

**ADDENDUM SIX
EAST LAKE PARK IMPROVEMENTS
WATER QUALITY PROJECT
CONTRACT NO. S-15-016
CITY OF CHATTANOOGA, TENNESSEE**

The following is in response to Request for Information:

1. **Question** – Request an extension for the bid due date of December 18, 2018.

Response – Yes, the Bid Opening date has been adjusted to Tuesday January 8, 2019. All other associated information regarding time and location remains the same.

Addendum #5 included reference to an updated Bid Schedule and Measurement and Payment form to include updates issued via addendum.

The following is a summary of updates and the new Schedule and Spec Section are attached:

1. In the previous addendum, the Owner and Engineer agreed to modify the bid schedule to change the unit cost item for Concrete Pond Bottom repairs to an allowance because of uncertainty related to the quantities and scope of repairs. This change has been made. Attached to this addendum is a re-issued Bid Schedule with an allowance of \$30,000 for concrete bottom repairs.
2. The measurement and payment description for the Concrete Pond Bottom repairs item (Item 3.07) has been replaced in its entirety with the following:

The Concrete Pond Bottom Repair Allowance is to provide reimbursement for furnishing all labor, material, equipment, and services required for pond bottom damage repairs and pond perimeter concrete repairs necessary to maintain an impervious pond bottom. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized pond bottom repairs are necessary during construction activities. Once the pond is drained and the sediment is removed, the Contractor and Engineer will inspect the site and identify damaged areas that need to be repaired. The Contractor will prepare and submit an estimate to complete the repairs. Only repairs approved by the Owner and Engineer prior to the Contractor initiating the work will be reimbursed at the negotiated cost using this allowance. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3. All text changes related to the Measurement and Payment section included in prior addendums and the text changed noted above in Item 2 of this addendum have been incorporated into a new Measurement and Payment section. Attached to this Addendum is the revised Measurement and Payment Section which replaces the original Measurement and Payment section included in the bid package.

December 13, 2018

/s/ Justin C. Holland, Administrator
City of Chattanooga
Department of Public Works

BID SCHEDULE

East Lake Water Quality Improvement Project
Project No: _____
Chattanooga, Tennessee

Base Bid

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Mobilization/Demobilization	1	LS		
2	Project Record Documents	1	LS		
3	Demolition and Modifications	1	LS		
4	Asphalt Demolition and Disposal	19,110	SF		
5	Dewatering and Drainage				
5a	Pond Sediment Storage	1,100	CY		
5b	Pond Sediment Disposal	1,100	CY		
5c	Dewatering and Drainage	1	LS		
6	Concrete Pond Bottom Repair Allowance	1	LS	\$ 30,000.00	\$ 30,000.00
7	Slope Protection and Erosion Control	1	LS		
8	Landscaping				
8a.1	Wetland Shrub Area Plantings	4,280	SF		
8a.2	Wetland Shrub Area Soil Media	320	CY		
8b.1	Herbaceous Marsh Zone Plantings	15,580	SF		
8b.2	Herbaceous Marsh Zone Soil Media	780	CY		
8c	Meadow Walk/Stream Planting Area	10,000	SF		
8d	Headwater Stream/Steep Slope Planting Area	9,890	SF		
8e	Daylighted Spring/Swale Feature	300	LF		
8f	Beach Access Area	1	LS		
8g	Stream and Meadow Walk Trees and Shrubs				
8g.1	<i>River Birch Trees</i>	9	EA		
8g.2	<i>Betula Lenta Trees</i>	7	EA		
8g.3	<i>Flowering Dogwood Trees</i>	1	EA		
8g.4	<i>Tulip Poplar Trees</i>	3	EA		
8g.5	<i>Cucumber Trees</i>	5	EA		
8g.6	<i>Bigleaf Magnolia Trees</i>	2	EA		
8g.7	<i>American Sycamore Trees</i>	5	EA		
8g.8	<i>Glossy Abelia Shrubs</i>	26	EA		
8g.9	<i>Rhododendron Maximu Shrubs</i>	4	EA		
8g.10	<i>Wild Hydrangea Shrubs</i>	42	EA		
8g.11	<i>St. Andrews Cross Shrubs</i>	37	EA		
8g.12	<i>Mountain Laurel Shrubs</i>	20	EA		
8g.13	<i>Highland Doghobble Shrubs</i>	40	EA		
8h	Landscape Plantings				
8h.1	<i>Dura-Heat River Birch</i>	4	EA		
8h.2	<i>Pee Wee Oakleaf Hydrangea</i>	25	EA		
8h.3	<i>Hypericum</i>	79	EA		
8h.4	<i>Red Sprite Holly</i>	6	EA		
8h.5	<i>Virginia Sweetspire</i>	42	EA		
8h.6	<i>Elf Dwarf Mountain Laurel</i>	120	EA		
8h.7	<i>Anna Rose Rhododendron</i>	46	EA		
8h.8	<i>Tussock Sedge</i>	225	EA		
8h.9	<i>Switchgrass</i>	47	EA		
8h.10	<i>New England Aster (purple)</i>	26	EA		
8h.11	<i>Purple Coneflower</i>	17	EA		
8i	Educational Signage	2	EA		
8j	Miscellaneous Landscaping	1	LS		
9	Submerged Habitat Structures and Fish Stocking				
9a	Habitat Structure				
9a.1	<i>Catfish Nest Box</i>	8	EA		

BID SCHEDULE

East Lake Water Quality Improvement Project
Project No: _____
Chattanooga, Tennessee

Base Bid

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
9a.2	Boulder Pile	3	EA		
9a.3	Artificial Shrub Complex	4	EA		
9a.4	Artificial Brush Complex	3	EA		
9b	Spawning Bed Pea Gravel	32	CY		
9c	Fish Stocking	1	LS		
10	Permeable Surfacing	19,670	SF		
11	Railing Cable Systems				
11a	Wood Guard Rail	482	LF		
11b	Pond Edge Rail	564	LF		
12	Wood Decking	2,660	SF		
13	Electrical				
13a	Pole Top Mounted LED Light Fixture	22	EA		
13b	Die Cast Aluminum Light Pole	22	EA		
13c	Conduit/wiring/trenching (complete-in-place)	1,800	LF		
13d	Pull Box	2	EA		
13e	Building Modifications per Plans	1	LS		
13f	Conduit/trenching (Complete-in-place to assigned poles)	800	LF		
13g	Camera Pull Box	12	EA		

Total Not to Exceed Base Bid Cost Plus Concrete Repair Allowance (Summation of Items 1 - 13):

Additive Alternative Bid

The OWNER may elect and the Bidder agrees to add or replace to the Base Bid Cost all materials, labor, equipment, tools, and incidental costs for the items described below and for the prices listed below to complete all work necessary.

Item	Description	Estimated Quantity	Unit	Unit Price	Total Price
A	Demolition				
A.1	Demo Existing Parking per Cloud on Sheet C-15	1	LS		
A.2	Demo Existing Sidewalk per Cloud on Sheet C-15	1	LS		
B	Bituminous Concrete Pathway	6,900	SF		
C	Bituminous Concrete Parking Area	4,455	SF		
D	Handicap Parking Spaces with Striping and Signage	17	EA		
E	Electrical				
E.1	Pole Top Mounted LED Light Fixture	15	EA		
E.2	Die Cast Aluminum Light Pole	15	EA		
E.3	Conduit/wiring/trenching (complete-in-place)	500	LF		
F	Right-of-Way Improvements				
F.1	Concrete Sidewalk Demolition and Replacement	1,575	SF		
F.2	Miscellaneous Concrete Sidewalk Repairs	875	SF		
F.3	Curb and Gutter	400	LF		
F.4	Concrete Bulb Out	400	SF		
F.5	Handicap Accessible Curb Ramps	2	EA		
F.6	Miscellaneous Drainage System Improvements Allowance	1	LS		

Total Not to Exceed Additive Alternative Bid Cost (Summation of Items A - F):

SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SCOPE

- A. This section describes the methods by which measurement will be made of the quantities for which payment will be made for the project. It is the intention of this Specification that payment will be made for those items listed in the Bid Schedule only. All items of work not specifically listed in the Bid Schedule shall be included in the prices for the various items listed on the bid schedule.
- B. In the case of conflict between this Section and the measurement methods specified in the individual technical Sections, the measurement methods in the technical specifications shall govern.
- C. The Contractor shall receive no payment for any portion of the work until it is installed. The only exception to this is payment for stored materials on site if the Contract provides for the payment of stored materials. Partial payment may be requested for items partially installed.

1.02 RELATED WORK

- A. General Conditions

PART 2 - PRODUCTS

2.01 MEASUREMENT AND PAYMENT

Partial payment shall be made for approved materials stored at the project site at the presentation of material invoices in the proper manner.

PART 3 - EXECUTION

3.01 OTHER SECTIONS

Section 01080 Applicable Codes and Standards
Section 01090 Abbreviations
Section 01150 Measurement and Payment
Section 01220 Progress Meetings
Section 01300 Submittals

Section 01620 Transportation and Handling
Section 01630 Storage and Protection
Section 01700 Cleaning
Section 00717 Mobilization/Demobilization
Section 01720 Project Record Documents
Section 01730 Guarantees and Warranties
Section 02050 Demolitions and Modifications
Section 02100 Site Preparation
Section 02140 Dewatering and Drainage
Section 02270 Slope Protections and Erosion Control
Section 02931 Landscaping
Section 03301 Concrete and Reinforcing Steel
Section 03741 Concrete Repair

3.02 SECTION 00717, MOBILIZATION/DEMobilIZATION

Payment for furnishing all labor, material, equipment, and services required for the site mobilization and demobilization of the project site, including site preparation, traffic control, permitting, bid bond, performance bond, payment bond, project signage, construction site fencing, security, construction trailer, and all other work incidental to these activities not included in other pay items, shall be made at the lump sum price in the Bid Schedule.

3.03 SECTION 01720, PROJECT RECORD DOCUMENTS

Payment for furnishing all labor, material, and services required to produce all project record documents as details in the Drawings and Specifications, including but not limited to as-built drawing development, professional certification, and submittal of Digital and Hard Copies for the project shall be made at the lump sum price in the Bid Schedule.

3.04 SECTION 02050, DEMOLITION AND MODIFICATIONS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for the demolition, modifications and disposal including but not limited to site clearing and grubbing, site grading, disturbed area restoration, drainage structure demolition and associated repair/re-connections, piping demolition and associated repair/re-connection work, electrical demolition and associated repair/re-connection work, fencing, tennis courts, playground, trees and all other related demolition and modification activities not listed separately herein shall be made at the lump sum price in the Bid Schedule.
2. Payment for furnishing all labor, material, equipment, and services required for the demolition of existing parking areas and walkways as part of the Additive Alternative shown on Sheet C-15 of the Drawings and all other related demolition and modification activities not listed separately herein shall be made at the lump sum price in the Additive Alternative Bid Schedule.

3.05 SECTION 02050, ASPHALT DEMOLITION AND DISPOSAL

Payment for furnishing all labor, material, equipment, and services required for the demolition and removal of designated asphalt paving areas shall be made on a per square foot basis at the price listed in the Bid Schedule.

3.06 SECTION 02140, DEWATERING AND DRAINAGE

A. Measurement and Payment

1. Payment for labor, material, equipment and services required for on-site pond sediment storage and associated activities incidental to the work shall be made at the per cubic yard price in the Bid Schedule.
2. Payment for labor, material, equipment and services required for off-site sediment disposal and associated activities incidental to the work shall be made at the per cubic yard price in the Bid Schedule.
3. Payment for furnishing all labor, material, equipment, and services required for pond and excavation dewatering and drainage, including any required bypass pumping, pond drawdown pumping, sediment removal, pond bottom cleaning, excavation dewatering and associated activities incidental to the work and not included in other bid schedule items shall be made at the lump sum price in the Bid Schedule.

3.07 SECTION 03741, CONCRETE POND BOTTOM REPAIR ALLOWANCE

The Concrete Pond Bottom Repair Allowance is to provide reimbursement for furnishing all labor, material, equipment, and services required for pond bottom damage repairs and pond perimeter concrete repairs necessary to maintain an impervious pond bottom. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized pond bottom repairs are necessary during construction activities. Once the pond is drained and the sediment is removed, the Contractor and Engineer will inspect the site and identify damaged areas that need to be repaired. The Contractor will prepare and submit an estimate to complete the repairs. Only repairs approved by the Owner and Engineer prior to the Contractor initiating the work will be reimbursed at the negotiated cost using this allowance. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3.08 SECTION 02270, SLOPE PROTECTION AND EROSION CONTROL

A. Measurement and Payment

1. Measurement and payment for temporary silt fence, filter bags, baled straw checks, temporary sediment basins and any other erosion control practices required by permit for

this project shall be for the materials labor, equipment, etc., for the complete installation of these items included in the lump sum price in the Bid Schedule.

2. No separate payment shall be made for incidental or unlisted erosion control measures nor for cleaning and/or replacement of any measures which become loosened, torn, undermined, or washed out. The cost of this work is to be included in the lump sum bid price for items under Section 02270.

3.09 SECTION 02607, NEW AND REPLACEMENT PAVING AND SIDEWALKS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for bituminous concrete pathways, bituminous concrete parking area, and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
2. Each standard handicap space shall conform to the city of Chattanooga's dimensions and specifications and shall be a lump sum unit price item which includes but is not limited to; stall side line striping, handicap symbol painting, signage, signage pole and footing, and loading area striping.
3. Payment for furnishing all labor, material, equipment and services required to demolish existing concrete sidewalk and replace with new concrete sidewalk including, but not limited to: demolition and disposal of existing concrete sidewalk sections, grading and/or fill to match proposed grading on the plans, installation of new subgrade, repair and/or stabilization to adjacent areas or items impacted by the construction, impacts to above or below ground utilities (including light poles), installation of new concrete sidewalk and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
4. Payment for furnishing all labor, material, equipment and services required to perform miscellaneous repairs to existing concrete sidewalk including, but not limited to: demolition and disposal of existing concrete sections, subgrade repairs, repair and/or stabilization of adjacent areas impacted by the construction, impacts to above or below ground utilities (including light poles), installation of new concrete sidewalk sections and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
5. Payment for furnishing all labor, material, equipment and services required to install concrete bulb outs including, but not limited to: demolition and repair of associated asphalt paving, subgrade preparation, aggregate, backfill, expansion joints, formwork, concrete and all other associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.

3.10 SECTION 02931, LANDSCAPING

A. Measurement and Payment

1. Payment for all labor, material, equipment, services, watering and incidentals required for establishing the wetland shrubs area defined on the plans, including but not limited to: furnishing wetland seed/plants (contract grown if necessary) not included in other bid items; grading; compacting; retaining sill construction; goose fencing; testing; surface preparation; test pits for thickness verification; site restoration; borrow investigations and surveys; conformance to all state, federal, and local standards and requirements; maintenance/warranty requirements and all other work required for or incidental to the satisfactory completion of the work for which payment is not provided under other items in the bid form shall be made at the per square foot price in the Bid Schedule.
2. Payment for all labor, material, equipment, services and incidentals required for furnishing wetland soil media for the wetland shrubs area for which payment is not provided under other items in the bid form shall be made at the per cubic yard price in the Bid Schedule.
3. Payment for all labor, material, equipment, services, watering and incidentals required for establishing the herbaceous marsh zone defined on the plans, including but not limited to: furnishing wetland seed/plants (contract grown if necessary) not included in other bid items; grading; compacting; retaining sill construction; goose fencing; testing; surface preparation; test pits for thickness verification; site restoration; borrow investigations and surveys; retaining sill; conformance to all state, federal, and local standards and requirements; maintenance/warranty and all other work required for or incidental to the satisfactory completion of the work for which payment is not provided under other items in the bid form shall be made at the per square foot price in the Bid Schedule.
4. Payment for all labor, material, equipment, services and incidentals required for furnishing wetland soil media for the herbaceous marsh zone defined on the plans for which payment is not provided under other items in the bid form shall be made at the per cubic yard price in the Bid Schedule.
5. Payment for all labor, materials, equipment, rigging, tools, supervision, watering and incidentals required to furnish and install the meadow walk/stream planting area, including grading, site preparation, soil, soil amendments, maintenance/warranty requirements and all other work incidental to the installation as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per square foot bid price in the Bid Schedule.
6. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, and incidentals required to furnish and install the headwater stream/steep slope planting area, including grading, site preparation, soil, soil amendments, maintenance/warranty requirements and all other work incidental to the installation,

- as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per square foot bid price in the Bid Schedule.
7. Payment for all labor, materials, equipment, rigging, tools, supervision and incidentals required to furnish and install the daylighted spring/swale feature, including but not limited to excavation, grading, stabilization, concrete, stones, boulders extending from the concrete channel centerline to the outer edge of the stone/boulder features and all other work incidental to the installation, as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per linear foot bid price in the Bid Schedule.
 8. Payment for all labor, materials, equipment, tools, supervision and incidentals required to furnish and install the beach access area feature, including but not limited to installation, placement, construction of all crushed rock, stone, pea gravel, boulders, mulch and associated landscape features specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the lump sum price in the Bid Schedule.
 9. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, maintenance/warranty requirements and incidentals required to furnish and install the trees and shrubs listed in the Stream and Meadow Walk Trees and Shrubs table on Sheet CD-3 of the Drawings. All individual trees and shrubs listed, or equivalent as approved by the Engineer, shall be paid per each unit bid price in the Bid Schedule.
 10. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, maintenance/warranty requirements and incidentals required to furnish and install the plants listed in the Plant Schedule table on Sheet L101 of the Drawings. All individual trees, shrubs, plants and grasses listed, or equivalent as approved by the Engineer, shall be paid per each unit bid price in the Bid Schedule.
 11. Payment for all labor, materials, and equipment to furnish and install two education signs including associated layout/graphics provided by the Owner shall be made at the per each price in the Bid Schedule.
 12. Payment for furnishing all labor, materials, equipment, rigging, tools, supervision, services, watering, maintenance/warranty requirements and all other incidentals required to construct stormwater piping, stormwater inlets, stormwater junctions, benches, natural landscape areas, metal edging, grass, refilling of the pond with water, boulder seating features and all other such planting and landscaping shown on the Drawings which payment is not provided under other items in the bid form shall be paid at the lump sum price in the Bid Schedule.

3.11 SECTION 02958, SUBMERGED HABITAT STRUCTURES AND FISH STOCKING

A. Measurement and Payment

1. Each habitat structure as required by these Specifications and/or shown on the Drawings or as directed by the Engineer shall be measured by the individual structure. Payment for habitat structures placed as required by the Drawings or Specifications or as directed by the Engineer shall be made at per unit bid price in the Bid Schedule and shall include the cost of installation.
2. Spawning Bed pea gravel as required by these Specifications and/or shown on the Drawings or as directed by the Engineer shall be measured by the cubic yard. Payment for crushed pea gravel as required by the Drawings or Specifications or as directed by the Engineer shall be made at the per cubic yard bid price in the Bid Schedule.
3. Fish shall be stocked as required by these Specifications and/or shown on the Drawings or as directed by the Engineer by the fish for bluegill, largemouth bass, and channel catfish species and by the pound for flathead minnows. Payment for fish stocking as required by the Drawings or specifications or as directed by the Engineer shall be made for the quantities determined in the manner specified above at the at the lump sum bid price in the Bid Schedule.

3.12 SECTION 03312, PERMEABLE SURFACING

Payment for furnishing all labor, material, equipment, and services required for the pervious walkways on the property including but not limited to the porous pavement, base and subbase preparation shall be made at the per square foot price in the Bid Schedule

3.13 SECTION 05575, RAILING CABLE SYSTEMS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for installation of the wood guard rail (Detail 3, Sheet L200) including associated footings and repair of pond edge wherever damaged shall be made at the per linear foot price in the Bid Schedule
2. Payment for furnishing all labor, material, equipment, and services required for installation of the pond edge rail (Detail 4, Sheet L200) including associated footings and repair of pond edge wherever damaged shall be made at the per linear foot price in the Bid Schedule.

3.14 SECTION 06150, WOOD DECKING

Payment for furnishing all labor, material, equipment, and services required for the boardwalks, foot bridges, and fishing platforms proposed for the site, including associated wood decking, railings, concrete abutments, footings/supports, bollards and under rail lighting shall be made at the per square foot price in the Bid Schedule.

3.15 SECTION 16000, ELECTRICAL

A. Measurement and Payment

1. Payment for furnishing the Pole Top Mounted LED Light Fixtures shall be made at the per each unit price in the Bid Schedule.
2. Payment for furnishing the Die Cast Aluminum Light Poles shall be made at the per each unit price in the Bid Schedule.
3. Payment for furnishing all labor, material, equipment, and services required for installation of conduit within the existing circuit in the walkway and pond areas, including wiring and trenching activities for electrical and camera systems, installation of associated pole and light fixtures along the circuit, connections to all associated fixtures, and other associated activities required to provide a fully functional electrical system not paid for under other pay items shall be made at the per linear foot unit price in the Bid Schedule.
4. Payment for furnishing all labor, material, equipment and services required for installing the Pull Boxes, including connections to all new or existing structures, shall be made at the per each unit price in the Bid Schedule.
5. Payment for furnishing all labor, material, equipment, and services required for demolition and installation to complete the maintenance building electrical modifications on Sheet E-3 of the Drawings shall be paid at the lump sum price in the Bid Schedule.
6. Payment for furnishing all labor, material, equipment, and services required for installation of conduit including wiring and trenching activities for new camera equipment beyond the existing electrical circuit shall be made at the per linear foot unit price in the Bid Schedule.
7. Payment for furnishing all labor, material, equipment and services required to install the Camera Pull Boxes shall be made at the per each unit price in the Bid Schedule.
8. Payment for furnishing the Pole Top Mounted LED Light Fixtures for the Additive Alternative shall be made at the per each unit price in the Additive Alternative Bid Schedule.
9. Payment for furnishing the Die Cast Aluminum Light Poles for the Additive Alternative shall be made at the per each unit price in the Additive Alternative Bid Schedule.
10. Payment for furnishing all labor, material, equipment, and services required for installation of conduit for the lighting systems as specified in the Additive

Alternative, including wiring and trenching activities, installation of associated pole and light fixtures along the circuit, connections to all associated fixtures, and other associated activities required to provide a fully functional electrical system not paid for under other pay items shall be made at the per linear foot unit price in the Additive Alternative Bid Schedule.

3.16 CURB AND GUTTER

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment and services required to install new concrete curb and gutter, complete-in-place, including, but not limited to: demolition and repair of associated asphalt paving, subgrade preparation, aggregate, backfill, expansion joints, formwork, concrete and all other associated activities incidental to the work shall be made at the per liner foot unit price in the Additive Alternative Bid Schedule.

3.17 MISCELLANEOUS DRAINAGE SYSTEM IMPROVEMENTS ALLOWANCE

A. Measurement and Payment

1. The Miscellaneous Drainage System Improvements Allowance is to provide payment to repair or relocate existing drainage structures impacted by the construction or to install new drainage features necessary to maintain adequate drainage following construction. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized drainage system repairs/relocations are necessary during construction activities. All drainage improvements must be approved by the Owner and Engineer prior to construction at a cost to be negotiated between the parties. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3.18 HANDICAP ACCESSIBLE CURB RAMPS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment and services required to install new handicap accessible curb ramps, complete-in-place, including all associated activities incidental to the work shall be made at the per each unit price in the Additive Alternative Bid Schedule.

END OF DOCUMENT

BID SCHEDULE

East Lake Water Quality Improvement Project
Project No: _____
Chattanooga, Tennessee

Base Bid

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1	Mobilization/Demobilization	1	LS		
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3	Demolition and Modifications	1	LS		
4	Asphalt Demolition and Disposal	19,110	SF		
5	Dewatering and Drainage				
5a	Pond Sediment Storage	1,100	CY		
5b	Pond Sediment Disposal	1,100	CY		
5c	Dewatering and Drainage	1	LS		
6	Concrete Pond Bottom Repair Allowance	1	LS	\$ 30,000.00	\$ 30,000.00
7	Slope Protection and Erosion Control	1	LS		
8	Landscaping				
8a.1	Wetland Shrub Area Plantings	4,280	SF		
8a.2	Wetland Shrub Area Soil Media	320	CY		
8b.1	Herbaceous Marsh Zone Plantings	15,580	SF		
8b.2	Herbaceous Marsh Zone Soil Media	780	CY		
8c	Meadow Walk/Stream Planting Area	10,000	SF		
8d	Headwater Stream/Steep Slope Planting Area	9,890	SF		
8e	Daylighted Spring/Swale Feature	300	LF		
8f	Beach Access Area	1	LS		
8g	Stream and Meadow Walk Trees and Shrubs				
8g.1	<i>River Birch Trees</i>	9	EA		
8g.2	<i>Betula Lenta Trees</i>	7	EA		
8g.3	<i>Flowering Dogwood Trees</i>	1	EA		
8g.4	<i>Tulip Poplar Trees</i>	3	EA		
8g.5	<i>Cucumber Trees</i>	5	EA		
8g.6	<i>Bigleaf Magnolia Trees</i>	2	EA		
8g.7	<i>American Sycamore Trees</i>	5	EA		
8g.8	<i>Glossy Abelia Shrubs</i>	26	EA		
8g.9	<i>Rhododendron Maximu Shrubs</i>	4	EA		
8g.10	<i>Wild Hydrangea Shrubs</i>	42	EA		
8g.11	<i>St. Andrews Cross Shrubs</i>	37	EA		
8g.12	<i>Mountain Laurel Shrubs</i>	20	EA		
8g.13	<i>Highland Doghobble Shrubs</i>	40	EA		
8h	Landscape Plantings				
8h.1	<i>Dura-Heat River Birch</i>	4	EA		
8h.2	<i>Pee Wee Oakleaf Hydrangea</i>	25	EA		
8h.3	<i>Hypericum</i>	79	EA		
8h.4	<i>Red Sprite Holly</i>	6	EA		
8h.5	<i>Virginia Sweetspire</i>	42	EA		
8h.6	<i>Elf Dwarf Mountain Laurel</i>	120	EA		
8h.7	<i>Anna Rose Rhododendron</i>	46	EA		
8h.8	<i>Tussock Sedge</i>	225	EA		
8h.9	<i>Switchgrass</i>	47	EA		
8h.10	<i>New England Aster (purple)</i>	26	EA		
8h.11	<i>Purple Coneflower</i>	17	EA		
8i	Educational Signage	2	EA		
8j	Miscellaneous Landscaping	1	LS		
9	Submerged Habitat Structures and Fish Stocking				
9a	Habitat Structure				
9a.1	<i>Catfish Nest Box</i>	8	EA		

BID SCHEDULE

East Lake Water Quality Improvement Project
Project No: _____
Chattanooga, Tennessee

Base Bid

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
9a.2	Boulder Pile	3	EA		
9a.3	Artificial Shrub Complex	4	EA		
9a.4	Artificial Brush Complex	3	EA		
9b	Spawning Bed Pea Gravel	32	CY		
9c	Fish Stocking	1	LS		
10	Permeable Surfacing	19,670	SF		
11	Railing Cable Systems				
11a	Wood Guard Rail	482	LF		
11b	Pond Edge Rail	564	LF		
12	Wood Decking	2,660	SF		
13	Electrical				
13a	Pole Top Mounted LED Light Fixture	22	EA		
13b	Die Cast Aluminum Light Pole	22	EA		
13c	Conduit/wiring/trenching (complete-in-place)	1,800	LF		
13d	Pull Box	2	EA		
13e	Building Modifications per Plans	1	LS		
13f	Conduit/trenching (Complete-in-place to assigned poles)	800	LF		
13g	Camera Pull Box	12	EA		

Total Not to Exceed Base Bid Cost Plus Concrete Repair Allowance (Summation of Items 1 - 13):

Additive Alternative Bid

The OWNER may elect and the Bidder agrees to add or replace to the Base Bid Cost all materials, labor, equipment, tools, and incidental costs for the items described below and for the prices listed below to complete all work necessary.

Item	Description	Estimated Quantity	Unit	Unit Price	Total Price
A	Demolition				
A.1	Demo Existing Parking per Cloud on Sheet C-15	1	LS		
A.2	Demo Existing Sidewalk per Cloud on Sheet C-15	1	LS		
B	Bituminous Concrete Pathway	6,900	SF		
C	Bituminous Concrete Parking Area	4,455	SF		
D	Handicap Parking Spaces with Striping and Signage	17	EA		
E	Electrical				
E.1	Pole Top Mounted LED Light Fixture	15	EA		
E.2	Die Cast Aluminum Light Pole	15	EA		
E.3	Conduit/wiring/trenching (complete-in-place)	500	LF		
F	Right-of-Way Improvements				
F.1	Concrete Sidewalk Demolition and Replacement	1,575	SF		
F.2	Miscellaneous Concrete Sidewalk Repairs	875	SF		
F.3	Curb and Gutter	400	LF		
F.4	Concrete Bulb Out	400	SF		
F.5	Handicap Accessible Curb Ramps	2	EA		
F.6	Miscellaneous Drainage System Improvements Allowance	1	LS		

Total Not to Exceed Additive Alternative Bid Cost (Summation of Items A - F):

SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SCOPE

- A. This section describes the methods by which measurement will be made of the quantities for which payment will be made for the project. It is the intention of this Specification that payment will be made for those items listed in the Bid Schedule only. All items of work not specifically listed in the Bid Schedule shall be included in the prices for the various items listed on the bid schedule.
- B. In the case of conflict between this Section and the measurement methods specified in the individual technical Sections, the measurement methods in the technical specifications shall govern.
- C. The Contractor shall receive no payment for any portion of the work until it is installed. The only exception to this is payment for stored materials on site if the Contract provides for the payment of stored materials. Partial payment may be requested for items partially installed.

1.02 RELATED WORK

- A. General Conditions

PART 2 - PRODUCTS

2.01 MEASUREMENT AND PAYMENT

Partial payment shall be made for approved materials stored at the project site at the presentation of material invoices in the proper manner.

PART 3 - EXECUTION

3.01 OTHER SECTIONS

Section 01080 Applicable Codes and Standards
Section 01090 Abbreviations
Section 01150 Measurement and Payment
Section 01220 Progress Meetings
Section 01300 Submittals

Section 01620 Transportation and Handling
Section 01630 Storage and Protection
Section 01700 Cleaning
Section 00717 Mobilization/Demobilization
Section 01720 Project Record Documents
Section 01730 Guarantees and Warranties
Section 02050 Demolitions and Modifications
Section 02100 Site Preparation
Section 02140 Dewatering and Drainage
Section 02270 Slope Protections and Erosion Control
Section 02931 Landscaping
Section 03301 Concrete and Reinforcing Steel
Section 03741 Concrete Repair

3.02 SECTION 00717, MOBILIZATION/DEMobilIZATION

Payment for furnishing all labor, material, equipment, and services required for the site mobilization and demobilization of the project site, including site preparation, traffic control, permitting, bid bond, performance bond, payment bond, project signage, construction site fencing, security, construction trailer, and all other work incidental to these activities not included in other pay items, shall be made at the lump sum price in the Bid Schedule.

3.03 SECTION 01720, PROJECT RECORD DOCUMENTS

Payment for furnishing all labor, material, and services required to produce all project record documents as details in the Drawings and Specifications, including but not limited to as-built drawing development, professional certification, and submittal of Digital and Hard Copies for the project shall be made at the lump sum price in the Bid Schedule.

3.04 SECTION 02050, DEMOLITION AND MODIFICATIONS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for the demolition, modifications and disposal including but not limited to site clearing and grubbing, site grading, disturbed area restoration, drainage structure demolition and associated repair/re-connections, piping demolition and associated repair/re-connection work, electrical demolition and associated repair/re-connection work, fencing, tennis courts, playground, trees and all other related demolition and modification activities not listed separately herein shall be made at the lump sum price in the Bid Schedule.
2. Payment for furnishing all labor, material, equipment, and services required for the demolition of existing parking areas and walkways as part of the Additive Alternative shown on Sheet C-15 of the Drawings and all other related demolition and modification activities not listed separately herein shall be made at the lump sum price in the Additive Alternative Bid Schedule.

3.05 SECTION 02050, ASPHALT DEMOLITION AND DISPOSAL

Payment for furnishing all labor, material, equipment, and services required for the demolition and removal of designated asphalt paving areas shall be made on a per square foot basis at the price listed in the Bid Schedule.

3.06 SECTION 02140, DEWATERING AND DRAINAGE

A. Measurement and Payment

1. Payment for labor, material, equipment and services required for on-site pond sediment storage and associated activities incidental to the work shall be made at the per cubic yard price in the Bid Schedule.
2. Payment for labor, material, equipment and services required for off-site sediment disposal and associated activities incidental to the work shall be made at the per cubic yard price in the Bid Schedule.
3. Payment for furnishing all labor, material, equipment, and services required for pond and excavation dewatering and drainage, including any required bypass pumping, pond drawdown pumping, sediment removal, pond bottom cleaning, excavation dewatering and associated activities incidental to the work and not included in other bid schedule items shall be made at the lump sum price in the Bid Schedule.

3.07 SECTION 03741, CONCRETE POND BOTTOM REPAIR ALLOWANCE

The Concrete Pond Bottom Repair Allowance is to provide reimbursement for furnishing all labor, material, equipment, and services required for pond bottom damage repairs and pond perimeter concrete repairs necessary to maintain an impervious pond bottom. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized pond bottom repairs are necessary during construction activities. Once the pond is drained and the sediment is removed, the Contractor and Engineer will inspect the site and identify damaged areas that need to be repaired. The Contractor will prepare and submit an estimate to complete the repairs. Only repairs approved by the Owner and Engineer prior to the Contractor initiating the work will be reimbursed at the negotiated cost using this allowance. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3.08 SECTION 02270, SLOPE PROTECTION AND EROSION CONTROL

A. Measurement and Payment

1. Measurement and payment for temporary silt fence, filter bags, baled straw checks, temporary sediment basins and any other erosion control practices required by permit for

this project shall be for the materials labor, equipment, etc., for the complete installation of these items included in the lump sum price in the Bid Schedule.

2. No separate payment shall be made for incidental or unlisted erosion control measures nor for cleaning and/or replacement of any measures which become loosened, torn, undermined, or washed out. The cost of this work is to be included in the lump sum bid price for items under Section 02270.

3.09 SECTION 02607, NEW AND REPLACEMENT PAVING AND SIDEWALKS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for bituminous concrete pathways, bituminous concrete parking area, and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
2. Each standard handicap space shall conform to the city of Chattanooga's dimensions and specifications and shall be a lump sum unit price item which includes but is not limited to; stall side line striping, handicap symbol painting, signage, signage pole and footing, and loading area striping.
3. Payment for furnishing all labor, material, equipment and services required to demolish existing concrete sidewalk and replace with new concrete sidewalk including, but not limited to: demolition and disposal of existing concrete sidewalk sections, grading and/or fill to match proposed grading on the plans, installation of new subgrade, repair and/or stabilization to adjacent areas or items impacted by the construction, impacts to above or below ground utilities (including light poles), installation of new concrete sidewalk and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
4. Payment for furnishing all labor, material, equipment and services required to perform miscellaneous repairs to existing concrete sidewalk including, but not limited to: demolition and disposal of existing concrete sections, subgrade repairs, repair and/or stabilization of adjacent areas impacted by the construction, impacts to above or below ground utilities (including light poles), installation of new concrete sidewalk sections and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
5. Payment for furnishing all labor, material, equipment and services required to install concrete bulb outs including, but not limited to: demolition and repair of associated asphalt paving, subgrade preparation, aggregate, backfill, expansion joints, formwork, concrete and all other associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.

3.10 SECTION 02931, LANDSCAPING

A. Measurement and Payment

1. Payment for all labor, material, equipment, services, watering and incidentals required for establishing the wetland shrubs area defined on the plans, including but not limited to: furnishing wetland seed/plants (contract grown if necessary) not included in other bid items; grading; compacting; retaining sill construction; goose fencing; testing; surface preparation; test pits for thickness verification; site restoration; borrow investigations and surveys; conformance to all state, federal, and local standards and requirements; maintenance/warranty requirements and all other work required for or incidental to the satisfactory completion of the work for which payment is not provided under other items in the bid form shall be made at the per square foot price in the Bid Schedule.
2. Payment for all labor, material, equipment, services and incidentals required for furnishing wetland soil media for the wetland shrubs area for which payment is not provided under other items in the bid form shall be made at the per cubic yard price in the Bid Schedule.
3. Payment for all labor, material, equipment, services, watering and incidentals required for establishing the herbaceous marsh zone defined on the plans, including but not limited to: furnishing wetland seed/plants (contract grown if necessary) not included in other bid items; grading; compacting; retaining sill construction; goose fencing; testing; surface preparation; test pits for thickness verification; site restoration; borrow investigations and surveys; retaining sill; conformance to all state, federal, and local standards and requirements; maintenance/warranty and all other work required for or incidental to the satisfactory completion of the work for which payment is not provided under other items in the bid form shall be made at the per square foot price in the Bid Schedule.
4. Payment for all labor, material, equipment, services and incidentals required for furnishing wetland soil media for the herbaceous marsh zone defined on the plans for which payment is not provided under other items in the bid form shall be made at the per cubic yard price in the Bid Schedule.
5. Payment for all labor, materials, equipment, rigging, tools, supervision, watering and incidentals required to furnish and install the meadow walk/stream planting area, including grading, site preparation, soil, soil amendments, maintenance/warranty requirements and all other work incidental to the installation as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per square foot bid price in the Bid Schedule.
6. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, and incidentals required to furnish and install the headwater stream/steep slope planting area, including grading, site preparation, soil, soil amendments, maintenance/warranty requirements and all other work incidental to the installation,

as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per square foot bid price in the Bid Schedule.

7. Payment for all labor, materials, equipment, rigging, tools, supervision and incidentals required to furnish and install the daylighted spring/swale feature, including but not limited to excavation, grading, stabilization, concrete, stones, boulders extending from the concrete channel centerline to the outer edge of the stone/boulder features and all other work incidental to the installation, as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per linear foot bid price in the Bid Schedule.
8. Payment for all labor, materials, equipment, tools, supervision and incidentals required to furnish and install the beach access area feature, including but not limited to installation, placement, construction of all crushed rock, stone, pea gravel, boulders, mulch and associated landscape features specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the lump sum price in the Bid Schedule.
9. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, maintenance/warranty requirements and incidentals required to furnish and install the trees and shrubs listed in the Stream and Meadow Walk Trees and Shrubs table on Sheet CD-3 of the Drawings. All individual trees and shrubs listed, or equivalent as approved by the Engineer, shall be paid per each unit bid price in the Bid Schedule.
10. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, maintenance/warranty requirements and incidentals required to furnish and install the plants listed in the Plant Schedule table on Sheet L101 of the Drawings. All individual trees, shrubs, plants and grasses listed, or equivalent as approved by the Engineer, shall be paid per each unit bid price in the Bid Schedule.
11. Payment for all labor, materials, and equipment to furnish and install two education signs including associated layout/graphics provided by the Owner shall be made at the per each price in the Bid Schedule.
12. Payment for furnishing all labor, materials, equipment, rigging, tools, supervision, services, watering, maintenance/warranty requirements and all other incidentals required to construct stormwater piping, stormwater inlets, stormwater junctions, benches, natural landscape areas, metal edging, grass, refilling of the pond with water, boulder seating features and all other such planting and landscaping shown on the Drawings which payment is not provided under other items in the bid form shall be paid at the lump sum price in the Bid Schedule.

3.11 SECTION 02958, SUBMERGED HABITAT STRUCTURES AND FISH STOCKING

A. Measurement and Payment

1. Each habitat structure as required by these Specifications and/or shown on the Drawings or as directed by the Engineer shall be measured by the individual structure. Payment for habitat structures placed as required by the Drawings or Specifications or as directed by the Engineer shall be made at per unit bid price in the Bid Schedule and shall include the cost of installation.
2. Spawning Bed pea gravel as required by these Specifications and/or shown on the Drawings or as directed by the Engineer shall be measured by the cubic yard. Payment for crushed pea gravel as required by the Drawings or Specifications or as directed by the Engineer shall be made at the per cubic yard bid price in the Bid Schedule.
3. Fish shall be stocked as required by these Specifications and/or shown on the Drawings or as directed by the Engineer by the fish for bluegill, largemouth bass, and channel catfish species and by the pound for flathead minnows. Payment for fish stocking as required by the Drawings or specifications or as directed by the Engineer shall be made for the quantities determined in the manner specified above at the at the lump sum bid price in the Bid Schedule.

3.12 SECTION 03312, PERMEABLE SURFACING

Payment for furnishing all labor, material, equipment, and services required for the pervious walkways on the property including but not limited to the porous pavement, base and subbase preparation shall be made at the per square foot price in the Bid Schedule

3.13 SECTION 05575, RAILING CABLE SYSTEMS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for installation of the wood guard rail (Detail 3, Sheet L200) including associated footings and repair of pond edge wherever damaged shall be made at the per linear foot price in the Bid Schedule
2. Payment for furnishing all labor, material, equipment, and services required for installation of the pond edge rail (Detail 4, Sheet L200) including associated footings and repair of pond edge wherever damaged shall be made at the per linear foot price in the Bid Schedule.

3.14 SECTION 06150, WOOD DECKING

Payment for furnishing all labor, material, equipment, and services required for the boardwalks, foot bridges, and fishing platforms proposed for the site, including associated wood decking, railings, concrete abutments, footings/supports, bollards and under rail lighting shall be made at the per square foot price in the Bid Schedule.

3.15 SECTION 16000, ELECTRICAL

A. Measurement and Payment

1. Payment for furnishing the Pole Top Mounted LED Light Fixtures shall be made at the per each unit price in the Bid Schedule.
2. Payment for furnishing the Die Cast Aluminum Light Poles shall be made at the per each unit price in the Bid Schedule.
3. Payment for furnishing all labor, material, equipment, and services required for installation of conduit within the existing circuit in the walkway and pond areas, including wiring and trenching activities for electrical and camera systems, installation of associated pole and light fixtures along the circuit, connections to all associated fixtures, and other associated activities required to provide a fully functional electrical system not paid for under other pay items shall be made at the per linear foot unit price in the Bid Schedule.
4. Payment for furnishing all labor, material, equipment and services required for installing the Pull Boxes, including connections to all new or existing structures, shall be made at the per each unit price in the Bid Schedule.
5. Payment for furnishing all labor, material, equipment, and services required for demolition and installation to complete the maintenance building electrical modifications on Sheet E-3 of the Drawings shall be paid at the lump sum price in the Bid Schedule.
6. Payment for furnishing all labor, material, equipment, and services required for installation of conduit including wiring and trenching activities for new camera equipment beyond the existing electrical circuit shall be made at the per linear foot unit price in the Bid Schedule.
7. Payment for furnishing all labor, material, equipment and services required to install the Camera Pull Boxes shall be made at the per each unit price in the Bid Schedule.
8. Payment for furnishing the Pole Top Mounted LED Light Fixtures for the Additive Alternative shall be made at the per each unit price in the Additive Alternative Bid Schedule.
9. Payment for furnishing the Die Cast Aluminum Light Poles for the Additive Alternative shall be made at the per each unit price in the Additive Alternative Bid Schedule.
10. Payment for furnishing all labor, material, equipment, and services required for installation of conduit for the lighting systems as specified in the Additive

Alternative, including wiring and trenching activities, installation of associated pole and light fixtures along the circuit, connections to all associated fixtures, and other associated activities required to provide a fully functional electrical system not paid for under other pay items shall be made at the per linear foot unit price in the Additive Alternative Bid Schedule.

3.16 CURB AND GUTTER

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment and services required to install new concrete curb and gutter, complete-in-place, including, but not limited to: demolition and repair of associated asphalt paving, subgrade preparation, aggregate, backfill, expansion joints, formwork, concrete and all other associated activities incidental to the work shall be made at the per linear foot unit price in the Additive Alternative Bid Schedule.

3.17 MISCELLANEOUS DRAINAGE SYSTEM IMPROVEMENTS ALLOWANCE

A. Measurement and Payment

1. The Miscellaneous Drainage System Improvements Allowance is to provide payment to repair or relocate existing drainage structures impacted by the construction or to install new drainage features necessary to maintain adequate drainage following construction. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized drainage system repairs/relocations are necessary during construction activities. All drainage improvements must be approved by the Owner and Engineer prior to construction at a cost to be negotiated between the parties. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3.18 HANDICAP ACCESSIBLE CURB RAMPS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment and services required to install new handicap accessible curb ramps, complete-in-place, including all associated activities incidental to the work shall be made at the per each unit price in the Additive Alternative Bid Schedule.

END OF DOCUMENT

SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SCOPE

- A. This section describes the methods by which measurement will be made of the quantities for which payment will be made for the project. It is the intention of this Specification that payment will be made for those items listed in the Bid Schedule only. All items of work not specifically listed in the Bid Schedule shall be included in the prices for the various items listed on the bid schedule.
- B. In the case of conflict between this Section and the measurement methods specified in the individual technical Sections, the measurement methods in the technical specifications shall govern.
- C. The Contractor shall receive no payment for any portion of the work until it is installed. The only exception to this is payment for stored materials on site if the Contract provides for the payment of stored materials. Partial payment may be requested for items partially installed.

1.02 RELATED WORK

- A. General Conditions

PART 2 - PRODUCTS

2.01 MEASUREMENT AND PAYMENT

Partial payment shall be made for approved materials stored at the project site at the presentation of material invoices in the proper manner.

PART 3 - EXECUTION

3.01 OTHER SECTIONS

Section 01080 Applicable Codes and Standards
Section 01090 Abbreviations
Section 01150 Measurement and Payment
Section 01220 Progress Meetings
Section 01300 Submittals

Section 01620 Transportation and Handling
Section 01630 Storage and Protection
Section 01700 Cleaning
Section 00717 Mobilization/Demobilization
Section 01720 Project Record Documents
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Section 02050 Demolitions and Modifications
Section 02100 Site Preparation
Section 02140 Dewatering and Drainage
Section 02270 Slope Protections and Erosion Control
Section 02931 Landscaping
Section 03301 Concrete and Reinforcing Steel
Section 03741 Concrete Repair

3.02 SECTION 00717, MOBILIZATION/DEMOBILIZATION

Payment for furnishing all labor, material, equipment, and services required for the site mobilization and demobilization of the project site, including site preparation, traffic control, permitting, bid bond, performance bond, payment bond, project signage, construction site fencing, security, construction trailer, and all other work incidental to these activities not included in other pay items, shall be made at the lump sum price in the Bid Schedule.

3.03 SECTION 01720, PROJECT RECORD DOCUMENTS

Payment for furnishing all labor, material, and services required to produce all project record documents as details in the Drawings and Specifications, including but not limited to as-built drawing development, professional certification, and submittal of Digital and Hard Copies for the project shall be made at the lump sum price in the Bid Schedule.

3.04 SECTION 02050, DEMOLITION AND MODIFICATIONS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for the demolition, modifications and disposal including but not limited to site clearing and grubbing, site grading, disturbed area restoration, drainage structure demolition and associated repair/re-connections, piping demolition and associated repair/re-connection work, electrical demolition and associated repair/re-connection work, fencing, tennis courts, playground, trees and all other related demolition and modification activities not listed separately herein shall be made at the lump sum price in the Bid Schedule.
2. Payment for furnishing all labor, material, equipment, and services required for the demolition of existing parking areas and walkways as part of the Additive Alternative shown on Sheet C-15 of the Drawings and all other related demolition and modification activities not listed separately herein shall be made at the lump sum price in the Additive Alternative Bid Schedule.

3.05 SECTION 02050, ASPHALT DEMOLITION AND DISPOSAL

Payment for furnishing all labor, material, equipment, and services required for the demolition and removal of designated asphalt paving areas shall be made on a per square foot basis at the price listed in the Bid Schedule.

3.06 SECTION 02140, DEWATERING AND DRAINAGE

A. Measurement and Payment

1. Payment for labor, material, equipment and services required for on-site pond sediment storage and associated activities incidental to the work shall be made at the per cubic yard price in the Bid Schedule.
2. Payment for labor, material, equipment and services required for off-site sediment disposal and associated activities incidental to the work shall be made at the per cubic yard price in the Bid Schedule.
3. Payment for furnishing all labor, material, equipment, and services required for pond and excavation dewatering and drainage, including any required bypass pumping, pond drawdown pumping, sediment removal, pond bottom cleaning, excavation dewatering and associated activities incidental to the work and not included in other bid schedule items shall be made at the lump sum price in the Bid Schedule.

3.07 SECTION 03741, CONCRETE POND BOTTOM REPAIR ALLOWANCE

The Concrete Pond Bottom Repair Allowance is to provide reimbursement for furnishing all labor, material, equipment, and services required for pond bottom damage repairs and pond perimeter concrete repairs necessary to maintain an impervious pond bottom. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized pond bottom repairs are necessary during construction activities. Once the pond is drained and the sediment is removed, the Contractor and Engineer will inspect the site and identify damaged areas that need to be repaired. The Contractor will prepare and submit an estimate to complete the repairs. Only repairs approved by the Owner and Engineer prior to the Contractor initiating the work will be reimbursed at the negotiated cost using this allowance. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3.08 SECTION 02270, SLOPE PROTECTION AND EROSION CONTROL

A. Measurement and Payment

1. Measurement and payment for temporary silt fence, filter bags, baled straw checks, temporary sediment basins and any other erosion control practices required by permit for

this project shall be for the materials labor, equipment, etc., for the complete installation of these items included in the lump sum price in the Bid Schedule.

2. No separate payment shall be made for incidental or unlisted erosion control measures nor for cleaning and/or replacement of any measures which become loosened, torn, undermined, or washed out. The cost of this work is to be included in the lump sum bid price for items under Section 02270.

3.09 SECTION 02607, NEW AND REPLACEMENT PAVING AND SIDEWALKS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for bituminous concrete pathways, bituminous concrete parking area, and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
2. Each standard handicap space shall conform to the city of Chattanooga's dimensions and specifications and shall be a lump sum unit price item which includes but is not limited to; stall side line striping, handicap symbol painting, signage, signage pole and footing, and loading area striping.
3. Payment for furnishing all labor, material, equipment and services required to demolish existing concrete sidewalk and replace with new concrete sidewalk including, but not limited to: demolition and disposal of existing concrete sidewalk sections, grading and/or fill to match proposed grading on the plans, installation of new subgrade, repair and/or stabilization to adjacent areas or items impacted by the construction, impacts to above or below ground utilities (including light poles), installation of new concrete sidewalk and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
4. Payment for furnishing all labor, material, equipment and services required to perform miscellaneous repairs to existing concrete sidewalk including, but not limited to: demolition and disposal of existing concrete sections, subgrade repairs, repair and/or stabilization of adjacent areas impacted by the construction, impacts to above or below ground utilities (including light poles), installation of new concrete sidewalk sections and associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.
5. Payment for furnishing all labor, material, equipment and services required to install concrete bulb outs including, but not limited to: demolition and repair of associated asphalt paving, subgrade preparation, aggregate, backfill, expansion joints, formwork, concrete and all other associated activities incidental to the work shall be made at the per square foot unit price in the Additive Alternative Bid Schedule.

3.10 SECTION 02931, LANDSCAPING

A. Measurement and Payment

1. Payment for all labor, material, equipment, services, watering and incidentals required for establishing the wetland shrubs area defined on the plans, including but not limited to: furnishing wetland seed/plants (contract grown if necessary) not included in other bid items; grading; compacting; retaining sill construction; goose fencing; testing; surface preparation; test pits for thickness verification; site restoration; borrow investigations and surveys; conformance to all state, federal, and local standards and requirements; maintenance/warranty requirements and all other work required for or incidental to the satisfactory completion of the work for which payment is not provided under other items in the bid form shall be made at the per square foot price in the Bid Schedule.
2. Payment for all labor, material, equipment, services and incidentals required for furnishing wetland soil media for the wetland shrubs area for which payment is not provided under other items in the bid form shall be made at the per cubic yard price in the Bid Schedule.
3. Payment for all labor, material, equipment, services, watering and incidentals required for establishing the herbaceous marsh zone defined on the plans, including but not limited to: furnishing wetland seed/plants (contract grown if necessary) not included in other bid items; grading; compacting; retaining sill construction; goose fencing; testing; surface preparation; test pits for thickness verification; site restoration; borrow investigations and surveys; retaining sill; conformance to all state, federal, and local standards and requirements; maintenance/warranty and all other work required for or incidental to the satisfactory completion of the work for which payment is not provided under other items in the bid form shall be made at the per square foot price in the Bid Schedule.
4. Payment for all labor, material, equipment, services and incidentals required for furnishing wetland soil media for the herbaceous marsh zone defined on the plans for which payment is not provided under other items in the bid form shall be made at the per cubic yard price in the Bid Schedule.
5. Payment for all labor, materials, equipment, rigging, tools, supervision, watering and incidentals required to furnish and install the meadow walk/stream planting area, including grading, site preparation, soil, soil amendments, maintenance/warranty requirements and all other work incidental to the installation as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per square foot bid price in the Bid Schedule.
6. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, and incidentals required to furnish and install the headwater stream/steep slope planting area, including grading, site preparation, soil, soil amendments, maintenance/warranty requirements and all other work incidental to the installation,

- as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per square foot bid price in the Bid Schedule.
7. Payment for all labor, materials, equipment, rigging, tools, supervision and incidentals required to furnish and install the daylighted spring/swale feature, including but not limited to excavation, grading, stabilization, concrete, stones, boulders extending from the concrete channel centerline to the outer edge of the stone/boulder features and all other work incidental to the installation, as shown and specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the per linear foot bid price in the Bid Schedule.
 8. Payment for all labor, materials, equipment, tools, supervision and incidentals required to furnish and install the beach access area feature, including but not limited to installation, placement, construction of all crushed rock, stone, pea gravel, boulders, mulch and associated landscape features specified on the Drawings for which payment is not provided under other items in the bid form shall be made at the lump sum price in the Bid Schedule.
 9. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, maintenance/warranty requirements and incidentals required to furnish and install the trees and shrubs listed in the Stream and Meadow Walk Trees and Shrubs table on Sheet CD-3 of the Drawings. All individual trees and shrubs listed, or equivalent as approved by the Engineer, shall be paid per each unit bid price in the Bid Schedule.
 10. Payment for all labor, materials, equipment, rigging, tools, watering, supervision, maintenance/warranty requirements and incidentals required to furnish and install the plants listed in the Plant Schedule table on Sheet L101 of the Drawings. All individual trees, shrubs, plants and grasses listed, or equivalent as approved by the Engineer, shall be paid per each unit bid price in the Bid Schedule.
 11. Payment for all labor, materials, and equipment to furnish and install two education signs including associated layout/graphics provided by the Owner shall be made at the per each price in the Bid Schedule.
 12. Payment for furnishing all labor, materials, equipment, rigging, tools, supervision, services, watering, maintenance/warranty requirements and all other incidentals required to construct stormwater piping, stormwater inlets, stormwater junctions, benches, natural landscape areas, metal edging, grass, refilling of the pond with water, boulder seating features and all other such planting and landscaping shown on the Drawings which payment is not provided under other items in the bid form shall be paid at the lump sum price in the Bid Schedule.

3.11 SECTION 02958, SUBMERGED HABITAT STRUCTURES AND FISH STOCKING

A. Measurement and Payment

1. Each habitat structure as required by these Specifications and/or shown on the Drawings or as directed by the Engineer shall be measured by the individual structure. Payment for habitat structures placed as required by the Drawings or Specifications or as directed by the Engineer shall be made at per unit bid price in the Bid Schedule and shall include the cost of installation.
2. Spawning Bed pea gravel as required by these Specifications and/or shown on the Drawings or as directed by the Engineer shall be measured by the cubic yard. Payment for crushed pea gravel as required by the Drawings or Specifications or as directed by the Engineer shall be made at the per cubic yard bid price in the Bid Schedule.
3. Fish shall be stocked as required by these Specifications and/or shown on the Drawings or as directed by the Engineer by the fish for bluegill, largemouth bass, and channel catfish species and by the pound for flathead minnows. Payment for fish stocking as required by the Drawings or specifications or as directed by the Engineer shall be made for the quantities determined in the manner specified above at the at the lump sum bid price in the Bid Schedule.

3.12 SECTION 03312, PERMEABLE SURFACING

Payment for furnishing all labor, material, equipment, and services required for the pervious walkways on the property including but not limited to the porous pavement, base and subbase preparation shall be made at the per square foot price in the Bid Schedule

3.13 SECTION 05575, RAILING CABLE SYSTEMS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment, and services required for installation of the wood guard rail (Detail 3, Sheet L200) including associated footings and repair of pond edge wherever damaged shall be made at the per linear foot price in the Bid Schedule
2. Payment for furnishing all labor, material, equipment, and services required for installation of the pond edge rail (Detail 4, Sheet L200) including associated footings and repair of pond edge wherever damaged shall be made at the per linear foot price in the Bid Schedule.

3.14 SECTION 06150, WOOD DECKING

Payment for furnishing all labor, material, equipment, and services required for the boardwalks, foot bridges, and fishing platforms proposed for the site, including associated wood decking, railings, concrete abutments, footings/supports, bollards and under rail lighting shall be made at the per square foot price in the Bid Schedule.

3.15 SECTION 16000, ELECTRICAL

A. Measurement and Payment

1. Payment for furnishing the Pole Top Mounted LED Light Fixtures shall be made at the per each unit price in the Bid Schedule.
2. Payment for furnishing the Die Cast Aluminum Light Poles shall be made at the per each unit price in the Bid Schedule.
3. Payment for furnishing all labor, material, equipment, and services required for installation of conduit within the existing circuit in the walkway and pond areas, including wiring and trenching activities for electrical and camera systems, installation of associated pole and light fixtures along the circuit, connections to all associated fixtures, and other associated activities required to provide a fully functional electrical system not paid for under other pay items shall be made at the per linear foot unit price in the Bid Schedule.
4. Payment for furnishing all labor, material, equipment and services required for installing the Pull Boxes, including connections to all new or existing structures, shall be made at the per each unit price in the Bid Schedule.
5. Payment for furnishing all labor, material, equipment, and services required for demolition and installation to complete the maintenance building electrical modifications on Sheet E-3 of the Drawings shall be paid at the lump sum price in the Bid Schedule.
6. Payment for furnishing all labor, material, equipment, and services required for installation of conduit including wiring and trenching activities for new camera equipment beyond the existing electrical circuit shall be made at the per linear foot unit price in the Bid Schedule.
7. Payment for furnishing all labor, material, equipment and services required to install the Camera Pull Boxes shall be made at the per each unit price in the Bid Schedule.
8. Payment for furnishing the Pole Top Mounted LED Light Fixtures for the Additive Alternative shall be made at the per each unit price in the Additive Alternative Bid Schedule.
9. Payment for furnishing the Die Cast Aluminum Light Poles for the Additive Alternative shall be made at the per each unit price in the Additive Alternative Bid Schedule.
10. Payment for furnishing all labor, material, equipment, and services required for installation of conduit for the lighting systems as specified in the Additive

Alternative, including wiring and trenching activities, installation of associated pole and light fixtures along the circuit, connections to all associated fixtures, and other associated activities required to provide a fully functional electrical system not paid for under other pay items shall be made at the per linear foot unit price in the Additive Alternative Bid Schedule.

3.16 CURB AND GUTTER

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment and services required to install new concrete curb and gutter, complete-in-place, including, but not limited to: demolition and repair of associated asphalt paving, subgrade preparation, aggregate, backfill, expansion joints, formwork, concrete and all other associated activities incidental to the work shall be made at the per liner foot unit price in the Additive Alternative Bid Schedule.

3.17 MISCELLANEOUS DRAINAGE SYSTEM IMPROVEMENTS ALLOWANCE

A. Measurement and Payment

1. The Miscellaneous Drainage System Improvements Allowance is to provide payment to repair or relocate existing drainage structures impacted by the construction or to install new drainage features necessary to maintain adequate drainage following construction. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized drainage system repairs/relocations are necessary during construction activities. All drainage improvements must be approved by the Owner and Engineer prior to construction at a cost to be negotiated between the parties. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3.18 HANDICAP ACCESSIBLE CURB RAMPS

A. Measurement and Payment

1. Payment for furnishing all labor, material, equipment and services required to install new handicap accessible curb ramps, complete-in-place, including all associated activities incidental to the work shall be made at the per each unit price in the Additive Alternative Bid Schedule.

END OF DOCUMENT

**ADDENDUM SIX
EAST LAKE PARK IMPROVEMENTS
WATER QUALITY PROJECT
CONTRACT NO. S-15-016
CITY OF CHATTANOOGA, TENNESSEE**

Addendum #5 included reference to an updated Bid Schedule and Measurement and Payment form to include updates issued via addendum.

The following is a summary of updates and the new Schedule and Spec Section are attached:

1. In the previous addendum, the Owner and Engineer agreed to modify the bid schedule to change the unit cost item for Concrete Pond Bottom repairs to an allowance because of uncertainty related to the quantities and scope of repairs. This change has been made. Attached to this addendum is a re-issued Bid Schedule with an allowance of \$30,000 for concrete bottom repairs.
2. The measurement and payment description for the Concrete Pond Bottom repairs item (Item 3.07) has been replaced in its entirety with the following:

The Concrete Pond Bottom Repair Allowance is to provide reimbursement for furnishing all labor, material, equipment, and services required for pond bottom damage repairs and pond perimeter concrete repairs necessary to maintain an impervious pond bottom. The Allowance will be included as part of the awarded Contract amount. However, the Allowance is not part of the contract and is not due to the Contractor except when authorized pond bottom repairs are necessary during construction activities. Once the pond is drained and the sediment is removed, the Contractor and Engineer will inspect the site and identify damaged areas that need to be repaired. The Contractor will prepare and submit an estimate to complete the repairs. Only repairs approved by the Owner and Engineer prior to the Contractor initiating the work will be reimbursed at the negotiated cost using this allowance. The balance of the Allowance remaining at project completion shall remain the Owner's and will not be paid to the Contractor.

3. All text changes related to the Measurement and Payment section included in prior addendums and the text changed noted above in Item 2 of this addendum have been incorporated into a new Measurement and Payment section. Attached to this Addendum is the revised Measurement and Payment Section which replaces the original Measurement and Payment section included in the bid package.

December 13, 2018

/s/ Justin C. Holland, Administrator
City of Chattanooga
Department of Public Works

BID SCHEDULE

East Lake Water Quality Improvement Project
Project No: _____
Chattanooga, Tennessee

Base Bid

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Mobilization/Demobilization	1	LS		
2	Project Record Documents	1	LS		
3	Demolition and Modifications	1	LS		
4	Asphalt Demolition and Disposal	19,110	SF		
5	Dewatering and Drainage				
5a	Pond Sediment Storage	1,100	CY		
5b	Pond Sediment Disposal	1,100	CY		
5c	Dewatering and Drainage	1	LS		
6	Concrete Pond Bottom Repair Allowance	1	LS	\$ 30,000.00	\$ 30,000.00
7	Slope Protection and Erosion Control	1	LS		
8	Landscaping				
8a.1	Wetland Shrub Area Plantings	4,280	SF		
8a.2	Wetland Shrub Area Soil Media	320	CY		
8b.1	Herbaceous Marsh Zone Plantings	15,580	SF		
8b.2	Herbaceous Marsh Zone Soil Media	780	CY		
8c	Meadow Walk/Stream Planting Area	10,000	SF		
8d	Headwater Stream/Steep Slope Planting Area	9,890	SF		
8e	Daylighted Spring/Swale Feature	300	LF		
8f	Beach Access Area	1	LS		
8g	Stream and Meadow Walk Trees and Shrubs				
8g.1	<i>River Birch Trees</i>	9	EA		
8g.2	<i>Betula Lenta Trees</i>	7	EA		
8g.3	<i>Flowering Dogwood Trees</i>	1	EA		
8g.4	<i>Tulip Poplar Trees</i>	3	EA		
8g.5	<i>Cucumber Trees</i>	5	EA		
8g.6	<i>Bigleaf Magnolia Trees</i>	2	EA		
8g.7	<i>American Sycamore Trees</i>	5	EA		
8g.8	<i>Glossy Abelia Shrubs</i>	26	EA		
8g.9	<i>Rhododendron Maximu Shrubs</i>	4	EA		
8g.10	<i>Wild Hydrangea Shrubs</i>	42	EA		
8g.11	<i>St. Andrews Cross Shrubs</i>	37	EA		
8g.12	<i>Mountain Laurel Shrubs</i>	20	EA		
8g.13	<i>Highland Doghobble Shrubs</i>	40	EA		
8h	Landscape Plantings				
8h.1	<i>Dura-Heat River Birch</i>	4	EA		
8h.2	<i>Pee Wee Oakleaf Hydrangea</i>	25	EA		
8h.3	<i>Hypericum</i>	79	EA		
8h.4	<i>Red Sprite Holly</i>	6	EA		
8h.5	<i>Virginia Sweetspire</i>	42	EA		
8h.6	<i>Elf Dwarf Mountain Laurel</i>	120	EA		
8h.7	<i>Anna Rose Rhododendron</i>	46	EA		
8h.8	<i>Tussock Sedge</i>	225	EA		
8h.9	<i>Switchgrass</i>	47	EA		
8h.10	<i>New England Aster (purple)</i>	26	EA		
8h.11	<i>Purple Coneflower</i>	17	EA		
8i	Educational Signage	2	EA		
8j	Miscellaneous Landscaping	1	LS		
9	Submerged Habitat Structures and Fish Stocking				
9a	Habitat Structure				
9a.1	<i>Catfish Nest Box</i>	8	EA		

BID SCHEDULE

East Lake Water Quality Improvement Project
Project No: _____
Chattanooga, Tennessee

Base Bid

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
9a.2	Boulder Pile	3	EA		
9a.3	Artificial Shrub Complex	4	EA		
9a.4	Artificial Brush Complex	3	EA		
9b	Spawning Bed Pea Gravel	32	CY		
9c	Fish Stocking	1	LS		
10	Permeable Surfacing	19,670	SF		
11	Railing Cable Systems				
11a	Wood Guard Rail	482	LF		
11b	Pond Edge Rail	564	LF		
12	Wood Decking	2,660	SF		
13	Electrical				
13a	Pole Top Mounted LED Light Fixture	22	EA		
13b	Die Cast Aluminum Light Pole	22	EA		
13c	Conduit/wiring/trenching (complete-in-place)	1,800	LF		
13d	Pull Box	2	EA		
13e	Building Modifications per Plans	1	LS		
13f	Conduit/trenching (Complete-in-place to assigned poles)	800	LF		
13g	Camera Pull Box	12	EA		

Total Not to Exceed Base Bid Cost Plus Concrete Repair Allowance (Summation of Items 1 - 13):

Additive Alternative Bid

The OWNER may elect and the Bidder agrees to add or replace to the Base Bid Cost all materials, labor, equipment, tools, and incidental costs for the items described below and for the prices listed below to complete all work necessary.

Item	Description	Estimated Quantity	Unit	Unit Price	Total Price
A	Demolition				
A.1	Demo Existing Parking per Cloud on Sheet C-15	1	LS		
A.2	Demo Existing Sidewalk per Cloud on Sheet C-15	1	LS		
B	Bituminous Concrete Pathway	6,900	SF		
C	Bituminous Concrete Parking Area	4,455	SF		
D	Handicap Parking Spaces with Striping and Signage	17	EA		
E	Electrical				
E.1	Pole Top Mounted LED Light Fixture	15	EA		
E.2	Die Cast Aluminum Light Pole	15	EA		
E.3	Conduit/wiring/trenching (complete-in-place)	500	LF		
F	Right-of-Way Improvements				
F.1	Concrete Sidewalk Demolition and Replacement	1,575	SF		
F.2	Miscellaneous Concrete Sidewalk Repairs	875	SF		
F.3	Curb and Gutter	400	LF		
F.4	Concrete Bulb Out	400	SF		
F.5	Handicap Accessible Curb Ramps	2	EA		
F.6	Miscellaneous Drainage System Improvements Allowance	1	LS		

Total Not to Exceed Additive Alternative Bid Cost (Summation of Items A - F):