



ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

October 16, 2025.

Please find the following addendum to the below-mentioned BID.

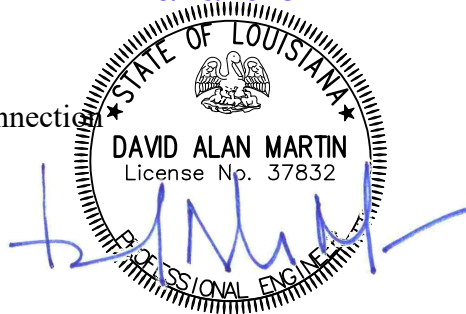
Addendum No.: 3

Bid#: 25-6-2

Project Name: Alton Water System Interconnection

Bid Due Date: October 21, 2025

10/16/2025



GENERAL INFORMATION:

1. This addendum forms a part of the Contract Documents and modifies Specification sections as denoted below. **Acknowledge receipt of this addendum in the space provided on the Bid Form.** Failure to do so may subject the Bidder to being considered non-responsive. The Bidder is responsible for disseminating this addendum to all subcontractors and material suppliers concerned. This addendum supersedes any contrary or conflicting information in any previously issued addenda. This Addendum shall be part of the Contract Documents. The following items are issued to add, delete, modify, and clarify the Contract Documents. These items shall be part of and shall have full force and effect as the Contract Documents and the cost involved shall be included in the bid price.
2. Clarifications:
 - a. Payment for Item Ref. No. S-001, Flow Metering and Control Facility, will include the installation and materials to install the bollards shown on sheet G-504.
 - b. All milling of asphalt pavement is to be 2" nominal thickness.
3. Changes to Contract Specifications:
 - a. Section 03 – Summary of Work. ADD the following items below in section IV. Special Provisions 1) Site conditions:

PROCUREMENT DEPARTMENT
P.O. BOX 628 | COVINGTON, LOUISIANA | 70434 | PROCUREMENT@STPGOV.ORG | 985-898-2520

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ADDENDUM 3



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f) Usage of Public Rights-of-Way and Servitudes: The work will be conducted in public rights-of-way and/or servitudes. The contractor will be permitted to work in these public rights-of-way and servitudes; the contractor shall not be allowed to perform work on private property without prior approval of the owner. Storage of equipment and materials in public rights-of-way and servitudes shall not be permitted without expressed permission of the Parish or the governing agency. The contractor shall limit preparatory work and assembling materials (i.e. fusing pipe) in public rights-of-way and servitudes. The contractor shall restore public rights-of-way and servitudes to at least the condition prior to commencing work and to the satisfaction of the Parish, its project representatives and/or the governing agency.

g) Usage of Private Land: The Parish will not provide storage and staging areas for the project. Identifying and securing storage and staging areas shall be responsibility of the contractor. There shall be no direct payment for the rental, lease or purchase of staging and storage areas required for the contractor to conduct his work. Restoration of rented, leased or purchased staging and storage areas shall be the responsibility of the contractor and shall be restored to the satisfaction of the property owner(s).

h) Handling and Storage of Materials: The contractor shall be responsible for the safe and proper handling and storage of materials used for the project. Therefore, the contractor shall provide adequate and proper personnel and equipment to handle materials for the project. The Parish and its project representatives reserve the right to require additional testing or fully reject materials and work that may have been damaged due to mishandling or improper storage. The contractor shall replace all defective materials and work fully at his own cost.

b. DELETE Section 04 – Louisiana Uniform Public Work Bid Form Unit Price Form in its entirety and REPLACE with the attached REVISED Section 04 – Louisiana Uniform Public Work Bid Form Unit Price Form:

c. DELETE Section 01 29 00 – Measurement and Payment in its entirety and REPLACE with the attached REVISED Section 01 29 00 – Measurement and Payment:



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- d. Section 01 55 00 – Site Access and Storage. DELETE Paragraph 1.3 A and REPLACE with the following:

“The OWNER will not designate or arrange for the contractor’s use a portion of property for the CONTRACTOR’s use as a storage and shop area for its construction operations.”

4. Changes to Contract Drawings:
a. DELETE Drawing G-504 and REPLACE with the attached REVISED Drawing G-504.

QUESTIONS & ANSWERS:

Question 1: Per sheet G-504, anything outside of the dashed perimeter is to be paid under applicable water main items. There is no item for Bollards. Please advise how that will be paid for.

Answer 1: Sheet G-504 is reissued as an attachment to this addendum which will include the bollards in the “Flow Metering and Control Facility” pay item. The measurement and payment description has been updated accordingly in the “changes to contract specifications” section of this addendum.

Question 2: Sheet G-504 calls out for a 6” thick slab by 7’x14’ under the sheet key notes but the detail is showing 1’ thick 20.58’x7’ thick slab. Please advise.

Answer 2: Sheet G-504 has been updated to reflect a 6” thick slab that is 7’x20.58’.

Question 3: How thick is the asphalt and base course as the detail and specs do not say.

Answer 3: The asphalt thickness will need to match existing with a minimum of 6” thick. The base course will require a minimum of 8” thick.

Question 4: Can we use HDPE for the HDD install in lieu of the PVC options?

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Answer 4: HDPE will not be allowed as a substitute to PVC pipe on this project.

ATTACHMENTS:

1. REVISED Drawing G-504
2. REVISED Section 04 – Louisiana Uniform Public Work Bid Form Unit Price Form.
3. REVISED Section 01 29 00 – Measurement and Payment.

End of Addendum # 3

ADDENDUM 3

LOUISIANA UNIFORM PUBLIC WORK BID FORM UNIT PRICE FORM

TO:

St. Tammany Parish Government

21454 Koop Drive, Suite 2F

Mandeville, LA. 70471

(OWNER TO PROVIDE NAME AND ADDRESS OF OWNER)

BID FOR:

ALTON WATER SYSTEM

INTERCONNECTION

BID NO. 25-6-2

(OWNER TO PROVIDE PROJECT NAME & OTHER IDENTIFYING INFO)

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

Description:	☒ BASE BID OR ☐ ALT # CLEARING AND GRUBBING			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
201 (01)	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # REMOVAL OF STRUCTURES AND OBSTRUCTIONS			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202 (01)	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # REMOVAL OF ASPHALT CONCRETE PAVEMENT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202 (02)	125	SQUARE YARD		
Description:	☒ BASE BID OR ☐ ALT # ADDITIONAL EXCAVATION OF UNSUITABLE SUBGRADE			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203 (01)	120	CUBIC YARDS		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☒ BASE BID OR ☐ ALT # TEMPORARY ENVIRONMENTAL CONTROLS			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204 (01)	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # CLASS II BASE COURSE (STONE)			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
302 (01)	125	SQUARE YARD		
Description:	☒ BASE BID OR ☐ ALT # AGGREGATE SURFACE COURSE			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
401 (01)	360	SQUARE YARD		
Description:	☒ BASE BID OR ☐ ALT # TRAFFIC MAINTENANCE SURFACING			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
402 (01)	125	SQUARE YARD		
Description:	☒ BASE BID OR ☐ ALT # SUPERPAVE ASPHALT CONCRETE - LEVEL 1			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
502 (01)	4	TONS		
Description:	☒ BASE BID OR ☐ ALT # MILLING ASPHALT PAVEMENT - NOMINAL 2 INCH THICKNESS			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
509 (01)	565	SQUARE YARD		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.
Version 2017 Q2

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

Description:	☒ BASE BID OR ☐ ALT # TEMPORARY TRAFFIC CONTROL			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
713 (01)	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # FOUNDATION MATERIAL			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
726 (01)	120	CUBIC YARDS		
Description:	☒ BASE BID OR ☐ ALT # MOBILIZATION			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
727 (01)	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # SEEDING			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
739 (01)	1	LUMP SUM		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☒ BASE BID OR ☐ ALT # CONSTRUCTION LAYOUT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
740 (01)	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # 8" WATER MAIN, PVC, UNRESTRAINED, INSTALLED BY OPEN CUT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (01)	920	LINEAR FOOT		
Description:	☒ BASE BID OR ☐ ALT # 8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (02)	630	LINEAR FOOT		
Description:	☒ BASE BID OR ☐ ALT # 8" WATER MAIN, PVC, INSTALLED BY HORIZONTAL DIRECTIONAL DRILL			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (03)	400	LINEAR FOOT		
Description:	☒ BASE BID OR ☐ ALT # 8" DUCTILE IRON FITTINGS, FULLY RESTRAINED, ALL TYPES, MECHANICAL JOINT BY MECHANICAL JOINT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (04)	35	EACH		
Description:	☒ BASE BID OR ☐ ALT # 8" BURIED GATE VALVE, MECHANICAL JOINT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (05)	2	EACH		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

Version 2017 02

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

Description:	☒ BASE BID OR ☐ ALT # 6" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (06)	20	LINEAR FOOT		
Description:	☒ BASE BID OR ☐ ALT # 6" BURIED GATE VALVE, MECHANICAL JOINT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (07)	3	EACH		
Description:	☒ BASE BID OR ☐ ALT # 8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY JACKING AND BORING WITHIN STEEL CASING			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (08)	280	LINEAR FOOT		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☒ BASE BID OR ☐ ALT # AIR RELEASE VALVE IN VAULT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (09)	6	EACH		
Description:	☒ BASE BID OR ☐ ALT # FIRE HYDRANT ASSEMBLY			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
741 (10)	3	EACH		
Description:	☒ BASE BID OR ☐ ALT # FLOW METERING AND CONTROL FACILITY			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-001	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # SITE CONDITIONS SURVEY			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-002	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # JACKING AND BORING PITS			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-003	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # HORIZONTAL DIRECTIONAL DRILLING PITS			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-004	1	LUMP SUM		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☒ BASE BID OR ☐ ALT # TRACK MONITORING			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-005	1	LUMP SUM		
Description:	☒ BASE BID OR ☐ ALT # SAW CUTTING OF PAVEMENT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-006	4000	IN-LF		
Description:	☒ BASE BID OR ☐ ALT # WATER MAIN TIE-IN NEAR US-11 AND N. 2ND AVE.			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
S-007	1	LS		
Description:	☐ BASE BID OR ☒ ALT #1 CLEARING AND GRUBBING			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-201 (01)	1	LUMP SUM		
Description:	☐ BASE BID OR ☒ ALT #1 REMOVAL OF STRUCTURES AND OBSTRUCTIONS			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-202 (01)	1	LUMP SUM		
Description:	☐ BASE BID OR ☒ ALT #1 REMOVAL OF ASPHALT CONCRETE PAVEMENT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-202 (02)	50	SQUARE YARD		

Version 2017-02
 Wording for "Description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☐ BASE BID OR ☒ ALT #1	ADDITIONAL EXCAVATION OF UNSUITABLE SUBGRADE		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-203 (01)	50	CUBIC YARDS		
Description:	☐ BASE BID OR ☒ ALT #1	TEMPORARY ENVIRONMENTAL CONTROLS		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-204 (01)	1	LUMP SUM		
Description:	☐ BASE BID OR ☒ ALT #1	CLASS II BASE COURSE (STONE)		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-302 (01)	50	SQUARE YARD		
Description:	☐ BASE BID OR ☒ ALT #1	TRAFFIC MAINTENANCE SURFACING		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-402 (01)	20	SQUARE YARD		
Description:	☐ BASE BID OR ☒ ALT #1	SUPERPAVE ASPHALT CONCRETE - LEVEL 1		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-502 (01)	20	TONS		
Description:	☐ BASE BID OR ☒ ALT #1	MILLING ASPHALT PAVEMENT - NOMINAL 2 INCH THICKNESS		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-509 (01)	50	SQUARE YARD		

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

Description:		☐ BASE BID	OR	☒ ALT #1	TEMPORARY TRAFFIC CONTROLS	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-713 (01)	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #1	FOUNDATION MATERIAL	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-726 (01)	50	CUBIC YARDS				
Description:		☐ BASE BID	OR	☒ ALT #1	MOBILIZATION	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-727 (01)	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #1	SEEDING	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-739 (01)	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #1	CONSTRUCTION LAYOUT	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-740 (01)	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #1	8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-741 (02)	100	LINEAR FOOT				

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☐ BASE BID OR ☒ ALT #1	8" DUCTILE IRON FITTINGS, FULLY RESTRAINED, ALL TYPES, MECHANICAL JOINT BY MECHANICAL JOINT		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-741 (04)	1	EACH		
Description:	☐ BASE BID OR ☒ ALT #1	6" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-741 (06)	5	LINEAR FOOT		
Description:	☐ BASE BID OR ☒ ALT #1	6" BURIED GATE VALVE, MECHANICAL JOINT		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-741 (07)	1	EACH		
Description:	☐ BASE BID OR ☒ ALT #1	FIRE HYDRANT ASSEMBLY		
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A1-741 (10)	1	EACH		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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Description:		☐ BASE BID	OR	☒ ALT #1	SITE CONDITIONS SURVEYS	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-S-001	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #1	SAW CUTTING OF PAVEMENT	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A1-S-002	1000	IN-LF				
Description:		☐ BASE BID	OR	☒ ALT #2	CLEARING AND GRUBBING	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-201 (01)	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #2	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-202 (01)	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #2	REMOVAL OF ASPHALT CONCRETE PAVEMENT	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-202 (02)	100	SQUARE YARD				
Description:		☐ BASE BID	OR	☒ ALT #2	ADDITIONAL EXCAVATION OF UNSUITABLE SUBGRADE	
REF NO.:	QUANTITY	UNIT OF MEASURE		UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-203 (01)	100	CUBIC YARDS				

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:		☐ BASE BID	OR	☒ ALT #2	TEMPORARY ENVIRONMENTAL CONTROLS	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
A2-204 (01)	1	LUMP SUM				
Description:		☐ BASE BID	OR	☒ ALT #2	CLASS II BASE COURSE (STONE)	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
A2-302 (01)	100	SQUARE YARD				
Description:		☐ BASE BID	OR	☒ ALT #2	TRAFFIC MAINTENANCE SURFACING	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
A2-402 (01)	50	SQUARE YARD				
Description:		☐ BASE BID	OR	☒ ALT #2	SUPERPAVE ASPHALT CONCRETE - LEVEL 1	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
A2-502 (01)	40	TONS				
Description:		☐ BASE BID	OR	☒ ALT #2	MILLING ASPHALT PAVEMENT - NOMINAL 2 INCH THICKNESS	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
A2-509 (01)	100	SQUARE YARD				
Description:		☐ BASE BID	OR	☒ ALT #2	TEMPORARY TRAFFIC CONTROL	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)		
A2-713 (01)	1	LUMP SUM				

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☐ BASE BID	OR	☒ ALT #2	FOUNDATION MATERIAL	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-726 (01)	100	CUBIC YARDS			
Description:	☐ BASE BID	OR	☒ ALT #2	MOBILIZATION	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-727 (01)	1	LUMP SUM			
Description:	☐ BASE BID	OR	☒ ALT #2	SEEDING	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-739 (01)	1	LUMP SUM			
Description:	☐ BASE BID	OR	☒ ALT #2	CONSTRUCTION LAYOUT	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-740 (01)	1	LUMP SUM			
Description:	☐ BASE BID	OR	☒ ALT #2	8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT	
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)	
A2-741 (02)	300	LINEAR FOOT			

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description:	☐ BASE BID OR ☒ ALT #2 8" DUCTILE IRON FITTINGS, FULLY RESTRAINED, ALL TYPES, MECHANICAL JOINT BY MECHANICAL JOINT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A2-741 (04)	3	EACH		
Description:	☐ BASE BID OR ☒ ALT #2 6" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A2-741 (06)	15	LINEAR FEET		
Description:	☐ BASE BID OR ☒ ALT #2 6" BURIED GATE VALVE, MECHANICAL JOINT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A2-741 (07)	3	EACH		
Description:	☐ BASE BID OR ☒ ALT #2 FIRE HYDRANT ASSEMBLY			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A2-741 (10)	3	EACH		
Description:	☐ BASE BID OR ☒ ALT #2 SITE CONDITIONS SURVEY			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A2-S-001	1	LUMP SUM		
Description:	☐ BASE BID OR ☒ ALT #2 SAW CUTTING OF PAVEMENT			
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
A2-S-002	1000	IN-LF		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

SECTION 01 29 00 - MEASUREMENT AND PAYMENT

PART 1 -- GENERAL

1.1 THE REQUIREMENT

- A. Payment for the various items on the Bid Form, as further specified herein, will include all compensation to be received by the CONTRACTOR for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of the WORK all in accordance with the requirements of the Contract Documents, including all appurtenances thereto, and including all costs of permits and cost of compliance with the regulations of public agencies having jurisdiction, including Safety and Health Requirements of the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA). No separate payment will be made for any item that is not specifically set forth in the Bid Schedule. therefore, include all costs of the WORK in the prices named in the Bid Schedule for the various appurtenant items of WORK.

1.2 ACCURACY

- A. The ENGINEER will be the judge of the accuracy of measurements, or approximations made in lieu of accurate determinations, and these decisions will be binding upon both the CONTRACTOR and the OWNER.
- B. The ENGINEER will utilize the accepted Schedule of Values for the purpose of estimating the value of WORK completed for the evaluation of requests for payment.
- C. The terms "lump sum, each, or unit" when used as a unit of measure for payment will mean complete payment for the work described in the contract. Portions of lump sum items may be paid where deemed acceptable by the ENGINEER and OWNER based upon an estimate of the proportion of the WORK of the lump sum item acceptably completed in accordance with the Contract Documents. The ENGINEER may utilize an accepted Schedule of Values to make such determinations. Provide all supporting documentation requested by the ENGINEER in this regard.

1.3 CLEARING AND GRUBBING - UNIT PRICE FORM REF. NO. 201 (01).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** No Measurement will be made for this item.
- C. **Payment:** Payment for this item will be made in portions of the lump sum price named in the Bid Form in accordance with the following table. Payment of the lump sum price listed in the Bid Form shall constitute full compensation for all equipment, materials, tools, labor, and incidentals necessary for clearing and grubbing and site preparation associated with the WORK in accordance with the requirements of the Contract Documents.



Table 01 29 00 – 1 – Allowable Percent of Lump Sum Price for Clearing and Grubbing	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Clearing and Grubbing:
First Application for Payment	40
25	60
50	80
75	95
100	100

1.4 REMOVAL OF STRUCTURES AND OBSTRUCTIONS - UNIT PRICE FORM REF. NO. 202 (01).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** No Measurement will be made for this item.
- C. Payment:** Payment for this item will be made at, or in portions thereof based upon the estimated amount of the WORK completed, of the lump sum bid price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the removal of structures and obstructions, including but not limited to disposal of debris, all in accordance with the requirements of the Contract Documents.

1.5 REMOVAL OF ASPHALT CONCRETE PAVEMENT – UNIT PRICE FORM REF. NO. 202 (02).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of square yards of asphalt concrete pavement removed as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the removal of asphalt concrete pavement, inclusive but not limited to breaking, removal and disposal of asphalt concrete pavement, and removal and disposal of base course, all in accordance with the requirements of the Contract Documents.



1.6 ADDITIONAL EXCAVATION OF UNSUITABLE SUBGRADE– UNIT PRICE FORM REF. NO. 203 (01).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of cubic yards of materials excavated as based on theoretical volume as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR which provides full compensation for excavation of unsuitable subgrade, removal of unsuitable subgrade and disposal of excavated unsuitable subgrade all in accordance with contract documents.

1.7 TEMPORARY ENVIRONMENTAL CONTROLS – UNIT PRICE FORM REF. NO. 204 (01).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the complete provision of all temporary environmental controls required by the Contract Documents and local, State, and Federal laws, including, but not limited to the installation and maintenance of temporary environmental controls, development and maintenance of all required pollution prevention plans and associated permit fees, and all other temporary environmental controls all in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 2 – Allowable Percent of Lump Sum Price for Temporary Environmental Controls – Base Bid	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Temporary Environmental Controls:
<i>First Application for Payment</i>	40
25	60
50	80
75	95
100	100



1.8 CLASS II BASE COURSE (STONE) – UNIT PRICE FORM REF. NO. 302 (01).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** Measurement for payment for this item will be based upon the number of square yards of base course installed as determined by field measurement along neat lines.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of Class II Base Course, inclusive but not limited to excavation to required line and grade, disposal of excavated material, placement of geotextile fabric, geogrid, placement and compaction of base course material and placement of asphalt prime coat all in accordance with the requirements of the Contract Documents.

1.9 AGGREGATE SURFACE COURSE – UNIT PRICE FORM REF. NO. 401(01)

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** Measurement for payment for this item shall be the square yard aggregate surface course, placed and compacted, as determined by field measurements along neat lines.
- C. **Payment:** Payment for this item will be made at the unit price listed on the Bid Form. payment for the production of mixtures for aggregate surface course, surfacing, geogrid, placement and compaction of aggregate surface course, all in accordance with the requirements of the Contract Documents.

1.10 TRAFFIC MAINTENANCE SURFACING – UNIT PRICE FORM REF. NO. 402 (01)

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** Measurement for payment for this item shall be the square yard traffic maintenance surfacing placed, maintained, and removed, as determined by field measurements along neat lines.
- C. **Payment:** Payment for traffic maintenance surfacing at the unit price listed in the Bid Form. Payment of the price listed on the Bid Form shall constitute full payment for the production of mixtures for traffic maintenance surfacing, placement and compaction of mixtures for traffic maintenance surfacing, maintenance, and removal and disposal of traffic maintenance surfacing all in accordance with the requirements of the Contract Documents.

1.11 SUPERPAVE ASPHALT CONCRETE – LEVEL 1 – UNIT PRICE FORM REF. NO. 502 (01).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** Measurement for payment for asphalt concrete wearing course will be made by the ton of 2,000 pounds from printed tickets provided as specified within the Contract Documents. Approved tickets will be issued



for each truckload of material delivered. Material lost, wasted, rejected, or applied contrary to the Contract Documents will not be measured for payment.

- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the furnishing of all required materials, production of the mixtures, preparation of the surfaces on which the mixture are to be placed inclusive of tack coats, hauling the mixtures to the work site, placing and compacting the mixtures, and correcting deficiencies in surface tolerances all in accordance with the requirements of the Contract Documents.

1.12 MILLING ASPHALT PAVEMENT - NOMINAL 2 INCH THICKNESS – UNIT PRICE FORM REF NO. 509 (01).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** Measurement for payment for this item will be based upon the square yard of asphalt concrete surfacing acceptably removed by milling as determined by field measurement along neat lines. No additional measurement will be made for multiple passes required to achieve total milling depth shown on the drawings or as specified.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for milling asphalt pavement, inclusive of but not limited to removing, hauling, stockpiling and disposing of millings, all in accordance with the requirements of the Contract Documents.

1.13 TEMPORARY TRAFFIC CONTROL – UNIT PRICE BID FORM REF. NO. 713 (01)

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** No measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the development, implementation, maintenance, adjustment, and removal of all temporary traffic controls, all in accordance with the requirements of the Contract Documents.



Table 01 29 00 – 3 – Allowable Percent of Lump Sum Price for Temporary Traffic Controls – Base Bid	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Temporary Traffic Controls
Initial Erection	40
25	60
50	80
75	95
100	100

1.14 FOUNDATION MATERIAL – UNIT PRICE BID FORM REF. NO. 726 (01).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of cubic yards of materials, compacted and in place, placed as based on theoretical volume as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR which provides full compensation for furnish, placing foundation material and compacting to the proper relative density, furnishing and placing geotextile in accordance with plan details, furnishing and placing geogrid in accordance with plan details, and all other items necessary for furnishing foundation material in accordance with the requirements of the Contract Documents.

1.15 MOBILIZATION – UNIT PRICE BID FORM REF. NO. 727 (01)

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the successful mobilization and de – mobilization to and from the site, all in accordance with the requirements of the Contract Documents.



Table 01 29 00 – 4 – Allowable Percent of Lump Sum Price for Mobilization – Base Bid	
Percent of Total Contract Amount Earned	Allowable Percent of Lump Sum Price for Mobilization
<i>1st Application for Payment</i>	25
10	50
25	75
50	100

1.16 SEEDING – UNIT PRICE BID FORM REF. NO. 739 (01).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** No measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at, or in portions thereof based upon the estimated amount of the WORK completed, of the lump sum bid price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the seeding of all lawn areas affected by construction, including but not limited to surface preparation, placement of seed, establishment, watering, and correction of deficient areas in accordance with the requirements of the Contract Documents.

1.17 CONSTRUCTION LAYOUT – UNIT PRICE BID FORM REF. NO. 740 (01).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** No measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the complete and accurate layout of all WORK, including but not limited to the recovery and establishment of baselines, elevations, traverses, and measurements all in accordance with the Requirements of the Contract Documents. Additionally, this item includes the installation of not more than (1) concrete water main marker and (6) fiberglass water main markers.



Table 01 29 00 – 5 – Allowable Percent of Lump Sum Price for Construction Layout – Base Bid	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Construction Layout:
<i>First Application for Payment</i>	40
25	60
50	80
75	95
100	100

1.18 8" WATER MAIN, PVC, UNRESTRAINED, INSTALLED BY OPEN CUT – UNIT PRICE FORM REF. NO. 741 (01).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the unrestrained water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, exclusion of water, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of pipe, pressure testing and disinfection of pipe, joining of pipe to structures, valves, and fittings, tracer wire and locator tape, and backfilling all in accordance with the requirements of the Contract Documents.

1.19 8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT – UNIT PRICE FROM REF. NO. 741 (02).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves.



- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the restrained water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, exclusion of water, provision and placement of bedding material, provision, placement and joining of pipe, pressure testing and disinfection of pipe, pipe restraints, joining of pipe to structures, valves, and fittings, tracer wire and locator tape, and backfilling all in accordance with the requirements of the Contract Documents.

1.20 8" WATER MAIN, PVC, INSTALLED BY HORIZONTAL DIRECTIONAL DRILL – UNIT PRICE FORM REF. NO. 741 (03).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe actually placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves. The ENGINEER may also utilize the approved record drawings to validate the installed quantity.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the pipeline via horizontal directional drill, inclusive of furnishing and placing pipe, preparation of reports, surface monitoring, joining of pipe to structures, valves, and fittings, tracer wire, and all other work all in accordance with the requirements of the Contract Documents.

1.21 8" DUCTILE IRON FITTINGS, FULLY RESTRAINED, ALL TYPES, MECHANICAL JOINT BY MECHANICAL JOINT – UNIT PRICE FORM REF. NO. 741 (04).

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** Measurement for payment for this item will be based upon the number of such fittings furnished and installed in place.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of fittings within the water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of fittings, retainer glands, tracer wire and locator tape, and backfilling and all other work all in accordance with the requirements of the Contract Documents.



1.22 8" BURIED GATE VALVE, MECHANICAL JOINT – UNIT PRICE FORM REF. NO. 741 (05).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of such valves furnished and installed in place.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the sewer force main pipeline, inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision and installation of the valve including retainer glands for full restraint of the valve, valve actuator, extension stem, soil pipe, valve casting, and concrete pad (or manhole cover for buried valves in pavement), and backfilling all in accordance with the requirements of the Contract Documents.

1.23 6" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT – UNIT PRICE FROM REF. NO. 741 (06).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the restrained water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, exclusion of water, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of pipe, pressure testing and disinfection of pipe, pipe restraints, joining of pipe to structures, valves, and fittings, tracer wire and locator tape, and backfilling all in accordance with the requirements of the Contract Documents.

1.24 6" BURIED GATE VALVE, MECHANICAL JOINT – UNIT PRICE FORM REF. NO. 741 (07).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of such valves furnished and installed in place.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the



installation of the sewer force main pipeline, inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision and installation of the valve including retainer glands for full restraint of the valve, valve actuator, extension stem, soil pipe, valve casting, and concrete pad (or manhole cover for buried valves in pavement), and backfilling all in accordance with the requirements of the Contract Documents.

1.25 8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY JACKING AND BORING WITHIN STEEL CASING – UNIT PRICE FORM REF. NO. 741 (08).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe actually placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the restrained water main pipeline by jacking and boring, inclusive of but not limited to provision, placement and joining of casing, casing spacers, casing end seals, provision, placement and joining of pipe, provision and installation of pipe restraints, pressure testing and disinfection of pipe, joining of pipe to structures, valves, and fittings, backfilling, and all other work all in accordance with the requirements of the Contract Documents.

1.26 AIR RELEASE VALVE IN VAULT – UNIT PRICE FORM REF. NO. 741 (09).

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the number of such valves furnished and installed in place.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the valve inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision and installation of the valve, outlet piping, concrete box and lid, air release piping, concrete pad, and backfilling all in accordance with the requirements of the Contract Documents.

1.27 FIRE HYDRANT ASSEMBLY – UNIT PRICE FORM REF. NO. 741 (10).

- A. Explanation:** This item is part of the Base Bid.

B. Measurement: Measurement for fire hydrant assemblies will be based upon

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the number of such hydrant assemblies furnished and installed in place.

- C. **Payment:** Payment will constitute full compensation for installing fire hydrant assemblies during construction including furnishing all materials, equipment, tools, labor and incidentals required to install the fire hydrant assemblies. Excavation, geotextile fabric, backfill, joint restraints, bedding material including geotextile and geogrid as applicable per plan details, shoring, necessary vertical hydrant extensions and any materials required for installation of the hydrants shall be considered incidental to the unit price.

1.28 FLOW METERING AND CONTROL FACILITY – UNIT PRICE FORM REF. NO. S-001.

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** No measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the estimated amount of the WORK satisfactorily completed. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the construction and placing into service the flow control facility near Ashton Parc, including but not limited to ductile iron riser pipe, flanged fittings above grade, backflow preventers, above grade air release valves, above grade gate valves, insulation, Portland cement concrete support slab, reinforcing for Portland cement concrete support slab, and other equipment necessary for the construction and placing into service the flow control and metering facility all in accordance with the requirements of the Contract Documents.

1.29 SITE CONDITIONS SURVEY – UNIT PRICE FORM REF. NO. S-002.

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** No measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the estimated amount of the WORK satisfactorily completed. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the pre – construction photo and video survey, inclusive of all attempts to gain access necessary for the survey, all in accordance with the requirements of the Contract Documents.

1.30 JACKING AND BORING PITS – UNIT PRICE FORM REF. NO. S-003.

- A. **Explanation:** This item is part of the Base Bid.
- B. **Measurement:** No measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at the lump price named on the bid form. Payment of said price listed on the Bid Form constitutes full



compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the drilling pits, inclusive but not limited to excavation, shoring necessary for excavation safety, setup and removal of the drilling rig, backfilling, bedding material including geotextile and geogrid as applicable per plan details and connections to other pipes, and all other work necessary, all in accordance with the requirements of the Contract Documents.

1.31 HORIZONTAL DIRECTIONAL DRILLING PITS – UNIT PRICE FORM REF. NO. S-004.

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the drilling pits, inclusive but not limited to excavation, shoring necessary for excavation safety, setup and removal of the drilling rig, backfilling, bedding material including geotextile and geogrid as applicable per plan details and connections to other pipes, and all other work necessary, all in accordance with the requirements of the Contract Documents.

1.32 TRACK MONITORING – UNIT PRICE FORM REF. NO. S-005.

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for track monitoring as required, including installation and maintenance of targets, monitoring, retention of records, services required by railroad including but not limited to flagger and track monitoring and delivery of monitoring results as specified, all in accordance with the requirements of the Contract Documents.

1.33 SAW CUTTING OF PAVEMENT – UNIT PRICE FORM REF. NO. S-006.

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** Measurement for payment for this item will be based upon the inch-linear feet of full depth saw cutting satisfactorily completed multiplied by the number of inches in thickness of the pavement saw cut. For instance, 1 linear foot of saw cut through 6" thick pavement will be measured as 6 inch – linear feet.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all



labor, products and materials, equipment, and services necessary for the full depth saw cutting of pavement, all in accordance with the requirements of the Contract Documents.

1.34 WATER MAIN TIE-IN NEAR US-11 AND N. 2ND AVE – UNIT PRICE FORM REF. NO. S-007.

- A. Explanation:** This item is part of the Base Bid.
- B. Measurement:** No Measurement will be made for this item.
- C. Payment:** Payment for this item will be made at, or in portions thereof based upon the estimated amount of the WORK completed, of the lump sum bid price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for sheeting, shoring, and bracing, excavation, cutting of existing pipe, installation of new tee connecting the new and existing pipelines, one valve as indicated on the drawings, pressure testing, disinfection, and backfilling, all in accordance with the requirements of the Contract Documents.

1.35 CLEARING AND GRUBBING - UNIT PRICE FORM REF. NO. A1-201 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** No Measurement will be made for this item (if awarded).
- C. Payment:** If awarded, payment for this item will be made in portions of the lump sum price named in the Bid Form in accordance with the following table. Payment of the lump sum price listed in the Bid Form shall constitute full compensation for all equipment, materials, tools, labor, and incidentals necessary for clearing and grubbing and site preparation associated with the WORK in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 6 – Allowable Percent of Lump Sum Price for Clearing and Grubbing – Additive Alternate No. 1.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Clearing and Grubbing:
First Application for Payment	40
25	60
50	80
75	95
100	100



1.36 REMOVAL OF STRUCTURES AND OBSTRUCTIONS - UNIT PRICE FORM REF. NO. A1-202 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** No Measurement will be made for this item (if awarded).
- C. Payment:** If awarded, payment for this item will be made at, or in portions thereof based upon the estimated amount of the WORK completed, of the lump sum bid price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the removal of structures and obstructions, including but not limited to disposal of debris, all in accordance with the requirements of the Contract Documents.

1.37 REMOVAL OF ASPHALT CONCRETE PAVEMENT – UNIT PRICE FORM REF. NO. A1-202 (02).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the number of square yards of asphalt concrete pavement removed as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the removal of asphalt concrete pavement, inclusive but not limited to breaking, removal and disposal of asphalt concrete pavement, and removal of base course, all in accordance with the requirements of the Contract Documents.

1.38 ADDITIONAL EXCAVATION OF UNSUITABLE SUBGRADE– UNIT PRICE FORM REF. NO. A1-203 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the number of cubic yards of materials excavated as based on theoretical volume as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR which provides full



compensation for excavation of unsuitable subgrade, removal of unsuitable subgrade and disposal of excavated unsuitable subgrade all in accordance with contract documents.

1.39 TEMPORARY ENVIRONMENTAL CONTROLS – UNIT PRICE FORM REF. NO. A1-204 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for work associated with Additive Alternate No. 1.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the complete provision of all temporary environmental controls required by the Contract Documents and local, State, and Federal laws, including, but not limited to the installation and maintenance of temporary environmental controls, development and maintenance of all required pollution prevention plans and associated permit fees, and all other temporary environmental controls all in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 7 – Allowable Percent of Lump Sum Price for Temporary Environmental Controls – Additive Alternate No. 1.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Temporary Environmental Controls:
<i>First Application for Payment</i>	40
25	60
50	80
75	95
100	100

1.40 CLASS II BASE COURSE (STONE) – UNIT PRICE FORM REF. NO. A1-302 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the number of square yards of base course installed as determined by field



measurement along neat lines.

- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of Class II Base Course, inclusive but not limited to excavation to required line and grade, disposal of excavated material, placement of geotextile fabric, geogrid, placement and compaction of base course material and placement of asphalt prime coat all in accordance with the requirements of the Contract Documents.

1.41 TRAFFIC MAINTENANCE SURFACING – UNIT PRICE FORM REF. NO. A1-402 (01)

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item shall be the square yard traffic maintenance surfacing placed, maintained, and removed, as determined by field measurements along neat lines.
- C. Payment:** Payment for traffic maintenance surfacing at the unit price listed in the Bid Form. Payment of the price listed on the Bid Form shall constitute full payment for the production of mixtures for traffic maintenance surfacing, placement and compaction of mixtures for traffic maintenance surfacing, maintenance, and removal and disposal of traffic maintenance surfacing all in accordance with the requirements of the Contract Documents.

1.42 SUPERPAVE ASPHALT CONCRETE – LEVEL 1 – UNIT PRICE FORM REF. NO. A1-502 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for asphalt concrete wearing course will be made by the ton of 2,000 pounds from printed tickets provided as specified within the Contract Documents. Approved tickets will be issued for each truckload of material delivered. Material lost, wasted, rejected, or applied contrary to the Contract Documents will not be measured for payment.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the furnishing of all required materials, production of the mixtures, preparation of the surfaces on which the mixture are to be placed inclusive of tack coats, hauling the mixtures to the work site, placing and compacting the mixtures, and correcting deficiencies in surface tolerances all in accordance with the requirements of the Contract Documents.



1.43 MILLING ASPHALT PAVEMENT - NOMINAL 2 INCH THICKNESS – UNIT PRICE FORM REF NO. A1-509 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the square yard of asphalt concrete surfacing acceptably removed by milling as determined by field measurement along neat lines. No additional measurement will be made for multiple passes required to achieve total milling depth shown on the drawings or as specified.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for milling asphalt pavement, inclusive of but not limited to removing, hauling, stockpiling and disposing of millings, all in accordance with the requirements of the Contract Documents.

1.44 TEMPORARY TRAFFIC CONTROL – UNIT PRICE BID FORM REF. NO. A1-713 (01)

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the development, implementation, maintenance, adjustment, and removal of all temporary traffic controls, all in accordance with the requirements of the Contract Documents.



Table 01 29 00 – 8 – Allowable Percent of Lump Sum Price for Temporary Traffic Controls – Additive Alternate No.1.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Temporary Traffic Controls
Initial Erection	40
25	60
50	80
75	95
100	100

1.45 FOUNDATION MATERIAL – UNIT PRICE BID FORM REF. NO. A1-726 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the number of cubic yards of materials, compacted and in place, placed as based on theoretical volume as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR which provides full compensation for furnish, placing foundation material and compacting to the proper relative density, furnishing and placing geotextile in accordance with plan details, furnishing and placing geogrid in accordance with plan details, and all other items necessary for furnishing foundation material in accordance with the requirements of the Contract Documents.

1.46 MOBILIZATION – UNIT PRICE BID FORM REF. NO. A1-727 (01)

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the successful mobilization and de –



mobilization to and from the site, all in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 9 – Allowable Percent of Lump Sum Price for Mobilization – Additive Alternate No. 1.	
Percent of Total Contract Amount Earned	Allowable Percent of Lump Sum Price for Mobilization
<i>1st Application for Payment</i>	25
10	50
25	75
50	100

1.47 SEEDING – UNIT PRICE BID FORM REF. NO. A1-739 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at, or in portions thereof based upon the estimated amount of the WORK completed, of the lump sum bid price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the seeding of all lawn areas affected by construction, including but not limited to surface preparation, placement of seed, establishment, watering, and correction of deficient areas in accordance with the requirements of the Contract Documents.

1.48 CONSTRUCTION LAYOUT – UNIT PRICE BID FORM REF. NO. A1-740 (01).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the complete and accurate layout of all WORK, including but not limited to the recovery and establishment of baselines, elevations, traverses, and measurements all in accordance with the



Table 01 29 00 – 10 – Allowable Percent of Lump Sum Price for Construction Layout – Additive Alternate No. 1.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Construction Layout:
<i>First Application for Payment</i>	40
25	60
50	80
75	95
100	100

1.49 8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT – UNIT PRICE FROM REF. NO. A1-741 (02).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the restrained water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, exclusion of water, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of pipe, pressure testing and disinfection of pipe, pipe restraints, joining of pipe to structures, valves, and fittings, tracer wire and locator tape, and backfilling all in accordance with the requirements of the Contract Documents.

1.50 8" DUCTILE IRON FITTINGS, FULLY RESTRAINED, ALL TYPES, MECHANICAL JOINT BY MECHANICAL JOINT – UNIT PRICE FORM REF. NO. A1-741 (04).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate



No. 1.

- B. Measurement:** Measurement for payment for this item will be based upon the number of such fittings furnished and installed in place.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of fittings within the water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of fittings, retainer glands, tracer wire and locator tape, and backfilling and all other work all in accordance with the requirements of the Contract Documents.

1.51 6" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT – UNIT PRICE FROM REF. NO. A1-741 (06).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the restrained water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, exclusion of water, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of pipe, pressure testing and disinfection of pipe, pipe restraints, joining of pipe to structures, valves, and fittings, tracer wire and locator tape, and backfilling all in accordance with the requirements of the Contract Documents.

1.52 6" BURIED GATE VALVE, MECHANICAL JOINT – UNIT PRICE FORM REF. NO. A1-741 (07).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the number of such valves furnished and installed in place.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all



labor, products and materials, equipment, and services necessary for the installation of the sewer force main pipeline, inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision and installation of the valve including retainer glands for full restraint of the valve, valve actuator, extension stem, soil pipe, valve casting, and concrete pad (or manhole cover for buried valves in pavement), and backfilling all in accordance with the requirements of the Contract Documents.

1.53 FIRE HYDRANT ASSEMBLY – UNIT PRICE FORM REF. NO. A1-741 (10).

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for fire hydrant assemblies will be based upon the number of such hydrant assemblies furnished and installed in place.
- C. Payment:** Payment will constitute full compensation for installing fire hydrant assemblies during construction including furnishing all materials, equipment, tools, labor and incidentals required to install the fire hydrant assemblies. Excavation, geotextile fabric, backfill, joint restraints, bedding material including geotextile and geogrid as applicable per plan details, shoring, necessary vertical hydrant extensions and any materials required for installation of the hydrants shall be considered incidental to the unit price.

1.54 SITE CONDITIONS SURVEYS – UNIT PRICE FORM REF. NO. A1-S-001.

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the estimated amount of the WORK satisfactorily completed. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the pre – construction photo and video survey, inclusive of all attempts to gain access necessary for the survey, all in accordance with the requirements of the Contract Documents.

1.55 SAW CUTTING OF PAVEMENT – UNIT PRICE FORM REF. NO. A1-S-002.

- A. Explanation:** This item is part of Additive Alternate No. 1 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 1.
- B. Measurement:** Measurement for payment for this item will be based upon the inch-linear feet of full depth saw cutting satisfactorily completed multiplied by the number of inches in thickness of the pavement saw cut. For instance, 1



linear foot of saw cut through 6" thick pavement will be measured as 6 inch – linear feet.

- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the full depth saw cutting of pavement, all in accordance with the requirements of the Contract Documents.

1.56 CLEARING AND GRUBBING - UNIT PRICE FORM REF. NO. A2-201 (01).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** No Measurement will be made for this item.
- C. **Payment:** Payment for this item will be made in portions of the lump sum price named in the Bid Form in accordance with the following table. Payment of the lump sum price listed in the Bid Form shall constitute full compensation for all equipment, materials, tools, labor, and incidentals necessary for clearing and grubbing and site preparation associated with the WORK in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 11 – Allowable Percent of Lump Sum Price for Clearing and Grubbing – Additive Alternate No. 2.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Clearing and Grubbing:
First Application for Payment	40
25	60
50	80
75	95
100	100

1.57 REMOVAL OF STRUCTURES AND OBSTRUCTIONS - UNIT PRICE FORM REF. NO. A2-202 (01).

- A. **Explanation:** This item is part of Additive Alternate 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** No Measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at, or in portions thereof based upon the estimated amount of the WORK completed, of the lump sum bid



price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the removal of structures and obstructions, including but not limited to disposal of debris, all in accordance with the requirements of the Contract Documents.

1.58 REMOVAL OF ASPHALT CONCRETE PAVEMENT – UNIT PRICE FORM REF. NO. A2-202 (02).

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** Measurement for payment for this item will be based upon the number of square yards of asphalt concrete pavement removed as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the removal of asphalt concrete pavement, inclusive but not limited to breaking, removal and disposal of asphalt concrete pavement, and removal of base course, all in accordance with the requirements of the Contract Documents.

1.59 ADDITIONAL EXCAVATION OF UNSUITABLE SUBGRADE– UNIT PRICE FORM REF. NO. A2-203 (01).

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** Measurement for payment for this item will be based upon the number of cubic yards of materials excavated as based on theoretical volume as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR which provides full compensation for excavation of unsuitable subgrade, removal of unsuitable subgrade and disposal of excavated unsuitable subgrade all in accordance with contract documents.

1.60 TEMPORARY ENVIRONMENTAL CONTROLS – UNIT PRICE FORM REF. NO. A2-204 (01).

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid



Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the complete provision of all temporary environmental controls required by the Contract Documents and local, State, and Federal laws, including, but not limited to the installation and maintenance of temporary environmental controls, development and maintenance of all required pollution prevention plans and associated permit fees, and all other temporary environmental controls all in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 12 – Allowable Percent of Lump Sum Price for Temporary Environmental Controls – Additive Alternate No. 2.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Temporary Environmental Controls:
<i>First Application for Payment</i>	40
25	60
50	80
75	95
100	100

1.61 CLASS II BASE COURSE (STONE) – UNIT PRICE FORM REF. NO. A2-302 (01).

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** Measurement for payment for this item will be based upon the number of square yards of base course installed as determined by field measurement along neat lines.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of Class II Base Course, inclusive but not limited to excavation to required line and grade, disposal of excavated material, placement of geotextile fabric, geogrid, placement and compaction of base course material and placement of asphalt prime coat all in accordance with the requirements of the Contract Documents.



1.62 TRAFFIC MAINTENANCE SURFACING – UNIT PRICE FORM REF. NO. A2-402 (01)

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for payment for this item shall be the square yard traffic maintenance surfacing placed, maintained, and removed, as determined by field measurements along neat lines.
- C. **Payment:** Payment for traffic maintenance surfacing at the unit price listed in the Bid Form. Payment of the price listed on the Bid Form shall constitute full payment for the production of mixtures for traffic maintenance surfacing, placement and compaction of mixtures for traffic maintenance surfacing, maintenance, and removal and disposal of traffic maintenance surfacing all in accordance with the requirements of the Contract Documents.

1.63 SUPERPAVE ASPHALT CONCRETE – LEVEL 1 – UNIT PRICE FORM REF. NO. A2-502 (01).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for payment for asphalt concrete wearing course will be made by the ton of 2,000 pounds from printed tickets provided as specified within the Contract Documents. Approved tickets will be issued for each truckload of material delivered. Material lost, wasted, rejected, or applied contrary to the Contract Documents will not be measured for payment.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the furnishing of all required materials, production of the mixtures, preparation of the surfaces on which the mixture are to be placed inclusive of tack coats, hauling the mixtures to the work site, placing and compacting the mixtures, and correcting deficiencies in surface tolerances all in accordance with the requirements of the Contract Documents.

1.64 MILLING ASPHALT PAVEMENT - NOMINAL 2 INCH THICKNESS – UNIT PRICE FORM REF NO. A2-509 (01).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for payment for this item will be based upon the square yard of asphalt concrete surfacing acceptably removed by milling as determined by field measurement along neat lines. No additional measurement will be made for multiple passes required to achieve total



milling depth shown on the drawings or as specified.

- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for milling asphalt pavement, inclusive of but not limited to removing, hauling, stockpiling and disposing of millings, all in accordance with the requirements of the Contract Documents.

1.65 TEMPORARY TRAFFIC CONTROL – UNIT PRICE BID FORM REF. NO. A2-713 (01)

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** No measurement will be made for this item.
- C. **Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the development, implementation, maintenance, adjustment, and removal of all temporary traffic controls, all in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 13 – Allowable Percent of Lump Sum Price for Temporary Traffic Controls – Additive Alternate No. 2.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Temporary Traffic Controls
Initial Erection	40
25	60
50	80
75	95
100	100

1.66 FOUNDATION MATERIAL – UNIT PRICE BID FORM REF. NO. A2-726 (01).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.



- B. Measurement:** Measurement for payment for this item will be based upon the number of cubic yards of materials, compacted and in place, placed as based on theoretical volume as determined by field measurement.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR which provides full compensation for furnish, placing foundation material and compacting to the proper relative density, furnishing and placing geotextile in accordance with plan details, furnishing and placing geogrid in accordance with plan details, and all other items necessary for furnishing foundation material in accordance with the requirements of the Contract Documents.

1.67 MOBILIZATION – UNIT PRICE BID FORM REF. NO. A2-727 (01)

- A. Explanation:** This item is part of Additive Alternate No 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the successful mobilization and de – mobilization to and from the site, all in accordance with the requirements of the Contract Documents.

Table 01 29 00 – 14 – Allowable Percent of Lump Sum Price for Mobilization – Additive Alternate No. 2.	
Percent of Total Contract Amount Earned	Allowable Percent of Lump Sum Price for Mobilization
<i>1st Application for Payment</i>	25
10	50
25	75
50	100

1.68 SEEDING – UNIT PRICE BID FORM REF. NO. A2-739 (01).

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.



- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof based upon the estimated amount of the WORK completed, of the lump sum bid price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the seeding of all lawn areas affected by construction, including but not limited to surface preparation, placement of seed, establishment, watering, and correction of deficient areas in accordance with the requirements of the Contract Documents.

1.69 CONSTRUCTION LAYOUT – UNIT PRICE BID FORM REF. NO. A2-740 (01).

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the table below. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the complete and accurate layout of all WORK, including but not limited to the recovery and establishment of baselines, elevations, traverses, and measurements all in accordance with the Requirements of the Contract Documents.

Table 01 29 00 – 15 – Allowable Percent of Lump Sum Price for Construction Layout – Additive Alternate No. 2.	
Percent of Total Contract Amount Earned:	Allowable Percent of Lump Sum Price for Construction Layout:
<i>First Application for Payment</i>	40
25	60
50	80
75	95
100	100

1.70 8" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT – UNIT PRICE FROM REF. NO. A2-741 (02).



- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe placed as determined by measurement along the centerline of such pipe as measured between outside of structures, not inclusive of the length of fittings and valves.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the restrained water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, exclusion of water, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of pipe, pressure testing and disinfection of pipe, pipe restraints, joining of pipe to structures, valves, and fittings, tracer wire and locator tape, and backfilling all in accordance with the requirements of the Contract Documents.

1.71 8" DUCTILE IRON FITTINGS, FULLY RESTRAINED, ALL TYPES, MECHANICAL JOINT BY MECHANICAL JOINT – UNIT PRICE FORM REF. NO. A2-741 (04).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for payment for this item will be based upon the number of such fittings furnished and installed in place.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of fittings within the water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of fittings, retainer glands, tracer wire and locator tape, and backfilling and all other work all in accordance with the requirements of the Contract Documents.

1.72 6" WATER MAIN, PVC, RESTRAINED, INSTALLED BY OPEN CUT – UNIT PRICE FROM REF. NO. A2-741 (06).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for payment for this item will be based upon the number of linear feet of such pipe placed as determined by measurement along the centerline of such pipe as measured between outside of structures,



not inclusive of the length of fittings and valves.

- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the restrained water main pipeline, inclusive but not limited to excavation, shoring for excavation safety, exclusion of water, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision, placement and joining of pipe, pressure testing and disinfection of pipe, pipe restraints, joining of pipe to structures, valves, and fittings, tracer wire and locator tape, and backfilling all in accordance with the requirements of the Contract Documents.

1.73 6" BURIED GATE VALVE, MECHANICAL JOINT – UNIT PRICE FORM REF. NO. A2-741 (07).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for payment for this item will be based upon the number of such valves furnished and installed in place.
- C. **Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the installation of the sewer force main pipeline, inclusive but not limited to excavation, shoring for excavation safety, provision and placement of bedding material including geotextile and geogrid as applicable per plan details, provision and installation of the valve including retainer glands for full restraint of the valve, valve actuator, extension stem, soil pipe, valve casting, and concrete pad (or manhole cover for buried valves in pavement), and backfilling all in accordance with the requirements of the Contract Documents.

1.74 FIRE HYDRANT ASSEMBLY – UNIT PRICE FORM REF. NO. A2-741 (10).

- A. **Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. **Measurement:** Measurement for fire hydrant assemblies will be based upon the number of such hydrant assemblies furnished and installed in place.
- C. **Payment:** Payment will constitute full compensation for installing fire hydrant assemblies during construction including furnishing all materials, equipment, tools, labor and incidentals required to install the fire hydrant assemblies. Excavation, geotextile fabric, backfill, joint restraints, bedding material including geotextile and geogrid as applicable per plan details, shoring, necessary vertical hydrant extensions and any materials required for



installation of the hydrants shall be considered incidental to the unit price.

1.75 SITE CONDITIONS SURVEYS – UNIT PRICE FORM REF. NO. A2-S-001.

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** No measurement will be made for this item.
- C. Payment:** Payment for this item will be made at the lump sum price on the Bid Form, or in portions thereof in accordance with the estimated amount of the WORK satisfactorily completed. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the pre – construction photo and video survey, inclusive of all attempts to gain access necessary for the survey, all in accordance with the requirements of the Contract Documents.

1.76 SAW CUTTING OF PAVEMENT – UNIT PRICE FORM REF. NO. A2-S-002.

- A. Explanation:** This item is part of Additive Alternate No. 2 (if awarded). Payment for this item will only be made for WORK associated with Additive Alternate No. 2.
- B. Measurement:** Measurement for payment for this item will be based upon the inch-linear feet of full depth saw cutting satisfactorily completed multiplied by the number of inches in thickness of the pavement saw cut. For instance, 1 linear foot of saw cut through 6" thick pavement will be measured as 6 inch – linear feet.
- C. Payment:** Payment for this item will be made at the unit price named on the bid form. Payment of said price listed on the Bid Form constitutes full compensation to be paid to the CONTRACTOR for this item, inclusive of all labor, products and materials, equipment, and services necessary for the full depth saw cutting of pavement, all in accordance with the requirements of the Contract Documents.

PART 2 -- PRODUCTS (NOT USED)

PART 3 -- EXECUTION (NOT USED)

- END OF SECTION -



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