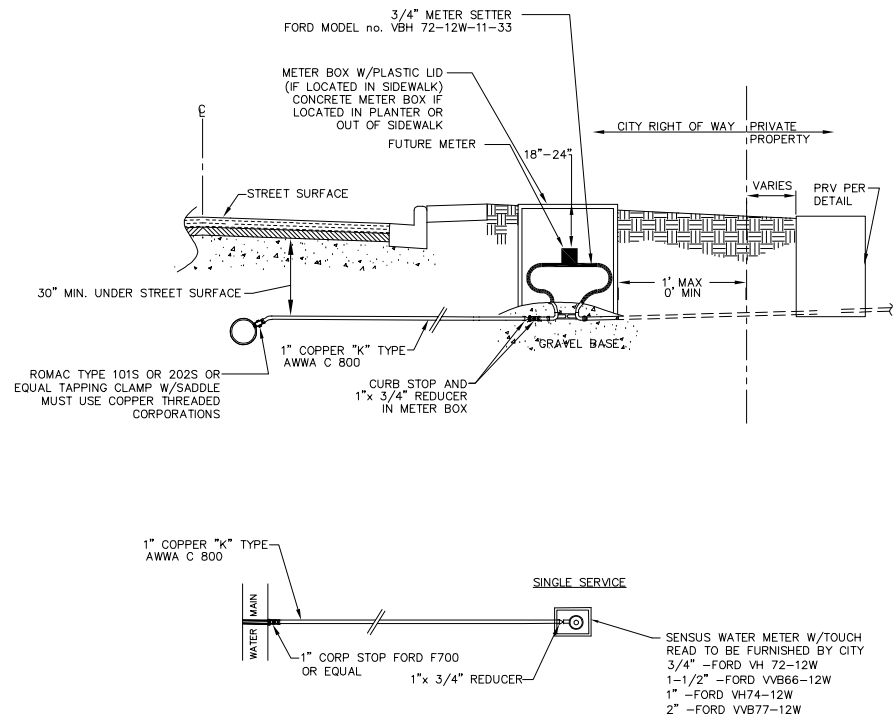


SIZE	LENGTH	11 1/4"	22 1/2"	45"	90"
6"	12"	1'-0"	1'-0"	1'-0"	1'-0"
8"	12"	1'-3"	1'-3"	1'-3"	1'-3"
10"	12"	1'-6"	1'-6"	1'-6"	1'-6"
12"	18"	2'-0"	2'-0"	2'-0"	2'-0"

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

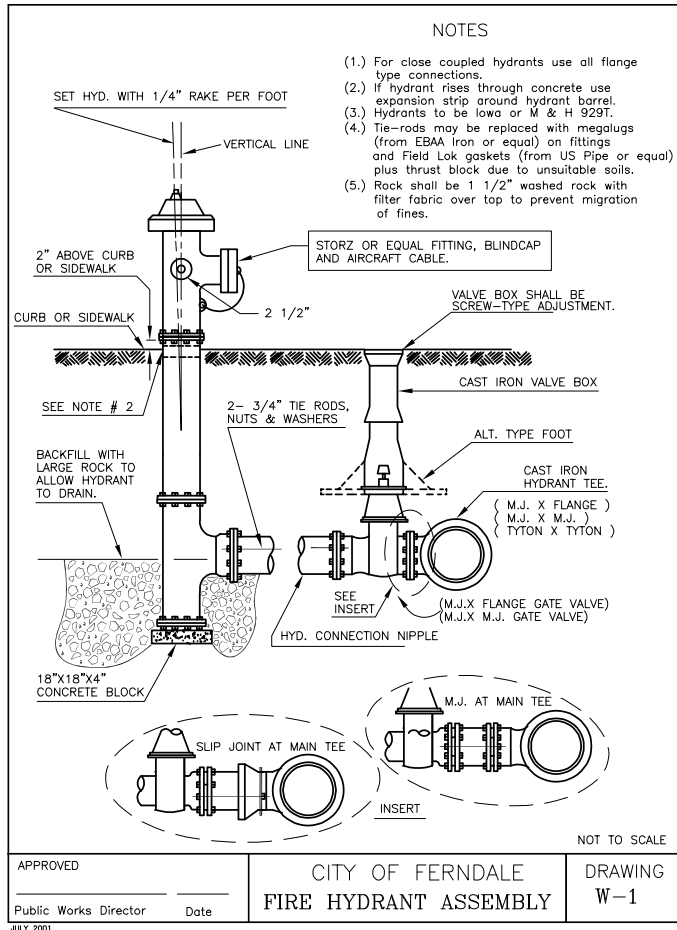
THRUST BLOCKING

NTS



WATER SERVICE CONNECTION DETAIL

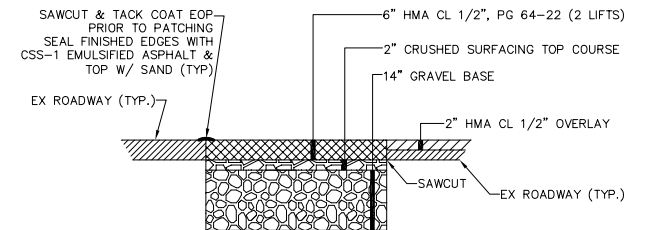
NTS



APPROVED _____ CITY OF FERNDAL FIRE HYDRANT ASSEMBLY DRAWING W-1
Public Works Director Date
JULY 2001

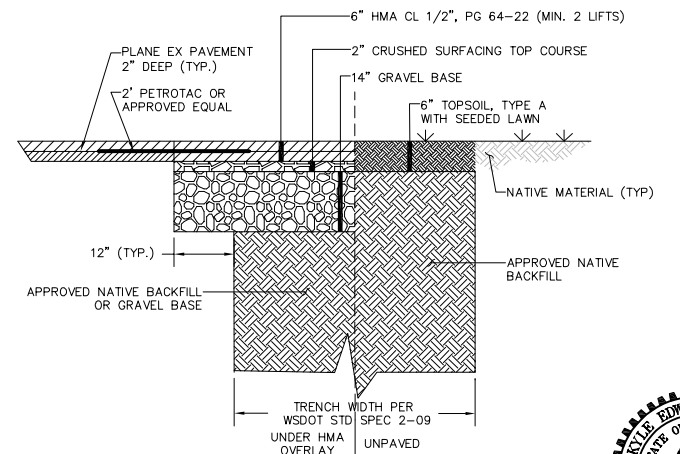
WATERMETER LOCATION DETAIL

NTS



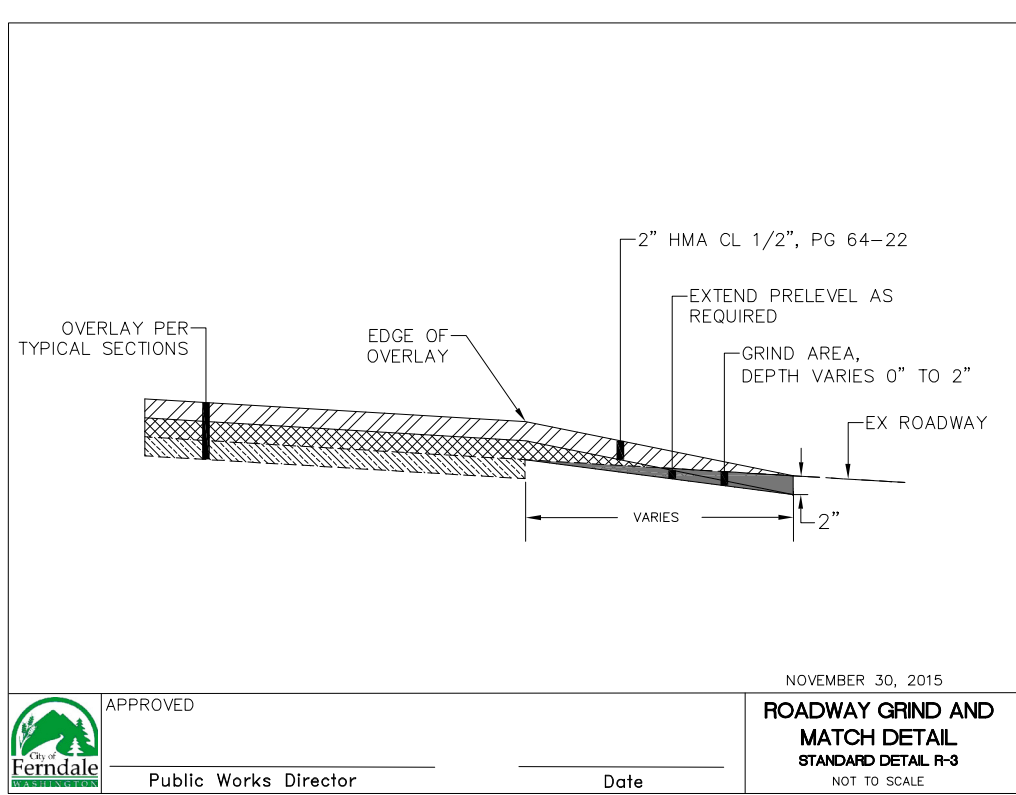
PAVEMENT REMOVAL AND RECONSTRUCTION SECTION

NTS



UTILITY TRENCH DETAIL

NTS



APPROVED _____ NOVEMBER 30, 2015 ROADWAY GRIND AND MATCH DETAIL STANDARD DETAIL R-3 NOT TO SCALE
Public Works Director Date

BID SET

DESIGNED BY
KEC
DRAWN BY
PJC
CHECKED BY
LP

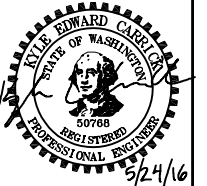
R&E Reichhardt & Ebe
ENGINEERING INC
P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687
813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

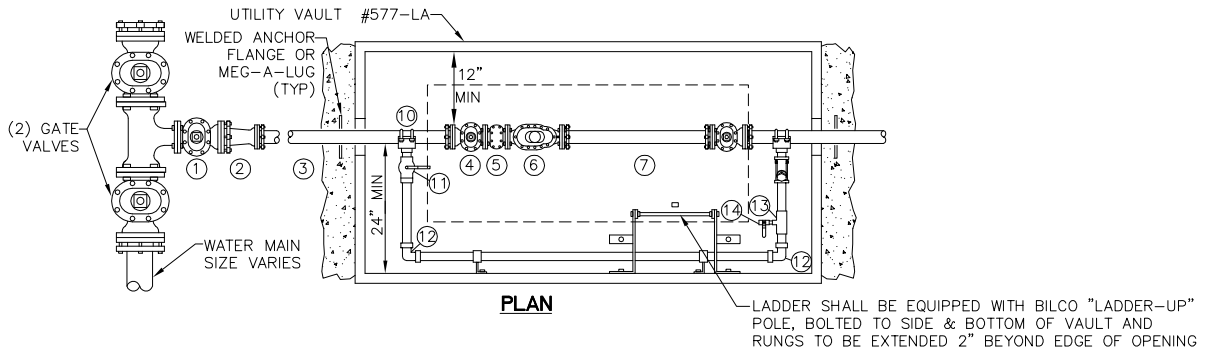
2	5-24-16	ADDENDUM-2 WATER SERVICE DETAIL	LP
NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN STREET
FERNDAL, WA 98248

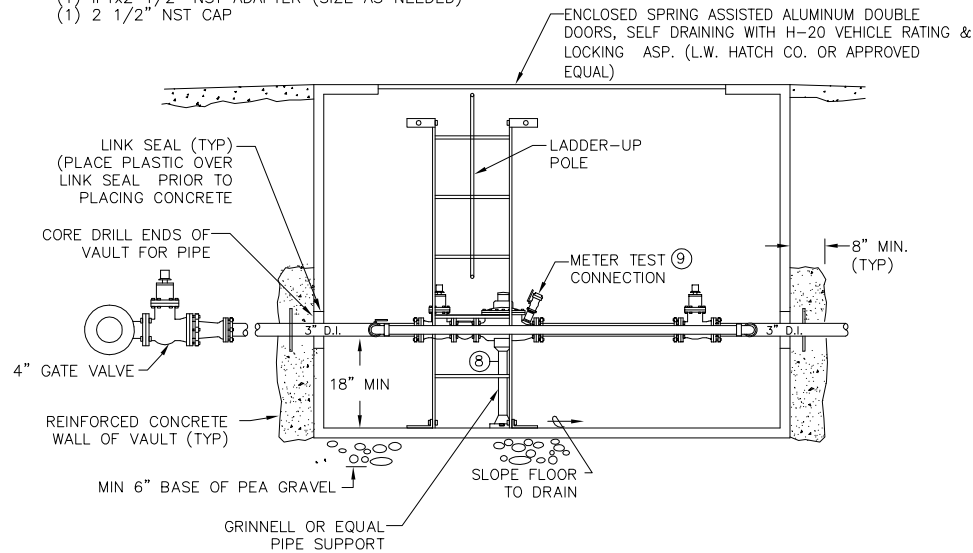
WASHINGTON STREET
VISTA DR. TO THIRD AVENUE PROJECT
DETAILS

DWG 15036 PROBASE	DATE 5/10/2016
JOB# 15036	SCALE H: NA V: NA
SHEET 15 of 17	





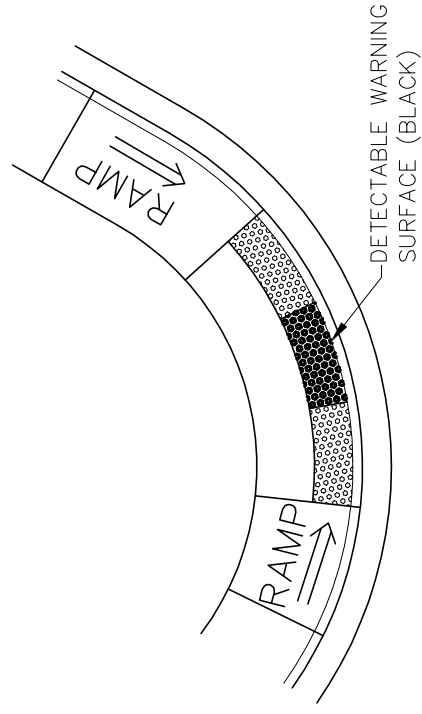
- | | |
|--|---|
| ① (1) 4" GATE VALVE (FL) | 2" BY-PASS ASSEMBLY: |
| ② (1) 4"x3" REDUCER (FJxRJ) (ONLY W/ 3" METER) | ⑩ (2) 2" SADDLES W/ STAINLESS STL DOUBLE STRAPS |
| ③ 3" OR 4" D.I. PIPE, LENGTH AS REQUIRED | ⑪ (2) 2" BALL VALVE (IP) |
| ④ (2) 3" OR 4" GATE VALVES (FLxRJ), WHEEL OPERATED | ⑫ (2) 2" 90° BENDS (IP) |
| ⑤ (1) 3" OR 4" BRONZE BASKET STRAINER (FL) | ⑬ (1) 2" X 3/4" TEE (IP) |
| ⑥ (1) 3" OR 4" SENSUS TOUCH READ METER (FL) WITH TEST NIPPLE & VALVE | ⑭ (1) 3/4" BALL VALVE (IP) |
| ⑦ (1) 3" OR 4" UNI-FLANGE SPOOL, LENGTH AS REQ'D | 2" PIPE (LENGTH AS NEEDED) |
| ⑧ (2) ADJUSTABLE PIPE SUPPORTS | SECURE PIPE TO VAULT WALL |
| ⑨ 2-1/2" NST (FIRE HOSE) METER TEST CONNECTION: | ALL 2" PIPE & FITTINGS SHALL BE BRASS. |
| (1) BRASS NIPPLE (LENGTH AND SIZE AS NEEDED) | |
| (1) BRASS GATE VALVE (SIZED AS NEEDED) | |
| (1) IPTx2, 1/2" NST ADAPTER (SIZE AS NEEDED) | |
| (1) 2 1/2" NST CAP | |



METER SUPPLIED BY CITY OF FERNDALE

CITY OF FERNDALE 3" METER INSTALLATION

NTS



SIDEWALK RAMP TYPE PARALLEL A (MODIFIED)

NTS