



**CITY OF LEE'S SUMMIT, MISSOURI  
220 S.E. GREEN STREET  
LEE'S SUMMIT, MISSOURI 64063  
(816) 969-1800**

**PUBLIC WORKS ENGINEERING DIVISION**

***Ward Road Improvements (Phase 1):  
NW Blue Pkwy to NW O'Brien Rd  
Federal Project No. TAP-  
3001(015) City Project  
No. 599***

***ADDENDUM NO. 1***

The original Request for Bid for ***Ward Road Improvements (Phase 1): NW Blue pkwy to NW O'Brien Rd***, remains in effect except as revised by the following changes, which shall take precedence over anything to the contrary in the contract instruments, drawings, or technical specifications.

**CONTRACT DOCUMENTS AND DRAWINGS:**

The Documents and Drawings for the above referenced project dated September 2024 are hereby amended in the following particulars only; all other conditions remain unchanged.

The following changes are in effect:

Project Manual:

1. Division 2 – Technical Specifications - Project Special Provisions add 2602.4
2. Division 2 – Technical Specifications Job Special Provisions – MoDOT issued DBE changes – refer to the attached USDOT Interim Final Rule, dated October 7, 2025. The DBE Goal is set to 0%, 1 Trainee.
3. Remove *Form C520 Agreement Between Owner and Contractor for Construction Contract (Stipulated Price)* and replace with the attached *Form C520 Agreement Between Owner and Contractor for Construction Contract (Stipulated Price)* (Exhibit A to Addendum No. 1). Changes made to Article 5 - Contract Price include:
  - a. Line item 91 *Preformed Thermoplastic Pavement Marking (4" White)* has been replaced with *High-Build Paint Pavement Marking (4" White)*.
  - b. Quantity for line item 91 *High-Build Paint Pavement Marking (4" White)* has been increased to 320 Lin. Ft.
  - c. Line item 91a *High-Build Paint Pavement Marking (6" White)* has been added.
  - d. Quantity for line item 92 *Preformed Thermoplastic Pavement Marking (6" White)* has been reduced to 302 Lin. Ft.
  - e. Quantity for line item 98 *Flat Sheet Signs* increased to 326 Sq. Ft.

4. Remove *Section 01120 Measurement and Payment* and replace with the attached *Section 01120 Measurement and Payment* (Exhibit B to Addendum No. 1). Changes made to Part 1 – Pay Items (In Numerical Order) include:
  - a. Measurement and Payment for line item 91 *Preformed Thermoplastic Pavement Marking (4" White)* has been replaced with *High Build Paint Pavement Marking (4" White)*.
  - b. Measurement and Payment for line item 91a *High Build Paint Pavement Marking (6" White)* has been added.

Drawings:

1. Replace Sheet 3 with the attached Sheet 3 (Exhibit C to Addendum No. 1). Changes made include:
  - a. Line Item 91 Description Modified from *Preformed Thermoplastic Pavement Marking (4" White)* to *High Build Paint Pavement Marking (4" White)*.
  - b. Line item 91a *High-Build Paint Pavement Marking (6" White)* has been added.
  - c. Quantity for line item 92 *Preformed Thermoplastic Pavement Marking (6" White)* has been reduced to 302 Lin. Ft.
  - d. Quantity for line item 98 *Flat Sheet Signs* increased to 326 Sq. Ft.
2. Replace Sheet 112 with the attached Sheet 112 (Exhibit D to Addendum No. 1). Changes made include:
  - a. Pavement Marking and Signing Note 3 modified to read *Linear/Diagonal pavement markings shall be high-build paint. Crosswalk, stop lines, dashed lines, and symbols shall be pre-formed thermoplastic.*

Each bidder shall acknowledge receipt of this **Addendum No. 1 of Federal Project No. TAP-3001(015) and City Project No. 599 and Ward Road Improvements – NW Blue Parkway to NW O'Brien Road** by his/her signature affixed hereto, and shall attach this Addendum to the original bid submitted. **Failure to sign and submit this addendum could render your bid nonresponsive.**

CERTIFICATION BY BIDDER:

Signature \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_

## STORM SEWERS

### SECTION 2600 - STORM SEWERS

#### CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS

The City of Lee's Summit, Missouri hereby adopts Section 2600 of the Kansas City Metropolitan Chapter of APWA Construction and Material Specifications, current edition. The following additions, deletions and/or revisions are adopted as a part of Section 2600 for use within Lee's Summit, Missouri.

#### 2602.2 Materials

Delete Paragraph B and replace with the following:

***Corrugated metal pipe shall not be used in the construction of public infrastructure. Storm drainage systems to remain privately owned and maintained may use corrugated Aluminized Steel Pipe***

#### 2602.2 Materials:

ADD the following

#### ***G. Polypropylene Pipe***

- 1. Double wall polypropylene pipe shall have a smooth interior and annular exterior corrugations and conform to ASTM F2881 and AASHTO M330. Triple wall polypropylene pipe shall have smooth interior and exterior surfaces with inner corrugations and conform to ASTM F 2764. The pipe shall not be perforated unless otherwise specified.***
- 2. Pipe shall be joined with a gasketed integral bell and spigot joint meeting the requirements of ASTM F2881 for double wall pipe or ASTM F2764 for triple wall pipe.***
- 3. Coupling bands shall cover at least two full corrugations on each section of pipe and shall prevent the infiltration of soil into the pipe.***

#### 2602.3 Construction:

#### 2602.3.B.5.d Structure Connections – Laying and Jointing

REVISE to read as follows:

Pipes connected to structures shall be cut parallel with the inside face of the structure for structures having plane walls and parallel with the spring line of the pipe for structures having curved walls. Projection of the pipe beyond the inside face shall not exceed **3 inches** (measured at the springline for structures having curved walls). ***When installed, all gaps and openings intended to be closed, shall be sealed with grout, concrete or other approved material.***

***Add the following:***

**[2602.4 Performance Inspection, Performance Report and Evaluation.](#)**

## STORM SEWERS

2602.4.1 The Contractor shall conduct either manual performance inspection or remote performance inspection along with performance reporting and evaluation as it relates to this specification.

2602.4.2 The contractor shall notify the Engineer at least five workdays before conducting a performance inspection. The inspection shall be performed no sooner than 30 days after the completion of the finished grade when not below pavement and after the completion of the aggregate base when any portion of the culvert pipe is below pavement. The condition of the culvert pipe shall allow for an accurate inspection. The contractor shall inspect the entire length of the pipe for each storm sewer or culvert pipe installation.

2602.4.3 The actual inside diameter of flexible pipe products shall be determined for the purposes of measuring deflection by averaging nine equally spaced measurements at one location in the barrel of an unloaded pipe. If the pipe has a corrugated interior, the measurements shall be from the top of corrugation to top of corrugation as viewed from the inside of the pipe.

2602.4.4 The contractor shall furnish a video recording of each inspection. The recording shall identify the date and time of the inspection, a description of the culvert pipe, the location, and the viewing direction. The recording shall be for the entire run of the culvert pipe being inspected. The contractor shall provide sufficient source of light to allow all areas of concern to be readily observed on the video recording in a digital, reproducible format to be delivered on a media type approved by the engineer.

2602.4.5 **Manual Inspection.** For rigid culvert pipe, perform a manual inspection by entering the culvert pipe to record video and to make measurements. Culverts should be entered only by inspection personnel trained in working with confined spaces and using procedures in full compliance with applicable State, Local and Federal OSHA regulations. The manual inspection shall include the following at a minimum:

- a) Measure crack width using a crack comparator, micrometer or a feeler gage capable of measuring 0.01 inch. Other measuring devices may be used if approved by the Engineer. Record the measurements and include them in the written inspection performance report including: document the location, length, width and greatest width of each crack exceeding 0.01 inch. For all culvert pipe, measure and record the widest gap at each joint in the run.
- b) Measure the location, length and greatest width of each crack and the widest gap at each culvert pipe entering a drainage structure or transition.

2602.4.6 **Remote Inspection.** In lieu of Manual Inspection, remote inspection may be used for all types of culvert pipe. Perform a remote inspection by using a crawler mounted camera with low barrel distortion to record video and that has the capacity to make measurements. In addition, deflection shall be measured by laser profiling and measuring technology. Laser profiling and measurement technology must be certified by the company performing the work to

**STORM SEWERS**

be in compliance with the calibration criteria per MoDOT TM 84. Reports shall be submitted by electronic media in a format approved by the Engineer.

**2602.4.7 Inspection Criteria.** Based on the type of culvert pipe, in the measurements and acceptance criteria shall be in accordance with the table below. Also record the location of any other defect not listed in the table and describe the defect. Potential defects include, but are not limited to damaged coatings, racking, dents, protrusions, misalignment of line or grade, slabbing, and excessive corrugating of thermoplastic pipe. For each measurement location in a culvert pipe, record the length from the left end of the pipe according to roadway stationing.

Inspection Criteria				
Pipe Type	Measurement Equipment	Type of Measurement	Limitations	Required Action
Rigid Culvert Pipe	Manual: video camera Remote: Crawler mounted camera with cracking measuring capability	Joint gaps	Soiltight in accordance with AASHTO R 82-17	Seal Joints with excessive gap
		Crack Widths	Greater than .01 inch less than 0.10 crack	Note for future evaluation
			Greater than 0.1 inch crack	Unacceptable
Flexible Culvert Pipe with Hydraulically Smooth Interior	Remote: Crawler mounted camera with cracking measuring capability	Joint gaps	Soiltight in accordance with AASHTO R 82-17	Seal joints with excessive gap
		Crack widths	None allowed	Unacceptable
		Deflection	Greater than 5% less than 7.5%	Replace deficient pipe or 50% of pay item for entire line
			Greater than 7.5%	Unacceptable

**2602.4.8 Performance Report.** The contractor shall provide a performance report for each performance inspection per drainage structure. Each report shall include:

- a) Project Location

## STORM SEWERS

- b) Date of performance inspection
- c) Type and size of culvert pipe including any transitions in pipe run
- d) Time of video recording
- e) Location (e.g. station and offset) and viewing direction
- f) Summary of all defects including type, measurement, and location
- g) For remote inspections using a crawler mounted camera with laser profiler, include:
  - 1. Three-dimensional model of the culvert pipe based on the laser profile measurements
  - 2. Digital profile of culvert pipe extracted from the inspection video
  - 3. Calculations of the ovality, capacity and delta of the culvert pipe
  - 4. Explanation as to why data was unattainable for any section of the culvert pipe

The contractor shall submit a performance report to the Engineer within 5 days of completing the performance inspection of the culvert pipe run. Submit the performance report in an electronic format approved by the Engineer.

**2602.4.9 Culvert Pipe Evaluation.** The culvert pipe shall be evaluated based on the Performance report. Defects exceeding limitations in this specification will require an action plan addressing noted deficiencies. Other defects will require the contractor to submit an action plan to the Engineer.

**2602.4.10 Repairs.** Required repairs shall be made at no additional cost to the City and to the satisfaction of the Engineer. The contractor shall submit their required action plan including repair process and/or revised installation plan to the Engineer for approval at least 7 days before performing the repairs. The action plan shall provide written confirmation from the culvert pipe manufacturer that the repair methods are appropriate. Any repairs shall have a performance evaluation conducted of the repaired portion of the culvert pipe and any culvert pipe potentially affected by the repair work 30 days after the repair has been made.

### 2604.2 Materials (for storm sewer structures):

#### 2604.2.A – Concrete Mixes

REVISE to read as follows:

***“Concrete for structures and structural components shall be KCMMB 4k or 5k mix; or MCIB 4,500 psi or 5,000 psi mix. Nominal aggregate shall be 1-inch or larger. Concrete used for soil stabilization, pipe cradles, filling, leveling courses and other similar purposes may use smaller nominal aggregate sizes of 1/2-inch, 3/4-inch.”***

#### 2604.2 F – Manhole Castings and Metal Castings:

ADD the following

***3. Metal Castings shall be selected from the current City of Lee’s Summit Public Works Approved Products List.***

### 2604.3 Construction (for storm sewer structures):

## STORM SEWERS

### 2604.3.A.2 Finishing:

ADD the following

- c. If an adjustment is required for the top slab which is less than or equal to 6 inches, the adjustment shall be made with non-shrink grout with a coating of cement on both faces, if the adjustment is greater than 6 inches, the adjustment shall be made with dowelled concrete. Dowels shall be bars embedded 6 inches into the walls. All reinforcement shall be the same size and spacing as the wall steel.*

ADD the following:

### **2604.3.D. Cast-in-Place Box Culvert Support Slab:**

*Cast in place box culverts shall have a 3 inch thick grade slab cast under the bottom slab. The grade slab shall be at least as wide as the structure and shall stop short of the toe walls. Commercial grade concrete may be used with minimum 2500 psi compressive strength. The slab should be set with proper grade control to match the elevations required for the culvert.*

October 7, 2025

Re: Communication on DBE Changes

Dear Stakeholder:

On September 30, 2025, USDOT published an Interim Final Rule (IFR) that significantly changes the Disadvantaged Business Enterprise (DBE) and Airport Concessionaire (ACDBE) programs.

The IFR was effective immediately upon publication in the Federal Register on October 3, 2025.

The immediate steps MoDOT is taking to comply with the IFR are:

1. MoDOT will not be setting DBE goals on future contracts - including Professional Service and Construction Contracts - while next steps are being developed and implemented, to fully comply with the required changes to the DBE program.
2. MoDOT will continue to work with USDOT and federal transportation administrations to develop timely guidance and direction for the DBE community regarding implementation of the IFR.
3. Further guidance will be forthcoming as MoDOT staff develops additional action needed for full compliance with the IFR.

Sincerely,



Eric Schroeter, P.E.  
Deputy Director/Chief Engineer





## AGREEMENT BETWEEN OWNER AND CONTRACTOR

**FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)**

This Agreement is by and between the City of Lee’s Summit, Missouri (“Owner”) and **[name of contracting entity]** (“Contractor”).

Terms used in this Agreement have the meanings stated in the General Conditions and the Supplementary Conditions.

Owner and Contractor hereby agree as follows:

**ARTICLE 1—WORK**

1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows: Reconstruction of approximately 2150 linear feet of two-lane concrete residential roadway (NW Ward Road) and associated intersections with curb & gutter, sidewalks, driveway approaches, and roundabout at the intersection of NW Ward Road and Blue Parkway. Enclosed storm sewer system, sanitary sewer replacement, water main replacement, and street lighting as shown on the plans and indicated in the specifications.

**ARTICLE 2—THE PROJECT**

2.01 The Project, of which the Work under the Contract Documents is a part, is generally described as follows: NW Ward Road Improvements from Blue Parkway to O’Brien Road

**ARTICLE 3—ENGINEER**

3.01 The Owner has retained Walter P. Moore and Associates, Inc. (“Engineer”) to act as Owner’s representative, assume all duties and responsibilities of Engineer, and have the rights and authority assigned to Engineer in the Contract, except as described in Paragraph 3.03 of this Agreement.

3.02 The part of the Project that pertains to the Work has been designed by “Engineer”

3.03 The Owner shall be responsible for handling the following matters notwithstanding the fact that certain portions of the Contract Documents may list the Engineer as having responsibility for said matters:

- A. Furnish a Resident Project Representative;
- B. Change of Working Hours;
- C. Make Determinations for Unit Price Work (determine quantities and classifications);
- D. Field orders, Work Change Directives, Change Orders;
- E. Progress Payments;
- F. Monitor Contractor’s schedule, progress, schedule and conduct progress meetings;

- G. Receive in writing questions from the Contractor regarding all matters concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents;
- H. The Owner will be the initial interpreter of the requirements of the Contract Documents;
- I. The Owner will render decision regarding the requirements of the Contract Documents;
- J. The Owner will judge of the acceptability of the Work; and
- K. Coordinate construction services provided by the Engineer as needed.

In the event that portions of the Contract Documents indicate that the Engineer is to handle, provide input, or receive notices or filings with regard to any of the above referenced matters, this Article 3 shall prevail.

#### ARTICLE 4—CONTRACT TIMES

##### 4.01 *Time is of the Essence*

- A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

##### 4.02 *Contract Times: Days*

- A. The Work will be substantially complete within **150** days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within **30 days after Substantial Completion**.

##### 4.03 *Milestones*

- A. Completion of the punch list attached to the Certificate of Substantial Completion shall be achieved within 30 days after Substantial Completion.
- B. Parts of the Work must be substantially completed on or before the following Milestone(s):
  1. Milestone 1: Phase 3 must begin after the 2026 Westview Elementary summer school program (June 24, 2026) and substantially complete prior to the start of the Westview Elementary 2026-2027 school year (August 12, 2026).

##### 4.04 *Liquidated Damages*

- A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.01 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones not achieved within the Contract Times, as duly modified. The parties also recognize the delays, expense, and difficulties involved in proving, in a legal or arbitration proceeding, the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):

1. *Substantial Completion:* Contractor shall pay Owner **\$1,500** for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for Substantial Completion, until the Work is substantially complete.
  2. *Completion of Remaining Work:* After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner **\$1,500** for each day that expires after such time until the Work is completed and ready for final payment.
  3. *Milestones:*
    - a. Contractor shall pay Owner **\$1,500** for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for achievement of Paragraph 4.03.A, or until the time specified for the Work to be completed and ready for final payment, at which time the rate indicated in Paragraph 4.04.A.2 will apply, rather than this Milestone rate.
    - b. Contractor shall pay Owner **\$1,500** for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for achievement of each Milestone reflected in Paragraph 4.03.B, or until the time specified for Substantial Completion is reached, at which time the rate indicated in Paragraph 4.04.A.1 will apply, rather than this Milestone rate.
  4. Liquidated damages for failing to timely attain Milestones, Substantial Completion, and final completion are not additive, and will not be imposed concurrently.
- B. If Owner recovers liquidated damages for a delay in completion by Contractor, then such liquidated damages are Owner’s sole and exclusive remedy for such delay, and Owner is precluded from recovering any other damages, whether actual, direct, excess, or consequential, for such delay, except for special damages (if any) specified in this Agreement.

**ARTICLE 5—CONTRACT PRICE**

5.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents, the amounts that follow, subject to adjustment under the Contract:

- A. For all Work other than Unit Price Work, a lump sum of **\$(number)**.

All specific cash allowances are included in the above price in accordance with Paragraph 13.02 of the General Conditions.

- B. For all Unit Price Work, an amount equal to the sum of the extended prices (established for each separately identified item of Unit Price Work by multiplying the unit price times the actual quantity of that item).

Unit Price Work					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Price
1	Mobilization	LS	1	\$	\$
2	Clearing & Grubbing	LS	1	\$	\$

Unit Price Work					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Price
3	Tree Removal	Each	60	\$	\$
4	Demolition & Removal	LS	1	\$	\$
5	Unclassified Excavation	Cu. Yds	5594	\$	\$
6	Embankment	Cu. Yds	3828	\$	\$
7	Pavement, 6" KCMMB 4K Concrete	Sq. Yds	9280	\$	\$
8	Pavement, 8" KCMMB 4K Concrete	Sq. Yds	2507	\$	\$
9	Driveways, 6" KCMMB 4K Concrete	Sq. Yds	993	\$	\$
10	Driveways, 8" KCMMB 4K Concrete	Sq. Yds	479	\$	\$
11	Parking Lot, 2" APWA Type 5-01 Asphalt Surface Course	Sq. Yds	671	\$	\$
12	Parking Lot, 4" APWA Type 1-01 Asphalt Base Course	Sq. Yds	671	\$	\$
13	Sidewalk, 4" KCMMB 4K Concrete	Sq. Yds	2046	\$	\$
14	Shared-Use Path, 6" KCMMB 4K Concrete	Sq. Yds	845	\$	\$
15	Sidewalk, 6" KCMMB 4K Concrete (Reinforced)	Sq. Yds	228	\$	\$
16	Median, 4" KCMMB 4K Concrete (Stamped & Colored)	Sq. Yds	273	\$	\$
17	Truck Apron, 8" KCMMB 4K Concrete (Stamped & Colored)	Sq. Yds	304	\$	\$
18	Aggregate, 4" Base MoDOT Type 5 (Sidewalk, Median, Driveway)	Sq. Yds	4455	\$	\$
19	Aggregate, 6" Base MoDOT Type 5 (Pavement & Commercial Drive)	Sq. Yds	16005	\$	\$
20	Geogrid for Subgrade Stabilization	Sq. Yds	14845	\$	\$
21	Curb & Gutter (CG-1/CG-1 Dry)	Lin. Ft.	6626	\$	\$
22	Curb & Gutter (CG-2/CG-2 Dry)	Lin. Ft.	906	\$	\$
23	Curb & Gutter (8' Valley Gutter)	Lin. Ft.	179	\$	\$
24	Concrete Flume	Each	1	\$	\$
25	Integral 6" Curb with Sidewalk	Lin. Ft.	245	\$	\$
26	ADA Ramps (All Types)	Each	25	\$	\$
27	Pop up Emitter	Each	1	\$	\$
28	Storm Sewer Pipe (4" HDPE)	Lin. Ft.	70	\$	\$
29	Storm Sewer Pipe (6" HDPE)	Lin. Ft.	36	\$	\$
30	Storm Sewer Pipe (8" PVC)	Lin. Ft.	210	\$	\$

Unit Price Work					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Price
31	Storm Sewer Pipe (15" PP)	Lin. Ft.	1613	\$	\$
32	Storm Sewer Pipe (18" PP)	Lin. Ft.	36	\$	\$
33	Storm Sewer Pipe (24" PP)	Lin. Ft.	146	\$	\$
34	Storm Sewer Pipe (30" PP)	Lin. Ft.	476	\$	\$
35	Drain Basin (18")	Each	1	\$	\$
36	Storm Sewer Structures, Curb Inlet (4' x 4')	Each	12	\$	\$
37	Storm Sewer Structures, Curb Inlet (4' x 5') (SP)	Each	1	\$	\$
38	Storm Sewer Structures, Curb Inlet (6' x 4')	Each	6	\$	\$
39	Storm Sewer Structures, Curb Inlet (6' x 4') (SP)	Each	1	\$	\$
40	Storm Sewer Structures, Curb Inlet (6' x 5') (SP)	Each	1	\$	\$
41	Storm Sewer Structures, Curb Inlet (6' x 8') (SP)	Each	1	\$	\$
42	Storm Sewer Structures, Curb Inlet (8' x 4')	Each	2	\$	\$
43	Storm Sewer End Sections (30" RCP)	Each	1	\$	\$
44	Storm Sewer Structures, Junction Box (4' x 4')	Each	4	\$	\$
45	Storm Sewer Structures, Connection to Existing	Each	7	\$	\$
46	Storm Sewer Structures, RCB (12' x 6')	Lin. Ft.	36	\$	\$
47	RCB Repair	LS	1	\$	\$
48	KCMMB 5K Concrete (RCB Wingwalls & Apron)	Cu. Yds	56	\$	\$
49	Erosion (Sediment) Control Devices, Inlet Protection	Each	24	\$	\$
50	Erosion (Sediment) Control Devices, Sediment Fence	Lin. Ft.	1282	\$	\$
51	Erosion (Sediment) Control Devices, Biodegradable Logs	Lin. Ft.	5864	\$	\$
52	Fence (Chain Link)	Lin. Ft.	593	\$	\$
53	Fence (Wood)	Lin. Ft.	164	\$	\$
54	Fence (Ornamental)	Lin. Ft.	130	\$	\$
55	Sanitary Sewer Pipe (18" PVC, SDR-26)	Lin. Ft.	72	\$	\$

Unit Price Work					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Price
56	Sanitary Sewer Structures, Connection to Existing	Each	1	\$	\$
57	Sanitary Sewer Structures, Manhole (4' DIA.)	Each	1	\$	\$
58	Sanitary Sewer Structures, Adjust Existing	Each	12	\$	\$
59	Type III Barricade	Each	58	\$	\$
60	Trim Line Channelizer Device	Each	227	\$	\$
61	Changeable Message Board	Each	2	\$	\$
62	Construction Sign	Sq. Ft.	1780	\$	\$
63	Water Line Pipe (6" C900 DR18 PVC)	Lin. Ft.	123	\$	\$
64	Water Line Pipe (8" C900 DR18 PVC)	Lin. Ft.	3181	\$	\$
65	Water Line Pipe (10" C900 DR18 PVC)	Lin. Ft.	5	\$	\$
66	Water Line Fitting (8" 11.25° Bend)	Each	3	\$	\$
67	Water Line Fitting (8" 11.25° Bend) (Vertical)	Each	8	\$	\$
68	Water Line Fitting (8" 22.50° Bend)	Each	3	\$	\$
69	Water Line Fitting (8" 22.50° Bend) (Vertical)	Each	4	\$	\$
70	Water Line Fitting (8" 45° Bend)	Each	18	\$	\$
71	Water Line Fitting (8" 45° Bend) (Vertical)	Each	14	\$	\$
72	Water Line Fitting (8" x 6" Tee)	Each	8	\$	\$
73	Water Line Fitting (8" x 8" Tee)	Each	8	\$	\$
74	Water Line Fitting (8" x 8" Cross)	Each	1	\$	\$
75	Water Line Fitting (8" x 6" Reducer)	Each	8	\$	\$
76	Water Line Fitting (10" x 8" Reducer)	Each	1	\$	\$
77	Water Line Fitting (6" Gate Valve)	Each	1	\$	\$
78	Water Line Fitting (8" Gate Valve)	Each	16	\$	\$
79	Water Line Fitting (8" Cap)	Each	1	\$	\$
80	Water Line Fitting (6" Solid Sleeve)	Each	8	\$	\$
81	Water Line Fitting (8" Solid Sleeve)	Each	2	\$	\$
82	Water Line Fitting (10" Solid Sleeve)	Each	1	\$	\$
83	Water Meter Well	Each	2	\$	\$
84	Water Meter Installation	Each	2	\$	\$

Unit Price Work					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Price
85	Water Service Line Reconnection (3/4")	Each	17	\$	\$
86	Water Service Line Pipe (3/4" Type K Copper)	Lin. Ft.	712	\$	\$
87	Fire Hydrant Assembly (With New Hydrant)	Each	7	\$	\$
88	Straddle Block	Each	28	\$	\$
89	Backing Block	Each	39	\$	\$
90	Trench Check	Each	1	\$	\$
91	High-Build Paint Pavement Marking (4" White)	Lin. Ft.	320	\$	\$
91a	High-Build Paint Pavement Marking (6" White)	Lin. Ft.	2834		
92	Prefomed Thermoplastic Pavement Marking (6" White)	Lin. Ft.	302	\$	\$
93	Prefomed Thermoplastic Pavement Marking (12" White)	Lin. Ft.	45	\$	\$
94	Prefomed Thermoplastic Pavement Marking (24" White)	Lin. Ft.	308	\$	\$
95	Prefomed Thermoplastic Pavement Marking (4" Yellow)	Lin. Ft.	2845	\$	\$
96	Prefomed Thermoplastic Pavement Marking (Bicycle and Straight Arrow)	Each	13	\$	\$
97	Prefomed Thermoplastic Pavement Marking (Bicycle and Turn Arrow)	Each	1	\$	\$
98	Flat Sheet Signs	Sq. Ft.	326	\$	\$
99	Sign Posts (Anchor, Sleeve, and Post)	Each	38	\$	\$
100	Solar LED Crosswalk Flashing Beacon	Each	2	\$	\$
101	School Flasher Assembly	Each	2	\$	\$
102	LED Luminaire (12500 Lumens)	Each	15	\$	\$
103	Aluminum Pole 30'-0" Mounting Height	Each	15	\$	\$
104	LED Luminaire (24500 Lumens)	Each	6	\$	\$
105	Aluminum Pole 40'-0" Mounting Height	Each	6	\$	\$
106	6' Arm and Bracket for 30' Pole	Each	15	\$	\$
107	10' Arm and Bracket for 40' Pole	Each	6	\$	\$
108	1C #10 RHW/Use Internal Pole Wire	Lin. Ft.	2,600	\$	\$
109	3-1C NO.4 Type Distribution Cable	Lin. Ft.	3,300	\$	\$

Unit Price Work					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Price
110	Conduit, 2" Schedule 40 PVC	Lin. Ft.	3,200	\$	\$
111	Conduit, 3" Schedule 40 PVC - For Energy Feed	Lin. Ft.	100	\$	\$
112	4 Circuit Street Lighting Controller	Each	1	\$	\$
113	Type B30 Screw In Base for 30' Pole	Each	15	\$	\$
114	Type B40 Screw In Base for 40' Pole	Each	6	\$	\$
115	Break-Away Connectors (Street Lights) - Fused	Each	42	\$	\$
116	Break-Away Connectors (Street Lights) - Non-Fused	Each	21	\$	\$
117	Junction Box - Type 2	Each	5	\$	\$
118	Relocate Existing Light Pole With New Base	Each	1	\$	\$
119	Trees (All Types) - 3" Caliper	Each	21	\$	\$
120	Perennial/Ornamental Grass, 2 Gallon Cont.	Each	607	\$	\$
121	Shredded Hardwood Mulch, 3" Depth	Cu. Yds.	22	\$	\$
122	Rip Rap 3-8" Angular	Sq. Yds.	80	\$	\$
123	Cobblestone Boulders	Each	30	\$	\$
124	Sod (All Types) - Turf	Sq. Yds.	9,031	\$	\$
125	Bioretention Fill Soil, 24" Depth (MARC BMP Blend)	Cu. Yds.	175	\$	\$
<b>Total of all Extended Prices for Unit Price Work</b> (subject to final adjustment based on actual quantities)					\$

The extended prices for Unit Price Work set forth as of the Effective Date of the Contract are based on estimated quantities. As provided in Paragraph 13.03 of the General Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Engineer.

- C. Total of Lump Sum Amount and Unit Price Work (subject to final Unit Price adjustment) **\$[number]**.



## ARTICLE 6—PAYMENT PROCEDURES

### 6.01 *Submittal and Processing of Payments*

- A. Contractor shall submit Applications for Payment in accordance with Article 15 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

### 6.02 *Progress Payments; Retainage*

- A. Owner shall make progress payments on the basis of Contractor's Applications for Payment ~~monthly on or about the [ordinal number, such as 5th] day of each month~~ during performance of the Work as provided in Paragraph 6.02.A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided elsewhere in the Contract.

1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract.

- a. **95** percent of the value of the Work completed (with the balance being retainage).

- 1) ~~If 50 percent or more of the Work has been completed, as determined by Engineer, and if the character and progress of the Work have been satisfactory to Owner and Engineer, then as long as the character and progress of the Work remain satisfactory to Owner and Engineer, there will be no additional retainage; and~~

- b. **100** percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

- B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to **95** percent of the Work completed, less such amounts set off by Owner pursuant to Paragraph 15.01.E of the General Conditions, and less **150** percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the punch list of items to be completed or corrected prior to final payment.

### 6.03 *Final Payment*

- A. Upon final completion and acceptance of the Work, Owner shall pay the remainder of the Contract Price in accordance with Paragraph 15.06 of the General Conditions.

### 6.04 *Consent of Surety*

- A. Owner will not make final payment, or return or release retainage at Substantial Completion or any other time, unless Contractor submits written consent of the surety to such payment, return, or release.

6.05 *Interest*

- A. All amounts not paid when due will bear interest at the rate as specified by Missouri State Statute, RSMo 8.960. ~~of [number] percent per annum.~~

**ARTICLE 7—CONTRACT DOCUMENTS**7.01 *Contents*

- A. The Contract Documents consist of all of the following:
1. This Agreement.
  2. Bonds:
    - a. Performance bond (together with power of attorney).
    - b. Payment bond (together with power of attorney).
  3. General Conditions.
  4. Supplementary Conditions.
  5. Specifications as listed in the table of contents of the project manual (copy of list attached).
  6. Drawings (not attached but incorporated by reference) consisting of **171** sheets with each sheet bearing the following general title: **NW Ward Road Improvements**.
  7. Addenda (numbers **[number]** to **[number]**, inclusive).
  8. Exhibits to this Agreement (enumerated as follows):
    - a. Price Indexing Statements
  9. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:
    - a. Notice to Proceed.
    - b. Work Change Directives.
    - c. Change Orders.
    - d. Field Orders.
    - e. Warranty Bond, if any.
- B. The Contract Documents listed in Paragraph 7.01.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 7.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in the Contract.

**ARTICLE 8—REPRESENTATIONS, CERTIFICATIONS, AND STIPULATIONS****8.01 Contractor's Representations**

- A. In order to induce Owner to enter into this Contract, Contractor makes the following representations:
1. Contractor has examined and carefully studied the Contract Documents, including Addenda.
  2. Contractor has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
  3. Contractor is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
  4. Contractor has carefully studied the reports of explorations and tests of subsurface conditions, if any, at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
  5. Contractor has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
  6. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (c) Contractor's safety precautions and programs.
  7. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
  8. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
  9. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
  10. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

11. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Agreement are premised upon performing and furnishing the Work required by the Contract Documents.

#### 8.02 *Contractor's Certifications*

- A. Pursuant to Section 34.600, RSMo., and to the fullest extent permitted by law, Contractor certifies that it is not engaged in a boycott of Israel as of the Effective Date of this Agreement, and agrees for the duration of this Agreement to not engage in a boycott of Israel.
- B. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 8.02:
1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process or in the Contract execution;
  2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
  3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and
  4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

#### 8.03 *Standard General Conditions*

- A. Owner stipulates that if the General Conditions that are made a part of this Contract are EJCDC® C-700, Standard General Conditions for the Construction Contract (2018), published by the Engineers Joint Contract Documents Committee, and if Owner is the party that has furnished said General Conditions, then Owner has plainly shown all modifications to the standard wording of such published document to the Contractor, through a process such as highlighting or "track changes" (redline/strikeout), or in the Supplementary Conditions.

#### 8.04 *Other Provisions*

- A. This Agreement and all work related to this Project shall be governed by the laws of the State of Missouri and shall be litigated and/or mediated in Jackson County, Missouri.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement.

This Agreement will be effective on **indicate date on which Contract becomes effective** (which is the Effective Date of the Contract).

Owner:

Contractor:

\_\_\_\_\_  
*(typed or printed name of organization)*

\_\_\_\_\_  
*(typed or printed name of organization)*

By: \_\_\_\_\_  
*(individual's signature)*

By: \_\_\_\_\_  
*(individual's signature)*

Date: \_\_\_\_\_  
*(date signed)*

Date: \_\_\_\_\_  
*(date signed)*

Name: \_\_\_\_\_  
*(typed or printed)*

Name: \_\_\_\_\_  
*(typed or printed)*

Title: \_\_\_\_\_  
*(typed or printed)*

Title: \_\_\_\_\_  
*(typed or printed)*

*(If [Type of Entity] is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)*

Attest: \_\_\_\_\_  
*(individual's signature)*

Attest: \_\_\_\_\_  
*(individual's signature)*

Title: \_\_\_\_\_  
*(typed or printed)*

Title: \_\_\_\_\_  
*(typed or printed)*

Address for giving notices:

Address for giving notices:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Designated Representative:

Designated Representative:

Name: \_\_\_\_\_  
*(typed or printed)*

Name: \_\_\_\_\_  
*(typed or printed)*

Title: \_\_\_\_\_  
*(typed or printed)*

Title: \_\_\_\_\_  
*(typed or printed)*

Address:

Address:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Email: \_\_\_\_\_

*(If [Type of Entity] is a corporation, attach evidence of authority to sign. If [Type of Entity] is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of this Agreement.)*

License No.: \_\_\_\_\_  
*(where applicable)*

State: \_\_\_\_\_

## SECTION 01120

## MEASUREMENT AND PAYMENT

## PART 1 GENERAL

## 1.01 REQUIREMENTS INCLUDED AND DEFINITIONS

- A. The term “all costs”, as used in the payment descriptions within Part 2, is defined as full compensation for all equipment, labor, material and incidental costs.
- B. The Work of this Contract (and subsequent payment) consists of furnishing all equipment, labor, material and incidentals, as well as performing all construction, installation and testing of all improvements, modifications and additions, all as shown on the Drawings and detailed in the Specifications.
- C. All work shown on the Drawings or detailed in the Specifications and not specifically set forth in Article 5 of the Agreement as a pay item shall be considered a subsidiary obligation of the Contractor, and all costs in connection therewith shall be included in the prices named in the proposal.
- D. Progress measurements (for progress payments on the pay applications) shall be determined by the amount of work performed during a given period.
  - 1. Payments for items with a lump sum unit shall be based on one of the three options below, with the payment method being agreed upon by all parties.
    - i. Field measured to determine the actual value.
    - ii. An estimated value of the work performed.
    - iii. Pro-rated over the life of the contract, based off contract time or based off the total value of work performed percentage.
  - 2. Payments for items with a unit that may be measured to the tenth may be paid to the tenth. However, rounding will only occur during the final pay application and shall not be applied to any progress measurements.
- E. Final measurement is to be applied to the final pay application. Items not requiring final measurement will pay the full amount in Article 5 of the Agreement, unless appreciable errors are found or changes are authorized by the Owner.
- F. Rounding shall be performed during the final pay application, and rounding shall be to the nearest whole number, with 0 thru 4 being rounded down, and 5 thru 9 being rounded up.

## PART 2 PAY ITEMS (IN NUMERICAL ORDER)

## 1. MOBILIZATION

- A. Partial payment for the mobilization pay item will be based on the contract lump sum bid price for mobilization and will be made in accordance with the following Payment Schedule:

1. Twenty-five percent, when five percent or more of the original contract amount is earned.
  2. Fifty percent, when ten percent or more of the original contract amount is earned.
  3. Seventy-five percent, when twenty-five percent or more of the original contract amount is earned.
  4. One-hundred percent, when fifty percent or more of the original contract amount is earned.
2. CLEARING AND GRUBBING
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for clearing and grubbing shall be based on the lump sum price as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, demolishing, removing and disposing of all trees, shrubs, bushes, stumps and roots within the Site, as required by the drawings and specifications.
3. TREE REMOVAL
- A. Final measurement will be based on each removed item.
  - B. Payment for tree removal shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
4. DEMOLITION AND REMOVAL
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for demolition and removal shall be based on the lump sum price as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, demolishing, removing, disposing, plugging and capping of all structures and improvements, such as existing pavement, curb, sidewalk, pipes and structures (such as sanitary, storm and water) fences, signs, poles and footings, within the Site, unless included in other items of work, as required by the drawings and specifications.
5. EMBANKMENT
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for embankment shall be based on the unit price per cubic yard as set forth in the Agreement. The quantity in the Agreement identifies the compacted in-place fill volume computed from the cross sections. Said price shall include all costs necessary to complete the work including, but not limited to, roadway grading, loading, material manipulation, placement, compacting, finish grading, subgrade preparation, and topsoil replacement (including additional materials to sustain plant growth), as required by the drawings and specifications.
6. UNCLASSIFIED EXCAVATION

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for unclassified excavation shall be based on the unit price per cubic yard as set forth in the Agreement. The quantity in the Agreement identifies the cut volume computed from the cross sections and includes the existing pavement section in the calculation. Said price shall include all costs necessary to complete the work including, but not limited to, roadway grading, excavation of whatever material is encountered (earth, shale, limestone), loading, hauling, placement, compaction, subgrade preparation and reconstruction, topsoil removal or placement, as required by the drawings and specifications.
7. PAVEMENT, 6" KCMMB 4K CONCRETE
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for pavement shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, forming, reinforcing, placing, compacting, saw cutting, connections to existing pavement, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
8. PAVEMENT, 8" KCMMB 4K CONCRETE
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for pavement shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, forming, reinforcing, placing, compacting, saw cutting, connections to existing pavement, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
9. DRIVEWAYS, 6" KCMMB 4K CONCRETE
- A. Final measurement will be based on the square yard of the completed and installed item.
  - B. Payment for driveways shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, reinforcing, compacting, saw cutting, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
10. DRIVEWAYS, 8" KCMMB 4K CONCRETE
- A. Final measurement will be based on the square yard of the completed and installed item.
  - B. Payment for driveways shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, reinforcing, compacting, saw cutting, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
11. PARKING LOT, 2" APWA TYPE 5 (ASPHALTIC SURFACE)



- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for pavement shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, forming, reinforcing, placing, compacting, saw cutting, connections to existing pavement, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
12. PARKING LOT, 4" APWA TYPE 1 (ASPHALTIC BASE)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for pavement shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, forming, reinforcing, placing, compacting, saw cutting, connections to existing pavement, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
13. SIDEWALK, 4" KCM MB 4K CONCRETE
- A. Final measurement will be based on the square yard of the completed and installed item.
  - B. Payment for sidewalks shall be based on the unit price per square yard as set forth in the Agreement, per thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, placing, compacting, aggregate course, saw cutting, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
14. SHARED-USE PATH, 6" KCM MB 4K CONCRETE
- A. Final measurement will be based on the square yard of the completed and installed item.
  - B. Payment for multi use paths shall be based on the unit price per square yard as set forth in the Agreement, per type of path and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, forming, reinforcing, placing, compacting, saw cutting, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
15. SIDEWALK, 6" KCM MB 4K CONCRETE (REINFORCED)
- A. Final measurement will be based on the square yard of the completed and installed item.
  - B. Payment for sidewalks shall be based on the unit price per square yard as set forth in the Agreement, per thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, placing, compacting, aggregate course, saw cutting, milling, reinforcing, doweling, jointing, curing and sealing, as required by the drawings and specifications.
16. MEDIAN, 4" KCM MB 4K CONCRETE (STAMPED AND COLORED)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.

- B. Payment for stamped concrete shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, subgrade preparation, aggregate leveling course, forming, reinforcing, placing, compacting, finishing, coloring, stamping, saw cutting, connections to existing pavement, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
17. TRUCK APRON, 8" KCMMB 4K CONCRETE (STAMPED AND COLORED)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for stamped concrete shall be based on the unit price per square yard as set forth in the Agreement, per type of pavement and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, subgrade preparation, aggregate leveling course, forming, reinforcing, placing, compacting, finishing, coloring, stamping, saw cutting, connections to existing pavement, milling, doweling, jointing, curing and sealing, as required by the drawings and specifications.
18. AGGREGATE, 4" BASE MODOT TYPE 5 (SIDEWALK, MEDIAN, DRIVEWAYS)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for aggregate shall be based on the unit price per square yard as set forth in the Agreement, per type of material and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, placing, compacting, rolling, watering, maintaining and removing, as required by the drawings and specifications.
19. AGGREGATE, 6" BASE MODOT TYPE 5 (PAVEMENT AND COMMERCIAL DRIVES)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for aggregate shall be based on the unit price per square yard as set forth in the Agreement, per type of material and thickness of the installed item. Said price shall include all costs necessary to complete the work including, but not limited to, placing, compacting, rolling, watering, maintaining and removing, as required by the drawings and specifications.
20. GEOGRID FOR SUBGRADE STABILIZATION
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for geogrid shall be based on the unit price per square yard as set forth in the Agreement, per type of material and thickness of the installed item. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
21. CURB AND GUTTER (TYPE CG-1/CG-1 DRY)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for curb and gutter shall be based on the unit price per linear foot as set forth in the Agreement, per the type of curb and gutter. Said price shall include all costs necessary to complete the work including, but not limited to, subgrade preparation, forming, reinforcing,

- placing, doweling, jointing, throat construction, deflector construction, weep holes, finishing, curing and backfilling, as required by the drawings and specifications.
22. CURB AND GUTTER (TYPE CG-2/CG-2 DRY)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for curb and gutter shall be based on the unit price per linear foot as set forth in the Agreement, per the type of curb and gutter. Said price shall include all costs necessary to complete the work including, but not limited to, subgrade preparation, forming, reinforcing, placing, doweling, jointing, throat construction, deflector construction, weep holes, finishing, curing and backfilling, as required by the drawings and specifications.
23. CURB AND GUTTER (8' VALLEY GUTTER)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for curb and gutter shall be based on the unit price per linear foot as set forth in the Agreement, per the type of curb and gutter. Said price shall include all costs necessary to complete the work including, but not limited to, subgrade preparation, forming, reinforcing, placing, doweling, jointing, throat construction, deflector construction, weep holes, finishing, curing and backfilling, as required by the drawings and specifications.
24. CONCRETE FLUME
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for flume shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
25. INTEGRAL 6" CURB WITH SIDEWALK
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for integral 6" curb with sidewalk shall be based on the unit price per linear foot as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, subgrade preparation, forming, reinforcing, placing, doweling, jointing, throat construction, deflector construction, weep holes, finishing, curing and backfilling, as required by the drawings and specifications.
26. ADA RAMPS (ALL TYPES)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for ramps shall be based on the unit price per each as set forth in the Agreement, per type of installed item. Said price shall include all costs necessary to complete the work including, but not limited to, subgrade preparation, aggregate course, forming, placing, compacting, saw cutting, milling, doweling, jointing, detectable warning surface, six inch thick ramp transitions or turning spaces, integral sidewalk curb, mortar work, curing and sealing, as required by the drawings and specifications.

27. POP UP EMITTER
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for pop up emitter shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
28. STORM SEWER PIPE (4" HDPE)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for storm sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing, pipe to pipe connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
29. STORM SEWER PIPE (6" HDPE)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for storm sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing, pipe to pipe connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
30. STORM SEWER PIPE (8" PVC)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for storm sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing, pipe to pipe connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
31. STORM SEWER PIPE (15" PP)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for storm sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing, pipe to pipe connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
32. STORM SEWER PIPE (18" PP)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.

- B. Payment for storm sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing, pipe to pipe connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
33. STORM SEWER PIPE (24" PP)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for storm sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing, pipe to pipe connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
34. STORM SEWER PIPE (30" PP)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for storm sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing, pipe to pipe connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
35. DRAIN BASIN (18")
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for drain basin shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
36. STORM SEWER STRUCTURES, CURB INLET (4' X 4')
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
37. STORM SEWER STRUCTURES, CURB INLET (4' X 5') (SPECIAL)
- A. Final measurement will be based on each completed and installed item.

- B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications
38. STORM SEWER STRUCTURES, CURB INLET (6' X 4')
- A. Final measurement will be based on each completed and installed item.
- B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications
39. STORM SEWER STRUCTURES, CURB INLET (6' X 4') (SPECIAL)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications
40. STORM SEWER STRUCTURES, CURB INLET (6' X 5') (SPECIAL)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications
41. STORM SEWER STRUCTURES, CURB INLET (6' X 8') (SPECIAL)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding,

- placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications
42. STORM SEWER STRUCTURES, CURB INLET (8' X 4')
- A. Final measurement will be based on each completed and installed item.
- B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications
43. STORM SEWER END SECTIONS (30" RCP)
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for storm sewer end sections shall be based on the unit price per each as set forth in the Agreement, per type or size of end section. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building the end section, end section to pipe connections, head and toe wall construction, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
44. STORM SEWER STRUCTURES, JUNCTION BOX (4' X 4')
- A. Final measurement will be based on each completed and installed item.
- B. Payment for storm sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
45. STORM SEWER STRUCTURES, CONNECTION TO EXISTING
- A. Final measurement will be based on each completed and modified item.
- B. Payment for connection to existing storm sewer structures shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, reinforcing steel, wall patching, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.

46. STORM SEWER STRUCTURES, RCB (12' X 6')
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for reinforced concrete box shall be based on the unit price per linear foot as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, excavation of whatever material is encountered (earth, shale, limestone), the granular backfill beneath the grade slab, the concrete grade slab, backfill needed (up to the bottom of the pavement subgrade), backfill inside the culvert, the reinforced concrete box culvert, weir walls, the wing walls, the toe walls, any loading, hauling, placement and compaction, as required by the drawings and specifications.
  - C. The reinforced concrete box culvert may be cast-in-place or precast.
47. RCB REPAIR
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for RCB repair shall be based on the lump sum price as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, floor and overhead repairs, and waterproofing as required by the drawings and specifications.
48. KCMMB 5K CONCRETE (RCB WINGWALLS & APRON)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for RCB wingwall and apron concrete shall be based on the unit price per cubic yard as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), backfilling, compacting, grading, forming, dewatering, shoring, concrete base or leveling course, reinforcing, jointing, sealing, doweling, sawing, geogrid, geotextile, drain tile and weep holes, as required by the drawings and specifications.
49. EROSION (SEDIMENT) CONTROL DEVICES, INLET PROTECTION
- A. Final measurement will be based on counting the number, measuring the linear footage or measuring the area of the completed and installed item.
  - B. Payment for sediment control shall be based on the unit price as set forth in the Agreement, per each for inlet protection. Said price shall include all costs necessary to complete and maintain the work including, but not limited to, the repair, maintenance and removal of installed devices, as well as the removal of sediment during the Work.
50. EROSION (SEDIMENT) CONTROL DEVICES, SEDIMENT FENCE
- A. Final measurement will be based on counting the number, measuring the linear footage or measuring the area of the completed and installed item.
  - B. Payment for sediment control shall be based on the unit price as set forth in the Agreement, per linear foot of sediment fence. Said price shall include all costs necessary to complete and



- maintain the work including, but not limited to, the repair, maintenance and removal of installed devices, as well as the removal of sediment during the Work.
51. EROSION (SEDIMENT) CONTROL DEVICES, BIODEGRADABLE LOGS
- A. Final measurement will be based on counting the number, measuring the linear footage or measuring the area of the completed and installed item.
  - B. Payment for sediment control shall be based on the unit price as set forth in the Agreement, per linear foot of biodegradable logs. Said price shall include all costs necessary to complete and maintain the work including, but not limited to, the repair, maintenance and removal of installed devices, as well as the removal of sediment during the Work.
52. FENCE (CHAIN LINK)
- A. Final measurement will be based on the length of the completed and installed item.
  - B. Payment for fence or handrail shall be based on the unit price per linear foot as set forth in the Agreement, per type of fence. Said price shall include all costs necessary to complete the work including, but not limited to, the installation, gates (permanent or temporary), maintenance and removal of temporary fence, as required by the drawings and specifications.
53. FENCE (WOOD)
- A. Final measurement will be based on the length of the completed and installed item.
  - B. Payment for fence or handrail shall be based on the unit price per linear foot as set forth in the Agreement, per type of fence. Said price shall include all costs necessary to complete the work including, but not limited to, the installation, gates (permanent or temporary), maintenance and removal of temporary fence, as required by the drawings and specifications.
54. FENCE (ORNAMENTAL)
- A. Final measurement will be based on the length of the completed and installed item.
  - B. Payment for fence or handrail shall be based on the unit price per linear foot as set forth in the Agreement, per type of fence. Said price shall include all costs necessary to complete the work including, but not limited to, the installation, gates (permanent or temporary), maintenance and removal of temporary fence, as required by the drawings and specifications.
55. SANITARY SEWER PIPE (18" PVC, SDR-26)
- A. Final measurement will be based on the centerline length of the completed and installed item.
  - B. Payment for sanitary sewer pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), by pass pumping, bedding, trench checks, placing, fittings (bends, sleeves, etc), pipe to pipe connections, pipe to existing structure connections, sealing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.

56. SANITARY SEWER STRUCTURES, CONNECTION TO EXISTING
- A. Final measurement will be based on each completed and modified item.
  - B. Payment for connection to existing sanitary sewer structures shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, reinforcing steel, wall patching, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
57. SANITARY SEWER STRUCTURES, MANHOLE (4' DIA.)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for sanitary sewer structures shall be based on the unit price per each as set forth in the Agreement, per type or size of structure. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), by pass pumping, bedding, placing or building structure, invert construction, structure to pipe connections, final grade adjustments to the top, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
58. SANITARY SEWER STRUCTURES, ADJUST EXISTING
- A. Final measurement will be based on each completed and modified item.
  - B. Payment for adjustment of existing sanitary sewer structures shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), bedding, placing or building structure, invert construction, structure to pipe connections, reinforcing steel, wall patching, weep holes, small subgrade drainage pipes, trash guards, final grade adjustments to the top, lift hook concealment, sealing, curing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
59. TYPE III BARRICADE
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for Type III barricades shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications. Payment for relocation and reuse of the items shall be considered subsidiary to the payment for the initial installation.
60. TRIM LINE CHANNELIZER DEVICE
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for trim line channelizer devices shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as

required by the drawings and specifications. Payment for relocation and reuse of the items shall be considered subsidiary to the payment for the initial installation.

61. CHANGEABLE MESSAGE BOARD

- A. Final measurement will be based on each completed and installed item.
- B. Payment for changeable message boards shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, mobilization, movement and programming, as required by the drawings and specifications.

62. CONSTRUCTION SIGN

- A. Final measurement will be based on each completed and installed item.
- B. Payment for construction signs shall be based on the unit price per square foot as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, sign blanks, sheeting and mounting hardware, as required by the drawings and specifications. Payment for relocation and reuse of the items shall be considered subsidiary to the payment for the initial installation.

63. WATER LINE PIPE (6" C900 DR18 PVC)

- A. Final measurement will be based on the centerline length of the completed and installed item.
- B. Payment for water line pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, trench checks, bedding, polyethylene encasement, placing, pipe to pipe connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.

64. WATER LINE PIPE (8" C900 DR18 PVC)

- A. Final measurement will be based on the centerline length of the completed and installed item.
- B. Payment for water line pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, trench checks, bedding, polyethylene encasement, placing, pipe to pipe connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.

65. WATER LINE PIPE (10" C900 DR18 PVC)

- A. Final measurement will be based on the centerline length of the completed and installed item.
- B. Payment for water line pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, trench

- checks, bedding, polyethylene encasement, placing, pipe to pipe connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
66. WATER LINE FITTING (8" 11.25° BEND)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
67. WATER LINE FITTING (8" 11.25° BEND) (VERTICAL)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
68. WATER LINE FITTING (8" 22.50° BEND)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
69. WATER LINE FITTING (8" 22.50° BEND) (VERTICAL)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
70. WATER LINE FITTING (8" 45° BEND)
- A. Final measurement will be based on each completed and installed item.

- B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
71. WATER LINE FITTING (8" 45° BEND) (VERTICAL)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
72. WATER LINE FITTING (8" X 6" TEE)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
73. WATER LINE FITTING (8" X 8" TEE)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
74. WATER LINE FITTING (8" X 8" CROSS)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.

75. WATER LINE FITTING (8" X 6" REDUCER)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
76. WATER LINE FITTING (10" X 8" REDUCER)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
77. WATER LINE VALVES (6" GATE VALVE)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line valves shall be based on the unit price per each as set forth in the Agreement, per type or size of valve. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to valve connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
78. WATER LINE VALVES (8" GATE VALVE)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line valves shall be based on the unit price per each as set forth in the Agreement, per type or size of valve. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to valve connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
79. WATER LINE FITTINGS (8" CAP)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering,

- bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
80. WATER LINE FITTINGS (6" SOLID SLEEVE)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
81. WATER LINE FITTINGS (8" SOLID SLEEVE)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
82. WATER LINE FITTINGS (10" SOLID SLEEVE)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water line fittings shall be based on the unit price per each as set forth in the Agreement, per type or size of fitting. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to fitting connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
83. WATER METER WELL
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water meter well installation shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to pipe connections, meter well, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, tools, equipment and incidentals, as required by the drawings and specifications.
84. WATER METER INSTALLATION

- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water meter installation shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, pipe to pipe connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
  - C. Owner will supply new meter. Contractor shall supply all other parts and tap the line.
85. WATER SERVICE LINE RECONNECTION (3/4")
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for water service line reconnection shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, corp removal, capping at the main, new corp installation, flushing (if required), disinfection (if required), pressure testing (if required), backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
86. WATER SERVICE LINE PIPE (3/4" TYPE K COPPER)
- A. Final measurement will be based on the centerline length of the completed and installed item.
  - B. Payment for water line pipe shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of pipe. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, trench checks, bedding, polyethylene encasement, placing, pipe to pipe connections, restraint measures, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
87. FIRE HYDRANT ASSEMBLY (WITH NEW HYDRANT)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for fire hydrant installation shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), dewatering, bedding, polyethylene encasement, placing, connection to main line, restraint measures, isolation valve, fittings, flushing, disinfection, pressure testing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
88. STRADDLE BLOCK
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for straddle block installation shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), placing, reinforcing, backfilling,



compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.

89. BACKING BLOCK

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for backing block installation shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, all excavation (earth, rock, shale), placing, reinforcing, backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.

90. TRENCH CHECK

- A. Final measurement will be based on each completed and installed item.
- B. Payment for trench check shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

91. HIGH-BUILD PAINT PAVEMENT MARKING (4" WHITE)

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for pavement marking, 4" solid white lane lines (permanent striping) shall be based on the unit price per linear foot as set forth in the Agreement, per width and type of stripe. Skip stripe payment shall be based on the linear footage of the applied stripe; gaps will not be measured. Payment for double yellow centerline shall be based on the linear footage of each stripe. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

91a. HIGH-BUILD PAINT PAVEMENT MARKING (6" WHITE)

- C. Final measurement will not be made unless changes to the bid quantity are authorized.
- D. Payment for pavement marking, 6" solid white lane lines (permanent striping) shall be based on the unit price per linear foot as set forth in the Agreement, per width and type of stripe. Skip stripe payment shall be based on the linear footage of the applied stripe; gaps will not be measured. Payment for double yellow centerline shall be based on the linear footage of each stripe. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

92. PREFORMED THERMOPLASTIC PAVEMENT MARKING (6" WHITE)

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for pavement marking, 6" solid white lane lines (permanent striping) shall be based on the unit price per linear foot as set forth in the Agreement, per width and type of stripe. Skip stripe payment shall be based on the linear footage of the applied stripe; gaps will not be measured. Payment for double yellow centerline shall be based on the linear footage of each

stripe. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

93. PREFORMED THERMOPLASTIC PAVEMENT MARKING (12" WHITE)

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for pavement marking, 12" solid white lane lines (permanent striping) shall be based on the unit price per linear foot as set forth in the Agreement, per width and type of stripe. Skip stripe payment shall be based on the linear footage of the applied stripe; gaps will not be measured. Payment for double yellow centerline shall be based on the linear footage of each stripe. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

94. PREFORMED THERMOPLASTIC PAVEMENT MARKING (24" WHITE)

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for pavement marking, 24" solid white lane lines (permanent striping) shall be based on the unit price per linear foot as set forth in the Agreement, per width and type of stripe. Skip stripe payment shall be based on the linear footage of the applied stripe; gaps will not be measured. Payment for double yellow centerline shall be based on the linear footage of each stripe. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

95. PREFORMED THERMOPLASTIC PAVEMENT MARKING (4" YELLOW)

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for pavement marking, 4" solid yellow centerline (permanent striping) shall be based on the unit price per linear foot as set forth in the Agreement, per width and type of stripe. Skip stripe payment shall be based on the linear footage of the applied stripe; gaps will not be measured. Payment for double yellow centerline shall be based on the linear footage of each stripe. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

96. PREFORMED THERMOPLASTIC PAVEMENT MARKING (BICYCLE AND STRAIGHT ARROW)

- A. Final measurement will be based on each completed and installed item.
- B. Payment for pavement marking, bicycle and straight arrow (permanent markings) shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.

97. PREFORMED THERMOPLASTIC PAVEMENT MARKING (BICYCLE AND TURN ARROW)

- A. Final measurement will be based on each completed and installed item.

- B. Payment for pavement marking, bicycle and turn arrow (permanent markings) shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
98. FLAT SHEET SIGNS
- A. Final measurement will be based on each completed and installed item.
- B. Payment for signs shall be based on the unit price per square foot as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, sign blanks, sheeting and mounting hardware, as required by the drawings and specifications.
99. SIGN POSTS (ANCHOR, SLEEVE, AND POST)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for sign posts shall be based on the unit price per each as set forth in the Agreement, per type of sign post. Said price shall include all costs necessary to complete the work including, but not limited to, all anchoring and breakaway hardware, as required by the drawings and specifications.
100. SOLAR LED CROSSWALK FLASHING BEACON
- A. Final measurement will be based on each completed and installed item.
- B. Payment for solar LED crosswalk flashing beacon shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
101. SCHOOL FLASHER ASSEMBLY
- A. Final measurement will be based on each completed and installed item.
- B. Payment for school flasher assembly shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
102. LED LUMINAIRE (12500 LUMENS)
- A. Final measurement will be based on each completed and installed item.
- B. Payment for luminaires shall be based on the unit price per each as set forth in the Agreement, per type of luminaire. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
103. ALUMINUM POLE 30'-0" MOUNTING HEIGHT
- A. Final measurement will be based on each completed and installed item.

- B. Payment for aluminum poles shall be based on the unit price per each as set forth in the Agreement, per type or size of pole. Said price shall include all costs necessary to complete the work including, but not limited to, break-away bases, as required by the drawings and specifications.
104. LED LUMINAIRE (24500 LUMENS)
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for luminaires shall be based on the unit price per each as set forth in the Agreement, per type of luminaire. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
105. ALUMINUM POLE 40'-0" MOUNTING HEIGHT
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for aluminum poles shall be based on the unit price per each as set forth in the Agreement, per type or size of pole. Said price shall include all costs necessary to complete the work including, but not limited to, break-away bases, as required by the drawings and specifications.
106. 6' ARM AND BRACKET FOR 30' POLE
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for bracket arms shall be based on the unit price per each as set forth in the Agreement, per type or size of bracket arm. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
107. 10' ARM AND BRACKET FOR 40' POLE
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for bracket arms shall be based on the unit price per each as set forth in the Agreement, per type or size of bracket arm. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
108. 1C #10 RHW/USE INTERNAL POLE WIRE
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for wiring shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of wiring. Said price shall include all costs necessary to complete the work including, but not limited to, connectors, splicing, hardware, termination and tags, as required by the drawings and specifications.
  - C. Slack shall be included in the bid quantity.
109. 3-1C NO.4 TYPE DISTRIBUTION CABLE

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for cable shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of cable. Said price shall include all costs necessary to complete the work including, but not limited to, connectors, splicing, hardware, termination and tags, as required by the drawings and specifications.
  - C. Slack shall be included in the bid quantity.
110. CONDUIT, 2" SCHEDULE 40 PVC
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for conduit shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of conduit. Said price shall include all costs necessary to complete the work including, but not limited to, jointing, bends, fittings and tracer wire, as required by the drawings and specifications.
  - C. No separate measurement and payment will be made for the method (i.e. hand digging, plowing, trenching or boring) of conduit installation, and no separate payment will be made for installation in rock.
111. CONDUIT, 3" SCHEDULE 40 PVC – FOR ENERGY FEED
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for conduit shall be based on the unit price per linear foot as set forth in the Agreement, per type or size of conduit. Said price shall include all costs necessary to complete the work including, but not limited to, jointing, bends, fittings and tracer wire, as required by the drawings and specifications.
  - C. No separate measurement and payment will be made for the method (i.e. hand digging, plowing, trenching or boring) of conduit installation, and no separate payment will be made for installation in rock.
112. 4 CIRCUIT STREET LIGHTING CONTROLLER
- A. Final measurement will not be made unless changes to the bid quantity are authorized.
  - B. Payment for street light controller assembly shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, controller cabinet, hardware, panels, switches, controllers, flashers, connectors and cables, and connection to existing power source as required by the drawings and specifications.
113. TYPE B30 SCREW IN BASE FOR 30' POLE
- A. Final measurement will be based on each completed and installed item.
  - B. Payment for bases shall be based on the unit price per each as set forth in the Agreement, per type or size of base. Said price shall include all costs necessary to complete the work

- including, but not limited to, hardware, connecting bolts and all specified materials, as required by the drawings and specifications. No separate payment will be made for bases installed in rock.
- C. In the event a concrete base is substituted for a screw-in anchor base, no additional payments will be made for the equipment, labor, materials and incidental costs to construct a suitable concrete base.
114. TYPE B40 SCREW IN BASE FOR 40' POLE
- A. Final measurement will be based on each completed and installed item.
- B. Payment for bases shall be based on the unit price per each as set forth in the Agreement, per type or size of base. Said price shall include all costs necessary to complete the work including, but not limited to, hardware, connecting bolts and all specified materials, as required by the drawings and specifications. No separate payment will be made for bases installed in rock.
- C. In the event a concrete base is substituted for a screw-in anchor base, no additional payments will be made for the equipment, labor, materials and incidental costs to construct a suitable concrete base.
115. BREAK-AWAY CONNECTORS (STREET LIGHTS) - FUSED
- A. Final measurement will be based on each completed and installed item.
- B. Payment for break-away connectors shall be based on the unit price per each as set forth in the Agreement, per type or size of connector. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
116. BREAK-AWAY CONNECTORS (STREET LIGHTS) – NON-FUSED
- A. Final measurement will be based on each completed and installed item.
- B. Payment for break-away connectors shall be based on the unit price per each as set forth in the Agreement, per type or size of connector. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
117. JUNCTION BOXES – TYPE 2
- A. Final measurement will be based on each completed and installed item.
- B. Payment for junction shall be based on the unit price per each as set forth in the Agreement, per type or size of pull box. Said price shall include all costs necessary to complete the work including, but not limited to, covers and concrete pads, as required by the drawings and specifications.
118. RELOCATE EXISTING LIGHT POLE WITH NEW BASE
- A. Final measurement will be based on each completed and installed item.

- B. Payment for light pole relocation shall be based on the unit price per each as set forth in the Agreement. Said price shall include all costs necessary to complete the work including, but not limited to, removals, storage, transportation, new anchoring and new breakaway hardware, as required by the drawings and specifications.
119. TREES (ALL TYPES) – 3” CALIPER
- A. Final measurement will be based on each completed and installed item.
- B. Payment for trees shall be based on the unit price per each as set forth in the Agreement, per type or size of tree. Said price shall include all costs necessary to complete the work as required by the drawings and specifications.
120. PERENNIAL/ORNAMENTAL GRASS, 2 GALLON CONT.
- A. Plants shall be measured per each tree, shrub and perennial installed and accepted. Subsidiary items include anti-desiccants, mulch, amendments, fertilizers, herbicides, stakes, guys, and webbing.
- B. Payment shall be at the contract Unit Prices for “Perennial/Ornamental Grass, 2 Gallon Cont.” as listed on the Bid Form, and shall constitute full compensation for all labor, materials, and equipment necessary to complete the work.
121. SHREDDED HARDWOOD MULCH, 3” DEPTH
- A. Final measurement will be based on the cubic yardage of the completed and installed item.
- B. Payment for mulch shall be based on the unit price per cubic yard as set forth in the Agreement, per type of mulch. Said price shall include all costs necessary to complete the work.
122. RIP RAP 3-8” ANGULAR
- A. Final measurement will be based on the square yard of the completed and installed item.
- B. Payment for rip rap shall be based on the unit price per square yard as set forth in the Agreement, per thickness of rip rap. Said price shall include all costs necessary to complete the work including, but not limited to, geotextile, all excavation (earth, rock, shale), backfilling, compacting, grading and removal of excess or unsuitable material, as required by the drawings and specifications.
123. COBBLESTONE BOULDERS
- A. Cobblestone boulders shall be measured per each boulder installed and accepted.
- B. Payment for cobblestone boulders shall be based on the unit price per each boulder as set forth in the Agreement. Said price shall constitute full compensation for all labor, materials, and equipment necessary to complete the work.
124. SOD (ALL TYPES) - TURF

- A. Final measurement will be based on the square yard of the completed and installed item.
- B. Payment for sod shall be based on the unit price per square yard as set forth in the Agreement, per type of sod. Said price shall include all costs necessary to complete the work including, but not limited to, aeration, fertilization, rolling and watering, as required by the drawings and specifications.

125. BIORETENTION FILL SOIL, 24" DEPTH (MARC BMP BLEND)

- A. Final measurement will not be made unless changes to the bid quantity are authorized.
- B. Payment for bioretention fill soil, 24" depth (MARC BMP Blend) shall be based on the unit price per cubic yard as set forth in the Agreement. The quantity in the Agreement identifies the compacted in-place fill volume. Said price shall include all costs necessary to complete the work including, but not limited to, loading, material manipulation, placement, compacting, finish grading, subgrade preparation, and topsoil replacement (including additional materials to sustain plant growth), as required by the drawings and specifications.

END OF SECTION







