



Allies & Ross
Management and Development Corporation
200 Ross Street
Pittsburgh, PA 15219

412-456-5000

May 18, 2022

**Allies & Ross Management and Development Corporation
IFB#2022-37 –G E P M**

New Construction of Northview Midrise

ADDENDUM NO. 7

This addendum issued May 18, 2022 becomes in its entirety a part of the Invitation for Bid IFB#2022-37 as is fully set forth herein:

Item 1: Q: Can or is the handrail to be bolted to the wall in the stair towers (No Balusters) or is it to be independent of the wall and include balusters like the inner railing is detailed?

A: The outer handrails along the walls may be bolted to the walls without balusters.

Item 2: Q: Generator model number on drawing E300 lists a Kohler 80REOXJ4, which is a special unit for prime power continuous running 24 hours 7 days a week. The correct model number should be 80REOZJF which is a TIER 3 EPA certified unit for Standby operation with Utility Power Present. Which applies to this job?

A: Provide 80REOZJF or approved equal.

Item 3: Q: On drawing P000 (issued in Addendum #4), notes 29.1, 29.1.1 & 29.1.2 indicated the possible addition of lead filters and/or replacing fixtures. Will this be handled as a change order; if not, how shall we price?

A: Include the cost of the addition of filters in the base bid. Provide a deduct alternate for the omission of filters. Replacing fixtures will not be required. Refer to Attachment A, "Select Revised Specifications for Addendum No. 7", Section 22 40 10 – Plumbing Specialties. Specification Section 01 23 00 – Alternates has been updated to include lead filters as a deduct alternate. Deduct alternate amount must be entered on Form of Bid 00331-1r1 found as Attachment B to this addendum. This form replaces "Form of Bid 00331-1", and offerors responding to the Plumbing Construction portion of the Invitation for Bid must complete this revised attached form.

Item 4: Q: Snow Guards/Specifications section 07 72 53: Can you provide more information on materials; are these to be stainless steel, aluminum or painted steel?

A: The specifications call for ASTM D6098 polycarbonate. Stainless steel, aluminum, or painted steel will also be accepted as an approved equal.

Item 5: Q: In the “Furnishings List” on drawings A115 and A116 for reference only/items furnished by the owner; are we only responsible for the trash compactors since this is the only equipment listed that we have specifications for? A storage cabinet is called out as well; however there is not a specification on this cabinet.

A: The “Furnishings List” on drawings A115 and A116 is for reference only. The General Contractor is responsible for the Trash compactor. The General Contractor is also responsible for the storage cabinet called out in the Development Facilities and Maintenance room. The Basis-of-Design for the storage cabinet is DENIOS Flammable Safety Cabinet – 45 Gallon – FM Approved – Self-Closing Door – with Legs – 1045SL-50 or approved equal. The specification Section 12-35-53.13 Metal Laboratory Casework has been added to specify this storage cabinet.

Item 6: Q: In regard to the siding and alternates can you provide a specification on vented system? Is this a Cor-A-Vent, MTI, or wood furring system? If wood please provide size, treatments, etc. of wood furring.

A: The vented system is pressure treated plywood furrings 3/8” thick by 2” wide.

Item 7: Q: In regard to the siding and alternates, is the “furring” mentioned in the Typ. Exterior Wall Assembly the component for a vented siding system?

A: Yes, the “Furring” mentioned in the Typ. Exterior Wall Assembly is the component for the vented siding system.

Item 8: Q: In regard to the siding and alternates, can you provide a specification, details, and accessories on the “Panel” cement board siding? And is this vented?

A: The “Panel” cement board siding is vented. The vented system is pressure treated plywood furrings 3/8” thick by 2” wide. Refer to Specification Section 07 46 46 – Fiber Cement Siding.

Item 9: Q: In regard to the siding and alternates, the alternates only pertain to the Horizontal lap siding and not the “Panel” cement board siding, correct?

A: Correct, the deduct alternates only pertain to the horizontal lap sizing and not the panel siding, per Specification Section 01 23 00.

Item 10: Specification Section 08 06 71 – Door Hardware Schedule has been revised. Please see Attachment A, “Select Revised Specifications for Addendum No. 7” for the revisions to Specification Section 08 06 71 – Door Hardware Schedule.

Item 11: The bid due date has changed to May 31, 2022; the time and location remain unchanged at 10:00 AM, at the HACP Procurement Dept., 100 Ross St. 2nd Floor, Suite 200, Pittsburgh, PA 15219.

Item 12: The Allies & Ross Management and Development Corporation will **only be accepting physical bids dropped off in person from 8:00 AM until the closing time of 10:00 AM on May 31, 2022** in the lobby of 100 Ross St. Pittsburgh, PA 15219. Bids may still be submitted electronically: <https://www.dropbox.com/request/E2YYRSmjyTVWbEglUo8r> and may still be mailed via USPS at which time they will be Time and Date Stamped at 100 Ross Street 2nd Floor, Suite 200, Pittsburgh, PA 15219. All bids must be received at the above address no later than May 31, 2022 at 10:00 a.m., regardless of the selected delivery mechanism.

END OF ADDENDUM NO. #7

Kim Detrick

Kim Detrick (May 18, 2022 15:19 EDT)

Mr. Kim Detrick
Agent

May 18, 2022

Date

Attachment A – Select Revised Specifications for Addendum No. 7

Allies & Ross Management and Development Corporation

IFB#2022-37 –G-E-P-M

New Construction of Northview Midrise

Northview Heights Midrise Development

Fukui Architects Project #2040

SECTION 01 23 00 – DEDUCT ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

PFHA Project No. 2021-156 3/30/2022

- A. Section includes administrative and procedural requirements for deduct alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

- 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of deduct alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF DEDUCT ALTERNATES

- A. Deduct Alternate No. 001 : Exterior Lap Siding.

1. Base Bid: Vented Cementitious Horizontal Lap Siding, 6.25" width, as indicated on Drawing A201 and A202 and as specified in Section 07 46 46 "Fiber Cement Siding."
 2. Deduct Alternate: Unvented Cementitious Horizontal Lap Siding, 6.25" width, as specified in Section 07 46 46 "Fiber Cement Siding."
 3. Deduct Alternate: Vented Vinyl Horizontal Lap Siding, 6" width, as specified in Section 07 46 33 "Plastic Siding."
 4. Deduct Alternate: Unvented Vinyl Horizontal Lap Siding, 6" width, as specified in Section 07 46 33 "Plastic Siding."
- B. Deduct Alternate No. 002 : Kitchen Countertops.
1. Base Bid: Quartz Agglomerate Countertops for the Community Room Kitchenette and the Unit Kitchens as indicated on Drawing A401 through A421 and A513 and as specified in Section 12 36 61.19 "Quartz Agglomerate Countertops."
 2. Deduct Alternate: Solid Surface Countertops as specified in Section 06 61 16 "Solid Surfacing Fabrications."
 3. Deduct Alternate: Plastic Laminate Countertops as specified in Section 12 36 23.13 "Plastic-Laminate-Clad Countertops."
- C. Deduct Alternate No. 003 : ADA Slide-In Range with Oven.
1. Base Bid: 34" Height ADA Slide-In Range with Oven for the Community Room Kitchenette and the Type-A Unit Kitchens as indicated on Drawing A401 through A421 and A513 and as specified in Section 11 30 13 "Residential Appliances."
 2. Deduct Alternate: 36" Height ADA Slide-In Range with Oven as specified in Section 11 30 13 "Residential Appliances."
- D. Deduct Alternate No. 004 : Interior Unit Doors
1. Base Bid: Pre-Hung Solid Wood Core Doors in Wood Frame for all Interior Unit Doors, not including the Unit Entry Doors, as indicated on Drawing A401 through A420 and as specified in Section 08 14 16 "Flush Wood Doors."
 2. Deduct Alternate: Pre-Hung Hollow Core Wood Doors in Wood frame as specified in Section 08 14 16 "Flush Wood Doors."
- E. Deduct Alternate No. 005 : Lead Filters
1. Base Bid: Lead Filters in accordance with Specifications Section 22 40 10 – Plumbing Specialties.
 2. Deduct Alternate: No Lead Filters required if water quality testing in accordance with Enterprise Green Communities Checklist 4.3 Optional points is satisfactory.

END OF SECTION 01 23 00

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding Doors.
 - 3. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical and access control door hardware.
 - 3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
 - 4. Automatic operators.
 - 5. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section “Door Hardware”.
 - 2. Division 28 Section “Multi-Family Access Control”.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Refer to "PART 3 – EXECUTION" for required specification sections.
 - 1. Manufacturers listed are the Basis-of-Design, other manufacturers must be approved equal by Architect/Owner.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule.

Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
 2. The supplier is responsible for handling and sizing all products.
 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.
1. Section 08 71 00 – Door Hardware.
 2. Section 28 15 10 – Multi-Family Access Control.
- C. Manufacturer's Abbreviations:
1. MK - McKinney
 2. PE - Pemko
 3. SU - Securitron
 4. RO - Rockwood
 5. YA - Yale
 6. HS - HES
 7. RF - Rixson
 8. NO - Norton
 9. TA - Traka
 10. MC - Medeco

Hardware Sets

Set: 1.0

Doors: 101a A

2	Continuous Hinge	CFMSLF-HD1	PE	087100	
2	Electric Power Transfer	EL-CEPT	SU	087100	⚡
1	Concealed Vert Rod Exit, Exit Only	7160 B MELR EO	630	YA	087100 ⚡

1	Concealed Vert Rod Exit, Nightlatch	7160 B MELR 121NL	630	YA 087100	⚡
1	Rim Cylinder	1109	626	YA 087100	
2	Pull	RM201	US32D	RO 087100	
1	Surface Closer (UNI Stop arm)	UNI4400	689	YA 087100	
1	Automatic Opener	6300 Series	689	NO 087113	⚡
1	Threshold	252x3AFG		PE 087100	
1	Gasketing	S88D (head & jambs)		PE 087100	
2	Sweep	315CN		PE 087100	
1	Astragal	S772BL LAR		PE 087100	
1	Updater/Controller	NTX642-KIT (supplied by Division 28)		YA 281500	⚡
2	ElectroLynx Harness	QC-C x LENGTH REQ'D		MK 087100	⚡
2	ElectroLynx Harness	QC-C1500P		MK 087100	⚡
2	Door Switch	501		NO 087100	⚡
1	Power Supply	AQL4-R8E1		SU 087100	⚡
2	Door Contact	BY SECURITY CONTRATOR			
1	Wiring Diagrams	ELEVATION & POINT-TO-POINT			

Notes: Operational Description: Doors are normally closed and locked and outside door switch is disabled. Presenting a valid card to the card reader will momentarily retract latch of exit device at RHR leaf and enable outside door switch, allowing manual entry by pulling door open or assisted entry by pressing outside door switch to activate auto operator at RHR leaf. Entry also by key in cylinder at RHR leaf. Assisted egress at all times by pressing inside door switch to retract latches of exit device and activate auto operator at RHR leaf. Manual egress at all times by pressing rail of either exit device and exiting. Pressing rail of either device will shunt door contacts for authorized egress. Door contacts monitor the position of the doors and report this status to the security system.

Set: 2.0

Doors: 100 A

1	Continuous Hinge	CFMSLF-HD1 x PT		PE 087100	
1	Electric Power Transfer	EL-CEPT		SU 087100	⚡
1	Rim Exit Device, Nightlatch	7100 B MELR 121NL	630	YA 087100	⚡
1	Rim Cylinder	1109	626	YA 087100	
1	Pull	RM201	US32D	RO 087100	
1	Surface Closer (UNI Stop arm)	UNI4400	689	YA 087100	

1	Threshold	252x3AFG	PE	087100
1	Gasketing	S88D (head & jambs)	PE	087100
1	Sweep	345CV	PE	087100
1	Updater/Controller	NTX642-KIT (supplied by Division 28)	YA	281500 ⚡
1	ElectroLynx Harness	QC-C x LENGTH REQ'D	MK	087100 ⚡
1	ElectroLynx Harness	QC-C1500P	MK	087100 ⚡
1	Power Supply	AQL4-R8E1	SU	087100 ⚡
1	Door Contact	BY SECURITY CONTRATOR		
1	Wiring Diagrams	ELEVATION & POINT-TO-POINT		

Notes: Operational Description: Door is normally closed and locked. Presenting a valid card to the card reader will momentarily retract latch of exit device, allowing entry. Entry also by key in cylinder. Manual egress at all times by pressing rail of exit device and exiting. Pressing rail of exit device will shunt door contact for authorized egress. Door contact monitors the position of the door and reports this status to the security system.

Set: 3.0

Doors: 106a B

2	Continuous Hinge	CFM-HD1	PE	087100
2	Concealed Vert Rod Exit, Exit Only	6165ED EO	630	YA 087100
1	Storeroom Thumbturn Trim	503F	626	YA 087100
1	Mortise Cylinder	2153	626	YA 087100
1	Rim Cylinder	1109	626	YA 087100
2	Pull	RM201	US32D	RO 087100
2	Surface Closer (UNI Stop arm)	UNI4400	689	YA 087100
1	Threshold	252x3AFG	PE	087100
1	Gasketing	S88D (head & jambs)	PE	087100
2	Sweep	315CN	PE	087100
1	Astragal	S772BL LAR	PE	087100

Set: 4.0

Doors: 102 A

1	Continuous Hinge	CFM-HD1	PE	087100
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1	Rim Exit Device, Nightlatch	6105ED 121NL	630	YA	087100
1	Mortise Cylinder	2153	626	YA	087100
1	Rim Cylinder	1109	626	YA	087100
1	Pull	RM201	US32D	RO	087100
1	Surface Closer (UNI Stop arm)	UNI4400	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D-316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Threshold	252x3AFG		PE	087100
1	Gasketing	S88D (head & jambs)		PE	087100
1	Sweep	315CN		PE	087100

Set: 5.0

Doors: 402 B

1	Continuous Hinge	CFMSLF-HD1 x PT		PE	087100
1	Electric Power Transfer	EL-CEPT		SU	087100 ⚡
1	Electrified Rim Exit, Fail Secure	7100 MO691F SPAR 05454	630	YA	087100 ⚡
1	Rim Cylinder	1109	626	YA	087100
1	Pull	RM201	US32D	RO	087100
1	Conc Overhead Stop	6-X36	630	RF	087100
1	Surface Closer (REG)	4400	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D-316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Threshold	252x3AFG		PE	087100
1	Gasketing	S88D (head & jambs)		PE	087100
1	Sweep	315CN		PE	087100
1	Updater/Controller	NTX642-KIT (supplied by Division 28)		YA	281500 ⚡
1	ElectroLynx Harness	QC-C x LENGTH REQ'D		MK	087100 ⚡
1	ElectroLynx Harness	QC-C1500P		MK	087100 ⚡
1	Power Supply	AQL4-R8E1		SU	087100 ⚡
1	Wiring Diagrams	ELEVATION & POINT-TO-POINT			

Notes: CARD READER BY SECURITY VENDOR. PRESENTING AUTHORIZED CREDENTIAL TO

CARD READER WILL UNLOCK TRIM ALLOWING ACCESS. FREE EGRESS BY EXIT DEVICE.
EMERGENCY ACCESS BY KEY.

Set: 6.0

Doors: 111 B, 117 B, 118 A

1	Continuous Hinge	CFM-HD1		PE	087100
1	Rim Exit Device, Nightlatch	6105ED 121NL	630	YA	087100
1	Mortise Cylinder	2153	626	YA	087100
1	Rim Cylinder	1109	626	YA	087100
1	Pull	RM201	US32D	RO	087100
1	Surface Closer (UNI Stop arm)	UNI4400	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D-316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Threshold	252x3AFG		PE	087100
1	Gasketing	S88D (head & jambs)		PE	087100
1	Sweep	315CN		PE	087100

Set: 7.0

Doors: 150 A, 150 B, 150 C, 150 D, 150 E

1	Continuous Hinge	CFM-HD1		PE	087100
1	Rim Exit Device, Classroom	6100-2ED MO626F (inside cylinder) LD	630	YA	087100
2	Rim Cylinder	1109	626	YA	087100
1	Surface Closer (UNI Stop arm)	UNI4400	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D-316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Threshold	252x3AFG		PE	087100
1	Gasketing	S88D (head & jambs)		PE	087100
1	Sweep	315CN		PE	087100

Set: 8.0

Doors: GATE 1, GATE 2

1	Magnetic Lock	M62GBD	SU 087100	⚡
1	Updater/Controller	NTX642-KIT (supplied by Division 28)	YA 281500	⚡
1	Electromechanical Bar	WEMB-CL	SU 087100	⚡
1	Push Button	PB	SU 087100	⚡
1	Power Supply	AQL4-R8E1	SU 087100	⚡
1	Cover	WCC	SU 087100	⚡
1	Mounting Box	WBB	SU 087100	⚡

Notes: CARD READER BY SECURITY VENDOR. EXTERIOR: PRESENTING AUTHORIZED CREDENTIAL TO CARD READER WILL UNLOCK MAGNETIC LOCK ALLOWING ACCESS. INTERIOR: PUSHING TOUCH BAR WILL UNLOCK MAGNETIC LOCK ALLOWING EGRESS. PUSHING PUSH BUTTON WILL UNLOCK MAGNETIC LOCK ALLOWING EGRESS. ACTIVATION OF FIRE ALARM UNLOCKS MAGNETIC LOCKS.

Set: 9.0

Doors: 106 B

2	Continuous Hinge	CFM-HD1	PE 087100	
1	Flush Bolt (top self latching/ bottom automatic)	2845/ 2945	US26D RO 087100	
1	Dust Proof Strike	570	US26D RO 087100	
1	Storeroom or Closet Lock	MO 4705LN	626 YA 087100	
2	Surface Closer (UNI Stop arm)	UNI4400	689 YA 087100	
4	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D-316 RO 087100	
1	Threshold	252x3AFG	PE 087100	
1	Gasketing	S88D (head & jambs)	PE 087100	
2	Sweep	315CN	PE 087100	
1	Astragal	S772BL LAR	PE 087100	
1	Latch Protector	320CXL	US32D RO 087100	

Set: 10.0

Doors: 120 A

1	Continuous Hinge	CFM-HD1	PE 087100	
1	Storeroom or Closet Lock	MO 4705LN	626 YA 087100	
1	Surface Closer (UNI Stop	UNI4400	689 YA 087100	

	arm)				
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Threshold	252x3AFG		PE	087100
1	Gasketing	S88D (head & jambs)		PE	087100
1	Sweep	315CN		PE	087100
1	Latch Protector	320CXL	US32D	RO	087100

Set: 11.0

Doors: 415 B

1	Continuous Hinge	CFM-HD1		PE	087100
1	Storeroom or Closet Lock	MO 4705LN	626	YA	087100
1	Electric Strike	1500C-DLM	630	HS	087100 ⚡
1	SMART Pac Bridge Rectifier	2005M3		HS	087100 ⚡
1	Surface Closer (UNI Stop arm)	UNI4400	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Threshold	252x3AFG		PE	087100
1	Gasketing	S88D (head & jambs)		PE	087100
1	Sweep	315CN		PE	087100
1	Updater/Controller	NTX642-KIT (supplied by Division 28)		YA	281500 ⚡
1	Power Supply	AQL4-R8E1		SU	087100 ⚡
1	Wiring Diagrams	ELEVATION & POINT-TO- POINT			
1	Latch Protector	320CXL	US32D	RO	087100

Notes: CARD READER BY SECURITY VENDOR. PRESENTING AUTHORIZED CREDENTIAL TO CARD READER WILL UNLOCK ELECTRIC STRIKE ALLOWING ACCESS. FREE EGRESS BY LEVER.

Set: 12.0

Doors: 100 B

1	Continuous Hinge	CFMSLF-HD1 x PT		PE	087100	
1	Electric Power Transfer	EL-CEPT		SU	087100	⚡
1	Rim Exit Device, Nightlatch	7100 B MELR 121NL	630	YA	087100	⚡
1	Rim Cylinder	1109	626	YA	087100	
1	Pull	RM201	US32D	RO	087100	
1	Surface Closer (UNI Stop arm)	UNI4400	689	YA	087100	
1	Weatherseal	BY ALUMINUM DOOR SUPPLIER				
1	Sweep	345CV		PE	087100	
1	Updater/Controller	NTX642-KIT (supplied by Division 28)		YA	281500	⚡
1	ElectroLynx Harness	QC-C x LENGTH REQ'D		MK	087100	⚡
1	ElectroLynx Harness	QC-C1500P		MK	087100	⚡
1	Power Supply	AQL4-R8E1		SU	087100	⚡
1	Door Contact	BY SECURITY CONTRATOR				
1	Wiring Diagrams	ELEVATION & POINT-TO-POINT				

Notes: Operational Description: Door is normally closed and locked. Presenting a valid card to the card reader will momentarily retract latch of exit device, allowing entry. Entry also by key in cylinder. Manual egress at all times by pressing rail of exit device and exiting. Pressing rail of exit device will shunt door contact for authorized egress. Door contact monitors the position of the door and reports this status to the security system.

Set: 13.0

Doors: 200 A, 317 A, 318 A, 400 A

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100	
1	Exit Device (rim, passage)	6100F TM628F	630	YA	087100	
1	Surface Closer (REG)	5801	689	YA	087100	
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100	
1	Wall Stop	409	US32D	RO	087100	
1	Gasketing	S88D (head & jambs)		PE	087100	

Set: 14.0

Doors: 106 A, 111 A

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK 087100
1	Storeroom or Closet Lock	MO 4705LN	626	YA 087100
1	Surface Closer (REG)	5801	689	YA 087100
1	Wall Stop	409	US32D	RO 087100
1	Gasketing	S88D (head & jambs)	PE	087100

Set: 15.0

Doors: 109a A, 210a A, 310a A, 410a A

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK 087100
1	Storeroom or Closet Lock	MO 4705LN	626	YA 087100
1	Surface Closer (Stop Arm)	5831	689	YA 087100
1	Gasketing	S88D (head & jambs)	PE	087100

Set: 16.0

Doors: 103 A, 105 A

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK 087100
1	Entry Lock	MO 4704LN	626	YA 087100
1	Surface Closer (REG)	5801	689	YA 087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO 087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO 087100
1	Wall Stop	409	US32D	RO 087100
1	Gasketing	S88D (head & jambs)	PE	087100

Set: 17.0

Doors: 105 B

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK 087100
1	Entry Lock	MO 4704LN	626	YA 087100
1	Conc Overhead Stop	6-X36	630	RF 087100
1	Surface Closer (REG)	5801	689	YA 087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO 087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO 087100
1	Gasketing	S88D (head & jambs)	PE	087100

Set: 18.0

Doors: 104 A

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1	Entry Lock	MO 4704LN	626	YA	087100
1	Surface Closer (Stop Arm)	5831	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Gasketing	S88D (head & jambs)	PE		087100

Set: 19.0

Doors: 102 B, 106a A, 109 A, 117 A, 210 A, 310 A, 402 A, 410 A, 415 A

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1	Passage Latch	MO 4701LN	626	YA	087100
1	Surface Closer (REG)	5801	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Wall Stop	409	US32D	RO	087100
1	Gasketing	S88D (head & jambs)	PE		087100

Set: 20.0

Doors: 102 C

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1	Passage Latch	MO 4701LN	626	YA	087100
1	Surface Closer (Stop Arm)	5831	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Gasketing	S88D (head & jambs)	PE		087100

Set: 21.0

Doors: 107 A, 108 A

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1	Access Control Cyl Lock	MO NTB622-ACC (supplied	626	YA	281500 ⚡

		by Division 28)			
1	Surface Closer (REG)	5801	689	YA	087100
1	Kick Plate	K1050 - 10" x 1" LDW x 4BE x CSK	US32D- 316	RO	087100
1	Kick Plate	K1050 - 10" x 2" LDW x 4BE x CSK	US32D	RO	087100
1	Wall Stop	409	US32D	RO	087100
1	Gasketing	S88D (head & jambs)		PE	087100

Notes: Operational Description: Door is normally closed and locked. Presenting a valid card to the card reader on the lockset will momentarily unlock outside lever, allowing entry. Entry also by key in cylinder. Egress at all times by operating inside lever and exiting.

Set: 22.0

Doors: MISC

45	Software	ACC-SUB-001 (supplied by Division 28)	YA	281500	
500	Credentials	NTX600-YALFOB-8K (supplied by Division 28)	YA	281500	⚡
50	Credentials	NTX600-YALCRD-8K (supplied by Division 28)	YA	281500	
1	Key Management System	T21	TA	087100	
1	Software	ACC-SUB-INIT (supplied by Division 28)	YA	281500	
1	Repair Kit	QC-R001	MK	087100	⚡
2	Updater/Controller	NTX610-KIT	YA	281500	
1	Crimp Tool	QC-R003	MK	087100	⚡
16	Remote Training (HOUR)	SW-503Remote (supplied by Division 28)	MC	281500	⚡
2	Site Training (DAY)	SW-503Site	MC	281500	⚡

END OF SECTION 080671

SECTION 12 35 53.13 - METAL LABORATORY CASEWORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Metal laboratory casework.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 INFORMATIONAL SUBMITTALS

A. Product test reports.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Flammable Safety Cabinet - 45 Gallon - FM Approved - Self-Closing Door - with Legs - 1045SL-50 or comparable product by one of the following or approved equal:

1. Denios.
2. Durham Mfg.

- B. Product Designations: Drawings indicate sizes and configurations of laboratory casework by referencing designated manufacturer's catalog numbers. Other manufacturers' laboratory casework of similar sizes and similar door and drawer configurations and complying with Specifications may be considered. See Section 01 60 00 "Product Requirements."

2.2 CASEWORK, GENERAL

- A. Casework Product Standard: Comply with SEFA 8 M, "Laboratory Grade Metal Casework."
- B. Flammable Liquid Storage: Where cabinets are indicated for solvent or flammable liquid storage, provide units that are listed and labeled as complying with requirements in NFPA 30 by FM Approvals.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.3 METAL CASEWORK MATERIALS

- A. Steel Sheet: Cold-rolled, commercial steel (CS) sheet, complying with ASTM A1008/A1008M; matte finish; suitable for exposed applications.

2.4 AUXILIARY CABINET MATERIALS

- A. Acid Storage-Cabinet Lining: 1/4-inch- thick, .

2.5 CABINET HARDWARE

- A. General: Provide laboratory casework manufacturer's standard, commercial-quality, heavy-duty hardware complying with requirements indicated for each type.
- B. Hinges: Stainless or Epoxy-coated-steel, five-knuckle hinges complying with BHMA A156.9, Grade 1, with antifriction bearings and rounded tips.
- C. Locks: Cam or half-mortise type, brass with chrome-plated finish; complying with BHMA A156.11, Type E07281, Type E07261, Type E07111, or Type E07021.
 - 1. Tumbler: Disc .
 - 2. Lock Locations: Provide on drawers and doors .
 - 3. Keying: Key locks alike within each room; key each room separately .
 - a. Master key for up to 225 key changes.
 - 4. Key Quantity: Minimum of two keys per lock.
 - 5. Master Key System: Key locks to be operable by master key.
 - a. Master Keys: Provide two.

2.6 METAL CABINETS

- A. Fabrication: Assemble and finish units at point of manufacture. Use precision dies for interchangeability of like-size drawers, doors, and similar parts. Perform assembly on precision jigs to provide units that are square. Reinforce units with angles, gussets, and channels. Except where otherwise specified, integrally frame and weld cabinet bodies to form dirt- and vermin-resistant enclosures. Where applicable, reinforce base cabinets for sink support. Maintain uniform clearance around door and drawer fronts of 1/16 to 3/32 inch.
- B. Drawers: Fronts made from outer and inner pans that nest into box formation, without raw metal edges at top. Sides, back, and bottom fabricated in one piece with rolled or formed top of sides for stiffening and comfortable grasp for drawer removal. Provide drawers with rubber bumpers, polymer roller slides, and positive stops to prevent metal-to-metal contact or accidental removal.
- C. Adjustable Shelves: Front, back, and ends formed down, with edges returned horizontally at front and back to form reinforcing channels.

- D. Tables: Welded tubing legs, not less than 2 inches square with channel stretchers as needed to comply with product standard. Weld or bolt stretchers to legs and cross-stretchers, and bolt legs to table aprons. Provide leveling device welded to bottom of each leg.

- 1. Leg Shoes: Black vinyl or rubber , open-bottom, slip-on type.

2.7 METAL CABINET FINISH

- A. Chemical-Resistant Finish: Finish complies with acceptance levels of cabinet surface finish tests in SEFA 8 M. Acceptance level for chemical spot test to be no more than for Level 3 conditions.

- 1. Colors for Metal Laboratory Casework Finish: As selected by Architect from manufacturer's full range .

PART 3 - EXECUTION

3.1 INSTALLATION OF CABINETS

- A. Comply with installation requirements in SEFA 2. Install level, plumb, and true in line; shim as required using concealed shims. Where laboratory casework abuts other finished work, apply filler strips and scribe for accurate fit, with fasteners concealed where practical.
- B. Base Cabinets: Fasten cabinets to utility-space framing, partition framing, wood blocking, or reinforcements in partitions, with fasteners spaced not more than 16 inches o.c. Bolt adjacent cabinets together with joints flush, tight, and uniform.
 - 1. Where base cabinets are installed away from walls, fasten to floor at toe space at not more than 24 inches o.c. and at sides of cabinets with not less than two fasteners per side.
- C. Wall Cabinets: Fasten to hanging strips, masonry, partition framing, blocking, or reinforcements in partitions. Fasten each cabinet through back, near top, at not less than 16 inches o.c.
- D. Install hardware uniformly and precisely.
- E. Adjust operating hardware so doors and drawers align and operate smoothly without warp or bind and contact points meet accurately. Lubricate operating hardware as recommended by manufacturer.

3.2 INSTALLATION OF LABORATORY ACCESSORIES

- A. Install accessories according to Shop Drawings, installation requirements in SEFA 2, and manufacturer's written instructions.
- B. Securely fasten adjustable shelving supports, stainless steel shelves, and pegboards to partition framing, wood blocking, or reinforcements in partitions.

- C. Install shelf standards plumb and at heights to align shelf brackets for level shelves. Install shelving level and straight, closely fitted to other work where indicated.

3.3 INSTALLATION OF SERVICE FITTINGS

- A. Comply with requirements in other Sections for installing water and laboratory gas service fittings and electrical devices.

3.4 CLEANING AND PROTECTING

- A. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.

END OF SECTION 12 35 53.13

SECTION 224010 - PLUMBING SPECIALTIES

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Floor drains.
 - 2. Cleanouts.
 - 3. Hose bibbs.
 - 4. Backflow preventers.
 - 5. Water hammer arrestors.
 - 6. Thermostatic mixing valve.
 - 7. Lead filters.
- B. RELATED SECTIONS
 - 1. Section 221116 – Domestic Water Piping.
 - 2. Section 221316 – Sanitary, Waste and Vent Piping.
 - 3. Section 221413 – Storm Drainage Piping.
 - 4. Section 224000 - Plumbing Fixtures.
 - 5. Section 262800 - Wiring Connections: Electrical characteristics and wiring connections.
 - 6. Division 1 - Summary of Work: Product requirements for Owner furnished equipment.

1.2 REFERENCES

- A. ASME A112.21.1 - Floor Drains.
- B. ASME A112.26.1 - Water Hammer Arrestors.
- C. ASSE 1011 - Hose Connection Vacuum Breakers.
- D. ASSE 1012 - Backflow Preventers with Immediate Atmospheric Vent.
- E. ASSE 1013 - Backflow Preventers, Reduced Pressure Principle.
- F. AWWA C506 - Backflow Prevention Devices - Reduced Pressure Principle and Double Check Valve Types.
- G. PDI WH-201 - Water Hammer Arrestors.

1.3 SUBMITTALS FOR REVIEW

- A. Division 1 - Submittals: Procedures for submittals.
- B. Product Data: Provide component sizes, rough-in requirements, service sizes,

and finishes.

- C. Shop Drawings: Indicate dimensions, weights, and placement of openings and holes.

1.4 SUBMITTALS FOR INFORMATION

- A. Division 1 - Submittals: Procedures for submittals.
- B. Manufacturer's Instructions: Indicate Manufacturer's Installation Instructions: Indicate assembly and support requirements.

1.5 SUBMITTALS AT PROJECT CLOSEOUT

- A. Division 1 - Contract Closeout, Operation and Maintenance Data, Warranties and Bonds: Procedures for submittals.
- B. Project Record Documents: Record actual locations of equipment, cleanouts, backflow preventers, water hammer arrestors, valves.
- C. Operation Data: Indicate frequency of treatment required for interceptors.
- D. Maintenance Data: Include installation instructions, spare parts lists, exploded assembly views.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

1.7 DELIVERY, STORAGE, AND PROTECTION

- A. Division 1 - Material and Equipment: Transport, handle, store, and protect products.
- B. Accept specialties on site in original factory packaging. Inspect for damage.

1.8 MAINTENANCE PRODUCTS

- A. Division 1 - Contract Closeout, Operation and Maintenance Data.

PART 2 PRODUCTS

2.1 FLOOR DRAINS

- A. Floor Drains:
 - 1. Manufacturers:

- a. Josam.
- b. Zurn.
- c. Wade.
- d. Smith.

2.2 CLEANOUTS

- A. Cleanouts:
 - 1. Manufacturers:
 - a. Josam.
 - b. Zurn.
 - c. Wade.
 - d. Smith.

2.3 HOSE BIBBS

- A. Hose Bibbs:
 - 1. Manufacturers:
 - a. Josam.
 - b. Zurn.
 - c. Wade.
 - d. Smith.
 - 2. Bronze or brass non-freeze type with integral mounting flange, replaceable hexagonal disc, hose thread spout, chrome plated where exposed with handwheel, integral vacuum breaker in conformance with ANSI/ASSE 1011.

2.4 BACKFLOW PREVENTERS

- A. Reduced Pressure Backflow Preventers:
 - 1. Manufacturers:
 - a. Watts.
 - b. Zurn.
 - c. Josam.
 - d. Substitutions: Not permitted.
 - 2. AWWA C511; Epoxy coated cast iron body with bronze internal parts and stainless steel trim; two independently operating, spring loaded check valves; diaphragm type differential pressure relief valve located between check valves; third check valve that opens under back pressure in case of diaphragm failure; non-threaded vent outlet; assembled with two gate valves, strainer, and four test cocks.
- B. Double Check Valve Assemblies:
 - 1. Manufacturers:
 - a. Watts.
 - b. Zurn.
 - c. Josam.
 - d. Substitutions: Not permitted.
 - 2. AWWA C510-89 epoxy coated cast iron body with bronze resistant internal parts and stainless steel trim; two independently operating check valves with intermediate atmospheric vent.

2.5 THERMOSTATIC MIXING VALVES

- A. Manufacturer: Symmons.
- B. Other acceptable manufacturers offering equivalent products.
 - 1. Lawler.
- C. Valve: Chrome plated cast brass body, stainless steel or copper alloy bellows, integral temperature adjustment.
- D. Accessories:
 - 1. Check valve on inlets.
 - 2. Volume control shut-off valve on outlet.
 - 3. Stem thermometer on outlet.
 - 4. Strainer stop checks on inlets.

2.6 LEAD FILTERS (Deduct-Alternate, if not required subsequent to water quality testing)

- A. Lead Filters
 - 1. Manufacturers:
 - a. Pentair
 - b. 3M
 - c. Waterdrop
 - 2. NSF/ANSI Standard 53 or NSF/ANSI Standard 58 certified to reduce contaminants by mechanical means.
 - a. Install complete whole-house system to be installed per residential unit in associated mechanical closet before branching off to domestic water heater or any fixture.
 - b. If located outside of residential units, install one filter per plumbing fixture.
 - 3. Building owner/property manager to regularly replace individual filtration systems/filtration cartridges per manufacturer's recommendations.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Extend cleanouts to finished floor or wall surface. Lubricate threaded cleanout plugs with mixture of graphite and linseed oil. Ensure clearance at cleanout for rodding of drainage system.
- C. Encase exterior cleanouts in reinforced concrete flush with grade.
- D. Install floor cleanouts at elevation to accommodate finished floor.
- E. Install approved potable water protection devices on plumbing lines where contamination of domestic water may occur; on boiler feed water lines, janitor rooms, fire sprinkler systems, premise isolation, irrigation systems, flush valves, interior and exterior hose bibbs.
- F. Pipe relief from backflow preventer to nearest drain.

END OF SECTION 224010

Attachment B – Form of Bid 00331-1r1 – Plumbing Construction

Allies & Ross Management and Development Corporation

IFB#2022-37 –G-E-P-M

New Construction of Northview Midrise

ALLIES & ROSS MANAGEMENT AND DEVELOPMENT CORPORATION

**Northview Midrise
AMP - PA001000009**

ARMDC Contract No. 2022-37

**FORM OF BID
PLUMBING CONSTRUCTION**

Contract No.: 2022-37

TO: ALLIES & ROSS MANAGEMENT
AND DEVELOPMENT
CORPORATION
(Hereinafter called the "ARMDC")
100 Ross Street, Suite 200
Pittsburgh, PA 15219

BIDDER:

(Bidder Name)

(Business Address)

(Telephone)

1. The undersigned Bidder, having visited the site, having become familiar with local conditions affecting the cost of the work, **including all City of Pittsburgh current code requirements**, and having become familiar with the Invitation for Bids (the IFB) issued by the Authority, which consists of the following:

- Project Manual, dated **April 4, 2022** containing Bidding Requirements, Contract Forms, Conditions of the Contract, and Specifications
- Project Drawings, dated **March 30, 2022**
- Addenda (if any) as enumerated in this Form of Bid

hereby proposes to provide all supervision, technical personnel, labor, materials, machinery, tools, appurtenances, equipment and services required to construct and complete the Plumbing Construction Work as described in Document 00330 "Scope of Work for Plumbing Construction" and as indicated in the Drawings and Specifications, for the following Firm Fixed Price:

_____ Dollars (\$ _____)
(Insert Bid Price in words) (Insert Bid Price in Figures)

The Bidder shall include in its Base Bid above the following Alternate items: To the extent necessary, ARMDC will determine the application of the Alternates in accordance with Clause 8 of the Instructions to Bidders (HUD 5369).

A. Deduct Alternative No. 005, No. 2: Lead Filters*

(Insert Price in Figures)

2. Bid security [] is [] is **not** submitted with this bid.

(Check one)

Bid Security is in amount of:

_____ % of the bid OR _____ Dollars (\$ _____)

Bid Security is in the form of:

<input type="checkbox"/>	Certified Check	<input type="checkbox"/>	Bank Draft
<input type="checkbox"/>	U.S. Govt. Bond	<input type="checkbox"/>	Bid Bond (Document 00410)

3. The Bidder hereby acknowledges receipt of the following Addenda, if any, as issued by the Authority:

Total number of Addenda _____ (if none, so state)

Addendum No. _____ dated _____ Addendum No. _____ dated _____

Addendum No. _____ dated _____ Addendum No. _____ dated _____

Addendum No. _____ dated _____ Addendum No. _____ dated _____

Addendum No. _____ dated _____ Addendum No. _____ dated _____

Addendum No. _____ dated _____ Addendum No. _____ dated _____

Addendum No. _____ dated _____ Addendum No. _____ dated _____

4. The Bidder attaches hereto the Special Provisions (Document 00021);
5. The Bidder attaches hereto the Statement of Bidder's Qualifications (Document 00420);
6. The Bidder attaches hereto the Section 3 Opportunities Plan (Document 00433), MBE/WBE Solicitation and Commitment Record (Document 00434), Bidder Manpower Plan (Document 00435), and Previous Related Experience (Document 00436);
7. The Bidder attaches hereto the Bidder's Representations, Certifications and Other Statements of Bidders (Document HUD 5369-A), Previous Participation Certificate (Document HUD-2530);
8. The Bidder attaches hereto the Bidder's Special Provisions – Notice to All Prospective Bidders (Document 00437), Non-Collusion Affidavit (Document 00485);
9. The Bidder attaches hereto the completed Form of Agreement (Document 00500);
10. The Bidder attaches hereto the Supplemental General Conditions (ARMDC Document).

PROPRIETORSHIP SIGNATURE PAGE

SHEET - FB-I

(To be used when the Bidder is an individual doing business as a Sole Proprietorship.)

THE BIDDER CERTIFIES THAT THE BIDDER IS:

- ☐ An individual doing business in his/her own name
☐ An individual doing business under a fictitious or assumed name
(Complete Proprietorship Fictitious Name Disclosure below)

SIGNED, SEALED AND DELIVERED

this _____ day of _____ 20 _____.

	_____ (Printed or Typed Name)		_____ (Printed or Typed Name)	
Witness	{	Principal	{	
	_____ (Signature and Date)		_____ (Signature and Date)	

PROPRIETORSHIP FICTITIOUS NAME DISCLOSURE

(To be used when the Bidder is an individual doing business under a fictitious or assumed name.)

_____ is an individual trading under a fictitious or
(Proprietor's Name)

assumed name of _____ and ☐ has ☐ has not registered under
(Fictitious or Assumed Name Used as Bidder's Name) (Check one)

the Fictitious Names Act of Pennsylvania, namely the Act of May 24, 1945, P.L. 967, as amended, 54 P.S. sec. 281.1 et seq.

	_____ (Printed or Typed Name)		_____ (Printed or Typed Name)	
Witness	{	Principal	{	
	_____ (Signature and Date)		_____ (Signature and Date)	

PARTNERSHIP SIGNATURE PAGE

SHEET - FB-P-1

(To be used when the Bidder is an individual doing business as a Partnership.)

THE BIDDER CERTIFIES THAT THE BIDDER IS:

- ☐ A General Partnership (Attach completed Sheet FB-P-3)
 - ☐ Doing business under Partnership Name
 - ☐ Doing business under a fictitious or assumed name
(Complete Partnership Fictitious Name Disclosure Sheet FB-P-2)
- ☐ A Limited Partnership (Attach completed Sheet FB-P-3)
 - ☐ Doing business under Partnership Name
 - ☐ Doing business under a fictitious or assumed name
(Complete Partnership Fictitious Name Disclosure Sheet FB-P-2)

SIGNED, SEALED AND DELIVERED

this _____ day of _____ 20 _____.

<i>Witness</i>	_____ (Printed or Typed Name)	<i>Partner *</i>	_____ (Printed or Typed Name)
{		{	
	_____ (Signature and Date)		_____ (Signature and Date)
<i>Witness</i>	_____ (Printed or Typed Name)	<i>Partner *</i>	_____ (Printed or Typed Name)
{		{	
	_____ (Signature and Date)		_____ (Signature and Date)

* If the Bidder is a partnership, the Bid and Contract must be signed in the name of the partnership by at least two general partners, and the names and addresses of all the partners must be listed on the certificate on Sheet FB-P-3.

PARTNERSHIP FICTITIOUS NAME DISCLOSURE

(To be used when the Bidder is a partnership doing business under a fictitious or assumed name.)

SHEET FB-P-2

_____ is a partnership trading under a fictitious or
(Partnership's Name)

assumed name of _____ and ☐ **has** ☐ **has not** registered under
(Fictitious or Assumed Name Used as Bidder's Name) *(Check one)*

the Fictitious Names Act of Pennsylvania, namely the Act of May 24, 1945,P.L.967, as amended, 54 P.S.sec.281.1 et seq.

<i>Witness</i>	_____		_____
	<i>(Printed or Typed Name)</i>	<i>Partner*</i>	<i>(Printed or Typed Name)</i>
	{		{
	_____		_____
	<i>(Signature and Date)</i>		<i>(Signature and Date)</i>

PARTNERSHIP CERTIFICATE
(To be used when the Bidder is a partnership.)

SHEET FB-P-3

I, as partner of _____,
(Name of Partnership)
certify that the following are the names and addresses of all the partners of said partnership.

Name: _____ Name: _____

Address: _____ Address: _____

City: _____ City: _____

Name: _____ Name: _____

Address: _____ Address: _____

City: _____ City: _____

Name: _____ Name: _____

Address: _____ Address: _____

City: _____ City: _____

Name: _____ Name: _____

Address: _____ Address: _____

City: _____ City: _____

(Use additional sheets as required.)

<i>Witness</i>	_____ <i>(Printed or Typed Name)</i>	<i>Partner*</i>	_____ <i>(Printed or Typed Name)</i>
{		{	
	_____ <i>(Signature and Date)</i>		_____ <i>(Signature and Date)</i>

CORPORATION SIGNATURE PAGE

(To be used when the bidder is a corporation.)

SHEET FB-C-1

THE BIDDER CERTIFIES THAT THE BIDDER IS:

- ☐ A corporation doing business in its own name
☐ A corporation doing business under a fictitious or assumed name
(Complete Corporation Fictitious Name Disclosure FB-C-2)

SIGNED, SEALED AND DELIVERED

this _____ day of _____ 20 _____.

(CORPORATE
SEAL)

(Corporate Name)

(Printed or Typed Name)

(Printed or Typed Name)

Witness

{

President

V.P. **

{

(Signature and Date)

(Signature and Date)

(Corporate Title)

(Corporate Title)

** If the bidder is a corporation, the Bid and the Contract must be executed in the Corporation's correct corporate name by its President or Vice President and attested to by its Secretary or Assistant Secretary or Treasurer or Assistant Treasurer, and the Certification of Corporate Principal (Doc. 00625) must be executed by the Secretary or Assistant Secretary.

CORPORATION FICTITIOUS NAME DISCLOSURE
(To be used when the Bidder is a corporation doing business under a fictitious or assumed name.)

SHEET FB-C-2

_____ is a corporation trading under a fictitious or
(Corporation's Name)

assumed name of _____ and ☐ **has** ☐ **has not** registered under
(Fictitious or Assumed Name Used as Bidder's Name) (Check one)

the Fictitious Names Act of Pennsylvania, namely the Act of May 24, 1945, P.L. 967, as amended, 54 P.S. sec. 281.1 et seq.

<i>Witness</i>	<div style="text-align: center;">_____ <i>(Printed or Typed Name)</i></div>		<div style="text-align: center;">_____ <i>(Printed or Typed Name)</i></div>
	<i>President</i>		
	<i>V.P. **</i>		
	{	{	
	_____ <i>(Signature and Date)</i>		_____ <i>(Signature and Date)</i>

****** If the bidder is a corporation, the Bid and the Contract must be executed in the Corporation's correct corporate name by its President or Vice President and attested to by its Secretary or Assistant Secretary or Treasurer or Assistant Treasurer, and the Certification of Corporate Principal (Doc. 00625) must be executed by the Secretary or Assistant Secretary.

CORPORATION CERTIFICATE

(To be used when the bidder is a corporation)

SHEET FB-C-3

_____ is a corporation organized and existing
(Corporate name used as Bidder name)

under the laws of the state of _____ with its principal place of business at:

_____, _____, _____
(Street Address) (City) (State)

and, if a non-Pennsylvania corporation ☐ **has** ☐ **has not** *(check one)* been granted a certificate of authority to do business in Pennsylvania as required by the Pennsylvania Business Corporation Law, approved May 5, 1933, P.L. 364, as amended, 15 P.S. sec.2005 et seq.

I, _____, certify that I am the ☐ **Secretary** ☐ **Assistant Secretary** of the
(check one)
Corporation named a Bidder herein; that _____ who signed

this Bid on behalf of the Corporation was then _____ of said Corporation that
*(President/V.P.) ***

I know his signature and his signature thereto is genuine; and that said Bid was duly signed, sealed and attested in behalf of said Corporation by authority of its governing body.

*(CORPORATE
SEAL)*

(Signature and Date)

****** If the bidder is a corporation, the Bid and the Contract must be executed in the Corporation's correct corporate name by its President or Vice President and its Secretary or Assistant Secretary or Treasurer or Assistant Treasurer, and the above Certificate must be executed by the Secretary or Assistant Secretary