

**ARLINGTON COUNTY, VIRGINIA**

**AGREEMENT NO. 21-DES-RFP-239  
GUARANTEED MAXIMUM PRICE (GMP) AMENDMENT NUMBER 1**

**THIS GUARANTEED MAXIMUM PRICE AMENDMENT** (“Amendment”) is entered into by and between the County Board of Arlington County, Virginia (the “County”), and Turner Construction Company, (the “Contractor”) pursuant to Agreement No. 21-DES-RFP-239 (the “Agreement”), dated February 20, 2021, between the County and the Contractor, for Construction Manager At Risk (CMAR) Services for Arlington Transit (ART) Operations and Maintenance Facility to establish a Guaranteed Maximum Price (GMP) and Time for Completion of Construction Services as set forth below.

**1. GUARANTEED MAXIMUM PRICE**

Subject to additions and deductions which may be made only in accordance with the Agreement, the Contractor represents, warrants and guarantees to the County that the total maximum cost to be paid by the County for Contractor’s complete performance under the Agreement, including, but not limited to, Final Completion of all Work, and all fees, compensation and reimbursements to Contractor, shall not exceed the total amount of sixty million, three hundred forty-nine thousand dollars (\$60,349,000) ("Guaranteed Maximum Price"). Costs which would cause the Guaranteed Maximum Price (as may be adjusted pursuant to the Contract Documents) to be exceeded shall be paid by the Contractor without reimbursement by the County.

**2. GUARANTEED MAXIMUM PRICE COMPONENTS**

The Guaranteed Maximum Price is comprised of the maximum amount payable by the County for:

- A. the Cost of the Work, as defined in the Contract Documents, for full and complete performance of the Work in strict accordance with the Contract Documents;
- B. a Construction Management Fee for the Contractor, as defined in the Contract Documents, in the amount of one million, four hundred twenty-one thousand, eight hundred fifty-two dollars (\$1,421,852); and
- C. a General Conditions Fee, as defined in the Contract Documents, in the amount of two million, four hundred thirty-seven, nine hundred fifty-three dollars (\$2,437,953).

The Guaranteed Maximum Price is further broken down into line items and categories as specified in Attachments A through E to this Amendment.

**3. BASIS FOR THE GMP**

The GMP is for the performance of the Work in accordance with the Contract Documents and the following Attachments to this Amendment:

- A. Attachment A: List of Drawings, Specifications, addenda and General, Supplementary and other Conditions of the Contract on which the Guaranteed Maximum Price is based.
- B. Attachment B: A list of Unit Prices and Allowance items as well as a statement of their basis.

- C. Attachment C: Assumptions and Clarifications made in preparing the Guaranteed Maximum Price, noting in particular any exclusions. The Assumptions and Clarifications shall take precedence over the Drawings and Specifications but shall be subordinate to the Agreement and the terms of this Amendment.
- D. Attachment D: The proposed Guaranteed Maximum Price, including a statement of the detailed cost estimate organized by trade categories, Allowances, Contractor's Contingency, and any other items, as well as the Construction Management Fee and General Conditions Fee that comprise the Guaranteed Maximum Price.
- E. Attachment E: A Construction Phase Schedule, which shall include, but not be limited to, the Substantial and Final Completion Dates upon which the proposed Guaranteed Maximum Price is based, and a schedule of issuance of the Construction Documents upon which the Substantial and Final Completion Dates are based (the "Project Schedule").

**4. INCOMPLETE DRAWINGS AND SPECIFICATIONS**

The Contractor and the County acknowledge that the Drawings and Specifications are not complete and, as of the date hereof, that such Drawings and Specifications have reached the level of approximately 90% of the total design effort. The Contractor, however, has been actively involved in the design process and hereby represents that it has a sufficient understanding of the Project to agree to a Guaranteed Maximum Price to fully complete the Project. The Contractor hereby acknowledges that the GMP Drawings and Specifications provides sufficient detail and information to provide a firm Guaranteed Maximum Price and that the Guaranteed Maximum Price proposed therein is intended to represent the Contractor's offer to fully complete the Project. The Contractor and the County agree to work together to complete the Drawings and Specifications as provided in the Contract Documents, consistent with the Guaranteed Maximum Price premises and assumptions, and with Project Schedule.

**5. DESIGN INTENT; INFERABLE WORK**

The GMP Drawings and Specifications include various clarifications and assumptions that are intended to further define the scope of Work that will be required to complete design. The Contractor has included within the Guaranteed Maximum Price sufficient amounts to cover aspects of the Work that are not shown on the GMP Drawings and Specifications.

**6. COST OVERRUNS**

Subject to additions or deductions, which may be made in accordance with the Contract, the Contractor shall be solely liable and responsible for and shall pay any and all costs, fees and other expenditures in excess of the Guaranteed Maximum Price for and/or relating to the Work, without entitlement to reimbursement from the County. The Contractor shall not be entitled to any fee, payment, compensation or reimbursement under this Agreement or relating to the Work or Project other than as expressly provided in the Agreement.

**7. ALLOWANCES**

The Guaranteed Maximum Price includes specific "Unit Price Allowance Amounts" for certain items as shown on the Schedule of Values and budgeted in the Guaranteed Maximum Price ("Allowance Items"). The only Allowance Items shall be those specifically identified as such in the Schedule of Values and in the Guaranteed Maximum Price. The Allowance Amounts represent all Costs of the Work of the Allowance Items, including, without limitation, costs of materials, labor, handling, transportation, loading and unloading and installation, as determined by the Contractor.

**8. CONTRACTOR'S CONTINGENCY**

The Guaranteed Maximum Price includes Contractor's Contingency. The Contractor's Contingency is a sum of money unassociated with any specific work to allow the Contractor to be compensated for costs and expenses, other than those which are to be included in the Construction Management Fee, in order to (i) accommodate market changes and/or estimating errors, delays and/or expediting; or (2) any causes which do not entitle the Contractor to an adjustment of the GMP, in order to complete the Project within the Guaranteed Maximum Price. The Contingency is for the exclusive use of the Contractor. Any unused Contingency will be returned to the County upon final completion of the project.

**9. CONTRACTOR'S RESPONSIBILITIES**

The Contractor has been, and will continue to be, an active participant in the design process. Given such participation, the Contractor represents that it is familiar with the scope and quality of those aspects of the Project that have not yet been fully designed and has taken such scope and quality matters into consideration in preparing each component of the Guaranteed Maximum Price. The Contractor agrees to work with the County in managing the construction and design work to complete the design process. If necessary, the Contractor shall work with the Architect to facilitate redesign or value engineering necessary or advisable for certain aspects of the Project in order to bring the cost of undesigned Work within or below the respective allowances, budgeted or allocated amounts included in the Guaranteed Maximum Price for such Work. Once the Drawings and Specifications are complete, it is recognized by the Contractor and the County that the scope of the Guaranteed Maximum Price may include Work not expressly indicated in the Contract Documents, but which is reasonably inferable from the Contract Documents, and such Work shall be performed without any increase in the Guaranteed Maximum Price or extension of Contract Time, except if and to the extent otherwise expressly provided in the Agreement.

WITNESS these signatures:

**THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA**

AUTHORIZED SIGNATURE: DocuSigned by:  
*Dr. Sharon T. Lewis*  
89B86B1AD301462...

NAME AND TITLE: DR. SHARON T. LEWIS  
PURCHASING AGENT

DATE: 6/3/2022

**TURNER CONSTRUCTION COMPANY**

AUTHORIZED SIGNATURE: DocuSigned by:  
*Darien C Grant*  
AC727024DF4C41E...

NAME: Darien C Grant  
TITLE: VP & GM

DATE: 6/3/2022

# Arlington Transit Operations and Maintenance Facility (AOMF)

Attachment A - List of Drawings,  
Specifications, and RFI's

**Drawing List**  
**Arlington Transit Facility**  
Updated March 02, 2022



Drawing #	Drawing Name	GMP Submission Set 12/21/21
	<b>Civil Drawings</b>	
C0.0	COVER SHEET	•
C0.1	OVERALL PLAN AND SOIL IDENTIFICATION MAP	•
C0.2	LEGEND	•
C0.3	NOTES AND DETAILS	•
C0.4	NOTES AND DETAILS	•
C0.5	NOTES AND DETAILS	•
C0.6	NOTES AND DETAILS	•
C0.7	NOTES AND DETAILS	•
C0.8	NOTES AND DETAILS	•
C0.9	NOTES AND DETAILS	•
C0.10	NOTES AND DETAILS	•
C1.0	EXISTING CONDITIONS PLAN	•
C1.1	EXISTING CONDITIONS PLAN	•
C1.2	DEMOLITION PLAN	•
C2.0	EROSION AND SEDIMENT CONTROL PHASE I	•
C2.1	EROSION AND SEDIMENT CONTROL PHASE II	•
C2.2	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	•
C2.3	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	•
C2.4	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	•
C2.5	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	•
C3.0	SITE PLAN	•
C4.0	GRADING PLAN	•
C4.1	DETAILED GRADING PLAN	•
C5.0	WALL PROFILES	•
C5.1	WALL PROFILES	•
C5.2	WALL PROFILES	•
C5.3	WALL PROFILES	•
C5.4	WALL DETAILS	•
C5.5	CHANNEL DETAILS	•
C6.0	UTILITY PLAN	•
C7.0	SANITARY SEWER PROFILES	•
C7.1	SANITARY SEWER PROFILES	•
C7.2	SANITARY SEWER PROFILES	•
C7.3	WATERLINE PROFILES	•
C8.0	STORM SEWER PROFILES AND COMPUTATIONS	•
C8.1	STORM SEWER PROFILES AND COMPUTATIONS	•
C8.2	STORM SEWER PROFILES AND COMPUTATIONS	•
C8.3	STORM SEWER PROFILES AND COMPUTATIONS	•
C9.0	PRE BMP MAP	•
C9.1	POST BMP MAP	•
C10.0	BMP CALCULATIONS	•
C10.1	BMP CALCULATIONS	•
C10.2	BMP CALCULATIONS	•
C11.0	PRE-DEVELOPMENT ANALYSIS - PARCEL A-1 AND OUTLOT A	•
C11.1	POST-DEVELOPMENT ANALYSIS - PARCEL A-1 AND OUTLOT A	•
C11.2	PRE-DEVELOPMENT ANALYSIS - PARCEL B-1-B	•
C11.3	POST-DEVELOPMENT ANALYSIS - PARCEL B-1-B	•
C12.0	SWM NOTES AND DETAILS	•
C12.1	UNDERGROUND DETENTION DETAILS	•
C12.2	UNDERGROUND DETENTION DETAILS	•
C12.3	STORMWATER MANAGEMENT DETAIL	•
C12.4	STORMWATER MANAGEMENT DETAIL	•
C12.5	STORMWATER MANAGEMENT DETAIL	•
C12.6	PRE AND POST-DEVELOPMENT CONDITIONS, 1-YR, 24 HR STORM	•
C12.7	PRE AND POST-DEVELOPMENT CONDITIONS, 2-YR, 24 HR STORM	•
C12.8	PRE AND POST-DEVELOPMENT CONDITIONS, 10-YR, 24 HR STORM	•

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Drawing #	Drawing Name	GMP Submission Set 12/21/21
C13.0	FIRE PROTECTION PLAN	•
C13.1	FIRE PROTECTION PLAN	•
C14.0	WATER QUALITY IMPACT ASSESMENT PRE-DEVELOPMENT CONDITION	•
C14.1	WATER QUALITY IMPACT ASSESMENT POST-DEVELOPMENT CONDITION	•
C14.2	WATER QUALITY IMPACT ASSESMENT DATA SHEET	•
C15.0	ESMT VACATION	•
C15.1	ESMT DEDICATION	•
C16.0	MAINTENANCE OF TRAFFIC PLAN	•
C16.1	MAINTENANCE OF TRAFFIC PLAN	•
DU1.0	DRY UTILITY PLAN	•
DU1.1	DRY UTILITY NOTES AND DETAILS	•
DU1.2	DRY UTILITY PROFILES	•
DU1.3	DRY UTILITY PROFILES	•
L1.0	TREE PRESERVATION PLAN	•
L1.1	TREE PRESERVATION NOTES + DETAILS	•
L2.0	LANDSCAPE PLAN	•
L2.1	LANDSCAPE CALCULATIONS + PLANT SCHEDULE	•
L2.2	LANDSCAPE NOTES AND DETAILS	•
P1.0	PHOTOMETRIC PLAN	•
P1.1	PHOTOMETRIC DETAILS	•
P1.2	PHOTOMETRIC DETAILS	•
P1.3	PHOTOMETRIC DETAILS	•
P1.4	PHOTOMETRIC DETAILS	•
P1.5	PHOTOMETRIC DETAILS	•
P1.6	PHOTOMETRIC DETAILS	•
P1.7	PHOTOMETRIC DETAILS	•
P1.8	PHOTOMETRIC DETAILS	•
<b>General</b>		
G1-000	COVER SHEET	•
G1-001	DRAWING INDEXES	•
G1-200	STANDARD ABBREVIATIONS + SYMBOLS	•
G1-300	TYPICAL MOUNTING HEIGHTS - DEVICES	•
G1-301	TYPICAL MOUNTING HEIGHTS - PLUMBING FIXTURES	•
G2-100	CODE ANALYSIS	•
G2-200	LIFE SAFETY PLANS	•
G2-201	LIFE SAFETY PLANS	•
G2-300	TYPICAL FIRESTOPPING DETAILS	•
G3-101	COMCHECK ELEVATIONS	•
PG-G0-100	COVER SHEET	•
PG-G1-100	DRAWING INDEXES	•
PG-G1-200	STANDARD ABBREVIATIONS + SYMBOLS	•
PG-G1-300	TYPICAL MOUNTING HEIGHTS - DEVICES	•
PG-G1-301	TYPICAL MOUNTING HEIGHTS - PLUMBING FIXTURES	•
PG-G2-100	CODE ANALYSIS	•
PG-G2-400	LIFE SAFETY PLANS	•
PG-G2-500	CODE ANALYSIS - OPENNESS	•
<b>MAINTENANCE BUILDING STRUCTURAL</b>		
S0-001	STRUCTURAL NOTES	•
S0-002	SPECIAL INSPECTIONS	•
S1-100	FOUNDATION PLAN	•
S1-101	FIRST FLOOR SLAB PLAN	•
S1-102	SECOND FLOOR FRAMING PLAN	•
S1-103	THIRD FLOOR FRAMING PLAN	•
S1-104	ROOF FRAMING PLAN	•
S1-105	HIGH ROOF FRAMING PLANS	•
S2-101	FOUNDATION SECTIONS	•
S2-102	FOUNDATION SECTIONS	•

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Drawing #	Drawing Name	GMP Submission Set 12/21/21
S2-103	ALTERNATE FOUNDATIONS SECTIONS	•
S3-101	COLUMN SCHEDULE AND SECTIONS	•
S3-102	BRACE FRAME ELEVATIONS	•
S3-103	TYPICAL FRAMING SECTIONS	•
S3-201	FRAMING SECTIONS	•
S3-202	FRAMING SECTIONS	•
S3-301	ROOF FRAMING SECTIONS	•
<b>PARKING GARAGE STRUCTURAL</b>		
S0-001	STRUCTURAL NOTES	•
S0-002	SPECIAL INSPECTIONS	•
S1-100	FOUNDATION PLAN	•
S1-101	LEVEL 1 SLAB PLAN	•
S1-102	LEVEL 2 FRAMING PLAN	•
S1-102A	LEVEL 2 REBAR PLAN	•
S1-103	LEVEL 3 FRAMING PLAN	•
S1-103A	LEVEL 3 REBAR PLAN	•
S1-104	LEVEL 4 FRAMING PLAN	•
S1-104A	LEVEL 4 REBAR PLAN	•
S1-105	HIGH ROOF FRAMING PLAN	•
S2-101	FOUNDATION SECTIONS	•
S2-102	FOUNDATION SECTIONS	•
S3-101	CONCRETE COLUMN SCHEDULE AND DETAILS	•
S3-102	CONCRETE BEAM SCHEDULE	•
S3-103	TYPICAL POST TENSION CONCRETE SECTIONS	•
S3-104	TYPICAL POST TENSION CONCRETE SECTIONS	•
S3-105	CONCRETE SHEAR WALL PLANS AND DETAILS	•
S3-201	FRAMING SECTIONS	•
<b>ARCHITECTURAL</b>		
A1-311	FLOOR PLAN - LEVEL 1	•
A1-321	FLOOR PLAN - LEVEL 2	•
A1-331	FLOOR PLAN - LEVEL 3	•
A1-341	FLOOR PLAN - ROOF	•
A1-411	REFLECTIVE CEILING PLAN - LEVEL 1	•
A1-421	REFLECTIVE CEILING PLANS- LEVEL 2	•
A1-431	REFLECTIVE CEILING PLAN - LEVEL 3	•
A1-511	FINISH PLAN - LEVEL 1	•
A1-521	FINISH PLAN - LEVEL 2	•
A1-531	FINISH PLAN - LEVEL 3	•
A1-611	SLAB EDGE PLAN - LEVEL 1	•
A1-621	SLAB EDGE PLAN - LEVEL 2	•
A1-631	SLAB EDGE PLAN - LEVEL 3	•
A1-641	SLAB PLAN PLAN - ROOF	•
A1-711	SIGNAGE PLAN - LEVEL 1	•
A1-721	SIGNAGE PLAN - LEVEL 2	•
A1-731	SIGNAGE PLAN - LEVEL 3	•
A1-901	FURNITURE AND EQUIPMENT PLAN - LEVEL 1	•
A1-902	FURNITURE AND EQUIPMENT PLAN - LEVEL 2	•
A1-903	FURNITURE AND EQUIPMENT PLAN - LEVEL 3	•
A2-101	OVERALL BUILDING ELEVATIONS	•
A2-102	OVERALL BUILDING ELEVATIONS	•
A3-001	BUILDING ENVELOPE TYPICAL ASSEMBLY DETAILS	•
A3-002	BUILDING ENVELOPE TYPICAL ASSEMBLY DETAILS	•
A3-101	BUILDING SECTIONS	•
A3-102	BUILDING SECTIONS	•
A3-201	WEST WALL SECTIONS	•
A3-202	SOUTH WALL SECTIONS	•
A3-203	EAST WALL SECTIONS	•

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Drawing #	Drawing Name	GMP Submission Set 12/21/21
A3-204	NORTH WALL SECTIONS	•
A3-301	EXTERIOR DETAILS	•
A3-901	ROOF DETAILS	•
A4-211	EXTERIOR PLAN DETAILS	•
A4-212	EXTERIOR PLAN DETAILS	•
A4-231	EXTERIOR PLAN DETAILS	•
A4-241	EXTERIOR PLAN DETAILS	•
A5-101	STAIR 1 PLANS AND SECTIONS	•
A5-102	STAIR 2 PLANS AND SECTIONS	•
A5-103	STAIR 3 PLANS AND SECTIONS	•
A5-150	STAIR 1 & 2 DETAILS	•
A5-151	STAIR PLANS & DETAILS	•
A5-201	ELEVATOR 1 PLANS AND SECTIONS	•
A5-202	ELEVATOR 2 PLANS AND SECTIONS	•
A5-250	TYPICAL ELEVATOR DETAILS	•
A5-601	ENLARGED FLOOR PLANS	•
A5-602	ENLARGED FLOOR PLANS	•
A6-100	TOILET ELEVATIONS	•
A6-101	INTERIOR ELEVATIONS	•
A6-102	INTERIOR ELEVATIONS	•
A6-103	INTERIOR ELEVATIONS	•
A6-200	CASEWORK LEGEND	•
A6-201	CASEWORK SECTIONS	•
A6-202	INTERIOR DETAILS	•
A6-401	CEILING DETAILS	•
A6-901	SIGNAGE STANDARDS	•
A6-902	SIGNAGE STANDARDS	•
A6-903	SIGNAGE MOUNTING AND SCHEDULES	•
A7-300	FINISH SCHEDULE	•
A7-301	FINISH NOTES AND CASEWORK SCHEDULE	•
A8-101	PARTITION SCHEDULE AND DETAILS	•
A8-201	DOOR SCHEDULES	•
A8-202	DOOR SCHEDULES	•
A8-210	TYP. INTERIOR DOOR DETAILS	•
A8-301	INTERIOR GLAZING SCHEDULE & ELEVATIONS	•
A9-100	RENDERINGS	•
A9-101	RENDERINGS	•
PG-A1-311	FLOOR PLAN - LEVEL 1	•
PG-A1-321	FLOOR PLAN - LEVEL 2	•
PG-A1-331	FLOOR PLAN - LEVEL 3	•
PG-A1-341	FLOOR PLAN - LEVEL 4	•
PG-A1-351	ROOF PLAN	•
PG-A1-411	REFLECTED CEILING PLAN	•
PG-A1-711	SIGNAGE PLAN - LEVEL 1	•
PG-A1-721	SIGNAGE PLAN - LEVEL 2	•
PG-A1-731	SIGNAGE PLAN - LEVEL 3	•
PG-A1-741	SIGNAGE PLAN - LEVEL 4	•
PG-A2-101	OVERALL BUILDING ELEVATIONS	•
PG-A2-102	OVERALL BUILDING ELEVATIONS	•
PG-A3-001	BUILDING ENVELOPE ASSEMBLIES	•
PG-A3-101	BUILDING SECTIONS	•
PG-A3-201	NORTH WALL SECTIONS	•
PG-A3-202	WEST WALL SECTIONS	•
PG-A3-203	SOUTH WALL SECTIONS	•
PG-A3-301	EXTERIOR DETAILS	•
PG-A3-901	ROOF DETAILS	•
PG-A4-201	EXTERIOR PLAN DETAILS	•

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Drawing #	Drawing Name	GMP Submission Set 12/21/21
PG-A5-101	STAIR 1 PLANS AND SECTIONS	•
PG-A5-102	STAIR 2 PLANS AND SECTIONS	•
PG-A5-150	STAIR DETAILS	•
PG-A5-201	ELEVATOR 1 PLAN AND SECTION	•
PG-A5-250	TYPICAL ELEVATOR DETAILS	•
PG-A6-901	SIGNAGE STANDARDS	•
PG-A6-902	SIGNAGE STANDARDS	•
PG-A6-903	SIGNAGE STANDARDS / SCHEDULE	•
PG-A8-201	DOOR & PARTITION SCHEDULE	•
PG-A9-101	PARKING DETAIL	•
	<b>FIRE PROTECTION</b>	
FP-101	LEVEL ONE FIRE PROTECTION	•
FP-102	LEVEL TWO FIRE PROTECTION	•
FP-103	LEVEL THREE AND ROOF FIRE PROTECTION	•
PG-FP-111	FIRE PROTECTION -LEVEL 1	•
PG-FP-121	FIRE PROTECTION - LEVEL 2	•
PG-FP-131	FIRE PROTECTION - LEVEL 3	•
PG-FP-141	FIRE PROTECTION - LEVEL 4	•
	<b>PLUMBING</b>	
P0-001	SPECIFICATIONS, LEGENDS, NOTES, AND ABBREVIATIONS	•
P1-101	UNDER SLAB - PLUMBING	•
P1-111	STORM, SANITARY WASTE AND VENT - LEVEL 1	•
P1-121	STORM, SANITARY WASTE AND VENT - LEVEL 2	•
P1-131	STORM, SANITARY WASTE AND VENT - LEVEL 3	•
P1-141	ROOF PLAN	•
P1-211	WATER AND GAS - LEVEL 1	•
P1-221	WATER AND GAS - LEVEL 2	•
P1-231	WATER AND GAS - LEVEL 3	•
P5-101	DETAILS	•
P6-101	RISER DIAGRAMS	•
P6-102	RISER DIAGRAMS	•
P6-701	SCHEDULES	•
PG-P0-001	SPECIFICATIONS, LEGENDS, NOTES, & ABBREVIATIONS	•
PG-P1-111	FLOOR PLAN LEVEL 1 - PLUMBING SYSTEM	•
PG-P1-121	FLOOR PLAN LEVEL 2 - PLUMBING SYSTEM	•
PG-P1-131	FLOOR PLAN LEVEL 3 - PLUMBING SYSTEM	•
PG-P1-141	FLOOR PLAN LEVEL 4 - PLUMBING SYSTEM	•
PG-P5-101	RISER DIAGRAMS, SCHEDULES & DETAILS	•
	<b>MECHANICAL</b>	
M0-001	SPECIFICATIONS, LEGENDS, NOTES AND ABBREVIATIONS	•
M1-002	CODE COMPLIANCE	•
M1-111	DUCTWORK PLAN - LEVEL 1	•
M1-121	DUCTWORK PLAN - LEVEL 2	•
M1-131	DUCTWORK PLAN - LEVEL 3	•
M1-141	ROOF PLAN	•
M1-211	PIPING PLAN -LEVEL 1	•
M1-221	PIPING PLAN -LEVEL 2	•
M1-231	PIPING PLAN -LEVEL 3	•
M3-101	SECTIONS	•
M4-101	ENLARGED PLANS	•
M5-101	DETAILS	•
M5-102	DETAILS	•
M5-103	DETAILS	•
M6-101	SCHEDULES	•
M7-101	CONTROLS	•
PG-M0-001	SPECIFICATIONS, LEGENDS, NOTES, & ABBREVIATIONS	•
PG-M1-111	FLOOR PLAN -LEVEL 1	•

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Drawing #	Drawing Name	GMP Submission Set 12/21/21
PG-M1-121	FLOOR PLAN -LEVEL 2	•
PG-M1-131	FLOOR PLAN -LEVEL 3	•
PG-M1-141	FLOOR PLAN -LEVEL 4	•
PG-M5-101	DETAILS & SCHEDULES	•
	<b>ELECTRICAL</b>	
E0-001	LEGENDS, NOTES AND ABBREVIATIONS	•
E0-002	FIRE ALARM LEGEND, NOTES AND DIAGRAMS	•
E0-003	NOTES	•
E1-101	ELECTRICAL SITE PLAN	•
E1-211	LIGHTING - NEW WORK PLAN - LEVEL 1	•
E1-221	LIGHTING - NEW WORK PLAN - LEVEL 2	•
E1-231	LIGHTING - NEW WORK PLAN - LEVEL 3	•
E1-241	LIGHTING - NEW WORK PLAN - LEVEL ROOF	•
E1-311	POWER PLAN - LEVEL 1	•
E1-321	POWER PLAN - LEVEL 2	•
E1-331	POWER PLAN - LEVEL 3	•
E1-341	POWER PLAN - ROOF	•
E1-411	MECHANICAL POWER - NEW WORK PLAN - LEVEL 1	•
E1-421	MECHANICAL POWER - NEW WORK PLAN - LEVEL 2	•
E1-431	MECHANICAL POWER - NEW WORK PLAN - LEVEL 3	•
E1-511	FIRE ALARM -NEW WORK PLAN -LEVEL 1	•
E1-521	FIRE ALARM -NEW WORK PLAN -LEVEL 2	•
E1-531	FIRE ALARM -NEW WORK PLAN -LEVEL 3	•
E1-541	FIRE ALARM -NEW WORK PLAN -ROOF	•
E3-101	ENLARGED NEW WORK PLANS	•
E3-102	CONDUIT RISER PLANS	•
E4-101	DETAILS	•
E5-101	SINGLE LINE DIAGRAM	•
E5-102	DIAGRAMS	•
E6-101	PANELBOARD SCHEDULES	•
E6-102	PANELBOARD SCHEDULES	•
E6-103	PANELBOARD SCHEDULES	•
PG-E1-001	LEGEND, NOTES, & ABBREVIATIONS	•
PG-E1-211	LIGHTING -NEW WORK PLAN -LEVEL 1	•
PG-E1-221	LIGHTING -NEW WORK PLAN -LEVEL 2	•
PG-E1-231	LIGHTING -NEW WORK PLAN -LEVEL 3	•
PG-E1-241	LIGHTING -NEW WORK PLAN -LEVEL 4	•
PG-E1-311	POWER & FIRE ALARM - NEW WORK PLAN - LEVEL 1	•
PG-E1-321	POWER & FIRE ALARM - NEW WORK PLAN - LEVEL 2	•
PG-E1-331	POWER & FIRE ALARM - NEW WORK PLAN - LEVEL 3	•
PG-E1-341	POWER & FIRE ALARM - NEW WORK PLAN - LEVEL 4	•
PG-E4-101	DETAILS	•
PG-E5-101	POWER RISER DIAGRAM & DETAILS	•
	<b>MAINTENANCE BUILDING LIGHTING</b>	
EA-001	LUMINAIRE SCHEDULE AND LIGHTING LEGEND	•
EA-002	LUMINAIRE SCHEDULE	•
EA-111	AOMF LEVEL1 LIGHTING PLAN	•
EA-112	AOMF LEVEL 2 LIGHTING PLAN	•
EA-113	AOMF LEVEL 3 LIGHTING PLAN	•
EA-114	AOMF ROOF LIGHTING PLAN	•
EA-301	LIGHTING ELEVATIONS	•
EA-302	LIGHTING ELEVATIONS	•
EA-401	LIGHTING DETAILS	•
EA-402	LIGHTING DETAILS	•
EA-403	LIGHTING DETAILS	•
EA-501	AOMF LEVEL 1 LIGHTING CONTROLS	•
EA-502	AOMF LEVEL 2 LIGHTING CONTROLS	•

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Drawing #	Drawing Name	GMP Submission Set 12/21/21
EA-503	AOMF LEVEL 3 LIGHTING CONTROLS	•
EA-504	AOMF MAIN ROOF LIGHTING CONTROLS	•
EA-505	AOMF LIGHTING CONTROLS RISER DIAGRAM	•
EA-506	AOMF LIGHTING CONTROL SCHEDULES	•
EA-601	ENERGY CODE COMPLIANCE CALCULATIONS	•
	<b>PARKING GARAGE LIGHTING</b>	
EA001	LUMINAIRE SCHEDULE AND LIGHTING LEGEND	•
EA002	LUMINAIRE SCHEDULE	•
EA100	SITE LIGHTING	•
EA101	SITE LIGHTING PHOTOMETRIC PLAN	•
EA111	PARKING GARAGE LEVEL 1 LIGHTING PLAN	•
EA112	PARKING GARAGE LEVEL 2 LIGHTING PLAN	•
EA113	PARKING GARAGE LEVEL 3 LIGHTING PLAN	•
EA114	PARKING GARAGE LEVEL 4 LIGHTING PLAN	•
EA301	LIGHTING ELEVATIONS	•
EA302	LIGHTING ELEVATIONS	•
EA401	LIGHTING DETAILS	•
EA-501	SITE LIGHTING CONTROLS	•
EA-502	PARKING GARAGE LEVEL 1 & 2 LIGHTING CONTROLS	•
EA-503	PARKING GARAGE LEVEL 3 & 4 LIGHTING CONTROLS	•
EA-601	ENERGY CODE COMPLIANCE CALCULATIONS	•
	<b>EQUIPMENT</b>	
Q1-100	GENERAL SHEETS	•
Q1-311	FLOOR PLAN - LEVEL 1	•
Q1-321	FLOOR PLAN - LEVEL 2	•
Q1-331	FLOOR PLAN - LEVEL 3	•
Q3-101	BUILDING SECTIONS	•
Q3-102	BUILDING SECTIONS	•
Q3-800	INDUSTRIAL EQUIPMENT SCHEDULE	•
Q3-900	INDUSTRIAL EQUIPMENT ISOMETRICS	•
Q6-311	PROCESS PIPING PLAN - LEVEL 1	•
Q6-312	PROCESS PIPING - LEVEL 2	•
Q6-404	PROCESS PIPING ENLARGED PLAN AND SECTIONS	•
Q6-500	SERVICE EQUIPMENT DETAILS	•
Q6-501	SERVICE EQUIPMENT DETAILS	•
Q6-900	PROCESS PIPING ISOMETRICS	•
Q7-100	SAFETY SIGNAGE AND STRIPING GENERAL NOTES	•
Q7-311	SAFETY SIGNAGE AND STRIPING PLAN - OVERALL PLAN	•
	<b>END</b>	

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<b>Division 00</b>	
00 31 00 - AVAILABLE PROJECT INFORMATION	•
00 31 01 - GEOTECHNICAL ENGINEERING REPORT -ARLINGTON COUNTY TRANSIT (ART) OPERATIONS AND MAINTENANCE FACILITY	•
00 71 00 - CONTRACTING DEFINITIONS	•
00 72 00 - GENERAL CONDITIONS	•
<b>Division 01</b>	
01 02 00 - GENERAL SITEWORK REQUIREMENTS	•
01 10 00 - SUMMARY	•
01 20 00 - PRICE AND PAYMENT PROCEDURES	•
01 25 00 - SUBSTITUTION PROCEDURES	•
01 30 00 - ADMINISTRATIVE REQUIREMENTS	•
01 32 16 - CONSTRUCTION PROGRESS SCHEDULE	•
01 35 53 - SECURITY PROCEDURES	•
01 40 00 - QUALITY REQUIREMENTS	•
01 41 00 - REGULATORY REQUIREMENTS	•
01 42 16 - DEFINITIONS	•
01 42 19 - REFERENCE STANDARDS	•
01 45 20 - TESTING, ADJUSTING, AND BALANCING (TAB)	•
01 45 33 - CODE-REQUIRED SPECIAL INSPECTIONS	•
01 50 00 - TEMPORARY FACILITIES AND CONTROLS	•
01 55 00 - VEHICULAR ACCESS AND PARKING	•
01 57 13 - TEMPORARY EROSION AND SEDIMENT CONTROL	•
01 57 21 - INDOOR AIR QUALITY CONTROLS	•
01 60 00 - PRODUCT REQUIREMENTS	•
01 61 16 - VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS	•
01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS	•
01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL	•
01 77 00 - CLOSEOUT PROCEDURES	•
01 78 00 - CLOSEOUT SUBMITTALS	•
01 78 23 - OPERATION AND MAINTENANCE DATA	•
01 79 00 - DEMONSTRATION AND TRAINING	•
01 81 19 - INDOOR AIR QUALITY REQUIREMENTS	•
01 91 13 - GENERAL COMMISSIONING REQUIREMENTS	•
01 91 14 - COMMISSIONING AUTHORITY RESPONSIBILITIES	•
01 91 15 - FACILITY ENCLOSURE COMMISSIONING	•
<b>Division 02 - 33</b>	
02 41 13 - SELECTIVE SITE DEMOLITION	•
03 05 05 - UNDERSLAB VAPOR BARRIER	•
03 30 00 - CAST-IN-PLACE CONCRETE	•
03 35 11 - CONCRETE FLOOR FINISHES	•
03 38 00 - POST-TENSIONED CONCRETE	•
03 45 00 - PRECAST ARCHITECTURAL CONCRETE	•
03 54 00 - CAST UNDERLAYMENT	•
04 20 00 - UNIT MASONRY	•
04 72 00 - CAST STONE MASONRY	•
05 12 00 - STRUCTURAL STEEL	•
05 31 00 - STEEL DECK	•
05 40 00 - COLD-FORMED METAL FRAMING	•
05 50 00 - MISCELLANEOUS METALS	•
05 51 00 - METAL STAIRS	•
05 52 13 - PIPE AND TUBE RAILINGS	•
05 90 00 - BARRIER CABLE SYSTEM APPLICATIONS	•
06 10 00 - ROUGH CARPENTRY	•
06 41 00 - ARCHITECTURAL WOOD MILLWORK	•
06 42 19 - PLASTIC-LAMINATE-FACED WOOD PANELING	•

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Spec Name	GMP Submission Set 12/21/21
07 05 33 - FIRE AND SMOKE ASSEMBLY IDENTIFICATION	•
07 12 00 - BUILT-UP BITUMINOUS WATERPROOFING	•
07 14 01 - FLUID-APPLIED WATERPROOFING	•
07 16 16 - CRYSTALLINE WATERPROOFING	•
07 18 00 - TRAFFIC COATINGS	•
07 21 00 - THERMAL INSULATION	•
07 21 19 - FOAMED-IN-PLACE INSULATION	•
07 26 00 - VAPOR RETARDERS	•
07 42 10.11 - COMPOSITE METAL HYBRID (CMH) SUBFRAMING SYSTEM	•
07 42 13 - METAL WALL PANELS	•
07 42 13.29 - INSULATED METAL WALL PANELS	•
07 42 64 - METAL COMPOSITE MATERIAL WALL PANELS	•
07 54 00 - THERMOPLASTIC MEMBRANE ROOFING	•
07 55 63 - VEGETATED PROTECTED MEMBRANE ROOFING	•
07 62 00 - SHEET METAL FLASHING AND TRIM	•
07 71 00 - ROOF SPECIALTIES	•
07 81 00 - APPLIED FIREPROOFING	•
07 81 23 - INTUMESCENT MASTIC FIREPROOFING	•
07 84 00 - FIRESTOPPING	•
07 92 00 - JOINT SEALANTS	•
08 11 13 - HOLLOW METAL DOORS AND FRAMES	•
08 14 16 - FLUSH WOOD DOORS	•
08 31 13 - INTERIOR NON-RATED ACCESS DOORS AND PANELS	•
08 33 23 - OVERHEAD COILING DOORS	•
08 33 23.13 - OVERHEAD RAPID COILING DOORS	•
08 36 13 - SECTIONAL DOORS	•
08 43 13 - ALUMINUM-FRAMED STOREFRONTS	•
08 44 13 - GLAZED ALUMINUM CURTAIN WALLS	•
08 62 23 - TUBULAR SKYLIGHTS	•
08 71 00 - DOOR HARDWARE	•
08 80 00 - GLAZING	•
08 83 00 - MIRRORS	•
08 88 13 - FIRE-RATED GLAZING	•
08 91 00 - LOUVERS	•
09 05 61 - COMMON WORK RESULTS FOR FLOORING PREPARATION	•
09 21 16 - GYPSUM BOARD ASSEMBLIES	•
09 22 16 - NON-STRUCTURAL METAL FRAMING	•
09 30 00 - TILING	•
09 51 00 - ACOUSTICAL CEILINGS	•
09 54 23 - LINEAR METAL CEILINGS	•
09 54 26 - SUSPENDED WOOD CEILINGS	•
09 54 46 - FABRIC-WRAPPED CEILING PANELS	•
09 65 00 - RESILIENT FLOORING	•
09 65 66 - RESILIENT ATHLETIC FLOORING	•
09 66 23 - RESINOUS MATRIX TERRAZZO FLOORING	•
09 68 13 - TILE CARPETING	•
09 72 00 - WALL COVERINGS	•
09 84 30 - SOUND-ABSORBING WALL AND CEILING UNITS	•
09 91 13 - EXTERIOR PAINTING	•
09 91 23 - INTERIOR PAINTING	•
09 96 00 - HIGH-PERFORMANCE COATINGS	•
10 11 00 - VISUAL DISPLAY UNITS	•
10 14 00 - SIGNAGE	•
10 21 13.13 - METAL TOILET COMPARTMENTS	•
10 21 16.17 - PHENOLIC-CORE SHOWER AND DRESSING COMPARTMENTS	•
10 22 39 - FOLDING PANEL PARTITIONS	•
10 26 00 - WALL AND DOOR PROTECTION	•

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Spec Name	GMP Submission Set 12/21/21
10 28 00 - TOILET, BATH, AND LAUNDRY ACCESSORIES	•
10 44 00 - FIRE PROTECTION SPECIALTIES	•
10 51 29 - PHENOLIC LOCKERS	•
10 56 10 - INDUSTRIAL STORAGE EQUIPMENT	•
10 56 17 - WALL-MOUNTED STANDARDS AND SHELVING	•
11 11 13 - INDUSTRIAL COMPRESSED AIR EQUIPMENT	•
11 11 19 - INDUSTRIAL LUBRICATION EQUIPMENT	•
11 11 20 - INDUSTRIAL FLUIDS MANAGEMENT EQUIPMENT	•
11 11 29 - INDUSTRIAL SHOP EQUIPMENT	•
11 11 33 - INDUSTRIAL VACUUM EQUIPMENT	•
11 11 36 - CUSTOM FABRICATED INDUSTRIAL SHOP EQUIPMENT	•
11 24 25 - FALL PROTECTION EQUIPMENT	•
11 40 00 - FOODSERVICE EQUIPMENT	•
12 24 00 - WINDOW SHADES	•
12 36 00 - COUNTERTOPS	•
12 48 13 - ENTRANCE FLOOR MATS AND FRAMES	•
14 21 00 - ELECTRIC TRACTION ELEVATORS	•
14 45 00 - VEHICLE LIFTS	•
21 05 00 - COMMON WORK RESULTS FOR FIRE SUPPRESSION	•
21 12 00 - FIRE-SUPPRESSION STANDPIPES	•
21 13 13 - WET-PIPE SPRINKLER SYSTEMS	•
22 05 00 - COMMON WORK RESULTS FOR PLUMBING	•
22 05 19 - METERS AND GAGES FOR PLUMBING PIPING	•
22 05 23 - GENERAL DUTY VALVES FOR PLUMBING PIPING	•
22 05 29 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT	•
22 05 48 - VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT	•
22 05 23 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	•
22 07 00 - PLUMBING INSULATION	•
22 11 16 - DOMESTIC WATER PIPING	•
22 11 19 - DOMESTIC WATER PIPING SPECIALTIES	•
22 13 16 - SANITARY WASTE AND VENT PIPING	•
22 13 19 - SANITARY WASTE PIPING SPECIALTIES	•
22 13 23 - SANITARY WASTE INTERCEPTORS	•
22 14 13 - FACILITY STORM DRAINAGE PIPING	•
22 14 23 - STORM DRAINAGE PIPING SPECIALTIES	•
22 34 00 - FUEL-FIRED, DOMESTIC-WATER HEATERS	•
22 40 00 - PLUMBING FIXTURES	•
22 47 00 - DRINKING FOUNTAINS AND WATER COOLERS	•
22 66 00 - CHEMICAL-WASTE SYSTEMS	•
23 05 13 - COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT	•
23 05 17 - SLEEVES AND SLEEVE SEALS FOR HVAC PIPING	•
24 05 18 - ESCUTCHEONS FOR HVAC PIPING	•
25 05 19 - METERS AND GAUGES FOR HVAC PIPING	•
23 05 23 - GENERAL-DUTY VALVES FOR HVAC PIPING	•
23 05 29 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT	•
23 05 48 - VIBRATION AND SEISMIC CONTROLS FOR HVAC	•
23 05 53 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT	•
23 05 95 - TESTING, ADJUSTING, AND BALANCING FOR HVAC	•
23 07 13 - DUCT INSULATION	•
23 07 19 - HVAC PIPING INSULATION	•
23 09 23 - DIRECT DIGITAL CONTROL (DDC) SYSTEM FOR HVAC	•
23 11 23 - FACILITY NATURAL-GAS PIPING	•
23 21 13 - HYDRONIC PIPING	•
23 21 23 - HYDRONIC PUMPS	•
23 23 00 - REFRIGERANT PIPING	•
23 25 00 - HVAC WATER TREATMENT	•
23 31 13 - METAL DUCTS	•

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Spec Name	GMP Submission Set 12/21/21
23 33 00 - AIR DUCT ACCESSORIES	•
23 34 23 - HVAC POWER VENTILATORS	•
23 36 00 - AIR TERMINAL UNITS	•
23 37 13 - DIFFUSERS, REGISTERS, AND GRILLES	•
23 52 16 - CONDENSING BOILERS	•
23 74 00 - OUTDOOR, DIRECT GAS-FIRED HEATING AND VENTILATING UNITS WITH ENERGY RECOVERY	•
23 74 13 - PACKAGED, VARIABLE AIR VOLUME ROOFTOP AIR HANDLING UNITS	•
23 81 26 - SPLIT-SYSTEM AIR-CONDITIONERS	•
23 82 19 - INDOOR HEATING AND VENTILATING UNITS	•
23 82 39 - UNIT HEATERS	•
23 83 16 - RADIANT HEATING HYDRONIC PIPING	•
26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	•
26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	•
26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	•
26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS	•
26 05 43 - UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS	•
26 05 44 - SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING	•
26 05 48 - VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS	•
26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS	•
26 05 73.13 - SHORT-CIRCUIT STUDIES	•
26 05 73.16 - COORDINATION STUDIES	•
26 09 23 - LIGHTING CONTROL DEVICES	•
26 09 43 - NETWORK LIGHTING CONTROLS	•
26 09 93 - SEQUENCE OF OPERATION FOR LIGHTING CONTROLS	•
26 24 13 - SWITCHBOARDS	•
26 24 16 - PANELBOARDS	•
26 27 26 - WIRING DEVICES	•
26 28 13 - FUSES	•
26 28 16 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS	•
26 32 13.16 - GAS-ENGINE-DRIVEN GENERATOR SETS	•
26 36 00 - TRANSFER SWITCHES	•
26 41 13 - LIGHTNING PROTECTION FOR STRUCTURES	•
26 43 13 - SURGE PROTECTIVE DEVICES FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS	•
26 51 19 - LED INTERIOR LIGHTING	•
26 52 19 - EMERGENCY AND EXIT LIGHTING	•
26 56 13 - LIGHTING POLES AND STANDARDS	•
26 56 19 - LED EXTERIOR LIGHTING	•
28 46 21.11 - ADDRESSABLE FIRE-ALARM SYSTEMS	•
31 10 00 - SITE CLEARING	•
31 20 00 - EARTHWORK	•
31 21 00 - BIORETENTION	•
31 25 00 - EROSION CONTROL	•
31 31 16 - TERMITE CONTROL	•
31 40 00 - SHORING AND UNDERPINNING	•
31 66 13 - SHORT AGGREGATE PIER FOUNDATION SYSTEMS	•
32 13 13 - SITE CONCRETE	•
32 14 13 - PRECAST CONCRETE UNIT PAVING	•
32 17 00 - PAVEMENT MARKINGS, SIGNS AND SPECIALTIES	•
32 17 13 - PARKING BUMPERS	•
32 31 13 - CHAIN LINK FENCES AND GATES (GALVANIZED)	•
32 31 19 - DECORATIVE METAL FENCE AND GATES	•
32 92 00 - LAWNS AND GRASSES	•
32 93 00 - EXTERIOR PLANTS	•
33 10 00 - EXTERIOR WATER SYSTEM	•
33 30 00 - SANITARY SEWERAGE	•
33 41 00 - STORM DRAINAGE SYSTEM	•
33 46 13 - FOUNDATION DRAINAGE SYSTEMS	•

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Spec Name	GMP Submission Set 12/21/21
41 22 13 - CRANES	•
<b>END</b>	

**Other Documents**  
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Document Name	Date
RFI Round 1 Log	01/07/22
RFI Round 2 Log	01/14/22
RFI Round 3 Log	01/24/22
RFI Round 4 Log	01/31/22
RFI Round 5 Log	02/08/22
RFI Round 6 Log	02/15/22
<b>END</b>	

**Project: Arlington Regional Transit Facility (GMP)****Bid Number: 20039**

RFI #	Discipline	Sheet	Detail	Spec	Question	Response	Date Submitted	RFI Author
001	Electrical	L2.0		26 00 00	Please confirm that L2.0 Landscape Plan does not accurately reflect the site lighting layout. It appears the light pole symbols are duplicated.	Lighting drawing show intent of light pole quantities with approximaly locations. Civil drawings will be revised show coordinated quantity, and final location.	01/06/22	SBM
002	Electrical	PG-E5-101 PG-E1-341		26 00 00	Per PG-E5-101 Power Riser Diagram, elevator connections are shown on Level 3. However, per PG-E1-341 Power & Fire Alarm New Work Plan these connections are shown on Level 4. Please confirm connections shown on Level 4 are correct.	Confirmed	01/06/22	SBM
003	Electrical	P1.1 EA-002		26 00 00	The Luminaire Schedule shown in the Civil Drawings (P1.1), the AOMF Drawings (EA-002) and the Garage Drawings (EA-002) are in conflict regarding fixture description, manufacturer, catalogue series and lamp details. Regarding site lighting/exterior fixtures EP1, EP1A, EP1B, please confirm we are to follow Luminaire Schedule per the Garage Drawings (EA-002).	The Luminaire Schedule in the Lighting Drawings is the most up-to-date and shows the updated lighting fixture specifications.	01/06/22	SBM
004	Electrical	EA-002		26 00 00	The Luminaire Schedule shown in the AOMF Drawings (EA-002) and the Garage Drawings (EA-002) are in conflict regarding fixture description, manufacturer, catalogue series and lamp details. Regarding exterior fixture EW1 please confirm each building will follow their respective Luminaire Schedule per EA-002.	The Luminaire Schedule in the Lighting Drawings is the most up-to-date and shows the updated lighting fixture specifications.	01/06/22	SBM
005	Mechanical	C0.8 P6-102			Reference C0.8 and P6-102. C0.8 indicates OMA oil/sand interceptor to be 1,000 gal while P6-102 indicates 1,500 gal. Please clarify what is the correct size of the interceptor.	1000 gal.	01/07/22	GLO
006	Structural	S1-102			Reference S1-102. Heating Hot Water boilers will be located between grid lines 6 and 7 and E and F. Please confirm structural reinforcement has been coordinated at this location. Please advise if a concrete pad is required at this location.	Pad required.	01/07/22	GLO
007	Architecture	A4-211			Reference A4-211, detail 10. Provide bollards details as none is shown in the structural drawings as indicated in this detail.	Arch drawings will be updated to indicate finish type and height. Structural detail is provided.	01/07/22	GLO
008	Fire Protection	FP-101			Reference FP-101. Please confirm no dry or preaction fire protection systems are required in the project.	Correct, no dry or preaction systems required or requested.	01/07/22	GLO
009	Mechanical	FP-101			Reference P1-101. Please confirm to TD is required at the South entrance of the chassis wash bay 1.	No TD is required.	01/07/22	GLO
010	Mechanical, Structural, Architectural	S1-101 S2-102 A1-611 P1-101			Refence S1-101, S2-102, A1-611 and P1-101. It appears the structural, industrial and plumbing drawings are not coordinated at the chassis bus wash pit. a) please clarify if the location of drains on P1-101 is correct as they appear to be in a high point rather than the low point indicated on A1-611. Confirm if a drain is needed at the deep section of the pit. b) please clarify what kind of drain is needed at the bus wash trench c) Provide chassis wash detail indicated in the keynote on P-101 d) 9/S2-102 appears to show a flat section while A1-611 appears to show slopes on all sections. Please clarify what is correct e) 9/S2-102 appears to show a "cover plate". Provide details of this "cover plate" f) Please confirm if a cover or grating is needed at the top of the slab on section 9/S2-102	a) thru e) will be updated in next submission to reflect a drain mounted at the vetical surface of the sump pit. f) grating rated for vehicle load	01/07/22	GLO
011	Mechanical	P7-101			Reference P7-101. The drain schedule and specifications have two different products identified with the FD designation. Please provide different designations for them and indicate where are they located	Additional Information will be provided in next submission	01/07/22	GLO
012	Mechanical, Architectural	M1-111			Reference M1-111.The domestic water heaters vents and intake ducts appear to penetrate the north façade of the building west of grid line 4. Please confirm this is the intent and provide details regarding the location, length and type of ducts to be installed in the exterior of the building. Please provide a coordinated answer with the exterior architectural elements.	Vents/Penetrations are anticipated. See MEP for type of termination, and provide sealed joint at building façade, and Air/Vapor barrier transition striping at envelope. Architectural elevation will be updated to indicate/locate penetration.	01/07/22	GLO
013	Mechanical, Architectural	M-111			Reference M-111. The following elements appear penetrate the south façade between grid line 6 and 8: 4" pvc vent for parts washer, 12" flue for natural gas fired pressure washer and 6" vent for fume extraction arm. Provide details regarding the location, length and type of ducts to be installed in the exterior of the building. Please provide a coordinated answer with the exterior architectural elements.	Vents/Penetrations are anticipated. See MEP for type of termination, and provide sealed joint at building façade, and Air/Vapor barrier transition striping at envelope. Architectural elevation will be updated to indicate/locate penetration.	01/07/22	GLO

**Project: Arlington Regional Transit Facility (GMP)****Bid Number: 20039**

RFI #	Discipline	Sheet	Detail	Spec	Question	Response	Date Submitted	RFI Author
014	Mechanical, Architectural	M-121 M4-101			Reference M-121/M4-101. 8 ducts for intake and exhaust of the heating hot water boilers appear to penetrate the south façade between grid line 6 and 7. Provide details regarding the location, length and type of ducts to be installed at the exterior of the building. Please provide a coordinated answer with the exterior architectural elements	Vents/Penetrations are anticipated. See MEP for type of termination, and provide sealed joint at building façade, and Air/Vapor barrier transition striping at envelope. Architectural elevation will be updated to indicate/locate penetration.	01/07/22	GLO
015	Mechanical	M1-141 E1-341			Reference M1-141, E1-341. Please advise if any additional ductwork is needed at the generators intake or exhaust. If so, please provide ductwork details. Per E1-341, the generators are required to have vertical air discharge and a side intake	Equipment comes as package unit--no additional ductwork required.	01/07/22	GLO
016	Mechanical	M1-211			Reference M1-211. Provide details regarding the tank vent piping termination at the exterior wall on grid line 01	Vents/Penetrations are anticipated. See MEP for type of termination, and provide sealed joint at building façade, and Air/Vapor barrier transition striping at envelope. Architectural elevation will be updated to indicate/locate penetration.	01/07/22	GLO
017	Mechanical	M1-111 M1-211			Reference M1-111 and M1-211. Provide details regarding the boundary of the in-slab radiant heating. Please indicate the grid lines limits of the radiant system.	In-slab radiant heating is still proposed. Additional Information will be provided in next submission	01/07/22	GLO
018	Mechanical	M1-211			Reference M1-211. Please provide details regarding the location of the controls, manifolds, pipe connections and tie-in to main HHW system of the in-slab radiant system	In-slab radiant heating is still proposed. Additional Information will be provided in next submission	01/07/22	GLO
019	Fire Protection	FP-101 P5-101 M5-103			Reference FP-101, P5-101, M5-103. Please provide specific details regarding the seismic bracing of fire protection, mechanical and plumbing systems. Please clarify what are the requirements of the seismic bracing and what type of certifications or PE stamps are required	See spec section XXX0548s for seismic requirements.	01/07/22	GLO
020	Mechanical	M6-101			Reference M6-101. Please provide size and manufacturers of the horizontal/cabinet hot water unit heaters or complete the schedule matrix	Additional Information will be provided in next submission. See also Addendum #1	01/07/22	GLO
021	Mechanical	M6-101			Reference M6-101. Please provide size and manufacturers of the electric unit heaters or complete the schedule matrix	Additional Information will be provided in next submission	01/07/22	GLO
022	Mechanical	M6-101			Reference M6-101. Please provide P5A and P5B pumps size and manufacturers	Additional Information will be provided in next submission	01/07/22	GLO
023	Mechanical	M7-101			Reference M7-101. Provide control schematics of the in-slab radiant heating system.	Additional Information will be provided in next submission	01/07/22	GLO
024	Electrical	E1-341			Reference E1-341. Please advise if a platform or access ladder is required to access the generators. If so, please provide details	Access points don't require an additional "catwalk"	01/07/22	GLO
025	Mechanical	PG-P5-101			Reference PG-P5-101. Provide the garage wall hydrant (WH) specifications as it is not listed in the schedule.	Additional Information will be provided in next submission	01/07/22	GLO
026	Mechanical	PG-M1-111 PG-M5-101			Reference from PG-M1-111 to PG-M5-101. Please clarify what is the HVAC scope in the garage as no equipment is shown, ductwork is greyed out, schedules are empty, and no BAS schematics are shown. Coordinate equipment electrical requirements with electrical drawings	Open Garage does not have a central heating or ventilation system. Small accessory unit heaters and exhaust fans are proposed. Additional Information will be provided in next submission. See also Addendum #1	01/07/22	GLO
027	Mechanical	PG-M1-141 PG-E1-341			Reference PG-M1-141 and PG-E1-341. Please advise if there is any additional ductwork needed at the generator to direct intake or exhaust air as PG-E1-341 calls for vertical discharge of the generator.	Equipment comes as package unit--no additional ductwork required.	01/07/22	GLO
028	Architecture	A8-201 A2-101		08 33 23	Door Schedule calls out overhead door 131.4 as a overhead coiling door. However, floor plan drawing A1-311 and detail 1/A2-101 indicate OH sectional Door. Please confirm door 131.4 should be a overhead coiling door and not a OH sectional Door.	Door 131.4 is an overhead sectional door. Drawings updated.	01/07/22	AHM
029	Architecture	A8-201 A3-102 A6-101		08 33 23	Door schedule calls for door 122.2 (Parts Clerk/Issue Desk) to be 7'-0" x 8'-0", but details 1/A3-102 & 3/A6-101 appear to show 4'-2" height, with the door bottom resting on the countertop. Also drawings A1-311 shows interior face-of-wall (FOW) mount to CMU but details 4,5, & 10/A8-210 indicate between jamb mount with the guides partially concealed in the wall and the coil above the ceiling. Please confirm the mount type, clear opening height, and if this is a between jamb mount that the coil needs to be above the ceiling.	Door 122.2 (Parts clerk desk) is to be 4'-6" tall x 8'-0" wide. Finished sill height (measured to top of integral sill) is 2'-11". Door BOD is the Overhead Door Corp Counter Door model 650. Manual operation, face of wall mounted, stainless steel guides, Integral sill, CMU jamb, bond beam head. Overhead coil exposed below ceiling. Head, jamb, sill details to be provided in IFC package.	01/07/22	AHM
030	Architecture	PG-A8-201 PG-A3-201 PG-A4-201		08 33 23.13	Door Schedule indicates doors 100A & 100B are to be 11'-0" x 8'-0", but details 1/PG-A4-201 indicates 9'-4" width, and detail 3/PG-A3-201 indicates 8'-6" height. Please confirm rapid coiling door sizes.	Clear width of doors shall be 9'-4". Building cladding opening shown as 11' x 8'-6".	01/07/22	AHM

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<b>RFIs Above Sent on 01-07-2022</b>								
031	Architecture	A1-331 A6-101		06 42 19	HR Room 305 on page A1-331 calls out detail 11/A6-101 however, this detail refers to the level 2 breakroom counter. Please provide a detail for the HR room 305 if millwork is required in this room.	Counter removed from Project in HR room 305 and Break room 303.	01/11/22	TW
032	Mechanical	M6-101			Reference M6-101. Please provide the schedule of unit HV-1 shown on M4-101 and M1-121. Please confirm specification 23 82 19 is applicable to the HV-1 unit	A complete schedule will be provided in the next submission. Yes, 238219 is applicable to this unit. Basis of design is Trane BCVD072 (2200 CFM) with a 2-row hot water coil.	01/12/21	GLO
033	Architecture	A1-903			Although gym equipment shown on furniture and equipment plan A1-903 is referenced as owner furnished and owner installed, email correspondence dated 01.03.2022 states gym equipment is contractor furnished & contractor installed. Please provide specification and basis of design for the gym equipment.	Correct, contractor furnished and installed. BOD: Life Fitness. Blocking shall be provided for all wall-mounted equipment.	01/12/21	MM
034	Architecture	A1-311			between column lines 6-7 on the north facing wall, is a tag labeled 1/A3-204. Please confirm that this was mislabeled and it should be 2/A3-204 as this section of the building is full height.	Section reference updated.	01/12/22	TW
035	Architecture	A1-311			Stair 1 references partition type P1B however does not differentiate between LGF and masonry. Please confirm what type of partition surrounds the stairs.	Interior partitions at stair are metal framed (P or S partition types are metal frame). Additional tags will be added.	01/12/22	TW
036	Architecture	A1-311			Stairs 2 and 3 have no partition note, is staircase 1 a typical application? Should stairs 2 and 3 follow suit?	Stair 1 is typical. Tags will be added.	01/12/22	TW
037	Architecture	A1-321			The elevator shaft does not have a partition label, is it the S1B or S1A-GB?	S1B. Tags will be added	01/12/22	TW
038	Architecture	A1-321 A1-331			Room 216 E. lobby and room 328 E. lobby do not show a partition type. Are these to be CMU or drywall? Please provide us with the desired partition type.	Metal framed interior partitions at 2nd level and 3rd level. 1 Hr rated. Tag will be added.	01/12/22	TW
039	Architecture	A1-331			Room 329-A dispatch vestibule Looks to show a solid surface countertop in the plan view however the elevation on 10/A6-101 does not make note of this. Is a solid surface countertop to be installed in room 329-A?	Yes, This is a solid surface countertop. Please take note of the B16 tag at the bottom of the elevation which directs to A6-200 & A6-201, as well as room casework schedule on A7-301	01/12/22	TW
040	Structural			051200-21.1.P	The recycled content percentage requirement for the various steel products still reads "insert #". Please provide the required percentages.	<ul style="list-style-type: none"> <li>• Spec language will be updated to version LEED 4. New language will be based on cost of steel that has recycled content. Design intent that a minimum of 70% is recycled content.</li> <li>• "Recycled content. Products meeting recycled content criteria are valued at 100% of their cost for the purposes of credit achievement calculation.</li> <li>o Recycled content is the sum of postconsumer recycled content plus one-half the preconsumer recycled content, based on weight.</li> <li>o The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value."</li> </ul>	01/12/22	GRH
041	Architecture	A6-901			Note on drawing A6-901 indicates signage slide system will be thin profile, to be coordinated with owner's sign contractor. Please confirm all signage is contractor furnished & contractor installed. If not, please clarify the extent of the owner's sign contractor scope, and provide point of contact.	Yes, all signage is contractor furnished and installed	01/12/22	MM
042	Architecture				Please provide specification for exterior signage shown on the overall building elevations.	Additional information provided in updated set.	01/12/22	MM
043	Architecture	A2-101 A2-102 PG-A2-102			Please provide dimensions and material type of the exterior signage: 1. OMA entrance signage at canopy i.e. detail 2/A2-101 2. OMA signage on the face of the building per details 1/A2-101 and 2/A2-102 3. OMA bay signage per detail 1/A2-102 4. PG entrance "PARK" signage per detail 1/PG-A2-101 5. PG signage on metal panel per detail 1/PG-A2-102	1: See A3/301 for canopy Signage details and materials. 2: Dimensions will be provided, match materials to canopy signage. 3: Dimensions will be provided, match materials to canopy signage. 4: See PG-A3/301 for canopy Signage details and materials. 5: See Dimensions will be provided, match materials to canopy signage.	01/12/22	MM
044	Architecture	PG-A2-101	2		Detail 2/ PG-A2-101 shows the PC-3A precast to be on a angled at the South East corner along PG-line. The architectural floor plans show the parking space at this location to protrude past the PC-3A precast while the structural floor plans show the slab following the angle. Which is correct?	45 Degree Angle of façade confirmed from foundation to top of elevation. Graphic error on floor plan will be revised to align with angle.	01/13/22	RS

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045	Architecture	PG-A2-101 PG-A2-102			The wall section detail references on the Overall Building Elevation sheets have a few detail references that are for the wrong location. For example, on sheet PG-A2-101 the North Elevation the detail reference A4/PG-A3-203 at the Parking Garage entrance is for the South Wall Section 6. The correct corresponding detail at this location is detail 3/PG-A3-201: North Wall Section 3. Please confirm this will be corrected in the next set of drawings issued.	Detail callout will be corrected.	01/13/22	RS
046	Architecture	A1-511			Please confirm elevator cabs are to receive terrazzo finish.	Yes, confirmed.	01/13/22	MM
047	Architecture	PG-A2-101	2		Detail 2/ PG-A2-101 shows the PC-3A precast to be on angled at the South East corner along PG-line. Please confirm that PC-1A precast is not angled at the South East corner at both occurrences. Also please clarify if this is the case, is the top of the PC-1A where it transitions to PC-3A open or does it get roofing?	45 Degree Angle of façade confirmed from foundation to top of elevation. Graphic error on floor plan will be revised to align with angle.	01/13/22	
048	Structural			03 30 00	spec section 033000-2.2D & 2.4.G notes recycled content percentages for various LEED point achievement. Please specify which percentage Contractor is required to provide.	Spec language will be updated to version LEED 4.	01/13/22	GRH
049	Structural			03 30 00	spec section 033000-1.5.K notes that LEED credit ID1.1 is associated with the use of fly ash as a replacement for portland cement. Please advise if this is a requirement to provide, and if so, what minimum percentage (spec 033000-2.7.B notes max percentage is 25%)	Spec language will be updated to version LEED 4. Design intent that a minimum of 15% is fly ash. Refer to structural requirements for maximum percent.	01/13/22	GRH
050	Architecture			09 30 00	Spec section 09 30 00 para 3.6A calls out waterproofing at wall tile. Please clarify wall height for waterproofing.	70in AFF at showers, 6" AFF all other locations	01/13/22	MM
051	Architecture	Q1-311 Q3-800		14 45 00	Equipment drawing Q1-311 indicates two different vehicle lifts PL01 & PL03. However, equipment schedule on drawing Q3-800 only indicates one type of lift PL03 and spec section 14 45 00 only indicates one type of lift as Rotary Parallelogram lift besides the mobil column lifts. Please confirm if equipment PL01 & PL03 are the same. If not please clarify each equipment.	Both equipment are similar type vertical rise lift flush-mounted. Will Update in drawing.	01/13/22	AHM
052	Mechanical			21 13 13	Reference 21 13 13, 1.5.C.3.h. and FP-101. Please clarify if the bus maintenance bays are to designed with an Ordinary Hazard, Group 2 hazard clarification. Please confirm this would be the area between grid lines 4 and 12 and B and E.	Confirmed, Ordinary Hazard "OH-2"	01/14/22	GLO
053	Mechanical			22 05 48	Reference 22 05 48, 2.1.B.b.c. This spec section appears to indicate it is only applicable to "Building 1 only". Please clarify what is Building 1. Please confirm this section is applicable for both the Operation and Maintenance Building AND the Garage	Spec updated to refer to both structures.	01/14/22	GLO
054	Mechanical			23 21 13	Reference 23 21 13 - 2.8 Glycol Makeup Unit. Please confirm this equipment is still required in the project as nothing is shown in the drawings.	The heating water system will not use glycol. This section will be removed from the specifications.	01/14/22	GLO
055	Mechanical	M1-121			Reference M1-121. Please clarify if ceiling circulation fans will be required at the maintenance bays. If so, please indicated the quantity and make/model	Ceiling fans will not be used due to conflicts with the bridge crane and fall protection systems. Yoke/wall mounted fans will be used instead.	01/14/22	GLO
056	Mechanical			23 83 16	Reference 23 83 16 – 2.4.B. Please clarify the location and quantity of snow melt devices indicated in this specification section. Please clarify the extent of the scope of the snow melt system	Snow melt system is not currently in the scope; this section will be removed from the specifications.	01/14/22	GLO
057	Architecture			09 21 16	Please confirm that the level 2 exterior wall is to be furred out and drywall finished as shown in detail 7/A3-001. This is the only detail we have found hinting at drywall on the exterior wall of level 2.	Level 2 interior Furring and painted GWB at exterior wall required at the following rooms: Quiet room 201, Maintenance Clerk 202-A, Superintendent Office 202-B, Conference 203, Conf Store 203-A, Breakroom 205, Storage 209, Training Supply 214, and Training Room 215.	01/14/22	TW
058	Site	C5.4			Please clarify the requirements for the drain at the base of the soldier pile wall shown in the wall section detail in dwg C5.4 (size, construction detail, connection points, etc)	We are removing the drain pipe at the base and revising detail to show weep holes just above the normal water surface elevation of the channel, which is about 3 inches from the bottom of the channel	01/14/22	GRH
059	Architecture	A1-511 A1-521 A1-531 A7-301		10 11 00	Spec 10 11 00 references markerboards and tackboards. However, they are not indicated on the finish schedule (A7-301), or shown on the finish floor plans. Please provide locations.	These will be owner purchased and installed. We will remove spec.	01/14/22	MM
060	Architecture	A1-511 A1-521 A1-531 A7-301		10 44 00	Spec 10 44 00 references fire extinguishers and cabinets. However, they are not indicated on the finish schedule (A7-301), or shown on the finish plans. Please provide locations.	Will be indicated on plans in next submission. Spaced for 75' maximum travel distance.	01/14/22	MM

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061	Architecture	A5-602 A6-100		10 21 16.17	Spec 10 21 16.17 references phenolic-core shower compartments. However they have not been indicated on the shower enlarged plans i.e. detail 1/A5-602, or on the toilet elevations (A6-100). Please clarify whether this is required at the shower locations and provide basis of design.	Premanufactured base pan will be recessed for flush installation. Tiled walls, no premanufactured shower compartments.	01/14/22	MM
062	Architecture	A6-100		10 21 16.17	Spec 10 21 16.17 references soap holder, which has not been shown on the shower room elevations (A6-100). Please confirm this is wall-mounted and provide basis of design.	Soap holder will be added. Refer to also to typical mounting height G1-301.	01/14/22	MM
063	Architecture	A6-100			Please provide locations of toilet accessories i.e. baby changing station (AC-5) and bathroom hook (AC-6) listed on the toilet accessory schedule on drawing A6-100, as none have been indicated on the interior elevations.	These are located and tagged on the enlarged plans, A5-602	01/14/22	MM
064	Architecture	A6-100			Please provide basis of design of the toilet accessories listed on the accessory schedule on drawing A6-100.	Will update for next submission on schedule.	01/14/22	MM
065	Architecture			10 21 13.13	Spec 10 21 13.13 references metal toilet partitions. Please clarify whether these partitions are ceiling-hung or floor mounted.	Floor Mounted HDPE	01/14/22	MM
066	Electrical				Please provide Division 27 specifications and Technology Drawings in order to price a complete package.	Refer to Arlington's Department of Technology Services (DTS) Network Infrastructure Standards for IT equipment specifications. Further questions should be directed to DTS.	01/14/22	SBM
067	Electrical				Please clarify the extend of the security requirements for the site, building and garage.	Locations of security access devices, CCTV cameras and supporting conduits are shown on the electrical site plan E1-101, power plans E1-3xx, E4-101, PG-E1-2xx and PG-E4-101. Refer to Arlington's Department of Technology Services (DTS) Network Infrastructure Standards for security specifications. Further questions should be directed to Arlington's Facilities Management Bureau (FMB).	01/14/22	SBM
068	Electrical				Please provide Security specifications.	Refer to Arlington's Department of Technology Services (DTS) Network Infrastructure Standards for security specifications. Further questions should be directed to Arlington's Facilities Management Bureau (FMB).	01/14/22	SBM
069	Architecture			89100	A number of bidders have expressed concern with meeting the Miami / Dade County Certificate of Acceptance requirement for the louvers. Please advise if louvers without this certification will be acceptable.	Miami/Dade certificate not required.	01/14/22	GRH
070				089100-2.1	The manufacturer section of the louver specification only has one approved manufacturer and requires the use of the substitutions procedures to use other manufacturers. Please provide at least one additional acceptable manufacturer, preferably two, and please consider adding an "or equal" statement to the spec.	Spec updated to so second acceptable manufacturer.	01/14/22	GRH
071	Mechanical	S0-001, P1-101			Reference S0-001 and P1-101. Per S0-001, Item 2.E- subdrainage: an underfloor subdrainage system shall be installed below the grade slab. P1-101 does not show an underfloor subdrainage system. Please clarify if an underfloor drainage system is required. If so, provide the design and specifications of the system	Note updated to reflect perimeter drainage pipe only at parking garage, per Geotechnical Report. Under-floor drainage system is NOT required.	01/14/22	GLO
<b>RFIs Above Sent on 01-14-2022</b>								
072	Fire Protection				Reference Turner RFI-019. Please provide specification 21 05 48 as it was not included in the GMP set and it is needed to price the FP seismic bracing	Bracing is required, section will be included in next submission.	01/18/22	GLO
073	Mech/ Arch	PG-M1-111, 121, 131			Duct size and louver size are not shown on these drawings. Please provide.	Will be indicated on plans in next submission. Plan for louver size/scope 1.5 x area required by mech.	01/18/22	GRH
074	Architecture	A5-102, A5-150			Drawing A5-102 elevations call for Stair 1 & 2 to be stainless steel posts, ss mesh, wood handrails and top rails. Drwg A5-150 shows these stairs to be standard steel with steel handrail/toprail. Please clarify the material to be used for stair posts, infill mesh, hand rail and top rail.	Stainless steel, with wood top rail.	01/18/22	GRH
075	Structural	M1-111			Dwg M1-111 calls for in-slab hydronic radiant heating. Please provide detail for how this system is integrated into the concrete slab.	Structural detail is included 4/s2-101. Refer to supplier for additional installation information	01/18/22	GRH
076	Structural	Q6-500			Details on dwg Q6-500 for hose reel support (detail 8) and Exhaust Reel Support (detail 5) refer to Structural dwgs for details on support. No details for support appear in Structural dwgs. Please provide details for support.	Structural detail is added 1/s3-203 (a new sheet)	01/18/22	GRH

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077	Structural	Q1-321	2/Q6-500		Dwg Q1-321 states to provide 6" housekeeping pads, by Arch and Struct. Struct dwg S1-102 shows one 6" housekeeping pad. Housekeeping pad detail on S2-101 shows 4" pad for mechanical units. Dwg detail 2/Q6-500 shows a pad under the duplex compressor and references the structural details. Dwg A1-611 and A1-621 show housekeeping pads. Please confirm the 6" pad shown on S1-102 and A1-321 and the pads on A1-611 and A1-621 are the only pads for shop equipment and MEP equipment required, or provide list of additional equipment to receive pads.	All housekeeping pads will be 4" unless otherwise noted. Dimensions and locations intent indicated on the plans. Final dimensions and locations of housekeeping pads to be coordinated with approved equipment shop drawings.	01/18/22	GRH
078	Architectural	A6-201			Reviewing detail 7 on dwg A6-201, there does not appear to be any in-wall steel support shown for vanities.	Provide in-wall support at each vanity.	01/18/22	GRH
079	Structural	S1-104			No dunnage or raised steel is shown for the generators on the roof. Please confirm the intent is for the generator enclosure (and RTUs) to sit on the structural steel or if an allowance should be made for dunnage not yet shown.	No dunnage.	01/19/22	GRH
080	Structural	S1-101, A3-002			Dwg S1-101 note 1 indicates 4" of stone under 4" slabs and note 2 indicates 6" of stone under 8" slabs. Detail 1/A3-002 indicates minimum of 8" of fill. Please advise if we should follow structural notes or arch detail and if arch detail, please confirm if 8" of stone is required under both 4" and 8" slabs.	Refer to structural. 6" at all locations.	01/19/22	GRH
081	Structural	S2-102			Please provide details for trench cover in Chassis wash pit shown in detail 9/S2-102 (plate finish, material, thickness, attachment method)	Structural revised to indicate bar grating.	01/19/22	GRH
082	Structural	A1-321			Provide details and sizing for the overhead folding partition, including the beam size, kickers, connection detail.	Structural details will be included in next submission. 2nd floor partition does not require kickers, 3rd floor will require kickers.	01/19/22	GRH
083	Structural/ Architecture				For the railings mounting into the precast on the parking garage, please advise if quick-bolted into the precast is the intended method of attachment. The other option is	Please provide embeded connection detail, rather than post-installed anchor.	01/20/22	GRH
084	Structural/ Architecture	A1-311 S2-102			Architectural drawing A1-311 indicates a 2' slab depression at maintenance bay 7 & 8, detail 8/S2-102 indicates a 1'-3/8" slab depression. However vertical rise lift Rotary V-Rex64 specifications indicate a collapsed height of 16 1/4". Please confirm pit depth at maintenance bay 7 & 8 should be 16 1/4" to match manufacturers specifications.	Depression confirmed at 16-1/4", lift manufacturer revised to Steril Koni.	01/20/22	AHM
085	Structural/ Architecture				Confirm maintenance bay 7 & 8 should have a 16 1/4" concrete slab between each lift platform to provide a complete flush mounted lift. If depression needs to be left between each lift platform confirm ramps are needed at both ends as a means of exiting the depression.	Two pits, one for each bay. Flush slab/mount.	01/20/22	AHM
086	Structural/ Architecture	Q1-311 Q6-500 S1-101 S2-102			Drawing Q1-311 indicates detail 11/Q6-500 at maintenance bay 7 and 1 (wash bay). However detail 11/Q6-500 does not match detail 9/S2-102 indicated for the wash bay on drawing S1-101. Confirm detail 11/Q6-500 is applicable for slab depressions at maintenance bays 7 & 8 only and not for maintenance bay 1 (wash bay).	Detail intent is to define infrastructure between vertical rise lift and controller console.	01/20/22	AHM
087	Architecture	A5-150			It appears the pre-cast terrazzo tread is embedded in the metal stair pan per detail 10/A5-150. Please confirm the pre-cast terrazzo stair tread is to be placed on top of the concrete infill on the stair pan.	Terrazzo Flush with leading nose of metal pan. No exposed terrazzo edge.	01/21/22	MM
088	Architecture	A5-150		09 66 23	Spec section 09 66 23-2.2.B calls out terrazzo at stair treads and landings. Detail 10/A5-150 indicates terrazzo on stair treads. Please confirm pre-cast terrazzo is required on stair risers in addition to the treads and landings.	Precast terrazzo at all treads, not risers. Terrazzo at intermediate landings. Terrazzo at floors as indicated on finish plans.	01/21/22	MM
089	Architecture	PG-A3-202	A3		Please define the stainless steel railing show on detail A3/PG-A3-202 (thickness of rails, spacing of posts, etc).	Price based on guard/railing similar to maintenance building, except with a stainless steel top rail and an embed connection to concrete.	01/21/22	GRH
090	Architecture	Q7-100			Please provide specification 09 91 26.16 called out on the safety stripping schedule on drawing Q7-100.	Drawing updated to indicate product BOD.	01/21/22	MM
091	Architecture	A7-300 PG-A1-711 PG-A1-721 PG-A1-731			Several wall coverings are called out on the parking garage signage plans. Please clarify which wall covering product is to be used from the ones listed on the OMA building finish schedule (A7-300).	BOD Manufacturer: Level Dital Wall covering, style Textured Carta PVC-Free + Wallmax, color: Custom Graphic	01/21/22	MM
092	Architecture	PG-A1-711 PG-A1-721 PG-A1-731 PG-A1-341			Traffic coating is noted on the top floor of the garage on dwg PG-A1-341, and Traffic coating is shown on lower floors on the signage plans of the parking garage. Please confirm extent of traffic coating and that all other areas without traffic coating are to receive concrete sealer.	All areas with no traffic coating to receive sealer. Coating at entire aisle and parking lanes at open-to-above tier 4 and upper part of tier 3. Traffic coating on drive aisle for all other tiers.	01/21/22	MM
093	Architecture	PG-M1-131			Please confirm no louvers are required for the mechanical room shown on the 4th floor of Parking Garage (PG-M1-131)	See mechanical drawings for louver sizes.	01/21/22	GRH

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094	Mechanical	P101		22 66 00	Please reference specification section 226600 and drawing P101. Please advise if chemical-waste system, including piping is only applicable to the drainage piping serving Battery Room 127. If required, provide any other locations where a chemical-waste system is needed.	Correct, only Battery Room 127.	01/21/22	GLO
095	Structural	S1-104 PG-A1-311			The Parking Garage structural plans and details show the elevator shaft as concrete. The architectural drawings show the elevator shaft as masonry construction. Please confirm to follow the structural drawings for structure.	Shaft walls updated to concrete.	01/21/22	GRH
096	Wet Utilities	Art Concept Narrative			Please confirm if the 10yr water flow of 1325CFS that was provided to Turner is an accurate volume of the existing flows through the culvert. The ART Concept Narrative dated 2019/06/27 states that (2) 12-inch pump sets would be adequate for this project. Please confirm that this is an acceptable approach. If we were to size the pumps based on the 1325 CFS we estimate that this would require 88 12" pumps.	10 year flow has been confirmed at 542 CFS. Turner to size pumps.	01/21/22	PWG
097	Structure	S1-100	Note 3		Dwg S1-100 states to provide aggregate piers under foundations. Please confirm no aggregate piers are required under the vehicle bays.	Confirmed, aggregate piers are only required under foundations, not slabs on grade or pits at vehicle bays.	01/21/22	GRH
098	Structure				Please identify any areas that require a topping slab	Hatch on framing plans will indicate areas for topping slab.	01/21/22	GRH
099	Architecture			059000	The barrier cable restraint spec calls for cables system to function as pedestrian protection and states: "Pedestrian protection - The barrier cable system must be a minimum of 42 inches (1065 mm) in height and be constructed such that a sphere 4 inches (100 mm) in diameter cannot pass through any opening per governing code." Please confirm this 4" sphere requirement.	Confirmed. Barrier cable, where proposed on this project also must function as a pedestrian guard per ICC2015 406.4.2, and prevent the passage of a sphere 4" diameter, per ICC2015 1015.4.	01/21/22	GRH
100	Architecture			084413	Spec Section 084413 - Glazed Aluminum Curtain Walls lists Spec Section 072500 - Weather Barriers. This spec section is not included with the Division 7 specifications. Please provide or confirm this reference is an error.	Updated reference.	01/24/22	RS
101	Architecture			084313 & 084413	Spec section 084313 - Aluminum-Framed Storefronts calls for the finish to be a metallic color. Spec Section 084413 - Glazed Aluminum Curtain Walls does not confirm the color to be metallic. Please confirm if color for both system are to metallic.	Non-metallic PVDF coating.	01/24/22	RS
102	Architecture	A3-002		084413	The drawings and specifications are in conflict relating to the curtainwall system. The drawings detail a captured system (Re: 11/A3-002 and similar) but the specifications state the curtainwall is to have SSG verticals (Re: 084413-2.1A) and the basis of design system is Kawneer's 1600 System 2 curtainwall which would has SSG verticals. Please confirm that the specifications are incorrect and the drawings should be the basis of the proposal.	BOD system 1600-2.	01/24/22	RS
103	Architecture			019115 & 084413	Spec Sections 019115 - Facility Enclosure Commissioning and 084413 - Glazed Aluminum Curtain Walls both make reference to spec section 014339 - Progressive Exterior Mockup. This Spec section is not included in the Division 1 specifications. Please provide or confirm this reference is in error.	See response to #105	01/24/22	RS
104	Architecture	PG-A1-351			Sheet PG-A1-351 for the Parking Garage calls for the roofs of both stair towers to be EPDM Membrane Roof with SRI. However no spec has been provided for the roofing system. Please provide this spec section.	Roof system to be PVC, aligned with Maintenance building single-ply system.	01/24/22	RS
105	Architecture			074264 & 084413	Spec Sections 074264 - Metal Composite Material Wall Panels and 084413 - Glazed Aluminum Curtain Walls both require a mock-up comprised of multiple exterior systems. Spec 074264 notes that precast is to be one of the exterior systems while 084413 notes brick masonry panel. Which is correct or are there two separate mockups required? Also, please provide clarification and details as to the extent of this mockup(S). Is this mockup to be tested? Will this mockup be required to have examples of exterior system types?	Please note that precast and thin brick is associated with the Parking Garage. At this time, the county has not described preference to include a tested envelope mock-up of the open-parking-garage envelope system. At the Maintenance building, on -site mock-up of exterior materials & transitions. For air and water infiltration testing, the first two bays of curtain wall and adjacent masonry/metal panel.	01/24/22	RS
106	Structural	S0-001			Please provide the building live loads and dead loads at the footing for use in design of the aggregate piles, or the overall loads for the buildings. Provide loads for OMF building and Parking Garage	Column loads will be provided in next submission. See structural note #2a on sheet S0-001.	01/24/22	GRH
107	Architecture	PG-A3-001			Detail 1/ PG-A3-001 indicates that Air Vapor Barrier is required at the Parking Garage. Please confirm this is correct and provide details as to the extent of where it is required.	AVB not required at envelope.	01/24/22	RS

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108	Architecture	A3-002 & PG-A3-001			Details 1/A3-002 and 1/PG-A3-001 both call for "liquid applied moisture barrier at top of foundation wall". Requirements for this material is not included in Spec Sections 071200 - Built-Up Bituminous Waterproofing or 072600 - Vapor Retarders. Please provide the requirements for this material.		01/24/22	RS
109	Architecture	A3-901 & PG-A3-901			Details B1 and C4 on sheets A3-901 and PG-A3-901 call for the use of Foam in place sealant. Requirements for this sealant are not included in the Specifications. Please provide the requirements for this material.	Closed-cell polyurethane spray foam, compatible with adjacent material systems.	01/24/22	RS
110	Architecture	A3-901 & PG-A3-902			Detail A4 on sheets A3-901 and PG-A3-901 call for "Fluid Applied Membrane Air/ Vapor Barrier". Spec Section 072600 - Vapor Retarders calls for sheet applied. Please confirm which material is required.	Sheet-applied as BOD. Drawing notes to be revised.	01/24/22	RS
111	Electrical			27 00 00	Please confirm a Public Safety Distributed Antenna System is required for the OMA Facility and the Parking Garage. If required please indicate whether this is to be tied into the Fire Alarm System.	DTS scope. County to provide response.	01/24/22	SBM
112	Electrical			27 00 00	Please clarify if a Cellular Distributed Antenna System is required for the OMA Facility and the Parking Garage.	DTS scope. County to provide response.	01/24/22	SBM
113	Architectural	A2-101 & A2-102			The metal panel system types called for within the glazed aluminum curtain walls system are MP-a and MP-b. Please clarify what is required for these metal panels. For example, is the difference between them color, pattern or both?	MP-a is lighter gray. MP-b is mid-tone green/gray. Drawings notation to be updated.	01/24/22	RS
114	Architectural	A2-101 & A2-102			The Exterior Wall Assembly Legend identifies MP-3a as Glazed Metal Panel System however, this type of metal panel is not called out on the elevations. Please clarify where this metal panel type is required.	MP-3a not used. Drawing notation will be updated.	01/24/22	RS
115	Architectural	PG-G2-500, PG-A2-101, & PG-A2-102			The Mesh Panel Infill Assembly designated as MS-1 for the Parking Garage is required to have a 75% pattern opening per PG-G2-500. However, this panel type is not included in the specifications. Please provide clarification on the requirements for this material such as shape of the openings, coatings, color, etc.	Stainless steel woven wire mesh with 2"x2" 16 GA. with minimum 75% open area.	01/24/22	RS
116	Civil	C3.0 C5.4	Typ Soldier Pile Wall Section		Civil drawing C3.0 calls for a chain link fence on both sides of the soldier pile retaining wall. Dwg C5.4 shows a rail on top of the retaining wall and notes it as a hand rail. Please advise if both this handrail and this chain link fence are required or if the handrail can be deleted.	Plan indicates locations for handrail vs fence. Where fence is located it will be guard-height and handrail is not required.	01/24/22	GRH
117	Mechanical	M1-111			Mechanical drawing M1-111 does not indicate duct work tying into the Nederman exhaust hose reel fans, please confirm if each fan needs to be tied into duct work to extract air to the outside. If so also indicate path to be taken.	See second and third floor ductwork plans. Routed through roof.	01/24/22	AHM
118	Electrical				Please confirm furnish and install of vehicle charging stations shown not be included in this proposal and only infrastructure/connections are to be included.	Car charging stations are in scope at parking garage. Bus charging stations are not in the scope of work at this time. Bus charging infrastructure conduit is in the scope of work.	01/24/22	SBM
119	Electrical	EA-403 E1-101			Please provide power branch circuit designations for exterior, site and green roof lighting as this is not shown in the plans.	Power circuits are needed for site and exterior lighting. Plans will include designations.	01/24/22	SBM
120	Electrical	E1-101			Please provide power branch circuit designations for exterior cameras and gate power as this is not shown in the plans.	Power circuits are needed for exterior cameras and gate. Plans will include designations.	01/24/22	SBM
121	Electrical	E3-101			Please indicate the BOD requirements for server racks that appear to be shown per E3-101 Enlarged New Work Plans. Please include required dimensions and manufacturer information.	DTS scope. County to provide response.	01/24/22	SBM
122	Electrical				Please indicate if there are any Bacnet and/or BAS system requirements for Lighting Interter ELTG.	No requirement	01/24/22	SBM
123	Electrical	E5-101			Please provide metering specifications indicated per E5-101 Notes 2 and 3.	Notes indicate requirement intent. A specification will be included in next submission.	01/24/22	SBM
124	Architectural	A3-002 & PG-A3-001			Parking Garage detail 1/PG-A3-001 shows perimeter drain piping at all foundations with stone backfill and geotextile fabric but not on detail 1/A3-002 for the main building. However wall section details for the main building do show a drain pipe such as 3/A3-201, 2/A3-202, 1/A3-203, and 2/A3-204. Please confirm if perimeter drain piping is required at the main building.	Perimeter drain required at lower area of tier 1 for the parking garage. At the maintenance facility, geotech report recommendations do not require perimeter drain at foundation, and it is not proposed.	01/24/22	RS
125	Structura	S1-102A			On dwg S1-102A there is a note stating "B4 x 12'-0" EVERY 3RD CONT @ 14" OC". Please what "every 3rd CONT" means? Is it at every 3rd bar of the top reinforcing? (this is typical for the rebar plans going up each level.)	One out of every three bars is intended to be continuous and spliced at the beams per 8/S3-103. Two out of every three bars to be centered in the slab span with the length shown on plan.	01/24/22	GRH
126	General				Confirm Buy American/America is not required for this project.	County to provide response.	01/24/22	AHM

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127	Electrical	E3-101			Please clarify servers and rack mounted equipment required to be provided by the EC as none are currently shown in the Contract Documents.	DTS scope. County to provide response.	01/24/22	SBM
128	Electrical	E3-101	E1-311		Please confirm the AV Vendor (Owner) is responsible for power wiring, devices, AV cabling and the Electrical contracto is responsible for rough-in only as indicated per E1-311 Note F.	Matrix of responsibility E0-001 indicates contractor provided/installed.	01/24/22	SBM
129	Structural	S2-101	4		Referencing dwg S2-101 – Detail 4 for elevator pit. CL P5, there is a void between the pit wall and the exterior wall. Is the void acceptable? Would it be better to pour the two walls as one monolithically? If no, is anything installed to fill the void?	There can either be a void or the walls can be poured monolithically. The intent is that the foundation wall under the slab on grade is consistent with the foundation walls at each side of the elevator pit.	01/24/22	GRH
130	Electrical				Please clarify IT cabling requirements for low voltage systems including but not limited to data drops, cameras, card readers and tv's. Please indicate type, number and acceptable manufacturer for cabling for each type of device.	Matrix of responsibility E0-001 indicates contractor provided/installed vs DTS FMB provided/installed	01/24/22	SBM
131	Architectural	PG-A3-001			Please confirm extent of insulation under slab- is intent to be under full slab or only at perimeter, and if only at perimeter, please advise how far in from perimeter to provide insulation	Underslab insulation to include Underslab insulation to include all in-slab radiant floor area, and a 24' margin past that area. Perimeter insulation 30" wide. Refer to COMCHECK diagram in G3 series.	01/24/22	GRH
132	Electrical	E1-331			Please indicate if WAPs are to be contractor furnished contractor installed. Please indicate power requirements to be included in pricing.	Powered over ethernet, low voltage power required at each WAP. Contrator to furnish/install.	01/24/22	SBM
133	General				Please confirm sales tax requirements for this project	County To Coordinate with Turner	01/24/22	AHM
134	RFI#051				In reference to RFI #051, please confirm all lifts will be verticle rise lift PL03.	Correct.	01/24/22	AHM
135	Q1-311			11 11 19	On drawing Q1-311 there are hose reels indicated as HR06 & HR07, these hose reels are not indicated on the equipment schedule. Please confirm these hose reels should be HOSE REEL (CA, WWF), Graco XD-20, 1'7 x 15' 1 1/2" x 1' 10" per previous drawings.	Both require electrical hose reel. HR06 (WWF, Elec) HR07 (CA, Elec)	01/24/22	AHM
136				10 56 17	Spec Section 10 56 17 indicates wall mounted shelving, please confirm where on the project these shelves are need and the quantities.	Rooms to receive shelving: - Lost/Found 300-B (West Wall) - Closet 344 (West Wall) - RCC/ Disp Storage (East Wall)	01/24/22	AHM
137	Architectural	A1-521 A1-531 A6-101			Ceramic wall tile has been called out in Breakroom 205 (A1-521), Breakroom/ Pantry 303 and Pantry 333 (A1-531); however, no wall tile has been shown on the interior elevations (i.e. details 3,6 & 7 on dwg. A6-101). Please confirm there is no wall tile in the breakroom and pantry rooms.	See finish plans for scope. Elevation drawings will be revised in next submission.	01/24/22	MM
<b>RFIs Above Sent on 01-24-2022</b>								
138	Structure				The compacted aggregate piers designers are advising that for the Parking Garage only, with the soils that are there, the size of these footings, and the magnitude of the bearing pressure, settlements are calculating at higher than 1". They have asked us to ask if you accept a proposal with 1.5" or 2" max settlement at the garage versus 1" max.	Program & use requirements define the high load criteria. Contractor shall provide a design which achieves settlement requirements as specified in the project drawings and specifications. Bidder shall raise to the attention of the Architect if a 1" maximum settlement is not achievable.	01/24/22	GRH
139	Architectural				Spec section 081416 says to reference the plans for the species of veneer however it is not listed within the project documents. please provide the species of wood you would like on the interior wooden doors	Provide species from Dooge Veneers, final color tone and species to closely match ceiling grill type WDC-1.	01/24/22	TW
140	Architectural				The woman's locker room in room 208A shows a door enclosing the shower. There is no door called out in the schedule for this. Is this to be a typical shower rod/curtain as shown in the other locations?	Door to be included at locations shown on plan. Showers at single person/NG to be curtain. All other showers to have doors.	01/25/22	TW
141	Architectural	A1-521 A1-531 A7-300			Men's restroom and locker room 208-B has PWT-2 wall tile at the shower location; however, women's restroom and locker room 208-A has CT-1 wall tile at the shower. Wall tile, CWT-1 is called out in the shower and gang bathrooms on Level 3 (A1-531), but it has not been listed on the finish schedule (A7-300). Please confirm wall tile at all shower locations is CT-1 per finish schedule.	Permit Set has been updated. All Showers to be PWT-4.	01/25/22	MM
142	Architectural	A6-202 A7-300			Finish schedule states 6" straight terrazzo base (ETB-1); however, detail 8/A6-202 shows 4" coved base. Please confirm 6" straight terrazzo base is required.	6" Cove base similar to 8/A6-202. Detail and finish schedule will be updated.	01/25/22	MM

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143	Architectural	A6-202 A7-300			Finish schedule states cove base is required for tile base PTB-1 & PTB-3. Detail 3/A6-202 shows metal cove, but does not indicate which tile base it is to be used with. Coved ceramic bases cannot be used with coved metal bases because they are not compatible. Please confirm the metal cove base is to be used with straight tile base, PTB-2 only.	Correct, 3/A6-202 only to be used with straight base PTB-2	01/25/22	MM
144	Structure/ Architectural	PG-A1-311 thru 341			In the Parking Garage, there appears to be a topping slab or thickened slab in the area of the stairs and elevator. Dwg 311 notes and shows an ADA curb cut and 3" sidewalk curb. Dwg 321 notes a 3" sidewalk curb and an ADA curb cut and shows some dimensions where the curb cut is shown on lower floor. Dwg 331 does not note a curb cut but shows some lines in the area where the curb cut is shown on lower floors. Dwg 341 notes a curb cut and shows a curb cut. Please confirm that these are to be 3" topping slabs, the locations of the edges of the topping slabs, that they occur on all floors, any details regarding reinforcement, bonding, dowels, etc, and the locations of all curb cuts. Please also clarify Detail A3/PG-A3-202 which appears to show an additional slab on several floors in section but no topping/sidewalk slab is shown in plan view in this section area.	Structural detail is further clarified in the revised drawings. Design intent still includes a 3" topping slab.	01/25/22	GRH
145	Architectural	PG-A3-201	3		Detail 3 appears to show the horizontal rails of the railings shown and noted in detail 4. Please confirm if a handrail is required in detail 3 or not.	Per VCC 1015, guardrail protection is required a minimum of 42" above occupied surface. Toprail indicated is required.	01/25/22	GRH
146	Architectural	5&6/ PG-A5 101, S-104 & 5			Please clarify the construction build-up of the roof level and the intermediate decking level between the roof and the level 4 slab. Is it not clear in the structural dwgs how these two levels are supported and unclear in the architecturals how the interstitial space is accessed.	See revised structural drawings. Steel framing has been raised to directly under deck.	01/25/22	GRH
147	Architectural	A1-411			Please provide the ceiling finishes for Maintenance Bay? Is insulation required between maintenance areas and conditioned space above?	Painted finish compatible for SFRM is indicated for the entire ceiling of the maintenance bay on the RCPs. Insulation is not required above bays.	01/26/22	SRS
148	Architectural	A7-300		33511	Please provide the ceiling finishes for Maintenance Bay? Is insulation required between maintenance areas and conditioned space above?	See response to #147		
149	Architectural			074264.2.2.5	074264.2.2.5. Specification requires NFPA 285 testing the must be performed specifically for this project. This is atypical and is costly. Typically the Architect coordinates and provides listed manufacturers/products that comply with NFPA 285 and the GC provides the non-project specific testing reports.	Previously tested equivalent system will be acceptable.	01/26/22	SRS
150	Architectural				Is compliance to NFPA 285 required? If so, Have the products listed in the specifications (air barrier, metal panel, cavity insulation, in-wall insulation, glass curtainwall w/insulation and metal panel) been coordinated for compliance with NFPA 285?	See response to RFI#149	01/26/22	SRS
151	Architectural	PG-A1-411			Please provide elevations on the plan for parking facility decks. Elevations to indicate sloping concrete, washes, channels and drain elevations.	Revised drawings show elevations.	01/27/22	SRS
152	Structural	S2-101, S1- 100, C2.1			Based on the Civil Drawings the parking facility is 58' . Structural drawings indicate top of footer at the PF entrance at 50'. With the F14 footer being 38" thick, the bottom of footer will be approx 11 deep. Is this correct? If so, can these footers be raised?	Utility service entrances and associated duct banks are positioned for target inverts. Footings are designed at a consistent datum below utility crossings, for utility crossings to occur in the foundation wall. F14 footing depth is correct.	01/27/22	SRS
153	Architectural	PG-A1-311			See the note "Provide waterproofing above electric room footprint" at CL P1/PA. Please provide produce types and details for waterproofing.	Drawings revised to show sloped concrete at Bike Storage Room at level 2. Floor Coating to be applied to top of sloped concrete. At the electrical room, provide drip pans at each piece of equipment. At minimum, pans shall be fabricated from stainless sheet metal with edges 1'-2" high, with pan drain piped vertically to the floor drain. Pans shall be secured suspended from deck above according to updated details in drawings.	01/27/22	SRS
154	Architectural	A3-001	7	074264	The drawings and specifications are in conflict relating to the metal wall panel system. The drawings detail a dry-set system (Re: 7/A3-001 and similar) but the specifications state for it to be wet-sealed (Re: 074264-2.2A). Please confirm which system you are intending.	Both systems are required. Spec will be revised to reflect this requirement.	01/31/22	RS
155	Architectural			074213 & 074264	Spec Sections 074213 - Metal Wall Panels and 074264 - Metal Composite Panels note the finish is to be metallic. (ref 074213-2.2.A.9 and 074264-2.4.A) The description in the Exterior Wall Assembly does not indicate the finish ito be metallic. Please confirm if these metal panel are to be metallic.	Metallic will be removed. Finish will be PVDF in a standard color.	01/31/22	RS

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156	Architectural	PG-A4-201			On sheet PG-A4-201 there are notes identifying Architectural Precast Panels as 6" and 8". However, the details appear to show an additional cladding for the 8" panels. Please confirm if this cladding is representing the thin brick. If so, the overall thickness of the panel would be greater than 8". Please confirm the overall thickness of the Architectural Precast panels are to be 6" and 8" including cladding.	Correct 6" typical thickness. 8" thick where thin-brick cladding is indicated--per drawings.	01/31/22	RS
157	Architectural	PG-A1-351		071800	On sheet PG-A1-351 there is a note for the Traffic Coating which states, "Concrete Traffic Coating, color to achieve SRI criteria..." Spec Section 071800 - Traffic Coatings makes no mention of SRI requirements or color. Please provide this information.	Spec will be revised to include this information.	01/31/22	RS
158	Architectural	G2-100		078123	Sheet G2-100 notes Base Building Fire Resistance Requirements for Structural Frame is to be 1-hour. Spec Section 078123 - Intumescent Fireproofing calls for 2-hours. Please confirm basis of design is 1-hour as stated on sheet G2-100.	Spec revised to refer to drawings for required fire ratings.	01/31/22	RS
159	Architectural	A3-202	2		Per RFI #124 response, a perimeter drain is not required at the maintenance facility. Detail 2/A3202 shows a cast iron boot tied into a downspout which connects to a perimeter drain. Based on the response to RFI #124, please confirm the cast iron boot is not required.	Cast iron boot required. Connection to storm line per civil drawings.	01/31/22	RS
160	Structural	S0-001	Note 2A		The structural drawings call for aggregate piers but do not mention the ductile iron piles (DIP) recommended in the geotechnical report (page 11). Are these DIPs not required, or does the new soldier pile retaining wall address the surcharge concern? If required, please show extent required.	In alignment with the December 9th 2021 discussion with CMAR, DIP is not part of the design.	01/31/22	GRH
161	Site				<p>The stream channel flows noted in an email dated 1/24/22 are the following:  1-YR Storm = 223.2 CFS,  10 -YR Storm = 542.7 CFS,  25-YR Storm = 719.2 CFS,  100-YR Storm = 1060.2 CFS</p> <p>Based on the Limited LOD that is available, only a small area is available for temporary detention and a continually flow matching the stream flow would need to be maintained in order to not allow the temporary dam to be overtopped. In order to pump the 10 year storm event a system of approximately 33 - 12" pumps would be required. This limited LOD does not allow for this quantity of pumps in addition to it being cost prohibitive. One solution would be to plan for 2 to 3 - 12" pumps which would handle the normal and one year storm events, and when the flow exceeds the capacity of the pumps the water would overtop the temporary dam and flow through the original stream channel. The temporary dam would most likely be constructed of stacked sand bags and would not be higher than the existing stream channel banks. We would carry an allowance for cleanup of the stream channel after these events should they occur during construction and require it. Please advise if this is not acceptable and if not please advise how the stream flow should be handled.</p>	We believe the solution presented would be reasonable for a normal weather condition. Whether the county or an inspector will deem it allowable is still an item that will need confirmation and may come up during the site plan review process. The main concern is that we cannot create any adverse flood affects to the downstream properties (CubeSmart). Further discussion on the appropriate solution needs to continue to find a comfortable solution that will not create an issue during construction site inspection.	01/31/22	PWG
<b>RFIs Above Sent on 01-31-2022</b>								
162	Architectural				the plans do not differentiate between manual or motorized shades and the spec references both. Please provide clear direction as to which is required and where.	Manual.	02/02/22	TW
163	Landscape				L2.2 Street Tree Planting Pit (1 of 2) shows a 4" perforated HDPE pipe to be installed and connected to a storm system or Drain pit. Please confirm which storm system on the plans shall be used to connect to this perforated pipe.	The 4" perforated drains will be removed from the details as they will not be used for these tree planting pits. We will coordinate with the county to ensure it is not an absolute requirement.	02/02/22	PWG
164	Architectural			122400	spec 12 24 00 lists a number of acceptable manufacturers of the window shades however the plans call out for the fabric to be ecoveil 1550 which is only offered through mechoshade. If other manufacturers are accepted, please provide a corresponding fabric.	BOD is Ecoveil 1550. Spec will allow alternate with matching openness and eco-friendly characteristics.	02/02/22	TW
165	Architectural	A8-301			Page A8-301 lists the fire rated barrowed lites as 6' x 14' however this exceeds the maximum dimensions that the manufacturer can provide, please advise	Frame is subdivied into smaller lites on drawing A8-301.	02/02/22	TW

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166	Architectural	A8-201 A8-202			the door schedule on page A8-201 and A8-202 do not specify corresponding STC ratings for the DFH. Please provide additional information on the STC rating of the doors.	Provide STC 50 with sound control door assembly at door #215.1 AND #215.2 (Training), #203 (Conf), #311 (GM CONF), #323 (CONFERENCE OPS), #325B.1 AND #325B.2 (OPS MANAGER), #337 (QUIET), #341A AND #341B (TRAINING OPS). Spec section added "WOOD SOUND CONTROL ASSEMBLY".	02/02/22	TW
167	Civil	C5.0 C5.1 C5.5			Sheet C5.5 Cut section AA indicates the left side(wall one on C5.0) as a soldier pile and lagging wall and the right side (wall 2 on sheet C5.1) as a cast in place wall. Sheet C5.1 indicates the right side (wall two) should be soldier pile. Please confirm the design intent is for Section AA to have soldier pile / shotcrete walls on both sides	The wall the right site should also be a soldier pile wall. The detail will be revised accordingly.	02/04/22	PBK
168	Civil				Please advise if any special provisions (sleeves, grade beams, etc) are required where new walls (gravity and soldier pile) cross underground utilities; specifically the 36" DIP Sanitary and storm lines.	Special provisions shall be outlined by the delegated designer/structural wall designer.	02/04/22	PBK
169	Architecture	A1-511 A1-521 A1-531		099123	Interior painting specification 099123 para 2.3A calls for epoxy paint at walls, ceilings and bulkheads. Please confirm epoxy paint is to be applied at areas called out on the finish floor plans only.	All surfaces of wet rooms, walls-ceilings-bulkheads-etc, to be finished with epoxy paint. Where finish floor plans indicate epoxy paint at wall, design intent extends to require epoxy paint at ceilings and bulkheads.	02/07/22	MM
170	Architecture	A7-300		033511 099123	Specification 033511 calls for concrete sealer finishes i.e. SC-1 thru SC-4 on finish schedule (A7-300). However, specification 099123 para 2.3F calls for transparent finish on concrete floors. Please clarify which areas the interior painting spec is referring to.	See finish plans. All SC-1, SC-2, and SC-3 are transparent with no color. SC-2 is transparent, and is the standard finish for concrete unless otherwise noted. Reference removed from division 9.	02/07/22	MM
171	Architecture	A7-300		033511	Specification 033511 calls for different concrete floor finish applications, but does not indicate where they are to be applied. The finish schedule lists different sealed concrete types but does not indicate product information. Please confirm para 2.2 i.e. liquid densifier and hardener is to be applied at sealed concrete, SC-1 thru SC-3 locations.	No. See finish plans. Densifier and hardener applies only to SC-1 (the vehicle bays and supporting bays with heavy equipment)	02/07/22	MM
172	Architecture	A7-300		033511	The finish schedule calls out Surecrete Eco-Stain for sealed concrete, SC-4. Will it be acceptable to use solid pigmented sealer in lieu of the specified opaque sealer? Are we to assume the accepted manufactures listed on specification 033511 para 2.3B can be applied here?	Other manufacturers with products equivalent to the BOD are acceptable. See finish schedule A7 series. Design intent is for a "color stain" appearance, rather than "opaque." To be finished per manufacturer's written recommendations. Spec will be revised to align with schedule.	02/07/22	MM
173	Architecture	A6-202			Please confirm detail 4/A6-202 is not utilized on this project as there is no base that has been identified on a solid surface.	Refer to Casework Schedule A7-series. SS base at reception area.	02/07/22	MM
174	Architecture				Regarding the wall between the Maintenance Bay and the Chassis Wash Bay, please confirm if this wall is to be drywall (as indicated by the frame type for door 131.1 as G1) and please advise partition type. Also advise if the wall is to CMU, whether the floor slab needs to be thickened at this location and if so, please provide detail.	Partition tag added. The partition is 8" CMU. See structural detail for thickened slab or footing, depending on contractor sequence.	02/07/22	GRH
175	Architecture			071616	Spec Section 071616 - Crystalline Waterproofing notes that this type of waterproofing is to be applied inside of the elevator pits. Please clarify if the crystalline waterproofing is also required at the maintenance bays, parts lift, and chassis wash sump pit. If crystalline waterproofing is not required at these locations, please clarify if any, and what type of waterproofing is needed.	Provide Crystalline Waterproofing at all slab-on-grade recesses/pits. Notes added to slab plan.	02/07/22	RS
176	Architecture	G2-100		078123	Sheet G2-100 notes the fire rating for the Maintenance Building is to be 1-hour. Per Spec section 078100 - Intumescent Mastic Fireproofing part 2.2.b & C states a rating of 2-hours. Please confirm BOD is 1-hour.	1 HR confirmed per G-Series Code Sheets	02/07/22	RS
177	Architecture			078100	Spec Section 078100 - Applied Fireproofing lists CAFCO products 400 and Blaze Shield II as approved manufactures. Part 2.3.A.1 notes that the composition is to be gypsum based, not mineral fiber based. CAFCO Blaze Shield II is a mineral based product. Please confirm CAFCO Blaze Shield II is an approved product.	Use mineral fiber based products. Blaze Shield II will be deleted.	02/07/22	RS
178	Architecture	A2-102, PG-A2-101, PG-A2-102			Please confirm that the perforated metal panel type PR-1A and the perforated metal panels within the SF-1 framing (both in the Parking Garage) are the same perforated panels identified as MP-4A on the Maintenance Building. If not, please clarify the manufacturer and product for the PR-1A and SF-1 perforated panels.	Same panel pattern type, difference finish colors are utilized on project. Suffix indicates color "a" is and color "b". See updated drawings for revised tag.	02/07/22	RS
179	Architecture			099600	Specification 099600 calls for high performance coatings but none has been identified on the plans. Please confirm this spec is not applicable.	This section specified the epoxy paint referred to in RFI 169.	02/07/22	MM

**Project: Arlington Regional Transit Facility (GMP)****Bid Number: 20039**

RFI #	Discipline	Sheet	Detail	Spec	Question	Response	Date Submitted	RFI Author
180	Architecture			097200	Reference specification 097200 para 1.4J. Please confirm extra material for wall coverings is not required as this cannot be applied for custom wall coverings.	No attic stock required for custom graphics.	02/07/22	MM
181	Architecture	A5-201 A5-202 PG-A5-201		14 21 00	Specification 14 21 00 indicates all elevators (1, 2 & P1) to be 4000lb capacity and with a speed of 350 fpm. The hoistway size needed for this elevator type needs to be 9' 8" x 9' 5". However elevator 1 hoist way is indicated as 9' 8" x 7' 8" per details on drawing A5-201. Also garage elevator hoistway is indicated as 9'8" x 9' 11 3/8" per details on drawing PG-A5-201. Please confirm drawings will be updated to indicate all hoistways to be 9' 8" x 9' 5". If not confirm all elevator capacities and speeds needed.	Speed acceptable at 150 fpm. Hoistway dimension at elevator #1 cannot be increased. Drawings show cab configuration intent.	02/07/22	AHM
182	Architecture	A1-511			Finish plan A1-511 calls for paint type P1 at chassis wash bay 1. Manufacturer recommends Macro Epoxy 646 at this location. Please confirm this is acceptable.	Yes, this is acceptable epoxy. Note that paint applied to ceiling shall be compatible with SFRM.	02/07/22	MM
183	Architecture	Q1-321 Q3-800			Drawing Q1-321 indicates BS03 equipment near the straddle parts lift. This equipment is not listed on the equipment schedule, please confirm this is the same equipment as BS02 - Bulk Shelving rack. if not, provide equipment description including manufacturer, size and quantities.	BS03 and BS02 are both different lengths. Will update for next submission on schedule.	02/07/22	AHM
184	Architecture				Please confirm no additional dunnage and penetrations are needed at building facility roof for future roof top solar panels.	Response to be coordinated with County.	02/07/22	AHM
185	Architecture	PG-A1-711 PG-A1-721			Reference RFI #91. Wall covering called out on the PG signage plans cannot be applied on uneven surfaces such as concrete walls. Please advise.	Drawings show updated material information. "MNF: ALUMIGRAPHICS, STYLE: EXTERIOR SMOOTH"	02/07/22	MM
186	Architecture	PG-A3-101			There are numbers at the elevator lobby in the parking garage per detail 1/PG-A3-101. Are they to be painted?	Wall covering will include custom graphic/numbering. See RFI#185	02/07/22	MM
187	Architecture	A7-300		096623	Finish schedule calls out Master Terrazzo as the basis of design for terrazzo; however, they have not been listed as an approved manufacturer in the terrazzo specification. Please clarify.	BOD Master Terrazzo is added to the spec.	02/07/22	MM
188	Architecture	A1-521 A5-601			Wall tile scope is inconsistent on the finish floor plans e.g. level 2 women's and men's restroom/ locker (208-A & 208-B). Furthermore, there is only one elevation for each bathroom on drawing A5-01. Please clarify intent of bathroom wall tiles for each room or provide elevations indicating the intent.	Drawings updated to include designation of floor finish plans. Where indicated, tile is full height.	02/07/22	MM
189	Plumbing			111113	Spec section 11 11 13 refers to specifications 221513, 221513.11 and 221519. However these spec sections have not been provided. Please provide the additional specifications.	We will be adding 22 15 13 spec section for next submission. We will correct 11 11 13 spec . We are not including 22 15 13.11 and 22 15 19.	02/07/22	AHM
190	Architecture	A5-601			It appears there are locker benches in the locker rooms as indicated in Women's RR and Locker room 208-A on detail 1/A5-601. Please provide basis of design.	Drawings updated. Schedule indicates BOD.	02/07/22	MM
191	Architecture	A5-601 A5-602		105129	Specification 105129 para 2.2A indicates locker depth at 20"; however on the drawings locker depth appears to 18". Please confirm locker depth is 18" per enlarged floor plans.	Drawings updated. Both sizes are required. Schedule indicates size.	02/07/22	MM
<b>RFIs Above Sent on 02-08-2022</b>								
192	Structural/Civil			316613	Please confirm that in addition to the specified "GeoPiers" system, that "Vibro-Piers" by Keller, and Vibro Stone Columns (VSC) by CNC Foundations, are acceptable equals for the aggregate pier scope.	These equals are acceptable	02/09/22	GRH
193	Structural/ Architectural				We plan to use bond beam lintels in lieu of precast lintels. Please advise any restriction to this.	An alternative to precast lintels is described in lintel schedule and structural notes as "Structural Steel". There are no precast lintels specified at the OMA. Contractor shall identify unique condition where precast or steel systems are not feasible.	02/09/22	GRH
194	Architectural		8/A3-001		Provide specification for 2" cast stone panels noted in drawings.	Refer to section 04 72 00 - Cast Stone Masonry.	02/09/22	GRH
195	Structural		10/S3-202		Provide the locations where this detail is to be applied	Section 10/S3-202 occurs at the third floor of both elevator shafts along the perimeter wall. It is called out at Elevator 2 on sheet S1-103. We will add a callout at Elevator 1 on sheet S1-103 for clarity.	02/09/22	GRH
196	Sitework		C7.0/C1.0		Sanitary Manholes E and F are shown to be existing in the Sanitary Sewer Profiles on Sheet C7.0. These manholes are not shown to be existing on the Existing Conditions Plan, sheet C1.0. Please confirm whether or not these two manholes are existing.	Sanitary Manholes E and F are both proposed structures.	02/10/22	PWG

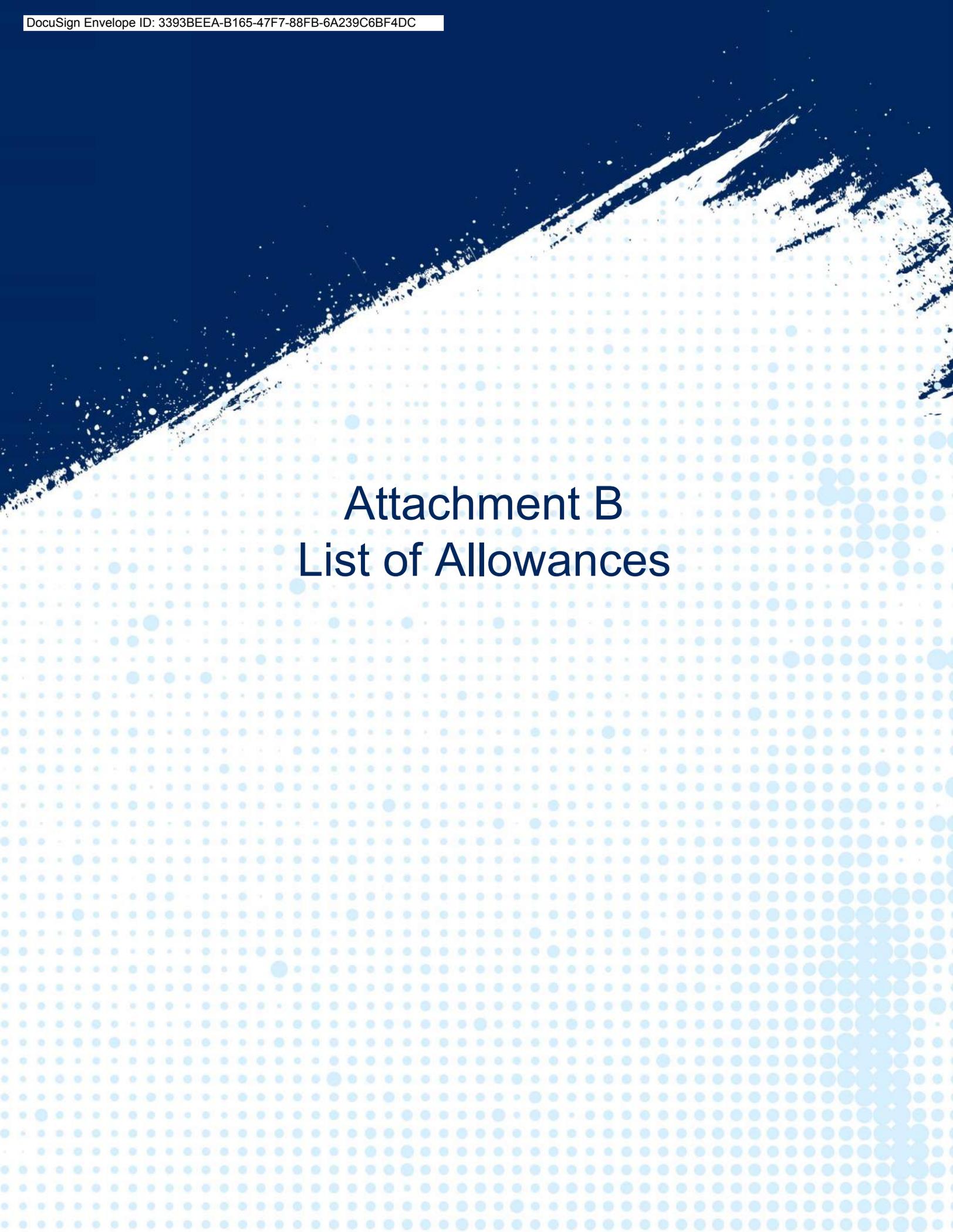
**Project: Arlington Regional Transit Facility (GMP)****Bid Number: 20039**

RFI #	Discipline	Sheet	Detail	Spec	Question	Response	Date Submitted	RFI Author
197	Architectural	PG-A4-201	1	321413	Drawing PG-A4-201 calls for DETECTABLE WARNING SURFACE. There does not appear to be a spec for this product, other than spec 321413 for detectable warning pavers. Please confirm that pavers are only required in sitework, and the detectable surface in the garages is not pavers, and please provide product to use in Parking Garage in all locations (occurs at entrance and at all floors)	At garage concrete, detectable warning is not a paver. BOD <a href="https://armor-tile.com/">https://armor-tile.com/</a>	02/10/22	GRH
198	Architectural				Finish plans show terrazzo at stairs up to level 3. Please clarify if terrazzo is required from level 3 to the roof.	Terrazzo is not required at stair which connects level 3 to Roof Level. Terrazzo to remain at level 3 landings (Identified as Room S1-3 and S2-3 on Finish Plans).	02/11/22	MM
199	Architectural	A5-150			Detail 10/A5-150 does not clarify how terrazzo at the intermediate stair landings is to be placed. Is 1/2" poured terrazzo acceptable? Please provide detail to clarify.	Design intent is for poured and precast terrazzo mixes to match. Intermediate landings at stairs to be poured.	02/11/22	MM
200	Architectural	A6-901		101400	Signage standard sheet (A6-901) calls out 2/90 slider signage system; however, it has not been listed in the interior signage spec 101400. Please confirm if equal substitutes will be acceptable in lieu of the 2/90 slider signs.	County confirmed proprietary spec is required. No substitutions are acceptable.	02/11/22	MM
201	Architectural	8/A3-002		074213	Spec Section 074213 - Metal Wall Panels calls for the BOD to be Morin VB-36 type panels. Detail 8/A3-002 shows Morin F-8 type panels. Please confirm BOD is Morin VB-36, Exposed Fastener type panels and not Morin F-8, Concealed Fastener type panels.	BOD VB-36 Formed metal panel, oriented with ribs running horizontally, with perforations and secured with exposed fasteners.	02/11/22	RS
202	Architectural	EA-301 EA-302			Note 15.07 on the lighting elevations (EA-301 & EA-302) indicates that the exterior signs are to be internally illuminated. Please clarify if these signs are face-lit or halo-lit.	ART Logo signage and dimensional signage at canopies shall be internally lit. Dimensional signage at canopies shall be face-lit.	02/11/22	MM
203	Architectural	EA-301			Please confirm the bay numbers on the north elevation of OMA building will not be illuminated per detail C1/EA-301.	Bay numbers are not internally illuminated.	02/11/22	MM
204	Architectural	PG-A2-101 EA-301			Detail 1/PG-A2-101 shows "PARK" sign at the parking garage entrance & exit, but it has not been indicated on the lighting elevations i.e. C1/EA-301. Is this sign internally illuminated as well per note 15.07?	Correct, internally illuminated.	02/11/22	MM
205	Architectural				Per RFI #61, shower floors are to have premanufactured base pan. Is this to be applied at all shower locations or the single-person shower rooms only (NG shower 324-A & 324-B)? It appears some showers are too big and would require tile shower floors i.e. rooms 208-A, 208-B, 334-A & 334-B. If tiled shower floors are required, please provide detail and/or clarify if tile floor will be mortar bed or thinset. Please clarify how much the slab should be depressed for flooring to slope towards a drain if tiled floors are required.	Response to be coordinated.	02/11/22	MM
206	Architecture			078100	The response to RFI 177 stated, "Use mineral fiber based products. Blaze Shield II will be deleted." However, CAFCo's Blaze Shield II is a mineral fiber based product. Please clarify the response to RFI 177 and confirm CAFCo's Blaze Shield II is an approved product for this project.	Previous response is corrected to require gypsum based products, not mineral fiber. Gypsum durability is desired for this application. Therefore Blaze Shield II is NOT an approved product for this application.	02/11/22	RS
207	Architecture	A2-102, PG-A2-101, PG-A2-102			Per the response to RFI 178, the Parking Garage perforated metal panel types PR-1A and SF-1 are the same as MP-4a Decorative Metal Screen System. Please confirm that the panels to be used for these panel types is Parasoleil's 'Quiet Wood'. If this is not correct, please provide the manufacturer, product type model number, and color for each panel type MP-4a, PR-1A and SF-1 perforated panels.	Correct, Product Pattern is "Quiet Wood"	02/11/22	RS
208	Architecture	A3-301	C4		Detail C4/A3-301 shows the interaction between the curtainwall mullion cap and the brick assembly above. However, there also appears to be an additional trim piece shown. The design intent of the interaction of these exterior systems is not clear. Please clarify.	Element identified as "Mullion Cap Extension with tapered top" is the design intent. Half-tone trim graphic element is removed from detail.	02/11/22	RS
209	Architecture	A4-212	5 & 9		Details 5 & 9 on A4-212 show a piece of trim that runs vertically. There is also a trim piece that runs horizontally. Detail 9 calls for 0.50 GA aluminum trim to match storefront system but it is difficult to tell which trim piece is being indicated. Detail 5 only shows a vertical trim, but it is not called out. Please clarify these details.	Trim removed from Level 1 Details.	02/11/22	RS
210	Architecture	A3-001	12	084313	Detail 12/A3-001 states the BOD for the exterior storefront assembly is Kawneer 601 UT. Spec Section 084313 - Aluminum-Framed Storefronts states the BOD is Kawneer 45IT. Please clarify which Kawneer model is the Basis of Design and confirm the Storefront Wall Assembly Types shown in the legend on A3-001 correspond to the correct BOD.	BOD 451T	02/11/22	RS

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RFI #	Discipline	Sheet	Detail	Spec	Question	Response	Date Submitted	RFI Author
211	Architecture	PG-A3-201	6		Detail 6/PG-A3-201 shows a jog between exterior metal panel systems at level 4. On the overall building elevation, sheet PG-A2-101, this jog occurs where metal panel types MP-1B and MP-2A interact. Please provide a detail of this condition to clarify how these two systems are to interact.	Panels updated to show aligned finish face. Transition detail added.	02/11/22	RS
212	Architecture			075400'	Spec section 07 54 00 and item 3.11.C states "Require site attendance of roofing and insulation material manufacturers daily during installation of the Work.". please confirm this is required.	Requirement changed to monthly.	02/14/22	AHM
213	civil	C5.5	A-A		Please confirm this cross-section should show soldier pile walls on both sides at this location on the plans	Both sides of the wall shall be soldier pile walls on the channel cross sections.	02/14/22	GRH
214	Structural	PG-S1-102, 103, 104			At NE corner by elevator, new note 12 on PG-S1-103 indicating WWF mid depth of topping slab. Is this in lieu of or in addition to rebar shown in PG-S1-102A, 103A, 104A.	The concrete topping and structural concrete slab are separate pours. The wire mesh in the concrete topping is intended to reduce cracking due to temperature and shrinkage.	02/14/22	GRH
215	Architectural	PG-A3-201	6		North wall section 1 at Garage level 4 elevation, there is a job in the exterior wall. Lower section of jog is dimensioned Upper section or jog is not. Please advise.	See response to RFI#211	02/14/22	GRH
216	Architectural/ Structural	A2-101			A2-101 shows control joints shown above ends of openings in brick facade (applies to CMU also). Cannot locate head detail cut through opening- please confirm there is lenth or angle above and provide head details through the various openings. Note that this could push CJ location to end of lenth vs. in line with opening, if not in line with CJ of substrate wall, then building movement could result in cracking.	Lintels are hung from above, see struct. See also 2/A3-002. CJ to remain aligned at opening jamb, per architectural elevations.	02/14/22	GRH
217	Arch/ mech	M6-101			It appears the mechanical equipment will conflict with the ladder location.	Mech equipment to shift south to resolve clearance.	02/14/22	GRH
218	Arch				Please provide detail of how ladder mounts to building, and if it mounts to roof.	Ladder mounts to wall with sealed penetrations, with studs aligned at mounting brackets. Detail added to set.	02/14/22	GRH
219	arch	A5-250	11		Where shaft meets CIP wall, there are two arrows with nothing called out. Assuming this is to indicate alignment. Please confirm.	This symbol means "align", as defined on G1-200 STANDARD ABBREVIATIONS + SYMBOLS	02/14/22	GRH
220	Architectural	A8-201 A8-202			The door schedule on page A8-201 and A8-202 do not specify corresponding STC ratings for the DFH. Please provide additional information on the STC rating of the doors.  RESPONSE: Provide STC 50 with sound control door assembly at door #215.1 AND #215.2 (Training), #203 (Conf), #311 (GM CONF), #323 (CONFERENCE OPS), #325B.1 AND #325B.2 (OPS MANAGER), #337 (QUIET), #341A AND #341B (TRAINING OPS). Spec section added "WOOD SOUND CONTROL ASSEMBLY".  No spec section Labeled "wood sound control assembly" was provided in the most recent spec	Response to be coordinated.	02/15/21	TW
221	Architectural	PG-A1-711 PG-A1-721			Refence RFI #185. PG signage plans call out "wall covering 2'-0" tall zone, extend 10' of ceiling". Is the intent to have the wall covering be 2' high? Is the wall covering required on PG ceiling?	Price full height custom wall graphic (as located on finish/signage plan), and extend 10' offset from wall onto ceiling.	02/15/21	MM
222	Architectural	A1-331, A8-202			Please confirm the extent of the roof pavers is at the vegetated roof garden and occurs between occupied green roof doors 331.1 and 331.2.	Response to be coordinated.	02/15/22	RS
223	Architectural			096623	Reference RFI #187. It appears Master Terrazzo was not added to spec issued in the permit set.	Master Terrazzo is the BOD. Spec defers to the drawings for the BOD. Spec list acceptable manufacturer alternates.	02/15/21	MM
224	Architectural	A1-331, A3-901			Please confirm the hatched areas of the Occupied Green Roof where the roof drains and overflows are located are vegetation free zones where gravel ILO soil is required.	Roof drains and overflow drains are located in a vegetation-free zone, as described by typical detail E4/A3-901. Specific position of drains is proposed to be under paved areas. Provide drain-bridge fabrication to support paver over drain. Fabricate from 3/16" Stainless Steel with horizontal leg 1'-0" long, vertical leg to extent to 1" below height of walking surface, and 2"x2" tube support for paver.	02/15/22	RS

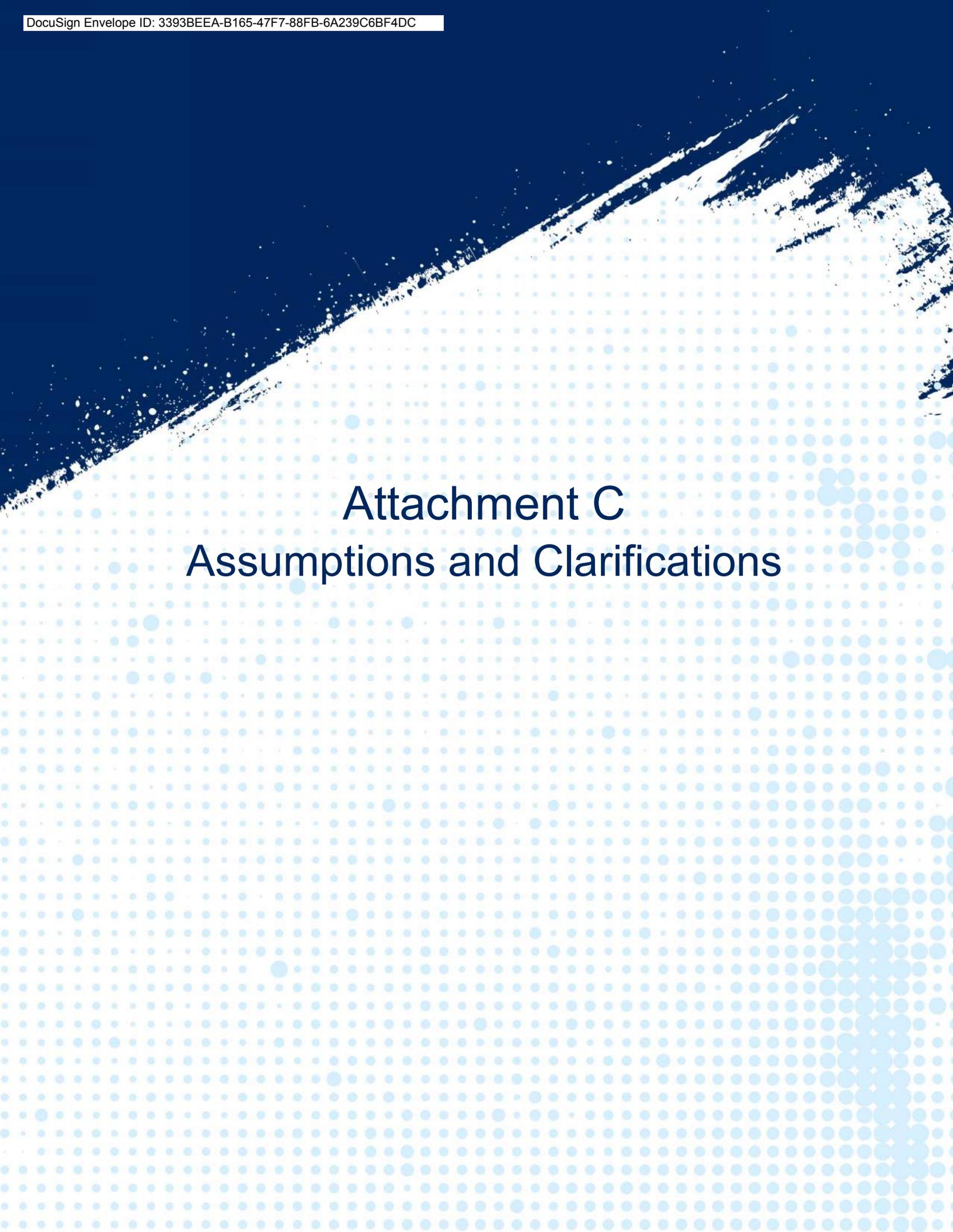
RFIs Above Sent on 02-15-2022



# Attachment B

## List of Allowances





# Attachment C

## Assumptions and Clarifications

# Arlington Transit Operations and Maintenance Facility (AOMF)

## Assumption and Clarifications made in Preparing the GMP

### GMP Assumptions & Clarifications

<b>GENERAL:</b>
1. The proposal is based on these Assumptions and Clarifications. These Assumptions and Clarifications will take precedence over the Submission for GMP documents dated 12.12.2021.
2. This proposal excludes the following items / scope in their entirety:
a. 3rd Party Survey(s), Inspections, Commissioning & Testing. Layout is included for the work of this scope.
b. Design fees or design contingency. Cost for delegated design as specified is included.
c. Design, code compliance and design performance criteria guarantee.
d. Buildings permit costs.
e. Public space permits and deposits.
f. Contaminated or hazardous material to include, but not limited to removal and/or handling of asbestos except for that listed in the proposal for the existing building on parcel B.
g. Overtime premiums associated with inspections required to maintain the construction schedule because of unforeseen conditions that cause a delay.
h. Removal of existing overhead electrical and telecom. If power and telecom are disconnected by the Owner or Utility Company the demolition of the poles within the site will be performed as part of the site demolition.
i. Costs and delays associated with any public utility companies or others impacting the construction schedule.
j. Office related items including fixtures, furniture, and equipment.
3. This proposal assumes the following items will be provided by the Owner at no cost to Turner:
a. Incoming utility services (power, gas, telephone, cable, etc.) including assessments and account fees for temporary or permanent service.
b. Utility setup, including temporary setup, meter, and meter fees.
c. Electronic CAD / REVIT files for use in preparation of coordination or other drawings.
d. Adjacent property agreements/variances/easements (temporary and permanent).
4. This proposal includes the following stipulated rates for direct labor:
a. Skilled Laborer: \$60.03
b. Journeyman Carpenter: \$66.81
5. The Contractor's warranty is limited to a one-year labor and material warranty. All longer-term warranties that may be required by the Contract Documents shall be provided directly by the relevant subcontractor, vendor, or manufacturer directly to Owner and Contractor shall have no responsibility for such extended warranties.
6. This proposal includes the following regarding delegated design: The services to be performed by Turner included in this GMP shall not constitute it as an Architect or an Engineer, nor impose upon it any obligation or liability to assume, render to, or perform on behalf of the Owner, the professional responsibilities, duties, services and activities for which the Owner has contracted with the Architect or Engineer. Turner, in the performance of its duties, does not relieve the Architect or Engineer from any responsibilities for services on the Project contained in the agreement between the Owner and Architect, nor does Turner incur any liability for non-performance of such services by the by the Architect or Engineer. Where the specifications require that Turner provide delegated design, design shop drawings or engineering calculations prepared and sealed by a registered engineer, Turner's design of these elements does not relieve the Architect or Engineer of Record of responsibility for its design of the Project. Turner's liability with respect to these specifications shall be limited to the amount of the proceeds received under the professional liability insurance provided by the professional designer performing the service as Turner may procure and maintain with respect to such services and/or work.
7. Turner is providing On-Site General Liability and Workers Compensation insurance for enrolled parties through Turner's Contractor Controlled Insurance Program (CCIP). The GMP includes a stipulated, non-auditable, rates listed in the GMP Summary.
8. This proposal assumes deductibles for Builders Risk or other Insurance are a reimbursable cost and will be funded out of the contingency.
9. This proposal assumes that where qualified staff are available they may be used in place of 3rd party consultants for work such as scheduling, progress photos, safety, QC, etc.
10. The proposal is a Guaranteed Maximum Price for total project value, not individual line items. During the Subcontractor award and final negotiation there will be adjustments to the individual line item values within the GMP.
10a. County Allowances Phase 1 for Utility Undergrounding, BEB Chargin underground Structure, and Solar Panels at Garage & AOMF are allowances for the complete cost of the work associated with the allowance. General Conditions, General Requirements, Insurance, Bond, and Fee are included within those allowances and not in the stated General Conditions, General Requirements, Insurance, Bond, or Fee within the GMP.
10b. County Allowances Phase 2 for BEB Charging (1st 16 buses), Canopy for the remaining 31 Spaces, and Solar Panels over Canopies are allowances for the complete cost of the work associated with the allowance. General Conditions, General Requirements, Insurance, Bond, and Fee are included within those allowances and not in the stated General Conditions, General Requirements, Insurance, Bond, or Fee within the the GMP.
<b>DIVISION 1</b>
11. This proposal includes Indemnity and contract document precedence per the contract not as listed in section 01 10 00 section 1.7. Assumptions & Clarifications should take precedence over all other contract documents.
12. This proposal does not include security guards at any time during the construction duration of the project, reference 01 35 53. The site will be secured with 6' high chain link fencing.

# Arlington Transit Operations and Maintenance Facility (AOMF)

## Assumption and Clarifications made in Preparing the GMP

### GMP Assumptions & Clarifications

13. This proposal assumes that an exterior mockup will be installed, with a cost not exceeding \$25,000.
14. Interior room mockups are not indicated, reference 01 40 00 3.2 D. The Contractor will install in place mockups as coordinated with the Construction schedule for workmanship.
15. This proposal includes the temporary use during construction of permanent systems including, but not limited to, HVAC, electrical, and elevators. Reference 01 57 21 3.1. All such systems used will still have the specified warranties that begin from the date of substantial completion. Elevators will be protected during the use for construction.
16. This proposal includes survey work performed by a land surveyor registered in the state of Virginia. Field engineering will only be performed by licensed professional engineers if delegated design work is being performed. Reference 01 70 00 1.5.
17. This proposal includes the use of excessively noisy tools, reference 01 70 00 1.6-G. These tools will be used between the hours of 7:00am and
18. This proposal only includes verifying boundary survey established by design team and flagging any discrepancies by the surveyor. This assumes the design team will provide a signed boundary survey or record plat that the approved design was based on.
<b>DIVISION 2</b>
<b>DIVISION 3</b>
19. This proposal excludes undercut of unsuitable soils and replacement of lean concrete, stone or select fill.
20. This proposal includes the abandonment in place of the tower crane footings after use. There will be additional costs to remove if required by the Structural Engineer.
21. There was conflicting information regarding the precast panel thicknesses at the parking garage. This proposal assumes the thickness of the architectural concrete panels will be 6 to 8 inches. Spandrels typically 6" and columns 8".
22. This GMP includes using dissipating curing compound Kurez DR-100 as specified in 03300.2.6.E for all concrete curing. We assume that the designer will verify that any finishes specified are compatible with this dissipating compound.
23. This proposal carries an allowance of \$5 per square foot cost of the thin brick on the architectural precast concrete panels, as the brick isn't specified.
24. This proposal assumes a thin brick selection with lead times no more than 20 weeks.
25. Not Used
<b>DIVISION 4</b>
26. This proposal includes a fence at the dumpster enclosure as no masonry is currently shown.
27. This proposal includes the use of H&B PTA Series Anchors- PTA 422 in lieu of dovetail anchors for top of masonry walls shown in detail 7/S3-102 or PG A8-201 "Top T7," to simplify construction.
28. Not Used
29. This proposal includes Brick 1 as Endicott Dark Ironspot Velour Modular, and Brick 2 as Dark Ironspot Artisan Modular as A2-101 denotes brick types of BR-1A, 1B, 2A, and 2B. This proposal does not include different textures for each type ie (Artisan vs Velour)
30. This proposal includes masonry allowances for the following unspecified materials:
a. \$6.50 per unit for ground face CMU.
b. \$6.00 per unit for split face CMU.
c. \$8.00 per unit for a split face with finished end.
d. \$9.50 per unit with an 8" return L corner unit.
e. \$12.00 for a split face chamfer sill shape.
f. \$12 per bag for colored mortar at the split face and ground face CMU.
31. Two colors will be selected for the two colors of brick. Colors will be selected from manufacturer's standard range.
32. Not Used
33. This proposal does not include UL-stamped masonry. Turner will provide a UL certification letter for the CMU certifying that the typical units meet the UL requirement for one-hour fire rating. It includes complying with the 1-hr fire ratings noted for partition type M1-8, but not UL-U906 assembly noted in the partition schedule (or UL-U905 for 8" block).
<b>DIVISION 5</b>
34. This proposal excludes structural steel support and posts through roofs for solar panels, as it is assumed the solar panels are ballasted on top of the roof system.
35. This proposal includes stair 1 and 2 wood handrail and stainless-steel top rail, which deviates from RFI-074 stating stainless steel handrail, wood top
36. This proposal includes wire brush cleaning of structural that gets prime paint lieu of higher-level finishes noted in spec 051200-2.3 and 099113.2.4 as this is atypical for structural steel.
37. Not Used
38. Not Used
39. Not Used
40. This proposal includes the screen wall vertical posts shown shop welded to the beam flange be bolted connection with a base plate for shipping and erection purposes.

# Arlington Transit Operations and Maintenance Facility (AOMF)

## Assumption and Clarifications made in Preparing the GMP

### GMP Assumptions & Clarifications

41. This proposal assumes providing the members on S1-102 for second floor framing as individual 40' members, not as 140' continuous members. These individual members will connect back to the column via angle brackets and will not be spliced together.
42. This proposal includes the MS-1A panels in the garage that are Stainless Steel woven mesh. These mesh panels are to be set in the storefront framing at locations adjacent to Curtainwall & framed galvanized painted steel frames at locations not within the curtainwall/storefront system.
43. This proposal does not include the tube steel knee wall brace shown in detail A8-101 because none are indicated in the plans.
44. This proposal includes an allowance for modification of the details for the connection of the bracket holding the MP HSS tubes to the building. The supplier has expressed concern with the details as shown in detail A4/PG-A3-202, 6/PG-A3-201, and similar, for concrete installation.
45. This proposal does not include any steel as AESS, as no steel was noted as such in the plans.
46. This proposal assumes the structural drawings take precedence over the architectural drawings in all cases where details on structural drawings and architectural drawings do not coincide. This is assumed based on RFI responses to RFI# 80 & #95.
47. Not Used
48. Not Used

### DIVISION 6

49. The base proposal includes the use of 18 or 20 ga metal backing in lieu of wood. Wood blocking is not continuous around door and window openings (reference 06 10 00 3.3C). The cost to included FRT plywood blocking around the door and window openings is \$26,300. Detail 9/A4-212 with 3 layers 2X wood blocking will be updated during the coordination process.
50. This proposal includes a simplified construction detail for window and door jambs that include membrane jamb flashing with jamb clips at 9/A4-212 in lieu of three rows of wood blocking applied to the CMU.
51. This proposal includes millwork per AWI standards but not an AWI certified installer or manufacturer as confirmed by Stantec. Shop drawings will not have the AWI program label.
52. This proposal includes AWI custom grade in lieu of premium grade.
53. Not Used

### DIVISION 7

54. Due to the application process of the specified hot fluid applied waterproofing and resulting safety and warranty issues we have included providing cold fluid-applied waterproofing.
55. This proposal assumes waterproofing below grade extends vertically to the top of footings only. Waterproofing of the top of footings or the vertical face of the footing is not included.
56. This proposal does not include insulation on the horizontal or vertical surfaces of footings (reference 13/A4-101 typ).
57. This proposal does not include continuous insulation under all slab on grade noted on 1/PG-A3-001 typ, as insulation isn't required in a parking facility.
58. This proposal does not include water testing of under tile waterproofing and Anti Fracture membrane.
59. This proposal assumes that all field metal panels are dry set. Caulked in metal panels at Curtainwall and canopies are included.
60. The proposal assumes all specified façade products pretested and coordinated as to comply with NFPA 285. No UL testing will be performed by the contractor.
61. This proposal assumes that the "liquid applied moisture barrier at top of foundation wall" per details 1/A3-002 and 1/PG-A3-001 are included as part of the below grade waterproofing system.
62. This proposal assumes trees, shrubs, bushes, planters, furniture, wood decking or irrigation at the green roof deck are furnishings provided by Owner. These items can be covered via the \$40k Allowance.
63. This proposal assumes the requirements for decorative metal panel type MP-4A also applies to the Parking Garage metal panel type PR-1A. This proposal further assumes this panel type to be Parasoleil's 'Quiet Wood.' Ref RFI 207. This proposal assumes all SF-1 locations at the parking garage to consist of glass type G2 (1/4" clear tempered monolithic glass) and a custom film with a material allowance of \$18/sf.
64. This proposal provides a qualified roofing foreman in lieu of a manufacturer's representative to QC the daily installation of the roofing system. Manufacturer representative to include site visits as needed in order to warrant the roof system.
65. This proposal includes manufacturer's 1/8" standard edge restraint at green roof, not the 3/16" Perforated Stainless Steel (reference detail E1 on A3-506). The added cost of \$70,835 is the premium to utilize a custom 3/16" perforated soil restraint.
66. This proposal provides only a 20-year System Warranty for the TPO Roof spec 07 54 00 which includes 20 year coverage for replacement of materials showing manufacturing defects in lieu of 30 year.
67. This proposal provides, at screenwall, Morin perforated VB-36 panel with 51% openings in lieu of specified 50% openings. Panels to be fabricated from 040 aluminum, two coat Kynar, custom color on both sides of panel. Trim to be fabricated from flats from metal panel.

### DIVISION 8

68. This proposal assumes onsite testing for Glazed Aluminum Curtainwalls and Aluminum Framed Storefronts are limited to water leakage tests per AAMA 501.2 as specified. Full size mockup testing as noted in 08 44 13 1.6B is not included.
---

# Arlington Transit Operations and Maintenance Facility (AOMF)

## Assumption and Clarifications made in Preparing the GMP

### GMP Assumptions & Clarifications

69. This proposal includes Cookson Door model CESC10 for door 122.2 in lieu of Overhead Door Corp model 650 provided in the response to RFI 29. Cookson model CESC10 includes stainless steel guides, but no integral sill.
70. This proposal includes sectional doors with two rows of insulated glass lites as shown on renderings in the architectural narrative in lieu of 1 row as stated in the specifications.
71. This proposal includes the specified Ruskin louver model ACL645D, but excludes the drainable blades per 089100.2.2.A.3 as this is unavailable in model ACL645D.
72. This proposal includes stain grade red oak veneer for the wooden doors, as the species is not called out on either the plans or the specification. RFI #139 indicated to provide species from Dooge Veneers. The \$12,000 added pricing is included to match the stained poplar wood ceiling.
73. This proposal includes the rated borrowed lites as 6'-0" x 10'-6" as that is the maximum size the manufacturer can produce. These will be used in place of the 6'-0" x 14'-0" called out on the plans.
74. This proposal does not include automatic entrances as none are shown.
75. This proposal includes Curtainwall System Kawneer 1600UT System 1 ILO Kawneer 1600UT System 2 at locations where the sunshade shall attach to the curtainwall system. This is due to System 2 being incompatible with the specified Kawneer Versoleil series sunshade. This will be coordinated during submittals and Kawneer to verify if System 2 can be used at all locations.
<b>DIVISION 9</b>
76. This proposal assumes gypsum board assembly accessories such as acoustic sealant and joint materials manufactured by the gypsum board manufacturer may be used for gypsum board assemblies without the need for a substitution request. Reference 09 21 16 2.3B and E.
77. This proposal only includes painting of the parking garage walls and ceilings at MEP & storage rooms, elevator lobby and stairs. Painting of the main parking facility walls and ceilings is excluded.
78. This proposal assumes parking facility full-height wall covering per RFI 185. TCCO has included an additional allowance to included 10' of wall covering extended onto the ceiling at a material allowance of \$10/sf for 7,000sf of added areas.
79. This proposal does not include wall tile PWT-4 at the shower per RFI #141 as pricing is based on the GMP drawings dated 12.21.2021. This proposal assumes wall tile CWT-1 in showers as indicated on level 3 finish plans, A1-531. In addition to that, this proposal includes \$10,000 allowance for tile discrepancies, such as wall tile in women's & men's RR and locker rooms 208-A & 208-B.
80. This proposal assumes 2" pre-cast terrazzo stair treads on metal stair substructure.
<b>DIVISION 10</b>
81. Not Used
82. Not Used
83. This proposal includes the following toilet accessories which are not listed on the toilet accessory schedule (A6-101) but shown on the restroom enlarged plans: grab bars, shower seats and shower grab bars. This proposal also assumes sanitary napkin disposals in the women restrooms.
84. Not Used
85. This proposal includes a pass thru door for each operable partition per specification 102239 para 2.2G, although it has not been indicated on the floor
<b>DIVISION 11</b>
86. This proposal includes industrial equipment piping as indicated below based on contractor feedback as specifications 221513, 221513.11 and 221519 were not provided:
86 a. CA (Main) included as 1 1/4" - Aluminum based on the previous drawing sizing in order to meet performance requirements of system.
86 b. CA (Branches) included as 3/4" - Aluminum based on the previous drawing sizing in order to meet performance requirements of system
86 c. Not Used
86 d. ATF - 1" - Steel Hydraulic Tubing
86 e. EC - 1" - Copper Type L
86 f. WWF - 1" - Copper Type L
86 g. CG - 1" - Steel Hydraulic Tubing
86 h. PW01 - 3/4" - Stainless Steel
86 i. UC - 1" - Galvanized
86 j. UO - 1" - Galvanized
87. This proposal does not include fluids for initial fill, and fluids for testing, as these are confirmed to be provided by Arlington County.
88. This proposal does not include a fall protection system at the parking garage stair tower and elevator tower as it is not indicated on contract documents and future expansion will void the need.
89. This proposal assumes Wildeck as an acceptable manufacturer for PLO2 straddle parts lift as specification 11 11 29 does not include information for straddle parts lift. The cost to use the Manu from 1/28 spec update is \$30,000.
90. This proposal does not include body harnesses as indicated in specification 112425 for the Maintenance Facility fall protection system, as this is typically provided by the vendors that perform the maintenance.

# Arlington Transit Operations and Maintenance Facility (AOMF)

## Assumption and Clarifications made in Preparing the GMP

### GMP Assumptions & Clarifications

91. This proposal includes the bases of design ice maker manufactured by Follett Sympson Plus, but does not include an energy star rating, which is not offered by Follett Sympson Plus.

#### DIVISION 14

92. This proposal includes an elevator shaft size per the plans and response to RFI 181. In order to comply with plans and RFI 181 the elevator capacity and speed specification requirement will change per:

a. Parking Facility elevator includes 4000lb elevator with 200fpm speed in lieu of 4500lb with 350 fpm

92 b. Elevator #1 is provided as a 4500lb elevator with 350fpm and KONE MonoSpace 500 is BOD

92 c. Elevator 2 is provided as 4000lb with 350 fpm and KONE MonoSpace 500 is BOD

93. This proposal includes side opening doors for elevator 1 & parking garage elevator, elevator 2 is included as center opening as indicated on drawing A5-202 and assuming KONE MonoSpace 500 as BOD.

94. This proposal includes 441 stainless steel in lieu of 304 as indicated in specifications as industry standards have changed.

#### DIVISION 21

95. This proposal does not include a fire pump as it is assumed the site has adequate water pressure available for the fire protection system.

96. This proposal does not include pre-action fire protection in any areas.

97. This proposal includes dry standpipes in each stairwell of the garage only, the garage is not fully sprinkled.

98. This proposal assumes all fire protection at the Operations and Maintenance Building be piping 2 ½" and above to be schedule 10 with rolled grooves and welded outlets and piping 2" and below to be schedule 40 with rolled grooves and welded outlets/threads.

99. This proposal does not include concealed sprinkler covers in custom colors.

#### DIVISION 22 & 23

100. This proposal does not include a booster domestic water pump as it is assumed the site has adequate water pressure available for the domestic water system.

101. This proposal does not include a sewage ejector as it is assumed the sanitary will be drained by gravity.

102. This proposal excludes electrical and mechanical equipment internal seismic requirement, calculations, and certifications as it is assumed equipment internal seismic is not required.

103. This proposal includes an RTU with electric heating as indicated in the mechanical equipment schedules in lieu of a gas heat furnace indicated in the specifications.

104. This proposal includes an ERU with hot water heating as indicated in the mechanical equipment schedules in lieu of a gas heat furnace indicated in the specifications.

105. This proposal includes EC motors at the RTU exhaust fans with integral VFDs in lieu of separate VFDs for these fans.

106. This estimate assumes an independent BAS/BMS system between the garage and the operations and maintenance building, as they are considered stand-alone buildings.

#### DIVISION 26, 27 & 28

107. This proposal does not include electric bus charging equipment nor associated support structure, as this work will be priced in a future

108. This proposal includes primary concrete encased duct banks and excludes conductors for primary feeders and associated energizations as these are assumed to be provided by Dominion.

109. This proposal includes secondary concrete encased duct banks and conductors from utility transformers provided by Dominion to main switchgear equipment located in each building.

110. This proposal includes incoming communications concrete encased duct banks and direct buried conduit as shown on E1-101. The associated handholes and incoming service cabling are assumed to be by the Owner/Utility Provider. Due to inconsistent routing and feeder size shown on DU1.0 Dry Utility Plan versus E1-101 Electrical Site Plan it is assumed the most severe condition is to be included in this proposal.

111. This proposal includes provisions for a roll up generator termination box per E5-101 and does not include the actual roll up generator equipment.

112. This proposal includes conduit, devices, wiring and equipment racks for low voltage systems (tele/data, audiovisual, patch panels and security). It is assumed that network switches, hardware, servers, low voltage UPS's, testing and configuration are provided by the Owner.

113. Not Used

114. This proposal includes an emergency distributed antenna system. It does not include cellular antenna systems nor radio control antenna systems as this requirement is not referenced in the design documents.

115. This proposal excludes Plug Load Control Operation as clarification from the design team is required to identify circuiting.

116. This proposal assumes concrete embedded conduit at the Garage elevated slabs is acceptable.

117. This proposal includes a Fire Alarm System at the AOMF Building per EO-002. The Garage FA system does not include a FACP and FAAP. The Garage FA system is controlled by and interconnected back to the AOMF Building FA system.

# Arlington Transit Operations and Maintenance Facility (AOMF)

## Assumption and Clarifications made in Preparing the GMP

### GMP Assumptions & Clarifications

#### DIVISION 31

118. This proposal includes aggregate piers for building footers, but excludes aggregate piers for slab on grade. Stantec to provide kip loading of each foundation so that aggregate piers bearing pressures can be identified to minimize differential settlement.
119. This proposal includes one way traffic at the box culvert work, without flaggers. It is assumed that traffic control can be designed utilizing one lane of traffic 24 hours per day, and a yield sign at either end, and no temporary traffic signal or flag persons.
120. This proposal excludes any work hour restrictions within the VDOT Right-Of-Way as defined in General Note 2 on C16.0.
121. This proposal excludes General Note 5 on C16.0, as at least one lane on Shirlington Road will always be operational during construction.
122. This proposal does not include drying, liming, or disking of soils.
123. This proposal assumes that existing material on site is suitable for additional fill to be placed upon without improvement. Undercutting due to unsuitable soils below subgrade elevations is excluded and will be compensated on a unit cost basis.
124. This proposal does not include rock excavation. Rock excavation is defined as naturally occurring material that cannot be removed by the excavation equipment on site without the use of additional mechanical means such as hoe rams, grapples, etc.
125. Aggregate piers are noted to be a delegated design, as such it is assumed that specifications will be modified so to identify the performance requirements to be met by the delegated designer.
126. This proposal assumes that the existing UGP line called to be removed on the demolition plans is direct buried and not concrete encased.
127. This proposal includes load testing the load test pier to 200% with the understanding that may move significantly above 150%. The test will be to establish that the modulus of soil and other parameters were selected correctly.

#### DIVISION 32

128. This proposal excludes cost for interior irrigation as required for the indoor planter box shown on level 4 of the garage as Turner was told to exclude the garage planter.
129. For the Permanent Cantilever Retaining Walls, we have included installing the soldier beams on the inside face (not canal face) of the existing retaining walls, prior to demolition of the existing retaining walls. This proposal includes the concrete face of the soldier pile wall as shotcrete with plain
130. This proposal includes 18" high Fire Lane signs. Sheet C13.1 states Fire Lane Signs to have "Dimensions (12) inches wide by Fifteen (18) inches High". If 15" High signs are required, the signs will need to be custom made and there will be an added cost.
131. This proposal includes full depth pavement patching detail of 2" SM-12.5, 8" VDOT-21B, 6"BM-25 at areas where Utilities will be removed and replaced along Shirlington Road.
132. This proposal includes seed at all lawn areas and only includes sod at Tree Pit areas.

#### DIVISION 33

133. This proposal does not include off-site drainage channel work along the southeast side of Parcel B.
134. This proposal assumes the gas service up to the gas meter is assumed to be by the Utility Company (Washington Gas).
135. This proposal assumes that the South (downstream) double box culvert will be installed first including the relocation of Waterline D as shown on C8.1. The relocation of Waterline D will require a shutdown.
136. This proposal includes no trench drains located outside of either the Parking Garage or Maintenance Facility as there were no locations or details provided.
137. This proposal includes (2) 12" temporary storm pump arounds to pump and discharge water downstream during the Box Culvert work as well as the concrete channel work. The temporary pump around system will also include (1) 6" DBA primary pump to pump normal flow applications. All Pumps will include level transducers which will control the pumps engine speed to match the incoming flow.
138. This proposal includes Sanitary Manhole F as new in accordance with RFI #196. This manhole had been shown to be existing on C7.0 in the GMP Documents.



Attachment D: The Guarantee Maximum Price

# Arlington Transit Operations and Maintenance Facility (AOMF)

March 3, 2022

Revised April 19, 2022

Revised April 22, 2022

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GMP Summary

**SECTION 2**

Bid Recording Sheets



**SECTION 1**  
GMP Summary

## Arlington Transit Operations and Maintenance Facility (AOMF)



March 2, 2022 - UPDATED APRIL 22, 2022

PACKAGE	Sub Name	Raw Bid	Build-up	TOTAL
<b>DIVISION 01</b>				
General Requirements Allowance		\$2,835,217	\$0	\$ 2,835,217
Survey and Layout Data	Gordon	\$148,060	\$20,000	\$ 168,060
<b>DIVISION 02</b>				
Selective Demolition & Abatement	Celtic Demolition	\$71,000	\$5,000	\$ 76,000
<b>DIVISION 03</b>				
Cast-in-Place Concrete	Miller and Long	\$4,487,000	\$116,500	\$ 4,603,500
Precast Architectural Concrete	American Stone	\$1,304,700	\$950	\$ 1,305,650
<b>DIVISION 04</b>				
Masonry	Genco Masonry	\$1,010,500	\$82,250	\$ 1,092,750
<b>DIVISION 05</b>				
Structural Steel Framing	Crystal Steel Fab	\$2,082,100	\$130,000	\$ 2,212,100
Metal Fabrications	Crystal Steel Fab	\$3,227,241	\$134,900	\$ 3,362,141
<b>DIVISION 06</b>				
Millwork	Fairfax Woodworking	\$209,910	\$10,000	\$ 219,910
<b>DIVISION 07</b>				
Dampproofing and Waterproofing	Seal Caulking & Waterproofing	\$281,937	\$9,200	\$ 291,137
Air Barriers	Cameron Building Envelope	\$110,370	\$16,000	\$ 126,370
Metal Wall Panels	Miller Clapperton	\$1,898,000	\$65,903	\$ 1,963,903
Membrane Roofing	Prospect Waterproofing	\$906,074	\$49,418	\$ 955,492
Applied Fireproofing	WW Nash Construction	\$202,000	\$69,000	\$ 271,000
Joint Sealants	Seal Caulking & Waterproofing	\$99,515	\$5,500	\$ 105,015
<b>DIVISION 08</b>				
Doors and Frames	DFH Commercial	\$439,100	\$15,000	\$ 454,100
Coiling Doors and Grilles	CH Hodges & Son	\$268,898	\$0	\$ 268,898
Unit Skylights	CBG South	\$16,045	\$560	\$ 16,605
Glazing	Galaxy Glass & Aluminum	\$1,404,920	\$90,158	\$ 1,495,078
Louvers	H & B Engineered	\$18,015	\$8,077	\$ 26,092
<b>DIVISION 09</b>				
Gypsum Board	Azteca Contractors	\$1,445,400	\$82,900	\$ 1,528,300
Tiling	Source One	\$118,000	\$14,243	\$ 132,243
Flooring	Source One	\$125,283	\$49,350	\$ 174,633
Terrazzo Flooring	Roman Mosaic	\$260,150	\$10,500	\$ 270,650
Painting	Sparkle Painting	\$279,500	\$126,950	\$ 406,450
<b>DIVISION 10</b>				
Signage	Gelberg Signs	\$38,434	\$113,035	\$ 151,469
Toilet Compartments, Toilet Accessories, FEs & Lockers	MD Partitions	\$122,010	-\$1,554	\$ 120,456
Operable Partitions	Modern Door	\$52,109	\$3,000	\$ 55,109
Wall and Door Protection	APEM	\$26,867	\$0	\$ 26,867
Storage Assemblies	B&R Associates	\$100,983	\$15,000	\$ 115,983
<b>DIVISION 11</b>				
Vehicle Service Equipment	B&R Associates	\$1,446,248	\$0	\$ 1,446,248
Facility Fall Protection	Summit Anchor	\$19,189	\$6,750	\$ 25,939
Foodservice Equipment	Alto Hartley	\$49,906	\$0	\$ 49,906
Athletic Equipment	Turner Estimate Allowance	\$100,000	\$0	\$ 100,000
<b>DIVISION 12</b>				
Window Shades	EN2 Shade	\$51,990	\$80	\$ 52,070
<b>DIVISION 14</b>				
Electric Traction Elevators	Kone	\$480,000	\$72,000	\$ 552,000
Vehicle Lifts	Alan Tye Associates	\$625,364	\$25,000	\$ 650,364
<b>DIVISION 21</b>				
Fire Suppression	Reliance Fire Protection	\$316,500	\$17,500	\$ 334,000
<b>DIVISION 22</b>				
Plumbing	Warner Mechanical	\$1,383,400	\$35,000	\$ 1,418,400

# Arlington Transit Operations and Maintenance Facility (AOMF)



March 2, 2022 - UPDATED APRIL 22, 2022

PACKAGE	Sub Name	Raw Bid	Build-up	TOTAL
<b>DIVISION 23</b>				
Heating, Ventilating, and Air-Conditioning (HVAC)	Warner Mechanical	\$3,006,090	\$125,000	\$ 3,131,090
HVAC Equipment	Sourceblue	\$683,473	\$0	\$ 683,473
<b>DIVISION 26</b>				
Electrical	IB Abel	\$4,919,955	\$89,177	\$ 5,009,132
Electrical Equipment	Sourceblue	\$866,466	\$50,000	\$ 916,466
<b>DIVISION 31</b>				
Earthwork	Strittmatter	\$1,064,000	\$120,500	\$ 1,184,500
Aggregate Piers Foundation Systems	Keller	\$158,000	\$60,000	\$ 218,000
<b>DIVISION 32</b>				
Asphalt Paving	Fort Myer	\$147,800	\$34,371	\$ 182,171
Fences and Gates	Hercules	\$426,750	\$0	\$ 426,750
Concrete Paving	Fort Myer	\$1,336,973	\$21,500	\$ 1,358,473
Gravity Retaining Walls	Structures Hardscape Specialists	\$346,251	\$43,027	\$ 389,278
Permanent Cantilever Retaining Wall	Berkel & Co	\$1,161,000	\$20,000	\$ 1,181,000
Planting	Chapel Valley	\$49,133	\$66,231	\$ 115,364
<b>DIVISION 33</b>				
Water Utilities	Hopke	\$1,608,298	\$287,614	\$ 1,895,912
Storm Pump Around	United Rentals	\$150,014	\$104,100	\$ 254,114
<b>DIVISION 41</b>				
Bridge Crane	Kone Cranes	\$66,455	\$0	\$ 66,455
<b>Subcontractor GL and Workers Comp (1%)</b>				
				\$388,655
<b>Subcontractor Default Insurance (1.23%)</b>				
				\$ 536,736
		<b>\$44,052,593</b>	<b>\$2,419,690</b>	<b>\$47,397,674</b>
GC P and P Bond	0.760%			\$415,618
General Conditions				\$2,437,953
Preconstruction				w/Fee
Permits / Fees / LEED				\$0
GENERAL LIABILITY (Turner Only)	0.900%			\$492,180
BUILDERS RISK	0.200%			\$109,373
Construction Contingency Allowance	2.750%			\$1,225,468
Estimating Contingency	0.000%			\$0
Gross Receipts Tax (VA Only)	0.160%			\$87,499
Allowance for GMP Documents to IFC Document Reconciliation				\$250,000
Allowance for A&C Comment Additions				\$209,135
<b>COST OF WORK</b>				<b>\$52,624,899</b>
FEE	2.60%			\$1,421,852
<b>COST OF ESCLATION</b>				<b>\$639,869</b>
Allowance for Escalation from GMP Pricing to NTP June 1, 2022	1.35%			\$639,869
<b>TOTAL VOLUME</b>				<b>\$54,686,620</b>
<b>COUNTY ALLOWANCES (County allowances include Insurance, Fee (2.6%), and GC/GR costs for Turner which are not included above)</b>				
<b>PHASE 1</b>				
Utility undergrounding				\$2,956,736
BEB Charging underground structure				\$900,000
Solar panels- Garage & AOMF				\$1,748,817
				Total \$60,292,173

**SECTION 2**

**Bid Recording  
Sheets**

**General Requirements Detail****ART AOMF Facility**

23-Feb-22

**24 mo Construction Duration**

		QTY	UNIT	Unit Cost	TOTAL	Category	Genl Reqs 65XXX
							2
<b>XX100 TEMPORARY FACILITIES</b>							
<b>XX110 Tools &amp; Supplies</b>							
Misc Tools and Supplies		24	months	1,200	28,800	GR	28,800
<b>XX122 - Job Office Setup / Removal/ Alteration</b>							
Tool Shed for Labor		24	months	500	12,000	GR	12,000
Changing Facility for Labor		24	months	1,100	26,400	GR	26,400
<b>XX130 - Plant Rentals &amp; Equipment</b>							
Miscellaneous Rental Equipment (forklift in lieu of hoist)		14	months	6,500	91,000	GR	91,000
Miscellaneous Rental Equipment (sweeper)		6	months	1,800	10,800	GR	10,800
<b>XX140 - Temporary Buildings</b>							
Safety Pavilion / Break Area		1	LS	15,000	15,000	GR	15,000
<b>XX180 - Temp Stairs &amp; Ladders</b>							
Main Building - Temp Alum Stairs		6	risers	5,000	30,000	GR	30,000
<b>XX200 HOIST FACILITIES</b>							
<b>XX200 Material / Personnel Hoist Rental / Maintenance</b>							
Gate installation, opening prep (Fortlift Pen)		3	ea	3,000	9,000	GR	9,000
<b>XX210 - Hoist Operation</b>							
Operate Material Hoist (forklift)	Skilled Laborer	1,408	hr	\$60.03	84,522	GR	84,522
Operate Material Hoist - overtime	Skilled Laborer	141	hr	\$74.22	10,450	GR	10,450
<b>XX240 - Temp Elevator Install / Maintain / Operate</b>							
Temporary Entrances Protection	Carpenter	40	hr	\$66.81	2,672	GR	2,672
Cab Protection	Carpenter	120	hr	\$66.81	8,017	GR	8,017
Operate Temp Elevators	Skilled Laborer	1,038	hr	\$60.03	62,311	GR	62,311
Overtime operation	Skilled Laborer	104	hr	\$74.22	7,704	GR	7,704
<b>XX260 - Crane Rental / Maintenance / Operation</b>							
<b>XX310 Temp Pwr &amp; Light Install / Remove / Maintain / Use</b>							
Elect Current Charges		2,880,000	SF-MO	\$0	100,800	GR	100,800
Project GHG Metering (equip, installation, software, etc)		1	ls	15,000	15,000	GR	15,000
<b>XX320 Temp Toilets &amp; Plumb Install / Remove / Maintain / Use</b>							
Rental Toilets (1 toilet mo. Per 25 men)	10 Toilets	24	Months	2,080	49,920	GR	49,920
<b>Hand Washing Stations</b>							
		24	Months	940	22,560	GR	22,560
<b>XX400 CLEANING</b>							
<b>XX400 General Building / Glass Cleaning</b>							
Cleaning Labor Supervision - Laborer Foreman	Skilled Laborer - Fc	4,152	hr	\$60.03	249,245	GR	249,245
Cleaning Labor	Skilled Laborer	5,535	hr	\$58.28	322,580	GR	322,580
Cleaning material (brooms, carts etc.)		24	mo	500	12,000	GR	12,000
<b>XX410 Dirt Chutes / Rubbish Removal / Recycling</b>							
Trash Cart - Consumable		10	ea	500	5,000	GR	5,000
Trash Hopper - Consumable		1	ea	5,000	5,000	GR	5,000
Rubbish Removal		220	ea	500	110,000	GR	110,000
<b>XX430 Site &amp; Street Cleaning</b>							
<b>XX490 Final Cleaning</b>							
Final Cleaning - OMA		47,000	sf	0.45	21,150	GR	21,150
Final Cleaning - Garage		66,000	sf	0.25	16,500	GR	16,500
<b>XX500 General Protection &amp; Safety</b>							
Prot & safety labor (Carpenter)	Carpenter - Journe	1,038	hr	\$66.81	69,349	GR	69,349
<b>XX520 Sidewalk Bridges / Fences</b>							
Yodoks - Bridge Entrance		24	ea	500	12,000	GR	12,000
Sandbag Diversion downstream of Culvert - Labor	Skilled Laborer	448	hr	\$58.28	26,109	GR	26,109
Sandbag Diversion downstream of Culvert - Material		1,120	ea	\$17.00	19,040	GR	19,040
<b>XX550 Fire Watch / Rodent Control / Fire Extinguishers</b>							
Fire Extinguishers		40	ea	150	6,000	GR	6,000
Fire Extinguisher Recharge		40	ea	40	1,600	GR	1,600
<b>XX590 First Aid Facility</b>							
Jobsite First Aid		24	months	500	12,000	GR	12,000
<b>XX660 Progress Photos / Arial Photography</b>							
Job Progress Photos		25	mo	2,000	50,000	GR	50,000
Web Camera Monthly		24	mo	550	13,200	GR	13,200
Webcam and install		1	ea	7,200	7,200	GR	7,200
<b>XX670 Misc General Expense</b>							
Job Signs		6	ea	1,500	9,000	GR	9,000
Directional Signs		10	ea	500	5,000	GR	5,000
<b>XX688 Safety Events</b>							
Safety Recognition - 5 Worker Lunches		24	months	100	2,400	GR	2,400
Safety Recognition - Topping Out		1	ls	5,000	5,000	GR	5,000
<b>XX700 Field Engineering / Line &amp; Grade</b>							
Field Engineering	Level 1				210,901	GR	210,901
<b>XX710 Quality Control</b>							
Quality Control Specialist	Level 1				277,713	GR	277,713
<b>XX720 MEPS</b>							
MEP QC General Req	Level 2				154,041	GR	154,041
QC Specialty	Level 4				360,895	GR	360,895
<b>XX730 Project Support Staff</b>							

**General Requirements Detail**

**ART AOMF Facility**

23-Feb-22

**24 mo** Construction Duration

		QTY	UNIT	Unit Cost	TOTAL	Category	Genl Reqs 65XXX
Quality Control Coordination	Tom Bolka				25,791	GR	25,791
Schedule Coordination	Ken Lenta				26,295	GR	26,295
<b>XX780 Safety</b>							
Safety Specialist on Site	Safety L2				159,251	GR	159,251
<b>XX901 Consultant 1 - Scheduling</b>							
CPM Schedule setup		1	ea	15,000	15,000	GR	15,000
Updates		26	months	1,500	39,000	GR	39,000
<b>Total General Requirements:</b>					<b>2,835,217</b>		<b>2,835,217</b>



### 01 Surveying

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **02/18/22 9am**  
 AP1 Date **02/28/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Abdullah Malik, ahmalik@tcco.com, 571-373-2798

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

<b>Gordon</b>	G	<b>AUL Tec</b>	AUL
Jason Redding 703-889-2347 <a href="mailto:jredding@gordon.us.com">jredding@gordon.us.com</a>		Jimmy Veli, 301-569-3473 <a href="mailto:jveli@aultecinc.com">jveli@aultecinc.com</a>	
02/18/22		02/18/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 148,060		\$ 189,345	
\$ 20,000 13.5%		\$ 20,000 10.6%	
<b>\$ 168,060</b>		<b>\$ 209,345 25%</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>												
	1	Turner Construction Company's Environmental Health and Safety Program	y		y							
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y							
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y							
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n							
	5	Breakout Cost for Full Time Safety Manager	y		n							
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y							
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y							
<b>Bid Acknowledgements</b>												
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y									
<b>Contract Attachments</b>												
	2	AP-1 Statement of Work dated 1/12/2022	y		y							
	3	AP-2 Documents List dated 10/22/2021	y		y							
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y							
	5	AP-4 Logistics Plan dated 12/22/2021	y		y							
	6	AP-5 BIM Requirements	y		n							
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y							
	8	AP-7 Equipment Coordination Matrix dated - 1/25/2022	y		y							
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y							
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y							
	11	Bid valid for 90 days	y		y							
	12	Retainage: 5%	y		y							
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y		n							
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y							
<b>Key Quantities and Breakouts (Populate Below)</b>												
	1	Total Manhours	#									
	2	Peak # of Workers anticipated	#									
	4		#									
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>												
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	Company						
	2	Where do the materials come from?	?		?	USA						
	3	What is lead time for materials?	?		?	N/A						
	4	Identify Major Subcontractors	?		?	None						
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?		?	0%						
<b>Prequalification</b>												
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?	Yes						
	2	Turner Prequalification Number:	?									
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?	Yes						
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?		?	Yes						
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?	EMR _____								
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	_____ %		N/A						



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	7	Include Payment and Performance Bond	n		n							
<b>AP-1 Statement of Work</b>						<b>Gordon</b>		<b>B1</b>		<b>AUL Tec</b>		<b>B1</b>
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF						0				0		
01 Surveying						-				-		
02/28/22				y/n	Sub							
<b>A. General</b>												
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y						
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 01 Surveying scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y						
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y						
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y						
<b>B. Documents</b>												
		The Work shall consist of 01 Surveying Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:										
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y						
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y						
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y						
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y						
	5	RFI Log dated - TBD	y			y						
	6	Specifications	y			y						
		- Division 00 - Procurement and Contracting Requirements (Complete)	y			y						
		- Division 01 - General Requirements (Complete)	y			y						
<b>C. Inclusions</b>												
<b>STANDARD REQUIREMENTS</b>												
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			n		N/A				
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y						
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			n		N/A				
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			n		N/A				
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			n		N/A				
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			n		N/A				
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y			n		N/A				
	8	All work performed shall be per governing codes	y			y						
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y			y						
	10	Include field measurement as required prior to fabrications	y			n		N/A				
<b>SPECIFIC SCOPE ITEMS</b>												
	11	Any component of work requiring a surveyor registered in the jurisdiction of the project shall be performed by a Virginia-licensed surveyor.	y			y				y		
	12	Provide confirmation of all existing site Controls and Benchmarks.	y			y				y		
	13	All travel expenses, engineering, design, reproduction, postage and other related expenses required to perform the work of this agreement are included.	y			n		N/A		y		
	14	Provide cutsheets with-in 24 hours of stakeout	y			y				y		
	15	Include multiple mobilizations to accomplish this work. Identify how many are included and cost of additional.	y			y				y		
	16	Provide as built documentation for sitework including utilities as required by Arlington County, VDOT, etc.	y			y				y		
	17	Provide wall check.	y			y				y		
	18	Coordinate flagging and paint color scheme with project superintendent	y			y				y		
	19	Provide staff/crew rates for restake	y			y				y		



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	20	Provide layout for limits of disturbance, and sediment and erosion control measures.	y			y				y			
	21	Provide bench marks for use by the excavation contractor for grading operations. Grade stakes are not required.	y			y				y			
	22	Provide layout for limits of disturbance, and sediment and erosion control measures.	y			y				y			
	23	Provide layout of foundations plus any directional changes for new site retaining walls	y			y				y			
	24	Prior to excavation activities commencing, record baseline readings to establishing initial positions of the structures.	y			y				y			
	25	Provide offsets for curb and gutter, sidewalks, asphalt paving and other site features including site lighting.	y			y				y			
	26	Provide bench marks for use by the excavation contractor for grading operation.	y			y				y			
	27	Provide stakeout for all utilities including offsets for structures and cut sheets.	y			y				y			
	28	Set final property corners (Only verifying and flagging discrepancies)	y			y				y			
	29	Provide Layout of Deep foundations, Building Foundations, Interior building control lines (4 lines on each floor and roof)	y			y				y			
	30	Provide Elevation benchmark at each floor & roof	y			y				y			
	31	Provide 3' off-set of slab edge at each floor and roof(s) after concrete	y			y				y			
	32	Provide staking of aggregate piers, coordinate with installing contractor. Assume whisker pins at Center point of piles. Assume multiple visits for staking.	y			y				y			
	33	Provide monitoring of soldier beam wall during the construction process	y			n		\$20,000	Turner	n		\$20,000	Turner
<b>D. Exclusions</b>													
	1												
	2												
<b>E. Special Trade Requirements</b>													
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%									
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y										
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y										
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y										
	b	Office Policy [ Or Project Specific)	y										
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y										
<b>F. Schedule</b>													
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.											
	1	Review and comply with Turner Schedule (AP-6)	y										
	2	Duration for submittals and shop drawings, in working days	?										
	3	Duration for fabrication and delivery, in working days	?										
	4	Installation duration, in working days	?										
<b>G. Alternates</b>													
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.											
	1	100% Payment & Performance Bonds on Turner Forms	y										
	2	Provide add alternate for onsite WC and GL insurance	y										
<b>H. Unit Prices</b>													
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.											
	1												

## 02 Select Demo

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Demolition Services	DSI	Celtic Demolition	CD	Aceco	A
Chris Zylonis 540-419-4080 540-825-4321 <a href="mailto:czylonis@demoservicesinc.com">czylonis@demoservicesinc.com</a>		Ross Tumulty 703-739-9103 202-437-3517 <a href="mailto:ross@celticdemo.com">ross@celticdemo.com</a>		Hayes Merkert 301-588-0707 202-308-8327 <a href="mailto:hmerkert@acecoworld.com">hmerkert@acecoworld.com</a>	
01/27/22		01/28/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 59,383		\$ 71,000		\$ 75,000	
\$ 19,500 32.8%		\$ 5,000 7.0%		\$ 20,450 27.3%	
<b>\$ 78,883 4%</b>		<b>\$ 76,000</b>		<b>\$ 95,450 26%</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
<b>Turner Construction Company's Environmental Health and Safety Program</b>																	
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y								
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y								
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y								
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n		\$10,000	Turner	y								
	5	Breakout Cost for Full Time Safety Manager	y		y				y								
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y								
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y								
<b>Bid Acknowledgements</b>																	
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y								
<b>Contract Attachments</b>																	
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y								
	3	AP-2 Documents List dated 10/22/2021	y		y				y								
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y								
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y								
	6	AP-5 BIM Requirements	y		y				y								
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y								
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y								
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y								
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y								
	11	Bid valid for 90 days	y		y				y								
	12	Retainage: 5%	y		y				y								
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y								
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y								
<b>Key Quantities and Breakouts (Populate Below)</b>																	
	1	Total Manhours	#														
	2	Peak # of Workers anticipated	#														
	3	Provide breakout of escalation costs	#														
	4	Concrete Building Foundation (sf)	#														
	5	2 Story Brick Building (sf)	#														
	6		#														
	7		#														
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																	
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?														
	2	Where do the materials come from?	?														
	3	What is lead time for materials?	?														
	4	Identify Major Subcontractors	?														

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?													
<b>Prequalification</b>																
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?													
	2	Turner Prequalification Number:	?													
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?													
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?													
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?													
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____												
	7	Include Payment and Performance Bond	n	_____%		[2.5%]										
<b>AP-1 Statement of Work</b>																
<b>Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF</b>							<b>Demolition Services</b>	<b>B1</b>	<b>Celtic Demolition</b>	<b>B1</b>	<b>Aceco</b>	<b>B1</b>				
<b>02 Select Demo</b>							0		0		0					
01/12/22							-		-		-					
<b>A. General</b>			y/n	Sub												
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y				y							
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 02 Select Demo scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		y				y							
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		y				y							
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y				y							
<b>B. Documents</b>																
		The Work shall consist of 02 Select Demo Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:														
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y				y							
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y				y							
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y				y							
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y				y							
	5	RFI Log dated - TBD	y		y				y							
	6	Specifications	y		y				y							
	7	Division 00 - Procurement and Contracting Requirements (Complete)	y		y				y							
	8	Division 01 - General Requirements (Complete)	y		y				y							
	9	024113 - Selective Site Demolition (Complete)	y		y				y							
	10	Asbestos Survey Report by Terracon (Complete)	y		y				y							
<b>C. Inclusions</b>																
<b>STANDARD REQUIREMENTS</b>																
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y				y							
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y				y							
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y				y							
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y				y							
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y				y							
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y				y							
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		y				y							
	8	All work performed shall be per governing codes	y		y				y							

A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y			y				y							
	10	Include field measurement as required prior to fabrications	y			y				y							
	11	<b>SPECIFIC SCOPE ITEMS</b>								<b>y</b>							
	12	Provide demolition and removal complete of all building systems as shown on the contract documents, including the following:	y			y				y							
	13	Concrete Building Foundation (Breakout Price) (located at parcel A)	y			y				y				y			
	14	2 Story Brick Building	y			y				y				y			
	15	1 Story Frame Building and Roof Overhang attached to 2- Story Brick Building	y			y				y				y			
	16	All work should be performed per governing codes. Comply with FCC noise ordinances. No work including start up of equipment will be permitted until the FCC designated start time.	y			y				y				y			
	17	Provide removal of hazardous materials per Asbestos survey Report by Terracon (Breakout Price)	y			y				y				<b>n</b>		<b>\$10,950</b>	<b>DSI</b>
	18	Haul all building debris offsite.	y			y				y				y			
	19	Provide removal of all FF&E items located within the building	y			y				y				y			
	20	Provide removal of all building foundations within the building footprint	v			v				v				v			
	21	Provide all submittals per spec 024114 -1.5	v			v				v				v			
	22	<b>Salvage materials per spec 024113-1.4, including existing signage.</b>	v			<b>n</b>		<b>\$4,500</b>	<b>DSI</b>	v				<b>\$4,500</b>		<b>DSI</b>	
	23	Field locate all existing underground utilities in the area of work, call misc utility prior to the start of demolition	y			y				y				y			
	24	<b>Covid Vaccine or Testing per Arlington County Code</b>	v			v				v				v			
	25	<b>Include 3rd Party Industrial Hygienist for testing required</b>	v			<b>n</b>		<b>\$5,000</b>	<b>Turner</b>	<b>n</b>		<b>\$5,000</b>	<b>Turner</b>	<b>n</b>		<b>\$5,000</b>	<b>Turner</b>
	<b>D.</b>	<b>Exclusions</b>															
	1	Demo of 1 story Metal Building to be removed by owner per C 1.2	n			n				n				n			
	2	Site demo including removal of asphalt, concrete, light poles, Paint lines, fencing, trees, concrete walls, utilities, etc is w/Earthwork	n			n				n				n			
	3	Cut/Cap/Make safe of Mechanical Systems w/Mechanical	n			n				n				n			
	4	Cut/Cap/Make safe of Fire Protection Systems w/Fire Protection	n			n				n				n			
	5	Cut/Cap/Make safe of Electrical Systems w/Electrical	n			n				n				n			
	6	Removal and Haul off of underground utilities w/Earthwork	n			n				n				n			
	7	Backfill to grade w/Earthwork	n			n				n				n			
	8	Haul off of spoils generated from Mechanical, Electrical, and Wet Utilities trades are w/ Earthwork	n			n				n				n			
	<b>E.</b>	<b>Special Trade Requirements</b>															
	1	% <b>UBE - Underutilized Business Enterprise</b> (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#			___%											
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y			y								y			
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y			y								y			
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y			y								y			
	b	Office Policy [ Or Project Specific)	y			y								y			
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y			y								y			
	4	Includes escalation of labor and material costs	y			y											
	<b>F.</b>	<b>Schedule</b>															
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.															
	1	Review and comply with Turner Schedule (AP-6)	y			y								y			
	2	Duration for submittals and shop drawings, in working days	?														
	3	Duration for fabrication and delivery, in working days	?														
	4	Installation duration, in working days	?														
	<b>G.</b>	<b>Alternates</b>															
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.															
	1	100% Payment & Performance Bonds on Turner Forms	y			v								v			
	2	Provide add alternate for onsite WC and GL insurance	y			v								v			
	3																
	<b>H.</b>	<b>Unit Prices</b>															

A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.															
	1																
	2																
	3																



### 03 Arch Precast

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **03/01/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Rachael Sampson, 703-841-7005, rsampson@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

American Stone	AS	Arban & Carosi	AC	High Concrete Group	HC
Nick Beck 804-448-9460 703-929-2059 <a href="mailto:nbeck@asiprecast.com">nbeck@asiprecast.com</a>		Allison Zebrowski 703-490-9451 <a href="mailto:allie@arbancarosi.com">allie@arbancarosi.com</a>		Eric Rowits 717-538-9429	
01/31/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 1,304,700		\$ 1,390,000		\$ 1,865,000	
\$ 950 0.1%		\$ 12,800 0.9%		\$ (203,336) -10.9%	
<b>\$ 1,305,650</b>		<b>\$ 1,402,800</b> 7%		<b>\$ 1,661,664</b> 27%	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y				y				n/a			
	5	<b>Breakout Cost for Full Time Safety Manager</b>	y		y				n/a					add		
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y			
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y			
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
	6	AP-5 BIM Requirements	y		y				y				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				n	30 days min			y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances	y		y				y				n		(\$780)	HC
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
	11	Bid valid for 90 days	y		y				y				y			
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion and <b>\$712.00 /day</b> for each calendar day beyond Final Project Completion	y		y				n				n			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#			planned for 18 days with tower crane										
	2	Peak # of Workers anticipated	#											10		
	3	Provide breakout of escalation costs	#													
	4		#													
	5	Precast Concrete Panel - Type 1	sf			10,400 sf for type 1 and 2				21,909				6,068		
	6	Precast Concrete Panel w. Formliner - Type 2	sf											3,200		
	7	Thin Brick Precast Concrete Panel - Type 3	sf			10,600								9,603		
	8															
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?			subcontract erector				erection sub - open shop				subcontracted		
	2	Where do the materials come from?	?											Denver, PA		
	3	What is lead time for materials?	?			12-16 weeks (brick) + 12-14 weeks (cast)				20 wks				13-14 months		
	4	Identify Major Subcontractors	?											Erector		
	5	Provide ___ % UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?							see proposal						



Prequalification																	
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?									on file						
2	Turner Prequalification Number:	?															
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?															
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?															
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	1.04						0.826						
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?		?	1.50%						0.75%						
7	Include Payment and Performance Bond	n	_____%														
AP-1 Statement of Work				American Stone				B1		Arban & Carosi		B1		High Concrete Group		B1	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0				0		0		0					
03 Arch Precast				-				-		-		-					
03/01/22				y/n				Sub									
A. General																	
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y				y				y				
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 03 Arch Precast scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y				y				y			w/ clarifications	
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y				y				y			w/ clarifications	
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y				y				y				
B. Documents																	
	The Work shall consist of 03 Arch Precast Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y				y				y				
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y				y				y				
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y				y				y				
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y				y				y				
5	RFI Log dated - TBD	y			y				y				y				
6	Specifications	y			y				y				y				
	- Division 00 - Procurement and Contracting Requirements (Complete)	y			y				y				y				
	- Division 01 - General Requirements (Complete)	y			y				y				y				
	- 033000 - Cast-In-Place Concrete (as it applies to this scope)	y			y				y				y				
	- 034500 - Precast Architectural Concrete	y			y				y				y				
	- 051200 - Structural Steel (as it applies to this scope)	y			y				y				y				
	- 055000 - Miscellaneous Metals (as it applies to this scope)	y			y				y							n/a	
	- 074264 - Metal Composite Material Wall Panels (as it applies to this scope)	y			y				y							n/a	
	- 079200 - Joint Sealants (as it applies to this scope)	y			y				y				n			ok	
	- 000000 - Specification	y			y				y								
C. Inclusions																	
STANDARD REQUIREMENTS																	
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			y				y				y				
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y				y				y			dumpsters by others	
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			y				y				y				
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			y				y				y				
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			y				y				y				
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			y				n				y			per bid dwgs	



7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		y		y			y						
8	All work performed shall be per governing codes	y		y		y			y						
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y		n	layout by others		y			not PE sealed			
10	Include field measurement as required prior to fabrications	y		y		n			n			CM provide			
<b>SPECIFIC SCOPE ITEMS</b>															
<b>Preconstruction</b>															
11	Advise the Project Team of material availability and long lead material and equipment items if they differ from the schedule below. Continuous review and evaluation of the design documents for constructability, operability, cost (budget) considerations, and recommendations to improve, optimize constructability; site logistics and sequencing.	y		n	Add for assist crane to help rotate panels	[\$12,800]	AS	n	Add for assist crane to help rotate panels	\$12,800	AS	n	Add for assist crane to help rotate panels	\$12,800	AS
12	Advise the Project Team on construction means & methods, potential safety hazards, and construction process feasibility. The feasibility of off-site pre-fabrication will be continually investigated and strongly encouraged.	y		y				y				y			
13	Prepare coordinated shop drawings. Shop drawings shall show how the work of this subcontract is to be installed in relation to the work of other trades. Work installed in conflict with the work of other trades (as a result of improper coordination) shall be corrected at this Subcontractor's expense. Coordinated drawings will identify access panel size and locations. Contractor to furnish access panels and field coordinate all locations with the installing Subcontractor. Subcontractor agrees to limit the number of access panels to be required.	y		y				y				y			
14	Provide loading information for coordination with Tower Crane Operations. Loading information to include, but not limited to: total load of each precast architectural concrete panel, number of panels to be installed per day, schedule, installation plan, etc. Tower Crane will be Pecco SK-415-20 with a max capacity of 22,050 lbs. at 131 ft.	y		n	add to provide panels to accommodate crane tower limits	[\$26,900]	AS	y				y			
15	Provide all shop drawings and calculations & analyses prepared, stamped and sealed by a Registered Professional Engineer, licensed in the project jurisdiction.	y		y				y				y			
16	Provide information and data to support LEED compliance. Participate in defining and developing potential Sustainable Design initiatives to achieve LEED certification.	y		y				y				y			
17	Subcontractor shall participate in meetings with Project Team to coordinate exterior wall details. The purpose of these meetings is to create a Continuity of Weather barrier, Compatibility of Products, etc. between all Exterior Wall & Roofing Products and assemblies.	y		y				y				y			
<b>Construction</b>															
18	Provide complete architectural precast Work, including but not limited to Type 1 - Precast Concrete Panels, Type 2 - Precast Concrete Panels with Formliner, and Type 3 - Think Brick Precast Concrete Panels.	y		y				y				n	Per RFI 156	(\$15,356)	HC
19	Throughout the design, fabrication and installation of this work, coordinate adjacent, penetrations, openings, terminations, intersections, or interactions of work by other trades.	y		y				y				y			
20	Fabricate and provide all support devices and connections required for complete installation of this work. Architectural Precast Contractor shall be responsible for the design and coordination of all supports and connections devices needed to connect the precast to the building structure. Coordinate floor to floor spans with structural dwgs.	y		y				y				y			
21	Shop drawings are to include but not limited to; mix designs, layout, connection and support systems, and erections drawings.	y		y				y				y			
22	Define areas where additional structural steel support (installed by others) which is not detailed in the drawings is required.	y		y				y	see proposal			y			
23	Install all inserts/ anchors for attachment of the architectural precast system, provide quantity of inserts anticipated to be cast into CIP, if any.	y		y				y	TBD			n	hardware install by others		
24	Coordinate installation of railings into the architectural precast panels with misc metals trade performing the work.	y		y				y				y			
25	Provide 5' (l) x 5' (w) integrated mock-up, with lifting device and attachment points. Review contract documents for requirements.	y		y				y				y			
26	Provide two (2) 12"x12" sample panels for color, texture and finish for review and approval.	y		y				y				y			
27	Provide form liners for Type-2 architectural precast panels configured as indicated on the drawings. Use form liners in accordance with Manufacturer's instructions.	y		y				y				y			
28	Provide think brick for Type-3 architectural precast panels as indicated on the drawings. Mix bricks from several cartons for uniform distribution of color variance.	y		y	Thin Brick type unknown, allowance for \$5/sf incl in base			y	Thin Brick type unknown, allowance for \$10/sf incl in base			y			
29	Provide accessories, include but not limited to; bearing pads, bolts, nuts, washer, etc. needed for a complete installed system.	y		y				y				y			
30	Maintain plant records and quality control program during production of precast units. Make records available upon request.	y		y				y				y			
31	Provide testing and analysis of concrete mix, including but not limited to; test cylinders, slump tests, air entrainment test cylinders, and water absorption tests	y		y				y				y			
32	Coordinate and provide precast panels for Mock-Up as required per spec 074264 Metal Composite Material Wall Panels and 084413 Glazed and Aluminum Curtainwalls.	y		y	per RFI 105	n/a		n	per RFI 105	n/a		n	per RFI 105	n/a	
33	Provide standard 1-year warranty.	y		y				y				y			
34	Covid Testing	y/n		y		\$950	AS	y	no added cost	n/a		y	no added cost	n/a	
<b>D. Exclusions</b>															
1	Joint Sealant of architectural precast to adjacent exterior systems - by Joint Sealants and Roofing	n		n				n				n			



2	Joint Sealant within architectural precast system - by Joint Sealants	n		n		n		n	
3	Grouting of embeds into CIP, if needed - by CIP	n		n		n		n	
4	Provide firesafing between architectural precast systems and slab edge - by Joint Sealant	n		n		n		n	
5	Flashing and joint sealant around MEP penetrations - by Air Barrier and Joint Sealant	n		n		n		n	
6	Provide a tower crane	n						(\$200,000)	HC
7									
<b>E. Special Trade Requirements</b>									
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%						
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y							
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		n					
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y				n	\$2M/ \$2M		
b	Office Policy [ Or Project Specific)	y							
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y							
4	Includes escalation of labor and material costs	y							
<b>F. Schedule</b>									
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.								
1	Review and comply with Turner Schedule (AP-6)	y				n	not incl		
2	Duration for submittals and shop drawings, in working days	?							
3	Duration for fabrication and delivery, in working days	?							
4	Installation duration, in working days	?					17-18 days		
<b>G. Alternates</b>									
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein								
1	100% Payment & Performance Bonds on Turner Forms	y							
2	Provide add alternate for onsite WC and GL insurance	y							
3									
<b>H. Unit Prices</b>									
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.								
1									
2									
3									



**03 CIP Concrete**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ 6pm**  
 AP1 Date **Revised 1/27/2002**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Greg Hammer, 484-684-4348, ghammer@tcco.com

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Canyon Contracting	CaC	Hardesty	HCC	Miller and Long	MAL
Jimmy Carpenter +1 301-829-1900 ext. 224 +1 240-398-0141 michellek@cncfoundations.com		Matthew Smedley +1 703-712-9002 msmedley@hardestyconcrete.com		Chris Nunes +1 301-657-8000 jeffmalone@millerandlong.com	
09/23/19 <b>FULLY SCOPED</b>		09/23/19 <b>FULLY SCOPED</b>		09/23/19 <b>FULLY SCOPED</b>	
\$ 4,478,500		\$ 4,678,400		\$ 4,487,000	
\$ 235,500 5.3%		\$ 388,350 8.3%		\$ 116,500 2.6%	
\$ 4,714,000 2%		\$ 5,066,750 10%		\$ 4,603,500	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
Turner Construction Company's Environmental Health and Safety Program																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y				y				y			
	5	Breakout Cost for Full Time Safety Manager	y		y				y				y	part of reg crew		
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y			
Bid Acknowledgements																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		?				n				n			
Contract Attachments																
	2	AP-1 Statement of Work dated 1/12/2022	y		?				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		?				y				n			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		?				y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
	6	AP-5 BIM Requirements	y		y				?				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
	8	AP-7 Equipment Coordination Matrix	y		y				?				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurance	y		y				y				n			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
	11	Bid valid for 90 days	y		n	15 days			y				n			
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y				n			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
Key Quantities and Breakouts (Populate Below)																
	1	Total Manhours	#		#	24,065 MH			#				#			
	2	Peak # of Workers anticipated	#		#	24 wkrs			#				#			
	3	Provide breakout of escalation costs	#		#	TBD			#				#			
	11															
	4	OMF BUILDING	#		#	see proposal			#				#			
	5	CYs of concrete	#		#	1004 CY			#	1600 CY			#	1600 CY		
	6	Tons of rebar	#		#	65 tons			#	70 tons			#	77 TON		
	7	SF of SOG	#		#	19845 SF			#				#	19,700 SF		
	8	SF of SOMD	#		#	25860 SF			#				#	29000 SF		
	9	SF of shear walls	#		#	--			#				#	n/a		
	10	Percentage of recycled content - steel	#		#	TBD			#				#	100%		
	10	Percentage of recycled content - concrete	#		#	TBD			#				#	TBD		
	4	PARKING GARAGE	#		#				#				#			
	5	CYs of concrete	#		#	3123 CY			#	3200 CY			#	2800 CY		
	6	Tons of rebar	#		#	194 tons			#	200 tons			#	200 tons		
	7	SF of SOG	#		#	17360 SF			#				#	17000 SF		
	8	SF of SOMD	#		#	45730 SF			#				#	n/a		
	9	SF of shear walls	#		#	9062 SF			#				#	7000 SF		
	10	Percentage of recycled content - steel	#		#	TBD			#				#	100%		
	10	Percentage of recycled content - concrete	#		#	TBD			#				#	TBD		
	12	Total CY of housekeeping pads included- OMF Bldg	#		#	4 + allowance			#				#	88 CY		
	12	Total CY of housekeeping pads included- Parking Garage	#		#	? + allow			#				#	5 CY		
	12	Total CY of topping slabs- OMF Bldg	#		#	0 CY			#				#	0 CY		



A/Q Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
12	Total CY of topping slabs- Parking Garage	#		#	41 CY			#	25 CY						
13	Costs included for hot and cold weather provisions	\$		\$	see proposal			\$	included						
14	Costs included to provide the CIP walls on the north end of the culverts	\$		\$	no bid			\$	TBD						
15	Costs included to provide the tower crane foundations needed	\$		\$	yes			\$	included						
16	Cost to provide COVID POLICY	y		y				n	\$1,450	HCC		y	\$[13,000]	MAL	
17	REBAR FOR MASONRY														
18	CY of Spoils												965 CY of spoils		
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>															
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	90 % employees, 10% subs			?	TBD			?			
2	Where do the materials come from?	?		?	regional			?	TBD			?			
3	What is lead time for materials?	?		?	4 wks			?	TBD			?			
4	Identify Major Subcontractors	?		?	n/a			?	TBD			?			
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is 30% BU UBE Participation Goal	?		?	0%			?	TBD			?			
<b>Prequalification</b>															
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?	on file			?	TBD			?			
2	Turner Prequalification Number:	?		?	on file			?	TBD			?			
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?	on file			?	TBD			?			
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?		?	on file			?	TBD			?			
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?	EMR	?	on file			?	1.08 EMR			?			
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?		?	on file			?	1.00%			?		0.56%	
7	Include Payment and Performance Bond	n	_____%	n	2%			n	\$46,784			n		25000,	
<b>AP-1 Statement of Work</b>															
<b>Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF</b>															
<b>03 CIP Concrete</b>															
Revised 1/27/2002															
y/n Sub															
<b>A. General</b>															
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y				y				y			
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 03 CIP Concrete scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		y				y				y			
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		y				y				y			
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y				y				y			
<b>B. Documents</b>															
	The Work shall consist of 03 CIP Concrete Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:														
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y				y				y			
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y				y				y			
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y				y				y			
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y				y				y			
5	RFI Log dated 2022 Jan 07 and Jan 24	y		y				y				y			
6	Specifications														
	- Division 00 - Procurement and Contracting Requirements (Complete)	y		y				y				y			
	- Division 01 - General Requirements (Complete)	y		y				y				y			
	030505 - Underslab Vapor Barrier	y		y				y				y			
	- 033000 - Cast-In-Place Concrete	y		y				y				y			
	- 033511 - Concrete Floor Finishes (as relates)	y		y				y				y			
	- 033800 - Post-tension Concrete	y		y				y				y			
	- 035400- Cast Underlayment	y		y				n	ok			n	ok		
	- 059000 Barrier Cable System Applications	y		y				y				y			
	- 072100 Thermal Insulation	y		y				y				y			
	- 313100 Termite Control	y		y				y				y			
	7 Addendum 1 - Revised Civil Drawings	y		y				y				y			



A/Q Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>C. Inclusions</b>															
<b>STANDARD REQUIREMENTS</b>															
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y				y				y			
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y				y				y			
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y				y				y			
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y				?				y			
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y				n				y			
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field	y		n				n				y			
8	All work performed shall be per governing codes	y		y				y				y			
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y				y				y			
<b>SPECIFIC SCOPE ITEMS</b>															
1	Provide labor, materials, equipment and services necessary for and reasonably incidental to the completion of all cast-in-place concrete work. The work includes all concrete poured in place with the required reinforcement called for on the drawings, concrete forms and forming, concrete over metal decking, pads under mechanical and electrical equipment and special pads as shown and noted on drawings. Coordinate concrete work with other trades and ensure the insertion of all cast-in-place items at the proper time.	y		y				y				y			
2	Provide the specialty engineer as called for in the specifications, to design the formwork and perform periodic inspections of the formwork. (ref spec 033000- 1.4.B and 1.5.B)	y		y				y				y			
3	Provide slab within flatness and levelness for flooring to be applied. Flooring will include vinyl tile and porcelain tile. Provide no less than Ff 30/ Ff 20. This Subcontractor to provide testing of slabs and report results.	y		n	FFFL test by others	ok		n	FFFL 2520, testing by others	ok		y			
4	Provide for steel beam and joist deflection in the estimating of the concrete quantities and the placement of concrete to provide floor flatness requirements. The steel beams and joist have been designed to industry deflection standards. Shore decks as necessary	y	Turner	n	no shoring decks	\$10,000	turner	n	no shoring	\$10,000	Turner	y			
5	Conduct the Pre-construction conference as required by the specifications and with the participants listed.	y		y				y				y			
6	Provide concrete for mock-ups as required, including providing the 10ft square concrete mockup for the use of the Painter for the Concrete Floor Finishes mock-up (ref spec 033511-1.5). Mockup will be stand-alone and may not remain at part of the work. Mockup will be removed by others at the end of the project.	y		y				y				y			
7	<b>Provide the stone subbase under slabs called for in the contract documents (ref S1-101 and sim) NEW- PER RFI-080 PROVIDE 6 INCHES OF STONE SUBBASE</b>	y		y				y				y			
8	Provide for hot weather and cold weather work. Provide all heating, enclosures, blankets, concrete additives, etc. for hot and cold weather concrete necessary for this scope of work to comply with Specification and ACI 306 and 306.1 requirements based on the project schedule for this scope of work. Coordinate heating requirement for installation of fireproofing. (Provide breakout of cost and material included).	y		y				?		\$50,000	Turner	y	includes hot water, blankets		
9	During cold weather, this Subcontractor and the concrete supplier are responsible for selecting the appropriate concrete design mix to prevent problems with curing and finishing	y		n	add UP provided	\$5,000	CaC	y				y			
10	Provide protection of footings against freezing. Cover completed work at footing level with sufficient temporary or permanent cover as required to protect footings and adjacent subgrade against possibility of freezing; maintain cover for time period as necessary.	y		y				y				y			
11	Comply with LEED requirements for this package for project to meet LEED Silver	y		y				y				y			
12	Provide all concrete accessories including, but not limited to, waterstops, construction joints, expansion joints, mechanical connections, control joints, pour stops, chairs, bond breakers, isolation strips, dowels, incidental hardware, nails, brackets, construction adhesive and other concrete reinforcing and fasteners as required for this scope of work. Ref detail 1/A3-002.	y		y				y				y			
13	Provide vapor barrier and insulation where indicated, under slab and on vertical faces of foundations as shown. Ref detail 1/A3-002. Drain board, protection board and waterproofing is by Waterproofing Subcontractor.	y		y				y				y			
14	Provide the related materials noted in spec section 033000-2.6 as required for your work, including vapor barrier (ref spec 030505), non-shrink grout, resin curing compound, waterproof sheet curing compound, bonding compound, patching mortar, joint filler strips, epoxy joint filler, and waterstop.	y		y				n	excludes sheet curing compound	\$5,000	Turner	y			
15	Install anchor bolts and rods at new columns (anchor bolts and templates provided by steel contractor). Ensure orientation and layout is acceptable prior to pouring footings, walls, and/or pier	y		y				y				y			
16	<b>Provide grouting of all leveling and base plates associated with the structural steel and drypacking.</b>	y		y				y				y			
17	Provide all slab depressions as shown. Note pitches and depressions shown on Slab Edge Plans A1-611 through 641 as well as shown in the structural plans and architectural detail	y		y				y				y			
18	Review and coordinate with the other trades concrete embed layouts (such as Curtain Wall, Arch/Structural Precast Panels, Misc Metal, etc.)	y		y				y				y			
19	Provide all reinforcement steel and welded wire fabric and all accessories required to properly place all reinforcing	y		y				y				y			
20	Provide epoxy-coated rebar where noted (ie OMF Dwg S1-101 note 8, detail 3/S2-102, and sim)	y		n	must include			y	marked ves but			y			
21	Provide final grading for slab on grade areas. Pitch concrete slabs toward floor drains as required to maintain positive drainage. Will receive site ( +/- 2/10"	y		y				y				y			
22	If this subcontractor utilizes cranes for the work on the OMF Building, all direct and indirect costs related to utilizing the cranes, including, but not limited to, additional foundations, permits, footings, structural slab and concrete revisions, structural review of submittals, etc. are the responsibility of this Subcontractor.	y		y	using pumps and lifts			y	using pumps and lifts			y			



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	23	Provide the tower crane for the Parking Garage construction, and include setting of the precast and steel by this crane. Please reference the Crane Plan in the Turner documents. Provide a crane equal to SK-415-20 with Max Capacity 22,050 lbs @ 131'. For use by the Precast subcontractor, include in your proposal the cost to provide the crane and operator for an additional 8 weeks, at 50 hours per week. Include providing any temporary foundations necessary for the tower crane. Include leave-out for the crane, and come-back work associated with infilling leave-out and other out-of-sequence or additional work associated with the tower crane.	y		y				y	?			n	Cost for additional 8 weeks of crane	[74,000]	MAL
	24	Provide the barrier cable system in parking garage. Note that this system is both vehicular restraint and pedestrian protection	y		y				y				n		[\$47,000]	MAL
	25	Review and coordinate with the other trades concrete embed layouts (such as Curtain Wall, Arch/Structural Precast Panels, Misc Metal, etc.	y		y				y				y			
	26	Review and coordinate with trades for the required size of the slab openings, sleeves (provided by others), penetrations, and blockouts. All layout shall precede wall erection and slab pour	y		y				y				y			
	27	Coordinate all curing compounds with finished floor manufacturer recommendations.	y		y				?				y			
	28	Provide pumping of casual rainwater as required to complete the work of this subcontract. Coordinate location to pump to with Turner Superintendent	y		y				y				y			
	29	Provide concrete wash out areas.	y		y				y				y			
	30	Provide toe kick for fall protection and maintain while on site.	y		y				y				y			
	31	Coordinate foundation work with utility/underslab MEP contractors.	y		y				y				y			
	32	Provide products by manufacturers as indicated in specifications.	y		y				y				y			
	33	Provide rigid Insulation below slab on grade as indicated.(ref detail 3/A3-102 and sim)	y		y				y				y			
	34	Include costs for deck deflections after curing of slab on metal deck, assume 1/2" average.	y		y				y	?			y			
	35	Provide stair pan infills at the metal pan stairs.	y		y				y				y			
	36	Provide excavation for foundation work. Site will be provided at subgrade level for slab on grade. Spoils are to stockpiled in a central location by this Subcontractor and will be hauled offsite by Earthwork Subcontractor. Provide excavation support for footers as required, except that due to depth, the Earthwork subcontractor will excavate the footings no the north perimeter wall of the Parking Garage down to top of footing for this Subcontractor, and backfill back to subgrade.	y		y				y				y	965 CY of spoils		
	37	Provide excavation for concrete depressions, pits, sumps, footing steps (ie detail 7/S2--101) and similar items as shown or noted	y		y				y				y			
	38	Provide excavation and backfill of ramp at garage as required. As noted on the structural drawings, area will be left unexcavated. (ref PG dwg S1-101)	y		y				?		\$2,000	Turner	y			
	39	Provide backfill on the interior of foundation walls, except that due to depth, the Earthwork subcontractor will excavate the footings no the north perimeter wall of the Parking Garage down to top of footing for this Subcontractor, and backfill back to subgrade	y		y				?	GRH TO GET SUB PRICE	\$30,000	Turner	y			
	40	Provide topping slabs a d ramps and ADA curb cuts where called or shown in the drawings. Note in particular in the Parking Garage, there is a 3" topping slab on each floor at the NE corner of the Parking Garage as noted on dwg PG-A1-311, 321, 331, and 341, indicated through the note regarding 3" sidewalk curb. Also include the topping slabs added in the Permit Dwgs in the PG, along the perimeter of the garage and at the shear wall.	y		n		\$60,000	M&L	n		\$60,000	M&L	n		[\$60,000]	MAL
	41	Provide concrete piers as called for in structural drawings (P1, P2, P3). See schedule on S2-101 and see note on detail 2/S2-102 noting to extend face to match CMU face	y		y				y				y			
	42	Provide thickened slab as shown, including at bollards as noted in detail 1/S2-102 and sim. Provide thickened slab at CMU walls, and including wall between Wash Bay and Maintenance Bays, which is to be CMU per RFI-174 response.	y		y				y				y			
	43	Provide the structural CIP staircase in the Parking Garage	y		y				y				y			
	44	Coordinate with Mechanical Subcontractor for their installation of hydronic radiant heat throughout maintenance bays (see dwg M1-111 for extent of system). 1/27/2022 - SEE 4/S2-101 per RFI-07€	y		y				y				y			
	45	Provide corrosion inhibitor as called for (ref PG dwgs Note 1/ S1-103)	y		y				y				y			
	46	Include installation of bollards in your work. Bollards will be furnished by Misc Metals Subcontractor	y		y				y				y			
	47	Include removal of snow and ice as necessary for continuation of your work.	y		y				y				y			
	48	Provide a FOURTEEN INCH (14") housekeeping pad under the RTU and ERU packaged units on the roof of the OMF Building (ref dwg S1-104) per the mechanical specifications	y		y				y				y			
	49	Provide a 8" housekeeping pad under the (2) generators.	y		y				y				y			
	50	Provide 4" housekeeping pads under boilers (see M4-101). These pads are shown on A1-621.	y		y				y				y			
	51	Provide 6" housekeeping pad, 4' x 4', under equipment PW-01 in Portable Equipment Storage room 124. Note that this pad is not shown on the drawings	y		y				y				y			
	52	Provide housekeeping pads as shown or noted. Include pads under all major floor-mounted service equipment and major floor-mounted MEP equipment. Reference detail 10/S2-101. Note that Note 11/S1-100 referencing detail 9/S2/101. Note that pads are also shown in the Slab Edge Plans A1-611 through 641. In ADDITION to all housekeeping pads shown, include providing an additional 40 CY for housekeeping pads not currently shown.	y		y				y				y			
	53	Per detail 11 on dwg Q6-500, Provide 50" deep slab at Vehicle Lifts, with pit depth of 17". Note that this overrides detail 8/S2-102, which states to verify pit depth with manufacture	y		y				y				y			
	54	For the (2) vehicle lift bays, include concrete infill between the two lift depressions, level with the main floor. Infill is to be 3' wide and full length of depression, reinforced similar to the main slab. Lift depth for these lifts should also be assumed as 17". This is now shown in Permit Dwgs, overriding response to RFI-174.	y		n		\$10,000	Turner	n		\$10,000	Turner	n		\$10,000	Turner
	55	Coordinate your deliveries, offloading, erect and installation with existing overhead power lines and other elements.	y		y				y				y			
	56	For the Parking Garage Elevator shaft, provide this shaft as concrete per the structural drawings, not as masonry per the architectural drawings. Provide a deduct alternate is shaft is masonr	y		y				y				y			
	57	Provide filling of concrete diamonds after slab is poured (ref detail 2/S2-101)	y		y				y				y			
	58	Provide the sloping of slabs noted in the Parking Garage dwg PG-A3-201, detail 5, 4, and 3 and similar.	y		y				y				y			
	59	Provide concrete partitions noted at south entrance in detail 1/PG-A1-311.	y		y				y				y			
	60	Comply with ART COVID testing policy			n	\$1500 per wk	\$78,000	CaC	n	1450 monthly	\$17,400	HCC	n		[\$13,000]	MAL
	61	Tower Crane to be in middle of building (Cost for up sizing) Provide additional cost for need to up size crane.	y	T	y				y				n		\$50,000	Turner
	62	Patch concrete after removal of fall protection cable stations	y		n		\$5,000	M&L	n		\$5,000	M&L	n		\$5,000	M&L



A/Q Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
63	Provide thickened slab under CMU wall between Wash Bay and Maintenance Bay (RFI-174)	Y		n		\$10,000	Turner	n		\$10,000	Turner	n		\$10,000	Turner
64	Provide shear wall in parking garage	Y		n				n		[\$30,000]		n			M&L
65	M&L - Included Alternate Foundation Design	n								(\$2,000)		y			M&L
66	Provide upturned rebar and dowels to be cast into slab as called for in dwgs.	y													
67	Provide the canal concrete slab and walls- provide 6" thick per VDOT detail PG-5, provide EJ every 90ft, provide the kick wall at the south end of the canal, provide 10ft of new wall at the end of Soldier Pile Wall Two. Provide tie-in to existing wall to remain as shown. This work will be performed concurrent with other work (no additional mobilization).	y		y				n		\$130,000	MAL	n		[\$130,000]	MAL
68	Provide grouting of elevator sills (12 total)	y		n		\$6,000	Turner	n		\$6,000	Turner	n		\$6,000	Turner
<b>D. Exclusions</b>															
2	Provide CMU reinforcement as required w/Masonry	n		n				n				n			
3	Provide caulking at control and isolation joints w/Joint Sealants	n		n				n				n			
5	Provide rammed aggregate piers w/Special Foundations.	n		n				n				n			
6	Provide backfill on the exterior of foundation walls w/Earthwork. Backfill of interior is by this Subcontractor	n		n				n				n			
7	Replacement of unsuitable soils, rock	n		n				n				n			
8	Ref detail 1/A3-002. Drain board, protection board and waterproofing is by Waterproofing Subcontractor.	n		n				n				n			
9	In parking garage, provide detectable warning surface at garage entrance (as noted on detail 1/PG-A4-201) and at each ADA curb cut on each floor of the garage. NEW-2/10/2022-	n		n				n				n			
10	PROVIDE REBAR FOR MASONRY is with Masonry Sub	n		n				n				y	up to 9 ton. REQUESTED PRICE	(\$14,000)	Turner
11	Provide wing walls north of culvert w/shot crete	n		n				n				n			
<b>E. Special Trade Requirements</b>															
1	% UBE - Underutilized Business Enterprise(Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#	___%		0%			n				#			
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y				y				y			
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y				y				y			
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y				y				y			
b	Office Policy [ Or Project Specific)	y		y				?				y			
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		y				?				y			
<b>F. Schedule</b>															
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule															
1	Review and comply with Turner Schedule (AP-6)	y		y				y				y			
2	Duration for submittals and shop drawings, in working days	?		?	4 wks			?	3 wks			?			
3	Duration for fabrication and delivery, in working days	?		?	4 wks			?	3wks			?			
4	Installation duration, in working days	?		?	per sch							?			
Concrete - OMF- Nov 2022 to Mar 2023 - 20 wks, PG - Mar 2023 to Oct 2023															
<b>Allowances</b>															
A 1	OMA Tenting and fuel for slab on metal deck pours.	y	turner	n		\$40,000	Turner	n		\$40,000	Turner	n		\$40,000	Turner
A 2	Provide Termite Control	y	turner	n		\$11,500	Turner	n		\$11,500	Turner	n		\$11,500	Turner
<b>G. Alternates</b>															
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.															
1	100% Payment & Performance Bonds on Turner Forms	y		y										\$25,000	
2	Provide add alternate for onsite WC and GL insurance	y		y				y	see prop						
3	Provide concrete mixtures with fly ash in place of cement to meet LEED requirements (VERIFY)	y		y											
4	Provide 25% recycled content in mix designs and materials	y			TBD										
5	Provide 50% recycled content in mix designs and materials	y			TBD										
6	Provide deduct to not provide vehicle barrier cable system in Parking Garage	y		y											
7	Provide Bracing walls for backfill at Parking Garage	y		y											
8	Provide deduct for the pads under the RTUs and Generators	y		n											
9	Provide additional cost to provide additional concrete per the "Alternate Foundations" shown on dwg S2-103	y		?				y		\$112,000		y		base bid	M&L
10	Provide slab thickening under wall between Chassis Wash Bay and Maintenance Bay if wall is changed to CMU (RFI-171)	y		n				n							
<b>H. Unit Prices</b>															
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.															



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
	1	Provide (1) CY of housekeeping pad, complete, including framing, dowels, etc.				y												\$800/cy, two CY min
	3																	



**04 Masonry**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Slantec Architecture Inc.  
 Bid Date **1/27/2022 @ 6PM**  
 AP1 Date **1/12/2022, UPDATED 1/26/2022, Final Draft 2/24/2022**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Greg Hammer, 484-684-4348, ghammer@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Genco Masonry	GEN	JD Long Masonry	JDL	United Masonry	UNM	JPN Masonry	JPN	First Choice Masonry	FCM
Joe Macario +1 301-657-3340 +1 301-329-0301 jmacario@genmason.com		Josh McCullough +1 571-319-9836 (111) 111-1111		Charlie Henry +1 703-926-4307 (111) 111-1111 chenry@unitedmasonry.com		Otto Madrid (888) 888-8888 +1 202-603-6072 estimating@jpnmasonry.com		Ed Cleck 202-529-0194 (111) 111-1111 ed@firstchoicemasonry.net	
01/27/22		01/28/22		02/02/22		02/02/22		02/10/22	
FULLY SCOPED		FULLY SCOPED		FULLY SCOPED		FULLY SCOPED		FULLY SCOPED	
\$ 1,010,500		\$ 1,140,000		\$ 1,023,725		\$ 1,415,599		\$ 1,075,000	
\$ 82,250 8.1%		\$ 274,260 24.1%		\$ 206,190 20.1%		\$ 171,780 12.1%		\$ 218,260 20.3%	
\$ 1,092,750		\$ 1,414,260 29%		\$ 1,229,915 13%		\$ 1,587,379 45%		\$ 1,293,260 18%	
due by 2/11									

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
Turner Construction Company's Environmental Health and Safety Program																				
1		Turner Construction Company's Environmental Health and Safety Program	y		y								y					y		
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		n	Plan not yet issued							y					y		
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y								y					y		
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y								y					y		
5		Breakout Cost for Full Time Safety Manager	y		n	not required							y	\$1300/wk				y	add \$19700	
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y								y					y		
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y								y					y		
Bid Acknowledgements																				
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y								y					y		
Contract Attachments																				
2		AP-1 Statement of Work dated 1/12/2022	y		y								y					y		
3		AP-2 Documents List dated 10/22/2021	y		y								y					y		
4		AP-3 Supplementary Provisions dated 1/14/2022	y		N	Yes but \$4500 for composite crew	\$4,500	GEN					y					y		
5		AP-4 Logistics Plan dated 12/22/2021	y		y								y					y		
6		AP-5 BIM Requirements	y		n	N/A							y					y		
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y								y					y		
8		AP-7 Equipment Coordination Matrix	y		y								y					y		
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y								y					y	add \$37,900	
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y								y	\$28,115				y		
11		Bid valid for 90 days	y		y								y					y		
12		Retainage: 5%	y		y								y					y		
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y								y					y		
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y								y					y		
Key Quantities and Breakouts (Populate Below)																				
1		Total Manhours	#		#				#	10,750 MH			#	14,122 MH			#	12,000 MH		
2		Peak # of Workers anticipated	#		#	18 wkrs			#	33 wkrs			#	12 wkrs			#	25 wkrs		
3		Provide breakout of escalation costs	#		#	TBD - included			#				#				#	\$331,600 (escalation of 8%)		
Scope Quantity Breakouts																				
4		Brick area (sf)	#		#				#	6730 SF			#	6905 SF			#	7900 SF		
5		CMU area (sf)	#		#				#	26200 SF			#	30791 SF			#	28600 SF		
6		Cast Stone area (sf)	#		#				#	382 LF			#	220 SF			#	285 LF		
7		Rebar (tons)	#		#				#	15,200 LF			#	12.5 ton			#	9 ton		
###		Ground face block area (SF)	#		#				#	6350 SF			#	6630 SF			#	6900 SF		
NEW		Split Face Block area (SF)	#		#				#	500 SF			#				#			
Cost Breakouts																				
9		OMF Building - exterior(Cost Breakout)	\$		\$				\$				\$	586k			\$			
10		OMF Building - interior (Cost Breakout)	\$		\$				\$				\$	758k			\$			
NEW		OMF Bldg - Total	\$		\$	\$875,000			\$				\$				\$			
11		Parking Garage (Cost Breakout- total masonry for building)	\$		\$	\$47,000			\$				\$	71k			\$			
Subcontractors (Provide Name, Scope UBE % and Price \$)																				
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?											employees				?		
2		Where do the materials come from?	?							USA				USA				?		
3		What is lead time for materials?	?			8 mo for brick				16 wks								?	brick and GRD Face 16 wks	
4		Identify Major Subcontractors	?			n/a												?	none	
5		Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?															?		
Prequalification																				
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?															?		
2		Turner Prequalification Number:	?															?		
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?															?		
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?															?		
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	0.70 EMR			?	0.90 EMR				0.95 EMR			?	1.0 EMR		
6		Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?															?		
7		Include Payment and Performance Bond	n		%	1.00%			n	2.50%				3%	[\$42,468 ??]		n	1.60%		
Price																				
Price:																				
STOP																				



<p>Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.</p> <p>Company: Individual: Title: Signature: Date:</p>																											
AP-1 Statement of Work		Genco Masonry B1		JD Long Masonry B1		United Masonry B1		JPN Masonry B1		First Choice Masonry B1																	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF		0		0		0		Otto Madrid (888) 888-8888		Ed Cleck 202-529-0194																	
04 Masonry		-		-		-																					
1/12/2022, UPDATED 1/26/2022, Final Draft 2/24/2022		y/n/Sub																									
<b>A. General</b>																											
The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y		y		y		y		y																	
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 04 Masonry scope as defined in this Statement of Work and as shown or described in the Contract Documents.		y		y		y		y		y																	
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and functional requirements.		y		y		y		y		y																	
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y		y		y		y		y																	
<b>B. Documents</b>																											
The Work shall consist of 04 Masonry Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																											
1 Phase IV Submission for GMP Drawings - dated 12/21/2021		y		y		y		y		y																	
2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021		y		y		y		y		y																	
3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021		y		y		y		y		y																	
4 Phase IV Submission for GMP Specifications dated 12/21/2021		y		y		y		y		y																	
5 RFI Log dated 2022 Jan 07 and 2022 Jan 24		y		y		y		y		y																	
6 Specifications		y		y		y		y		y																	
- Division 00 - Procurement and Contracting Requirements (Complete)		y		y		y		y		y																	
- Division 01 - General Requirements (Complete)		y		y		y		y		y																	
042000 - Unit Masonry		y		y		y		y		y																	
040511 - Mortar and Masonry Grout		y		y		y		y		y																	
- 047250 - Cast Stone Masonry		y		y		y		y		y																	
- Division 5 - as applicable		y		y		y		y		y																	
- 055000 - Metals Fabrications (as relates - loose steel lentils)		y		y		y		FBO		y																	
- Division 7 - (as relates)		y		y		y		y		y																	
- 072100 Thermal Insulation (as relates - Cavity space insulation)		y		y		y		y		y																	
- 072600 - Sheet Metal Flashing and Trim (as relates for through-wall masonry flashings)		y		y		y		y		y																	
- Division 8 - as relates		y		y		y		y		y																	
7 Addendum 1 - Civil Drawings		y		y		y		y		y																	
<b>C. Inclusions</b>																											
<b>STANDARD REQUIREMENTS</b>																											
1 Includes Hoisting/Rigging/Scaffolding Required for your Work		y		y		y		y		y																	
2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters		y		y		y		y		y																	
3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)		y		y		y		y		y																	
4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.		y		y		y		y		y																	
5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system		y		y		n		y		y																	
6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system		y		y		sleeves FBO		n		\$1,000		Turner		n		excludes coring, sleeving, firestopping for pene's		\$1,000		Turner		n		\$1,000		Turner	
7 All work performed shall be per governing codes		y		y		y		y		y		y		y		y		y		y		y		y		y	
8 Include cost of all surveying and layout (baseline survey to be provided by others)		y		y		n		no surveying		\$1,000		Turner		y		n		no surveying		\$1,000		Turner		y		y	
9 Include field measurement as required prior to fabrications		y		y		n		y		y		y		y		y		y		y		y		y		y	
<b>SPECIFIC SCOPE ITEMS</b>																											
11 Provide complete all brick and unit masonry, mortar, grout and misc masonry components, special shapes, metal reinforcing, ties, anchors and misc accessories and hardware required for the Work of this agreement.		y		y		y		y		y		y		y		y		y		y		y		y		y	
12 Provide all cast stone as shown (ref detail 8/ A3-001 fro 2" stone panel, detail 3/A3-002 for cast stone caps, and similar)		y		y		n		excludes 2" stone, included as ground face CMU		\$2,000		JDL		y		y		y		y		y		y		y	
13 Provide pre-installation meeting at least one week before starting work of the trade.		y		y		y		y		y		y		y		y		y		y		y		y		y	
14 Provide mockup as called for in spec section 014000-1.7. Provide masonry scope for a composite mockup of all components of the building exterior, and will be 10' x 10', including a brick masonry panel with corner, and will NOT be an in-situ mockup. Also note that materials needed for construction of the mockup will be required early in the project to complete this work in advance of (out of sequence with) the building construction. Include providing these out of sequence materials in your scope.		y		y		n		\$2500 allow		NEED A&C		Turner		y		y		y		y		y		y		y	







05 Struct Steel

Project: Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
 Job #: 20039  
 A/E: Stantec Architecture Inc.  
 Bid Date: 1/27/2022 @ 6PM  
 AP1 Date: 1/12/2022, UPDATED 1/26/2022  
 Est: Scott Stevenson  
 Pro: Johnnel Lanham  
 Ops: Derek Brown  
 Estimator: Greg Hammer, 484-684-4348, ghammer@tcco.com

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Kinsley KIN	Crystal Steel Fab CSF	Iron Fabrication Services IFS	Steel, LLC Stl	Gray Wolf GRW	Somerset SOM
Brandon Blackhurst 717-757-8848 bblackhurst@kinsleysteel.com	Robert Brady +1 303-332-9076 (111) 111-1111 bbrady@crystalsteel.net	Ali Azad +1 410-712-7070 ext. 1002 +1 240-543-8017	Jeff Walden (404) 704-1625 (678) 524-7462 jwalden@steelincga.com	Joe Moody/ Dusty Roach (888) 888-8888 (111) 111-1111 email@email.com	Name (888) 888-8888 (111) 111-1111 email@email.com
01/27/22	01/27/22	02/28/22	09/23/19	01/28/22	01/31/22
FULLY SCOPED	FULLY SCOPED	FULLY SCOPED	FULLY SCOPED	FULLY SCOPED	NO
\$ 2,237,000	\$ 2,082,100	\$ 2,871,750	\$ 2,824,000	\$ 2,302,122	\$ 4,265,000
\$ 159,500 7.1%	\$ 130,000 6.2%	\$ 129,000 4.5%	\$ 130,000 4.6%	\$ 149,000 6.5%	\$ 124,000 2.9%
\$ 2,396,500 8%	\$ 2,212,100	\$ 3,000,750 36%	\$ 2,954,000 34%	\$ 2,451,122 11%	Incomplete

Prep. updated 2/28

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
		<b>Turner Construction Company's Environmental Health and Safety Program</b>																		
	1	Turner Construction Company's Environmental Health and Safety Program	y		y															
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y															
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y															
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n/a								n/a							
	5	Breakout Cost for Full Time Safety Manager	y		n/a								n/a							
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y															
	7	Include Involvement with all Building L.I.F.E requirements (Including Daily Muster & Stretch & Flex)	y		y															
		<b>Bid Acknowledgements</b>																		
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y															
		<b>Contract Attachments</b>																		
	2	AP-1 Statement of Work dated 1/12/2022	y		y															
	3	AP-2 Documents List dated 10/22/2021	y		y															
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		n	Add for composite crew and Textura	\$15,000	KIN	n/a											
	5	AP-4 Logistics Plan dated 12/22/2021	y		y															
	6	AP-5 BIM Requirements	y		y															
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y															
	8	AP-7 Equipment Coordination Matrix dated 1/25/2022	y		y															
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances	y		y															
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y								6%							
	11	Bid valid for 90 days	y		n	7 days			n	10 days			n							
	12	Retainage: 5%	y		y															
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y															
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y																	
		<b>Key Quantities and Breakouts (Populate Below)</b>																		
	1	Total Manhours	#																	
	2	Peak # of Workers anticipated	#																	
	3	Provide breakout of escalation costs	#																	
	4		#																	
	5	Tons of steel	#		#	470 tons	[460 tons OMA, 10 tons PG]		#	430 tons - has PG StrStl in MM bid		#	480 tons	#	486 tons		#	472 tons		
	6	Pieces of steel	#																	
	7	Pieces set per day	#																	
	8	Tower crane time in days	#		#	2 days			#	3 days for PG										
	9	Erector company name	?																	
	10	Is erector AISC certified? (note additional requirements if not certified)	y		y				y				y	yes			y	yes		
	11	Heaviest anticipated tower crane pick	#		#	1000 lbs														
	12	Distance to heaviest tower crane pick	#		#	150 ft														
	13	SF of Metal deck	#		#	44,400 sf	[162 sqs OMA, 6 sqs PG]		#	46,600 SF							#	47100 SF		
	14	Shear Studs- EA	#		#	11,160 studs			#	5673 studs		#	6150 studs	#	6300 studs		#	6300 studs		
	15	Breakout HSS members (Hollow Structural Steel)- TONS	#		#	32 tons			#	32 tons		#	32 tons	#	30,56 tons		#	30,56 tons		
	16	Breakout AESS (Architectural Exposed Structural Steel)- TONS	#		#	0 tons						#	0 tons	#	excluded		#	?		
	17	Dunnage- TONS	#						#	16 tons		#	0 tons	#	?					
	18	Connections- LS	#																	
	19	Crane- LS	#																	
	20	OSHA Protection- LS	#																	
	NEW	Cost for Parking Garage steel and decking for interstitial space above Stairs 1 & 2 NEW-PER RFI response, there is no interstitial space, it was dwgs error, steel and deck shown will be moved up to under roof	n										y	included	see below		n	Excluded		
	NEW	BREAKOUT COST FOR OMA BLDG					[\$2,122,000]													
	22	BREAKOUT COST FOR PARKING GARAGE					[\$115,000]													
		<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																		
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?			non-union				company workforce										
	2	Where do the materials come from?	?			York PA														
	3	What is lead time for materials?	?			10 wks from approval														
	4	Identify Major Subcontractors	?																	
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?	None														
		<b>Prequalification</b>																		
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?															
	2	Turner Prequalification Number:	?							04334 #										



05 Struct Steel			Kinsley KIN	Crystal Steel Fab CSF	Iron Fabrication Services IFS	Steel, LLC Stl	Gray Wolf GRW	Somerset SOM
			Brandon Blackhurst	Robert Brady	Ali Azad	Jeff Walden	Joe Moody/ Dusty Roach	Name
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?						
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?						
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?	0.72 EMR			0.72 EMR	1.0 for williams	
6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?		1.00%	1.50%	1.00%		
7	Include Payment and Performance Bond	n	n	n	n	n	n	
Price								
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.								
Company:								
Individual:								
Title:								
Signature:								
Date:								
AP-1 Statement of Work			Kinsley B1	Crystal Steel Fab B1	Iron Fabrication Services B1	Steel, LLC B1	Gray Wolf B1	Somerset B1
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF			0	0	0	0	0	Name
05 Struct Steel			-	-	-	-	-	(888) 888-8888
1/12/2022, UPDATED 1/26/2022			y/n	Sub				
<b>A. General</b>								
	The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y	y	y		y		
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 05 Struct Steel scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y	y	y		y		
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y	y	y		n		
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y	y	y		y		
<b>B. Documents</b>								
	The Work shall consist of 05 Struct Steel Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Startec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:							
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y	y	y		y		
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y	y	y		y		
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y	y	y		y		
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y	y	y		y		
5	RFI Log dated 2022 Jan 07 and 2022 Jan 24	y	y	y		y		
6	Specifications	y	y	y		y		
	- Division 00 - Procurement and Contracting Requirements (Complete)	y	y	y		y		
	- Division 01 - General Requirements (Complete)	y	y	y		y		
	0512000 - Structural Steel	y	y	y		y		
	- 053100 - Steel Deck	y	y	y		y		
7	Addendum 1 - Revised Civil Drawings	y	y	y		y		
<b>C. Inclusions</b>								
<b>STANDARD REQUIREMENTS</b>								
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y	y	y				y
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y	y	y				y
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y	y	y				y
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y	y	y				y
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y	y	y				y
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y	n	only as shown on Struc dwgs	ok	y		y
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y	y				n	ok
8	All work performed shall be per governing codes	y	y					y
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y	y				n	see below
10	Include field measurement as required prior to fabrications	y	y				n	see below
								y
<b>SPECIFIC SCOPE ITEMS</b>								
11	Provide the complete Structural Steel work as shown or noted in the contract documents, including all work such as providing all anchor bolts, baseplates, columns, beams, cross bracing, kickers, frames, connections, gussets, plate steel, stiffeners, bolts, welds, shear studs, accessories, metal decking, etc. required for complete steel assemblies	y	y			y		y
12	Include all structural steel for the project. The scope of work document is a guide.	y	y			y		y
13	Furnish all anchor bolts, embed plates, misc embeds, sleeves etc. to concrete sub for installation	y	y			y		y
14	Furnish column anchor rods per contract documents. Installation by Concrete Subcontractor.	y	y			y		y
15	Provide design and engineering for all connections. Include stamp from PE registered in Virginia	y	y			y		y



05 Struct Steel			Kinsley	KIN	Crystal Steel Fab	CSF	Iron Fabrication Services	IFS	Steel, LLC	Stl	Gray Wolf	GRW	Somerset	SOM					
			Brandon Blackhurst		Robert Brady		Ali Azad		Jeff Walden		Joe Moody/ Dusty Roach		Name						
16	Provide cranes, operators, rigging, etc. for the MOF building. Refer to the Logistics Plan for temporary construction road that will be provided. Provide cranes, operators, rigging, etc for Parking Garage for steel that cannot be set with the PG tower crane and for steel that will be set after the crane is disassembled, which will be at the end of the concrete and precast installations. Please reference Turner schedule for specific dates.	y	n	\$30k add to not have crane inside bldg footprint	\$30,500	KIN	y				y								
17	Provide camber in structural members where indicated (ref sepc 051200-2.2.A)	y	y				y				y								
13	Provide all HSS beams and similar support beams shown for masonry walls and canopies on dwg S1-102 thru 104 and in details on S3-201 and similar.	y	y				y				y								
14	For detail 4/S3-202 for crane support steel, include all work associated with this detail except work noted as by Bridge Crane Supplier. Include providing the W12 beam. For future beams, include all work except the W12 beam. Provide a price under "Alternates" below to provide these future W12 beams at time of installation of the balance of the work.	y	y				y				y	see quote quals							
15	Coordinate with other trades, Turner, testing agencies, owner's reps, etc. as required	y	y				y				y								
16	Include all welding for the structural steel erection, as required per the documents and final design	y	y				y				y								
17	Hot dip galvanize all steel members noted as such (all exposed exterior steel)	y	y				y				y								
18	Provide shoring, guying, bracing, etc. where required. Include design and engineering for same.	y	y				y		n	does not include design	y								
19	Provide steel grades as noted in the associated tables and notes	y	y				y				y								
20	Include comeback work as required / as indicated.	y	y				n		n	to be discussed	n	\$5,000	Turner						
21	Provide all metal decking. Provide as galvanized unless noted otherwise. At LG framing in detail 3/S3-302, furnish decking for installation by LG subcontractor/Roofing Subcontractor	y																	
7	Perform internal preconstruction survey prior to start of work to confirm existing conditions	y																	
8	Provide all deck closures / edge plates / bent plates and pour stops required to form slab edges for concrete pours to follow. Ref Pour stop schedule on S3-103	y	y				y				y								
9	Provide all drilling and doweling as required for this scope of work	y	y				n/a		n/a		n								
10	Provide openings in steel members as required. Coordinate with others trades where applicable.	y	y				n	none shown	n	none noted	n								
11	Participate in preconstruction meetings as required.	y	y				y				y								
12	Include stamped documents (calcs, etc) as required by Arlington County for structural steel and metal decking by PE registered in Virginia.	y																	
13	Include structural steel primer at required locations.	y	y				y				y								
14	Include fabricator and erector reporting as per the specifications.	y	y				y				y								
15	Include all project closeout documentation and record documents as required per the specifications.	y	y				y				y								
16	Coordinate with the permanent roof fall protection tie-off anchors. Installation is by Anchor Subcontractor.	y	y				y				y								
17	Provide the proprietary system of slide bearing elements as manufactured by the Fluorocarbon Company, or equal, as required in spec section 051200-2.1.J.	y	y				n/a		n	none req'd	y	none req'd							
1	Provide proper storage for any materials stored on site (ref 051200-3.2.D).	y	y				y				n								
2	Clean concrete and masonry bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces. Clean bottom surface of base and bearing plates.	y	n	\$1,000	Turner	y					y								
3	Provide TEMP fall protection cabling at all slab edge conditions where fall hazard exists. Provide removal of this work to a level slab ready for finishes (ie grind stubs of angle iron posts if used, etc).	y	n	Not at roof and includes install but not removal	\$12,000	KIN	n	does not include removal	\$1,000	Turner	y	n	removal by others	\$1,000	Turner	n	roof safety cable is excluded	\$10,000	GRW
4	Provide braced frames including kicker at beam gussett per detail 8/S3-102.	y	y								n								
39	Provide welding of masonry anchors to steel where required.	y									n	\$5,000							
40	Provide the portion of the canopy steel that is shown on the structural framing dwgs for the OMF Building and Parking Garage (ie PG dwg S1-102, include the C10x15.2 members, and OMF bldg dwg S1-103, include for both canopies, the HSS 8x6x5/16 and C10x30, C10x20, and C10x15.3 etc members and similar).	y	y				y	only HSS8, rest is in Misc Metals bid	CSF		y								
41	Provide steel members and decking for the interstitial level between level 4 and the high roof noted on dwg details 5&6/ PG-A5-101 & 102. Because this is not clearly detailed on the structural drawings, please assume the steel and decking for the interstitial level will be the same as the roof framing shown on S1-105. NEW-2/9/2022- Per RFI response, there is no interstitial level, dwgs will be corrected to show steel and deck moved up to roof level)	n	y	(\$49,000)	KIN	n	INCLUDED IN MISC METAL BID	CSF			n								
NEW	Provide the column extensions noted in dwg PG-A3-101 and PG-A1-351, and including install lightpole baseplates furnished by Electrical Subcontractor.	n	n								n								
NEW	COVID POLICY ADD		n	\$5,000	KIN	n	\$5,000	KIN	n	\$5,000	KIN	n	\$5,000	KIN					
NEW	MOVE Crystal Steel PG struct steel costs from MISC METALS to Struct. Steel		n	\$107,400	CSF														
NEW	PROVIDE STEEL OUTRIGGER FOR METAL PANELS PER ASSEMBLY DETAIL 10/A3-001																		
NEW	ADD for Kinsley' exclusion of detail 10/S3-202- C-channel bot of beam and L angle to CMU wall		n	75/LF	\$15,000	KIN													
NEW	ADD for Kinsley' exclusion of all embedded steel and grating - shop welded items only	y	y	Clarified by Kinsley that this is included/ no price increase															
NEW	SURFACE PREP LEVEL		n	SSPC-SP3 ONLY	[ADD A&C]				n										
NEW	Remove Kinsley exclusion of Str Steel at Chassis Wash Bay		n	\$6,000	KIN														
NEW	2/15/2022 - Provide Steel in clean condition to accept Fireproofing. Clean steel if steel has become contaminated with dirt, etc.	y																	
NEW	2/15/2022 - Provide galvanized steel for all steel in the Wash Bay (col lines 12 and 11,	y																	
NEW	2/15/2022 - Confirm that fabrication is AISC certified (Verification of AISC Erector is Key Quan Item 10)	y					y												
NEW	Stair installation will be concurrent with steel installation, and temporary railing angles and safety cable will be provided and removed when permanent railing is installed. (per Bid Review Mtg)	y					y				y								
<b>D. Exclusions</b>																			
1	Furnish and installation the roof fall protection / window-washing tie-off anchors is by Fall Protection Anchor Subcontractor.	n																	
2	Screenwall framing is by Misc Metals (detail C/S1-105)	n																	
3	Install fall protection anchors furnished by Fall Prot Sub	n	KIN			KIN	n				n								
4	Removal of perimeter guard rails at edge of slab will be by General Contractor	n																	
5	Patching after removal of perimeter guard rails at edge of slab will be by Concrete Sub	n																	



				Kinsley	KIN	Crystal Steel Fab	CSF	Iron Fabrication Services	IFS	Steel, LLC	Stl	Gray Wolf	GRW	Somerset	SOM
				Brandon Blackhurst		Robert Brady		Ali Azad		Jeff Walden		Joe Moody/ Dusty Roach		Name	
<b>05 Struct Steel</b>															
6	Provide specified surveys (ref 051200-1.4.J and 051200-3.1B- anchor bolt, bearing plate and embed for beam connection layout) by Survey Subcontractor	y	STL												
7	At LG framing in detail 3/S3-302 , furnish decking for installation by LG subcontractor/Roofing Subcontractor	y													
8	Provide non-shrink grout where called for for your work. (ref 051200-3.2.H) will be by Concrete Subcontractor	y													
		y													
<b>E. Special Trade Requirements</b>															
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%												
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y													
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y													
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y													
b	Office Policy [ Or Project Specific]	y													
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y													
<b>F. Schedule</b>															
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.															
1	Review and comply with Turner Schedule (AP-6)	y				y									
2	Duration for submittals and shop drawings, in working days	?						35 days							
3	Duration for fabrication and delivery, in working days	?						40 days							
4	Installation duration, in working days	?						50 days							
	NEW - OMA - Start Dec 2022, 50 day duration														
	NEW - PG - not listed, assume Sept 2023, 10 day duration														
<b>Allowances</b>															
A 1	Provide steel members and decking for the interstitial level between level 4 and the high roof noted on dwg details 5&6/ PG-A5-101 & 102. Because this is not clearly detailed on the structural drawings, please assume the steel and decking for the interstitial level will be the same as the roof framing shown on S1-106.														
A 2	Supplemental Steel for under roof davit anchors where not located on structural Steel	y		n	\$50,000	Turner	n	\$50,000	Turner	n	\$50,000	Turner	n	\$50,000	Turner
A 3	Additional supplemental stiffeners for Davit Anchors (18 locations)	y		n	\$9,000	Turner	n	\$9,000	Turner	n	\$9,000	Turner	n	\$9,000	Turner
A 4	Protection of Stairs for construction use of stair is AEES			n	\$5,000	Turner	n	\$5,000	Turner	n	\$5,000	Turner	n	\$5,000	Turner
A 5	Additional supplemental framing at penetrations not shown on structural plans	y		n	\$10,000	Turner	n	\$10,000	Turner	n	\$10,000	Turner	n	\$10,000	Turner
A 6	Allowance to galvanize the structural steel in the Wash Bay	y		n	\$50,000	Turner	n	\$50,000	Turner	n	\$50,000	Turner	n	\$50,000	Turner
A X															
<b>Alternates</b>															
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein.															
1	100% Payment & Performance Bonds on Turner Forms	y						\$22,121							
2	Provide add alternate for onsite WC and GL insurance	y						\$4,500		\$4,800					
3	Provide future W12 beams (ref note 12/S1-102) at time of installation of the balance of the work.	y						\$9,400		\$12,500					
3	Provide temporary stairs for building during period before permanent stairs are available. Assume (3) month duration, and provide monthly rate to extend	y													
	Roof Screen Framing	y						\$112,700		\$150,000					
<b>Unit Prices</b>															
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.															
1															
2															
3															



**05 Misc Metals**

Project: Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
 Job #: 20039  
 A/E: Stantec Architecture Inc.  
 Bid Date: 1/27/2022 @ 6pm  
 AP1 Date: 1/12/2022, Updated 1/26/2022, Updated 2/15/2022  
 Est: Scott Stevenson  
 Pro: Johnnel Lanham  
 Ops: Derek Brown  
 Estimator: Greg Hammer, 484-684-4348, ghammer@tcco.com

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

AIW	AIW	Baltimore Fabrication	BaF	Crystal Steel Fab	CSF	Iron Fabrication Services	IFS	Gray Wolf (ONLY WITH STR STL)	GW
Vahe Tanashian +1 301-277-8444 ext. 5863 +1 202-497-5572 r-tanchian@americanironworks.com		Connor Flanary +1 410-522-0300 ext. 317 +1 443-835-5905 cflanary@baltimorefab.com		Bob Brady +1 303-332-9076 (111) 111-1111 bbrady@crystalsteel.net		Ali Azad +1 410-712-7070 ext. 1002 +1 240-543-8017		Joe Moody (678) 821-7056 (111) 111-1111 email@email.com	
01/28/22						02/28/22			
<b>FULLY SCOPED</b>		<b>NO</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>NO</b>	
\$ 3,133,300		\$ 1,836,656		\$ 3,227,241		\$ 2,047,250		\$ 996,018	
\$ 310,479 9.9%		\$ 1,184,209 64.5%		\$ 134,900 4.2%		\$ 988,909 48.3%		\$ 1,182,025 118.7%	
\$ 3,443,779 13%		<b>Incomplete</b>		\$ 3,362,141 11%		\$ 3,036,159		<b>Incomplete</b>	
		may have manpower install issue				DOES NOT DO ALUMINUM			
		<b>BAL OF PRICING NOT RECEIVED</b>							

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
<b>Turner Construction Company's Environmental Health and Safety Program</b>																					
1		Turner Construction Company's Environmental Health and Safety Program	y						y												
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y						y												
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y						y												
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y						n/a												
5		Breakout Cost for Full Time Safety Manager	y						n												
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y						y												
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y						y												
<b>Bid Acknowledgements</b>																					
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y						n	TBD											
<b>Contract Attachments</b>																					
2		AP-1 Statement of Work dated 1/12/2022	y						y	as noted											
3		AP-2 Documents List dated 10/22/2021	y						y												
4		AP-3 Supplementary Provisions dated 1/14/2022	y						n	TBD											
5		AP-4 Logistics Plan dated 12/22/2021	y						n												
6		AP-5 BIM Requirements	y						n												
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y						n	Excluded											
8		AP-7 Equipment Coordination Matrix	y						n												
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y						n												
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y						n												
11		Bid valid for 90 days	y						n												
12		Retainage: 5%	y						n												
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y						n												
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y						y												
		NEW- Material breakout cost																			
		NEW- Field Labor breakout cost																			
		NEW- Subcontractor breakout cost																			
		NEW- Shop Labor Cost																			
<b>Key Quantities and Breakouts (Populate Below)</b>																					
1		Total Manhours	#																	TBD	
2		Peak # of Workers anticipated	#																	TBD	
3		Provide breakout of escalation costs	#																	none	
4																					
5		Breakout Cost for OMF Building	\$																	[757,355]	
6		Breakout Cost for Parking Garage	\$																	[238,663]	
7		Breakout Cost for Site (Retaining Wall Handrail)	\$																	n excluded	
8																					
9		Tons of steel - OMF Building	#																	37 tons	
10		Tons of steel - Parking Garage	#																	11 tons	
11		LF of Handrail - site	#																	excluded	
12																					
13		Breakout cost of Stainless Steel Staircases 1 & 2	\$																		
14		Breakout cost of stainless steel top rail on staircase 1 & 2	\$																		
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																					
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?																		TBD
2		Where do the materials come from?	?																		varies
3		What is lead time for materials?	?																		varies
4		Identify Major Subcontractors	?																		Williams of VA, IFI
5		Provide ___ % UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																		TBD
<b>Prequalification</b>																					
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?																		TBD
2		Turner Prequalification Number:	?																		TBD
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																		TBD
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																		TBD



5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?	EMR _____				emr 0.72		EMR 1.0				Williams = 1.0	
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?				1.25%		PPR 1.2%						
7	Include Payment and Performance Bond	n	%	n									1% PPBR	
<b>Price</b>														
Price:														
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.														
Company:														
Individual:														
Title:														
Signature:														
Date:														
<b>AP-1 Statement of Work</b>				<b>AIW</b>	<b>B1</b>	<b>Baltimore Fabrication</b>	<b>B1</b>	<b>Crystal Steel Fab</b>	<b>B1</b>	<b>Iron Fabrication Services</b>	<b>B1</b>	<b>Gray Wolf(ONLY WITH STR S</b>	<b>B1</b>	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		0		0		0		Joe Moody		
05 Misc Metals				-		-		-		-		(678) 821-7056		
1/12/2022, Updated 1/26/2022, Updated 2/15/2022				y/n	Sub									
<b>A. General</b>														
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y				y	SEE PROP QUALS			y			y	see prop for quals
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 05 Misc Metals scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y				y	SEE PROP QUALS			y			y	see prop for quals
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y				y	SEE PROP QUALS			y			y	see prop for quals
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y								y				
<b>B. Documents</b>														
	The Work shall consist of 05 Misc Metals Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:													
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021	y								y				y
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y								y				y
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y								y				y
	4 Phase IV Submission for GMP Specifications dated 12/21/2021	y								y				y
	5 RFI Log dated 2022 Jan 07 and 2022 Jan 24	y								y				y
	6 Specifications	y								y				y
	- Division 00 - Procurement and Contracting Requirements (Complete)	y					as applies			y				y
	- Division 01 - General Requirements (Complete)	y					as applies			y				y
	051200 - Structural Steel (as relates)	y								y				y
	- 055000 - Miscellaneous Metal	y					as applies			y				y
	- 055100 - Metal Stairs	y					as applies			y				y
	- 059000 Barrier Cable System Applications	y								y				y
	7 Addendum 1 - Revised Civil Drawings	y								y				y
<b>C. Inclusions</b>														
<b>STANDARD REQUIREMENTS</b>														
	1 Includes Hoisting/Rigging/Scaffolding Required for your Work	y								y				y
	2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y								y				y
	3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y								y				y
	4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y								y				y
	5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y				n	excludes blocking and fixtures			y				y
	6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y				n	excludes cutting, sleeving, firestopping			y				y
	7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y								y				n
	8 All work performed shall be per governing codes	y								y				ok
	9 Include cost of all surveying and layout (baseline survey to be provided by others)	y				y	as qualified			y				TBD
	10 Include field measurement as required prior to fabrications	y								y				n
	<b>SPECIFIC SCOPE ITEMS</b>	y								y				
	11 Provide all miscellaneous metals as noted on the drawings or noted in the specifications. All metalwork including ornamental metal work and except structural steel is by this Subcontractor.	y								y				y
														per prop
														with qualifications



12	Provide all miscellaneous metals requirements for masonry listed in the structural steel specification, including channel slot receivers, brick angles, strap anchors.	y		n	excludes channel slot receivers	\$10,000	Turner	n		\$10,000	Turner	y			y		n	excluded	\$10,000	Turner		
13	Provide steel support for mockup called for in spec section 014000-1.7. Mockup will be 10' x 10' composite mockup of all components of the building exterior, including a brick masonry panel with corner, and will NOT be an in-situ mockup.	y						n		\$20,000	Turner	y			y		n	not included	\$20,000	Turner		
14	Participate in preconstruction meetings as required	y						y				y			y		y					
15	Provide elevator hoist beams for each elevator in both buildings.	y						y				y			y		y					
16	Provide elevator rail supports for all elevators (ref detail 13/S3-103 and 5/PG-A5-250 ans sim).	y						y				n	add plates and rail supports (Prop exl 37 & 59)	\$11,100	CSF	y		y				
17	Provide elevator sills angles where required. (ref detail 12/S3-102 and 6 & 15 /PG-A5-250 and sim).	y						y				y			y		y					
18	Provide elevator pit ladders and clips, pit grates and grate angles/ embeds, for a complete system.	y						y				y			y		y					
19	Provide all steel for all stairs - columns, beams, stringers, landings, tread pans, nosings, handrails, gates, etc.	y		n	excludes columns, beams, gates. Add for gates	\$5,000	Turner	y				y			y		y					
20	Provide typical stair landing support as shown in detail 7/S3-103	y						y				y			y		y					
21	Include design and engineering for all stairs and handrails. Include stamp from PE registered in Virginia	y						y				y			y		y					
22	Provide galvanized steel grate stair, guard, and handrail over duct on roof (ref A1-341, A5-151).	y						y				y			y		y					
23	Provide the stainless steel staircases for Stair 1 and Stair 2 as shown and noted in detail 6/A5-101 and A5-102, complete, including mesh infill and handrail brackets. PROVIDE STAINLESS STEEL TOPRAIL and stainless steel brackets for wood handrail. Wood handrails are by Millwork Subcontractor. Provide alternate ADD to provide handrail itself also in stainless steel. Coordinate requirements for handrail and top rail brackets with Millwork Subcontractor.	y						y				y			y		n	railing only in SST. See quote. is everything from above stringer SST - are posts etc SST? Mesh?				
24	Hot dip galvanize all steel members noted as such (all exposed exterior steel)	y						y				y			y		y					
25	Provide steel for roof drain supports / roof openings as required	y		n	PG only	\$10,000	Turner	n		\$10,000	Turner	n	didn't find	\$10,000	Turner	y		n	IN STR STL SCOPE			
26	Provide support steel and frames for openings as called out in details 6, and 11 on dwg S3-103. Note that not all openings are shown on the structural dwgs. Include all openings also shown on MEP dwgs, including: 2nd floor slab: 1.34x12 duct up at col line E-7 2.16x12 duct up at col line E-4 3.10x10 supply air up at E-4 4.6x6 exhaust duct up at C-4 5.16x16 Return air duct up at C-4 Third floor slab: 1.Opening for (7) 8" vehicle exhaust risers at col line D Roof deck: 1.14x14 duct at col line D-4 2.12x12 duct at col line D-7 3.Opening for (7) 8" vehicle exhaust risers at col line D.	y		n	PG	\$30,000	CSF	n		\$30,000	CSF	n	incl'd in their structural bid	\$30,000	CSF	y		N	where shown on Struct Dwgs	\$30,000	CSF	
27	Provide the misc metals for Chassis Wash Pit, including embed plate, steel members, bar grating, as noted on dwg S1-101 and 10/S2-102. Provide, per detail 9/S2-102, and RFI-010 response, a vehicle-rated grating as the cover plate galvanized continuous embedded angle iron on each side of the trench for holding grating.	y						y				y			y		n	in str stl scope	ok			
28	Provide the bent plates and slotted channels referenced in for kickers for bracing wall at windows and brick angles (ref detail 1 & 2/S3-301, 6/S3-302 and sim). Provide the brick angles, kickers, bent plates, u-channel and slotted plates and miscellaneous metal work (ref details on S3-301 and sim). Light gauge studs are by Drywall Subcontractor	y						n		\$50,000		n	incl'd in their structural bid	\$50,000	CSF	y		n	in str stl scope	ok		
29	Provide the metal components of the Parking Garage Canopy, including the HSS framing and, galvanized embed, stiffeners, posts, c-channels, plates, and framing as shown in detail 1/PG-A3-301. Exclude metal lettering and metal panel work. Also note that the canopy members shown on the S1-102 dwgs will be provided by the Structural Steel Subcontractor.	y		n	steel signage support only- deck by others	deck by Struct	n		\$60,000			y			y		n	in str stl scope	ok			
30	Provide the metal components of the OMF Building Canopies, including the HSS framing and, galvanized embed, stiffeners, posts, channels, plates, and framing. Referencing detail A4/A3-301, provide the painted galv post and continuous channel. The anodized aluminum lettering and back side anodized aluminum stiffener and neoprene pad are by Signage Subcontractor.	y		n	steel signage support only- deck by others	deck by Struct	n		\$60,000	Turner		y			y		n	excluded	\$60,000	Turner		
31	Provide the removable perforated grille plate at the canopy (ref detail A4/A3-301)	y		y				n		\$4,000	Turner	y			n		\$4,000	Turner	n	exclude	\$4,000	Turner
32	Provide the steel plate with structural thermal break material and clip angle for attachment of aluminum tube per detail 5/A3-002 labelled "Perforated Guard/Metal Screen". Note that the aluminum tube and the screen will be furnished and installed by the Metal Panel Subcontractor.	y		y				n		\$25,000	Turner	y			n		\$25,000	Turner	TBD		\$25,000	Turner
33	Furnish steel loose lintels for CMU contractor as required. Ref PG dwg S3-102 for parking garage and assume similar for OMF building. Include hang plate as required per Parking Garage dwg detail 6/S3-102.	y		y				y				n		\$38,000	IFS	n	provided for 10 locations	\$38,000	IFS	n	In str stl scope	ok
34	Provide all brick shelf angles / relieving angles as required. (ref 9 & 2 & 3 /A3-002 and sim), including thermally broken bent plate system where called for (ref 2/A3-002). Provide per detail for typical brick relieving angle, including 8" tall mortar net, thermally broken knife plate relieving angle, attachment back to structure, weeps, insect screen	y		y	excludes mortar net weeps, insect screen			n	PRICE DUE FEB 10	\$75,000	Turner	y			y		n	With struct	\$75,000	Turner		





71	COVID TESTING POLICY	y			y	no cost per AIW						sent follow-up email 2/22					n	checking with erector	
72	Provide tube steel posts and supports for Overhead doors- OMF and PG (12 doors in OMA perOHD schedule A8-201. 4 doors in PG)	y		From Budget	n	\$51,184	Turner	n	\$51,184	Turner	n		CSF	n	\$51,184	Turner			
73	MOVE Crystal Steel PG struct steel costs from MISC METALS to Struct. Steel	y									n	added savings when they changed erectors	(\$134,200)						
74	PROVIDE STEEL OUTRIGGER FOR METAL PANELS PER ASSEMBLY DETAIL 10/A3-001	y																	
75	PROVIDE LATERAL BRACE AND CLIP ANGLE PER BRICK ASSEMBLY DETAIL 2/A3-001	y																	
76	Confirm all steel and misc metals listed in Checklist are included	y																	
77	Treat stringer for Stainless Steel Staircase as AESS	y									n		[\$7,800]	CSF					
78	PROVIDE THE STEEL IN WASH BAY AS GALVANIZED (Requested by S.S.)	y										Requested from Crystal at Bid Review							
79	For the area of the radiant heating system (all maintenance bays and wash bay- see dwg M1-111), provide your work such that the slab is not penetrated after it is poured (ie, use sleeves or cast materials into slab, etc).	y																	
<b>D. Exclusions</b>																			
2	Roof scuppers and downspouts are by the Roofing Subcontractor	n			n						n							n	
3	Rooftop Duct Enclosure is with Drywall Subcontractor	n			n						n							n	
4	RTU metal panel screenwall (Ref A1-341) panels are by Metal Panel Subcontractor	n			n						n							n	
5	Trench drain (detail /S2-102) is by Plumbing Subcontractor (VERIFY WITH GLO)	n			n						n							n	
6	Bodi Mullion Mate bent aluminium enclosures are by Drywall Subcontractor (ref detail 2/A4/231) (VERIFY)	n			n						n							n	
7	W12 beams for crane support (ref S1-102 and note 12/S1-102) are by Struct Steel Subcontractor	n			n						n							n	
7	Referencing detail A4/A3-301, the anodized aluminum lettering and back side anodized aluminum stiffener and neoprene pad are by Signage Subcontractor.	n			n						n							n	
new	CMU clip angles are to be provided by Mason as PTA-422 clips. Welding clip to steel is by this subcontractor	n			n						n							n	
new	Detail 11/A3-002- Steel reinforced mullion for mounting decorative panel to curtainwall system is by Glazing Manufacturer/Curtainwall Subcontractor	n			n						n							n	
<b>E. Special Trade Requirements</b>																			
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%			30%													TBD
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines	y																	y
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y																	y
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y			n													n	TBD
b	Office Policy   Or Project Specific	y																n	Valid until 2/25/22
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y																	
<b>F. Schedule</b>																			
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																			
1	Review and comply with Turner Schedule (AP-6)	y																	
2	Duration for submittals and shop drawings, in working days	?				OMF 100days PG 20 days						180 days							
3	Duration for fabrication and delivery, in working days	?				OMF 90 days, PG 70 days						100 days							
4	Installation duration, in working days	?				OMF 135 days, PG 105 days						200 days							
NEW - Dec 2022 (start of struct steel) to Nov 2023 (end of MP install)																			
<b>Allowances</b>																			
A	1 Misc Metals Allowance	y			n	\$50,000		n	\$50,000		n	\$50,000		n	\$50,000		N	\$50,000	
A	2 Header Detail for overtop of curtainwall/storefront at south elevation (RFI-216)	y			N	\$85,000		N	\$85,000		N	\$85,000		N	\$85,000		N	\$85,000	
A	3 Modification of bracket detail for detail A4/PG-A3-202 and 6/PG-A3-201 per comments from MP vendor that bracket design is causing them concern (requests embedment and may need standoff from wall)	y			n	\$50,000		n	\$50,000		n	\$50,000		n	\$50,000		n	\$50,000	
	4 Loose Lintels as required				n	\$30,000		n	\$30,000		n	\$30,000		n	\$30,000		n	\$30,000	
<b>G. Alternates</b>																			
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.																			
1	100% Payment & Performance Bonds on Turner Forms																		1 % PPBR
2	Provide add alternate for onsite WC and GL insurance																		TBD
3	Provide deduct to provide stair 1 & 2 structure in standard steel in lieu of stainless steel. Mesh infill will remain stainless steel																		(\$300,000)
4	Deduct to not provide the vehicular barrier cable in the Parking Garage (ref PG-A1-311)																	n	
5	Delete masonry clip angles at top of masonry wall (if provided by mason)																	n	
NEW	Provide the roof screenwall metal panels RS-1, as Morin B-36 with 50% perforation (ref dwg A2-101)																	n	
NEW	Delete handrail along soldier pile retaining wall if fence (by others) is provided.																	n	
NEW	Provide deduct for top rail of Stair 1 and 2 to be wood as specified in lieu of stainless steel																	n	
NEW	Deduct for Elevator ladders and hoist beams (divider beams and rail support remains INCLUDED)																	n	
NEW	Provide for the Precase and Screen Steel Connection embeds to concrete at Parking Garage (if not by Precast/Screen Steel)										n	\$161,895	CSF						
<b>H. Unit Prices</b>																			





**06 Millwork**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/19/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Tucker Winfrey 571-612-9492 twinfrey@tcco.com

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Biltco	BLT	Columbia Woodworking	WC	Fallston Supply, Inc.	FS	Fairfax woodworking	FFWW
Andres Fernandez (240) 380-2740 <a href="mailto:afernandezcuba@biltco-us.com">afernandezcuba@biltco-us.com</a>		Andy Zagon 202-526-2387 301-370-8383 <a href="mailto:andyz@cwwcorp.com">andyz@cwwcorp.com</a>		Scott Nicklas 443-417-2424 <a href="mailto:scott@fallstonsupply.com">scott@fallstonsupply.com</a>		Eugene Kim 703-339-9570 <a href="mailto:eyk@fairfaxwoodworking.com">eyk@fairfaxwoodworking.com</a>	
01/27/22		01/27/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 217,150		\$ 180,358		\$ 203,800		\$ 209,910	
\$ 5,400 2.5%		\$ 44,400 24.6%		\$ 20,400 10.0%		\$ 10,000 4.8%	
\$ 222,550 1%		\$ 224,758 2%		\$ 224,200 2%		\$ 219,910	
Deducted integral sinks		Does not include integral sinks		Deducted integral sinks		Revised quote with no integral sinks	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				n		\$5,000		Turner				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y				n		\$10,000		Turner				y			
	5	Breakout Cost for Full Time Safety Manager	y		y				y								y			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y								y			
	7	Include involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y								y			
<b>Bid Acknowledgements</b>																				
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y					y			y			
<b>Contract Attachments</b>																				
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y					y			y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y					y			y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y					y			y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y					y			y			
	6	AP-5 BIM Requirements	y		y				y					y			y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y					y			y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y					y			y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y					y			y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		[\$3,500]		y		[\$2,100]			y	inc	[\$5,035]		y	inc	[\$3,237]
	11	Bid valid for 90 days	y		y	30 days			y					y			y			
	12	Retainage: 5%	y		y				y					y			y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y					y			y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y					y			y			
	15	Arlington Contractor Covid Policy	y		y				y	n/a				y	n/a		y	n/a		
<b>Key Quantities and Breakouts (Populate Below)</b>																				
	1	Total Manhours	#		#	288			#				#	360						
	2	Peak # of Workers anticipated	#		#				#				#	4						
	3	Provide breakout of escalation costs	#		#				#				#							
	4	LF of full height PLAM pantry cabinets	#		#				#				#							
	5	LF of PLAM base cabinets	#		#	79			#				#							
	6	LF of solid surface countertops	#		#	176			#				#	204						
	7	Count of intergral sinks	#		#	12			#				#							
	8	LF of freestanding reception desk	#		#				#				#	16						
	9	LF of breakroom bar(s)	#		#	40			#				#							
	10	LF of upper cabinets	#		#	34			#				#							
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																				
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?				?	Company workforce			?							
	2	Where do the materials come from?	?		?				?				?							
	3	What is lead time for materials?	?		?	1-2 weeks			?				?	6-8 weeks						
	4	Identify Major Subcontractors	?		?				?				?							
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?				?				?	N/a						
<b>Prequalification</b>																				
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?				?				?							
	2	Turner Prequalification Number:	?		?				?				?							
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?				?				?							
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?		?				?				?							
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?				?				?							



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR _____	?	1.32			?	0.89			?	1.12			?	0.79		
	7	Include Payment and Performance Bond	n	_____ %	n	2.5%			n	1%			n	2%			n	1.75%		
AP-1 Statement of Work																				
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF																				
06 Millwork																				
01/19/22																				
			y/n	Sub																
<b>A. General</b>																				
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y				y				y				y			
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 06 Millwork scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		y				y				y				y			
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		y				y				y				y			
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y				y				y				y			
<b>B. Documents</b>																				
		The Work shall consist of 06 Millwork Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																		
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y				y				y				y			
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y				y				y				y			
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y				y				y				y			
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y				y				y				y			
	5	RFI Log dated - TBD	y		y				y				y				y			
	6	Specifications	y		y				y				y				y			
		- Division 00 - Procurement and Contracting Requirements (Complete)	y		y				y				y				y			
		- Division 01 - General Requirements (Complete)	y		y				y				y				y			
		061000 - Rough Carpentry (As Applicable)	y		y				y				y				y			
		- 064219 - Plastic Laminate Faced Wood Paneling (Complete)	y		y				y				y				y			
		- 123600 - Countertops (As Applicable)	y		y				y				y				y			
<b>C. Inclusions</b>																				
<b>STANDARD REQUIREMENTS</b>																				
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y				y				y				y			
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y				y				y				y			
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y				y				y				y			
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y				y				y				y			
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y				y				y				y			
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y				y				y				y			
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		y				y				y				y			
	8	All work performed shall be per governing codes	y		y				y				y				y			
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y				y				y				y			
	10	Include field measurement as required prior to fabrications	y		y				y				y				y			
<b>SPECIFIC SCOPE ITEMS</b>																				
	11	Provide all hardware, accessories, and miscellaneous materials associated with millwork.	y		y				y				y				y			
	12	Provide all countertop supports, trim, and out-of wall blocking for your work	y		y				y				y				y			
	13	Provide all bases/skirts and scribe cabinets to floor	y		y				y				y				y			
	14	Provide all end panels and filler panels for cabinetry	y		y				y				y				y			
	15	<del>Provide caulking and sealants at fire-rated partitions and assemblies</del>	n		n				n				n				n			
	16	Provide solid surface countertops and Integral Lavatory Sink Bowls where shown. Include back & side splashes, and apron/ front edge.	y		y								y	see email						
	17	Coordinate with electrical what is required for installation of undercounter lighting	y		y								y				y			
	18	Coordinate with Drywall what in wall blocking is required with your trade	y		y								y				y			
	19	Provide caulking of solid surface counters to adjacent	y		y								y				y			
	20	Provide caulking of millwork to millwork and millwork to adjacent	y		y								y				y			



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	21	Provide wooden handrail and top rail at each staircase as shown on the contract documents see detail 6/A5-101 for reference	y		y		[39000]	BLT	n		\$20,900	FS	y	Breakout provided over the phone	[20900]	FS	y			
	22	Provide Solid surface windowsills as outlined in the contract document	y		y		[18000]	BLT	n		\$19,000	FS	y	Breakout provided over the phone	[19000]	FS	y			
	23	Provide the following items as broken out by room	y		y				y				y				y			
	24	Room 116 Manuals Library: SS counters, PLAM base and upper cabinets	y		y		[9800]	BLT	y				y				y			
	25	Room 106 Restroom: SS counter w/ integral sink	y		y		[1900]	BLT	y				y				y			
	26	Room 100-B Lobby: Uniform Storage Shelving	y		y		[20000]	BLT	y				y				y			
	27	Room 122 Parts Clerk: PLAM base cabinets, Stainless Steel countertops, transaction counter	y		n	will not carry sstl counter	\$10,000	Turner	n	will not carry sstl counter	\$10,000	Turner	n	will not carry sstl counter	\$10,000	Turner	n	will not carry sstl counter	\$10,000	Turner
	28	Room 208-A Women's Restroom/Locker Room: SS counter w/ (3) Integral sinks and 4" integral backsplash	y		y		[5100]	BLT	y				y				y			
	29	Room 208-B Men's Restroom/Locker Room: SS counter w/ (3) Integral sinks and 4" integral backsplash	y		y		[5100]	BLT	y				y				y			
	30	Room 205 Breakroom: SS counters, PLAM base and upper cabinets, Island, and break room counter	y		y		[29000]	BLT	y				y				y			
	31	Room 304-A, 304-B, 324-A, 324-B: SS countertop w/ single integral sink and 4" integral backsplash	y		y		[10100]	BLT	y				y				y			
	32	Room 334-A Women's Restroom/Locker Room: SS counter w/ (3) Integral sinks and 4" integral backsplash	y		y		[6400]	BLT	y				y				y			
	33	Room 334-B Men's Restroom/Locker Room: SS counter w/ (3) Integral sinks and 4" integral backsplash	y		y		[6400]	BLT	y				y				y			
	34	Room 303 Pantry/Break Room: SS counters, PLAM base and upper cabinets	n		n				y		(\$5,500)	WC	n				n			
	35	Room 302 Reception/SEC: Receptionist desk	y		y		[21000]	BLT	y				y				y			
	36	Room 345 Wellness Room: SS counter w/ PLAM base cabinets	y		y		[2500]	BLT	y				y				y			
	37	Room 325 Break Room: SS counter w/ PLAM base cabinets	y		y		[5500]	BLT	y				y				y			
	38	Room 329-A Dispatch Vestibule: SS countertop	y		y		[21000]	BLT	y				y				y			
	39	Room 333 pantry: SS countertops, PLAM base and upper cabinets, pantry island (base cabinets and countertop), operator pantry counter	y		y		[8500]	BLT	y				y				y			
	40	Room 320-B Mailboxes: 1/A6-102 Mailbox cabinets, and SS countertops	y		y		[8500]	BLT	y				y	Breakout provided over the phone	[8100]	FS	y			
<b>D. Exclusions</b>																				
	1	Provide under mounted sinks w/ plumbing	n		n				n				n				n			
	2	Provide in wall blocking w/ Drywall	n		n				n				n				n			
	3	Provide undercounter lighting w/ Electrical (reference 2/A6-101)	n		n				n				n				n			
	4	Provide stainless steel countertops w/ misc metal	n		n				n				n				n			
<b>E. Special Trade Requirements</b>																				
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#		___%				#				#	0%						
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y						y				y				y			
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y						y				y				y			
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y						n	"We can offer \$1 million per occurrence/\$2 million aggregate/\$5 million umbrella"			y				y			
	b	Office Policy [ Or Project Specific)	y						y				y				y			
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y						y				y				y			
<b>F. Schedule</b>																				
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																		
	1	Review and comply with Turner Schedule (AP-6)	y																	
	2	Duration for submittals and shop drawings, in working days	?			1-2 Weeks											30			
	3	Duration for fabrication and delivery, in working days	?			2-3 Weeks											40			
	4	Installation duration, in working days	?			2-4 Weeks											23			
<b>G. Alternates</b>																				
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein.																		
	1	100% Payment & Performance Bonds on Turner Forms	y										y	2%						
	2	Provide add alternate for onsite WC and GL insurance	y										n							



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug												
	<b>H.</b>	<b>Unit Prices</b>																			
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.																			
	1																				
	2																				
	3																				



**07 Air Barrier**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Rachael Sampson, phone: 571-512-2470 email: rsampson@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Baltimore Waterproofing	BW	Cameron Building Envelope Specialists	CB	Forsythe	FI	Royals Commercial	RC
John Dean 410-238-1533		Leon Mullis 843-436-4527 757-831-1865		Bob Hudson 804-238-2043		Jack Royals 605-877-2265 <a href="mailto:jroyals@royalscommercial.com">jroyals@royalscommercial.com</a>	
02/02/22		01/27/22		02/01/22		02/08/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 150,930		\$ 110,370		\$ 172,672		\$ 118,000	
\$ 11,000 7.3%		\$ 16,000 14.5%		\$ 11,000 6.4%		\$ 10,000 8.5%	
<b>\$ 161,930 28%</b>		<b>\$ 126,370</b>		<b>\$ 183,672 45%</b>		<b>\$ 128,000 1%</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug				
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
1		Turner Construction Company's Environmental Health and Safety Program	y		y				y				y							
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y							
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y							
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of per > 2 weeks.	y		n				y				n		n/a					
5		Breakout Cost for Full Time Safety Manager	y		n	N/A			y				y							
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y							
7		Include Involvement with all Building L.I.F.E requirements ( Including Daily Muster & Stretch & Flex)	y		y				y				y							
<b>Bid Acknowledgements</b>																				
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				n							
<b>Contract Attachments</b>																				
2		AP-1 Statement of Work dated 1/12/2022	y		y				y				y							
3		AP-2 Documents List dated 10/22/2021	y		y				y				y							
4		AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y							
5		AP-4 Logistics Plan dated 12/22/2021	y		y				y				y							
6		AP-5 BIM Requirements	y		y				y				y							
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y							
8		AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y							
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC ar GL as an add alternate. Include all other applicable insurance	y		y				y				y							
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y							
11		Bid valid for 90 days	y		y				n	30 days			n	30 days						
12		Retainage: 5%	y		y				y				y							
13		Liquidated Damages \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y				y							
14		LEED: LEED Silver. Project is striving for minimal environmental impact	y		y				y				y							
<b>Key Quantities and Breakouts (Populate Below)</b>																				
1		Total Manhours	#		#	1250 hours							#	450						
2		Peak # of Workers anticipated	#		#	4 workers							#	6-8						
3		Provide breakout of escalation costs	#		#								#	unknown			\$6,200			
5		Parking Garage Air Vapor Barrier - not req'd per RFI #107	n		n	0 sf							#	400						
6		Main Building Air Vapor Barrier	#		#	25,155 including 5,911 of detailing							#	30,000			23,900			
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																				
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	company			?	company workforce			?	open			?	company		
2		Where do the materials come from?	?		?	distributor			?	we stock			?	US			?	warehouse		
3		What is lead time for materials?	?		?	2 weeks			?	we stock			?	1-2 months			?	none		
4		Identify Major Subcontractors	?		?	no			?	n/a			?				?	n/a		
5		Provide ___% UBE (Underutilized Business Enterprise) participation. There is <b>30% BU</b> UBE Participation Goal	?		?	0%			?	n/a			?	8a and SWAM			?	0%		
<b>Pregualification</b>																				
1		Current Pregualification Questionnaire on file or Submitted at time of Bid	?		?	yes														
2		Turner Pregualification Number:	?																	
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?						?	0.88			?	.81						
6		Provide Payment and Performance Bond Rate [Provide Rate: %]	?		?	2.00%			?	1.50%			?	3.00%			?	1.50%		
7		Include Payment and Performance Bond	n		n				n											
<b>AP-1 Statement of Work</b>																				
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF					Baltimore Waterproofing B1				Cameron Building Envelope Spec B1				Forsythe B1				Royals Commercial B1			
07 Air Barrier					0				0				0				0			
01/12/22					-				-				-				-			
A. General																				
		The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y				y				y				y			
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 07 Air Barrier scope defined in this Statement of Work and as shown or described in the Contract Documents.	y		y				y				y				y			



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		y				y				y								
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y				y				y								
<b>B. Documents</b>																					
		The Work shall consist of 07 Air Barrier Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:	y		y				y				y								
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y				y				y								
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y				y				y								
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y				y				y								
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y				y				y								
	5	RFI Log dated - TBD	y		y				y				y								
	6	Specifications	y		y				y				y								
		- Division 00 - Procurement and Contracting Requirements (Complete)	y		y				y				y								
		- Division 01 - General Requirements (Complete)	y		y				y				y								
		- 014000 - Quality Requirements (as it applies to this scope)	y		y				y				y								
		- 019115 - Facility Enclosure Commissioning	y		y				y				y								
		- 072600 - Vapor Retarders	y		y				y				y								
		- 076200 - Sheet Metal Flashing and Trim (as it applies to this scope)	y		n		n/a		n		n/a		n		n/a		n		n/a		n/a
<b>C. Inclusions</b>																					
<b>STANDARD REQUIREMENTS</b>																					
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y				y				y								
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y				y				y								
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y				y				y								
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y				y				y								
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		n		n/a		y				y								
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		n		n/a		y				y								
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could viewed in the field	y		n		n/a		y				y				n		n/a		
	8	All work performed shall be per governing codes	y		y				y				y								
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		n		n/a		y				y								
	10	Include field measurement as required prior to fabrications	y		y				y				y								
<b>SPECIFIC SCOPE ITEMS</b>																					
	11	Provide shop drawings addressing special joint conditions.	y		y		no project specific/CAD shop drawings		y				y								
	12	Provide all components, accessories, flashings and trims required for a complete airtight barrier made of material relatively water vapor impermeable to the degree specified.	y		y				y				y								
	13	Throughout the design, fabrication, and installation of this work, coordinate adjacent, penetrations, openings, terminations, intersections, or interactions of work by other trades.	y		y				y				y								
	14	Provide a 5' x 5' mockup to displaying the following conditions; interior & exterior corners, penetrations, transitions and terminations.	y		y				y				y								
	15	Provide all accessories as required to provide a complete install per manufacturer's instructions.	y		y				y				y								
	16	Prior to the start of work, examine substrate for damage, remove projections (including extruding fasteners) as as any loose and foreign matter that might interfere with proper installation.	y		y		"remove projections including extruding fasteners" - no. minor by broom		y				y								
	17	Clean and prime substrate per manufacturer's instructions to accept adhesives and sealants.	y		y		minor		y				y								
	18	Seal seams and joints as well as provide flashing as required per manufacturer's instructions at all penetrations and openings, including but not limited to MEF	y		y		to be in place before applicator		y				y								
	19	Schedule and perform manufacturer's inspections as required of installed work for approval prior to proceed with work.	y		y				y				y								
	20	Provide Vapor Barrier to surfaces where indicated including, but not limited to masonry, gypsum board, etc.	y		y				y				y								
	21	Lap and seal Vapor Barrier where transitions occur per manufacturer's instructions	y		y				y				y								
	22	Include and plan for multiple mobilizations to complete this scope of work.	y		y				y				y								
	23	Coordinate and provide Vapor Barrier for Mock-Up as required per spec 074264 Metal Composite Material W Panels and 084413 Glazed and Aluminum Curtainwalls.	y		y				y				y				n		tbd		
	24	This scope is inclusive to the responsibilities, participation, testing and documentation required per Specification Section 019115 Facility Enclosure Commissioning.	y		y		3rd party agency by others		y				y								
	25	Repair/ patch any areas that are damaged or have failed inspection.	y		y		damage by other trades done on T&M		y				y								
	26	Confirm acceptance of ART Covid Policy dated 8.27.21	y		n		\$1,000	BW	n		\$1,000	BW	n		\$1,000	BW	y		all vaccinatec		
	27	Provide low temp vapor barrier	y		n		\$5,000	Turner	n												
<b>D. Exclusions</b>																					
	1	Flashing that is considered to be part of an exterior system - by Exterior Trades	n		n				n				n								
	2	Roof assembly vapor retarder - by Roofing	n		n				n				n								
	3	Liquid applied moisture barrier at top of foundation wall - by Waterproofing	n		n				n				n								
	4	Underslab Vapor Retarder - by Concrete	n		n				n				n								
	5	Provide metal fabric with end dam and stainless steel drip with hemmed edge as required per manufacture instructions.	n		n				n				n								
<b>E. Special Trade Requirements</b>																					
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment include within bid for prime and lower tiers	#		%		0%		#		0%		#		0%		#		0%		



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y				y				y				y			
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y				y				y				y			
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y				y				y				y			
	b	Office Policy [ Or Project Specific]	y		y				y				y				y			
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		y				n		n/a		y				y			
	4	Includes escalation of labor and material costs	y		y				n		n/a		y				y			
<b>F. Schedule</b>																				
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it presented in the Project Schedule																		
	1	Review and comply with Turner Schedule (AP-6)	y		y				y				y							
	2	Duration for submittals and shop drawings, in working days	?		?	3 weeks			?	couple of days			?	2 weeks						
	3	Duration for fabrication and delivery, in working days	?		?	2 weeks			?	couple of days			?	n/a						
	4	Installation duration, in working days	?		?	60 days			?	will meet needs of schedule			?	tbd						
<b>Allowances</b>																				
A	1	Provide repare of over exposed air barrier	y/n		n		\$10,000	Turner	n		\$10,000	Turner	n		\$10,000	Turner	n		\$10,000	Turner
A	2																			
A	3																			
<b>G. Alternates</b>																				
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirm by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herei																		
	1	100% Payment & Performance Bonds on Turner Form	y		y	add 2%			y											
	2	Provide add alternate for onsite WC and GL insuranc	y		y	add \$2540			y	\$2,500										
	3	Provide pricing for additional mobilizatio	y		y	\$3,500			y											
<b>H. Unit Prices</b>																				
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price f changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price																		
	1																			
	2																			
	3																			



**07 Fireproofing**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Rachael Sampson, phone: 571-512-2470 email: rsampson@tcco.com

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Diamond Engineering DE	Rolling Plains Construction RP	WW Nash Construction WW
Reid Sassman 571-765-0950 <a href="mailto:reid@decfp.com">reid@decfp.com</a>	Steve Tomkins 303-659-7861	Sandy Davis 804-788-9122 804-955-8292 <a href="mailto:sandy@wnnash.com">sandy@wnnash.com</a>
01/27/22	02/08/22	01/28/22
<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>
\$ 281,000	\$ 244,450	\$ 202,000
\$ 90,640 32.3%	\$ 91,100 37.3%	\$ 69,100 34.2%
\$ 371,640 87%	\$ 335,550 69%	\$ 271,100 37%
CAFCO 400	CAFCO Blaze Shield II - Not Accepted per RFI 117	CAFCO 400

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
Turner Construction Company's Environmental Health and Safety Program																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				y				y			
	5	Breakout Cost for Full Time Safety Manager	y		n				y				na			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		n				y				y			
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y						y				y			
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y						y				y			
	3	AP-2 Documents List dated 10/22/2021	y						y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y						y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y						y				y			
	6	AP-5 BIM Requirements	y						y				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y						y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y						n		(\$1,800)	RP	y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			WW
	11	Bid valid for 90 days	y		y				y		spray foam 30		y			
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y				y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y						y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#		#	800 hr			#	1,730			#	1,580		
	2	Peak # of Workers anticipated	#		#	5			#	5			#	6		
	3	Provide breakout of escalation costs	#		#	not included			#	\$11,800			#			
	4		#													
	5	Applied Fireproofing	sf		sf	2000 bags							sf	84,225		
	6	Intumescent Fireproofing	sf		sf	20 buckets			sf	987			sf	4,625		
	7															
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	company workforce			?				?	company workforce		
	2	Where do the materials come from?	?		?	Isolatek International			?				?	US		
	3	What is lead time for materials?	?		?	2 weeks			?				?	2 weeks		
	4	Identify Major Subcontractors	?		?	none			?				?	NA		
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?	none			?				?	NA		
<b>Prequalification</b>																
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?										?	Yes		
	2	Turner Prequalification Number:	?										?			
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?										?	Yes		
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?										?	Yes		
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	1.2			?	0.78			?	\$1		
	6	Provide Payment and Performance Bond Rate [Provide Rate: ___%]	?		?	4.00%			?	1.80%			?	3.00%		
	7	Include Payment and Performance Bond	n		n											

AP-1 Statement of Work	Diamond Engineering B1	Rolling Plains Constructio B1	WW Nash Construction B1
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF 07 Fireproofing	Reid Sassman 571-765-0950	Steve Tomkins 303-659-7861	Sandy Davis 804-788-9122



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	01/12/22		y/n	Sub													
<b>A. General</b>																	
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y				y				y			
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 07 Fireproofing scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y				y				y			
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y				y				y			
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y				y				y			
<b>B. Documents</b>																	
		The Work shall consist of 07 Fireproofing Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:															
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y				y				y			
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y				y				y			
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y				y				y			
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y				y				y			
	5	RFI Log dated - TBD	y							y				y			
	6	Specifications	y							y				y			
		- Division 00 - Procurement and Contracting Requirements (Complete)	y							y				y			
		- Division 01 - General Requirements (Complete)	y							y				y			
		- 014000 - Quality Requirements (as it applies to this scope)	y							y				y			
		- 051200 - Structural Steel Framing (as it applies to this scope)	y							y				y			
		- 053100 - Steel Decking (as it applies to this scope)	y							y				y			
		- 070533 - Fire and Smoke Assembly Identification (as it applies to this scope)	y							y				y			
		- 078100 - Applied Fireproofing	y							y				y			
		- 078123 - Intumescent Mastic Fireproofing	y							y				y			
		- 078400 - Firestopping	y							y				y			
		- 099123 - Interior Painting	y							y				y			
<b>C. Inclusions</b>																	
<b>STANDARD REQUIREMENTS</b>																	
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			y				y				y			
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y				y				y			
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			n		n/a		n		n/a		y			
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			n		n/a		y				y			
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			n		n/a		n		n/a		y			
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			n		n/a		n		n/a		y			
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y			n		n/a		y	no site visit			n		n/a	
	8	All work performed shall be per governing codes	y			y				y				y			
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y			y				y				n		n/a	
	10	Include field measurement as required prior to fabrications	y			n		n/a		y				y			
<b>SPECIFIC SCOPE ITEMS</b>																	
	11	Coordinate locations where fireproofing is required with other trades, including but not limited to MEP, structural steel, painting, drywall, etc.	y			y		per NFCA 100		y				y			
	12	Provide Applied Fireproofing where indicated and where steel is not exposed to damage or moisture.	y			y				y				y		VE/see proposal	
	13	Provide Intumescent Mastic Fireproofing where indicated, including but not limited to steel, gypsum board, CMU, etc.	y			y		steel only		y	excl gyp bd, backer rod, etc			y	Steel only		
	14	Provide all accessories required to provide a complete application of fireproofing, including but not limited to; primers, sealants, reinforcement, etc.	y			n		not needed		y	only what is req'd			y			
	15	Apply fireproofing per manufacturer's instructions and to full thickness as required.	y			y				y				y			
	16	When applying fireproofing, provide temporary enclosure to prevent spray from contaminating the air.	y			y				y				y			
	17	Provide protection for work installed by other trades.	y			y		Per NFCA 100		y				y			
	18	Provide ventilation in areas receiving fireproofing, during and 24-hours after application.	y			y		Per NFCA 100		y				y			
	19	Clean any fireproofing on adjacent surfaces not meant to receive fireproofing.	y			y		Per NFCA 100		y				y			



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	20	Provide verification samples for Intumescent Fireproofing not less than 4 inches square on steel substrate as indicated. Samples are to illustrate thickness, color, sheen, and finishes required.	y		y				y				y			
	21	Provide fireproofing to ensure actual thickness, densities, and bond strengths needed to meet requirements for specified rating and requirements of Authorities Having Jurisdiction (AHJ)	y		y				y				y			
	22	Provide fireproofing assemblies as indicated. Reference sheet G2-100.	y		y				y				y			
	23	Provide fire resistance ratings building elements as required by the building code.	y		y				y				y			
	24	Provide fireproofing of metal deck, reference detail A2/A3-901	y		y				y				y			
	25	Provide test reports and certificates as required.	y		n				y				y			
	26	Provide closed cell spray foam	y		n		\$27,640	RP	y				n		\$10,200	WW
	27	Provide warranties as indicated. Warranties to start after date of Substantial Completion.	y		y				y				y			
	28	Confirm acceptance of ART Covid Policy dated 8.27.21	y		y	all vaccinated			n		\$7,900	RP	n		\$900	WW
<b>D. Exclusions</b>																
	1	Firestopping - by Drywall, Joint Sealants and Glass/ Glazing	n		n				n				n			
	2	Painting over fireproofing - by Painting	n		n				n				n			
	3	Final Cleaning by Final Cleaning	n		n				n				n			
	4															
	5															
	6															
	7															
<b>E. Special Trade Requirements</b>																
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%	#	0%			#	0%			#	0%		
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines	y		y				y				y			
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		n				y				n	NA		
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		?				y				y			
	b	Office Policy [ Or Project Specific]	y		n				y				y			
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		n				y				y			
	4	Includes escalation of labor and material costs	y		n				y				y			
<b>F. Schedule</b>																
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.														
	1	Review and comply with Turner Schedule (AP-6)	y		y				y				y			
	2	Duration for submittals and shop drawings, in working days	?		?	10 days			?	15 days			?	5 days		
	3	Duration for fabrication and delivery, in working days	?		?				?	10 days			?	1 day		
	4	Installation duration, in working days	?		?	40 days			?	54 days			?	58 days		
<b>Allowances</b>																
A	1	Provide patching and repair allowance of fireproofing for 10 days.	y/n		y	\$1800/dy	\$18,000	DE	y	\$4000/dy	\$40,000	RP	y	\$1300/dy	\$13,000	WW
A	2	Provide allowance for winter weather provisions to apply fireproofing during winter/ cold for 1 month.	y/n		n	per month	\$45,000	WW	n	per month	\$45,000	WW	y	per month	\$45,000	WW
<b>G. Alternates</b>																
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.														
	1	100% Payment & Performance Bonds on Turner Forms	y						y	1.80%			y			
	2	Provide add alternate for onsite WC and GL insurance	y						y	\$1800/day			y	\$3,500/day		
<b>H. Unit Prices</b>																
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.														
	1	Provide unit cost for patching of fireproofing	y		y				y				y			
	2	Provide pricing for additional mobilization	y		y				y				y			



## 07 Joint Sealants

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/19/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Tucker Winfrey 571-612-9492 twinfrey@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Seal Caulking & Waterproofing	SC&W	Sparkle Painting Company, Inc.	SPC	Forsythe	WCC
Jared Kaufman 301-420-7095 240-687-4182 <a href="mailto:jkaufman@sealcaulking.com">jkaufman@sealcaulking.com</a>		Heather Gornak 703-541-3100 <a href="mailto:estimating@sparklepainting.com">estimating@sparklepainting.com</a>		Bob Hudson (804) 238-2043 <a href="mailto:bob@forsytheinc.net">bob@forsytheinc.net</a>	
01/27/22		01/27/22		02/02/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 99,515		\$ 160,000		\$ 118,932	
\$ 5,500	5.5%	\$ 15,000	9.4%	\$ -	0.0%
<b>\$ 105,015</b>		<b>\$ 175,000</b>	67%	<b>\$ 118,932</b>	13%

A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																	
	1	Turner Construction Company's Environmental Health and Safety Program	y							y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y							y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y							y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y							y				y			
	5	Breakout Cost for Full Time Safety Manager	y							y				y			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y							y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y							y				y			
<b>Bid Acknowledgements</b>																	
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y							y				y			
<b>Contract Attachments</b>																	
	2	AP-1 Statement of Work dated 1/12/2022	y							y				y			
	3	AP-2 Documents List dated 10/22/2021	y							y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y							y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y							y				y			
	6	AP-5 BIM Requirements	y							y				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y							y				y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y							y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances	y							y				y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y							y				y			
	11	Bid valid for 90 days	y							y				y			
	12	Retainage: 5%	y							y				y			
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion and <b>\$712.00 /day</b> for each calendar day beyond Final Project Completion	y							y				y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y							y				y			
	15	Arlington Contractor Covid Policy	y				<b>n</b>	<b>\$3,500</b>	SC&W	<b>n</b>		<b>\$13,000</b>	SPC	y			
<b>Key Quantities and Breakouts (Populate Below)</b>																	
	1	Total Manhours	#														
	2	Peak # of Workers anticipated	#											#	6 workers		
	3	Provide breakout of escalation costs	#														
	4	LF of Caulk Joints	#														
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																	
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?							?				?	open		
	2	Where do the materials come from?	?							?				?	us		



3	What is lead time for materials?	?					?			?	Silicone caulking 1-2 months				
4	Identify Major Subcontractors	?					?			?					
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?					?			?	8A/swam				
<b>Prequalification</b>															
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?					?			?					
2	Turner Prequalification Number:	?					?			?					
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?					?			?					
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?					?			?					
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?					?			?	0.89				
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____	?	1.00		?	1.4		?	0.81				
7	Include Payment and Performance Bond	n	_____%	n	1.50%		n	2%		n	3%				
<b>Price</b>															
Price:															
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal															
Company:															
Individual:															
Title:															
Signature:															
Date:															
<b>AP-1 Statement of Work</b>				<b>Seal Caulking &amp; Waterproof B1</b>				<b>Sparkle Painting Company, I B1</b>				<b>Forsythe B1</b>			
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0				0				0			
07 Joint Sealants				-				-				-			
01/19/22				y/n				Sub							
<b>A. General</b>															
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y					y			y					
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 07 Joint Sealants scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y					y			y					
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y					y			y					
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y					y			y					
<b>B. Documents</b>															
	The Work shall consist of 07 Joint Sealants Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:														
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y								y					
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y								y					
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y								y					
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y								y					
5	RFI Log dated - TBD	y								y					
6	Specifications	y								y					





7	Provide Firestopping/Acoustical caulk of MEP penetrations thru walls and slabs, by MEP	n		n		n		n	
8	Provide caulking interior glass / storefront systems to adjacent, by Interior Glass sub	n		n		n		n	
9	Provide caulking at plumbing fixtures, by Plumber	n		n		n		n	
10	Provide putty pads for in wall junction boxes, by Electrical	n		n		n		n	
12	Provide caulking of painted surfaces to painted Surfaces, by Paint	n		n		n		n	
13	Provide caulking associated with roofing, by Roofing	n		n		n		n	
14	Provide caulking Associated with Waterproofing, by Waterproofing	n		n		n		n	
15	Provide caulking at cast stone sill to exterior masonry w/Masonry	n		n		n	can do incase	y	
16	Provide sealant at precast terrazzo tread	n		n		n		n	
<b>E. Special Trade Requirements</b>									
1	% <b>UBE - Underutilized Business Enterprise</b> (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%						WSBA
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y						y	
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y						y	
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y						y	
b	Office Policy [ Or Project Specific)	y						y	
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y						y	
<b>F. Schedule</b>									
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.								
1	Review and comply with Turner Schedule (AP-6)	y						y	
2	Duration for submittals and shop drawings, in working days	?						?	2 weeks
3	Duration for fabrication and delivery, in working days	?						?	1-2 months
4	Installation duration, in working days	?						?	
<b>G. Alternates</b>									
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.								
1	100% Payment & Performance Bonds on Turner Forms	y							
2	Provide add alternate for onsite WC and GL insurance	y							
3									
<b>H. Unit Prices</b>									
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.								
1									
2									
3									



**07 Metal Panels**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Rachael Sampson, phone: 571-512-2470 email: rsampson@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Kalkreuth Roofing & Sheet Metal	Parasoleil	Miller Clapperton	Emmitsburg Glass Co	Service Glass Industries
KR	PA	MC	EG	B
Austin Lynch 301-418-6100 301-748-5669	Bruce Marshal 303-589-4524 720-660-6978 bruce@parasoleil.com	John Vermeire 757-947-7804 scott.stafford@millerclapperton.com	Bryan Angle 301-447-2245 bangle@eglass.net	Steven Trawick 301-473-5500 ext.127
02/03/22	09/23/19	03/01/22	02/09/22	02/09/22
<b>FULLY SCOPED</b>	<b>NO</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>
\$ 1,344,200	\$ 258,819	\$ 1,898,000	\$ 1,897,745	\$ 1,560,000
\$ 941,293 70.0%	\$ 8,080 3.1%	\$ 65,903 3.5%	\$ 373,399 19.7%	\$ 528,928 33.9%
\$ 2,285,493 16%	<b>Incomplete</b>	\$ 1,963,903	\$ 2,271,144 16%	\$ 2,088,928 6%
Alucobond/ Morin	MP-4A Decorative Screen Only	Alucobond/ Morin	Alucobond/ Morin	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
		<b>Turner Construction Company's Environmental Health and Safety Program</b>																			
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y				y				
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y				y				
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				n				y				y				
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				n				n/a		n/a		y				
	5	Breakout Cost for Full Time Safety Manager	y		y				n				y	tdb					n/a		
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y				y				
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y				y				
		<b>Bid Acknowledgements</b>																			
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y				y				
		<b>Contract Attachments</b>																			
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y				y				
	3	AP-2 Documents List dated 10/22/2021	y		y				y				y				y				
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y				y				
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y				y				
	6	AP-5 BIM Requirements	y		y				y				y				y		excl BIM, use CAD		
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y				y				
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y				y				
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		n		(\$20,347)	KR	y				y				y				
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y				y				
	11	Bid valid for 90 days	y		n		30 days		y				y				n		60 days		
	12	Retainage: 5%	y		y				y				y				y				
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y						n				y				y				
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y				y				
		<b>Key Quantities and Breakouts (Populate Below)</b>																			
	1	Total Manhours	#																		
	2	Peak # of Workers anticipated	#			4 workers															
	3	Provide breakout of escalation costs	#																		
	4		#																		
		<b>Metal Panel Assemblies - Building:</b>																			
	6	MP-1a: Vertical Paneling	sf		sf	10,494			sf	532				132					11,000		
	7	MP-1b: Horizontal Paneling	sf		sf	incl above			sf	6,627				5,814					incl above		
	8	MP-1c: Dark Grey Color	sf		sf	incl above			sf	889				222					incl above		
	9	MP-1d: Light Grey Color	sf		sf	incl above			sf	217									incl above		
	10	MP-2a: Vertical Paneling	sf		sf	incl above			sf	2,520				2,837					incl above		
	11	MP-2d: Light Grey Color	sf		sf	incl above								913					incl above		
	12	MP-3a: Glazed Metal Panel System - Grey Color	sf		sf	incl above															
	13	MP-4a: Decorative Metal Screen System	sf					sf	1,213				sf	1,246						1,500	
	14	RS-1: Roof Screen	sf		sf	3,004			sf	3,317										3,000	
	15																				
		<b>Metal Panel Assemblies - Parking Garage:</b>																			
	17	MP-1A: Composite Vertical Paneling	sf		sf	3,451			sf	2,070				5,690						3,750	
	18	MP-1B: Composite Horizontal Paneling	sf		sf	incl above			sf	672				incl above						incl above	
	19	MP-2A: Composite Vertical Paneling	sf		sf	incl above			sf	869				incl above						incl above	
	20	PR-1A: Perforated Metal Panel System	sf		sf	incl above			sf	1,514			n							1,500	
	21	TOTAL	sf		sf	16,949		sf	1,213			sf	20,473						15,608	20,750	
		<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																			
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?			union								company workforce					some company		
	2	Where do the materials come from?	?											USA							
	3	What is lead time for materials?	?			4-6 months								12-14 wks							
	4	Identify Major Subcontractors	?			none															
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?											0%							
		<b>Prequalification</b>																			
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?	complete								on file					yes		
	2	Turner Prequalification Number:	?											4519							
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?											on file					yes		



17	MP-1A: Composite Vertical Paneling	sf		sf	3,451		sf	2,070		5,690		3,750					
18	MP-1B: Composite Horizontal Paneling	sf		sf	incl above		sf	672		incl above		incl above					
19	MP-2A: Composite Vertical Paneling	sf		sf	incl above		sf	869		incl above		incl above					
20	PR-1A: Perforated Metal Panel System	sf		sf	incl above		sf	1,514		n		1,500					
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?								on file							
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	EMR 0.78		?	.71		0.8		0.77					
6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?		?	2.00%		?	1.5%		1.25%		1.50%					
7	Include Payment and Performance Bond	n															
Price																	
Price:																	
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal																	
Company:																	
Individual:																	
Title:																	
Signature:																	
Date:																	
AP-1 Statement of Work			Kalkreuth Roofing & Sheet Meta B1			Parasoleil B1			Miller Clapperton B1			Emmitsburg Glass Co B1			Service Glass Industries B1		
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF			0			0			0			Bryan Angle 301-447-2245			Steven Trawick 301-473-5500 ext.127		
07 Metal Panels			-			-			-								
01/12/22			y/n/Sub														
<b>A. General</b>																	
The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y		y								see proposal					
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 07 Metal Panels scope as defined in this Statement of Work and as shown or described in the Contract Documents.		y		y								see proposal					
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.		y		y								see proposal					
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y		y						y							
<b>B. Documents</b>																	
The Work shall consist of 07 Metal Panels Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																	
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y			y			y		y					
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y			y			y		y					
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y			y			n/a		y					
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y			y					y					
5	RFI Log dated - TBD	y		y			y					y					
6	Specifications	y		y			y					y					
	- Division 00 - Procurement and Contracting Requirements (Complete)	y		y			y					y					
	- Division 01 - General Requirements (Complete)	y		y			y					y					
	- 019115 - Facility Enclosure Commissioning	y		n			y					n					
	- 054000 - Cold Formed Metal Framing (as it applies to this scope)	y		n	ok		y					n					
	- 050000 - Misc. Metals (as it applies to this scope)	y		n	ok		y					n					
	- 061000 - Rough Carpentry (as it applies to this scope)	y		n	ok		y					n					
	- 072100 - Thermal Insulation (as it applies to this scope)	y		y			y					y					
	- 074210.11- Composite Metal Hybrid (CMH Sub framing)	y		y			y					y					
	- 074213- Metal Wall Panels	y		y			y					y					
	- 074264 - Metal Composite Material Wall Panels	y		y			y					y					
	- 076200 - Sheet Metal Flashing and Trim (as it applies to this scope)	y		y			y					y					
	- 077100 - Roof Specialties (as it applies to this scope)	y		n	ok		y			n	ok	y					
	- 079200 - Joint Sealants (as it applies to this scope)	y		n			y					y					
<b>C. Inclusions</b>																	
<b>STANDARD REQUIREMENTS</b>																	
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y			y			y		y					
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y	dumpsters by TCCO		y			y		y					
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y			y			y		y					
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y			y			y		y					
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		n	n/a		y			y	as noted	n					
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		n	n/a		y			n/a		n/a					
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		n	n/a		y			n/a		n/a					
8	All work performed shall be per governing codes	y		y			y			y		y					
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y			y			y		n					
10	Include field measurement as required prior to fabrications	y		y			y			n		n					
<b>SPECIFIC SCOPE ITEMS</b>																	



17	MP-1A: Composite Vertical Paneling	sf		sf	3,451			sf	2,070		5,690		3,750						
18	MP-1B: Composite Horizontal Paneling	sf		sf	incl above			sf	672		incl above		incl above						
19	MP-2A: Composite Vertical Paneling	sf		sf	incl above			sf	869		incl above		incl above						
20	PR-1A: Perforated Metal Panel System	sf		sf	incl above			sf	1,514		n		1,500						
11	Advise the Project Team of material availability and long lead material and equipment items if they differ from the schedule below. Continuous review and evaluation of the design documents for constructability, operability, cost (budget) considerations, and recommendations to improve, optimize constructability, site logistics and sequencing.	y		y				y			y		y						
12	Advise the Project Team on construction means & methods, potential safety hazards, and construction process feasibility. The feasibility of off-site pre-fabrication will be continually investigated and strongly encouraged.	y		y				y			y		tdb						
13	Prepare coordinated shop drawings. Shop drawings shall show how the work of this subcontract is to be installed in relation to the work of other trades. This includes MEP trades whose work may require penetrations in this scope of work (i.e. lighting, fire protection devices, pipes etc.). Work installed in conflict with the work of other trades (as a result of improper coordination) shall be corrected at this Subcontractor's expense.	y		y				y			y		excl coordination						
14	All shop drawings and calculations & analyses must be prepared, stamped and sealed by a Registered Professional Engineer, licensed in the project jurisdiction.	y		y				y			y		excl stamped dwgs						
15	Provide information and data to support LEED compliance. Participate in defining and developing potential Sustainable Design initiatives to achieve LEED certification.	y		y				y			y		y						
16	Subcontractor shall participate in meetings with Project Team to coordinate exterior wall details. The purpose of these meetings is to create a Continuity of Weather barrier, Compatibility of Products, etc. between all Exterior Wall & Roofing Products and assemblies.	y		y				y			y		y						
17	Provide complete Metal Panel systems including: Metal Panel Assemblies with CFMF Backing (MP-1a-d), Metal Panel Assemblies with CMU Backing (MP-2a&d), Glazed Metal Panel System (MP-3a), Roof Screen (RS-1), Metal Panels Assembly Type 1 - Composite (MP-1A & B), Metal Panel Assembly Type 1 - Composite (MP-2A), and Perforated Metal Panel System (PR-1A).	y		y	excl PR-1A & MP-4a,		n	Pricing for only furnish of Decorative metal panels			y	PR-1A install, furnish by PA as a separate contractor	n	excl PR-1A, MP-4a	\$	286,899	PA	y	
18	Throughout the design, fabrication, and installation of this work, coordinate adjacent, penetrations, openings, terminations, intersections, or interactions of work by other trades.	y		y				y			y		y						
19	Provide coordination of drawings and layout with CFMF subcontractor.	y		y				y			y		y	limited					
20	Provide Warranties as required per the Contract Documents. Warranty period to start the after date of Substantial Completion.	y		y				y			y		y						
21	Provide Composite Metal Hybrid (CMH) Sub framing where indicated on the drawings.	y		y				y			y		y						
22	Provide samples 12" x 12" in size illustrating finish color and texture for review and approval	y		y				y			y		y						
23	Provide all accessories and components required to provide a complete watertight system including but not limited to: furring, sealants, gaskets, fasteners, anchors, angles, channels, and clips.	y		y				y			y		y						
24	Provide joint sealants within metal wall panel systems and to adjacent exterior wall assemblies, except Precast Architectural Concrete and Curtainwall.	y		y				y			y		y						
25	Provide Mock-Ups of Metal Wall Panels to demonstrate penetrations, esthetics, and details to other components.	y		y				n			y	10x10 as noted	y	see proposal					
26	Provide Sheet Metal Flashing and Trim where required per manufactures instructions (i.e. penetrations, opening, terminations, etc.).	y		y				y			y		y						
27	Provide field water tests according to AAMA 501.2 as designated by the architect. (testing by Owner, provided by Glass)	y		n	ok			n	n/a		y		n/a						
28	Engage an independent testing agency experienced with testing assemblies of the type required for this project with the facilities necessary for a full-size mock-up.	y		n	n/a			n	n/a		n	n/a	n/a						
29	Coordinate locations of penetrations and openings with other trades. Where possible, provide factory cuts for penetrations. Where not possible, provide field cuts.	y		y				y			y		y						
30	Provide metal panel soffits and coping considered to be inclusive of the metal panel systems where shown on the drawings	y		y				y			y		y						
31	Provide metal panel system at Building and Parking Garage canopies including coping and exterior soffit panel with wood look plank pattern. Reference details A4/ A3-301 and 1/PG-A3-301.	y		y				y			n		y						
32	Metal Wall Panel systems are to be factory fabricated prefinished metal panel system, site assembled with components designed to withstand dead and live loads caused by positive and negative wind pressure acting normal to plane of wall.	y		y				y			y		y						
33	Metal Composite Material Wall Panels are to have metal panels, fasteners, and anchors designed to be supported by framing or other substrates provided by others. Provide installed panel system capable of maintaining specified performance without defects, damage or failure.	y		y				y			n		y						
34	Furnish all components of Decorative Metal Screen Wall System (MP-4a) at all locations including, but not limited to; connections, support, framing, trims, flashings, etc. Reference detail 5/A3-002.	y		n	Obtaining cost form Parasoleil	\$554,000	KR	n	add steel posts (add 30 horizontal tube support \$100/ea)	\$28,080	PA	y	n	see above	n	install only, furnish by PA	\$	293,589	PA
34	Install all components of Decorative Metal Screen Wall System (MP-4a) at all locations including, but not limited to; connections, support, framing, trims, flashings, etc. Reference detail 5/A3-002.	y		y	Incl above & below						y		n	see above	n		\$170,339	Turner	
35	Provide all components of Perforated Metal Panel System (PR-1A) at all locations including, but not limited to; connections, support, framing, trims, flashings, etc. Reference sheets PG-A2-101 & PG-A2-102	y		n	Obtaining cost form Parasoleil including support framing provided by Parasoleil	\$340,300	KR	y											
36	Provide all components of Roof Screen Formed Metal Panel (RS-1) including, but not limited to; connections, support, framing, trims, flashings, etc. Roof Screen Formed Metal Panels are to have 50% opening, finish to match metal panels. Reference sheet A3-001, Building Envelope Assembly Legend	y		n	crossed out support framing,						y		y	excl framing					
37	Provide 2-piece counterflashing where metal panel system terminates into vegetated roofing system. Reference detail 6/ A3-002.	y		y							y		y	as one-piece					
38	This scope is subject to the responsibilities, participation, testing and documentation required per Specification Section 019115 Facility Enclosure Commissioning.	y		y							y		y						
39	Coordinate and provide metal panels for Mock-Up as required per spec 074264 Metal Composite Material Wall Panels and 084413 Glazed and Aluminum Curtainwalls.	y		n		\$25,000	Turner		n	\$25,000	Turner	n	\$25,000	Turner	n	\$25,000	Turner		
40	Confirm acceptance of ART Covid Policy dated 8.27.21	y		n		\$2,340	KR	n	n/a		n	\$903	MC	n	\$21,500	EG			
<b>D. Exclusions</b>																			
1	Joint Sealants to Precast Architectural Concrete - by Joint Sealants	n		n				n			n		n						
2	Joint Sealants to Curtainwall Systems - by Curtainwall	n		n				n			n		n						
3	Installation of Gypsum Wall Board substrate - by Drywall	n		n				n			n		n						
4	Cold Formed Metal Framing within wall system used to support Metal Panel systems - by Drywall	n		n				n			n		n						
5	Air Vapor Barrier - by Air Vapor Barrier	n		n				n			n		n						
6	Firestopping at slab edge where metal panel systems occur - by Drywall	n		n				n			n		n						
7	Insulated Metal Wall Panels within the Curtainwall System - by Glass and Glazing	n		n				n			n		n						
8	Parking Garage Mesh Panel Infills - with Glass & Glazing and Misc. Metals	n		n				n			n		n						
9	Assume the 24% perforated panels within the Parking Garage storefront are to be decorative metal panels furnished by Parasoleil. Framing and install by Glass and Glazing. Ref RFI 201	n		n				n			n		y						
10	Provide perforated metal panels system MP-4A at maintenance building only where the system is mounted to the storefront framing system S1 install by Glass and Glazing.	n		n				y	\$98.60/SF for 360 SF	(\$30,000)	PA/TC	n	y						
<b>E. Special Trade Requirements</b>																			



17	MP-1A: Composite Vertical Paneling	sf		sf	3,451			sf	2,070		5,690		3,750								
18	MP-1B: Composite Horizontal Paneling	sf		sf	incl above			sf	672		incl above		incl above								
19	MP-2A: Composite Vertical Paneling	sf		sf	incl above			sf	869		incl above		incl above								
20	PR-1A: Perforated Metal Panel System	sf		sf	incl above			sf	1,514		n		1,500								
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%										0%								
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y											y								
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y											y								
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y											n								
b	Office Policy [ Or Project Specific]	y																			
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y																			
<b>F. Schedule</b>																					
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																					
1	Review and comply with Turner Schedule (AP-6)	y																			
2	Duration for submittals and shop drawings, in working days	?						?	12 wks												
3	Duration for fabrication and delivery, in working days	?				?	7wks	?	8 wks, after field dimensions taken												
4	Installation duration, in working days	?						?	35 wks												
<b>Allowances</b>																					
A	1	Provide an allowance to repair or replace damaged metal panels prior to final completion.	y/n		n	Assume 2% of total quantity, use MC unit costs	\$30,000	TC/MC	n	N/A	y	\$80/sf = MCM, \$60/sf = MP, \$110/sf = perf	\$30,000	TC/MC	Assume 2% of total quantity, use MC unit costs	\$30,000	TC/MC	n	total quantity, use	\$30,000	TC/MC
A	1	Provide an allowance for penetration detailing coordination	y/n		n		\$10,000	Turner	n	\$10,000	Turner	n	\$10,000	Turner	n	\$10,000	Turner	n	\$10,000	Turner	
					Yes/No -->	yes		Yes/No -->	No		Yes/No -->	yes		Yes/No -->	yes		Yes/No -->	Yes			
						\$	1,344,200		\$	258,819		\$	1,898,000		\$	1,897,745		\$	1,560,000		
						\$	941,293		\$	8,080		\$	65,903		\$	373,399		\$	528,928		
						\$	2,285,493		Incomplete		\$	1,963,903		\$	2,271,144		\$	2,088,928			
					4	16%		NA		LOW BID	1		3	0.1564		2	0.0637				
<b>G. Alternates</b>																					
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.																					
1	100% Payment & Performance Bonds on Turner Forms	y											1.25%								
2	Provide add alternate for onsite WC and GL insurance	y																			
3																					
<b>H. Unit Prices</b>																					
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.																					
1																					
2																					
3																					



### 07 Roofing

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Rachael Sampson, phone: 571-512-2470 email: rsampson@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Citiroof Corp		CC	Kalkreuth Roofing & Sheet Metal		KR	Prospect Waterproofing		PW
Dan Bisson			Austin Lynch			Joseph Beazley		
410-381-3100			301-418-6100			703-450-2355		
419-466-7134			301-748-5669			571-259-8040		
			<a href="mailto:alynch@krsm.net">alynch@krsm.net</a>					
01/27/22			02/14/22			09/23/19		
<b>FULLY SCOPED</b>			<b>FULLY SCOPED</b>			<b>FULLY SCOPED</b>		
\$ 1,027,852			\$ 1,062,900			\$ 906,074		
\$ 25,008 2.4%			\$ (8,904) -0.8%			\$ 49,418 5.5%		
\$ 1,052,860 10%			\$ 1,053,996 10%			\$ 955,492		
			Carlisle					

Turner Construction Company's Environmental Health and Safety Program										
1	Turner Construction Company's Environmental Health and Safety Program	y			y				y	
2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y			y				y	
3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y			y				y	
4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y			y			n	n/a	n
5	Breakout Cost for Full Time Safety Manager	y			n			n/a	n/a	y
6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y			y				y	
7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y			y				y	
Bid Acknowledgements										
1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y			y				y	
Contract Attachments										
2	AP-1 Statement of Work dated 1/12/2022	y			y				y	
3	AP-2 Documents List dated 10/22/2021	y			y				y	
4	AP-3 Supplementary Provisions dated 1/14/2022	y			y				y	
5	AP-4 Logistics Plan dated 12/22/2021	y			y				y	
6	AP-5 BIM Requirements	y			y				y	
7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y			y				y	will need to discuss durations
8	AP-7 Equipment Coordination Matrix dated - TBD	y			y				y	
9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances	y			y			n	Provided Deduct on proposal	(\$33,912) KR
10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y			y				y	
11	Bid valid for 90 days	y			y			n		
12	Retainage: 5%	y			y				y	
13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y			y				y	
14	LEED: LEED Silver; Project is striving for minimal environmental impact	y			y				y	
Key Quantities and Breakouts (Populate Below)										
1	Total Manhours	#			#	4600			#	6411
2	Peak # of Workers anticipated	#			#	12			#	14
3	Provide breakout of escalation costs	#			#	no				
4		#								
5	Thermoplastic Membrane Roofing System	sf			sf	25,500			sf	21,482
6	Deck Sheathing	sf			sf	18,600			sf	incl above
7	Cover Boards	sf			sf	21,000			sf	incl above
8	Insulation Boards	sf			sf	42,700			sf	incl above
9	Vegetated Protected Membrane Roofing System	sf			sf	1,700			sf	1,713
10	Protection Sheet	sf			sf	1,700			sf	incl above
11	40 PSI Rigid Insulation	sf			sf	1,700			sf	incl above
12	Growing Media (3"-6")	sf			sf	1,700			sf	incl above
13	Vegetation	sf			sf	1,700			sf	incl above
14	EPDM Roofing System - Parking Garage	sf			sf	1,500				
15	Roof Pavers	sf			sf	1,100			sf	1146 sf
16	Coping	lf			lf	1,200			lf	1,247
17	Walkway Pads	lf			lf	600			lf	500



18	Scupper Boxes, Down Spouts, & Splash Blocks	ea		ea	17	ea	13	n	12 (5 missing)	\$15,500	TCCo/P W				
19	Roof Hatch - Parking Garage	ea		ea	1			ea	1						
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>															
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	company workforce	?	union	?	company workforce						
2	Where do the materials come from?	?						?	US						
3	What is lead time for materials?	?		?	unknown	?	6-12 months	?	12 months						
4	Identify Major Subcontractors	?					none								
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?		?	0%			?	10%						
<b>Prequalification</b>															
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?					complete								
2	Turner Prequalification Number:	?													
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?													
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?													
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	0.62	?	0.78	?	0.7						
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?		?	1.00%	?	2.00%	?	1.50%						
7	Include Payment and Performance Bond	n	_____%												
<b>Price</b>															
Price:															
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal															
Company:															
Individual:															
Title:															
Signature:															
Date:															
<b>AP-1 Statement of Work</b>				<b>Citiroof Corp B1</b>				<b>Kalkreuth Roofing &amp; Sheet Metal B1</b>				<b>Prospect Waterproofing B1</b>			
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0				0				0			
07 Roofing				-				-				-			
01/12/22				y/n				Sub							
<b>A. General</b>															
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y		y		y							
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 07 Roofing scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		y		y		y							
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		y		y		y							
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y		y		y							
<b>B. Documents</b>															
	The Work shall consist of 07 Roofing Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:														
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y		y		y							
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y		y		y							
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y		y		y							
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y		y		y							
5	RFI Log dated - TBD	y		y				y							
6	Specifications	y		y				y							
	- Division 00 - Procurement and Contracting Requirements (Complete)	y		y				y							
	- Division 01 - General Requirements (Complete)	y		y				y							



	- 061000 - Rough Carpentry (as it applies to this scope)	y		y		n	n/a	n	n/a
	- 072100 - Thermal Insulation (as it applies to this scope)	y		y		n	n/a	y	
	- 075400 - Thermoplastic Membrane Roofing	y		y		y		y	
	- 075563 - Vegetated Protected Membrane Roofing	y		y		y		y	
	- 076200 - Sheet Metal Flashing and Trim (as it applies to this scope)	y		y		y		y	
	- 077100 - Roof Specialties	y		y		y		y	
	- 079200 - Joint Sealants (as it applies to this scope)	y		y		y		y	
<b>C. Inclusions</b>									
<b>STANDARD REQUIREMENTS</b>									
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y		y		y	
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y		y	dumpster by Turner	y	
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		n	n/a	y		y	
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y		y		y	
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		n	n/a	n	n/a	n/a	
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		n	n/a	n	n/a	n/a	
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		n	n/a	n	n/a	y	
8	All work performed shall be per governing codes	y		y		y		y	
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		n	n/a	y		y	
10	Include field measurement as required prior to fabrications	y		y		y		y	
<b>SPECIFIC SCOPE ITEMS</b>									
<b>Preconstruction</b>									
11	Advise the Project Team of material availability and long lead material and equipment items if they differ from the schedule below. Continuous review and evaluation of the design documents for constructability, operability, cost (budget) considerations, and recommendations to improve, optimize constructability; site logistics and sequencing.	y		y		y		y	
12	Advise the Project Team on construction means & methods, potential safety hazards, and construction process feasibility. The feasibility of off-site pre-fabrication will be continually investigated and strongly encouraged.	y		y		y		y	
13	Prepare coordinated shop drawings. Shop drawings shall show how the work of this subcontract is to be installed in relation to the work of other trades. This includes MEP trades whose work may require penetrations in this scope of work (i.e. lighting, fire protection devices, pipes etc.). Work installed in conflict with the work of other trades (as a result of improper coordination) shall be corrected at this Subcontractor's expense. Coordinated drawings will identify access panel size and locations. Contractor to furnish access panels and field coordinate all locations with the installing Subcontractor. Subcontractor agrees to limit the number of access panels to be required.	y		y		y		y	
14	Provide information and data to support LEED compliance. Participate in defining and developing potential Sustainable Design initiatives to achieve LEED certification.	y		y		y		y	
15	Subcontractor shall participate in meetings with Project Team to coordinate exterior wall details. The purpose of these meetings is to create a Continuity of Weather barrier, Compatibility of Products, etc. between all Exterior Wall & Roofing Products and assemblies.	y		y		y		y	
<b>Construction</b>									
16	Throughout the design, fabrication, and installation of this work, coordinate adjacent, penetrations, openings, terminations, intersections, or interactions of work by other trades	y		y		y		y	
17	Provide all components for a complete Thermoplastic Membrane Roofing conventional unballasted system, including but not limited to; flat and tapered insulation, roof assembly vapor retarder, deck sheathing, flashings, roofing stack boots, walkway pads, roof paver systems, etc	y		y		y		y	
18	Provide all necessary accessories, including but not limited to; flashing, fasteners, sheathing adhesive, tapered edge strips, sealants, flexible foam rods, etc.	y		y		y	excl blocking/ sheathing	y	
19	Roof Assembly Vapor Retarder to be polyethene laminate, two layers, reinforced with cord grid, with maximum permance rating of 0.062 perm complying with requirements of fire rating classification; compatible with roofing and insulation materials. As required per Specification Section 075400.	y		y		y	mnf standard	y	mnfr recs VB req'd for FM rating & approval
20	Apply Roof Assembly Vapor Retarder to concrete deck surface or deck sheathing with adhesive per manufacturer's instructions.	y		y		y		y	
21	Deck Sheathing and Cover Board shall be glass mat faced gypsum panels, 1, fire resistant type, 5/8 inch thick as required per Specification Section 075400. Apply deck sheathing on metal deck. Apply cover board at unballasted applications and mechanically fastened	y		y		y	cb adhered, not fatened	y	
22	Provide insulation as indicated at penetrations, base flashing, etc. which includes, but is not limited to board insulation, mineral wool, and batt insulation.	y		y		y	excl mineral wool insul	y	excl mineral wool
23	Prior to installation of roofing membrane, inspect and verify surface and site conditions are acceptable and ready to receive work. Verify roof deck is supported, secure, clean, smooth, flat, and free of waves or projections. Verify roof opening, curbs, and penetrations are solidly set, and cant strips, nailing strips, and reglets are in place.	y		y		y		y	
24	Where roofing membrane substrate is Precast Architectural Concrete, verify top of precast does not vary more than 1/4 inch in height and that grout keys are filled and flush. Fill surface honeycombs and variations with late filler.	y		n		y	conc prep by others	y	excl surface prep
25	Provide flashing and trim per manufacturer's instructions around all deck penetrations. Taper roofing membrane system away from penetrations	y		y		y		y	



26	Roofing membrane system to taper towards roof drains where located on the drawings and coordinated with Plumbing.	y		y		y		y								
27	Provide roof edge flashings and copings as required. Coordinate installation with adjacent exterior systems.	y		y		y		y								
28	Provide Vegetated Roofing System with less than 6 inches of soil/ growth medium.	y		y		y		y								
29	Components of the Vegetated Roofing System shall include but not limited to; protection fabric, horizontal drain board, root barrier, rigid insulation board, moisture retention mat, drainage composite mat, system filter, etc.	y		y		y		y								
30	Provide manufacturer's custom growing media mix capable of supporting vigorous growth of specified vegetation. Refer to drawings for vegetation required.	y		y		y		y								
31	Prior to installation of Vegetated Roofing System, inspect and verify surface (roofing membrane system) and site conditions are clean, acceptable and ready to receive work.	y		y		y		y								
32	Provide 3/16 inch perforated stainless steel edge restraints with splice clips where indicated on the drawings (i.e. roof pavers, vegetation free zones). Reference sheet A3-901.	y		y		y		n	green roof mnfr std thickness							
33	Provide a written approval of the completed vegetated roofing system installation by the waterproof membrane manufacturer.	y		y		y	protection by others	y								
34	During installation and after completion of the vegetated roofing system, provide protection and substantial barricades from construction traffic and activities.	y		y		y		n	excl temp protection \$10,000 Turner							
35	Provide sheet metal Scupper Boxes where indicated with hemmed edges, waterstop flanges, and hemmed drips. This includes all components including, but not limited to; aluminum downspouts, fasteners, splashblocks and supports, anchors, etc. Reference detail B4/A3-901.	y		y		y		y								
36	Provide all roof access hatches where indicated including, but not limited to; fastener, anchors, flashings, etc.	y		y		y		y								
37	Provide PVC and all of its components at Parking Garage including, but not limited to; flashing, fasteners, sheathing adhesive, tapered edge strips, sealants, flexible foam rods, etc.	y		y		y		y								
38	Roof Paver System to be precast concrete roof pavers with color and texture as indicated. Install pavers on pedestals in accordance with manufacturer's instructions. Ref RFIs 222 & 224.	y		n	Add Roof Pavers at 'Vegetation Free Zones'	\$22,668	TCCo	n	Add Roof Pavers at 'Vegetation Free Zones'	\$22,668	TCCo	n	Add Roof Pavers at 'Vegetation Free Zones'	\$22,668	TCCo	
39	Walkway Pads to be suitable for maintenance traffic with color contrasting or otherwise visually distinctive from roof membrane, and as approved by the roofing membrane manufacturer. Space pad joints to permit drainage.	y		y				y								
40	Provide 2 piece counterflashing at where vegetated roofing system terminates at storefront. Reference detail 7/A3-002.	y		y				y								
41	Stainless steel inspection chamber with removable lid and lock at roof drains. Reference detail 4/A3-901.	y		y				y								
42	Repair and or replace any portion of the roofing membrane or vegetated roofing systems that are damaged or have failed inspection prior to final completion.	y		y				y	\$12/sq.ft.							
43	This scope is subject to the responsibilities, participation, testing and documentation required per Specification Section 019115 Facility Enclosure Commissioning.	y		y				y								
44	Provide Cast Iron Boots and tie into downspouts. ref detail 2/A3-204 (16 total)	n	by plumbers	n				n								
45	<del>Provide a transparent roof-mounted skylight dome and curb, reflective tube, and ceiling level diffuser assembly by Solutube as indicated (4 total). Install skylight complete according to manufacturer's instructions.</del>	n		n				n								
46	Confirm acceptance of ART Covid Policy dated 8.27.21	y		n		\$2,340	KR	n	Provided cost in updated proposal	\$2,340	KR	n		\$1,250	PW	
<b>D. Exclusions</b>																
1	Vapor Retarder on exterior wall gypsum sheathing - by Air Barriers	n		n				n				n				
2	Exterior duct insulation - by Mechanical	n		n				n				n				
3	Below roof deck foam in place sealant - by Painter or Fireproofing	n		n				n				n				
4	Roof drain deck clamp - Plumbing	n		n				n				n				
5	Provide 1/2 inch FRT Plywood where indicated at roof parapets - by Rough Carpentry	n		n				n				n				
6	Skyvault Solutube curb flashing per detail 2/A3-301 - by Solutube	n		n				n				n				
7	Vertical mineral wool insulation on parapet walls and any roof blocking/ sheathing	n						n								
8	Protection of work from damage by others	n										n				
<b>E. Special Trade Requirements</b>																
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%			0%								10%		
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		n				y								
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		n				y				n		n/a		
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		n								y				
b	Office Policy [ Or Project Specific)	y		n								y				
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		n								y				
4	Includes escalation of labor and material costs	y														
<b>F. Schedule</b>																
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																
1	Review and comply with Turner Schedule (AP-6)	y														
2	Duration for submittals and shop drawings, in working days	?						?		30 days						
3	Duration for fabrication and delivery, in working days	?						?		6-12 months						



4	Installation duration, in working days	?				?	60 crew days			
<b>G. Alternates</b>										
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein									
1	100% Payment & Performance Bonds on Turner Forms	Y								
2	Provide add alternate for onsite WC and GL insurance	Y								
3	Provide Add Alternate for leak detection system	Y				n	\$56,250	KR		
<b>H. Unit Prices</b>										
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.									
1										
2										
3										



**07 Waterproofing**

Project: Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
 Job #: 20039  
 A/E: Stantec Architecture Inc.  
 Bid Date: 1/27/2022 @ NOON  
 AP1 Date: 01/12/22  
 Est: Scott Stevenson  
 Pro: Johnnel Lanham  
 Ops: Derek Brown  
 Estimator: Rachael Sampson, phone: 571-512-2470 email: rsampson@tcco.com

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Baltimore Waterproofing BW	Forsythe, Inc FI	Prospect Waterproofing PW	Seal Caulking & Waterproofing SC
Jon Dean 410-238-1533 ext 104 jon@bwpinc.com	Bob Hudson 804-238-2043 bob@forsytheinc.net	Joseph Beazley 703-450-2355 571-259-8040 jbeazley@pwcompany.com	Jared Kaufman 301-420-7095 240-687-4182
02/25/22	02/01/22	01/27/22	02/18/22
<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>
\$ 272,140	\$ 354,292	\$ 308,050	\$ 281,937
\$ 20,225 7.4%	\$ 24,380 6.9%	\$ 22,131 7.2%	\$ 9,200 3.3%
\$ 292,365 0%	\$ 378,672 30%	\$ 330,181 13%	\$ 291,137
proposing Tremco		proposing Carlisle	proposing Carlisle

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n		\$5,000	Turner	y				n	if this can be a designated OSHA 30 crew member we will provide at no cost, otherwise this is excluded	\$5,000	Turner
	5	Breakout Cost for Full Time Safety Manager	y		n/a		\$5,000	Turner	y				n	*	\$5,000	Turner
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y			
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y			
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
	6	AP-5 BIM Requirements	y		y				y				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurance	y		y				y				n		(\$6,908)	PW
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
	11	Bid valid for 90 days	y		y				y				y			
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y				y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#		#	3840			#	tbd			#	860 mh		
	2	Peak # of Workers anticipated	#		#	8			#	5-7			#	6 workers		
	3	Provide breakout of escalation costs	#		#				#	unknown			#			
	4															
	5	Built-Up Bituminous Waterproofing System - perimeter foundation walls	sf		sf	4,860			sf	1,947			sf	3,838		
	6	Built-Up Bituminous Waterproofing System - perimeter foundation walls - Parking Garage	sf		sf	5,220			sf	1,782			sf	3,009		
	7	Crystalline Waterproofing - interior of elevator pits	sf		sf	3 pits			sf	847			sf	3 pits		
	8	Traffic Coating - Parking Garage	sf		sf	36,611			sf	51,600			sf	44,157		
	9	Thermal Insulation - perimeter foundation walls	sf		sf	0							sf	incl above		
	10	Thermal Insulation - perimeter foundation walls - Parking Garage	sf		sf	2,320							sf	incl above		
	11	Perimeter Drain Piping w/ Crushed Stone Backfill wrapped in Geotextile Fabric	lf	not req'd per RFI		0										
	12	Perimeter Drain Piping w/ Crushed Stone Backfill wrapped in Geotextile Fabric - Parking Garage	lf		lf	670			lf	594						
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	company workforce			?	open			?	company workforce		
	2	Where do the materials come from?	?		?	distributor			?	USA			?	suppliers		
	3	What is lead time for materials?	?		?	4 wks			?	1-2 months			?	6 weeks		
	4	Identify Major Subcontractors	?		?	none			?				?	none		
	5	Provide ___ % UBE (Underutilized Business Enterprise) participation. There is 30% BUUBE Participation Goal	?		?	0%			?	8a ans SWAM			?	10%		
<b>Prequalification</b>																
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?	yes			?				?	Yes		
	2	Turner Prequalification Number:	?													
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?						?				?	Yes		
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?						?				?	Yes		
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	0.77			?	0.7			?	1.0		
	6	Provide Payment and Performance Bond Rate [Provide Rate: ___ %]	?		?	2.00%			?	3.00%			?	1.50%		
	7	Include Payment and Performance Bond	n						n							
<b>Price:</b>																
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this propose																
Company:																





20	Provide waterproofing and flashing at all through slab penetrations as recommended by the manufacturer.	y		y		y	no metal		y	included wall penetrations and excluded slab penetrations		y							
21	Provide accessories for a complete water-tight system including but not limited to; drainage boards, water stops, joint sealants, and stainless steel termination bars.	y		y		y			y	crossed out water stops and joint sealants		y	crossed out water stops						
22	Provide Crystalline Waterproofing to the interior slabs and walls of all elevator pits. (Per RFI 175, Provide Crystalline Waterproofing at all slab-on-grade recesses/pits. )	y		n	Add'l areas added per RFI 175, provided on updated proposal	\$9,225	BW	n	Incl ewxt wall, Add'l areas added per RFI 175	\$11,380	SC	n	Add'l areas added per RFI 175	\$11,380	SC	n	Add'l areas added per RFI 175	[\$11,380]	SC
23	Provide Traffic Coating to be applied as indicated in the Parking Garage. Traffic Coating is to be a fluid-applied polyurethane with color to achieve SRI criteria.	y		y				y				y							
24	Providing waterproofing at Planter on Level 4 of the Parking Garage.	n	Deleted per RFI	n				n				y	(\$5,000)	SC	y	RFI deleted	(\$5,000)	SC	
25	Provide patching and repair for damaged work.	y		y	on T&M			y				y	minimal amount only						
26	Provide insulation board on the exterior side of the foundation walls as indicated.	y		y				y	n		\$11,409	SC	y						
27	Clean and prep of surfaces prior to application of waterproofing.	y		y	minor			y		"clean and prime", crossed out "prep"			y	minimal amount only					
28	Any flashing required for termination of waterproofing systems.	y		y	flexible flashing			y		excludes all metal flashing			y						
29	Provide liquid applied moisture barrier at top of foundation wall.	y		y				y	n		n/a		y						
30	Provide perimeter drain piping and crushed stone backfill wrapped in geotextile fabric at all perimeter foundations (Parking Garage), coordinate routing and storm water connections. Reference detail 1/ PG-A3-001.	y		y	connection by others			n		\$12,000	BW	y		n		\$12,000	BW		
31	This scope is subject to the responsibilities, participation, testing and documentation required per Specification Section 019115 Facility Enclosure Commissioning	y		y				y					y						
32	Confirm acceptance of ART Covid Policy dated 8.27.21	y		n		\$1,000	BW	n		\$1,000	BW	n		\$1,250	PW	n		\$2,200	SC
<b>D. Exclusions</b>																			
1	Vapor Barrier applied at horizontal surface of concrete under slab - by Concrete	n		n				n					n						
2	Insulation Board located on the interior side of the foundation walls - by Concrete	n		n				n					n						
3	Metal Flashing at grade considered to be part of the exterior CW or MP systems - by Curtainwall and Metal Panel	n		n				n					n						
4	Provide fluid applied waterproofing - by flooring	n		n				n					n						
5	Provide Joint sealants - joint sealants	n		n				n					n						
6	Exclude protection of work from damage by others	n		n				n					n						
7																			
<b>E. Special Trade Requirements</b>																			
1	% UBE - Underutilized Business Enterprise(Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#	___%		0%			tbd					10%						
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y				y					y						
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		n	n/a			y	n	n/a			y						
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y				y					y						
b	Office Policy (Or Project Specific)	y		n	n/a			y					y						
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		n	n/a			y					y						
<b>F. Schedule</b>																			
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule																			
1	Review and comply with Turner Schedule (AP-6)	y		y				y					y						
2	Duration for submittals and shop drawings, in working days	?		?	15-20			?	2 wk										
3	Duration for fabrication and delivery, in working days	?		?	2-4 wks			?	n/a										
4	Installation duration, in working days	?		?	8 wks			?	tbd										
<b>G. Alternates</b>																			
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein																			
1	100% Payment & Performance Bonds on Turner Forms	y																	
2	Provide add alternate for onsite WC and GL insurance	y																	
3																			
<b>H. Unit Prices</b>																			
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.																			
1	patch and repair waterproofing												\$12/sf						
2																			
3																			



**08 DFH**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/19/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Tucker Winfrey 571-612-9492 twinfrey@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Precision Door & Hardware PD	DFH Commercial Inc. DFH	Washington Door & Hardware WDH
William Sullivan 301-682-4498 (240) 509-7124 bsullivan@pdoor.com	Saad Shah (703) 436-2490 sshah@dfhcommercial.com	yumjir 202-297-5922 butch@washingtontdoor.net
02/01/22	01/27/22	02/01/22
<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>
\$ 481,468	\$ 439,100	\$ 405,284
\$ 15,000 3.1%	\$ 15,000 3.4%	\$ 130,300 32.2%
\$ 496,468 9%	\$ 454,100	\$ 535,584 18%
<b>Excludes STC rated Full Lite doors</b>		

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
	1	Turner Construction Company's Environmental Health and Safety Program	y						y							
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y						y							
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y						y							
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y						y							
	5	Breakout Cost for Full Time Safety Manager	y						y							
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y						y							
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y						y							
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y						y							
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y						y							
	3	AP-2 Documents List dated 10/22/2021	y						y							
	4	AP-3 Supplementary Provisions dated 1/14/2022	y						y							
	5	AP-4 Logistics Plan dated 12/22/2021	y						y							
	6	AP-5 BIM Requirements	y						y							
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y						y							
	8	AP-7 Equipment Coordination Matrix dated - TBD	y						y							
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances	y						y							
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		[15336]		y		[16271]		y		[22940]	
	11	Bid valid for 90 days	y						y		30 days		y		30 days	
	12	Retainage: 5%	y						y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y						y				y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y						y				y			
	15	Arlington Contractor Covid Policy	y		y	n/a			y	n/a			y	n/a		
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#						#							
	2	Peak # of Workers anticipated	#						#							
	3	Provide breakout of escalation costs	#						#							
	4	Door types	#						#							
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?						?				?			
	2	Where do the materials come from?	?						?				?			
	3	What is lead time for materials?	?						?	18+ weeks wood doors			?	12-16 weeks		
	4	Identify Major Subcontractors	?						?				?			
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?						?				?			
<b>Prequalification</b>																
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?						?				?			
	2	Turner Prequalification Number:	?						?				?			
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?						?				?			
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?						?				?			
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?						?				?			
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR _____					?				?			



7	Include Payment and Performance Bond	n	%	n	0.50%	n	2%	n	1.25%
Price									
Price:									
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.									
Company:									
Individual:									
Title:									
Signature:									
Date:									
AP-1 Statement of Work				Precision Door & Hardware B1		DFH Commercial Inc. B1		Washington Door & Hardware B1	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		0		0	
08 DFH				-		-		-	
01/19/22				y/n Sub					
<b>A. General</b>									
	The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y				y			
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 08 DFH scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y				y			
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y				y			
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y				y			
<b>B. Documents</b>									
	The Work shall consist of 08 DFH Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:								
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021	y				y			
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y				y			
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y				y			
	4 Phase IV Submission for GMP Specifications dated 12/21/2021	y				y			
	5 RFI Log dated - TBD	y				y			
	6 Specifications	y				y			
	- Division 00 - Procurement and Contracting Requirements (Complete)	y				y			
	- Division 01 - General Requirements (Complete)	y				y			
	- 081413 - Hollow Metal Doors and Frames (Complete)	y				y			
	- 081416 - Flush Wood Doors (Complete)	y				y			
	- 083113 - Interior Non-Rated Access Doors and Panels (Complete)	y				n			
	- 083613 - Sectional Doors (Complete)	y				n			
	- 087100 - Door Hardware (Complete)	y				y			
	- 088000 - Glazing (As Applicable)	y				n			
	- 099113 - Exterior Painting (As Applicable)	y				n			
	- 099193 - Interior Painting (As Applicable)	y				n			
	- 260583 - Wiring Connections (As Applicable)	y				n			
<b>C. Inclusions</b>									
<b>STANDARD REQUIREMENTS</b>									
	1 Includes Hoisting/Rigging/Scaffolding Required for your Work	y				n	N/A		
	2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y				n	N/A		
	3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y				n	N/A		
	4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y				n	N/A		
	5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y				n	N/A		
	6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y				n	N/A		
	7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field	y				n	N/A		
	8 All work performed shall be per governing codes	y				n	N/A		
	9 Include cost of all surveying and layout (baseline survey to be provided by others)	y				n	N/A		
	10 Include field measurement as required prior to fabrications	y				y			
<b>SPECIFIC SCOPE ITEMS</b>									
	11 Furnish all hollow metal and wood doors (Including Fire Rated) per the door schedule, drawings and specifications	y		y	red oak	y	red oak		y red oak
	12 Furnish all hollow metal frames to correspond with door types. Reference the door schedule for sizes and framing details.	y		y	welded	y	welded		y
	13 Furnish all corresponding hardware per the drawings, specification and hardware schedule.	y		y		y		[\$12850]	y
	14 All doors and frames to be factory prepped for scheduled hardware per contract document requirements	y		y		y			y
	15 Furnish all stops required for installation of glass. Glass to be furnished by others.	y		y		y			y
	16 Provide temporary construction cores for all locksets.	y		y		y	70 total	[\$2,550]	DFH y
	17 Provide Storefront door final cores	y		n		n		[\$15,000]	Turner n
	18 Provide 20 temporary steel doors with lockable hardware for use during construction.	y		y	not fire rated	y	w/ hinge/lockset	[\$26,800]	DFH y
								[\$15,000]	Turner
								[\$13,992]	WDH



19	Fire rated borrowed lites as shown on A8-301 (6'-0" x 14'-0") Glazing by other	y		y	max dimensions his manufacturer can meet are 4'-11" x 9'-2" for fire rated borrowed lites. Carrying 3 additional lites to account for lost square footage	[\$12,932]	PD	y	max dimensions his manufacturer can meet are 6'-0" x 10'-6" for fire rated borrowed lites. Carrying an additional \$1500 for extra lites to makeup for the reduced SF	[\$7,000]	DFH	y		[\$11,130]	WDH
20	provide STC 50 with sound control door assembly at door #215.1 and #215.2 (training), #203 (conference), #311 (GM conference), #323 (conference ops), #325B.1 and #325B.2 (ops manager), #337 (quiet), #341A and #341B (training ops) per RFI #166	y		y	***Not included above*** Number is based off of the door elevations listed therefore, (7) full lite, (3) flush wood Doors ***option of substituting the full lite glassto 40 STC ILO of 50 \$20,450***	[\$188,750]	PD	y	***Not included above*** Number is based off of the door elevations listed therefore, (7) full lite, (3) flush wood Doors ***option of substituting all doors to STC 50 flush wood w/ no lites \$102,400***	[\$115,300]	DFH	n	Their manufacturer cannot do full light doors as STC 50, Will provide flush wood doors	\$115,300	DFH
<b>D. Exclusions</b>															
1	Install of doors, frames and hardware by Drywall Subcontractor	n		n				n				n			
2	Provide overhead door assemblies is by Overhead Doors Subcontractor	n		n				n				n			
3	Provide glazing, glass, and film is by Glazing Contractor	n		n				n				n			
4	Wiring of all doors will be provided by the electrical contractor	n		n				n				n			
P	provide painting of doors by painter	n		n				n				n			
<b>E. Special Trade Requirements</b>															
1	% UBE - Underutilized Business Enterprise(Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#	____%												
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y													
3	Professional Liability hsurance (if delegated design requirements identified in scope)	y													
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y													
b	Office Policy   Or Project Specific)	y													
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y													
4	Includes escalation of labor and material costs	y													
<b>F. Schedule</b>															
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule															
1	Review and comply with Turner Schedule (AP-6)	y													
2	Duration for submittals and shop drawings, in working days	?													
3	Duration for fabrication and delivery, in working days	?													
4	Installation duration, in working days	?													
<b>G. Alternates</b>															
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein															
1	100% Payment & Performance Bonds on Turner Forms	y													
2	Provide add alternate for onsite WC and GL insurance	y													
3															
<b>H. Unit Prices</b>															
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price															
1															
2															
3															



**08 Glass and Glazing**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Rachael Sampson, phone: 571-512-2470 email: rsampson@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Emmitsburg Glass Co	EG	Galaxy Glass & Aluminum	GG	Service Glass Industries	SG
Bryan Angle 301-447-2245		Chris Brown 603-626-1800		Steven Trawick 301-473-5500 ext. 127	
02/09/22		02/28/22		02/09/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 1,702,300		\$ 1,404,920		\$ 1,860,000	
\$ 90,998 5.3%		\$ 90,158 6.4%		\$ 156,658 8.4%	
<b>\$ 1,793,298 20%</b>		<b>\$ 1,495,078</b>		<b>\$ 2,016,658 35%</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
Turner Construction Company's Environmental Health and Safety Program																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n		n/a		y				y			
	5	Breakout Cost for Full Time Safety Manager	y			tbd			y					n/a		
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y			
Bid Acknowledgements																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y							
Contract Attachments																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
	6	AP-5 BIM Requirements	y		y				y				y	excl BIM, provide CAD		
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y				y	see add alt		
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
	11	Bid valid for 90 days	y		y				y				n	60 days		
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y								y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
Key Quantities and Breakouts (Populate Below)																
	1	Total Manhours	#													
	2	Peak # of Workers anticipated	#													
	3	Provide breakout of escalation costs	#													
	4															
	5	<b>Curtainwall Type CW-1:</b>														
	6	Insulated Metal Wall Panels - MPa	sf		sf	3,143			sf	4,103			sf	650		
	7	Insulated Metal Wall Panels - MPb	sf		sf	incl above			sf	incl above			sf	2,350		
	8	1" Fritted Insulating Glazing Unit - F1	sf		sf	554			sf	5,311			sf	850		
	9	1" Clear Vision Insulating Glazing Unit - V1	sf		sf	1,326			sf	incl above			sf	550		
	10	1" Spandrel Insulating Glazing Unit - S1	sf		sf	288			sf	incl above			sf	350		
	11															
	12	<b>Aluminum Storefront Assembly: SF-1</b>	sf						sf	4,860			sf	5,650		
	13	Insulated Metal Wall Panels - MPa	sf		sf	933			sf	incl above			sf	incl above		
	14	1" Fritted Insulating Glazing Unit - F1	sf		sf	278			sf	incl above			sf	incl above		
	15	1" Clear Vision Insulating Glazing Unit - V1	sf		sf	3,102			sf	incl above			sf	incl above		
	16	1" Spandrel Insulating Glazing Unit - S1	sf						sf	incl above			sf	incl above		
	17	1" Translucent Insulating Glazing Unit - TR	sf		sf	205			sf	incl above			sf	incl above		
	18	Mesh Panel System - MS-1A (Parking Garage)	sf										sf	no, should be div 05 Misc Metals		
	19	Perforated Panel System - SF-1 (Parking Garage)	sf		sf	785 (incl glass)			sf	Base bid has G2 glass/ILO perf panels			sf	1,350		
	20	1" Insulated Glazing Unit - SF-1 (Parking Garage)	sf						sf	801 (incl G2 glass ILO perf panels)						
	21	Horizontal Sun Control Devices	lf		lf	856			lf	304			lf	344		





	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y			y												
<b>B. Documents</b>																			
	The Work shall consist of 08 Glass and Glazing Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																		
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y			y												
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y			y												
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y				n/a	y												
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y			y												
5	RFI Log dated - TBD	y		y			y											01/14/22	
6	Specifications																		
	- Division 00 - Procurement and Contracting Requirements (Complete)	y		y			y												
	- Division 01 - General Requirements (Complete)	y		y			y												
	- 055000 - Metal Fabrications (as it applies to this scope)	y		y			y					n						n/a	
	- 074213.29 - Insulated Metal Wall Panels	y		y			y					y							
	- 076200 - Sheet Metal Flashing and Trim (as it applies to this scope)	y		y			y					n						n/a	
	- 078400 - Fire Stopping (as it applies to this scope)	y		y			y					y							
	- 079200 - Joint Sealants	y					y					y							
	- 084229 - Automatic Entrances (as it applies to this scope)	y				n	none	ok	n	not incl		n						n/a	
	- 084313 - Aluminum Framed Storefronts	y		y			y					y							
	- 084413 - Glazed Aluminum Curtainwall	y		y			y					y							
	- 087100 - Door Hardware (as it applies to this scope)	y					y					y							
	088000 - Glazing	y		y			y					y							
	088300 - Mirrors	y					y					y						n	
	- 088813 - Fire Rated Glazing	y		y			y					y						n	
	-																		
<b>C. Inclusions</b>																			
<b>STANDARD REQUIREMENTS</b>																			
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y			y					y							
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y			y					y							
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y				n/a	n/a					y							
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y			y					y							
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y			y	as noted				y						excl blocking	
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y				n/a	n/a					y						n/a	
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y										y						n	n/a
8	All work performed shall be per governing codes	y		y			y					y						n	n/a
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y			y					y							
10	Include field measurement as required prior to fabrications	y				n						y						n	as schedule allows
<b>SPECIFIC SCOPE ITEMS</b>																			
<b>Preconstruction</b>																			
11	Advise the Project Team of material availability and long lead material and equipment items if they differ from the schedule below. Continuous review and evaluation of the design documents for constructability, operability, cost (budget) considerations, and recommendations to improve, optimize constructability; site logistics and sequencing.	y		y			y					y							
12	Advise the Project Team on construction means & methods, potential safety hazards, and construction process feasibility. The feasibility of off-site pre-fabrication will be continually investigated and strongly encouraged.	y		y			y					y							
13	Prepare coordinated shop drawings. Shop drawings shall show how the work of this subcontract is to be installed in relation to the work of other trades. This includes MEP trades whose work may require penetrations in this scope of work (i.e. lighting, fire protection devices, pipes etc.). Work installed in conflict with the work of other trades (as a result of improper coordination) shall be corrected at this Subcontractor's expense.	y		y			y					y						last sentence too open ended	
14	Provide all shop drawings and calculations & analyses prepared, stamped and sealed by a Registered Professional Engineer, licensed in the project jurisdiction.	y		y			y					y						excl shop drawings	
15	Provide information and data to support LEED compliance. Participate in defining and developing potential Sustainable Design initiatives to achieve LEED certification.	y		y			y					y							
16	Subcontractor shall participate in meetings with Project Team to coordinate exterior wall details. The purpose of these meetings is to create a Continuity of Weather barrier, Compatibility of Products, etc. between all Exterior Wall & Roofing Products and assemblies.	y		y			y					y							
<b>Construction</b>																			
17	Throughout the design, fabrication, and installation of this work, coordinate adjacent, penetrations, openings, terminations, intersections, or interactions of work by other trades.	y		y			y					y							
18	Basis of design for Glazed Aluminum Curtainwall is pressure cap at horizontals with two-sided SSG at verticals. Design and size components to withstand load ((wind, seismic, Interstory Differential Movement, and movement) requirements as required.	y		y			y					y							



19	Provide all exterior glass & glazing systems (SF-1, CW-1, MPa&b, MS-1A) , including but not limited to aluminum framed entrances, punched windows, aluminum framed storefronts, insulated metal wall panels, mesh panel infill assembly and glazed aluminum curtainwalls.	y		y		y			y	excl MS-1					
20	Provide all interior glass & glazing systems including, but not limited to, door lites, frameless mirrors, sliding transaction windows, etc.	y		y	excl framed mirrors		y		n						
21	Provide completed glazing assemblies to maintain building continuity of building enclosure vapor barrier and air barrier.	y		y			y		y						
22	Provide fire-rated glazing, films, and coatings on glass and glazing where indicated for interior and exterior. Films are to be mylar type with tint as indicated by manufacturer's designation or polyester typewith an acid etch color as required. Provide opacifying coatings at exterior spandrel placed on the surface facing the interior as indicated. Hollow metal framing and all accessories needed for a complete install at these locations to be provided by others.	y		y			y	add for 62 sf of film	GG	n	\$2,625	GG			
23	Provide warranties as specified. All warranties start from date of substantial completion.	y		y			y		y						
24	Provide finish coating on all glazed aluminum curtainwall, windows and aluminum framed storefronts and doors as indicated.	y		y			y		y						
25	Provide aluminum framing where indicated for interior glass and glazing.	y		y	excl HM		y		n						
26	Provide joint firestopping, including but not limited to firestop joint spray between the curtainwall and slab edge.	y		y			y		y						
27	Provide all joint sealants, including acoustical and preformed as required within all exterior glass and glazing systems and between adjacent exterior systems. All joint sealants and flashings to have two lines of defense, a primary and a secondary.	y		y			y		y	excl acoustical & preformed					
28	Provide all necessary shims, glazing tape, clips, compressible foam filler, insulation, flashing, counterflashing as well as any other accessories and hardware required for a complete install of interior and exterior glass and glazing.	y		y			y		y	excl compressible foam filler					
29	Provide special attention to connection details in stairs where connections to steel are anticipated to be exposed to view.	y		y			y		y						
30	Provide all aluminum framed storefronts and exterior swing doors as indicated. Provide all hardware for exterior doors of this scope and temporary cores for use by the Contractor prior to completion. Final cores to be provided by others	y		y	excl dr #100		y		y						
31	Provide weatherstripping, sill sweep strip and threshold for each door.	y		y			y		y						
32	For exterior doors with electrified panic exit devices, provide appropriate power supply to function with specified panic(s) where required.	y		y			y		y	power supply by others					
33	Provide flush joints and corners, weather sealed, accurately fitted and secured; prepared to receive anchors, fasteners, and attachments concealed from view; reinforced for imposed loads.	y		y			y		y						
34	Provide a Test Pressure Differential water test as indicated to ensure water penetration resistance.	y		y	labor only		y		y	4 tests incl					
35	Provide Horizontal Sun Control Devices (SS1 and SS2) as indicated. Provide steel reinforced mullions as required for support.	y		y			y		y						
36	Provide shadow boxes with 1/4 inch thick aluminum.	y		y			y		n	n/a					
37	Provide Insulated Metal Wall Panels (MP-a and MP-b) within the curtainwall system. Weep holes and drainage channels must be unobstructed and free of dirt and sealant.	y		y			y		y						
38	Provide perforated metal panels system MP-4A at maintance building only where the system is mounted to the storefront framing system S1	y		n	add for Parasoleil panels + labor & install	\$48,308	Turner	n	add for Parasoleil panels + labor & install	\$48,308	Turner	n	add for Parasoleil panels + labor & install	\$48,308	Turner
39	Provide perforated metal panels system with 24% openings at the Parking Garage where indicated for aluminum storefront (SF-1)	y		y			y	add for Parasoleil panels + labor & install	GG	y	\$73,535				
40	Provide mesh panel system (MS-1) at the Parking Gagarge stair tower exterior walls. Mesh panels to have 75% pattern openings.	y		y			y	Revised pricing for correct quantity	GG	n	\$63,035	GG			
41	Provide fibrous insulation in shim spaces at perimeter assembly to maintain continuity of thermal barrier.	y		n			y		n	not shown					
42	Provide all supports required for complete installation of the work of this trade - including those to be attached to primary building structure. Provide details and coordination with other trades.	y		y			y		n	by others					
43	Provide continuous stainless steel flashing pan with back end dams where indicated.	y		y			y		y						
44	For exterior glazed aluminum curtainwall, glass type is as indicated and to be installed using dry method with glass type thickness to comply with performance requirements indicated in section 448.	y		y			y		y						
45	Install glazing in compliance with written instructions of glass, gaskets and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.	y		y			y		y						
46	For interior glazing hollow metal steel frames, glass type is as indicated and to be installed using wet method with Type GC-3 glazing compound.	y					y		n						
47	For interior glazing of wood doors, glass type is as indicated and to be installed using wet method with Type GC-1 glazing compound.	y					y		n						
48	Provide firesafing between slab edge and curtainwall system.	y		y			y		y						
49	Provide blocking as needed.	y		y			n		n						
50	Provide edge of slab connection / structure details that connect to the vertical edge and has a finished look from interior and exterior	y		y			y								
51	Provide patch, repair and paint touch-ups	y		y			y		y	only if damage by SGI					
52	Where Decorative Metal Screen System (MP-4a) panels occur at the curtainwall, provide reinforced curtainwall mullions. Coordinate with Metal Panel subcontractor.	y		y			y		y						
53	Provide an allowance for glass breakage and mullion touch-ups.	y		y			y		y						
54	Provide field water tests according to AAMA 501.2 as designated by the architect.	y		y	field support		y		y						
55	Coordinate and provide curtainwall or windows for Mock-Up as required per spec 074264 Metal Composite Material Wall Panels and 084413 Glazed and Aluminum Curtainwalls.	y		y			y		n						
56	Provide offsite storage for glass and glazing and provide an inventory list. Coordinate any onsite storage with Turner.	y		y			y		n	glass stored onsite					
57	This scope is subject to the responsibilities, participation, testing and documentation required per Specification Section 019115 Facility Enclosure Commissioning.	y		y			y		y						
58	Provide a final cleaning upon completion of installation according to AAMA 609 & 610.	y		y			y		n						



59	Assume automatic entrances will be required at Lobby 101 (2 ea), at single door include 3 push button contrals and exterior pedestal. Provide a unit cost. (assume for doors 100, 101, 331.1, 331.2)	y		n	\$34,350	GG	n	\$5,725/ea	\$34,350	GG	n	\$34,350	GG
60	Covid Testing	y		n	\$840	Turner	n		n/a	Turner	n	\$840	Turner
61	Provide protection of installed												
<b>D. Exclusions</b>													
1	F&I Metal Panel Systems outside of the curtainwall - by Metal Panels	n		n			n				n		
2	F&I Decorative Metal Screen System - by Metal Panels	n		n			n				n		
3	Hollow Metal Storefronts and Frames - by Doors, Frames & Hardware	n		n			n				n		
4	Wood Doors - by Doors, Frames & Hardware	n		n			n				n		
5	Final cleaning - by Final Cleaners	n		n			n				n		
6	Insulation within CFMF wall - by Drywall	n		n			n				n		
7	Door hardware and temporary cores for interior doors - by Doors, Frames & Hardware	n		n			n				n		
8	Final cores for exterior and interior storefront doors - by Doors, Frames & Hardware	n		n			n				n		
9	Structural Steel supports outside of the curtainwall and storefront systems - by Structural Steel	n		n			n				n		
10	Framed Mirrors - by Interiors	n		n			n				n		
11	Counterflashing per details 6&7 on A3-002 - by Metal Panels	n		n			n				n		
12	Blocking as shown on the contract documents - Drywall	n		n			n				n		
13	Mesh Panel System outside of the Parking Garage Stair Towers - Misc Metals	n		n			n				n		
<b>E. Special Trade Requirements</b>													
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%		td							0%	
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y									y		
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y									y		
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y									n		
b	Office Policy [ Or Project Specific)	y											
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y											
4	Includes escalation of labor and material costs	y											
<b>F. Schedule</b>													
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.												
1	Review and comply with Turner Schedule (AP-6)	y											
2	Duration for submittals and shop drawings, in working days	?											
3	Duration for fabrication and delivery, in working days	?											
4	Installation duration, in working days	?											
<b>Allowances</b>													
A	1 Allowance for Broken Glass	y		n	\$2,500	Turner	n	\$2,500	Turner	n	\$2,500	Turner	
A	2 Allowance for Storefront Mullion Touch Up	y		n	\$5,000	Turner	n	\$5,000	Turner	n	\$5,000	Turner	
A	3												
<b>G. Alternates</b>													
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.												
1	100% Payment & Performance Bonds on Turner Forms	y										\$51,300	
2	Provide add alternate for onsite WC and GL insurance	y										\$10,600	
3	Furnish and Install Tubular Skylights by Solatube	y		n									
<b>H. Unit Prices</b>													
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.												
1													
2													
3													



note: RFI 70 says spec updated with add'l manufacturer, but we did not receive spec  
RFI response waived Miami Dade Cert.

### 08 Louvers

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ 6PM**  
 AP1 Date **1/12/2022, Updated 1/26/2022**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Greg Hammer, 484-684-4348, ghammer@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

H&B Engineered Products		H&B	Pollock and Guy		PG
Bradey Jump +1 703-727-3508 (111) 111-1111 <a href="mailto:bradey.jump@hbproducts.com">bradey.jump@hbproducts.com</a>			Adam Pollock 301-592-1800 240-893-3355 <a href="mailto:adam.pollockandguy@gmail.com">adam.pollockandguy@gmail.com</a>		
02/02/22			02/02/22		
<b>FULLY SCOPED</b>			<b>FULLY SCOPED</b>		
	\$ 18,015			\$ 2,900	
	\$ 8,077	44.8%		\$ 26,100	900.0%
	<b>\$ 26,092</b>			<b>\$ 29,000</b>	11%
<b>SUBSTITUTE PRODUCT</b>					

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>												
	1	Turner Construction Company's Environmental Health and Safety Program	y		n/a				n/a			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		n/a				n/a			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		n/a				n/a			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n/a				n/a			
	5	Breakout Cost for Full Time Safety Manager	y		n/a				n/a			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		n/a				n/a			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		n/a				n/a			
<b>Bid Acknowledgements</b>												
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		n/a				n/a			
<b>Contract Attachments</b>												
	2	AP-1 Statement of Work dated 1/12/2022	y		n/a				n/a			
	3	AP-2 Documents List dated 10/22/2021	y		n/a				n/a			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		n/a				n/a			
	5	AP-4 Logistics Plan dated 12/22/2021	y		n/a				n/a			
	6	AP-5 BIM Requirements	y		n/a				n/a			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y									
	8	AP-7 Equipment Coordination Matrix dated 1/25/2022	y		n/a				n/a			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		n/a				n/a			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		n		\$1,477		y	\$570		
	11	Bid valid for 90 days	y									
	12	Retainage: 5%	y									
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y									
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y									
<b>Key Quantities and Breakouts (Populate Below)</b>												
	1	Total Manhours	#									
	2	Peak # of Workers anticipated	#									
	3	Provide breakout of escalation costs	#									
	4	Total count of louvers - OMF Building	#									
	5	Total count of louvers - Parking Garage	#									
	6	Total SF of louvers	#									
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>												
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?									
	2	Where do the materials come from?	?									
	3	What is lead time for materials?	?									
	4	Identify Major Subcontractors	?									
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?									
<b>Prequalification</b>												



1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?											
2	Turner Prequalification Number:	?											
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?											
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?											
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?											
6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR										
7	Include Payment and Performance Bond	n	_____ %										
<b>Price</b>													
Price:													
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.													
Company:													
Individual:													
Title:													
Signature:													
Date:													
<b>AP-1 Statement of Work</b>					<b>H&amp;B Engineered Products</b>			<b>B1</b>		<b>Pollock and Guy</b>		<b>B1</b>	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF					0					0			
08 Louvers					-					-			
1/12/2022, Updated 1/26/2022													
					y/n/Sub								
<b>A. General</b>													
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y											
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 08 Louvers scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y											
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y											
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y											
<b>B. Documents</b>													
	The Work shall consist of 08 Louvers Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:												
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021	y											
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y											
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y											
	4 Phase IV Submission for GMP Specifications dated 12/21/2021	y											
	5 RFI Log dated 2022 Jan 07	y											
	6 Specifications												
	- Division 00 - Procurement and Contracting Requirements (Complete)	y											
	- Division 01 - General Requirements (Complete)	y											
	089100 - Louvers	y											
	- 072500 - Weather Barriers (as relates- sealing frames to weather barrier in adjacent construction)	y											
	- 076200 - Sheet Metal Flashing and Trim	y											
	- 079200- Joint Sealants (as relates- sealing joints to adjacent construction)	y											
	- 233100 - HVAC Duct and Casings (as relates- duct attachment to louvers)	y											
	7 Addendum 1 - Revised Civil Drawings												
<b>C. Inclusions</b>													
<b>STANDARD REQUIREMENTS</b>													
	1 Includes Hoisting/Rigging/Scaffolding Required for your Work	y					n/a					n/a	
	2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y					n/a					n/a	



3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			n/a				n/a			
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			n/a				n/a			
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			n/a				n/a			
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			n/a				n/a			
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y			n/a				n/a			
8	All work performed shall be per governing codes	y			n/a				n/a			
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y			n/a				n/a			
10	Include field measurement as required prior to fabrications	y			n				n			
<b>SPECIFIC SCOPE ITEMS</b>												
11	Provide louvers as shown in contract documents, including drawings M-111 (6 louvers total), M1-141 (2 louvers total), and PG-M1-111, PG-M1-121, PG-M1-131 (2 total each floor, 6 total for building), and detail on PG-M5-101. Assume that louvers in Parking Garage are 24" x 24". Note to provide louvers for the EF-7 and intake in Battery Rm 127 on dwg M1-111 in stainless steel, although no louvers are noted in this location. Provide both as 18" x 18" louvers.	y			y				n	SST louvers are not AMCA	\$20,000	Turner
12	Provide shop drawings, samples, test reports and manufacturer's certificate as called for in the specifications (ref 089100-1.4)	y			n	will provide louver shops, not building details			n	will provide louver shops, not building details		
13	Provide 20-year warranty including finish (ref spec 089100-1.6)	y			y				y			
14	Provide insect screens and bird screens where shown as called for in the specifications (ref spec 089100-2.2.A.4 & 2.4)	y			y				n		\$1,400	H&B
15	Provide Superior Performing Organic Coating System (PVDF) as specified (ref spec section 089100-2.3)	y			y				y			
16	Provide initial cleaning of louvers per spec section 089100-3.3 - strip protective finish coverings and clean surfaces and components.	y			n	Install not included. \$5200 carried with RC			n	Install not included. \$5200 carried with RC		
17	Verify all field measurements prior to fabrication	y			n				n			
18	ATTACHMENT CLIPS	y			n		\$4,200	Turner	n	not incl	\$4,200	Turner
<b>D. Exclusions</b>												
1	RTU metal panel screenwall (Ref A1-341) panels are by Metal Panel Subcontractor (may be provided as Alternate Price)	n										
2	Caulking around the louvers is by Joint Sealant Subcontractor	n										
<b>E. Special Trade Requirements</b>												
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#										
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y										
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y										
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y										
b	Office Policy [ Or Project Specific)	y										
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y										
<b>F. Schedule</b>												
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.												
1	Review and comply with Turner Schedule (AP-6)	y										
2	Duration for submittals and shop drawings, in working days	?										
3	Duration for fabrication and delivery, in working days	?										
4	Installation duration, in working days	?										
<b>Allowances</b>												
A	1 Louvers for Mechanical Room on roof of Parking Garage -assume 2 louvers. RFI-093 states see Mech dwg for duct sizes, no duct shown	y/n			y	\$2,400	\$2,400	H&B	y	\$500	\$500	PG
<b>G. Alternates</b>												
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.												
1	100% Payment & Performance Bonds on Turner Forms	y										
2	Provide add alternate for onsite WC and GL insurance	y										
<b>H. Unit Prices</b>												



	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.							
1								
2								
3								



**08 OH Doors and Grilles**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/19/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Estimator Tucker Winfrey 571-612-9492 twinfrey@tcco.com

B&R Associates	B&R	Charles H Hodges & Son Inc	H&S	Overhead Door Company	ODC
Rich Stewart 240-372-4373 rstewart@bandrassociates.com		Matt Roberts 410-467-8910 410-215-5735 matt@chhodes.com		Myles Holloway 301-937-1800 nylesholloway@overheaddoors.com	
01/27/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 249,659		\$ 268,898		\$ 398,468	
\$ 25,000 10.0%		\$ - 0.0%		\$ 3,875 1.0%	
<b>\$ 274,659 2%</b>		<b>\$ 268,898</b>		<b>\$ 402,343 50%</b>	
Provided an accepted alternate manufacturer to the BOD		Provided an accepted alternate manufacturer to the BOD		Basis of design ^	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
1		Turner Construction Company's Environmental Health and Safety Program	y		y											
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y											
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y											
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y											
5		Breakout Cost for Full Time Safety Manager	y		y											
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y											
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y											
<b>Bid Acknowledgements</b>																
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y											
<b>Contract Attachments</b>																
2		AP-1 Statement of Work dated 1/12/2022	y		y											
3		AP-2 Documents List dated 10/22/2021	y		y											
4		AP-3 Supplementary Provisions dated 1/14/2022	y		y											
5		AP-4 Logistics Plan dated 12/22/2021	y		y											
6		AP-5 BIM Requirements	y		y											
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y											
8		AP-7 Equipment Coordination Matrix dated - TBD	y		y											
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y											
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y		[14841]		y			
11		Bid valid for 90 days	y		y								y			
12		Retainage: 5%	y		y								y			
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y								n			
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y											
15		Arlington Contractor Covid Policy	y		y	n/a			y	n/a			n		\$3,875	ODC
<b>Key Quantities and Breakouts (Populate Below)</b>																
1		Total Manhours	#		#	256							#			
2		Peak # of Workers anticipated	#		#	6							#			
3		Provide breakout of escalation costs	#		#	15% Material 7% Labor							#			
4		Count of door type OVHD-SEC: Overhead-sectional	#		#	9			#	9			#	9		
5		Count of door type OVHD-CL: Overhead-coiling	#		#	2			#	2			#	2		
6		Count of door type OVHD-CL: Garage Overhead-coiling	#		#	0			#	2			#	2		
7		Count of door type OVHD-CL: Overhead-coiling-vision-glass	#		#	2			#	2			#	2		
8		Count of door type CNTR-CL: Counter-coiling	#		#	1			#	1			#	1		
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	Company workforce										
2		Where do the materials come from?	?		?	PA & NC										
3		What is lead time for materials?	?		?	6-16 week										
4		Identify Major Subcontractors	?		?											
5		Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?	0										
<b>Prequalification</b>																
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?											
2		Turner Prequalification Number:	?		?											
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?											
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?		?											
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?											
6		Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR	?	1.52			?	1.00			?	0.93		
7		Include Payment and Performance Bond	n	%	n	1.5%			n	3%			n	1%	[3938]	
<b>Price</b>																
Price:																





17	Basis of design: OVHD-CL-GI - Overhead Door, Stormite AP 627 Series	y		y	ESD 10 by Cookson (Listed as accepted manufacturer)	[\$17,666]		y	Model CESD30 (Accepted Alt on Spec)		y	
17	Basis of design: CNTR-CL - Overhead Door, Model 650 Series	y		y	ESD 20 by Cookson (Listed as accepted manufacturer)	[\$6,534]		y	Model CESC10 (accepted alt on spec)		y	
18	Basis of design - Garage rapid coiling door: Rye Tech spiral VT	y		y	Hormann Model SG 5000	[\$53,293]		y	Hormann Model SG 5000		y	
19	Acceptable manufacturers:	y		y				y			y	
20	C.H.I. Overhead Doors	y		n				n			y	
21	Clopay Building Products	y		n				y				
22	The Cookson Company	y		y				y				
23	Garage - Ryetec, ASI, hormann, overhead door Corp.	y		y				y			y	
24	Parking garage overhead coiling doors 104A and 104D	y		y		[\$27,814]	B&R	y		H&S	y	
25	Include wiring of controls	y		y	has controls			y	has controls		y	has controls
<b>D. Exclusions</b>												
1	Provide wiring for all overhead doors w/ electrical	n										
2	Wood Blocking for OH Door w/ Drywall	n										
<b>E. Special Trade Requirements</b>												
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%									
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y										
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y										
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y										
b	Office Policy [ Or Project Specific)	y										
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y										
<b>F. Schedule</b>												
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.											
1	Review and comply with Turner Schedule (AP-6)	y										
2	Duration for submittals and shop drawings, in working days	?										
3	Duration for fabrication and delivery, in working days	?										
4	Installation duration, in working days	?										
<b>G. Alternates</b>												
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein.											
1	100% Payment & Performance Bonds on Turner Forms	y										
2	Provide add alternate for onsite WC and GL insurance	y										
3												
<b>H. Unit Prices</b>												
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.											
1												
2												
3												



## 08 Skylights

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Rachael Sampson, phone: 571-512-2470 email: rsampson@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

<b>CBG South</b>		CS
Patrick Cody 410-995-6400 <a href="mailto:pat@cbgsouth.com">pat@cbgsouth.com</a>		
01/27/22		
<b>FULLY SCOPED</b>		
\$	16,045	
\$	560	3.5%
<b>\$</b>	<b>16,605</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>								
	1	Turner Construction Company's Environmental Health and Safety Program	y					
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y					
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y					
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y					
	5	Breakout Cost for Full Time Safety Manager	y					
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y					
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y					
<b>Bid Acknowledgements</b>								
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y					
<b>Contract Attachments</b>								
	2	AP-1 Statement of Work dated 1/12/2022	y					
	3	AP-2 Documents List dated 10/22/2021	y					
	4	AP-3 Supplementary Provisions dated 1/14/2022	y					
	5	AP-4 Logistics Plan dated 12/22/2021	y					
	6	AP-5 BIM Requirements	y					
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y					
	8	AP-7 Equipment Coordination Matrix dated - TBD	y					
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y					
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y				<b>\$560</b>	TC
	11	Bid valid for 90 days	y					
	12	Retainage: 5%	y					
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y					
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y					
<b>Key Quantities and Breakouts (Populate Below)</b>								
	1	Total Manhours	#					



2	Peak # of Workers anticipated	#				
3	Provide breakout of escalation costs	#				
4		#				
5	Roof Tubular Skylights	ea.			4	
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>						
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?				
2	Where do the materials come from?	?				
3	What is lead time for materials?	?				
4	Identify Major Subcontractors	?				
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?				
<b>Prequalification</b>						
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?				
2	Turner Prequalification Number:	?				
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?				
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?				
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?				
6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR _____			
7	Include Payment and Performance Bond	n	_____ %			
<b>Price</b>						
Price:						
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.						
Company:						
Individual:						
Title:						
Signature:						
Date:						
<b>P-1 Statement of Work</b>					<b>CBG South</b>	<b>B1</b>
<b>(T) Operations and Maintenance Facility - AOMF</b>					0	
<b>08 Skylights</b>					-	
01/12/22					y/n	Sub
<b>A. General</b>						
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y				
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 08 Skylights scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y				



	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y				
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y				
<b>B. Documents</b>						
	The Work shall consist of 08 Skylights Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:					
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y				
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y				
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y				
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y				
5	RFI Log dated - TBD	y				
6	Specifications	y				
	- Division 00 - Procurement and Contracting Requirements (Complete)	y				
	- Division 01 - General Requirements (Complete)	y				
	- 079200 - Joint Sealants	y				
	- 086223 - Tubular Skylights	y				
<b>C. Inclusions</b>						
<b>STANDARD REQUIREMENTS</b>						
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y				
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y				
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y				
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y				
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y				
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y				
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y				
8	All work performed shall be per governing codes	y				
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y				
10	Include field measurement as required prior to fabrications	y				
<b>SPECIFIC SCOPE ITEMS</b>						
<b>Preconstruction</b>						
11	Prepare coordinated shop drawings. Shop drawings shall show how the work of this subcontract is to be installed in relation to the work of other trades. This includes MEP trades whose work may require penetrations in this scope of work (i.e. lighting, fire protection devices, pipes etc.). Work installed in conflict with the work of other trades (as a result of improper coordination) shall be corrected at this Subcontractor's expense.	y				
12	Provide information and data to support LEED compliance. Participate in defining and developing potential Sustainable Design initiatives to achieve LEED certification.	y				
13	Subcontractor shall participate in meetings with Project Team to coordinate exterior wall details. The purpose of these meetings is to create a Continuity of Weather barrier, Compatibility of Products, etc. between all Exterior Wall & Roofing Products and assemblies.	y				



<b>Construction</b>						
14	Provide a transparent roof-mounted skylight dome and curb, reflective tube, and ceiling level diffuser assembly by Solatube as indicated.	y				
15	Provide a complete skylight assembly that is watertight, designed to ensure water will not accumulate inside the assembly.	y				
16	Test skylight in accordance with ASTM E331.	y				
17	Provide all accessories needed for a complete install including but not limited to fasteners, coping, flashing, joint sealant, etc.	y				
18	Install skylight complete according to manufacturer's instructions.	y				
19	Throughout the design, fabrication, and installation of this work, coordinate adjacent, penetrations, openings, terminations, intersections, or interactions of work by other trades.	y				
20	This scope is subject to the responsibilities, participation, testing and documentation required per Specification Section 019115 Facility Enclosure Commissioning.	y				
<b>D. Exclusions</b>						
1	Roof parapet assembly - by Roofing	n				
2	Roofing system at roof parapet - by Roofing	n				
3						
4						
5						
6						
7						
<b>E. Special Trade Requirements</b>						
1	% <b>UBE - Underutilized Business Enterprise</b> (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%			
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y				
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y				
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y				
b	Office Policy [ Or Project Specific)	y				
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y				
<b>F. Schedule</b>						
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.						
1	Review and comply with Turner Schedule (AP-6)	y				
2	Duration for submittals and shop drawings, in working days	?				
3	Duration for fabrication and delivery, in working days	?				
4	Installation duration, in working days	?				
					Yes/No -->	<b>yes</b>
<i>Subcontractor Bid</i>					\$	16,045
<i>Total Adjustments</i>					\$	560
<b>Leveled Total Bid</b>					\$	<b>16,605</b>
					<b>LOW BID</b>	<b>1</b>
<b>G. Alternates</b>						
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.						



1	100% Payment & Performance Bonds on Turner Forms	y				
2	Provide add alternate for onsite WC and GL insurance	y				
3						
<b>H. Unit Prices</b>						
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.					
1						
2						
3						

**09 Drywall/Rough Carpentry**

Project	Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF
Job #	2005
A/E	Stantec Architecture Inc.
Bid Date	12/22/22 @ NOON
AP-1 Date	01/19/22
Est	Scott Stevenson
Proj	Johnnie Lanham
Ops	Derek Brown

Legend
Y INCLUDED
N EXCLUDED
Q QUESTION
# QUANTITY

Azteca Contractors	Chiaramonte Construction	Commonwealth wall systems	JP Construction	Pillar construction	Tricon construction	C2 Construction Services	CJ Coakley
Nicholas Mariscal 703-855-8285 nmariscal@aztecacontractors.com	Bill Bennett 202-962-0027 202-313-2555 bbennett@cc-builder.com	Richard Tinsley 540-421-8286 rtinsley@common-wall.com	Luis Cartagena 703-492-2220 703-898-3838 lcartena@jpconstruction.com	Fadi Abouhadid 703-941-5891 fahadid@pillarconstruction.com	Christian Vargas 240-375-8846 cvargas@triconmail.com	Paul Osei 871-379-5684 202-200-6501 paul@2construction.com	Carolyn Bloom 703-641-7648 cbloom@coakley.com
01/28/22	01/27/22	01/27/22	01/28/22	01/27/22	01/27/22	01/27/22	01/27/22
FULLY SCOPED	FULLY SCOPED	FULLY SCOPED	FULLY SCOPED	FULLY SCOPED	FULLY SCOPED	NO	FULLY SCOPED
\$ 1,445,400	\$ 2,275,588	\$ 1,667,000	\$ 1,692,285	\$ 1,667,000	\$ 1,605,000	\$ 1,388,000	\$ 1,591,000
\$ 82,900 5.7%	\$ 28,000 1.2%	\$ 17,400 1.0%	\$ 16,000 0.9%	\$ 16,000 0.9%	\$ 62,700 3.9%	\$ 131,500 9.5%	\$ 16,000 1.0%
\$ 1,528,300	\$ 2,303,588 5.1%	\$ 1,684,400 10%	\$ 1,708,285 17%	\$ 1,683,000 10%	\$ 1,667,700 9%	Incomplete	\$ 1,607,000 5%

Item	Description	Y/N	Sub Response	Y/N	Text	Adjustments	Plug																
1	Turner Construction Company's Environmental Health and Safety Program	Y		Y				Y				Y											
2	Turner Construction Company's Environmental Health and Safety Program	Y		Y				Y				Y											
3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	Y		Y				Y				Y											
4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period 2.2 weeks.	Y		Y				Y				Y											
5	Breakout Cost for Full Time Safety Manager	Y		Y				Y				Y											
6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	Y		Y				Y				Y											
7	Include involvement with all Building L.F.F.E requirements (including Daily Muster & Stretch & Flex)	Y		Y				Y				Y											
<b>Bid Acknowledgments</b>																							
1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	Y		Y				Y				Y											
<b>Contract Attachments</b>																							
2	AP-1 Statement of Work dated 1/12/2022	Y		Y				Y				Y											
3	AP-2 Documents List dated 10/22/2021	Y		Y				Y				Y											
4	AP-3 Supplementary Provisions dated 11/4/2022	Y		Y				Y				Y											
5	AP-4 Logistics Plan dated 12/22/2021	Y		Y				Y				Y											
6	AP-5 BIM Requirements	Y		Y				Y				Y											
7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	Y		Y				Y				Y											
8	AP-7 Equipment Coordination Matrix - dated: TBD	Y		Y				Y				Y											
9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and DL as an add alternate. Include all other applicable insurances	Y		Y				Y				Y											
10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	Y		Y				Y				Y											
11	Bid valid for 90 days	Y		Y				Y				Y											
12	Retainage: 5%	Y		Y				Y				Y											
13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00/day for each calendar day beyond Final Project Completion	Y		Y				Y				Y											
14	LEED LEED Silver: Project is striving for minimal environmental impact	Y		Y				Y				Y											
15	Arlington Contractor Covid Policy	Y		Y				Y				Y											

<b>Key Quantities and Breakouts (Populate Below)</b>																							
1	Total Manhours	#		#	10450			#	20000			#		#	14000			#	14500				
2	Peak # of Workers anticipated	#		#	25			#	25			#		#	20			#	20				
3	Provide breakout of escalation costs	#		#				#				#		#	6%			#					
4	Rough Carpentry	#		#				#				#		#				#					
5	Number of Hollow metal/wood doors installed EA	#		#	111			#	112			#		#	120			#					
6	Number of Hollow metal/wood frames installed EA	#		#	111			#	112			#		#	112			#					
7	Number of fire extinguisher dispensers installed EA	#		#				#	5			#		#				#					
8	Breakout for installation div 10 accessories Lump Sum	#		#				#				#		#				#					
9	Drywall/Ceiling	#		#				#				#		#	5500			#					
10	PA1 SF	#		#	19500			#	990			#		#	465			#					
11	P1B SF	#		#	8200			#	3700			#		#	7545			#					
12	P1B SF	#		#	8310			#	8075			#		#	4500			#					
13	ADA SF	#		#	9720			#	9162			#		#	10365			#					
14	ADA-G SF	#		#	3710			#	3378			#		#	6810			#					
15	ADA-G2 SF	#		#	8655			#	8520			#		#	7170			#					
16	ADA-G3 SF	#		#	7500			#	201			#		#	2010			#					
17	ADA-G2 SF	#		#	3000			#	2390			#		#	1390			#					
18	ADB SF	#		#	90			#	90			#		#	150			#					
19	ADB-G SF	#		#	360			#	597			#		#	930			#					
20	ADB-G2 SF	#		#	825			#	806			#		#	825			#					
21	FOA SF	#		#	1020			#	2497			#		#	3960			#					
22	FOA SF	#		#	1020			#	5530			#		#	4980			#					
23	FOA-GU SF	#		#	6570			#	165			#		#	n/a			#					
24	FRC-PLV SF	#		#	0			#	0			#		#	n/a			#					
25	S1A-G2 SF	#		#	3735			#	3776			#		#	7850			#					
26	S1B SF	#		#	0			#	0			#		#	0			#					
27	Drywall vertical acft. SF	#		#	608			#	891			#		#	60			#					
28	1/2 Acoustical Ceiling SF	#		#	2598			#	1994			#		#	1842			#					
29	Wood Tilt Ceiling System SF	#		#	2222			#	2124			#		#	2112			#					
30	In-wall blocking LF	#		#	1124			#	4918			#		#	3000			#					

<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																							
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?				?	self performed			?	Company workforce					?					
2	Where do the materials come from?	?		?				?	Various			?						?					
3	What is lead time for materials?	?		?	12-14 Acoustical baffles 4.8 insulator			?	6-8 Acoustical baffles			?	8-12 week wood ceiling				?	10-20 weeks mineral wood insulation			?	6-8 week wood ceiling. Acoustic baffles	
4	Identify Major Subcontractors	?		?				?				?						?					
5	Provide % UBE (Underutilized Business Enterprise) participation. There is 40% BU UBE Participation Goal	?		?				?	0%			?	100% SWAM				?						0%

<b>Prequalification</b>																								
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?				?				?						?						
2	Turner Prequalification Number	?		?				?	6821			?						?						
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?				?				?						?						
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on file or Submitted at time of Bid	?		?				?				?						?						
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]	?		?				?				?						?						
6	Provide Payment and Performance Bond Rate (Provide Rate %)	?		EMR	?	0.74		?	0.83		?	?	0.83		?	0.98		?	0.88		?	1.43	?	0.75
7	Include Payment and Performance Bond	?		n		1%		n	1%		n	2%		n	2%		n	1.25%		n	2%		n	1%

<b>Price</b>																							
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																							
Contractor:																							
Individual:																							
Title:																							
Signature:																							
Date:																							

AP-1 Statement of Work	Azteca Contractors	B1	Chiaramonte Construction	B1	Commonwealth wall system	B1	JP Construction	B1</
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**09 Flooring**

Project: Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
 Job #: 20039  
 A/E: Stantec Architecture Inc.  
 Bid Date: 1/27/2022 @ NOON  
 AP1 Date: 01/20/22  
 Est: Scott Stevenson  
 Pro: Johnnel Lanham  
 Ops: Derek Brown  
 Estimator: Melissa Makota - mmakota@tcco.com - 703.841.7091

Y	INCLUDED
N	EXCLUDED
?	QUESTION
#	QUANTITY

Source One Flooring	S1F	CB Flooring	CB	Churchville Tile and Marble	CTM	Elevation Flooring	EF	Koydol	K	CCA Floors	CCA
A. Ali (571) 375-7036 (703) 869-1752 ali@s1f.com		Pam Christensen (703) 972-2953 (703) 898-2545 pamchristensen@cbflooring.com	x 453	Jeff Ruth (410) 879-3010 jeffruth@ctm1.org		Sezgin Siyam (240) 531-2194 set@elevationflooring.com		Renzo Carranza (202) 674-9857 (202) 449-9525 renzo.carranza@koydol.com		Sean Flannery (703) 212-6344 (5712) 443-5674 sflannery@ccafloors.com	
02/02/22		01/27/22		02/01/22		01/28/22		01/27/22		01/28/22	
FULLY SCOPED		FULLY SCOPED		FULLY SCOPED		FULLY SCOPED		FULLY SCOPED		FULLY SCOPED	
\$ 125,283		\$ 147,049		\$ 139,300		\$ 137,568		\$ 137,100		\$ 132,927	
\$ 49,350 39.4%		\$ 44,196 30.1%		\$ 39,196 28.1%		\$ 84,620 61.5%		\$ 45,000 32.8%		\$ 44,196 33.2%	
\$ 174,633		\$ 191,245 10%		\$ 178,496 2%		\$ 222,188 27%		\$ 182,100 4%		\$ 177,123 1%	

A/O	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug																
	1	Turner Construction Company's Environmental Health and Safety Program	Y		Y				Y				Y				Y				Y			
	2	Turner Construction Company's Environmental Health and Safety Program	Y		Y				Y				Y				Y				Y			
	3	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	Y		Y				Y				Y				Y				Y			
	4	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	Y		Y				Y				Y				Y				Y			
	5	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	Y		Y				Y				Y				Y				Y			
	6	Breakout Cost for Full Time Safety Manager	Y		Y				Y				Y				Y				Y			
	7	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	Y		Y				Y				Y				Y				Y			
	8	Include Involvement with all Building L.I.F.E requirements (including Daily Muster & Stretch & Flex)	Y		Y				Y				Y				Y				Y			

Bid Acknowledgements																								
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	Y		Y				Y				Y				Y				Y			
Contract Attachments																								
	2	AP-1 Statement of Work dated 1/12/2022	Y		Y				Y				Y				Y				Y			
	3	AP-2 Documents List dated 10/22/2021	Y		Y				Y				Y				Y				Y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	Y		Y				Y				Y				Y				Y			
	5	AP-4 Logistics Plan dated 12/22/2021	Y		Y				Y				Y				Y				Y			
	6	AP-5 BIM Requirements	Y		Y				Y				Y				Y				Y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	Y		Y				Y				Y				Y				Y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	Y		Y				Y				Y				Y				Y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	Y		Y				Y				Y				Y				Y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	Y		Y				Y				Y				Y				Y			
	11	Bid valid for 90 days	Y		Y				Y				Y				Y				Y			
	12	Retainage: 5%	Y		Y				Y				Y				Y				Y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$7,120.00/day for each calendar day beyond Final Project Completion	Y		Y				Y				Y				Y				Y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	Y		Y				Y				Y				Y				Y			

Key Quantities and Breakouts (Populate Below)																									
	1	Total Manhours	#																						
	2	Peak # of Workers anticipated	#																						
	3	Provide breakout of escalation costs	#																						
	4	Athletic Flooring, AF-1	#	SF	#	1,008 sf	#	1,064 sf	#	1,080 sf	#	1,008 sf	#	1,188 sf	#	1,440 sf									
	5	Carpet Tile, CPT-1	#	SY	#	365 sy	#	400 sy	#	390 sy	#	344 sy	#	397 sy	#	370 sy									
	6	Carpet Tile, CPT-2	#	SY	#	245 sy	#	251 sy	#	264 sy	#	232 sy	#	262 sy	#	240 sy									
	7	Luxury Vinyl Tile, LVT-1	#	SF	#	4,890 sf	#	5,040 sf	#	5,400 sf	#	4,667 sf	#	5,069 sf	#	5,085 sf									
	8	Luxury Vinyl Tile, LVT-2	#	SF	#	400 sf	#	405 sf	#	860 sf	#	813 sf	#	500 sf	#	405 sf									
	9	Luxury Vinyl Tile, LVT-3	#	SF	#	460 sf	#	518 sf	#	Above	#	Above	#	573 sf	#	517 sf									
	10	Luxury Vinyl Tile, LVT-4	#	SF	#	1,230 sf	#	1,224 sf	#	1,320 sf	#	1,166 sf	#	1,365 sf	#	1,215 sf									
	11	Static Dissipative Tile, SDT-1	#	SF	#	630 sf	#	675 sf	#	220 sf	#	590 sf	#	737 sf	#	675 sf									
	12	Rubber Base, RB-1	#	LF	#	6,240 lf	#	6,480 lf	#	6,000 lf	#	6,170 lf	#	6,582 lf	#	6,720 lf									
	13	Walk-Off Mat, WM-1	#	SF	#	1 ea																			

Subcontractors (Provide Name, Scope UBE % and Price \$)																									
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	Sub			?	Mixed							?	Sub							
	2	Where do the materials come from?	?		?	USA		?	USA & China		?	USA					?	USA							
	3	What is lead time for materials?	?		?	4 - 12 wks		?	10 - 16 wks		?	8 - 10 wks					?	10 - 12 wks							
	4	Identify Major Subcontractors	?																						
	5	Provide ___ % UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																						

Prequalification																									
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?																						
	2	Turner Prequalification Number:	?																						
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																						
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																						
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																						
	6	Provide Payment and Performance Bond Rate [Provide Rate: ___ %]	?	EMR					?	0.92				?	0.92		?	Need to check							
	7	Include Payment and Performance Bond	?	%	n	1.50%		n			n	3%		n	1.50%		n	3%							

Price:																								
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																								
Company:																								
Individual:																								
Title:																								
Signature:																								
Date:																								

AP-1 Statement of Work																									
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF																									
09 Flooring																									
01/20/22																									
	A.	General	y/n	Sub																					
		The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	Y		Y				Y				Y				Y				Y				
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 09 Flooring scope as defined in this Statement of Work and as shown or described in the Contract Documents.	Y		Y				Y				Y				Y				Y				
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	Y		Y				Y				Y				Y				Y				
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	Y		Y				Y				Y				Y				Y				



B. Documents																					
The Work shall consist of 09 Flooring Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																					
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
4	Phase IV Submission for GMP Specifications dated 12/21/2021	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
5	RFI Log	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
6	Specifications	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- Division 00 - Procurement and Contracting Requirements (Complete)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- Division 01 - General Requirements (Complete)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- 035400 - Cast Underlayment (As Required)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- 090561 - Common Work Results for Flooring Preparation (Complete)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- 096500 - Resilient Flooring (Complete)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- 096566 - Resilient Athletic Flooring (Complete)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- 096813 - Tile Carpeting (Complete)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
	- 124813 - Entrance Floor Mats And Frames (Complete)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
<b>C. Inclusions</b>																					
<b>STANDARD REQUIREMENTS</b>																					
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	Y		N/A		N/A		N/A		Y		Y		Y		Y		Y		Y	
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
4	Include all trade relative work in the Division One Specification: Temporary Facilities, etc.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	Y		N/A		N/A		N/A		Y		Y		Y		Y		Y		Y	
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	Y		N/A		N/A		N/A		Y		Y		Y		Y		Y		Y	
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
8	All work performed shall be per governing codes	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
9	Include cost of all surveying and layout (baseline survey to be provided by others)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
10	Include field measurement as required prior to fabrications	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
<b>SPECIFIC SCOPE ITEMS</b>																					
11	Provide all carpet, resilient tile, resilient base, accessories, adhesives, and flooring transition materials complete per contract documents and per the manufacturer's recommendations.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
12	Provide all flooring transitions as applicable for the flooring condition. Provide metal transition strip at changes of flooring material per flooring/base note 4 on dwg. A7-301	Y		Y		Y		Spec needed		Y		Y		Y		Y		Y		Y	
13	Provide specified materials as indicated on the Finish Schedule shown on dwg. A7-300.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
14	Provide samples and submittals as required per contract documents.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
15	Verify existing conditions prior to the start of flooring work. Verify that substrates are dry, clean, and free of substances that are incompatible with new work and comply with the manufacturer's recommendations and tolerances.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
16	Provide moisture and alkalinity testing of existing substrates as required to comply with the manufacturer's recommendations. Notify Turner if any unacceptable conditions exist prior to the start of flooring installation.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
17	Clean and prep substrates per manufacturers requirements prior to installation.	Y		Y		Minor prep & skim at resilient included		Y		Y		Y		Y		Y		Y		Y	
18	Provide walk-off entrance mat per finish schedule (A7-300) and finish floor plans.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
19	Provide resilient floor at elevator cab per spec 142100 para 2-14F.	N		Y		Y		(\$804)		K		Y		(\$804)		K		Y		Y	
20	Provide minor flash patching as required for this scope of work	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
21	Immediately after installation, protect finished work with Corex	Y		N		\$10,000		Turner		N		Included Kraft Paper		\$5,000		Turner		N		Included Kraft Paper	
22	Provide all warranties as required per the contract documents.	Y		Y		Y		Warranties per manufacturers		Y		Y		Y		Y		Y		Y	
23	Furnish extra materials/ attic stock as required per the contract documents.	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
24	Furnish 100 sf of each type and color of resilient tile flooring, and 25 lf of resilient base per spec 096500 para 1.4J.	Y		N		\$3,500		CB		N		See scope sheet, added to base bid		[\$3,500]		CB		Y		Y	
25	Furnish 5% of total carpet installed of each color and type per spec 096813 para 1.5K.	Y		N		\$850		CB		N		See scope sheet, added to base bid		[\$850]		CB		Y		Y	
26	Provide mock-up for surface preparation techniques as required per spec 035400 para 1.6.	Y		Y		Y		N		with scope item #27		\$5,000		Turner		Y		N		with scope item #27	
<b>D. Exclusions</b>																					
1	Provide ceramic tile is with Tiling.	N		N		N		N		N		N		N		N		N		N	
2	Provide moisture mitigation is excluded (see unit price section).	N		N		N		N		N		N		N		N		N		N	
3	Provide floor leveling is excluded (see unit price section).	N		N		N		N		N		N		N		N		N		N	
4	Provide sealed concrete is with Painting.	N		N		N		N		N		N		N		N		N		N	
5	Provide terrazzo flooring is with Terrazzo.	N		N		N		N		N		N		N		N		N		N	
6	Provide elevator cab flooring is with Terrazzo.	N		N		N		N		N		N		N		N		N		N	
<b>E. Special Trade Requirements</b>																					
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#		%		#		100%		#		0%		N		N		N		#	
2	Project is COIP - Exclude GL and WC for Onsite Activities within project limit lines	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
3	Professional Liability Insurance (if delegated design requirements identified in scope)	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
b	Office Policy [ Or Project Specific]	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y	
<b>F. Schedule</b>																					
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																					
1	Review and comply with Turner Schedule (AP-6)	Y		Y		Y		10 d		Y		Y		Y		Y		Y		Y	
2	Duration for submittals and shop drawings, in working days	?																			
3	Duration for fabrication and delivery, in working days	?																			
4	Installation duration, in working days	?																			
<b>Allowances</b>																					
A 1	Allowance for leveling - assuming 1/4"	Y		N		\$20,000		Turner		N		\$20,000		Turner		N		\$20,000		Turner	
A 2	Allowance for moisture mitigation - assuming 30% flooring @ \$3/sf	Y		N		\$15,000		Turner		N		\$15,000		Turner		N		\$15,000		Turner	
<b>G. Alternates</b>																					
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. No Change modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain																					
1	100% Payment & Performance Bonds on Turner Forms	Y																			
2	Provide add alternate for onsite WC and GL insurance	Y																			
3																					
<b>H. Unit Prices</b>																					
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost, including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity																					



1	Provide unit price for moisture mitigation - \$/sf	y	\$		y	\$2.50/sf			y	\$2.50/sf		y	\$2.85/sf Ardex MC		y	\$4.45/sf	K	y	\$2.30 - \$6.00/sf	CCA
2	Provide unit price for floor leveling i.e. 1/4" and 1/2" - \$/sf	y	\$		y	\$2.25/sf - 1/4" \$3.00/sf - 1/2"			y	\$4.50/sf		y	\$3.15/sf - 1/4" \$6.30/sf - 1/2" \$12.5-/sf - 1"		y	\$1.70/sf - 1/4" \$3.00/sf - 1/2"	K	y	\$3.50/sf - 1/4" \$5.50/sf - 1/2"	CAA
3																				



**09 Painting**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/20/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Melissa Makota - mmakota@tcco.com - 703.841.7091

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Caligari Gerloff	CG	Metro Painters	MP	Precision Wall	PW	Sparkle Painting	SP
Ryan Flynn (757) 216-7147 (908) 510-8446 ryan@caligarigerloff.com		Yesenia Capela (703) 361-7654 (571) 778-2180 ycapela@metropainters.com	x 126	Keith Stevens (202) 702-6376 kstevens@precisionwall.com		Jacob Hand (571) 347-7956 (540) 326-6022 jacob@sparklepainting.com	
01/27/22		01/27/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 389,082		\$ 312,510		\$ 294,000		\$ 279,500	
\$ 182,945 47.0%		\$ 129,000 41.3%		\$ 129,000 43.9%		\$ 126,950 45.4%	
\$ 572,027 41%		\$ 441,510 9%		\$ 423,000 4%		\$ 406,450	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
1		Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks	y		n		N/A		y				n		N/A	
5		Breakout Cost for Full Time Safety Manager	y		n		N/A		y				n		N/A	
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y			
<b>Bid Acknowledgements</b>																
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y			
<b>Contract Attachments</b>																
2		AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
3		AP-2 Documents List dated 10/22/2021	y		y				y				y			
4		AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y			
5		AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
6		AP-5 BIM Requirements	y		y				y				y			
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
8		AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y			
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurance	y		y				y				y			
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
11		Bid valid for 90 days	y		y				y				y			
12		Retainage: 5%	y		y				y				y			
13		Liquidated Damages \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y				y			
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
1		Total Manhours	#				3,550 mh									
2		Peak # of Workers anticipated	#				5 - 7 wrks									
3		Provide breakout of escalation costs	#				135,332 sf									
4		Painted Wall	#	SF			34,111 sf									
5		Painted Ceilings	#	SF												
6		Sealed Concrete	#	SF												
7		Traffic Coating	#	SF												
8		Qty of Painted Doors	#	EA			149 ea									
9		Qty of Painted Door Frames	#	EA			149 ea									
10		Wallcovering	#	\$												
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?				Company						Company			
2		Where do the materials come from?	?				Global						USA			
3		What is lead time for materials?	?				4 - 5 wk						Pnt: 2-3 wks WC: 6-8 wks			
4		Identify Major Subcontractors	?													
5		Provide ___% UBE (Underutilized Business Enterprise) participation. There is 30% BUUBE Participation Goal	?													
<b>Prequalification</b>																
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?													
2		Turner Prequalification Number:	?													
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?													
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?													
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?													
6		Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR			0.93									
7		Include Payment and Performance Bond	n	%		n	2%		n	1.70%		n	2%		n	2%
<b>Price</b>																
Price:																
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																
Company:																
Individual:																
Title:																
Signature:																
Date:																



AP-1 Statement of Work		Caligari Gerloff B1		Metro Painters B1		Precision Wall B1		Sparkle Painting B1	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF		0		0		0		0	
09 Painting		-		-		-		-	
01/20/22		y/nSub							
<b>A. General</b>									
The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y		y		y		y	
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 09 Painting scope as defined in this Statement of Work and as shown or described in the Contract Documents.		y		y		y		y	
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.		y		y		y		y	
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y		y		y		y	
<b>B. Documents</b>									
The Work shall consist of 09 Painting Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:									
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y		y		y	
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y		y		y	
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y		y		y	
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y		y		y	
5	RFI Log	y		y		y		y	
6	Specifications	y		y		y		y	
	- Division 00 - Procurement and Contracting Requirements (Complete)	y		y		y		y	
	- Division 01 - General Requirements (Complete)	y		y		y		y	
	- 033511 - Concrete Floor Finishes	y		n		y		y	
	- 097200 - Wall Coverings (Complete)	y		y		y		y	
	- 099113 - Exterior Painting (Complete)	y		y		y		y	
	- 099123 - Interior Painting (Complete)	y		y		y		y	
	- 099600 - High-Performance Coatings (Complete)	y		n	none shown	n	none shown	n	none shown
<b>C. Inclusions</b>									
<b>STANDARD REQUIREMENTS</b>									
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y		y		y	
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y		y		n	
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y		y		y	
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y		y		y	temp facilities by others
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y		n	N/A	y	
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y		n	N/A	n	N/A
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field	y		n	N/A	n	N/A	n	N/A
8	All work performed shall be per governing codes	y		y		y		y	Minor prep only
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		n	N/A	y		n	N/A
10	Include field measurement as required prior to fabrications	y		y		y		y	
<b>SPECIFIC SCOPE ITEMS</b>									
11	Ensure surfaces to receive finishes are clean, true and free of irregularities. Repair surfaces as required for application of new finishes. Patch, level and feather areas as required to provide a smooth and uniform surface for new finish installation. Do not proceed with work until unsatisfactory conditions have been corrected.	y		y		y	Repairs/ patches done by others	y	Surfaces to be paint ready by others
12	This Subcontractor shall inspect all substrate surfaces for acceptance prior to application of paint. Installation of paint indicates acceptance of substrate.	y		y		y		y	Only to extent products will adhere as required
13	This subcontractor is to prepare areas to receive their work by wiping surfaces clean, dry and free of dirt, dust and any other foreign material	y		y		y		y	
14	Provide all painting of all surfaces as required by the contract documents including but not limited to gypsum, concrete, masonry, and wood.	y		y		y		y	
15	Provide paint by acceptable manufacturers per finish schedule (A7-300) and specifications.	y		y		y		y	
16	Provide prime painting under wall protection.	y		y		y		y	
17	Provide painting of HM doors and frames Paint hollow metal doors at roof to match roof screen wall.	y		y		y	Metallic finish exclude	y	
18	Provide painting of wood doors Wood doors to be stained	n		n		n		n	
19	Provide all wallcovering complete per finish schedule i.e. dwg. A7-300. Provide breakout.	y		y	Add alternate, added to base bid	[ \$59,661 ]	CG	y	Included per email
20	Provide concrete sealer where designated on project documents Provide Euco Diamond Hard product for SC-1 thru SC-3	y		n	they will not provide	\$29,575	MP	y	Incl. in base bid [ \$29,575 ] MP y Add alternate, added to base bid [ \$13,900 ] PW y
20a	Provide Surecrete Eco-Stain for sealed concrete, SC-4	y				\$16,420	MP	y	Incl. in base bid [ \$16,420 ] MP n
20b	Provide alternate to provide solid pigmented sealer ILO opaque sealer.	y		n		(\$7,050)	MP	y	Deducted from base bid - \$7,050 See email [ \$14,400 ] PW n (\$7,050) MP
20c	Provide sealer at garage floors not shown to receive traffic coating per signage plans (ref RFI #92).	y		n		\$15,000	MP	y	Incl. in base bid [ \$15,000 ] MP y
21	Provide "blackout" of ducts where visible thru grilles / diffusers and louvers as required.	y		y				y	
22	Provide painting of mechanical and electrical items in finished areas included but not limited to insulated and exposed pipes, conduit, boxes; insulated and exposed ducts, hangers, brackets, collars and supports, mechanical and electrical equipment per spec. including but not limited to the following:	y		y				y	To match adjacent surfaces







**09 Terrazzo**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/20/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Melissa Makota - mmakota@tcco.com - 703.841.7091

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

<b>Roman Mosaic</b>	RM	David Allen	DA	Boatman & Magnani	BM
Matt Strzegowski (301) 219-4870 (410) 789-5520 mstrzegowski@romanmosaic.com		Michael Ray (919) 232-2674 michaelray@davidallen.com		Michael Duncan (301) 336-7700 (240) 695-3422 jduncan@boatmanandmagnani.com	
01/27/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 260,150		\$ 245,280		\$ 288,768	
\$ 10,500	4.0%	\$ 65,500	26.7%	\$ 65,500	22.7%
\$ 270,650		\$ 310,780	-12%	\$ 354,268	0%

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y	Per phone conversation			y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n		N/A		n		N/A		n		N/A	
	5	Breakout Cost for Full Time Safety Manager	y		n		N/A		n		N/A		n		N/A	
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y			
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y			
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y		Added composite labor & textura, see email	RM	y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
	6	AP-5 BIM Requirements	y		n				y				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y				y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
	11	Bid valid for 90 days	y		y				n	20 days			n	60 days		
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y		y		If delay is caused by RM		y	If delay is caused by DA			n			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#		#	696 mh			#	1,200 mh			#	400 mh - just precast		
	2	Peak # of Workers anticipated	#		#	6 wrks			#	8 wrks			#			
	3	Provide breakout of escalation costs	#		#				#	Added to base bid	DA		#			
	4	Epoxy Terrazzo Floor, ETF-1	#	SF	#	2,500 sf			#	2,049 sf			#	2,029 sf		
		Epoxy Terrazzo Floor, ETF-1 (Stair Landings)	#	SF	#	Above			#	322 sf			#			
	5	Epoxy Terrazzo Base, ETB-1	#	LF	#	880 lf			#	521 lf			#	618 lf		
	6	Terrazzo Treads	#	LF	#	737 lf			#	742 lf			#			
	7	Isocrack Membrane	#	SF	#	Incl.			#	Incl.			#			
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	Union			?	Company, Sub			?	Union		
	2	Where do the materials come from?	?													
	3	What is lead time for materials?	?		?	6 - 8 wks 10 -12 wks for precast										
	4	Identify Major Subcontractors	?													
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?													



Prequalification													
1	Current Prequalification Questionnaire on file or Submitted at time of Bid		?										
2	Turner Prequalification Number:		?										
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid		?										
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid		?										
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:		?										
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]		?	EMR	0.88	?	0.84						
7	Include Payment and Performance Bond		n	%	1.10%	n	1%			n	1.20%		
Price													
Price:													
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.													
Company:													
Individual:													
Title:													
Signature:													
Date:													
AP-1 Statement of Work				Roman Mosaic B1				David Allen B1				Boatman & Magnani B1	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0				0				0	
09 Terrazzo				-				-				-	
01/20/22				y/n Sub									
<b>A. General</b>													
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y			y			y			y	
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 09 Terrazzo scope as defined in this Statement of Work and as shown or described in the Contract Documents.		y			y	Excluded engineering		y			y	
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.		y			y	Excluded engineering		y			y	
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y			y			y			y	
<b>B. Documents</b>													
	The Work shall consist of 09 Terrazzo Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:												
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021		y			y			y			y	
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021		y			y			y			y	
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021		y			y			y			y	
	4 Phase IV Submission for GMP Specifications dated 12/21/2021		y			y			y			y	
	5 RFI Log dated - TBD		y			y			y			y	
	6 Specifications		y			y			y			y	
	-Division 00 - Procurement and Contracting Requirements (Complete)		y			y			y			y	
	-Division 01 - General Requirements (Complete)		y			y			y			y	
	-096623 - Resinous Matrix Terrazzo Flooring (Complete)		y			y			y			y	
<b>C. Inclusions</b>													
<b>STANDARD REQUIREMENTS</b>													
	1 Includes Hoisting/Rigging/Scaffolding Required for your Work		y			n	N/A		n	N/A		n	N/A
	2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters		y			y			y			y	
	3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)		y			y			y			y	
	4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.		y			y			y			y	
	5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system		y			y			y			y	
	6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system		y			n	N/A		n	N/A		y	
	7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.		y			n	N/A		n	N/A		n	N/A
	8 All work performed shall be per governing codes		y			y			y			y	
	9 Include cost of all surveying and layout (baseline survey to be provided by others)		y			y			y			y	
	10 Include field measurement as required prior to fabrications		y			y			y			y	



SPECIFIC SCOPE ITEMS																
11	Provide a complete resinous terrazzo flooring system. Provide all divider strips and control joint strips including but not limited to terrazzo joints and floor transitions to other flooring materials.	y			y	Quoting Terrazzo & Marble per spec			y	Quoting Master Terrazzo per finish schedule. Confirmed via email no cost change to provide T & M		y	Quoting equal sub i.e. Terrazzo & Marble per spec			
12	Provide surface preparation to all substrates including but not limited to shot blasting, cleaning and mopping, mechanical abrasion, removal of substrate coatings or other substances incompatible with approved adhesives, and leveling and patching of the following: isolation joints, construction joints, cracks, minor depressions and/or slab damage.	y			y	Shot blasting only			y	See scope sheet		y				
13	Verify floor conditions are acceptable for terrazzo floor placement.	y			y				y			y				
14	Provide pre-cast terrazzo at stair treads, risers and landings per finish plans and detail 10/A5-150. (See RFIs 87 & 88)	y			y				y			y				
14a	Add to go to full 2" pre-cast treads.	y			y	revised proposal	[ \$55,000 ]	RM	n		\$55,000	RM	n	\$55,000	RM	
15	Protect all adjacent surfaces when performing your work.	y			y				y	See proposal		y				
16	Provide samples and submittals per contract documents.	y			y				y			y				
17	Provide terrazzo mockup per spec 096623 para 1.6.	y			y				y			y				
18	Provide ramboard as floor protection after completion of work.	y			y				y			n	Kraft paper			
18	Provide masonite as floor protection after completion of work.	y			n		\$2,500	Turner	n		\$2,500	Turner	n	\$2,500	Turner	
19	Provide sealant at terrazzo to terrazzo locations.	y			y				y			y				
20	Provide sealant at terrazzo to dissimilar material.	y			y				y	Stop strips only		y	Stop strips only			
21	Provide elevator cab flooring per RFI #46.	y			y				y			y				
22	Provide 6" straight terrazzo base per finish schedule (see alternate section)	y			y				y			y				
22a	Add to go to 6" cove base per RFI #142.	y			n	Allowance	\$4,000	Turner	n	Allowance	\$4,000	Turner	n	Allowance	\$4,000	Turner
23	Provide moisture testing as required.	y			y				y			y				
24	Allowance for floor leveling for all areas, including stair landings.	y			n	Allowance	\$4,000	Turner	n	Allowance	\$4,000	Turner	n	Allowance	\$4,000	Turner
25	Comply with COVID-19 requirements	y			y				y	Alternate added to base bid	[ \$3,930 ]	DA	y			
26	Provide 1/4" poured terrazzo at intermediate stair landings	y			y				?			n	Assumed 1/2" pre-cast at intermediate stair landings because of heavy equipment			
<b>D. Exclusions</b>																
1	Provide ceramic tile with Tiling.	n			n				n			n				
2	Provide elevator cab flooring with Flooring-															
3	Provide moisture mitigation is excluded.	n			n				n	As add alternate	[ \$6,454 ]	DA	n			
<b>E. Special Trade Requirements</b>																
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%		n				n			#	100%			
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y			y				y			y				
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y			n		N/A		n		N/A	n	N/A			
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y			n		N/A		n		N/A	n	N/A			
b	Office Policy ( Or Project Specific)	y			n		N/A		n		N/A	n	N/A			
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y			n		N/A		n		N/A	n	N/A			
<b>F. Schedule</b>																
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																
1	Review and comply with Turner Schedule (AP-6)	y			y	To be reviewed				No re-mob		y				
2	Duration for submittals and shop drawings, in working days	?			?	2 wks										
3	Duration for fabrication and delivery, in working days	?			?	10 - 12 wks						?	10 - 12 wks			
4	Installation duration, in working days	?			?	50 d										
						Yes/No -->	yes		Yes/No -->	yes		Yes/No -->	yes			
<b>Subcontractor Bid</b>							\$ 260,150			\$ 245,280			\$ 288,768			
<b>Total Adjustments</b>							\$ 10,500			\$ 65,500			\$ 65,500			
<b>Leveled Total Bid</b>							\$ 270,650			\$ 310,780			\$ 354,268			
							LOW BID 1			2 -12%			3 0%			
<b>G. Alternates</b>																
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.																
1	100% Payment & Performance Bonds on Turner Forms	y			y	1.10%		RM	y	1%	[ \$2,303 ]	DA				





**09 Tiling**

Project: Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
 Job #: 20039  
 A/E: Stantec Architecture Inc.  
 Bid Date: 1/27/2022 @ NOON  
 AP1 Date: 01/20/22  
 Est: Scott Stevenson  
 Pro: Johnnel Lanham  
 Ops: Derek Brown

Estimator: Melissa Makota - mmakota@tcco.com - 703.841.7091

**Legend**  
 Y INCLUDED  
 n EXCLUDED  
 ? QUESTION  
 # QUANTITY

Source One Flooring	S1F	Churchville Tile and Marble	CTM	Elevation Flooring	EF	David Allen	DA	Koydol	K
Elmer Merino (703) 429-1651 emerino@s1f.com	x 123	Jeff Ruth (410) 879-3010 jeffruth@ctm1.org		Sezgin Siyam (240) 531-2194 sez@elevationflooring.com		Michael Ray (919) 232-2674 michaelray@davidallen.com		Renzo Carranza (202) 674-9857 (202) 449-9525 renzo.carranza@koydol.com	
02/02/22		02/01/22		01/28/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 118,000		\$ 124,000		\$ 126,309		\$ 137,604		\$ 98,300	
\$ 14,243 12.1%		\$ 13,000 10.5%		\$ 13,000 10.3%		\$ 13,000 9.4%		\$ 38,000 38.7%	
\$ 132,243		\$ 137,000 4%		\$ 139,309 5%		\$ 150,604 14%		\$ 136,300 3%	
						Standalone number from Terrazzo If awarded both - deduct \$11,173		Standalone number from Flooring If awarded both - 1% discount	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
		<b>Turner Construction Company's Environmental Health and Safety Program</b>																		
1		Turner Construction Company's Environmental Health and Safety Program	y		y				y				y							
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y							
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y	Per phone conversation, 1/31				n	\$5,000	Turner
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y				y				n		N/A			n	\$20,000	Turner
5		Breakout Cost for Full Time Safety Manager	y		y				y				n		N/A			y		
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y					y		
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y					y		
		<b>Bid Acknowledgements</b>																		
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y					y		Contracts added to BC after signed scope sheet was sent. Emailed Renzo
		<b>Contract Attachments</b>																		
2		AP-1 Statement of Work dated 1/12/2022	y		y				y				y					y		
3		AP-2 Documents List dated 10/22/2021	y		y				y				y	Per phone				y		
4		AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y	Per phone				y		
5		AP-4 Logistics Plan dated 12/22/2021	y		y				y				y					y		
6		AP-5 BIM Requirements	y		y				y				y					y		
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y					y		
8		AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y					y		
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y				y					y		
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y					y		
11		Bid valid for 90 days	y		y				n	30 days			n	20 days				y		
12		Retainage: 5%	y		y				y				y					y		
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y				y	If delay is caused by DA				y		
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y					y		
		<b>Key Quantities and Breakouts (Populate Below)</b>																		
1		Total Manhours	#							300 mh										800 mh
2		Peak # of Workers anticipated	#							6-10 wrks										6 wrks
3		Provide breakout of escalation costs	#												Add alternate - added to base bid [ \$4,261 ]				DA	
4		Porcelain Floor Tile, PFT-1	#	SF	#	205 sf			#	230 sf			#	202 sf				#	231 sf	
5		Porcelain Floor Tile, PFT-2	#	SF	#	1,448 sf			#	1,860 sf			#	1,573 sf				#	1,551 sf	
6		Porcelain Floor Tile, PFT-3	#	SF	#	187 sf			#	240 sf			#	188 sf				#	224 sf	
7		Porcelain Wall Tile, PWT-1	#	SF	#	216 sf			#	207 sf			#	207 sf				#	216 sf	
8		Porcelain Wall Tile, PWT-2	#	SF	#	1,414 sf			#	1,160 sf			#	1,160 sf				#	1,257 sf	
9		Porcelain Wall Tile, PWT-3	#	SF	#	227 sf			#	216 sf			#	216 sf				#	293 sf	
10		Ceramic Wall Tile, CT-1	#	SF	#	1,076 sf			#	1,423 sf			#	1,220 sf				#	1,202 sf	
11		Ceramic Wall Tile, CT-2	#	SF	#	37 sf			#	45 sf			#	42 sf				#	22 sf	
12		Ceramic Wall Tile, CT-3	#	SF	#	72 sf			#	76 sf			#	70 sf				#	78 sf	
13		Porcelain Tile Base, PTB-1	#	LF	#	77 lf			#	90 lf			#	78 lf				#	106 lf	
14		Porcelain Tile Base, PTB-2	#	LF	#	310 lf			#	520 lf			#	500 lf				#	620 lf	
15		Porcelain Tile Base, PTB-3	#	LF	#	113 lf			#	102 lf			#	100 lf				#	127 lf	
16		Crack isolation & waterproofing																		
		<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																		
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?							Mixed										TBD
2		Where do the materials come from?	?							USA										Specified suppliers
3		What is lead time for materials?	?							8 - 10 wk										TBD
4		Identify Major Subcontractors	?																	TBD
5		Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																	
		<b>Prequalification</b>																		
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?																	
2		Turner Prequalification Number:	?																	
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																	
6		Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR						0.92										.84
7		Include Payment and Performance Bond	n	%	n	3%			n	2%			n	1%				n	1.50%	
		<b>Price</b>																		
		Price:																		
		Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																		
		Company:																		
		Individual:																		
		Title:																		
		Signature:																		
		Date:																		



AP-1 Statement of Work		Source One Flooring B1		Churchville Tile and Marbl B1		Elevation Flooring B1		David Allen B1		Koydol B1					
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF		0		0		0		0		Renzo Carranza (202) 674-9857					
09 Tiling															
01/20/22		y/n/Sub													
<b>A. General</b>															
The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y		y		y		y		y					
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 09 Tiling scope as defined in this Statement of Work and as shown or described in the Contract Documents.		y		y		y		y		y					
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.		y		y		y		y		y					
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y		y		y		y		y					
<b>B. Documents</b>															
The Work shall consist of 09 Tiling Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:															
1 Phase IV Submission for GMP Drawings - dated 12/21/2021		y		y		y		y		y					
2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021		y		y		y		y		y					
3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021		y		y		y		y		y					
4 Phase IV Submission for GMP Specifications dated 12/21/2021		y		y		y		y		y					
5 RFI Log		y		y		y		y		y					
6 Specifications		y		y		y		y		y					
- Division 00 - Procurement and Contracting Requirements (Complete)		y		y		y		y		y					
- Division 01 - General Requirements (Complete)		y		y		y		y		y					
- 093000 - Tiling (Complete)		y		y		y		y		y					
<b>C. Inclusions</b>															
<b>STANDARD REQUIREMENTS</b>															
1 Includes Hoisting/Rigging/Scaffolding Required for your Work		y		n	N/A	n	N/A	y		n	By others	N/A	y		
2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters		y		y		y		y		y			y		
3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)		y		y		y		y		y			y		
4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.		y		y		y		y		y	Power & water by others		y		
5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system		y		n	N/A	n	N/A	y		y			y		
6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system		y		n	N/A	n	N/A	y		n	N/A		y		
7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.		y		n	N/A	n	N/A	y		n	N/A		y		
8 All work performed shall be per governing codes		y		y		y		y		y			y		
9 Include cost of all surveying and layout (baseline survey to be provided by others)		y		y		y		y		y			y		
10 Include field measurement as required prior to fabrications		y		y		y		y		y			y		
<b>SPECIFIC SCOPE ITEMS</b>															
11 Provide all ceramic tile, grout, accessories, etc. as required for a complete system and as shown on the contract documents.		y		y		y		y		y			y		
12 Provide thresholds at outside wall corners, floor transitions and door threshold per contract document. Reference spec 093000 para 2.2B. BOD: Dillex-HKS Cove		y		y		n	White Carrera marble sills	y		y		Metal cove at PTB-2 only	y		
13 Provide specified materials as indicated on the Finish Schedule shown on dwg. A130		y		y		y		y		y			y		
14 Provide crack isolation and waterproofing membrane as specified.		y		y		y		y		y			y		
15 Provide caulking of wall tile to floor tile.		y		y		y		y		y			y		
16 Provide samples and submittals as required per contract documents.		y		y		y		y		y			y		
17 Verify that substrates are dry, clean, and free of substances that are incompatible with new work and comply with the manufacturer's recommendations and tolerances.		y		y		y		y		y			y		
18 Immediately after installation, protect finished work with corex at floor tile.		y		n	\$1,243	Turner		y		y			y		
19 Provide all warranties as required per the contract documents.		y		y		y		y		y			y		
20 Furnish extra materials/attic stock as required per the contract documents i.e. 1% of each size, color and surface finish, but not less than 1 box of each type per spec 093000 para 1.5G.		y		y		y		y		y			y		
21 Provide minor leveling as required.		y		n	Allowance	\$3,000	Turner	n	Allowance	\$3,000	Turner	n	Allowance	\$3,000	Turner
22 Coordinate tile install with toilet accessories installation.		y		y		y		y		y			y		
23 Provide CT-1 wall tile at shower locations		y		y		y		y		y			y		
24 Provide metal cove at straight tile base, PTB-2 only (see detail 3/A6-202).		y		y		y		y		y			y		
25 Provide waterproofing at wall tile i.e. 70" AFF at showers, 6" AFF all other locations per RFI #50.		y		y		y		y		y			y		
26 Provide backsplash ceramic wall tile, CT-1 at breakroom and pantry rooms per finish floor plans. Elevations to be revised to match finish plans per RFI #137.		y		y		y		y		y		See email	y		
27 Hold for areas to receive tile not identified on the plans.		y		n	Allowance	\$10,000	Turner	n	Allowance	\$10,000	Turner	n	Allowance	\$10,000	Turner
<b>D. Exclusions</b>															
1 Provide sealant at plumbing fixtures is with Plumbing.		n		n		n		n		n			n		
2 Provide sealant at toilet accessories is with Rough Carpentry.		n		n		n		n		n			n		
3 Provide cementitious backer board is with Drywall.		n		n		n		n		n			n		
4 Provide transition strips is with Flooring.		n		n		n		n		n			n		
5 Provide terrazzo flooring is with Terrazzo.		n		n		n		n		n			n		
6 Provide tile at shower floors is excluded i.e. premanufactured shower pans.		n		n		n		n		n			n		
7 Provide wall tile PWT-4 at showers per Permit set is excluded. Pricing based on GMP drawings.		n		n		n		n		n			n		
<b>E. Special Trade Requirements</b>															
1 % UBE - Underutilized Business Enterprise (Registered w/). Provide percentage (%) commitment included within bid for prime and lower tiers.		#	%		100%			n		n			n		
2 Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)		y		y		y		y		y			y		
3 Professional Liability Insurance (if delegated design requirements identified in scope)		y		y		y		y		n			y		
a \$3,000,000 per occurrence/\$3,000,000 aggregate		y		y		y		y		y			y		
b Office Policy [ Or Project Specific)		y		y		y		y		y			y		
c Deductible amount - Not more than \$50,000 payable by Subcontractor		y		y		y		y		y			y		
<b>F. Schedule</b>															
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.															
1 Review and comply with Turner Schedule (AP-6)		y		y				y	4 mob			No remobilizations			
2 Duration for submittals and shop drawings, in working days		?										TBD			
3 Duration for fabrication and delivery, in working days		?										TBD			





## 10 Operable Partitions

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/20/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Melissa Makota - mmakota@tcco.com - 703.841.7091

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Modern Door	MD
David Hurley (301) 843-5255  <a href="mailto:dhurley@moderndoor.com">dhurley@moderndoor.com</a>	
01/25/21	
<b>FULLY SCOPED</b>	
\$	52,109
\$	3,000 5.8%
\$	55,109

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>								
	1	Turner Construction Company's Environmental Health and Safety Program	y		y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y			
	5	Breakout Cost for Full Time Safety Manager	y		y			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y			
<b>Bid Acknowledgements</b>								
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y			
<b>Contract Attachments</b>								
	2	AP-1 Statement of Work dated 1/12/2022	y		y			
	3	AP-2 Documents List dated 10/22/2021	y		y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y			
	6	AP-5 BIM Requirements	y		y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		n	no refund??		
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y			
	11	Bid valid for 90 days	y		n	30 days		
	12	Retainage: 5%	y		y			
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion and <b>\$712.00 /day</b> for each calendar day beyond Final Project Completion	y		y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y			
<b>Key Quantities and Breakouts (Populate Below)</b>								
	1	Total Manhours	#			112 mh		
	2	Peak # of Workers anticipated	#			2 - 4 wrks		



3	Provide breakout of escalation costs	#				
4	Operable Partitions	#		#	2 ea	
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>						
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?			Company & Sub	
2	Where do the materials come from?	?			USA	
3	What is lead time for materials?	?			6 - 8 wks	
4	Identify Major Subcontractors	?				
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?				
<b>Prequalification</b>						
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?				
2	Turner Prequalification Number:	?				
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?				
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?				
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?				
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____		1.12	
7	Include Payment and Performance Bond	n	_____%	n	1.50%	
<b>Price</b>						
Price:						
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.						
Company:						
Individual:						
Title:						
Signature:						
Date:						
<b>AP-1 Statement of Work</b>				<b>Modern Door</b>		<b>B1</b>
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		
<b>10 Operable Partitions</b>				-		
01/20/22				y/n	Sub	y/n
<b>A. General</b>						
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y	
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 10 Operable Partitions scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y	
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y	



	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y		
<b>B. Documents</b>						
	The Work shall consist of 10 Operable Partitions Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:					
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y		
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y		
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y		
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y		
5	RFI Log dated - TBD	y		y		
6	Specifications	y		y		
	- Division 00 - Procurement and Contracting Requirements (Complete)	y		y		
	- Division 01 - General Requirements (Complete)	y		y		
	- 102239 - Folding Panel Partitions (Complete)	y		y		
<b>C. Inclusions</b>						
<b>STANDARD REQUIREMENTS</b>						
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		n	N/A	
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y		
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y		
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y		
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		n	blocking w/drywall	N/A
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y		
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		n		N/A
8	All work performed shall be per governing codes	y		y		
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y		
10	Include field measurement as required prior to fabrications	y		y		
<b>SPECIFIC SCOPE ITEMS</b>						
11	Provide manually operated operable partition at training rooms per finish floor plans. BOD: Modernfold Acousti-Seal Encore, Paired Panel or equivalent	y		y		
12	Provide all required hardware and accessories including, but not limited to, ceiling closures, jamb and head moldings, fittings etc.	y		y		
13	Provide warranty per contract documents.	y		y		
14	Provide samples and submittals as required.	y		y		
15	Provide partition with STC 54 per specification.	y		y		
16	Provide pocket door for each operable partition.	y		y	Add alternate, incl. in base bid	[ \$10,926 ] MD
17	Provide pass door for each partition per spec 102239 para 2.2G.	y		y	Add alternate, incl. in base bid	[ \$5,494 ] MD



D. Exclusions									
1	Provide in wall blocking with Drywall.	n			n				
2	Provide overhead support with Misc. Metals.	n			n				
E. Special Trade Requirements									
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%						
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y							
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y							
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y							
b	Office Policy [ Or Project Specific)	y							
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y							
4	Includes escalation of labor and material costs	y			y				
F. Schedule									
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.									
1	Review and comply with Turner Schedule (AP-6)	y			y				
2	Duration for submittals and shop drawings, in working days	?							
3	Duration for fabrication and delivery, in working days	?							
4	Installation duration, in working days	?							
Allowances									
A	1	Allowance for fabric patching	y		n	Patching for two panels; see email	\$3,000	MD/T	
							yes		
<i>Subcontractor Bid</i>							\$	52,109	
<i>Total Adjustments</i>							\$	3,000	
<b>Leveled Total Bid</b>							\$	<b>55,109</b>	
							<b>LOW BID</b>	<b>1</b>	
G. Alternates									
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein									
1	100% Payment & Performance Bonds on Turner Forms	y							
2	Provide add alternate for onsite WC and GL insurance	y							
3									
H. Unit Prices									
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price									
1									
2									

# Turner





**10 Shelving**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date 1/27/2022 @ NOON  
 AP1 Date 03/01/22  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Abdullah Malik, ahmalik@tcco.com, 571-373-2798

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

<b>B&amp;R Associates</b> B&R Rich Stewart 240-372-4373 rstewart@bandrassociates.com	<b>Equipto</b> E Jason Lamas 484-862-8885 800-323-0801 ilamas@equipto.com	<b>Turner Hydraulics</b> TH Billy Turner 717-243-3329 ext. 7202 bturner@turnerhydraulics.com
02/03/22 <b>FULLY SCOPED</b> \$ 100,983 \$ 15,000 14.9%	01/24/22 <b>NO</b> \$ 41,848 \$ 21,119 50.5%	02/10/22 <b>FULLY SCOPED</b> \$ 91,966 \$ 15,000 16.3%
<b>\$ 115,983</b> 8%	<b>Incomplete</b>	<b>\$ 106,966</b>
<b>FURNISH ONLY</b>		

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
Turner Construction Company's Environmental Health and Safety Program																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				n				n			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				n				n			
	5	Breakout Cost for Full Time Safety Manager	y		n				n				n			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				?				?			
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y			
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
	6	AP-5 BIM Requirements	y		y				y				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
	8	AP-7 Equipment Coordination Matrix dated - 1/25/2022	y		y				y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y				y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		[\$4,148.39]		y				y		[\$5,205.60]	
	11	Bid valid for 90 days	y		y				y				y			
	12	Retainage: 5%	y		y				n				n			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				n				n			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#		#	186 MH			#	160 MH			#	160 MH		
	2	Peak # of Workers anticipated	#		#	4			#	4			#	4		
	3	Provide breakout of escalation costs	#		#	Not included, 15% Material & 7% Labor			n				n			
	4	BS01 - Bulk Shelving Rack, Heavy Duty	#		#	6			#	6			#			
	5	BS02 - Bulk Shelving Rack, Heavy Duty	#		#	24			#				#			
	6	GC01 - Gas Cylinder Cabinet	#		#	1			n	\$1,000	B&R	#	n			
	7	PR01 - Pallet Rack, 5,000 Pounds Capacity Per Shelf	#		#	2			n	\$1,552	B&R	#	n			
	8	SU01 - Shelving Unit	#		#	48			n	\$621	B&R	#	n			
	9	TB01 - Tool Board, Four Panel - Brown Wrinkle	#		#	4			n	\$2,946	B&R	#	n			
	10	TR01 - Tire Rack, Single-Tier	#		#	6			n		B&R	#	n			
	11	Wall mounted shelves	#		n		See Allowances		n		See Allowances	#	n		See Allowances	
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	Company			?	Company			?	Company		
	2	Where do the materials come from?	?		?	MD & PA			?				?			
	3	What is lead time for materials?	?		?	12-16 weeks			?				?	4 - 24 weeks		
	4	Identify Major Subcontractors	?		?				?				?	Graco		
	5	Provide ___ % UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?	0%			?				?	0%		
<b>Prequalification</b>																
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?	yes			?				?			
	2	Turner Prequalification Number:	?		?	89551			?				?			
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?				?				?	yes		
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?		?	yes			?				?			
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	1.52			?				?	1.00		
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?		?	1.50%			?				?	2.50%		
	7	Include Payment and Performance Bond	n		n				n				n			



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
AP-1 Statement of Work						B&R Associates			B1	Equipto			B1	Turner Hydraulics			B1
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF						0				0				0			
10 Shelving						-				-				-			
03/01/22																	
<b>A. General</b>																	
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y								y			
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 10 Shelving scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y								y			
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y								y			
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y								y			
<b>B. Documents</b>																	
		The Work shall consist of 10 Shelving Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:															
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y								y			
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y								y			
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y								y			
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y								y			
	5	RFI Round 1 Log distributed on 1/18/2022	y			y								y			
	6	RFI Round 2 Log distributed on 1/24/2022	y			n								n			
	7	RFI Round 3 Log distributed on 1/27/2022	y			n								n			
	8	RFI Round 4 Log not distributed	y			n								n			
	6	Specifications	y			y								y			
		- Division 00 - Procurement and Contracting Requirements (Complete)	y			y								y			
		- Division 01 - General Requirements (Complete)	y			y								y			
		- 105610 - Industrial Storage Equipment (Complete)	y			y								y			
		- 105617 - Wall Mounted Standards and Shelving (Complete)	y			y								y			
<b>C. Inclusions</b>																	
<b>STANDARD REQUIREMENTS</b>																	
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			y								y			
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y								y			
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			y								y			
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			y								y			
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			y								y			
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			y								y			
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y			y								n		N/A	
	8	All work performed shall be per governing codes	y			y								y			
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y			y								n		N/A	
	10	Include field measurement as required prior to fabrications	y			y								y			
<b>SPECIFIC SCOPE ITEMS</b>																	
	11	Provide all industrial storage equipment and accessories as indicated in contract documents including but not limited to peg board panel, shelving units, rack storage, bulk storage, pallet storage, work benches, gas cylinder cabinets, and heavy duty tire racks	y			y								y			
	12	Provide approved manufacturers indicated in contract documents.	y			y								y			
	13	Coordinate size and location of recesses and inserts in concrete and masonry required for installation of storage equipment.	y			y								y			
	14	Coordinate sizes and locations of blocking and backing required for installation of storage equipment attached to wall and ceiling assemblies.	y			y								y			
	15	Coordinate locations and installation of storage equipment that may interfere with ceiling systems including lighting, HVAC, speakers, sprinklers, access panels, electrical switches or outlets, and floor drains.	y			y								y			
	16	Provide warranty for storage equipment as indicated in contract documents	y			y								y			
	17	Provide labeling for each storage equipment as indicated in contract documents	y			y								y			
	18	Provide protection of installed products from damage during remainder of construction period.	y			y								y			
	19	Provide factory authorized demonstrations and trainings to owners designated personnel.	y			y								y			
	20	Confirm acceptance of ART Covid Policy dated 8.27.21	y			y								y			
<b>D. Exclusions</b>																	
	1	Provide blocking for wall mounted shelves by Drywall	n			n								n			
<b>E. Special Trade Requirements</b>																	



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%		#	0%										
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y			y											
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y			n		N/A									
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y			y								y			
	b	Office Policy [ Or Project Specific)	y			n		N/A						y			
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y			y											
<b>F. Schedule</b>																	
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.															
	1	Review and comply with Turner Schedule (AP-6)	y			y								y			
	2	Duration for submittals and shop drawings, in working days	?			?	10 days										
	3	Duration for fabrication and delivery, in working days	?			?	80 days										
	4	Installation duration, in working days	?			?	12 days										
<b>Allowances</b>																	
A	1	Allowance for wall mounted shelves in rooms 300-B, 344 & 326	y			n		\$15,000	Turner	n		\$15,000	Turner	n		\$15,000	Turner
<b>G. Alternates</b>																	
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.															
	1	100% Payment & Performance Bonds on Turner Forms	y														
	2	Provide add alternate for onsite WC and GL insurance	y														
<b>H. Unit Prices</b>																	
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.															
	1																



**10 Signage**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/20/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Estimator Melissa Makota - mmakota@tcco.com - 703.841.7091

Gelberg Signs	GS	Gropen	GR	Image 360	IM	Jack Stone Signs	JS
Christopher Smith (202) 538-4498 <a href="mailto:csmith@gelbergsigns.com">csmith@gelbergsigns.com</a>		Katie Powell (434) 295-1924 x 103 <a href="mailto:kpowell@gropen.com">kpowell@gropen.com</a>		John Marcian (703) 444-0007 <a href="mailto:jmarcian@i360dull.com">jmarcian@i360dull.com</a>		Todd Stone (301) 322-3323 (240) 498-4530 <a href="mailto:tstone@jckstonesigns.com">tstone@jckstonesigns.com</a>	
02/01/22		01/27/22		01/29/22		02/01/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>NO</b>		<b>NO</b>	
\$ 38,434		\$ 44,975		\$ 17,576		\$ 19,857	
\$ 113,035 294.1%		\$ 103,512 230.2%		\$ 116,715 664.1%		\$ 125,829 633.7%	
\$ 151,469 #N/A		\$ 148,488 #N/A		<b>Incomplete</b>		<b>Incomplete</b>	
				Cannot work with illuminated signs i.e. exterior signage		Does not have workforce to do exterior signage work	

A/Q	Item	Description	y/n	Sub Response	Turner Estimate			y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
					Qty.	Unit														
		Turner Construction Company's Environmental Health and Safety Program																		
	1	Turner Construction Company's Environmental Health and Safety Program	y					y				y				y				
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y					y				y				y				
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y					y				y				y				
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y					y				y				y				
	5	Breakout Cost for Full Time Safety Manager	y					y				y				y				
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y					y				y				y				
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y					y				y				y				
		<b>Bid Acknowledgements</b>																		
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y					y				y				y				
		<b>Contract Attachments</b>																		
	2	AP-1 Statement of Work dated 1/12/2022	y					y				y				y				
	3	AP-2 Documents List dated 10/22/2021	y					y				y				y				
	4	AP-3 Supplementary Provisions dated 1/14/2022	y					y				y				y				
	5	AP-4 Logistics Plan dated 12/22/2021	y					y				y				y				
	6	AP-5 BIM Requirements	y					y				y				y				
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y					y				y				y				
	8	AP-7 Equipment Coordination Matrix dated - TBD	y					y				y				y				
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurance	y					y				y				y				
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y					y				y				y				
	11	Bid valid for 90 days	y					y				y				y				
	12	Retainage: 5%	y					y				y				y				
	13	Liquidated Damages \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y					y				y				y				
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y					y				y				y				
		<b>Key Quantities and Breakouts (Populate Below)</b>																		
	1	Total Manhours	#																	
	2	Peak # of Workers anticipated	#																	
	3	Provide breakout of escalation costs	#																	
	4	Interior Signage:																		
	5	Sign Type A1	#	EA	27 ea															
	6	Sign Type A2	#	EA	55 ea															
	7	Sign Type A3	#	EA	7 ea															
	7a	Premium to go to 2/90 slider signs i.e. A1, A2, A3 signs	#																	
	8	Sign Type B1	#	EA	5 ea															
	9	Sign Type B2	#	EA	2 ea															
	10	Sign Type B3	#	EA	2 ea															
	11	Sign Type C1	#	EA	14 ea															
	12	Sign Type D1	#	EA	14 ea															
	13	Sign Type E1	#	EA	10 ea															
	14	Sign Type F1	#	EA	13 ea															
	15	Sign Type L1	#	EA	2 ea															
	16	Safety Signs:	#																	
	17	Safety Sign SS-1	#	EA	1 ea															
	18	Safety Sign SS-2	#	EA	1 ea															
	19	Safety Sign SS-3	#	EA	1 ea															
	20	Safety Sign SS-4	#	EA	1 ea															
	21	Safety Sign SS-5	#	EA	8 ea															
	22	Safety Sign SS-6	#	EA	7 ea															
	23	Safety Sign SS-7	#	EA	1 ea															
	24	Safety Sign SS-8	#	EA	1 ea															
	25	Safety Sign SS-9	#	EA	2 ea															



Subcontractors (Provide Name, Scope UBE % and Price \$)																			
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?																	
2	Where do the materials come from?	?																	
3	What is lead time for materials?	?																	
4	Identify Major Subcontractors	?																	
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is <b>30% BUUBE</b> Participation Goal	?																	
Prequalification																			
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?																	
2	Turner Prequalification Number:	?																	
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																	
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR																
7	Include Payment and Performance Bond	n	%			n		n		n		n							
Price																			
Price:																			
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																			
Company:																			
Individual:																			
Title:																			
Signature:																			
Date:																			
AP-1 Statement of Work				Gelberg Signs B1				Gropen B1				Image 360 B1				Jack Stone Signs B1			
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0				0				0				0			
10 Signage				-				-				-				-			
01/20/22				y/n				Sub											
A. General																			
The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y					y				y				y				
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 10 Signage scope as defined in this Statement of Work and as shown or described in the Contract Documents.		y					y				y				y				
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.		y					y				y				y				
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y					y				y				y				
B. Documents																			
The Work shall consist of 10 Signage Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																			
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y					y				y				y				
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y					y				y				y				
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y					y				y				y				
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y					y				y				y				
5	RFI Log dated	y					y				y				y				
6	Specifications	y					y				y				y				
	- Division 00 - Procurement and Contracting Requirements (Complete)	y					y				y				y				
	- Division 01 - General Requirements (Complete)	y					y				y				y				
	- 101400 - Signage (Complete)	y					y				y				y				



C. Inclusions														
<b>STANDARD REQUIREMENTS</b>														
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y												
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y												
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y												
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y												
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y				n	N/A	n	N/A	n	N/A	n	N/A	
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y				n	N/A	n	N/A	n	N/A	n	N/A	
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field	y				n	N/A	n	N/A	n	N/A	n	N/A	
8	All work performed shall be per governing codes	y				y		y		y		y		
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y				y		y		y		y		
10	Include field measurement as required prior to fabrications	y				y		y		y		y		
<b>SPECIFIC SCOPE ITEMS</b>														
11	Provide all signage as required per the contract documents including but not limited to all ADA restrooms sign, ADA shower signs, room identification signs, safety signs, exterior building signs etc.	y				y		y		y		y		
12	Provide all accessories as required for signage installed including but not limited to silicone, screws, expansion shields, toggle bolts, etc	y				y		y		y		y		
13	Provide signage to include visual and tactile characters as required per ADA codes and regulations.	y				y		y		y		y		
14	Provide all interior signage per signage standards (A6-901 & A6-902), and as shown on the signage plans.	y				y		y		y		y		
15	Provide safety equipment signage per schedule (Q7-100), and as shown on the safety signage and stripping plans (Q7-311).	y				y		y		y		y		
16	Provide exterior building signage:	y				y		y		y		y		
17	OMA entrance signage at canopy i.e. detail 2/A2-101.	y				y		y		y		y		
18	OMA signage on the face of the building per details 1/A2-101 and 2/A2-102.	y				y		y		y		y		
11	OMA bay signage per detail 1/A2-102.	y				y		y		y		y		
12	PG entrance "PARK" signage per detail 1/PG-A2-101.	y				y		y		y		y		
13	PG signage on metal panel per detail 1/PG-A2-102.	y				y		y		y		y		
14	Provide warranty per contract documents.	y				y		y		y		y		
<b>D. Exclusions</b>														
1	Provide MEP required signage is with MEP.	n				n		n		n		n		
2	Provide site signage - handicap signs, posts, fire lane signage, stop bar/stop sign, speed limit, tree protection signage, etc. is with Asphalt	n				n		n		n		n		
3	Provide floor safety stripping is with Painting	n				n		n		n		n		
4	Provide electric connections for internally illuminated exterior signs is with Electrical.	n				n		n		n		n		
5	Provide in-wall blocking for signage with rough carpentry	n				n		n		n		n		
<b>E. Special Trade Requirements</b>														
1	% UBE - Underutilized Business Enterprise(Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#	____%											
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines	y				y		y		y		y		
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y				y		y		y		y		
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y				y		y		y		y		
b	Office Policy ( Or Project Specific)	y				y		y		y		y		
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y				y		y		y		y		
<b>F. Schedule</b>														
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule														
1	Review and comply with Turner Schedule (AP-6)	y				y		y		y		y		
2	Duration for submittals and shop drawings, in working days	?												
3	Duration for fabrication and delivery, in working days	?												
4	Installation duration, in working days	?												
<b>Allowances</b>														
A	1	Allowance for exterior signage.	y			n	\$100,000	Turner	n	\$100,000	Turner	n	\$100,000	Turner
<b>G. Alternates</b>														
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.														
1	100% Payment & Performance Bonds on Turner Form	y												
2	Provide add alternate for onsite WC and GL insurance	y												
<b>H. Unit Prices</b>														
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.														
1														



**10 Misc. Specialties**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP 1 Date **01/20/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Melissa Makota - mmakota@tcco.com - 703.841.7091

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Division 10 Sales D10	<b>MD Partitions</b> MD	Partition Plus PP	Washington Door & Hardware WD
Stephen Biegel (704) 644-5913 <a href="mailto:sbiegel@division10sales.com">sbiegel@division10sales.com</a>	Maria Portillo (301) 725-5125 <a href="mailto:maria@mdpartitions.com">maria@mdpartitions.com</a>	Jennifer MacPherson (703) 996-4123 <a href="mailto:jmac@partitionplus.com">jmac@partitionplus.com</a>	Sam Richards (202) 297-5922 <a href="mailto:sam@washingtondoor.net">sam@washingtondoor.net</a>
02/01/22	01/28/22	01/27/22	01/27/22
<b>NO</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>
\$ 92,811	\$ 122,010	\$ 131,300	\$ 141,090
\$ 10,828 11.7%	\$ (1,554) -1.3%	\$ 6,010 4.6%	\$ 6,010 4.3%
<b>Incomplete</b>	\$ 120,456	\$ 137,310 #DIV/0!	\$ 147,100 #DIV/0!
<b>Not Including install for lockers &amp; Partitions</b>	<b>Full Scope</b>	<b>Full Scope</b>	<b>Full Scope</b>

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
1		Turner Construction Company's Environmental Health and Safety Program	y						y											
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y						y											
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y						y											
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y						y											
5		Breakout Cost for Full Time Safety Manager	y						y											
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y						y											
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y						y											
<b>Bid Acknowledgements</b>																				
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y						y											
<b>Contract Attachments</b>																				
2		AP-1 Statement of Work dated 1/12/2022	y						y											
3		AP-2 Documents List dated 10/22/2021	y						y											
4		AP-3 Supplementary Provisions dated 1/14/2022	y						y											
5		AP-4 Logistics Plan dated 12/22/2021	y						y											
6		AP-5 BIM Requirements	y						y											
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y						y											
8		AP-7 Equipment Coordination Matrix dated - TBD	y						y											
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurance	y						y											
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y						y											
11		Bid valid for 90 days	y						n	30 days										
12		Retainage: 5%	y						y											
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y						y											
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y						y											
<b>Key Quantities and Breakouts (Populate Below)</b>																				
1		Total Manhours	#						#	[ 224 ]										
2		Peak # of Workers anticipated	#						#	[ 8 ]										
3		Provide breakout of escalation costs	#																	
4		<b>Toilet Partitions &amp; Accessories</b>																		
5		Labor (Partitons Only)	#																	
6		Toilet Partitions	#	EA		#	11 ea		#	11 ea		#	11 ea		#	11 ea		#	11 ea	
7		Urinal Screens	#	EA		#	1 ea	\$300	PP	1 ea	\$300	PP	#	2 ea		#	2 ea		#	2 ea
8		Shower Curtain, SC-1	#	EA		#	6 ea		#	6 ea		#	6 ea		#	6 ea		#	6 ea	
9		Framed Mirror - 18" x 36", AC-1	#	EA		#	17 ea		#	18 ea		#	18 ea		#	17 ea		#	17 ea	
10		Soap Dispenser, AC-2	#	EA		#	13 ea		#	13 ea		#	13 ea		#	13 ea		#	13 ea	
11		Semi-Recessed Convertible Paper Towel Dispenser & Waste Receptable, AC-3	#	EA		#	10 ea		#	10 ea		#	10 ea		#	10 ea		#	10 ea	
12		Recessed Toilet Paper Stacked Rolls & Seat Cover Dispenser, AC-4	#	EA		#	11 ea		#	6 ea		#	16 ea		#	16 ea		#	16 ea	
13		Surface Mounted Baby Changing Station, AC-5	#	EA		#	4 ea		#	4 ea		#	4 ea		#	4 ea		#	4 ea	
14		Bathroom Hook, AC-6	#	EA		#	16 ea		#	16 ea		#	16 ea		#	16 ea		#	16 ea	
15		Grab Bars - 18"	#	EA		#	9 ea		#	45 ea		#	13 ea		#	9 ea		#	9 ea	
16		Grab Bars - 36"	#	EA		#	15 ea		#	Above		#	9 ea		#	12 ea		#	12 ea	
17		Grab Bars - 42"	#	EA		#	15 ea		#	Above		#	13 ea		#	9 ea		#	9 ea	
18		Shower Seat	#	EA		#	8 ea		#	8 ea		#	8 ea		#	8 ea		#	8 ea	
19		Soap Holder	#	EA		#	6 ea		#	6 ea		#	6 ea		#	6 ea		#	6 ea	
20		Shower Grab Bars	#	EA		#			#	Above		#	12 ea		#	13 ea		#	13 ea	
21		Sanitary Napkin Disposal	#	EA		#	Above	\$2,091	T	5 ea	\$1,046	T	#	Above		#	7 ea		#	7 ea
22		<b>Fire Extinguishers</b>																		
23		Fire Extinguishers	#	EA		#	27 ea		#	27 ea		#	27 ea		#	27 ea		#	27 ea	
24		Fire Extinguisher Cabinets	#	EA		#	14 ea		#	14 ea		#	14 ea		#	14 ea		#	14 ea	
25		<b>Lockers</b>																		
26		Labor	#																	
27		2 Tier Lockers	#	EA		#	90 ea						#	90 ea		#	90 ea		#	90 ea
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																				
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?							Company & Sub										
2		Where do the materials come from?	?																	
3		What is lead time for materials?	?							13 - 15 wks (Lockers)						6 - 8 wks				
4		Identify Major Subcontractors	?							TBD										





15a	Deduct to furnish and install floor-mounted HDPE partitions per RFI #65	y		n		(\$2,900)	PP	n		(\$2,900)	PP	y	Deducted from base bid		y																																																						
16	Furnish and install wall hung urinal screens with integral flanges as required per contract documents.	y		y				y				y			y																																																						
Q 17	Furnish toilet accessories as required per contract documents, reference drawings A5-601, A5-602 and A6-100 and specification 102800. Include all scheduled accessories needed for installation.	y		y	w/tax	[\$13,008]	D10	y		[\$19,363]	MD	y		[\$35,700]	PP		[\$31,546]	WD																																																			
18	<b>Fire Extinguishers</b>	y		y				y				y																																																									
19	Furnish fire extinguishers with cabinets and labels as required per contract documents. Reference specification section 104416.	y		y	w/tax	[\$7,879]	D10	y	As add alternate, added to base bid	[\$6,075]	MD	n		[\$11,800]	PP	y	As add alternate, added to base bid	[\$11,925]	WD																																																		
20	<b>Lockers</b>	y		n		\$2,700	PP	y	Incl. below		MD	y	Labor	[\$2,700]	PP	y	Labor	[\$6,900]	WD																																																		
21	Furnish and install phenolic-core style Z-tier lockers complete with hardware and accessories per contract documents. Reference enlarged floor plans A5-601 & A5-602 and specification section 102116.17.	y		y	Hollman per spec	[\$57,639]	D10	y	Hollman per spec	[\$74,800]	MD	y	Hollman per spec	[\$65,300]	PP	y	Hollman per spec	[\$69,854]	WD																																																		
21a	Furnish and install locker seats per enlarged plans.	y		n		\$6,010	MD	y				n		\$6,010	MD	n		\$6,010	MD																																																		
22	<b>Visual Display Boards-Owner Furnished &amp; Installed per RFI #59</b>	n		n				n				n				n																																																					
23	Furnish markerboards and tackboards as required per contract documents.	n		n				n				n				n																																																					
24	<b>Wall Protection-See Wall Protection BRS</b>	n		n				n				n				n																																																					
25	Furnish 96" tall satin, surface-mounted corner guards as required per contract documents. Reference finish schedule (A7-300) and finish floor plans.	n		n				n				n				n																																																					
26	Furnish full height wall protection, WP-1 per contract documents.	n		n				n				n				n																																																					
<b>D. Exclusions</b>																																																																					
1	Provide in wall blocking for toilet accessories, toilet partitions, visual display boards, lockers, and fire extinguishers with Rough Carpentry	n		n				n				n				n																																																					
2	Install of toilet accessories, visual display boards, and fire extinguishers is with Rough Carpentry.	n		n				n				n	Deducted accessories install from base bid	[\$2,500]	PP	y	Deducted accessories & F.E install from base bid	[\$15,465]	WD																																																		
3	Provide signage is with Signage.	n		n				n				n				n																																																					
4	Provide storage shelving is with Shelving.	n		n				n				n				n																																																					
5	Provide walk-off mat is with Flooring.	n		n				n				n				n																																																					
<b>E. Special Trade Requirements</b>																																																																					
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#	___%	#	100%			n																																																													
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y			Furnish only			y				y				y																																																					
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y				y				y				y																																																					
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y				y				y				y																																																					
b	Office Policy [ Or Project Specific]	y		y				y				y				y																																																					
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## 10 Wall Protection

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Miller Paneling	MP	Division 10 Sales	D10	APEM	AP
Stephanie Miller (530) 908-4554 <a href="mailto:stephanie@millerpaneling.com">stephanie@millerpaneling.com</a>		Stephen Biegel (704) 644-5913 <a href="mailto:sbiegel@division10sales.com">sbiegel@division10sales.com</a>		Alicia Bergey (410) 846-4627 (804) 223-3134 <a href="mailto:abergey@apemconstruction.com">abergey@apemconstruction.com</a>	x 102 x 102
02/01/22		02/01/22		02/07/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 39,000		\$ 18,378		\$ 26,867	
\$ (15,600) -40.0%		\$ 12,600 68.6%		\$ - 0.0%	
\$ 23,400		\$ 30,978 32%		\$ 26,867 15%	
Furnish & Install		Furnish Only		Furnish Only	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y					Furnish Only				Furnish Only		
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y					Furnish Only				Furnish Only		
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y					Furnish Only				Furnish Only		
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y					Furnish Only				Furnish Only		
	5	Breakout Cost for Full Time Safety Manager	y		y					Furnish Only				Furnish Only		
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y					Furnish Only				Furnish Only		
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y					Furnish Only				Furnish Only		
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y			
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y				y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y				y			
	6	AP-5 BIM Requirements	y		y				y				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y			
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y				y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
	11	Bid valid for 90 days	y		n				y				y			
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y				y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#				80 mh									
	2	Peak # of Workers anticipated	#				2 wrks									
	3	Provide breakout of escalation costs	#													
	4	Corner Guards, CG-1	#	EA	#	128 ea										
	5	Wall Protection, WP-1	#	EA	#	13 ea										
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?				Open shop									
	2	Where do the materials come from?	?				CS									
	3	What is lead time for materials?	?				4 - 8 wks									
	4	Identify Major Subcontractors	?													
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?													



Prequalification															
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?				On file									
2	Turner Prequalification Number:	?													
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?													
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?													
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?													
6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR _____			0.86									
7	Include Payment and Performance Bond	n	_____ %		n	2%		n		n					
Price															
Price:															
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.															
Company:															
Individual:															
Title:															
Signature:															
Date:															
AP-1 Statement of Work				Miller Paneling B1				Division 10 Sales B1				APEM B1			
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0				0				0			
10 Wall Protection				-				-				-			
01/12/22				y/n				Sub							
A. General															
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y			y			y				
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 10 Wall Protection scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y			y			y				
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y			y			y				
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y			y			y				
B. Documents															
	The Work shall consist of 10 Wall Protection Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:														
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y			y			y				
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y			y			y				
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y			y			y				
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y			y			y				
5	RFI Log dated - TBD	y			n			y			y				
6	Specifications	y			y			y			y				
	- Division 00 - Procurement and Contracting Requirements (Complete)	y			y			y			y				
	- Division 01 - General Requirements (Complete)	y			y			y			y				
	- 102600 - Wall And Door Protection (Complete)	y			y			y			y				
C. Inclusions															
STANDARD REQUIREMENTS															
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			y						Furnish Only				
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y						Furnish Only				
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			y						Furnish Only				



4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y						Furnish Only			Furnish Only
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y						Furnish Only			Furnish Only
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y						Furnish Only			Furnish Only
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		n						Furnish Only			Furnish Only
8	All work performed shall be per governing codes	y		y						Furnish Only			Furnish Only
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y						Furnish Only			Furnish Only
10	Include field measurement as required prior to fabrications	y		y						Furnish Only			Furnish Only
<b>SPECIFIC SCOPE ITEMS</b>													
11	Furnish 96" tall satin, surface-mounted corner guards as required per contract documents. Reference finish schedule (A7-300) and finish floor plans.	y		y				y				y	
12	Furnish full height wall protection, WP-1 per contract documents.	y		y				n	\$12,600	Turner		y	
13													
<b>D. Exclusions</b>													
1	Provide install of wall protection is with Rough Carpentry.	n		y					(\$15,600)	Turner	n		n
2													
<b>E. Special Trade Requirements</b>													
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%	n				#	100%				
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y				TBD		y				y	
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y				y				y	
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y				y				y	
b	Office Policy [ Or Project Specific)	y		y				y				y	
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		n		N/A		y				y	
<b>F. Schedule</b>													
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.													
1	Review and comply with Turner Schedule (AP-6)	y		y				y				y	
2	Duration for submittals and shop drawings, in working days	?				1-2 wk							
3	Duration for fabrication and delivery, in working days	?				4 wk							
4	Installation duration, in working days	?				5 d							
<b>G. Alternates</b>													
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.													
1	100% Payment & Performance Bonds on Turner Forms	y											
2	Provide add alternate for onsite WC and GL insurance	y											
3													
<b>H. Unit Prices</b>													
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.													
1													
2													
3													



### 11 Fall Protection

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date 1/27/2022 @ NOON  
 AP1 Date 03/01/22  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Abdullah Malik, ahmalik@tcco.com, 571-373-2798

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

<b>Summit Anchor Company</b> SAC	Tractel T
Micah Damon 801-703-6625 <a href="mailto:mdamon@summitanchor.com">mdamon@summitanchor.com</a>	Torin Gillen 647-998-5969 <a href="mailto:torin.gillen@tractel.com">torin.gillen@tractel.com</a>
01/28/22	02/02/22
<b>FULLY SCOPED</b>	<b>FULLY SCOPED</b>
\$ 19,189	\$ 32,400
\$ 6,750 35.2%	\$ 778 2.4%
<b>\$ 25,939</b>	<b>\$ 33,178 28%</b>

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>												
	1	Turner Construction Company's Environmental Health and Safety Program	y									
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y									
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y									
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y									
	5	Breakout Cost for Full Time Safety Manager	y									
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y									
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y									
<b>Bid Acknowledgements</b>												
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y									
<b>Contract Attachments</b>												
	2	AP-1 Statement of Work dated 1/12/2022	y									
	3	AP-2 Documents List dated 10/22/2021	y									
	4	AP-3 Supplementary Provisions dated 1/14/2022	y									
	5	AP-4 Logistics Plan dated 12/22/2021	y									
	6	AP-5 BIM Requirements	y									
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y									
	8	AP-7 Equipment Coordination Matrix dated - TBD	y									
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y									
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		<b>[\$576.78]</b>		n		<b>\$778</b>	TCCo
	11	Bid valid for 90 days	y		n		<b>30 days</b>		n		<b>30 days</b>	
	12	Retainage: 5%	y									
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y									
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y									
<b>Key Quantities and Breakouts (Populate Below)</b>												
	1	Total Manhours	#									
	2	Peak # of Workers anticipated	#									
	3	Provide breakout of escalation costs	#									
	4	# of Roof Davit Anchors	#									
	5	LF of Wire Rope	#									
	6	# of Safety Harnesses	#									
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>												
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?									
	2	Where do the materials come from?	?									
	3	What is lead time for materials?	?		?		<b>4 weeks</b>					
	4	Identify Major Subcontractors	?									
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?									
<b>Prequalification</b>												
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?									
	2	Turner Prequalification Number:	?									



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?										
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?										
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?										
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____									
	7	Include Payment and Performance Bond	n	_____%									
<b>Price</b>													
Price:													
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal													
Company:													
Individual:													
Title:													
Signature:													
Date:													
<b>AP-1 Statement of Work</b>						<b>Summit Anchor Company</b>			<b>B1</b>	<b>Tractel</b>			<b>B1</b>
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF						0				0			
11 Fall Protection						-				-			
03/01/22						y/n	Sub						
<b>A. General</b>													
		The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y										
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 11 Fall Protection scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y										
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y										
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y										
<b>B. Documents</b>													
		The Work shall consist of 11 Fall Protection Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:											
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y										
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y										
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y										
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y										
	5	RFI Round 1 Log distributed on 1/18/2022	y										
	6	Specifications	y										
		- Division 00 - Procurement and Contracting Requirements (Complete)	y										
		- Division 01 - General Requirements (Complete)	y										
		- 112425 - Fall Protection Equipment (Complete)	y										
<b>C. Inclusions</b>													
<b>STANDARD REQUIREMENTS</b>													
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y										
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y										
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y										
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y										
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y										
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y										



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y										
	8	All work performed shall be per governing codes	y										
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y										
	10	Include field measurement as required prior to fabrications	y										
		<b>SPECIFIC SCOPE ITEMS</b>											
	11	Provide design and engineering of complete fall protection system in compliance with specifications, OSHA standards, and manufacturer's requirements. All shop drawings and calculations are to be stamped by a Professional Engineer licensed in the jurisdiction of the project.	y			y							
	12	Provide any cable lines required for complete fall protection system.	y			y				y			
	13	Provide coordinating of related work and surfaces to ensure successful completion of work specified in this scope of work.	y			y							
	14	Provide operational instructions to owners reps and selected user personnel as specified in spec section 112425.	y			y							
	15	Participate in preinstallation conference on site.	y										
	16	Provide testing and certification of system as required.	y			y				y			
	17	Include install and welding of all roof davit anchors to metal roof structure, refer to detail C4/A3-901	y			n	Per email response	\$6,750	SAC	y			
		<b>D. Exclusions</b>											
	1	Provide foam in place sealant, sealant and stripping plies at davit roof anchors, refer to detail C4/A3-901 by Roofing	n										
		<b>E. Special Trade Requirements</b>											
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%									
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y										
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y										
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y										
	b	Office Policy [ Or Project Specific)	y										
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y										
	4	Includes escalation of labor and material costs	y										
		<b>F. Schedule</b>											
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.											
	1	Review and comply with Turner Schedule (AP-6)	y										
	2	Duration for submittals and shop drawings, in working days	?							?		25 days	
	3	Duration for fabrication and delivery, in working days	?			?		4 weeks		?		10-14 weeks	
	4	Installation duration, in working days	?							?		4-6 weeks	
		<b>Allowances</b>											
A	1												
A	2												
A	3												
	4												
	5												
							Yes/No -->	Yes		Yes/No -->	Yes		
		<i>Subcontractor Bid</i>						\$ 19,189				\$ 32,400	
		<i>Total Adjustments</i>						\$ 6,750				\$ 778	
		<b>Leveled Total Bid</b>						<b>\$ 25,939</b>				<b>\$ 33,178</b>	
								<b>LOW BID 1</b>				<b>2</b>	28%
		<b>G. Alternates</b>											
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein											
	1	100% Payment & Performance Bonds on Turner Forms	y										
	2	Provide add alternate for onsite WC and GL insurance	y										
		<b>H. Unit Prices</b>											



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.											
	1												



### 11 Food Service

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

<b>Alto Hartley</b>		AH
Peter Huebner (703) 883-1448 (703)883-1448 ext. 108 <a href="mailto:phuebner@altohartley.com">phuebner@altohartley.com</a>		
02/15/22		
<b>FULLY SCOPED</b>		
\$	49,906	
\$	-	0.0%
\$	49,906	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>								
	1	Turner Construction Company's Environmental Health and Safety Program	y					
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y					
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y					
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y					
	5	Breakout Cost for Full Time Safety Manager	y					
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y					
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y					
<b>Bid Acknowledgements</b>								
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y					
<b>Contract Attachments</b>								
	2	AP-1 Statement of Work dated 1/12/2022	y					
	3	AP-2 Documents List dated 10/22/2021	y					
	4	AP-3 Supplementary Provisions dated 1/14/2022	y					
	5	AP-4 Logistics Plan dated 12/22/2021	y					
	6	AP-5 BIM Requirements	y					
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y					
	8	AP-7 Equipment Coordination Matrix dated - 1/25/22	y					
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y					
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		[\$801.78]	AH
	11	Bid valid for 90 days	y					
	12	Retainage: 5%	y					
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y					
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y					
<b>Key Quantities and Breakouts (Populate Below)</b>								
	1	Total Manhours	#					
	2	Peak # of Workers anticipated	#					
	3	Provide breakout of escalation costs	#					
	4	EQ-5 - Follett Ice and Water Dispenser	#		#	2		
	2	EQ-6 - GE Side by Side Refrigerator with water and ice	#		#	3		
	3	EQ-7 - Turbo Air Commercial two section freezer	#		#	1		
	3	EQ-8 - Follett ADA Under Counter Refrigerator	#		#	1		
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>								
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?					
	2	Where do the materials come from?	?					
	3	What is lead time for materials?	?		?		6 months	AH
	4	Identify Major Subcontractors	?					
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?					
<b>Prequalification</b>								
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?					



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
	2	Turner Prequalification Number:	?					
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?					
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?					
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?					
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____				
	7	Include Payment and Performance Bond	n	_____%				
<b>AP-1 Statement of Work</b>					<b>Alto Hartley</b>		<b>B1</b>	
<b>Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF</b>					0			
<b>11 Food Service</b>					-			
01/12/22					y/n	Sub		
<b>A. General</b>								
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y					
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 11 Food Service scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y					
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y					
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y			
<b>B. Documents</b>								
		The Work shall consist of 11 Food Service Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:						
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y					
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y					
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y					
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y					
	5	RFI Round 1 Log distributed on 1/18/2022	y					
	6	RFI Round 2 Log distributed on 1/24/2022	y					
	7	RFI Round 3 Log distributed on 1/27/2022	y					
	8	RFI Round 4 Log not distributed	y					
	9	RFI Round 5 Log not distributed	y					
	10	Specifications						
		- Division 00 - Procurement and Contracting Requirements (Complete)	y					
		- Division 01 - General Requirements (Complete)	y					
		- 11 40 00 - Food Service Equipment	y		y			
<b>C. Inclusions</b>								
<b>STANDARD REQUIREMENTS</b>								
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		n			
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y			
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		n			
	4	Include all trade relative work in the Division One Specifications. Temporary Facilities, etc.	y		n			
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		n			
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		n			
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		n			
	8	All work performed shall be per governing codes	y		y			
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		n			
	10	Include field measurement as required prior to fabrications	y		n			



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
		<b>SPECIFIC SCOPE ITEMS</b>						
	11	Provide 90lb capacity ice maker and accessories as indicated in contract documents	y		y			
	12	Include the following items	y		y			
		425 lb (193.0 kg) daily production of Chewblet ice.						
		Automatic self-flushing of ice machine.						
		Drain cup.						
		Silver-based antimicrobial protection.						
		LED control board.						
		Stainless steel evaporator and auger.						
		Stainless steel cabinet with accent trim.						
		Corrosion-resistant poly drain pan, grille and dispenser lid.						
	13	Provide qualified and trained personnel to demonstrate operation of equipment and instruct owner in operating procedures and maintenance.	y		n			
	14	Provide rough-in hardware, supports and connections, attachment devices, closure trim, and accessories as required for complete installation.	y		n		n/a	
	15	Provide warranty as indicated in contract documents.	y		n	Standard 3 year parts and labor, 2 additional years of compressor (parts only)		
	16	<b>Provide all food service equipment per drawing A6-101</b>	y		y	Updated proposal		
	17	<b>Confirm acceptance of ART Covid Policy dated 8.27.21</b>	y		y	Via Email		
		<b>D. Exclusions</b>						
	1	Provide electrical power source for food service equipment by electrical	n		n			
	2	Provide plumbing source for food service equipment and final connection by plumbing	n		n			
		<b>E. Special Trade Requirements</b>						
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%				
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y					
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y					
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y					
	b	Office Policy [ Or Project Specific)	y					
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y					
	4	Includes escalation of labor and material costs	y					
		<b>F. Schedule</b>						
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.						
	1	Review and comply with Turner Schedule (AP-6)	y					
	2	Duration for submittals and shop drawings, in working days	?					
	3	Duration for fabrication and delivery, in working days	?					
	4	Installation duration, in working days	?					
		<b>G. Alternates</b>						
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.						
	1	100% Payment & Performance Bonds on Turner Forms	y					
	2	Provide add alternate for onsite WC and GL insurance	y					
		<b>H. Unit Prices</b>						
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.						
	1							
	2							
	3							



11 Vehicle Serv Equip	
Project	Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF
Job #	20039
A/E	Stantec Architecture Inc.
Bid Date	1/27/2022 @ NOON
AP1 Date	03/01/22
Est	Scott Stevenson
Pro	Johnnel Lanham
Ops	Derek Brown
Estimator	Abdullah Malik, ahmalik@tcco.com, 571-373-2798

Y	INCLUDED
N	EXCLUDED
?	QUESTION
#	QUANTITY

B&R Associates	B&R	Turner Hydraulics	TH	Nederman USA + B&R	NUS	Tractel + B&R	T	Delware Elevators + B&R	DE
Rich Stewart 240-372-4373 rstewart@bandrassociates.com		Billy Turner 717-243-3329 ext. 7202 bturner@turnerhydraulics.com		David Fleming 978-534-5942 davidacf@comcast.net		Torin Gillen 647-998-5969 torin.gillen@tractel.com		Dwight Hastings 410-749-3489 dhastings@delawarelevator.com	
02/03/22		02/15/22		01/07/22		01/26/22		01/25/22	
FULLY SCOPED		FULLY SCOPED		NO		NO		NO	
\$ 1,446,248		\$ 1,354,680		\$ 87,737		\$ 103,700		\$ 167,905	
\$ - 0.0%		\$ 167,905 12.4%		\$ - 0.0%		\$ - 0.0%		\$ - 0.0%	
\$ 1,446,248		\$ 1,522,585 5%		Incomplete		Incomplete		Incomplete	
Providing Full Scope		Providing Full Scope		Furnish Only Vacuum Equipment		F & I Fall Arrest System Only		F & I Straddle Parts Lift Only	

A/O	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
		<b>Turner Construction Company's Environmental Health and Safety Program</b>																						
	1	Turner Construction Company's Environmental Health and Safety Program		Y		Y				Y														
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions		Y		Y				Y														
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.		Y		Y				N														
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.		Y		Y				N														
	5	Breakout Cost for Full Time Safety Manager		Y		Y				N														
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"		Y		Y				Y														
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)		Y		Y				N														
		<b>Bid Acknowledgements</b>																						
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)		Y		Y				Y														
		<b>Contract Attachments</b>																						
	2	AP-1 Statement of Work dated 1/12/2022		Y		Y				Y														
	3	AP-2 Documents List dated 10/22/2021		Y		Y				Y														
	4	AP-3 Supplementary Provisions dated 1/14/2022		Y		Y				Y														
	5	AP-4 Logistics Plan dated 12/22/2021		Y		Y				Y														
	6	AP-5 BIM Requirements		Y		Y				Y														
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021		Y		Y				Y														
	8	AP-7 Equipment Coordination Matrix dated - 1/25/2022		Y		Y				Y														
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable Insurances.		Y		Y				Y														
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)		Y		Y		[\$61,542]	B&R	Y		[\$76,680]	TH											
	11	Bid valid for 90 days		Y		Y				Y														
	12	Retainage: 5%		Y		Y				Y														
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion		Y		Y				Y														
	14	LEED: LEED Silver; Project is striving for minimal environmental impact		Y		Y				Y														
		<b>Key Quantities and Breakouts (Populate Below)</b>																						
	1	Total Manhours		#		#	2694 MH			#	1200 MH													
	2	Peak # of Workers anticipated		#		#	8 Workers			#	4 Workers													
	3	Provide breakout of escalation costs		#		N	Not included assume 15% Material & 7% Labor			N	Not included													
		<b>Compressed Air Equipment</b>																						
	4	AC01 - Air Compressor, Duplex, 20 Hp, 250 Gallon.		#		#	1			#	1													
	5	AD01 - Air Dryer, Desiccant, 200 Cfm		#		#	1			#	1													
	6	AR01 - Vertical Air Receiver, 120 Gallon		#		#	1			#	1													
	7	FR02 - Air Filter-Regulator With 1/2" Quick Disconnect		#		#	18			#	23													
	8	Industrial Compressed Air Equipment Piping - Provide Linear Footage		#		#	1120			#	1200													
		<b>Lubrication &amp; Fluids Management Equipment</b>																						
	9	CG01 - Chassis Grease Pump		#		#	1			#	1													
	10	DP01 - Portable Drain Pan, (Uc) Receiver		#		#	2			#	1													
	11	DP02 - Portable Drain Pan, (Uo) Receiver		#		#	2			#	1													
	12	HR01 - Hose Reel (Aif, Ec, Eo, Cg, Electrical)		#		#	30			#	18													
	13	HR02 - Hose Reel (Ca, Wwf)		#		#	with above			#	2													
	14	MT01 - Double Wall Tank, Multi Compartment 1200 Gallons (Uc, Uo)		#		#	1			#	1													
	15	MT02 - Double Wall Tank, Multi Compartment 1750 Gallons (Aif, Ec, Eo)		#		#	1			#	1													
	16	PD01 - Diaphragm Pump, (Aif, Ec)		#		#	1			#	1													
	17	PD02 - Diaphragm Pump, (Uc)		#		#	1			#	1													
	18	PD03 - Diaphragm Pump, (Uo)		#		#	1			#	1													
	19	PD04 - Diaphragm Pump (Antifreeze/Engine Coolant, Automatic Transmission Fluid, Windshield Washer Fluid, Water, Fuel)		#		#	1			#	1													
	20	PP01 - Piston Pump 10:1, (Eo)		#		#	1			#	1													
	21	PP02 - Piston Pump 10:1, (Aif)		#		#	1			#	1													
	22	WW01 - Polyethylene Tank, Double Wall, 150 Gallon, (Wwf)		#		#	1			#	1													
	23	Lubrication Fluids Piping - Provide Linear Footage		#		#	1493			#	1035													
	24	Waste Oil & Coolant Piping - Provide Linear Footage		#		#	with item 23			#														
	25	Diaphragm Pump Piping - Provide Linear Footage		#		#	1900			#	340													
	26	Polyethylene Tank Piping - Provide Linear Footage		#		#	with item 23			N														
		<b>Industrial Shop Equipment</b>																						
	27	BB02 - Battery Charging Box And Bars		#		#	2			#	2													
	28	BG01 - Bench Buffer/Grinder, 8-Inch		#		#	1			#	1													
	29	DR01 - Drill Press, Floor-Standing		#		#	1			#	1													
	30	EB01 - Electrical Workbench		#		#	1			#	1													
	31	FA01 - Fall Arrest Track, Dual Truss, With Self-Retracting Lifelines And Harnesses		#		#	7			#	7													
	32	FS01 - Floor Scrubber, 28-Inch Path		#		#	1			#	1													
	33	HP01 - Hydraulic Press, Electric/Hydraulic, 50 Ton		#		#	1			#	1													
	34	LT01 - Portable Lift Table, 1,100 Pounds		#		#	1			#	1													
	35	PC01 - Solvent Parts Washer, 15-20 Gallon		#		#	1			#	1													
	36	PJ01 - Motorized Pallet Jack		#		#	1			#	1													
	37	PL02 - Straddle Parts Lift, 60-Inch By 60-Inch, 2,000 Pound Capacity		#		#	1			N	0													
	38	PW01 - High-Pressure Washer, Hot Water, Stationary - Natural Gas		#		#	1			#	1													
	39	PW02 - High-Pressure Washer, Hot Water, Stationary - Parts & Accessories		#		#	2			#	2													
	40	PW03 - Parts Washer, Front Load, 750 Pounds		#		#	1			#	1													



A/Q Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug									
2	Where do the materials come from?	?		?																								
3	What is lead time for materials?	?		?	16 weeks			?	1-6 months																			
4	Identify Major Subcontractors	?		?	N/A			?	Graco																			
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?	0%				0%																			
<b>Prequalification</b>																												
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?	Yes																							
2	Turner Prequalification Number:	?		?	89551																							
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?	Not Provided																							
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?		?	Yes																							
5	Current Experience Modification Rating (EMR) - must be 1.0 or below (or EMR Waiver required):	?		?	1.52			?	1.00																			
6	Provide Payment and Performance Bond Rate (Provide Rate: _____%)	?		?	1.50%			?	2.50%																			
7	Include Payment and Performance Bond	n		n				n																				
<b>Price</b>																												
10% Bid Bond on Turner Bid Bond Form - Recommended standard (or insert BU, project, or bid package specific requirements)																												
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																												
Company:																												
Individual:																												
Title:																												
Signature:																												
Date:																												
<b>AP-1 Statement of Work</b>																												
				<b>B&amp;R Associates</b>				B1	<b>Turner Hydraulics</b>				B1	<b>Nederman USA + B&amp;R</b>				B1	<b>Tractel + B&amp;R</b>				B1	<b>Delware Elevators + B&amp;F</b>				B1
<b>Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF</b>				0					0					0					Torin Gillen 647-998-5969				Dwight Hastings 410-749-3489					
<b>11 Vehicle Serv Equip</b>				-					-																			
03/01/22				y/n		Sub																						
<b>A. General</b>																												
The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.																												
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 11 Vehicle Serv Equip scope as defined in this Statement of Work and as shown or described in the Contract Documents.																												
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.																												
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."																												
<b>B. Documents</b>																												
The Work shall consist of 11 Vehicle Serv Equip Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																												
1 Phase IV Submission for GMP Drawings - dated 12/21/2021																												
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8 RFI Round 4 Log not distributed																												
9 Specifications																												
- Division 00 - Procurement and Contracting Requirements (Complete)																												
- Division 01 - General Requirements (Complete)																												
- 111110 - Industrial Compressed Air Equipment (Complete)																												
- 111119 - Industrial Lubrication Equipment (Complete)																												
- 111120 - Industrial Fluids Management Equipment (Complete)																												
- 111129 - Industrial Shop Equipment (Complete)																												
- 111133 - Industrial Vacuum Equipment (Complete)																												
- 111136 - Custom Fabricated Industrial Shop Equipment (Complete)																												
- 220553 - Identification for Plumbing Piping and Equipment (As Applicable)																												
- 221513 - General-Service Compressed Air Piping (Complete)																												
- 221513.11 - Industrial Compressed Air Equipment Piping (Complete)																												
- 221519 - General Service Packaged Air Compressors and Receivers (Complete)																												
<b>C. Inclusions</b>																												
<b>STANDARD REQUIREMENTS</b>																												
1 Includes Hoisting/Rigging/Scaffolding Required for your Work																												
2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters																												
3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)																												
4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.																												
5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system																												
6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system																												
7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.																												
8 All work performed shall be per governing codes																												
9 Include cost of all surveying and layout (baseline survey to be provided by others)																												
10 Include field measurement as required prior to fabrications																												
<b>SPECIFIC SCOPE ITEMS</b>																												
11 Provide turn key install of equipment, controls, accessories and associated piping including but not limited for Compressed Air Equipment, Lubrication Equipment, Fluids Management Equipment, Shop Equipment, Vacuum Equipment, Fall Protection Equipment, and Fabricated Industrial Shop Equipment																												
11 Provide coordination of scope of work as it relates to all other trades and as specified in contract documents.																												
12 Provide warranty as indicated in contract documents.																												
12 Provide labeling for each equipment as indicated in contract documents.																												
13 Provide all testing and start up services as outlined in specifications.																												
14 Comply with Dederal (EPA, DOT, OSHA), State and Local Laws, regulations and safety standards.																												
15 Provide preparation for install of scope of work as defined in contract documents.																												
16 Provide approved manufacturers as indicated in contract documents.																												
17 Provide seismic and vibration performances as indicated in contract documents.																												
18 Protect installed products from damage during remainder of the construction period.																												



A/Q Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
19	Provide finishes of all equipment's as specified in contract documents.	y		y				y								y			
20	Include all service equipment details as it relates to this scope of work, refer to details on drawings Q6-500 & Q6-501.	y		y				y											
21	<b>Confirm acceptance of ART Covid Policy dated 8.27.21</b>	y		y															
<b>Compressed Air System</b>																			
22	Provide extra maintenance materials as outlined in contract documents.	y		y		[\$134,491]		y								n			
23	Coordinate electrical requirements with electrical contractor.	y		y				y								n			
24	Provide all piping for a turn key install of compressed air system specified.	y		y				y								n			
<b>Lubrication &amp; Fluids Management Equipment</b>																			
25	Provide fluid storage tanks (double wall steel), associated piping, valves, filters, strainers, flexible connections, pneumatic pumps, hose reel assemblies, and hose reel racks.	y		y		(\$534,875)		y								n			
26	Provide capacity of fluid tanks as indicated in contract documents.	y		y				y								n			
27	Provide piping material as described in contract documents.	y		y		See Piping Schedule		n		See Piping Schedule						n			
<b>Industrial Shop Equipment</b>																			
28	Provide portable work platforms, battery chargers with bus bar, buffers, grinders, floor scrubbers, air/hydraulic press, vises, high pressure washers hot water washers, parts washers, and fall arrest system.	y		y		[\$603,354]		y								n			
29	Provide mounting of Fall Arrest System as indicated in contract documents, refer to detail 2/Q6-501.	y		y				y								n			
30	Provide straddle parts lift as indicated in contract documents, refer to detail 3/Q6-501.	y		y				n		\$ 167,905	DE					y			
31	Coordinate pit drainage requirements and location with plumbing contractor.	y		y				n		See Line 29						n			
32	Include welded wire mesh surrounding straddle parts lift, refer to detail 3/S6-501.	y		y				n		See Line 29						y			
33	Provide conduits, controls and hydraulic pump unit for a turn key install of straddle parts lift.	y		y				n		See Line 29						y			
<b>Vacuum Equipment</b>																			
34	Anchor equipment indicated to be permanently fixed in place using fasteners of type recommended by equipment manufacturer.	y		y		[\$135,124]		y								n			
35	Install equipment with access and maintenance clearances that comply with manufacturer's written installation instructions and with requirements of authorities having jurisdiction.	y		y				y								n			
<b>Custom Industrial Shop Equipment</b>																			
36	Provide heavy duty work benches and battery benches.	y		y		[\$38,404]		y								n			
37	Provide load capacities as indicated in contract documents.	y		y				y								n			
<b>D. Exclusions</b>																			
1	Provide Safety Signage per drawings Q7-100 & Q7-311 by Signage	n		n				n											
2	Provide Striping per drawings Q7-100 & Q7-311 by Painting	n		n				n											
3	Provide pit drainage for straddle parts lift by Plumbing	n		n				n											
4	Provide support steel structure for fall arrest system, refer to detail 2/Q6-501 by Structural Steel	n		n				n											
5	Provide support steel structure for hose reels, refer to details 5/Q6-500 and 8/Q6-500 by Structural Steel	n		n				n											
6	Provide housekeeping pads for shop equipment by Concrete	n		n				n											
<b>E. Special Trade Requirements</b>																			
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%	#	0%														
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y															
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		n		N/A													
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y															
b	Office Policy (Or Project Specific)	y		n		N/A													
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		y															
4	Includes escalation of labor and material costs	y		y															
<b>F. Schedule</b>																			
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																			
1	Review and comply with Turner Schedule (AP-6)	y		y												y			
2	Duration for submittals and shop drawings, in working days	?		?	10 days											?	15 days		
3	Duration for fabrication and delivery, in working days	?		?	100 days											?	100 days		
4	Installation duration, in working days	?		?	85 days											?	30 days		
5																			
<b>G. Alternates</b>																			
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.																			
1	100% Payment & Performance Bonds on Turner Forms	y																	
2	Provide add alternate for onsite WC and GL insurance	y																	
<b>H. Unit Prices</b>																			
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.																			



### 12 Window Treatments

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/19/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Estimator Tucker Winfrey 571-612-9492 twinfrey@tcco.com

Contract Decor	CD	EN2 Shade	EN2	Goodwin Brothers	GB	Direct Path Corporation	DPC
Dave Stewart 800-631-7013 760-409-8606 <a href="mailto:dstewart@contract-decor.com">dstewart@contract-decor.com</a>		Daniel Buckingham 301-658-7600 202-355-5401 <a href="mailto:dbuckingham@en2shade.com">dbuckingham@en2shade.com</a>		Mark Striebich 301-424-3770 443-844-2459 <a href="mailto:marks@gbshades.com">marks@gbshades.com</a>		Eddie Boddie 703-461-0433 571-982-3053 <a href="mailto:eboddie@directpath.com">eboddie@directpath.com</a>	
09/23/19		01/31/22		01/27/22		01/28/22	
<b>NO</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ -		\$ 51,990		\$ 57,245		\$ 57,390	
\$ 80 #DIV/0!		\$ 80 0.2%		\$ 80 0.1%		\$ - 0.0%	
<b>Incomplete</b>		<b>\$ 52,070</b>		<b>\$ 57,325 10%</b>		<b>\$ 57,390 10%</b>	
		Will be pricing Mecho however is willing to price other manufacturers upon request. This is the BOD however he said Draper may be 30% cheaper and doesn't want to lose to someone pricing an alt excepted manufacturer		Basis of design is Mechoshade and it calls us out on the plans as well, he has priced this. Specs list other acceptable manufacturers (one of which being Draper) he has included an alternate for \$41,900 if we choose to carry that instead		They will carry Draper who is an accepted manufacturer - However the fabric called out as only made by Mecho	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
		<b>Turner Construction Company's Environmental Health and Safety Program</b>																		
	1	Turner Construction Company's Environmental Health and Safety Program	y																	
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y																	
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y																	
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y																	
	5	Breakout Cost for Full Time Safety Manager	y																	
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y																	
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y																	
		<b>Bid Acknowledgements</b>																		
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y																	
		<b>Contract Attachments</b>																		
	2	AP-1 Statement of Work dated 1/12/2022	y																	
	3	AP-2 Documents List dated 10/22/2021	y																	
	4	AP-3 Supplementary Provisions dated 1/14/2022	y																	
	5	AP-4 Logistics Plan dated 12/22/2021	y																	
	6	AP-5 BIM Requirements	y																	
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y																	
	8	AP-7 Equipment Coordination Matrix dated - TBD	y																	
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y																	
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y																	
	11	Bid valid for 90 days	y																	
	12	Retainage: 5%	y																	
	13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y																	
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y																	
	15	Arlington Contractor Covid Policy	y		n		\$80		n		\$80		n		\$80		y	n/a		
		<b>Key Quantities and Breakouts (Populate Below)</b>																		
	1	Total Manhours	#																	
	2	Peak # of Workers anticipated	#																	
	3	Provide breakout of escalation costs	#																	
	4	Total number of window treatments WT-1	#			#	3327/sf		#	3440/sf		#	3225/sf							
		<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																		
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?						?											
	2	Where do the materials come from?	?						?											
	3	What is lead time for materials?	?						?	4-5 weeks										
	4	Identify Major Subcontractors	?						?											
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?						?	0%										
		<b>Prequalification</b>																		
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?																	
	2	Turner Prequalification Number:	?																	
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																	



6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR _____																	
7	Include Payment and Performance Bond	n	_____ %																	
<b>Price</b>																				
Price:																				
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																				
Company:																				
Individual:																				
Title:																				
Signature:																				
Date:																				
<b>AP-1 Statement of Work</b>				<b>Contract Decor</b>	<b>B1</b>	<b>EN2 Shade</b>	<b>B1</b>	<b>Goodwin Brothers</b>	<b>B1</b>	<b>Direct Path Corporation</b>	<b>B1</b>									
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		0		0		Eddie Boddie										
12 Window Treatments				-		-		-		703-461-0433										
01/19/22				y/n	Sub															
<b>A. General</b>																				
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y																		
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 12 Window Treatments scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y																		
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y																		
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y																		
<b>B. Documents</b>																				
	The Work shall consist of 12 Window Treatments Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																			
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021	y																		
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y																		
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y																		
	4 Phase IV Submission for GMP Specifications dated 12/21/2021	y																		
	5 RFI Log dated - TBD	y																		
	6 Specifications	y																		
	- Division 00 - Procurement and Contracting Requirements (Complete)	y																		
	- Division 01 - General Requirements (Complete)	y																		
	061000 - Rough Carpentry (As Applicable)	y																		
	- 122400 - Window Shades (Complete)	y																		
<b>C. Inclusions</b>																				
<b>STANDARD REQUIREMENTS</b>																				
	1 Includes Hoisting/Rigging/Scaffolding Required for your Work	y																		
	2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y																		
	3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y																		
	4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y																		
	5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y																		
	6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y																		
	7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y																		
	8 All work performed shall be per governing codes	y																		
	9 Include cost of all surveying and layout (baseline survey to be provided by others)	y																		
	10 Include field measurement as required prior to fabrications	y																		
<b>SPECIFIC SCOPE ITEMS</b>																				
	11 Provide all window shades as manually operated "MechoShade" Ecoveil 1550 -3% Open, in Silver Birch 1569 or equivalent	y																		
	12 Provide all required hardware and accessories Including, but not limited to, mounting brackets, roller tubes, handlebars etc.	y																		
	13 Provide one year warranty as outlined in the specification	y																		
	14 Include pre-manufactured enclosure, removable fascia closure panel to be white as noted in detail 7/A6-401	y																		



15	Include pre-manufactured enclosure, removable fascia closure panel to be white as noted in detail 8/A6-401	y				y				y				y																																															
<b>D. Exclusions</b>																																																													
1	Provide aluminum sunshade integrated with storefront w/ glass and glazing contractor	n								n				n																																															
2	Provide in wall blocking w/ rough carpentry	n								n				n																																															
<b>E. Special Trade Requirements</b>																																																													
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**14 Elevators**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date 1/27/2022 @ NOON  
 AP1 Date 03/01/22  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Abdullah Malik, ahmalik@tcco.com, 571-373-2798

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Kone	K	Otis Elevator Company	OEC	TKE	TKE	Delaware Elevator	DE
Howard Foster 240-425-9460 howard.foster@kone.com		Jane Lower 614-549-4267 jane.lower@otis.com		Vova Parkhomovskiy 571-296-7112 vladimir.parkhomovskiy@tkelevator.com		Dwight Hastings 410-749-3489 dhastings@delawareelevator.com	
02/03/22		01/28/22		01/28/22		01/26/22	
FULLY SCOPED		FULLY SCOPED		FULLY SCOPED		FULLY SCOPED	
\$ 480,000		\$ 635,000		\$ 715,000		\$ 1,177,026	
\$ 72,000	15.0%	\$ 58,600	9.2%	\$ 117,900	16.5%	\$ -	0.0%
\$ 552,000		\$ 693,600	26%	\$ 832,900	51%	\$ 1,177,026	113%

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
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	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y			y														
	8	AP-7 Equipment Coordination Matrix dated - 1/25/2022	y																	
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurance	y																	
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y			y	\$[11,032]		y		\$[14,000]		y							
	11	Bid valid for 90 days	y			n	30 days		n		30 days		n		30 days					
	12	Retainage: 5%	y																	
	13	Liquidated Damages \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y						y											
	14	LEED: LEED Silver. Project is striving for minimal environmental impact	y																	
		<b>Key Quantities and Breakouts (Populate Below)</b>																		
	1	Total Manhours	#																	
	2	Peak # of Workers anticipated	#																	
	3	Provide breakout of escalation costs	#																	
	4	Number of Elevators	#			#	3		#	3			#	3						
	5	Number of Stops per Elevator	#			#	4		#	4			#	4						
	6	Provide breakout of Parking Garage Elevator Cost	#																	
	7	Provide breakout of Maintenance Building Elevator Costs	#																	
		<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																		
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?																	
	2	Where do the materials come from?	?																	
	3	What is lead time for materials?	?																	
	4	Identify Major Subcontractors	?																	
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is 30% BUUBE Participation Goal	?																	
		<b>Pregualification</b>																		
	1	Current Pregualification Questionnaire on file or Submitted at time of Bid	?																	
	2	Turner Pregualification Number:	?																	
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?						?	0.55										
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?			?	0.60%		?	0.30%										
	7	Include Payment and Performance Bond	n			n			n											
		<b>Price</b>																		
		Price:																		
		Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this propos:																		
		Company:																		
		Individual:																		
		Title:																		
		Signature:																		
		Date:																		
		<b>AP-1 Statement of Work</b>																		
		Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF					0	B1		0	B1		0	B1		0	B1			
		14 Elevators					-			-			-			-				
		03/01/22																		
		<b>A. General</b>																		
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y																	



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 14 Elevators scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y																	
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y																	
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y																	
<b>B. Documents</b>																				
		The Work shall consist of 14 Elevators Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stanted Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																		
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y				y											
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y				y											
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		n		N/A		y											
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y				y											
	5	RFI Round 1 Log distributed on 1/18/2022	y		n		N/A		y				n		N/A					
	6	RFI Round 2 Log distributed on 1/24/2022	y		n		N/A		n		N/A		n		N/A					
	7	RFI Round 3 Log distributed on 1/27/2022	y		n		N/A		n		N/A		n		N/A					
	8	RFI Round 4 Log not distributed	y																	
	9	RFI Round 5 Log not distributed	y																	
	10	Specifications																		
		- Division 00 - Procurement and Contracting Requirements (Complete)	y						y											
		- Division 01 - General Requirements (Complete)	y						y											
		- 142100 - Electric Traction Elevators (Complete)	y		y				y											
		- 260533.13 - Conduit for Electrical Systems (As Applicable)	y						y											
		- 284600 - Fire Detection and Alarm (As Applicable)	y						y											
<b>C. Inclusions</b>																				
<b>STANDARD REQUIREMENTS</b>																				
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y																	
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y																	
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y																	
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y																	
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y																	
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y																	
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field	y																	
	8	All work performed shall be per governing codes	y																	
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y																	
	10	Include field measurement as required prior to fabrications	y																	
		<b>SPECIFIC SCOPE ITEMS</b>																		
	11	Provide complete Elevator system per Contract Documents.	y		y				y											
	12	Provide Traction Passenger Elevators No 1, 2 & P1; 4000#; 350fpm; 4 Stops ea, 4 Front Openings	n		n				y	Provided all elevators as 4000lbs at 350fpm per specs				y	Provided all elevators as 4000lbs at 350fpm per specs				y	Provided all elevators as 4000lbs at 350fpm per specs
	13	Provide Traction Passenger Elevators for openings indicated below with up to 4000# capacity and speeds higher than 150fpm, 4 stops each and 4 front openings:  P1 - 9' 8 1/4" wide x 9' 11 3/8" deep No 1 - 7' 8" wide x 9' 8" deep No 2 - 9' 8" wide x 9' 4 3/8" deep	y		y				n		(\$15,000)		K		(\$15,000)				K	
	14	Provide guide rails	y		y				y											
	15	Provide entrance frames, doors, sills, and hall fixtures at all floors	y		y				y											
	16	Coordinate installation of sleeves and blockouts for your work	y		y				n											
	17	Note any deviations from the currently detailed hoist way, pit, and overrun dimensions shown on the contract documents.	y		y	Provided with proposal			y	Provided with proposal										
	18	Furnish any embeds, sleeves, anchors, etc. as indicated in the Contract Documents to be required for this scope of work. Provide early coordination drawings that show the location of the sleeves and openings required for your work coordinated with other subcontractors.	y		y				y											
	19	Seal any penetrations through fire-rated assemblies made during the install of this work.	y		y				y											
	20	Coordinate with affected trades for connections, wiring, penetrations, tie-ins, etc.	y		y				y											
	21	Subcontractor shall coordinate with the electrician for transfer from temporary power to permanent power.	y		y				y											
	22	Provide all cab finishes as indicated in contract documents.	y		y	Provided 441 SS instead of 304			y				y	Provided 441 SS instead of 304						
	23	Provide elevator protection pads and holders within each cab.	y		y				y											
	24	Provide all specified maintenance and service contracts.	y		y				y											
	25	Provide Demonstration and training to Owners personnel	y		y				y											
	26	Provide 3rd party inspections costs	y		y				y											
	27	Provide all permits and fees	y		y				y											
	28	Provide reinspection costs	y		y	\$3,500			y	\$2,500										
	29	Provide refurbishment of service elevator, control rooms, shafts, and pits after construction use.	y		n		\$5,000	OEC	n		\$5,000	OEC			\$3,500	TKE				
	30	Provide 1 year warranty and Maintenance starting at turnover to the Owner	y		y				y											
	31	Provide cleaning of hoist way, control rooms, and pits prior to punch list and substantial completion.	y		n	\$200/hr for 80hr	\$16,000	Kone	n	\$310/hr for 80hr	\$24,800	Turner	n	\$360hr for 80hr	\$28,800	Turner				
	32	Subcontractor shall dedicate one crew to the construction of the temporary elevator.	y		y	Only one crew on site			y											
	33	Include the early turnover of a construction cab including all temporary measures, inspections, rebalancing, maintenance and warranty etc.	y		n		See line 35		n		See line 35		n		See line 35					
	34	Subcontractor will prepare service elevator for construction use 14 weeks after start date.	y		y				y											



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
	35	Provide 160 hours total hours of elevator operation for use by other trades for work with in shaft tracked on daily tickets.	y		n	\$200/hr rate	\$32,000	K	n	\$180/hr	\$28,800	OEC	n	\$210/hr rate	\$33,600	TKE					
	36	Include 8 months of construction use for one building elevator including the shaft clean at the end of time period	y		n	\$1500/ month	\$12,000	K	n	\$1000 /month	\$8,000	OEC		\$250/day	\$60,000	TKE					
	37	Provide Tie-in of phone and security in elevator room	y		y				y												
	38	Provide wire from fire control room to elevator hoistway.	y		y				n												
	39	Provide all conduit and wire from controller to elevator equipment	y		y				y												
	40	Provide elevator travel cable with adequate size for phones, FA devices, security, cameras, etc.	y		y				n												
	41	Comply with seismic design requirements as indicated in contract documents.	y		y																
	42	Confirm acceptance of ART Covid Policy dated 8.27.21	y		n	via email	\$1,000	K	n	Pending Confirmation	\$1,000	Turner	n		\$1,000	Turner					
	43	Provide battery lowering devices at garage elevator	y		n	via email	\$6,000	K	n		\$6,000	K	n		\$6,000	K					
	44	Provide elevator pit access ladders	y		y				n				n								
	<b>D. Exclusions</b>																				
	1	Provide elevator resilient sheet flooring, by Flooring	n		n				n				n								
	2	Provide 3/4" plywood subfloor, by Rough Carpentry	n		n				n				n								
	3	Provide guide rail structural supports/divider beams, by Misc Metals	n		n				n				n								
	4	Provide elevator pit access ladders, by Misc Metals	n		y				n				n								
	5	Provide grout of elevator sill angles, by Concrete	n		n				n				n								
	7	Protection at elevator fronts will be provided by Rough Carpentry	n		n				n				n								
	8	Hoistway protection during construction by Drywall	n		n				n				n								
	9	Provide Conduit from the various elevator banks to the remote control panels, by Electrical Subcontractor.	n		n				n				n								
	<b>E. Special Trade Requirements</b>																				
	1	% UBE - Underutilized Business Enterprise(Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#		____%																
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y																		
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y																		
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y																		
	b	Office Policy ( Or Project Specific)	y																		
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y																		
	<b>F. Schedule</b>																				
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule																				
	1	Review and comply with Turner Schedule (AP-6)	y		y				y												
	2	Duration for submittals and shop drawings, in working days	?		?	10 days			?	20 days			?	20 days							
	3	Duration for fabrication and delivery, in working days	?		?	70 days each			?	50 days each			?	100 days each							
	4	Installation duration, in working days	?		?	120 days			?	130 days total			?	105 days total							
	<b>G. Alternates</b>																				
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herei																				
	1	100% Payment & Performance Bonds on Turner Form	y																		
	2	Provide add alternate for onsite WC and GL insuranc	y																		
	<b>H. Unit Prices</b>																				
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price																				
	1																				
	2																				



### 14 Lifts

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date 1/27/2022 @ NOON  
 AP1 Date 03/01/22  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Abdullah Malik, ahmalik@tcco.com, 571-373-2798

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Alan Tye Associates		ATA	B&R Associates		B&R
John Ward			Rich Stewart		
571-422-6861			240-372-4373		
<a href="mailto:john@alantylifts.com">john@alantylifts.com</a>			<a href="mailto:rstewart@bandrassociates.com">rstewart@bandrassociates.com</a>		
01/27/22			01/27/22		
<b>FULLY SCOPED</b>			<b>FULLY SCOPED</b>		
\$ 625,364			\$ 661,213		
\$ 25,000		4.0%	\$ -		0.0%
\$ 650,364			\$ 661,213		2%

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>												
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y						n			
	5	Breakout Cost for Full Time Safety Manager	y						n			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y			
<b>Bid Acknowledgements</b>												
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		n				y			
<b>Contract Attachments</b>												
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y			
	3	AP-2 Documents List dated 10/22/2021	y						y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y						y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y			
	6	AP-5 BIM Requirements	y		n				y			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y			
	8	AP-7 Equipment Coordination Matrix dated - 1/25/2022	y		y				y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		[\$32,601]		y		[\$35,879]	
	11	Bid valid for 90 days	y		y	90 days			y			
	12	Retainage: 5%	y		y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		n				y			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		n				y			
<b>Key Quantities and Breakouts (Populate Below)</b>												
	1	Total Manhours	#		#	192			#	132		
	2	Peak # of Workers anticipated	#		#	4			#	2		
	3	Provide breakout of escalation costs	#		n				n			
	4	# of Parallelogram Lifts	n		n				n			
	5	# of Mobile Column Lifts	#		#	5			#	5		
	6	# of Vertical Rise Lifts	#		#	3			#	3		
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>												
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	Company			?	Company		
	2	Where do the materials come from?	?		?				?	Parallelogram from italy		
	3	What is lead time for materials?	?		?	2-7 weeks			?	16 weeks		
	4	Identify Major Subcontractors	?		?	No			?	No		
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?	0%			?	0%		
<b>Prequalification</b>												
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		?	Yes			?	Yes		
	2	Turner Prequalification Number:	?		?	88721			?	89551		
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		?	Yes			n	will provide later		



A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?			?	Yes			?	Yes			
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?			?	0.90			?	1.52			
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?			?	1.44%			?	1.50%			
	7	Include Payment and Performance Bond	n	_____%		n				n				
<b>Price</b>														
Price:														
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.														
Company:														
Individual:														
Title:														
Signature:														
Date:														
<b>AP-1 Statement of Work</b>					<b>Alan Tye Associates</b>				<b>B1</b>	<b>B&amp;R Associates</b>				<b>B1</b>
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF					0				0					
14 Lifts					-				-					
03/01/22														
<b>A. General</b>			y/n		Sub									
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y							y				
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 14 Lifts scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y				y				
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			n				y				
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y				y				
<b>B. Documents</b>														
		The Work shall consist of 14 Lifts Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:												
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y				y				
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y				y				
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y				y				
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y				y				
	5	RFI Round 1 Log distributed on 1/18/2022	y			y				y				
	6	RFI Round 2 Log distributed on 1/24/2022	y			n		n/a		n		n/a		
	7	RFI Round 3 Log distributed on 1/27/2022	y			n		n/a		n		n/a		
	8	RFI Round 4 Log not distributed	y			n		n/a		n		n/a		
	9	Specifications												
		- Division 00 - Procurement and Contracting Requirements (Complete)	y			y				y				
		- Division 01 - General Requirements (Complete)	y			y				y				
		- 144500 - Vehicle Lifts (Complete)	y			y				y				
<b>C. Inclusions</b>														
<b>STANDARD REQUIREMENTS</b>														
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			y				y				
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y				y				
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			y				y				
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			n				y				
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			n				y				



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		n				y			
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		y				y			
	8	All work performed shall be per governing codes	y		y				y			
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		n				y			
	10	Include field measurement as required prior to fabrications	y		y				y			
		<b>SPECIFIC SCOPE ITEMS</b>										
	11	Provide turn key install of vehicle lifts with controls and accessories as indicated on contract documents, including vertical rise lifts and mobile column lifts.	y		y				y			
	13	Provide platform lighting system for each type of lift as indicated in contract documents.	y		y				y			
	14	Provide lifts by accepted manufacturers:	y		y	Steril-Koni			y	Rotary		
		Mohawk Lifts										
		Rotary										
		Steril-Koni										
	15	Provide installation of lifts to comply with the applicable requirements of ANSI/ALI ALIS for operation and maintenance of lift equipment.	y		y				y			
	16	Provide maintenance, training and warranties as indicated in contract documents.	y		y				y			
	17	Coordinate vehicle lift pit requirements with concrete contractor	y		y				y			
	18	Coordinate power requirements with electrical contractor	y		y				y			
	19	Per RFI #50 and #134 provide all vehicle lifts as vertical rise lifts	y		y				y			
	20	Confirm acceptance of ART Covid Policy dated 8.27.21	y		y	via email			y	via email		
	21	Provide connection of compressed air to vehicle lifts by vehicle service equipment contractor	y		n		\$25,000	Turner	y			
		<b>D. Exclusions</b>										
	1	Provide Material handling lift by Shop Equipment Contractor	n		n				n			
	2	Provide power to controls location for vehicle lifts, coordinate location of power with vehicle lift contractor by electrical contractor	n		n				n			
		<b>E. Special Trade Requirements</b>										
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers	#	___%	#	0%			#	0%		
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y				y			
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		n				n	N/A		
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		n				y			
	b	Office Policy [ Or Project Specific)	y		n				n	N/A		
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		n				y			
		<b>F. Schedule</b>										
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.										
	1	Review and comply with Turner Schedule (AP-6)	y		y				y			
	2	Duration for submittals and shop drawings, in working days	?		?	30 days			?	10 days		
	3	Duration for fabrication and delivery, in working days	?		?	60-210 days			?	100 days		
	4	Installation duration, in working days	?		?	10 days			?	15 days		
		<b>G. Alternates</b>										
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein.										
	1	100% Payment & Performance Bonds on Turner Forms	y		n				n			
	2	Provide add alternate for onsite WC and GL insurance	y		n				n			
		<b>H. Unit Prices</b>										
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.										
	1											
	2											



**21 Fire Suppression**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP 1 Date **01/20/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Guillermo Leon - 202-309-3473

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

American Automatic Sprinkler	AAS	Reliance Fire Protection	RFP	SA Comunale	SAC	FSLA	FSLA
Pat Slater 703-645-2046 <a href="mailto:pslater@aasc-fp.com">pslater@aasc-fp.com</a>		Steve Welsh 443.989.3000 <a href="mailto:Steve.Welsh@rpf-inc.us">Steve.Welsh@rpf-inc.us</a>		Brian Fique 410.768.1931 <a href="mailto:brian.fique@comunale.com">brian.fique@comunale.com</a>		Vince Edwards 571-259-3047 <a href="mailto:vpedwards@flsamerica.com">vpedwards@flsamerica.com</a>	
01/26/22		01/26/22		01/26/22		01/30/22	
<b>FULLY SCOPE</b>		<b>FULLY SCOPE</b>		<b>FULLY SCOPE</b>		<b>FULLY SCOPE</b>	
\$ 414,000		\$ 316,500		\$ 452,000		\$ 525,000	
\$ - 0.0%		\$ 17,500 5.5%		\$ 31,300 6.9%		\$ (2,500) -0.5%	
<b>\$ 414,000 24%</b>		<b>\$ 334,000</b>		<b>\$ 483,300 45%</b>		<b>\$ 522,500 56%</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
		<b>Turner Construction Company's Environmental Health and Safety Program</b>																			
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y												
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y												
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y												
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	n		n				n												
	5	Breakout Cost for Full Time Safety Manager	n	\$ _____	n				n												
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y												
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y												
		<b>Bid Acknowledgements</b>																			
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y												
		<b>Contract Attachments</b>																			
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y												
	3	AP-2 Documents List dated 10/22/2021	y		y				y												
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y												
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y												
	6	AP-5 BIM Requirements	y		y				y												
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y												
	8	AP-7 Shop Equipment Coordination Matrix	y		y				y												
	9	AP-8 SB Equipment Coordination Matrix for ERU and RTU furnished by Others	y		y				y												
	10	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Include all other applicable insurances.	y		y				y												
	11	Include all Applicable Taxes	y		y				y												
	12	Breakout of Sales Tax	\$ _____		n				n					n				n			
	13	Bid valid for 90 days	y		y				y												
	14	Retainage: 5%	y		y				y												
	15	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y												
	16	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y												
	17	ART Facility - Covid Policy - Vaccination or Weekly Testing	y		n		\$2,000	Turner	n		[\$0]	RFP	n		\$2,000	Turner	n		\$2,000	Turner	
		<b>Key Quantities and Breakouts (Populate Below)</b>																			
	1	Total Manhours	#		#		[1,500]	AAS	#		[1,170]	RFP									
	2	Peak # of Workers anticipated	#		#		[10]	AAS	#		[3]	RFP									
	3	Provide breakout of escalation costs	#		#																
	4	Provide total amount of sprinkler heads at Operations and Maintenance Building	#		#		[450]	AAS	#		[450]	RFP									
	5	Pipe and Sprinklers lead time	#		#		[2-4 weeks]	AAS	#		[2 weeks]	RFP									
	6	<b>Breakout Costs</b>																			
	7	Operation and Maintenance Building Fire Protection System	\$	\$ _____	\$		[\$320,000]	AAS	\$		[\$261,700]	RFP	\$		[\$342,000]	SAC	\$		[\$365,000]	FSLA	
	8	Parking Garage Fire Protection System	\$	\$ _____	\$		[\$94,000]	AAS	\$		[\$54,800]	RFP	\$		[\$110,000]	SAC	\$		[\$130,000]	FSLA	
	9	Seismic Bracing for Operation and Maintenance Building	\$	\$ _____	\$		[\$25,000]	AAS	\$		[\$26,300]	RFP	\$		[\$26,300]	RFP	\$		[\$20,000]	FSLA	
	10	Seismic Bracing for Garage	\$	\$ _____	\$		[\$6,000]	AAS	\$		[\$4,800]	RFP	\$		[\$4,800]	RFP	\$		[\$10,000]	FSLA	
		<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																			
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?																		
	2	Where do the materials come from?	?																		
	3	What is lead time for materials?	?																		
	4	Identify Major Subcontractors	?																		
	5	Provide ___ % UBE (Underutilized Business Enterprise) participation. There is 30% BU UBE Participation Goal	?																		
		<b>Prequalification</b>																			
	1	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		y		[0.70]	AAS	y		[0.62]	RFP									
	2	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?		y		[1.5%]	AAS	y		[0.5%]	RFP									
	3	Include Payment and Performance Bond	n		n																
		<b>Price</b>																			
		Price:																			
		Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this propos																			
		Company:																			
		Individual:																			
		Title:																			
		Signature:																			
		Date:																			
		<b>AP-1 Statement of Work</b>																			
		<b>Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF</b>																			
							0			0				0				0			



21 Fire Suppression		y/n/Sub																	
<b>A. General</b>																			
The Work as defined in Article 1, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y		y		y													
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 21 Fire Suppression scope as defined in this Statement of Work and as shown or described in the Contract Documents.				y		y													
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.		y		y		y													
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y		y		y													
<b>B. Documents</b>																			
The Work shall consist of 21 Fire Suppression Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																			
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y		y													
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y		y													
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y		y													
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y		y													
5	RFI Log dated 2022.01.18	y		y		y													
6	RFI Log dated 2022.01.22	y		y		y													
7	RFI Log dated 2022.01.27	y		y		y													
8	RFI Log dated 2022.01.31	y		y		y													
9	RFI Log dated 2022.02.11	y		y		y													
10	RFI Log dated 2022.02.15	y		y		y													
11	Specifications	y		y		y													
-	Division 00 - Procurement and Contracting Requirements (Complete)	y		y		y													
-	Division 01 - General Requirements (Complete)	y		y		y													
-	Division 07 - Thermal and Moisture Protection (As Related)	y		y		y													
-	Division 08 31 00 - Access Panels (As Related)	y		y		y													
-	Division 21 - Fire Protection (Complete)	y		y		y													
-	Division 22 - Plumbing (As Related)	y		y		y													
-	Division 26 - Electrical (As Related)	y		y		y													
<b>C. Inclusions</b>																			
<b>STANDARD REQUIREMENTS</b>																			
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y		y													
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y		y													
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y		y													
4	Include all trade relative work in the Division One Specification.	y		y		y													
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y		y													
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y		y													
9	All work performed shall be per governing codes	y		y		y													
10	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y		y													
11	Include field measurement as required prior to fabrications	y		y		y													
<b>SPECIFIC SCOPE ITEMS</b>																			
12	Provide a complete fire suppression sprinkler system in accordance with the Contract Documents for a fully functioning and code compliant system. Work to start after the Fire Protection Backflow Preventer. Provide a wet sprinkler system in the Maintenance Building and manual dry standpipe system at the Garage Building	y		n	BFP included	(\$4,500)	AAS	n	Roof Zone	\$15,000	Turner	n	BFP included	(\$4,500)	AAS	n	BFP included	(\$4,500)	AAS
13	Coordinate fire protection systems with work of all other trades prior to any fabrication or installation. Provide all fittings, offsets, transitions, and drains as required for a complete approved operating installation. Coordinate locations of all sprinklers with other trades. Coordinate all piping and sprinkler heads with shop equipment, specifically in the maintenance bays. Pipe should be routed to avoid equipment, equipment access, ductwork and lighting.	y		y				y											
14	Provide BIM Coordinated shop drawings. Reference AP-5 BIM Implementation Plan	y		y				y											
15	Provide Fire Marshall and AHJ coordination as needed including all permits and inspections	y		y				y											
16	Provide P.E. seal and stamped coordinated shop drawings by engineer registered in the jurisdiction. Shop drawings shall include hydraulic calculations where applicable, and which have been approved by the Authority Having Jurisdiction. Note that no work shall be installed until coordination drawings are approved by the Engineer and AHJ.	y		y				y											
17	Provide all required test, test reports and certificates, as well as welder's qualification certificates. Prepare fire suppression testing plan, including but not limited to testing methods, personnel, duration, planned impairments and required coordination	y		y				y											
18	Coordinate this scope of work with Electrical Subcontractor	y		y				y											
19	Coordinate install of drains for the work of this agreement with the Plumbing Subcontractor.	y		y				y											
20	Coordinate install of sleeves for the work of this agreement with Drywall, Concrete, Masonry, Steel, and other subcontractors	y		y				y											
21	Furnish access panels as required, for installation by others. Access panels fire rating to match fire rating of adjacent surfaces	y		y				y											
22	Coordinate heads above and below equipment and systems as required. Where necessary, sprinkler contractor shall provide additional sprinklers to assure required discharge patterns around obstructions and different ceiling elevations to yield a proper density	y		y				y											
23	Provide cutting, core drilling, and GPR as required. Provide all patching around all penetrations through slabs and/or walls as a result of core drilling and/or cutting of slabs and walls related to this work. This work is to be in addition to the required approved fire stopping system	y		y				y											
24	Provide all exterior wall penetrations for exterior wall for sprinkler drain down points as required. Core and sealing of openings for sprinkler piping are by this subcontractor	y		y				y											
25	Provide all penetration firestopping as required for your scope of work	y		y				y											





### 22/23 Plumbing and HVAC

Project: Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
 Job #: 20039  
 A/E: Stantec Architecture Inc.  
 Bid Date: 1/27/2022 @ NOON  
 AP1 Date: 02/23/22  
 Est: Scott Stevenson  
 Pro: Johnnel Lanham  
 Ops: Derek Brown  
 Estimator: Guillermo Leon - 202-3093473

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Warner Mechanical	WM	Anderson Mechanical	AM	ProAir	PA	Doyle Systems	DS
David Dolbow 301-662-5387 ddolbow@warner-mechanical.com		Gary Uppal 517-3490314 guppall@amsihvac.com		Jim Vouzikas 301-837-0135 jimv@proair-inc.com		Johnny Birch 919-308-6337 jbirch@doylesystems.net	
02/02/22		09/23/19		01/28/22		02/02/22	
FULLY SCOPED		NO		FULLY SCOPED		NO	
\$ 4,389,490		\$ 1		\$ 5,500,000		\$ 981,784	
\$ 160,000 3.6%		\$ 174,000 #####		\$ 234,000 4.3%		\$ 120,000 12.2%	
\$ 4,549,490		Incomplete		\$ 5,734,000 26%		Incomplete	
		HVAC Only				Plumbing Only	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
		Turner Construction Company's Environmental Health and Safety Program																			
	1	Turner Construction Company's Environmental Health and Safety Program	y		y																
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y																
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y																
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y																
	5	Breakout Cost for Full Time Safety Manager	\$	\$																	
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y																
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y																
		<b>Bid Acknowledgements</b>																			
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y																
		<b>Contract Attachments</b>																			
	2	AP-1 Statement of Work dated 1/12/2022	y		y																
	3	AP-2 Documents List dated 10/22/2021	y		y																
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y																
	5	AP-4 Logistics Plan dated 12/22/2021	y		y																
	6	AP-5 BIM Requirements	y		y																
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y																
	8	AP-7 Shop Equipment Coordination Matrix	y		y																
	9	AP-8 SB Equipment Coordination Matrix for ERU and RTU furnished by Others	y		y																
	10	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Include all other applicable insurances.	y		y																
	11	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y																
	12	Breakout of Sales Tax	\$	\$	n	OMA+Garage	[\$57,950+\$9,866]	WM													
	13	Bid valid for 90 days	y		y																
	14	Retainage: 5%	y		y																
	15	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y																
	16	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y																
	17	ART Facility - Covid Policy - Vaccination or Weekly Testing	y		y		[\$0]	WM	n				n					\$5,000		Turner	
		<b>Key Quantities and Breakouts (Populate Below)</b>																			
	1	Total Manhours	#																		
	2	Peak # of Workers anticipated	#																		
	3	Provide breakout of escalation costs	#																		
	4	Provide total pounds of ductwork	#	Lbs																	
	5	Provide total hydronic piping linear footage	#	lf																	
	6	Spoils to be removed from site	#	yd	y		[185 cy]	WM													
	7	Equipment Long Lead Times	#																		
	8	Material Long Lead Times	#																		
		<b>Breakout Costs</b>																			
	10	Total Cost for Operation and Maintenance Building	\$	\$			[\$4,053,000]	WM				\$	[\$5,100,000]	PA							
	10.1	HVAC Costs	\$	\$			[\$2,931,600]	WM				\$	[\$3,325,000]	PA							
	10.2	Plumbing Costs	\$	\$			[\$1,122,000]	WM				\$	[\$1,772,000]	PA	\$				[\$877,168]	DS	
	10.3	Plumbing and HVAC Seismic Bracing for Operation and Maintenance Building	\$	\$			[\$54,000]	WM													
	10.4	In-Slab Radiant Heating	\$	\$			[\$74,900]	WM													
	11	Total Cost for Parking Garage	\$	\$			[\$313,000]	WM				\$	[\$400,000]	PA							
	11.1	HVAC Costs	\$	\$			[\$80,600]	WM				\$	[\$37,000]	PA							
	11.2	Plumbing Costs	\$	\$			[\$232,400]	WM				\$	[\$363,000]	PA	\$					[\$104,616]	DS
	11.3	Plumbing and HVAC Seismic Bracing for Garage	\$	\$			[\$4,000]	WM													
	12	Total Mechanical Equipment Costs - Excluding ERU-1 and RTU-1	\$	\$																	
		<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																			
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?																		
	2	Where do the materials come from?	?																		
	3	What is lead time for materials?	?																		
	4	Identify Major Subcontractors	?																		
	5	Provide ___ % UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																		



Prequalification											
1	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		y		[0.75]	WM				
2	Provide Payment and Performance Bond Rate [Provide Rate: %]	?		y		[1%]	WM				
3	Include Payment and Performance Bond	n	%	n							
Price											
Price:											
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.											
Company:											
Individual:											
Title:											
Signature:											
Date:											
AP-1 Statement of Work				Warner Mechanical B1		Anderson Mechanical B1		ProAir B1		Doyle Systems B1	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		0		0		0	
22/23 Plumbing and HVAC				-		-		-		-	
02/23/22				y/n		Sub					
<b>A. General</b>											
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y							y
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 22/23 Plumbing and HVAC scope as defined in this Statement of Work and as shown or described in the Contract Documents	y		y							y
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		y							y
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y							y
<b>B. Documents</b>											
	The Work shall consist of 22/23 Plumbing and HVAC Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:										
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y							y
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y							y
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y							y
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y							y
5	RFI Log dated 2022.01.18	y		y							y
6	RFI Log dated 2022.01.22	y		y							y
7	RFI Log dated 2022.01.27	y		y							y
8	RFI Log dated 2022.01.31	y		n							y
9	RFI Log dated 2022.02.01	y		n							y
10	RFI Log dated 2022.02.15	y		n							y
11	Specifications	y		y							y
	- Division 00 - Procurement and Contracting Requirements (Complete)	y		y							y
	- Division 01 - General Requirements (Complete)	y		y							y
	- Division 07 - Thermal and Moisture Protection (As Related)	y		y							y
	- Division 08 - Access Panels (As Related)	y		y							y
	- Division 21 - Fire Protection (As Related)	y		y							y
	- Division 22 - Plumbing (Complete)	y		y							y
	- Division 23 - HVAC (Complete)	y		y							y
	- Division 26 - Electrical (As Related)	y		y							y
	- Division 28 - Fire Alarm (As Related)	y		y							y
<b>C. Inclusions</b>											
<b>STANDARD REQUIREMENTS</b>											
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y							y
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y							y
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y							y
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y							y
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y							y
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y							y
7	All work performed shall be per governing codes	y		y							y
8	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y							y
9	Include field measurement as required prior to fabrications	y		y							y
<b>SPECIFIC SCOPE ITEMS</b>											
10	Provide complete Mechanical (HVAC and Plumbing) systems per Contract Documents.	y		y							y
11	Provide warranty on Mechanical (HVAC and Plumbing) systems as required by the Contract Documents	y		y							y







## 23/26 MEP Equipment

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **02/03/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Guillermo Leon/Shilan Mehtsun

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

<b>Source Blue</b>	SB
Simona Rodriguez (703)-675-2473  <a href="mailto:srodriguez@sourceblue.com">srodriguez@sourceblue.com</a>	
02/03/22	
<b>FULLY SCOPED</b>	
\$ 1,557,520	
\$ 50,000 3.2%	
<b>\$ 1,607,520</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>								
	1	Turner Construction Company's Environmental Health and Safety Program	y		y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	n		n			
	5	Breakout Cost for Full Time Safety Manager	n		n			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y			
<b>Bid Acknowledgements</b>								
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y			
<b>Contract Attachments</b>								
	2	AP-1 Statement of Work dated 1/12/2022	y		y			
	3	AP-2 Documents List dated 10/22/2021	y		y			
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y			
	5	AP-4 Logistics Plan dated 12/22/2021	y		y			
	6	AP-5 BIM Requirements	n		n			
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y			
	8	AP-7 Shop Equipment Coordination Matrix	n		n			
	9	AP-8 SB Equipment Coordination Matrix	y		y			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y			
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y			
	11	Bid valid for 90 days	y		y			
	12	Retainage: 5%	y		y			



13	Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y			y		
14	LEED: LEED Silver; Project is striving for minimal environmental impact	y			y		
<b>Key Quantities and Breakouts (Populate Below)</b>							
1	Total Electrical Equipment Package Cost	\$	\$ _____		y		[ <b>\$866,466</b> ] SB
	Total Mechanical Equipment Package Cost	\$	\$ _____		y		[ <b>\$691,053</b> ] SB
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>							
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?					
2	Where do the materials come from?	?					
3	What is lead time for materials?	?					
4	Identify Major Subcontractors	?					
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?					
<b>Prequalification</b>							
1	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?					
2	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____				
3	Include Payment and Performance Bond	n	_____%				
<b>Price</b>							
Price:							
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.							
Company:							
Individual:							
Title:							
Signature:							
Date:							
<b>AP-1 Statement of Work</b>						<b>Source Blue</b>	
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF						B1	
23/26 MEP Equipment						0	
02/03/22						-	
						y/n Sub	
<b>A. General</b>							
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y		
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 23/26 MEP Equipment scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y		



	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y	
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y	
<b>B. Documents</b>						
	The Work shall consist of 23/26 MEP Equipment Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:					
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y	
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y	
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y	
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y	
5	RFI Log dated 2022.01.18	y			y	
6	RFI Log dated 2022.01.22	y			y	
7	RFI Log dated 2022.01.27	y			y	
8	RFI Log dated 2022.01.31	y			y	
9	RFI Log dated 2022.02.11	y			y	
10	Specifications	y			y	
-	Division 00 - Procurement and Contracting Requirements (Complete)	y			y	
-	Division 01 - General Requirements (Complete)	y			y	
-	Division 07 - Thermal and Moisture Protection (As Related)	y			y	
-	Division 08 - Access Panels (As Related)	y			y	
-	Division 21 - Fire Protection (As Related)	y			y	
-	Division 22 - Plumbing (As Related)	y			y	
-	Division 23 - HVAC (As Related), 23 74 00 - ERU (Complete), 23 74 13 RTU (Complete)	y			y	
-	Division 26 - Electrical (As Related), 26 32 13 Generators (Complete), 26 36 00 Transfer Switches (Complete)	y			y	
-	Division 28 - Fire Alarm (As Related)	y			y	
<b>C. Inclusions</b>						
1	This subcontractor agrees to AP-8 Source Blue Coordination Matrices. Provide all equipment and parts indicated in this document. Coordinate all work with the respective subcontractor	y			y	
2	Provide full warranty for equipment furnished under this scope, as required by the Contract Documents.	y			y	
3	Provide equipment submittals as required by the Contract Documents.	y			y	
4	Participate in kick-off meetings, coordination meetings and progress meetings as needed.	y			y	
5	Coordinate the delivery of the equipment furnished under this scope of work.	y			y	
6	Provide technical support, startup and assist in the installation of equipment furnished under this scope of work.	y			y	
7	Assist in the commissioning procedure for approval	y			y	



8	Provide startup services for all the equipment included in this scope of work	y		y	
9	Furnish pre-start up checklists to the installing contractors. Include assistance as required.	y		y	
10	Provide closeout documents, O&M manuals, equipment demonstration and training as required by contract documents.	y		y	
11	Provide spare parts as indicated in drawings	y		y	
12	Provide production updates, production tracking and delivery tracking for the equipment provided in this scope. Frequency to be determined by Turner Construction field staff	y		y	
13	Coordinate with electrical and mechanical subcontractors all aspects of engineering, installation and startup of the equipment	y		y	
<b>SPECIFIC SCOPE ITEMS:</b>					
<b>Electrical Equipment:</b>					
14	Furnish <b>Generators, ATS and Generator Switchboard</b> as required by the Contract Documents. Include all required accessories indicated in documents	y		y	
15	Coordinate and assist in interfacing power monitoring with building controls.	y		y	
16	Furnish Generator Remote start/stop as required by the Contract Documents, to be installed by the Electrical Contractor.	y		y	
17	Furnish Generator Remote annunciator as required by the Contract Documents, to be installed by the Electrical Contractor.	y		y	
18	Furnish Generator Remote monitoring equipment as required by the Contract Documents, to be installed by the Electrical Contractor.	y		y	
19	Provide all required Temporary Load Bank, cables and meters for testing in accordance with the Contract Documents. Provide full cable length from the generator (s) location to the location of the load banks. Routing of cables and location of load bank to be coordinated with Turner	y		y	
20	Coordinate with installing contractor the seismic anchorage requirements	y		y	
<b>Mechanical Items</b>					
21	Furnish <b>VAV Rooftop Unit with Energy Recovery Wheel</b> as shown in drawings	y		y	
22	Furnish <b>Energy Recovery Unit with Flat Plate Heat Exchanger</b> as shown in drawings	y		y	
23	Coordinate and assist in interfacing BMS/BAS with building controls for the equipment provided under this scope	y		y	
24	Provide all accessories and internal control systems for the equipment provided under this scope	y		y	
25	Provide motor starters and VFDs integral to the equipment indicated in this scope of work	y		y	
26	Provide initial set of filters for the equipment provided under this scope	y		y	
27	Coordinate with installing contractor the seismic anchorage requirements	y		y	
28	Provide RTU and ERU curbs sizes coordinated with roofing systems	y		y	
<b>D. Exclusions</b>					
1	Concrete Pads for equipment. - By Concrete Subcontractor	n		n	
2	Install electrical equipment - By the Electrical Subcontractor	n		n	
3	Install HVAC equipment - By the Mechanical Subcontractor	n		n	
4	Storage of the equipment. - By M&E Subcontractors	n		n	
5	Mechanical and Plumbing Piping - By the Mechanical Subcontractor	n		n	
6	Rigging of Equipment - By M&E Subcontractors	n		n	
<b>E. Special Trade Requirements</b>					
1	% <b>UBE - Underutilized Business Enterprise</b> (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%		



	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y				
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y				
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y				
	b	Office Policy [ Or Project Specific)	y				
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y				
	4	Includes escalation of labor and material costs	y				
<b>F. Schedule</b>							
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.					
	1	Review and comply with Turner Schedule (AP-6)	y				
	2	Duration for submittals and shop drawings, in working days	?				
	3	Duration for fabrication and delivery, in working days	?				
	4	Installation duration, in working days	?				
<b>Allowances</b>							
<b>A</b>	1	<b>Additional Escalation up to September 2022 Generators, ATS and Generator Switchboard Package Release</b>	y		n	\$50,000	Turner
					Yes/No -->	<b>Yes</b>	
<i>Subcontractor Bid</i>						\$	1,557,520
<i>Total Adjustments</i>						\$	50,000
<b>Leveled Total Bid</b>						\$	<b>1,607,520</b>
					<b>LOW BID</b>	<b>1</b>	



### 26 Electrical

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Shilan Mehtsun

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

IBABEL	IBA	ALTIMATE	A	FREESTATE	FS	JER	JER
Dave Hartman (443) 515-0403 (717) 845-1074 <a href="mailto:dhartman@ib-abel.com">dhartman@ib-abel.com</a>		David Ferraro (301) 607-8003 (111) 111-1111 <a href="mailto:DFerraro@altimateelectric.com">DFerraro@altimateelectric.com</a>		Tim Harlow (202) 438-6547 (703) 289-5780 <a href="mailto:tharlow@freestateelectric.com">tharlow@freestateelectric.com</a>		Danny Littleford (240) 375-8465 (301) 345-1300 <a href="mailto:danny@phalconusa.com">danny@phalconusa.com</a>	
09/23/19		01/24/22		01/27/22		09/23/19	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 4,919,955		\$ 4,692,800		\$ 5,348,580		\$ 6,893,900	
\$ 89,177 1.8%		\$ 319,760 6.8%		\$ 31,600 0.6%		\$ 30,000 0.4%	
\$ 5,009,132		\$ 5,012,560 0%		\$ 5,380,180 7%		\$ 6,923,900 38%	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
1		Turner Construction Company's Environmental Health and Safety Program	y		y				y				y				y			
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y				y			
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y				y			
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n	N/A			n	*based on EMR safety will be required	\$100,000	Turner	n	N/A			y			
5		Breakout Cost for Full Time Safety Manager	\$		\$	does not foresee >25ppl	[\$0]	IBA	\$	does not foresee >25ppl	[\$0]	A	\$	N/A						
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y	includes lifts + baker scaffolding			y				y				y			
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y				y			
8		<b>Include Arlington Contractor Covid Policy - 8.27.21</b>	y		y	verbal no cost crew will be vaccinated or tested wkly			n	potential added cost, confirming	\$1,760	Turner			\$1,600	Turner	y			
<b>Bid Acknowledgements</b>																				
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		n	published, IBA to review, revision included textura related costs	\$6,237	IBA									y			
<b>Contract Attachments</b>																				
2		AP-1 Statement of Work dated 1/12/2022	y		y								y				y			
3		AP-2 Documents List dated 10/22/2021	y		n	not published							y				y			
4		AP-3 Supplementary Provisions dated 1/14/2022	y		n	published, IBA to review							y				y			
5		AP-4 Logistics Plan dated 12/22/2021	y		y								y				y			
6		AP-5 BIM Requirements	y		y								y				y			
7		AP-6 Project Schedule dated 9/22/2021	y		y								y				y			
8		AP-7 Equipment Coordination Matrix dated 1/25/2022	y		y	verbal yes							y				y			
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances	y		y	only due to IBA delays							y				y			
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y								y				y			
11		Bid valid for 90 days	y		n	45 days			n	60 days			y				n	30 days		
12		Retainage: 5%	y		y				y				y							
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completior	y		y				y				y				n			
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																				
1		Total Manhours	#		#	14,000			#	19,779			#	20,000						
2		Peak # of Workers anticipated	#		#	15			#	11			#	10						
<b>GENERAL</b>																				
3		Breakout Cost for Escalation	\$		\$	\$14,000			#	revising to provide breakout			\$	\$60,000						
4		Breakout Cost for Temp Power & Lighting	\$		\$	\$206,937							\$	\$175,000						
5		Breakout Cost for Incoming Service	\$		\$								\$	\$150,000						
6		Breakout Cost for Lighting & Controls	\$		\$	\$1,709,837														
7		Breakout Cost for Site Lighting & Controls	\$		\$	w/above							\$	\$150,000						
8		Breakout Cost for Cut, Cap and Make Safe	\$		\$	\$19,973														
9		<b>Breakout Cost for PV Infrastructure</b>	\$		\$	\$46,628														
10		<b>Breakout Cost for EV Charging Stations</b>	\$		\$	\$37,097														
11		<b>Breakout Cost for AOMF</b>	\$		\$	\$4,373,176							\$	\$4,278,800						
12		<b>Breakout Cost for Parking Garage</b>	\$		\$	\$626,778							\$	\$1,069,780						
13		<b>Breakout Cost for Site</b>	\$		\$	\$429,341														
<b>OMA</b>																				
14		Breakout Cost for Electrical Equipment	\$		\$	\$480,470														



15	Breakout Cost for OFCI Electrical Equipment	\$	\$	\$342,239								
16	Breakout Cost for Electrical Distribution Feeders	\$	\$	\$255,706								
17	Breakout Cost for Lighting & Controls	\$	\$	\$1,407,130								
18	Breakout Cost for Branch Power	\$	\$	\$462,170								
19	Breakout Cost for Mechanical / Industrial Equipment Power	\$	\$	\$115,293								
20	Breakout Cost for Fire Alarm	\$	\$	\$229,631								
21	Breakout Cost for Telecom / Audio Visual	\$	\$	\$179,419								
22	Breakout Cost for Security	\$	\$	\$106,716								
<b>PARKING GARAGE</b>												
23	Breakout Cost for Electrical Equipment	\$	\$	\$30,871								
24	Breakout Cost for OFCI Electrical Equipment	\$	\$	\$8,017								
25	Breakout Cost for Electrical Distribution Feeders	\$	\$	\$22,806								
26	Breakout Cost for Lighting & Controls	\$	\$	\$302,707								
27	Breakout Cost for Branch Power	\$	\$	\$89,990								
28	Breakout Cost for Mechanical / Industrial Equipment Power	\$	\$	\$4,177								
29	Breakout Cost for Fire Alarm	\$	\$	\$16,505								
30	Breakout Cost for Telecom / Audio Visual	\$	\$	\$0								
31	Breakout Cost for Security	\$	\$	\$57,741								

<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>												
1	What are sources of Labor included (Company, Union hall, Subcontracted, 3rd Party Labor Provider)?	?	?	TBD		non-union		?	union			
2	Where do the materials come from?	?	?	TBD				?	local supply house			
3	What is lead time for materials?	?	?	12-18 wks				?	varies			
4	Identify Major Subcontractors	?	?	elevator, lighting, testing, fire alarm, low voltage - in house, Infinity	?	DAS, low voltage - IES		?	low voltage, excavation			
5	Provide % UBE (Underutilized Business Enterprise) participation. <b>30% BU UBE Participation Goal</b>	?	?	0%				?	TBD			

<b>Prequalification</b>												
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	y							y			
2	Turner Prequalification Number:	#							#	461		
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	y							y			
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	y							y			
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	#	#	0.633, IBA to confirm '21 stats	#	1.50, A to confirm latest stats		#	0.82			
6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	%	%	1.00%	%	1.50%		%	1.00%	%	0.80%	
7	Include Payment and Performance Bond	n	n		n			n		n		

<b>Price</b>												
Price:												
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal												
Company:												
Individual:												
Title:												
Signature:												
Date:												

<b>AP-1 Statement of Work</b>				<b>IB ABEL</b>	<b>B1</b>	<b>ALTIMATE</b>	<b>B1</b>	<b>FREESTATE</b>	<b>B1</b>	<b>JER</b>	<b>B1</b>
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		0		0		0	
26 Electrical				-		-		-		-	
01/12/22				y/n	Sub						

<b>A. General</b>												
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y							y			
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 26 Electrical scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		y				y			y	
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		n	as indicated per contract docs			y			y	
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y						y			y	



B. Documents														
	The Work shall consist of 26 Electrical Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:													
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y	y							y			y	
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y	y							y			y	
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y	y							y			y	
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y	y							y			y	
5	<b>RFI Log Round 1 Response dated 01/18/2022</b>	y	y											
6	<b>RFI Log Round 2 Response dated 01/24/2022</b>	y	y											
7	<b>RFI Log Round 3 Response dated 01/27/2022</b>	y	y											
8	Specifications	y	y				y			y			y	
	- Division 00 - Procurement and Contracting Requirements (Complete)	y	y				y			y			y	
	- Division 01 - General Requirements (Complete)	y	y				y			y			y	
	- Division 26 - Electrical (Complete)	y	y				y			y			y	
	- Division 28 - Electronic Safety & Security (Complete)	y	y				y			y			y	
C. Inclusions														
STANDARD REQUIREMENTS														
1	Includes hoisting/rigging/scaffolding required for your work.	y	y				y			y			y	
2	Includes daily cleanup to dumpster and daily trash recycling to recycling dumpsters.	y	y				y			y			y	
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others).	y	y				y			y			y	
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y	y				y			y			y	
5	Include all blocking, brackets, fixtures, shims, connections and items necessary for a complete system.	y	y			excludes AV blocking	y			y			y	
6	Include all cutting, coring, sleeving, and firestopping for penetrations relative to your work for a complete system	y	y				y			y			y	
7	Include verification and investigation of existing conditions. No additional compensation will be allowed for work that could be viewed in the field	y	y				y			y			y	
8	All work performed shall be per governing codes.	y	y			excludes surveying	y			y			y	
9	Include cost of all surveying and layout (baseline survey to be provided by Others).	y	y				y			y			y	
10	Include field measurement as required prior to fabrications.	y	y				y			y			y	
SPECIFIC SCOPE ITEMS														
11	Provide Electrical Work complete in accordance with the Contract Documents.	y	y				y			y			y	
12	Provide BIM coordination as indicated in AP-5. Reference 01 30 00.	y	y				y			y			n	
13	Provide all required permits, inspections, and certifications as required by the Contract Documents and applicable codes.	y	y				y			y			y	
14	Provide project management, coordination and safety to meet the project construction schedule for Electrical Installations. Participate in kick-off, design, coordination and progress meetings as needed. Include all submittals, coordination drawings, and as-builts as specified	y	y				y			y			y	
15	Provide full warranty on all Electrical Systems as shown in the Contract Documents.	y	y				y			y			y	
16	Perform all required testing and inspections for all Work relative to your trade and in accordance with the Contract Documents and Specifications.	y	y				y			y			y	
17	Provide closeout documents as required by the Contract Documents.	y	y				y			y			y	
18	Provide extra materials and spare parts as indicated in the Contract Specifications.	y	y				y			y			y	
19	Provide start-up service and commissioning in accordance with the Contract Documents. Include a Commissioning Representative with adequate knowledge and direct commissioning experience of Electrical Systems. Participate in commissioning assistance goals and task as required. Reference 01 91 13 General Commissioning Requirements.	y	y				y			y			y	
20	Provide temporary electrical service per the following: a. All temporary power for construction operations including but not limited to distribution equipment, wiring and outlets. b. All temporary OSHA required lighting for construction operations. Include lights at building interior, exterior and site as necessary. c. Include electrical connections for one site trailer, tower crane, material hoist, and small power tools. d. Include labor, material, installation, maintenance, repair and removal of this work as required during period of construction and upon project completion	y	y			excludes transformer and distribution connected to utility service by provider	y			y			y	
21	<b>Cut, cap and make safe underground and overhead electric and telecom services indicated to be demolished and/or abandoned in place, removal by Earthwork subcontractor. Reference C1.2 Demolition Plan and DU1.0 Dry Utility Plan. Include cut, cap and make safe for site light poles, power poles, underground and overhead wiring within the LOD. Coordinate cut, cap and make safe of utility work with Dominion.</b>	y	n			excludes removal of utility work and lighting, revision included add'l money for DU1.0	\$18,751	IBA	n	per scope review mtg - incomplete scope, revising to include complete scope	\$50,000	Turner	y	n
22	Provide penetrations as required by drawings. Include firestopping to maintain a continuous fully rated assembly as required by the Contract Documents.	y	y				y			y			y	
23	Provide sealant, caulking, putty pads and acoustical caulking as required by drawings and specs	y	y				y			y			y	
24	Furnish access panels. Access panel installation will be by others. Layout is by this subcontractor.	y	y			verbal yes	y			y			y	
25	Provide hangers and supports for all the electrical systems installed in this scope of work	y	y				y			y			y	
26	Provide sleeves, inserts, GPR and core drilling as required. This subcontractor is responsible to perform and verify all layout using established control lines and benchmarks prior to the start of work	y	y				y			y			y	
27	Provide vibration isolation and seismic-restraint requirements as indicated in the Contract Documents. Comply with delegated design requirements per 26 05 48 1.2 C.	y	y				y			y			n	
28	Provide identification, labeling, warning tape, instructional signage and equipment tags in accordance with the Contract Documents and Specifications.	y	y				y			y			y	
29	Provide all wiring devices, fuses, enclosed switches and circuit breakers as required by the Contract Documents including but not limited to device plates, receptacles, switches, and dimmers and cord reels.	y	y			excludes cord reels	y			y			y	
30	Install all VFDs, loose starters and/or disconnects as required, furnish by Mechanical subcontractor.	y	y			includes as indicated per electrical dwgs	y			y			y	
31	Provide electrical connections to Elevator, Mechanical, Plumbing and Fire Protection equipment as required by the Contract Documents.	y	y			includes as indicated	y			y			y	



32	Provide electrical connections to Industrial Equipment as indicated in the Contract Documents. Coordinate requirements with furnish subcontractor.	y	y	includes as indicated, assumes (2) heaters + (2) fans garage		n	per scope review mtg - incomplete scope, revising to include complete scope and review of AP7	\$60,000	Turner	y		y						
33	Provide electrical connections to Residential Appliances as indicated in the Contract Documents.	y	y			y				y		y						
34	Provide electrical connections to overhead doors, automatic doors, and electrically operated and controlled door hardware in accordance with the Contract Documents. All electrified hardware by DFH subcontractor. Coordinate line voltage requirements with DFH subcontractor and supplier.	y	n	includes 120V as indicated, revision included add'tl money for coordination w/ architecturals	\$12,101	IBA	y			y		y						
35	Provide raceways and boxes for electrical and telecom systems in accordance with the Contract Documents. Include conduit for elevators as required.	y	y			y				y		y						
36	Provide grounding and bonding of building structures, equipment, electrical and communications systems as indicated in the Contract Documents and Specifications. Coordinate grounding system with lightning protection system as required.	y	y			y				y		y						
37	Provide short circuit, coordination and arch flash analysis as indicated in the Contract Documents. Include documentation necessary to complete study. Reference 26 05 73.13 and 26 05 73.16	y	y			y				y		y						
38	Provide electrical distribution equipment including but not limited to switchboards, panelboards, transfer switches, and transformers as indicated in the Contract Documents.	y	y	includes metering - no spec, excl. branch monitor + transfer switches		y				y		y						
39	Provide installation of OFCI Generators, ATS's and Parralleling Switchgear for building and garage in accordance with the Contract Documents.	y	y			y				y		y						
40	It is the responsibility of this subcontractor to coordinate, review, receive OFCI Electrical Equipment on-site, inspect and provide verification that equipment is received in good condition with all associated components. Submit report and provide chain of custody documentation of OFCI Equipment during construction.	y	y	excludes warranty work due to faulty equip.		y				y		y						
41	Provide all required installation, hoisting and rigging for Electrical Equipment including OFCI Equipment to be installed by this subcontractor. Include equipment pad layout and coordination assistance as required	y	y			y				y		y						
42	Coordinate install of Electrical Systems including OFCI Equipment associated with this scope of work with other building components and work of other trades	y	y			y				y		y						
43	All equipment must remain clean throughout the duration of construction and commissioning phases, prior to start-up and upon final turnover to Owner. Remove dirt and debris including paint splatters and other spots regularly.	y	y			y				y		y						
44	Provide UL certified lightning protection system on all buildings structures and equipment exposed to lightning as required by the Contract Documents	y	y			y				y		y						
45	Provide lighting, lighting controls and lighting inverter for building and parking garage as required by the Contract Documents. Include support components, lamps, ballasts, drivers, relays, contactors, sensors, switches, exit signs and all associated conduit, wire and connections. Reference RFI Responses 1, 3 and 4.	y	y			y				y		y						
<b>Site</b>																		
46	Provide underground conduit, direct-buried duct runs, concrete-encased duct banks, duct accessories, utility vaults, manholes, handholes and pull boxes as indicated in the Contract Documents	y	y			y				y		y						
47	Provide primary power pathways only, secondary power pathways and conductors as indicated in the Contract Documents. Include primary and secondary telecom pathways and cabling as indicated in the Contract Documents.	y	y			n	add alternate for secondary conductors	\$35,000	A	y	includes secondary feeders only	y						
48	Provide infrastructure for future electric charging as indicated in the Contract Documents.	y	y	per electrical and garage site dwg		y				y		y						
49	Provide infrastrucute for future solar system as indicated in the Contract Documents.	y	y			y				y		y						
50	Provide trenching, excavation and backfill with suitable material as required for work relative to this scope. Include stockpile of spoils on-site, spoils removal by Earthwork subcontractor. Include concrete washout as required for work of this scope.	y	y	excludes rock + site restore		y				y		y						
51	Provide concrete encasement as required by the Contract Documents.	y	y			y				y		y						
52	Provide site lighting and exterior fixtures as indicated per the Contract Documents. Include associated electrical equipment, transformers, enclosures, baseplates and concrete pole bases as required. Reference RFI Responses 1, 3 and 4.	y	y			y				y		y						
<b>Low Voltage</b>																		
53	Provide commnication devices and patch panels as indicated in the Contract Documents. Reference E0-001 IT/AV/Security Scope Matrix and AOMF - Data-Security-FFE Scope Clarification for scope responsibility and manufacturer information.	y	n	see Division 27		n	see Division 27			n	see Division 27	n	not priced					
54	Provide structured cabling as indicated in the Contract Documents. Reference E0-001 IT/AV/Security Scope Matrix and AOMF - Data-Security-FFE Scope Clarification for scope responsibility and manufacturer information.	y	n	see Division 27		n	see Division 27			n	see Division 27	n	not priced					
55	Provide server and/or equipment racks as indicated in the Contract Documents. Reference E0-001 IT/AV/Security Scope Matrix and AOMF - Data-Security-FFE Scope Clarification for scope responsibility and manufacturer information.	y	n	see Division 27		n	see Division 27			n	see Division 27	n	not priced					
56	Provide complete emergency responder distributed antenna system as required.	y	y			y				y		y						
<b>Fire Alarm</b>																		
57	Provide complete Fire Alarm, Smoke and Fire Detection System as indicated in the Contract Documents and Specifications. Ensure full compliance with AHJ requiremens. Include all necessary integration and interface with other building systems for a fully functional operation	y	y			y				y		y						
58	Furnish all duct smoke detectors as shown in the Contract Documents. Install by Mechanical.	y	y	verbal yes		y				y		y						
59	Provide allowance for exterior facade lighting in accordance with the Contract Documents. Reference EA-111 Note 1 indicating \$125/LF for approximately 260LF. Provide Breakout Cost	y	y	included in base bid	[\$32,500]	IBA	n	add alternate for facade lighting	\$43,000	A	y	[\$32,500]	FS	[\$32,500]	JER			
60	Provide allowance for (7) car charging stations as indicated in the Contract Documents.	y	n	includes \$1500 per (10) stations \$15k, may need more \$		IBA	y	includes (7) stations, revising to provide breakout			y	includes \$3666 per (7) stations = \$26k						
61	Provide (6) months storage for OFCI Equipment.	y	n	revision included add'tl money for 5 months storage	\$22,037	IBA	n	revising to include in base bid, add for 6 months based on IBA unit price	\$30,000	IBA	y	add for 6 months based on IBA unit price	\$30,000	IBA	n	add for 6 months based on IBA unit price	\$30,000	IBA



D. Exclusions												
1	Demolition removal by Earthwork subcontractor.	n		n		n		n		n		n
2	Furnish of VFDs, loose starters and/or disconnects by Mechanical subcontractor.	n		n		n		n		n		n
3	Furnish of Generators, ATS's and Parralleling Switchgear by Owner.	n		n		n		n		n		n
4	Electrified hardware by DFH subcontractor.	n		n		n		n		n		n
5	Spoils removal by Earthwork subcontractor.	n		n		n		n		n		n
6	Install duct smoke detectors by Mechanical subcontractor.	n		n		n		n		n		n
7	Security equipment, card readers and cameras by Owner.	n		n		n		n		n		n
E. Special Trade Requirements												
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	%	revision included add'tl money to meet 15% participation	\$30,051	IBA				TBD		
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y		y		y		y		y
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y		y		y		y		n
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y		y		y		y		n
b	Office Policy [ Or Project Specific)	y		y		y		y		y		n
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		y		y		y		y		n
4	Includes escalation of labor and material costs	y		y	see above breakout			y	revising to provide breakout	y	see above breakout	
F. Schedule												
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.												
1	Review and comply with Turner Schedule (AP-6)	y		y				y				y
2	Duration for submittals and shop drawings, in working days	?		?	2-6wks			?		?	4-6wks	
3	Duration for fabrication and delivery, in working days	?		?	per schedule			?		?	8-26wks	
4	Installation duration, in working days	?		?	per schedule			?		?	per schedule	
G. Alternates												
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein												
1	Provide 100% Payment & Performance Bonds on Turner Forms	y			\$32,690	IBA		\$75,188	A	\$53,802	FS	\$55,391 JER
2	Provide Add Alternate for Onsite WC and GL Insurance	y								\$20,000	FS	\$75,373 JER
3	Provide Add Alternate for import of stone for backfill of underground work outside the building footprint.	y			\$78,466	IBA						
H. Unit Prices												
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price												
1	Provide monthly storage cost for OFCI Electrical Equipment	y							revising to provide			

### 31 Earthwork

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Strittmatter	s	Anderson Company	AC	Goldin & Stafford	GS	Laurita	L	Total Civil	TC
John Kurfees 703-335-2255 ext 116 703-929-1536 jkurfees@strittmattercompanies.com		Michael Talomie 703-39-4982 mtalomie@theanderc.com		Justin Fanning 202-882-2600 ext 103 email@email.com		Ott Meale 304-296-7531x 103 ott@laurita.com		Sid Rouholamin 301-459-7484 571-243-3081 srouholamin@tccc.biz	
01/31/22		01/31/22		01/27/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 1,064,000		\$ 1,124,300		\$ 1,069,000		\$ 2,051,377		\$ 1,951,648	
\$ 120,500 11.3%		\$ 170,400 15.2%		\$ 287,400 26.9%		\$ 263,400 12.8%		\$ 245,978 12.6%	
<b>\$ 1,184,500</b>		<b>\$ 1,294,700</b> 9%		<b>\$ 1,356,400</b> 15%		<b>\$ 2,314,777</b> 95%		<b>\$ 2,197,626</b> 86%	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
<b>Turner Construction Company's Environmental Health and Safety Program</b>																					
1		Turner Construction Company's Environmental Health and Safety Program	y		y				y				y				y				
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y				y				
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		n				y				y				y				
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				y				n				y				
5		Breakout Cost for Full Time Safety Manager	y		n		[15,800]		n				n				n				
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y				y				
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y				y				
<b>Bid Acknowledgements</b>																					
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y				y				n				
<b>Contract Attachments</b>																					
2		AP-1 Statement of Work dated 1/12/2022	y		y				n				y				y				
3		AP-2 Documents List dated 10/22/2021	y		y				n				y				y				
4		AP-3 Supplementary Provisions dated 1/14/2022	y		y				n				y				y				
5		AP-4 Logistics Plan dated 12/22/2021	y		y				n				y				y				
6		AP-5 BIM Requirements	y		y				n				y				y				
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				n				y				y				
8		AP-7 Equipment Coordination Matrix dated - TBD	y		y				n				y				n				
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				n				y				y				
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				n				y				y				
11		Bid valid for 90 days	y		y				n				y				y				
12		Retainage: 5%	y		y				n				y				y				
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				n				y				y				
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				n				y				y				
<b>Key Quantities and Breakouts (Populate Below)</b>																					
1		Total Manhours	#					[3800]													
2		Peak # of Workers anticipated	#					[6]													
3		Provide breakout of escalation costs	#																		
4		Site Demo (\$)	#				[115,000]														
5		Cut to Haul (cy)	#				[4,272CY]													[2,268cy]	
6		Cut to Fill (cy)	#				[3,552CY]														
7		Import to Fill (cy)	#				[16,268CY]													[15,923cy]	
8		Mobilizations (ea)	#				[3]														
9		Temporary Stone Install and removal #3 (cy)	#				[1201CY]													[1284]	
10		Spoils Haul Off (cy)	#				See Unit Price Below													Wet Utility Only [1872]	
11		Street Sweeping	#				included														
12		Traffic Control (\$)	#				Flagmen														
13		Biopond Excavation (cy)	#				[244CY]													[508]	
14		Breakout Price for E&S Controls	#				[67,000]														
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																					
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	CW			?	CW			?	CW							
2		Where do the materials come from?	?		?	Local															
3		What is lead time for materials?	?		?	2wks							?	[4-6 Months]							
4		Identify Major Subcontractors	?		?	None															
5		Provide ___ % UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?		?				?	5%											
<b>Prequalification</b>																					
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?																		
2		Turner Prequalification Number:	?																		
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																		
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																		
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																		
6		Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR	?	[.79]			?	[.58]			?	[.89]			?	[.71]		?	[1.26]
7		Include Payment and Performance Bond	n	%	n	[1%]			n	[1%]			n	[1.25%]			n	[1%]		n	[.9%]

10	Spoils Haul Off (cy)	#				See Unit Price Below			See Unit Price Below				See Unit Price Below				Wet Utility Only [1872]
11	Street Sweeping	#				included		Street Sweeping [8,000]			Street Sweeping [12,000]						
12	Traffic Control (\$)	#				Flagmen		[4200]			[21,000]						
Price																	
Price:																	
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																	
Company:																	
Individual:																	
Title:																	
Signature:																	
Date:																	
AP-1 Statement of Work						Strittmatter B1		Anderson Company B1			Goldin & Stafford B1			Laurita B1			Total Civil B1
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF						0		0			0			0			0
31 Earthwork						-		-			-			-			-
01/12/22			y/n	Sub													
<b>A. General</b>																	
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y				y					y						y
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 31 Earthwork scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y				y					y						y
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y				y					y						y
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y				y					y						y
<b>B. Documents</b>																	
	The Work shall consist of 31 Earthwork Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021	y				y					y						y
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y				y					y						y
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y				y					y						y
	4 Phase IV Submission for GMP Specifications dated 12/21/2021	y				y					y						y
	5 RFI Log dated - TBD	y				y					y						y
	6 Specifications	y				y					y						y
	ART Paving and Patching Plans Issued 1.26.22	y				y					y						y
	- Division 00 - Procurement and Contracting Requirements (Complete)	y				y					y						y
	- Division 01 - General Requirements (Complete)	y				y					y						y
	- 311000 - Site Clearing (Complete)	y				y					y						y
	- 312000 - Earthwork (Complete)	y				y					y						y
	- 312500 - Erosion Control (Complete)	y				y					y						y
	- Geotech Report (Complete)	y				y					y						y
<b>C. Inclusions</b>																	
<b>STANDARD REQUIREMENTS</b>																	
	1 Includes Hoisting/Rigging/Scaffolding Required for your Work	y				y					y						y
	2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y				y					y						y
	3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y				y					y						y
	4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y				y					y						y
	5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y				y					n						y
	6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y				y					n						y
	7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y				y					y						n
	8 All work performed shall be per governing codes	y				y					y						y
	9 Include cost of all surveying and layout (baseline survey to be provided by others)	y				y					n						y
	10 Include field measurement as required prior to fabrications	y				y					y						y
<b>SPECIFIC SCOPE ITEMS</b>																	
<b>Site Clearing and Site Demo:</b>																	
	12 Provide all Site Clearing including Clearing and Grubbing of the site. Removal of all trees shown to be removed	y				y					y						y
	13 Provide all Site Clearing including Clearing and Grubbing of the site. Removal of all trees shown to be removed	y				y					y						y
	14 Provide all Site Demo including Hardscape and Landscape, Fencing, Gates, Metal Ramps, Power Poles, and concrete retaining walls. (SCOPE CHANGED to have all Wet utility line removal/demo with Wet Utilities)	y				y					n	Wet Utility Removal is now with Wet Utilities (\$4,000)	AC	y	Only utilities within planned cuts	G&S included all site demo except for Wet Utility removal which is now with wet utilities	y
	15 Provide protections necessary to prevent damage to existing improvements indicated to remain in place.	y				y					y						y
	16 Restore existing improvements damaged by clearing operations to their original condition.	y				y					y						y
	17 Provide removal of trees and other vegetation as shown in the project documents as required to permit installation of the work.	y				y					y						y



10	Spoils Haul Off (cy)	#			See Unit Price Below			See Unit Price Below			See Unit Price Below							Wet Utility Only	[1872]		
11	Street Sweeping	#			included			Street Sweeping	[8,000]		Street Sweeping	[12,000]									
12	Traffic Control (\$)	#			Flagmen				[4200]			[21,000]									
b	Office Policy [ Or Project Specific]	y					y											y			
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y					y											y			
<b>F. Schedule</b>																					
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																					
1	Review and comply with Turner Schedule (AP-6)	y					y							y							
2	Duration for submittals and shop drawings, in working days	?					n														
3	Duration for fabrication and delivery, in working days	?					n														
4	Installation duration, in working days	?					n														
<b>Allowances</b>																					
A	1	Provide allowance for maintenance of E&S while not on-site	y							AC	y			GS	n						
A	2	Street Sweeping of other trades as directed by GC	y							AC	y			GS	n						
A	3	Wet Utility Spoils Removal	y			[2346CY] [Hopke Spoil Quantity]	H			[2346CY]	H/AC			[2346CY]	H/GS			H/L	[1872CY]		
	4	Mechanical Spoils Removal	y			[250CY]	T			[200CY]	T/AC			[200CY]	T/GS			T/L	[200CY]		
	5	Electrical Spoils Removal	y			[500CY]	T			[500CY]	T/AC			[500CY]	T/GS			T/L	[500CY]		
	6	Concrete Spoils	y			[965CY]	T			[965CY]	T/AC			[965CY]	T/GS			T/L	[965CY]		
	7	Aggregate Pier Spoils	y			[200CY]	T			[200CY]	T/AC			[200CY]	T/GS			T/L	[200CY]		
	8	Soldier Pile Wall Spoils	y			[400CY]	T			[400CY]	T/AC			[400CY]	T/GS			T/L	[400CY]		
	9	Gravity Retaining Wall Spoils	y			[79CY]	T			[79CY]	T/AC			[79CY]	T/GS			T/L	[79CY]		
<b>G. Alternates</b>																					
The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein.																					
	1	100% Payment & Performance Bonds on Turner Forms	y																		
	2	Provide add alternate for onsite WC and GL insurance	y			[3800]				[3,000]				[13,400]					n		
	3	Provide demolition of concrete building foundation as shown on demo plan	y			[15,000]								[7600]					n		
														[50,000]					n		
<b>H. Unit Prices</b>																					
The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.																					
	1	Haul off Spoils of other trades	y			[\$32/CY]				[\$26/CY]				[\$30/CY]				[\$35/CY]	L	[\$36/CY]	TC
	2																				
	3																				



438850

### 31 Special Foundations - Aggregate Piers

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ 6PM**  
 AP1 Date **1/12/2022, UPDATED 1/26/2022**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Greg Hammer, 484-684-4348, ghammer@tcco.com

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

CNC Foundations	CNC	Geostructures / GeoConstructors	Geo	Keller North America, Inc.	Kel
Michelle Kelling 973-524-0739 <a href="mailto:michellek@cncfoundations.com">michellek@cncfoundations.com</a>		Mathew Klucina 443-949-2260 <a href="mailto:mklucina@geostructures.com">mklucina@geostructures.com</a>		Caleb Shockley +1 240-701-7556 <a href="mailto:caleb.shockley@keller-na.com">caleb.shockley@keller-na.com</a>	
01/28/22		02/02/22		02/01/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 289,970		\$ 367,500		\$ 158,000	
\$ 35,000 12.1%		\$ 17,000 4.6%		\$ 60,000 38.0%	
\$ 324,970 49%		\$ 384,500 76%		\$ 218,000	
alt sys: VSC, no excav, no testing		Specified System: Geopiers		based on "Vibro-piers" by Keller	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				y				y			
	5	Breakout Cost for Full Time Safety Manager	y		n				n				n/a			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y			
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		n				y							
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y							
	3	AP-2 Documents List dated 10/22/2021	y		n				y							
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		n				y							
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y							
	6	AP-5 BIM Requirements	y		n				y							
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y							
	8	AP-7 Equipment Coordination Matrix dated 1/25/2022	y		n				y							
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				n	see deduct						
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y			
	11	Bid valid for 90 days	y		n				y				y			
	12	Retainage: 5%	y		y				y				y			
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		n				n				n			
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#							425 MH						
	2	Peak # of Workers anticipated	#							3 ppl						
	3	Provide breakout of escalation costs	#							30 days						
	4		#													
<b>Labor and Material Quantities</b>																
	6	Aggregate piers under Maintenance Building- count	#							275 to 325 piers						TBD
	6	Aggregate piers under Maintenance Building- depth	#							6 to 15ft						20ft
	7	Aggregate piers under Maintenance Building- diameter	#							24-30inches						30in
	6	Aggregate piers under Parking Garage- count	#							440 to 490 piers						TBD
	6	Aggregate piers under Parking Garage- depth	#							12-25ft						20ft
	7	Aggregate piers under Parking Garage- diameter	#							24-30inches						30in
	9	Spoils CY								minimal						
	10	<b>Schedule</b>														

AP-1

Sub: \_\_\_\_\_

P.A.: \_\_\_\_\_



11	Total duration in weeks - Maintenance Facility	#		2wks		7 days		2 wks
11	Total duration in weeks - Parking Garage	#		4 wks		15 days		2 wks
12								
13	<b>Cost Quantities</b>							
14	Cost for Design	\$				30k		
15	Cost for Materials	\$				300k		
16	Cost for Installation	\$						
17	Cost for Surveying	\$						
18	Number of mobilizations included	#		2 mobs. Add'l are \$45k				1 mob, 35k ea add
19	Cost for piers under tower crane	\$				7k		

Subcontractors (Provide Name, Scope UBE % and Price \$)								
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		union				Union
2	Where do the materials come from?	?		quarry				TBD
3	What is lead time for materials?	?		1-2 days				1 wk
4	Identify Major Subcontractors	?		N/A				none
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?		TBD		0%		0%

Prequalification								
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		Y				
2	Turner Prequalification Number:	?		#78004				
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?		y				
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?		y				
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		0.99EMR				
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____	2.05%		0.82 EMR%		
7	Include Payment and Performance Bond	n	_____ %	n		1.80%		

Price								
Price:								
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.								
Company:								
Individual:								
Title:								
Signature:								
Date:								

AP-1 Statement of Work	CNC Foundations B1	Geostructures / GeoConstruct B1	Keller North America, Inc. B1
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Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF	0	0	0
31 Special Foundations - Aggregate Piers	-	-	-

1/12/2022, UPDATED 1/26/2022

A. General								
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y		y		
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 31 Special Foundations - Aggregate Piers scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		n	excluding trade permit	y		
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		y		y	see proposal for exclusions	
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y		y		



B. Documents															
	The Work shall consist of 31 Special Foundations - Aggregate Piers Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:														
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y													
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y													
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y													
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y													
5	RFI Log dated 2022 Jan 07	y													
6	Specifications	y													
	- Division 00 - Procurement and Contracting Requirements (Complete)	y													
	- Division 01 - General Requirements (Complete)	y													
	- 316613 - Short Aggregate Pier Foundation Systems	y			n	See marked up spec									
7	Addendum 1 - Revised Civil Drawings	y													
C. Inclusions															
STANDARD REQUIREMENTS															
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			n	excludes hoisting							y		
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y											y		
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			n					y	trade only		n truck permits only		
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			n					y	req'd for work only		n/a		
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			y					n/a			n/a		
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			n					n/a			y		
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y			y					n			n		
8	All work performed shall be per governing codes	y			y					y			y		
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y			n	no surveying	see item 20			n	see item 20	turner	y		
10	Include field measurement as required prior to fabrications	y			n					n			n/a		
SPECIFIC SCOPE ITEMS															
11	This subcontractor shall provide a delegated design, including but not limited to engineering, testing and construction package to provide an aggregate piers system in accordance with the contract documents and design intent of the project.	y			y					y			n excluded testing as spec'd- 1 modulus test only	A&C	
12	Provide all labor, specialty geotechnical design, materials, equipment, apparatus, tools, transportation, protection and services necessary for, and reasonably incidental to, design and installation of the short aggregate pier foundation system. The aggregate piers shall be constructed by compacting aggregate in an excavation hole using special high-energy impact densification equipment. The aggregate piers shall be in a columnar-type configuration and shall be used to produce an intermediate foundation system for the support of the foundation loads as indicated on the drawings and as specified herein.	y			y					y			y		
13	Coordinate installation of piers with Support of Excavation/ sheeting and shoring subcontractor to preserve the integrity of the SOE system and ensure that installation does not reduce the capacity or otherwise jeopardize the soldier pile's lateral restraint.	y			y					n	need design		y		
14	Provide all excavation for your work. Provide stockpiling of your work on site for removal by the Earthwork Subcontractor. Provide expected cubic yards of spoils.	y			n	don't need to excav 60CY	driven, not pre-drilled			y	250 CY	driven, not pre-drilled	n	not providing excavation	driven, not pre-drilled
15	This subcontractor shall coordinate performance of deep foundation work with existing site conditions including but not limited to clearance restraints, existing construction, utilities, and adjacent trades.	y			y					y			n	Keller wants GC responsible. Keller will make good faith effort	
16	Provide test pits as required based on known information of onsite utilities.	y			n		\$5,000	Turner	n		\$5,000	Turner	n	\$5,000	Turner
17	This subcontractor will provide casual dewatering for this Subcontractor's work.	y			n		\$5,000	Turner	y	up to 2" pump			n	\$5,000	Turner
18	In addition to the production piers, provide one load test pier outside building footprint and provide load testing of the pier. (ref spec section 316613-1.4.B - ASTM D-1143 Pile Load Test Procedures). Provide all equipment and other requirements to perform test. Pier may be abandoned in place after testing.	y			y					y			y		
19	Provide written field observation reports by the Specialty Engineer, and a final written certification	y			n	no specialty Engineer				y			y		



20	Provide surveys and layout for pier work, from baseline controls provided by Turner. Note that this contradicts spec section item 31613-1.6.C. The center of each pier shall be within six inches of the plan locations indicated. NEW- COORDINATE	n		y	Per bid review call 2/5, have layout, \$10k credit to delete, Turner provides whiskers	(\$10,000)		n		will go in survey scope	T	y			
21	Provide any supplemental investigations requested by your Specialty Engineer (ref 316113-1.6.D)	y		n				n	per GSI specs			y			
22	Provide the bottom stabilization verification test on each bottom pier bulb, and as requested in accordance with spec section 336613-3.3.E. 2/24/2022- or equivalent test acceptable to speciality engineer and designer.	y		n	machine provides readings	provides equivalent testing for their system		n	will be equiv. test- BSV test is for geopiers, he is proposing impact piers	will be equiv. test- BSV test is for geopiers, he is proposing impact piers		n	cannot do with Keller equip	provides equivalent testing for their system	
23	Provide required testing for this system.	y		y	needs clarification			y				n	1 modulus test only	provides equivalent testing for their system	KEL
24	This subcontractor will provide flagging for the deliveries and equipment of this Subcontractor, coordinated with General Contractor.	y		n		\$5,000	Turner	n		\$5,000	Turner	n		\$5,000	Turner
25	This Subcontractor is responsible for the cleaning of their vehicles before leaving site, and for street cleaning required by any failure to clean their vehicles before leaving site.	y		y				y	wash rack by others			n		\$5,000	Turner
26	This Subcontractor is responsible for OSHA compliance regarding the covering of holes not actively being worked, through covers, barricades, monitors, or other compliant means and methods. Backfill holes as they are rammed. General Contractor will assist this Subcontractor with coordination with other trades to remain clear of the work area.	y		y				y				y			
27	This Subcontractor is responsible for working with the site erosion and sediment control, and is responsible to repair any E&S damaged by their work. Maintaining overall site E&S control is by General Contractor/ Earthwork Subcontractor.	y		y				y				n		\$5,000	Turner
28	Site will be left 12" high above subgrade. This subcontractor will remove / drill through this overburden as part of this scope of work.	y		y				y				n	looking for site 1 foot below FFE	?	Turner
29	Provide aggregate piers for the foundation for the tower crane at the Parking Garage. See the Logistics Plan and Crane plan for size and location of crane (SK-415-20)	y		y				n	see ADD	\$7,000	Geo	y			
<b>D. Exclusions</b>															
1	Removal of stockpiled spoils of this trade by the Earthwork Subcontractor	n		n				n				n			
3	Removal of encountered obstructing underground obstructions and buried structures	n		n				n				n			
5															
<b>E. Special Trade Requirements</b>															
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%	TBD											
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y											
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y											
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y											
b	Office Policy [ Or Project Specific)	y			project-specific										
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y			\$25,000										
4	Includes escalation of labor and material costs	y													
<b>F. Schedule</b>															
Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.															
1	Review and comply with Turner Schedule (AP-6)	y		y											
2	Duration for submittals and shop drawings, in working days	?			2-3 wks										
3	Duration for fabrication and delivery, in working days	?			2-3 wks										
4	Installation duration, in working days	?			30 days										
SCH	OMF piers - Sept 2022 to Oct 2022, 25 days														
SCH	PG piers - Mar 2023 to Apr 2023														
	ADDL MOBILIZATIONS			n	Addl Mob	\$30,000	GEO	n	Addl Mob	[\$30,000]	GEO	n	Addl Mob	\$35,000	Kel
<b>Allowances</b>															



A	1	Stone for site as needed	y			n				n				n			
<b>G. Alternates</b>																	
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.															
	1	100% Payment & Performance Bonds on Turner Forms	y				2.05%										
	2	Provide add alternate for onsite WC and GL insurance	y														
	3	Delete requirement for a full-time Quality Control representative (Ref spec section 316613-3.2.C (VERIFY WITH OPS)	y				n/a										
<b>H. Unit Prices</b>																	
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.															
	1																
	2																
	3																

### 32 Asphalt Paving

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Pro-Pave	PP	Total Civil	TC	Fort Myer	FM	Equus	E
Brad Notargiacomo 703-433-9500 <a href="mailto:rad.notargiacomo@propaveinc.com">rad.notargiacomo@propaveinc.com</a>		Sid Rouholamin 301-459-7484 ext.137 <a href="mailto:srouholamin@tcce.biz">srouholamin@tcce.biz</a>		David Chung 202-636-9535 <a href="mailto:dchung@fortmyer.com">dchung@fortmyer.com</a>		Megan Bailliff 888-692-1999X700 858-232-5224	
01/31/22		01/27/22		02/07/22		02/03/22	
NO		FULLY SCOPE		FULLY SCOPE		NO	
\$ 76,600		\$ 82,138		\$ 147,800		\$ 34,271	
\$ 34,371 44.9%		\$ 104,371 127.1%		\$ 34,371 23.3%		\$ 100 0.3%	
Incomplete		\$ 186,509 2%		\$ 182,171		Incomplete	
Wrong Detail Used		Need Confirmation on Detail and Quantities, Not Stand Alone		Need Scope Sheet Returned		Pavement Mark Only	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
	1	Turner Construction Company's Environmental Health and Safety Program	y						y											
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y						y											
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y						y											
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y						y											
	5	Breakout Cost for Full Time Safety Manager	y						n											
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y						y											
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y						y											
<b>Bid Acknowledgements</b>																				
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y						n											
<b>Contract Attachments</b>																				
	2	AP-1 Statement of Work dated 1/12/2022	y						y											
	3	AP-2 Documents List dated 10/22/2021	y						y											
	4	AP-3 Supplementary Provisions dated 1/14/2022	y						y											
	5	AP-4 Logistics Plan dated 12/22/2021	y						y											
	6	AP-5 BIM Requirements	y						y											
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y						y											
	8	AP-7 Equipment Coordination Matrix dated - TBD	y						n											
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y						y											
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y						y											
	11	Bid valid for 90 days	y						y											
	12	Retainage: 5%	y						y											
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y						y											
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y						y											
<b>Key Quantities and Breakouts (Populate Below)</b>																				
	1	Total Manhours	#								[136]									
	2	Peak # of Workers anticipated	#								[10]									
	3	Provide breakout of escalation costs	#								[4.3%/year]									
	4	Heavy Duty Paving (sy)	#				[667]				[553]					[5200SF]				
	5	Mill and Overlay (sy)	#				[827]				[454]					[835SY]				
	6	Stone Aggregate (Tons)	#																	
	7	Pavement Markings (LS)	#																	
	8																			
	9																			
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																				
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?																	
	2	Where do the materials come from?	?																	
	3	What is lead time for materials?	?																	
	4	Identify Major Subcontractors	?																	
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																	
<b>Prequalification</b>																				
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?																	
	2	Turner Prequalification Number:	?																	
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	

4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																		
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																		
6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?	EMR																	
7	Include Payment and Performance Bond	n	_____ %																	
Price																				
Price:																				
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																				
Company:																				
Individual:																				
Title:																				
Signature:																				
Date:																				
AP-1 Statement of Work				Pro-Pave	B1	Total Civil	B1	Fort Myer	B1	Equus	B1									
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		0		David Chung		0										
32 Asphalt Paving				-		-		202-636-9535		-										
01/12/22				y/n	Sub															
<b>A. General</b>																				
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y																		
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 32 Asphalt Paving scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y																		
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y																		
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y																		
<b>B. Documents</b>																				
	The Work shall consist of 32 Asphalt Paving Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:																			
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021	y																		
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y																		
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y																		
	4 Phase IV Submission for GMP Specifications dated 12/21/2021	y																		
	5 RFI Log dated - TBD	y																		
	6 Specifications	y																		
	ART Paving and Patching Plans Issued 1.26.22	y																		
	- Division 00 - Procurement and Contracting Requirements (Complete)	y																		
	- Division 01 - General Requirements (Complete)	y																		
	321216 - Bituminous Roadway Pavements (Complete)	y																		
	- 321700 - Pavement Marking, Signs, and Specialties (Complete)	y																		
	321713 - Parking Bumpers (Complete)																			
<b>C. Inclusions</b>																				
<b>STANDARD REQUIREMENTS</b>																				
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y																		
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y																		
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y																		
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y																		
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y																		
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y																		
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y								n										
8	All work performed shall be per governing codes	y								y										
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y								y										
10	Include field measurement as required prior to fabrications	y								y										
<b>SPECIFIC SCOPE ITEMS</b>																				
		y								y										

11	Provide all Heavy Duty Asphalt as shown in the project documents	y		y		y		y						
12	Provide all submittals per spec 321216-1.4	y		y		y		y						
13	Provide a Heavy Duty Asphalt Pavement Detail of (2" Surface Course SM-12.5, 8" Aggregate Base Course (VDOT 21B), and 6" BM-25 Asphalt Base Course)	y		y		y		y						
14	Provide all Interior Pavement Markings, signage and wheel stops as shown in the project documents.	y		n	\$16,471	E	n	\$16,471	E	n	\$16,471	E		
15	Provide all Exterior Pavement Markings, signage and wheel stops as shown in the project documents.	y		n	\$17,800	E	n	\$17,800	E	n	\$17,800	E		
16	Provide all Mill and Overlay per the project documents, see C 0.8 for Detail	y		y			y			y				
17	Provide edge of pavement repair	y		y			y			y				
18	Provide Full Depth Pavement Detail (2" SM-12.5, 8" VDOT-21B, 6" BM-25) at Utility Trenches per ART Paving and Patching Areas Issued by Turner on 1.26.22 is w/Asphalt	y		n			n	Incorrect Detail	\$35,000	Turner	y			
19	Provide Full Depth Pavement Detail (2" SM-12.5, 8" VDOT-21B, 6" BM-25) East and West of CIP Retaining Walls North of Box Culverts	y		n			n	Incorrect Detail	\$35,000	Turner	y			
20	Covid Vaccine or Testing per Arlington County Code	y		y			y				y			
21	Provide Fire Lane signage as shown in the plans (3ea.)	y		n	\$100		n		\$100		n		\$100	
<b>D. Exclusions</b>														
1	All sidewalks and concrete paving is w/Site Concrete	n		n			n							
2	All curb and gutter is w/Site Concrete	n		n			n							
3	Demo of existing utilities outside Shirlington road is w/Earthwork	n		n			n							
4	Demo of existing asphalt as shown is w/Earthwork	n		n			n							
5	Sawcutting of asphalt is w/Earthwork	n		n			n							
6	Remove and Replace Utilities at Shrlington Road is w/Wet Utilities	n		n			n							
7														
<b>E. Special Trade Requirements</b>														
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%											
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y					y							
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y					y							
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y					y							
b	Office Policy [ Or Project Specific)	y					y							
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y					y							
<b>F. Schedule</b>														
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.													
1	Review and comply with Turner Schedule (AP-6)	y												
2	Duration for submittals and shop drawings, in working days	?												
3	Duration for fabrication and delivery, in working days	?												
4	Installation duration, in working days	?												
<b>Allowances</b>														
A	1	Provide an allowance for patching of asphalt assume 50 SY see Pavement restoration detail on C0.6	y		n		n							
A	2													
A	3													
	4													
	5													
<b>G. Alternates</b>														
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project unless specifically noted herein.													
	1	100% Payment & Performance Bonds on Turner Forms	y											
	2	Provide add alternate for onsite WC and GL insurance	y											
	3	Provide Liquid Asphalt Index used for Pricing	y						\$541.67			\$563.33	FM	
<b>H. Unit Prices</b>														
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.													
	1													
	2													
	3													

### 32 Conc Paving

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

AMA	AMA	Pro-Pave	PP	Total Civil	TC	GT Contracting	GT	Fort Myer	FM
Justin Alexandre 202-439-1007 <a href="mailto:justin@amaconstruction.net">justin@amaconstruction.net</a>		Steve Fisher 703-433-9500 <a href="mailto:sfisher@propaveinc.com">sfisher@propaveinc.com</a>		Sid Rouholamin 301-459-7484 ext.137 <a href="mailto:srouholamin@tce.biz">srouholamin@tce.biz</a>		Brian Look 202-544-5155 <a href="mailto:blook@gt-contracting.com">blook@gt-contracting.com</a>		David Chung 202-636-9535	
01/28/22		01/26/22		01/27/22		01/27/22		02/07/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 1,436,000		\$ 1,328,500		\$ 1,645,250		\$ 1,651,000		\$ 1,336,973	
\$ (178,500) -12.4%		\$ 36,000 2.7%		\$ - 0.0%		\$ 5,000 0.3%		\$ 21,500 1.6%	
<b>\$ 1,257,500</b>		<b>\$ 1,364,500 9%</b>		<b>\$ 1,645,250 31%</b>		<b>\$ 1,656,000 32%</b>		<b>\$ 1,358,473 8%</b>	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	
<b>Turner Construction Company's Environmental Health and Safety Program</b>																									
1		Turner Construction Company's Environmental Health and Safety Program	y		y				y				y												
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y												
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y												
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y				y				y												
5		Breakout Cost for Full Time Safety Manager	y		y				n				y												
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y												
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y				y												
<b>Bid Acknowledgements</b>																									
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				n				y												
<b>Contract Attachments</b>																									
2		AP-1 Statement of Work dated 1/12/2022	y		y				y				y												
3		AP-2 Documents List dated 10/22/2021	y		y				y				y												
4		AP-3 Supplementary Provisions dated 1/14/2022	y		y				y				y												
5		AP-4 Logistics Plan dated 12/22/2021	y		y				y				y												
6		AP-5 BIM Requirements	y		y				y				y												
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y				y												
8		AP-7 Equipment Coordination Matrix dated - TBD	y		y				y				y												
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y				y												
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y				y												
11		Bid valid for 90 days	y		y				y				n	[30days]											
12		Retainage: 5%	y		y				y				y												
13		Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		n				y				y												
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y												
<b>Key Quantities and Breakouts (Populate Below)</b>																									
1		Total Manhours	#			[23500]								[6072]											
2		Peak # of Workers anticipated	#			[10]								[9]								[21]			
3		Provide breakout of escalation costs	#											[4.3%/year]											
4		Install Steel Bollards and Concrete Bases (ea)	#			[8]								[5]								[3]			
5		Concrete Curb and Gutter (lf)	#			[1170]				[1117lf]				[1217]								[1,055lf]		[1072]	
6		Heavy Duty Concrete Pavement (sy)	#			[81,455sf]				[79,692sf]				[8730]								[8,689]		[8737SY]	
7		Concrete Pavement - Vehicular (sf)	#			[1155]			n	[0]				[1240]								[155sy]		[147sy]	
8		Concrete Pavement - Pedestrian (sf)	#			[6000]				[5,973]				[5394]								[5900sf]		[675SY]	
9		Precast Jersey Barriers (lf)	#			[150lf]				[0]				[0]								[0]		[0]	
10		Concrete Pad at Dumpster Enclosure (sf)	#			[60]				[48]				[48]								[385sf]		[0]	
11		Concrete Channel Per C5.5 (sf)	#			[5850]				[5298]				[5298]								[0]		[0]	
12																									
13																									
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																									
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?			CW																			
2		Where do the materials come from?	?																						
3		What is lead time for materials?	?			1week																			
4		Identify Major Subcontractors	?																						
5		Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																						
<b>Prequalification</b>																									
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?																						
2		Turner Prequalification Number:	?																						
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																						
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																						
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																						
6		Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR		[.71]																		2.00%	
7		Include Payment and Performance Bond	n			[1.8%]																			
<b>Price</b>																									

Price:												
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.												
Company:												
Individual:												
Title:												
Signature:												
Date:												
AP-1 Statement of Work												
			AMA	B1	Pro-Pave	B1	Total Civil	B1	GT Contracting	B1	Fort Myer	B1
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF			0		0		0		0		David Chung	
32 Conc Paving			-		-		-		-		202-636-9535	
01/12/22			y/n	Sub								
<b>A. General</b>												
The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.			y		y		y		y			
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 32 Conc Paving scope as defined in this Statement of Work and as shown or described in the Contract Documents.			y		y		y		y			
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.			y		y		y		y			
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."			y		y		y		y			
<b>B. Documents</b>												
The Work shall consist of 32 Conc Paving Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:									y			
1 Phase IV Submission for GMP Drawings - dated 12/21/2021			y		y		y		y			
2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021			y		y		y		y			
3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021			y		y		y		y			
4 Phase IV Submission for GMP Specifications dated 12/21/2021			y		y		y		y			
5 RFI Log dated - TBD			y		y		y		y			
6 Specifications			y		y		y		y		y	
ART Paving and Patching Plans Issued 1.26.22			y		y		y		y		y	
- Division 00 - Procurement and Contracting Requirements (Complete)			y		y		y		y		y	
- Division 01 - General Requirements (Complete)			y		y		y		y		y	
321313 - Site Concrete (Complete)			y		y		y		y		y	
- 321413 - Precast Concrete Unit Paving (Complete)			y		y		y		y		y	
<b>C. Inclusions</b>												
<b>STANDARD REQUIREMENTS</b>												
1 Includes Hoisting/Rigging/Scaffolding Required for your Work			y		y		y		y			
2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters			y		y		y		y			
3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)			y		y		y		y			
4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.			y		y		y		y			
5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system			y		y		y		y			
6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system			y		y		y		y			
7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.			y		y		y		y			
8 All work performed shall be per governing codes			y		y		y		y			
9 Include cost of all surveying and layout (baseline survey to be provided by others)			y		y		y		y			
10 Include field measurement as required prior to fabrications			y		y		y		y			
11 SPECIFIC SCOPE ITEMS			y		y		y		y			
12 Provide all Heavy Duty Concrete Paving with steel reinforcement per VDOT PR-3			y		y		y		y			
13 Provide a Heavy Duty Concrete Pavement Detail as shown on C 0.8 ( 6" Aggregate Base Course (VDOT 21A), and 8" 4,000PSI Concrete)			y		y		y		y		y	
14 Provide all Vehicular and Pedestrian/Sidewalk Concrete Pavements as shown in the Project documents. Provide stone underneath all sidewalks and curbs.			y		y		n	HD Concrete Aprons	\$18,500	PP	y	
15 Provide Concrete pad at Dumpster Enclosure			y		y		y				y	
17 Install Exterior Steel Bollards and Concrete Bases/Footing			y		y		n		\$8,000	AMA	y	
18 Provide CG-12 Detectable Warning Surfaces, see C0.8			y		y		y				y	
19 Provide Curb & Gutter and Sidewalk as shown on C0.6 (6" Minimum aggregate base having CBR-30 under Curb and Gutter, 3" minimum aggregate base having CBR-30 under sidewalk).			y		y		y				y	
20 Provide Heavy Duty Concrete Pavement East of CIP Retaining Walls as shown on ART Paving and Patching Plans Issued 1.26.22			y		y		n		\$9,500	AMA	y	
21 Covid Vaccine or Testing per Arlington County Code			y		n				\$20,000	AMA	y	
											n	\$5,000
<b>D. Exclusions</b>												
1 All Asphalt paving is w/Asphalt			n		n		n				n	
2 All Pavement Markings are w/Asphalt			n		n		n				n	

3	Demo of existing site concrete is w/Earthwork	n		n		n		n		n		n	
4	Furnish steel bollards are w/Misc. Metals	n		n		n		n		n		n	
5	Light Pole bases are w/Electrical	n		n		n		n		n		n	
6	Provide Concrete channel and Concrete curb Ends as shown on C5.5 w/CIP	n		y	(\$162,500)			y		n		n	
7	Provide Concrete Jersey Barriers along Shirlington Road for Utility and Box Culvert Work	n		y	(\$36,000)			n		n		n	
<b>E. Special Trade Requirements</b>													
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%									100%	
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y						y			
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		n						n			
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y											
b	Office Policy [ Or Project Specific]	y											
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y											
<b>F. Schedule</b>													
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.												
1	Review and comply with Turner Schedule (AP-6)	y											
2	Duration for submittals and shop drawings, in working days	?			[14days]								
3	Duration for fabrication and delivery, in working days	?											
4	Installation duration, in working days	?											
<b>G. Alternates</b>													
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.												
1	100% Payment & Performance Bonds on Turner Forms	y											
2	Provide add alternate for onsite WC and GL insurance	y										[14,811]	
3													
<b>H. Unit Prices</b>													
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.												
1													
2													
3													

### 31 Fences Gates

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Beitzell Fence	B	Hercules	H	Long Fence	LF	Best Fence	BF
Scott Beitzell 703-754-0011 703-732-1355 <a href="mailto:scott@beitzellfence.com">scott@beitzellfence.com</a>		Andrew Maggard 703-906-2030 <a href="mailto:andrewm@herculesfence.com">andrewm@herculesfence.com</a>		Dan Tuckwiller 703-471-0960 <a href="mailto:dtuckwiller@longfence.com">dtuckwiller@longfence.com</a>		Jason Alton 410-768-9227 43-480-0124 <a href="mailto:jason@bestfence.biz">jason@bestfence.biz</a>	
01/27/22		01/28/22		01/28/22		1/32/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 307,370		\$ 426,750		\$ 404,075		\$ 479,640	
\$ 131,625 42.8%		\$ - 0.0%		\$ 42,950 10.6%		\$ 17,950 3.7%	
\$ 438,995 3%		\$ 426,750		\$ 447,025 5%		\$ 497,590 17%	
				Priced Alternate			

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y											
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y											
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		n		\$50,000		y											
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				n											
	5	Breakout Cost for Full Time Safety Manager	y		n		\$75,000		n											
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y											
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y											
<b>Bid Acknowledgements</b>																				
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				y											
<b>Contract Attachments</b>																				
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y											
	3	AP-2 Documents List dated 10/22/2021	y		y				y											
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y											
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y											
	6	AP-5 BIM Requirements	y		y				n											
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y											
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y											
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y											
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y											
	11	Bid valid for 90 days	y		y	30days			n											
	12	Retainage: 5%	y		y				y											
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y											
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y											
<b>Key Quantities and Breakouts (Populate Below)</b>																				
	1	Total Manhours	#		#	[450]			#		[640]									
	2	Peak # of Workers anticipated	#		#	[3]			#		[6]									
	3	Provide breakout of escalation costs	#																	
	4	Chain Link Fence (lf)	#		#	[1436]			#		[1410]		#		[1415lf]		#		[1335]	
	5	Decorative Metal Fence (lf)	#		#	[562]			#		[574]		#		[500]		#		[570]	
	6	Swinging Gates (ea)	#		#	[5]			#		[5]		#		[5]		#		[6]	
	7	Sleev-its (ea)	#		n	[130]	\$6,625	T	#		[248]		#		[0]		#		[0]	
	8	Dumpster Enclosure Gate (ea)	#		#	[1]			#		[1]		#		[0]		#		[0]	
	9	Chain Link Fencing with Slats around Dumpster Enclosure (lf)	#		#	[32]			#		[31]		n		\$3,725	B			\$3,725	B
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																				
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	CW														
	2	Where do the materials come from?	?																	
	3	What is lead time for materials?	?		?	8-12weeks														
	4	Identify Major Subcontractors	?																	
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																	
<b>Prequalification</b>																				
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?		y															
	2	Turner Prequalification Number:	?																	
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?		?	[.89]	AP-1		?		[.89]									Sub:
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR	?	2.00%			?		[1.4%]									
	7	Include Payment and Performance Bond	n																	P.A.:

Price														
Price:														
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.														
Company:														
Individual:														
Title:														
Signature:														
Date:														

AP-1 Statement of Work														
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF														
31 Fences Gates														
01/12/22														

A. General														
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y			y			y			y			y
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 31 Fences Gates scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y			y			y			y			y
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y			y			y			y
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y			y			y			y

B. Documents														
	The Work shall consist of 31 Fences Gates Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:													
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y			y			y			y
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y			y			y			y
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y			y			y			y
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y			y			y			y
5	RFI Log dated - TBD	y			y			y			y			y
6	Specifications	y			y			y			y			y
	- Division 00 - Procurement and Contracting Requirements (Complete)	y			y			y			y			y
	- Division 01 - General Requirements (Complete)	y			y			y			y			y
	323113 - Chain-Link Fence and Gates (Complete)	y			y			y			y			y

C. Inclusions														
<b>STANDARD REQUIREMENTS</b>														
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			y			y						
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y			y						
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y			n			n						
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			n			n						
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			y			y						
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			y			n						
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y			y			n						
8	All work performed shall be per governing codes	y			y			y						
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y			y			n						
10	Include field measurement as required prior to fabrications	y			y			y						
<b>SPECIFIC SCOPE ITEMS</b>														
11	Provide all Galvanized steel chain link fences and gates as shown in the project documents	y			y			y			y			y
12	Provide hardware and accessories for each gate per spec 323113 - 2.6C	y			y			y			y			y
13	Provide all fittings and accessories per spec 323113- 2.4	y			y			y			y			y
14	Provide all submittals per spec 323113-1.3	y			y			y			y			y
15	Provide all decorative fencing (Metalco per Addendum #1) and gates as shown	y			y			y			n	\$25,000	Turner	y
16	Provide anti-climb provision at fencing per sheet C0.10	y			y			y			y			y
17	Furnish Sleeve-its (Install will be with Retaining Walls Sub)	y			y			y			n	\$14,225	B	n
18	Provide concrete footers at Gate posts per sheet C0.10	y			y			y			y			y
19	Covid Vaccine or Testing per Arlington County Code	y			y			y			y			y
20	Provide temp site fencing	y			n			n			n			n

D. Exclusions														
1	Install of Sleeve-its is with Retaining Wall Sub	n			n			n			n			n

E. Special Trade Requirements													
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%										
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y			y						
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y									
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y									
b	Office Policy [ Or Project Specific)	y		y									
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		y									
F. Schedule													
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.												
1	Review and comply with Turner Schedule (AP-6)	y		y			y						
2	Duration for submittals and shop drawings, in working days	?						[10]					
3	Duration for fabrication and delivery, in working days	?						[50-70]					
4	Installation duration, in working days	?						[20]					
Allowances													
A	1												
A	2												
A	3												
	4												
	5												
G. Alternates													
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.												
1	100% Payment & Performance Bonds on Turner Forms	y											
2	Provide add alternate for onsite WC and GL insurance	y				[800]							
3													
H. Unit Prices													
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.												
1													
2													
3													



Chapel Valley	CV	McDonnell Landscape	ML	Commercial Scapes	CS	JB Kline	JB	Denison Landscaping	DL
Sterns Lott 703-585-2239 <a href="mailto:sternsl@chapelvalley.com">sternsl@chapelvalley.com</a>		Alvaro Blanco 941-374-6092 <a href="mailto:alvaro@mcdonnellandscape.com">alvaro@mcdonnellandscape.com</a>		IVI Cordova 703-393-7310 <a href="mailto:icordova@commercialsclapes.com">icordova@commercialsclapes.com</a>		Casey Tucker 240-801-0213 <a href="mailto:ctucker@jbklinelandscaping.com">ctucker@jbklinelandscaping.com</a>		Aaron Meaders 240-493-1362 <a href="mailto:aaron@denisonlandscaping.com">aaron@denisonlandscaping.com</a>	
01/27/22		01/06/22		02/02/22		01/28/22		01/26/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>NO</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 67,788		\$ 67,807		\$ 26,188		\$ 59,762		\$ 120,226	
\$ 47,576 70.2%		\$ 54,501 80.4%		\$ 78,752 300.7%		\$ 67,131 112.3%		\$ 24,980 20.8%	
\$ 115,364		\$ 122,308 6%		Incomplete		\$ 126,893 10%		\$ 145,206 26%	

**32 Planting**

Project: Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
 Job #: 20039  
 A/E: Stantec Architecture Inc.  
 Bid Date: 1/27/2022 @ NOON  
 AP1 Date: 01/12/22  
 Est: Scott Stevenson  
 Pro: Johnnel Lanham  
 Ops: Derek Brown  
 Estimator: Paul Gardephe, pgardephe@tcco.com, 571-318-3568

**Legend**  
 y INCLUDED  
 n EXCLUDED  
 ? QUESTION  
 # QUANTITY

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y									y		
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y									y		
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y									y		
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				n									y		
	5	Breakout Cost for Full Time Safety Manager	y		n				n									y		
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				n									y		
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				n									y		
<b>Bid Acknowledgements</b>																				
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y													y		
<b>Contract Attachments</b>																				
	2	AP-1 Statement of Work dated 1/12/2022	y		y													y		
	3	AP-2 Documents List dated 10/22/2021	y		y													y		
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y													y		
	5	AP-4 Logistics Plan dated 12/22/2021	y		y													y		
	6	AP-5 BIM Requirements	y		y													y		
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y									y		
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				y									y		
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y									y		
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y				y									y		
	11	Bid valid for 90 days	y		y				y									y		
	12	Retainage: 5%	y		y				y									y		
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y									y		
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y									y		
<b>Key Quantities and Breakouts (Populate Below)</b>																				
	1	Total Manhours	#						[300]										[560]	
	2	Peak # of Workers anticipated	#						[4]										[10-12]	
	3	Provide breakout of escalation costs	#																	
	4	Seed Landscape Area (sy)	#						[3404sy]										[15,400sf]	
	5	Soil Panels (cf)	#																[3244]	
	6	Import & Spread 4" Screened Topsoil (cy)	#						[440CY]										[1836]	
	7	Bio-pond Soil & Mulch (cy)	#						[109]										[446]	
	8	Bio-pond Plantings (sf)	#						[Included]										[118]	
	9	Trees (ea)	#						[94]										[97]	
	10	Tree Grates (ea)	#																	
	11	Shrubs (ea)	#						[60]										[60]	
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																				
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?						in house											
	2	Where do the materials come from?	?						TBD											
	3	What is lead time for materials?	?						1month											
	4	Identify Major Subcontractors	?																	
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a 30% BU UBE Participation Goal	?																	
<b>Prequalification</b>																				
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?																	
	2	Turner Prequalification Number:	?																	
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																	
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____ %]	?						[.08]										[.87]	
	7	Include Payment and Performance Bond	n						%										[1.5%]	
<b>Price</b>																				
	Price:																			



Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.												
Company:												
Individual:												
Title:												
Signature:												
Date:												
AP-1 Statement of Work												
Chapel Valley B1      McDonnell Landscape B1      Commercial Scapes B1      JB Kline B1      Denison Landscaping B1												
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF												
32 Planting      0      0      0      0      0												
01/12/22      -      -      -      -      -												
<b>A. General</b>												
The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.												
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 32 Planting scope as defined in this Statement of Work and as shown or described in the Contract Documents.												
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.												
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."												
<b>B. Documents</b>												
The Work shall consist of 32 Planting Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:												
1 Phase IV Submission for GMP Drawings - dated 12/21/2021												
2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021												
3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021												
4 Phase IV Submission for GMP Specifications dated 12/21/2021												
5 RFI Log dated - TBD												
6 Specifications												
- Division 00 - Procurement and Contracting Requirements (Complete)												
- Division 01 - General Requirements (Complete)												
329200 - Lawns and Grasses (Complete)												
- 329300 - Exterior Plantings (Complete)												
<b>C. Inclusions</b>												
<b>STANDARD REQUIREMENTS</b>												
1 Includes Hoisting/Rigging/Scaffolding Required for your Work												
2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters												
3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)												
4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.												
5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system												
6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system												
7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.												
8 All work performed shall be per governing codes												
9 Include cost of all surveying and layout (baseline survey to be provided by others)												
10 Include field measurement as required prior to fabrications												
<b>SPECIFIC SCOPE ITEMS</b>												
12 Provide all plants, trees, shrubs, mulch, and seed per the project documents												
13 Provide all submittals per spec 329200-1.5												
14 Existing topsoil is to be used to best extent possible for lawn areas												
15 This subcontractor shall verify suitability of stockpiled soil to produce or to be amended to produce viable soils for lawns and planting soil mix/backfill for planting beds.												
16 Import topsoil when required on the drawings and when quantity of existing topsoil is insufficient or when determined to be necessary due to soil testing results. Seed all Lawn areas.												
17 Provide mulch and plantings at all Bioretention ponds.												
18 Provide all submittals per spec 329300-1.3												
19 Provide protection of plants per spec 329300-3.1F												
20 Provide tree and shrub pruning per spec 329300-3.1E												
21 This contractor shall supply water for all plantings and shall water all plants at time of installation and 48 hours after installation and final acceptance per spec 329300-3.4												
22 This contractor shall maintain plantings at his/her own expense until final acceptance of the plantings per section 3.5 of spec 329300												
23 Provide a 1yr warranty period for all plantings												
24 Provide soil panels turnkey as shown on L2.0												
25 Provide irrigation at garage planter (top of garage). [Reference forthcoming RFI confirming irrigation, plantings, soil requirements]												
26 Provide plantings at garage planter.												





### 32 Retaining Walls- Permanent Cantilever (Soldier Pile)

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # **210215**  
 A/E **Stantec Architecture Inc.**  
 Bid Date **1/27/2022 @ 6pm**  
 AP1 Date **2/24/2022**  
 Ops **Derek Brown**  
 Estimator **Greg Hammer, 484-684-4348, ghammer@tcco.com**

**Legend**

y	INCLUDED
n	EXCLUDED

<b>Berkel &amp; Co. Contractors Inc.</b>	BCC	Keller North America, Inc.	KNA	Goettle	Goe
David Weatherer (301) 587-5111 (443) 253-1178 <a href="mailto:dweatherer@berkelandcompany.com">dweatherer@berkelandcompany.com</a>		Caleb Shockley  <a href="mailto:Caleb.Shockley@keller-na.com">Caleb.Shockley@keller-na.com</a>		Ralph Pagone +1 412-635-7155 +1 412-298-9139	
1/27/2022; 2/24/2022		01/31/22		02/02/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
<b>\$ 1,181,000</b>		<b>\$ 1,266,469</b> 7%		<b>\$ 2,225,000</b> 88%	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y				y			
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y				y			
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y				y			
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n/a				n/a			KNA	n			
	5	Breakout Cost for Full Time Safety Manager	y		n/a				n/a				n			
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y				y			
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y							
<b>Bid Acknowledgements</b>																
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y											
<b>Contract Attachments</b>																
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y				y			
	3	AP-2 Documents List dated 10/22/2021	y		y				y							
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y							
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y							
	6	AP-5 BIM Requirements	y		y				y							
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y							
	8	AP-7 Equipment Coordination Matrix	y		n/a				N/A				N/A			
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y							
	10	Include all Applicable Taxes	y		y				y							
	11	Bid valid for 90 days	y		y				y				n	30 days		
	12	Retainage: 5%	y		y				y							
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y			BCC	n			KNA	n	TBD		
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		y				y				y			
<b>Key Quantities and Breakouts (Populate Below)</b>																
	1	Total Manhours	#		#	3108 hrs.		BCC	#	1,340 hrs.		KNA				
	2	Peak # of Workers anticipated	#		#	10 wkrs		BCC	#	6 wkrs		KNA				
	3	Provide breakout of escalation costs	#		#	\$0		BCC	#							
	5	<b>Labor and Material Quantities</b>														
	6	<b>Wall One</b>														
	7	depth of piles	#		#	30 ft.		BCC	#	Approx.36 ft.		KNA				
	8	LF of cantilever wall	#		#	380 ft.		BCC	#	379 LF		KNA				
	9	Total SF of cantilever wall	#		#	4876 sf		BCC	#	3,535 SF		KNA				
	9.1	Number of Piles	#		#	49 piles		BCC	#	TBD						
	10	<b>Wall Two</b>														
	11	depth of piles	#		#	25ft		BCC	#	Approx.26 ft.		KNA				
	12	LF of cantilever wall	#		#	125 LF		BCC	#	125 LF		KNA				
	13	Total SF of cantilever wall	#		#	1016 SF		BCC	#	605 SF		KNA				



<b>Berkel &amp; Co. Contractors Inc.</b>	BCC	Keller North America, Inc.	KNA	Goettle	Goe
David Weatherer (301) 587-5111		Caleb Shockley		Ralph Pagone +1 412-635-7155	

### 32 Retaining Walls- Permanent Cantilever (Soldier Pile)

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**

13.1	Number of Piles	#	#	17 piles	BCC	#	TBD	KNA		
14	Total CY of Spoils	#	#	400 CY	BCC	#	TBD			
15	<b>Schedule</b>									
16	Total duration in weeks - Wall One	#	#	6 wks.	BCC	#	EST. 3	KNA		
17	Total duration in weeks - Wall Two	#	#	4 wks.	BCC	#	EST 2	KNA		
17.1	Total duration in weeks - Canal Wing Walls north of Culverts	#	#	3 wks.	BCC	#	EST 1	KNA		
19	<b>Cost Quantities</b>									
20	Cost for Design	\$	\$	\$5,000	BCC					
21	Cost for Materials	\$	\$	\$363,000	BCC					
22	Cost for Installation	\$	\$	\$466,000	BCC					
23	Cost included for Surveying	\$	\$	excluded	BCC	n	excl.	KNA		
24	Cost for Soldier Piles at Wing Wall Retaining Walls north of new culverts (north side of street)	\$	\$	\$123,000	BCC					

**Subcontractors (Provide Name, Scope UBE % and Price \$)**

1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?	?	union		?	Company & Union	KNA		
2	Where do the materials come from?	?	?	VA		?	TBD			
3	What is lead time for materials?	?	?	8 wks.		?	4 weeks avg.	KNA		
4	Identify Major Subcontractors	?	?	none		?				
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?	?	none		?	0%			

**Prequalification**

1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?	?	on file						
2	Turner Prequalification Number:	?								
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?	?	yes						
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?								
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?	EMR _____	0.59 EMR	BCC					
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?		1.30%	BCC					
7	Include Payment and Performance Bond	n	_____%	n		n	1%	KNA	n	1.00%

**Price**

Price:

Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.

Company:

Individual:

Title:

Signature:

Date:

**AP-1 Statement of Work**

**Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**

**32 Retaining Walls- Permanent Cantilever (Soldier Pile)**

2/24/2022

		y/n	Sub		Berkel & Co. Contractors In	BCC	Keller North America, Inc.	KNA	Goettle	Goe
				0	0	0				
				-	-	-				
<b>A.</b>	<b>General</b>									
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y		y		y		
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 32 Retaining Walls-Permanent Cantilever (Soldier Pile) scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		y		y		y		



<b>Berkel &amp; Co. Contractors Inc.</b>	BCC	Keller North America, Inc.	KNA	Goettle	Goe
David Weatherer (301) 587-5111		Caleb Shockley		Ralph Pagone +1 412-635-7155	

### 32 Retaining Walls- Permanent Cantilever (Soldier Pile)

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**

	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y			y			y			y		
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y			y			y			y		
<b>B. Documents</b>													
	The Work shall consist of 32 Retaining Walls- Permanent Cantilever (Soldier Pile) Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:	y			y			y			y		
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			y			y			y		
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y			y			y			y		
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y			y			y			y		
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y			y			y			y		
5	RFI Log with dated 2022.01.07	y			y			y			y		
6	RFI Log dated 2022.01.24	y			y			y			y		
7	Specifications	y			y			y			y		
	- Division 00 - Procurement and Contracting Requirements (Complete)	y			y			y			y		
	- Division 01 - General Requirements (Complete)	y			y			y			y		
8	Addendum 1- Updated Civil Drawings dated 2022.01.21	y			y			y			y		
<b>C. Inclusions</b>													
<b>STANDARD REQUIREMENTS</b>													
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y			y			y			y		
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y			y			y	dumpster by GC	KNA			
3	<b>Item deleted</b>	n			n			n			n		
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y			y			n	n/a				
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y			y			n	n/a				
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y			y			n	no demo	KNA			
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y			y			n					
8	All work performed shall be per governing codes	y			y			y					
10	Include field measurement as required prior to fabrications	y			y			n	n/a				
<b>SPECIFIC SCOPE ITEMS</b>													
11	Provide the Cantilever Retaining Wall System, complete, including delegated design by a Virginia licensed professional engineer.	y			y			y					
12	Provide all labor, specialty geotechnical design, materials, equipment, apparatus, tools, transportation, protection and services necessary for, and reasonably incidental to, design and installation of the permanent cantilever retaining wall system. The system shall be constructed using soldier piles, lagging, and concrete as outlined in the civil drawings.	y			y			y					
a	Provide drilled piers in locations where pile will need to penetrate existing wall footer.	y			y			n					
13	Provide all excavation for your work. Provide stockpiling of your work on site for removal by the Earthwork Subcontractor. Provide expected cubic yards of spoils.	y			y			n			n	wants full-time operator and equip provided	Goe
14	This Subcontractor shall coordinate performance of this work with existing site conditions including but not limited to clearance restraints, existing construction, utilities, and adjacent trades.	y			y			n					
16	This Subcontractor will provide casual dewatering for this scope of Subcontractor's work.	y			y			n	\$5,000	T			



<b>Berkel &amp; Co. Contractors Inc.</b>	BCC	Keller North America, Inc.	KNA	Goettle	Goe
David Weatherer (301) 587-5111		Caleb Shockley		Ralph Pagone +1 412-635-7155	

**32 Retaining Walls- Permanent Cantilever (Soldier Pile)**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**

17	Provide wall complete as shown in the documents. <b>Reference</b> detail in drawing C5.4, including providing weep holes at base, <b>providing</b> reinforced battered wall and wall cap. <b>Provide</b> hand rail will be by Others. <b>Assume</b> wall will be shotcrete and will not be battered.	y			y			n				n	Includes precast lagging		
18	Provide any preinforcing of pathways, crane pads, and other access requirements for your equipment and your work beyond the access roads as shown on the Logistics Plan.	y			n	needs access behind wall 2			n						
19	Provide code-required testing for this system.	y			y				n						
20	This subcontractor will provide flagging for the deliveries and equipment of this Subcontractor. Coordinate deliveries with General Contractor.	y			y				y						
21	This Subcontractor is responsible for the cleaning of their vehicles before leaving site. Provide street cleaning for this scope of work. <del>required by any failure to clean their vehicles before leaving site.</del>	y			y			y	street clean to extent of hand tools		KNA	n	wont clean concrete trucks, etc.	\$10,000	T
22	Provide the work of this scope in accordance with the project erosion and sediment (E&S) control plan. Repair E&S controls damaged by this subcontractor as a result of the work of this scope. <del>This Subcontractor is responsible for working with the site erosion and sediment control, and is responsible to repair any E&amp;S damaged by their work.</del> Maintaining overall site E&S control is with Earthwork Subcontractor.	y			y			y							
23	Coordinate with the Site Concrete Subcontractor for interface with channel construction.	y			y				n			T			
24	Piles will be placed where shown in the contract documents. <b>WHERE SHOWN ON THE PLANS.</b> Where a new wall is shown in the same location as an existing wall, place piles behind the existing cantilever wall ( on earth side, not canal side); drilling through existing cantilever wall footers. <b>WHERE NEW WALL IS SHOWN LOCATED IN SAME LOCATION AS EXISTING WALL, PLACE PILES BEHIND existing cantilever wall (on earth side, not canal side), DRILLING through existing CANTILEVER WALL footers.</b>	y			y				n		\$621,000	BCC/T			
25	Coordinate your deliveries, offloading, erect and installation with existing overhead power lines and other elements.	y			y				n		with item 24 above				
26	<del>Note that</del> The project does not have availability to work from the private road that runs between the buildings to the CubeSmart Building. <b>The work of this scope shall be planned and coordinated accordingly by this Subcontractor.</b>	y			y	need access on east side of canal		y	plans to work from top of existing		KNA				
27	Provide the concrete wall cap at pile walls.	y			y				n		with item 24 above	KNA			
28	<b>Provide soldier piles and studs per the contract documents</b> for the wing wall retaining walls on both sides of the canal on the north side of the new culverts. <del>provide soldier piles and studs per the detail on the civil dwgs.</del> Provide a shotcrete wall to matching the shotcrete walls of Retaining Wall One and Retaining Wall Two in lieu of a CIP concrete wall.	y			y				n		with item 24 above				
29	Install soldier pile SOE system, including temporary plating for roadway and center pile and divider to allow culvert work to be installed in two(2) phases- north half and south half. Piles are to be installed below the road surface and plated to <b>remain allow</b> one (1) lane of access at all times.	y			n		[184,000]	BCC	n		\$184,000	BCC			
30	Provide test pits as required based on known information of onsite utilities. <b>Provide</b> all nineteen (19) piles at road and <b>ten</b> (10) additional test pits along pile walls for existing sanitary line and any addition utilities identified by Miss Utility.	y			n		[20,000]	BCC	n		\$20,000	BCC			
31	<b>Provide design input, calculations, shop drawings and attend meeting to facilitate supportive excavation permit process.</b>	y			y				y				y		
<b>D. Clarifications</b>															
1	<del>Provide handrail will be furnished and installed,</del> by coring and grouting, is with Misc. Metals Subcontractor.	n			n				n				n		
2	<del>Provide haul off of spoils</del> stocked in a central location by this subcontractor is with <del>will be removed by</del> Earthwork Subcontractor	n			n				n				n		
3	<b>Provide</b> backfill and concrete cap for channel detail for section C-C. <b>Reference e.g. on C5.5 is with Site Concrete.</b> Concrete cap on soldier pile wall is with <b>Soldier Pile</b>	n			n	notes that cap is integral to wall			n				n		
4	Provide <b>baseline and soldier pile</b> surveying <b>including survey as-builts</b> is with Surveying	n			n				n				n		
5	Permits for work of your trade will be by GC with support from this Subcontractor (design, calcs, dwgs, meetings, etc.)	n			n	see owner allowance		BCC	n				n		
<b>E. Special Trade Requirements</b>															



<b>Berkel &amp; Co. Contractors Inc.</b>	BCC	Keller North America, Inc.	KNA	Goettle	Goe
David Weatherer (301) 587-5111		Caleb Shockley		Ralph Pagone +1 412-635-7155	

### 32 Retaining Walls- Permanent Cantilever (Soldier Pile)

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**

Project	Description	#	%		#	0%	BCC	#	0%		#	0%		
1	% <b>UBE - Underutilized Business Enterprise</b> (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.		___%		#	0%	BCC	#	0%		#	0%		
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y			y	y	BCC							
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y			y	y	BCC				n	\$2M		
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y			y	y	BCC							
b	Office Policy	y			y	y	BCC							
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y			y	y	BCC							
4	Includes escalation of labor and material costs	y			y		BCC	n			n			
<b>F. Schedule</b>														
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.					y								
1	Review and comply with Turner Schedule (AP-6)	y			y	y		y			y			
2	Duration for submittals and shop drawings, in working days	?			y	15 days	BCC							
3	Duration for fabrication and delivery, in working days	?			y	20 days	BCC							
4	Installation duration, in working days	?			y	60 days	BCC							
<b>Allowances</b>														
A	1	Owner allowance - Provide permit and permit Expeditor	y		n	does not have	\$20,000	T	n	\$20,000	T	n	\$20,000	T
<b>G. Alternates</b>														
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.												
1	100% Payment & Performance Bonds on Turner Forms	y			y	1.30%	BCC	y	1%	KNA	y		Goe	
2	Provide add alternate for onsite WC and GL insurance	y			y	\$10,000	BCC							
<b>H. Unit Prices</b>														
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.												
1	N/A													



## 32 Retaining Walls

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Segmental Wall Specialists	SW	Structures Hardscape Specialists	SH	Terrasite	T
Michael Keale 703-932-4817 <a href="mailto:mkeale@segmentalwall.com">mkeale@segmentalwall.com</a>		Matt Hoel 612-840-4887 <a href="mailto:mhoel@hardscapes.net">mhoel@hardscapes.net</a>		Bill Potempa 703-436-1826 <a href="mailto:info@terrasite.com">info@terrasite.com</a>	
01/27/22		1.31.22		01/27/22	
<b>NO</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 279,125		\$ 346,251		\$ 453,509	
\$ 5,616 2.0%		\$ 43,027 12.4%		\$ 5,000 1.1%	
<b>Incomplete</b>		<b>\$ 389,278</b>		<b>\$ 458,509</b>	<b>18%</b>
<b>Withdrew Number due to COVID POLICY</b>					

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																
1		Turner Construction Company's Environmental Health and Safety Program	y						y				n			
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y						y				n			
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y						y				y			
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y						n				n			
5		Breakout Cost for Full Time Safety Manager	y						n				n			
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y						n				y			
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y						y				y			
<b>Bid Acknowledgements</b>																
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y						y				n			
<b>Contract Attachments</b>																
2		AP-1 Statement of Work dated 1/12/2022	y						y				n			
3		AP-2 Documents List dated 10/22/2021	y						y				n			
4		AP-3 Supplementary Provisions dated 1/14/2022	y						y				n			
5		AP-4 Logistics Plan dated 12/22/2021	y						y				n			
6		AP-5 BIM Requirements	y						y				n			
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y						y				y			
8		AP-7 Equipment Coordination Matrix dated - TBD	y						y				n			
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y						y				n			
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y						y				n			
11		Bid valid for 90 days	y						n	30days			n			
12		Retainage: 5%	y						y				n			
13		Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion and <b>\$712.00 /day</b> for each calendar day beyond Final Project Completion	y						n				n			
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y						n				n			
<b>Key Quantities and Breakouts (Populate Below)</b>																
1		Total Manhours	#			[544]				[340]				[1440]		
2		Peak # of Workers anticipated	#			[4]				[5]				[6]		
3		Provide breakout of escalation costs	#							\$50.04/sf						
4			#													
<b>Labor and Material Quantities</b>																
5		Wall One	#													
8		LF of Redi-Rock wall	y			[736]			y	737LF			y	[738]		
9		Total SF Redi-Rock Wall	y			[5327sf]			y	5242SF			y	[5198sf]		
10		Wall Two														
12		LF of Redi-Rock wall	y			[373]			y	532LF			y	[368]		
13		Total SF Redi-Rock Wall	y			[1049]			y	1347sf			y	[1156]		
14																
<b>Schedule</b>																
15		Total duration in weeks - Wall One	y			[2]				[7days]			y	[5]		



17	Total duration in weeks - Wall Two	y			[1]			[2days]		y	[1]
18											
19	<b>Cost Quantities</b>										
20	Cost for Design	y						[6,000]		n	
21	Cost for Materials	y								n	
22	Cost for Installation	y								n	
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>											
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?						CW		n	
2	Where do the materials come from?	?									
3	What is lead time for materials?	?									
4	Identify Major Subcontractors	?									
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?									
<b>Prequalification</b>											
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?									
2	Turner Prequalification Number:	?									
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?									
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?									
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?									[.92]
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____					[.73]			[1.8%]
7	Include Payment and Performance Bond	n	_____%		3%			1.10%			
<b>Price</b>											
Price:											
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.											
Company:											
Individual:											
Title:											
Signature:											
Date:											

AP-1 Statement of Work	Segmental Wall Specialist B1	Structures Hardscape Specia B1	Terrasite B1
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Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF	0	0	0
32 Retaining Walls	-	-	-
01/12/22	y/n	Sub	

<b>A. General</b>											
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y						y			y
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 32 Retaining Walls scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y						n	Excludes Permits		y
	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y						n	Excludes Permits		y
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y						y			y

<b>B. Documents</b>											
	The Work shall consist of 32 Retaining Walls Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:										
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y			AP-1			y			n
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y						y			n

Sub:

P.A.:



17	Total duration in weeks - Wall Two	y			[1]			[2days]		y	[1]	
18												
19	<b>Cost Quantities</b>											
20	Cost for Design	y						[6,000]		n		
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y					y			n		
4	Phase IV Submission for GMP Specifications dated 12/21/2021	y					y			n		
5	RFI Log dated - TBD	y					n			n		
6	Specifications	y					n			n		
	- Division 00 - Procurement and Contracting Requirements (Complete)	y					y			n		
	- Division 01 - General Requirements (Complete)	y					y			n		
<b>C. Inclusions</b>												
<b>STANDARD REQUIREMENTS</b>												
1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y					n			y		
2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y					y			n		
3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y					n			n		
4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y					n			n		
5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y					n			y		
6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y					n			n		
7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y					n			n		
8	All work performed shall be per governing codes	y					y			y		
9	Include cost of all surveying and layout (baseline survey to be provided by others)	y					n			n		
10	Include field measurement as required prior to fabrications	y					n			y		
11	<b>SPECIFIC SCOPE ITEMS</b>	y										
12	Provide all gravity retaining walls complete, including design by a Virginia licensed Professional Engineer	y					y			y		
13	Provide Excavation from top of stone footer	y		y			y			y		
14	Backfill Gravity retaining walls after installation with stone and Earth, see sheet C5.4 for Wall Details	y		y			n	\$37,411	SH	y		
15	This Subcontractor shall coordinate performance of this work with existing site conditions including but not limited to clearance restraints, existing construction, utilities, and adjacent trades.	y		y			y			n	\$0	T
16	Provide test pits as required based on known information of onsite utilities.	y		y			n	With Site Contractor	SH	y		
17	This Subcontractor will provide casual dewatering for this Subcontractor's work.	y		y			n	With Site Contractor	SH	n	With Site Contractor	
18	Install sleeve-its as shown (Will be furnished by Fencing)	y		n			n	\$5,616	SH	n	\$5,616	SH
19	Installation of Retaining Walls to only be completed on this property, no access will be provided on neighbor's property	y		y			y			y		
20	Covid Vaccine or Testing per Arlington County Code	y					y			n	\$5,000	T
<b>D. Exclusions</b>												
1	Soldier Pile Wall is by others.	n					n			n		
2	Spoils stocked in a central location by this subcontractor will be removed by Earthwork Subcontractor	n					n			n		
3	Furnish sleeve-its is w/fencing	n					n			n		
4	Backfill retaining walls after installation is w/Earthwork	n					n			n		
5	Excavation from existing grade to top of footer is w/Earthwork	n					n			n		
<b>E. Special Trade Requirements</b>												
1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	____%							n		
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y								n		
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y								n		
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y								n		
b	Office Policy [ Or Project Specific)	y								n		
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y								n		
<b>F. Schedule</b>												
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.											
1	Review and comply with Turner Schedule (AP-6)	y										
2	Duration for submittals and shop drawings, in working days	?										
3	Duration for fabrication and delivery, in working days	?										
4	Installation duration, in working days	?										
					AP-1							Sub:
<b>Allowances</b>												



17	Total duration in weeks - Wall Two	y			[1]			[2days]		y	[1]	
18												
19	<b>Cost Quantities</b>											
20	Cost for Design	y						[6,000]		n		
A	1											
A	2											
A	3											
	4											
	5											
<b>G. Alternates</b>												
	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.											
	1	100% Payment & Performance Bonds on Turner Forms	y									
	2	Provide add alternate for onsite WC and GL insurance	y									
	3											
<b>H. Unit Prices</b>												
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.											
	1											
	2											
	3											

### 33 Water Utilities

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Hopke	H	Total Civil	TC	Laurita	L	Corinthian	C
Matt Hopke 703 971-0404 703 626-7541 <a href="mailto:matt.hopke@wbhopke.com">matt.hopke@wbhopke.com</a>		Sid Rouholamin 301-459-7484 ext.137 <a href="mailto:srouholamin@tcce.biz">srouholamin@tcce.biz</a>		Ott Meale 304-288-9727 <a href="mailto:ott@laurita.com">ott@laurita.com</a>		Ahin Watti 301-568-6510 <a href="mailto:awatti@corinthiancontractors.com">awatti@corinthiancontractors.com</a>	
01/31/22		01/27/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 1,608,298		\$ 2,308,167		\$ 2,510,664		\$ 2,689,000	
\$ 287,614 17.9%		\$ (191,000) -8.3%		\$ 25,000 1.0%		\$ 25,000 0.9%	
\$ 1,895,912		\$ 2,117,167 12%		\$ 2,535,664 34%		\$ 2,714,000 43%	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>																				
	1	Turner Construction Company's Environmental Health and Safety Program	y		y				y					y				y		
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y				y					y				y		
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y				y					y				y		
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		n				y					y				y		
	5	Breakout Cost for Full Time Safety Manager	y		n				n					y				y		
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y				y					y				y		
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y				y					y				y		
<b>Bid Acknowledgements</b>																				
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y				n					y				y		
<b>Contract Attachments</b>																				
	2	AP-1 Statement of Work dated 1/12/2022	y		y				y					y				y		
	3	AP-2 Documents List dated 10/22/2021	y		y				y					y				y		
	4	AP-3 Supplementary Provisions dated 1/14/2022	y		y				y					y				y		
	5	AP-4 Logistics Plan dated 12/22/2021	y		y				y					y				y		
	6	AP-5 BIM Requirements	y		y				y					y				y		
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y				y					y				y		
	8	AP-7 Equipment Coordination Matrix dated - TBD	y		y				n					y				y		
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y				y					y				y		
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		[50,125]	H	y					y				y		
	11	Bid valid for 90 days	y				[30days]		y					y				y		
	12	Retainage: 5%	y		y				y					y				y		
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y		y				y					y				y		
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y		n				y					y				y		
<b>Key Quantities and Breakouts (Populate Below)</b>																				
	1	Total Manhours	#																	
	2	Peak # of Workers anticipated	#																	
	3	Provide breakout of escalation costs	#																	
	4	8" DIP Water (lf)	#			[284LF]				[291lf]									[295]	
	5	Fire Hydrants (ea)	#			[1]				[1]									[1]	
	6	Sanitary Manholes, Frames, and Covers (ea)	#			[5]				[7]									[6]	
	7	6"PVC Sanitary (lf)	#			[199]				[168lf]									[238]	
	8	8" PVC Sanitary (lf)	#			[354]				[350]									[352]	
	9	12" RCP Storm (lf)	#			[47]				[48]									[46]	
	10	15" RCP Storm (lf)	#			[403]				[368]									[387]	
	11	18" RCP Storm (lf)	#			[277]				[272]									[277]	
	12	27" RCP Storm (lf)	#			[83]				[72]										
	13	10" HDPE Storm (lf)	#			[388]				[392]									[394]	
	14	8"HDPE Storm (lf)	#			[218]				[238]										
	15	Storm Manholes/Catch Basins (ea)	#			[9]				[13]									[12]	
	16	Detention System (\$)	#				[258,581]	H												
	17	Bio-Ponds (sf)	#			[966]													[955sf]	
	18	Precast Box Culverts (\$)	#				[279,339]	H		[721,165]										
	19	Storm Pump Arouds (\$)	#																	
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>																				
	1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?																	
	2	Where do the materials come from?	?																	3-5mo

### 33 Water Utilities

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Hopke	H	Total Civil	TC	Laurita	L	Corinthian	C
Matt Hopke 703 971-0404 703 626-7541 <a href="mailto:matt.hopke@wbhopke.com">matt.hopke@wbhopke.com</a>		Sid Rouholamin 301-459-7484 ext.137 <a href="mailto:srouholamin@tcce.biz">srouholamin@tcce.biz</a>		Ott Meale 304-288-9727 <a href="mailto:ott@laurita.com">ott@laurita.com</a>		Ahin Watti 301-568-6510 <a href="mailto:awatti@corinthiancontractors.com">awatti@corinthiancontractors.com</a>	
	01/31/22		01/27/22		01/27/22		01/27/22
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 1,608,298		\$ 2,308,167		\$ 2,510,664		\$ 2,689,000	
\$ 287,614 17.9%		\$ (191,000) -8.3%		\$ 25,000 1.0%		\$ 25,000 0.9%	
<b>\$ 1,895,912</b>		<b>\$ 2,117,167</b> 12%		<b>\$ 2,535,664</b> 34%		<b>\$ 2,714,000</b> 43%	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	3	What is lead time for materials?	?			RCP 4-5 Months, SF - 8-12 wks, PVC 8-12 Wks, DIP 12+ weeks														
	4	Identify Major Subcontractors	?																	
	5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?																	
<b>Prequalification</b>																				
	1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?																	
	2	Turner Prequalification Number:	?																	
	3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?																	
	4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?																	
	5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?																	
	6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____																
	7	Include Payment and Performance Bond	n	_____%		1.00%														
<b>Price</b>																				
Price:																				
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.																				
Company:																				
Individual:																				
Title:																				
Signature:																				
Date:																				

AP-1 Statement of Work				Hopke	B1	Total Civil	B1	Laurita	B1	Corinthian	B1
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		Sid Rouholamin		0		Ahin Watti	
33 Water Utilities				-		301-459-7484 ext.137		-		301-568-6510	
01/12/22											

A. General		y/n	Sub	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.		y		y				y				y			
The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 33 Water Utilities scope as defined in this Statement of Work and as shown or described in the Contract Documents.		y		y				y				y			
The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.		y		y				y				y			
In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."		y		y				y				y			
B. Documents															
The Work shall consist of 33 Water Utilities Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:															
1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y	AP-1			y				y			Sub: _____
2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		n	Page 2 of 6			y				y			P.A.: _____
3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y				y				y			

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01/31/22		01/27/22		01/27/22		01/27/22	
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A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug	y/n	Text	Adjustments	Plug
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y				y				y							
	5	RFI Log dated - TBD	y		y				y				y							
	6	Specifications	y		y				y				y							
		<b>ART Paving and Patching Plans Issued 1.26.22</b>	y		y				y				y							
		- Division 00 - Procurement and Contracting Requirements (Complete)	y		y				y				y							
		- Division 01 - General Requirements (Complete)	y		y				y				y							
		314000 - Shoring and Underpinning (as applicable)	y		n				y				y							
		331000 - Exterior Water System (Complete)	y		y				y				y							
		- 333000 - Sanitary Sewerage (Complete)	y		y				y				y							
		- 334100 - Storm Drainage (Complete)	y		y				y				y							
		- 334613 - Foundation Drainage Systems (as applicable)	y		y				y				y							
	<b>C.</b>	<b>Inclusions</b>																		
		<b>STANDARD REQUIREMENTS</b>																		
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y				y				y							
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y				y				y							
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		y				y				y							
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y				y				y							
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y				y				y							
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		n	Others			y				y							
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		n				n				y							
	8	All work performed shall be per governing codes	y		y				y				y							
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y				y				y							
	10	Include field measurement as required prior to fabrications	y		y				y				y							
	11	<b>SPECIFIC SCOPE ITEMS</b>																		
	12	Provide cut, cap, and make safe of existing water, sanitary, and storm utility lines shown to be removed or abandoned in place per project documents. Removal of all existing Wet utilities by this Subcontractor.	y		n		\$12,854	H	y	Included removal of all Wet Utilities			y							
	13	Provide TV inspection of Utility Services prior to and at completion of work	y		n		\$20,000	T	n		\$20,000	T	n		\$20,000	T	n		\$20,000	T
	13	This subcontractor is responsible for all dust control during the course of their work. All areas shall be wet down during the work day to keep dust to a minimum.	y		y				y				y							
	14	This Subcontractor is responsible for all excavation, backfill, and stockpiling of spoils generated for this scope of work to a consolidated area onsite directed by Turner. Provide select fill if required by project documents.	y		y				y	Using trench dirt to backfill			n							
	15	<b>Water:</b>																		
	16	Provide all Water Piping as shown in the project documents	y		y				y				y							
	17	Provide installation of Water Meters (Water Meters will be furnished by local utility provider per specs)	y		y				n				y							
	18	Provide all submittals per spec 331000-1.3.	y		y				y				y							
	19	Provide test pitting to determine the existing system location, size, and piping material. Perform site survey to verify existing utility locations. Verify that water distribution system piping may be installed in compliance with the design and reference standards.	y		y				y				y							
	20	Provide all Fire Hydrants as shown in the project documents.	y		y				y				y							
	21	Provide all Domestic and Fire Department Connections	n		n	Not applicable			n				n							
	22	Provide Water Testing per spec 331000-4.1	y		y				y				y							
	23	Provide Temp water to jobsite trailers	y		n		\$15,060	H	y				y							
	24	Provide temporary water line from west side of culvert to east side of culvert during culvert construction. At completion of culvert, switch over to permanent line when available.	y		n		Will lower Existing water line before box culvert installation		y				y							
	25	Provide as-builts per spec 331000 - 3.3	y		y	Red-Line Drawings			y				y							
	26	Provide disinfection of pipe lines and appurtenances prior to them being place in service per spec 331000-4.2	y		y				y				y							
	27	Provide chlorination, flushing, and bacterial testing of water lines as required per AHJ.	y		y				y				y							
	28	<b>Sewer:</b>																		
	29	Provide all sanitary piping and connections as shown in the project documents.	y		y				y				y							
	30	Provide all Sanitary manholes, frames, and covers.	y		y				y				y							

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	31	Provide Sanitary sewer connection to job office trailer	y		n		\$9,292	H	y				y							
	32	Provide all submittals per spec 33300 - 1.3	y		y				y				y							
	33	Provide Sanitary Sewer Field Tests and Force Main Field Tests per Specs	y		y	No Force Main Field Tests			y				y							
	34	Provide clean and vac of sanitary piping	y		y				y				y							
	35	Provide cleanouts of sanitary piping per spec 333000-2.8	y		y				y				y							
	36	Provide all Sanitary Testing per spec 33300 - 4.1	y		y				y				y							
	37	Work around existing live sanitary lines for tie-ins and rework of channels (Pump around or scheduling as required)	y		y				y				y							
	38	All existing manhole covers on east side of the Site must be raised to meet final proposed grades. These lines are active.	y		y	A,B, and C Only			y				y							
	39	Coordinate Existing Sanitary with proposed sanitary, pump around if required	y		y	Includes			y											
	40	<b>Storm:</b>																		
	41	Provide all Storm piping and connections as shown in the project documents.	y		y				y				y							
	42	Provide all Storm manholes, frames, and covers.	y		y				y				y							
	43	Provide all submittals per spec 334100 - 1.3	y		y				y				y							
	44	Provide storm cleanouts per spec 334100-2.4	y		y				y				y							
	45	Provide drop inlets and Inlet shaping per spec 334100 -3.6/3.7	y		y				y				y							
	46	Provide trench drains per spec 334100-3.8	n		n	No Details Shown			n	No Details Shown			n							
	47	Provide all underground Storm Detention Systems and BMPs including all excavation and backfill see sheets C12.4 and C12.5	y		y				y	[194,469]	TC		y							
	48	Clean storm detention systems and BMPs prior to installation of filters and turnover to the Owner	y		y				y				y							
	49	Provide complete bioretention ponds as identified per the project documents. This includes but is not limited to excavation from top of mulch layer down to bottom of biopond, aggregate stone layers, underdrain piping, filter fabric, and clay liners. (Plantings, Mulch, and irrigation to be with landscaping)	y		y				y				y							
	50	Provide Pump Around at Culvert and Stream including, (2) 12" Storm Pump Around Sets and dam from North side of site all the way down to south side of the site, provide temporary water diversion dam and pond per sheet C2.0. Include maintenance and operation for this operation of pumping during culvert construction and stream construction.	n		y		(\$10,000.0)	H	y		(\$196,000.0)	TC	n							
	51	Relocate bypass piping from east side of stream to west side of stream during construction	y		n	Will lower Existing water line before box culvert			y				y							
	52	Provide Twin Box Culverts as shown. Installation sequence as follows: Site Concrete to Install Jersey Barriers in center of the road to allow traffic to the North and Culvert Construction to the South. Once South Culvert and Hardscape construction is complete switch traffic to south and Culvert Construction to North.	y		y				y				y							
	53	Comply with traffic control plan at Box Culverts See sheets C16.0/16.1	y		y				y				y							
	54	Provide sleeves for the east side of the culvert to the west side for future gas line install	y		n		\$11,801	H	y				n							
	55	Provide sawcutting of asphalt for your work at the Box Culvert area(Shirlington Road)	y		y				y				n							
	56	Provide permanent asphalt patching at Box Culvert area	n		n				n				n							
	57	Provide storm connection to building downspouts (Schedule 40 PVC per specs)	y		n		\$5,000	T	n		\$5,000	T	n		\$5,000	T	n		\$5,000	T
	58	Covid Vaccine or Testing per Arlington County Code	y		y				y				y							
	59	Provide demolition and removal of sanitary line from Manhole B to Manhole H (See C1.2 Demo Plan and Sanitary Profiles for elevations). Provide backfill and meet compaction requirements	y		n	Includes Demo, see Backfill Allowance for all Wet Utility Work Below	[24,206]	H	y				y							
	60	Provide sawcutting and demo of asphalt at Utility areas per ART Paving and Patching Areas Issued by Turner on 1.26.22. Include channeling roadway for 18" pump around pipe of pump around (F&I of pump around by others)	y		y				y				y							
	61	This subcontractor is responsible for removal of the existing stream culvert pipes, as well as the excavation needed to install the new box culverts.	y		y				y				y							
	<b>D. Exclusions</b>																			
	1	Oil/Sand Receptor is w/Plumbing	n		n				n				n							
	2	Demo of existing utilities outside of Shirlington Road is w/Earthwork	y		y				y				y							
	3	All plantings and mulch to be w/Landscaping	n		n				n				n							
	4	Haul of spoils by Earthwork subcontractor.	n		n				n				n							

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	5	Provide Full Depth Pavement Detail (2" SM-12.5, 8" VDOT-21B, 6" BM-25) at Utility Trenches per ART Paving and Patching Areas Issued by Turner on 1.26.22 is w/Asphalt	n		n				n				n				n			
	6	Provide prefabricated boot at building downspout connections to storm lines is w/Roofing	n		n				n				n				n			
	7	Jersey Barriers at Shirlington Road for controlling box culvert and Utility Work Areas is w/Site Concrete	n		n				n				n				n			
	8	Remove and Replace Gas Lines are w/ Washington Gas	n		n				n				n				n			
	9	This estimate assumes the gas service up to the gas meter is assumed to be by the Utility Company (Washington Gas) and is not included.	n		n				n				n				n			
	10	Support of Excavation at the Box Culvert area is to be provide by the soldier pile subcontractor.	n		n				y		(\$20,000)	TC	n				n			
	11	Storm Pump arounds at the Box Culvert and down the concrete channel are w/Temp Pump Subcontractor	n		n				n				n				n			
<b>E.</b>																				
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%																
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		y				y				y				y			
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y				y				y				y			
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y				y				y				y			
	b	Office Policy [ Or Project Specific)	y		y				y				y				y			
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		y				y				y				y			
	4	Includes escalation of labor and material costs	y		y		[139D]		y				y				y			
<b>F. Schedule</b>																				
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.																		
	1	Review and comply with Turner Schedule (AP-6)	y		y				y				y				y			
	2	Duration for submittals and shop drawings, in working days	?																	
	3	Duration for fabrication and delivery, in working days	?																	
	4	Installation duration, in working days	?																	
<b>Allowances</b>																				
A	1	Provide Sanitary Manhole Structure F Per RFI #196	y				\$125,895	H												
A	2	Backfill all (Proposed and Demolished Existing) Utility areas with Imported Soil	y				\$97,711	T/H												
							Total CY taken from latest Hopke Proposal, Unit Cost for Import to fill taken from Strittmatter on Previous Job (\$22/CY)													
A	3																			
	4																			
	5																			
					Yes/No -->	yes			Yes/No -->	yes			Yes/No -->	yes			Yes/No -->	yes		
<b>Subcontractor Bid</b>						\$	1,608,298		\$	2,308,167			\$	2,510,664			\$	2,689,000		
<b>Total Adjustments</b>						\$	287,614		\$	(191,000)			\$	25,000			\$	25,000		
<b>Leveled Total Bid</b>						\$	1,895,912		\$	2,117,167			\$	2,535,664			\$	2,714,000		
						<b>LOW BID</b>	<b>1</b>		<b>2</b>	0.1167			<b>3</b>	0.3374			<b>4</b>	0.4315		
<b>G. Alternates</b>																				
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.																		
	1	100% Payment & Performance Bonds on Turner Forms	y																	
	2	Provide add alternate for onsite WC and GL insurance	y																	

### 33 Water Utilities

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date **1/27/2022 @ NOON**  
 AP1 Date **01/12/22**  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

Hopke	H	Total Civil	TC	Laurita	L	Corinthian	C
Matt Hopke 703 971-0404 703 626-7541 <a href="mailto:matt.hopke@wbhopke.com">matt.hopke@wbhopke.com</a>		Sid Rouholamin 301-459-7484 ext.137 <a href="mailto:srouholamin@tcce.biz">srouholamin@tcce.biz</a>		Ott Meale 304-288-9727 <a href="mailto:ott@laurita.com">ott@laurita.com</a>		Ahin Watti 301-568-6510 <a href="mailto:awatti@corinthiancontractors.com">awatti@corinthiancontractors.com</a>	
01/31/22		01/27/22		01/27/22		01/27/22	
<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>		<b>FULLY SCOPED</b>	
\$ 1,608,298		\$ 2,308,167		\$ 2,510,664		\$ 2,689,000	
\$ 287,614 17.9%		\$ (191,000) -8.3%		\$ 25,000 1.0%		\$ 25,000 0.9%	
<b>\$ 1,895,912</b>		<b>\$ 2,117,167</b> 12%		<b>\$ 2,535,664</b> 34%		<b>\$ 2,714,000</b> 43%	

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug												
	<b>H.</b>	<b>Unit Prices</b>																		
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.																		
	1																			
	2																			
	3																			

## 33 Temp Pump Arouns

**Project** Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF  
**Job #** 20039  
**A/E** Stantec Architecture Inc.  
**Bid Date** 2/16/2022 @ NOON  
**AP1 Date** 02/14/22  
**Est** Scott Stevenson  
**Pro** Johnnel Lanham  
**Ops** Derek Brown  
**Estimator** Paul Gardephe, pgardephe@tcco.com, 571-318-3568

Legend	
y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

United Rentals	UR
Sean Baner 410-684-4576 <a href="mailto:sbaner@ur.com">sbaner@ur.com</a>	
02/20/02	
FULLY SCOPED	
\$ 150,014	
\$ 104,100	69.4%
\$ 254,114	
4 Month total Duration (Includes Both Phases)	

A/Q	Item	Description	y/n	Sub Response		y/n	Text	Adjustments	Plug
Turner Construction Company's Environmental Health and Safety Program									
	1	Turner Construction Company's Environmental Health and Safety Program	y						
	2	Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y						
	3	OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y						
	4	If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y						
	5	Breakout Cost for Full Time Safety Manager	y						
	6	Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y						
	7	Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y						
Bid Acknowledgements									
	1	Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y						
Contract Attachments									
	2	AP-1 Statement of Work dated 1/12/2022	y						
	3	AP-2 Documents List dated 10/22/2021	y						
	4	AP-3 Supplementary Provisions dated 1/14/2022	y						
	5	AP-4 Logistics Plan dated 12/22/2021	y						
	6	AP-5 BIM Requirements	y						
	7	AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y						
	8	AP-7 Equipment Coordination Matrix dated - TBD	y						
	9	Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y						
	10	Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y						
	11	Bid valid for 90 days	y						
	12	Retainage: 5%	y						
	13	Liquidated Damages: \$7,867.00/day for each calendar day beyond Substantial Completion and \$712.00 /day for each calendar day beyond Final Project Completion	y						
	14	LEED: LEED Silver; Project is striving for minimal environmental impact	y						
Key Quantities and Breakouts (Populate Below)									
	1	Total Manhours	#						
	2	Peak # of Workers anticipated	#						

Sub: \_\_\_\_\_  
P.A.: \_\_\_\_\_

3	Provide breakout of escalation costs	#				
4		#				
5		#				
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>						
1	What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?				
2	Where do the materials come from?	?				
3	What is lead time for materials?	?				
4	Identify Major Subcontractors	?				
5	Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?				
<b>Prequalification</b>						
1	Current Prequalification Questionnaire on file or Submitted at time of Bid	?				
2	Turner Prequalification Number:	?				
3	Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?				
4	Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?				
5	Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?				
6	Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____			
7	Include Payment and Performance Bond	n	_____%			
<b>Price</b>						
Price:						
Note: A representative empowered to execute contracts must sign this Subcontractor Checklist and AP-1. If this is anyone other than a company officer, a letter must be prepared by a company officer authorizing the individual below to sign these documents. The letter must be submitted with this proposal.						
Company:						
Individual:						
Title:						
Signature:						
Date:						
<b>AP-1 Statement of Work</b>				<b>United Rentals</b>		<b>B1</b>
Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF				0		
33 Temp Pump Rounds				-		
02/14/22				y/n	Sub	
<b>A. General</b>						
	The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y				
	The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 33 Temp Pump Rounds scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y				

	The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y				
	In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y				
<b>B. Documents</b>						
	The Work shall consist of 33 Temp Pump Arounds Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:					
	1 Phase IV Submission for GMP Drawings - dated 12/21/2021	y				
	2 Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y				
	3 Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y				
	4 Phase IV Submission for GMP Specifications dated 12/21/2021	y				
	5 RFI Log dated - TBD	y				
	6 Specifications	y				
	- Division 00 - Procurement and Contracting Requirements (Complete)	y				
	- Division 01 - General Requirements (Complete)	y				
	Pump Around Logistics Plan Issued on Building Connected on 1.31.22	y				
<b>C. Inclusions</b>						
	<b>STANDARD REQUIREMENTS</b>					
	1 Includes Hoisting/Rigging/Scaffolding Required for your Work	y				
	2 Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y				
	3 Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y				
	4 Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y				
	5 Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y				
	6 Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y				
	7 Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y				
	8 All work performed shall be per governing codes	y				
	9 Include cost of all surveying and layout (baseline survey to be provided by others)	y				
	10 Include field measurement as required prior to fabrications	y				
	<b>SPECIFIC SCOPE ITEMS</b>					
	12 Provide a complete Pump Around System including rental costs( based on durations provided by Turner), installations, mobilizations, demobilizations, fueling, manitenance and servicing of the pumps, and teardown of the system. Assume Phase 1 (Box Culvert Work) has a two month duration and Phase 2 (Soldier Pile Walls and Concrete Channel Work) will require the Temp Pump Around system for two months.	y			y	
	13 Provide Pump Around at Culvert and Stream including, (2) 12" Storm Pump Around Sets and dam from North side of site all the way down to south side of the site, provide temorary water diversion dam and pond per sheet C2.0. Include maintenance and operation for this operation of pumping during culvert construction and stream construction. (1) 6" Pump may be used as the Primary Pump with the 12" lines activating based on Higher Water Pressure and Storm Conditions.	y			y	
	14 Comply with Pump Around Logistics Plan Issued on 1.31.22 AP-1	y			y	
	15 Provide pipe supports where the temporary discharge lines cross the stream as shown in the Pump Around Logistics Plan	y			y	

Sub: \_\_\_\_\_

P.A.: \_\_\_\_\_

16	Provide add alternate below to use (3) 12" Pump Around System ILO of (2) 12" Pump Around System based on the durations for Phases 1 and 2	y			n		
17	Provide Technician once per week for System Check (Phase 1: 4weeks, Ph2: 12Weeks)	y			n	\$3,300	UR
18	4 Week Rental Cost Phase 1	y			y	[16684]	UR
19	Complete Installation Cost Phase 1	y			y	[24,643]	UR
20	Complete Teardown Cost Phase 1	y			y	[12,384]	UR
21	Equipment Mobilization Phase 1	y			y	[1,010]	UR
22	4 Week Rental Cost Phase 2	y			y	[15493]	UR
23	Complete Installation Cost Phase 2	y			y	[29838]	UR
24	Complete Teardown Cost Phase 2	y			y	[17856]	UR
25	Complete Equipment Mobilization Phase 2	y			y	[295]	UR
26	Fuel Cost Phase 1	y				\$50,400	T
27	Fuel Cost Phase 2	y				\$50,400	T
28		y					
<b>D. Exclusions</b>							
1	Sawcut/demo asphalt on shirlington road to allow for burying of pipes for Temp Pump Around Work. Provide temp patching at this area is w/Wet Utilities	n					
2	Box culvert Removal and Replacement us w/Wet Utilities	n					
<b>E. Special Trade Requirements</b>							
1	% <b>UBE - Underutilized Business Enterprise</b> (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	_____%				
2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y					
3	Professional Liability Insurance (if delegated design requirements identified in scope)	y					
a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y					
b	Office Policy [ Or Project Specific)	y					
c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y					
<b>F. Schedule</b>							
	Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.						
1	Review and comply with Turner Schedule (AP-6)	y					
2	Duration for submittals and shop drawings, in working days	?					
3	Duration for fabrication and delivery, in working days	?					
4	Installation duration, in working days	?					
<b>Allowances</b>							
A	1	Fuel for Phase 1 Pumps	y				
A	2	Fuel for Phase 2 Pumps	y				
A	3						
	4						
	5						
						Yes/No -->	Yes
<i>Subcontractor Bid</i>						\$	150,014
<i>Total Adjustments</i>						\$	104,100
<b>Leveled Total Bid</b>						\$	<b>254,114</b>
						<b>LOW BID</b>	<b>1</b>
<b>G. Alternates</b>							

	The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.					
1	100% Payment & Performance Bonds on Turner Forms	y				
2	Provide add alternate for onsite WC and GL insurance	y				
3	Provide (3) 12" Pump Around System ILO of (2) 12" Pump Around System based on the durations for Phases 1 and 2	y				
<b>H. Unit Prices</b>						
	The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.					
1	Pump Service (Technician Once a Week System Check)	y			[250]	UR
2	Pump Watch (24Hr Shift)	y			[2158]	UR
3	Pump Watch (12Hr Shift)	y			[1293]	UR
4	4 Week Rental Cost for Phase 1 Pumps Past agreed duration of 4 Weeks	y			[16684]	UR
5	Weekly Rental Cost for Phase 1 Pumps Past agreed duration of 4 Weeks	y			[5562]	UR
6	Daily Rental Cost for Phase 1 Pumps Past agreed duration of 4 Weeks	y			[2781]	UR
7	4 Week Rental Cost for Phase 2 Pumps Past agreed duration of 3 Months	y			[15493]	UR
8	Weekly Rental Cost for Phase 2 Pumps Past agreed duration of 3 Months	y			[5165]	UR
9	Daily Rental Cost for Phase 2 Pumps Past agreed duration of 3 Months	y			[2391]	UR
10	Provide Fuel Burn Rate for 12" Pump	y			[14.3 GPH]	UR
11	Provide Fuel Burn Rate for 6" Pump	y			[6.7 GPH]	UR



<b>Kone Cranes</b>		KC
Mike Drust 804-895-8153 <a href="mailto:mike.drust@konecranes.com">mike.drust@konecranes.com</a>		
02/16/22		
<b>FULLY SCOPED</b>		
\$	66,455	
\$	-	0.0%
<b>\$</b>	<b>66,455</b>	

**41 Bridge Crane**

Project **Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**  
 Job # 20039  
 A/E Stantec Architecture Inc.  
 Bid Date 1/27/2022 @ NOON  
 AP1 Date 03/01/22  
 Est Scott Stevenson  
 Pro Johnnel Lanham  
 Ops Derek Brown  
 Estimator Abdullah Malik, ahmalik@tcco.com, 571-373-2798

**Legend**

y	INCLUDED
n	EXCLUDED
?	QUESTION
#	QUANTITY

A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
<b>Turner Construction Company's Environmental Health and Safety Program</b>								
1		Turner Construction Company's Environmental Health and Safety Program	y		y			
2		Includes compliance with Project Specific EH&S Plan/Safety Additional Provisions	y		y			
3		OSHA 30 hour class (1 person for contracts < \$5M, 2 for contracts > \$5M). Must be on-site 100% of the time.	y		y			
4		If sub has > 25 employees on site (incl. lower tiers) > 2 weeks, incl. full time Safety Manager for duration of period > 2 weeks.	y		y			
5		Breakout Cost for Full Time Safety Manager	y		y			
6		Include compliance with Ladders Last policy, Six Foot Fall Rule, and "Nothing Hits the Ground"	y		y			
7		Include Involvement with all Building L.I.F.E requirements ( including Daily Muster & Stretch & Flex)	y		y			
<b>Bid Acknowledgements</b>								
1		Turner Form 36 (07/31/20), Form 166 (07/31/20), Form 380 (07/31/20)	y		y			
<b>Contract Attachments</b>								
2		AP-1 Statement of Work dated 1/12/2022	y		y			
3		AP-2 Documents List dated 10/22/2021	y		y			
4		AP-3 Supplementary Provisions dated 1/14/2022	y		y			
5		AP-4 Logistics Plan dated 12/22/2021	y		y			
6		AP-5 BIM Requirements	y		y			
7		AP-6 Project Schedule - data date: 9/22/2021, print date: 9/22/2021	y		y			
8		AP-7 Equipment Coordination Matrix dated - TBD	y		y			
9		Insurance: Project is CCIP - do not include onsite General Liability and Workers Comp. Provide onsite WC and GL as an add alternate. Include all other applicable insurances.	y		y			
10		Include all Applicable Taxes (Provide Breakout Cost for Sales Tax)	y		y		[\$2,251]	
11		Bid valid for 90 days	y		n		15 days	
12		Retainage: 5%	y		y			
13		Liquidated Damages: <b>\$7,867.00/day</b> for each calendar day beyond Substantial Completion <b>and \$712.00 /day</b> for each calendar day beyond Final Project Completion	y		n			
14		LEED: LEED Silver; Project is striving for minimal environmental impact	y		y			
<b>Key Quantities and Breakouts (Populate Below)</b>								
1		Total Manhours	#					
2		Peak # of Workers anticipated	#					
3		Provide breakout of escalation costs	#					
4		# of Bridge Cranes	#		#	1		
<b>Subcontractors (Provide Name, Scope UBE % and Price \$)</b>								
1		What are sources of Labor included (Company workforce, Union hall, Subcontracted, 3rd Party Labor Provider)?	?		?	Company & Subcontracted		
2		Where do the materials come from?	?		?			
3		What is lead time for materials?	?		?	12-13 weeks		
4		Identify Major Subcontractors	?		?			
5		Provide ___% UBE (Underutilized Business Enterprise) participation. There is a <b>30% BU</b> UBE Participation Goal	?		?	0%		
<b>Prequalification</b>								
1		Current Prequalification Questionnaire on file or Submitted at time of Bid	?					
2		Turner Prequalification Number:	?					
3		Current Financial Statement (must be < 18 mos. old) on file or Submitted at time of bid	?					
4		Current NCCI Form of Evidence of Experience Modification Rate (EMR) on File or Submitted at time of Bid	?					
5		Current Experience Modification Rating (EMR) - must be 1.0 or below [or EMR Waiver required]:	?					
6		Provide Payment and Performance Bond Rate [Provide Rate: _____%]	?	EMR _____				
7		Include Payment and Performance Bond	n	_____%				

**AP-1 Statement of Work** **Kone Cranes** B1

**Arlington Regional Transit (ART) Operations and Maintenance Facility - AOMF**

**41 Bridge Crane**

03/01/22

y/n/Sub

0  
-

A.	General	Description	y/n	Sub	y/n	Text	Adjustments	Plug
		The Work as defined in Article I, includes but is not limited to the following description, which appears here as a general guideline and is not intended to represent each and every item necessary to perform the Work.	y		y			
		The Work shall be provided in strict accordance with the Contract Documents and shall include, but not be limited to, providing all labor, supervision, materials, engineering, tools, equipment, rigging, scaffolding, trade permits, applicable taxes, overhead expenses, warranties and guarantees to perform the complete 41 Bridge Crane scope as defined in this Statement of Work and as shown or described in the Contract Documents.	y		n		No Permits	
		The Scope Documents, the drawings, details, and specifications do not necessarily indicate or describe all work required for the full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated, the Subcontractor shall use all reasonable care to include those items necessary and/or implied, but not necessarily detailed on the Contract Documents, to provide a complete and functional system. This Subcontractor shall include all engineering, permits, design and shop drawing costs associated with the completion of this Statement of Work. In addition to this Statement of Work, this subcontractor shall include all costs associated with any and all other referenced documents, to include the Project Specific Requirements. Subcontractor is responsible for compliance with applicable local, county, state, federal and professional code requirements.	y		n		No Permits	
		In this Statement of Work, the term "provide" shall be defined as meaning "furnish and install."	y		y			
<b>B. Documents</b>								



A/Q	Item	Description	y/n	Sub Response	y/n	Text	Adjustments	Plug
		The Work shall consist of 41 Bridge Crane Scope and related work in accordance with the agreement between the Owner and Contractor, Project Drawings, Specifications and any addenda, all of which are prepared by Stantec Architecture Inc. and listed in the Additional Provisions AP-2, including without limitation the following:						
	1	Phase IV Submission for GMP Drawings - dated 12/21/2021	y		y			
	2	Phase IV Submission for GMP Parking Garage Drawings - dated 12/21/2021	y		y			
	3	Phase IV Submission for GMP Civil Drawings - dated 12/21/2021	y		y			
	4	Phase IV Submission for GMP Specifications dated 12/21/2021	y		y			
	5	RFI Round 1 Log distributed on 1/18/2022	y		n		N/A	
	6	RFI Round 2 Log distributed on 1/24/2022	y		n		N/A	
	7	RFI Round 3 Log distributed on 1/27/2022	y		n		N/A	
	8	RFI Round 4 Log not distributed	y		n		N/A	
	8	RFI Round 5 Log not distributed	y		n		N/A	
	9	<b>Specifications</b>	y		y			
		- Division 00 - Procurement and Contracting Requirements (Complete)	y		y			
		- Division 01 - General Requirements (Complete)	y		y			
		- 412213 - Cranes (Complete)	y		y			
	<b>C.</b>	<b>Inclusions</b>						
		<b>STANDARD REQUIREMENTS</b>						
	1	Includes Hoisting/Rigging/Scaffolding Required for your Work	y		y			
	2	Includes Daily Cleanup to Dumpster & daily trash recycling to recycling dumpsters	y		y			
	3	Include all Permits for work of your trade (cost of General Trades Building Permit by Others)	y		n		No Permits	
	4	Include all trade relative work in the Division One Specification. Temporary Facilities, etc.	y		y			
	5	Include all blocking, brackets, fixtures, shims, connections and other items necessary for a complete system	y		y			
	6	Include all cutting, coring, sleeving, & firestopping for penetrations relative to your trade for a complete system	y		y			
	7	Have Field conditions been investigated? No additional compensation will be allowed for work that could be viewed in the field.	y		n			
	8	All work performed shall be per governing codes	y		y			
	9	Include cost of all surveying and layout (baseline survey to be provided by others)	y		y			
	10	Include field measurement as required prior to fabrications	y		y			
		<b>SPECIFIC SCOPE ITEMS</b>						
	11	Provide turn key install for bridge crane with accessories and controls as indicated in contract documents.	y		y			
	12	Provide maintenance service, training and warranties as indicated in contract documents.	y		y			
	13	Provide coordination for a complete install of the bridge crane as defined in the contract documents.	y		y			
	14	Provide equipment labeling as defined in specification 412213.	y		y			
	15	Provide product by one of the following approved manufacturers: Abell-Howe <b>Kone Cranes (BOD)</b> Mannesman Demag R&M Materials Handling	y		y	Kone Cranes		
	16	<b>Confirm acceptance of ART Covid Policy dated 8.27.21</b>	y		y	confirmed via email		
	<b>D.</b>	<b>Exclusions</b>						
	1	Provide power to controls location of bridge crane, coordinate location of power with bridge crane contractor by electrical contractor	n		n			
	<b>E.</b>	<b>Special Trade Requirements</b>						
	1	% UBE - Underutilized Business Enterprise (Registered w/): Provide percentage (%) commitment included within bid for prime and lower tiers.	#	___%	n		n/a	
	2	Project is CCIP - Exclude GL and WC for Onsite Activities within project limit lines)	y		n		will provide cert of insurance	
	3	Professional Liability Insurance (if delegated design requirements identified in scope)	y		y			
	a	\$3,000,000 per occurrence/\$3,000,000 aggregate	y		y			
	b	Office Policy [ Or Project Specific)	y		y			
	c	Deductible amount - Not more than \$50,000 payable by Subcontractor	y		y			
	<b>F.</b>	<b>Schedule</b>						
		Subject to the provisions of this Agreement, the following shows durations and sequencing of the Work as it is presented in the Project Schedule.						
	1	Review and comply with Turner Schedule (AP-6)	y		y			
	2	Duration for submittals and shop drawings, in working days	?		?	10-15 days		
	3	Duration for fabrication and delivery, in working days	?		?	60 days		
	4	Installation duration, in working days	?		?	5 days		
	<b>G.</b>	<b>Alternates</b>						
		The following Alternate(s) may be accepted by Contractor at its sole discretion. If so exercised it will be confirmed by written change order to this Subcontract. "No Change" modifications do require a change order. The Alternate(s) noted herein are not part of the lump sum Contract Price. Inasmuch as these Alternate(s) were anticipated from the inception of the project and were priced accordingly to include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, insurance, taxes profit, bonds and escalation as necessary to prosecute the work. All Alternates shall remain firm throughout the duration of the project, unless specifically noted herein.						
	1	100% Payment & Performance Bonds on Turner Forms	y					
	2	Provide add alternate for onsite WC and GL insurance	y					
	<b>H.</b>	<b>Unit Prices</b>						
		The following Unit Price(s) are a part of this Subcontract and shall be used to adjust the Subcontract price for changes in work as directed by the Contractor in strict accordance with Contract Documents. These Unit Price(s) include ALL items of cost including, but not limited to, labor, materials, equipment, tools, supervision, jobsite and home office overhead, profit and all other necessary services and facilities to prosecute the work. Applicable quantities shall be based upon either (1) agreed upon estimates, or (2) actual measured in-place work. The net change to the Subcontract price, increased or decreased, shall represent net change to quantity multiplied by the applicable Unit Price.						
	1							
	2							

**General Requirements Detail****ART AOMF Facility**

23-Feb-22

**24 mo Construction Duration**

		QTY	UNIT	Unit Cost	TOTAL	Category	Genl Reqs 65XXX
							2
<b>XX100 TEMPORARY FACILITIES</b>							
<b>XX110 Tools &amp; Supplies</b>							
Misc Tools and Supplies		24	months	1,200	28,800	GR	28,800
<b>XX122 - Job Office Setup / Removal/ Alteration</b>							
Tool Shed for Labor		24	months	500	12,000	GR	12,000
Changing Facility for Labor		24	months	1,100	26,400	GR	26,400
<b>XX130 - Plant Rentals &amp; Equipment</b>							
Miscellaneous Rental Equipment (forklift in lieu of hoist)		14	months	6,500	91,000	GR	91,000
Miscellaneous Rental Equipment (sweeper)		6	months	1,800	10,800	GR	10,800
<b>XX140 - Temporary Buildings</b>							
Safety Pavilion / Break Area		1	LS	15,000	15,000	GR	15,000
<b>XX180 - Temp Stairs &amp; Ladders</b>							
Main Building - Temp Alum Stairs		6	risers	5,000	30,000	GR	30,000
<b>XX200 HOIST FACILITIES</b>							
<b>XX200 Material / Personnel Hoist Rental / Maintenance</b>							
Gate installation, opening prep (Fortlift Pen)		3	ea	3,000	9,000	GR	9,000
<b>XX210 - Hoist Operation</b>							
Operate Material Hoist (forklift)	Skilled Laborer	1,408	hr	\$60.03	84,522	GR	84,522
Operate Material Hoist - overtime	Skilled Laborer	141	hr	\$74.22	10,450	GR	10,450
<b>XX240 - Temp Elevator Install / Maintain / Operate</b>							
Temporary Entrances Protection	Carpenter	40	hr	\$66.81	2,672	GR	2,672
Cab Protection	Carpenter	120	hr	\$66.81	8,017	GR	8,017
Operate Temp Elevators	Skilled Laborer	1,038	hr	\$60.03	62,311	GR	62,311
Overtime operation	Skilled Laborer	104	hr	\$74.22	7,704	GR	7,704
<b>XX260 - Crane Rental / Maintenance / Operation</b>							
<b>XX310 Temp Pwr &amp; Light Install / Remove / Maintain / Use</b>							
Elect Current Charges		2,880,000	SF-MO	\$0	100,800	GR	100,800
Project GHG Metering (equip, installation, software, etc)		1	ls	15,000	15,000	GR	15,000
<b>XX320 Temp Toilets &amp; Plumb Install / Remove / Maintain / Use</b>							
Rental Toilets (1 toilet mo. Per 25 men)	10 Toilets	24	Months	2,080	49,920	GR	49,920
<b>Hand Washing Stations</b>							
		24	Months	940	22,560	GR	22,560
<b>XX400 CLEANING</b>							
<b>XX400 General Building / Glass Cleaning</b>							
Cleaning Labor Supervision - Laborer Foreman	Skilled Laborer - Fo	4,152	hr	\$60.03	249,245	GR	249,245
Cleaning Labor	Skilled Laborer	5,535	hr	\$58.28	322,580	GR	322,580
Cleaning material (brooms, carts etc.)		24	mo	500	12,000	GR	12,000
<b>XX410 Dirt Chutes / Rubbish Removal / Recycling</b>							
Trash Cart - Consumable		10	ea	500	5,000	GR	5,000
Trash Hopper - Consumable		1	ea	5,000	5,000	GR	5,000
Rubbish Removal		220	ea	500	110,000	GR	110,000
<b>XX430 Site &amp; Street Cleaning</b>							
<b>XX490 Final Cleaning</b>							
Final Cleaning - OMA		47,000	sf	0.45	21,150	GR	21,150
Final Cleaning - Garage		66,000	sf	0.25	16,500	GR	16,500
<b>XX500 General Protection &amp; Safety</b>							
Prot & safety labor (Carpenter)	Carpenter - Journey	1,038	hr	\$66.81	69,349	GR	69,349
<b>XX520 Sidewalk Bridges / Fences</b>							
Yodoks - Bridge Entrance		24	ea	500	12,000	GR	12,000
Sandbag Diversion downstream of Culvert - Labor	Skilled Laborer	448	hr	\$58.28	26,109	GR	26,109
Sandbag Diversion downstream of Culvert - Material		1,120	ea	\$17.00	19,040	GR	19,040
<b>XX550 Fire Watch / Rodent Control / Fire Extinguishers</b>							
Fire Extinguishers		40	ea	150	6,000	GR	6,000
Fire Extinguisher Recharge		40	ea	40	1,600	GR	1,600
<b>XX590 First Aid Facility</b>							
Jobsite First Aid		24	months	500	12,000	GR	12,000
<b>XX660 Progress Photos / Arial Photography</b>							
Job Progress Photos		25	mo	2,000	50,000	GR	50,000
Web Camera Monthly		24	mo	550	13,200	GR	13,200
Webcam and install		1	ea	7,200	7,200	GR	7,200
<b>XX670 Misc General Expense</b>							
Job Signs		6	ea	1,500	9,000	GR	9,000
Directional Signs		10	ea	500	5,000	GR	5,000
<b>XX688 Safety Events</b>							
Safety Recognition - 5 Worker Lunches		24	months	100	2,400	GR	2,400
Safety Recognition - Topping Out		1	ls	5,000	5,000	GR	5,000
<b>XX700 Field Engineering / Line &amp; Grade</b>							
Field Engineering	Level 1				210,901	GR	210,901
<b>XX710 Quality Control</b>							

**General Requirements Detail**

**ART AOMF Facility**

23-Feb-22

**24 mo Construction Duration**

		QTY	UNIT	Unit Cost	TOTAL	Category	Genl Reqs 65XXX
Quality Control Specialist	Level 1				277,713	GR	277,713
<b>XX720 MEPS</b>							
MEP QC General Req	Level 2				154,041	GR	154,041
QC Specialty	Level 4				360,895	GR	360,895
<b>XX730 Project Support Staff</b>							
Quality Control Coordination	Tom Bolka				25,791	GR	25,791
Schedule Coordination	Ken Lenta				26,295	GR	26,295
<b>XX780 Safety</b>							
Safety Specialist on Site	Safety L2				159,251	GR	159,251
<b>XX901 Consultant 1 - Scheduling</b>							
CPM Schedule setup		1	ea	15,000	15,000	GR	15,000
Updates		26	months	1,500	39,000	GR	39,000

Total General Requirements:            2,835,217                            2,835,217

Turner Construction Company, 11413 Isaac Newton  
Square, South Reston, Virginia 20190

**Turner**

Activity ID	Activity Name	Orig Dur	Start	Finish	2022												2023												2024											
					Apr	M	Jun	Jul	A	S	Oct	N	Dec	Jan	F	Mar	Apr	M	Jun	Jul	A	S	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	A	Sep	Oct	N	Dec			
<b>Arlington Transit Operations and Maintenance Facility (AOMF)</b>		974	30-Sep-20 A	01-Aug-24																																				
<b>Milestones</b>		934	30-Sep-20 A	01-Aug-24																																				
A1000	Notice to Proceed Design Phase Services	0	30-Sep-20 A																																					
A1350	NTP for CMAR for Preconstruction Services	0	25-Nov-20 A																																					
A1110	NTP for Schematic Design Phase	0	08-Jan-21 A																																					
A1150	NTP for Design Development Phase	0	10-Jun-21 A																																					
A1660	Obtain Approval for CMAR Construction Contract	63	04-Mar-22 A	31-May-22	Obtain Approval for CMAR Construction Contract																																			
A1190	NTP for Construction Document Phase	0	08-Apr-22		NTP for Construction Document Phase																																			
A1650	NTP for CMAR to Commence Construction	0	01-Jun-22*		NTP for CMAR to Commence Construction																																			
A2520	Start Stream Diversion & Double Box Culvert Installation	0	02-Aug-22		Start Stream Diversion & Double Box Culvert Installation																																			
A2550	Start Maintenance Building Structure	0	01-Nov-22		Start Maintenance Building Structure																																			
A2630	Start Garage Building Structure	0	16-Nov-22		Start Garage Building Structure																																			
A2530	Complete Stream Relocation & Double Box Culvert Installation	0	06-Jan-23		Complete Stream Relocation & Double Box Culvert Installation																																			
A2560	Complete Maintenance Building Structure	0		28-Apr-23	Complete Maintenance Building Structure																																			
A2640	Complete Garage Building Structure	0		09-Aug-23	Complete Garage Building Structure																																			
A2650	Complete Garage Building Dry In	0		30-Aug-23	Complete Garage Building Dry In																																			
A2660	Complete Garage Building MEP & Finishes	0		25-Oct-23	Complete Garage Building MEP & Finishes																																			
A2570	Complete Maintenance Building Dry In	0		03-Nov-23	Complete Maintenance Building Dry In																																			
A2710	Start Commissioning Activities (FPT)	0		23-Jan-24	Start Commissioning Activities (FPT)																																			
A2600	Complete Commissioning Activities	0		19-Mar-24	Complete Commissioning Activities																																			
A2580	Complete Maintenance Building MEP & Finishes	0		26-Mar-24	Complete Maintenance Building MEP & Finishes																																			
A2740	Owner Complete Move In & Training	0		01-Aug-24	Owner Complete Move In & Training																																			
A2750	ART O&M Facility Fully Operational	0		01-Aug-24	ART O&M Facility Fully Operational																																			
<b>Pre Construction</b>		796	30-Sep-20 A	17-Nov-23																																				
<b>Design Phase</b>		435	30-Sep-20 A	17-Jun-22																																				
A1040	Public Facilities Review Committee (PFRC) - Concepts from Public Engagement	5	04-Dec-20 A	10-Dec-20 A																																				
A1010	Public Engagement Meeting 1 - Review Concept Design	5	07-Dec-20 A	07-Dec-20 A																																				
A1020	Public Engagement Meeting 2 - Review Design Refinement	5	07-Dec-20 A	22-Sep-21 A	Review Design Refinement																																			
A1030	Public Engagement Meeting 3 - Review Design Refinement	5	07-Dec-20 A	07-Dec-20 A																																				
A1050	Public Facilities Review Committee (PFRC) - Schematic Design Review	5	17-May-21 A	21-May-21 A	Design Review																																			
A1060	Public Facilities Review Committee (PFRC) - Design Development Review	5	30-Aug-21 A	03-Sep-21 A	PFRC - Design Development Review																																			
<b>Phase 1 - Concept Design / Program Verification Phase</b>		45	30-Sep-20 A	03-Dec-20 A																																				
A1070	Kick off Meeting	10	30-Sep-20 A	13-Oct-20 A																																				
A1080	User Group Meetings	10	14-Oct-20 A	27-Oct-20 A																																				
A1090	Prepare & Submit Concept Design & Revised Program	20	28-Oct-20 A	24-Nov-20 A																																				
A1100	Project Officer Approval of Final Concept Design & Program	5	25-Nov-20 A	03-Dec-20 A																																				
<b>Phase 2 - Schematic Design Phase</b>		65	04-Dec-20 A	09-Mar-21 A																																				
A1120	Prepare & Submit Schematic Design	60	04-Dec-20 A	02-Mar-21 A																																				
A1130	Project Officer Approval of Schematic Design	5	03-Mar-21 A	09-Mar-21 A																																				
<b>Phase 3 - Design Development Phase</b>		85	10-Mar-21 A	08-Jul-21 A																																				
A1140	Prepare & Submit 50% Design Development Design	40	10-Mar-21 A	04-May-21 A																																				
A1160	50% Design Development Review	5	05-May-21 A	11-May-21 A																																				
A1170	Prepare & Submit 75% Design Development Design	40	05-May-21 A	30-Jun-21 A																																				
A1180	75% Design Development Review	5	01-Jul-21 A	08-Jul-21 A																																				
<b>Phase 4 - Construction Document Phase</b>		188	22-Sep-21 A	17-Jun-22																																				
A1200	Prepare & Submit 50% Construction Documents	20	22-Sep-21 A	19-Oct-21 A	Construction Documents																																			

█ Remaining Level of Effort    █ Critical Remainin...  
█ Actual Level of Effort    ◆ Milestone  
█ Actual Level of Effort  
█ Actual Work  
█ Remaining Work

### Arlington Transit Operations and Maintenance Facility (AOMF)



Activity ID	Activity Name	Orig Dur	Start	Finish	2022												2023												2024											
					Apr	M	Jun	Jul	A	S	Oct	N	Dec	Jan	F	Mar	Apr	M	Jun	Jul	A	S	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	A	Sep	Oct	N	Dec			
A1210	50% Construction Document Review	5	20-Oct-21 A	26-Oct-21 A	Review																																			
A1220	Prepare & Submit 75% Construction Documents	25	20-Oct-21 A	23-Nov-21 A	Construction Documents																																			
A1230	75% Construction Document Review	5	24-Nov-21 A	02-Dec-21 A	Document Review																																			
A1240	Prepare & Submit GMP Documents	27	24-Nov-21 A	05-Jan-22 A	Submit GMP Documents																																			
A1250	Prepare & Submit 90% Construction Documents	10	24-Nov-21 A	09-Dec-21 A	% Construction Documents																																			
A1260	Hold 90% On Board Progress Review & Coordination Meeting	3	10-Dec-21 A	14-Dec-21 A	Progress Review & Coordination Meeting																																			
A2210	Prepare & Submit - Permit Docs	5	06-Jan-22 A	11-Feb-22 A	& Submit - Permit Docs																																			
A1270	Prepare & Submit 100% Construction Documents	50	08-Apr-22	17-Jun-22	■ Prepare & Submit 100% Construction Documents																																			
A1280	Hold 100% Construction Document Review (two weeks prior to completion)	5	13-May-22	19-May-22	■ Hold 100% Construction Document Review (two weeks prior to completion)																																			
<b>Permit Phase</b>		203	14-Feb-22 A	20-Oct-22	■																																			
A2960	Submit & Obtain Building Permit	80	14-Feb-22 A	17-Jun-22	■ Submit & Obtain Building Permit																																			
A4390	Submit & Obtain - Stream Permit - Army Corp	65	25-Mar-22 A	23-Jun-22	■ Submit & Obtain - Stream Permit - Army Corp																																			
A4380	Submit & Obtain Site Civil Permit	46	08-Apr-22	13-Jun-22	■ Submit & Obtain Site Civil Permit																																			
A3930	Submit & Obtain - Soldier Pile Wall Permit	20	07-Jun-22	05-Jul-22	■ Submit & Obtain - Soldier Pile Wall Permit																																			
A2970	Submit SWPPP Notice to DEQ	10	14-Jun-22	27-Jun-22	■ Submit SWPPP Notice to DEQ																																			
A2990	Submit & Obtain Fuel Storage Permits	60	07-Jul-22	29-Sep-22	■ Submit & Obtain Fuel Storage Permits																																			
A2980	Submit & Obtain Generator Emissions Permit	60	28-Jul-22	20-Oct-22	■ Submit & Obtain Generator Emissions Permit																																			
<b>DVP, WGL, Arlington County Coordination</b>		20	08-Apr-22	05-May-22	■																																			
A4020	WGL Design/Approval of Cubes mart Relocation	20	08-Apr-22	05-May-22	■ WGL Design/Approval of Cubes mart Relocation																																			
<b>CMAR Preconstruction Phase</b>		442	25-Nov-20 A	24-Aug-22	■																																			
A1290	Prepare & Submit Detailed Concept Estimate w/ Constructability / Long Lead Study / VE	10	25-Nov-20 A	10-Dec-20 A	■																																			
A1330	Review Concept Estimate / Constructability / VE	5	11-Dec-20 A	17-Dec-20 A	■																																			
A1310	Prepare & Submit Detailed Schematic Estimate w/ Constructability / Long Lead Study / VE	20	03-Mar-21 A	07-Jun-21 A	■ Constructability / Long Lead Study / VE																																			
A1340	Review Schematic Estimate / Constructability / VE	5	03-Mar-21 A	07-Jun-21 A	■																																			
A1320	Prepare & Submit Detailed Design Development Estimate w/ Constructability / Long Lead Study / VE	30	01-Jul-21 A	22-Sep-21 A	■ Development Estimate w/ Constructability / Long Lead Study / VE																																			
A1300	Review Design Development Estimate / Constructability / VE	5	22-Sep-21 A	28-Sep-21 A	■ Estimate / Constructability / VE																																			
A1360	Prepare & Submit GMP	41	06-Jan-22 A	04-Mar-22 A	■ Prepare & Submit GMP																																			
A4090	Owner Review and Approve GMP	60	04-Mar-22 A	31-May-22	■ Owner Review and Approve GMP																																			
A4100	Owner Approve Early Packages	5	25-Apr-22*	29-Apr-22	■ Owner Approve Early Packages																																			
A3200	Notify Virginia Dept of Health of Abatement	25	10-May-22	14-Jun-22	■ Notify Virginia Dept of Health of Abatement																																			
A1370	Perform MEP Coordination	60	01-Jun-22	24-Aug-22	■ Perform MEP Coordination																																			
<b>Subcontractor Procurement &amp; Engineering</b>		429	15-Mar-22 A	17-Nov-23	■																																			
<b>Subcontractor / Supplier Award</b>		85	15-Mar-22 A	13-Jul-22	■																																			
A3870	Release - Soldier Pile Wall Subcontract	1	15-Mar-22 A	15-Mar-22 A	■ Release - Soldier Pile Wall Subcontract																																			
A3330	Release - Site Utilities Subcontract	2	02-May-22*	03-May-22	■ Release - Site Utilities Subcontract																																			
A3270	Release - Elevator Subcontract	5	01-Jun-22	07-Jun-22	■ Release - Elevator Subcontract																																			
A3280	Release - Mechanical/Plumbing Subcontract	5	01-Jun-22	07-Jun-22	■ Release - Mechanical/Plumbing Subcontract																																			
A3310	Release - Earthwork Subcontract	5	01-Jun-22	07-Jun-22	■ Release - Earthwork Subcontract																																			
A3320	Release Stream Restoration Subcontract	5	01-Jun-22	07-Jun-22	■ Release Stream Restoration Subcontract																																			
A3390	Release - CIP Concrete Subcontract	5	01-Jun-22	07-Jun-22	■ Release - CIP Concrete Subcontract																																			
A3830	Release - Agg Piers Subcontract	5	01-Jun-22	07-Jun-22	■ Release - Agg Piers Subcontract																																			
A4130	Release - Roofing Subcontractor	5	01-Jun-22	07-Jun-22	■ Release - Roofing Subcontractor																																			
A4190	Release - MEP Equipment Supplier	5	01-Jun-22	07-Jun-22	■ Release - MEP Equipment Supplier																																			
A4230	Release - Glazing Subcontract	5	01-Jun-22	07-Jun-22	■ Release - Glazing Subcontract																																			
A4270	Release - Arch Precast	5	01-Jun-22	07-Jun-22	■ Release - Arch Precast																																			

■ Remaining Level of Effort    ■ Critical Remainin...  
■ Actual Level of Effort    ◆ Milestone  
  Actual Level of Effort  
  Actual Work  
  Remaining Work

### Arlington Transit Operations and Maintenance Facility (AOMF)





Activity ID	Activity Name	Orig Dur	Start	Finish	2022												2023												2024											
					Apr	M	Jun	Jul	A	S	Oct	N	Dec	Jan	F	Mar	Apr	M	Jun	Jul	A	S	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	A	Sep	Oct	N	Dec	an		
A4180	F&D - ERU	150	15-Jun-22	18-Jan-23	F&D - ERU																																			
A3660	F&D - Stream Diversion Material	20	29-Jun-22	27-Jul-22	F&D - Stream Diversion Material																																			
A3630	F&D - Long Lead Plumbing Equipment	40	07-Jul-22	31-Aug-22	F&D - Long Lead Plumbing Equipment																																			
A3730	F&D - Cast in Place Concrete Materials	15	07-Jul-22	27-Jul-22	F&D - Cast in Place Concrete Materials																																			
A4110	F&D - TPO Roofing / Rigid ISO Insull	240	07-Jul-22	15-Jun-23	F&D - TPO Roofing / Rigid ISO Insull																																			
A3680	F&D - Maintenance Pits	30	14-Jul-22	24-Aug-22	F&D - Maintenance Pits																																			
A3720	F&D - Shop Equipment	40	14-Jul-22	08-Sep-22	F&D - Shop Equipment																																			
A4070	F&D - Soldier Piles	30	20-Jul-22	30-Aug-22	F&D - Soldier Piles																																			
A3640	F&D - Long Lead Electrical Equipment	17	28-Jul-22	19-Aug-22	F&D - Long Lead Electrical Equipment																																			
A3690	F&D - Lube System	30	28-Jul-22	08-Sep-22	F&D - Lube System																																			
A3700	F&D - Vehical Equipment	100	28-Jul-22	19-Dec-22	F&D - Vehical Equipment																																			
A3710	F&D - Fleetwatch System	30	28-Jul-22	08-Sep-22	F&D - Fleetwatch System																																			
A3740	F&D - Structural Steel	40	28-Jul-22	22-Sep-22	F&D - Structural Steel																																			
A3750	F&D - Miscellaneous Metals	30	28-Jul-22	08-Sep-22	F&D - Miscellaneous Metals																																			
A3760	F&D - Fire Protection Equipment & Materials	20	28-Jul-22	24-Aug-22	F&D - Fire Protection Equipment & Materials																																			
A4140	F&D - Metal Deck	80	28-Jul-22	17-Nov-22	F&D - Metal Deck																																			
A3620	F&D - Long Lead Mechanical Equipment	60	04-Aug-22	27-Oct-22	F&D - Long Lead Mechanical Equipment																																			
A4210	F&D - Curtainwall / Storefront	60	04-Aug-22	27-Oct-22	F&D - Curtainwall / Storefront																																			
A4240	F&D - Storeront Doors	130	04-Aug-22	08-Feb-23	F&D - Storeront Doors																																			
A4430	F&D - DFH	80	04-Aug-22	28-Nov-22	F&D - DFH																																			
A3610	F&D- Elevators	130	01-Sep-22	08-Mar-23	F&D- Elevators																																			
A4250	F&D - Arch Precast (Garage)	70	23-Sep-22	04-Jan-23	F&D - Arch Precast (Garage)																																			
A3770	F&D - Balance of Equipment & Material	80	07-Oct-22	01-Feb-23	F&D - Balance of Equipment & Material																																			
A4310	F&D - Anchorblock Wall	20	07-Oct-22	03-Nov-22	F&D - Anchorblock Wall																																			
A4350	F&D - Metal Wal Panels - Garage	40	28-Aug-23	23-Oct-23	F&D - Metal Wal Panels - Garage																																			
A4320	F&D - Metal Wal Panels - OAMF	40	25-Sep-23	17-Nov-23	F&D - Metal Wal Panels - OAMF																																			
<b>Construction</b>		<b>539</b>	<b>20-Jun-22</b>	<b>01-Aug-24</b>																																				
<b>Excavation &amp; Sitework</b>		<b>332</b>	<b>20-Jun-22</b>	<b>09-Oct-23</b>																																				
A1380	Mobilize & Secure Site	10	20-Jun-22	01-Jul-22	Mobilize & Secure Site																																			
A1390	Perform Initial Stakeout	5	05-Jul-22	11-Jul-22	Perform Initial Stakeout																																			
A2540	Relocate Dominion Power (by Dominion Power)	20	05-Jul-22	01-Aug-22	Relocate Dominion Power (by Dominion Power)																																			
A1400	Install Erosion & Sediment Controls	10	12-Jul-22	25-Jul-22	Install Erosion & Sediment Controls																																			
A1420	Obtain Clean Letter	10	12-Jul-22	25-Jul-22	Obtain Clean Letter																																			
<b>Parcel A Maintenance Bldg Excavation &amp; Sitework</b>		<b>307</b>	<b>26-Jul-22</b>	<b>09-Oct-23</b>																																				
A1440	Perform Site Demolition & Initial Grading Parcel A	20	26-Jul-22	22-Aug-22	Perform Site Demolition & Initial Grading Parcel A																																			
A2430	Install San Manhole F - Tie-Into Existing 42" San Line	16	19-Aug-22	12-Sep-22	Install San Manhole F - Tie-Into Existing 42" San Line																																			
A4010	CubSMART WGL gas line Relocation	5	23-Aug-22	29-Aug-22	CubSMART WGL gas line Relocation																																			
A1450	Install Sanitary Sewer Manhole from F to H	20	13-Sep-22	10-Oct-22	Install Sanitary Sewer Manhole from F to H																																			
A2040	Install Stormtech outlet structure and tie to existing pipe	10	26-Sep-22	07-Oct-22	Install Stormtech outlet structure and tie to existing pipe																																			
A2000	Build Redi Rock Wall (South, Part 2)	10	10-Oct-22	21-Oct-22	Build Redi Rock Wall (South, Part 2)																																			
A1630	Establish Building Pad Parcel A	5	11-Oct-22	17-Oct-22	Establish Building Pad Parcel A																																			
A1520	Build Anchorblock Retaining wall (South, part 1)	15	04-Nov-22	28-Nov-22	Build Anchorblock Retaining wall (South, part 1)																																			
A1470	Install RCP Storm Sewer (858 lf)	25	21-Nov-22	28-Dec-22	Install RCP Storm Sewer (858 lf)																																			
A1580	Build Anchorblock Retaining Wall (West)	15	29-Nov-22	19-Dec-22	Build Anchorblock Retaining Wall (West)																																			
A1540	Install Primary Duct Bank & T-frmer	5	06-Dec-22	12-Dec-22	Install Primary Duct Bank & T-frmer																																			
A1980	Build Redi Rock Wall (East)	20	20-Dec-22	18-Jan-23	Build Redi Rock Wall (East)																																			
A1530	Install Water & Fire Line (261 f)	25	29-Dec-22	02-Feb-23	Install Water & Fire Line (261 f)																																			
A2010	Install Secondary Duct Bank & Light Pole Bases	10	29-Dec-22	12-Jan-23	Install Secondary Duct Bank & Light Pole Bases																																			

■ Remaining Level of Effort    ■ Critical Remainin...  
■ Actual Level of Effort    ◆ Milestone  
■ Actual Level of Effort  
■ Actual Work  
■ Remaining Work

### Arlington Transit Operations and Maintenance Facility (AOMF)











