

16-0542

Sonja Birr

From: Greg Minikel
Sent: Tuesday, May 31, 2016 4:10 PM
To: Dan Koski; Sonja Birr
Subject: FW: Fessler Dr. - Watermain Extension
Attachments: Water Petition - Plan E.pdf

Dan,

Do you want to sign this petition or should we be running this through the PI Committee and the Council and have the Mayor and Clerk sign the petition??? Let me know. Thanks.

From: Rob Michaelson
Sent: Monday, May 23, 2016 9:54 AM
To: Greg Minikel
Cc: Dan Koski; Mike Zimmer; Steve Herzog; Pete Dollhopf
Subject: RE: Fessler Dr. - Watermain Extension

Hi Greg-

It seems the watermain on Fessler Drive is moving forward, but I don't think we've finalized how it is being installed. Has the City agreed to install the watermain and turn it over to MPU? If so, please have the attached Plan E watermain petition signed and returned to us, thanks.

If not, we need to meet ASAP.

Thanks, feel free to contact me with any questions or concerns.

Rob Michaelson P.E. | Water Systems Manager
Manitowoc Public Utilities
(920) 686-4354 | Direct Line

1303 S. 8th Street | P.O. Box 1090 | Manitowoc, WI 54221
(920) 686-4376 fax | www.mpu.org

From: Rob Michaelson
Sent: Monday, February 01, 2016 9:47 AM
To: Greg Minikel
Cc: Dan Koski; Mike Zimmer; Steve Herzog; Pete Dollhopf
Subject: RE: Fessler Dr. - Watermain Extension

Hi Greg-

You noted that the City is extending Fessler Drive to the east about 500 feet. MPU would likely want to extend the watermain before paving, using the Plan D watermain extension rule (see attached).

MPU will be responsible for all costs to install the watermain. Abutting property owners will be assessed \$27/ft/side (\$54/ft total) for the watermain by MPU.

Are you installing any other utilities? If possible, the construction of the watermain would be best if it was bid with your work (similar to how we do Huron Street or other joint projects).

MPU could also install the watermain before or concurrent with your work, but we would need:

- Plan set of the area, to develop our plan/profile
- Your schedule...we would need to design, bid, and construct before your work

We could also consider using the Plan E, where the City is the developer...the City pays for everything, turns it over to MPU. No assessment.

Thanks, let me know your thoughts.

Rob Michaelson P.E. | Water Systems Manager
Manitowoc Public Utilities
(920) 686-4354 | Direct Line

1303 S. 8th Street | P.O. Box 1090 | Manitowoc, WI 54221
(920) 686-4376 fax | www.mpu.org

From: Greg Minikel
Sent: Thursday, January 28, 2016 2:07 PM
To: Rob Michaelson
Cc: Dan Koski; Mike Zimmer; Steve Herzog
Subject: Fessler Dr. - Watermain Extension

Hi Rob,

You and I talked about this in the past month or so. You told me that this could be installed under one of your Plans due to the paving. You stated that this would be at the City's cost as we are basically the developer.

My question to you is who would bid this watermain??

Would MPU bid it, install it and then bill the City for the work or should the 500 ft. plus or minus of watermain extension be included in our paving bid?? Let me know. Thanks.



1303 South 8th Street P.O. Box 1090 Manitowoc, WI 54221-1090 920-683-4600 FAX 920-686-4348 www.mpu.org

Dear Petitioner:

Attached is a "Water Petition" for installation of the watermain in a regularly platted real estate development or subdivision in the city of Manitowoc. Your signature on this document indicates that you have agreed to pay the total cost of the construction including payment for developing drawings by a professional engineer; MPU's cost for reviewing and approving the drawings, record keeping and administrative costs; an on-site inspector during construction; and tapping watermain at MPU's actual cost.

Furthermore, subdivisions or plats abutting public road right-of-way shall be subject to watermain assessments for future watermain installed in said road right-of-way.

The construction of the watermain can begin only after the Petition is approved by MPU and the drawings are approved by MPU and Wisconsin Department of Natural Resources. The contractor installing the watermain is subject to approval by MPU.

Before making a tap on the watermain to install a water service, the developer is required to have an approved tapping permit. Only MPU employees are allowed to complete a tap on the watermain.

MPU will be happy to assist you in any way to make your development as convenient and trouble free as possible.

If you have more specific questions concerning this petition, please call me at (920) 686-4354.

Sincerely,

A handwritten signature in cursive script, appearing to read 'R. Michaelson'.

Robert Michaelson, P.E.
Water System Manager

Received By:	
Developer	Date

Return to MPU

No. C - _____

WATER PETITION

PLAN E

TO THE MANITOWOC PUBLIC UTILITIES OF THE CITY OF MANITOWOC, WISCONSIN

Petitioner completes these areas

The undersigned owners of the subdivision/plat called _____
with the street names of _____,
_____, _____, and abutting the property on _____,
petition to install the watermain according to the Manitowoc Public Utilities established rules and regulations.

Further, that we obligate ourselves to the payments of all construction cost arising from this Petition according to the rules and regulations of the Manitowoc Public Utilities effective January 1, 2012 per PSC Amendment Number 65.

Dated _____

<u>NAME/SIGNATURE</u>	<u>ADDRESS</u>	<u>LOT</u>	<u>BLOCK</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

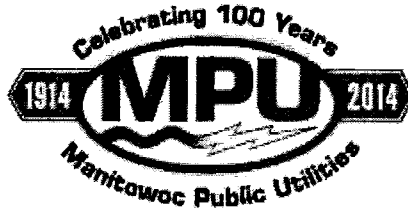
Work Performed By (Contractor) _____

Construction Beginning Date _____
(MPU must be notified at least two weeks before start of construction)

Construction Completion Date _____

Total Estimated Cost _____
(Petitioner agrees to provide detailed actual construction cost to MPU following completion of the project and before water service is provided)

MPU only	Date Petition Received	_____
	Petition Recommended	_____ (Water System Manager) (Date)
	Petition Approved	_____ (General Manager) (Date)



1303 South 8th Street P.O. Box 1090 Manitowoc, WI 54221-1090 920-683-4600 FAX 920-686-4348 www.mpu.org

Dear Petitioner:

Attached is a "Water Petition" for installation of the watermain in a regularly platted real estate development or subdivision in the city of Manitowoc. Your signature on this document indicates that you have agreed to pay the total cost of the construction including payment for developing drawings by a professional engineer; MPU's cost for reviewing and approving the drawings, record keeping and administrative costs; an on-site inspector during construction; and tapping watermain at MPU's actual cost.

Furthermore, subdivisions or plats abutting public road right-of-way shall be subject to watermain assessments for future watermain installed in said road right-of-way.

The construction of the watermain can begin only after the Petition is approved by MPU and the drawings are approved by MPU and Wisconsin Department of Natural Resources. The contractor installing the watermain is subject to approval by MPU.

Before making a tap on the watermain to install a water service, the developer is required to have an approved tapping permit. Only MPU employees are allowed to complete a tap on the watermain.

MPU will be happy to assist you in any way to make your development as convenient and trouble free as possible.

If you have more specific questions concerning this petition, please call me at (920) 686-4354.

Sincerely,

Robert Michaelson, P.E.
Water System Manager

Received By:	
Developer	Date

Return to MPU

No. C - _____

WATER PETITION

PLAN E

TO THE MANITOWOC PUBLIC UTILITIES OF THE CITY OF MANITOWOC, WISCONSIN

Petitioner completes these areas

The undersigned owners of the subdivision/plat called _____
with the street names of _____,
_____, _____, and abutting the property on
_____,
petition to install the watermain according to the Manitowoc Public Utilities established rules and regulations.

Further, that we obligate ourselves to the payments of all construction cost arising from this Petition according to the rules and regulations of the Manitowoc Public Utilities effective January 1, 2012 per PSC Amendment Number 65.

Dated _____

<u>NAME/SIGNATURE</u>	<u>ADDRESS</u>	<u>LOT</u>	<u>BLOCK</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Work Performed By (Contractor) _____

Construction Beginning Date _____
(MPU must be notified at least two weeks before start of construction)

Construction Completion Date _____

Total Estimated Cost _____
(Petitioner agrees to provide detailed actual construction cost to MPU following completion of the project and before water service is provided)

MPU only	Date Petition Received	_____	
	Petition Recommended	_____	_____
		(Water System Manager)	(Date)
	Petition Approved	_____	_____
		(General Manager)	(Date)

#WS-16-1 2016 CONCRETE PAVING (#4331509)

DUE DATE: MARCH 23, 2016

VINTON CONSTRUCTION: \$1,844,533.34
 LALONDE CONTRACTORS INC: \$2,659,716.95

Item	Item Description	UoFM	Qty	Vinton Construction Company		LaLonde Contractors, Inc.	
				Unit Price	Extension	Unit Price	Extension
<i>Dewey Street Concrete Reconstruction</i>							
1	Mobilization	LS	1	\$25,000.00	\$25,000.00	\$30,900.00	\$30,900.00
2	Traffic Control	LS	1	\$21,400.00	\$21,400.00	\$14,400.00	\$14,400.00
3	Traffic Control Detour	LS	1	\$4,500.00	\$4,500.00	\$1,500.00	\$1,500.00
4	Type "C" Inlet Protection	EA	27	\$50.00	\$1,350.00	\$45.00	\$1,215.00
5	Type "D" Inlet Protection	EA	8	\$125.00	\$1,000.00	\$75.00	\$600.00
6	Unclassified Excavation (Incl. Pavement, Curb, Concrete Islands Removals)	CY	7632	\$17.93	\$136,841.76	\$19.00	\$145,008.00
7	9" Concrete Pavement w/Integral Curb (Doweled)	SY	26164	\$34.99	\$915,478.36	\$39.00	\$1,020,396.00
8	9" Concrete Pavement HES 8-bag w/Integral Curb (Doweled) Intersection Tie-ins	SY	382	\$37.99	\$14,512.18	\$60.00	\$22,920.00
9	1-1/4" Crushed Aggregate Base Course	TON	2055	\$11.45	\$23,529.75	\$15.00	\$30,825.00
10	Fine Grading	SY	28660	\$1.51	\$43,276.60	\$1.00	\$28,660.00
11	Concrete Pavement Gaps	EA	9	\$1,000.00	\$9,000.00	\$500.00	\$4,500.00
12	1/2" Epoxy Coated Tie Bars (Includes Drilling) Driveways	EA	150	\$5.00	\$750.00	\$10.00	\$1,500.00
13	3/4" Epoxy Coated Tie Bars (Includes Drilling)	EA	351	\$8.00	\$2,808.00	\$10.00	\$3,510.00
14	1-1/4" Epoxy Coated Dowel Bars (Includes Drilling)	EA	48	\$14.00	\$672.00	\$10.00	\$480.00
15	Undistributed EBS	CY	500	\$14.95	\$7,475.00	\$50.00	\$25,000.00
16	Breaker Run (6" and down)	TON	750	\$11.45	\$8,587.50	\$15.00	\$11,250.00
17	Geotextile Fabric Type HR	SY	300	\$3.00	\$900.00	\$3.00	\$900.00
18	Concrete Median Sloped Nose	SF	108	\$8.50	\$918.00	\$10.00	\$1,080.00
19	6" Concrete Sidewalk (Removed & Replaced)	SF	7273	\$5.38	\$39,128.74	\$5.50	\$40,001.50
20	8" Concrete Sidewalk HES 8-bag (Removed & Replaced)	SF	210	\$6.08	\$1,276.80	\$6.00	\$1,260.00
21	6" Concrete Driveway HES 8-bag (Removed & Replaced)	SF	1274	\$5.78	\$7,363.72	\$6.00	\$7,644.00
22	8" Concrete Driveway HES 8-bag (Removed & Replaced)	SF	3530	\$6.08	\$21,462.40	\$6.00	\$21,180.00
23	8" Concrete Driveway w/ Integral Curb HES 8-bag (Removed & Replaced) WG&R Driveway	SF	706	\$6.50	\$4,589.00	\$6.00	\$4,236.00
24	3" H.M.A. Pavement, Type E-1 (Removed & Replaced)	SY	12	\$93.60	\$1,123.20	\$98.60	\$1,183.20
25	3" H.M.A. Driveway, Type E-1 (Removed & Replaced)	SY	47	\$59.40	\$2,791.80	\$64.40	\$3,026.80
26	3" Asphalt Surface Temporary, Type E-1	TON	23	\$169.10	\$3,889.30	\$169.10	\$3,889.30
27	Tack Coat	GAL	5	\$10.00	\$50.00	\$10.00	\$50.00
28	Curb Ramp Detectable Warning Field (Yellow)	SF	104	\$30.00	\$3,120.00	\$30.00	\$3,120.00
29	Adjusting Water Manhole Covers	EA	1	\$300.00	\$300.00	\$500.00	\$500.00
30	Adjusting 5" Water Valve Box	EA	6	\$150.00	\$900.00	\$100.00	\$600.00
31	Adjusting 5" Gas Valve Box	EA	1	\$150.00	\$150.00	\$1,000.00	\$1,000.00
32	Sawing Concrete Sidewalk & Driveway	LF	449	\$3.00	\$1,347.00	\$1.95	\$875.55
33	Sawing Asphalt Pavement	LF	57	\$3.00	\$171.00	\$1.25	\$71.25
34	Sawing Concrete Pavement, Full Depth	LF	5181	\$1.00	\$5,181.00	\$1.95	\$10,102.95
35	3" Pulverized Topsoil	SY	3404	\$8.00	\$27,232.00	\$3.60	\$12,254.40
36	Seed (Mixture No. 40), Fertilizer & Water	SY	3404	\$1.35	\$4,595.40	\$2.80	\$9,531.20
37	Erosion Mat, Urban Class 1, Type A	SY	3404	\$1.80	\$6,127.20	\$1.25	\$4,255.00
38	Landmark Reference Monuments	EA	1	\$500.00	\$500.00	\$1,000.00	\$1,000.00
39	Utility Line Opening	EA	4	\$570.00	\$2,280.00	\$500.00	\$2,000.00
40	Temp. Pav't. Marking Removable Tape (4")	LF	300	\$1.00	\$300.00	\$6.00	\$1,800.00
41	Removing Pavement Marking, Crosswalk Bar (12")	LF	6	\$6.00	\$36.00	\$5.70	\$34.20
42	Removing Pavement Marking, 6" Crosswalk	LF	10	\$2.00	\$20.00	\$2.90	\$29.00
43	Pavement Marking, Epoxy, 4-Inch	LF	10935	\$0.45	\$4,920.75	\$0.70	\$7,654.50
44	Pavement Marking, Channelizing, Epoxy, 8-Inch	LF	404	\$0.75	\$303.00	\$1.35	\$545.40
45	Pavement Marking, Stop Line, Epoxy, 18-Inch	LF	134	\$10.50	\$1,407.00	\$10.30	\$1,380.20
46	Pavement Marking, Crosswalk, Epoxy, 6-Inch	LF	1736	\$7.50	\$13,020.00	\$8.55	\$14,842.80
47	Pavement Marking, Crosswalk, Epoxy, 12-Inch, Alternate (Form 905)	LF	996	\$9.25	\$9,213.00	\$8.75	\$8,715.00
48	Pavement Marking, Diagonal, Epoxy, 8-Inch	LF	833	\$8.75	\$7,288.75	\$6.15	\$5,122.95
49	Pavement Marking, Arrows, Epoxy, Type 2	EA	6	\$225.00	\$1,350.00	\$295.00	\$1,770.00
50	Pavement Marking, Words, Epoxy	EA	3	\$275.00	\$825.00	\$335.00	\$1,005.00
51	Pavement Marking, Curb, Epoxy	LF	60	\$9.50	\$570.00	\$7.80	\$468.00
52	Pavement Marking, Island Nose, Epoxy	EA	6	\$135.00	\$810.00	\$150.00	\$900.00
				<i>Dewey Street Concrete Reconstruction</i>		<i>\$1,516,692.20</i>	
						<i>\$1,391,641.21</i>	

Dewey Street Storm Sewer							
53	Removing Existing Storm Sewer Pipe	LF	259	\$5.00	\$1,295.00	\$30.00	\$7,770.00
54	Removing Inlets	EA	13	\$255.00	\$3,315.00	\$1,000.00	\$13,000.00
55	Reconstruct Inlet (2' X 3')	EA	3	\$750.00	\$2,250.00	\$2,300.00	\$6,900.00
56	Reconstruct Storm Manhole or Inlet Manhole	EA	2	\$985.00	\$1,970.00	\$3,000.00	\$6,000.00
57	Salvage and Adjust Storm Manhole Covers	EA	3	\$300.00	\$900.00	\$1,500.00	\$4,500.00
58	Furnish & Install 6" PVC Underdrain Pipe W/Sock (SDR-35)	LF	4972	\$15.20	\$75,574.40	\$30.00	\$149,160.00
59	Furnish & Install 12" PVC Pipe (SDR-35), Storm	LF	8	\$59.70	\$477.60	\$100.00	\$800.00
60	Stone Trench (Form #428A)	LF	419	\$18.80	\$7,877.20	\$1,000.00	\$419,000.00
61	Furnish & Install Type "J" Casting (R-1550-A), Storm	EA	14	\$584.00	\$8,176.00	\$1,000.00	\$14,000.00
62	Furnish & Install Type "H" Casting (R-3067-R) Diagonal, Storm	EA	31	\$700.00	\$21,700.00	\$1,000.00	\$31,000.00
63	Furnish & Install Type "H" Casting (R-3015) w/Driveway Curb Plate, Storm (Lee's Color Studio)	EA	1	\$670.00	\$670.00	\$1,000.00	\$1,000.00
64	Furnish & Install Type 3 Inlet (2' X 3')	EA	12	\$1,483.00	\$17,796.00	\$500.00	\$6,000.00
65	Furnish & Install Trench Backfill	TON	69	\$11.10	\$765.90	\$30.00	\$2,070.00
				\$142,767.10		\$661,200.00	
Dewey Street Sanitary Sewer							
66	Salvage & Adjust Sanitary Manhole Covers	EA	4	\$350.00	\$1,400.00	\$1,500.00	\$6,000.00
67	Furnish & Install Type "J" Casting (R-1550-A) with "T" Gasket	EA	5	\$596.00	\$2,980.00	\$1,600.00	\$8,000.00
				\$4,380.00		\$14,000.00	
Dewey Street Traffic Signalization							
68	Nonmetallic Conduit, Schedule 40, 1-Inch (WisDOT Item 652.0210)	LF	519	\$4.00	\$2,076.00	\$4.09	\$2,122.71
69	Loop Detector Conduit (WisDOT Item 652.0800)	LF	762	\$4.00	\$3,048.00	\$4.28	\$3,261.36
71	Nonmetallic Conduit, Schedule 40, 3-Inch (WisDOT Item 652.0235)	LF	10	\$6.00	\$60.00	\$22.00	\$220.00
72	Pull Boxes, Steel, 12x24-Inch (WisDOT Item 653.0105)	EA	6	\$450.00	\$2,700.00	\$488.00	\$2,928.00
73	Pull Boxes, Steel, 24x36-Inch (WisDOT Item 653.0135)	EA	4	\$650.00	\$2,600.00	\$735.00	\$2,940.00
74	Pull Boxes, Steel, 24x42-Inch (WisDOT Item 653.0140)	EA	2	\$650.00	\$1,300.00	\$740.00	\$1,480.00
75	Cable Traffic Signal, 5-14 AWG (WisDOT Item 655.0230)	LF	238	\$1.00	\$238.00	\$1.20	\$285.60
76	Cable Traffic Signal, 12-14 AWG (WisDOT Item 655.0260)	LF	1619	\$2.50	\$4,047.50	\$1.86	\$3,011.34
77	Electrical Wire, Traffic Signals, 10 AWG (WisDOT Item 655.0515)	LF	1134	\$0.60	\$680.40	\$0.56	\$635.04
78	Loop Detector Lead In Cable (WisDOT Item 655.0700)	LF	2388	\$1.20	\$2,865.60	\$0.98	\$2,340.24
79	Loop Detector Wire (WisDOT 655.0800)	LF	2368	\$0.50	\$1,184.00	\$0.42	\$994.56
80	Removing Pull Boxes (WisDOT 653.0905)	EA	6	\$50.00	\$300.00	\$62.00	\$372.00
81	Concrete Bases Type 1 (WisDOT 654.0101)	EA	2	\$625.00	\$1,250.00	\$475.00	\$950.00
82	Double Sided RRFB Solar Pole Arrangement (Complete)	EA	2	\$4,925.00	\$9,850.00	\$5,715.00	\$11,430.00
				\$32,199.50		\$32,970.85	
North 6th Street Concrete Reconstruction							
83	Mobilization	LS	1	\$7,000.00	\$7,000.00	\$10,450.00	\$10,450.00
84	Traffic Control	LS	1	\$6,700.00	\$6,700.00	\$1,700.00	\$1,700.00
85	Inlet Protection, Type C	EA	2	\$50.00	\$100.00	\$45.00	\$90.00
86	Unclassified Excavation (Incl. Pavement, Curb, Driveway Approaches & Service Walks)	CY	1143	\$15.64	\$17,876.52	\$29.00	\$33,147.00
87	8" Concrete Pavement w/Integral Curb (Doweled)	SY	1513	\$36.64	\$55,436.32	\$45.00	\$68,085.00
88	8" Crushed Aggregate Base Course (1-1/4")	SY	1677	\$4.16	\$6,976.32	\$15.00	\$25,155.00
89	8" Breaker Run Stone Material (6" & Down)	SY	1677	\$4.16	\$6,976.32	\$15.00	\$25,155.00
90	Furnish & Install Geogrid	SY	1677	\$2.00	\$3,354.00	\$3.00	\$5,031.00
91	3/4" Epoxy Coated Tie Bars (Includes Drilling)	EA	28	\$8.00	\$224.00	\$10.00	\$280.00
92	Remove & Replace 6" Concrete Curb (Type D)	LF	15	\$25.00	\$375.00	\$30.00	\$450.00
93	3" H.M.A. Driveway, Type E-1 (Remove and Replace)	SY	17	\$91.40	\$1,553.80	\$101.40	\$1,723.80
94	4" Concrete Sidewalk	SF	60	\$5.13	\$307.80	\$10.00	\$600.00
95	6" Concrete Sidewalk & Driveway	SF	109	\$5.38	\$586.42	\$10.00	\$1,090.00
96	8" Concrete Sidewalk & Driveway	SF	570	\$5.68	\$3,237.60	\$10.00	\$5,700.00
97	6" Concrete Sidewalk (Removed & Replaced)	SF	240	\$5.38	\$1,291.20	\$10.00	\$2,400.00
98	Curb Ramp Detectable Warning Field (Yellow)	SF	16	\$30.00	\$480.00	\$30.00	\$480.00
99	Sawing Concrete Sidewalk & Driveway	LF	15	\$5.00	\$75.00	\$1.95	\$29.25
100	Sawing Concrete or Asphalt Pavement, Full Depth	LF	104	\$3.00	\$312.00	\$1.25	\$130.00
101	3" Pulverized Topsoil	SY	397	\$9.00	\$3,573.00	\$4.75	\$1,885.75
102	Seed (Mixture No. 40), Fertilizer & Water	SY	397	\$1.35	\$535.95	\$3.00	\$1,191.00
103	Erosion Mat, Urban Class 1, Type A	SY	397	\$1.80	\$714.60	\$1.25	\$496.25
				\$117,685.85		\$185,269.05	

North 6th Street Storm Sewer						
104 Removing Storm Manhole	EA	2	\$400.00	\$800.00	\$500.00	\$1,000.00
105 Removing Storm Sewer	LF	35	\$10.00	\$350.00	\$30.00	\$1,050.00
106 Furnish & Install 6" Inch PVC Underdrain Pipe W/Sock (SDR-35)	LF	94	\$23.40	\$2,199.60	\$30.00	\$2,820.00
107 Furnish & Install 15" PVC Pipe (SDR-35), Storm	LF	35	\$47.65	\$1,667.75	\$60.00	\$2,100.00
108 Furnish & Install 10" PVC Pipe (SDR-35), Storm	LF	10	\$41.25	\$412.50	\$60.00	\$600.00
109 Furnish & Install Type 4 Storm Manhole	VF	7.46	\$503.00	\$3,752.38	\$250.00	\$1,865.00
110 Furnish & Install Type "H" Casting (R-3067-R Diagonal), Storm	EA	2	\$496.00	\$992.00	\$1,000.00	\$2,000.00
111 Furnish & Install Trench Backfill	TON	3	\$11.10	\$33.30	\$30.00	\$90.00

North 6th Street Storm Sewer \$10,207.53 \$11,525.00

Fessler Drive Concrete Paving						
112 Mobilization	LS	1	\$7,000.00	\$7,000.00	\$10,700.00	\$10,700.00
113 Traffic Control	LS	1	\$7,100.00	\$7,100.00	\$2,100.00	\$2,100.00
114 Inlet Protection, Type C or B	EA	3	\$50.00	\$150.00	\$45.00	\$135.00
115 Ditch Checks (Hay Bale Type)	EA	1	\$150.00	\$150.00	\$78.00	\$78.00
116 Unclassified Excavation	CY	620	\$13.29	\$8,239.80	\$30.00	\$18,600.00
117 8" Concrete Pavement w/Integral Curb	SY	931	\$31.91	\$29,708.21	\$45.00	\$41,895.00
118 8" Crushed Aggregate Base Course (1-1/4")	SY	950	\$4.16	\$3,952.00	\$15.00	\$14,250.00
119 Fine Grading	SY	1032	\$1.50	\$1,548.00	\$1.00	\$1,032.00
120 3/4" Epoxy Coated Tie Bars (Includes Drilling)	EA	15	\$8.00	\$120.00	\$10.00	\$150.00
121 3" H.M.A. Pavement, Type E-1 (cul-de-sac)	SY	930	\$17.90	\$16,647.00	\$17.90	\$16,647.00
122 6" Asphalt Curb	LF	10	\$34.65	\$346.50	\$34.65	\$346.50
123 Remove Asphalt Driveway	SY	53	\$4.00	\$212.00	\$10.00	\$530.00
124 New 3" H.M.A. Driveway, Type E-1	SY	35	\$39.70	\$1,389.50	\$39.70	\$1,389.50
125 8" Concrete Sidewalk & Driveway	SF	683	\$5.83	\$3,981.89	\$6.00	\$4,098.00
126 Sawing Asphalt Pavement	LF	60	\$4.00	\$240.00	\$1.26	\$75.60
127 Terrace Prep	SY	326	\$3.00	\$978.00	\$10.00	\$3,260.00
128 3" Salvaged Topsoil	SY	1044	\$4.90	\$5,115.60	\$4.00	\$4,176.00
129 Seed (Mixture No. 40), Fertilizer & Water	SY	1044	\$1.35	\$1,409.40	\$3.00	\$3,132.00
130 Erosion Mat, Urban Class 1, Type A	SY	302	\$1.80	\$543.60	\$2.00	\$604.00
131 Hydo Mulch	SY	742	\$0.70	\$519.40	\$1.25	\$927.50
132 Relocate Stone Barrier	LS	1	\$1,000.00	\$1,000.00	\$2,500.00	\$2,500.00

Fessler Drive Concrete Paving \$90,350.90 \$126,626.10

Fessler Drive Sanitary Sewer						
133 Furnish & Install 8" PVC Pipe (SDR-35)	LF	45	\$46.90	\$2,110.50	\$100.00	\$4,500.00
134 Furnish & Install 6" PVC Inside Drop (SDR-35)	VF	13.65	\$115.00	\$1,569.75	\$75.00	\$1,023.75
135 Adjusting Sanitary Manhole Cover	EA	1	\$350.00	\$350.00	\$1,000.00	\$1,000.00
136 Furnish & Install Trench Backfill	TON	27	\$11.10	\$299.70	\$30.00	\$810.00

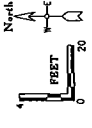
Fessler Drive Sanitary Sewer \$4,329.95 \$7,333.75

Fessler Drive Storm Sewer						
137 Furnish & Install 12" PVC Pipe (SDR-35), Storm Sewer	LF	250	\$43.50	\$10,875.00	\$75.00	\$18,750.00
138 Furnish & Install Standard Manhole, Type 1	VF	6.4	\$293.00	\$1,875.20	\$250.00	\$1,600.00
139 Furnish & Install Type 1 Inlet	EA	1	\$1,135.00	\$1,135.00	\$1,000.00	\$1,000.00
140 Furnish & Install Type "J" Casting (R-1550-A), Storm	EA	1	\$334.00	\$334.00	\$1,000.00	\$1,000.00
141 Furnish & Install Type "J" Casting (R-2050), Storm	EA	1	\$354.00	\$354.00	\$1,000.00	\$1,000.00
142 Adjusting Storm Manhole Cover	EA	1	\$300.00	\$300.00	\$1,000.00	\$1,000.00
143 Furnish & Install Trench Backfill	TON	234	\$11.10	\$2,597.40	\$30.00	\$7,020.00
144 Televis Storm Pipe	LF	250	\$3.00	\$750.00	\$20.00	\$5,000.00

Fessler Drive Storm Sewer \$18,220.60 \$36,370.00

Fessler Drive Watermain						
145 Furnish & Install 12" PVC Watermain (C-900)	LF	312	\$49.90	\$15,568.80	\$100.00	\$31,200.00
146 Furnish & Install 12" Valve w/ valve box	EA	1	\$2,695.00	\$2,695.00	\$3,000.00	\$3,000.00
147 Furnish & Install 6" PVC Water Service (C-900)	LF	62	\$42.70	\$2,647.40	\$90.00	\$5,580.00
148 Furnish & Install 6" Valve w/ valve box	EA	1	\$1,090.00	\$1,090.00	\$3,000.00	\$3,000.00
149 Tie Into Existing Watermain	EA	1	\$2,626.00	\$2,626.00	\$7,500.00	\$7,500.00
150 Furnish & Install Fire Hydrant w/6" Valve on Hydrant Lead Includes 12" X 6" Reducer	EA	1	\$4,627.00	\$4,627.00	\$8,000.00	\$8,000.00
151 Furnish & Install Trench Backfill	TON	315	\$11.10	\$3,496.50	\$30.00	\$9,450.00

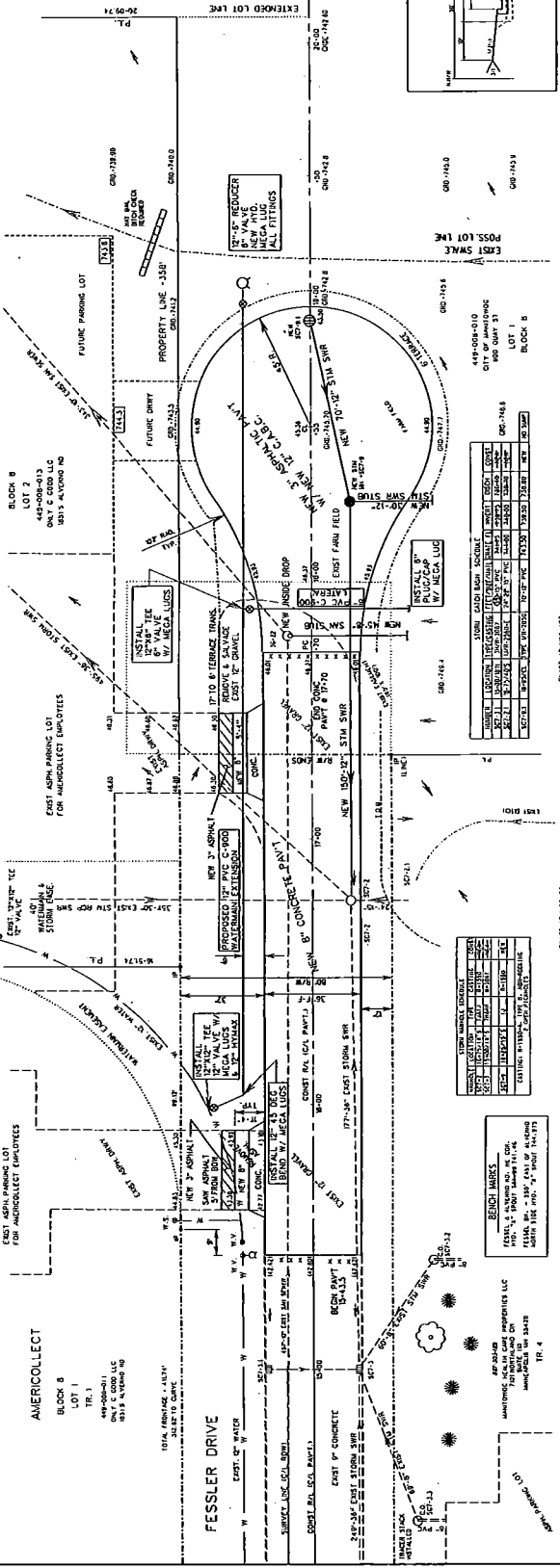
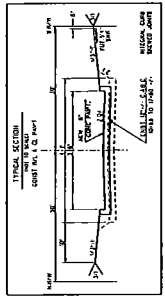
Fessler Drive Watermain \$32,750.70 \$67,730.00



449-008-010
CITY OF MADISON
100 QUART 21
LOT 1
BLOCK B

2015 PAVING
TECHNICAL SPECIFICATIONS
GRADE PREPARATION
PART 1 & 2

2015 PAVING
CITY 620 C.T.
FULL 127 C.T.



STATION	DESCRIPTION	DATE	BY	CHECKED	DATE	BY
746	EXIST. CL. PROFILE	10/15/13	...	...	...	...
746	PROPOSED CL. PROFILE	10/15/13	...	...	...	...
742	EXIST. PROFILE	10/15/13	...	...	...	...
738	PROPOSED CL. PROFILE	10/15/13	...	...	...	...
734	EXIST. PROFILE	10/15/13	...	...	...	...
730	PROPOSED CL. PROFILE	10/15/13	...	...	...	...
726	EXIST. PROFILE	10/15/13	...	...	...	...
722	PROPOSED CL. PROFILE	10/15/13	...	...	...	...

FESSLER DRIVE - S. AVERNO RD. TO EAST 800
16-02-01

DATE: 10/15/13
DESIGNED BY: ...
APPROVED BY: ...