ADDENDUM
NUMBER FOUR

for

Renovations and Addition

to the

Keystone Regional Youth Center

for the

County of Berks

Invitation to Bid No. 26-16 GR
USA Project No. R2024.0111.01

Dated: 11.23.2026

USA ARCHITECTS, PLANNERS AND INTERIOR DESIGNERS, LTD
1 S. 3rd Street,
Alpha Building, Seventh Fl
Easton, PA 18042

This Addendum is issued for the purpose of amending certain requirements of the Bidding Documents and is hereby made an integral part of the Contract Documents for this project. Statements made herein shall amend, supersede, and take precedence over any conflicting and contrary information contained in previously issued documents including previously issued addenda, if any. Bidders shall acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

CHANGES TO PRIOR ADDENDA:

Item 01: To clarify the change in the submission of the Bid date:

a. In the Instruction to Bidders, change the deadline for Submittal of **Bids** to Friday, December 11, 2026 at 2:00 P.M. Local Prevailing Time. Bids will not be accepted after this time.

b. In the Instructions to Bidders, change the **Bid** Opening Date/Time to December 11, 2026 at 2:15 P.M. Local Prevailing Time. Bids will be opened at this time.

c. A final Addendum will be issued on Monday, December 7, 2026.

Item 02: Reminder that last day for RFI's is November 20, 2026 by 4:00 p.m.

CHANGES TO PROCUREMENT AND CONTRACTING REQUIREMENTS (DIVISION 00):

None

CHANGES TO CONDITIONS OF THE CONTRACT

None

CHANGES TO GENERAL REQUIREMENTS (DIVISION 01):

None

CHANGES TO SPECIFICATIONS:

Item 01: In Division 26, Section 26 32 13 "Engine Generators"; in Article 2.7.B, **DELETE** the word "Walk-In". A walk-in enclosure is not required.

Item 02: **ADD** Section 32 31 13 "Chain Link Fences and Gates", attached hereto.

CHANGES TO DRAWINGS:

None

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CONTRACTOR QUESTIONS AND ANSWERS:

Q01: a.) Addendum 1 did not issue the Allowance GC1 (door hardware) amount. The Bid Form and 01 21 00 3.3.E still read 'to be issued via Addendum'. Please issue the amount.

b.) 01 11 01 refers to an attached 'TWG Scope of Work', 'HC Quality Door information' and 'NRG Scope of Work'. None is in the Project Manual or Addendum 1. Please issue them.

c.) Please define 'BOD' in 01 11 01 paragraph M ('Folger Adams BOD').

d.) Please confirm what the HC Quality Doors set price and GC1 include: delivery, sales tax, hardware and keying schedules, templates, key control cabinets, spare parts, special tools, punch report and Owner training.

A01: a.) There will not be an allowance for door hardware. The bid form and Section 01 21 00 have been modified accordingly.
b.) The NRG scopes of work are included in Addendum #2. The TWG scope is under review and will be addressed by later addendum. The HC Quality Door information is included in the door hardware specification 08 71 00, and contact information has been added to Section 01 11 01.
c.) BOD is an acronym for “Basis of Design”.
d.) Confirm with HC Quality Doors

Q02: The Bid Form says submittals are due the earlier of the date in the Contract Documents or 90 days after Notice to Proceed. Revised A201 9.11.1 says 14 days after Notice to Proceed. Minutes 1.6.4 say submittals must start no later than 10 days after the anticipated Notice to Proceed. Which date governs for the $500 per day submittal liquidated damages, and does it apply to the first submittal or to a complete submittal package?

A02: Submittal log to be reviewed with all Primes and the CM 14 days after signed Contract to establish deadlines and priorities. Established deadlines and priorities will establish start dates of liquidated damages.

Q03: 01 11 05 states Substantial Completion (Certificate of Occupancy) 'on or before one additional month'. Minutes 1.8.3 define substantial completion as work ready for the final Owner, Architect and CM walk-through, not a to-do list. Does any additional month apply before liquidated damages start? Please confirm the definition that governs, and whether a Certificate of Occupancy is required to achieve Substantial Completion.

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A03: A certificate of occupancy is not required for Substantial Completion, however it is required for Final Completion, which is scheduled for 3/31/28 (one month later). Substantial Completion is typically defined as the project is ready for beneficial occupancy by the Owner, and only typical punch list items remain to be completed. Liquidated Damages to start upon date of Substantial Completion.

Q04: Minutes 1.3 list the Subcontractors List, Equipment Suppliers List, Payment Bond, Performance Bond and Agreement of Surety as part of the sealed bid. Minutes 1.6 and the Bid Form say the lists and bonds are due within 7 days of Notice of Intent to Award (Bid Form: 7 days after award notification). Please confirm the Bid Form governs and that the lists and bonds are not required in the sealed bid. Please also confirm that AIA A305-2010 is acceptable in place of the 1986 edition listed in the minutes.

A04: The Subcontractors List, Equipment Suppliers List, Payment Bond, Performance Bond and Agreement of Surety must be provided by the awarded contractors when directed by the County and not as part of the bid.

The bid must include the Bid Bond, Consent of Surety, Substitution List, Non-Collusion Affidavit, Bidder's Qualifications (AIA Document A305, 1986 edition, or later), Bidder's Qualification Form Supplement, Bidder's Financial Disclosure Form, Sample Certificate of Insurance, Worker Protection and Investment Certification Form BOP-2201, and the Commonwealth of Pennsylvania Public Works Employment Verification Form for the Bidder.

Q05: Revised A201 3.7.1 makes the General Contractor apply for and pay the building permit. Minutes 1.8.7 add plan review, inspection fees and municipal licensing.
a) Which municipality and fee schedule apply?
b) Please provide the building permit, plan review and inspection fee amounts, or the basis for calculating them.
c) Which single-purpose permits are assigned to other prime contractors?

A05: The project is located in Bern Township, Berks County. All fees associated with applications, reviews, permits, inspections and similar will be reimbursed directly to the contractor at cost via a post contract award change order. Each prime contractor will be responsible for the permit associated with their scope of work. It is not necessary to add building permit costs to bids, since the costs will be reimbursed. Any required licensing to work in the municipality is the responsibility of the contractor and will not be reimbursed. Please contact the municipality directly for information on licensing. No mark-up will be allowed on permit costs.

Q06: Please confirm whether the attached minutes are part of the Contract Documents and whether they supersede the Specifications where they differ (for example work hours 7:00 am to 4:00 pm, 72-hour notice for after-hours work, the statement that no NPDES or Conservation District permits are required, certified payroll to Dolan Construction, and Procore).

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A06: Minutes are not part of the contract documents, but are attached for information. The plans and specifications shall govern.

Q07: Article 18 now reads 'as may be stipulated in the Contract Documents'. Where are mold requirements stipulated? Is mold remediation in existing areas included in the General Construction contract, and if mold is found, is it handled as an Owner-paid change?

A07: Please reference Section 01 50 00 and requirements for a Moisture and Mold Protection Plan by the General Contractor. At this time, specific mold remediation beyond specified interior or exterior cleaning already included in the Contract Documents is not part of the project.

Q08: a) A-001 note 01.01 refers to 'hazardous materials report(s)' for reference. None is in the Project Manual. Please issue any asbestos, lead-based paint and other hazardous materials surveys for the building and site.

b) Demolition removes floor tile and mastic to slab, masonry waterproofing coating, EIFS band, exterior gypsum soffit, and ceilings, and 09 91 13 requires blast cleaning of existing painted steel. Has the existing material been tested for asbestos and lead?

c) Who engages and pays for abatement, containment, disposal and air monitoring if found, and how are stop-work time and cost treated under 02 41 00 3.2.F?

A08: a.) No hazardous material reports exist for the project.
b.) The existing building was constructed after typical hazardous materials were banned. No testing has been performed.
c.) If any concern is discovered regarding hazardous materials existing in the building from previous construction, the testing and abatement of such materials and any schedule impact will be evaluated at that time based on the situation, as indicated in Section 02 41 00.

Q09: Article 21 says the facility elevator is not available during construction and at-grade entrances and a ramp connect Areas A and B on both levels.

a) May the contractor use temporary hoisting, a material lift or the exterior stairs for upper-level material delivery?

b) Are there floor-load, route, protection or schedule limits on the ramp and stairs?

c) Are the existing dumbwaiters to be used or sealed?

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A09: a.) In concept, yes. Any use of hoisting, lifts, etc. shall not impact the progress of work of other contractors, or have any permanent impact on the building. Any damage or impacts are to be repaired by the responsible contractor to pre-use condition. Refer to requirements in 01 50 00.

b.) As this is an existing building, specific load limits are not available. The contractor should work with the construction manager to determine suitable routes and limits during construction. Please note that all existing to remain surfaces shall be protected from damage during construction. All contractors bear responsibility for protecting existing or installed facilities or work as part of their scope. Refer to Section 01 50 00.

c.) Existing dumbwaiters are to be removed and sealed per the Contract Documents.

Q10: a) Minutes 1.8.8 say work under construction by others will be completed before the prime contractors mobilize. Will the building be fully vacant of residents and staff for the entire General Construction contract, or will any area remain occupied?

b) If any area is occupied, please provide the phasing plan, area sequence, temporary egress, and the required separation between occupied and construction areas.

c) Security requirements for workers and deliveries are requested separately (see the Security Protocols RFI).

d) 01 50 00 1.1.C says 01 11 01 contains work restrictions and utility interruption limits, but none are in 01 11 01. Please state any outage windows beyond the 7-day and 3-day notices in 02 41 00 3.3.

A10: a.) No staff or residents will be in the building during the project. The building is and will be unoccupied.

b.) See above response to Question 10a.

c.) No response needed.

d.) All planned outages shall be coordinated with the construction manager and other prime contractors prior to performing the work.

Q11: ITB Article 17 requires bids to be submitted on the basis of full compliance with the security protocols applicable to the site, 'including, but not limited to, the Security Protocols set forth in the Contract Documents'. No security protocol section or document was found in the Project Manual or Addendum 1. Please issue the protocols, or identify where they are set forth, including:

a) background check or clearance submission requirements and lead time for every worker;

b) daily badge, check-in and tool inventory procedures;

c) escort requirements and ratios;

d) contraband and material inspection rules for deliveries;

e) gate and Central Control processing times and hours;

f) whether the same rules apply to the other prime contractors and the CM.

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A11: The facility is not an active detention facility at this time, and the security protocols identified above are not required.

Q12: Minutes 1.10.1 say a site logistics and temporary fence plan has been provided by the Architect. We found no logistics plan sheet in the bid drawing set. C-100 shows a temporary construction fence perimeter with the note 'confirm final extent with owner' and three double vehicle gates.

a) Please issue the logistics plan or confirm which sheet shows it.

b) Please give the fence type, height, privacy screening and total length to carry.

c) Please confirm trailer, laydown, parking and muster point locations and utility connections for the field office.

A12: a) Please use Drawing C-100. A separate logistics plan will not be issued at this time.
b) The fence type is to be galvanized chain link eight (8) feet tall. The fence shall be self supporting and ballasted. Calculate the length based on the layout on C-100.
c) In general, the trailer, parking and laydown locations will be in paved areas around the facility. The final logistics will be worked out with the successful bidders after award.

Q13: 01 50 00 makes Owner water and electric power available without metering or use charges and assigns temporary water to the Plumbing Contractor, temporary electric service to the Electrical Contractor, and temporary toilets for all contractors, heating and dehumidification (when necessary) to the General Contractor.

a) Please identify the connection points for water and electric service and the available capacity (volts and amps; GPM and PSI) for the construction trailers and work areas.

b) Per 3.3.E.1 the Owner may limit temporary power; what limit applies?

c) The Owner's WIFI is available only in Room A130; please confirm no other internet connection is provided and that no hard connections are available.

d) 01 50 00 3.3.C.2 requires the General Contractor to provide toilets for all contractors; please confirm there is no requirement beyond what is stated for shared facilities (for example dumpsters or field office utilities) to be provided by the General Contractor for the other primes.

A13:

a) Adequate office space is available in the existing building and separate construction office trailers are not required and are not encouraged. In the event a contractor intends to have a separate trailer power is available in reasonable proximity to a trailer location. Water/sewer connections are not available. Contractors are however, encouraged to have on site storage containers.

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b) No reasonable or project related limits are currently anticipated. However, this clause is included to protect the Owner for unreasonable or non-project related usage. For instance, charging of vehicles not used on the project is not permitted.
c) Confirmed
d) Please refer to 01 50 00, and/or 01 11 01 for the requirements of the General Contractor and other Prime Contractors for temporary facilities. The General Contractor has multiple responsibilities for plans and shared facilities.

Q14: Please confirm the intended requirement or issue the missing section for each of the following:

a) 01 21 00 headers read 'Williams Field for the Elizabeth School District' and the section refers to '01 11 00 Summary of Work' (book has 01 11 01).

b) 01 11 01 N.4.b (Electrical) says 'for mechanical work'.

c) 02 41 00 1.2.C refers to Section 31 23 23 (not in book).

d) 05 12 00 1.2.B refers to Section 055100 Metal Stairs (not in book).

e) 07 92 00 refers to Section 01 78 00 Closeout Submittals (book has 01 70 00).
f) 09 65 66 carries a footer from the South Hunterdon Regional School District project and 10 51 18 carries a footer from the Hudson County project. Are these sections issued for this project as written?

A14: Items above will be corrected in the Issued for Construction Set. Information in the above sections are applicable to this project.

Q15: 01 40 00 1.2.A makes the Contractor pay for testing except where the Owner is specifically responsible. Several sections say 'Owner will engage' (03 30 00 3.17.A, 05 12 00, 05 31 00), while others are silent (04 20 00, 07 27 00 ABAA audit, 07 92 00 adhesion tests, 31 23 00 and 31 23 33 compaction and geotechnical observation, 32 12 16). Please provide the Statement of Special Inspections and a list of every test and inspection the Owner will engage and pay for, and confirm that the General Construction prime carries only the remainder, including retests and the auxiliary services in 01 40 00 1.2.A.3.

A15: Quality Control 3rd Party Testing will be provided by the Owner through the Construction Manager.

Q16: 01 11 01 N.1.d and N.1.ii say the General Construction prime patches and finishes remaining finishes for all trades. A-001 note 01.28 says each prime patches its own substrate and the General Construction prime patches exposed finishes. The demolition notes and A-800 note 14 say the General Construction prime patches all existing holes in floors, walls and ceilings. Please confirm that holes cut by the other primes are patched at the substrate by the prime that cut them, and that the General Construction prime

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patches finishes only. Please also state whether pre-cutting of finishes ahead of other primes' demolition (N.1.d) has limits, an allowance, or a notice period.

A16: The intent of the project is that the General Contractor is responsible for all finishes, and therefore all finishes or finished patching throughout the building. Therefore, the General Contractor shall perform preparation of finished areas or areas to be finished or exposed to view, prior to demolition in the area by other trades. The General Contractor is also responsible for patching existing holes in floors, walls and ceilings. Each Prime Contractor is otherwise responsible for their selective demolition and substrate patching. That selective demolition and patching shall be done in coordination with the General Contractor. Again, and as described in Note 01.28 on A-001, where patching involves an area exposed to view, or where the patching will be a finish, such as CMU, the patching shall be by the General Contractor.

Q17: 01 11 01 N.1.s says each prime is responsible for its own installations. N.1.p refers to 'security sealant at all required locations'. Please confirm whether each prime provides its own firestopping and security sealant at its own penetrations, or whether the General Construction prime provides firestopping and security sealant for all primes (and, if so, where is this scheduled).

A17: Each Prime Contractor provides its own firestopping and firestopping sealant. Security Sealant is to be provided by the General Contractor since many areas requiring application will be exposed to view and consistent and quality of application is needed. Please refer to Sections 07 84 00 and 07 92 00.

Q18: a) Please confirm which items get wood blocking (and whether it must be fire-retardant treated) and which get metal backing in metal stud partitions; the sources conflict (A-001 06.01, A-020 note 4, 06 10 00 3.4, 09 21 16 2.2.C, 10 51 18).

b) Do wall-mounted items fasten directly to CMU walls, or is furring required?

c) Wall-mounted furniture and equipment on A-850 and A-850A (D2, S2, S3, AV1 to AV3, TKB, E30 to E34, E37 to E39) need backing; please provide mounting heights, weights and locations, and say whether the General Construction prime provides blocking for Owner-furnished items.

d) Where are the communications and electrical room mounting boards required (06 10 00 1.1.J)?

A18: a) We do not feel that conflicts exist. 06 10 00 is clear on the uses and types of blocking, and the other referenced notes either stand alone or are supported by 06 10 00. The Contractor must make appropriate professional decisions on the types of blocking to be used based on the locations and weights of mounted items.
b) In general wall mounted items on CMU walls can be mounted directly to CMU walls
c) The GC will provide blocking for Owner furnished items. Coordinate with the Owner on the type and amount of blocking needed. Locations and mounting heights for furniture are in the A-850 series drawings or on the schedule. If weights are needed,

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sufficient information is provided on the furniture schedule for a contractor to research weights.
d). Please refer to the Contract Drawings for locations of panels. Mounting boards are required on gypsum board walls.

Q19: The Electrical prime is assigned excavation for its exterior conduit and generator. The Mechanical prime owns underground gas piping, but 01 11 01 does not say who excavates for it. Please confirm who excavates, beds, backfills and restores paving for gas, water, sewer and conduit work of the other primes, whether 31 23 33 2.2.C applies on this private site, and who hauls the spoil.

A19: Each contractor is responsible for their excavation and backfill, and removal of spoils. Restoration of finishes is by the GC. All work is to be coordinated among contractors.

Q20: Bids are due in November 2026 with on-site work starting about January 2027. Cold-weather concrete and masonry need heat, enclosures and protection. Please confirm whether these costs belong in the base bid or an allowance, and whether the permanent HVAC system will be available to condition spaces for the 48-hour pre-test period required by 09 05 61 1.7, or whether temporary conditioning is in General Construction scope. 01 50 00 3.3.D.1 lets the Mechanical Contractor manage use of the existing HVAC system, while 3.3.D.2 and 3.3.D.3 make the General Contractor provide temporary dehumidification and heating 'should it become necessary'. Who pays fuel and energy for existing-HVAC use, and what triggers the General Contractor's obligation to provide temporary systems?

A20: Any cold weather work and required protection or temporary conditioning on the exterior of the building or in conjunction with construction of the addition is by the contractor needing the protection or conditioning. The separate de-centralization project in the building has been completed, and it is the intention of the Owner to utilize the permanent HVAC system in the building for conditioning of the building at his cost throughout the project. However, in the event situational or temporary conditioning is required, the GC is to provide the conditioning required. No allowance is to be provided. Please review the requirements of 01 50 00 for use and protection of the permanent HVAC system.

Q21: Demolition keynote 30 says 'remove existing kitchen equipment in its entirety' and keynote 28 removes the existing counter. A-165 shows items 1, 3, 4, 5, 6, 9, 11, 12 and 19 as existing to remain (including the hood, Ansul system, three-bowl sink, dishwasher and walk-in box). Which governs? Please list the items removed, the items protected and kept, who disconnects and caps utilities, and where removed equipment goes. Does removal of the existing dumbwaiter (keynote 29) affect the kitchen?

A21: Neither Keynote 28 or the dumbwaiter Keynote 29 are in the kitchen or related to the kitchen and do not apply to the kitchen. Please refer to the schedule on A-165

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delineating equipment which is to be existing or new, and therefore whether to remain or be replaced.

Q22: a) Where does the Owner want salvaged ceiling tile, doors, hardware, lights, diffusers, sprinkler heads, smoke detectors and basketball hoops delivered and stored, and how are they tagged?

b) Who reinstalls lights, diffusers, sprinkler heads and smoke detectors?

c) Keynote 14 removes ceilings without salvage and keynote 15 salvages tile; which rooms are which?

d) Ceiling keynote 17 and note 9 replace in kind security, hard and acoustical ceilings affected by sprinkler piping replacement: please give the quantity or an allowance, and confirm whether the General Construction prime carries the repair even though the fire protection prime causes the work.

A22: a.) Salvaged items to be stored onsite at a predetermined space, to be determined at the time of demolition. Any labeling will be determined at that time as well.
b.) The corresponding prime trade contractor.
c.) Rooms are tagged with either Keyed Note 14 or Keyed Note 15 in the bid documents.
d.) As noted, the GC is to remove and replace ceilings in kind affected by sprinkler piping replacement per keyed note 17. Please refer to the fire protection (FP) drawings, which call out the areas (keyed note 5) to have the existing sprinkler piping and heads converted to a dry pipe system.

Q23: a) Which finish applies to each member type: galvanized only, galvanized and painted, or shop primed only? Who touches up and paints exposed galvanized steel?

b) 05 50 00 2.1.B calls for A283 plate while 05 12 00 calls for A36.

c) 05 50 00 2.4 specifies cast iron downspout boots, 07 62 00 lists steel boots. Which section governs, and how many boots are needed?

A23: a.) The contractor providing the galvanized steel is responsible for finishing the galvanized steel per the documents.
b.) The plate types are named in two different types of steel sections. Provide the type of plate specified in the applicable section pertaining to the work in question.
c.) Use the type of boot appropriate for the pipe connected to. (ex. Cast iron boot for cast iron pipe).

Q24: A-140 shows a roof access ladder with a lockable panel. S-103 note 5 refers to roof hatch locations, and no roof hatch section is in the book.

a) Is there a roof hatch or only the ladder and panel?

b) What is the ladder height, and is a safety cage or self-closing gate required?

c) 05 51 33 requires an IAS AC172 fabricator; will the named aluminum ladder manufacturers be accepted?

d) Who furnishes locks, and does the Owner want keyed-alike detention locks?

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e) 07 72 00 covers only roof curbs: which curbs does the General Construction prime furnish (access, skylight, smoke vent) versus equipment curbs?

f) How many roof accesses are there for the roof maintenance sign (10 14 23)?

g) The A-140 roof legend shows mechanical equipment on curbs and supports, pipe portals, pourable sealant pockets and plumbing vent pipes 'see MEP'. Does the General Construction roofing trade furnish and set curbs, pipe portals and pitch pockets for Plumbing, HVAC and Electrical roof penetrations, or do those primes furnish them for General Construction to flash?

A24: a.) Ladder and Panel
b.) Refer to A-300 Elevations for height. Self closing panel.
c.) The named manufacturer's will be accepted assuming the product submitted meets the spec requirements.
d.) Owner will furnish a lock.
e.) Each Prime Contractor is to furnish curbs associated with their equipment.
f.) 3.
g.) See response to (e). The GC is to provide flashing at all penetrations. Each Prime contractor shall provide manufactured flashing accessories specific with to their equipment.

Q25: a) 06 10 00 and 07 31 13 and 07 54 23 send nailers, blocking and decking to Section 06 10 00, while A-140 says 'provide' FRT nailers, rafter framing, 3/4-inch FRT plywood, curbs and cants within the roof scope. Which trade furnishes them?

b) Plywood: 06 10 00 2.4.A and S-002 say 5/8-inch CDX Exposure 1; S-103 note 2 says 3/4-inch APA rated; A-140, A-145 and A-430 say 3/4-inch FRT. Please confirm 3/4-inch FRT at every new roof deck, parapet and wall sheathing location.

c) Species and grade: 06 10 00 says Spruce-Pine-Fir (South) with Utility blocking; S-002 says No. 2 Southern Pine or SPF with no stud grade. Which governs?

d) A-001 note 06.02 requires pressure treated wood at masonry and roofing, while 06 10 00 and A-140 require FRT at roofing.

e) A-140 says blocking heights are field verified; is there a unit price?

f) Who sets anchor bolts and grouts CMU cells at nailers and coping blocking (A-145 detail H) and are post-installed anchors required at existing CMU?

g) Where is wood stud wall framing and plywood sheathing required (06 10 00 2.4.B)?

A25: a.) The General Contractor.
b.) The referenced spec section 5/8" unless indicated otherwise. If indicated otherwise as ¾". Provide ¾".
c.) The requirements of 06 10 00 shall govern, although SPF will be accepted meeting the specification in all other categories. the Contractor shall use the species appropriate for the application.
d.) To be safe, the blocking associated with the roof should be FRT.
e.) No. Refer to roofing details on A-145 and A-146.
f.) The General Contractor
g.) Refer to the bid documents.

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Q26: There is no wood truss specification section.

a) Please confirm the pre-manufactured wood truss package at the addition (24 inches on center, 24 inches deep minimum) is furnished, erected and braced by the General Construction prime's carpentry trade.

b) Please confirm the design loads on S-002 (39 psf snow, 15 psf dead top chord, 10 psf bottom chord, 5 psf additional at built-up areas; uplift 18 psf interior and 30 psf exterior).

c) Is the Pennsylvania-sealed truss shop drawing review by the Engineer of Record?

d) Who designs and coordinates roof penetrations and supplemental framing (S-103 note 5) when the mechanical and plumbing rooftop locations are by other primes?

A26: a) The wood trusses are the responsibility of the General Contractor.
b.) Please use the design loads on S-002 under Pre-engineered Wood Truss Notes as a baseline for truss design. The truss design engineer shall verify all loads as part of the delegated design process.
c.) The truss design is a delegated design and is to be sealed by the engineer designing the trusses. The project Engineer of Record will not seal the truss design.
d.) All contractors are responsible for coordinating their work with other contractors. The General Contractor is the overall coordinating contractor for the project. The General Contractor is responsible for framing and for roofing.

Q27: a) S-103 says 'provide over-framing above existing roof, coordinate with architect for extents and sloping requirements. Who designs and sizes it, and what are the extents?

b) S-400 section 2B requires reinforcing existing roof trusses at hanger locations with plywood gussets and field-verified hangers. How many trusses are affected?

c) What is the condition of the existing wood deck, rafters and fascia under the shingles that will be exposed? Is there an allowance or unit price for rotted deck, rafter or fascia replacement?

A27: a.) The referenced note refers to the valley framing needed to tie the new addition roof into the existing roof. Refer to the A-140 series drawings for details.
b.) This is to be coordinated in the field with other prime contractors.
c.) The condition of existing roof substrate has not been verified. Confirmation and cost associated with any repairs or replacement will be addressed during construction.

Q28: a) 06 41 00 names only 'approved equal'; can any AWI QCP accredited fabricator bid?

b) 06 41 00 2.9.G specifies a transparent finish but A-750 shows only PL-1 laminate and melamine. Is any transparent-finish wood casework, trim or veneer intended?

c) Shelf drilling: 1-inch spacing (2.8.B) versus 1-1/2 inch and 1/2 inch on A-750; which governs, and is 40 psf loading at all adjustable shelves required?

d) Cabinet locks: who sets the master key system, and does it tie to the Owner's detention key system?

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e) Detention-area casework (A219, A247, B225, B204, A273): is security grade, tamper-resistant fastening, ligature-resistant hardware or security sealant required?

f) Countertops: does the job include laminate counters (12 36 00 lists only solid surface)? Solid surface edge: 1-1/4 inch (spec) or 1-1/2 inch (A-750)? Are bowls integral or plumbing fixtures? Is Formica the basis of design?

g) Who furnishes Rakks brackets, grommets and the power and data cut-outs at counters?

h) Are dimensions V.I.F. and when will final room measurements be available?

A28: a.) Yes, assuming the products and manufacturer meet all other requirements of the Documents.
b.) See drawings for scheduled finish type/color. Where exposed interior or exterior surfaces do not get laminate or melamine, provide a transparent finish per 06 41 00.
c.) Comply with the specification.
d.) The locks are not detention locks. The manufacturer shall provide master keys.
e.) Casework in the referenced rooms is typical architectural casework. any edges/gaps shall be sealed with security sealant. Concealed fasteners do not have to be tamper resistant. Exposed fasteners should be.
f.) Please refer to the Documents
g.) The General Contractor
h.) V.I.F is an acronym for Verify in Field and is the responsibility of the Contractor.

Q29: Where is fireblocking or draftstopping required, and is the 2x6 wood stud infill between existing trusses on A-430 a draftstop or a separation wall? Who supplies it?

A29: Refer to the documents for description of locations requiring firestopping or draftstopping and the requirements for such. The referenced location on A-430 was not located to respond.

Q30: a) S-001 says structural sheets do not address waterproofing. Please confirm Division 07 covers foundation waterproofing including water barrier plates at form ties.

b) 07 14 00 refers to fluid-applied waterproofing at openings (Henry CM100) while the details show self-adhered flashing; where is each used?

c) 07 14 00 3.5.B requires daily presence of the roofing and insulation manufacturer's representative; does this apply?

d) Is there a horizontal membrane that needs the 48-hour flood test?

e) 07 21 00 2.1.A calls for XPS under slabs but the sections show none. Is under-slab insulation required?

f) Drawings say R-9.5 minimum for foundation insulation; 2-inch XPS is R-10; please confirm thickness.

g) Where do mineral wool and glass fiber batts apply, and where is the polyurethane thermal break board (2.2.C) used?

A30: a.) Confirmed.

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b.) The waterproofing is to be fluid applied. The note on A-430 will be updated accordingly.
c.) No.
d.) All showers need flood testing.
e.) Refer to A-400 for details on underslab insulation.
f.) 2"
g.) Mineral and glass fiber batts are generally intended for wood framing cavities. The thermal break board does not have a specific application on the project, but is included if a situation exists where it could be used.

Q31: a) Is the air barrier the self-adhered sheet or the fluid-applied membrane, or is either acceptable?
b) Which prime installs and tests the weather barrier before masonry (04 20 00 3.1.D), and how is it sequenced with the ABAA audit?
c) 07 46 46 3.3.B refers to steel studs but A-430 shows wood framing at the addition; which substrate is intended?
d) Who holds the 10-year rainscreen assembly warranty when several trades install the assembly?

A31: a.) As noted under 07 27 00, either is acceptable at the locations indicated.
b.) Masonry work and weather barriers are the responsibility of the General Contractor. Any testing shall be coordinated by the General Contractor in conjunction with the CM/Owner.
c.) Wood is detailed.
d.) The General Contractor. All work is by the General Contractor.

Q32: a) 07 31 13 3.6.C requires closed-cut valleys while A-051 and A-140 call for closed woven valleys. Which governs?
b) 07 31 13 2.11 lists galvanized steel, copper or aluminum flashing; the details show stainless steel step flashing and counterflashing. Which governs?
c) A-140 note 17 requires the contractor to walk the existing roofs and repair, replace and add shingles. Is there a quantity, allowance or limit, and does it relate to Unit Price GC-05? Does the Golden Pledge warranty cover only new work or also the existing roofs?

A32: a. Woven is preferred on this project to match the existing roofs.
b.) Stainless steel flashing is preferred as detailed.
c.) It relates to unit price GC-05. No warranty is expected on the existing roof. The standard workmanship warranty applies to the replaced or repaired shingles.

Q33: References A-140 additional general requirement 21; Unit Price GC-06
Note 21 asks the contractor to check the existing lightning arrest system and replace broken or damaged points. Is there a lightning protection specification, who is the qualified installer, and does Unit Price GC-06 apply to additions and deductions to the arrestor point count? How many points exist?

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A33: There is no lightening arrestor specification as it is an existing system. No count exists, which is the reason for the unit price GC-06. GC-06 is to be used to compensate the contractor for the replacement of arrestor points. A subcontractor who provides suitable qualifications and experience in lightening arrestor systems and installations will be required. Approval is required prior to the work.

Q34: References - 07 62 00 2.3.A; A-140 note 10; A-301 to A-303 keynote 9; 05 50 00 2.4; 01 11 01 N.1.m, N.1.ee, N.2.j

a) Are gutters and downspouts fabricated rectangular profile per 07 62 00 2.3.A, or pre-manufactured to match existing as stated in A-140 note 10? Please confirm the size and profile at the addition.

b) Who provides precast splash pads at existing downspouts, and how many?

c) Keynote 9 extends existing downspouts below grade and ties them into existing storm drainage 'see civil'. Which prime furnishes the pipe and makes the tie-in? 01 11 01 gives the General Construction prime the connection to existing piping and leaders and boots, and gives Plumbing roof drains and interior conductors.

A34: a.) Gutters and downspouts are to match existing. Gutters are K style gutters. Size downspouts to match existing where connection to existing, or size per the requirements of Section 07 62 00 where independent.
b.) The General Contractor is to provide splashblocks if necessary, but this is incidental as the majority including the addition gutters are piped to underground piping.
c.) In the case of the referenced keynote 9, the General Contractor is to provide underground piping. The referenced information in 01 11 01 for the Plumbing Contractor pertains to interior piping to a connection point outside of the building.

Q35: References - 07 42 93; 07 71 00 2.1.A, 2.1.E.1; A-310; A-202; 09 21 16

a) Is the existing soffit aluminum, and does the new soffit have to match its profile or use the ATAS 12-inch V-groove panel? Which areas are vented (MPV120) and which solid (MPS120)?

b) 07 71 00 2.1.E.1 has a blank color for the pipe penetration seal.

c) 07 71 00 2.1.A specifies formed aluminum copings but A-310 shows a cast molded aluminum coping; which governs?

d) Please confirm the board type and framing for replaced exterior gypsum soffits (09 21 16 has no exterior product).

A35: a. Where soffit is being replaced, match existing in style and color. New soffit at the addition is to be vented and meet the requirements of 07 42 93. See reflected ceiling plans.
b. Outlet cover to match surrounding wall color. Submit standard colors to architect for approval.
c. Cast molding on A-310 refers to the signage. Copings to be formed aluminum.

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d. Exterior grade gypsum board. Framing to be as required to support the board and finish and as dictated by field conditions.

Q36: References- 07 92 00 1.4.C, 2.1.B, 2.1.F; A-020 note 10; 32 12 16 3.5; Unit Price GC-02

a) 'Security sealant' and 'pick-resistant sealant' appear on the drawings while 07 92 00 2.1.F names tamper-resistant polyurethane (Pecora Dynaflex). Are they the same product, and which areas are 'secure areas'?

b) 07 92 00 2.1.B calls for self-leveling polyurethane at paving joints while 32 12 16 3.5 says 'mastic joint sealant'; which governs and which section carries it?

c) Does pick-resistant sealant apply at accessories, mirrors, lockers, shower seats and toilet compartments?

A36: a.) Tamper resistant and pick-resistant are used interchangeably for the same type of sealant. See the response to question (c).
b.) The referenced sections and sealants pertain to different applications and paving. Use the sealant appropriate sealant for the appropriate location.
c.) All areas accessible to inmates are to receive pick resistant sealant, including accessories.

Q37: References - 07 05 53 2.2.C, 3.3.A.1; 09 91 23

a) Does the marking requirement apply to existing rated walls in concealed spaces that are not being touched?

b) 07 05 53 2.2.C sends stencil paint to 09 91 23, but 09 91 23 lists none. Which trade and product, and how many linear feet?

A37: a.) Please label walls indicated as having a rating on Drawings A-012 through A-015.
b.) General Contractor to provide wall labeling. Labels can be either pre-printed or painted stencil per 07 05 53. Use interior paint specified for substrate to be painted. Comply with requirements of 09 91 23 for paint and application.

Q38: References - 08 11 13 2.1.B, 2.3.E, 2.4.F, 2.6; 11 10 92 1.4.D.1, 3.1; Door schedule legend A-600 to A-602

a) 11 10 92 refers to Section 11190 'Basic Detention Equipment Requirements' and Section 11191 'Security Hollow Metal'; neither is in the book. Are security doors and frames fully defined by 08 11 13 and the schedule legend (S-1: 12 gauge door, 10 gauge frame), or is a section missing (pass-resistant details, anchors, fasteners)?

b) 08 11 13 2.1.B lists bullet-resistant doors and frames (Mesker BR Series); is any bullet-resistant door required, or only G-7-L3 glazing?

c) Which finish applies to door window frames and glazing stops, and who furnishes them for G-7 lites?

d) Who prepares existing doors and frames that remain for new hardware, and is a quantity or allowance intended?

e) Who sets and grouts HM frames in masonry?

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f) For openings 'proposed door in existing frame' at exterior locations, does 2.3.B (insulated, thermally broken) apply?

A38: a.) Section 08 11 13 describes the requirements for security doors and frames in conjunction with the Door Schedule. Installation methods shall match the specification and the application.
b.) Doors are to meet the requirements of 08 11 13 pertaining to the construction type identified in the door schedule.
c.) The finish is to be the same as the doors. The General Contractor is responsible for doors, frames, and glazing.
d.) The General Contractor is to make modifications. Please note that doors requiring significant modifications are being replaced, and doors to remain getting new hardware are just receiving blank off plates to hide holes, and prep is limited.
e.) The General Contractor.
f.) Yes.

Q39: References - A-001 note 08.01; A-602; A-610; A-011 (408.7); 08 80 00
The glazing notes require fire-rated glass in doors and borrowed lites in rated walls that are not security doors, but 08 80 00 has no fire-rated or wired glass type. Which openings need fire-rated glass, which use G-7 security glazing under 408.7, and what product is intended (for example rated doors with G-7-Gr1 lites at 20 and 45 minutes)?

A39: Reference the door schedule for doors with security ratings. Per the referenced note, fire rated glass is required in non-security doors in fire rated walls. Per the current door schedule, the doors in rated walls are either existing to remain or security doors and no new fire rated glass is needed.

Q40: References - A-800 notes 10, 11, 12; 09 65 00 2.2.A.5, 3.4.C, 3.6.B; 09 68 13; A-801 to A-804

a) VCT-1 (janitor closets) and SDT-1 (electrical and IT rooms) are in A-800 notes but not in the legend or 09 65 00. What are they?

b) Confirm the LVT-1 product and pattern (18x18 PCWE Color Weave C163 Pewter, basket weave with half-tile perimeter).

c) Where is B-2 base required and what finish?

d) What transitions apply at carpet to LVT, resilient to fluid applied, and fluid applied to painted concrete?

e) Is wax or sealer required only when the manufacturer recommends it?

f) Walk-off mat WOF-1 is a 'new insert for existing recess' while the spec says recess mounted with no frame; how many, and who verifies recess depth?

A40: a) Previously addressed
b) LVT-1 is listed in the finish schedule
c) B-2 is located in Room B104 as per the finish plan. Base does not require a finish.
d) Finish transitions are on sheet A-800
e) Yes

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f) Contractor to confirm depth of recess.

Q41: References - 09 65 66 1.x, 3.1; A-800; Addendum 1 Q&A Q04

a) Is the multi-purpose room slab new or existing? If existing, who verifies FF 50 and FL 30 flatness and pays for grinding?

b) Please confirm the 98 percent RH limit governs RAF-1.

c) Addendum 1 approved DynaForce 7+2 (9 mm); does the same installation and moisture requirement apply, and are the A-800 grass green 93 and yellow 95 the full color list?

d) Please provide court dimensions, number of courts and line layouts for basketball and volleyball, or a unit price for lines.

e) The system table lists ASTM E648 Class 2; does it meet the Class I or II finish requirement on A-011?

f) Who is the 'End User' who receives the moisture reports?

A41: a) Existing slab. Installer to confirm slab conditions prior to installation.
b) Refer to product spec
c) DynaForce colors to match Green and Yellow
d) Game lines shall be standard 2" wide. Hold regulation distances as close as possible. Provide shop drawing for final approval.
e) Yes.
f) The Owner in addition to the others named.

Q42: References - 09 67 00 1.2.A, 1.3.A, 1.5.D, 1.9, 2.2.B, 2.3; A-800 (FAF-1, FAF-2, FAW-1, P-1, PC); A-803

a) FAF-1 is Benjamin Moore '708 Cedar Mountains' but P-1 and PC are '706'; is 708 a typo?

b) The specification has text errors ('Section 2.01.A', 'Urecon Chop 100' versus 'Chip-100', garbled 1.2.A). Please confirm the intended products.

c) Which rooms get which non-skid texture, and is FAF-2 limited to the kitchen, freezer and storage?

d) Who forms the shower floor slope?

e) What is the substrate and height of FAW-1, and is Level 5 finish required behind it?

f) Is an in-place sample required and is a manufacturer warranty expected for the kitchen floor?

A42: a) previously addressed
b) Urecon Chip 100
c) all FAF and PC floors require slip additive
d) Installer forms slope
e) FAW-1 is full height, no Level 5 finish. Substrate is CMU
f) Provide in place sample, all finishes are expected to have a warranty.

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Q43: References -10 26 00 1.2.C.1, 3.2.B; A-001 notes 10.01, 10.03; A-850A (E34, E37, E38, E39, TKB); Selective finish plan note 1

a) Are corner guards required (samples are required in 1.2.C.1 but no product is in Part 2)?

b) What height and top-edge detail apply to WP-1?

c) Joints: caulked (3.2.B.4) or welded (3.2.B.5), and which locations?

d) Does WP-1 start at the top of the 6-inch integral base?

e) Confirm no door protection is required in Division 10.

f) Gym wall pads (E34, A-001 note 10.01): is there a specification, who furnishes and installs, and what heights, lengths, quantity, color and mounting method?

g) E37 AED cabinet, E38 naloxone cabinet, E39 ligature-resistant phone and TKB tack board have no specification: who furnishes and installs, and at what heights and quantities?

h) A-001 note 10.03 lists folding walls, projection screens and wall clocks; are any in scope?

A43: a.) no corner guards
b.) full height WP-1 where indicated on finish plan.
c.) caulked joints
d.) WP-1 starts at the top of the base
e.) no door protection
f.) E34 product + manufacturer are in the legend. Provided and installed by GC as per the legend. Color to be selected from standard manufactures color options. Standard 60”Hx24”W.
g.) The General Contractor shall provide the equipment noted. Refer to the schedule on A-850A for mounting requirements. In lieu of a specific mounting height in the schedule, mount the cabinet at 48" AFF to the operable portion of the device/cabinet.
h.) Confirm furniture and equipment locations as per plans. Folding partition is existing to remain.

Q44: References - A-850 Furniture Schedule - Basis of Design; A-850A Equipment and Audio Visual Schedule; A-001 notes 10.01, 12.01; 12 (no furniture section)

a) A-850 marks the General Construction prime as supplier and installer for nearly all seating, desks, storage, lockers, tables and miscellaneous items (including mattresses with 12 additional mattresses as attic stock), with existing items C13, C14 and C17, and with S6 charging cart 'provided by school district'. Please confirm that the General Construction prime furnishes and installs the complete A-850 furniture schedule, and which specification section governs (no Division 12 furniture section exists).

b) Many finishes are 'TBD'. When will finishes be issued, and is the schedule 'schematic' per A-001 note 12.01?

c) Please give quantities by tag from the plans.

d) Please issue a supplied-by and installed-by matrix for every A-850A tag (E9 to E39, AV1 to AV3, TKB, MB), including the items marked 'TBD' (AV1 to AV3, E9 to E12).

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e) Existing equipment to be reinstalled or relocated (E13 to E33, basketball hoops, climbing wall, speed ball, punching bag): who removes, stores, relocates, remounts and repairs, and what blocking is required?

A44: a) Furniture and Equipment is provided and installed as per indicated in the legend.
b) Finishes marked TBD will be selected from standard manufacturers color options.
c) Quantities are responsibility of the contactor.
d) See sheet A-850A
e) As per legend these items are provided and installed by owner.

Q45: References - A-051 to A-054 keynote 29; Revised ITB Article 21
Demolition removes existing dumbwaiters, frames and overhead doors, and the facility elevator is unavailable. Are the dumbwaiter shafts and openings to be filled, closed off or patched by General Construction trades, and is any elevator or machine room work (finishes, door frames, rated enclosure, firestopping) in the General Construction contract?

A45: The General contactor is to remove the existing dumbwaiter and equipment in its entirety and close off the existing openings.

Q46: References - C-103 roof drain system P-1 to P-12 and CO-1 to CO-6, RD-2; 31 23 33 2.1.A, 2.1.B, 2.2.A, 2.2.B, 3.8.B; A-301 to A-303 keynote 9
a) The book has no pipe, structure or manhole section for storm, roof drain or sanitary piping, and 31 23 33 3.8.B refers to one. Please state the pipe materials, joints, structures (inlets, cleanouts, manholes) and testing for the C-103 roof drain system.
b) C-103 shows a 'TBD' length for RD-2 and existing utility conflicts without depths, and a sanitary sewer crossing. Please provide lengths, depths and how conflicts are resolved.
c) 31 23 33 bedding lists AASHTO No. 8 for rain leader systems and No. 57 and 2A for storm sewers with PVC Schedule 40; which applies?
d) 31 23 33 is written for municipal work (County approval, Highway Occupancy Permit, Standard Details); which of these apply on this private site?

A46: a) Schedule 40 PVC with standard slip socket joints shall be used for the underground roof drain system. The design does not propose any manholes or other structures. No testing of the underground roof drain system will be required.
b)The 'TBD' length has been revised to 5.00'. The condensate line and steam line are going to be abandoned. Based on the utility probe information and the sewer invert elevations, no conflicts with the water lines and sewer lateral are anticipated. Any conflict that is encountered will be specifically evaluated and addressed in the field.
c) AASHTO No. 8 aggregate shall be used for the underground roof drain system.
d) While the project is not a PennDOT project, the site work shall be conducted in accordance with PennDOT Publication 408, latest edition.

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Q47: References - C-100 to C-104; 02 41 00 3.1.B, 3.1.C; 32 12 16 3.2, 3.5, 1.4.A; 31 23 00 3.5

a) 02 41 00 3.1.C removes 'all other paving and curbs within site boundaries'; does this mean all paving on the property or only the areas on C-100?

b) Please give square yards and limits for each paving item: full-depth reconstruction (including the sallyport), overlay, crack seal, seal coat and restripe; C-100 shows these areas with no quantities.

c) Is the outdoor recreation area 'mill 1.5 inches and replace with 1.5 inches 9.5 mm WMA wearing course', and is a tack coat or base repair included?

d) Basketball court resurfacing and restriping: system and layout?

e) C-sheets show expansion joint replacement at two locations; what extent?

f) Which paving and concrete tests are required, and who pays?

g) PennDOT publication references in 32 12 16 1.4.A appear garbled; which editions apply?

h) May asphalt be placed in the 2027 season before the building is complete, or must it wait for a final paving phase, and when does the one-year maintenance period start (32 12 16 3.1.C)?

A47: a) Curb and pavement removal shall be limited to the locations indicated on Sheet C-100.
b) The scaled drawings shall be used to determine the quantities. Sheet C-104 specifies a quantity of 0.03 gallons per square yard for crack sealer.
c) Tack coat is not required and the need for base repair is not anticipated.
d) The resurfacing consists of milling off the existing 1.5” of pavement and replacing it with 1.5” of 9.5mm Superpave WMA wearing course. The restriping layout should match what is depicted on the plans. The lines shall be 2” wide using standard waterborne traffic paint in accordance with PennDOT Publication 408, latest addition.
e) Any expansion joint replacement relative to the site work will be limited to where new curb and sidewalk is being constructed in the sally port area.
f) No testing will be required for the paving. Testing for the concrete shall be required in accordance with PennDOT Publication 408, latest addition. The contractor will be responsible for the cost of the testing.
g) Any references to PennDOT Publications shall be assumed as the latest edition(s).
h) The contractor will not be required to complete the paving at any specific time, provided that the paving is completed in accordance with all applicable requirements and within the allotted contract time. The one year maintenance period will not begin until all of the construction associated with the project is complete.

Q48: References - 32 12 16; 03 30 00; C-100 to C-104 (3 sets of concrete stairs to be reconstructed, weep-hole regrade 250 SF); S-300 stair at grade

a) 32 12 16 specifies PennDOT Class A and S-001 specifies 4,000 psi for exterior slabs and curbs; is air entrainment and a deicing-resistant mix required?

b) What welded wire mesh size is required for sidewalk, is curb reinforced, is the 18-inch curb height total depth, and are dowels or isolation joints required at the building?

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c) 01 11 01 lists concrete paving including sidewalks and ramps, but no ramp, curb ramp, detectable warning, handrail, dumpster pad or apron detail was found. Where are they detailed?

d) C-sheets show three sets of concrete stairs to be reconstructed; please give the tread and riser count, rail requirements and demolition limits.

e) Please confirm the regrade at the weep holes (250 SF) and how it is finished.

A48: a) PennDOT Class A concrete should be used for the new curb and sidewalk in the sally port area. The mix design will need to comply with PennDOT Publication 408, latest edition. The concrete that is used for the stairs shall comply with the applicable requirements of the structural plans and specifications.
b) The welded wire mesh shall be 6”x6”. The curb is not required to be reinforced. The total curb height is 18”. An isolation joint should be provided at any location where curb or sidewalk abuts the building.
c) The plans do not propose any exterior concrete ramps, therefore, no detectable warnings and exterior handrails are required. The plans do not propose any dumpster pads or concrete aprons.
d) The design information for the exterior concrete stairs is provided on the structural drawings.
e) The grading will be limited to the minimum amount required to expose the weep holes. The “finishing” will be limited to respreading topsoil and seeding.

Q49: References - 05 50 00 2.3.A; C-100 to C-104 (10 existing bollards and hydrant to repaint, 6 new bollards); 32 17 23; 32 12 16

a) 05 50 00 2.3.A calls for concrete-filled steel pipe bollards 'as detailed', but no bollard detail was found. Please give pipe size, wall thickness, embedment, footing and cap details for the 6 new bollards, and the paint system for 10 existing bollards and the hydrant.

b) Pavement markings: colors, line widths, stall counts, accessible markings, glass beads, and removal of existing markings.

c) Who furnishes parking, traffic, accessible and fire lane signs and wheel stops (01 11 01 N.1.jj)?

d) Who restores disturbed lawn and landscape areas, and to what topsoil depth and seed mix? There is no seeding section.

A49: a) A bollard detail is provided on Sheet C-104.
b) All of the pavement markings should match the markings that currently exist. The paint to be used shall be white, waterborne paint that complies with PennDOT Publication 408, latest edition.
c) The contractor will be responsible for replacing all existing signage with new signage. No new wheel stops are being proposed.
d) The contractor will be responsible for restoring all disturbed grass areas. All disturbed grass areas shall be restored to accordance with the applicable sections of PennDOT Publication 408, latest edition.

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Q50: Re Sanitary Piping:

a. Who is responsible to extend the water heater flues?

b. Who is responsible to extend the boiler flues?

c. Are PVC pipe and fittings acceptable for the underground sanitary system?

A50: Re Sanitary Piping:

a. Drawing M-401 Keynote 6 indicates the MC to extend both the boiler and water heater flues.

b. Drawing M-401 Keynote 6 indicates the MC to extend both the boiler and water heater flues.

c. Per specification section 221316 piping shall be cast iron./No exterior sanitary sewer work being proposed.

Q51: Please clarify who is responsible to provide the curbs referenced in specification 077200 Roof Accessories. Typically, the HVAC provides the roof curbs and the GC will install the curbs. With the HVAC contractor providing the curbs, they can easily coordinate the curb size requirements with their provided and installed mechanical equipment.

A51: HVAC contractor to supply the roof curbs and the General Contractor is to install them.

Q52: Please confirm that the institutional soffit system specification 139000 applies to the 16 gauge metal enclosures shown on drawings A-104 in rooms A251A, 256, and 257.

A52: Institutional soffit system specification 139000 applies to the metal enclosures shown on drawing A-104 and any exposed piping below secure ceilings in Resident areas.

Q53: Concerning the new 8’ H chain link fencing with gate leaf shown on drawing A-102, are there any fence specs such as mesh size, barbed wire requirements, etc? Also, does the new gate need set up for security hardware the same as existing gates G1-G9? Please clarify.

A53: See attached Specification Section 32 31 13 “Chain Link Fences and Gates”. The proposed gate will have mechanical hardware only.

Q54: Also concerning the gate operators, does the operator require any locking mechanism? Please clarify.

A54: Provide a Folger Adams 800 electromechanical gate lock to vehicular sliding gates.

Q55: Please confirm if PVC is acceptable for the sanitary systems. Also please confirm if Propress is acceptable for the domestic water systems.

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A55: Per specification section 221316 sanitary piping shall be cast iron. Propress or press-fit type fittings are not included in the specifications because they are not acceptable.

Q56: Existing electrical panels being renamed such as LS1A, LS2, LSR1, & LSR2 have a note #2 to add a new breaker for surge protection. Is the surge protection existing in the panels or is this to be an add? If an add, external or internal of the panel?

A56: No, there is no existing surge protection in the Life Safety panels.

Yes, Surge protection shall be added to all Life Safety (emergency) panels per NEC 2020 700.8. The surge protection shall be internal to the panel. Refer to specification section 262416.

Q57: Please confirm that the previous allowance GC1: Door Hardware Material (installation by GC) has been deleted from the project.

A57: Yes, GC1 Door Hardware Allowance has been deleted from the project.

ATTACHMENTS:

Section 32 31 13 Chain Link Fences and Gates

END OF ADDENDUM NUMBER FOUR

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SECTION 32 31 13 - CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Galvanized-steel chain link fabric.
   2. Galvanized-steel framework with base plates anchored in concrete
   3. Swing Gate

1.2 SUBMITTALS

A. General: Submit the following according to the Conditions of the Contract and Division 01 Specification Sections.

B. Product data in the form of manufacturer's technical data, specifications, and installation instructions for fence and gate posts, fabric, gates, and accessories.

C. Shop drawings showing location of fence, gates, each post, and details of post installation, extension arms, gate swing, hardware, and accessories.
   1. Include Shop Drawings signed and sealed by the qualified professional engineer responsible for their preparation.

D. Samples for initial selection of PVC color in form of manufacturer's color charts or 6-inch lengths of actual fabric wire showing colors available.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced Installer who has at least three years' experience and has completed at least five chain link fence projects with same material and of similar scope to that indicated for this Project with a successful construction record of in-service performance.

B. Single-Source Responsibility: Obtain chain link fences, including accessories, fittings, and fastenings, from a single source.

C. Professional Engineer Qualifications: A professional engineer who is legally authorized to practice in the jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated that have resulted in installing chain link fences similar to those indicated for this Project and with a record of successful in-service performance

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1.4 PROJECT CONDITIONS

A. Field Measurements: Verify layout information for fences and gates shown on the Drawings in relation to the property survey and existing structures. Verify dimensions by field measurements.

PART 2 PRODUCTS

2.1 FABRIC

A. Selvage: Knuckled on both selvages for 2-inch and 2-1/8-inch mesh sizes with heights of 60 inches and less.

B. Steel Chain-Link Fence Fabric: Fabricated in one-piece widths for fencing 12 feet and less in height to comply with Chain Link Fence Manufacturers Institute (CLFMI) "Product Manual" and with requirements indicated below:
1. Mesh and Wire Size: 2-inch mesh, 0.192-inch diameter (6 gage).
2. Coating: ASTM A 817, Type 2, Class 2, zinc-coated (galvanized).

2.2 FRAMING

A. Round member sizes are given in actual outside diameter (OD) to the nearest thousandth of inches. Round fence posts and rails are often referred to in ASTM standard specifications by nominal pipe sizes (NPS) or the equivalent trade sizes in inches. The following indicates these equivalents all measured in inches:

Actual OD	NPS Size	Trade Size
1.315	1	1-3/8
1.660	1-1/4	1-5/8
1.900	1-1/2	2
2.375	2	2-1/2
2.875	2-1/2	3
3.500	3	3-1/2
4.000	3-1/2	4
6.625	6	6-5/8
8.625	8	8-5/8

B. Type I Round Posts: Standard weight (schedule 40) galvanized-steel pipe conforming to ASTM F 1083, according to heavy industrial requirements of ASTM F 669, Group IA, with minimum yield strength of 25,000 psi, not less than 1.8 oz. of zinc per sq. ft. Type A coating inside and outside according to ASTM F 1234, as determined by ASTM A 90, and weights per foot as follows:

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Actual OD	Weight (lb/ft)	NPS Size
1.315	1.68	1
1.660	2.27	1-1/4
1.900	2.72	1-1/2
2.375	3.65	2
2.875	5.79	2-1/2
3.500	7.58	3
4.000	9.11	3-1/2
6.625	8.97	6
8.625	28.55	8

C. Type II Round Posts: Cold-formed, electric-welded steel pipe conforming to heavy industrial requirements of ASTM F 669, Group IC, with minimum yield strength of 50,000 psi, either protective coating system below according to ASTM F 1234, and weights per foot as follows:
   1. Coatings: Type B outside with a minimum of 0.9 oz. of zinc per sq. ft. after welding, a chromate conversion coating and a clear polymer overcoat. Type B inside with a minimum of 0.9 oz. of zinc per sq. ft. or Type D inside with a minimum
   2. 0.3-mil-thick, 81-percent zinc-pigmented nominal coating.
   3. Coatings: Type C inside and outside with not less than 0.9 oz. of zinc-5 percent aluminum-mischmetal alloy per sq. ft.

Actual OD	Weight (lb/ft)	NPS Size
1.315	1.35	1
1.660	1.84	1-1/4
1.900	2.28	1-1/2
2.375	3.12	2
2.875	4.64	2-1/2
3.500	5.71	3
4.000	6.56	3-1/2

D. Roll-Formed Steel: Rolled form steel shapes (e.g., C section) produced from structural-quality steel conforming to ASTM A 570, grade 45, or ASTM A 446, grade D, galvanized, conforming to heavy industrial requirements of ASTM F 669, Group II, with a minimum yield strength of 45,000 psi. Protective coating system according to ASTM F 1234, Type A, hot-dip galvanized with a minimum of 2.0 oz. of zinc per sq. ft. according to ASTM A 123, 4.0 oz. of zinc per sq. ft. according to ASTM A 525; or Type C, a minimum of 1.0 oz. of zinc-5 percent aluminum-mischmetal alloy per sq. ft. according to ASTM A 875.

E. Roll-Formed Steel: Hot-rolled steel shape H section with a minimum yield strength of 45,000 psi conforming to ASTM F 669, group III. Protective coating system according to ASTM F 1234, Type A, hot-dip galvanized with a minimum of 2.0 oz. of zinc per sq. ft. of according to ASTM A 123, or 4.0 oz. of zinc per sq. ft. according to ASTM A 525.

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F. Square Tubing: Cold-formed steel structural tubing conforming to ASTM A 500, Grade B with minimum yield strength of 42,000 psi and not less than 1.8 oz. of zinc per sq

G. Type A coating inside and outside according to ASTM F 1234, as determined by ASTM A 90.

H. Supplemental Color Coating: In addition to above metallic coatings, provide posts and rails with manufacturer's standard polymer coating according to ASTM F 1234, 10-mil minimum polyvinyl chloride (PVC) or 3-mil minimum polyester plastic resin finish applied to exterior surfaces and, except for tubular shapes, to exposed interior surfaces. Color to match chain link fabric.

I. Aluminum Framework: Round members, alloy 6063-T6, mill-finished aluminum conforming to ASTM B 429, schedule 40 aluminum pipe. Other
members, alloy 6061-T6, mill-finished aluminum conforming to ASTM B 221. Weights per foot for pipe as follows:

Actual OD	Weight (lb/ft)	NPS Size
1.315	0.581	1
1.660	0.786	1-1/4
1.900	0.940	1-1/2
2.375	1.264	2
2.875	2.004	2-1/2
3.500	2.621	3
4.000	3.151	3-1/2
6.625	6.564	6
8.625	9.878	8

J. Top Rail: Manufacturer's longest lengths (17 to 21 feet) with swedged-end or expansion-type coupling, approximately 6 inches long for joining. Provide rail ends or other means for attaching top rail securely to each gate corner, pull, and end post.
1. Round Steel: 1.660-inch OD Type I or II steel pipe.
2. Roll-Formed Steel: 1-1/4-by-1-5/8-inch C section weighing a minimum of 1.40 lb per linear ft.
3. Round Aluminum: 1.660-inch OD aluminum pipe.
4. Square Aluminum: 1-1/2-inch-square aluminum tubing with 0.125-inch minimum walls.

K. Steel posts for fabric heights over 6 feet:
1. Round Line or Intermediate Posts: 2.375-inch OD Type I or II steel pipe.
2. Round End, Corner, and Pull Posts: 2.875-inch OD Type I or II steel pipe.
3. Roll-Formed Line or Intermediate Posts: 2.25-by-1.70-inch C section weighing a minimum of 2.70 lb per linear ft.
4. Hot-Formed Line or Intermediate Posts: 2.25-by-1.70-inch galvanized-steel H section weighing a minimum of 3.26 lb per linear ft.
5. Square End, Corner, and Pull Posts: 2-1/2-inch-square galvanized-steel tubing weighing a minimum of 5.00 lb per linear ft.

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6. Roll-Formed End, Corner, and Pull Posts: 3-1/2-by-1-1/2-inch roll-formed galvanized-steel sections weighing a minimum of 5.10 lb per linear ft.

L. Swing Gate Posts: Furnish posts to support single gate leaf, or one leaf of a double-gate installation, according to ASTM F 900, sized as follows for steel and aluminum pipe posts:
1. Steel posts for fabric height over 6 feet and gate leaf width:
   a. Up to and Including 6 Feet: 2.875-inch OD pipe weighing at least 4.64 lb per ft.
   b. Over 6 to 12 Feet: 4.000-inch OD pipe weighing at least 8.65 lb per ft.
   c. Over 12 to 18 Feet: 6.625-inch OD pipe weighing at least 10.02 lb per ft.
   d. Over 18 to 24 Feet: 8.625 OD pipe weighing at least 27.12 lb per ft.

M. Opening Width Up to 12 feet: 2.875-inch OD pipe weighing not less than 4.64 lb per ft.

N. Opening Width Over 12 feet: 4.000-inch OD pipe weighing not less than 6.56 lb per ft.

2.3 FITTINGS AND ACCESSORIES

A. Material: Comply with ASTM F 626. Mill-finished aluminum or galvanized iron or steel to suit manufacturer's standards.
1. Steel and Iron: Unless specified otherwise, hot-dip galvanize pressed steel or cast-iron fence fittings and accessories with at least 1.2 oz. zinc per sq. ft. as determined by ASTM A 90.
2. Aluminum: Die cast conforming to ASTM B 26, aluminum-alloy 360 or sand cast conforming to ASTM B 85, aluminum-alloy 365, ZG61A, or Tenzalloy.
3. Supplemental Color Coating: In addition to above metallic coatings, provide a 10-mil minimum polyvinyl chloride (PVC) plastic resin finish applied to exterior surfaces and, except inside cap shapes, to exposed interior surfaces. Color to match chain link fabric.

B. Post Base Plates:
1. Provide welded steel base plates at bottom of each post. Fence manufacturer to verify base plate, anchor size and anchorage capacity for applicable wind loads.
2. Base plates shall be sized and configured to accommodate required anchor bolts and provide adequate structural support.
3. Provide galvanized finish complying with requirements for fence components.
4. Provide holes for mechanical anchorage to concrete.

C. Anchors
1. Provide corrosion-resistant mechanical or adhesive anchors suitable for anchorage into existing concrete.
2. Size, embedment, spacing, and edge distances shall be recommended by anchor manufacturer and as required to resist design loads.
3. Provide stainless steel or hot dip galvanized anchor bolts.

D. Post and Line Caps: Provide weathertight closure cap for each post. Provide line post caps with loop to receive tension wire or top rail.

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E. Post Brace Assembly: Manufacturer's standard adjustable brace. Use material specified below for brace, and truss to line posts with 3/8-inch-diameter rod and adjustable tightener. Provide manufacturer's standard galvanized-steel, cast-iron or cast-aluminum cap for each end.
   1. Round Steel: 1.660-inch OD Type I or II steel pipe.
   2. Roll-Formed Steel: 1-1/4-by-1-5/8-inch C section weighing a minimum of 1.40 lb per linear ft.
   3. Round Aluminum: 1.660-inch OD aluminum pipe.
   4. Square Aluminum: 1-1/2-inch-square aluminum tubing with 0.125-inch minimum walls.

F. Bottom and Center Rail: Same material as top rail. Provide manufacturer's standard galvanized-steel, cast-iron or cast-aluminum cap for each end.

G. Tension or Stretcher Bars: Hot-dip galvanized steel with a minimum length 2 inches less than the full height of fabric, a minimum cross section of 3/16 inch by 3/4 inch, and a minimum of 1.2 oz. of zinc coating per sq. ft. Provide one bar for each gate and end post, and two for each corner and pull post, except where fabric is integrally woven into the post.

H. Tension and Brace Bands: 3/4-inch-wide minimum hot-dip galvanized steel with a minimum of 1.2 oz. of zinc coating per sq. ft.
   1. Tension Bands: 0.074 inch thick (14 gage) minimum.
   2. Brace Bands: 0.105 inch thick (12 gage) minimum.

I. Tension Wire: 0.177-inch-diameter metallic-coated steel marcelled tension wire conforming to ASTM A 824 with finish to match fabric.
   1. Coating Type II zinc in the following class as determined by ASTM A 90.
      a. Class 3, with a minimum coating weight of 2.00 oz. per sq. ft. of uncoated wire surface.

J. Tension Wire: 0.192-inch-diameter (6-gage) mill-finished aluminum wires, ASTM B 211, alloy 6061-T94 with 50,000-psi minimum tensile strength.

K. Tie Wires: 0.106-inch-diameter (12-gage) galvanized steel with a minimum of 0.80 oz. per sq. ft. of zinc coating according to ASTM A 641, Class 3 or 0.148-inch-diameter (9-gage) aluminum wire alloy 1350-H19 or equal, to match fabric wire.

2.4 GATES

A. Fabricate perimeter frames of gates from same material and finish as fence framework. Assemble gate frames by welding. Provide horizontal and vertical members to ensure proper gate operation and attachment of fabric, hardware, and accessories. Space frame members maximum of 8 feet apart unless otherwise indicated.
   1. Fabric: Same as for fence unless otherwise indicated. Secure fabric at vertical edges with tension bars and bands and to top and bottom of frame with tie wires.
   2. Bracing: Install diagonal cross-bracing consisting of 5/16-inch-diameter adjustable-length truss rods on gates to ensure frame rigidity without sag or twist.

B. Swing Gates: Comply with ASTM F 900.

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1. Steel: Gates up to 8 feet wide:
   a. Up to 6 Feet High: Fabricate perimeter frames of 1.660-inch minimum OD Type I or II steel pipe or 1-1/2-inch-square galvanized-steel tubing weighing 1.84 lb per sq. ft.
   b. Over 6 Feet High: Fabricate perimeter frames of 1.90-inch minimum OD Type I or II steel pipe or 2-inch-square galvanized-steel tubing weighing 2.52 lb per sq. ft.
2. Gate Hardware: Provide galvanized hardware and accessories for each gate according to the following:
   a. Hinges: Size and material to suit gate size, non-lift-off type, offset to permit 180-degree gate opening. Provide 1-1/2 pair of hinges for each leaf over 6-foot nominal height.
   b. Latch: Forked type or plunger-bar type to permit operation from either side of gate, with padlock eye as an integral part of latch.
   c. Keeper: Provide a keeper for vehicle gates that automatically engages gate leaf and holds it in the open position until manually released.
   d. Gate Stops: Provide gate stops for double gates consisting of mushroom-type flush plate with anchors, set in concrete, and designed to engage a center drop rod or plunger bar. Include a locking device and padlock eyes as an integral part of the latch, permitting both gate leaves to be locked with a single padlock.

PART 3 EXECUTION

3.1 INSTALLATION

A. General: Install fence to comply with ASTM F 567. Do not begin installation and erection before final grading is completed, unless otherwise permitted.
   1. Apply fabric to outside of framework.

B. Install chain-link fence in accordance with manufacturer's written instructions and approved shop drawings

C. Secure fence posts to concrete using surface-mounted steel base plates and mechanical anchors.

D. Do not embed fence posts in concrete or install posts in ground.

E. Install in accordance with manufacturer's recommendations, including required embedment depths and edge distances.

F. Set posts plumb and align fence to provide straight, uniform installation.

G. Repair damaged galvanized coatings in accordance with ASTM A780/A780M.

H. Top Rails: Run rail continuously through line post caps, bending to radius for curved runs and at other posts terminating into rail end attached to posts or post caps fabricated to receive rail. Provide expansion couplings as recommended by fencing manufacturer.

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I. Center Rails: Install center rails in one piece between posts and flush with post on fabric side, using rail ends and special offset fittings where necessary.

J. Brace Assemblies: Install braces at end and gate posts and at both sides of corner and pull posts. Locate horizontal braces at midheight of fabric on fences with top rail and at two thirds fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.

K. Bottom Tension Wire: Install tension wire within 6 inches of bottom of fabric before stretching fabric and tie to each post with not less than same gage and type of wire. Pull wire taut, without sags. Fast
fabric to tension wire with 0.120-inch-diameter (11-gage) hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c.

L. Top Tension Wire: Install tension wire through post cap loops before stretching fabric. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch-diameter (11-gage) hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c.

M. Fabric: Leave approximately 2 inches between finish grade and bottom selvage unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Install fabric on security side of fence, and anchor to framework so
that fabric remains under tension after pulling force is released.

N. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not over 15 inches o.c.

O. Tie Wires: Use wire of proper length to secure fabric firmly to posts and rails. Bend ends of wire to minimize hazard to persons or clothing.
1. Maximum Spacing: Tie fabric to line posts 12 inches o.c. and to rails and braces 24 inches o.c.

P. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side. Peen ends of bolts or score threads to prevent removal of nuts for added security.

3.2 GATE INSTALLATION

A. Install gates plumb, level, and secure for full opening without interference. Adjust hardware for smooth operation and lubricate where necessary. Install gates according to manufacturer's instructions, plumb, level, and secure.

3.3 ADJUSTING

A. Gates: After repeated operation of completed installation equivalent to 3 days' use by normal traffic, readjust gates for optimum operating condition and safety. Lubricate operating equipment and clean exposed surfaces.

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3.4 DEMONSTRATION

A. Instruct the Owner's personnel on proper operation and maintenance of gate.

END OF SECTION 32 31 13

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