



Department of Public Works
Infrastructure Services Division

Ghassan Korban
Commissioner of Public Works

Preston D. Cole
Director of Operations

Jeffrey S. Polenske
City Engineer

September 10, 2014

OFFICIAL NOTICE NO. 105

Addendum No. 1

NOTICE TO CONTRACTORS intending to bid on the above noted Official Notice. The bidder shall acknowledge receipt of this addendum on the acknowledgement page (paper bid)/Section (Bid Express). Please replace the Bid Item Pages and the Project Breakdown with the Enclosed.

This Addendum # 1 is to replace the existing special provisions with the attached special provisions, to change the completion date to November 21, 2014, and to add the following bid items:

Bid Item 83311 Pavement Marking 4" Yellow Cold Plastic (furnish & Install)	56.0 LF
Bid Item 83324 Pavement marking, Crosswalk 12" White, Cold Plastic (F & I)	220 LF
Bid Item 83355 Pavement Marking, Crosswalk, Epoxy, 12 Inch White	174 LF
Bid Item 83361, Pavement Marking Channelizing, Epoxy, 8 Inch	160 LF
Bid Item 99742 CUC Manhole Adjustment Type II	1.00 each

Very truly yours,



Lynn Des Jardins

Construction Supervisor

**PROJECT BREAKDOWN
OFFICIAL NOTICE # 105-1**

09/10/2014
11:28:26 AM

PROJECT TITLES

PROJECT 811-0158 PROJECT/GRANT ST211140158 ESTIMATE 29435

W. Clybourn St. - a point east of N. 16th St. to N. 16th St. (median)

PROJECT 811-0150 PROJECT/GRANT ST211140150 ESTIMATE 29436

E. Erie St. at E. Menomonee St. (Intersection modification) and E. Menomonee St. - N.
Broadway to E. Erie St.

PROJECT 811-0156 PROJECT/GRANT ST211140156 ESTIMATE 29438

N. Water St. at E. Pearson St. (Marsupial bridge area access)

**PROJECT BREAKDOWN
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Project Number		811-0158	811-0150	811-0156
Plans Per Project		29435	29436	29438
Roadway Width	FT.	1	'	'
Approximate Length	FT.	438'	'	'

ITEM #	ITEM DESCRIPTION	UNIT			
30500	Mobilization	Lump Sum	*	*	*
30501	Finishing Roadway	Lump Sum	*	*	*
30606	Barricading and Signing	Lump Sum	*	*	*
40121	Cutting	cu. yd.	3	-	-
40122	Roadway Cutting	cu. yd.	-	160	10
40131	Filling	cu. yd.	98	182	12
40211	Pavement Removal	sq. yd.	973	-	476
40231	Curb and/or Curb and Gutter Removal	lin. ft.	-	603	189
40241	Concrete Walk and/or Driveway Removal	sq. ft.	-	2981	1081
40261	Sawing (Full Depth)	lin. ft.	916	-	-
40262	Sawing	lin. ft.	-	23	31
40411	Trees Clearing	in. dia.	-	8	-
40412	Trees Grubbing	in. dia.	-	8	-
50200	Concrete Curb and Gutter	lin. ft.	975	669	385
50315	5 inch Concrete Walk	sq. ft.	772	4223	2884
50330	Detectable Warning Field	sq. ft.	-	48	64
50367	7 inch Concrete Driveway	sq. ft.	-	170	195
50580	8 inch Concrete Pavement	sq. yd.	367	-	187
50700	Variable Thickness Concrete Base	cu. yd.	-	1	-
50760	6 inch Concrete Base	sq. yd.	-	84	-
60103	Tack Coat	gallons	-	205	-
60105	Base Preparation for Asphalt Surface	Lump Sum	*	*	*
60130	Variable Thickness Asphalt Concrete Pavement (1/2	tons	-	362	-
70203	3 inch Crushed Gravel Base	sq. yd.	-	-	240
70500	Gravel Filling	tons	38	20	83
82200	Sodding	sq. yd.	364	301	54
82300	Topsoil	cu. yd.	20	16	7
83200	Pavement Grinding	sq. yd.	-	1829	-
83311	Pavement Marking, 4" Yellow, Cold Plastic Furnish and	lin. ft.	-	56	-
83324	Pavement Marking, Crosswalk 12" White, Cold Plastic,	lin. ft.	-	220	-
83355	Pavement Marking, Crosswalk, Epoxy, 12 Inch, White	lin. ft.	-	-	174
83361	Pavement Marking Channelizing, Epoxy, 8 Inch	lin. ft.	160	-	-
83400	Sealing Pavement Joints and Cracks	sq. yd.	367	-	187
83800	Drill and Install Reinforcing Rods	each	452	-	31
84100	Manhole Rings (Combined Type)	each	-	3	-
84320	Water Valve Box Adjustment	each	-	5	-
84511	Manhole / Inlet Adjustment Type I	each	3	-	7
84512	Manhole / Inlet Adjustment Type II	each	-	8	-
84513	Manhole / Inlet Adjustment Type III	each	-	1	-
90001	Landmark Reference Monument	each	-	1	-
93500	Remove and Salvage Granite Pavers	sq. ft.	-	2781	-
97003	Abandon Storm Water Inlet or Catch Basin	each	-	1	1
97144	4 foot Diameter Manhole	each	-	1	1
97180	Inlet Frame and Cover Type 57	each	1	5	3
97181	Manhole Frame and Cover Type 58A	each	1	2	1
97210	Beehive Inlet Frame & Grate R-4360-D	each	-	1	-
97212	Inlet, Type 44A	each	1	3	2
97213	Inlet, Type 45A	each	-	1	-
97328	8" PVC Pipe	lin. ft.	14	154	11
97329	15" PVC Pipe	lin. ft.	-	6	-

* Combined under one lump sum.

Prepared by Estimating

**PROJECT BREAKDOWN
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Project Number		TOTAL	
	Plans Per Project		
	Roadway Width	FT.	
	Approximate Length	FT.	
ITEM #	ITEM DESCRIPTION	UNIT	
30500	Mobilization	Lump Sum	1
30501	Finishing Roadway	Lump Sum	1
30606	Barricading and Signing	Lump Sum	1
40121	Cutting	cu. yd.	3
40122	Roadway Cutting	cu. yd.	170
40131	Filling	cu. yd.	292
40211	Pavement Removal	sq. yd.	1449
40231	Curb and/or Curb and Gutter Removal	lin. ft.	792
40241	Concrete Walk and/or Driveway Removal	sq. ft.	4062
40261	Sawing (Full Depth)	lin. ft.	916
40262	Sawing	lin. ft.	54
40411	Trees Clearing	in. dia.	8
40412	Trees Grubbing	in. dia.	8
50200	Concrete Curb and Gutter	lin. ft.	2029
50315	5 inch Concrete Walk	sq. ft.	7879
50330	Detectable Warning Field	sq. ft.	112
50367	7 inch Concrete Driveway	sq. ft.	365
50580	8 inch Concrete Pavement	sq. yd.	554
50700	Variable Thickness Concrete Base	cu. yd.	1
50760	6 inch Concrete Base	sq. yd.	84
60103	Tack Coat	gallons	205
60105	Base Preparation for Asphalt Surface	Lump Sum	1
60130	Variable Thickness Asphalt Concrete Pavement (1/2	tons	362
70203	3 inch Crushed Gravel Base	sq. yd.	240
70500	Gravel Filling	tons	141
82200	Sodding	sq. yd.	719
82300	Topsoil	cu. yd.	43
83200	Pavement Grinding	sq. yd.	1829
83311	Pavement Marking, 4" Yellow, Cold Plastic Furnish and	lin. ft.	56
83324	Pavement Marking, Crosswalk 12" White, Cold Plastic,	lin. ft.	220
83355	Pavement Marking, Crosswalk, Epoxy, 12 Inch, White	lin. ft.	174
83361	Pavement Marking Channelizing, Epoxy, 8 Inch	lin. ft.	160
83400	Sealing Pavement Joints and Cracks	sq. yd.	554
83800	Drill and Install Reinforcing Rods	each	483
84100	Manhole Rings (Combined Type)	each	3
84320	Water Valve Box Adjustment	each	5
84511	Manhole / Inlet Adjustment Type I	each	10
84512	Manhole / Inlet Adjustment Type II	each	8
84513	Manhole / Inlet Adjustment Type III	each	1
90001	Landmark Reference Monument	each	1
93500	Remove and Salvage Granite Pavers	sq. ft.	2781
97003	Abandon Storm Water Inlet or Catch Basin	each	2
97144	4 foot Diameter Manhole	each	2
97180	Inlet Frame and Cover Type 57	each	9
97181	Manhole Frame and Cover Type 58A	each	4
97210	Beehive Inlet Frame & Grate R-4360-D	each	1
97212	Inlet, Type 44A	each	6
97213	Inlet, Type 45A	each	1
97328	8" PVC Pipe	lin. ft.	179
97329	15" PVC Pipe	lin. ft.	6

* Combined under one lump sum.

Prepared by Estimating

**PROJECT BREAKDOWN
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Project Number		811-0158	811-0150	811-0156
		29435	29436	29438
Plans Per Project		1		
Roadway Width	FT.	'	'	'
Approximate Length	FT.	438'		

ITEM #	ITEM DESCRIPTION	UNIT			
97332	12" PVC Pipe	lin. ft.	-	-	21
97900	Erosion Control	Lump Sum	*	*	*
99742	CUC Manhole Adjustment Type II	each	-	1	-

* Combined under one lump sum.

**PROJECT BREAKDOWN
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Project Number TOTAL

Plans Per Project
Roadway Width FT.
Approximate Length FT.

ITEM #	ITEM DESCRIPTION	UNIT	
97332	12" PVC Pipe	lin. ft.	21
97900	Erosion Control	Lump Sum	1
99742	CUC Manhole Adjustment Type II	each	1

* Combined under one lump sum.

OFFICIAL NOTICE NO. 105-1-2014

For

(ST211140150)

**E. Erie St. at E. Menomonee St. (Intersection modification) and E. Menomonee St. - N. Broadway to E. Erie St.
(ST211140156)**

**N. Water St. at E. Pearson St. (Marsupial bridge area access)
(ST211140158)**

W. Clybourn St. - a point east of N. 16th St. to N. 16th St. (median)

4th Aldermanic District

ALL BIDS MUST BE TYPED OR PRINTED

30500	MOBILIZATION	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
30501	FINISHING ROADWAY	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
30606	BARRICADING AND SIGNING	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
40121	CUTTING	3.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
40122	ROADWAY CUTTING	170.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
40131	FILLING	292.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.

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40211	PAVEMENT REMOVAL	1,449.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
40231	CURB AND/OR CURB AND GUTTER REMOVAL	792.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40241	CONCRETE WALK AND/OR DRIVEWAY REMOVAL	4,062.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
40261	SAWING (FULL DEPTH)	916.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40262	SAWING	54.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40411	TREES CLEARING	8.00 in. dia.
(Bid in figures)	\$ _____	per in. dia.
(Bid in words)	\$ _____	per in. dia.
40412	TREES GRUBBING	8.00 in. dia.
(Bid in figures)	\$ _____	per in. dia.
(Bid in words)	\$ _____	per in. dia.
50200	CONCRETE CURB AND GUTTER	2,029.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.

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50315	5 INCH CONCRETE WALK	7,879.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50330	DETECTABLE WARNING FIELD	112.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50367	7 INCH CONCRETE DRIVEWAY	365.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50580	8 INCH CONCRETE PAVEMENT	554.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
50700	VARIABLE THICKNESS CONCRETE BASE	1.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
50760	6 INCH CONCRETE BASE	84.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
60103	TACK COAT	205.00 gallon
(Bid in figures)	\$ _____	per gallon
(Bid in words)	\$ _____	per gallon
60105	BASE PREPARATION FOR ASPHALT SURFACE	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum

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60130	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT (1/2 INCH MAXIMUM)	362.00 ton
(Bid in figures)	\$ _____	per ton
(Bid in words)	\$ _____	per ton
70203	3 INCH CRUSHED GRAVEL BASE	240.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
70500	GRAVEL FILLING	141.00 ton
(Bid in figures)	\$ _____	per ton
(Bid in words)	\$ _____	per ton
82200	SODDING	719.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
82300	TOPSOIL	43.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
83200	PAVEMENT GRINDING	1,829.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
83311	PAVEMENT MARKING, 4" YELLOW, COLD PLASTIC FURNISH AND INSTALL	56.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83324	PAVEMENT MARKING, CROSSWALK 12" WHITE, COLD PLASTIC, FURNISH AND INSTALL	220.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.

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83355	PAVEMENT MARKING, CROSSWALK, EPOXY, 12 INCH, WHITE	174.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83361	PAVEMENT MARKING CHANNELIZING,EPOXY,8 INCH	160.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83400	SEALING PAVEMENT JOINTS AND CRACKS	554.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
83800	DRILL AND INSTALL REINFORCING RODS	483.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84100	MANHOLE RINGS (COMBINED TYPE)	3.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84320	WATER VALVE BOX ADJUSTMENT	5.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84511	MANHOLE / INLET ADJUSTMENT TYPE I	10.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84512	MANHOLE / INLET ADJUSTMENT TYPE II	8.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each

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84513	MANHOLE / INLET ADJUSTMENT TYPE III	1.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
90001	LANDMARK REFERENCE MONUMENT	1.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
93500	REMOVE AND SALVAGE GRANITE PAVERS	2,781.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
97003	ABANDON STORM WATER INLET OR CATCH BASIN	2.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97144	4 FOOT DIAMETER MANHOLE	2.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97180	INLET FRAME AND COVER TYPE 57	9.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97181	MANHOLE FRAME AND COVER TYPE 58A	4.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97210	BEEHIVE INLET FRAME & GRATE R-4360-D	1.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each

ST211140150 – E. Erie St. at E. Menomonee St., E. Menomonee St. – N. Broadway to E. Erie St.

ST211140156 – N. Water St. at E. Pearson St. (Marsupial bridge area access)

ST211140158 – W. Clybourn St. – a point east of N. 16th St. to N. 16th St. (median)

1. The work on this contract is governed by the *City of Milwaukee Street Construction Specifications*, dated July 1, 1992.
2. All work on this contract shall be completed by November 21, 2014.
3. The contractor shall be required to coordinate construction activities so that all work on an individual project is complete as per *Section 305.6.2 of the Specifications* within the following time limitations:

<i>Project No.</i> ST211140150	Twelve (12) Project Workdays
E. Erie Street at E. Menomonee St. – E. Menomonee Street – N. Broadway to E. Erie Street	
 <i>Project No.</i> ST211140156	 Ten (10) Project Workdays
N. Water Street at E. Pearson St. (Marsupial bridge access)	
 <i>Project No.</i> ST211140158	 Ten (10) Project Workdays
W. Clybourn Street – A point east of N. 16 th St. to N. 16 th Street	
4. The contractor shall be required to coordinate construction activities so that all work on this contract, including tree clearing and grubbing, sawing, sodding, joint sealing and finishing roadway, is complete within sixteen (16) contract workdays.
5. Some delay may be experienced due to underground installations. Such delay, the result of third party operations, shall not change the requirements of this contract or give rise to claim for scheduling problems.
6. Work cannot start on ST211140150 E. Erie St/E. Menomonee St. until intersection work at Erie/Young/Broadway is complete by Lalonde Contractors. This work is anticipated to be complete prior to September 5, 2014.
7. Mr. Neil Hoffmann, President
MIAD
273 East Erie Street
Milwaukee, WI 53202
(414) 847-3210
(414) 847-3211 Dagmar (Assistant)
8. This special provision is a substitute for Section 305.7 of the *Street Construction Specifications*, dated 1992. The amount of the per diem charge for inspection as referred to in part two (2) shall be **\$325.00**. The contractor should be aware that work on each project is governed by the project workdays, and a per diem inspectional charge of **\$325.00** per day will be assessed for each workday after the allotted number. Inspectional charges will be assessed against each project,

ST211140150 – E. Erie St. at E. Menomonee St., E. Menomonee St. – N. Broadway to E. Erie St.

ST211140156 – N. Water St. at E. Pearson St. (Marsupial bridge area access)

ST211140158 – W. Clybourn St. – a point east of N. 16th St. to N. 16th St. (median)

which exceeds its allotted number of workdays. An inspectional charge, in addition to the project workday charge, will be assessed if the number of workdays for the overall contract exceeds the amount allotted.

9. Within ten (10) business days of the award of this contract, the contractor shall mail a notice of the project to the City of Milwaukee Construction Section at 841 N. Broadway, Room 710, Milwaukee, WI 53202 for review and approval. Within five (5) business days of approval, the contractor shall mail the project notice to all affected area residents and businesses. It shall be the sole responsibility of the contractor to ensure that all notices are conveyed to the public regarding this project. A sample notice is included in the contract documents. The entire cost of this work shall be included in the unit price bid for mobilization. Contract work shall not start prior to completing the notice requirement. Any delay in contract completion as a result of non-compliance shall be the responsibility of the contractor.
10. The contractor shall post City of Milwaukee Project Identification ("BLUE") signs as directed on each project in this contract. The City will provide blank signs for the contractor to fill in contact information and post. The entire cost of this work shall be included in the unit price bid for mobilization.
11. The contractor shall provide a portable toilet or portable toilet service on each project location in the contract for use by construction and City personnel. Facilities shall be promptly removed upon completion of each individual project. Facilities shall be locked and secured during non-working hours. (Location shall be as directed). The entire cost of this work shall be included in the unit price bid for mobilization.
12. There are City of Milwaukee parking meters within the project limits of W. Clybourn St. and E. Erie St./E. Menomonee St. To hood or remove parking meters contact Ms. Natalie Hermann, Parking Operations, (414) 708-8596, mobile or (414) 286-3486, office. Contractor shall contact Natalie at least two (2) weeks prior to start of work.
13. For Project ST211140156, N. Water St. at E. Pearson St. there is a large bike rack at Sta. 1+50 W/S which will need to be removed and delivered to Tower Facility, shipping & receiving, 3850 N. 35th St. Please contact Rico Lopez at (414) 286-6123 or Kevin Gray at (414) 286-0669 prior to delivery. Include the cost of this work in bid item 40241, walk/driveway removal.
14. East Menomonee St. is one-way westbound and southbound. During construction maintain one (1) twelve-foot (12) wide lane of traffic.
15. East Pearson St. is one-way eastbound. Contractor must maintain one (1) twelve-foot (12) wide eastbound lane during construction. Construct Pearson intersection one-half (½) width at a time with high early strength concrete. Include cost of this work in the bid item 8" concrete pavement.
16. Vehicular access shall be maintained to the following location(s) at all times:
 - ➡ N. Water St.
 - ➡ N. Van Buren St.
 - ➡ E. Erie St.

ST211140150 – E. Erie St. at E. Menomonee St., E. Menomonee St. – N. Broadway to E. Erie St.

ST211140156 – N. Water St. at E. Pearson St. (Marsupial bridge area access)

ST211140158 – W. Clybourn St. – a point east of N. 16th St. to N. 16th St. (median)

17.  W. Clybourn St.
 Vehicular cross-traffic shall be maintained at the following intersection(s) at all times:
 N. 16th St. and W. Clybourn St.
18. Maintain pedestrian access at least one intersection corner and crosswalk at
 - North 16th St. and W. Clybourn St.
 - East Erie & East Menomonee
 - East Erie & North Broadway
 - N. Water & East Pearson
19. The item of manhole adjusting risers shall include furnishing and installing the following:

Project	2-Inch	2½-Inch	3-Inch	3½-Inch	Total
ST211140150 E. Erie St. at E. Menomonee St., E. Menomonee St. - N. Broadway to E. Erie Street	2	1			3
TOTAL	2	1			3

The number and size of risers may change at time of construction. No adjustment in the unit bid price will be made because of the change in the estimated number and/or size of risers.

The contractor shall provide a Pivoted Turnbuckle Manhole Riser that pivots at both ends, which eliminates the binding of mechanism when expanding or contracting the manhole riser.

The linkage assembly will contain no tack-welds. The linkage will pivot inside the solid ¾" thick bar. The linkage will accommodate +/- ½" diameter (full 1" diametric variance).

Riser must expand to obtain full circumferential engagement in the frame.

All moving parts are zinc plated with dichromate finish or stainless steel.
 Skirts are G90 galvanized.

The unit price bid (each) for adjusting manhole risers shall include furnishing and installing risers and any other work associated with adjusting manhole risers.

20. A three inch (3") crushed; gravel base course shall be placed under the proposed concrete curb and gutter to be constructed adjacent to the proposed concrete pavement. This work will be paid on a square yard basis at the bid price for three inch (3") crushed gravel base.
21. The erosion control item on this contract shall include an Erosion Control Implementation Plan (ECIP). The ECIP shall be submitted to the City Engineer, at least ten (10) working days prior to the scheduled start of work on the contract. The City Engineer shall review the ECIP for meeting technical standards and notify the contractor if the plan meets the standard within seven (7) working days. Work shall not start until the ECIP meets technical standards. The contractor shall

ST211140150 – E. Erie St. at E. Menomonee St., E. Menomonee St. – N. Broadway to E. Erie St.

ST211140156 – N. Water St. at E. Pearson St. (Marsupial bridge area access)

ST211140158 – W. Clybourn St. – a point east of N. 16th St. to N. 16th St. (median)

be required to have a copy of the ECIP on the job site for the entire duration of the contract. The ECIP shall include, but not be limited to:

- A plan showing all locations of erosion control devices and other *Best Management Practices (BMP's)*.
- A written description of all erosion control devices and *BMP's* to be used.
- A written schedule of installing erosion control devices.
- A written schedule of construction operations related to implementing erosion control devices and *BMP's*.
- A written maintenance schedule for all erosion control devices and *BMP's*.

All costs associated with implementing the erosion control plan, such as furnishing, installing, maintaining, and removal of erosion control devices shall be included in the unit price bid for erosion control. There shall be no additional compensation for revising the ECIP or utilizing additional *BMP's* in order to comply with *Chapter 290* of the *City of Milwaukee Code of Ordinances*. If the contractor is found not in compliance with the ECIP, the contractor will be subject to the penalties included in *Chapter 290*.

22. Section corner installation is required on this contract. It shall be installed in accordance with the *Landmark Reference Monuments and Cover Detail* dated, June 15, 1989.
23. The filter fabric for control of surface water, specified in *Section 905.18.1* shall be a filtration *Geotextile*® meeting the following properties in lieu of the properties specified in the above-noted section.

Grab Tensile Strength	200lb	ASTM D-4632
Mullen-Burst Strength	200lb	ASTM D-3786
Equivalent Sieve Size	U.S. No 30 Max	ASTM D-4751
Water Flow Rate	140 gpm/ft ²	ASTM D-4491
Permittivity	1.9 sec ¹	ASTM D-4491
Permeability	0.14 cm/sec	ASTM D-4491

24. For project ST211140150 all pavement-marking materials shall be pre-approved by the City of Milwaukee. There are two (2) pre-approved materials at this time, and they are:

MANUFACTURER	COLOR	NUMBER
3M®	White	5730
3M®	Yellow	5731

All material must be installed per the manufacturers' specifications.

If a centerline is required, an offset asphalt joint is required. Pavement markings shall be placed at the center of the roadway a minimum of one (1') foot from the asphaltic joint. Placement of lane lines may also require a minimum one (1') foot adjustment of the asphalt joint.

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If the final asphaltic surface is not installed immediately following the installation of the binder course, temporary centerline pavement markings shall be installed prior to the roadway being open to traffic. The spacing of the four-inch by forty-eight-inch (4" x 48") temporary pavement marking tape must be forty-six-feet (46'). The cost of such work shall be included in the unit bid price of *Plastic Lane Markings*.

When pavement marking layouts are needed, the contractor shall contact Mr. Jim Brown at (414) 286-3276, a minimum of five (5) working days before they are needed.

25. For project ST211140158 & ST211140156 all epoxy, pavement-marking material shall conform to Section 646 of the *State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, 1996 Edition*.

All material must be installed per the manufacturer's specification.

If the roadway is to be opened to traffic prior to the placement of permanent pavement markings, a temporary centerline pavement marking shall be installed prior to the roadway being opened to traffic. The spacing of the four-inch by forty-eight-inch (4" x 48") inch temporary pavement marking tape must be forty-six-feet (46'). The cost of such work shall be included in the unit bid price of *Epoxy Pavement Marking*.

When pavement marking layouts are needed, the contractor shall contact Mr. Jim Brown at (414) 286-3276, a minimum of five (5) working days before they are needed.

26. The adjustments of all City manholes (Sewer, CUC, Water, etc.) shall be part of this contract. Contractor shall note Sewer and CUC special provisions, tables, and drawings.
27. The contractor shall furnish and install detectable warning plates as detailed on the attached curb and sidewalk ramp details, at all curb and sidewalk ramps, within the project limits. The detectable warning plates shall be a *Neenah Foundry R-4984*, or an approved equal. The plates shall be unpainted. The installation of the detectable warning plates shall follow the manufacturers' suggested procedures. The installed detectable warning plates shall be measured on a per square foot unit basis, and paid under the item, *50330 Detectable Warning Field*.
28. Contractor shall be aware of **design revisions** made to **Concrete Driveways**, (Figures 21A, 21C, 23A, 23B and 26A). **Design changes** were also made to **Curb Ramps**, (Figures 16A, 17A and 18A). These **changes** are effective immediately and shall be implemented under this contract. (See attached revised drawings).
29. **Sewer Special Provisions include:**
- A. The sewer work on this contract is governed by the *Standard Specifications for Sewer & Water Construction in Wisconsin*, Sixth Edition dated December 22, 2003, and all Subsequent Addendums.

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- B. The contractor shall be responsible to keep all castings safe and free from damage as part of this paving contract during removal and replacement. Any damaged castings shall be brought to the attention of the construction engineer prior to removal. Any damage to the castings caused by the contractor as a result of removal and replacement shall be the responsibility of the contractor and replaced at the contractor's expense.
- C. The contractor shall furnish new castings on all new manholes and inlets constructed as part of this contract and on existing manholes and inlets as required in the plans. New sewer manhole frames and lids shall be of type MS21 and MS58A, respectively. New inlet frames and grates shall be of type MS51 and MS57, respectively. New alley inlet frames and grates shall be of type MS8A and MS55, respectively. Castings shall be of types supplied by Neenah Foundry or approved equal. The cost of furnishing new castings shall be included in the unit price bid for the respective casting. Salvaged castings shall become the property of the contractor.
- D. Manhole/Inlet Adjustment shall be in accordance with Section 810 of the *City of Milwaukee Street Construction Specifications*, dated July 1, 1992. Section **810.6 Measurement for Payment** shall be revised as follows: the unit of measurement for Manhole/Inlet Adjustment shall be: Each.
- E. Manhole/Inlet Repair shall be the removal and replacement of portions of existing manholes and inlets as required in the plans. Additional manhole/inlet repair may be added to any existing manhole/inlet once construction begins at the discretion of the construction engineer. The cost of removals and furnishing and installing all materials shall be included in the price bid for Manhole/Inlet Repair. The unit of measurement for Manhole/Inlet Repair shall be: Vertical Foot.
- F. The cost of removing any existing manhole/inlet necessary to construct any new manhole/inlet as required in the plans shall be included in the appropriate manhole/inlet bid item.
- G. The cost of all materials, including pipe, used to reconnect existing connections to new manholes constructed as part of this contract shall be included in the appropriate manhole bid item.
- H. Inlet Type 45A's shall include up to eighteen (18) inches of additional pre-cast riser structure, for a total structure height of up to sixty (60) inches below the top slab, while maintaining a minimum of eight (8) inches of rectangular precast chimney. If the inlet installation requires more than an additional eighteen (18) inches of riser structure over the standard detail forty-two (42) inch tall structure, the additional shall be paid as vertical feet under the Manhole / Inlet Repair bid item.
- I. All sewers constructed on this contract shall be PVC, smooth wall, and shall conform to ASTM D 3034 SDR 35.
- J. Precast concrete adjusting rings shall be of the type supplied by Concrete Specialties Company, Kenosha, Wisconsin or approved equal.

30. **CUC/Communication Manhole Adjustment**

A. **Description**

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This special provision describes adjusting the existing chimney of the block, pre-cast, or brick round manholes; and furnishing, installing, and removing protection of the cables in the manholes during adjustment and paving operations. Perform work in accordance with the standard specifications, per *Standard Specifications for Sewer & Water Construction in Wisconsin*, as shown on the attached sketch, and as hereinafter specified.

B. Material

Furnish and install materials that conform to the requirements of *Standard Specifications for Sewer & Water Construction in Wisconsin*. Salvage and re-install existing covers on the manholes. For manhole covers designated for replacement the city will supply the covers. Contact Rico Lopez, Inventory Clerk, at (414) 286-6123 prior to obtaining the frames and lids from the DPW Field Headquarters at 3850 North 35th Street. Contractor must have the "Castings Requisitions Form" which shall be supplied by the city to obtain the covers.

C. Construction

Report any pre-existing problems to Ms. Karen Rogney, Conduit Section, at (414) 286-3243 three working days in advance of any construction on manholes.

Before removing the pavement around the manhole, place a $\frac{3}{4}$ " plywood cover or equal over existing active Street Lighting, Traffic Control, Communication or private vendor electrical cables. This cover shall be properly supported to/at the manhole floor. Contractor must place a steel cover plate over the manhole which must remain in place during construction activities until the frame and cover are placed on the manhole.

Remove existing chimney to surface of concrete roof slab. If manhole does not have an existing concrete roof slab, remove sufficient chimney as to provide adequate corbel to fit new larger cast iron frame and cover.

Break out and remove pavement around manhole. Remove existing covers, storing and securing them properly. Any damaged, lost, or stolen covers shall be the responsibility of the contractor and shall be replaced at the contractor's expense.

Adjust manhole cover to proposed grade using brick or concrete rings as necessary. After paving is complete, remove all wedges and shims. Fill voids with grout. Do not back plaster inside walls. After completion of all paving operations, remove the temporary $\frac{3}{4}$ " plywood cover or equal which was placed over the existing electrical cables in the manhole as mentioned above. Remove all construction debris from the manhole.

D. Measurement and Payment

The unit of measurement for CUC manhole adjustment shall be each.

Note: CUC Manhole Adjustment shall include up to twelve (12) inches of Adjustment. Payment shall be full compensation for furnishing all required materials, exclusive of frames, grates, or lids available and designated for adjusting; for removing, re-installing and adjusting the covers; and for furnishing all labor, tools, equipment, and incidentals necessary for adjusting each cover, complete in accordance to the requirements of the plans and contract. Covers to be adjusted and which were rendered unfit for use by the

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contractor, through the contractor's operations will be replaced by the contractor in kind at the contractor's own cost and expense.

31. One (1) tree is to be removed on Project No. ST211140150 as follows:

Size and Type	Location
8" Locust	Sta. 5+21 S/S

32. The City has retained a consultant for doing line and grade staking on paving contracts. The City needs the project staked five (5) working days before construction starts so the removals can be measured by City field crews. As a result, the contractor must contact the City eight (8) working days in advance so that the City can give the consultant three (3) working days to stake the project. The City will make the initial consultant contact at the time the contractor calls for a start. If the contractor wants the stakeout done in a special way to accommodate a special piece of equipment or a new procedure, it is up to the contractor to communicate this to the consultant. The consultant is required to stake each stage of work one (1) time. The contractor is required to check that the stakes and grades are acceptable to use before construction starts. Any staking required because the contractor failed to protect the stakes or failed to transfer the grades would be at the contractor's expense. If there are design changes, the consultant will be paid an *extra* for stakeout. Stakes needing replacement due to alleged third party actions will require Construction Supervisor approval if a cost is involved.
33. The contractor shall protect, adjust and maintain accessibility to all water access boxes (services, valves, etc.) within the limits and for the duration of the paving project. Within the limits of the project, there are approximately **5 gate valves and 0 water service boxes** to be protected, maintained and adjusted. Cost for this work shall be per each as listed in the bid item quantities.

The City will locate, mark, inspect and repair all water access boxes within the limits of the project before the contract starts. Before construction commences, the contractor will be provided additional detailed information identifying these facilities. The contractor is responsible throughout the duration of the project, to ensure all water boxes are adequately located and identified by blue paint and that they remain accessible for operation of the appurtenances by City forces at all times. The contractor shall exercise caution in working adjacent to these facilities to protect them from damage and to maintain the required access to them. Any facility identified during the duration of the project that cannot be located or operated, must be corrected by the contractor at that time. If the City requires location and/or operation of water appurtenances during the course of paving, and it is not identifiable and/or accessible, the City will make the necessary repairs and the cost as well as the bid item deducted from the contract or billed.

All materials used for the adjustment of these facilities must meet City specifications and will be provided by *Milwaukee Water Works' Stores* by contacting Mr. Jesse Hernandez at (414) 286-6306 and / or (414) 708-2670. If there is contractor damage, the materials must still be provided by the *Milwaukee Water Works' Stores*; however, in this case, the contractor will be charged for all materials. Materials furnished by the City and not used on the project shall be delivered to the *Milwaukee Water Works' Stores*, 3850 North 35th Street. Materials being returned must be

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accompanied with a "**surplus material**" form completed by the Public Works' Inspector assigned to the project.

Upon completion of the contract work, the City will inspect all water access boxes within the project limits to ensure the boxes are clean, properly aligned and accessible. The contractor will be notified of any defects by the City. The contractor will have thirty (30) days from the date of notification to complete corrections. After thirty (30) days the City will re-inspect those boxes noted as having defects. Any remaining defects will be corrected by the City, including pavement, and the costs as well as the bid item deducted from the contract or billed.

34. During construction, it is anticipated that the City of Milwaukee **street lighting facilities** will be maintained as follows:

Project/s	Street Lighting Facilities
16 th & Clybourn N. Water & E. Pearson E. Erie & East Menomone	Existing underground to remain live Part Temp OH/Part Protect & Adjust Temporary OH

Street Lighting personnel will determine if the lighting facilities will be installed in overhead or left in service to be protected and adjusted. If it is determined that overhead is justified, street lighting personnel will make every effort to install temporary overhead facilities and relocate permanent facilities, as needed, before roadway construction starts. Prior to construction, the contractor will be provided with a street lighting plan identifying the live facilities.

The contractor shall be aware that when **Temporary Overhead** is installed, some existing underground street lighting facilities can remain live and must be carefully worked around to avoid any damage to them. The contractor is to be aware that with many paving jobs overhead facilities will be installed at the intersections only while the remainder of the job is to be treated as a protect and adjust project. The contractor will be held responsible for any damages to the portions of the lighting facilities which remain in underground and live. The contractor is not start work until the street lighting overhead circuitry is fully operational. If the contractor starts before the circuitry is fully operational, he will be responsible for all damages to lighting facilities.

During and after roadway construction, *Street Lighting Forces* will install permanent lighting facilities. Once street lighting personnel installs permanent facilities, especially pipes, the contractor is to use caution near these facilities. He will be held responsible for damages to the newly installed facilities.

The contractor shall keep the *Street Lighting Construction Supervisors* informed of the status of the roadway construction. Contact:

Mr. George Berdine (414) 286-5943 / office (414) 708-4245 / cell
 Mr. Dennis Miller (414) 286-5942 / office (414) 708-4251 / cell
 Mr. Thomas Hughes (414) 286-3457 / office (414) 708-3175 / cell

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Note: If Mr. Berdine, Mr. Miller, or Mr. Hughes is not available, then contact our dispatcher at (414) 286-5944. For damages occurring after hours (not between 7:00 AM to 3:00 PM on holidays and weekends) please use our 24 hour number, (414) 286-3015.

The contractor must keep the area behind the curb free from over pour and other debris. He will be held responsible for costs incurred by *Street Lighting Forces* for cleaning debris from behind the curb.

If the contractor requests the relocation of any street lighting facilities, *permanent or temporary*, for his convenience, he will be responsible for all costs incurred by *Street Lighting* personnel fulfilling his request.

Any questions regarding the design of the lighting system are to be directed to *Street Lighting Engineering*. Contact Mr. Tom Manzke at (414) 286-3265.

35. **Forestry**

Forestry Special Provisions include:

When tree roots are encountered, the following shall apply:

1. **Sidewalk Construction:**

- A. The root system on the walk side of the tree shall be cut no deeper than **nine-inches (9")** below the finished grade of the new walks, and not more than **five-inches (5")** from the edge of the new walk. Roots in the walk area shall be removed only to a depth of **nine-inches (9")** below the finished grade of the new walk.
- B. Sidewalks are to be removed, and roots cut, by use of **hand implements only**.

2. **Curb, Gutter and Road Construction:**

- A. The root system on the curbside shall be cut no more than **two-inches (2")** behind the back edge of the new curb and not more than **eighteen-inches (18")** in depth when constructing the new curb and gutter.
- B. Exposed tree roots shall be covered with mulch and watered from a period immediately following curb and gutter removal until the area is backfilled following construction.

3. **General Requirements:**

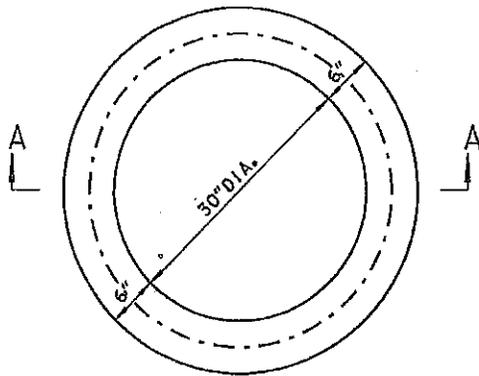
- A. All cutting for the removal of sod and soil in order to establish a finished grade within four feet (4') of existing trees must be done manually if necessary.

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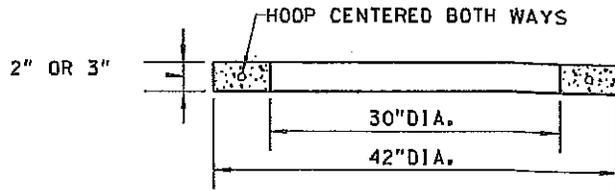
ST211140158 – W. Clybourn St. – a point east of N. 16th St. to N. 16th St. (median)

- B. No construction equipment, cars, trucks or materials shall be parked or stored on any median or tree border on this project or adjacent roadways.
- C. Root foundations must remain adequate to withstand heavy windstorms.
- D. Root systems of street trees **shall not be cut** for the installation of any type of cable by the contractor or City Department. Contact **the Forestry Division at (414) 708-2428** for directional boring specifications.
- E. Caution should be used during the construction process to avoid damage to the roots, trunks, and branches of all street trees. Damage caused to any street tree or irrigation system will be **repaired by the Forestry Division** and the costs of repair, rejuvenation, and/or value lost will be billed to the contractor or credited against the contract at the option of the City.
- F. At locations where the contractor has not complied with the Forestry Special Requirements stated in the Special Provisions above, and the maximum clearance was exceeded, or a thin form was not used, a minimum credit to the City of **fifty dollars (\$50.00)** per location will be taken. The credit will increase in proportion to the excess distance beyond clearance allowed. The credit will be **(\$50.00)** for each two-inch (2") increment, or part thereof, in excess of the initial clearance allowed. Any damage to the tree's structure totaling fifteen (15%) percent of the tree's value will be billed on a prorata basis. If, in the opinion of the Forestry Division, the tree has been damaged to the point that it warrants removal, the credit that will be taken will be equal to **one-hundred dollars (\$100.00)** per inch diameter of the tree. A field measurement will be taken to determine the tree size.



PLAN

CONCRETE ADJUSTING RING



SECTION A-A

THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

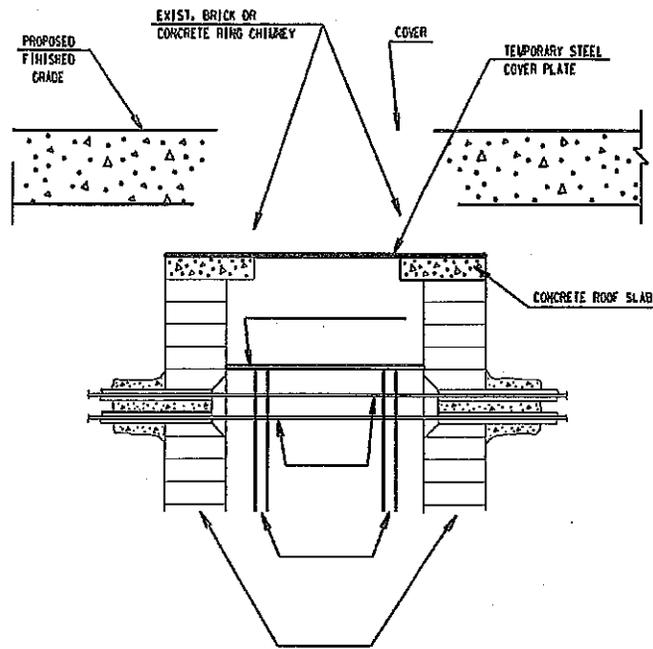
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

ADJUSTING CUC MANHOLES

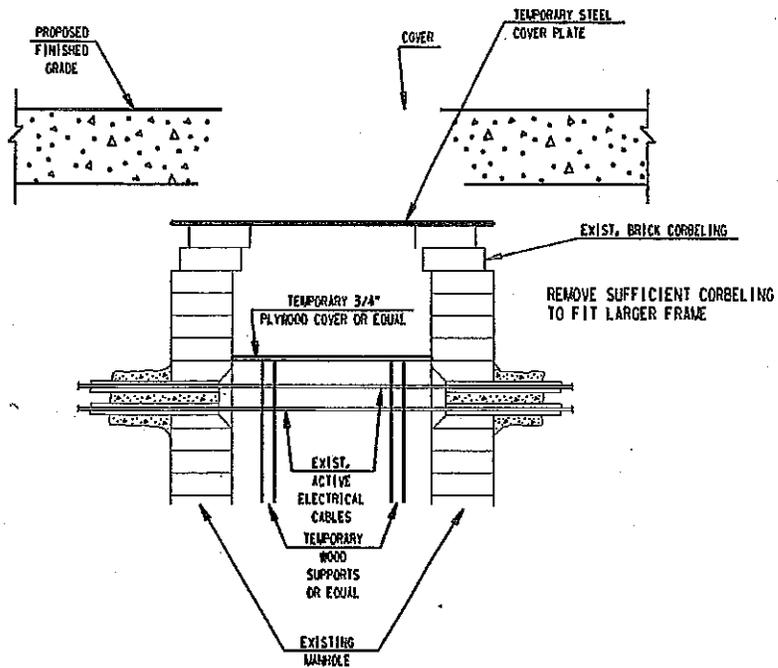
E ERIE ST @ E MENOMONEE ST

NO.	LOCATION	MANHOLE ADJUSTMENT EACH	COVER	REMARKS
1693A	STA 4 + 30.3, 6.4 LT	1	NEW COVER	
TOTAL		1		

CUC MANHOLES CONTAIN LIVE ELECTRICAL AND COMMUNICATIONS CABLES INCLUDING FIBER OPTICS. THE CONTRACTOR WILL FOLLOW ALL OSHA AND NFPA SAFETY REGULATIONS REGARDING WORKING IN CLOSE SPACES AND WORKING AROUND LIVE CABLES.



BLOCK OR PRECAST MANHOLE



BRICK ROAD MANHOLE

ADJUSTING CUC MANHOLE COVERS

Example Post Contract Award Letter – Reconstruction

[Fill in Contact Information]

Contractor

Name

Phone Number

Address

City of Milwaukee

Street Reconstruction Project

[Fill in Project Information]

Project Locations

The City of Milwaukee has recently awarded our firm a paving contract which includes the above projects. The City will provide you with another notice prior to work starting on your block.

This work will include reconstruction of the roadway with concrete pavement. In preparation for the new pavement, there will be removal and replacement of curb and gutter, sidewalk and driveway approaches, as well as adjustments and repairs to manholes and storm water inlets.

You will experience disruption of your daily traffic patterns due to the project, but we will do our best to minimize them. There will be a closure of the street for the duration of the project which will require night parking on adjacent streets if there is no alley parking. Any special access accommodations should be made prior to the start of work.

The work being performed is to be funded by both the City of Milwaukee general fund and by special assessments. Property owners will have received separate notice of proposed special assessments.

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