

CONSTRUCTION SPECIFICATIONS  
AND  
CONTRACT DOCUMENTS

FOR

BOGUE FALAYA PARK ADA IMPROVEMENTS

CITY OF COVINGTON, LOUISIANA

CCE PROJECT NO. 119-109  
LWCF – BOGUE FALAYA PLAYGROUND - #22-00961

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**ADDENDUM NO. 2**

DATE ISSUED: SEPTEMBER 28, 2020

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BID DATE: OCTOBER 01, 2020 at 2:00 PM

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This Addendum shall be considered part of the Contract Documents for the same above mentioned project as though it had been issued at the same time and incorporated therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.

Bidders are hereby notified that they shall make any necessary adjustments in their estimates on account of this Addendum. It will be construed that each Bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

The general bidders are required to acknowledge receipt of this Addendum by noting the number in the space provided on the Bid Proposal Form. Failure to do so may cause rejection of Bid. General Contractors are requested to call attention to all subcontractors the changes that may affect their work.



## GENERAL

1. The bid date for the project REMAINS Thursday, October 01, 2020 at 2 P.M. local time. The location to submit bids remains the same.
2. The Engineer's Opinion of Probable Cost for this project is \$514,899.83. This includes a 18.004% contingency as required by the grantor, the Federal Land and Water Conservation Fund Program.
3. All references to item #22 - "Tree Trimming, Tree Cutting, Tree Protection, and Root Pruning" shall be revised to item #22 - "Modification to Root System".

## SPECIFICATIONS

4. Section 00 01 00 – Table of Contents of the technical specifications has been revised and made part of this addendum #2.
5. Section 00 41 43 – Louisiana Uniform Public Work Bid Form of the technical specifications has been revised and made part of this addendum #2.
6. Section 01 22 20 – Measurement and Payment of the technical specifications has been revised and made part of this addendum #2.
7. Section 01 22 31 – Clearing and Grubbing of the technical specifications has been revised and made part of this addendum #2.
8. Section 01 22 32 – Modification of Root System of the technical specifications has been revised and made part of this addendum #2.
9. Section 01 27 11 – Base Course (610 Limestone) of the technical specifications has been revised and made part of this addendum #2.
10. Section 01 73 16 – Sail Shade / Steel Tube Supports and Concrete Footing of the technical specifications has been revised and made part of this addendum #2.

## DRAWINGS

1. Sheet 2a and Sheet 3 of the drawing set have been revised and made part of this addendum #2.

## PRE-BID QUESTIONS AND ANSWERS

1. **Question:** The specifications for 01 22 31 Clearing and Grubbing and 01 22 32 Tree Protection, Tree Trimming, and Root Pruning both include the removal of trees. Which one is correct?

**Response:** Both specifications have been revised as per this addendum #2. The Clearing and Grubbing will cover the removal of trees as called out in the plans.

2. **Question:** Please clarify the location and quantity of the trees to be removed.

**Response:** It is not the intent to remove trees within the project unless specified in the plans. As mentioned in Question 1, both 01 22 31 and 01 22 32 sections have been revised.

3. **Question:** Sheet 2 indicates shared-use paths to be placed at existing grade. The 12' shared-use path follows an existing path. In many areas this existing path is significantly lower than the adjacent existing grade. Is the intent to install the new shared use-path directly on the existing subgrade and then fill or slope to the adjacent grade? Is removal of the existing subgrade at the 12' shared-use path required?

**Response:** It is the intent to place the shared-use path on top of the existing path (“goat trail”), however when vertical adjustments are required to provide proper drainage off of the path and onto the adjacent areas, fill will be required to raise the profile and then slope to adjacent grade. This will be paid for within line item #2 - Excavation and Embankment. Contractor to estimate the amount of excavation/embankment required for the path by utilizing the plan survey information and the typical sections.

4. **Question:** Section 01 22 32 1.04 indicates payment for this item to be lump sum. However, it is impossible to determine the scope of the root pruning prior to construction as many roots are concealed beneath the subgrade. Please explain how we are to determine the full scope of this work prior to construction. This item should be revised to Unit pay with a stipulation of the units required which should include man hours for arborist, quantity of fabric, gravel, WWF and other work specified in this section.

**Response:** This item and section has been modified by this addendum #2 into an “each” item with a quantity to use as needed and directed by the Arborist and Project Engineer. A concrete “ramp section” of 36 feet in length shall be utilized to compute the incidentals for this work.

5. **Question:** Section 01 22 32 1.03 7. Indicates to erect tree protection fencing around the perimeter of tree driplines “as shown on plans or as directed by the Project Engineer”. The project plans do not indicate the requirements of tree protection. We cannot determine the quantity of required tree protection based upon the project plans and specifications. Please clarify the tree protection quantities.

**Response:** This tree protection fencing has been made incidental to line item #22 as recommended by the arborist and shall be included with that item.

6. **Question:** Section 01 23 70 requires maintaining temporary erosion control features shown on the approved SWPP or as directed by the engineer. The project documents do not contain a SWPPP or direction as to where the silt fencing is to be installed. Please clarify if a SWPPP will be produced by the contractor and if this cost is to be included in bid item 3. Provide layout of silt fencing making up the 6,574 indicated in bid item 3.

**Response:** Given that the site is less than 1-acre disturbance, the SWPPP is the responsibility of the contractor, but should be minimal. Exact locations for silt fencing

are not provided, as this is part of the contractor's means and methods. Silt fencing shall be placed by the Contractor to prevent sediment or pollutants from being discharged from the construction site. Silt Fencing quantity has been reduced to 3,000 Linear Feet.

7. **Question:** Section 01 27 11 1.03 states "This work will be measured per square yard properly installed and approved in accordance with the plans and specifications." However, the pay unit is indicated to be Cubic Yard.

**Response:** The description has been updated to match the bid item unit as per Addendum #2.

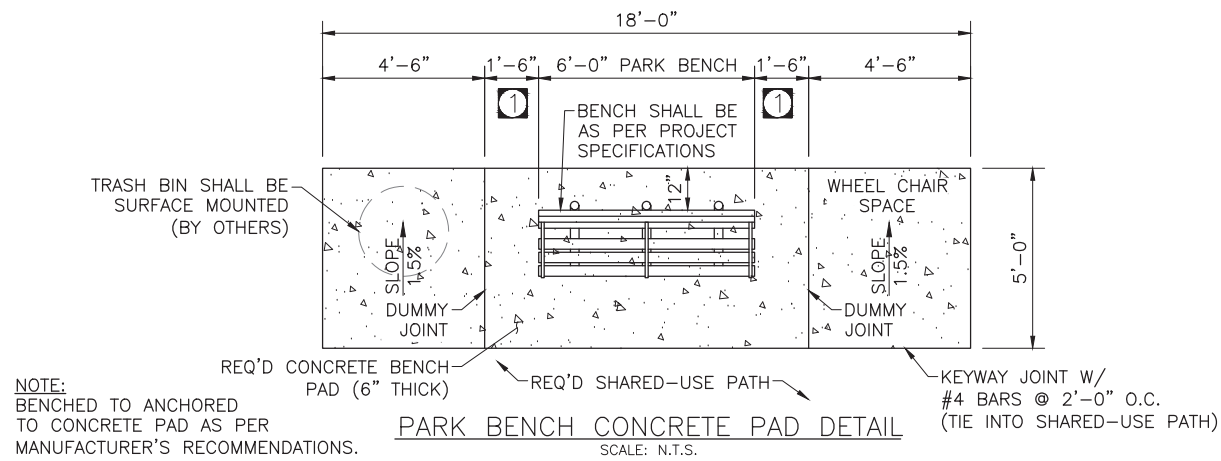
8. **Question:** Bid item 4 indicates to be based upon 98.1 Cubic yards of material. I do not believe this considers the requirement to extend the stone 12" outside the paved areas which would add approximately 10 CY. Please confirm.

**Response:** The 12" extension of stone is accounted for in the 98.1 Cubic Yards of material.

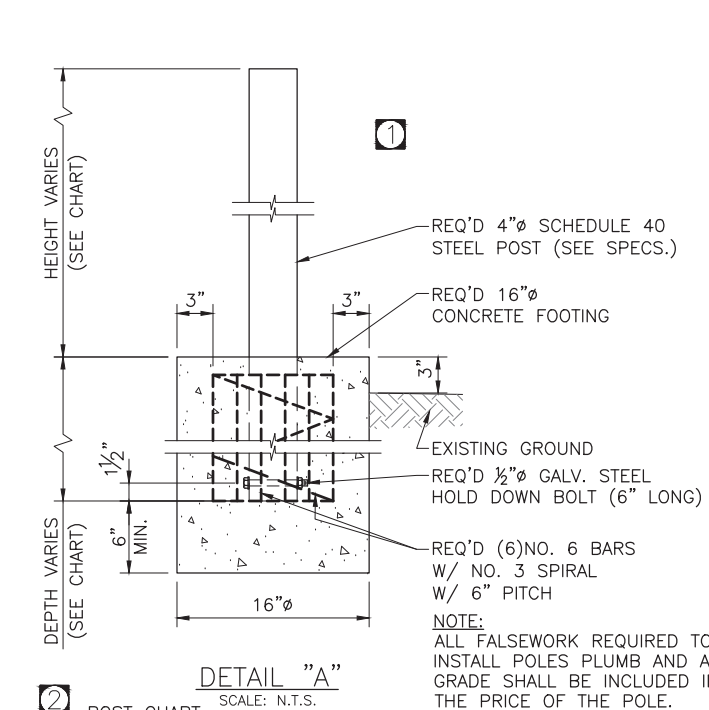
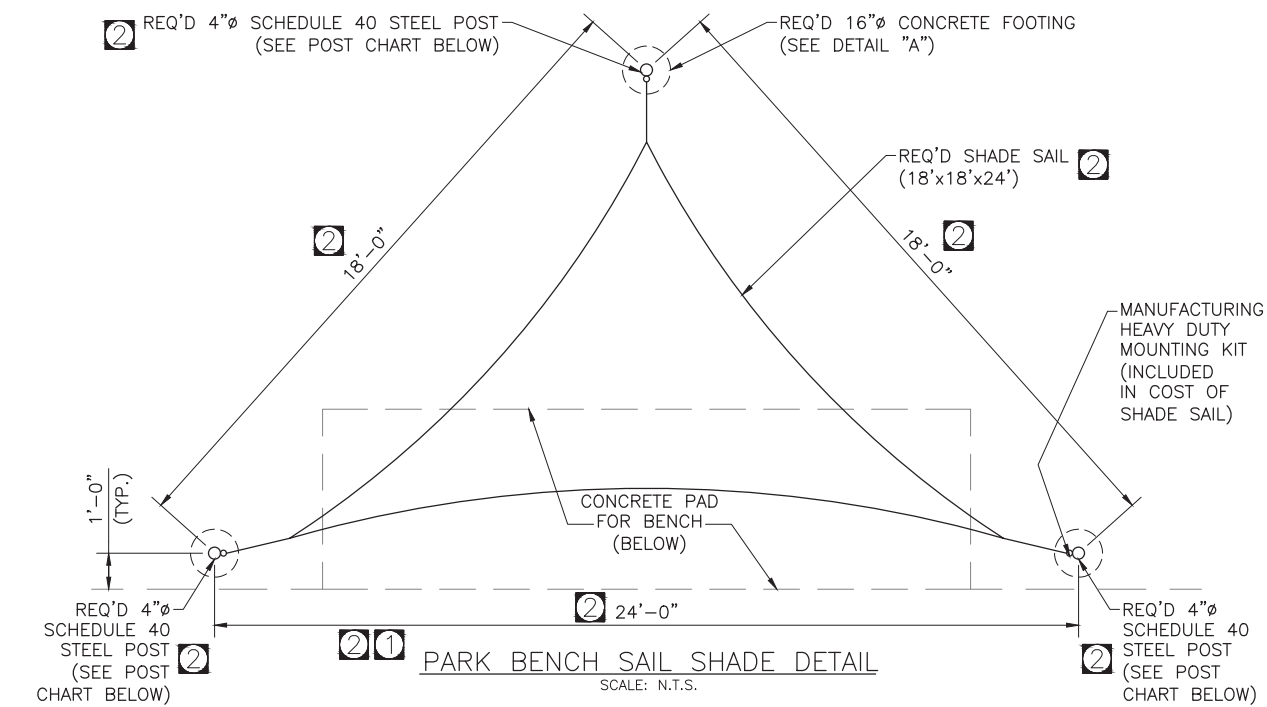
NOTE: The following items are hereby attached and made a part of the addendum:

1. Revised Plan Sheet 2a (11"x17") (1 SHEET)
2. Revised Plan Sheet 3 (11"x17") (1 SHEET)
3. Revised Section 00 01 00 – Table of Contents (2 SHEETS)
4. Revised Section 00 41 43 – Bid Form (5 SHEETS)
5. Revised Section 01 22 20 – Measurement and Payment (6 SHEETS)
6. Revised Section 01 22 31 – Clearing and Grubbing (1 SHEET)
7. Revised Section 01 22 32 – Modification to Root System (2 SHEETS)
8. Revised Section 01 27 11 – Base Course (610 Limestone) (1 SHEET)
9. Revised Section 01 73 16 – Sail Shade with Support (6 SHEETS)

END OF ADDENDUM

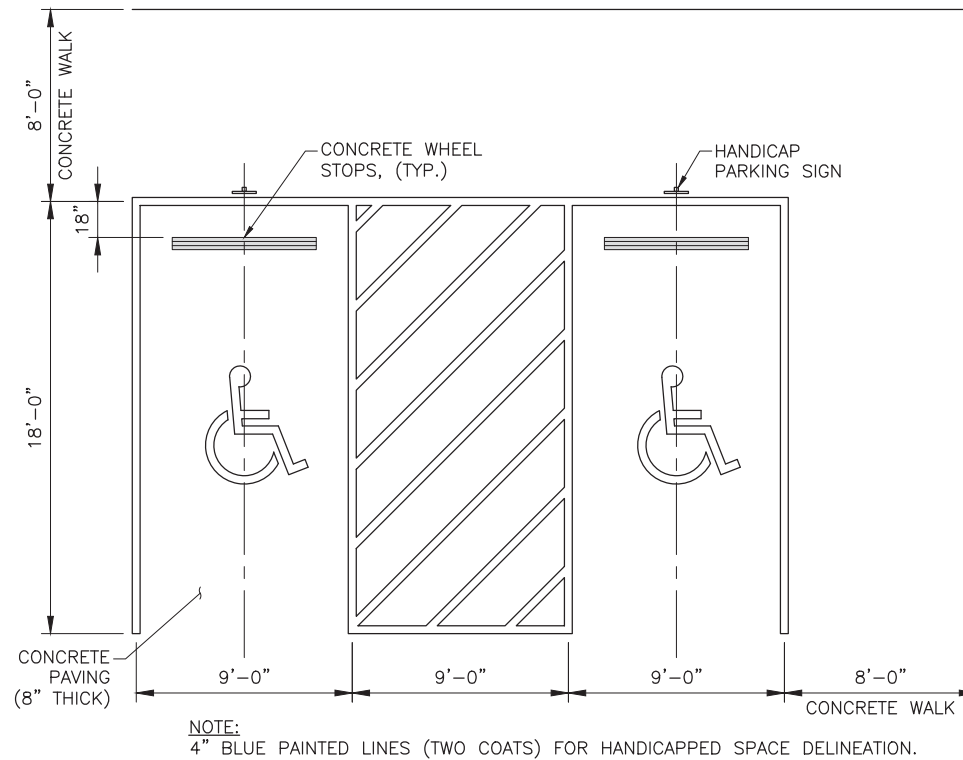


NOTE:  
BENCHED TO ANCHORED TO CONCRETE PAD AS PER MANUFACTURER'S RECOMMENDATIONS.

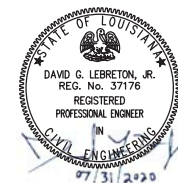
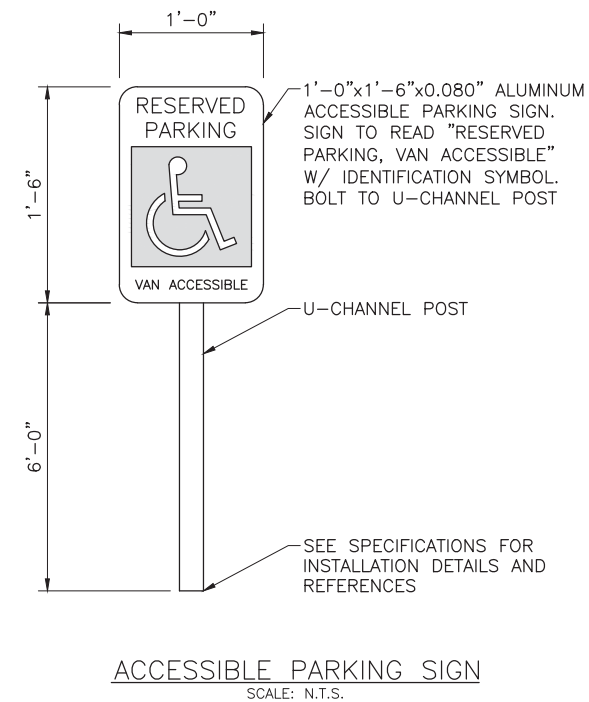
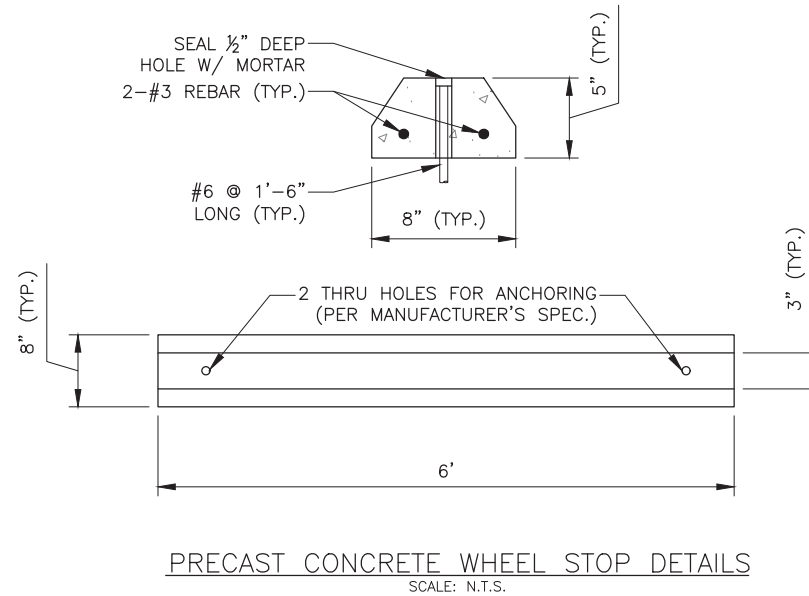
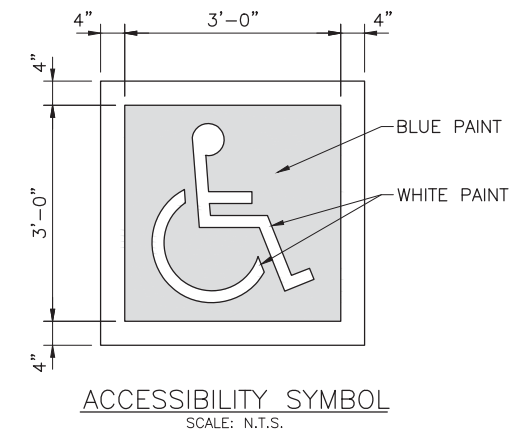


**POST CHART**

ORIENTATION	HEIGHT	DEPTH
NORTHERN MOST	(1 POST): 12'-0"	6'-0"
SOUTHERN MOST	(1 POST): 8'-0"	4'-0"
OTHER	(1 POST): 10'-0"	5'-0"



NOTE:  
4" BLUE PAINTED LINES (TWO COATS) FOR HANDICAPPED SPACE DELINEATION.



REVISION		DATE	DESCRIPTION
01	09-24-20		BENCH AND SAIL SHADE DETAIL REVISION
02	09-28-20		SAIL SHADE DETAIL REVISION

DESIGNED BY:	CHECKED BY:	DRAWN BY:	CHECKED BY:
MSC	DGL	MSC	DGL

GENERAL NOTES AND TYPICAL SECTIONS	
BOGUE FALAYA PARK CITY OF COVINGTON ST. TAMMANY PARISH, LOUISIANA	
PROJECT NO.	575-1701
DATE	JULY, 2020
SCALE	AS SHOWN
SHEET NO.	2a

**SUMMARY OF ESTIMATED QUANTITIES**

ITEM NO.	WORK ELEMENTS	UNIT	QUANTITY
1	CLEARING AND GRUBBING	LUMP	1
2	EXCAVATION AND EMBANKMENT	LUMP	1
3	TEMPORARY SILT FENCING	LNFT	3,000
4	BASE COURSE (610 LIMESTONE)	CUYD	98.1
5	CONCRETE WALK (4" THICK)	SQYD	74.3
6	CONCRETE WALK (6" THICK) (FOR PARKING LOT RAMP)	SQYD	136.0
7	CONCRETE PAD (6" THICK) (PLAYGROUND)	SQYD	398.2
8	CONCRETE PAD (6" THICK) (PARK BENCHES)	SQYD	40.0
9	CONCRETE PAVING (8" THICK) (PARKING LOT)	SQYD	60.0
10	HANDICAPPED CURB RAMPS	EACH	2
11	CONCRETE CURB (BARRIER) (FOR PARKING LOT RAMP)	LNFT	203
12	GEOTEXTILE FABRIC	SQYD	583
13	TEMPORARY SIGNS AND BARRICADES	LUMP	1
14	SLAB SODDING (BERMUDA GRASS)	SQYD	1,461
15	MOBILIZATION	LUMP	1
16	SIGN (TYPE A)	SQFT	33.3
17	U-CHANNEL POST	EACH	19
18	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (HANDICAP MARKINGS) (4" WIDTH - BLUE)	LNFT	166
19	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (HANDICAP PARKING)	EACH	2
20	CONSTRUCTION LAYOUT	LUMP	1
21	SHARED-USE PATH (PORTLAND CEMENT CONCRETE) (6" THICK)	SQYD	2,320
22	MODIFICATION TO ROOT SYSTEM	EACH	10
23	WHEEL STOPS	EACH	2
24	BENCHES (PARK)	EACH	9
25	SAIL SHADE W/ STEEL TUBE SUPPORTS AND CONCRETE FOOTING	EACH	4
26	ORNAMENTAL RAILING	LNFT	203
27	TESTING LABORATORY SERVICES	LUMP	1

2

2



PROJECT NO.	575-1701		
	DATE	JULY, 2020	
SCALE	AS SHOWN		
SHEET NO.	3		
BOGUE FALAYA PARK CITY OF COVINGTON ST. TAMMANY PARISH, LOUISIANA	DESIGNED BY:	MSC	DGL
	CHECKED BY:	DGL	MSC
	DRAWN BY:	MSC	DGL
	CHECKED BY:	DGL	MSC
 DIGITAL ENGINEERING & IMAGING, INC. 1080 W. CAUSEWAY APPROACH MANDEVILLE, LA. 70471 • PH: 833.917.2076	ITEM NAME AND QUANTITY REVISIONS	DGL	BY
	09-28-20		DATE
		REVISION	DESCRIPTION

**SUMMARY OF ESTIMATED QUANTITIES**

**SECTION 00 01 10**  
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**TABLE OF CONTENTS**

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END OF SECTION



**SECTION 00 41 43**  
**LOUISIANA UNIFORM PUBLIC WORK BID FORM**

**TO:** City of Covington  
317 N. Jefferson Avenue  
Covington, Louisiana, 70433

**BID FOR:** City of Covington  
Bogue Falaya Park ADA Improvements  
CCE 119-109 (LWCF - Bogue Falaya Playground -  
#22-00961

The undersigned bidder hereby declares and represents that she/he: a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: Digital Engineering and Imaging Inc. and dated: July 2020.

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) \_\_\_\_\_ .

**TOTAL BASE BID:** For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" \* but not alternates) the sum of:  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**ALTERNATES:** For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

**Alternate No. 1** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:  
\_\_\_\_\_ N/A \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**Alternate No. 2** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:  
\_\_\_\_\_ N/A \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**Alternate No. 3** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:  
\_\_\_\_\_ N/A \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**NAME OF BIDDER:** \_\_\_\_\_

**ADDRESS OF BIDDER:** \_\_\_\_\_

**LOUISIANA CONTRACTOR'S LICENSE NUMBER:** \_\_\_\_\_

**NAME OF AUTHORIZED SIGNATORY OF BIDDER:** \_\_\_\_\_

**TITLE OF AUTHORIZED SIGNATORY OF BIDDER:** \_\_\_\_\_

**SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER \*\*:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:**

\* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

\*\* **A CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

**BID SECURITY** in the form of a bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

# LOUISIANA UNIFORM PUBLIC WORK BID FORM

## UNIT PRICE FORM

**TO:** City of Covington  
317 N. Jefferson Avenue  
Covington, LA 70433

**BID FOR:** City of Covington  
Bogue Falaya Park ADA Improvements  
CCE 119 -109 (LWCF – Bogue Falaya  
Playground - #22-00961)

**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CLEARING AND GRUBBING				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
1	1	LUMP SUM		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ EXCAVATION AND EMBANKMENT				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
2	1	LUMP SUM		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ TEMPORARY SILT FENCING				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
3	3,000	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ BASE COURSE (610 LIMESTONE)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
4	98.1	CUBIC YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CONCRETE WALK (4" THICK)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
5	74.3	SQUARE YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CONCRETE WALK (6" THICK) (FOR PARKING LOT RAMP)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
6	136.0	SQUARE YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CONCRETE PAD (6" THICK) (PLAYGROUND)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
7	398.2	SQUARE YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CONCRETE PAD (6" THICK) (PARK BENCHES)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
8	40.0	SQUARE YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CONCRETE PAVING (8" THICK) (PARKING LOT)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
9	60.0	SQUARE YARD		

# LOUISIANA UNIFORM PUBLIC WORK BID FORM

## UNIT PRICE FORM (CONT'D)

**TO:** City of Covington  
317 N. Jefferson Avenue  
Covington, LA 70433

**BID FOR:** City of Covington  
Bogue Falaya Park ADA Improvements  
CCE 119 -109 (LWCF – Bogue Falaya  
Playground - #22-00961)

**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ HANDICAPPED CURB RAMPS				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
10	2	EACH		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CONCRETE CURB (BARRIER) (FOR PARKING LOT RAMP)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
11	203	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ GEOTEXTILE FABRIC				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
12	583	SQUARE YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ TEMPORARY SIGNS AND BARRICADES				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
13	1	LUMP SUM		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ SLAB SODDING (BERMUDA GRASS)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
14	1,461	SQUARE YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ MOBILIZATION				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
15	1	LUMP SUM		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ SIGN (TYPE A)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
16	33.3	SQUARE FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ U-CHANNEL POST				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
17	19	EACH		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ PLASTIC PAVEMENT LEGENDS AND SYMBOLS (HANDICAP MARKINGS) (4" WIDTH - BLUE)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
18	166	LINEAR FOOT		

# LOUISIANA UNIFORM PUBLIC WORK BID FORM

## UNIT PRICE FORM (CONT'D)

**TO:** City of Covington  
317 N. Jefferson Avenue  
Covington, LA 70433

**BID FOR:** City of Covington  
Bogue Falaya Park ADA Improvements  
CCE 119 -109 (LWCF – Bogue Falaya  
Playground - #22-00961)

**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ PLASTIC PAVEMENT LEGENDS AND SYMBOLS (HANDICAP PARKING)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
19	2	EACH		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ CONSTRUCTION LAYOUT				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
20	1	LUMP SUM		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ SHARED-USE PATH (PORTLAND CEMENT CONCRETE) (6" THICK)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
21	2320	SQUARE YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ MODIFICATION TO ROOT SYSTEM				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
22	10	EACH		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ WHEEL STOPS				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
23	2	EACH		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ BENCHES (PARK)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
24	9	EACH		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ SAIL SHADE W/ STEEL TUBE SUPPORTS AND CONCRETE FOOTING				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
25	4	EACH		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ ORNAMENTAL RAILING				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
26	203	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Quote or <input type="checkbox"/> Alt.# ___ TESTING LABORATORY SERVICES				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
27	1	LUMP SUM		

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

**END OF SECTION**

**SECTION 01 22 20  
MEASUREMENT AND PAYMENT**

**1.0 Description**

- A. CONTRACTOR shall furnish all labor, materials, tools, equipment, appurtenances and all services necessary to perform all Work required, at the lump sum or unit prices for the items listed herein.
- B. The items listed below beginning with Section 4.0, refer to and are the same pay items listed on the Bid Form. These items constitute all of the pay items for the completion of the Contract. No direct or separate payment will be made for providing miscellaneous, temporary, or accessory works, plant, services, Contractor's field offices, layout surveys, job signs, sanitary requirements, testing, safety devices, approval and record drawings, water supplies, power, removal of waste, watchmen, taxes, and all other requirements of the Contract Documents unless specifically covered by a pay item. Compensation for all such services, things and materials shall be included in the prices stipulated for the lump sum and unit pay items listed herein.

**2.0 Engineer's Estimate of Quantities**

- A. The Engineer's estimated quantities for unit bid prices, as listed in the Bid Form, are approximate only and are included solely for the purpose of comparison of Bids. The Owner does not expressly or by implication agree that the nature of the materials encountered below the surface of the ground or the actual quantities of material encountered or required will correspond therewith and reserves the right to increase or decrease any quantity or to eliminate any quantity as Owner may deem necessary.

**3.0 Related Provisions Specified Elsewhere**

- A. Payments to CONTRACTOR: Refer to General Conditions, Article 14.
- B. Changes in Contract Price: General Conditions, Article 11 and Contract Forms.

**4.0 Pay Items**

- 1. Item 1 – Clearing and Grubbing:
  - a. Description and Measurement: Item 1 includes the contractor to clear, grub, and remove vegetation and debris within the limits of the right-of-way and easement areas, except such items that are designated to remain or to be removed under other pay items. Cut trees, logs, brush, stumps and debris; excavate and remove stumps, roots, submerged logs, snags, and other vegetative or objectionable material; dispose removed material in accordance with 202.02 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition; and clean the area. No measurement of area will be made for payment, Clearing and Grubbing will be measured by Lump Sum.
  - b. Payment: Clearing and Grubbing will be paid for at the Lump Sum price indicated in the bid form.
- 2. Item 2 - Excavation and Embankment:

- a. Description and Measurement: Item 2 includes all materials, equipment, tools, labor, and incidentals necessary to complete the work. This work consists of excavation, disposal, placement and compaction of all materials that are not provided for under other sections of these specifications, including excavation and embankment construction for the proposed improvements and all other grading operations necessary for the work in accordance with these specifications and in conformity with lines, grades, thicknesses and typical cross sections shown on the plans or established by the Engineer. Except as modified herein, this work shall be in accordance with Section 203 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition and its latest revisions.
  - b. Payment: Excavation and Embankment will be paid for at the Lump Sum price indicated in the bid form.
3. Item 3 – Temporary Silt Fencing:
  - a. Description and Measurement: Item 3 includes necessary placement, staking, maintenance, disposal, and for all materials, equipment, tools, labor, and incidentals necessary to complete the work. Temporary Silt Fencing will be measured by the Linear Foot placed and accepted.
  - b. Payment: Temporary Silt Fencing will be paid for at the per Linear Foot price indicated in the bid form.
4. Item 4 – Base Course (610 Limestone):
  - a. Description and Measurement: Item 4 includes all materials, equipment, tools, labor, and incidentals necessary to complete the work. This work consists of furnishing and placing base course (610 limestone) in accordance with these specifications in conformity with the lines, grades, thickness and typical cross section as shown on the plans or as established by the Engineer.
  - b. Payment: Base Course (610 Limestone) will be paid for at the per Cubic Yard price indicated in the bid form.
5. Item 5 – Concrete Walk (4" Thick):
  - a. Description and Measurement: Item 5 includes any prep work as required, sub grade compaction, furnishing, installing, shaping, finishing, and curing concrete, joints and joint material, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work. Concrete Walks (4" Thick) will be measured by the Square Yard installed and accepted.
  - b. Payment: Concrete Walks (4" Thick) will be paid for at the per Square Yard price indicated in the bid form.
6. Item 6 – Concrete Walk (6" Thick) (For Playground Lot Ramp):
  - a. Description and Measurement: Item 6 includes any prep work as required, sub grade compaction, furnishing, installing, shaping, finishing, and curing concrete, joints and joint material, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work. Concrete Walks (6" Thick) (For Playground Lot Ramp) will be measured by the Square Yard installed and accepted.
  - b. Payment: Concrete Walks (6" Thick) (For Playground Lot Ramp) will be paid for at the per Square Yard price indicated in the bid form.

7. Item 7 – Concrete Pad (6" Thick) (Playground):
  - a. Description and Measurement: Item 7 includes any prep work as required, sub grade compaction, furnishing, installing, shaping, finishing, and curing concrete, joints and joint material, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work. Concrete Pad (6" Thick) (Playground) will be measured by the Square Yard installed and accepted.
  - b. Payment: Concrete Pad (6" Thick) (Playground) will be paid for at the per Square Yard price indicated in the bid form.
  
8. Item 8 – Concrete Pad (6" Thick) (Park Benches):
  - a. Description and Measurement: Item 8 includes any prep work as required, sub grade compaction, furnishing, installing, shaping, finishing, and curing concrete, joints and joint material, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work. Concrete Pad (6" Thick) (Park Benches) will be measured by the Square Yard installed and accepted.
  - b. Payment: Concrete Pad (6" Thick) (Park Benches) will be paid for at the per Square Yard price indicated in the bid form.
  
9. Item 9 – Concrete Paving (8" Thick) (Parking Lot):
  - a. Description and Measurement: Item 9 includes constructing cast-in-place Portland Cement Concrete Pavement in accordance with these specifications and in conformity with the lines, grades, thickness and typical cross sections shown on the plans or established by the Engineer. The work includes sub grade compaction, furnishing, installing, shaping, finishing, curing concrete, reinforcement steel, joints, and joint material. Concrete Paving (8" Thick) (Parking Lot) will be measured by the Square Yard installed and accepted.
  - b. Payment: Concrete Paving (8" Thick) (Parking Lot) will be paid for at the per Square Yard price indicated in the bid form.
  
10. Item 10 – Handicapped Curb Ramps:
  - a. Description and Measurement: Item 10 includes any prep work as required, saw-cutting, sub grade compaction, furnishing, installing, shaping, finishing, and curing concrete, reinforcement steel, joints and joint material, detectable warnings, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work. Handicapped Curb Ramps will be measured by Each installed and accepted.
  - b. Payment: Handicapped Curb Ramps will be paid for at the per Each price indicated in the bid form.
  
11. Item 11 – Concrete Curb (Barrier) (For Parking Lot Ramp):
  - a. Description and Measurement: Item 11 includes any prep work as required, sub grade compaction, furnishing, installing, shaping, finishing, and curing concrete, joints and joint material, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work. Concrete Curb (Barrier) (For Parking Lot Ramp) and Gutter will be measured by the Linear Foot, measured at the face of curb, installed and accepted.
  - b. Payment: Concrete Curb (Barrier) (For Parking Lot Ramp) will be paid for at the per Linear Foot price indicated in the bid form.



12. Item 12 – Geotextile Fabric:

- a. Description and Measurement: Item 12 consists of furnishing all labor, materials, equipment and incidentals required, to install in the location shown on the drawings, the geotextile fabric in strict accordance to manufacturer's directives and to the specifications herein. Geotextile fabric will be measured by the square yard installed and accepted.
- b. Payment: Geotextile Fabric will be paid for at the per Square Yard price indicated in the bid form.

13. Item 13 – Temporary Signs and Barricades:

- a. Description and Measurement: Item 13 includes all long term construction signage (road work ahead/ end work), temporary striping (tape), flagging, other materials, equipment, tools, labor, and incidentals necessary to complete the work. This item will not be measured for payment.
- b. Payment: Temporary Signs and Barricades will be paid a Lump price indicated on the bid form. Monthly payment to the Contractor shall be made by prorating the Contractor's lump sum bid price in accordance to the contract time (in months).

14. Item 14 – Slab Sodding (Bermuda Grass):

- a. Description and Measurement: Item 14 includes furnishing, hauling, planting, rolling, watering, and maintaining live grass sod at locations shown on the plans or as directed, and for all materials, equipment, tools, labor, and incidentals necessary to complete the work. Slab Sodding (Bermuda Grass) will be measured by the Square Yard installed and accepted.
- b. Payment: Slab Sodding (Bermuda Grass) will be paid for at the per Square Yard price indicated in the bid form.

15. Item 15 – Mobilization:

- a. Description and Measurement: Under this item of work, the Contractor shall set up his necessary general plan including storage areas, temporary facilities, transportation and removal of contractor's equipment and materials and such sanitary and other facilities as are required by local or state law or regulation; all as required for the proper performance and completion of the Work. This item will not be measured for payment.
- b. Payment: Payment for Mobilization will be a Lump price indicated on the bid form. Mobilization shall be paid in four installments as specified in the specification.

16. Item 16 – Sign (Type A):

- a. Description and Measurement: Under this item of work, the Contractor shall supply and install signs, support and associated hardware. This sign shall include W11-15 signs (18"x18"), W11-15p signs (18"x12") R1-1 signs (18"x18"), R5-3 signs (24"x24"), D11-2 signs (18"x18"), M6-2 signs (9"x12"), D11-1a signs (18"x18"), M6-2L signs (9"x12"), R9-7 signs (12"x18") and associated hardware. Signs (Type A) will be measured by the Square Foot installed and accepted.
- b. Payment: Sign (Type A) shall be paid at the per Square Foot price indicated on the bid form.

17. Item 17 – U-Channel Post:

- a. Description and Measurement: Item 17 includes all posts, foundation, labor and miscellaneous materials to install u-channel post as indicated on plans. U-Channel Posts will be measured by Each installed and accepted.
  - b. Payment: U-Channel Post shall be paid at the per Each price indicated on the bid form.
  
18. Item 18 – Plastic Pavement Legends and Symbols (Handicap Markings) (4” Width – Blue):
  - a. Description and Measurement: Item 18 includes all materials, equipment, tools, labor, and incidentals necessary for furnishing and placing reflective pavement markings of hot applied thermoplastic or patterned, preformed cold applied in accordance with the plans or as directed, and conforming to the Manual on Uniform Traffic Control Devices (MUTCD). Plastic Pavement Legends and Symbols (Handicap Markings) (4” Width – Blue) will be measured by the Linear Foot of marking material installed and accepted.
  - b. Payment: Plastic Pavement Legends and Symbols (Handicap Markings) (4” Width – Blue) will be paid for at the per Linear Foot price indicated in the bid form.
  
19. Item 19 – Plastic Pavement Legends and Symbols (Handicap Parking):
  - a. Description and Measurement: Item 19 includes all materials, equipment, tools, labor, and incidentals necessary for furnishing and placing reflective pavement markings of hot applied thermoplastic or patterned, preformed cold applied in accordance with the plans or as directed, and conforming to the Manual on Uniform Traffic Control Devices (MUTCD). Plastic Pavement Legends and Symbols (Handicap Parking) will be measured by the Each legend installed and accepted.
  - b. Payment: Plastic Pavement Legends and Symbols (Handicap Parking) will be paid for at the per Each price indicated in the bid form.
  
20. Item 20 – Construction Layout:
  - a. Description and Measurement: Under this item of work, the Contractor shall set up his necessary general layout; all as required for the proper performance and completion of the work and review with Project Engineer prior to construction.
  - b. Payment: Payment for Construction Layout will be a Lump Sum price indicated on the bid form. Construction Layout shall be paid in a maximum of five installments as specified in the specification.
  
21. Item 21 – Shared-Use Path (Portland Cement Concrete) (6” Thick):
  - a. Description and Measurement: Item 21 includes any prep work as required, sub grade compaction, furnishing, installing, shaping, finishing, and curing concrete, joints and joint material, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work. Shared-Use Path (Portland Cement Concrete) (6” Thick) will be measured by the Square Yard installed and accepted.
  - b. Payment: Shared-Use Path (Portland Cement Concrete) (6” Thick) will be paid for at the per Square Yard price indicated in the bid form.
  
22. Item 22 – Modification to Root System:
  - a. Description and Measurement: Item 22 includes all materials, equipment, tools, labor, and incidentals necessary to complete the work. This work consists of arborist work and the protection of trees to remain within the zone of construction or operational influence

in accordance with the plans and these specifications. Protective tree fencing and the hiring of the arborist are considered incidental to the item.

- b. Payment: Modification to Root System will be paid for at the Each price indicated in the Bid Form.

23. Item 23 – Wheel Stops:

- a. Description and Measurement: Item 23 consists of the all materials, labor and miscellaneous tools used to install the wheel stops placed within the limits of the project as indicated on plans and in these specifications. This work will be measured per precast concrete wheel stops properly furnished and installed in accordance with the plans and specifications.
- b. Payment: Wheel Stops will be paid for at the per Each price indicated in the bid form.

24. Item 24 – Benches (Park):

- a. Description and Measurement: Item 24 includes all materials, labor and miscellaneous tools used to install the benches placed within the limits of the project as indicated on plans and in these specifications. This work will be measured per each bench properly furnished and installed in accordance with the plans and specifications.
- b. Payment: Benches (Park) will be paid for at the Each price indicated in the Bid Form.

25. Item 25 – Sail Shade w/ Steel Tube Supports and Concrete Footing:

- a. Description and Measurement: Item 25 includes all materials, labor and miscellaneous tools used to install the sail shade, including supports and footings, placed within the limits of the project as indicated on plans and in these specifications. This work will be measured per each sail shade properly furnished and installed in accordance with the plans and specifications.
- b. Payment: Sail Shade w/ Steel Tube Supports and Concrete Footing will be paid for at the Each price indicated in the Bid Form.

26. Item 26 – Ornamental Railing:

- a. Description and Measurement: Item 26 consists of the all materials, labor and miscellaneous tools used to install railing placed within the limits of the parking lot ramp as indicated on plans and in these specifications. Measurement of the ornamental railing will be made at the linear foot of railing installed and accepted.
- b. Payment: Ornamental Railing will be paid for at the per Linear Foot price indicated in the bid form.

27. Item 27 – Testing Laboratory Services:

- a. Description and Measurement: Item 27 includes all materials, equipment, tools, labor, and incidentals necessary to complete the work. This work consists of material testing as specified by each work item in accordance with the plans and these specifications.
- b. Payment: Testing Laboratory Services will be paid for at the Lump Sum price indicated in the Bid Form

END of SECTION

**SECTION 01 22 31  
CLEARING AND GRUBBING**

1.01 DESCRIPTION

This work consists of required clearing, grubbing, vertical tree trimming, removing and disposing of trees called out in plans, vegetation and debris within the limits of the right-of-way and easement areas, except such objects that are designated to remain or to be removed in accordance with other Sections of these specifications. Vertical tree trimming shall be done to achieve a clearance of 8' minimum.

All work shall be in accordance with the requirements of Section 201 of the Louisiana Standard Specifications for Roads and Bridges, (LSSRB), 2016 Edition and latest revisions.

1.02 MEASUREMENT AND PAYMENT

No measurement will be made for the clearing, grubbing, tree trimming, removing and disposing of trees, vegetation and debris within the limits of the right-of-way and easement areas. Payment shall be made at the contract lump sum price. Price and payment shall include full compensation for furnishing all labor, material, and equipment to complete the work specified herein.

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
1	Clearing and Grubbing	Lump Sum

END OF SECTION

**SECTION 01 22 32  
MODIFICATION TO ROOT SYSTEM**

1.01 DESCRIPTION

This work consists of arborist work and the protection of trees to remain within the zone of construction or operational influence in accordance with the plans and these specifications.

1.02 MATERIALS

Comply with the following sections and subsections of the 2016 Louisiana Standard Specifications for Roads and Bridges: Gravel 1003.01, 1003.10.3.1 Filter Cloth (Geotextile Fabric) 1019.01, Class B, C, or D. Topsoil 715.02.1 Reinforcing Steel 1009.01

1.03 GENERAL

1. A Louisiana Licensed Arborist shall perform all tree assessments as directed by the Engineer, any necessary root pruning, and all tree fence protection. A current list of licensed arborists may be obtained from: Louisiana Department of Agriculture and Forestry website: <http://www.ldaf.state.la.us/>

2. Dripline is defined as the entire diameter reach of the tree canopy. Excavation or trenching within the dripline of any tree to remain is permitted only under existing roadbeds or as directed by the Project Engineer.

3. Root Pruning is defined as the cutting or grinding of roots followed by hand-pruning of any exposed root greater than 1 inch in diameter. Clean cuts shall be made to allow for the callusing of necessary wounds and for healthy re-growth of lost root systems. When root pruning is required, the extent of root pruning shall be determined by the Louisiana Licensed Arborist, and approved by the Engineer.

4. Where tree roots interfere with placement of new concrete or any required bases, excavation for placement of new concrete pavement/curbs within the dripline shall be omitted or the alignment modified. Any tree roots damaged during removal of existing curbs, bases, or walks shall be root pruned by a Louisiana Licensed Arborist. After a thorough analysis of the particular location, only hand formed, poured-in-place concrete shall be installed, if required, over the remaining roots as recommended by the Arborist and approved by the Engineer.

5. Where tree roots interfere with placement of a concrete walk, wherever possible a ramp shall be constructed over the roots in accordance with the following. This work shall consist of placing a layer of gravel approximately 4 inches - 6 inches thick in order to create a minimum of 3-inch-thick clearance above the top of the roots. The gravel layer shall be completely wrapped in filter cloth and extend for the width of the walk and the length of the ramp. This concrete "ramp section" shall be a total of 36' in length. The ramp section shall be constructed such that all ADA requirements are met and that a constant depth of concrete is maintained over the roots. Weakened transverse planes shall be constructed as required in the ramp section. No expansion joint shall be used in the ramp section. If ramping is not an option,

the Engineer, who may seek the guidance of the Arborist, shall determine that root pruning may be necessary for construction clearance prior to excavating for the walk.

6. The storage of materials, supplies, equipment, or vehicles will not be permitted within the dripline of any tree. The erection of tree protection fencing around the perimeter of tree driplines may be required as shown on the plans or as directed by the Project Engineer. The contractor is responsible for maintaining the tree protection fencing until completion of the project. The tree protection fencing and posts shall be removed as directed by the Project Engineer and become the property of the contractor. The minimum barricade requirements shall be the following: steel post, with at least 4 feet above ground, set no more than 6 feet on center with orange plastic safety fencing attached from top to bottom, running post to post completely encircling the tree or the portion of the dripline encroaching onto state ROW. Contractor shall include 50 linear feet of tree protection fencing for each modification to root system.

1.04                    PROCEDURES

1. Louisiana Licensed Arborist assessment of trees, locations to be identified and approved by the Engineer (No Direct Pay).
2. Protective Tree Fencing installation, as recommended by Arborist and approved by Engineer (No Direct Pay).
3. Modification to Root System (Root Pruning), as recommended and performed by Arborist, and approved by Engineer (Bid Item #22).

1.05                    MEASUREMENT AND PAYMENT

Payment for Modification to Root System shall be made at the contract unit price, which includes all labor, equipment, materials, and other incidentals to complete the work. Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
22	Modification to Root System	EACH

END OF SECTION

**SECTION 01 27 11**  
**BASE COURSE (610 LIMESTONE)**

1.01            DESCRIPTION

This material shall meet the requirements of Sections 1003.02, 1003.01 and 1003.03 (stone) of the latest edition of the Louisiana Department of Transportation and Development Standard Specifications for Roads and Bridges. It shall be compacted to 95% of ASTM D-698. This material shall be used as base course and as temporary street and drainage maintenance.

1.02            CONSTRUCTION REQUIREMENTS

Contractor is to compact the subgrade to the appropriate density of adjacent ground. He is to install a layer of compacted stone/crushed stone to the thickness, lines and grades shown on the drawings or as directed by the Engineer.

1.03            MEASUREMENT AND PAYMENT

This work will be measured per cubic yard properly installed and approved in accordance with the plans and specifications.

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
4	Base Course (610 Limestone)	Cubic Yard

END OF SECTION

**SECTION 01 73 16**  
**SAIL SHADE W/ STEEL TUBE SUPPORTS AND CONCRETE FOOTING**

**PART 1 GENERAL**

1.1 Summary

The shade structure manufacturer shall be responsible for the design, engineering, fabrication and supply of the work specified herein.

1.2 Submittals

- A. Provide proof of installed reference sites with structures for similar scope of a project and installation that are engineered to the latest IBC specifications. Include in reference; list of structure dimensions with install dates and project locations.
- B. Provide fabric samples to demonstrate fabric color range and paint color selections.
- C. Provide wet sealed structural engineering drawings and calculations as deferred submittal for approval by Construction Manager

1.3 Project Conditions

Field Measurements: Verify layout information for shade structures shown on the drawings in relation to the property survey and existing structures including all utilities and easements. Verify locations by field measurements prior to construction.

1.4 Warranty

- A. The manufacturer shall provide a 10-year non-prorated warranty on the shade fabric and Teflon stitching against cracks, tears, material breakdown or significant fading as a direct result of ultraviolet exposure with the exception of Red, which carries a 3-year limited warranty. Shade fabrics over 40' in length carry a limited 5-year non-prorated warranty.
- B. The manufacturer shall provide a 20-year non-prorated warranty against failure due to rust- through corrosion on steel frames.
- C. The manufacturer shall provide a 1-year warranty on all moving parts, surface coat finish, or any other product or part not covered by the above warranties.

**PART 2 PRODUCTS**



## 2.1 Related Documents

Pre-Engineered Package: To include (4) – 3 Point Sails - 18' x 18' x 24' (Center of Post to Center of post)/each 1-Post 8', 1-Post 10' & 1-Post 12' pre-fabricated, and include the structural steel posts, HDPE fabric canopy, steel cables, all fasteners, and detailed installation instructions of structure(s) including foundations.

- A. Sail Shade shall be manufactured by Modern Shade LLC (listed below) or approved equal:  
Modern Shade LLC,  
4213 Felter Lane, Austin, TX. 78744  
Toll Free: 1.877.385.3444  
Main: 512.385.4100  
Fax: 512.385.4103  
Email: [sales@modernshadellc.com](mailto:sales@modernshadellc.com)
- **Distributed and Installed by: Hahn-Enterprises, Contact Mary Bonadona 504-488-3536 [mary@hahn-enterprises.com](mailto:mary@hahn-enterprises.com) for pricing.**
- B. The shade structure shall conform to the current adopted version of the International Building Code including local agency amendments and additions to the code.
- C. All shade structures shall be engineered and designed to meet a minimum.
- 90 mph nominal wind load (or 115 mph ultimate wind speed) with fabric attached
  - 150 mph nominal wind load without fabric (steel frame only)
  - 5 psf snow load

## 2.2 Materials Framing

- A. Utilized per manufacturer's specifications and sealed engineering drawings
- B. Rolled steel plates, shapes, and bars shall be structural quality carbon steel complying with ASTM A- 36, except where engineer drawings specify otherwise.
- C. Structural steel tubular products shall be cold-formed structural quality carbon steel complying with ASTM A-500, Grade B except where engineer drawings specify otherwise.
- D. Reinforcement steel as required or designed per detailed specifications excepted by Structural Engineer.
- E. All structural steel shall be fabricated and erected in accordance by and as recommended by the AISC Manual of Steel Construction.

## 2.3 Powder Coat Finish

- A. All Structural Steel shall be blasted and treated with de-greaser to remove any unwanted

substances.

- B. Pre-heated to remove any welding gas impurities and moisture.
- C. All Structural Steel (galvanized and non-galvanized) including welds to be primed with Zinc rich primer.
- D. Powder coated in the approved color by electro-statically applying and backing at 400 degrees Fahrenheit to a minimum thickness between 3.0 – 5.0 mil for a consistent glossy finish.
- E. TGIC polyester powder shall meet or exceed ASTM standards for adhesion, hardness, impact, flexibility, over bake resistance, and sea spray resistance.

#### 2.4 Galvanized Finish

- A. Corrosion resistance obtained by using patented Flo-Coat TM process.
- B. Steel treated with a molten zinc bath to remove unwanted substances and prepare steel for maximum adhesion.
- C. Steel treated with chromate applications to further prime and seal for adhesion and resistance
- D. Final Polymer coating applied to seal and protect.

#### 2.5 Shade Fabric and Thread

- A. High-density polyethylene woven architectural fabric, 85% - 98.8% Ultraviolet Resistant.
- B. ALL fabric seams shall be sewn with minimum 2000 Denier PTFE thread utilizing the lock stitch sewing method. PTFE Thread will not lose any significant strength due to UV or chemical exposure. Chain stitching of any kind shall not be used.
- C. Water runoff: Runoff Roof Angle 75° - 14 degrees
- D. Provides an average of 85% or greater shade covered area.
- E. Temperature stability at a maximum +176degrees/-13degrees minimum.
- F. Utilized in accordance to manufacturer's shade cloth specifications product data, installation instructions use limitations and recommendations for the entire structure, including both published data and specified data prepared for this project.
- G. Approved Fire Rating as a result of the ASTM E-84 (Class A). Also available upon request substitute fabric with extra fire retardant to pass California Fire Marshall and NFPA 701 Test Method 1 & 2.
- H. Fabric shall be lead free.
- I. Fabric cable pockets are double folded to provide extra reinforcement.
- J. Fabric corners shall be reinforced with minimum 3" internal seat belt webbing that connects each cable pocket opening in semi-arc pattern with cross section of webbing connecting to corner attachment. Standard and Super Structure Hips shall have a stainless-steel plate sewn into internal webbing pockets at each corner to prevent fabric from ripping out.

#### 2.6 Welding

- A. All welds performed by AWS certified welder.
- B. Welding performed in accordance with the latest edition of the American Welding Society Structural Welding Code AWS D1.1
- C. Steel shall be welded as to develop the maximum strength at connections.
- D. According to selection, Engineer drawings shall specify particular sizes and types of welds.
- E. Welds shall be visually inspected for soundness, smooth, even contour and freedom from undercutting and arc strikes. Minimum fillet welds 3/16" on small upper frames and 1/4" everywhere else. Welds shall be continuous.
- F. Standard practice welding performed using 71A75 Dual Shielded Flux Core .045 wire.

## 2.7 Foundations

- A. The foundation design shall be based on previous knowledge of soil conditions in the vicinity or existing surfaces and building codes and structural load requirements in accordance with American Concrete Institute, ACI 318-05.
- B. Existing foundation conditions shall be examined and surveyed to assure support for the structure.

## 2.8 Concrete Piers

- A. Concrete work shall be performed when outdoor temperatures are above 32 degrees Fahrenheit and conditions are relatively dry.
- B. Utilizing a minimum concrete strength of 2500 psi high strength Ready Mix concrete with an approximate finished weight of 145 Lbs. per Cu. Ft.
- C. Reinforcing steel shall be detailed, fabricated, and placed in accordance with the latest ACI Detailing Manual and Manual of Standard Practice.
- D. Concrete shall be formed as to direct drainage from the site to prevent corrosion or rust in embedded post.

## 2.9 Base Plate and Anchors

- A. Steel plates shall be continually welded at the base of the post and bolted to the foundations.
- B. All steel plates shall be carbon steel connections shall conform to ASTM A-325.
- C. All anchor bolts and threaded rod shall be ASTM F-1554 unless otherwise specified by the engineer of record.
- D. Installation, design, and structural specifications shall be in accordance with ASTM Structural Specifications for Bolted Connections.
- E. Anchoring methods shall be in conjunction with all related selections of this specification.

## 2.10 Fasteners Bolted Connections

- A. All nuts, bolts, anchor bolts, lock washers, cable locks, and threaded rods shall be

medium carbon steel, stainless steel, or galvanized corrosion resistant: size and type to suit applications and meet requirements.

- B. Carbon steel connections shall conform to ASTM A-325 steel.
- C. Bolted connections shall be in conjunction with all related selections of this specification.
- D. All bolted connections shall be installed in accordance with Structural Specifications for Bolted Connections utilizing ASTM A-325 or ASTM A-490 Bolts.

#### 2.11 Steel Aircraft Cables and Tensioning

- A. Standard min. 1/4" galvanized steel aircraft cable shall be utilized with a minimum tensile strength of 7,000 lbs. on standard structures and min. 3/8" galvanized steel cable with a minimum tensile strength of 14,400 lbs. on super structure sizes unless otherwise specified by the engineer of record.
- B. **MaxTension™**, our proprietary pulley system, is designed to keep the top fabric tight and firm or approved equal support system.
- C. Smaller Structures under 30 ft. will have a single cable pass through the **MaxTension™** pulley system at each corner in order to achieve required tension.
- D. Structures over 30 ft. require an independent cable on each side of the structure that passes through the **MaxTension™** pulley system in order to achieve required tension.
- E. Sail Structures require an independent cable on each side of the fabric membrane sail which terminate into a delta. Deltas shall be sewn into each attachment point using 3" minimum internal seat belt webbing for added strength. Deltas attach to shackles and turnbuckles in order to achieve required tension and for easy removal and reattachment of the fabric. Turnbuckles may not be required on small sails.

### PART 3 EXECUTION

#### 3.1 Preparation

- A. Prepare surfaces according to the manufacturers' guidelines.
- B. Locate piers according to the plans provided by manufacturer.

#### 3.2 Installation

- A. Install in accordance with manufacturer's guidelines.
- B. Place on prepared concrete foundations or footings as specified.
- C. Anchor securely in place.
- D. Must apply silicone to all slip fit connections to avoid rust.

#### 3.3 Protection

- A. Protect installed products until project is completed.
- B. Touch-up, repair or replace any products that might have been damaged during installation before substantial completion.

**PART 4 PAYMENT**

4.1 MEASUREMENT AND PAYMENT

This work will be measured per each sail shade properly furnished and installed in accordance with the plans and specifications.

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
25	Sail Shade W/ Steel Tube Supports and Concrete Footing	Each

END OF SECTION