



Notice of Addendum No.1

Date of Addendum No.1: March 09, 2023

**Arlington Public Schools
Procurement Office**

Invitation to Bid 95FY23

Invitation to Bid Title: Barcroft Elementary School HVAC Replacement Project

Invitation to Bid Number: 95FY23

Invitation to Bid Issue Date: February 28, 2023

Pre-Bid Conference: March 8, 2023, at 11:00 A.M

Bid Closing Date/Time: March 24, 2023, No Later Than 11:59 P.M. (Local Prevailing Time)

Bid Opening Date/Time: March 27, 2023, at 10:00 A.M. (Local Prevailing Time)

Procurement Office Representative: Brandon Christian, VCA Senior Procurement Specialist (703) 228-7649 brandon.christian@apsva.us

Modifications to the ITB: Addendum No.1 to ITB 95FY23 updates the Bid Form and modification is provided with the execution of Addendum No.1. Edits to the Bid Form are adopted through highlights in Red for additions and a revised version of this section is provided with the execution of Addendum No.1.

A. **Clarifications:**

Updates to the Specifications and Drawings are provided to help Bidders submit a Bid in response to ITB 95FY23. Any updates to Specifications and Drawings for this Project will be available electronically as PDF file format by the Owner’s Representative (Architect), CMTA. To access updated Drawings and Specifications, please contact Owner’s Representative (Architect), Brice Watson via email at BWatson@cmta.com.

No.	Contract Document Reference	Revised Drawing or Specification Attachment Issued	Revisions Narrative
1	01 2100 ALLOWANCES	Attachment A	Allowances Added for 1. Sealing Existing Above Ceiling Penetrations, 2. Interior Room Signage, 3. Replace Leaking or Damaged Sprinkler Piping, and 4. Relocation of Existing Sprinkler Heads.
2	F-100, F101		DELETE drawing note, “DASHED LINE INDICATES AREA WHERE EXISTING SPRINKLER SYSTEM SHALL BE COMPLETELY MODIFIED TO MATCH THE NEW

		<p>ARCHITECTURAL FLOOR AND CEILING PLANS AND TO COORDINATE WITH NEW DUCTWORK AND PIPING ABOVE CEILING. ALL PIPING FOUND TO BE LEAKING OR DAMAGED SHALL BE REMOVED AND REPLACED.”</p> <p>REPLACE note with, "DASHED LINE INDICATES AREA WHERE EXISTING SPRINKLER SYSTEM MAY NEED TO BE MODIFIED TO MATCH THE NEW ARCHITECTURAL FLOOR AND CEILING PLANS AND TO COORDINATE WITH NEW DUCTWORK AND PIPING ABOVE CEILING. THE INTENT IS TO LEAVE EXISTING SPRINKLER HEADS IN THEIR EXISTING LOCATION TO THE EXTENT POSSIBLE AND ADD NEW SPRINKLER HEADS TO ACCOMMODATE NEWLY CONSTRUCTED HEAT PUMP CLOSETS. CONTRACTOR SHALL INCLUDE COSTS IN THEIR BASE BID FOR PROVIDING NEW SPRINKLER HEADS, INCLUDING BRANCH PIPING, HANGERS, SUPPORTS, FITTINGS, AND ESCUTCHEONS AT THE HEAT PUMP CLOSETS. POTENTIAL WORK REQUIRED TO RELOCATE EXISTING SPRINKLER HEADS WILL BE PERFORMED VIA ALLOWANCE. REFERENCE SPECIFICATION SECTION 01 2100 - ALLOWANCES.”</p>
3	F-100, F101	<p>DELETE drawing note, “SPRINKLERS SHALL BE “TURNED UP” WHERE EXISTING CEILING ARE REMOVED TEMPORARILY.”</p> <p>REPLACE note with, "SHOULD THE CONTRACTOR ELECT TO LEAVE THE CORRIDOR CEILINGS OUT WHILE SCHOOL IS IN SESSION, SPRINKLERS SHALL BE "TURNED UP" AS REQUIRED BY THE AHJ. CEILINGS MUST BE INSTALLED IN CLASSROOMS WHILE SCHOOL IS IN SESSION.”</p>
4	F-100, F101	<p>ADD drawing note “SALVAGE AND REINSTALL ALL EXISTING SPRINKLER ESCUTCHEON PLATES. MISSING OR DAMAGED ESCUTCHEONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE.”</p>
5	F-100	<p>DELETE drawing note, “SPRINKLER RUNOUTS IN ADMIN AREA SHOW SOME LEAKAGE AND DAMAGE DUE TO DISIMILAR METALS AT UNIONS. ALL LINES FOUND TO BE LEAKING, SHOWING RUST AND CORROSION, OR OTHERWISE DAMAGED SHALL BE REPLACED.”</p> <p>REPLACE note with, "IMMEDIATELY AFTER EXISTING CEILING SYSTEMS ARE DEMOLISHED, CONTRACTOR SHALL SURVEY EXISTING ABOVE CEILING SPRINKLER PIPING AND REPORT IN WRITING TO THE OWNER OR OWNER'S REPRESENTATIVE ANY LEAKING OR DAMAGED PIPING. ANY SPRINKLER PIPING FOUND TO BE LEAKING OR DAMAGED SHALL BE REMOVED AND REPLACED VIA ALLOWANCE. REFERENCE SPECIFICATION SECTION 01 2100 - ALLOWANCES.”</p>

6	E-001		<p>DELETE drawing note “ALL FIRE ALARM, VOICE, DATA AND INTERCOM SYSTEMS SHALL BE PRE AND POST TESTED BY OWNER. THE OWNER WILL NOTIFY THE CONTRACTOR OF THE TEST DATES AND ALLOW THEM TO WITNESS THE TESTING. REPORTS WILL BE GENERATED BY THE OWNER FOR THE FIRE ALARM AND INTERCOM SYSTEMS.”</p> <p>REPLACE note with “ALL FIRE ALARM, VOICE, DATA AND INTERCOM SYSTEMS SHALL BE PRE AND POST TESTED BY OWNER. THE OWNER WILL NOTIFY THE CONTRACTOR OF THE TEST DATES AND ALLOW THEM TO WITNESS THE TESTING. REPORTS WILL BE GENERATED BY THE OWNER FOR THE FIRE ALARM, VOICE, DATA AND INTERCOM SYSTEMS.”</p>
7	E-100		<p>DELETE drawing note “CAFETERIA AND KITCHEN LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.”</p> <p>REPLACE note with “CAFETERIA AND KITCHEN LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”</p>
8	E-100		<p>DELETE drawing note “GYM LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.”</p> <p>REPLACE note with “GYM LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”</p>
9	E-101		<p>DELETE drawing note “MEDIA CENTER LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.”</p> <p>REPLACE note with “MEDIA CENTER LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”</p>
10	E-100 E-101 E-110 E-111 E-120		<p>DELETE GENERAL NOTES (DEMOLITION) drawing note “K, CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.”</p> <p>REPLACE note with” K. CONTRACTOR SHALL SEAL ALL ABANDONED AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO</p>

			ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.”
11	E-100 E-101 E-110 E-111 E-120		DELETE GENERAL NOTES (DEMOLITION) drawing note “O. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.” REPLACE note with “O. REMOVAL OF ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED BY THERS, NOT IN CONTRACT. COORDINATE WITH OWNER.”
12	E-200		DELETE drawing note “CAFETERIA AND KITCHEN LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” REPLACE note with “CAFETERIA AND KITCHEN LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
13	E-200		DELETE drawing note “GYM LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” REPLACE note with “GYM LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
14	E-201		DELETE drawing note “MEDIA CENTER LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” REPLACE note with “MEDIA CENTER LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
15	23 09 00 Temperature Control and Sequence of Operations for HVAC		DELETE Part 22- Refrigerant Monitoring System, Not in Contract
16	M-501		VARIABLE VOLUME DAMPER DELETE “ZONE UNOCCUPIED OVERRIDE:A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.”
17	M-502		WATER SOURCE HEAT PUMP DELETE “ZONE UNOCCUPIED OVERRIDE:A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.”

18	M-504		DOMESTIC WATER HEATER PIPING SCHEMATIC REVISE Temperature to Kitchen from 140 to 120. ADD Second Tour and Anderson Electronic Tempering Valve requirement on on “To Kitchen” supply line.
19	01 3200		Incorrect footer. DELETE “SCOPE OF THE FIRE SUPPRESSION WORK 21 0501” REPLACE with “CONSTRUCTION PROGRESS DOCUMENTATION 01 3200”
20	01 5000		Incorrect footer. DELETE “SCOPE OF THE FIRE SUPPRESSION WORK 21 0501” REPLACE with “TEMPORARY FACILITIES AND CONTROLS GENERAL”
21	Preliminary Project Schedule	Attachment B	A preliminary project schedule is being provided for informational purposes only. Reference Specification 01 3200 Part 3 for Project Schedule Requirements.
22	Draft Submittal Registry	Attachment C	A draft Submittal Registry is being provided for informational purposes only. Reference Specification 01 3300 Part 1.3 for submittal schedule requirements.

Attachment A: 01 21 00 - ALLOWANCES

Attachment B: Barcroft Preliminary Project Schedule 030823

Attachment C: Barcroft Draft Submittal Registry

SECTION 01 2100 – ALLOWANCES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
 - 1. Bidders shall include defined allowance dollar amounts in their Base Bid Lump Sum as stated in this Specification Section. The intent of these Contract Allowances is to allow the Owner to have access to encumbered funds as required to direct the Contractor to perform work immediately in the field upon discovery of unforeseen conditions, upon direction by a code official for work that could not reasonable be inferred, or necessary work that is not fully designed and incorporated into the contract documents prior to contract award.
 - 2. Allowances are defined in the Schedule of Allowances at the end of this Specification Section.
- B. Types of allowances include the following:
 - 1. Lump Sum allowances.

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise the Construction Manager and Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At the Construction Manager's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.4 SUBMITTALS

- A. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.5 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.6 LUMP SUM ALLOWANCES

A. General

1. Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
2. If requested by the Owner or Construction Manager, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.
3. Allowance shall include cost to the Contractor of specific products and materials ordered by Owner or selected by Construction Manager / Architect under allowance and shall include taxes, insurance, bonds, overhead and profit, freight, and delivery to Project site.
4. Owner has the right to utilize the encumbered dollars that remain in any Allowance line items in any Contractors' Payment Application Schedule of Values. If approved by the Owner, any Allowance line item may be utilized to perform changes in the work in lieu of an executed change order, but only if verbally approved by the Owner & directed in writing by the Construction Manager, and only if the cost of the requested work does not exceed the value of the Allowance line item dollar amount (or cumulatively the total dollar amount of all allowances) that remains unused at the time the written direction is provided.
5. If for any reason the Owner does not require the use of any portion of any Allowance, the dollars not utilized will be credited back to the Owner via Change Order prior to Final Payment.

B. Lump Sum Allowance

1. Contractor is required to provide the cost of all Lump Sum Allowances, as part of the Base Bid Lump Sum, under the heading "Lump Sum Allowance" in their Schedule of Values.
2. This allowance is intended to minimize the impacts to the work due to unforeseen conditions, code official mandates, or revisions/additions by the Owner.
3. The allowance shall not be used without written approval from the Owner or Construction Manager.
4. Contractor shall provide daily work tickets to the Construction Manager for signature. No payment for work performed under the Lump Sum Allowance will be made without signed tickets.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation installations to ensure that each allowance with related work.

3.3 SUBMITTALS FOR PAYMENT

- A. Contractor shall invoice for "Allowance" items through periodic applications for payment as Work progresses. Submit payment application with the appropriate dollar amount on the appropriate line item in the application for that allowance.
- B. Submit daily extra work ticket stating the allowance number under which the work was

performed, signed by a CM representative, with the draft payment application on which the specific line item is being billed.

1. If the daily work ticket was submitted & approved for work under a Unit Rate Allowance, the number of units must be stated on the ticket presented for CM signature, and payment will only be made for the number of units on the ticket(s).
2. If the ticket was submitted and approved for any other Allowance usage and is for Time & Materials work, ticket shall be accompanied by actual material & equipment receipts/invoices, and number of man-hours for each type of worker, number of equipment hours, and all material quantities must be stated on the ticket presented for CM signature.

3.4 SCHEDULE OF ALLOWANCES

- A. Contractor shall include cash amounts in the Base Bid Lump Sum for each item of the following Schedule of Allowances.
- B. Lump Sum Schedule of Allowances:
 1. **Sealing Existing Above Ceiling Penetrations:** Regarding Floor Plan General Note #15 on Contract Drawings A111, A112, A121, and A122, "Seal all existing and new penetrations in corridor and stair walls with acoustic sealant" and General Note #1 on Contract Drawings M-211, M-212, M-221, and M-212, the Contractor shall include in their Base Bid the cost to seal all new penetrations and an allowance amount to seal existing penetrations. The allowance amount the Contractor shall include to seal existing penetrations is **\$10,000.00**.
 2. **Interior Room Signage:** Provide interior room signage at newly constructed heat pump closets. Product materials and installation method of signage shall match existing interior room signage. Contractor shall include **\$10,000.00** in their Base Bid for this allowance.
 3. **Replace Leaking or Damaged Sprinkler Piping:** Immediately after existing ceiling systems are demolished, Contractor shall survey existing above ceiling sprinkler piping and report in writing to the Owner or Owner's Representative any leaking or damaged sprinkler piping. Any necessary repairs shall be performed in accordance with all applicable NFPA, State, and Local Codes. Contractor shall include **\$25,000** in their Base Bid for this allowance. The Contractor is to include the cost to perform the abovementioned survey in their Base Bid.
 4. **Relocation of Existing Sprinkler Heads:** Provide relocation of existing sprinkler heads including branch piping, hangers, supports, fittings, and escutcheons where existing heads conflict with newly installed partitions, ductwork, piping, light fixtures, or ceilings. Work shall be performed in accordance with all applicable NFPA, State, and Local Codes. Contractor shall include **\$25,000** in their Base Bid for this allowance.

END OF SECTION

Arlington Public Schools		Barcroft Elementary School					Data Date: 08-Mar-23																																																			
Activity ID	Activity Name	Orig Dur	Rem Dur	Start	Finish	Total Float	2023												2024												2025												2026															
							F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A													
Barcroft Elementary School																																																										
Permitting																																																										
DES-1015	BUILDING PERMIT SUBMITTAL	0d	0d	27-Feb-23 A	26-Aug-24	0d	◆ BUILDING PERMIT SUBMITTAL																																																			
DES-1090	BUILDING PERMIT 1ST SUBMISSION REVIEW BY ARLINGTON COUNTY	15d	8d	27-Feb-23 A	17-Mar-23	4d	■ BUILDING PERMIT 1ST SUBMISSION REVIEW BY ARLINGTON COUNTY																																																			
DES-1100	A/E TEAM ADDRESSES 1ST SUBMISSION REVIEW COMMENTS AND RESUBMITS	5d	5d	20-Mar-23	24-Mar-23	4d	■ A/E TEAM ADDRESSES 1ST SUBMISSION REVIEW COMMENTS AND RESUBMITS																																																			
DES-1110	BUILDING PERMIT 2ND SUBMISSION REVIEW BY ARLINGTON COUNTY	10d	10d	27-Mar-23	07-Apr-23	4d	■ BUILDING PERMIT 2ND SUBMISSION REVIEW BY ARLINGTON COUNTY																																																			
DES-1120	A/E TEAM ADDRESSES 2ND SUBMISSION REVIEW COMMENTS AND RESUBMITS	5d	5d	10-Apr-23	14-Apr-23	4d	■ A/E TEAM ADDRESSES 2ND SUBMISSION REVIEW COMMENTS AND RESUBMITS																																																			
DES-1130	BUILDING PERMIT 3RD SUBMISSION REVIEW AND APPROVAL BY ARLINGTON COUNTY	5d	5d	17-Apr-23	21-Apr-23	4d	■ BUILDING PERMIT 3RD SUBMISSION REVIEW AND APPROVAL BY ARLINGTON COUNTY																																																			
Contractor Procurement																																																										
DES-1010	ISSUE INVITATION TO BID	0d	0d	27-Feb-23 A			◆ ISSUE INVITATION TO BID																																																			
DES-1020	BIDDING PERIOD	20d	13d	27-Feb-23 A	24-Mar-23	0d	■ BIDDING PERIOD																																																			
DES-1035	BID OPENING 3/27	0d	0d	27-Mar-23		0d	◆ BID OPENING 3/27																																																			
DES-1040	DETERMINE LOWEST RESPONSIVE AND RESPONSIBLE BIDDER	5d	5d	27-Mar-23	31-Mar-23	4d	■ DETERMINE LOWEST RESPONSIVE AND RESPONSIBLE BIDDER																																																			
DES-1045	PREPARE MATERIAL FOR SCHOOL BOARD	9d	9d	27-Mar-23	06-Apr-23	0d	■ PREPARE MATERIAL FOR SCHOOL BOARD																																																			
DES-1050	SCHOOL BOARD MEETING (INFORMATION)	1d	1d	13-Apr-23	13-Apr-23	0d	■ SCHOOL BOARD MEETING (INFORMATION)																																																			
DES-1055	SCHOOL BOARD MEETING (ACTION)	1d	1d	27-Apr-23	27-Apr-23	0d	■ SCHOOL BOARD MEETING (ACTION)																																																			
DES-1060	AWARD AND EXECUTE CONTRACT	15d	15d	28-Apr-23	18-May-23	0d	■ AWARD AND EXECUTE CONTRACT																																																			
DES-1075	CONTRACTOR NOTICE TO PROCEED	0d	0d	18-May-23		0d	◆ CONTRACTOR NOTICE TO PROCEED																																																			
DES-1080	GC ISSUE LOI / EXECUTE SUBCONTRACTS	5d	5d	18-May-23	24-May-23	0d	■ GC ISSUE LOI / EXECUTE SUBCONTRACTS																																																			
Material Procurement																																																										
Submittals																																																										
SUB-1000	SUBMIT HVAC DUCTWORK	10d	10d	25-May-23	05-Jun-23	1d	■ SUBMIT HVAC DUCTWORK																																																			
SUB-1010	SUBMIT KNOCK DOWN DOOR FRAMES	10d	10d	25-May-23	05-Jun-23	1d	■ SUBMIT KNOCK DOWN DOOR FRAMES																																																			
SUB-1020	SUBMIT HYDRONIC PIPING	10d	10d	25-May-23	05-Jun-23	1d	■ SUBMIT HYDRONIC PIPING																																																			
SUB-1030	SUBMIT DOORS AND HARDWARE	10d	10d	25-May-23	05-Jun-23	0d	■ SUBMIT DOORS AND HARDWARE																																																			
SUB-1040	SUBMIT HVAC ROOFTOP UNITS	15d	15d	25-May-23	10-Jun-23	13d	■ SUBMIT HVAC ROOFTOP UNITS																																																			
SUB-1050	SUBMIT COOLING TOWER	15d	15d	25-May-23	10-Jun-23	74d	■ SUBMIT COOLING TOWER																																																			
SUB-1060	SUBMIT HEAT PUMPS	15d	15d	25-May-23	10-Jun-23	57d	■ SUBMIT HEAT PUMPS																																																			
SUB-1070	SUBMIT CONDENSATE PUMPS	15d	15d	25-May-23	10-Jun-23	57d	■ SUBMIT CONDENSATE PUMPS																																																			
SUB-1080	SUBMIT BOILERS	15d	15d	25-May-23	10-Jun-23	74d	■ SUBMIT BOILERS																																																			
SUB-1090	SUBMIT STRUCTURAL STEEL SUPPORTS	10d	10d	21-Jun-23	01-Jul-23	271d	■ SUBMIT STRUCTURAL STEEL SUPPORTS																																																			
Review and Approval																																																										
REV-1000	REVIEW AND APPROVE HVAC DUCTWORK	7d	7d	06-Jun-23	14-Jun-23	1d	■ REVIEW AND APPROVE HVAC DUCTWORK																																																			
REV-1010	REVIEW AND APPROVE KNOCK DOWN DOOR FRAMES	7d	7d	06-Jun-23	14-Jun-23	1d	■ REVIEW AND APPROVE KNOCK DOWN DOOR FRAMES																																																			
REV-1020	REVIEW AND APPROVE HYDRONIC PIPING	7d	7d	06-Jun-23	14-Jun-23	1d	■ REVIEW AND APPROVE HYDRONIC PIPING																																																			
REV-1030	REVIEW AND APPROVE DOORS AND HARDWARE	7d	7d	06-Jun-23	14-Jun-23	0d	■ REVIEW AND APPROVE DOORS AND HARDWARE																																																			
REV-1040	REVIEW AND APPROVE HVAC ROOFTOP UNITS	7d	7d	12-Jun-23	20-Jun-23	11d	■ REVIEW AND APPROVE HVAC ROOFTOP UNITS																																																			
REV-1050	REVIEW AND APPROVE COOLING TOWER	7d	7d	12-Jun-23	20-Jun-23	62d	■ REVIEW AND APPROVE COOLING TOWER																																																			
REV-1060	REVIEW AND APPROVE HEAT PUMPS	7d	7d	12-Jun-23	20-Jun-23	48d	■ REVIEW AND APPROVE HEAT PUMPS																																																			
REV-1070	REVIEW AND APPROVE CONDENSATE PUMPS	7d	7d	12-Jun-23	20-Jun-23	48d	■ REVIEW AND APPROVE CONDENSATE PUMPS																																																			
REV-1080	REVIEW AND APPROVE BOILERS	7d	7d	12-Jun-23	20-Jun-23	62d	■ REVIEW AND APPROVE BOILERS																																																			
REV-1090	REVIEW AND APPROVE STRUCTURAL STEEL SUPPORTS	5d	5d	03-Jul-23	10-Jul-23	221d	■ REVIEW AND APPROVE STRUCTURAL STEEL SUPPORTS																																																			

- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

Preliminary Project Schedule (Not for Construction)



Activity ID	Activity Name	Orig Dur	Rem Dur	Start	Finish	Total Float	2023												2024												2025												2026											
							F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A									
Fabrication and Delivery																																																						
FAB-0000	FABRICATE AND DELIVER GRILLES, REGISTERS, AND DIFFUSERS (APS EARLY PROCUREMENT)	40d	40d	08-Mar-23	02-May-23	51d	FABRICATE AND DELIVER GRILLES, REGISTERS, AND DIFFUSERS (APS EARLY PROCUREMENT)																																															
FAB-0010	FABRICATE AND DELIVER LIGHT FIXTURES (APS EARLY PROCUREMENT)	60d	60d	08-Mar-23	31-May-23	31d	FABRICATE AND DELIVER LIGHT FIXTURES (APS EARLY PROCUREMENT)																																															
FAB-1000	FABRICATE AND DELIVER HVAC DUCTWORK	20d	20d	15-Jun-23	13-Jul-23	1d	FABRICATE AND DELIVER HVAC DUCTWORK																																															
FAB-1010	FABRICATE AND DELIVER KNOCK DOWN DOOR FRAMES	20d	20d	15-Jun-23	13-Jul-23	1d	FABRICATE AND DELIVER KNOCK DOWN DOOR FRAMES																																															
FAB-1020	FABRICATE AND DELIVER HYDRONIC PIPING	20d	20d	15-Jun-23	13-Jul-23	1d	FABRICATE AND DELIVER HYDRONIC PIPING																																															
FAB-1030	FABRICATE AND DELIVER DOORS AND HARDWARE	30d	30d	15-Jun-23	27-Jul-23	0d	FABRICATE AND DELIVER DOORS AND HARDWARE																																															
FAB-1060	FABRICATE AND DELIVER HEAT PUMPS	195d	195d	21-Jun-23	28-Mar-24	48d	FABRICATE AND DELIVER HEAT PUMPS																																															
FAB-1070	FABRICATE AND DELIVER CONDENSATE PUMPS	195d	195d	21-Jun-23	28-Mar-24	48d	FABRICATE AND DELIVER CONDENSATE PUMPS																																															
FAB-1050	FABRICATE AND DELIVERY COOLING TOWER	200d	200d	21-Jun-23	04-Apr-24	62d	FABRICATE AND DELIVERY COOLING TOWER																																															
FAB-1080	FABRICATE AND DELIVER BOILERS	200d	200d	21-Jun-23	04-Apr-24	62d	FABRICATE AND DELIVER BOILERS																																															
FAB-1040	FABRICATE AND DELIVER HVAC ROOFTOP UNITS	250d	250d	21-Jun-23	13-Jun-24	11d	FABRICATE AND DELIVER HVAC ROOFTOP UNITS																																															
FAB-1090	FABRICATION AND DELIVERY STRUCTURAL STEEL SUPPORTS	20d	20d	11-Jul-23	07-Aug-23	221d	FABRICATION AND DELIVERY STRUCTURAL STEEL SUPPORTS																																															
Phase 1 - Summer 2023 Construction																																																						
2023-1470	THIRD PARTY VERIFICATION OF LV SYSTEMS	5d	5d	12-Jun-23	16-Jun-23	0d	THIRD PARTY VERIFICATION OF LV SYSTEMS																																															
2023-1000	LAST DAY OF ELEMENTARY SCHOOL FOR 2022 - 2023 ACADEMIC YEAR	0d	0d		16-Jun-23*	0d	LAST DAY OF ELEMENTARY SCHOOL FOR 2022 - 2023 ACADEMIC YEAR																																															
2023-1005	START PHASE 1 - SUMMER 2023 WORK	0d	0d		16-Jun-23*	0d	START PHASE 1 - SUMMER 2023 WORK																																															
2023-1010	MOVE OUT TEACHER BELONGINGS AND LOOSE FURNITURE	4d	4d	17-Jun-23	20-Jun-23	0d	MOVE OUT TEACHER BELONGINGS AND LOOSE FURNITURE																																															
2023-1020	DEMOLISH EXISTING CEILINGS, LIGHT FIXTURES / DEVICES, & ARCHITECTURAL FEATURES	5d	5d	21-Jun-23	26-Jun-23	0d	DEMOLISH EXISTING CEILINGS, LIGHT FIXTURES / DEVICES, & ARCHITECTURAL FEATURES																																															
2023-1025	INSTALL TEMP LIGHTING / PROTECTION / BARRIERS	3d	3d	27-Jun-23	29-Jun-23	0d	INSTALL TEMP LIGHTING / PROTECTION / BARRIERS																																															
2023-1480	INSTALL TEMP FLOOR PROTECTION	3d	3d	27-Jun-23	29-Jun-23	0d	INSTALL TEMP FLOOR PROTECTION																																															
2023-1060	FRAME HEAT PUMP CLOSETS	10d	10d	28-Jun-23	10-Jul-23	9d	FRAME HEAT PUMP CLOSETS																																															
2023-1040	ROUGH-IN / TEST DUCTWORK	20d	20d	28-Jun-23	21-Jul-23	0d	ROUGH-IN / TEST DUCTWORK																																															
2023-1045	ROUGH-IN / TEST HEAT PUMP LOOP PIPING	20d	20d	28-Jun-23	21-Jul-23	0d	ROUGH-IN / TEST HEAT PUMP LOOP PIPING																																															
2023-1050	ROUGH-IN LIGHTING & POWER	20d	20d	28-Jun-23	21-Jul-23	0d	ROUGH-IN LIGHTING & POWER																																															
2023-1080	ROUGH-IN / ALTER / TEST SPRINKLER PIPING	20d	20d	28-Jun-23	21-Jul-23	0d	ROUGH-IN / ALTER / TEST SPRINKLER PIPING																																															
2023-1055	ROUGH-IN / TEST DOMESTIC HOT WATER PIPING (ALTERNATE)	20d	20d	28-Jun-23	21-Jul-23	0d	ROUGH-IN / TEST DOMESTIC HOT WATER PIPING (ALTERNATE)																																															
2023-1500	ROUGH-IN / TEST CONDENSATE PIPING	20d	20d	28-Jun-23	21-Jul-23	0d	ROUGH-IN / TEST CONDENSATE PIPING																																															
2023-1085	ROUGH-IN ATC CABLE / DEVICES	10d	10d	11-Jul-23	21-Jul-23	0d	ROUGH-IN ATC CABLE / DEVICES																																															
2023-1095	INSTALL ACT GRID	15d	15d	11-Jul-23	27-Jul-23	0d	INSTALL ACT GRID																																															
2023-1065	INSULATE DUCTWORK	10d	10d	13-Jul-23	24-Jul-23	3d	INSULATE DUCTWORK																																															
2023-1070	INSULATE HEAT PUMP LOOP PIPING	10d	10d	13-Jul-23	24-Jul-23	3d	INSULATE HEAT PUMP LOOP PIPING																																															
2023-1075	INSULATE DOMESTIC WATER HOT WATER PIPING (ALTERNATE)	10d	10d	13-Jul-23	24-Jul-23	3d	INSULATE DOMESTIC WATER HOT WATER PIPING (ALTERNATE)																																															
2023-1100	INSTALL DOOR FRAMES AT HEAT PUMP CLOSETS	5d	5d	14-Jul-23	19-Jul-23	1d	INSTALL DOOR FRAMES AT HEAT PUMP CLOSETS																																															
2023-1110	HANG / FINISH / PAINT GYPSUM BOARD AT HEAT PUMP CLOSETS	6d	6d	17-Jul-23	22-Jul-23	1d	HANG / FINISH / PAINT GYPSUM BOARD AT HEAT PUMP CLOSETS																																															
2023-1125	INSTALL REGISTERS, GRILLES, & DIFFUSERS	12d	12d	17-Jul-23	29-Jul-23	0d	INSTALL REGISTERS, GRILLES, & DIFFUSERS																																															
2023-1115	INSTALL / ADJUST SPRINKLER HEADS	12d	12d	17-Jul-23	29-Jul-23	0d	INSTALL / ADJUST SPRINKLER HEADS																																															
2023-1130	INSTALL LIGHT FIXTURES	12d	12d	17-Jul-23	29-Jul-23	0d	INSTALL LIGHT FIXTURES																																															
2023-1120	TERMINATE ATC PANELS / DEVICES OUTSIDE OF HEAT PUMP CLOSETS	12d	12d	17-Jul-23	29-Jul-23	0d	TERMINATE ATC PANELS / DEVICES OUTSIDE OF HEAT PUMP CLOSETS																																															
2023-1140	REPAIR FLOOR FINISHES AT HEAT PUMP CLOSETS	3d	3d	24-Jul-23	26-Jul-23	1d	REPAIR FLOOR FINISHES AT HEAT PUMP CLOSETS																																															
2023-1145	INSTALL DOORS AND HARDWARE AT HEAT PUMP CLOSETS	4d	4d	28-Jul-23	01-Aug-23	0d	INSTALL DOORS AND HARDWARE AT HEAT PUMP CLOSETS																																															
2023-1450	INSTALL ACT BORDER & CUT TILES	4d	4d	28-Jul-23	01-Aug-23	0d	INSTALL ACT BORDER & CUT TILES																																															
2023-1430	FINAL ABOVE CEILING CLOSE-IN INSPECTION	2d	2d	31-Jul-23	01-Aug-23	0d	FINAL ABOVE CEILING CLOSE-IN INSPECTION																																															

█ Actual Work
█ Remaining Work
█ Critical Remaining Work
◆ Milestone

Preliminary Project Schedule (Not for Construction)



Arlington Public Schools			Barcroft Elementary School				Data Date: 08-Mar-23																																															
Activity ID	Activity Name	Orig Dur	Rem Dur	Start	Finish	Total Float	2023												2024												2025												2026											
							F	M	A	M	J	Jul	A	S	Oct	N	D	Jan	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A									
Central Plant HVAC Equipment																																																						
2024-1060	DEMOLISH CENTRAL PLANT HVAC EQUIPMENT	3d	3d	20-Jun-24	01-Aug-24	0d	I DEMOLISH CENTRAL PLANT HVAC EQUIPMENT																																															
2024-1230	INSTALL / ALTER STRUCTURAL STEEL SUPPORTS FOR COOLING TOWER	5d	5d	26-Jun-24	01-Jul-24	0d	I INSTALL / ALTER STRUCTURAL STEEL SUPPORTS FOR COOLING TOWER																																															
2024-2180	THIRD PARTY STRUCTURAL STEEL INSPECTIONS FOR COOLING TOWER	3d	3d	28-Jun-24	01-Jul-24	0d	I THIRD PARTY STRUCTURAL STEEL INSPECTIONS FOR COOLING TOWER																																															
2024-1085	SET CENTRAL PLANT HVAC EQUIPMENT	10d	10d	02-Jul-24	12-Jul-24	0d	I SET CENTRAL PLANT HVAC EQUIPMENT																																															
2024-1120	MAKE PIPING CONNECTIONS TO CENTRAL PLANT EQUIPMENT	15d	15d	13-Jul-24	30-Jul-24	0d	I MAKE PIPING CONNECTIONS TO CENTRAL PLANT EQUIPMENT																																															
2024-1140	MAKE ELECTRICAL CONNECTIONS TO CENTRAL PLANT EQUIPMENT	15d	15d	13-Jul-24	30-Jul-24	2d	I MAKE ELECTRICAL CONNECTIONS TO CENTRAL PLANT EQUIPMENT																																															
2024-1130	MAKE ATC CONNECTIONS TO CENTRAL PLANT EQUIPMENT	15d	15d	13-Jul-24	30-Jul-24	2d	I MAKE ATC CONNECTIONS TO CENTRAL PLANT EQUIPMENT																																															
2024-1145	INSULATE PIPING ASSOCIATED W/ CENTRAL PLANT EQUIPMENT	10d	10d	22-Jul-24	01-Aug-24	0d	I INSULATE PIPING ASSOCIATED W/ CENTRAL PLANT EQUIPMENT																																															
Admin Area																																																						
2024-2000	MOVE ADMIN STAFF TO TEMP LOCATION	2d	2d	15-Jun-24	16-Jun-24	0d	I MOVE ADMIN STAFF TO TEMP LOCATION																																															
2024-2005	DEMOLISH EXISTING CEILING, LIGHT FIXTURES / DEVICES, & ARCHITECTURAL FEATURES	3d	3d	17-Jun-24	19-Jun-24	1d	I DEMOLISH EXISTING CEILING, LIGHT FIXTURES / DEVICES, & ARCHITECTURAL FEATURES																																															
2024-2010	INSTALL TEMP LIGHTING / PROTECTION / BARRIERS	2d	2d	20-Jun-24	21-Jun-24	1d	I INSTALL TEMP LIGHTING / PROTECTION / BARRIERS																																															
2024-2015	INSTALL UNDERGROUND PLUMBING FOR FLOOR DRAINS IN 1ST FLOOR HEAT PUMP CLOSETS	5d	5d	21-Jun-24	26-Jun-24	1d	I INSTALL UNDERGROUND PLUMBING FOR FLOOR DRAINS IN 1ST FLOOR HEAT PUMP CLOSET																																															
2024-2020	ROUGH-IN / TEST DUCTWORK	15d	15d	21-Jun-24	08-Jul-24	4d	I ROUGH-IN / TEST DUCTWORK																																															
2024-2025	ROUGH-IN / TEST HEAT PUMP LOOP PIPING	15d	15d	21-Jun-24	08-Jul-24	4d	I ROUGH-IN / TEST HEAT PUMP LOOP PIPING																																															
2024-2030	ROUGH-IN LIGHTING & POWER	15d	15d	21-Jun-24	08-Jul-24	4d	I ROUGH-IN LIGHTING & POWER																																															
2024-2035	ROUGH-IN / ALTER / TEST SPRINKLER PIPING	15d	15d	21-Jun-24	08-Jul-24	4d	I ROUGH-IN / ALTER / TEST SPRINKLER PIPING																																															
2024-2040	ROUGH-IN / TEST DOMESTIC HOT WATER PIPING (ALTERNATE)	15d	15d	21-Jun-24	08-Jul-24	4d	I ROUGH-IN / TEST DOMESTIC HOT WATER PIPING (ALTERNATE)																																															
2024-2045	PATCH / REPAIR / POUR SLAB ON GRADE	3d	3d	27-Jun-24	29-Jun-24	1d	I PATCH / REPAIR / POUR SLAB ON GRADE																																															
2024-2050	FRAME HEAT PUMP CLOSETS	3d	3d	01-Jul-24	03-Jul-24	1d	I FRAME HEAT PUMP CLOSETS																																															
2024-2055	INSTALL DOOR FRAMES AT HEAT PUMP CLOSETS	5d	5d	01-Jul-24	05-Jul-24	1d	I INSTALL DOOR FRAMES AT HEAT PUMP CLOSETS																																															
2024-2060	ROUGH-IN ATC CABLE / DEVICES	7d	7d	01-Jul-24	08-Jul-24	4d	I ROUGH-IN ATC CABLE / DEVICES																																															
2024-2065	INSULATE DUCTWORK	7d	7d	03-Jul-24	10-Jul-24	7d	I INSULATE DUCTWORK																																															
2024-2070	INSULATE HEAT PUMP LOOP PIPING	7d	7d	03-Jul-24	10-Jul-24	7d	I INSULATE HEAT PUMP LOOP PIPING																																															
2024-2075	INSULATE DOMESTIC WATER HOT WATER PIPING (ALTERNATE)	7d	7d	03-Jul-24	10-Jul-24	7d	I INSULATE DOMESTIC WATER HOT WATER PIPING (ALTERNATE)																																															
2024-2080	HANG / FINISH / PAINT GYPSUM BOARD AT HEAT PUMP CLOSETS	5d	5d	06-Jul-24	11-Jul-24	1d	I HANG / FINISH / PAINT GYPSUM BOARD AT HEAT PUMP CLOSETS																																															
2024-2085	REPAIR FLOOR FINISHES AT HEAT PUMP CLOSETS	3d	3d	12-Jul-24	15-Jul-24	14d	I REPAIR FLOOR FINISHES AT HEAT PUMP CLOSETS																																															
2024-2090	INSTALL ACT GRID	5d	5d	12-Jul-24	17-Jul-24	1d	I INSTALL ACT GRID																																															
2024-2095	INSTALL DOORS AND HARDWARE AT HEAT PUMP CLOSETS	3d	3d	16-Jul-24	18-Jul-24	14d	I INSTALL DOORS AND HARDWARE AT HEAT PUMP CLOSETS																																															
2024-2100	INSTALL REGISTERS, GRILLES, & DIFFUSERS	7d	7d	18-Jul-24	25-Jul-24	1d	I INSTALL REGISTERS, GRILLES, & DIFFUSERS																																															
2024-2105	INSTALL / ADJUST SPRINKLER HEADS	7d	7d	18-Jul-24	25-Jul-24	1d	I INSTALL / ADJUST SPRINKLER HEADS																																															
2024-2110	INSTALL LIGHT FIXTURES	7d	7d	18-Jul-24	25-Jul-24	1d	I INSTALL LIGHT FIXTURES																																															
2024-2115	TERMINATE ATC PANELS / DEVICES OUTSIDE OF HEAT PUMP CLOSETS	7d	7d	18-Jul-24	25-Jul-24	1d	I TERMINATE ATC PANELS / DEVICES OUTSIDE OF HEAT PUMP CLOSETS																																															
2024-2120	ABOVE CEILING CLOSE-IN INSPECTION	2d	2d	26-Jul-24	27-Jul-24	1d	I ABOVE CEILING CLOSE-IN INSPECTION																																															
2024-2125	INSTALL ACT TILE	5d	5d	29-Jul-24	02-Aug-24	1d	I INSTALL ACT TILE																																															
2024-2145	TESTING & BALANCING	10d	10d	02-Aug-24	13-Aug-24	0d	I TESTING & BALANCING																																															
2024-2130	FINAL CLEAN	5d	5d	05-Aug-24	09-Aug-24	0d	I FINAL CLEAN																																															
2024-2135	FINAL TRADE INSPECTIONS	5d	5d	05-Aug-24	09-Aug-24	0d	I FINAL TRADE INSPECTIONS																																															
2024-2140	PUNCHLIST	5d	5d	05-Aug-24	09-Aug-24	0d	I PUNCHLIST																																															
2024-2155	COMMISSIONING (NIGHTS)	10d	10d	14-Aug-24	24-Aug-24	0d	I COMMISSIONING (NIGHTS)																																															

■ Actual Work
■ Remaining Work
■ Critical Remaining Work
◆ Milestone

Preliminary Project Schedule (Not for Construction)



95FY23 Addendum 1 Attachment C
For Informational Purposes Only

BARCROFT ELEMENTARY RENOVATIONS SUBMITTAL REGISTRY

SPECIFICATION	SECTION	TYPE	DESCRIPTION	DESIGN TEAM REVIEWER	APS IN-HOUSE REVIEWER
012900 Payment Procedures	1.3	Informational Submittal	Schedule of Values	VMDO/ CMTA	
013100 Project Management and Coordination	1.3	Informational Submittal	A. Subcontractor List B. Key Personnel Names	VMDO/ CMTA	
	1.5	Coordination Drawings	B. Startup Construction Schedule C. Project Schedule D. CPM Reports E. Construction Schedule	VMDO/ CMTA	
013200 Construction Progress Documentation	1.4	Schedule	F. Daily Construction Reports G. Material Location Reports H. Site Condition Report I. Special Reports J. Qualification Data	VMDO/ CMTA	
013233 Photographic Documentation	1.2	Informational Submittal	A. Key Plan B. Digital Photographs	VMDO/ CMTA	
013300 Submittal Procedures	1.3	Informational Submittal	Submittal Schedule	VMDO/ CMTA	
013516 Alteration Project Procedures	1.5	Informational Submittal	A. Preconstruction Documentation B. Alteration Work Program C. Fire-Prevention Plan	VMDO/ CMTA	
			A. Testing Agency Qualifications B. Schedule of Tests and Inspections C. Reports and Documents (1.7) D. Permits, Licenses and Certificates		
014000 Quality Requirements	1.5	Informational Submittal	A. Site Plan B. Fire Safety Program C. Moisture Protection Plan D. Dust and HVAC Control Plan	VMDO/ CMTA	
	1.6	Quality Control Plan	A. Product Data B. Contractor's List of Incomplete Items C. Certified List of Incomplete Items	VMDO/ CMTA	
015000 Temporary Facilities and Controls General	1.4	Informational Submittal	A. Certificate of Release B. Certificate of Insurance C. Field Report	VMDO/ CMTA	
017700 Closeout Procedures	1.3	Action Submittals	A. Record Drawings B. Record Specifications	VMDO/ CMTA	
017823 Operations and Maintenance Data		O&M Requirements	C. Record Product Data D. Miscellaneous Record Submittals E. Reports	VMDO/ CMTA	
			A. Record Drawings B. Record Specifications	VMDO/ CMTA	
017839 Project Record Documents	1.2	Closeout Submittals	C. Record Product Data D. Miscellaneous Record Submittals E. Reports	VMDO/ CMTA	
017900 Demonstration and Training	1.2	Informational Submittal	Instruction Program	VMDO/ CMTA	
018113 Sustainable Design Requirements	1.5	Informational Submittal	A. Construction Indoor Air Quality (IAQ) Management B. Proposed Protection Measures	VMDO/ CMTA	
024119 Selective Demolition	1.5	Informational Submittal	A. Proposed Protection Measures B. Schedule of Delective Demolition Activities	VMDO/ CMTA	
	1.6	Closeout Submittal	A. Inventory	VMDO/ CMTA	

051200 Steel. Specification Not Provided. Requirements noted on S-001	S-001	Shop Drawings	Provide shop and erection drawings for steel, connections and calculations	Silman
	1.3A	Product Data	Fasteners Shop Primers Shrinkage-Resisting Grout Slotted haennel Framing	VMDO/ CMTA
055000 Metal Fabrications			Steel framing and supports for mechanical and electrical equipment.	
	1.3B	Shop Drawings	Steel framing and supports for applications where framing and supports are not specified in other sections. Screen Walls	VMDO/ CMTA
061053 Micellaneous Rough Carpentry	1.2	Action Submittal	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
070151 Maintenance of Membrane Roofing	1.2	Informational Submittal	A. Qualification Data Product Data	VMDO/ CMTA
072100 Thermal Insulation	1.2	Action Submittal	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
			2.2 Roof Curbs. 2.3 Pipe and Duct Supports 2.4 Pipe Portals	
077200 Roof Accessories	1.3	Product Data	2.5 Performed Flashing Sleeves 2.6 Metal Materials 2.7 Miscellaneous Materials	VMDO/ CMTA
	1.2	Action Submittal	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
078413 Penetration Firestopping	1.3	Informational Submittals	A. Installer Certificates B. Product Test Reports	VMDO/ CMTA
	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals C. Product Schedule	VMDO/ CMTA
078446 Fire-Resistive Joint Systems	1.3	Informational Submittals	A. Qualification Data B. Installer Certificates C. Product Test Reports	VMDO/ CMTA
	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
079200 Joint Sealants		Sample	C. Sample for Initial Selection D. Sample for Verification	VMDO/ CMTA
079219 Acoustical Joint Sealants	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals C. Shop Drawings D. Product Schedule	VMDO/ CMTA
08113 Hollow Metal Doors and Frames	1.3	Informational Submittals	A. Qualification Data B. Field Quality Control Reports	VMDO/ CMTA
	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals C. Shop Drawings	VMDO/ CMTA
081416 Flush Wood Doors	1.2	Action Submittals	B. Sustainable Design Submittals C. Shop Drawings	VMDO/ CMTA

083113	Access Doors and Frames	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals C. Product Schedule	VMDO/ CMTA
087100	Door Hardware	1.04 1.07	Informational Submittal Action Submittals	B. Installer Qualification Data Product Data	
092116	Gypsum Board Shaft Wall Assemblies	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
092216	Non-Structural Metal Framing	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
092900	Gypsum Board	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals C. Shop Drawings	VMDO/ CMTA
			Sample	D. Trim Accessories	
			Action Submittals	A. Product Data B. Sustainable Design Submittals	
095113	Acoustical Panel Ceilings	1.2		C1. Acoustical Panels C2. ExposedSuspension System Members C3. Clips	VMDO/ CMTA
		1.6	Maintenance Material	A1. Full size 2% of quantity installed	
096513	Resilient Base and Accessories	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
			Sample	C. Product Samples	
096519	Resilient Tile Flooring	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
			Sample	C. Product Samples	
096816	Sheet Carpeting	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
			Sample	C. Product Samples	
099125	Interior Painting and Repainting	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
			Sample	D. Product List C. Product Samples	
123663	Solid Surface Countertops and Windowsills	1.2	Action Submittals	A. Product Data B. Sustainable Design Submittals	VMDO/ CMTA
			Sample	C. Shop Drawings D. Countertop	
132801	Hazardous and Universal Waste Management Procedures	1.6	Informational Submittals	A. Copy of Licenses for Waste Hauler B. US EPA ID Nimber/ Generator C.Copy of "Notice of Hazardous Waste Activity" Plan D. Copy of Forms Required by Local Agencies E. Sample of Disposal Label To Be Used F. Emergency Response Plan	VMDO/ CMTA
132802	Lead Control Procedures	1.07	Informational Submittals	1. Certifications 2. Testing Laboratory Qualifications 3.Hazardous Waste Management 4. Manufacturer's Catalog Data 5. Lead-Containing Material Control Plan	
210500	Common Work Results for Fire Suppression	12.1	Warranty	B1. Records	CMTA
210502	Shop Drawings Fire Suppression	1.1	Shop Drawing Requirements		CMTA

211000 Fire Protection	2.2.1 Part 3	O&M Shop Drawings		CMTA CMTA
			4.1 Interior Pipe and Fittings 4.3 Sprinkler Heads	
	Part 4	Equipment and Materials	4.9 Clamps and Anchors 4.10 Hangers 4.11 Sleeves and Eschutcheon Plates 4.12 Signs	CMTA
220500 Common Work Results for Plumbing	Part 6	Inspections and Tests		CMTA
	1.8D	Equipment Startup		CMTA
	3.8	Warranty		CMTA
220502 Shop Drawings Plumbing	1.2	<i>Shop Drawing Requirements</i>		CMTA
220515 Sleeving for Plumbing	Part 3	Product Data	3.6 Firestopping	CMTA
			2.1A Check Valves 2.1B Ball Valves 2.1C Three Piece Ball Valves 2.1D Strainers 2" and Smaller 2.1E Strainers 2-1/2" and Larger 2.1F Vacuum Breakers 2.1G Double Check Valves 2.1G Balancing Valves	
220523 Valves for Plumbing	Part 2	Product Data	2.1 Hangers, Clamps, Attachment Schedule	CMTA
220529 Hangers for Plumbing	Part 2	Product Data	Valve Tags and Tag Chart Piping Identification	CMTA
220553 Identifications for Plumbing	2.1	Tags and Charts	Insulation Materials Domestic Pump Flow	CMTA
220700 Insulation Plumbing	Part 2	Product Data	Water Heaters Thermostaic Mixing Valves 2.1A Soil, Waste and Vent Piping (Below Slab) 2.1B Soil, Waste and Vent Piping (Above Slab) 2.2 Domestic Piping (Above Slab) 2.3 Domestic Piping (Below Slab) 2.4 Union, Flanges and Welded Tees	CMTA
220995 TAB Plumbing	Part 2	TAB	Plumbing Fixtures and Trim	CMTA
221000 Pipe for Plumbing	2.1	Product Data		CMTA
224000 Pl.Fixtures		Product Data		CMTA
224005 Pl.Specialties		Product Data		CMTA
230100 Common Work Results for HVAC w attachments	Part 12	Warranty		CMTA
	18.8	Record Drawings		CMTA
230300 Shop Drawings, Maintenance Manuals, and Parts List		<i>Shop Drawing Requirements</i>		CMTA
	2.21	O&M		CMTA
230513 Common Motor Electrical Requirements for HVAC Equipment				CMTA
230517 Sleeving	Part 5	Product Data	Firestopping Thermometers and Pressure Gauges	CMTA
230519 Meters and Gauges for HVAC Piping	Part 2/3	Product Data	Pressure/ Temperature Port	CMTA

230523 General Duty Valves for HVAC Piping	Part 2	Product Data	2.1 Gate Valve (2" and Less) 2.2 Check Valves (2" and Less) 2.3 Check Valves (2-1/2" and Larger) 2.4 Two Piece Ball Valves (2" and Less) 2.5 Ball Valves (2-1/2"-3") 2.6 Butterfly Valve (4" and Less) 2.7 Strainers 2" and Smaller 2.8 Strainers (2-1/2" and Larger) 2.9 Balancing Valve (4" and Less) 2.10 Flexible Connection 2.11 Automatic Air Vent 2.12 Manual Air Vent	CMTA
230529 Hangers and Supports for HVAC Piping and Equipment	Part 2	Product Data	2.1 Hangers, Clamps, Attachment Schedule Part 2 Tags and Charts	CMTA
230553 Identification for HVAC Piping and Equipment			Part 3 Piping Identification Part 5 Equipment Identification Part 6 Ductwork Identification Part 5 Piping Systems Insulation	CMTA
230700 HVAC Insulation, Equipment, Ductwork and Piping	Part 5- 7	Product Data	Part 6 Ductwork Systems Insulation Part 7 Mechanical Equipment Insulation	CMTA
230900 Temperature Controls and Sequence of Operations for HVAC	Part 4	Shop Drawings		CMTA
230995 Testing, Adjusting, and Balancing for HVAC	Part 3	Product Data	All Devices and Equipment	CMTA
232200 HVAC Piping		TAB	3.19 Test Reports of Part 3 Test Requirements	CMTA
232500 HVAC Water Treatment, Cleaning, Filling, and Purging		Product Data	HVAC Piping and Fittings	CMTA
		Testing Results	Chemical Test Results/ Treatment	CMTA
		Product Data	Chemical Treatment System and Equipment Part 2 and 3 Ductwork 2.3 Sealant 2.7 Hangers 2.9 High Efficiency Take-offs 2.10 Air Volume Dampers 2.18 Insulated Flexible Air Duct 2.19 Flexible Connectors 2.20 Turning Vanes 2.21 Access Doors 2.23 Volume Dampers (Rectangular) 2.24 Volume Dampers (Round) 2.25 Fire Dampers 2.26 Smoke Dampers 2.27 Fire/Smoke Dampers	CMTA
233200 Sheet Metal	Part 2/3	Shop Drawing Product Data	Air Leakage Testing	CMTA
	Part 4	Testing Results	1.7 See HVAC Equipment List 2.1.1 Air Filter System	CMTA
233700 HVAC.Equipment		Product Data	2.2.12 Secondary Drain Pan	CMTA

		P-1 Pump Heat Pump Loop	
		P-2 Pump Heat Pump Loop	
		P-3 Low Flow	
		P-4 Pump Condenser Loop	
233723 HVAC Pumps	Product Data	P-5 Pump Condenser Loop	CMTA
		P-6 Pump Heating Water Loop	
		P-7 Pump Heating Water Loop	
		P-8 Pump Boiler Feed	
		P-9 Pump Boiler Feed	
		P-10 Pump Boiler Feed	

233725 Diffuser, Registers, Grilles and Louvers *To Be Provided by Owner OFCI* CMTA

HVAC Equipment Requiring Submittals

- OA-1 Outside Air Unit
- OA-2 Outside Air Unit Coils
- ERV-1 Energy Recovery Ventilator
- CHP-09 Console Heat Pump
- SHP-12 Vertical Stack Heat Pump
- VHP-12,24,36,48,60 Vertical Heat Pumps
- CAV-5 VAV/CAV Box
- VAV-5 VAV/CAV Box
- VAV-8 VAV/CAV Box
- VAV-10 VAV/CAV Box
- VVD Variable Volume Dampers
- VFD 1-11 Variable Frequency Drives
- CUH-1 Electric Unit Heater
- CUH-2 Electric Unit Heater
- CUH-3 Electric Unit Heater
- EF-1 Art Exhaust Fan
- EF-2 Art Exhaust Fan
- EF-3 Restroom Exhaust Fan
- CT-1 Cooling Tower
- WT-1 Remote Cooling Tower Sump Tank
- Cooling Tower Chemical Treatment Equipment
- B-1 Boiler
- B-2 Boiler
- B-3 Boiler
- HX-1 Plate and Frame Heat Exchanger
- ET-1 Expansion Tank Heat Pump Loop
- ET-2 Expansion Tank Heating Water Loop
- AS-1 Air Separator Heat Pump Loop
- AS-2 Air Separator Heating Water Loop
- DH-1 Duct Mounted Electric Coil
- DH-1 Duct Mounted Electric Coil
- CU-1 Outdoor Condensing Unit
- IU-1 Indoor Unit
- CP- Condensate Pump

260000 General Provisions	9.2	Warranty	CMTA
	16.2	Record Drawings	CMTA
260020 Shop Drawings		<i>Shop Drawing Requirements</i>	CMTA

	Part 4	O&M		CMTA
	E600		Coordination/ Fault Current Study	CMTA
260075 Identifications				CMTA
260120 Conductors Etc.		Product Data	Conductors	CMTA
			2.1-2.6 EMT and Conduit	
			2.7 Surface Metal Raceway	
260130 Raceways and Fittings	Part 2	Product Data	2.8 Cable Tray	CMTA
			2.10 Raceway Fittings	
			2.11 Supports and Hangers	
			2.12 Firestopping Material	
			Cabinets, Outlets and Pull Boxes	
260135 Cabinets, Outlet Boxes	Part 2	Product Data	Disconnect Switches	CMTA
			Circuit Breakers and Fusible Switches	
260140 Wiring Devices	Part 2	Product Data	Receptacles and Switches	CMTA
			Lighting Control Devices	
265113 Interior Lighting	Part 2	Product Data	Lighting Fixtures	CMTA
			Communications outlets, faceplates, surface mount boxes, and accessories	
			Fiber optic cable, fiber patch cables, fiber housing, coupler panels, and fiber connectors	
			Copper cable, patch cables, horizontal wire management and vertical wire management	
270500 Common Work Results For Communications	1.6B	Product Data	Innerduct, cable tray, ladder rack, j hooks, and accessories	CMTA
			Equipment Cabinet and racks	
			UPS, PDU, and battery packs	
			Grounding wire, busbars, lugs, and connectors	
	1.6 C	Shop Drawings		CMTA
	1.6 E	Record Drawings		CMTA
	1.8	Warranty		CMTA
271500 Communications Horizontal Cabling	1.6 D	Product Data	Communications outlets, faceplates, surface mount boxes, and accessories	CMTA
			Copper cable, patch cables, and patch panels	
283100 Fire Alarm System	Part 10	Warranty		CMTA
	Part 6	Product Data	Fire Alarm Wiring	CMTA
			Fire Alarm Peripheral Devices	
	3.6.5	Shop Drawings		CMTA

***Addendum No.1 must be signed, dated, and submitted via the secure cloud-based file sharing platform specified in the ITB prior to the Bid Closing Date/Time stated above OR acknowledgment of receipt of this Addendum may be noted on the Bid Form.**

Name of Bidder: _____

Signature: _____

Name: _____

Title: _____

Date: _____

Issued By:

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