

WORK PLAN
SPECIAL EXPERIMENTAL PROJECT NO. 14
Michigan Department of Transportation
JOB ORDER CONTRACTING FOR TRAFFIC SIGNAL INSTALLATION
Job Number: 128155, Control Section: 84916
December 22, 2015

1 INTRODUCTION

The Michigan Department of Transportation (MDOT) submits this work plan to use the Job Order Contracting (JOC) delivery method for the installation of traffic signal devices under the provisions of Special Experimental Projects No. 14 (SEP-14) for the use of innovative contracting practices.

2 PURPOSE

This work plan will detail how MDOT proposes to utilize the JOC delivery method to complete the installation of traffic signal devices at various locations on the state highway system in the University Region (Clinton, Shiawassee, Eaton, Ingham, Livingston, Jackson, Washtenaw, Hillsdale, Lenawee, and Monroe Counties). With approval of the work plan MDOT expects to complete signal modernizations at numerous locations in a timely manner with the least cost for construction procurement and delivery.

3 SCOPE

This contract is for the installation of traffic signal devices at various locations on the state highway system. Specific project locations and designs will not be known at the time of letting, and will be determined during project development. The procurement will contain a master set of specifications, construction methods and detail drawings, special detail drawings, maintaining traffic requirements, measurement and payment items, and terms and conditions. The measurement and payment section will contain a list of fixed pre-priced construction items. MDOT will advertise the project and Contractors will bid an adjustment factor, which will be applied to all items. By using an adjustment factor it will ensure that Contractors cannot under bid individual pay items and over bid others creating a bid that is low at the time of letting, but could result in a higher contract price after construction is completed. A bidder might bid an adjustment factor of 1.09, meaning the Contractor would complete the work for any of the pre-priced construction items listed multiplied by 1.09. The Contractor who bids the lowest adjustment factor may be awarded the contract. MDOT guarantees work will be assigned for a minimum number of locations with the option of additional locations being added through a work order.

The Engineer of Traffic Signal Design and their staff will be responsible for providing a signal design package to the Contractor for each location through a work order. During the design phase of each work order the Contractor will attend field meetings with the designer, including a design kickoff meeting and utility coordination meeting. Upon completion of the design, the Contractor will be provided a traffic signal design package for each individual location which will include the applicable pay items and quantities, a scaled plan drawing, wiring diagrams, traffic signal timing permits (when appropriate), pole contact height (POCH) diagrams, note blocks specifying coordination with any appropriate utility and/or railroad companies, soil boring information and foundation design information for steel strain pole installations when required, and removal plan and removal wiring diagram.

MDOT will assign a Construction Engineer and they will be responsible for monitoring the performance of the work for consistency with the specifications, estimates, and general oversight of construction activities. For each location, the Contractor will provide the Construction Engineer with a work schedule, as-built plans, and notification of completion date. Upon completion of each work order, the Contractor will submit an itemized invoice for that specific installation. Payment will be handled through the regular process using Field Manager.

Special Provisions for Traffic Signal Installation and Preparation, Delivery, and Consideration of Bids on Job Order Contracting Projects, and a Mandatory Pre-Bid Meeting have been developed and are attached.

All work will comply with federal, state, and local laws and permitting requirements.

4 SCHEDULE

This project is currently programmed for \$1,000,000 and the anticipated letting date is April 2016, with a November 24, 2017 completion date.

5 SUBMITTAL REQUIREMENTS TO FHWA

MDOT will provide the FHWA – Michigan Division with the contract documents for this project for approval prior to advertising.

6 EVALUATION AND MEASURES

In order to evaluate the success of this innovative contracting method, MDOT will assess the completed work for all work orders compared to a typical design-bid-build project. To accomplish this, MDOT will estimate the price for all items in each work order using our traditional estimating methods that are based on recent bidding history and compare this to the contract amount.

Industry reaction will also be measured by comparing the bids on similar contracts to the number of bids received on the JOC contract, as well as meeting with industry prior to the advertisement of the project and with the selected contractor after the project is completed.

7 REPORTING

MDOT will prepare a report and submit to the FHWA within 6 months after the project is completed. The report will include, at a minimum, the following:

- An overall evaluation of the project with any lessons learned, suggestions, and recommendations for improving the JOC process.
- Summarize the activities of the design and procurement process.
- An analysis of the bid results.
- Industry reaction to the JOC process.
- Contract complications encountered during the procurement and delivery.

**ATTACHMENT A: Special Provision for Traffic Signal Installation on Job Order
Contracting Projects**

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
TRAFFIC SIGNAL INSTALLATION ON JOB ORDER CONTRACTING PROJECTS

DES:MAD

1 of 22

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a. Description. The work consists of providing all materials, labor and equipment to complete the installation of traffic signal devices at various locations on the state highway system throughout the MDOT University Region (Clinton, Shiawassee, Eaton, Ingham, Livingston, Jackson, Washtenaw, Hillsdale, Lenawee, and Monroe Counties) utilizing the Job Order Contracting delivery method.

A Job Order Contract is an indefinite quantity contract where the exact locations and work items are not known at the time of letting. The proposal contains a master set of specifications, construction methods, special provisions, and terms and conditions. Work items that are common to the installation of traffic signal devices are included in Table 2. The Bidder will bid an Adjustment Factor that will be applied to the fixed unit price for each pay item listed in Table 2 according to the Special Provision for Preparation, Delivery, and Consideration of Bids on Job Order Contracting Projects. The items of work in each Work Order will be paid at the contract unit price for the number of units used at the project location for each pay item.

The Engineer will provide a signal design package to the Contractor for each location through a Work Order. Each traffic signal design package will be provided for each individual project location and will include the project location, scaled plan drawing, wiring diagrams, pay items with quantities, traffic signal timing permits (when appropriate), pole contact height (POCH) diagram(s), note blocks specifying coordination with any appropriate utility company and/or railroad, soil boring information and foundation design information for steel strain pole installation(s) when required, and removal wiring diagrams. A Special Provision for Maintaining Traffic will be provided as part of each work order and will include the traffic restrictions, requirements, and work hours.

The Department guarantees Work Orders will be assigned at a minimum of five locations with the possibility of assigning work at three additional locations.

The contract period is detailed in the Progress Clause.

b. Materials. Provide materials in accordance with the standard specifications for construction and the special provisions included in the proposal.

c. Construction. Work with the designer during the development of each signal design package. This will include the following:

1. Attend design kickoff, utility coordination, and field review meetings at a location to be determined by the Engineer.
2. Review in-progress design plans and specifications and provide input, offer suggestions, and identify potential problems with respect to constructability and completeness or clarity.

3. Attend a pre-construction meeting for each work order at a location to be determined by the Engineer.

Complete the work detailed in each Work Order.

The Contractor is responsible for coordinating work with utility companies and/or railroads. The Contractor is responsible for all costs to repair damage to existing facilities (to remain in place and in service) caused by the construction of this project. The Department will reimburse the Contractor for direct costs by the utility company and/or the railroad and not for any additional handling or processing. The Contractor will submit an original receipt or invoice from the utility company and/or railroad, and proof of payment to the Department's Engineer for reimbursement.

The Contractor will provide the Engineer with As Built Plans for each Work Order. The As Built Plans are the original Work Order plan sheets that have been updated to show changes, corrections, and comments made during construction.

d. Measurement and Payment. The completed work as described, will be measured and paid for at the contract unit price. The Contractor's cost to work with the designer will not be paid for separately, but will be included in costs for other pay items.

Pay items included in a work order that are not included in the list of pre-priced construction items in Table 2 will be paid in accordance with subsection 109.05 of the Standard Specifications for Construction.

Table 2: Pre-Priced Construction Items

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
1500001	Mobilization, Max. _____	LSUM	10% of Work Order
2040020	Curb and Gutter, Rem	Ft	\$6.49
2040021	Curb, Rem	Ft	\$7.33
2040050	Pavt, Rem	Syd	\$15.00
2040055	Sidewalk, Rem	Syd	\$7.82
2040080	Exploratory Investigation, Vertical	Ft	\$27.09
2050010	Embankment, CIP	Cyd	\$6.74
2050011	Embankment, LM	Cyd	\$10.05
2050012	Embankment, Structure, CIP	Cyd	\$25.13
2050016	Excavation, Earth	Cyd	\$6.24
2050031	Non Haz Contaminated Material Handling and Disposal, LM	Cyd	\$36.31
2080010	Erosion Control, Aggregate Cover	Syd	\$2.00
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	\$84.00
2080030	Erosion Control, Sand Fence	Ft	\$5.79
2080036	Erosion Control, Silt Fence	Ft	\$1.94
3010002	Subbase, CIP	Cyd	\$12.83
3010003	Subbase, LM	Cyd	\$12.53
3070001	Approach, CI I	Ton	\$20.07
3070002	Approach, CI I, CIP	Cyd	\$37.95
3070003	Approach, CI I, LM	Cyd	\$22.45
3070005	Approach, CI I, 3 inch	Syd	\$6.07
3070006	Approach, CI I, 4 inch	Syd	\$6.20
3070007	Approach, CI I, 5 inch	Syd	\$6.96
3070008	Approach, CI I, 6 inch	Syd	\$7.72
3070009	Approach, CI I, 7 inch	Syd	\$12.86
3070010	Approach, CI I, 8 inch	Syd	\$18.00
3070021	Approach, CI II	Ton	\$20.36
3070022	Approach, CI II, CIP	Cyd	\$30.30
3070023	Approach, CI II, LM	Cyd	\$28.08
3070025	Approach, CI II, 3 inch	Syd	\$7.40
3070026	Approach, CI II, 4 inch	Syd	\$5.50
3070027	Approach, CI II, 5 inch	Syd	\$12.32
3070028	Approach, CI II, 6 inch	Syd	\$19.14
3070029	Approach, CI II, 7 inch	Syd	\$8.50
3070030	Approach, CI II, 8 inch	Syd	\$12.00
3070041	Approach, CI III	Ton	\$22.00
3070042	Approach, CI III, CIP	Cyd	\$20.00

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
3070043	Approach, CI III, LM	Cyd	\$18.50
3070046	Approach, CI III, 4 inch	Syd	\$7.47
3070048	Approach, CI III, 6 inch	Syd	\$5.34
4030005	Dr Structure Cover, Adj, Case 1	Ea	\$422.31
4030006	Dr Structure Cover, Adj, Case 2	Ea	\$344.21
4030010	Dr Structure Cover, Type B	Ea	\$500.00
4030050	Dr Structure Cover, Type K	Ea	\$625.00
4030065	Dr Structure Cover, Type Q	Ea	\$575.00
4037050	Dr Structure Cover, ADA Compliant	Ea	\$800.00
5010005	HMA Surface, Rem	Syd	\$3.48
5010025	Hand Patching	Ton	\$99.43
5010061	HMA Approach	Ton	\$101.79
8020001	Curb, Conc, Det E1	Ft	\$20.87
8020002	Curb, Conc, Det E2	Ft	\$24.12
8020004	Curb, Conc, Det E4	Ft	\$25.52
8020005	Curb, Conc, Det G1	Ft	\$10.68
8020006	Curb, Conc, Det G2	Ft	\$32.00
8020015	Curb and Gutter, Conc, Det B1	Ft	\$20.00
8020016	Curb and Gutter, Conc, Det B2	Ft	\$22.26
8020017	Curb and Gutter, Conc, Det B3	Ft	\$21.83
8020020	Curb and Gutter, Conc, Det C1	Ft	\$18.65
8020021	Curb and Gutter, Conc, Det C2	Ft	\$26.40
8020022	Curb and Gutter, Conc, Det C3	Ft	\$18.65
8020023	Curb and Gutter, Conc, Det C4	Ft	\$21.29
8020024	Curb and Gutter, Conc, Det C5	Ft	\$43.45
8020025	Curb and Gutter, Conc, Det C6	Ft	\$24.76
8020030	Curb and Gutter, Conc, Det D1	Ft	\$18.50
8020031	Curb and Gutter, Conc, Det D2	Ft	\$22.59
8020032	Curb and Gutter, Conc, Det D3	Ft	\$34.33
8020035	Curb and Gutter, Conc, Det F1	Ft	\$21.67
8020036	Curb and Gutter, Conc, Det F2	Ft	\$24.26
8020037	Curb and Gutter, Conc, Det F3	Ft	\$20.63
8020038	Curb and Gutter, Conc, Det F4	Ft	\$17.95
8020039	Curb and Gutter, Conc, Det F5	Ft	\$18.55
8020040	Curb and Gutter, Conc, Det F6	Ft	\$23.94
8027001	Curb and gutter, Conc, Modified	Ea	\$22.00
8030010	Detectable Warning Surface	Ft	\$39.55
8030033	Sidewalk Ramp, Conc, 3 inch	Sft	\$7.50
8030034	Sidewalk Ramp, Conc, 4 inch	Sft	\$7.24

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8030036	Sidewalk Ramp, Conc, 6 inch	Sft	\$7.33
8030037	Sidewalk Ramp, Conc, 7 inch	Sft	\$5.45
8030043	Sidewalk, Conc, 3 inch	Sft	\$3.50
8030044	Sidewalk, Conc, 4 inch	Sft	\$3.52
8030046	Sidewalk, Conc, 6 inch	Sft	\$4.49
8030047	Sidewalk, Conc, 7 inch	Sft	\$4.08
8030050	Sidewalk, Clay Brick Pavers	Sft	\$8.37
8030051	Sidewalk, Clay Brick Pavers, Rem	Sft	\$4.03
8037010	Decorative Conc Ramp, ___ inch	Sft	\$11.00
8037010	Decorative Conc Sidewalk, ___ inch	Sft	\$11.00
8070085	Post, Wood Guard	Ea	\$53.00
8070090	Post, Wood Guide	Ea	\$111.03
8100280	Fdn, Wood Support, Rem	Ea	\$89.80
8100330	Perforated Steel Square Tube Breakaway System	Ea	\$553.23
8100371	Post, Steel, 3 lb	Ft	\$4.82
8100380	Post, Wood, 4 inch by 6 inch	Ft	\$15.44
8100381	Post, Wood, 4 inch by 6 inch, Direct Embedment	Ft	\$24.00
8100382	Post, Wood, 6 inch by 8 inch	Ft	\$20.17
8100383	Post, Wood, 6 inch by 8 inch, Direct Embedment	Ft	\$12.04
8100390	Sign, Type I, Erect, Salv	Ea	\$719.13
8100391	Sign, Type I, Rem	Ea	\$352.06
8100392	Sign, Type IA	Sft	\$22.92
8100393	Sign, Type IB	Sft	\$25.11
8100394	Sign, Type IC	Sft	\$16.59
8100396	Sign, Type II, Erect, Salv	Ea	\$51.48
8100397	Sign, Type II, Rem	Ea	\$15.98
8100398	Sign, Type IIA	Sft	\$15.38
8100399	Sign, Type IIB	Sft	\$15.26
8100400	Sign, Type IIC	Sft	\$14.25
8100402	Sign, Type III, Erect, Salv	Ea	\$35.59
8100403	Sign, Type III, Rem	Ea	\$9.24
8100404	Sign, Type IIIA	Sft	\$13.87
8100405	Sign, Type IIIB	Sft	\$13.87
8100406	Sign, Type IIIC	Sft	\$25.00
8100409	Sign, Type IV, Rem	Ea	\$5.00
8100410	Sign, Type IVA	Sft	\$14.80
8100411	Sign, Type IVB	Sft	\$18.00
8100412	Sign, Type IVC	Sft	\$16.00
8100414	Sign, Type IIIB, Modified	Sft	\$13.50

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8100510	Mast Arm Pole, Cat I	Ea	\$6,000.00
8100511	Mast Arm Pole, Cat II	Ea	\$5,000.00
8100512	Mast Arm Pole, Cat III	Ea	\$5,500.00
8100520	Mast Arm, 20 foot, Cat I	Ea	\$7,819.07
8100521	Mast Arm, 25 foot, Cat I	Ea	\$7,947.21
8100522	Mast Arm, 30 foot, Cat I	Ea	\$7,800.00
8100523	Mast Arm, 35 foot, Cat I	Ea	\$7,838.20
8100524	Mast Arm, 40 foot, Cat I	Ea	\$6,500.00
8100525	Mast Arm, 45 foot, Cat I	Ea	\$8,500.00
8100526	Mast Arm, 50 foot, Cat I	Ea	\$10,450.00
8100530	Mast Arm, 20 foot, Cat II	Ea	\$5,000.00
8100531	Mast Arm, 25 foot, Cat II	Ea	\$5,000.00
8100532	Mast Arm, 30 foot, Cat II	Ea	\$6,000.00
8100533	Mast Arm, 35 foot, Cat II	Ea	\$7,000.00
8100534	Mast Arm, 40 foot, Cat II	Ea	\$6,500.00
8100535	Mast Arm, 45 foot, Cat II	Ea	\$7,000.00
8100536	Mast Arm, 50 foot, Cat II	Ea	\$8,100.00
8100540	Mast Arm, 20 foot, Cat III	Ea	\$4,000.00
8100541	Mast Arm, 25 foot, Cat III	Ea	\$3,000.00
8100542	Mast Arm, 30 foot, Cat III	Ea	\$3,125.00
8100543	Mast Arm, 35 foot, Cat III	Ea	\$3,266.00
8100544	Mast Arm, 40 foot, Cat III	Ea	\$4,500.00
8100545	Mast Arm, 45 foot, Cat III	Ea	\$5,500.00
8100546	Mast Arm, 50 foot, Cat III	Ea	\$6,500.00
8100550	Mast Arm Pole Fdn, 6 Bolt	Ft	\$388.70
8100560	Mast Arm, Rem	Ea	\$395.16
8100570	Mast Arm Std, Rem	Ea	\$300.16
8110022	Pavt Mrkg, Ovly Cold Plastic, 4 inch, White	Ft	\$1.68
8110023	Pavt Mrkg, Ovly Cold Plastic, 4 inch, Yellow	Ft	\$1.53
8110024	Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk	Ft	\$2.48
8110025	Pavt Mrkg, Ovly Cold Plastic, 6 inch, White	Ft	\$2.76
8110026	Pavt Mrkg, Ovly Cold Plastic, 6 inch, Yellow	Ft	\$2.90
8110027	Pavt Mrkg, Ovly Cold Plastic, 8 inch, White	Ft	\$3.00
8110028	Pavt Mrkg, Ovly Cold Plastic, 8 inch, Yellow	Ft	\$3.00
8110039	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Cross Hatching, White	Ft	\$4.65
8110040	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Cross Hatching, Yellow	Ft	\$5.06
8110041	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk	Ft	\$4.48
8110042	Pavt Mrkg, Ovly Cold Plastic, 12 inch, White	Ft	\$5.49
8110043	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Yellow	Ft	\$5.56

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8110044	Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar	Ft	\$7.40
8110045	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	Ft	\$9.65
8110046	Pavt Mrkg, Ovly Cold Plastic, Ped	Ea	\$155.00
8110047	Pavt Mrkg, Ovly Cold Plastic, Xing	Ea	\$147.50
8110048	Pavt Mrkg, Ovly Cold Plastic, Yield	Ea	\$154.67
8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	\$93.15
8110050	Pavt Mrkg, Ovly Cold Plastic, Merge Arrow Symbol	Ea	\$180.93
8110051	Pavt Mrkg, Ovly Cold Plastic, Wrong Way Arrow Symbol	Ea	\$191.27
8110052	Pavt Mrkg, Ovly Cold Plastic, Accessible Symbol	Ea	\$240.00
8110056	Pavt Mrkg, Ovly Cold Plastic, Bike	Ea	\$140.28
8110057	Pavt Mrkg, Ovly Cold Plastic, Bike, Large Sym	Ea	\$95.00
8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	\$94.87
8110059	Pavt Mrkg, Ovly Cold Plastic, Bus	Ea	\$126.25
8110062	Pavt Mrkg, Ovly Cold Plastic, Lane	Ea	\$150.00
8110063	Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	Ea	\$126.87
8110064	Pavt Mrkg, Ovly Cold Plastic, Lt Turn Only	Ea	\$237.27
8110065	Pavt Mrkg, Ovly Cold Plastic, Merge	Ea	\$181.17
8110066	Pavt Mrkg, Ovly Cold Plastic, No Lt Turn	Ea	\$425.00
8110067	Pavt Mrkg, Ovly Cold Plastic, No Rt Turn	Ea	\$425.00
8110068	Pavt Mrkg, Ovly Cold Plastic, Only	Ea	\$123.17
8110069	Pavt Mrkg, Ovly Cold Plastic, Railroad Sym	Ea	\$346.69
8110070	Pavt Mrkg, Ovly Cold Plastic, Rt and Lt Turn Arrow Sym	Ea	\$198.75
8110071	Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	Ea	\$116.54
8110072	Pavt Mrkg, Ovly Cold Plastic, Rt Turn Only	Ea	\$155.00
8110073	Pavt Mrkg, Ovly Cold Plastic, Rt, Thru and Lt Turn Arrow	Ea	\$220.00
8110074	Pavt Mrkg, Ovly Cold Plastic, School	Ea	\$179.58
8110075	Pavt Mrkg, Ovly Cold Plastic, Stop	Ea	\$145.00
8110076	Pavt Mrkg, Ovly Cold Plastic, Thru and Lt Turn Arrow Sym	Ea	\$195.04
8110077	Pavt Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym	Ea	\$190.12
8110078	Pavt Mrkg, Ovly Cold Plastic, Thru Arrow Sym	Ea	\$91.23
8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	\$100.00
8110085	Pavt Mrkg, Ovly Cold Plastic, Lt Roundabout Arrow Sym	Ea	\$320.25
8110086	Pavt Mrkg, Ovly Cold Plastic, Thru & Lt Roundabout Arrow Sym	Ea	\$220.00
8110091	Pavt Mrkg, Polyurea, 4 inch, White	Ft	\$0.66
8110092	Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	\$0.71
8110093	Pavt Mrkg, Polyurea, 6 inch, Crosswalk	Ft	\$2.28
8110094	Pavt Mrkg, Polyurea, 6 inch, White	Ft	\$0.85
8110095	Pavt Mrkg, Polyurea, 6 inch, Yellow	Ft	\$0.81
8110096	Pavt Mrkg, Polyurea, 8 inch, White	Ft	\$1.75

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8110097	Pavt Mrkg, Polyurea, 8 inch, Yellow	Ft	\$4.95
8110098	Pavt Mrkg, Polyurea, Wrong Way Arrow Symbol	Ea	\$200.00
8110099	Pavt Mrkg, Polyurea, Accessible Symbol	Ea	\$80.00
8110100	Pavt Mrkg, Polyurea, Bike	Ea	\$95.00
8110101	Pavt Mrkg, Polyurea, Ped	Ea	\$100.00
8110102	Pavt Mrkg, Polyurea, Xing	Ea	\$350.00
8110103	Pavt Mrkg, Polyurea, Yield	Ea	\$185.00
8110104	Pavt Mrkg, Polyurea, Bike, Large Symbol	Ea	\$350.00
8110105	Pavt Mrkg, Polyurea, Bike, Small Symbol	Ea	\$112.50
8110106	Pavt Mrkg, Polyurea, Directional Arrow Symbol, Bike	Ea	\$95.00
8110107	Pavt Mrkg, Polyurea, Merge Arrow Symbol	Ea	\$197.50
8110108	Pavt Mrkg, Polyurea, 12 inch Cross Hatching, White	Ft	\$4.00
8110109	Pavt Mrkg, Polyurea, 12 inch Cross Hatching, Yellow	Ft	\$5.81
8110110	Pavt Mrkg, Polyurea, 12 inch, Crosswalk	Ft	\$4.32
8110111	Pavt Mrkg, Polyurea, 12 inch, White	Ft	\$1.50
8110112	Pavt Mrkg, Polyurea, 12 inch, Yellow	Ft	\$1.50
8110113	Pavt Mrkg, Polyurea, 18 inch, Stop Bar	Ft	\$7.95
8110114	Pavt Mrkg, Polyurea, 24 inch, Stop Bar	Ft	\$10.12
8110115	Pavt Mrkg, Polyurea, Sharrow Symbol	Ea	\$250.00
8110125	Pavt Mrkg, Regular Dry, 4 inch, White	Ft	\$0.42
8110126	Pavt Mrkg, Regular Dry, 4 inch, Yellow	Ft	\$0.42
8110127	Pavt Mrkg, Regular Dry, 6 inch, White	Ft	\$1.06
8110128	Pavt Mrkg, Regular Dry, 6 inch, Yellow	Ft	\$1.05
8110129	Pavt Mrkg, Regular Dry, 8 inch, White	Ft	\$0.90
8110130	Pavt Mrkg, Regular Dry, 8 inch, Yellow	Ft	\$1.00
8110131	Pavt Mrkg, Regular Dry, 12 inch, White	Ft	\$0.68
8110132	Pavt Mrkg, Regular Dry, 12 inch, Yellow	Ft	\$0.65
8110133	Pavt Mrkg, Regular Dry, 2nd Application, 4 inch, White	Ft	\$0.20
8110134	Pavt Mrkg, Regular Dry, 2nd Application, 4 inch, Yellow	Ft	\$0.32
8110135	Pavt Mrkg, Regular Dry, 2nd Application, 6 inch, White	Ft	\$0.23
8110136	Pavt Mrkg, Regular Dry, 2nd Application, 6 inch, Yellow	Ft	\$0.23
8110137	Pavt Mrkg, Regular Dry, 2nd Application, 8 inch, White	Ft	\$0.45
8110138	Pavt Mrkg, Regular Dry, 2nd Application, 8 inch, Yellow	Ft	\$0.50
8110139	Pavt Mrkg, Regular Dry, 2nd Application, 12 inch, White	Ft	\$0.46
8110140	Pavt Mrkg, Regular Dry, 2nd Application, 12 inch, Yellow	Ft	\$0.50
8110153	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	\$0.19
8110154	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	\$0.22
8110155	Pavt Mrkg, Sprayable Thermopl, 6 inch, White	Ft	\$0.25
8110156	Pavt Mrkg, Sprayable Thermopl, 6 inch, Yellow	Ft	\$0.23

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8110157	Pavt Mrkg, Sprayable Thermopl, 8 inch, White	Ft	\$0.68
8110158	Pavt Mrkg, Sprayable Thermopl, 8 inch, Yellow	Ft	\$0.70
8110159	Pavt Mrkg, Sprayable Thermopl, 12 inch, White	Ft	\$0.46
8110160	Pavt Mrkg, Sprayable Thermopl, 12 inch, Yellow	Ft	\$0.68
8110195	Pavt Mrkg, Thermopl, 4 inch, White	Ft	\$1.29
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	\$0.75
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	\$3.21
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	\$0.78
8110199	Pavt Mrkg, Thermopl, 6 inch, Yellow	Ft	\$2.75
8110200	Pavt Mrkg, Thermopl, 8 inch, White	Ft	\$1.25
8110201	Pavt Mrkg, Thermopl, 8 inch, Yellow	Ft	\$1.25
8110212	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	\$8.09
8110213	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ft	\$5.75
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	\$4.65
8110215	Pavt Mrkg, Thermopl, 12 inch, White	Ft	\$0.81
8110216	Pavt Mrkg, Thermopl, 12 inch, Yellow	Ft	\$3.61
8110217	Pavt Mrkg, Thermopl, 18 inch, Stop Bar	Ft	\$9.25
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	\$11.00
8110229	Pavt Mrkg, Waterborne, 3 inch, White	Ft	\$0.08
8110230	Pavt Mrkg, Waterborne, 3 inch, Yellow	Ft	\$0.08
8110231	Pavt Mrkg, Waterborne, 4 inch, White	Ft	\$0.12
8110232	Pavt Mrkg, Waterborne, 4 inch, Yellow	Ft	\$0.11
8110233	Pavt Mrkg, Waterborne, 6 inch, White	Ft	\$0.19
8110234	Pavt Mrkg, Waterborne, 6 inch, Yellow	Ft	\$0.16
8110235	Pavt Mrkg, Waterborne, 8 inch, White	Ft	\$0.15
8110236	Pavt Mrkg, Waterborne, 8 inch, Yellow	Ft	\$0.88
8110237	Pavt Mrkg, Waterborne, 12 inch, White	Ft	\$0.35
8110238	Pavt Mrkg, Waterborne, 12 inch, Yellow	Ft	\$0.30
8110251	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	Ft	\$0.12
8110252	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	Ft	\$0.12
8110253	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	Ft	\$0.16
8110254	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, Yellow	Ft	\$0.16
8110255	Pavt Mrkg, Waterborne, 2nd Application, 8 inch, White	Ft	\$0.13
8110256	Pavt Mrkg, Waterborne, 2nd Application, 8 inch, Yellow	Ft	\$0.13
8110257	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, White	Ft	\$0.27
8110258	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Yellow	Ft	\$0.28
8110293	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, Blue	Ft	\$0.69
8110294	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, White	Ft	\$0.40

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8110343	Rem Spec Mrkg	Sft	\$1.65
8110360	Pavt Mrkg, Wet Reflective Tape, 4 inch, White	Ft	\$3.49
8110361	Pavt Mrkg, Wet Reflective Tape, 6 inch, White	Ft	\$5.12
8110362	Pavt Mrkg, Wet Reflective Tape, 8 inch, White	Ft	\$8.00
8110363	Pavt Mrkg, Wet Reflective Tape, 12 inch, White	Ft	\$9.88
8110370	Pavt Mrkg, Wet Reflective Tape, 4 inch, Yellow	Ft	\$4.31
8110371	Pavt Mrkg, Wet Reflective Tape, 6 inch, Yellow	Ft	\$5.63
8110372	Pavt Mrkg, Wet Reflective Tape, 8 inch, Yellow	Ft	\$7.00
8110373	Pavt Mrkg, Wet Reflective Tape, 12 inch, Yellow	Ft	\$10.00
8110400	Pavt Mrkg, Polyurea, Bus	Ea	\$150.00
8110403	Pavt Mrkg, Polyurea, Lane	Ea	\$120.00
8110404	Pavt Mrkg, Polyurea, Lt & Rt Turn Arrow Sym	Ea	\$200.00
8110405	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	Ea	\$129.71
8110406	Pavt Mrkg, Polyurea, Lt Turn Only	Ea	\$295.00
8110407	Pavt Mrkg, Polyurea, Merge	Ea	\$175.00
8110408	Pavt Mrkg, Polyurea, No Lt Turn	Ea	\$300.00
8110409	Pavt Mrkg, Polyurea, No Rt Turn	Ea	\$300.00
8110410	Pavt Mrkg, Polyurea, Only	Ea	\$145.36
8110411	Pavt Mrkg, Polyurea, Railroad Sym	Ea	\$332.50
8110412	Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	Ea	\$132.71
8110413	Pavt Mrkg, Polyurea, Rt Turn Only	Ea	\$146.90
8110414	Pavt Mrkg, Polyurea, School	Ea	\$198.33
8110415	Pavt Mrkg, Polyurea, Stop	Ea	\$200.00
8110416	Pavt Mrkg, Polyurea, Thru & Lt Turn Arrow Sym	Ea	\$175.32
8110417	Pavt Mrkg, Polyurea, Thru & Rt Turn Arrow Sym	Ea	\$173.33
8110418	Pavt Mrkg, Polyurea, Thru Arrow Sym	Ea	\$87.50
8110419	Pavt Mrkg, Polyurea, Thru, Lt & Rt Turn Arrow Sym	Ea	\$250.00
8110470	Pavt Mrkg, Thermopl, Rumble Strip	Ft	\$8.10
8110480	Pavt Mrkg, Wet Retrflc Waterborne, 4 inch, White	Ft	\$0.53
8110481	Pavt Mrkg, Wet Retrflc Waterborne, 6 inch, White	Ft	\$0.75
8110482	Pavt Mrkg, Wet Retrflc Waterborne, 8 inch, White	Ft	\$1.25
8110483	Pavt Mrkg, Wet Retrflc Waterborne, 12 inch, White	Ft	\$1.60
8110484	Pavt Mrkg, Wet Retrflc Waterborne, 4 inch, Yellow	Ft	\$0.47
8110485	Pavt Mrkg, Wet Retrflc Waterborne, 6 inch, Yellow	Ft	\$1.25
8110486	Pavt Mrkg, Wet Retrflc Waterborne, 8 inch, Yellow	Ft	\$1.75
8110487	Pavt Mrkg, Wet Retrflc Waterborne, 12 inch, Yellow	Ft	\$2.21
8110490	Pavt Mrkg, Wet Retrflc Sprayable Thermopl. 4 inch, White	Ft	\$0.48
8110491	Pavt Mrkg, Wet Retrflc Sprayable Thermopl. 6 inch, White	Ft	\$0.75
8110492	Pavt Mrkg, Wet Retrflc Sprayable Thermopl. 8 inch, White	Ft	\$1.00

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8110493	Pavt Mrkg, Wet Retrlec Sprayable Thermopl. 12 inch, White	Ft	\$1.25
8110494	Pavt Mrkg, Wet Retrlec Sprayable Thermopl. 4 inch, Yellow	Ft	\$0.48
8110495	Pavt Mrkg, Wet Retrlec Sprayable Thermopl. 6 inch, Yellow	Ft	\$0.75
8110496	Pavt Mrkg, Wet Retrlec Sprayable Thermopl. 8 inch, Yellow	Ft	\$1.25
8110497	Pavt Mrkg, Wet Retrlec Sprayable Thermopl. 12 inch, Yellow	Ft	\$2.00
8110500	Pavt Mrkg, Wet Retrlec Polyurea, 4 inch, White	Ft	\$0.68
8110501	Pavt Mrkg, Wet Retrlec Polyurea, 6 inch, White	Ft	\$0.86
8110502	Pavt Mrkg, Wet Retrlec Polyurea, 8 inch, White	Ft	\$0.85
8110503	Pavt Mrkg, Wet Retrlec Polyurea, 12 inch, White	Ft	\$2.69
8110504	Pavt Mrkg, Wet Retrlec Polyurea, 4 inch, Yellow	Ft	\$0.72
8110505	Pavt Mrkg, Wet Retrlec Polyurea, 6 inch, Yellow	Ft	\$0.88
8110506	Pavt Mrkg, Wet Retrlec Polyurea, 8 inch, Yellow	Ft	\$3.00
8110507	Pavt Mrkg, Wet Retrlec Polyurea, 12 inch, Yellow	Ft	\$4.85
8110510	Pavt Mrkg, Wet Retrlec Modified Urethane, 4 inch, White	Ft	\$0.84
8110511	Pavt Mrkg, Wet Retrlec Modified Urethane, 6 inch, White	Ft	\$1.06
8110512	Pavt Mrkg, Wet Retrlec Modified Urethane, 8 inch, White	Ft	\$1.18
8110513	Pavt Mrkg, Wet Retrlec Modified Urethane, 12 inch, White	Ft	\$1.47
8110514	Pavt Mrkg, Wet Retrlec Modified Urethane, 4 inch, Yellow	Ft	\$0.77
8110515	Pavt Mrkg, Wet Retrlec Modified Urethane, 6 inch, Yellow	Ft	\$0.89
8110516	Pavt Mrkg, Wet Retrlec Modified Urethane, 8 inch, Yellow	Ft	\$1.40
8110517	Pavt Mrkg, Wet Retrlec Modified Urethane, 12 inch, Yellow	Ft	\$1.20
8110520	Pavt Mrkg, Wet Retrlec Thermoplastic, 4 inch, White	Ft	\$2.50
8110521	Pavt Mrkg, Wet Retrlec Thermoplastic, 6 inch, White	Ft	\$4.25
8110522	Pavt Mrkg, Wet Retrlec Thermoplastic, 8 inch, White	Ft	\$5.00
8110523	Pavt Mrkg, Wet Retrlec Thermoplastic, 12 inch, White	Ft	\$7.50
8110524	Pavt Mrkg, Wet Retrlec Thermoplastic, 4 inch, Yellow	Ft	\$2.50
8110525	Pavt Mrkg, Wet Retrlec Thermoplastic, 6 inch, Yellow	Ft	\$4.25
8110526	Pavt Mrkg, Wet Retrlec Thermoplastic, 8 inch, Yellow	Ft	\$5.00
8110527	Pavt Mrkg, Wet Retrlec Thermoplastic, 12 inch, Yellow	Ft	\$7.50
8110530	Pavt Mrkg, Modified Urethane, 6 inch, Crosswalk	Ft	\$1.95
8110531	Pavt Mrkg, Modified Urethane, 12 inch, Crosswalk	Ft	\$4.05
8110532	Pavt Mrkg, Modified Urethane, 24 inch, Stop Bar	Ft	\$12.00
8110533	Pavt Mrkg, Modified Urethane, 6 inch, Cross Hatching White	Ft	\$1.91
8110534	Pavt Mrkg, Modified Urethane, 12 inch, Cross Hatching White	Ft	\$1.95
8110535	Pavt Mrkg, Modified Urethane, 6 inch, Cross Hatching Yellow	Ft	\$1.91
8110536	Pavt Mrkg, Modified Urethane, 12 inch, Cross Hatching Yellow	Ft	\$2.95
8110537	Pavt Mrkg, Modified Urethane, 4 inch, White	Ft	\$0.68
8110538	Pavt Mrkg, Modified Urethane, 6 inch, White	Ft	\$0.90
8110539	Pavt Mrkg, Modified Urethane, 8 inch, White	Ft	\$1.02

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8110540	Pavt Mrkg, Modified Urethane, 12 inch, White	Ft	\$1.24
8110541	Pavt Mrkg, Modified Urethane, 4 inch, Yellow	Ft	\$0.74
8110542	Pavt Mrkg, Modified Urethane, 6 inch, Yellow	Ft	\$0.95
8110543	Pavt Mrkg, Modified Urethane, 8 inch, Yellow	Ft	\$1.50
8110544	Pavt Mrkg, Modified Urethane, 12 inch, Yellow	Ft	\$2.00
8120000	Traf Control Quality and Compliance Adjustment	Dlr	\$1.00
8120010	Barricade, Type III, High Intensity, Double Sided, Furn	Ea	\$68.11
8120011	Barricade, Type III, High Intensity, Double Sided, Oper	Ea	\$7.30
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	\$69.71
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	\$2.25
8120020	Barricade, Type III, High Intensity, Furn	Ea	\$72.43
8120021	Barricade, Type III, High Intensity, Oper	Ea	\$0.38
8120022	Barricade, Type III, High Intensity, Lighted, Furn	Ea	\$80.04
8120023	Barricade, Type III, High Intensity, Lighted, Oper	Ea	\$5.15
8120110	High Intensity Light, Type B, Furn	Ea	\$86.00
8120111	High Intensity Light, Type B, Oper	Ea	\$3.02
8120120	Lighted Arrow, Type A, Furn	Ea	\$306.00
8120121	Lighted Arrow, Type A, Oper	Ea	\$0.01
8120130	Lighted Arrow, Type B, Furn	Ea	\$298.00
8120131	Lighted Arrow, Type B, Oper	Ea	\$0.06
8120140	Lighted Arrow, Type C, Furn	Ea	\$416.33
8120141	Lighted Arrow, Type C, Oper	Ea	\$38.59
8120142	Lighted Arrow, Type C, Standby	Ea	\$450.00
8120170	Minor Traf Devices	LSUM	2.00% of Work Order
8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	\$0.61
8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	\$0.69
8120212	Pavt Mrkg, Longit, Water Blasting, 6 inch or less Width, Rem	Ft	\$0.76
8120213	Pavt Mrkg, Longit, Water Blasting, Greater than 6 inch Width, Rem	Ft	\$1.08
8120220	Pavt Mrkg, Type NR, Paint, 4 inch, White, Temp	Ft	\$0.39
8120221	Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp	Ft	\$0.32
8120230	Pavt Mrkg, Type NR, Tape, 4 inch, White, Temp	Ft	\$0.92
8120231	Pavt Mrkg, Type NR, Tape, 4 inch, Yellow, Temp	Ft	\$0.87
8120240	Pavt Mrkg, Type R, 4 inch, White, Temp	Ft	\$1.26
8120241	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	Ft	\$1.17
8120250	Plastic Drum, High Intensity, Furn	Ea	\$15.18
8120251	Plastic Drum, High Intensity, Oper	Ea	\$0.43
8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	\$392.26
8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	\$2.18

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8120310	Sign Cover	Ea	\$21.10
8120320	Sign Cover, Type 1	Ea	\$1,126.25
8120330	Sign, Portable, Changeable Message, Furn	Ea	\$2,251.78
8120331	Sign, Portable, Changeable Message, Oper	Ea	\$109.34
8120340	Sign, Type A, Temp, Prismatic, Furn	Sft	\$4.40
8120341	Sign, Type A, Temp, Prismatic, Oper	Sft	\$0.26
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	\$3.51
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	\$0.29
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	\$5.12
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	\$0.24
8120370	Traf Regulator Control	LSUM	1.75% of Work Order
8120390	TS, Temp, Detection, Furn	Ea	\$11,500.00
8120391	TS, Temp, Detection, Oper	Ea	\$250.50
8120400	TS, Temp, Furn	Ea	\$4,500.00
8120401	TS, Temp, Oper	Ea	\$1.00
8160100	Slope Restoration, Type A	Syd	\$2.22
8160101	Slope Restoration, Type B	Syd	\$2.78
8160102	Slope Restoration, Type C	Syd	\$2.82
8160103	Slope Restoration, Type D	Syd	\$7.89
8190005	Cable Pole, Intercn, Disman	Ea	\$100.00
8190006	Cable Pole, Sec, Disman	Ea	\$200.00
8190007	Cable Pole, Sec and Intercn, Disman	Ea	\$99.10
8190008	Cable Pole, TS and Intercn, Disman	Ea	\$100.00
8190009	Cable Pole, TS and Sec, Disman	Ea	\$115.19
8190010	Cable Pole, TS, Disman	Ea	\$115.65
8190011	Cable Pole, TS Sec and Intercn, Disman	Ea	\$102.75
8190015	Cable, Intercn, Rem	Ft	\$1.38
8190016	Cable, Rem	Ft	\$2.02
8190017	Cable, Sec, Rem	Ft	\$1.00
8190025	Conduit, DB, 1, 1/2 inch	Ft	\$8.26
8190026	Conduit, DB, 1, 1 1/4 inch	Ft	\$10.90
8190027	Conduit, DB, 1, 1 1/2 inch	Ft	\$6.98
8190028	Conduit, DB, 1, 2 1/2 inch	Ft	\$2.55
8190029	Conduit, DB, 1, 3 inch	Ft	\$9.98
8190030	Conduit, DB, 1, 4 inch	Ft	\$9.70
8190031	Conduit, DB, 2, 2 1/2 inch	Ft	\$10.00
8190032	Conduit, DB, 2, 3 inch	Ft	\$17.63
8190033	Conduit, DB, 2, 4 inch	Ft	\$13.03

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8190034	Conduit, DB, 3, 2 1/2 inch	Ft	\$12.00
8190035	Conduit, DB, 3, 3 inch	Ft	\$16.34
8190036	Conduit, DB, 3, 4 inch	Ft	\$49.30
8190038	Conduit, DB, 4, 3 inch	Ft	\$33.48
8190040	Conduit, Directional Bore, 1 inch	Ft	\$10.00
8190041	Conduit, Directional Bore, 1 1/2 inch	Ft	\$20.00
8190042	Conduit, Directional Bore, 2 inch	Ft	\$15.63
8190043	Conduit, Directional Bore, 2 1/2 inch	Ft	\$16.00
8190044	Conduit, Directional Bore, 3 inch	Ft	\$17.04
8190045	Conduit, Directional Bore, 3 1/2 inch	Ft	\$16.00
8190046	Conduit, Directional Bore, 4 inch	Ft	\$15.27
8190140	Conduit, Rem	Ft	\$2.29
8190240	Hh, Abandon	Ea	\$20.00
8190242	Hh, Access	Ea	\$300.00
8190244	Hh, Adj	Ea	\$310.05
8190259	Hh, Round, 3 foot Dia.	Ea	\$2,188.73
8190260	Hh, Round	Ea	\$922.79
8190261	Hh, Square	Ea	\$125.00
8190375	Cable, P.J., 600V, 1, 3/C#10	Ft	\$3.80
8190376	Cable, P.J., 600V, 1, 7/C#10	Ft	\$3.50
8190377	Cable, P.J., 600V, 1, 7/C#14	Ft	\$3.53
8190382	Cable, P.J., 600V, 1, 12/C#14	Ft	\$3.28
8190384	Cable, P.J., 600V, 1, 14/C#14	Ft	\$5.00
8190385	Cable, P.J., 600V, 1, 19/C#14	Ft	\$6.00
8190386	Cable, P.J., 600V, 1, 20/C#14	Ft	\$8.07
8190392	Cable, Sec, 600V, 1, 2/C#2	Ft	\$6.00
8190393	Cable, Sec, 600V, 1, 3/C#2	Ft	\$6.08
8190394	Cable, Sec, 600V, 1, 2/C#4	Ft	\$6.00
8190395	Cable, Sec, 600V, 1, 3/C#4	Ft	\$4.63
8190396	Cable, Sec, 600V, 1, 2/C#6	Ft	\$4.50
8190397	Cable, Sec, 600V, 1, 2/C#10	Ft	\$8.00
8190399	Cable, Sec, 600V, 1, 3/C#6	Ft	\$4.00
8190402	Cable, Sec, 600V, 2, 1/C#2	Ft	\$6.48
8190403	Cable, Sec, 600V, 3, 1/C#2	Ft	\$7.00
8190404	Cable, Sec, 600V, 2, 1/C#4	Ft	\$4.01
8190405	Cable, Sec, 600V, 3, 1/C#4	Ft	\$5.31
8190406	Cable, Sec, 600V, 2, 1/C#6	Ft	\$2.54
8190407	Cable, Sec, 600V, 3, 1/C#6	Ft	\$3.26
8190418	Cable, Sec, Triplex, 1, 3/C#4	Ft	\$6.00

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8190425	Cable, Shielded, 600V, 1, 2/C#12, Intercn	Ft	\$1.91
8190465	Wood Pole	Ea	\$1,147.92
8190470	Wood Pole, Cl 2, 25 foot	Ea	\$826.98
8190471	Wood Pole, Cl 4, 30 foot	Ea	\$955.51
8190472	Wood Pole, Cl 4, 35 foot	Ea	\$733.33
8190473	Wood Pole, Cl 4, 40 foot	Ea	\$500.00
8190474	Wood Pole, Cl 4, 45 foot	Ea	\$812.00
8190475	Wood Pole, Cl 4, 50 foot	Ea	\$1,268.50
8190476	Wood Pole, Cl 4, 55 foot	Ea	\$1,500.00
8190477	Wood Pole, Cl 4, 60 foot	Ea	\$1,949.00
8190478	Wood Pole, Cl 4, 65 foot	Ea	\$1,800.00
8190479	Wood Pole, Cl 4, 70 foot	Ea	\$2,289.01
8190488	Wood Pole, Fit Up, Intercn Cable Pole	Ea	\$450.00
8190489	Wood Pole, Fit Up, Metered Sec Elec Serv	Ea	\$480.00
8190494	Wood Pole, Fit Up, Sec and Intercn Cable Pole	Ea	\$820.00
8190496	Wood Pole, Fit Up, Sec Serv Pole	Ea	\$796.25
8190499	Wood Pole, Fit Up, TS and Intercn Cable Pole	Ea	\$439.50
8190500	Wood Pole, Fit Up, TS and Sec Cable Pole	Ea	\$499.63
8190501	Wood Pole, Fit Up, TS Cable Pole	Ea	\$482.28
8190502	Wood Pole, Fit Up, TS, Sec and Intercn Cable Pole	Ea	\$400.00
8190505	Wood Pole, Rem	Ea	\$181.13
8190516	Steel Pole, Fit Up, TS Cable Pole	Ea	\$500.00
8190520	Bracket Arm, Clamp On, Rem	Ea	\$100.00
8190521	Bracket Arm, Clamp On, 6 Foot, with 3 Foot Rise	Ea	\$668.54
8190601	Conduit, Directional Bore, 1, 1 1/2 inch	Ft	\$23.24
8190602	Conduit, Directional Bore, 1, 3 inch	Ft	\$16.59
8190603	Conduit, Directional Bore, 1, 4 inch	Ft	\$23.13
8190604	Conduit, Directional Bore, 2, 3 inch	Ft	\$23.49
8190605	Conduit, Directional Bore, 2, 4 inch	Ft	\$26.89
8190606	Conduit, Directional Bore, 3, 3 inch	Ft	\$16.97
8190607	Conduit, Directional Bore, 4, 3 inch	Ft	\$17.14
8200001	Anchor Guy	Ea	\$300.00
8200002	Pole Guy	Ea	\$623.00
8200003	Case Sign Panel	Ea	\$153.14
8200004	Case Sign Panel, Rem	Ea	\$71.03
8200006	Case Sign, One Way, 12 inch by 27 inch, Salv	Ea	\$149.00
8200008	Case Sign, Two Way, 24 inch by 30 inch, Salv	Ea	\$1,151.28
8200010	Case Sign, Two Way, 36 inch by 36 inch, Salv	Ea	\$435.94
8200012	Case Sign, Four Way, 12 inch by 27 inch, Salv	Ea	\$450.00

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8200014	Case Sign, Four Way, 24 inch by 30 inch, Salv	Ea	\$450.00
8200015	Case Sign, Disappearing Legend, 24 inch by 30 inch	Ea	\$3,842.17
8200016	Case Sign, Disappearing Legend, 24 inch by 30 inch, Salv	Ea	\$467.00
8200017	Case Sign (LED), Changeable Message, One Way, 24 inch by 30	Ea	\$1,890.00
8200018	Case Sign (LED), Changeable Message, Two Way, 24 inch by 30	Ea	\$3,000.00
8200019	Case Sign (LED), One Way, 12 inch by 27 inch	Ea	\$1,500.00
8200020	Case Sign, Rem	Ea	\$91.72
8200021	Case Sign (LED), Four Way, 12 inch by 27 inch	Ea	\$2,500.00
8200022	Case Sign (LED), Two Way, 24 inch by 30 inch	Ea	\$2,289.33
8200023	Case Sign (LED), Four Way, 24 inch by 30 inch	Ea	\$2,680.00
8200024	Case Sign (LED), Two Way, 36 inch by 36 inch	Ea	\$2,500.00
8200029	Case Sign (LED), One Way, 24 inch by 30 inch	Ea	\$1,816.63
8200030	Controller and Cabinet, Rem	Ea	\$137.33
8200031	Controller and Cabinet, Digital Type	Ea	\$18,904.48
8200033	Controller and Cabinet, Digital Type, Master	Ea	\$23,963.00
8200037	Controller and Cabinet, Salv	Ea	\$636.24
8200039	Case Sign, Salv	Ea	\$503.57
8200042	Case Sign (LED), Disappearing Legend, One Way, 24 inch by 30	Ea	\$3,258.04
8200045	Controller Fdn, Base Mount	Ea	\$1,466.17
8200046	Controller Fdn, Rem	Ea	\$250.00
8200050	Global Positioning System Module	Ea	\$1,279.74
8200053	Global Positioning System Module, Rem	Ea	\$100.00
8200054	Global Positioning System Module, Salv	Ea	\$200.00
8200055	Digital Loop Detector	Ea	\$382.75
8200056	Digital Loop Detector, Salv	Ea	\$150.00
8200065	Fdn, Rem	Ea	\$604.71
8200069	Flsh Beacon, Controller and Cabinet, Solid State, Salv	Ea	\$825.00
8200070	Flsh Beacon, Controller and Cabinet, Solid State	Ea	\$1,475.68
8200071	Flsh Beacon, Solar Power	Ea	\$5,000.00
8200072	Flsh Beacon, Solar Power, Rem	Ea	\$300.00
8200073	Flsh Beacon, Solar Power, Dual	Ea	\$8,700.00
8200074	Flsh Beacon, Solar Power, Dual, Rem	Ea	\$400.00
8200080	Louver	Ea	\$266.67
8200090	Metered Serv	Ea	\$625.00
8200095	Metered Serv, Rem	Ea	\$100.00
8200100	Pedestal, Alum	Ea	\$654.82
8200101	Pedestal, Alum, Salv	Ea	\$170.00
8200102	Pushbutton Pedestal, Alum, Salv	Ea	\$2,500.00
8200103	Pedestal Fdn, Flush	Ea	\$861.50

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8200105	Pedestal, Fdn	Ea	\$773.59
8200106	Pedestal Fdn, Rem	Ea	\$162.84
8200110	Pedestal, Rem	Ea	\$64.13
8200111	Pedestal, Underground Serv, Metered	Ea	\$1,105.56
8200112	Pedestal, Underground Serv, Unmetered	Ea	\$860.70
8200113	Pedestal, Underground Serv, Rem	Ea	\$150.00
8200116	Power Co. (Est. Cost to Contractor)	Dlr	\$1.00
8200120	Pushbutton	Ea	\$732.75
8200121	Pushbutton and Sign	Ea	\$448.56
8200122	Pushbutton, Rem	Ea	\$50.67
8200123	Pushbutton Pedestal, Alum	Ea	\$511.04
8200124	Pushbutton Pedestal, Rem	Ea	\$790.00
8200125	Riser	Ea	\$100.00
8200126	Pushbutton and Sign, Salv	Ea	\$330.02
8200127	Push Button Station	Ea	\$750.00
8200128	Push Button Station and Sign	Ea	\$850.00
8200129	Push Button Station, Rem	Ea	\$100.00
8200135	Serv Disconnect	Ea	\$917.95
8200136	Serv Disconnect, Rem	Ea	\$101.26
8200138	Serv Disconnect, Salv	Ea	\$1,200.00
8200140	Span Wire	Ea	\$704.49
8200141	Span Wire, Rem	Ea	\$128.65
8200142	Span Wire Tether	Ea	\$543.50
8200145	Steel Pole, Rem	Ea	\$249.10
8200146	Steel Pole, Rem (Embedded)	Ea	\$578.10
8200167	Guy, Rem	Ea	\$82.37
8200168	Strut Guy	Ea	\$495.97
8200170	Traf Loop	Ea	\$1,205.64
8200171	Traf Loop, Presence	Ea	\$1,521.50
8200172	Traf Loop, Calling	Ea	\$937.50
8200173	Loop Detector, Rem	Ea	\$28.21
8200175	TS, Bracket Arm Mtd, Rem	Ea	\$108.37
8200176	TS, 4th Level Arrow, Rem	Ea	\$60.02
8200177	TS, Mast Arm Mtd, Rem	Ea	\$99.48
8200179	TS, Pedestal Mtd, Rem	Ea	\$110.00
8200180	TS, Pedestrian, Bracket Arm Mtd, Rem	Ea	\$71.94
8200181	TS, Pedestrian, Pedestal Mtd, Rem	Ea	\$77.35
8200182	TS, Span Wire Mtd, Rem	Ea	\$97.83
8200183	Cabinet, Salv	Ea	\$450.00

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8200184	Cabinet, Rem	Ea	\$209.59
8200185	Riser, Rem	Ea	\$120.00
8200191	TS, One Way Span Wire Mtd, Salv	Ea	\$455.75
8200194	TS, One Way Span Wire Mtd, LTGA, Salv	Ea	\$450.00
8200196	TS, One Way Span Wire Mtd, RTGA, Salv	Ea	\$450.00
8200198	TS, One Way Span Wire Mtd, STGA, Salv	Ea	\$450.00
8200201	TS, Two Way Span Wire Mtd, Salv	Ea	\$405.00
8200206	TS, Three Way Span Wire Mtd, Salv	Ea	\$447.00
8200208	TS, Four Way Span Wire Mtd, Salv	Ea	\$250.00
8200216	TS, 4th Level, LTGA, Salv	Ea	\$127.88
8200218	TS, 4th Level, RTGA, Salv	Ea	\$127.88
8200221	TS, One Way Bracket Arm Mtd, Salv	Ea	\$513.23
8200223	TS, Two Way Bracket Arm Mtd, Salv	Ea	\$513.23
8200226	TS, Pedestrian, One Way Bracket Arm Mtd, Salv	Ea	\$456.38
8200228	TS, Pedestrian, Two Way Bracket Arm Mtd, Salv	Ea	\$388.66
8200231	TS, One Way Pedestal Mtd, Salv	Ea	\$292.19
8200233	TS, Two Way Pedestal Mtd, Salv	Ea	\$292.19
8200236	TS, Pedestrian, One Way Pedestal Mtd, Salv	Ea	\$409.67
8200238	TS, Pedestrian, Two Way Pedestal Mtd, Salv	Ea	\$261.46
8200240	Pedestrian Signal System, Accessible	Ea	\$4,250.00
8200241	Pedestrian Signal System, Accessible, Rem	Ea	\$100.00
8200251	TS, One Way Mast Arm Mtd, Salv	Ea	\$606.67
8200253	TS, Two Way Mast Arm Mtd, Salv	Ea	\$606.67
8200255	TS, Three Way Mast Arm Mtd, Salv	Ea	\$606.67
8200257	TS, Four Way Mast Arm Mtd, Salv	Ea	\$606.67
8200260	Warning Sign	Ea	\$750.00
8200261	Warning Sign, Rem	Ea	\$180.00
8200290	TS, One Way Span Wire Mtd, One Sect (LED)	Ea	\$508.67
8200291	TS, Two Way Span Wire Mtd, One Sect (LED)	Ea	\$832.25
8200292	TS, Three Way Span Wire Mtd, One Sect (LED)	Ea	\$1,500.00
8200293	TS, Four Way Span Wire Mtd, One Sect (LED)	Ea	\$2,000.00
8200301	TS, One Way Mast Arm Mtd, RTGA (LED)	Ea	\$439.00
8200304	TS, One Way Mast Arm Mtd, FYA (LED)	Ea	\$1,200.00
8200306	TS, One Way Span Wire Mtd (LED), Optic	Ea	\$4,373.32
8200313	TS, One Way Span Wire Mtd (LED)	Ea	\$800.69
8200314	TS, One Way Span Wire Mtd, FYA (LED)	Ea	\$981.00
8200315	TS, One Way Span Wire Mtd, Five Sect (LED)	Ea	\$1,375.00
8200316	TS, One Way Span Wire Mtd, LTGA (LED)	Ea	\$413.00
8200318	TS, One Way Span Wire Mtd, RTGA (LED)	Ea	\$650.00

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8200320	TS, One Way Span Wire Mtd, STGA (LED)	Ea	\$709.50
8200322	TS, Two Way Span Wire Mtd (LED)	Ea	\$1,436.21
8200324	TS, Two Way Span Wire Mtd, Five Sect (LED)	Ea	\$1,100.00
8200325	TS, Three Way Span Wire Mtd (LED)	Ea	\$1,856.00
8200327	TS, Four Way Span Wire Mtd (LED)	Ea	\$2,621.00
8200329	TS, 4th Level, LTGA (LED)	Ea	\$500.56
8200331	TS, 4th Level, RTGA (LED)	Ea	\$333.00
8200333	TS, One Way Bracket Arm Mtd (LED)	Ea	\$921.08
8200334	TS, One Way Bracket Arm Mtd, FYA (LED)	Ea	\$1,105.00
8200335	TS, Two Way Bracket Arm Mtd (LED)	Ea	\$1,316.00
8200336	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	Ea	\$946.37
8200339	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	Ea	\$1,433.07
8200345	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	Ea	\$923.06
8200347	TS, Pedestrian, Two Way Pedestal Mtd (LED) Countdown	Ea	\$1,399.76
8200354	TS, Lens, Pedestrian, Sym (LED)	Ea	\$200.00
8200359	TS, One Way Mast Arm Mtd (LED)	Ea	\$913.23
8200361	TS, Two Way Mast Arm Mtd (LED)	Ea	\$1,638.07
8200363	TS, Three Way Mast Arm Mtd (LED)	Ea	\$2,116.87
8200365	TS, Four Way Mast Arm Mtd (LED)	Ea	\$2,989.39
8200367	TS, Antenna	Ea	\$1,050.00
8200368	TS, Antenna, Rem	Ea	\$161.23
8200369	TS, Antenna, Salv	Ea	\$352.92
8200372	Sign Optical, Rem	Ea	\$42.50
8200373	Sign Optical, (LED)	Ea	\$500.00
8200374	Bracket, Truss, With 6 Foot Arm	Ea	\$507.00
8200375	Bracket, Truss, With 9 Foot Arm	Ea	\$1,102.72
8200376	Bracket, Truss, With 12 Foot Arm	Ea	\$600.00
8200377	Bracket, Truss, With 15 Foot Arm	Ea	\$700.00
8200378	Bracket, Truss, With 18 Foot Arm	Ea	\$761.93
8200379	Bracket, Truss, With 4 Foot Arm	Ea	\$500.00
8200380	Video Traffic Detection System	Ea	\$8,991.00
8200381	Video Traffic Detection Camera	Ea	\$3,649.00
8200382	Bracket, Truss, With 1.5 Foot Arm	Ea	\$350.00
8200383	Video Traffic Detection System, Rem	Ea	\$143.43
8200384	Video Traffic Detection Camera, Rem	Ea	\$262.22
8200385	Bracket, Truss, Salv	Ea	\$217.97
8200386	Video Traffic Detection Camera (Mini)	Ea	\$1,609.22
8200387	Video Traffic Detection System (Mini)	Ea	\$998.68
8200388	Bracket, Truss, Rem	Ea	\$236.67

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8200389	Wireless Intercn, Closed Loop, Salv	Ea	\$340.75
8200393	Wireless Intercn, Closed Loop, Master	Ea	\$3,826.83
8200394	Wireless Intercn, Closed Loop, Repeater	Ea	\$3,294.33
8200395	Wireless Intercn, Closed Loop, Remote	Ea	\$2,763.17
8200396	Wireless Intercn, Closed Loop, Rem	Ea	\$188.56
8200402	Detector, Microwave Vehicle	Ea	\$5,511.53
8200403	Detector, Microwave Vehicle, Rem	Ea	\$80.00
8200404	Detector, Microwave Vehicle, Salv	Ea	\$751.00
8200406	Ethernet Extension	Ea	\$618.13
8200407	Ethernet Extension, Rem	Ea	\$80.00
8200408	Ethernet Extension, Salv	Ea	\$100.00
8200409	Enclosure	Ea	\$91.38
8200410	Enclosure, Rem	Ea	\$80.00
8200411	Enclosure, Salv	Ea	\$100.00
8200415	Emergency Pre-emption, Rem	Ea	\$118.06
8200416	Emergency Pre-emption, Salv	Ea	\$750.45
8200418	Wireless Repeater, Rem	Ea	\$40.00
8200419	Wireless Repeater, Salv	Ea	\$135.00
8200421	Wireless Repeater	Ea	\$2,292.67
8200422	Wireless Vehicle Detection System	Ea	\$6,322.34
8200423	Wireless Vehicle Detection System, Rem	Ea	\$103.00
8200424	Wireless Vehicle Detection System, Salv	Ea	\$258.33
8200425	Wireless Vehicle Sensor Node	Ea	\$889.59
8200426	Wireless Vehicle Sensor Node, Rem	Ea	\$83.00
8200427	Wireless Vehicle Sensor Node, Salv	Ea	\$570.42
8200430	Case Sign, Four Way, 24 inch by 30 inch, Non-Illuminated	Ea	\$1,435.77
8200431	Case Sign, Non-Illuminated, Salv	Ea	\$810.00
8200432	Case Sign, Non-Illuminated, Rem	Ea	\$100.00
8200433	Case Sign, One Way, 12 inch by 27 inch, Non-Illuminated	Ea	\$1,100.00
8200434	Case Sign, One Way, 24 inch by 30 inch, Non-Illuminated	Ea	\$1,390.48
8200435	Case Sign, Two Way, 24 inch by 30 inch, Non-Illuminated	Ea	\$1,423.90
8200436	Case Sign, Two Way, 36 inch by 36 inch, Non-Illuminated	Ea	\$1,500.00
8200440	Vehicle Traffic Detection Camera, Salv	Ea	\$550.00
8200450	TS, Bag	Ea	\$193.75
8200451	TS, Bag, Rem	Ea	\$178.31
8200452	TS Head, Adj	Ea	\$200.00
8200453	TS Head, Temp	Ea	\$400.00
8200456	Junction Box, Span Wire	Ea	\$616.67
8200457	Junction Box, Rem	Ea	\$131.92

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8200460	Strain Pole, Steel, 6 Bolt, 30 foot	Ea	\$5,342.34
8200461	Strain Pole, Steel, 6 Bolt, 36 foot	Ea	\$6,971.72
8200462	Strain Pole, Steel, 6 Bolt, 40 foot	Ea	\$7,421.81
8200470	Strain Pole Fdn, 6 Bolt	Ft	\$429.12
8200480	Casing	Ft	\$119.90
8200490	Wireless Intercn, Sign Mtd Flasher, Master	Ea	\$3,525.00
8200491	Wireless Intercn, Sign Mtd Flasher, Repeater	Ea	\$4,025.00
8200492	Wireless Intercn, Sign Mtd Flasher, Remote	Ea	\$3,575.00
8200493	Wireless Intercn, Sign Mtd Flasher, Solar Power, Master	Ea	\$4,404.00
8200494	Wireless Intercn, Sign Mtd Flasher, Solar Power, Repeater	Ea	\$4,000.00
8200495	Wireless Intercn, Sign Mtd Flasher, Solar Power, Remote	Ea	\$3,376.00
8200496	Wireless Intercn, Sign Mtd Flasher, Rem	Ea	\$100.00
8200497	Wireless Intercn, Sign Mtd Flasher, Salv	Ea	\$200.00
8200500	TS Uninterruptible Power System	Ea	\$8,694.79
8200501	Backplate, TS	Ea	\$140.24
8200502	Backplate, TS, Rem	Ea	\$50.00
8200503	Backplate, TS, Salv	Ea	\$80.00
8200504	Sign, Changeable Message LED, Open-Closed	Ea	\$6,500.00
8200505	Sign, Changeable Message LED, Open-Closed, Rem	Ea	\$3,000.00
8207050	Hemispherical Video Detection Camera	Ea	\$3,171.25
8207050	Hemispherical Video Detection System	Ea	\$13,588.00
8207050	Hemispherical Video Detection Camera, Rem	Ea	\$100.00
8207050	Hemispherical Video Detection System, Rem	Ea	\$80.00
8207050	Hemispherical Video Detection Camera, Salv	Ea	\$751.00
8207050	Hemispherical Video Detection System, Salv	Ea	\$751.00
8207050	Pedestal Painting	Ea	\$500.00
8207050	Pole Coating	Ea	\$600.00
8207050	Radar Vehicle Presence Stop-Bar Detector Sensor	Ea	\$4,396.30
8207050	Radar Vehicle Presence Stop-Bar Detector Sensor, Rem	Ea	\$80.00
8207050	Radar Vehicle Presence Stop-Bar Detector Sensor, Salv	Ea	\$751.00
8207050	Radar Vehicle Presence Stop-Bar Detector System	Ea	\$2,773.50
8207050	Radar Vehicle Presence Stop-Bar Detector System, Rem	Ea	\$80.00
8207050	Radar Vehicle Presence Stop-Bar Detector System, Salv	Ea	\$751.00
8207050	Splice Box	Ea	\$2,400.00
8207050	Splice Box, Rem	Ea	\$136.00
8207050	Spread Footing Fdn, Signal	Ea	\$8,500.00
8207050	St Name Sign, Two Way, (LED), ___ foot	Ea	\$1,200.00
8207050	St Name Sign, One Way, (LED), ___ foot	Ea	\$900.00
8207050	Street Name Sign Bracket Arm, ___ Foot	Ea	\$1,200.00

ITEM NUMBER	PAY ITEM	PAY UNIT	FIXED UNIT PRICE
8207050	TS, Managed Field Ethernet Switch, Layer 2, Copper	Ea	\$1,000.00
8207050	TS, One Way Mast Mtd (LED), Optic	Ea	\$2,000.00
8207050	TS, Wireless Link, (frequency), (type)	Ea	\$2,000.00
8207050	Video Traffic Detection Camera, Salv	Ea	\$751.00
8207050	Video Traffic Detection Camera, Span Wire Mtd	Ea	\$2,687.50
8207050	Video Traffic Detection Camera, Span Wire Mtd, Rem	Ea	\$80.00
8207050	Video Traffic Detection Camera, Span Wire Mtd, Salv	Ea	\$751.00
8207050	Video Traffic Detection System, Salv	Ea	\$751.00
8230096	Hydrant, Relocate, Case 2	Ea	\$2,800.00
8230381	Water Shutoff, Adj, Temp, Case 1	Ea	\$303.11
8230382	Water Shutoff, Adj, Temp, Case 2	Ea	\$187.42
8230391	Gate Box, Adj, Temp, Case 1	Ea	\$338.64
8230392	Gate Box, Adj, Temp, Case 2	Ea	\$292.20
8230421	Water Shutoff, Adj, Case 1	Ea	\$287.44
8230422	Water Shutoff, Adj, Case 2	Ea	\$301.29
8230431	Gate Box, Adj, Case 1	Ea	\$308.43
8230432	Gate Box, Adj, Case 2	Ea	\$239.34
8240001	Contractor Staking	LSUM	2.00% of Work Order
8240007	Contractor Staking, Road Only	LSUM	2.00% of Work Order
8240020	Staking Plan Errors and Extras, One Person	Hr	0.05% of Work Order
8240021	Staking Plan Errors and Extras, Two Person	Hr	0.02% of Work Order
8240022	Staking Plan Errors and Extras, Three Person	Hr	0.03% of Work Order

**ATTACHMENT B: Special Provision for Preparation Delivery and Consideration of Bids
on Job Order Contracting Projects**

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
**PREPARATION, DELIVERY, AND CONSIDERATION OF BIDS ON JOB ORDER
CONTRACTING PROJECTS**

DES:MAD

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The Department will receive and compare bids according to the process described in this special provision to determine the low Bidder for this project.

Delete subsections 102.02.A, 102.02.B and 102.02.C, on page 16 of the Standard Specifications for Construction, in its entirety and replace it with the following:

- A. General location and description of the contemplated work.
- B. Master list of items that could be included in each work order.
- C. List of fixed pre-priced construction items for which a proposed adjustment factor is invited.

Delete subsection 102.03, on page 16 of the Standard Specifications for Construction, in its entirety and replace it with the following:

The Department will use the process described in the Special Provision for Preparation, Delivery, and Consideration of Bids on Job Order Contracting Projects and the modifications to the Standard Specifications for Construction contained therein to determine the low Bidder for this project.

Delete subsection 102.04, on page 16 of the Standard Specifications for Construction, in its entirety and replace it with the following:

102.04 Examination of Proposal, and Specifications. Prior to submitting a bid, the Bidder must:

- A. Examine the proposal, specifications, and construction items.
- B. Upon discovery of uncertainties, inconsistencies, errors, omissions, or conflicts during the examination proposal, specifications, and construction items, notify the Department representative identified in the proposal using Department-approved procedures.
- C. Be familiar with all requirements of federal, state, and local laws, ordinances, and permits that may directly, or indirectly, affect performance of the work.

The Department considers the submission of a bid proposal as prima facie evidence that the Bidder examined the proposal, specifications, and construction items, and understands the requirements of the proposal package.

Delete subsection 102.06.A.1, on page 17 of the Standard Specifications for Construction, in its entirety and replace it with the following:

1. The bid does not contain a unit price for each pay item listed in the Unit Prices column

or lump sum price in the bid amounts column, as applicable. While a blank space is unacceptable, the explicit quotation of zero does constitute a price and, the Department will use the product of the fixed price for the construction item and the adjustment factor submitted.

Add subsection 102.06.A.6, on page 18 of the Standard Specifications for Construction, with the following:

6. The bidder fails to provide the adjustment factor.

Delete the first paragraph of subsection 102.07, on page 19 of the Standard Specifications for Construction, in its entirety and replace it with the following:

102.07. Delivery of Bid. The bidder must submit the bid and one adjustment factor using current Department software and before the deadline specified in the proposal. The bidder must provide the adjustment factor at the time of bid within the Adjustment Factor folder of the Expedite Bid file.

The Adjustment Factor should be provided to three (3) decimal places and entered as shown in Table 102-1.

Table 102-1: Adjustment Factor Example
1.198
or
0.987

The Adjustment Factors in Table 1 are for example purposes only and are not an indication of factors being bid by the Bidder.

The contract unit price for each pay item will be the product of the fixed unit price for each pay item and the Adjustment Factor submitted by the Bidder. The Bidder shall bid one Adjustment Factor to be applied uniformly to all the fixed unit prices in Table 2 of the Special Provision for Traffic Signal Installation on Job Order Contracting Projects.

Delete subsection 102.09, on page 19 of the Standard Specifications for Construction, in its entirety and replace with the following:

102.09. Downloading of Bids. The Department will download the bids and adjustment factor and display the total bid amount and adjustment factor of each bid on the Department's website as "As Submitted" bid results. If a Bidder has a system-generated receipt of submission and the Department did not receive the bid, the Department may accept a bid after the deadline in accordance with Department procedures and pending an investigation. The Department will handle these situations on a case-by-case basis.

Delete the first paragraph of subsection 102.13, on page 21 of the Standard Specifications for Construction, in its entirety and replace it with the following:

The low Bidder will be determined based on the following criteria.

A. The Department will compare the bids on the basis of the total bid amounts (The sum of the lump sum amounts and the products of the fixed price for construction items and

the adjustment factor). The Bidder that bids the lowest adjustment factor will be the low bidder. For a discrepancy between the calculated total, and the total shown in the bid, the Department will use the product of fixed price for the construction items in the proposal and the adjustment factor submitted by the Bidder and MDOT will correct the unit prices entered in the bid.

B. In the event that two or more Bidders are tied after subsection 102.13.A is evaluated, the Department will request an adjusted adjustment factor from each of the tied Bidders. Adjustment factors cannot be greater than the original adjustment factor. The Bidder with the lowest adjustment factor will be the low Bidder.

C. In the event that two or more Bidders are tied after subsection 102.13.B is evaluated, the low Bidder will be determined by drawing names from a container. The following rules apply:

1. Each of the tied Bidders will provide a representative to witness the drawing. The representative must have the authority to sign an agreement.
2. The names of the tied Bidders will be written on separate and identical pieces of paper and be placed in a container provided by the Department.
3. A representative of the Department will draw a single piece of paper from the container. The Bidder that is drawn from the container will be the low Bidder. The drawing constitutes the final decision of the Department and is not subject to further contest or appeal.

Delete subsection 102.14, on page 22 of the Standard Specifications for Construction, in its entirety and replace with the following:

102.14. Construction Progress Schedule. In addition to any progress clause in the proposal, the Department will require the determined low Bidder to submit a progress schedule after notification of a work order and perform work per that schedule in accordance with subsection 108.05.

Delete subsection 103.02.B, on page 26 of the Standard Specifications for Construction, in its entirety.

Delete subsection 105.01.B, on page 48 of the Standard Specifications for Construction, in its entirety and replace with the following:

B. Upon issuance of a work order, provide the information requested on the Department's Materials Source List (Form 0501) for the materials to be used in the work.

Delete the first paragraph of subsection 108.05.B, on page 75 of the Standard Specifications for Construction, in its entirety and replace with the following:

B. The Contractor must not begin work until after they are provided with a work order. After the Department notifies the Contractor of the work order, the Contractor must perform the work according to the approved progress schedule and with sufficient resources to adequately complete the work within the approved time for each work order.

Delete the second, third, and fourth paragraphs of subsection 150.04, on page 107 and 108 of the Standard Specifications for Construction, in its entirety and replace with the following:

The Department will pay for **Mobilization Max** ___ for each Work Order at a rate of 10% of the original amount of each Work Order. The Department will pay the Contractor for **Mobilization, Max** ___ in accordance with Table 150-1. The percent of the Work Order amount earned is exclusive of the **Mobilization, Max** ___ pay item.

Table 150-1 Partial Payment Schedule for Mobilization	
Percent of Work Order Amount Earned	Percent of Amount for Mobilization, Max ___
5	50
10	75
25	100

When the percentage of the first work order amount earned is less than 5% on the partial payment schedule, the Department will pay the Contractor for costs of project specific bonding, insurances, and permits when proof of payment is received and accepted by the Engineer. The Engineer will then subtract these costs from the amount for **Mobilization, Max** ___.

The total sum of all payments for this item will not exceed the Work Order amount for **Mobilization, Max** ___, regardless of the following conditions.

- A. The Contractor shut down the work on the project for any reason;
- B. The Contractor moved equipment away from the project and then back again; or
- C. The Department added additional quantities or items of work to the contract.

ATTACHMENT C: Special Provision for Mandatory Pre-Bid Meeting

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
MANDATORY PRE-BID MEETING

DES:MAD

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a. Description. All bidders must provide an employee of the Bidder to attend a mandatory pre-bid meeting. Bidders that do not attend the mandatory pre-bid meeting will not be considered eligible to bid on the project. The date, time, place, and purpose of the meeting are specified below:

1. Date. (insert date)
2. Time. (insert time)
3. Place. Michigan Department of Transportation
Operations Field Services
6333 Lansing Road
Lansing, Michigan 48917
4. The purpose of this meeting is to give an overview of the project and the unique aspects involved with this project including, but not limited to, the job order contracting delivery method, bidding procedure, work order process, and construction schedule as it relates to the progress clause. A representative of each bidding contractor must attend the mandatory pre-bid meeting. Subcontractors are strongly encouraged to attend. All questions asked during the mandatory pre-bid meeting will be recorded and answers will be posted as a Notice to Bidders Inquiry Response. The list of prime contractors who attended the mandatory pre-bid meeting will be posted in the RID after the mandatory pre-bid meeting is held.

b. Materials. None specified.

c. Construction. None specified.

d. Measurement and Payment. None specified.