



Addendum #: Addendum #5
Issue Date: 04/19/2024

The following additions, clarifications and revisions have been made to the Contract Documents:

CLARIFICATIONS:

1. See attached RFI log.
2. No further addenda are expected. There is no change to the bid date or time.
3. The bid form has been reissued in this addendum; prime bidders shall submit bids with the form provided in this addendum.
4. See attached Addendum for Klinger and Associates

REVISIONS:

1. **REISSUE** Section 00 24 00 BID PACKAGES in its entirety. Changes noted in red
2. **REISSUE** Section 00 41 23 Bid Form in its entirety. Changes noted in red
3. **REVISE** Section 00 21 13 – Instructions to Bidders at the end of 1.1.C insert the following:
 - a. *“The Construction Manager may reassign the Contracts to the Owner if required by law or may refuse assignment if a legal or contractual conflict prevents Construction manager from accepting assignment of any Contract. In such case, the Construction Manager shall manage said Contract in the same manner as Contracts assigned to the Construction Manager. By submitting a bid, Contractors agree they will either accept assignment to the Construction Manager or enter into a contract directly with the Owner (managed by the Construction Manager) using an AIA agreement written for this purpose”*
4. **REVISE** Section 00 21 13 – Instructions to Bidders at the end of 1.17.A insert the following:
 - a. Same as above
5. **REVISE** Section 00 70 00 – General Conditions at the end of 1.11.E insert the following:
 - a. Same as above
6. **REVISE** Section 01 10 00 – Summary at the end of 1.4.B.4 insert the following:
 - a. Same as above
7. **REVISE** section 01 21 00 - Allowances 1.3 B insert the following:
 - a. Use of allowances requires prior written approval from the Construction Manager.
8. **REVISE** section 01 22 00 – Unit Prices 1.5 add item D as follows.
 - a. Use of allowances requires prior written approval from the Construction Manager.

SECTION 01 12 00 – BID PACKAGES**PART 1 - GENERAL****1.1 GENERAL**

- A. This section provides a guideline of the scope of work to be included with each bid package. This section includes scope and instructions which may not be specifically called out elsewhere in the Project Manual, Plans or Specifications. All bidders should read this section carefully in its entirety. This section is not all inclusive and is to be read in conjunction with the entire set of project documents. It is each Contractor's responsibility to submit a complete bid.
- B. Contractors may submit a bid on more than one bid package but a separate signed bid form in a separate envelope is required for each bid package submitted complying with the provisions of section 00 11 13 - Advertisement to Bid and section 00 21 13 – instruction to bidders.
- C. Where items are noted to be "provide(d)" or "include(s)" that shall indicate furnish, install, unloading, ~~shack-out~~ *Shake-out*, fasteners, incidentals, and all work necessary for a complete system unless specifically noted otherwise.
- D. This specification shall have precedence for assignment of Scope of Work prior to and above any assignments of Scope of Work in the Drawings, Specifications, or elsewhere in the Contract Documents.

1.2 BID PACKAGES

List of Bid Packages:

1. *Bid Package 01 – Electrical Distribution Equipment Supply [previously bid/awarded]*
2. *Bid Package 02 – Generator Supply [previously bid/awarded]*
3. Bid Package 03 - General Trades
4. Bid Package 04 - Civil Package
5. Bid Package 05 - Asphalt Paving
6. Bid Package 06 - Site Concrete
7. Bid Package 07 - Building Concrete
8. Bid Package 08 – Precast
9. Bid Package 09 – Masonry
10. Bid Package 10 – Roofing
11. Bid Package 11 - Detention Equipment
12. Bid Package 12 - Fire Protection
13. Bid Package 13 – Plumbing
14. Bid Package 14 – HVAC
15. Bid Package 15 - Electrical

1.3 BID PACKAGE SCOPES OF WORK

- A. Scope applicable to all bid packages:
 1. Include all costs associated with Textura Payment Management System (Reference 01 2900a – Oracle-Textura)

2. All trade/*bid* packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work.
3. All bid packages are responsible for their own daily clean-up to the dumpsters supplied.
4. Provide all *licensed* survey, staking and layout as necessary to complete the bid package Scope of Work. Construction Manager will provide onsite benchmarks.
5. Provide all field measuring necessary for fabrication, installation, and as-built drawings as necessary to complete the bid package Scope of Work
6. Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
7. Provide all scaffolding, temporary shoring, guying, supports, bracing, and additional means and methods necessary to complete the bid package Scope of Work
8. Provide testing as specified for your Scope of Work
9. Provide scheduling and coordination of any Owner third party testing agencies for all specified testing by Others pertaining to your Scope of Work
10. Provide all training and owner demonstration as required as specified for your Scope of Work
11. Provide all maintenance stock/extra materials as specified for your Scope of Work
12. Include all delegated design as specified for your Scope of Work. This includes all engineering (by a licensed engineer) as well as the cost of design.
13. Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups.
14. Include all costs associated with meeting minimum insurance requirements outlined in 00 2000 – Sample Subcontract Agreement. This includes the costs of additional waivers and endorsements that might be required to meet specified requirements.
15. All bids shall reflect the project schedule (Reference 00 3113a – Schedule), phasing and site logistics plan (Reference 01 5000a – Site Logistics Plan) including adequate staffing, timely material procurement, acceleration, and additional mobilizations.
16. All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer’s standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects’ determination shall be final and adjustments to the contract as a result of Architects’ determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
17. Include coordination and scheduling of all tier subcontractors under this Scope of Work
18. *Damage to graded areas outside the temporary road areas shall be corrected at the expense of the trade package that incurred the damage.*
- ~~17-19.~~ *All bid packages shall provide bids in full compliance with all notes and details of the “G” sheets of the contract documents.*

B. Bid Package 01 – Electrical Distribution Equipment Supply [PREVIOUSLY AWARDED]

1. *Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.*
2. *Applicable Specifications:*
 - a. *Division 00 Complete*
 - b. *Division 01 Complete*
 - c. *262416 – Panel Boards Complete*
3. *Alternates: See section 012300 - Alternates*
4. *Allowances:*
 - a. *NA*
5. *Scope of Work:*
 - a. *Include supply and delivery of complete new main distribution panel (MDP) per E500 Electrical one line and as specified.*
 - b. *Include extra materials/attic stock as specified.*

- c. *Include any and all costs associated with storage of electrical equipment until the electrical equipment is delivered to the jobsite. No jobsite storage will be available. Refer to 00 3113a – Schedule.*
- d. *Include all delivery and freight costs to project site.*
- e. *Include coordination of delivery and unloading/installation of equipment with the Construction Manager and Electrical Contractor.*
- f. *Include standard quality-control/quality assurance testing and confirm functionality of all equipment prior to shipping.*
- g. *Provide all submittals, shop drawings, product data, warranties, etc. for your equipment. Warranties are to begin on the date of substantial completion of the project. Warranties are to begin on the date of substantial completion of the project.*
- h. *Provide Owner demonstration as specified.*
- i. *Include any and all costs associated with manufacturer's start-up of equipment including manufacturer's field service testing.*
- j. *A Letter of Intent will be issued upon award of contract. A subcontract agreement will be issued after the executed Owner GMP agreement.*
- k. *Include completion of Coordination study to assure gear compliance*

C. *Bid Package 02 – Generator Supply [PREVIOUSLY AWARDED]*

- 1. *Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.*
- 2. *Applicable Specifications :*
 - a. *Division 00 Complete*
 - b. *Division 01 Complete*
 - c. *263213 Engine Driven Generators Complete*
 - d. *263600 Transfer Switches Complete*
- 3. *Alternates: See section 012300 - Alternates*
- 4. *Allowances:*
 - a. *NA*
- 5. *Scope of Work*
 - a. *Supply and deliver emergency standby generator 250kW Diesel generator in enclosure with sub-base fuel tank for installation by Others. Refer to drawings and Specifications.*
 - b. *Supply and deliver AUTOMATIC TRANSFER SWITCHES ATS-LS AND ATS-OS for installation by others*
 - c. *Supply and deliver docking station per E500 for installation by Others.*
 - d. *Include extra materials/attic stock as specified.*
 - e. *Include any and all costs associated with storage of electrical equipment until the electrical equipment is delivered to the jobsite. No jobsite storage will be available. Refer to 00 3113a – Schedule.*
 - f. *Include all delivery and freight costs to project site.*
 - g. *Include coordination of delivery and unloading/installation of equipment with the Construction Manager and Electrical Contractor.*
 - h. *Include standard quality-control/quality assurance testing and confirm functionality of all equipment prior to shipping.*
 - i. *Provide 12-month maintenance service by manufacturer's designated service organization as specified.*
 - j. *Provide all submittals, shop drawings, product data, warranties, etc. for your equipment. Warranties are to begin on the date of substantial completion of the project. Warranties are to begin on the date of substantial completion of the project.*
 - k. *Provide Owner demonstration as specified.*

- l. Include any and all costs associated with manufacturer's start-up of equipment including manufacturer's field service testing.*
- m. A Letter of Intent will be issued upon award of contract. A subcontract agreement will be issued after the executed Owner GMP agreement.*

D. Bid Package 03 – General Trades

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications *(listed items are complete unless noted otherwise)*:
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 051200 Structural Steel Framing
 - e. 052100 Steel Joist Framing
 - f. 053100 Steel Decking
 - g. 054000 Cold-Formed Metal Framing
 - h. 055100 Metal Stairs
 - i. 061000 Rough Carpentry
 - j. 064116 Plastic Laminate Faced Architectural Cabinets
 - k. 072100 Thermal Insulation [As applicable]
 - l. 078413 Penetration Firestopping ~~{complete}~~ [As applicable]
 - m. 078443 Joint Firestopping ~~{complete}~~ [As applicable]
 - n. 079200 Joint Sealant [As applicable]
 - o. 079216 Pick-Proof Joint Sealants [Complete]
 - p. 081113 Hollow Metal Doors and Frames
 - q. 081416 Flush Wood Doors
 - r. ~~083100 Access Door and Panels Removed~~
 - s. 083323 Overhead Coiling Doors
 - t. 083613 Sectional Doors
 - u. 084313 Aluminum-Framed Storefronts
 - v. 084413 Glazed Aluminum Curtain Walls
 - w. 086200 Unit Skylights
 - x. 087100 Door Hardware
 - y. 087113 Automatic Door Operators
 - z. 088000 Glazing
 - aa. 088300 Mirrors
 - bb. 090561 Common Work Results for Flooring Preparation
 - cc. 092116 Gypsum Board Assemblies
 - dd. 092216 Non-Structural Metal Framing
 - ee. 092900 Gypsum Board
 - ff. 092900.13 Security Mesh
 - gg. 093000 Tiling
 - hh. 096513 Resilient Base and Accessories
 - ii. 096519 Resilient Tile Flooring
 - jj. 096723 Resinous Flooring and Wall Coatings
 - kk. 096813 Tile Carpeting
 - ll. 098000 Acoustic Treatment
 - mm. 099123 Painting
 - nn. 099656 Interior Epoxy Coatings
 - oo. 101400 Signage
 - pp. 102113 Toilet compartments
 - qq. 102641 Ballistics Resistant Panels

- rr. 102800 Toilet and Laundry Accessories
 - ss. 104300 Emergency Aid Specialties
 - tt. 104400 Fire Protection Specialties
 - uu. 105113 Metal Lockers
 - vv. 105617 Wall Mounted Standards and Shelving
 - ww. 105626.13 Mobile Storage Shelving Units
 - xx. 107516 Ground-Set Flagpoles
 - yy. 111100 Commercial Laundry Equipment
 - ~~yy-zz.~~ *114000 Food Service Equipment*
 - ~~zz-aaa.~~ 122413 Roller Window Shades
 - ~~aaa-bbb.~~ 123623.13 Plastic-Laminate-Clad Countertops
 - ~~bbb-ccc.~~ 123661 Simulated Stone Countertops
 - ~~ccc-ddd.~~ 312000 Earth Moving [As Applicable]
 - ~~ddd-eee.~~ 316613 Stone Column Ground Improvement
 - ~~eee-fff.~~ 323113 Chain Link Fences and Gates
 - ~~fff-ggg.~~ 329200 Turf and Grasses
3. Alternates: See section 012300 — Alternates
4. Allowances:
- ~~a.~~ *Include an allowance of \$35,000 for a project job trailer. This allowance includes set-up, monthly rental, pick-up, and return charges for the on-site office trailer at the discretion of the Construction Manager. This allowance should cover furnishings, office supplies, internet, phone, drinking water, etc*
 - ~~b-a.~~ Include an allowance of **\$5,000** allowance for miscellaneous materials/equipment to be used at the discretion of the Construction Manager
 - ~~c-b.~~ Include an allowance of **\$20,000** for general waste, masonry/concrete, and dumpsters necessary to accommodate waste for other bid packages.
 - ~~d-c.~~ Include an allowance of **\$35,000** for winter/weather conditions and temporary heat. Allowance to cover propane, utility usage charges, temporary filters, and other costs incurred from winter conditions. A minimum of 45 degrees shall be maintained in all parts of the building that are enclosed. *This allowance does not include rental for temporary heaters listed the "general requirements" section of this bid package scope of work.*
 - ~~d.~~ Include an allowance of **\$35,000** for temporary floor protection.
 - ~~e.~~ *Include an allowance of \$50,000 for slab moisture mitigation including shot blasting and major floor preparation.*
 - ~~f.~~ *Include an allowance of \$50,000 for lime stabilization for building pad and pavements.*
 - ~~g-f.~~ All allowances will be for use as directed by the Construction Manager.
 - ~~h-g.~~ Any allowances listed ~~below~~ *above* are independent of any items listed below in Section 5 – Scope of Work. Allowances are not intended to cover the costs of any items listed in the Scope of Work.
 - ~~h.~~ Refer to unit prices below for additional allowance items to be included in base bid.
 - ~~i.~~ *Each allowance shall be a separate line item within the schedule of values for each pay application.*
 - ~~i-j.~~ *Refer to 01 21 00 Allowances for additional information.*
5. Unit Prices
- a. Unit Price 3a – Laborer Hours**
 - 1) **Description:** Include laborer trade labor hours to be used at the discretion of the Construction Manager. The Bidding Contractors for this bid package are required to include the quantity allowance listed below **in their base bid price**. Adjustments to the Contract shall be made by in-field measurements will be made via additive or deductive change order for the unit price listed on the bid form.
 - 2) **Base bid Quantity:** 450 hours
 - 3) **Unit of Measurement:** Labor hours, based on T&M tickets
 - b. Unit Price 3b – Carpenter Hours**

- 1) **Description:** Include Carpenter trade labor hours to be used at the discretion of the Construction Manager. The site Bidding Contractors for this bid package are required to include the quantity allowance listed below **in their base bid price**. Adjustments to the Contract shall be made by in-field measurements will be made via additive or deductive change order for the unit price listed on the bid form.
- 2) **Base bid Quantity:** 50 hours
- 3) **Unit of Measurement:** Labor hours, based on T&M tickets
- 3)c. *Refer to section 01 2200 for additional information*
6. Scope of Work
 - 1) *Scope breakouts below are provided for organization purposes only. Bidders for this package shall provide a complete bid for all items listed under this bid package Scope of Work.*
 - 2) *This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages."*
 - a. General Requirement Items
 - 1) Provide temporary toilets for the duration of the project per OSHA standards, section 01 5000 Temporary Facilities and Controls and the site logistics plan. Include removal of waste and maintenance. Remove when directed by Construction Manager
 - 2) Provide temporary heaters for winter heating season during construction activities. A minimum of 45 degrees shall be maintained in all parts of the building that are enclosed.
 - 3) Furnish, install, and relocate construction fence and gates as shown on the site logistics plan. Fence posts to be driven *not sandbagged*.
 - b. Final Clean
 - 1) Provide all labor, cleaning supplies, and equipment for final construction cleaning
 - 2) Sweep & mop all hard floors or provide machine clean at contractor's option
 - 3) Vacuum of carpets
 - 4) Sweep and/or vacuum of shop/storage areas/mechanical rooms
 - 5) Dust clean all interior walls.
 - 6) Clean/wipe down of ~~winyt~~ *all wall* base
 - 7) Clean/wipe down all doors, frames, and hardware
 - 8) Clean/wipe down toilet partitions and accessories
 - 9) Clean/wipe down wall tile and grout
 - 10) Clean/wipe down stairs and railings
 - 11) Clean/wipe down outside surfaces of HVAC units
 - 12) Clean/wipe down outside surfaces of mechanical equipment
 - 13) Clean/wipe down outside surfaces of mechanical panels
 - 14) Removal dust and dirt from overhead light fixtures
 - 15) Clean/wipe down all exposed piping (concealed piping shall not be required to be cleaned).
 - 16) Clean/wipe down all restroom fixtures, accessories, and mirrors
 - 17) Clean/wipe down interior window frames
 - 18) Clean/wipe down borrow lites frames
 - 19) Clean/wipe down of all borrow lite, interior storefront, and door glazing
 - 20) Clean/wipe down the interior glass of exterior windows
 - 21) Clean/wipe down exterior and interior of all cabinets
 - 22) Clean/wipe down of all counters
 - 23) Clean/wipe down of all sills
 - 24) Clean/wipe down of all casework
 - 25) Clean/wipe down of all solid or laminated surfaces
 - 26) Cleaning storefront entrance/vestibule frame and glass
 - 27) Clean/wash all exterior glass

- ~~27)28) Clean all Detention equipment and accessories~~
~~28) Clean/wipe/vacuum elevator cab including floors, walls, ceilings, and light fixtures~~
- c. Aggregate Piers
- 1) Provide and design aggregate pier foundation supports per plans and specs
 - 2) *Piers shall be installed to subgrade elevation, refer RFI 97.*
 - ~~3) Spoils to be removed by civil bid package.~~
- d. Landscaping
- 1) Provide complete landscaping per Contract Documents
 - 2) Provide all seeding, *mulching, crimping*, and turf as shown. *Provide hydraulic seeding at contractor's option per L001 specifications part 3.5.*
 - 3) Provide all ~~temporary and~~ permeant seeding of all areas disturbed in the construction area per the plans. Areas outside the work area disturbed by this contractor shall be reseeded and restored to original condition by this ~~contractor bid package.~~
 - 4) Provide starter fertilizer for seeded areas
 - 5) Provide weed barriers
 - 6) Provide all final grading to +/- 0.10 foot. All verification of grades, slopes, and drainage prior to installations
 - 7) Provide all soil preparation including amending soil, providing positive drainage, as well as removal and disposal of all weeds, vegetation and rocks as required. *Refer to L001 specifications part 3.2. Refer to RFI 28.*
 - a) *Civil bid package to provide all topsoil unless noted otherwise*
 - ~~7)b) Provide all over digging and all planting soil. Remove excess spoils. Refer to RFI 48 and 49~~
 - 8) Provide all mulching and ground cover. *refer to C001 seeding note 2. Provide all trap rock and shredded hardwood mulch*
 - 9) Provide pre-emergent to all planting beds prior to mulching
 - 10) Provide all edging at landscape beds as shown *and specified. Provide all excavation and backfill required for landscaping edging*
 - 11) Provide all plantings including shrubs, decorative grasses, perennials and trees as shown
 - 12) Provide all staking, guying and mulching of trees
 - 13) Provide tree wraps and water bags as shown
 - 14) Provide all watering, mowing and maintenance service as specified for planting and seeding
 - 15) Provide warranty on items provided under this scope of work as specified. *Refer to L001 landscape specifications including part 1.4 warranty*
 - 16) Provide soil testing *per L001 landscaping specifications part 1.2 B if required*
 - 17) Provide all layout and location of plantings, landscape beds, landscape features and all items provided under this scope of work.
- e. **Fencing & Gates**
- 1) Provide all fencing including rails, gates, posts, mesh, excavation, concrete foundations, mounting plates, fasteners, attachments, and additional items as necessary for a complete fencing system.
 - 2) Provide removal of fence spoils
 - 3) Provide fence and gates for dumpster enclosure *including vinyl inserts*
 - 4) Provide all detention fencing *including razor wire and wire line arms*
 - ~~4)5) Provide all concrete footings at fence posts and midspan eyebolt installations.~~
- f. **Steel Fabrication and Erection**
- 1) Provide and erect all structural, miscellaneous steel and associated items as required for a complete system
 - 2) Provide all steel columns
 - 3) Provide all steel beams

- 4) Provide all steel Joists
- 5) Provide all steel decking *and headed studs.*
- 6) Provide all tubes, channels, bent plates, angle framing, perimeter steel angles, bridging, bracing and related steel components
 - a) *Supply all top of CMU wall channel braces/kickers for installation by masonry bid package. Refer to G130 for typical details.*
 - b) *Provide steel angles and framing as required to brace precast panels to joists/deck per S513 details 10 and 11*
 - c) *Provide all steel angles and light gauge steel clips/enclosure pieces for masonry and precast head of walls*
 - d) *Provide all WT members for deck bearing per details on S510 including welding of deck to members/bearing embeds as shown.*
 - ~~e)~~ *Provide continuous support angle and bent sill plate for detention coiling door sill support per A801/A12 and S512/13 including screw anchors*
- 7) Furnish and deliver anchor bolts, setting plates, bearing plates, steel shims, and loose lintels for installation by concrete, *precast*, and masonry bid package
 - a) *Supply and deliver embeds to concrete bid packages respectively for monument sign precast panel per S002/2*
 - ~~b)~~ *Supply and deliver all steel embed plates for WT bearing per S510/17 typical*
- 8) Furnish and install roof *and slab* opening frames and support
- 9) Provide cutting of metal decking for floor and roof openings. Coordinate with other all trades.
- 10) Provide all prefabricated metal ladders. *Include bent steel plate at hatch to roof*
- 11) Furnish and deliver all steel lintels. Include installation of all lintels with a piece weight over 200 lbs *and any lintels welded to structural members.*
- 12) Furnish and deliver all steel items that are shown to be embedded/grouted into masonry walls
 - ~~a)~~ *Supply all top of CMU wall embed and bent plates for installation by masonry bid package. Refer to G130 for typical details.*
- 13) Furnish and deliver all steel items that are shown to be embedded/grouted into *cast-in place* concrete
 - ~~a)~~ *Supply and deliver embed plates at overhead doors jambs/heads per A801/A12,C12*
- 14) Furnish and deliver *interior* pipe bollards for installation by ~~others~~ *other trade packages.*
- 15) Provide all field measuring necessary for fabrication, installation, and as-built drawings as necessary to complete the bid package Scope of Work
- 16) Provide all layout and surveyor staking as required for installation of items included in this Scope of Work. Include layout, field measure, and pre-installation survey for this Contractor's work. Benchmarks/primary control points to be provided by others
- 17) Provide fasteners for your scope of work including epoxy and expansion anchors as required. *Provide all erection bolts and screws to meet erectors requirements.*
- 18) Include all submittals, shop drawings, samples, and delegated design included in specifications assigned to this Scope of Work per the Contract Documents including structural connections. Provide engineering and shop drawings including seal by a structural engineer registered in the project state.
- 19) Includes erection for all steel unless noted as FURNISH/SUPPLY only above
- 20) Provide shop primed coat for all steel unless noted otherwise
- 21) Provide shop galvanizing, anodizing, and coatings of items furnished under this Scope of Work per Contract Documents
- 22) *"All setting of leveling nuts as needed at anchor bolts. CORE will have one leveling nut per base plate at the correct elevation"* *provide complete anchor bolt and*

- embed survey for embeds installed in masonry, cast-in-place and precast assemblies and provide to CM.*
- 23) Provide all labor, rigging, hoisting, flagging, tag lines, spotters, equipment, and loose hardware as necessary for complete system erection. This Contractor shall not rely upon the Construction Manager to make equipment available for this Contractor's use.
 - 24) Provide all delivery, hauling permits, escorts, and freight charges as necessary for delivery of items provided under this Scope of Work
 - 25) Provide all welding necessary to install items provided under this Scope of Work including all shear and moment connections.
 - 26) This Contractor is solely responsible for all coordination of shop welds and field welds, drawings showing shop and field welds are for reference. This steel provider shall provide coordinated bid.
 - 27) This Contractor shall provide final detailing, calculations, engineering, and engineer's stamp for all steel connections.
 - 28) Provide all temporary bracing as required for the erection of items furnished under this Scope of Work.
 - 29) Provide field and office coordination with all other trades for submittals and in-field installation.
 - 30) Include coordination and scheduling with Owner's testing and inspection Agency
 - 31) *Include touch-up paint/galvanizing coat and patching at connections and other areas damaged by this Contractor. Include touch up painting of field welds*
 - 32) *Provide all unit skylight support framing/curb framing per S513/07 including joist reinforcement, channel and HSS curb.*
 - a) *Install burglar bars at skylights supplied by detention package*
 - 33) *Provide all parapet steel including where noted on S514*
 - 34) *Provide all interior and exterior stairs, railings, guardrails, brackets, pans, stringers, mezzanine guardrails and etc.*
 - 35) *Provide bent steel closure plates at day room interior security storefronts where precast panels connect precast embeds per A602/A2, A602/C2, A850/F4 and similar locations. Weld to HM detention frame as shown. Frames to be installed prior to plate installation.*
 - 36) *Provide all mezzanine level steel framing, deck and etc for a complete system.*
 - 37) *Provide all steel channels at edge of mezzanine slabs (A530/A10 and S401/07 typical) and other locations if applicable*
 - 38) *Provide all catwalk steel including framing, handrails, etc for a complete system.*
 - 39) *Provide and install/field weld storm shelter louver steel plates (S510/14 typical).*
 - 40) *Provide all pour stops*
 - 41) *Provide all grinding and bondo of all welds provided by this Scope of Work for a finished ready to paint system.*
 - 42) *Provide all mechanical chase frames*
 - 43) *Provide safety cables for any 2nd level that require fall protection including at mezzanines. Provide mounting brackets, additional uprights and cable.*
 - 44) *Provide bent steel plates at control room glazing at C10, C8, C6, C4, & C2 on A850 and similar conditions.*
 - 45) *Provide storm shelter steel per S201/02*
 - 46) *Provide all permanent steel shown to brace/support items to precast such as S515/01, 02 typical*
 - 47) *Provide all medallion support steel per S514/08 including steel plate standoffs*
 - 48) *Provide opening framing/support framing for roof hydrant per S513/3*

g. Rough Carpentry

- 1) Provide all interior and exterior wood blocking, sheathing, nailers, and framing.

- 2) Provide all exterior sheathing including sheathing at back of metal stud framed parapets, behind metal panels, *skylight curbs*, and at soffits per A430/E7 typical
- 3) Provide all wood blocking
 - a) *Provide wood blocking at knee walls per G130 wall type P7.*
 - ~~3~~b) *Provide fire treated OSB at padded walls per A530/H5*
- 4) Provide blocking at parapets
- 5) Provide blocking at roof area dividers/*roof height transitions*
- 6) Provide blocking at roof penetrations
- 7) Provide blocking at roof expansion joints
- 8) Provide blocking at roof hatches
- 9) Provide blocking at roof ladders
- 10) Provide blocking at all roof curbs
- 11) Provide blocking at exhaust fan roof penetrations
- 12) Provide blocking at skylights
- 13) Provide blocking at scuppers
- 14) Provide blocking at gutters
- 15) Provide blocking at soffits
- 16) Provide blocking at fascia(s)
- 17) Provide all wood blocking around all doors, storefronts, curtain walls, louvers, borrow-lites and other openings as shown
 - a) Blocking located in precast shall be provided under precast bid package
- 18) Provide bracing for all door frames to prevent racking during drywall installation
- 19) Provide all blocking for all millwork including base cabinets, wall cabinets, full height cabinets, shelving/brackets, countertop brackets and window sills
- 20) Provide ~~all for~~ *blocking for all* handrails
- 21) Provide blocking for all toilet partitions
- 22) Provide blocking for all restroom accessories
- 23) Provide blocking for all TV brackets *and message monitors*
- 24) Provide blocking for network rooms including sheathing for mounting networking equipment to walls *including A101 keynote 6*
- 25) Provide blocking for all interior and exterior signage
- 26) Provide blocking for all window treatments and roller shades. *Refer to A431/G8 for typical detail.*
- 27) Provide blocking for all fire extinguisher cabinets, first aid cabinets, and fire extinguisher brackets,
- 28) Provide blocking for Knox Box
- 29) Provide blocking for all IV and cubical curtain tracks, *refer to A200/H11 for typical detail*
- 30) Provide blocking for all mounting wall stops, automatic operator push buttons, card readers and all other wall mounted door hardware
- 31) Provide blocking all marker boards, tack boards, sliding markerboards, map rails, and other visual display items
- 32) Provide blocking for access doors/panels
- 33) Provide blocking for all lockers as shown including locker base per A700/~~04~~ *D4 typical*
- 34) Provide all in-wall blocking for all wall hung items including items furnished by Owner
- 35) Metal strap blocking may be used in lieu of wood blocking at Contractor's option
- 36) Provide all fasteners and bolts as necessary to install items included in this Scope of Work
- 37) Include all necessary coordination of in-wall blocking locations with Subcontractors and other trades

- 38) Provide temporary guardrails for all areas required per OSHA standards including but not limited to all staircases, and interior raised platforms such as the mezzanines. Include all required maintenance until installation of permanent guardrails. Refer to project schedule.
- 39) Provide all covers and barricades at slab openings and other areas required by OSHA standards or CORE's safety manual. Include all required maintenance until installation of permanent items. Refer to project schedule.
- 40) All wood in contact with concrete shall be pressure treated. All wood in concealed spaces shall be fire treated
- 41) Provide temporary door openings at the 1st floor exterior doors for material access, with 2x framing, plywood, and hardware.
- 42) Include 2x wood stud framed temporary enclosures with 10 mil string reinforced visqueen for exterior openings. Construction temporary enclosures to resist high wind loads present at the project site. Include maintenance and repair of openings as necessary.

~~42)43) Provide void insulation fill at top of precast wall and deck per A430/E9~~

~~43) Provide temporary ramp on roof between elevation changes.~~

h. Fire Stopping & Security Joint Sealants

~~1) Provide penetration and assembly firestopping.~~

~~2)1) Provide all security/pick-proof sealants/caulking for penetrations and assemblies including pick proof caulking in the secure perimeter per A100 general security note 4.~~

2) Provide all security caulking *and backer rod* at hollow metal frames (detention and non-detention).

3) *Provide all pick proof/security caulking at stainless steel frames*

4) *Provide all pick proof/security caulking at aluminum frames.*

5) *Provide all pick proof/security caulking at door thresholds, see A801/A6 typical*

~~3)6) Provide all pick proof/security caulking at overhead coiling/sectional doors~~

7) Provide all *security* caulking at detention toilet units, toilet accessories and other equipment

8) *Provide all pick proof/security caulking at security glazing/frames*

9) *Provide pick proof/security caulking for precast panels.*

10) *Provide all foam-in place insulation in precast panels where both side of panel are sealed with pickproof/security caulking.*

11) *Provide all additional pick resistant sealant at all interior chamfer that receive rubber wall base per Contract Documents. Refer to A400 precast general note 7*

12) *Provide pick proof/security continuous sealant and backer rod around wall sleeves penetrating wall, deck and roof assemblies.*

13) *Provide pickproof/security caulking of masonry expansion joints*

14) *Provide all security caulk at head of wall, bottom of wall and wall transitions for drywall/CMU/Precast partitions. Refer to G130 for typical details.*

15) *Provide pick proof/security caulking at columns per A102 keynote 16*

16) *Provide pick proof/security caulking at backsplashes at secure perimeter and where noted.*

17) *Provide security sealant at metal plank ceiling per A200 detail H10*

18) *Provide pick proof/security caulk at top of resilient, cove and epoxy base*

19) *Provide pick proof/security caulking at mezzanine deck slab joints per S510/16, 17 typical*

20) *Provide pick proof/security caulking where slab on grade abuts precast within the secure perimeter per A430 detail A8 typical*

21) *Provide pick proof/security caulking at exposed non-welded steel connections. Refer to A530/A10 for typical details*

22) *Provide pick proof/security caulking around interior bollards per A531/A8*

- 4)23) Supply paintable caulk where required*
- i. **Aluminum, Glass & Glazing**
- 1) Provide all glass and glazing systems per drawings and specifications
 - 2) Provide all *non-security* exterior aluminum framed storefronts including all glass, mullions, framing, and associated items
 - 3) Provide all *non-security* interior aluminum framed storefronts including all glass, mullions, framing and associated items
 - 4) Provide all *non-security* aluminum framed curtain walls including all glass, spandrel glass, mullions, framing and associated items
 - 5) Provide all insulated panels
 - 6) Provide all unit skylights including all curbs, internal gutters, thermally broken construction and related fall protection screens
 - 6)a) Provide metal liner panel, receiver, trims and sealant at skylights per A151 detail A4 typical*
 - 7) Provide all insulated-properties, color, coatings, opacity, tinting, fire ratings, and tempering door glass and frames as specified
 - 8) Provide all gaskets, clips, anchors, jointing, drainage, flashings, anchoring, shims, back rods, sealants, glazing tape, break metal trims, miscellaneous glazing materials, caulking (including exterior and interior primary caulking), and related appurtenances as necessary for a complete watertight system
 - 9) Provide all aluminum doors and frames and related door lites, aluminum sidelites, transoms and borrowed lites. This includes all related lites/glazing
 - 10) Install all hardware and cores for aluminum doors ~~provided by others~~*furnished by door supplier*. Card reader, power supplies, wall switches, battery backups, will be installed by others. Furnish and install all pull/push sets, thresholds and weatherstripping
 - 11) Include coordination of all doors and frame hardware preparation including for access control *and security and detention hardware*. Include coordination of raceways with access controls
 - 12) This Contractor is responsible for reviewing the door hardware submittal to confirm compatibility with material supplied by this Contractor and notifying the CM of any discrepancies. Include coordinating of raceways with access controls *and security and detention hardware*.
 - 13) Includes all locks and cylinders for Aluminum doors as required. Includes coordination of Keying with Owner and Door Hardware Supplier *and security and detention hardware*.
 - 14) Provide all auto operators, push buttons, and bollards for mounting buttons
 - 15) Provide all glass for wood doors, *non-detention* hollow metal doors and *non-detention* hollow metal framed openings including all sidelites, transoms, and borrow lites
 - 16) ~~Provide all bullet proof/resistant glazing and bullet films~~*Removed*
 - 17) Provide all insulation and taping where insulation is located behind ~~spandrel~~*spandrel* glass or other glazing systems *include where shown on A430/E4*
 - 18) This Contractor shall remove and dispose of temporary partitions installed in glazing openings by others. Include hauling of all removed material to dumpsters provided by general trades.
 - 19) Provide all *non-security* sealants, backer rods, break metal, gasketing, and flashings necessary for complete systems provided under this Scope of Work. This includes primary interior and exterior caulk as shown and specified
 - 20) Provide all anchors, shims, flashing, clips, glazing tape, drainage, accessories, fasteners, and adjusting per the specifications and manufacturers' recommendations

- 21) Provide all testing per specification including water testing and per manufacturers' recommendations.
- 22) Provide all warranties as specified and manufacturers' recommendations.
- 23) Provide all mockups
- 24) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 25) Provide all shop drawings and engineering as required
- 26) Provide removal of all stickers, buttons, and clean up of errant caulking at all items installed under this Scope of Work. Final cleaning by others
- 27) Provide all safety etching/labels must be visible and note covered by mullions at all safety glazing
- 28) Provide pre-installation conference with manufacturer rep
- 29) Provide all lifts, scaffolds, and hoisting for this Scope of Work
- 30) Provide colors from manufacturer's full range. Include all cost premiums associated with providing specified colors.
- 31) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 32) Ensure all material is installed without damage. Damaged material will be sent back for repair or replacement.
- 33) All detention glazing and frames to be provided by Detention Bid Package
- 34) *Provide black aluminum wire mesh insect screen and frame at overhead doors. See RFI 95*
- 35) *Provide field water spray test per section 08 44 13 part 3.2*
- ~~33~~36) *Provide prefinished aluminum closure flashing/sill/jambes to match curtainwall, refer to A800 detail E12 for typical detail*

j. Architectural Millwork

- 1) Provide all finish carpentry and millwork
- 2) Provide all casework including base, wall, full height and other built-in cabinets including all hardware and hardware preps
- 3) Provide all wood shelving with associated standards, supports, brackets, and coat rods
- 4) Provide all plastic laminate ADA panels with finished ends
- 5) Provide all PLAM and solid surface sills
- 6) Provide all PLAM, solid surface, and quartz counters, countertops and backsplashes including all exposed and concealed brackets
- 7) Provide caulking *for this Scope of Work including* for all backsplashes *and window sills*
- 8) Provide reception desk complete, reception desk to be shop fabricated to greatest extent feasible
- 9) Provide all wood, trims, closure panels, caps, and accent pieces
- 10) ~~Provide all wood handrails and handrail brackets. Provide all wood handrails for steel stairs. NA~~
- 11) Provide all seaming of countertops per manufacturer's requirements and include caulking as required.
- 12) Provide all locks at cabinet doors, cabinet drawers, tote cabinets, doors, etc. *include keyed a-like if required during a keying meeting with client to review cabinets All locks shall be keyed alike. Include all specified keying and keying meetings with the Owner*
- 13) Provide all cardboard protection over all countertops

- 14) Provide all sink cut outs, grommets, medallions, finished ends, scribes, closure pieces, trash pullouts, shims, filler panels/pieces, end panels, edge-banding, fasteners, anchors, caulking and other items as necessary for a complete system
- 15) All trim to be pre-finished (when called out to be stained and varnished. Primer only when called to be painted)
- 16) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 17) Provide all survey, staking and layout as necessary to complete the bid package Scope of Work. Construction Manager will provide onsite benchmarks
- 18) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 19) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 20) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 21) Include coordination as required with plumber for sink cut out templates
- 22) Include puttying of nail holes in shop stained wood trim
- 23) *provide plastic lamination shelves, adjustable standards, closet rods and brackets per contract documents. Include PVC edge banding where shown. Refer to A700 for typical details*
- ~~22)~~24) *Provide all fabric wrapped tack surface per contract documents.*

k. Non-Detention Hollow Metal Doors, Frames, & Hardware

- 1) Provide all *non-detention* hollow metal doors, wood doors, hollow metal frames and finish hardware.
- 2) Provide all *non-detention* hollow metal borrow lites and storefronts.
- 3) Wood doors to be supplied prefinished
- 4) Hollow metal doors and frames to be supplied primed, Supply touch-up kits
- 5) Provide all lite kits/glazing stops for field glazing for items provided under this Scope of Work.
- 6) Provide all construction cores and control keys for use during construction at exterior doors. Core to be returned at the end of the project.
- 7) Provide *non-security* mastic at door thresholds
- 8) Include supply of aluminum door hardware for installation by glazier
- 9) Include coordination of all doors and frames hardware prep including for access controls, *security and detention hardware*, and aluminum doors.
- 10) Provide all door and window bucks, spreaders, etc. for masonry and drywall installations to occur and maintain openings
- 11) ~~Provide bituminous coatings for grouted hollow metal frames removed~~
- 12) Include all specified keying and keying meetings with the Owner. Include collaboration in keying meeting with the Contractor and Owner representatives.
- 13) Provide all field welding necessary to install hollow metal storefronts and borrow lites.
- 14) Provide welded hollow metal frames, knocked down frames are not permissible for the project schedule.
- 15) Provide rated doors and frames, and all associated labels and tagging, as required for those in rated assemblies. *This includes storm rated doors/frames/hardware*
- 16) Include all required accessories including silencers, supports, anchors, inserts, bolts, fasteners, glazing stops, and etcetera. All door hardware is to be labeled by opening to match the hardware schedule.

- 17) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 18) Ensure all doors, frames, hardware, etc. are undamaged upon delivery
- 19) Provide all survey, staking and layout as necessary to complete the bid package Scope of Work. Construction Manager will provide onsite benchmarks
- 20) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 21) *Provide all non-security sealant, backer rod and caulking for standard hollow metal frames and borrow lites.*
- ~~20~~22) *All items provided for anchoring of frames and hardware to be as specified including any required detention grade items as outlined in the Contract Documents.*

i. Overhead Coiling and Sectional Doors

- 1) Provide doors that comply with project manuals including wind load strength, slat material, factory finishing, hood enclosures, guides, electric operators, manual crank operators, R-Value, etc
- 2) Provide structural steel three angle guides *and track guides including all welding to embed plate per A801/C12 and A800/G6 typical*
- 3) Include complete operators and control stations/switches installation. Coordinate with the electrical Subcontractor for power.
- 4) Coordinate with Contractor for steel and in-wall blocking support
- 5) Provide all locks as required. Coordinate keying with Owner and Contractor
- 6) Include Owner demonstration and training as required.
- 7) Provide all testing and final adjustments as required to ensure proper ~~and safe~~ *and safe* operation.
- 8) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 9) Provide all survey, staking and layout as necessary to complete the bid package Scope of Work. Construction Manager will provide onsite benchmarks
- 10) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 11) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 12) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 13) *Provide insert screen per details*
- 14) *Provide all tracks, hardware, seals and etc. for a complete installation*
- ~~12~~15) *Provide all non-security caulking around opening frames*

m. Access Doors & Frames- removed

- ~~1) Provide all access doors and panels indicated on drawings and project manual~~

n. Metal Studs/Drywall/Insulation/Ceiling Package

- 1) Provide all heavy and light gauge metal stud framing including, studs, channels, furrings, joists, hat channels, bracing, bridging, kickers, *deflection tracks*, and all other cold formed framing.
 - ~~1~~a) *Provide wall stabilizer posts at knee walls. Refer to G130 wall type P7 for typical details.*
- 2) Provide all delegated design and engineering for cold-formed metal stud framing including licensed engineer's stamp on shop drawings
- 3) Provide all gypsum board products *including moisture resistant gypsum where required by Contract Documents.*

- 4) Provide all ~~ement~~ tile backer board, provide taping if required by manufacturer
- 5) Provide all drywall at reception desk
- 6) Provide bullet resistant/*ballistically rated* fiberglass panels
- 7) Provide abuse/*impact* resistant drywall where noted
- 8) Provide security mesh in gypsum board/*metal stud* assemblies.
- 9) All drywall returns at windows/storefront/curtain wall as indicated. Separate mobilizations for this work may be required
- 10) Provide all taping and finishing of gypsum board products *per 092900 part 3.6 D- Provide level 1 finish above finished ceilings where concealed from view*
- 11) ~~Provide level 5 finish at the following locations per construction documents NA~~
- 12) Provide all *non-security* caulking of drywall assemblies to storefronts and curtain walls
- 13) Provide coordination with MEPFP trades for penetrations in walls
- 14) Provide all insulation unless noted otherwise including in-wall batt insulation, blown-in insulation and spray insulation
14)a) Provide batt insulation at soffits per A430/E7 typical
- 15) Provide vapor barrier at building exterior walls *where shown*
- 16) Provide all acoustic ceilings and associated grids
 - a) Provide ACT-1 through ACT-3
- 17) Provide all gypsum ceilings and associated framing
 - a) Provide GB security ceilings
- 18) Provide all *hard ceilings*, soffits, *and* bulkheads and associated framing, *wires, etc*
- 19) Provide all wall angle, fasteners, trapeze hangers, hangers, hanger wires, hold down clips, main runners, tees, fasteners, seismic clips, etc. for a complete ceiling installation
- 20) Provide all uni-strut for bridging as required
- 21) ~~Provide all stenciling and identification of rated assemblies provided under this Scope of Work Removed~~
- 22) Provide rough-ins for fire extinguisher cabinets and other Division 10 recessed items. *Refer to G130/A12 for typical detail.*
- 23) Provide all fasteners, corner beads, J-beads, hangers, clips, anchors, control joints, backplates, and other accessories as required for a complete installation of Items provided under this Scope of Work
23)a) Provide Simpson clips where cold form framing attaches to structural steel (S514/01, 02 and 03 typical details) including all fasteners/welding required.
- 24) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 25) Provide all ~~survey, staking and~~ layout as necessary to complete the bid package Scope of Work. ~~Construction Manager will provide onsite benchmarks~~
- 26) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 27) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 28) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 29) All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- 30) All bid packages are responsible for their own daily clean-up to the dumpsters supplied

- 31) Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- 32) Provide all maintenance stock/extra materials as specified for your Scope of Work
- 33) *Provide all firestop and non-security caulking/putty for items provided under this scope of work. Provide all assemblies as detailed and per UL designation*
- a) *Provide all mineral wool safing/deck infill*
- b) *Provide all light gauge closure plates for head of wall assemblies provided under this scope of work.*
- c) *Provide all non-security caulking/fill material for head of wall, base of wall and where this assembly abuts dissimilar assemblies such as precast, structural steel, masonry as determined by construction sequence.*
- 34) *Provide all framing for shades, coiling doors, overhead doors, and etc. pockets as required.*
- 35) *Provide suspended hard ceilings, including framing, wires, and etc.*
- 36) *provide all furring assemblies*
- 37) *Provide sheet metal plate at top of metal stud wall per S515/04*
- o. **FRP/Resin Panels Protection Panels NA**
- 1) ~~Provide all FRP plastic protection panels where shown including panels, adhesive, and trim pieces per Contract Documents~~
- p. **Flooring & Tile Package**
- 1) Provide all carpet where shown
- 2) Provide all walk off carpet
- 3) Provide all luxury vinyl tile where shown
- 4) Provide all rubber tile
- 5) Provide all ~~static dissipative~~ *veemedrveemedrvechluterve17eemed17tive-tile static dissipative vinyl composition tile*
- 6) Provide all resilient base *and cove base* where shown including locations where base is shown but flooring is provided by others (such as sealed concrete)
- 7) Provide all transitions including transitions from tile to other flooring systems
- 8) Provide all floor and wall tile including all tile cove base and tile backsplashes. Provide grout as specified for all tile work.
- ~~8)a)~~ *Provide extra floor tile (RT1) per note 5/A910*
- 9) Provide grout sealer
- 10) Provide crack isolation membrane with full coverage under floor tile
- 11) Provide all ~~schlutereemedr~~ trims at exposed tile edges
- 12) Provide all cleaning and removal of grout and setting materials from face of tile upon install completion
- 13) Provide all floor expansion joints as required for this Scope of Work
- 14) Provide all required minor floor preparation as necessary to prepare for flooring installation, including filling saw cuts in slabs (control joints) with specified material, filling construction joints and nail holes in slabs with specified material, filling column diamond box outs with specified material, and minor leveling and grinding. Include sweeping and cleaning flooring areas prior to floor installation.
- 15) Provide moisture testing as required per manufacturer instructions *for items installed under this scope of work* prior to installation; provide results to the Construction Manger in writing. *Refer to section 09 6813 part 3.2 for additional information.*
- 16) ~~This Contractor is advised that a moisture vapor reducing admixture (MVRA) will be used in all slabs that are specified to receive resilient. This Contractor shall coordinate with admixture manufacture to confirm compatibility of specified flooring and adhesives with the proposed MVRA. MVRA manufacture shall hold the flooring warranty- Removed~~

- 17) Provide all miscellaneous accessories including resilient or aluminum edge/transition strips, reducers, adhesives, mastics, leveling compounds, setting materials, primers, leveling and patching compounds, and other accessories for a complete installation
- 18) Provide all *non-security* joint sealants to complete this Scope of Work. Includes caulking to all adjacent materials as required.
18)a) Provide all non-security caulking at top of resilient/cove base
- 19) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 20) Provide all survey and layout as necessary to complete the bid package Scope of Work.
- 21) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 22) Install flooring per the manufacturer's recommendations to maintain all warranties. Notify Construction Manager if manufacturer's recommendations conflict with any contract document provisions
- 23) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 24) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 25) All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- 26) All bid packages are responsible for their own daily clean-up to the dumpsters supplied
- 27) Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- 28) Provide all maintenance stock/extra materials as specified for your Scope of Work
- 29) This contractor shall be required to inspect all flooring prior to installation, for any areas that are ~~deemed~~ *deemed* by this contractor to require excessive floor prep, notify the Construction Manager in writing before doing the work. Floor prep done without CORE's approval will not be entitled to additional compensation

q. Epoxy Flooring

- 1) Provide all epoxy flooring with integral cove base per Contract Documents
- 2) Provide floor preparation as necessary to install epoxy floor on concrete subfloor containing moisture reducing admixture including light shot blast (brush blast) of concrete subfloor
- 3) Provide all cleaning and *non-security* caulking of joints, sealants, transition strips, and attic stock as required.
3)a) Provide all non-security caulk at top of epoxy base per details on A900
- 4) Provide all required, minor floor preparation as necessary to prepare for flooring installation, including machine scrub, filling saw cuts in slabs (control joints) with specified material, filling construction joints and nail holes in slabs with specified material, filling column diamond box outs with specified material, and minor leveling and grinding. Include sweeping and cleaning of flooring areas prior to flooring installation
- 5) If Subcontractor determines an area requires excessive floor prep, written notification to the Contractor (and written approval from the Contractor) is required before proceeding with the additional floor prep work. Extra floor prep done without Contractor's prior approval is not entitled to additional compensation.

- 6) Protect surrounding finishes as needed during installation of items under this Scope of Work
- 7) Provide moisture testing as required per manufacturer instructions prior to installation; provide results to the Construction Manager in writing
- 8) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 9) All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- 10) All bid packages are responsible for their own daily clean-up to the dumpsters supplied
- 11) Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- 12) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 13) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 14) Provide all survey and layout as necessary to complete the bid package Scope of Work.

r. **Painting**

- 1) Provide painting of new walls, ceilings, soffits and bulkheads. *Provide block filler where required.*
 - 1)a) *Paint concrete walls where noted, refer to A601 booking desk details.*
- 2) ~~All walls and ceiling to receive one coat of primer and a minimum of two finish coats. If two finish coats do not provide adequate coverage, Contractor will furnish and install additional coats until adequate coverage is achieved. Provide primer and finish coats per Contract Documents.~~
- 3) Include final sealer on flooring areas scheduled to received sealed concrete floors as a final finish
- 4) Provide prepping and painting of all new hollow metal doors, *steel detention*, and frames
- 5) Provide prepping and painting of all exposed steel including columns, beams, bracing, steel joists and decking
 - 5)a) *Paint burglar bars and exposed steel at skylights per A151/A4 typical*
- 6) Provide prepping and painting of all exposed pipes, ducts, hangers, *and all other exposed MEP items*
- 7) Provide painting of *interior* bollards
- 8) Paint exposed millwork brackets *and ledgers. Refer to A700.*
- 9) ~~Provide all joint sealants required for a complete painting package including but not limited to all caulking of hollow metal doors and frames to adjacent surfaces, caulking of drywall to adjacent surfaces, caulking of drywall to masonry, caulking of all storefront doors and windows to drywall Removed~~
- 10) Paint precast panels per contract documents
- 11) Provide all painted floor lines
- 12) Paint underside of mezzanine floor
- 13) *Paint all exposed gas and water piping per P000 keynote 20. This includes gas piping on roof and exterior of building.*
- 14) *Provide all non-floor epoxy coatings as specified and where required by Contract Documents*
- 15) *Paint all stairs, treads and stair railings, refer to A530 for typical details*
- 16) *Paint all guardrails, steel deck edges, steel bent plates at openings.*
- 17) *Paint all exposed embeds.*
- 18) *Paint downspout boots per detail on C125*
- 19) *Paint steel embed blocks per A531/C5.*

- ~~12)20) Paint all detention items requiring field finishing~~
- s. **Signage**
- 1) Provide all interior and exterior signage including dimensional letters, panel signs and medallion signage.
 - 2) *Provide signage noted on G101 for storm shelter/tornado safe room*
 - 3) *Provide signage permit per C100 keynote 5*
 - ~~4) all items to be prefinished/shop painted~~
- t. **Toilet Partitions**
- 1) Provide all toilet compartments and urinal screens
- u. **Toilet Accessories**
- 1) Provide all non-detention toilet accessories per specification and toilet accessory schedule on A600
- v. **Fire Extinguishers & Cabinets**
- 1) Provide all first aid cabinets
 - 2) Provide all fire extinguishers
 - 3) Provide all fire extinguisher cabinets
 - 4) Provide knox box *with tamper switch*
 - ~~4)5) Includes final inspection and certified tagging of extinguishers~~
- w. **Lockers**
- 1) Provide all *prefinished* metal lockers including doors, padlock hasps, sloped top, number plates, coat hooks, hinges, filler panels, end panels and other accessories for a complete system.
 - 2) All lockers to be all welded construction
- x. **Window Shades & Curtains**
- 1) Provide window shades per project documents.
 - 2) Provide shades per materials, fabric and colors noted in interior finish schedule and specifications.
 - 3) Drive chain and chain retainer to be installed in a manner where shades are fully operational and operate without impacting one another. Final retainers install location to be confirmed with the Contractor and Architect prior to start of installation.
 - ~~3)4) Provide all connect all low voltage wiring required. Electrical contractor will provide power~~
 - ~~4)5) Provide all survey and layout as necessary to complete the bid package Scope of Work.~~
 - ~~5)6) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work~~
 - ~~6)7) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.~~
- y. **Flagpoles**
- 1) Provide all flags poles including concrete base, excavation, backfill, setting, flags and accessories as specified and as required for a complete system
 - 2) Include engineering
- z. **Kitchen Equipment**
- 1) Provide all foodservice equipment
 - 2) *Provide all non-security caulking of equipment*
 - ~~3) provide all starters, VFDs, controls, special plugs, etc for equipment~~
- aa. **Equipment**
- 1) Install and/or furnish equipment per equipment schedule on A600.
 - 2) *Install owner furnished visual display items including tack boards and marker boards*
 - 3) *Provide all non-security caulking of equipment*
 - ~~4) provide all starters, VFDs, controls, special plugs, etc for equipment~~
- bb. **Commercial Laundry**

- 1) Install and/or furnish equipment per equipment schedule on A600
- 2) *Provide commercial washer and dryer*
- 3) *Provide all non-security caulking of equipment*
- 4) *provide all starters, VFDs, controls, special plugs, etc for equipment*
- cc. **Mobile Storage Shelving (alternate)**
 - 1) *Provide manual rolling storage unit per A102 keynote 14. Mount track on concrete slab.*
 - 2) *Provide all grouting of rails for level installation*
 - 3) *Provide fire retardant raised floor / ramp for ADA compliant installation*
 - 4) *Provide all carriages, drive/guide system, wheels, face panels, shelves, accessories adjusting, cleaning and Owner demonstration as specified*
- dd. **Acoustic Treatments**
 - 1) *Provide all acoustic wall panels AWP1*
 - 2) *Provide all field measuring necessary for fabrication, installation and as-built drawings*
 - 3) *Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work*
 - 4) *Provide all layout as necessary to complete the bid package Scope of Work.*
- ee. **Expansion Joint Covers**
 - 1) *Provide all architectural expansion joint covers including joint shown on A531/D8*

E. Bid Package 04 – Civil Package

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications *-(listed items are complete unless noted otherwise) :*
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 079200 Joint Sealant [As applicable]
 - e. 311000 Site Clearing
 - f. 312000 Earth Moving [As Applicable]
 - g. 321123 Aggregate Base Courses
 - h. 330500 Common Work Results for Utilities
 - i. 331415 Site Water Distribution Piping
 - j. 334100 Storm Utility Drainage Piping
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. Include a ~~\$5,5000~~ **\$5,000** allowance for field tile conflict and relocation and removing unknown obstructions.
 - b. Include a **\$20,000** allowance for maintenance, regrading and dress up of temporary access roads/laydown areas as well as pavement aggregate subbase areas utilized as access/laydown areas. Include multiple mobilizations to accomplish this work. *Refer to RFI 109.*
 - c. *Include an allowance of \$50,000 for lime stabilization for building pad and pavements.*
 - ~~b-d.~~ *Include an allowance of \$10,000 for storm, water and sanitary connections and tap fees. Per RFI 53.*
 - ~~e-e.~~ All allowances will be for use as directed by the Construction Manager.
 - f. Any allowances listed ~~below-~~ *above* are independent of any items listed below in Section 5 – Scope of Work. Allowances are not intended to cover the costs of any items listed in the Scope of Work.

g. Each allowance shall be a separate line item within the schedule of values for each pay application.

h. Refer to 01 21 00 Allowances for additional information.

5. **Scope of Work**

- 1) ***This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"***
- 2) *Scope breakouts below are provided for organization purposes only. Bidders for this package shall provide a complete bid for all items listed under this bid package Scope of Work.*

a. Site Demolition and Earthwork

- 1) Provide all site demolition and clearing. *Provide all associated haul-off and disposal*
- 2) Demolished items by this bid package shall not be disposed of in the General Trades dumpster
- 3) Include all site stripping, vegetation removal and disposal
- 4) Include all erosion control and SWPPP measures including daily ~~maintenance for entire duration of the project while on-site~~ and removal as directed by the Construction Manager. Include filing out and maintaining SWPPP inspection reports ~~for the duration of erosion control measure installation while on-site~~. Erosion Control includes:
 - a) Silt Fence
 - b) Inlet protection/baskets for all existing and new inlets in the area of work
 - c) Temporary seeding of areas disturbed by this Contractor. *Temporary seeding per C001 seeding note 1. This contractor shall provide reseeding per L001 specifications part 3.8 if reseeding is required due to inadequate maintenance of the specified erosion control measures.*
 - d) Concrete Washout
 - e) Erosion Control Blankets, *provide blankets at locations per C102 Erosion control note 7.*
 - f) Ditch Checks/Straw Bales
 - g) Stabilized Construction Entrance
- 5) Include dust control measures as specified, include all temporary water costs including water connection, metering, trucking, and fees as necessary
- 6) ~~Provide temporary aggregate roads/laydown/parking areas as noted on site logistics plan. Final grades to be within 1 inch of final elevations~~ *Removed*
- 7) ~~Roads shall be a Typar or Fabric separator with 6" depth recycled/reject with 3" depth CA-6 cap. Remove temp areas at project completion and replace with final pavement/sidewalk or topsoil. Placement and removal locations and timelines only as directed by the Construction Manager.~~ *Removed*
- 8) ~~Where temporary roads are noted at paved locations, this Contractor may at their option either install the permanent aggregate base above the temporary road (typar, 6" recycle/3" cap) or regrade repair and final grade the permanent aggregate base immediately prior to paving installation. All specified paving grades shall be maintained. Temporary roads will be utilized for construction traffic throughout construction and final paving will be installed near the end of the project as shown on the project schedule.~~ *Removed*
- 9) Include all site/mass excavation work including grading, compaction, subgrade preparation and all work necessary to bring site to specified grades. Provide positive drainage away from all buildings, walls, columns, and walkways. *Provide grass swales where noted.*
- 10) Include stripping of topsoil at depths indicated on geotechnical report, specifications or drawings, whichever is deeper.
- 11) Stockpile topsoil onsite separately from fill soil.

- 12) Dispose of surplus topsoil on site by either deepening respread depths or respreading at location ~~noted on site logistics plan~~ *on-site at direction of Construction Manager.*
- 13) Provide topsoil for all planting beds and islands per L101
- 14) Include respreading topsoil to specified depths. Import additional topsoil if required
- 15) Include buildup of building pad to subgrade using suitable fill material in lifts as specified in either geotechnical report or specifications, whichever is stricter
- 16) Stockpile excess cut dirt separate from topsoil
- 17) Building up berms or loose excess soil on-site
- 18) Load, truck, haul-off and legally dispose of all unstable spoils
- 19) Include import of suitable fill material if necessary
- 20) Include proof rolling of structural fill areas with procedures recommended in the geotechnical report. Proof roll subgrade immediately after topsoil removal to determine field soil conditions
- 21) Include excavation and grading for new pavement and walk areas. All backfilling of sidewalks, pavement, and curb & gutter once these areas are complete.
- 22) Include "coring"/excavation as necessary to install aggregate base at walkways. *Refer to RFI 47.*
- 23) Provide compacted granular trench backfill where the gas service installed by others crosses paving areas
- 24) Provide all aggregate base for walks, curbs, *flumes*, concrete paving and other site concrete items
- 25) Provide all aggregate base for asphalt paving
- 26) ~~Provide all underslab granular for building slabs~~ *This contractor shall undercut 24" of unsuitable soils to 5' outside the building pad and backfill it with imported granular material to the subgrade elevation. This will be a backfill depth will be 18" deep at the 6" slab, 20" deep at 4" slabs, etc as required to achieve the subgrade elevation. Refer to RFI 3.*
- 27) This contractor is responsible for locating underground utilities by contracting and scheduling the local joint utility locating service prior to the execution of any earthwork, utility, and/or excavation work. All results to be provided to Construction Manager for as-built documentation purposes
- 28) This contractor is responsible for locating all **private** underground utilities by engaging a private utility location firm prior to the execution of any earthwork, utility, and/or excavation work. All results to be provided to Construction Manager for as-built documentation purposes
- 29) Provide all permits, fee and inspections for this Scope of Work *including any required right of way permits*
- 30) All flagging and traffic control for your scope of work. Provide a right of way permit if required
- 31) Provide and maintain tree protection. Trees to be protected with snow fence in a perimeter at least twice the diameter of the tree canopy to avoid root damage
- 32) Include street cleaning for debris and mud tracked on streets by this Contractor's operations *within 4 hours and daily*
- 33) ~~Repair or reroute all damaged or uncovered drain tiles caused by this scope of work~~ *Removed*
- 34) This Contractor shall review the geotechnical report and comply with all requirements and recommendations
- 35) *Provide rip rap at curb cuts and any locations not covered by the storm line item below.*
- 36) *This contractor shall haul off-site 175 CY of spoils generated by general trades contractor (aggregate piers).*

- 37) *Provide temporary aggregate roads/laydown/parking areas as noted on site logistics plan.*
- a) *Roads at proposed seeded areas shall be a Tytar or Fabric separator with 6" depth recycled/reject with 4" depth CA-6 cap. Remove temporary roads at these areas at project completion and replace with topsoil. Placement and removal locations and timelines only as directed by the Construction Manager.*
 - b) *Where temporary roads are noted at paved locations such as light duty pavement, heavy duty pavement, sidewalks, exterior housekeeping pads, etc this Contractor shall provide additional recycled/reject concrete or CA-6 below the permanent CA-6 base called for in the details on C111 to provide a minimum of 10" of aggregate regardless of alternate selection or pavement depth/type. A fabric separator shall be provided as well for all temporary road locations.*
 - c) *Repair, maintiance, and final regrading of all temporary roads prior to concrete installation will be addressed via contingency "B" for this bid package.*
 - d) *Temporary roads will be utilized for construction traffic throughout construction and final paving will be installed near the end of the project as shown on the project schedule.*
 - e) *This contractor at their option and at no additional cost provide CA-6 at all locations reject/recycled concrete is called for. All recycled/reject concrete shall be covered by a minimum cap of 4" of CA-6.*
- ~~34~~38) *Provide all dewatering of rainwater as required to complete this Scope of Work. Comply with NOI standards, refer to RFI 45*

b. Storm Sewer

- 1) Provide complete site storm system to within 5'-0" of the building. Include all piping, structures, castings, cleanouts, flared end sections, culverts, connections, excavation, beddings, backfill and additional items as required for a complete system
- 2) Provide compacted granular trench backfill at structural areas
- 3) Provide connection to existing manholes
- 4) Provide rip rap at outlets/culverts
- 5) Spoils to be hauled off-site, unless otherwise noted. Soils maybe used structural fill areas only if material complies with requirements in geotechnical report and specifications
- 6) Provide all dewatering of rainwater as required to complete this Scope of Work. *Comply with NOI standards, refer to RFI 45*
- 7) This Contractor shall review the geotechnical report and comply with all requirements and recommendations.
- 8) Provide all sewer connection fees, permits and inspections *including any required right of way permits*
- 9) Provide all testing as specified
- 10) *Provide all encasing or other approved means of separation of storm sewer as required at utility crossings*
- 11) *Provide downspout collection system to building and connection to storm sewer*
- 12) *Provide cast iron downspout boots per C125.*
- ~~9~~13) *Provie all insulation shown on utilities beyond 5' from building*

c. Sanitary Sewer

- 1) Provide complete sanitary sewer system to within 5'-0" of the building including all piping structures, *casings*, castings, cleanouts, connections, excavation, beddings, backfill and additional items as required for a complete system
 - a) *Provide sanitary piping from future city pump station to grinder pump manhole.*

- b) *Provide grinder manhole and grinder pump*
- ~~1)c)~~ *Extend sanitary from grinder pump/manhole to 5' outside of proposed building.*
- 2) Provide compacted granular trench backfill at structural areas
- 3) Provide connection to existing manholes
- 4) Spoils to be hauled off-site, unless otherwise noted. Soils maybe used *for* structural fill areas only if material complies with requirements ins geotechnical report and specifications
- 5) Provide all sanitary fees, permits and inspections *including any required right of way permits*
- 6) Provide all testing as specified
- 7) Provide all dewatering of rainwater as required to complete this Scope of Work. *Comply with NOI standards, refer to RFI 45*
- 8) This Contractor shall review the geotechnical report and comply with all requirements and recommendations
- ~~8)9)~~ *Provie all insulation shown on utilities beyond 5' from building*
- d. **Water Service**
 - 1) Provide complete water ~~sewer-service~~ system. Water service shall be stubbed up 12" above finish floor inside the building by this contractor. Water service system includes but is not limited to all piping, *hydrants*, structures, castings, cleanouts, connections, *thrust blocks, tees, valves*, excavation, beddings, backfill and additional items as required for a complete system
 - 2) Provide compacted granular trench backfill at structural areas
 - 3) ~~Provide connection to existing manholes NA~~
 - 4) Spoils to be hauled off-site, unless otherwise noted. Soils maybe used *at* structural fill areas only if material complies with requirements ins geotechnical report and specifications
 - 5) Provide tap fees, inspections, and permits for water service
 - 6) Provide all testing as specified
 - 7) Provide all dewatering of rainwater as required to complete this Scope of Work. *Comply with NOI standards, refer to RFI 45*
 - 8) *Provide all encasing or other approved means of separation water service as required at utility crossings*
 - 9) *Provide all flushing and disinfection of water main piping as required*
 - ~~7)10)~~ *Provie all insulation shown on utilities beyond 5' from building*
- ~~8)e.~~ This Contractor shall review the geotechnical report and comply with all requirements and recommendations

F. Bid Package 05 – Asphalt Paving

- 1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
- ~~1.2.~~ *Reference 1.3 "Bid Package Scopes of Work", Line A "Scope Applicable to all bid package."*
- ~~2.3.~~ Applicable Specifications-*(listed items are complete unless noted otherwise)* :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 079200 Joint Sealant [As applicable]
 - e. 321216 Asphalt Paving
- ~~3.4.~~ Alternates: See section 012300 — Alternates
- ~~4.5.~~ Allowances:
 - a. NA

5-6. Scope of Work

- a. Provide all bituminous/asphalt paving at depths, courses, and locations per plans and specifications
- b. ~~Provide re-grading and repair of aggregate subbase prior asphalt installation. Aggregate base will be utilized for construction traffic and access~~ *Removed*
- c. Provide sweeping/cleaning asphalt between courses as required
- d. Provide verification of grades prior to installation of paving
- e. Provide patching of existing asphalt as needed where it abuts new materials. *Sawcut and remove as required.*
- f. This Contractor shall review the geotechnical report and comply with all requirements and recommendations
- g. Aggregate base provided by civil bid package.
- h. *Provide separate mobilization for binder course and surface course*
- i. *Provide all traffic control for this Scope of Work.*
- j. *Maintain erosion control measures provided by civil bid package while on-site*
- g-k. *This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"*

G. Bid Package 06 – Site Concrete

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications-*(listed items are complete unless noted otherwise)* :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 079200 Joint Sealant [As applicable]
 - e. *312000 Earth Moving [As Applicable]*
 - e-f. 321313 Concrete Paving
 - f-g. 321713 Parking Bumpers
 - g-h. 321723 Pavement Markings
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all new site concrete items including all forming, pouring, form removals, finishing, curing, admixtures, and concrete accessories as specified and necessary for a finished concrete system for the following items:
 - 1) Sidewalks
 - 2) Turndowns/Integral Curbs/*thickened edges*
 - 3) Curbs/Gutters
 - 4) Aprons
 - 5) Concrete Paving
 - 6) Dumpster Pads
 - 7) Paved Ditches/Flumes
 - 8) Provide monument sign foundations
 - 9) Provide all light poles bases including excavation and backfill
 - ~~9)10~~ *Provide card reader pedestal foundations per SE102*
 - b. Provide curb cuts
 - c. Provide specified concrete curing and finishes
 - d. Provide all steel reinforcement, wire fabric and accessories for concrete provided under this Scope of Work

- e. ~~Provide new all new exterior housekeeping pads including transformer pad, generator pad, LP tank pad, etc. housekeeping pads by MEPS~~
- f. Provide all joint sawing.
- g. Provide all expansion and isolation joints where shown, provide jointing at locations specified or as shown
- h. Provide all caulking of concrete joints ~~w~~here specified. Clean joints prior to caulking with methods specified.
- i. Provide doweling and epoxying into ~~existing~~ paving/buildings where shown
- j. ~~Set~~ Provide HDPE pipe bollards ~~provided by others~~. Include excavation, concrete base, concrete filling and backfill as shown
- k. Provide all detectable warning pads
- l. Provide dust control measures as specified, include all temporary water costs, water connection, metering, trucking, and fees as necessary.
- m. Load, truck, haul-off and legally dispose of all excess soil.
- n. Provide all dewatering as it pertains to this Scope of Work. *Comply with NOI standards, refer to RFI 45*
- o. Include coordination with Owner's Testing Representative
- p. Include street cleaning for debris and mud tracked on streets by this Contractor's operations *within 4 hours and daily*
- q. This Contractor shall review the geotechnical report and comply with all requirements and recommendations
- r. Provide all pavement markings on concrete paving. Provide pavement marking on asphalt paving if applicable.
- s. Provide wheel stops/parking bumpers
- t. Provide all ADA parking spot signage *and post mounted signage* including concrete filled bollards, posts, and signs. Include backfill and *excavation*.
- u. *Provide signage permit per C100 keynote 5.*
- v. *Maintain erosion control measures provided by civil bid package while on-site*
- w. *This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"*

H. **Bid Package 07 – Building Concrete**

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications *-(listed items are complete unless noted otherwise) :*
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 031000 Concrete Forming and Accessories
 - e. 032000 Concrete Reinforcing
 - f. 033000 Cast-in-Place Concrete
 - g. 072100 Thermal Insulation [As applicable]
 - h. 079200 Joint Sealant [As applicable]
 - i. 312000 Earth Moving [As Applicable]
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all new building concrete items including all forming, pouring, form removals, finishing, curing, sealers, admixtures, and concrete accessories as specified and necessary for a finished concrete system for the following items:

- 1) *Building Slabs*
 - 2) *Thickened slabs*
 - 3) *Slab on deck*
 - 4) *Concrete benches/bunks. Refer to A530/F7 for typical details*
 - 5) *Provide all above grade slab concrete walls such as the booking desk wall.*
 - ~~a-6) *All other cast-in place concrete*~~
- b. Provide all foundations including all forming, pouring, bracing, shoring, anchorage, form removals/stripping, finishing, curing, and concrete accessories as specified and necessary for a finished concrete system for the following items:
- ~~e-1) Continuous Footings~~
 - ~~e-2) Grade Beams~~
 - ~~e-3) Foundation walls~~
 - 4) Mat Slabs
 - ~~f-5) Provide monument sign base/foundation per S002/02. Install embed provided by steel supplier. Pour curbs/plinths after installation of precast panel and provide silicone joint sealant.~~
- c. *Install interior bollards with excavation, foundations, concrete filling, reinforcement and backfill supplied under general trades package.*
- d. *This Contractor shall provide the permanent aggregate base (4", 6", etc) as shown in details S501/10,11 over the backfilled aggregate that is installed by the civil contractor prior to slab installation. Refer to RFI 3.*
- e. *Provide back fill of all foundations, precast panels, and final grading after MEP installations.*
- f. *Provide sloping of floor drains and showers, floor drains, etc per Contract Documents*
- g. Provide all door stoops including footings, foundation walls, isolated slabs, and aggregate fill
- h. Provide fine grading of all subgrades as required. Include verification of grades. Immediately notify the construction manager of any improper grades before installing material. Earthwork contractor to leave grades at +/- 0.1". Provide final grading of subgrade materials as required. *This contractor shall note that subgrade will be use used for construction activities including aggregate pier, steel, and precast installation.*
- i. Provide all excavation, benching, shoring, backfill, compaction and other earthmoving required to install items provided under this Scope of Work. Building Pad will be turned over to this Contractor ~~"table topped"~~ at proposed subgrade by the earthwork contractor.
- j. All suitable soils (as determined by testing agency) are to be left onsite and placed as directed by CORE. All unsuitable spoils or excess spoils to be hauled offsite and disposed of properly.
- k. Provide all foundation insulation including all below grade insulation at foundations and located under slabs
- l. ~~Provide all slabs on grade including thickened slabs Duplicate item~~
- m. Provide vapor retarder for slab on grade. Include taping seams and penetrations as necessary
- n. Provide *all* recessed slabs for showers, drains, freezer, *padded rooms, etc* as required
- o. ~~Include a moisture vapor reducing admixture (MVRA) such as vapor lock, concure or barrier 1 in all interior slabs. MVRA is required to meet schedule and allow for flooring installation. Include all additional pours, preparation prior to pouring, and additional manpower as required to properly finish flooring. The MVRA shall be required to hold the flooring warranty Removed~~
- p. ~~Include flooring warranties, warranties to be provided by admixture manufacturer. Confirm admixture is compatible with specified flooring types. Include testing as required by admixture manufacture~~
- q. ~~Provide all slab on decks Duplicate~~
- r. Provide all formed form stops *including at storm shelter slab*

- s. ~~Provide all interior housekeeping pads. Include all surface prep, anchor bolts and bonding agents. Housekeeping pads by MEPPF unless noted otherwise~~
~~s-1) This bid package shall provide the concrete generator pad per S501/16~~
- t. This contractor shall set 1 nut per base plate to the required elevation
- u. This Contractor shall include patching, *grinding* and repairs of all "honeycombed" areas *and areas notes as "smooth/exposed in Contract Documents such as the bookkeeping desk wall, concrete benches, concrete bunks,* include all means and methods necessary to sufficiently consolidate concrete during concrete pours.
- v. Provide all openings and install sleeves provided by others in concrete work for other trades
- w. Provide all expansion, construction, isolation joints where shown, provide jointing at locations specified or as shown. Include all bond breakers and tooling of joints as required
- x. Provide all joint sawing.
- y. Provide all steel reinforcement, wire fabric and accessories for concrete provided under this Scope of Work
- z. Provide all *non-security* caulking of concrete joints were specified. Clean joints prior to caulking with methods specified.
- aa. Provide doweling and epoxying into slabs/foundations where shown
- bb. Provide all dewatering as it pertains to this Scope of Work. *Comply with NOI standards, refer to RFI 45*
- cc. Install all embedded concrete items furnished by others including anchor bolts, steel angles, steel plates, *embed plates,* etc
~~cc-1) Install recess cuff rings supplied by detention package. Refer to A530/F7~~
- dd. Grout base plates for steel columns
- ee. Provide asphaltic coating at columns prior to concrete pour
- ff. Provide all layout for this Scope of Work
- gg. ~~Provide all dewatering as it pertains to this Scope of Work removed duplicate item~~
- hh. Include street cleaning for debris and mud tracked on streets by this Contractor's operations *within 4 hours and daily*
- ii. Provide repair and maintenance of erosion control measures installed by others during these scopes of work
- jj. Regrade all ruts caused by construction activities prior to placement of ~~topsoil~~ *aggregate base.*
- kk. This Contractor shall review the geotechnical report and comply with all requirements and recommendations
- ll. Provide fiber mesh where shown for items provided under this Scope of Work
- mm. Provide and install rubbing of exposed finished concrete for smooth finish
- nn. "Bird Seed" aggregate shall not be permitted on site for structural backfill or other applications as this impedes site staging and logistics.
- oo. *Provide all rigid insulation form void materials and cardboard void forms*
- ~~nn-pp.~~ ***This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"***

I. Bid Package 08 – Precast

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications-~~(listed items are complete unless noted otherwise)~~ :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 034500 Precast Architectural Concrete
 - d. 072100 Thermal Insulation [As applicable]
 - e. 079200 Joint Sealant [As applicable]
3. Alternates: See section 012300 — Alternates

4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all insulated and un-insulated precast wall panels per plans and specifications.
a-1) Provide monument precast sign per S002/02 including any temporary bracing necessary and embeds. Include coordination building concrete bid package.
 - b. Precaster's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Engineer's determination shall be final and adjustment to the contract as a result of engineer's determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
 - c. Includes all panel reinforcement, insulation, prestressing tendons, and concrete materials required for complete fabrication.
 - d. Include all labor, rigging, hoisting, flagging, tag lines, spotters, equipment, and loose hardware as necessary for complete system erection.
 - e. Include delivery, hauling permits, escorts, and freight charges as necessary for panel delivery.
 - f. Include street/sidewalk permits as necessary to this contractor's work. Precaster is responsible for any permits needed to deliver their product to the site.
 - g. Include layout, field measure, and pre-installation survey for this contractor's work. Benchmarks/primary control points to be provided by others.
 - h. Include coordination of all openings.
 - i. Includes *coordination of* window openings, door openings, mechanical, electrical, plumbing, fire protection, stairs, balconies, bar joists, and all structural elements.
i-1) Slope all sills at openings per contract documents for positive drainage.
 - j. Include block-outs/sleeves for all openings 10"x10' or larger
 - k. Include coordination of openings smaller than 10"x10" which are to be core drilled by the relevant trade
 - l. ~~Sleeves and block-outs to be provided by this contractor for the openings. Removed duplicate item~~
 - m. Include shop drawings coordination with the Construction Manager and mechanical, electrical, plumbing, fire protection, steel and concrete contractors for all openings, block-outs, sleeve, cast-in items, etc. in conjunction with the project bidding and construction schedule. Refer to 00 3113a – Schedule. Such coordination cannot start until after the other bid packages are awarded. Schedule precast shop drawings and fabrication accordingly.
 - n. Include treated wood blocking cast into panels as necessary for openings.
 - o. Include coordination of lifting and hanging devices at ~~hollow core planks precast assemblies~~ as well as hanger tabs per specification.
 - p. Include coordination of installation for electrical conduit, boxes, fixtures, and devices that are furnished and installed by others and intended to be cast into precast panels at the precast supplier's plant. Include administrative time as necessary to facilitate the coordination of all electrical items to be cast into panels.
 - q. Include furnish and installation of all bearing plates and welding plates necessary for connections to structure.
~~r. Include furnish and installation of all plates embedded in precast unless noted otherwise.~~
~~1) Cast in all embedded items provided by detention door supplier~~
 - r. ~~Include furnish only of all bearing plates and weld plates cast into concrete, masonry or other assemblies (to be installed/field welded by others) necessary for connections to structure. Provide all embedded items that are located in precast assemblies including:~~
~~1) bearing plates~~
~~2) weld plates~~

- 3) *opening closure plates such as those for coiling/section overhead doors, hollow metal door frames, hollow metal borrow lites, detention windows, detention doors, etc*
- 4) *connection plates for mezzanines, stairs, guardrails, etc*
- 5) *Embeds for mounting accessories, fixtures, equipment etc other than those mounted by steel embed blocks. Steel embed blocks on A531/C5 are supplied by detention package and installed by masonry bid package.*
- s. *Include installation of all items embedded into precast assemblies that are supplied by others unless noted otherwise including items/accessories supplied by detention supplier. See item P above for electrical.*
- t. Includes all welding and connections made for a complete installation.
- u. Include welding of items cast into precast panels to other items cast into precast panels unless noted otherwise.
- v. Include welding of all items furnished by this contractor to other items furnished by this contractor unless noted otherwise.
- w. Include all structural inserts, headers, bolts, weld plates, angles, dowels, keyways, and korolath as shown on plans and specifications.
- x. Include additional rental for temporary bracing and deadmen as needed. Install deadmen as required for panel bracing. Include removal of deadmen if required. Refer to project schedule. *Brace all panels to exterior side of building where possible.*
- ✕.1) *Refer to schedule (00 31 13a) included with addendum 1 for sequencing and activity durations. Temporary bracing is required until permanent connections/support are completed including completion of erection structural steel.*
- y. Include dewatering as required for this Scope of Work. *Comply with NOI standards, refer to RFI 45*
- z. Provide coatings/primers/material per specification.
- aa. Include touch up paint/galvanizing coat for items installed by this contractor caused by this contractor's work.
- bb. Include all accent bands, reveal patterns, chamfers, *shop applied panel finishes*, and edging as indicated.
- cc. Trucks cannot be staged on-site due to site constraints, schedule deliveries accordingly.
- dd. Include any temporary shoring, temporary bracing, and temporary connections as required as well as any delegated engineering required. Include removal of temporary shoring, bracing, and connections as required.
- ee. Include patching of panels from picking eyes, hoisting methods, etc.
- ff. Include panel patching at all exposed locations for a complete finish. *Provide smoothing, grinding, patching, etc for all exposed precast walls that receive paint/finish for a finished product.*
- gg. ~~Include all caulking and backer rod associated with precast panels. Removed~~
- hh. ~~Include furnish and installation of grouting beneath wall panels, at hollowcore keyways and cores in hollowcore planks. NA~~
- ii. Include notched precast beams and pocket joints as indicated.
- jj. Include additional mobilization to set "leave out panels" noted on site logistics plan.
- kk. Include all submittals, mix designs, shop drawings, samples, and delegated design per the Contract Documents. Provide engineering and shop drawings signed and sealed by a licensed structural engineer in the State of Illinois.
kk.1) Provide design for future loading and addition per Contract Requirements
- ll. Include embed layout drawings to be submitted one week from the date of approved shop drawings.
- mm. Include spot cleaning of concrete panels as specified. Remove all mud and dirt from panels caused from this contractor's delivery and installation process.
- nn. Include supply, installation, and removal of crane pads if required for this contractor's work.
- oo. Include removal of any unused materials furnished by this contractor.

- pp. Include mockups *and samples* as specified. Include removal of mockups from the site once directed by the Construction Manager.
- qq. Coordination for testing as outlined in any applicable specifications.
- rr. Precast supplier/erector shall hold PCI certification levels as indicated on drawings or within any applicable specifications.
- ss. Include daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades Package
- tt. *Access into the footprint of the building will be allowed to erect the interior precast panels. Access points are shown on the site logistics plan. This contractor will be responsible for providing, installing, and removing any additional crane pads.*
- uu. *Provide all non-security precast caulking, back rod and all foam in place insulation inside precast assemblies. At locations where one side of panel receives pick proof caulking this Contractor shall provide the foam-in place insulation.*
- ss.vv. *This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"*

J. Bid Package 09 – Masonry

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications-*(listed items are complete unless noted otherwise)* :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 042223 Architectural Concrete Unit Masonry
 - d. 042900 Engineered Unit Masonry
 - e. 072100 Thermal Insulation [As applicable]
 - f. *078413 Penetration Firestopping [As applicable]*
 - e-g. *078443 Joint Firestopping [As applicable]*
 - f-h. 079200 Joint Sealant [As applicable]
 - ~~g. 083463 Detention Doors and Frames [As applicable]~~
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all concrete block and all items necessary for a complete masonry system per the Contract Documents.
 - b. Provide concrete masonry (CMU) walls including interior partitions, *structural masonry, and masonry foundations* where shown.
 - ~~b-1)~~ *Provide all decorative and burnished face masonry*
 - c. Provide all bullnose block and soaps per the Contract Documents
 - d. Provide all reinforcing steel, ladder reinforcement, and grout in masonry walls, bond beams, and masonry lintels.
 - e. Provide all masonry accessories including, ties/anchors, clips, fasteners, and all miscellaneous accessories necessary for complete masonry systems
 - e-1) *Provide all mineral wool/sound insulation at head of masonry walls.*
 - f. Provide all masonry and stone mortaring, provide mix designs per specifications. Mortar to be non-staining
 - g. Provide installation of all steel embeds, *bearing plates*, anchor bolts, fasteners, or other items embedded in masonry wall grout for connections to other assemblies. Embedded items furnished by others unless noted otherwise
 - 1) *Install all top of CMU wall steel channels/kickers furnished by general trades bid package, refer to G130 for typical details.*

- 2) *Install all top of CMU wall embed and bent plates for furnished by general trades bid package. Refer to G130 for typical details.*
- ~~g-3) *Install steel plates and anchor bars per A531/E4 including any required welding.*~~
- h. Provide grouting of beam pockets in masonry walls
- i. Provide chemical clean and washdown of masonry walls as specified.
- ~~j. *Provide continuous sealant and backer rod around wall sleeves penetrating masonry items*~~
- k. Provide neoprene bearing pads where structural components bear on masonry walls.
- ~~l. *Provide all masonry expansion joints as applicable. Caulking provided by general trades*~~
- m. ~~*Install all detention and non-detention hollow metal frames at CMU openings. This contractor shall be responsible for installing embeds, anchors, grouting, temp shoring, checking of level, checking to confirm frames are square, and to assure all MEP rough-ins are maintained during the installation of the walls around all hollow metal detention and non-detention frames located in masonry walls.*~~
- n. Provide grouting of *detention and non-detention* hollow metal frames *including where frames are located in/abut to precast such as A850/F4*. Do not use anti-freezing agents in grout of door frames. Provide all insulation in door frames prior to grouting these frames to allow for installation of door hardware (i.e. hinges, closers, etc.)
- ~~o. *Provide asphaltic coating on hollow metal frames set by others in masonry walls. Provide bituminous coatings for grouted hollow metal frames and steel embed blocks*~~
- p. Provide the installation of lintels with a piece weight under 200 lbs. supplied by general trades.
- q. Provide field and office coordination with the Steel Fabricator and Erector, Building Concrete Contractor, Precast Supplier, Glazer, metal stud framer, and all other relevant trades.
- r. Provide temporary shoring and bracing of masonry walls as required to install items Provided in this Scope of Work
- s. Provide all layout and field measurement necessary to complete this Scope of Work.
- t. Provide coordination and scheduling of testing required for this Scope of Work with Owner's Testing and Inspection Agency
- u. For debris tracked on streets by this Contractor's operations, the contractor shall provide all street sweeping as required for maintaining clean streets and adjacent drives *daily and* within 4 hours ~~and provide~~ *provide* flagman as necessary.
- v. Provide daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the BP-04 General Trades
- w. Provide clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
- x. Provide all portions of specification sections 07 21 00 Thermal Insulation, 07 84 13 Penetration Fireproofing, and 07 92 00 Joint Sealants as they relate to this Scope of Work.
- y. Provide masonry mockup
- z. This Contractor shall bring temporary water onsite for their operations
- aa. Include all stenciling and identification of rated assemblies provided under this Scope of Work*
- bb. Provide all firestop and non-security caulking/putty for items provided under this scope of work. Provide all assemblies as detailed and per UL designation*
- 1) Fire and non-fire caulked expansion joints (A500/H2 typical)*
 - 2) Provide all mineral wool safing/deck infill*
 - 3) Provide all light gauge closure plates for head of wall assemblies provided under this scope of work.*
 - 4) Provide all non-security caulking/fill material for head of wall, base of wall and where this assembly abuts dissimilar assemblies such as precast, structural steel, masonry.*
- cc. Install and provide all welding of burglar bars furnished by detention package at all chases and HVAC openings including the following:*

- 1) Pipe chase bars at north and south chase of the mezzanine (A120/A10)
- 2) All interior wall, exterior wall, roof, floor, and duct opening greater than 6" within the secure perimeter area per A531/E4 and A100 general security note 6.

~~add.~~ ***This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"***

K. Bid Package 10 – Roofing

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications-*(listed items are complete unless noted otherwise)* :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. 072700 Air Barriers – Carlisle
 - e. 074213.16 Metal Plate Wall Panels – Dri-Design
 - f. 075323 EPDM Thermoset Single-Ply Roofing-Carlisle
 - g. 076200 Sheet Metal Flashing and Trim
 - h. 077100 Roof Specialties
 - i. 077200 Roof Accessories
 - j. 079200 Joint Sealant [As applicable]
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Roofing
 - 1) Provide complete membrane roofing system
 - 2) Provide adhered EPDM roof membrane as specified
 - 3) Provide cover board including gypsum board cover boards
 - 4) Provide roof insulation cant strips, insulation adhesive, crickets, taping, sealants for complete roof insulation system. Construct roof to achieve proper drainage and slopes as indicated by the Contract Documents. Include tapered insulation as required
 - 5) Provide all rigid insulation at the *top*/back of roof parapets.
 - 6) Provide all flashings, counter flashings, termination bars, drip edges, detailing, sealants, and other all items required for a complete watertight roof system. Provide flashing membrane up and over parapet walls.

~~6)a)~~ *Provide all saw cutting of reglets into precast wall and void sealant per A431/E10 typical*
 - 7) Provide all flash-in and patch of roofing material at/around roof penetrations/openings as well as tie-in of these openings into the rest of the roof assembly for a complete and weathertight construction.
 - 8) Provide all prefinished sheet metal *and stainless-steel* copings/caps, scuppers, conductor heads, downspouts, fascias, soffits, and drip edges

~~8)a)~~ *Connect to cast-iron downspout boots provide by the civil bid package.*
 - 9) Provide walk pads/pavers and *all* splash blocks
 - 10) Provide roof hatch(s) with guard rail system
 - 11) Include prefabricated roof curbs for all items supplied by this ~~Scope of Work~~ *this bid package.*
 - 12) Provide all anchors and fasteners necessary to complete this Scope of Work
 - 13) Provide specified manufacturer's and workmanship warranties.
 - 14) Provide temporary roofing measures required to maintain a fully watertight roof, this includes penetration/openings for skylights, roof drains, plumbing vent piping,

- mechanical unit curb openings, and other items that are shown on architectural, structural, and MEPFP plans. All roofs shall be weathertight at the end of each working day
- 15) All items supplied under this Scope of Work are to be pre-finished or finished as noted in by Contract Documents. All colors to be selected from manufacturer's full range unless noted otherwise
 - 16) Include all hoisting, unloading, and transport necessary to install items provided under this Scope of Work
 - 17) Include field testing per manufacturers' requirements and Contract Documents. This includes a water test at completion of roofing prior to turnover
 - 18) Include coordination and scheduling with roofing manufacturer for field inspections
 - 19) Include all permits and licenses required for this Scope of Work
 - 20) ~~Provide all dumpsters and daily clean-up for this Scope of Work. This Contractor shall not use the general trades dumpster. Removed~~
 - 21) Provide all safety/fall protection on the roof per OSHA requirements/standards.
- b. Metal Wall Panels
- 1) Provide complete metal wall panel system
 - 2) Provide all trims, j-channels, starters, flashings, gaskets, counter flashings, z-closures, jambs, *cleats*, and sealants as necessary for a watertight system
2)a) Provide J-channels and transition flashing where metal panels abut precast, refer to RFI 144
 - 3) Provide all metal soffit panels
 - 4) Provide all z-gurts and furring behind metal panels
 - 5) Provide all rigid insulation behind metal panels
 - 6) Provide expansion joints were shown.
 - 7) Provide all accessories, clips, fasteners, anchors, start track, shims, etc. for a complete installation
 - 8) Provide all joint sealants, butle tapes, urethane sealants, etc. as it pertains to your scope of work. Includes caulking between panels/materials and adjacent materials as required
 - 9) Ensure all material is installed without damage. Damaged material will be sent back for repair or replacement
 - 10) Ensure all metal panels are installed level and plumb
 - 11) All materials are to be prefinished
 - 12) Includes all required Mockups of each system to be installed for water-tightness test. Refer to 07 42 13 part 1.7
 - 13) Includes all coordination with other scopes to assure water-tight details form one scope to another
 - 14) *Pre-Install meeting to be scheduled by installer prior to start of work with manufacturer rep*
 - 15) ~~All materials are to be prefinished~~ *Removed duplicate item*
 - 16) Provide all survey and layout as necessary to complete the bid package Scope of Work.
 - 17) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
 - 18) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
 - 19) Provide all scaffolding, temporary shoring, guying, supports, bracing, and additional means and methods necessary to complete the bid package Scope of Work
 - 20) Include all delegated design as specified for your Scope of Work. This includes all engineering (by a licensed engineer) as well as the cost of design. Refer to 074213 part 1.4
 - ~~21) Provide field touch up paint~~

- c. Air Barrier
- 1) Provide all self-adhered membrane air barrier
 - 2) Provide all detail coats, finish coats, drainage mats, foam board, sealant cants, reinforcing fabric, and accessories as required for complete installation.
 - 3) Provide all detailing of ~~footings~~ *top of foundations* and outside corners.
 - 4) Provide all coats as required to obtain a seamless membrane with the specified dry film thickness.
 - 5) Provide all preparation of gypsum board and plywood sheathing as necessary for air barrier installation including tapping of joints, caulking, and screw heads
 - 6) Wrap air and moisture barrier around all window bucks as detailed
 - 7) All adhesives, bonding agents, joint sealants, etc. are included for a complete installation.
 - 8) Provide all joint and penetration flashing tape as required. Including at metal wall anchors
 - 9) Provide all required fasteners per manufacturer's requirements
 - 10) Provide all mock-ups and water testing as required.
 - 11) Provide all lifts required for this scope of work.
 - 12) Pre-installation meeting to be scheduled by installer prior to work the manufacturer rep
 - 13) *A water test is required after installation to confirm watertightness of assembly regardless of if test is noted in specification or not. This is required for quality control. Test shall be as outlined recommended by manufacturer/standard writer.*
- d. *Scope breakouts above are provided for organization purposes only. Bidders for this package shall provide a complete bid for all items listed under this bid package Scope of Work.*
- ~~12)e.~~ *This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"*

L. Bid Package 11 – Detention Equipment

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications *-(listed items are complete unless noted otherwise) :*
 - a. Division 00 Complete
 - b. Division 01 Complete *including 013513.16 Special Project Procedures for Detention Facilities*
 - ~~b.c.~~ *042223 Architectural Concrete Unit Masonry[as applicable]*
 - ~~c.d.~~ 055963 Detention Enclosures *[as applicable]*
 - ~~d.e.~~ 072100 Thermal Insulation *[As applicable]*
 - f. 079200 Joint Sealant *[As applicable]*
 - ~~e.g.~~ *08 3113.53 – Security Access Doors and Frames*
 - h. 083463 Detention Doors and Frames *[As applicable]*
 - ~~f.i.~~ *084413 Aluminum Glazed Curtain Wall Systems [As applicable]*
 - ~~g.j.~~ 085113 Security Windows
 - ~~h.k.~~ 086510 Exterior Detention Windows
 - ~~i.l.~~ 087163 Detention Door Hardware
 - ~~j.m.~~ 088853 Security Glazing
 - ~~k.n.~~ 095753 Security Ceiling Assemblies
 - ~~l.o.~~ 102813.63 Detention accessories
 - ~~m.p.~~ 111916 Detention Gun Lockers
 - ~~n.q.~~ 111990 Detention Cell padding
 - ~~o.r.~~ 125500 Detention Furniture
 - ~~p.s.~~ 280500 Common Work Results *[as applicable]*
 - ~~q.t.~~ 280510 Cabinets and Enclosures for Electronic Security

- ~~r.u.~~ 281300 Access Control System
 - ~~s.v.~~ 282300 IP Video Communication System
 - ~~t.w.~~ 282350 Electronic Security Systems Network Integration
 - ~~u.x.~~ 283105 Auxiliary Control System
 - ~~v.y.~~ ~~284600 Fire Detection and Alarm~~
 - ~~w.z.~~ 284619 Security Automation System
 - ~~x.aa.~~ 284620 Video Graphic User Interface System
 - ~~y.bb.~~ 285123 IP Audio Communication System
3. Alternates: See section 012300 — Alternates
 4. Allowances:
 - a. NA
 5. Scope of Work
 - a. Provide all detention equipment, furnishings, and accessories
 - 1) *Provide items on detention equipment schedule per sheet A130*
 - ~~a.a)~~ *Provide stainless steel drawer and cabinet at package pass per A530/F5 and equipment schedule item E020 on A600*
 - b. Provide all detention glass and glazing. ~~Provide all security glazing in commercial openings if applicable.~~
 - c. Provide all detention bar grating and woven mesh including at ~~mezzanine walkways and skylights~~
 - d. Provide ~~all~~ detention enclosures *per 05 5963 as follows*
 - 1) *All burglar bars shall be furnished under this bid package for installation by other bid packages including for skylights, chases, and HVAC openings.*
 - 2) *Provide woven rod mesh assemblies (at rec yard roll up door)*
 - ~~3)~~ *Security Grilles shall be provided by HVAC bid package*
 - 4) *Perforated Plate security vents shall be provided by HVAC bid package*
 - 5) *Perforated plate security vents with backup plate shall be provided by HVAC bid package*
 - 6) *Tool resisting steel, perforated plate security vents shall be provided by HVAC bid package*
 - e. Provide all detention windows
 - ~~1)~~ *Provide stainless steel talk through frames with bullet resistant glazing and paper pass cutouts. Refer to details H4 and G5 on A600 and A4 on A601 for typical conditions*
 - ~~e.f.~~ Provide all detention wall systems
 - ~~f.g.~~ Provide all cell safety padding
 - h. Provide all security electronics, including paging system, CCTV, door controls, etc *including*
 - 1) *Provide cabinets and enclosures for electronic security including:*
 - a) *Provide free standing racks and accessories*
 - b) *Provide NEMA rated wall mounted equipment enclosures*
 - 2) *Provide access control system including:*
 - a) *Access system controllers and power supplies*
 - b) *Access system workstation and monitor*
 - c) *Access system software*
 - d) *HID multiclass proximity card readers*
 - e) *Single sided badge printer, camera, and tripod*
 - f) *HID proximity cards*
 - 3) *Provide IP video communication system including:*
 - a) *IP detention grade cameras*
 - b) *Surveillance workstation computers*
 - c) *Monitors*
 - d) *Video management system software, application servers and storage arrays at specified resolution*

- e) *Power supplies*
- f) *Surge protection*
- g) *Microphones*
- 4) *Provide electronic security systems network integration including:*
 - a) *Layout of network scheme*
 - b) *Linking requirements*
- 5) *Provide auxiliary control system including:*
 - a) *Cell and dayroom lighting relays*
 - b) *Receptacle control relays*
 - c) *Water Control relays*
 - d) *Relay control cabinets wired and completely tested*
- 6) *Provide security automation system including:*
 - a) *Programmable Logic Controllers/door relay racks or cabinets wired and completely tested*
 - b) *PLC software*
 - c) *PLC programming*
 - d) *Network switching equipment.*
 - e) *Wall and desk mounted duress stations*
 - f) *Door release push buttons*
 - g) *Uninterruptible Power Supplies*
 - h) *Spares as required.*
- 7) *Provide video graphic user interfaces including:*
 - a) *Touch Screen operator stations including CPU, monitor and misc. equipment*
 - b) *programming software and Servers*
 - c) *Touch screen system programming as specified*
 - d) *Security management system including CPU, monitor and report printer*
 - e) *security management system software*
 - f) *Security management system programming*
 - g) *Software review*
- 8) *Provide IP audio communication system including:*
 - a) *Audio racks wired and completely tested*
 - b) *Intercom master stations*
 - c) *Paging speakers, back boxes, and security grills*
 - d) *Paging Horns*
 - e) *Intercom stations*
 - f) *Call buttons*
 - g) *Intercom/camera pedestal*
- 9) *Provide all specialty back boxes for this Scope of Work including equipment racks, cabinets, camera housings and speaker back boxes*
- 10) *Include factory testing as specified/required by manufacturer*
- ~~9~~-11) *Provide individual UPS power for all security electronic control station and head end equipment*
- ~~h~~.i. *Provide all detention gun lockers*
- ~~i~~.j. *Provide all control stations*
- k. *Provide (furnish, install, deliver, etc) all detention doors and frames including where frames are abut masonry and precast. Refer to schedule on A801*
 - 1) *Provide all stainless-steel frames such as frame type SS on A801/F10 including all welding and grinding of welds.*
 - ~~j~~-2) *Provide all detention frames shown on A801/F10 including metal glazing stops with tamper resistant screws and glazing tape at control room windows*
- ~~k~~.l. *Provide all detention door hardware*

- ~~l.m.~~ ~~Supply and deliver all precast embeds to pre-caster~~ *Supply and deliver all items that are to be cast-in/grouted into precast, masonry or cast in-place concrete to that respective bid package. Include coordination.*
- ~~m.n.~~ Provide security access doors/*panels* at detention areas.
- ~~n.~~ ~~Furnish and deliver all detention door frames and borrow lites for installation by Masonry bid package-~~
- ~~o.~~ ~~Install all detention frames where frames abut precast.~~
- p. Weld and grind smooth all field welds for items installed under this scope of work.
- q. This Contractor shall submit all required items per 01 3513.16 part 1.4. Inability to meet any requirements of this specification shall be ground for disqualification of the submitted bid.
- r. Provide all tamper proof fasteners
- s. All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- t. All bid packages are responsible for their own daily clean-up to the dumpsters supplied
- u. Provide all survey and layout as necessary to complete the bid package Scope of Work.
- v. Provide all field measuring necessary for fabrication, installation, and as-built drawings as necessary to complete the bid package Scope of Work
- w. Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- x. Provide testing as specified for your Scope of Work
- y. Provide scheduling and coordination of any Owner third party testing agencies for all specified testing by Others pertaining to your Scope of Work
- z. Provide all training and owner demonstration as required as specified for your Scope of Work
- aa. Provide all maintenance stock/extra materials as specified for your Scope of Work
- bb. Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- cc.* All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- dd.* *Provide all security-plank security ceiling systems including perimeter support c-channel molding pre-finished with expansion anchors*
- ee.* *Provide all bullet proof/resistant glazing and bullet films including security glazing SG-3B with associated curtain wall frame at road patrol. Refer to A300/H10, A430/E7, and A431/G8/E8 for typical details*
- ff.* *Provide all aluminum voice/talk-thru and frame security glazing including associated stainless-steel sills. Refer to A530/F2 for typical details.*
- gg.* *Provide curtain wall stainless steel plate for ballistic properties at ballistically rated aluminum frames per A430 and A431/G8 typical details*
- hh.* *Provide detention locking gate hardware for the gate within the outdoor detention enclosure*
- ii.* *Provide security screen at overhead doors per A801/C12*
- jj.* *Provide all non-foodservice/food grade stainless-steel countertops including hat channels, backsplashes, sound deadening material, refer to A700 D2 for detail.*
- kk.* *Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3*
- ll.* *This bid package may submit requested modifications to the sample subcontract prior to contract execution, the Owner and reserves all rights to reject this bid if terms are not mutually agreeable by the Construction Manager and Owner.*

~~ee~~.mm. *This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”*

M. Bid Package 12 – Fire Protection

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications ~~(listed items are complete unless noted otherwise)~~ :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. *078413 Penetration Firestopping [As applicable]*
 - ~~e~~.e. *078443 Joint Firestopping [As applicable]*
 - ~~d~~.f. 079200 Joint Sealant [As applicable]
 - ~~e~~.g. 083100 Access Door and Panels [As applicable]
 - ~~f~~.h. 200548 Seismic Controls for MEPFTR Systems
 - ~~g~~.i. All division 21 specifications complete
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Include new sprinkler system complete per Contract Documents. Systems shall meet all applicable codes. The system shall start at the last control valve on the backflow preventer.
 - b. Include all specified flow tests and hydraulic calculations.
 - c. Include engineered fire sprinkler drawings.
 - d. All new sprinkler heads to be centered in acoustical ceiling tiles or spaces shall be installed as specified. Include concealed heads as required where exposed heads will conflict with cabinets and other adjacent finishes.
 - 1) *Provide institutional heads were noted.*
 - 2) *Provide sprinkler guards/protection where noted*
 - ~~d~~.3) *Provide additional heads as required to provide complete coverage for all stairs, overhead doors, coiling doors, etc.*
 - e. Include fire department connection and piping
 - f. Include system risers with control valves, main drains, gauges, thrust blocks, flow switches, and all accessories necessary for a complete system.
 - g. Include testing, certification, and drain of system. *Provide leak testing as specified.*
 - h. Piping shall not be run above electrical or IT equipment at mechanical rooms and IT rooms
 - i. Include installation of all electronic flow and tamper switches. Wiring and final connection by Electrical Contractor.
 - j. Include coordinating and scheduling with all local utilities and authorities having jurisdiction. Include all trade permit and inspection fees.
 - k. Include coordination with the Owner’s Commissioning Agent.
 - l. Include core drilling of all openings smaller than 10”x10” in ~~hollow core planks precast assemblies~~ for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
 - m. Include cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
 - n. Provide all labeling and identification required for this scope of work required.
 - o. Provide all layout of roof penetrations to be cut in by steel bid package
 - p. Include access doors/panels as required to access items installed under this Scope of Work.
 - q. Provide coordination drawings and include all required coordination with other MEPPF trades.

- r. Include daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades bid package.
- s. Include clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
- t. *Provider sprinkler coverage per G000 general note 12*
- u. *Provide all firestop, caulking, puddy, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation*
- v. *Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3*
- w. *Provide all housekeeping pads for items provided by this Bid Package. Include all surface prep, anchor bolts and bonding agents.*
- ~~s-x~~. *This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"*

N. Bid Package 13 – Plumbing

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications-*(listed items are complete unless noted otherwise)* :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. *078413 Penetration Firestopping [As applicable]*
 - ~~e~~. *078443 Joint Firestopping [As applicable]*
 - ~~d~~.f. 079200 Joint Sealant [As applicable]
 - ~~e~~.g. 083100 Access Door and Panels [As applicable]
 - ~~f~~.h. 200548 Seismic Controls for MEPFTR Systems
 - ~~g~~.i. 312000 Earth Moving [As Applicable]
 - ~~h~~.j. All division 22 specifications complete
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all interior plumbing per Contract Documents.
 - b. Provide all excavation, backfill, compaction, and spoil removal for this Scope of Work. Include import of backfill material as required.
 - c. Provide dewatering for this Scope of Work *Comply with NOI standards, refer to RFI 45*
 - d. All ~~plumbing-water~~ work shall begin the blind flange stubbed up inside the building by the utility contractor.
 - e. Provide, install, flush, test, and certify all backflow preventers including the BFP for the fire sprinkler system.
 - f. Provide new sanitary, drain, and vent system including, support valves, and all miscellaneous accessories starting from site utility cap-off located 5' outside the building footprint for a complete system. Provide final connection to site utilities.
§.1) Civil bid package to provide grinder pump and manhole.
 - g. Provide building storm sewer system and all miscellaneous accessories starting from site utility cap-off located 5' outside the building footprint for a complete system. Provide final connection to site utilities.
 - h. Provide all gas piping starting at gas meter *(detail on P401/7 is not updated)*. *Provide all regulators, roof supports, hangers, etc.*

- i. Provide all plumbing fixtures, valves, solenoid valves, pumps, sump pumps, and plumbing accessories per Contract Documents.
- j. Provide blocking at plumbing fixtures
- k. Provide all insulation required for this Scope of Work.
- l. Provide condensate piping for mini-splits *and other HVAC equipment if required.*
- m. Provide coordinating and scheduling with all local utilities and authorities having jurisdiction. Provide all trade permit and inspection fees.
- n. Provide all start-up and Owner Training per Contract Documents
- o. Provide coordination with the Owner’s Commissioning Agent.
- p. Provide all plumbing hookups and connections for equipment provided by others.
p-1) Provide gas to commercial dryer
- q. Provide core drilling of all openings smaller than 10”x10” in ~~hollow core planks precast assemblies~~ for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
- r. Provide cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
- s. Provide access doors/panels as required to access items installed under this Scope of Work.
- t. Provide coordination drawings and include all required coordination with other MEPFP trades.
- u. Provide all layout of roof penetrations to be cut in by general trades
- v. Provide daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades package.
- w. Provide clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
- x. All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- y. Provide all labeling and identification required for this scope of work required.
- z. Provide all survey, staking and layout as necessary to complete the bid package Scope of Work.
- aa. Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- bb. Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- cc. Provide testing as specified for your Scope of Work
- dd. Provide all training and owner demonstration as required as specified for your Scope of Work
- ee. Include coordination and scheduling of all tier subcontractors under this Scope of Work
- ff. *Provide water management system per 22 4600*
- gg. *Provide grease interceptor as shown. Provide exterior grease waste and vent piping to interceptor.*
- hh. *Provide sand and oil separator as shown*
- ii. *Provide exterior “soiled” piping from building to interceptors.*
- jj. *Provide all heat trace for items under this Scope of Work per contract documents.*
- kk. *Provide and set elevation of all floor drains, trench drains, shower pans, etc. Coordinate with flooring for elevations.*
- ll. *Provide onyx shower pans*
- mm. *Provide all drain pans as required.*
- nn. *Provide roof hydrant as shown.*
- oo. *Provide all motorized ball valves, pneumatic controls, and connections to security system*
- pp. *Provide all flush valves with “FDD”, electric controllers, actuator, transformer wiring, tubing, SOV, electronic controlled fixtures, PIEZO electric push buttons for a complete system.*

- qq. *Provide all firestop, caulking, puddy, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation*
- rr. *Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3*
- ss. *Provide all housekeeping pads for items provided by this Bid Package. Include all surface prep, anchor bolts and bonding agents.*
- ee. *This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"*

O. Bid Package 14 – HVAC

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications-*(listed items are complete unless noted otherwise)* :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - ~~b.c.~~ *055963 Detention Enclosures [as applicable]*
 - d. 072100 Thermal Insulation [As applicable]
 - e. *078413 Penetration Firestopping [As applicable]*
 - ~~e.f.~~ *078443 Joint Firestopping [As applicable]*
 - ~~d.g.~~ 079200 Joint Sealant [As applicable]
 - ~~e.h.~~ 083100 Access Door and Panels [As applicable]
 - ~~f.i.~~ 200548 Seismic Controls for MEPFTR Systems
 - ~~g.j.~~ All division 23 specifications complete
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all heating, ventilating, air conditioning, hydronics, and temperature control work per the Contract Documents.
 - b. *Provide* HVAC system and ductwork cleaning per Contract Documents.
 - c. Include rods, plates, washers, HSS/steel support, and any unistrut support for the mechanical units supports.
 - d. Provide all roof curbs and rails as required for ~~you~~*this* scope of work.
 - e. Provide all louvers including "architectural" louvers. Provide all flashings, fasteners, and sealants at louver openings.
 - f. Provide all start-up, Owner training, and maintenance service per Contract Documents.
 - g. Provide all manufacturer field services per Contract Documents
 - h. Provide all labeling and identification required for this scope of work required.
 - i. Provide all controls and programming, rough-in and wiring, certified testing, and balancing as required for a fully functioning system. Include temporary controls as needed to control units started prior to permanent network/data.
 - 1) *Provide vandal resistant thermostat covers as shown*
 - ~~2~~2) *Provide connection of BAS system to water management system if shown/specified*
 - j. Provide HVAC water treatment, including system flush and measuring as required by the Contract Documents. Include all material required for the system flush. Any alternate methods shall be approved by the design team via a Substitution Request and all associated costs (i.e. water softener, salt, etc.) shall be included.
 - k. Provide extended warranties as required to meet Specifications in conjunction with the Project Schedule. Warranties shall start on the day the certificate of Substantial Completion is executed. Units to be started prior to Substantial Completion in accordance with the project schedule for startup, test and balance, and commissioning.

- l. Provide early equipment start-up as required per the Project Schedule to provide required cooling, heating, temperature, humidity control, and space acclimation. ~~for new gym floor installation.~~
- m. Provide all construction filters for equipment provided under this Scope of Work. Filters are to be replaced immediately prior to occupancy. Furnish, install, and maintain temporary filter media over all returns pulling air during construction.
- n. Provide all labor, rigging, hoisting, flagging, tag lines, spotters, equipment, and loose hardware as necessary for complete system installation.
- o. Provide coordinating and scheduling with all local utilities and authorities having jurisdiction. Include all trade permit and inspection fees.
- p. Provide coordination with the Owner's Commissioning Agent.
- q. Provide all hookups and connections for equipment provided by others. Include core drilling of all openings smaller than 10"x10" in ~~hollow core planks~~ *precast assemblies* for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
- r. Provide all layout of roof penetrations to be cut in by steel bid package
- s. Provide cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
- t. Provide access doors/panels as required to access items installed under this Scope of Work.
- u. Provide coordination drawings and include all required coordination with other MEPPF trades.
- v. Provide daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the BP-04 General Trades
- w. Include clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
- x. *Provide vehicle exhaust system including piping, controls, fittings, alarms, etc for a fully functioning system*
- y. *All louvers, dampers and installations of items under this scope of work shall comply with storm shelter requirements for items located in storm shelter.*
- z. *Provide fire/smoke dampers. Provide all backends/adapters as necessary to tie-in dampers to VESDA system if shown/specified.*
- aa. *Provide all water heater flues and intakes per M101.A plan note M17*
- bb. *Provide all duct insulation and insulation for this Scope of Work*
- cc. *This bid package shall weld all ductwork to adjacent steel if required. Provide final ductwork connection to bar frames as noted. Provide all welding of items installed under this scope of work to adjacent steel if noted.*
- dd. *Provide all steel angles at duct openings per E531/E4*
- ee. *Provide all security Grilles per section 05 5963 part 2.4*
- ff. *Provide all perforated Plate security vents per section 05 5963 part 2.5*
- gg. *Provide all perforated plate security vents with backup plate per section 05 5963 part 2.6*
- hh. *Provide all tool resisting steel, perforated plate security vents per section 05 5963 part 2.7*
- ii. *Provide all firestop, caulking, puddy, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation*
- jj. *Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3*
- kk. *Provide all housekeeping pads for items provided by this Bid Package. Include all surface prep, anchor bolts and bonding agents.*
- w-ll. ***This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"***

P. Bid Package 15 – Electrical

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications-*(listed items are complete unless noted otherwise)* :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. *078413 Penetration Firestopping [As applicable]*
 - e. *078443 Joint Firestopping [As applicable]*
 - f. 079200 Joint Sealant [As applicable]
 - g. 083100 Access Door and Panels [As applicable]
 - h. 200548 Seismic Controls for MEPFTR Systems *[As Applicable]*
 - i. All division 26 specifications complete
 - j. All division 27 specifications complete
 - k. 280500 Common Work Results [As Applicable]
 - l. 280510 Cabinets and Enclosures for Electronic Security [As Applicable]
 - m. 281300 Access Control System [As Applicable]
 - n. 282300 IP Video Communication System [As Applicable]
 - o. 282350 Electronic Security Systems Network Integration [As Applicable]
 - p. 283105 Auxiliary Control System [As Applicable]
 - q. 284600 Fire Detection and Alarm ~~[As Applicable]~~ *[Complete]*
 - r. 284619 Security Automation System [As Applicable]
 - s. 284620 Video Graphic User Interface System [As Applicable]
 - t. 285123 IP Audio Communication System [As Applicable]
 - u. 312000 Earth Moving [As Applicable]
3. Alternates: See section 012300 — Alternates
4. Allowances:
 - a. Include an allowance of **\$8,000** for temporary electrical usage/meter fees/charges including electrical delivery, electrical supply, taxes, and other fees incurred for temporary power during construction operations. *This allowance shall not be used for power to the project trailer as this is in the base bid scope.*
 - b. All allowances will be for use as directed by the Construction Manager.
 - c. Any allowances listed ~~below~~ *above* are independent of any items listed below in Section 5 – Scope of Work. Allowances are not intended to cover the costs of any items listed in the Scope of Work.
 - d. *Each allowance shall be a separate line item within the schedule of values for each pay application.*
 - e. *Refer to 01 21 00 Allowances for additional information.*
5. Scope of Work
 - a. This contractor shall furnish and install power, new service, lighting, panels, outlets, devices, feeders, relay panels, inverters, ~~security, and security~~/data rough-in, breakers, feeders, site lighting, lighting controls, wire mold, power and final connections to devices *such as overhead doors, coiling doors kitchen equipment and other* equipment supplied by others for a complete electrical scope of work.
 - 1) *Provide severs, racks, cable trays, j-hooks and all other necessary rough-in.*
 - 2) *Provide power and connections to all plumbing provided valve control systems and fixtures.*
 - 3) *Provide site conduits to monument signs, telecom, handholds, flagpole lights, monument sign lights, generator system, backlit medallions, lift stations, grinder stations, etc for fully functional systems.*
 - a.4) *Provide rough-in, wiring and final connection for water management system if applicable.*
 - b. Provide installation of bid package 1 and 2.

- ~~b-1)~~ *Provide all setting, wiring, crane, and all items necessary to install the generator, ATS, and main switch board if not explicitly noted in bid package 1 and 2 to provide a fully functioning electrical system.*
- c. Provide diesel fuel for *full* initial fueling of generator
- d. Provide all downstream/branch-circuit panelboards from the main distribution panel
- e. Provide all conduit and rough-in for detention security monitoring and access control items
 - 1) *This contractor shall be responsible for all 120/208/240 VAC branch circuits including conduit, wiring and connections from power distribution panels, terminal strips and/or receptacles in electronic control panels and/or electronic system devices.*
 - 2) *Provide complete raceway system for security electronics. The raceway system shall include but not be limited to conduit, wire troughs and flex conduit.*
 - 3) *Include receiving head end equipment racks on site.*
 - 4) *Include setting of head end equipment racks and cabinets on site, with connections to raceway system.*
 - 5) *Provide all field device installation and terminations*
 - 6) *Provide aiming and focusing of cameras.*
 - e-7) *Provide rough-in for video visitation system, video arraignment systems, video teleconferencing systems, A/V systems and tele/data systems*
- f. Provide complete fire alarm system including all panels, devices, *power supplies*, wiring and delegated design.
 - ~~f-1)~~ *Provide VESDA system complete including any necessary sample piping. Include all coring for sample piping.*
- g. Include temporary power for the new building and construction trailer.
 - 1. Provide buried conduit and removal at project completion for the construction trailer.
 - 2. Include utility fees associated with setting up and deactivating temporary service.
 - 3. Include (3) three-phase temporary power connections for other trades.
 - 4. Include connections for temporary HVAC equipment.
 - 5. Furnish, install, and maintain temp lighting at all areas of construction per OSHA standards.
- h. Electrical contractor to review all MEPFP drawings to ensure power is provided to all devices per these drawings. ~~Steel angles and beam framing provide by steel bid package.~~
- i. Provide wiring to emergency switches supplied and installed by other trades; coordinate with plumbing and mechanical contractors; reference the plumbing and mechanical drawings.
- j. Include all excavation, backfill, compaction, and spoil removal for this Scope of Work. Include import of backfill material as required.
- k. Include all layout and surveyor staking as required for installation of items included in this Scope of Work
- l. include electrical control, power, and alarm conduit, and wiring for fire protection pumps and equipment.
 - 1) *Provide power, conduit and final connection to grinder pump.*
 - 2) *Connect all sprinkler monitory devices to fire alarm per FP101 keynote F1*
 - 3) *Connect waterflow alarm to fire alarm per FP101 keynote F9. Provide power/rough in and final connection to alarm.*
 - ~~4)~~ *Provide low volugate wiring frokm duct detector to remote test station per FP101 keynote F17*
- m. Provide *site conduits and hand holes* for telecom/*fiber/data* per site plan *C120*
- n. Coordinate with the low voltage contractor for final camera and access control installation and rough-in needs. Rough-in by this contractor shall align with the project specification requirements. Refer to both the architectural plans, *and detention equipment* & door hardware schedule in addition to the electrical plans, for complete access control and electrified door hardware information and locations.
- o. Include wiring and final connection to all electronic flow and tamper switches.

- p. Includes annual inspections/testing as specified
- q. Include dewatering as necessary to install items provided under this Scope of Work. *Comply with NOI standards, refer to RFI 45*
- r. Include preparation, wiring, pads, conduit, cabinets, and other electrical accessories for electrical power and telecom services as specified in the Contract Documents.
- s. Include coordinating and scheduling with all local utilities and authorities having jurisdiction. Include all trade permit and inspection fees.
- t. Include all specified start-up and Owner training.
- u. Include extended warranties as required to meet Specifications in conjunction with the Project Schedule. Warranties shall start on the day the certificate of Substantial Completion is executed. Units to be started prior to Substantial Completion in accordance with the project schedule for startup, test and balance, and commissioning.
- v. Include early equipment start-up as required per the Project Schedule to provide required cooling, heating, temperature, humidity control, and space acclimation ~~for new gym floor installation.~~
- w. Include coordination with the Owner's Commissioning Agent.
- x. Include all electrical hookups and connections for equipment provided by others. Include core drilling of all openings smaller than 10"x10" in ~~hollow core planks~~ *precast assemblies* for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
- y. Provide all layout of roof penetrations to be cut in by steel bid package
- z. Provide all labeling and identification required for this scope of work required.
- aa. Include cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
- bb. Include access doors/panels as required to access items installed under this Scope of Work.
- cc. Provide coordination drawings and include all required coordination with other MEPFP trades.
- dd. Include street cleaning for debris tracked on streets by this Contractor's operations.
- ee. Include daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades
- ff. Include clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
- gg. *This Contractor shall include furnishing all cast-in electrical components and installation at the precast provider's plant. This includes items and field fixtures that this bid package is providing rough-ins for and/or field fixture installation but are supply by others such as the security electronics system. The electrical bid package shall assume hotel and per diem is required for their workers.*
 - 1) *The electrical bid package shall note all electrical boxes on the precast shop drawings.*
 - 2) *The electrical bid package shall have all cast-in electrical fixtures prepared in advance before panel production. The electrical bid package can put the fixtures together in their shop and bring them to the plant for production, or assemble them at the plant at their option.*
 - 3) *The electrical bid package shall ensure all electrical boxes are completely duct taped and marked on the tape each piece# that they go into.*
 - 4) *The electrical bid package shall include 5% extra material on hand in during production in the event that during casting some changes have to be made to avoid any interference with other items in the panel.*
 - 5) *The electrical bid package shall be at the precast plant during production of the panels to inspect them and make sure that the electrical boxes are located correctly in the panel.*
 - 6) *All electrical materials shall be delivered to the precast plant a couple of days before the production by the electrical bid package.*

- hh. *Provide power and final connection for overhead door operators. Provide all conduit, cabling and final connections for the security electronic controls including items required to provide the door remote controls in central control*
- ii. *Provide all disconnects, VFDs, Starters, motors, controls, actuators, etc, for a fully functioning system that are not shown explicitly to be provided by other bid packages on Contract Documents. This contractor shall review and confirm the responsibility for these items prior to bidding and submit an RFI if necessary items are not shown. No change orders will be issued for items related to this effort*
- jj. *provide firestop box inserts for boxes as required per G136*
- kk. *Provide protection of existing underground water and gas lines were proposed underground conduit crosses these existing lines.*
- ll. *Install TV monitors (E015) and message monitors (E016) provided by Owner. Provide TV/Monitor brackets. Blocking by general trades. Refer to A130 equipment schedule.*
- mm. *Provide all firestop, caulking, puddy, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation*
- nn. *Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3*
- oo. *Provide all housekeeping pads for items provided by this Bid Package unless noted otherwise. Include all surface prep, anchor bolts and bonding agents. Housekeeping pad for generator to be provided by concrete package per S501/16*
- pp. *Install control panel for grinder pump per P401/10*
- qq. *Provide all lighting mounted under cabinets, refer to A700/D6*
- ff-rr. ***This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"***

Q. WORK BY OWNER/ NOT IN CONTRACT

1. Bid package 1 and 2 complete
2. Sanitary lift station, force main, and access drive per C110 keynote 22
3. Gas service to proposed building *including Ameren tap fees/service design fees.*
4. Laboratory and field testing for concrete, masonry, and steel.
5. *Shielding of overhead power lines*
6. *Job Trailer*
7. *Third party commissioning*
8. *Major dewatering such as well points/underground pumping*
9. *Phase 2 kitchen equipment and freezer*
10. *office furniture*
- 4-11. *video visitations monitors*

END OF SECTION 01 12 00

SECTION 00 41 23 - BID FORM

PART 1 - BID FORM

1.1 BID INFORMATION

- A. Bidding Subcontractor: _____.
- B. Project Name: Edgar County Public Safety Center
- C. Project Location: 12636 950th Road Paris, IL 61944
- D. Owner: Edgar County
- E. Architect: Klinger & Associates, PC
- F. CORE Project Number: 22-01-011
- G. Construction Manager: CORE Construction Services of Illinois, Inc.

1.2 BID PACKAGES

- A. The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by Klinger & Associates, PC. and the Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment, and services for the following bid package (**check only the applicable bid package, limit 1 bid package per bid form**), **including all scheduled allowances**, necessary to complete the construction of above-named Project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

- Bid Package 03 – General Trades
- Bid Package 04 – Civil Package
- Bid Package 05 – Asphalt Paving
- Bid Package 06 – Site Concrete
- Bid Package 07 – Building Concrete
- Bid Package 08 – Precast
- Bid Package 09 – Masonry
- Bid Package 10 – Roofing
- Bid Package 11 – Detention Equipment
- Bid Package 12 – Fire Protection
- Bid Package 13 – Plumbing
- Bid Package 14 – HVAC
- Bid Package 15 – Electrical

_____ Dollars (\$_____).

- B. The above base bid amount may be modified by amounts indicated by the Bidder for Alternates and Unit Prices.

- C. Bidders submitting on multiple bid packages must do so with separate bid forms for each bid package.
- D. The above base bid shall include all allowances specified for the noted bid package per section 00 24 00 Bid Packages

1.3 ALTERNATES

- Alternate 1: Provide 1 bay sallyport in lieu of 2 bays*
 _____ Add Dollars (\$ _____)
- Alternate 2: Add mobile storage shelving in records storage*
 _____ Add Dollars (\$ _____)
- Alternate 3: Add all landscaping plantings*
 _____ Add Dollars (\$ _____)
- Alternate 4: Remove form liner/ improved finishes on noted precast panels*
 _____ Deduct Dollars (\$ _____)
- Alternate 1: Remove form liner/ improved finishes on noted precast panels and provide as-cast finish for all panels*
 _____ Deduct Dollars (\$ _____)
- Alternate 2: Provide concrete paving in lieu of asphalt at standard and heavy duty pavement locations noted on C110 per pavement details on C111*
 _____ Add/Deduct Dollars (\$ _____)

Refer to section 01 23 00 Alternates for additional information
Circle add or deduct

1.4 UNIT PRICES

Unit Price 3a: Laborer Hours
 Bid Package BP3 – General Trades
 \$ Per Unit: _____ Per SF
 Qty to be included: 450 HR **In base bid**
 Total Allowance: _____ Dollars (\$ _____)

Unit Price 3b: Carpenter Hours
 Bid Package BP3 – General Trades
 \$ Per Unit: _____ Per SF
 Qty to be included: 50 HR **In base bid**
 Total Allowance: _____ Dollars (\$ _____)

Refer to section 01 22 00 Unit Prices for additional information
 General trades bidder shall include the total allowance values listed above in their base bid price

1.5 VOLUNTARY COMBINATION DEDUCT

- A. The undersigned bidder may provide at their option, a voluntary deduct if the Owner accepts the following bid packages from this bidder (indicate applicable packages below):

- Bid Package 03 – General Trades
- Bid Package 04 – Civil Package
- Bid Package 05 – Asphalt Paving
- Bid Package 06 – Site Concrete
- Bid Package 07 – Building Concrete
- Bid Package 08 – Precast
- Bid Package 09 – Masonry
- Bid Package 10 – Roofing
- Bid Package 11 – Detention Equipment
- Bid Package 12 – Fire Protection
- Bid Package 13 – Plumbing
- Bid Package 14 – HVAC
- Bid Package 15 – Electrical

Deduct to the total of the base bids:

_____ Dollars (\$ - _____).

- B. The above deduct shall be applied to the total sum of the noted packages. In example:

*Bid Package 1 base price = \$10
 Bid Package 2 base price = \$10
 Voluntary Combo Deduct = \$-2
 Total combo price if base bid price 1 and 2 is accepted = \$18*

- C. The deduct above should be the same on each bid package bid form submitted that comprises the combination price. In the example above, write -\$2 on the bid forms for bid package 1 and bid package 2. In the event of a conflict, the greater amount shall govern.
- D. Each bid package shall be a stand-alone price. Rejection of a voluntary combination deduct offered by a bidder shall not be the basis of an increase to any bid package's base bid price.

1.6 BID GUARANTEE

- A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within **10** days after a written Notice of Award, if offered within **60** days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, constituting 5 of the Base Bid amount above:

- B. In the event Owner does not offer a Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.7 TIME OF COMPLETION

- A. The undersigned Bidder proposes and agrees hereby to complete the Work of the Contract Documents as shown in the schedule in section 00 31 13 – Project Schedule.

1.8 ACKNOWLEDGEMENT OF ADDENDA

- A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

- 1. Addendum No. 1, dated _____.
- 2. Addendum No. 2, dated _____.
- 3. Addendum No. 3, dated _____.
- 4. Addendum No. 4, dated _____.
- 5. Addendum No. 5, dated _____.
- 6. *Addendum No. 6, dated _____.*
- 7. *Addendum No. 7, dated _____.*
- 8. *Addendum No. 8, dated _____.*
- 9. *Addendum No. 9, dated _____.*
- ~~6-10.~~ *Addendum No. 10, dated _____.*

- B. Note all addenda issued. If addendum number is not applicable or was not issued for this project write "NA" or leave that line blank.

1.9 CONTRACTOR'S LICENSE

- A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.10 SUBMISSION OF BID

- A. Respectfully submitted this ____ day of _____, 2024.
- B. Submitted By: _____ (Name of bidding firm or corporation).
- C. Authorized Signature: _____ (Handwritten signature).
- D. Signed By: _____ (Type or print name).
- E. Title: _____ (Owner/Partner/President/Vice President).
- F. Street Address: _____.
- G. City, State, Zip: _____.

- H. Email: _____.
- I. Phone: _____.
- J. License No.: _____.
- K. Federal ID No.: _____ (Affix Corporate Seal Here).

END OF SECTION 00 41 23



CORE Construction Services of Illinois, Inc.

Printed on Fri Apr 19, 2024 at 11:59 am CDT

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RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
149	Roof Hydrant Frame	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
Q:	Levi Bauer Sent Mon Apr 15, 2024 at 04:39 pm CDT Detail 10 on P400 shows angle framing support but none of this is sized and there isn't any thing noted on S203 at the hydrant location on the roof, please clarify support framing sizing.													
A:	Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:21 am CDT General trades shall provide roof hydrant support framing.													
A:	Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:13 am CDT REVISE: The roof hydrant shown on P400 has a steel angle framing support, see 3/S513. See items shown clouded on sheet S203.													
148	Power to mezzanine OH door	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
Q:	Levi Bauer Sent Mon Apr 15, 2024 at 04:26 pm CDT E202 doesn't appear to show any power to the overhead coiling door on the mezzanine level. Section 08 3323 indicates this door has an electric operator													
A:	Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:13 am CDT REVISE: Added power to door operator. Refer to updated sheet E302.													
147	Door DV1	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
Q:	Levi Bauer Sent Mon Apr 15, 2024 at 03:42 pm CDT Door DV1 has hardware set 2 noted in the door hardware schedule which is an access controlled door. E201 does not show any power to this door.													
A:	Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:14 am CDT REVISE: Added power for door hardware. Refer to updated sheet E301. ADD 5													
146	Door 101	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
Q:	Levi Bauer Sent Mon Apr 15, 2024 at 03:37 pm CDT Door 101 (main lobby entrance) is hardware set 1.0 in section 087100, there is access control equipment schedule for this door including electric strikes, power supplies, card readers, etc but there is nothing shown on either the electrical power plan E201 or the security electronics plan SE100 for this opening. These doors also have auto operators and no junction boxes appear to be shown on E201 at this opening													
A:	Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:14 am CDT REVISE: Added power for door hardware. Refer to updated sheet E301. ADD 5													
145	Shower Floor Drains	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
Q:	Levi Bauer Sent Mon Apr 15, 2024 at 02:40 pm CDT Showers 130 and 132 appear to use a onyx shower base to provide slope per A900 but there are floor drains in the toilet rooms immediately outside of these shower areas that have a sloped floor. I'm assuming the slab should be installed flat at the shower locations? the slab plan on S102 doesn't have the shower drains shown and doesn't provide a slope outline for the toilet room drains.													
A:	Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:14 am CDT CLARIFY: The floor slab should be flat at the Onyx shower pans and at the ramp (shown by hatch pattern on sheet A130). Beyond these extents, slope floor per structural to the floor drains near toilets. ADD 5													



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144	metal panel J-channel	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
<p>Q: Levi Bauer Sent Mon Apr 15, 2024 at 02:13 pm CDT Is J-channel or an expansion joint required where the metal panels abut the precast panels per A500/D2, D6, A3, A5, etc? There's no sealant show here either to close off the panel.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:27 am CDT Roofing bid package to provide flashing and J-Channel</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:15 am CDT A: CLARIFY: In the plan details, transition flashing is required and noted to seal air barrier to precast panels. No expansion joints or sealant are required where the two materials meet. If it is not feasible to order custom size end panels, a J-channel is acceptable to terminate metal panels at precast. Leave ¼" gap between J-channel and face of precast panel. ADD 5</p>														
143	precast parapet detail	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
<p>Levi Bauer Sent Mon Apr 15, 2024 at 02:10 pm CDT per the 95% review regarding the parapet detail: Q: 1. how is the insulation attached to the precast? 2. is wood blocking required over the top of the parapet? there's a fastener shown here but no blocking. 3. detail calls for fire treated but believe this should be pressure treated.</p> <p>parapet detail.pdf</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:15 am CDT CLARIFY: The rigid insulation encapsulating the back side and top of the precast concrete walls panels shall be adhered to the precast wall panels. This is typical for all conditions and details.</p> <p>A: REVISE: The fire treated wood blocking shown on the exterior of the concrete precast wall panels shall be exterior rated. This is typical for all conditions and details. See Section 061000 Rough Carpentry. ADD 5</p>														
142	Lighting in mech 111	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
<p>Q: Levi Bauer Sent Mon Apr 15, 2024 at 01:48 pm CDT E101 shows two lights in mechanical 111 but A200 shows 4. can you confirm E101 is correct?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:15 am CDT CLARIFY: Provide two fixtures as indicated on E101. ADD 5</p>														
141	Floor Drains at holding 2 + 3	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
<p>Levi Bauer Sent Mon Apr 15, 2024 at 01:36 pm CDT Q: Can you confirm floor drains are not required for holding 2 and 3 in the booking area? P100/P101 doesn't show any floor drains for these cells but there is one for holding 1 and the padded holding cells. S102 doesn't show sloped slabs either.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:15 am CDT CLARIFY: As shown on the plans issued for bidding, Holding cells H2 and H3 do not require floor drains. ADD 5</p>														
140	Drop-in Deal tray	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
<p>Q: Levi Bauer Sent Mon Apr 15, 2024 at 01:30 pm CDT</p>														



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	<p>The Drop-in Deal tray and the package pass on A130 item E021 and E020 appears to be specified in the detention accessory spec 10 2813.63 but are in the regular equipment schedule rather than the detention equipment schedule on the same sheet, can these be moved to the detention equipment schedule?</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:16 am CDT REVISE: The deal tray (E021) has been removed from equipment schedule. It is part of the AVT security window and specified in new spec section 085653.</p> <p>A: REVISE: The package pass (E020) has been moved to the Detention Equipment Schedule.</p> <p>ADD 5</p>													
139	Visitation System/Monitors	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
	<p>Q: Levi Bauer Sent Mon Apr 15, 2024 at 01:25 pm CDT Can a specification be shared for the visitation monitors? these are noted as owner furnished and contractor installed on A130 item 9 and would like to confirm what rough-in is required and installation instructions.</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:31 am CDT A: For bidding purposes, the video visitation monitors shall be assumed to be provided by the Owner's Vendor.</p> <p>Electrical bid package to provide all rough-ins</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:16 am CDT A: CLARIFY: The video visitation monitors shown in these details are identified in the Detention Equipment Schedule as Owner Furnish and Contractor Installed. The Owner is working with a selected vendor for the visitation monitors. Telecom sheets show data outlets required and the architectural plans and interior elevations show locations. ADD 5</p>													
138	Evidence processing 123 opening	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
	<p>Q: Levi Bauer Sent Mon Apr 15, 2024 at 01:14 pm CDT on A101 there's a 3' gap on the south wall but there's no cased opening shown there. A102 shows some kindof piece of equipment but there's no elevation provided or information on the mechanical sheets about what this is. Can you clarify what is required at this location.</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:16 am CDT A: CLARIFY: Within Evidence Processing room #123, the equipment shown on the south wall is labeled on the enlarged plan detail shown on sheet A130 Enlarged Plans, Detail #E6. The equipment is identified in the Detention Equipment Schedule found on sheet A130. ADD 5</p>													
137	Masonry Wall Heights	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
	<p>Q: Levi Bauer Sent Mon Apr 15, 2024 at 01:03 pm CDT Does the "top of CMU wall on 1st floor" note apply to wall types M8 and M12? S8 and S6 are listed but not M8 and M12</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:16 am CDT A: CLARIFY: Type 'M' partitions are full height to bottom of deck. M12S is the storm shelter wall. Refer to sheet G130, Partition Types. ADD 5</p>													
136	Conduit to san lift station	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
	<p>Q: Levi Bauer Sent Mon Apr 15, 2024 at 11:19 am CDT Per the attached, can you clarify if this conduit to the lift station is required? it's shown on C120 but not E100 Conduit to lift station.pdf</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:33 am CDT</p>													



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	Electrical bid package to provide power/conduit and connection as directed													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:17 am CDT CLARIFY The conduits to the lift station are required in order to power or provide backup power to the lift station during a potential outage. This has been updated on Sheet E100 Electrical Site Plan ADD 5													
135	Site conduit on south side of building	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
	Q: Levi Bauer Sent Mon Apr 15, 2024 at 11:15 am CDT Per the attached there conduits shown on C120 on the south side of the building that don't appear on E100 are these required? Coundit on south side of blg.pdf													
	A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:35 am CDT Electrical bid package to provide conduit, power and connection as directed													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:17 am CDT CLARIFY: The conduits shown on C120 are required. This has been updated on Sheet E100 Electrical Site Plan ADD 5													
134	Conduit to Monument Sign	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
	Q: Levi Bauer Sent Mon Apr 15, 2024 at 11:02 am CDT C120 shows a different routing for the conduit to the monument sign than E100, can you confirm C102 has the correct routing that requires additional conduit around the detention pond? see attached Conduit to Monument Sign.pdf													
	A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:35 am CDT Electrical bid package to provide conduit, power and connection as directed													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:17 am CDT CLARIFY: The routing of the conduit to the monument sign that is shown on Civil sheets C102/C120 are correct. This has been updated on Sheet E100 Electrical Site Plan ADD 5													
133	Gas Service Location	Closed		None	Springer, Amanda ...	04/15/2024	Levi Bauer	04/20/2024	04/19/24					
	Q: Levi Bauer Sent Mon Apr 15, 2024 at 10:56 am CDT The gas service and meter are shown to the east of the storm sewer coming into the building on C102 but P100 shows the gas service to the west of the storm sewer. Can you clarify which location is correct for the gas service?													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:18 am CDT REVISE: The gas service should be on the east side of the sanitary service per P100 Plumbing Foundation Plan. Civil sheets have been updated to reflect this revision. ADD 5													
132	079513 Expansion Joint Cover Assemblies	Closed		None	Springer, Amanda ...	04/10/2024	Levi Bauer	04/15/2024	04/19/24					
	Q: Levi Bauer Sent Wed Apr 10, 2024 at 03:18 pm CDT 079513 Expansion Joint Cover Assemblies appears on the table of contents of the project manual but doesn't appear to be included in the project manual or addenda 1-4. Is this spec required? A531/D8 shows a joint but no other locations appear to be noted.													
	A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:08 am CDT Spec removed, refer to addendum 5 Expansion joint cover for A531/D8 shall be provided by general trades.													
131	061600 Sheathing	Closed		None	Springer,	04/10/2024	Levi Bauer	04/15/2024	04/19/24					



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					Amanda ...									
	<p>Q: Levi Bauer Sent Wed Apr 10, 2024 at 03:10 pm CDT 061600 Sheathing is listed in the table of contents for the project manual but no specification is included in the project manual or was issued in addendum 1-4. I see sheathing listed in part 1.1 A of section 06 1000. Can you confirm there's no section 061600 Sheathing required?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:05 am CDT sheathing specified in section 06 1000. See addendum 5</p>													
130	Substitution Request - Cornerstone	Closed		None	Springer, Amanda ...	04/10/2024	Levi Bauer	04/15/2024	04/19/24					
	<p>Q: Levi Bauer Sent Wed Apr 10, 2024 at 02:50 pm CDT Please see attached substitution request regarding the electronic security systems submitted on behalf of Cornerstone Detention Products. Cornerstone Substitution Request.pdf</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:18 am CDT ADD: Cornerstone Detention Products is an approved supplier. ADD 5</p>													
129	Pneumatic Control for Showers	Closed		None	Springer, Amanda ...	04/10/2024	Levi Bauer	04/15/2024	04/19/24					
	<p>Q: Levi Bauer Sent Wed Apr 10, 2024 at 07:59 am CDT The specified SV-2 and SV-3 showers are noted to be pneumatically controlled metering valves, and to also be controlled by the building water management system. Talking with the manufacturer, if the showers need to be controlled by the water management system, the valve would need to be electronic rather than pneumatic. Please advise if the intent is to have the showers controlled by the water management system, and if so, please advise an acceptable model number to do so.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:19 am CDT REVISE: Valves are intended to be electronically controlled and managed by the building water management system. The narrative description on the schedule has been updated from Pneumatic to Electronic to match the model number. Refer to updated P500 issued in Addendum 5. ADD 5</p>													
128	Opening Connections in Secure Perimeter	Closed		None	Springer, Amanda ...	04/09/2024	Levi Bauer	04/14/2024	04/19/24					
	<p>Q: Levi Bauer Sent Tue Apr 9, 2024 at 01:00 pm CDT Detail E4 on A531 indicates to "weld full length" in both the section and elevation but it's not clear what is supposed to be welded. Is this indicating the embed plates should be welded where the meet in the corners or the duct is supposed to be welded to the steel plates? I don't know if you can weld ductwork to a like that.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:37 am CDT Masonry bid package to provide welding as noted.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:19 am CDT CLARIFY: Detail E4/A531 was updated in Addendum 04. The angles around the CMU walls are welded to the flat steel plates. The ductwork is installed into the opening, but not welded to the steel plates. ADD 5</p>													
127	Food Service Equipment Specification	Closed		None	Springer, Amanda ...	04/09/2024	Levi Bauer	04/14/2024	04/19/24					
	<p>Q: Levi Bauer Sent Tue Apr 9, 2024 at 11:08 am CDT Can you clarify if there is a food service specification? There doesn't appear to be one included in the bid documents, just the K100 drawing.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:18 am CDT spec issued in addendum 5</p>													
126	085113 Security Windows Spec	Closed		None	Springer,	04/08/2024	Levi Bauer	04/13/2024	04/19/24					



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					Amanda ...									
	<p>Q: Levi Bauer Sent Mon Apr 8, 2024 at 05:01 pm CDT 085113 Security Windows is listed in the table of contents in the project manual (page 6) but doesn't appear to be included with the project manual or addendum 1-3. Can you provide a specification or clarify if it's not required?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:19 am CDT ADD: 085113 Security windows spec section has been added to the project manual. ADD 5</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:17 am CDT see addendum 5</p>													
125	Kitchen Equipment Phasing	Closed		None	Springer, Amanda ...	04/07/2024	Levi Bauer	04/12/2024	04/17/24					
	<p>Q: Levi Brooke Sent Fri Apr 5, 2024 at 12:39 pm CDT Can you confirm if both phase 1 and phase 2 equipment needs to be included in my proposal? From the FSE drawing the following information is listed. kitchen equipment 2.png kitchen equipment 1.png</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 08:47 am CDT Answered in Addendum 4</p>													
124	Bearing Capacity for aggregate Piers	Closed		None	Springer, Amanda ...	04/07/2024	Levi Bauer	04/12/2024	04/19/24					
	<p>Levi Brooke Sent Fri Apr 5, 2024 at 09:56 am CDT It appears that all of the strip and spread footings are specified for improvement to 4000psf bearing capacity by aggregate piers.</p> <p>Q: In previous budgets, the interior "F2" footings in the west portion of the building had lower load conditions (1.5kips/lf) and did not require improvement. The reduced load is reflected in the current wall footing schedule, so improvement for those interior footings with the reduced loads would not be required but the cross section in the foundation details still shows aggregate piers. Do all strip footings in the structure (F1 and F2) require ground improvement to a 4000psf contract pressure or is the detail just need to be updated?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:38 am CDT General trades to bid as directed</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:20 am CDT CLARIFY: Building footings require ground improvement to control settlement. This includes footings F2. Footings F2 only require the ground improvement needed for 1.5 kips per lineal foot net foundation load per the comments. Also see the response in addendum 4 for additional clarification. The foundation loading is net bearing pressure not based on contact pressure (gross bearing pressure). ADD 5</p>													
123	Burglar Bars Responsibility	Closed		None	Bauer, Levi (CORE...	04/07/2024	Levi Bauer	04/12/2024	04/17/24					
	<p>Q: Levi Brooke Sent Fri Apr 5, 2024 at 09:53 am CDT Who is responsible for supplying the burglar bars at skylight? (In Yellow) Glazing questions.png</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 17, 2024 at 01:05 pm CDT All burglar bars will be supplied by the detention package. Installation of burglar bars depends on location but for skylights will be provided by the general trades via the steel erector. Refer to revised bid packages</p>													
122	Skylight Responsibility	Closed		None	Bauer, Levi (CORE...	04/07/2024	Levi Bauer	04/12/2024	04/19/24					



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	<p>Levi Brooke Sent Fri Apr 5, 2024 at 09:51 am CDT</p> <p>Q: Does the glazer need to pick up the white sheet metal liners with trims shown in green? Glazing questions.png</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:39 am CDT Confirmed, glazing bid package shall provide sheet metal liners with trims as shown in the attached detail.</p>													
121	Vesda system responsibility	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/07/24					
	<p>Levi Bauer Sent Wed Apr 3, 2024 at 04:36 pm CDT</p> <p>Q: Is the FP contractor to supply the Vesda System and Duct Detectors plus wiring as noted in FP notes?</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:52 pm CDT</p> <p>A: VESDA system complete including any necessary sample piping shall be provided by fire alarm vendor via electrical bid package.</p> <p>Mechanical bid package to provide all backends/adapters as necessary to tie-in dampers to system if required.</p>													
120	Additional HVAC controls questions	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/17/24					
	<p>Levi Bauer Sent Wed Apr 3, 2024 at 04:35 pm CDT</p> <p>Q: 1. The RTU-2 and RTU-3 Controls Diagram and points list shows a thermostat and zone humidity sensor shall be provided for each zone (Qty.7 total). Please confirm that thermostats and humidity sensors shall be located in the return duct of their respective zones. Please confirm that setpoints shall be adjusted through the graphics.</p> <p>2. Please provide quantity and locations of CO and NO2 sensors with the Vehicular Sallyport.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:38 am CDT Answered in Addendum 4</p>													
119	Low Voltage Questions	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/17/24					
	<p>Levi Bauer Sent Wed Apr 3, 2024 at 04:26 pm CDT</p> <p>Q: 1. TN000 Responsibility Matrix Indicates that the owner will provide and install the network switch and UPS. TN300 Plan Notes T13 and T17 indicates contractor to install these devices, which is correct?</p> <p>2. How many switches and UPS's are there if contractor is installing?</p> <p>3. TN000 indicates that 2D,IP has (2) cables for an inmate wall phone, TN400 (3) indicates a single position wall phone plate. Will the 2nd terminated cable be placed inside the junction box? Please advise.</p> <p>4. TN101 Plan Note T10 indicates to provide a 24-port patch panel at each dispatch work station with (8) Cat 6 Cables routed to Dispatch Server141. Are these additional cables to the cables indicated on the drawings?</p> <p>5. Will the patch panels at each Dispatch Workstation be wall mounted?</p> <p>6. Is there any fiber or copper between the 2 closets?</p> <p>7. TN300 Plan T16 says to provide optical fiber panel, see division 27 for additional information. There isn't anything about fiber, What type of fiber(single mode, multimode)?</p> <p>8. How many strands of fiber? What type of connector ends for fiber(SC,LC)</p> <p>9. If there is fiber needed, can TiniFiber be used since other fibers have big MOQ's?</p> <p>10. TN101 Cell area says cables in this area feed back to server room 134 and land on the Encartel Rack, TN102 Mezzanine area says cables run back to server room 134. Do these cables land on the Encartel rack as well?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:32 am CDT Answered in Addendum 4</p>													
118	Ballistic Glazing Responsibility	Closed		None	Bauer, Levi (CORE...	04/03/2024	Levi Bauer	04/08/2024	04/17/24					



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	<p>Levi Bauer Sent Wed Apr 3, 2024 at 04:23 pm CDT [Question from glazer]</p> <p>Q: In the bid package for i) "Aluminum, Glass & Glazing" line item 16) states "Provide all bullet proof/resistant glazing and bullet films. Am I to pick up detention glazing where the inmates are housed? Usually, we just pick up the standard storefront/curtainwall framing and glazing. We aren't set up to install or provide detention rated frames/glazing.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 17, 2024 at 12:55 pm CDT All security glazing and bullet films per 088853 SECURITY GLAZING shall be provided by the detention bid package. Bid packages have been updated to this effect</p>													
117	Hollow Core	Closed		None	Bauer, Levi (CORE...)	04/03/2024	Levi Bauer	04/08/2024	04/03/24					
	<p>Q: Levi Bauer Sent Wed Apr 3, 2024 at 04:11 pm CDT The scope, drawings and bid request all reference hollowcore plank but we don't see any on the drawings. Is there something I am missing somewhere</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 3, 2024 at 04:13 pm CDT Hollow core was going to be used for the mezzanine deck in previous drawing iterations but has been removed from the design.</p>													
116	Grinder Specifications	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/07/24					
	<p>Q: Levi Bauer Sent Wed Apr 3, 2024 at 04:07 pm CDT There are no specifications for the grinder pump in the sanitary manhole shown on P401/10. Please provide a specification.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 3, 2024 at 04:07 pm CDT Refer to item SG on P500 addendum 2.</p>													
115	Sign Type C and D - Quantity Confirmation	Closed		None	Bauer, Levi (CORE... Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/17/24					
	<p>Q: Logan Smith Sent Tue Apr 2, 2024 at 01:15 pm CDT Wording in drawings differ from the count tally given on A540 for Sign Types C and D. For Sign Type C, are (15) or (17) signs needed? For Sign Type D, are (58) or (26) signs needed?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:38 am CDT Answered in Addendum 4</p>													
114	Road Patrol Room - Level 3 Ballistic Window Frame	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/17/24					
	<p>Logan Smith Sent Tue Apr 2, 2024 at 01:40 pm CDT There is one window in the Road Patrol room that appears to be a Level 3 ballistic type window frame. However, there is no ballistic window spec for this job.</p> <p>Q: Shall I make assumption on how to bid this window using my BR window vendor? (RFI from glazing contractor)</p>													



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	A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:37 am CDT Answered in Addendum 4													
113	Kitchen Equipment	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/07/24					
	Q: Logan Smith Sent Tue Apr 2, 2024 at 01:30 pm CDT Based on the General Food Service Notes on K100, please confirm if both Phase 1 and Phase 2 equipment need to be included in the equipment proposal.													
	A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 02:26 pm CDT Refer to RFI 125													
112	Tornado Signage	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/03/24					
	Logan Smith Sent Tue Apr 2, 2024 at 01:11 pm CDT - What are tornado signs to be made of? Are raised borders or frames shown in drawings?													
	Q: - Are any tornado signs S4 needed? - Is tornado sign S5 to be single or double sided? What kind of ceiling mount hardware is needed?													
	A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 3, 2024 at 03:13 pm CDT Refer to RFI 36													
111	Precast - Cast-In Electrical Connections	Closed		None	Bauer, Levi (CORE...)	04/03/2024	Levi Bauer	04/08/2024	04/07/24					
	Q: Logan Smith Sent Tue Apr 2, 2024 at 01:04 pm CDT We see the electrical connections are cast-in. I counted 98, but I am not an electrician, so I am not totally sure which designations need to be cast-in. Do you have a confirmed quantity we can use for bid? (from precast supplier)													
	A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 02:27 pm CDT Quantity survey shall be performed by bidder.													
110	Precast - Cast-In Wood Blocking	Closed		None	Bauer, Levi (CORE...)	04/03/2024	Levi Bauer	04/08/2024	04/03/24					
	Q: Logan Smith Sent Tue Apr 2, 2024 at 01:01 pm CDT E12/A800: Is cast-in wood blocking required? (from precast supplier)													
	A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 3, 2024 at 03:02 pm CDT Refer to RFI response 70													
109	Allowance - Bid Package 04 (Civil)	Closed		None	Bauer, Levi (CORE...)	04/03/2024	Levi Bauer	04/08/2024	04/17/24					
	Q: Logan Smith Sent Tue Apr 2, 2024 at 12:56 pm CDT													



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	<p>In bid package 4 (Civil) the \$20,000 allowance mentioned covers maintenance, regrading, and dress up of temporary and permanent access roads / laydown areas.</p> <p>Does this also cover the cost of additional stone that will be required due to all the construction traffic?</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 02:11 pm CDT</p> <p>A: Confirmed, this allowance is also intended to cover final regarding of the temporary roads prior to installation of permeant pavement. Refer to RFI 31 for additional information.</p>													
108	UL-864 Listed Unit Controllers and Code Compliance	Closed		None	Springer, Amanda ...	04/03/2024	Levi Bauer	04/08/2024	04/19/24					
	<p>Levi Bauer Sent Wed Apr 3, 2024 at 02:38 pm CDT [Question from siemens]</p> <p>Q: The latest addendum clarified that the unit controllers should be UL-864 listed. I contacted Greenheck (who is BOD) for the units to coordinate with them. They can't provide a UL listed controller. We discussed a means of wiring the supply and return damper and fans so that we can control them and be code compliant and they can't change to high speed actuators or it voids their ETL listing for the unit. We own York and can't bid our packaged units for the same reasons.</p> <p>Can you ask the engineer if anyone listed can actually do it and let me know? If the answer is yes then I will bid the controls. If the answer is no then I'm not sure if anyone will bid the project if they actually understand the requirements</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:04 am CDT see addendum 5</p>													
107	Masonry Clarifications	Closed		None	Bauer, Levi (CORE... Springer, Amanda ...	04/02/2024	Levi Bauer	04/07/2024	04/15/24					
	<p>Kareem Castaneda Sent Tue Apr 2, 2024 at 11:10 am CDT [Questions from masonry contractor]</p> <p>Q: 1) Is code #3 detail H on A531 intended to be code #5? 2) Will we install frames, or will others install? 3) What sealant is required for this? 4) Is this steel faced masonry unit considered an embedded item supplied by others? See spec 04 2900 2.3 Detention Equipment.jpg Frames.jpg Sealant.jpg Steel Faced Masonry Unit.jpg</p> <p>Dan Joos (CORE Construction - Peoria) Responded Wed Apr 10, 2024 at 03:18 pm CDT In addition to Levi Bauer response dated 4/8 below:</p> <p>A: Masonry contractor will still be responsible for installing embeds, anchors, grouting, temp shoring, checking of level, checking to confirm frames are square, and to assure all MEP rough-ins are maintained during the installation of the walls around the frames.</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Mon Apr 8, 2024 at 10:51 am CDT Item 2 - General trades will install all non-detention hollow metal frames. The detention package will install all detention frames. Frame installation will be removed from the masonry package.</p> <p>A: Item 4 - Steel faced masonry units will be supplied by the detention package and installed/grouted by the masonry package.</p> <p>The bid packages will be updated to this effect.</p>													



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	<p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 3, 2024 at 03:34 pm CDT Klinger to clarify items 1 and 3. CORE will address items 2 and 4.</p>													
106	Interior Wall Footings	Closed		None	Springer, Amanda ...	04/02/2024	Levi Bauer	04/07/2024	04/17/24					
	<p>Q: Kareem Castaneda Sent Tue Apr 2, 2024 at 10:54 am CDT For the interior wall footings that have a TOF of 100', (F2, F3, and F4) is there any way to differentiate when these need to be poured with the floor as a thickened slab reference details 7,8,&9 on S502 or as a separate footing with a short stem wall for the block reference details 8,10, &11 S503. The provided detail cuts are minimal and only show a few locations leaving my interpretation for only the F2 to be poured with the slab and the F3 and F4 to follow the details on S503. Please advise.</p>													
	<p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:33 am CDT Answered in Addendum 4</p>													
105	Mini-split drain sizes	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 10:26 am CDT RFI-Mini Split Drains Drawings do not indicate where to drain the indoor mini splits and drain size?</p>													
	<p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:37 am CDT Answered in Addendum 4</p>													
104	Substitution Request - Siemens	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/19/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 10:24 am CDT Substitution Request - DDC Controls Siemens To whom this concerns, Siemens has been asked to provide a controls number for this project and we are seeking approval. Siemens would like to be an acceptable manufacture for Direct-Digital Controls in Specification section 230923, part 2.1 A. If there is a specific form required, please send it to me and I will fill it out. Thank you!</p>													
	<p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:19 am CDT was approved in addendum 5</p>													
	<p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 11, 2024 at 09:32 am CDT Substitution Request is attached Siemens Substitution Request.pdf A6V11852707.pdf A6V10304985_en (1).pdf</p>													
	<p>A: Levi Bauer (CORE Construction - Peoria) Responded Sat Mar 30, 2024 at 10:25 am CDT A substitution request form is required before this substitution request can be considered.</p>													
103	Panel question	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/19/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 10:16 am CDT The panels below are shown on the one line diagram with a note saying fusible. The panel schedule however just shows these as either MLO or MB panels. What is meant by fusible and what type of panel will be required? LRL1 LRL2</p>													



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	LRUPS LRH3 LSH1 LSH2													
	<p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:31 am CDT Line item 29 on Addendum 4</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Apr 19, 2024 at 09:27 am CDT CLARIFY: Panels indicated are fusible type for selective coordination on the emergency electrical system. Updated Panelboard schedules included in Addendum #4.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Mon Apr 15, 2024 at 04:31 pm CDT This answer doesn't appear to have been provided in addendum 4</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:31 am CDT Answered in Addendum 4</p>													
102	SS-1 spec	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 10:08 am CDT This job calls for SS-1 for the solid surface in various areas. The finish schedule doesn't have this listed out.</p> <p>Can you provide a specification for SS-1</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Wed Apr 17, 2024 at 12:42 pm CDT The solid surface countertop is specified in section "123661 Simulated Stone Countertops. It was not added in the addendum but was clarified as to where to find the information for SS-1. See line item 18 Addendum 4. 123661 - Simulated Stone Countertops.doc</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 17, 2024 at 12:27 pm CDT A specification doesn't appear to have been added for SS-1 to the finish schedule or elsewhere in addendum 4</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:36 am CDT Answered in Addendum 4</p>													
101	Aggregate pier loads	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 10:04 am CDT [Question from aggregate Pier provider] Are you able to provide the actual load and dead/live breakdown for the footings? Designing based off the actual loads instead of just the bearing capacity will give you a more economical price.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:35 am CDT Answered in Addendum 4</p>													
100	Agg pier testing	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 10:03 am CDT [Question from aggregate pier provider] The specs mention a list of testing including modulus test, bottom stabilization test, cap stabilization test and uplift load test. These are not industry standard tests, and should not apply for this project, especially the uplift load test as there is no uplift requirement on this project. Please confirm that a single element modulus test following ASTM D1143 quick test procedure A is acceptable for load testing and nothing else will be required.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:35 am CDT</p>													



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	Answered in Addendum 4													
99	predrilling for aggregate piers	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Levi Bauer Sent Sat Mar 30, 2024 at 10:01 am CDT [question from aggregate pier provider]</p> <p>Q: The specs look to be written for an old school predrill and tamping stone column setup. These are not the typical modern method of installation. In soils with loose granular layers like those present on this site it is standard practice to use vertical or horizontal vibrating probes that penetrate without predrilling, and install stone through the center of the tooling as the probes are removed. As you remove the probes and install the stone you frequently reinsert the probe down while vibrating to consolidate the stone and create the stiffness required. Furthermore, we would not expect predrilled holes to stay open in loose granular soils, so the predrilling will not benefit the installation. Please confirm this is an acceptable installation method and that the predrilling and tamping requirements mentioned in the specs are not required.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:36 am CDT Answered in Addendum 4</p>													
98	Aggregate pier replacement ratio	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Levi Bauer Sent Sat Mar 30, 2024 at 09:59 am CDT [question from aggregate pier provider]</p> <p>Q: The specs mention a minimum area replacement ratio of 30%. This is much higher than what is required for design, and what is realistic to install. At ARR above 20% you start to get interference between the columns and ground heave. Since the stone columns are design build and we are in control of the design, please remove this spec requirement.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Wed Apr 17, 2024 at 12:32 pm CDT Addendum 4, Line item 20: ADD: Add the following to specification section 316613 paragraph G.2.b. "In place of the minimum stone column area coverage the ground shall be improved to provide uniform soil stiffness and soil bearing pressure at the footing bearing surface."</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:34 am CDT Answered in Addendum 4</p>													
97	Pier installation elevation	Closed		None	Bauer, Levi (CORE...)	03/30/2024	Levi Bauer	04/04/2024	04/07/24					
	<p>Levi Bauer Sent Sat Mar 30, 2024 at 09:57 am CDT [question from aggregate pier provider] Existing grade varies from 716'-720', should we assume we will be installing from around 718' -719'?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 02:07 pm CDT Aggregate pier installer will be installing piers at approximately -12" below finish floor elevation. Subgrade elevation varies. Refer to RFI 3.</p>													
96	Overhead door material	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Levi Bauer Sent Sat Mar 30, 2024 at 09:45 am CDT 83323-2</p> <p>Q: 2.1 A spec calls for insulated aluminum - 18ga drawing A430-A2 describes steel coiling door - please verify aluminum or steel?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:34 am CDT Answered in Addendum 4</p>													
95	Overhead doors screens	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/19/24					



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	<p>Levi Bauer Sent Sat Mar 30, 2024 at 09:43 am CDT [question from OH door contractor]</p> <p>Q: 83323-3 2.2 F and G what is meant by security screen and insect screen for these doors? Drawing A801-C12 shows a separate security and insect screen (not part of service door). Drawing A801-A12 our intention is to provide the door and installation of associated material provided by the manufacturer of the door. Security screen, bug screen and all sill plate material BY OTHER.</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:13 am CDT Per addendum 5, At the coiling door, provide a black aluminum wire mesh insect screen (18 x 16, .011" diameter wire) installed in a black aluminum.</p> <p>Insect screen to be provided by general trades package and recommend to be provided by glazier</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 11, 2024 at 02:15 pm CDT A: Follow up question to this, the insect screen doesn't have a material callout or an openness or finish or anything of that nature noted in either the drawings or the specification. addendum 4 doesn't provide any additional information in this regard. Can you provide additional information for this screen?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:35 am CDT Answered in Addendum 4</p>													
94	Truss Height	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 09:40 am CDT Drawing A400 section thru - please verify bottom of truss height AFF at lowest point to the south.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:34 am CDT Answered in Addendum 4</p>													
93	Overhead door finish	Closed		None	Springer, Amanda ...	03/30/2024	Levi Bauer	04/04/2024	04/17/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 09:39 am CDT 83613-2 2.2-A-1-c hot dip galvanized called for - This is not available. Standard finish per 2.2-A-2 will be provided</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:35 am CDT Answered in Addendum 4</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sat Mar 30, 2024 at 09:39 am CDT Klinger to clarify if alternate finish is acceptable.</p>													
92	Overhead door electrical	Closed		None	Bauer, Levi (CORE...)	03/30/2024	Levi Bauer	04/04/2024	04/19/24					
	<p>Q: Levi Bauer Sent Sat Mar 30, 2024 at 09:38 am CDT 83613-3 2.3L2 - calls for provide remotes and all wiring. Need verification on remote quantities (per door)? Intense is to provide mechanical installation of doors ONLY, No Electrical. All electrical include low voltage and this work by ELECTRICIAN. Please confirm or present an alternate consideration for start/stop points between trades.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:41 am CDT Electrical bid package shall provide power and final connection for overhead door operators.</p>													



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	<p>Electrical bid package shall provide all conduit, cabling and final connections for the security electronic controls including items required to provide the door remote controls in central control.</p> <p>Detention package via security electronics to supply the security touch screen system and integrate door controls.</p> <p>Electrical bid package to install all field devices supplied by detention package</p>													
91	Substitution Request - Security Automation	Closed		None	Springer, Amanda ...	03/26/2024	Levi Bauer	03/31/2024	04/07/24					
	<p>Levi Bauer Sent Tue Mar 26, 2024 at 08:27 am CDT Please see attached substitution request submitted on behalf of Security Automation Systems Q: S2 Substitution.pdf Hoffman Substitution.pdf Cyber Security Insurance _SAS.pdf Qualifications.docx</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:35 am CDT Approved in Addendum 3</p>													
90	Vesda System and Duct Deectors	Closed		None	Springer, Amanda ...	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	<p>Q: Levi Brooke Sent Fri Mar 22, 2024 at 11:12 am CDT Is the FP contractor to supply the Vesda System and Duct Detectors plus wiring as noted in FP notes?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:52 pm CDT VESDA system complete including any necessary sample piping shall be provided by fire alarm vendor via electrical bid package.</p> <p>Mechanical bid package to provide all backends/adapters as necessary to tie-in dampers to system if required.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:35 am CDT CLARIFY: Duct Detectors and VESDA system are part of the fire alarm system. They are required to be installed. The engineer believes these would be provided/installed by the fire protection/fire alarm subcontractor. Scope assignment is the responsibility of the Construction Manager. Contractors shall coordinate scope assignment with the Construction Manager. (Addendum 3)</p>													
89	Precast Panel Finish	Closed		None	Springer, Amanda ...	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	<p>Levi Brooke Sent Fri Mar 22, 2024 at 09:20 am CDT There are multiple walls called out with a sandblast finish on both sides of the panels. This is an untypical detail as both sides will still not look the same. (Down in form vs top in form faces).</p> <p>Q: Is it the architect's intent for both sides to look exactly the same?</p> <p>Will we be the exposed final finish on the interior of the building?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:37 am CDT See Architect response for RFI 68</p>													
88	Water Management System	Closed		None	Springer, Amanda ...	03/25/2024	Levi Bauer	03/30/2024	04/17/24					
	<p>Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:17 am CDT The written specs (224600-4 thru 8) mention a water management system but the fixtures specified on the schedule are specified with manual hot and cold metering valves which will not work with a Water Management system. The FFD is the only fixture that is specified with an electronic valve that would be compatible with the Water Management system (CVC's).</p>													



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#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
	Is a water management system required for Cu-1,2,3, SV-2 and SV-3 and FFC?													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:32 am CDT Answered in Addendum 4													
87	C8 Flange	Closed		None	Springer, Amanda ...	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:15 am CDT Also in detail 7/S401 at the bottom of the detail it shows that the underside of the C8 flange could be flush with the bottom of the deck just wanted to bring up that the bottom of the deck will not be flush with the bottom of the C8 (see sketch I drew below detail 7) as long as the deck is to extend 'into' the C8 if it had to be flush the deck will have to stop at the edge of the flange and maybe a PL added (by EOR) so that C8 can be mounted to the top of the deck unless C8 can be put attached into a form when concrete is poured? WSS Scan_20240321_172004.pdf													
	A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:38 pm CDT Pick proof caulking to be provided by General Trades via sealant provider.													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:38 am CDT CLARIFY: The metal deck may bear on the bottom flange of the C8. Any gap will need to be filled flush to the end of the C8 flange with pick proof caulking. At the slab edge at the C8 the total thickness of the slab on metal deck may be 7 1/2" thick. (ADD 3)													
86	HSS Framing	Closed		None	Bauer, Levi (CORE...	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:14 am CDT Steel HSS 2 X 2 framing is shown on detail 7/S401 Detail A10/A530 shows additional 3/4" X 3/4" vert bars between the HSS 2 X 2 I assume that we would need to include the 3/4" bars but just want to confirm that they are not part of the detention equipment scope? WSS Scan_20240321_172004.pdf													
	A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:36 pm CDT Confirmed, steel provide via general trades bid package shall provide all mezzanine guardrail components shown on S401/7 and A530/A10.													
85	Rail Bends	Closed		None	Springer, Amanda ...	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:12 am CDT On A5/A530 the detail for the front of the bent checker PL tread shows a return bend at the bottom (circled in orange on attached) Please confirm if the return bend can be eliminated so that front of nosing will be similar to back of tread except it will not be vertical? The return bend seems to me to leave sort of a 'shelf' where something could be hidden which from what I have seen in other jails is something to be avoided? WSS Scan_20240321_184427.pdf													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:38 am CDT CLARIFY: Stair tread to be built as detailed in A5/A530 and 3/S401. Front of tread to be angled (ADD 3)													
84	Rails	Closed		None	Springer, Amanda ...	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:11 am CDT Rails shown on A400 & A431 show the typical 2 line rail with pickets between But on A530 they do not show the pickets going directly to the stringer (I highlighted in yellow where the missing bottom HSS 2 X 2 would go) Please confirm that we should figure a 2 line rail w/ picket infill w/ only the main posts being field welded to the stringers? WSS Scan_20240321_184427.pdf													
	A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:38 am CDT													



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CLARIFY: Build stair railing as detailed in A5 and A7/A530 and structural details 1, 3 and 4/S401. No secondary 2x2 tube steel. The larger details supersede the overall building sections. (ADD 3)														
83	Asphalt Mix Design	Closed		None	Springer, Amanda ...	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	<p>Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:08 am CDT I've attached the details. Will this mix be acceptable or does it have to be a N50 N70 Mix Design.pdf</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:37 am CDT Clarify: N70 mix design is NOT an acceptable substitution for N50 mix design. (Addendum 3)</p>													
82	Interior Bollards	Closed		None	Bauer, Levi (CORE...)	03/25/2024	Levi Bauer	03/30/2024	03/25/24					
	<p>Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:04 am CDT I found a detail for interior bollards per A8/A531 We were not able to locate any interior bollards yet WSS Scan_20240321_182514.pdf</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Mon Mar 25, 2024 at 04:13 pm CDT Refer to A131 keynote 9 and A131 A7 keynote 9. These appear to be located at the inmate showers under the mezzanines (SA1 and SF1)</p>													
81	Bollard Responsibility	Closed		None	Bauer, Levi (CORE...)	03/25/2024	Levi Bauer	03/30/2024	04/07/24					
	<p>Q: Levi Brooke Sent Fri Mar 22, 2024 at 09:02 am CDT Per scope we are to include bollards But per Civil plans C112 & C110 they are a buy out item from Chem Tube (see attached) I think made of plastic ? Please confirm that the 'bollards' would then just be by concrete contractor WSS Scan_20240321_182514.pdf</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:28 pm CDT Bollards to be furnished and installed by site concrete bid package. Bid packages will be revised.</p>													
80	Controls for RTUs	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 03:08 pm CDT I have the following RFI question pertaining to the controls for this project: RTU's 1,2,3,& ERV1 are specified to have packaged controls. Since these are part of the smoke control sequence will these controllers be UL-864 listed for code compliance?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:39 am CDT CLARIFY: RTU's 1,2,3,& ERV1 are specified to have packaged controls. Since this equipment is part of the smoke control sequence, these controllers shall be UL-864 listed for code compliance. (ADD 3)</p>													
79	Precast Questions	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 01:32 pm CDT Specification 03-4500 Precast units General</p>													



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	<p>Section 2.2 - B This section references the PCI Color and Texture Guide to match sample indicated. There is not a plate number listed. Concrete Materials Section 2.8 - C Reference is made to a sample in office of Architect. Is this sample available for viewing? Is there a mix design available? Who made this sample? Form Liners Reference is made to form liner Drawings show exterior finish imparted by form liner. Is there a specific manufacturer and a model number?</p>													
	<p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:24 pm CDT Refer to RFI responses 69, 64, and 14</p>													
	<p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:39 am CDT ADD: Sheet A444 Precast Concrete Panel Patterns. The pattern shall be created using wood boards nailed down in the form bed. (ADD 3)</p>													
78	Precast Hauling Permit	Closed		None	Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024	04/08/24					
	<p>Levi Bauer Sent Thu Mar 21, 2024 at 01:28 pm CDT Precast SCOPE OF WORK Item E Q: We are to include all hauling permits Access to construction site for delivery of precast panels will be on 950th Rd. Is this a city street or a county road and are there over size permits required and at what cost?</p>													
	<p>A: Levi Bauer (CORE Construction - Peoria) Responded Mon Apr 8, 2024 at 08:44 am CDT The west portion of 950th rd is a county road where the deliveries would be coming in Per direction from the county, the county does not require any permits outside of the required state permits. All bid packages shall include all necessary permitting and associated fees.</p>													
77	drywall grid in lieu of stud framing for drywall ceilings.	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 01:08 pm CDT Is it acceptable to request the use of drywall grid in place of stud framing for all GB ceiling systems where applicably noted on the RCP (A200)? Bulkheads would remain stud framing as detailed</p>													
	<p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:45 am CDT REVISE: Gypsum board ceiling systems can use a drywall grid in place of stud framing where applicably noted and detailed. The reflected ceiling plan details on sheet A200 will remain unchanged to show intent/basis of design. All bulkheads and soffits shall be stud framed as shown in the details. (ADD 3)</p>													
76	Payment for stored materials	Closed		None	Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:47 pm CDT 1.6 - Please confirm payment for Stored Materials.</p>													
	<p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:18 pm CDT Confirmed provided they are billed in accordance with 01 2900 - payment procedures. All trade packages shall coordinate with the CM for the timely procurement of materials and avoidance of unnecessary stored material charges.</p>													



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75	Liquidated Damages	Closed		None	Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Levi Bauer Sent Thu Mar 21, 2024 at 12:47 pm CDT</p> <p>Q: Standard Subcontract Agreement references Liquidated Damages, but makes not mention if there any and what they may be or if there is a cap? Please advise.</p> <hr/> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:11 pm CDT Per AIA A133-2019 SFA 6.1.6 provided with addendum 2, Liquidated Damages are not applicable.</p>													
74	Precast panel finish	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Levi Bauer Sent Thu Mar 21, 2024 at 12:46 pm CDT</p> <p>Q: A440 refers to several different types of panels, the majority of which are indicating an architectural sandblast finish (F-1) on BOTH sides of the panel. Without getting into each manufacturer's means and methods, this request is extremely costly and not common to the industry, especially if the interior is painted per Note 4 on A440-A442. The face mix (exterior wythe) is typically different than the back mix (interior wythe), which will result in 2 different actual finishes between the exterior and interior wythes. A smooth-trowel finish (F-2 or F-3) is typical for the interior finish. Please advise the actual intent of Panel Types A, B, D, E and F.</p> <hr/> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:44 am CDT REVISE: The Precast Finish Legend shall be revised as follows. All precast panels on the exterior of the building shall have the following surface finishes. The exterior side of the precast panel will have a steel form finish with a light sandblast. The interior side will have a smooth steel trowel finish. All precast panels located within the building detention area shall have a steel form finish with a light sandblast on one side and a smooth steel trowel finish on the other side. The surface finishes of the two sides of the interior panels do not need to match. (ADD 3)</p>													
73	Precast Bid Package Questions	Closed		None	Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024	04/17/24					
	<p>Levi Bauer Sent Thu Mar 21, 2024 at 12:45 pm CDT</p> <p>Q:</p> <ul style="list-style-type: none"> • 5i.) This item refers to including all of these items, but are we to include the "coordination of" all of these items with these trades? We feel those words are missing from the request. • 5p.) How many electrical conduit, boxes, fixtures and devices is the precast supplier to include? • 5r.) How many embedded items are there to be installed by the precast supplier? • 5x.) How many additional months of brace rental besides the typical one month is to be included with the bid? • 5nn.) With the Site Logistics showing crane and truck pathway around the entire building, what additional crane pads will be needed? Will there be access provided by others and allowed inside the footprint to erect the "common" wall between the jail and sheriff's office? <hr/> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 17, 2024 at 10:43 am CDT 5p.) Refer to RFI 70. all subcontractors shall provide their own quantity surveys</p> <hr/> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Mon Apr 8, 2024 at 08:21 am CDT 5nn.) Access into the footprint of the building will be allowed to erect the interior precast panels. Access points are shown on the site logistics plan. The precast bidder will be responsible for providing, installing, and removing any additional crane pads.</p> <hr/> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 01:08 pm CDT 5i.) correct, this is intended to be coordination of those items. 5p.) refer to RFI 70, CORE is still looking into this. 5r.) precast supplier shall review the structural drawings and determine their own quantity survey.</p>													



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	5x.) Refer to schedule (00 31 13a) included with addendum 1 for sequencing and activity durations. Temporary bracing is required until permanent connections/support are completed including completion of erection structural steel. 5nn.) CORE is reviewing this													
72	Security Electronics Responsibility	Closed		None	Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024	04/17/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:37 pm CDT Section 011200, Letter L, #5, letter "a" states that (the electrical contractor) "This contractor shall furnish and install power, new service, lighting, panels, outlets, devices, feeders, relay panels, inverters, security, and data rough-in, feeders, site lighting, lighting controls, wire mold, power and final connections to devices and equipment supplied by others for a complete electrical scope of work". Does this mean Bid Package #15 is responsible for the installation of all security electronics system equipment?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 17, 2024 at 10:40 am CDT Security electronics will be provided under the detention package. the bid packages will be updated in addendum to clarify what rough-in is required by the electrical bid package.</p>													
71	Fire alarm responsibility	Closed		None	Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:36 pm CDT Section 011200, Letter L, #2, letter "v" lists that the Division 11 bid package is to include section 284600 (Fire Detection and Alarm), but 011200, Letter P, #5, letter "f" states that the Electrical contractor (Bid Package 15) is to "provide a complete fire alarm system....." Which is correct?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 12:50 pm CDT All fire alarm work shall be provided by the electrical bid package. Bid packages shall be corrected.</p>													
70	Conduit/Blocking in Precast	Closed		None	Springer, Amanda ... Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024	04/08/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:30 pm CDT [question from precast bidder] Are the electrical connections cast-in or field mounted? We prefer to have them field mounted, but if they need to be cast-in we can include price for that. Is there a quantity that we can put in our bid? NOTE: Electrician will need to be at our plant during production to assist in electric connection location, but Electricians will not be allowed on our production beds, for Liability reasons. All cast-in electrical connections will need to be properly marked and delivered to the our plant, prior to start of production.</p> <p>E12/A800 and similar. Cast-in wood blocking. we do not recommend this detail, as it promotes warping and cracking. Do we need to include pricing for cast-in wood blocking in our proposal?</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Mon Apr 8, 2024 at 11:06 am CDT The electrician bid package shall include furnishing all cast-in electrical components and installation at the precast providers plant. This has not been an issue for any precast project CORE has provided with cast-in electrical components via other precast providers. If the precast provider takes exception to the electrician being on their production beds, a credit will be requested from the electrical bid package and an add provided to the precast provider prior to the commencement of work.</p> <p>The electrical bid package shall note all electrical boxes on the precast shop drawings.</p> <p>A: The electrical bid package shall have all cast-in electrical fixtures prepared in advance before panel production. The electrical bid package can put the fixtures together in their shop and bring them to the plant for production, or assemble them at the plant at their option. The electrical bid package shall ensure all electrical boxes are completely duct taped and marked on the tape each piece# that they go into. The electrical bid package shall include 5% extra material on hand in during production in the event that during casting some changes have to be made to avoid any interference with other items in the panel. The electrical bid package shall be at the precast plant during production of the panels to inspect them and make sure that the electrical boxes are located correctly in the panel. All electrical materials shall be delivered to the precast plant a couple of days before the production by the electrical bid package.</p> <p>Precast bid package shall furnish and install all cast-in wood blocking as shown.</p>													



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Printed on Fri Apr 19, 2024 at 11:59 am CDT

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	<p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:44 am CDT</p> <p>A: CLARIFY: The electrical rough-in's shall be cast in the precast panels, particularly for items on the exterior of the building and in the jail area. Items in the mechanical/electrical utility spaces may be surface mounted. The Precast Panel manufacturer shall coordinate with the electrical contractor. (ADD 3)</p>													
69	Form Liner Spec	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:29 pm CDT Is there a spec for the type of form liner on the precast panels? I did not see one.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sun Apr 7, 2024 at 12:37 pm CDT precast bid package shall provide all framing, boards, etc. as required to provide specified panel patterns. Bid packages to be revised to this affect</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:44 am CDT ADD: Sheet A444 Precast Concrete Panel Patterns. The pattern shall be created using wood boards nailed down in the form bed (ADD 3)</p>													
68	Precast finish for exterior precast panels	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/07/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:28 pm CDT F6/A440. Steel trowel finish on both sides. Panel exterior will have steel form finish and panel Interior will have Steel trowel finish. We cannot steel trowel the down side (Exterior), as we have to pour it on something.</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:58 am CDT REVISE: All precast panels on the exterior of the building shall the following surface finishes. The exterior side of the precast panel will have a steel form finish with a light sandblast (F-1 as defined in the Precast Finish Legend/A440). REVISE: The panels located entirely within the building interior will have a light sandblast finish (F-1 as defined in the Precast Finish Legend/A440) on one side. The other side of interior precast panels shall have a smooth steel trowel finish (F-2 as Defined in the Precast Flnish Legend/A440) on the other side. ADD: All precast panel surfaces within the detention areas and areas where inmates have access shall have all holes and voids larger than 1/8" filled solid to create a smooth surface free of pitting.</p> <p>Original Response is for RFI 66.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:43 am CDT CLARIFY: The partition designations are on sheet A101. For Partition Types, refer to sheet G130. The exterior precast panels are 12" thick with continuous insulation. The precast panels located entirely within the building have either a solid 8" thickness (Partition Type P8) and 10" thickness with continuous insulation (Partition Type P10). P10 is found around the Exercise Room. Details D4 and F4/A850 have been updated with revised notes. (ADD 3)</p>													
67	Pick Proof Caulk	Open		None	Springer, Amanda ... Bauer, Levi (CORE...)	03/21/2024	Levi Bauer	03/26/2024		Bauer, Levi (CORE...)				
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:26 pm CDT Precast Panel Type P8 and P10 on G130 calls for "Pick Proof Caulk" on Inmate side at top of panel. Is that also required for the vertical panel to panel joints? Is there a spec for that? I asked one of my suppliers and he said Sikadur 51 NS.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:44 am CDT for bidding purposes assume Sikadur 51 NS is acceptable</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Mar 21, 2024 at 12:27 pm CDT Pick proof caulk shall be provided by general trades contractor. Klinger to clarify specification and confirm vertical panel to panel joints require pick proof caulk.</p>													
66	Precast wall sizes	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/04/24					



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	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:25 pm CDT Drawings show 8" solid interior walls, 10" insulated interior walls, and 12" insulated exterior walls. Is that correct? D4/A850 looks like a 10" solid panel.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 04:47 pm CDT Refer to Addendum 3</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:51 am CDT A: CLARIFY: The partition designations are on sheet A101. For Partition Types, refer to sheet G130. The exterior precast panels are 12" thick with continuous insulation. The precast panels located entirely within the building have either a solid 8" thickness (Partition Type P8) and 10" thickness with continuous insulation (Partition Type P10). P10 is found around the Exercise Room. Details D4 and F4/A850 have been updated with revised notes.</p>													
65	Precast Continuous Insulation	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/04/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:24 pm CDT [regarding precast] Continuous insulation. We typically would provide 6" solid at top and bottom of panel and around all openings. Is that acceptable or do we need to price in the continuous insulation?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:43 am CDT CLARIFY: The precast concrete panel manufacturer shall provide continuous insulation in precast walls as detailed in wall sections and to follow the 2018 energy code. (ADD 3)</p>													
64	Precast Mockup/sample	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/17/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:22 pm CDT Precast Spec asks for (2) 4'-0" x 4'-0" samples and (2) 6'-0" x 5'-0" mock-ups, and disposal of all four when the job is complete. Do you require both samples and mockups?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:38 am CDT Answered in Addendum 4</p>													
63	Precast embed material	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/04/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:22 pm CDT I see notes in the precast spec and on the drawings that refer to both stainless steel embeds and galvanized embeds. Which one is required?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:42 am CDT REVISE: All precast embeds shown in details and specifications shall be galvanized. (ADD 3)</p>													
62	precast interior panel finish	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/04/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:21 pm CDT I see notes that show some of the interior precast panels will be sandblast finish on both sides. We can do this, but they will not look the same, as one side is form finish and one side is trowel finish. Is this required?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:42 am CDT See response to RFI 68</p>													
61	Fire/Smoke Dampers	Closed		None	Springer, Amanda ...	03/21/2024	Levi Bauer	03/26/2024	04/04/24					
	<p>Q: Levi Bauer Sent Thu Mar 21, 2024 at 12:15 pm CDT Situation: Sheets M101.A & M101.B show approximately (20) fire-smoke dampers and (12) smoke dampers in Area A & B. I don't see any area smoke detectors or duct smoke detectors associated with the dampers on FP-101. Question: Are duct smoke detectors to be located within 5'-0" of all</p>													



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	fire-smoke and smoke dampers?													
	<p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 04:22 pm CDT A: VESDA system complete including any necessary sample piping shall be provided by fire alarm vendor via electrical bid package.</p> <p>Mechanical bid package to provide all backends/adapters as necessary to tie-in dampers to system if required.</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:41 am CDT CLARIFY: In Area A & B, the fire-smoke dampers and smoke dampers are controlled by the VESDA activated smoke control system and do not require smoke detectors or duct smoke detectors associated with these dampers.</p> <p>A: CLARIFY: Areas of the building where the VESDA activated smoke control system is not sampling, the contractor shall provide area smoke detectors and duct smoke detectors to be utilized and located within 5' of the dampers they serve.</p> <p>ADD 3</p>													
60	Downspout Boot Detail	Closed		None	Springer, Amanda ...	03/20/2024	Levi Bauer	03/25/2024	04/04/24					
	<p>Q: Levi Bauer Sent Wed Mar 20, 2024 at 05:29 pm CDT Can you provide a downspout boot detail? The only detail I'm able to locate is A430/A4 but there's no enlarged detail for the boot connection.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:45 pm CDT The civil bid package shall provide the cast iron downspout boots and all storm pipe leading up to it.</p> <p>The roofing bid package shall provide downspouts and connect to the downspout boot.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:41 am CDT ADD: See clouded Revision #3 in Addendum #3 on Sheet C125 for added downspout boot details. (ADD 3)</p>													
59	Sallyport pedestal mounting	Closed		None	Springer, Amanda ...	03/20/2024	Levi Bauer	03/25/2024	04/04/24					
	<p>Q: Levi Bauer Sent Wed Mar 20, 2024 at 04:31 pm CDT Can you clarify what the mounting detail for the access control pedestals at the sallyports is? Are these just bolted to the sidewalk or do they require a concrete foundation?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:38 pm CDT Site concrete bid package to provide pedestal foundation. Detention Equipment package shall provide and mount pedestal.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:41 am CDT ADD: Detail #9, pedestal detail for the access control pedestal at the vehicle sally port.(ADD 3)</p>													
58	Power to Access Control Pedestals	Closed		None	Springer, Amanda ...	03/20/2024	Levi Bauer	03/25/2024	04/04/24					
	<p>Q: Levi Bauer Sent Wed Mar 20, 2024 at 04:27 pm CDT Can you confirm power is required to the access control pedestals at the sally ports? No power appears to be noted on the electrical site plan E100</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:40 am CDT CLARIFY: The access control pedestals at the vehicle sally port do not require a separate power feed. The power for the camera comes through the Cat 5/6 cable. The intercom does not need power. (ADD 3)</p>													
57	Concrete foundation for do not enter site signage	Closed		None	Springer, Amanda ...	03/20/2024	Levi Bauer	03/25/2024	04/04/24					



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	<p>Q: Levi Bauer Sent Wed Mar 20, 2024 at 04:24 pm CDT Is a concrete foundation or bollard required for the signs noted by site keynote 19 on C110 or is the post directly buried?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:40 am CDT CLARIFY: Signs denoted by keynote 19 on C110 shall be Metal Posts - Type B per Section 729 of the IDOT Standard Specifications for Road & Bridge Construction and driven to a depth of 4.0'. A concrete foundation and/or bollard will not be required. (ADD 3)</p>													
56	Temporary Partitions	Closed		None	Springer, Amanda ...	03/20/2024	Levi Bauer	03/25/2024	04/04/24					
	<p>Q: Levi Bauer Sent Wed Mar 20, 2024 at 10:41 am CDT Can you confirm G130 partition Type T rated and unrated is not applicable for this project?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:39 am CDT REVISE: On sheet G130, Temporary partitions, Type T, are not used on this project. Omit from project (ADD 3)</p>													
55	Substitution Request - Elite Storage Products - Lockers	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 03:33 pm CDT Please see attached substitution request form submitted on behalf of Elite Storage Products Substitution Request - Elite Storage Products - Lockers.pdf</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:53 am CDT ADD 2 approved</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:54 am CDT ADD: Elite Storage Products is an Architect approved manufacturer (ADDENDUM 2)</p>													
54	addendum 1, page 7, paragraph 2.21 Design Professional Compensation	Closed		None	Bauer, Levi (CORE...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 02:26 pm CDT In addendum 1, page 7, paragraph 2.21 Design Professional Compensation. Can you comment more on this language and when you think RFI's, submittals, and inspections are considered to be "multiple" or costs charged back to the sub-contractor or contractor ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:26 pm CDT It appears this question is in regard to the sample subcontract included with addendum 1 (page 17 of the addendum 10)</p> <p>CORE assumes a basic level of competency and industry standard of care from our trade partners when they send in submittals, RFIs, or complete items prior to inspections. It is assumed that (sub)contractors will review the contract documents for pertinent information prior to submitting RFIs and they will provide submittals in accordance with the procedures listed section 01 33 00 Submittal Procedure</p> <p>CORE's intent is to provide support and training as required to comply with the required procedures. Willful negligence or the unwillful inability to correct these issues will result in back charges and will be determined at the sole discretion of the Construction Manager.</p>													
53	Water/Sewer Permits	Closed		None	Bauer, Levi (CORE...	03/19/2024	Levi Bauer	03/24/2024	04/17/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 02:25 pm CDT What permits or tap fees are required for Edgar County with regards to Sewer, Water and Storm Drainage ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 17, 2024 at 10:19 am CDT Tap fee allowance to be moved to civil bid package</p>													



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	<p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 04:41 pm CDT Per direction from the city of Paris, sanitary, water and storm connections have to be made by city crews and they charge charge T&M</p> <p>A: An allowance will be added to the general trade package to address these connections. Civil bid package bidders shall provide all other trade specific permits and coordinate with the authorities having jurisdiction.</p>													
52	Ground Water	Closed		None	Bauer, Levi (CORE...)	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:23 pm CDT In the Geotech report there are discussions regarding ground water. Q: On 6.0, Ground water observations, there is some language that dewatering plans MAY be needed for excavations below 5'. Normally we include simple sump pumps to pump out rain water from excavations.. Do you think the geotech directs us to provide more than that ? Such as well points, underground pumping, etc. ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:10 pm CDT Well points and underground pumping will not be required. Refer to RFI response 41.</p>													
51	As Built Requirements	Closed		None	Bauer, Levi (CORE...)	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:21 pm CDT Regarding the weekly and monthly requirement to provide "as built", can this just be a had written notes on site drawings or do you want more ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:09 pm CDT Refer to section 01 78 39 Project Record Documents for requirements</p>													
50	Bid Extension	Closed		None	Bauer, Levi (CORE...)	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:19 pm CDT CEI has requested a bid extension from 4/2 to 4/5 since Easter is the weekend before and most of our estimators will be gone for the holiday. Please advise if this extension is approved.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:04 pm CDT Bid date was moved to 4/9 via addendum 3.</p>													
49	Planting Soil location	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:15 pm CDT I'm guessing the planting soil is only that around trees and shrubs. Is that correct ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:02 pm CDT see RFI 48 response</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:53 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:51 am CDT CHANGE Details 1 &2/L501 planting soil mix note to to reference specification section 2.10 Planting Soil Mix on plan sheet L001. ADD note "The planting soil mix is only required around trees and shrubs." (ADDENDUM 2)</p>													
48	Planting soil requirements	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 02:11 pm CDT</p>													



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	<p>I noticed on the written specs for landscaping there is a requirement for planting soil. This is also mentioned on the landscape detail pages.. The detail page and the written spec page do not agree on the peat/topsoil ratio. Which one would you like to use ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 03:01 pm CDT Landscaper via general trades bidder shall over dig and provide all planting soil and remove excess spoils</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:53 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:52 am CDT CLARIFY: The planting soil mix shall be in accordance with Specification section 2.10 Planting Soil Mix on plan sheet L001. (ADDENDUM 2)</p>													
47	Coring excavation to install aggregate base at walkways.	Closed		None	Bauer, Levi (CORE...)	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:09 pm CDT On scope item 22: Coring excavation to install aggregate base at walkways.</p> <p>Q: I'm not sure what you mean here. I think we would just install the aggregate base first, then the site concrete package would do the concrete work.</p> <p>Not sure where the coring comes in ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:58 pm CDT Coring refers to excavation for walks around lawn areas, typically the subgrade of lawn areas is higher than what's needed for the walks but the lawn area subgrade is just established with a scraper so you have to come back with a loader and "core" those areas out. The civil package is responsible for their own quantity survey and providing temporary roads.</p> <p>The civil bid package is responsible for establishing all subgrade elevations and providing aggregate base for walks. Provide all excavation necessary if lawn areas surrounding walks have a higher subgrade elevation than the subgrade at lawn areas.</p>													
46	Division 28 Spec	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 02:08 pm CDT In downloading and reviewing the project. There is NO DIVISION 28 Specifications for the Touchscreen Door Control System, Cameras, Video Management System, etc....only Fire alarm.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:55 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:52 am CDT See Addendum 2 for added sheets</p>													
45	Dewatering Treatment	Closed		None	Bauer, Levi (CORE...)	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 02:04 pm CDT When pumping water off site through an NOI permit, does the water have to be clean or treated in any way ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:49 pm CDT Dewatering activities must include appropriate controls as indicated in NPDES Permit ILR10 Refer to page 6 of the attached for additional information. Permit ILR10.pdf</p>													
44	Protecting Graded Areas	Closed		None	Bauer, Levi	03/19/2024	Levi Bauer	03/24/2024	04/04/24					



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					(CORE...									
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:04 pm CDT [regarding 312000 earthwork]</p> <p>Q: 3.18 A & B - Protecting graded areas and reconstructing language. AGAIN, how much of this should be expect ? Can all of this be included through an allowance to be used as needed only ?</p>													
	<p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:47 pm CDT</p> <p>A: Refer to RFI response 44, Damage to graded areas outside the temporary road areas shall be corrected at the expense of the trade package that incurred the damage.</p>													
43	Damaged subgrade due to weather	Closed		None	Bauer, Levi (CORE...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:03 pm CDT [regarding 312000 earthwork]</p> <p>Q: 3.7 E. Reconstruct damaged subgrades caused by weather or others with NO additional compensation. How much and to what extent damage and weather should we expect ?</p>													
	<p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:46 pm CDT</p> <p>A: Repair to damage subgrades will be addressed via the winter conditions and temporary road allowance. Temporary roads will be provided in most subgrade areas and will be needed for construction traffic. Refer to site logistics plan.</p>													
42	Subgrade protection from damage	Closed		None	Bauer, Levi (CORE... Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:02 pm CDT [regarding 312000 earthwork] 3.2 C Protect subgrades from softening, undermining, washout and damage by rain or water. How do you do this ?</p>													
	<p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:56 am CDT</p> <p>A: ADD 2</p>													
	<p>Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:53 am CDT</p> <p>A: CLARIFY: Subgrades shall be protected using BMP's to help protect against undermining and washout damage in the event of a rain event. Excavation shall be maintained so that positive drainage is provided at all times. (ADDENDUM 2)</p>													
41	Dewatering	Closed		None	Bauer, Levi (CORE... Bauer, Levi (CORE...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Levi Brooke Sent Tue Mar 19, 2024 at 02:01 pm CDT [regarding 312000 earthwork] 3.2 Dewatering: We have no idea how much underground dewatering may be needed. This is a large expense with specialty contractors. Can these items be covered by an allowance as needed ?</p>													
	<p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:42 pm CDT</p> <p>A: Major dewatering such as well points will not be required upon review of the geotechnical report. The civil bid package and all other bid packages shall provide dewatering of their excavations with a sump pump.</p>													
40	Subgrade winter protection	Closed		None	Springer,	03/19/2024	Levi Bauer	03/24/2024	04/04/24					



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					Amanda ...									
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 02:00 pm CDT On 312000-3 3.1 C. Protect subgrades from freezing temps... We have 6-7 acres on this site. Not feasible to do this really</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:39 pm CDT Costs associated protecting the subgrade from freezing will be addressed via the winter conditions allowance in the general trades.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:56 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:53 am CDT CLARIFY: For this item, subgrade preparation shall meet Section 301 of the IDOT Standard Specifications for Road & Bridge Construction. (ADDENDUM 2)</p>													
39	Asphalt Pavement markings	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 01:58 pm CDT Will the asphalt contractor need to provide the pavement markings?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:24 pm CDT Pavement markings will be provided by the site concrete bid package per 01 1200 site concrete bid package scope of work item r.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:55 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:53 am CDT CLARIFY: Either the parking lot pavement contractor will need to provide the pavement markings, or a pavement marking subcontractor will need to be consulted. Coordinate bids with Construction Manager. (ADDENDUM 2)</p>													
38	Type E Medallion	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 01:49 pm CDT Type E Medallion sign: our understanding is that the back panel is 48" diameter x ¼" flat aluminum with additional panel of 3/8" (or deeper as required for Halo Lighting) with an etched OR painted detail for the letters and badge/rope); and a third panel, 10" diameter etched state seal; 2 of these required for exterior use.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:46 am CDT CLARIFY: The Type E Medallion sign has the following pieces as shown in the detail. Back panel is 48" diameter x ¼" flat aluminum with additional panel of 3/8" (or deeper as required for Halo Lighting) with an etched OR painted detail for the letters and badge/rope); and a third panel, 10" diameter etched state seal; 2 of these signs required for exterior use. (ADD 3)</p>													
37	Type D Lettering on A540	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 01:47 pm CDT Type D Lettering on A540: listed "quantity" is 24 Characters; however, each of 2 locations as shown on A300 will require 29 letters for a total of 58 letters this type; please confirm 58 letters and NOT 24.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:45 am CDT REVISE: Type D lettering is a total of 58 letters, per building elevations on sheet A300. Type D sign/A540 is revised. (ADD 3)</p>													
36	G101 Tornado Safe Room Sign	Closed		None	Springer, Amanda ...	03/19/2024	Levi Bauer	03/24/2024	04/17/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 01:47 pm CDT G101 Tornado Safe Room Signage: confirm type S4 not used; provide details for ceiling mounting of S5; we plan to price these to match the other interior signs. - ¼" acrylic panels, is that acceptable?</p>													



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	<p>A: Amanda Springer (Klingner & Associates, P.C) Responded Mon Apr 8, 2024 at 07:33 am CDT Answered in Addendum 4</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 3, 2024 at 03:10 pm CDT follow up question, Since the non-tornado signage needs painted braille, does this mean these signs are photopolymer?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:46 am CDT The Tornado Safe Room Signage shall be 1/4" acrylic panels and match the style and color of other interior signs shown on A540. The Tornado Safe Room Signage shall be mounted with foam vinyl tape. (ADD 3)</p>													
35	A010 Monument Sign	Closed		None	Springer, Amanda ... Bauer, Levi (CORE...	03/19/2024	Levi Bauer	03/24/2024	04/04/24					
	<p>Q: Levi Brooke Sent Tue Mar 19, 2024 at 01:45 pm CDT A010 Monument Sign, detail G4 has NO callouts - do you require the medallion or letters as part of the 101400? Or is this outside our scope?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:07 pm CDT Signage as described below shall be provided by general trades</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:45 am CDT ADD: All letters on the monument sign will be 1/2" thick aluminum cut letters with painted black (gloss finish) mounted on concealed pins. The top row of letters on the monument sign will be 6 inch high aluminum, similiar to Sign Type 'C' on sheet A540. The second row of letters will be 4 inch high aluminum, similar to Sign Type 'B' on sheet A540. The seal shall be 1'-8" diameter, 3/8" aluminum with etched (or painted) Seal of Edgar County in black and grayscale tones, similiar to D5/A540. The medallion face shall be satin finish and the edges matte finish. The medallion shall be mounted on concealed standoffs. An updated G4/A010 drawing will be provided in the next addendum. (ADD 3)</p>													
34	Door 135B-1	Closed		None	Springer, Amanda ...	03/16/2024	Levi Bauer	03/21/2024	04/04/24					
	<p>Q: Levi Bauer Sent Sat Mar 16, 2024 at 11:13 am CDT in the hardware spec there is a set 40 that reads it's for door 135B-1 There is not a 135B-1 on the door schedule please confirm no opening 135B-1</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:55 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:51 am CDT Revised: hardware spec section 08 7100 and sheet A800 Opening Schedule included in Addendum 02. (ADDENDUM 2)</p>													
33	Door 103 and 105A	Closed		None	Springer, Amanda ...	03/16/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Q: Levi Bauer Sent Sat Mar 16, 2024 at 11:11 am CDT Door schedule opening 103 reads FEMA but it's not part of the storm shelter and opening 105A is not noted as FEMA but it is part of the storm shelter please confirm 105A is FEMA and 103 is not</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:55 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:50 am CDT REVISE: Door 103 is not a FEMA rated door. REVISE: Door 105A is a rated FEMA Door (ADDENDUM 2)</p>													
32	Exterior Door Opening Material	Open		None	Springer,	03/16/2024	Levi Bauer	03/19/2024			Bauer, Levi			



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					Amanda ...					(CORE...				
	<p>Levi Bauer Sent Sat Mar 16, 2024 at 11:10 am CDT</p> <p>Q: Exterior openings with comment SS frame, should those have a SS door as well or just the frame?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Fri Apr 19, 2024 at 09:43 am CDT for bidding purposes, assume stainless is a stray note</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Wed Apr 17, 2024 at 09:20 am CDT</p> <p>A: Follow up question, the original question appears to be about opening 153, 157, 163, 164, and 169 on A800, addendum 2 removed the note indicating a stainless steel frame was required for these openings. However detail E8 on this sheet calls for stainless steel frames and is listed for quite a few openings in the schedule such as 105A, 114B, 115 etc. can you confirm stainless is just stray note?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 02:05 pm CDT Stainless steel doors and frames to be provided by general trades</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:54 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:50 am CDT REVISE: Exterior openings will be both stainless steel frames and doors. Opening schedule revised on sheet A800.(ADDENDUM 2)</p>													
31	recycle material / Temp roads	Closed		None	Bauer, Levi (CORE...	03/16/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Levi Bauer Sent Sat Mar 16, 2024 at 11:01 am CDT</p> <p>Q: With regards to bid package 4 (civil), Note 8</p> <p>I'm not sure what the material referred to as "recycle"</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:59 pm CDT This is recycled concrete.</p> <p>A: The scope of the temporary roads is going to be revised. The intent is at least 10" of aggregate (either recycled or CA-6) and a fabric separator will be provided at noted areas for temporary roads, staging, and parking. Refer to revised bid packages and revised alternate specification.</p>													
30	topsoil depth	Closed		None	Springer, Amanda ...	03/16/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Levi Bauer Sent Sat Mar 16, 2024 at 10:57 am CDT</p> <p>Q: I cannot see what depth you want the site topsoil installed ?</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:54 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:50 am CDT CLARIFY: Topsoil shall be installed at a minimum depth of 4". (ADDENDUM 2)</p>													
29	Planter Topsoil	Closed		None	Bauer, Levi (CORE...	03/16/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Levi Bauer Sent Sat Mar 16, 2024 at 10:56 am CDT</p> <p>Q:</p>													



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	<p>The civil package includes supplying the planter topsoil. But I do not see who install the planter topsoil Can you clarify ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:39 pm CDT Refer to RFI 28 response</p>													
28	topsoil responsibility	Closed		None	Bauer, Levi (CORE...)	03/16/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Q: Levi Bauer Sent Sat Mar 16, 2024 at 10:56 am CDT Regarding topsoil: It looks like the civil package will place and grade topsoil but the general trades package has landscaping including any soil amendments required. Is this correct ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:41 pm CDT Topsoil depth to be 4" per RFI response 30 from Klinger</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:38 pm CDT Civil bid package shall respread/place new clean topsoil a minimum of 6" to within +/- 0.1' of subgrade at all lawn areas, landscape beds, and islands.</p> <p>A: General trades shall provide all soil preparation including amending soil, providing positive drainage, as well as removal and disposal of all weeds, vegetation and rocks as required. Bid packages will be updated to this effect.</p>													
27	Temp Seeding Responsibility	Closed		None	Bauer, Levi (CORE...)	03/16/2024	Levi Bauer	03/19/2024	04/15/24					
	<p>Q: Levi Bauer Sent Sat Mar 16, 2024 at 10:54 am CDT I see temporary seeding is listed in general trades package and also in the civil package. Which package will be responsible for temp. seeding ?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Mon Apr 15, 2024 at 11:28 am CDT REVISED RESPONSE: Civil package is responsible for temp seeding of site and anywhere disturbed by their installations. General trades will be responsible for temp seeding anywhere disturbed by their activities</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:31 pm CDT A: The civil bid package will be responsible for temp seeding. Bid packages will be updated</p>													
26	clouded area on civil plans	Closed		None	Bauer, Levi (CORE...)	03/16/2024	Levi Bauer	03/19/2024	03/16/24					
	<p>Q: Levi Bauer Sent Sat Mar 16, 2024 at 10:53 am CDT On the east side of the site, I see a clouded area that may be trees. I'm thinking these trees will not be removed and that area will not be graded.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Sat Mar 16, 2024 at 10:53 am CDT Confirmed</p>													
25	Compaction Testing	Closed		None	Bauer, Levi (CORE...)	03/16/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Q: Levi Bauer Sent Sat Mar 16, 2024 at 10:50 am CDT Please clarify who is responsible for the cost of compaction testing</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:30 pm CDT</p>													



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	Per section 31 2100 part 3.17 compaction testing will be provided by the Owner.													
24	Halot-lit signs	Closed		None	Springer, Amanda ...	03/15/2024	Levi Bauer	03/18/2024	04/04/24					
	<p>Levi Bauer Sent Fri Mar 15, 2024 at 09:25 am CDT have attached a few images of layered, halo-lit signs we have done for some school applications. We propose to use a similar technique for this sign, putting the halo element between the star and the back plate "ring". We propose to make the center badge as a circular fabricated cabinet with a polycarbonate face decorated with a translucent vinyl overlay rendering the State of Illinois logo in color (similar to the bullet element in the Williamsville HS sign). I suspect that this alternate fabrication method, if done in aluminum, will be less costly than the steel version specified and shown in the architects' drawing. I have included the proofs for the two example signs so that the architect can get an idea of how we did them.</p> <p>Q: 103447.1.Proof.pdf Williamsville HS.PNG Monticello HS.PNG 103694 - LargeLogo - Proof.pdf</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:46 am CDT CLARIFY: There are no exterior signs made of steel. All exterior signs are made of aluminum. See Sheet A540 for exterior sign information.</p>													
23	etched steel for signage	Closed		None	Springer, Amanda ...	03/15/2024	Levi Bauer	03/18/2024	04/04/24					
	<p>Levi Bauer Sent Fri Mar 15, 2024 at 08:53 am CDT Q: Is there a reason they have specified etched steel? We typically fabricate this sort of signage in aluminum. Would aluminum be acceptable? The foundry we use for etched plaques has size restrictions; pieces must be no larger than 24"-dia.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:54 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:49 am CDT CLARIFY: Aluminum is an acceptable alternate to steel. Detail F5/A540 calls for aluminum. The size of the medallion sign is 4' diameter. Aluminum shall be electrically isolated from other metals to prevent galvanic corrosion. (ADDENDUM 2)</p>													
22	metal panel finish	Closed		None	Springer, Amanda ...	03/15/2024	Levi Bauer	03/18/2024	04/04/24					
	<p>Levi Bauer Sent Fri Mar 15, 2024 at 08:45 am CDT Q: What is the finish of the pre-finished metal paneling upon which the seal is to be mounted? Halo-lighting is most effective on light-colored, textured backgrounds. Smooth or shiny metal backgrounds will result in "hot spots" at the the perimeter of the sign.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:18 pm CDT General trades to bid as shown.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:49 am CDT CLARIFY: The basis of design for the prefinished metal panels is the Petersen Aluminum Corporation Modular AL Metal Wall Panel System. The Pacific Blue Color has a reflectivity of 0.28. Further concerns about "hot spots" caused by lighting should be shared with the Architect for review. (ADD 3)</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Fri Mar 15, 2024 at 08:49 am CDT Per section 07 42 13 part 2.4 A the metal panel system finish is noted below.</p> <p>A: Fluoropolymer Coil Coating System: Polyvinylidene fluoride (PVDF) multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent PVDF resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch; color and gloss as selected by Architect from</p>													



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	manufacturer's standard line. Klinger to clarify concerns about hot spots													
21	medallion illumination	Closed		None	Springer, Amanda ...	03/15/2024	Levi Bauer	03/18/2024	04/04/24					
	<p>Levi Bauer Sent Fri Mar 15, 2024 at 08:44 am CDT</p> <p>Q: The medallion on the outside of the building (see at H10/A300 with details at F5/A540) is specified as etched steel with back-lighting. Please have the architect clarify that they are seeking a halo-lit structure (diagram at F5/A540 does not show location of LED units). Do they understand that the face of the medallion will look black/dark at night since the halo-lighting will overpower any ambient light on the face?</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:18 pm CDT</p> <p>A: General trades bid package to provide all integral and taped lighting for signage. Electrical bid package to provide all unattached lighting for signage such as the ground mounted signage for the monument sign complete.</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:48 am CDT</p> <p>A: CLARIFY: As described in Detail F5/A540, the sign is aluminum. Provide LED tape light, tied to photo sensor, around the perimeter of the back plate ring. (ADD 3)</p>													
20	Monument Sign Construction	Closed		None	Springer, Amanda ...	03/15/2024	Levi Bauer	03/18/2024	04/04/24					
	<p>Levi Bauer Sent Fri Mar 15, 2024 at 08:44 am CDT</p> <p>Q: The signage specifications do not address how the monument is to be constructed. Please have the architect specify (monument cabinet with a vinyl-applied polycarbonate face or a solid aluminum face routed with push-thru or subsurface acrylic/polycarbonate for lettering & medallions, etc).</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 01:14 pm CDT</p> <p>A:</p> <ol style="list-style-type: none"> 1. Precast bid package shall provide the precast monument sign. Install embeds supplied by general trades. Include separate mobilization. 2. General trades shall provide alum letters and seal mounted on concealed standoffs as described in RFI 3 3. General trades shall supply and deliver embeds to concrete and precast bid packages for them to install/cast-in 4. Building Concrete shall provide monument base/curbs/plinths including excavation, backfill, forming, chamfers, joint sealant and install embeds provided by general trades. include additional mobilization to pour curbs/plinths after sign installation <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:48 am CDT</p> <p>A: ADD: The monument sign shall be precast concrete with chamfered corners on both sides. The front face of the monument will have the signage (medallion and letters) facing the public road and be illuminated from ground mounted lights. The front face and sides of the precast panel will be steel form bed finish with a light sandblasting as described on Precast Finish Legend/A440. The back of the precast panel will have a smooth steel trowel finish as described on A440. See structural drawing S002 for detail on foundation and mounting. (ADD 3)</p>													
19	Monument sign single/double sided?	Closed		None	Springer, Amanda ...	03/15/2024	Levi Bauer	03/18/2024	04/04/24					
	<p>Levi Bauer Sent Fri Mar 15, 2024 at 08:43 am CDT</p> <p>Q: If the monument is illuminated, is it to be single or double-sided (graphics on both sides)?</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:47 am CDT</p> <p>A: CLARIFY: The monument sign will have signage on only one side (the road side) and be illuminated with ground mounted lights on the road side of the sign. (ADD 3)</p>													
18	Monument Sign Illumination	Closed		None	Springer, Amanda ...	03/15/2024	Levi Bauer	03/18/2024	04/04/24					
	<p>Levi Bauer Sent Fri Mar 15, 2024 at 08:42 am CDT</p> <p>Q: I see a monument sign at A010. I suspect it is an illuminated piece based on the architectural site plan (appears to show power feed to the unit). Please confirm if this is an illuminated piece</p>													



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	<p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:54 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:49 am CDT CLARIFY: The monument sign will be illuminated with ground mounted lights. (addendum 2)</p>													
14	Precast Panel Form Liners	Closed		None	Springer, Amanda ...	03/14/2024	Levi Bauer	03/17/2024	04/04/24					
	<p>Q: Levi Bauer Sent Thu Mar 14, 2024 at 08:43 am CDT Has there been any decision on the type of form liner that is needed for the exterior finish of some of the precast panels? See F-4 on the precast finish legend</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:48 am CDT REVISE: Precast Finish Legend F3 Form Liner Finish, REVISE note: "See note 4." in lieu of note 5. REVISE: Precast Finish Legend F4 Form Linter Finish, ADD note: "See Sheet A444 Precast Concrete Panel Patterns for more information." ADD: Sheet A444 Precast Concrete Panel Patterns which shows the information on the F4 form liner finish. (ADD 3)</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Mar 14, 2024 at 08:51 am CDT Form liners where intended to be an alternate but there doesn't appear to be anything noted on drawings currently in this regard. Klingner to clarify</p>													
13	Sandblast finish on precast panels	Closed		None	Springer, Amanda ...	03/14/2024	Levi Bauer	03/17/2024	04/04/24					
	<p>Q: Levi Bauer Sent Thu Mar 14, 2024 at 08:38 am CDT Some of the precast panel types on sheet A440 state that the interior face of the panels has a lite sandblast finish labeled F1. See image below. We would not recommend a sandblast finish due to bursting of the cement paste. We would recommend a steel trowel finish on all interior surfaces. Is this acceptable? The precast spec section 2.2 G and H state steel trowel on back surfaces of the panels to have steel trowel precast sandblast panels.png</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:53 am CDT ADD 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:49 am CDT REVISE: Sheet A440 to provide steel trowl finish on interior surfaces of all panels in-lieu of sandblast finish (ADDENDUM 2)</p>													
12	Precast Mix Design	Closed		None	Springer, Amanda ...	03/14/2024	Levi Bauer	03/17/2024	04/04/24					
	<p>Q: Levi Bauer Sent Thu Mar 14, 2024 at 08:33 am CDT Section 03 4500 part 2.8 indicates "Cement: ASTM C150/C150M, Type II - Moderate Portland type" Can this be changed to type III cement? Type III cement provide better stripping strengths for the wall panels. [we] do not recommend type II cement.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:50 am CDT Revise: Specification section 034500 paragraph 2.8.A "Cement ASTM C150/C150M, Type I/II or ASTM C595 Type IL." (ADD 3)</p>													
11	Precast Certification Required?	Closed		None	Springer, Amanda ...	03/12/2024	Levi Bauer	03/15/2024	04/04/24					
	<p>Q: Levi Bauer Sent Tue Mar 12, 2024 at 01:05 pm CDT BP #8 Scope of Work - Precast - Item 5rr. refers to the PCI supplier holding PCI certification levels as indicated in the 34500 Specification; however, the 34500 Spec 1.7 B5 uses a no longer specified A1 category for certification. The categories were changed in October 2021 to a range of AA through AE. Please see attached document and please specify which will be required for this project. PCI-Certification-Statement-for-Industry.pdf</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:49 am CDT Revise: Regarding the Precast/Prestressed Concrete Institute (PCI) Plant Certification, note the following. Specification section 034500 paragraph 1.7.B.5 from "catagory A1 - Architectural Precast Concrete" to "category AD</p>													



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	Architectural Precast Concrete Products" (ADD 3)													
10	Schedule	Closed		None	Bauer, Levi (CORE...	03/12/2024	Levi Bauer	03/15/2024	03/14/24					
	<p>Q: Levi Bauer Sent Tue Mar 12, 2024 at 01:04 pm CDT Schedule - no schedule was included within the Bid Documents, so we assume this will be forthcoming in Addendum?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Mar 14, 2024 at 08:45 am CDT Schedule has been issued with addendum 1</p>													
9	Precast Leave out Panels	Closed		None	Bauer, Levi (CORE...	03/12/2024	Levi Bauer	03/15/2024	04/04/24					
	<p>Q: Levi Bauer Sent Tue Mar 12, 2024 at 01:03 pm CDT BP #8 Scope of Work - Precast - Item 5jj. refers to a Site Logistics Plan that shows leave-out panels and potentially crane roadways, but nothing seems to be included within the Bid Documents</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:52 pm CDT Refer to site logistics plan issued with addendum 1 for where precast panels should be left out. Precast bid package is required to include additional mobilizations for each leave out panel.</p>													
8	Owner Agreement	Closed		None	Bauer, Levi (CORE...	03/12/2024	Levi Bauer	03/15/2024	04/04/24					
	<p>Q: Levi Bauer Sent Tue Mar 12, 2024 at 12:59 pm CDT [assuming] the CM's Subcontract Agreement will reference the CM's Agreement with the Owner, so we would need a redacted copy of that as well to review.</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:51 pm CDT Refer to addendum 2</p>													
7	Sample Subcontract Agreement	Closed		None	Bauer, Levi (CORE...	03/12/2024	Levi Bauer	03/15/2024	03/14/24					
	<p>Q: Levi Bauer Sent Tue Mar 12, 2024 at 12:57 pm CDT Section 00 21 13 - 1.17A states that a copy of the CM's Subcontract Agreement would be available for viewing within the Bid Documents, but there is nothing included. Please include for review</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Mar 14, 2024 at 10:15 am CDT Sample subcontract agreement has been provided with addendum 1</p>													
6	Textura Cost	Closed		None	Bauer, Levi (CORE...	03/12/2024	Levi Bauer	03/15/2024	04/04/24					
	<p>Q: Levi Bauer Sent Tue Mar 12, 2024 at 12:55 pm CDT How much does Oracle-Textura cost?</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:50 pm CDT Refer to sample subcontract issued with addendum 1 (page 46 of addendum) Textura cost are 0.22% of the contract value with a maximum of \$5,000 and a \$100 per Subtier subcontractor.</p> <p>All bid package prime bidders and vendors working directly for CORE shall include Textura in their base bid price and modify it as necessary for any alternates.</p>													
5	Utility structure manufacture	Closed		None	Springer, Amanda ...	03/12/2024	Levi Bauer	03/19/2024	04/04/24					



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	<p>Levi Bauer Sent Tue Mar 12, 2024 at 09:44 am CDT Regarding the storm and sanitary manholes and pre-cast concrete:</p> <p>Q: Can we use a manufacturer who is INDOT approved and has their NPCA certificate ? (National Precast Concrete Association)</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:46 pm CDT Refer to addendum 2</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:51 am CDT A: CLARIFY: For storm and sanitary manholes (pre-cast concrete), manufacturers who are INDOT approved and have their NPCA certificate are acceptable. Manhole structures shall meet the size and materials specified in the plans and specifications.</p> <p>Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:48 am CDT A: CLARIFY: For storm and sanitary manholes (pre-cast concrete), manufacturers who are INDOT approved and have their NPCA certificate are acceptable. Manhole structures shall meet the size and materials specified in the plans and specifications. (ADDENDUM 2)</p>													
4	Soil Stockpile	Closed		None	Bauer, Levi (CORE...)	03/12/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Levi Bauer Sent Tue Mar 12, 2024 at 09:27 am CDT The erosion control plans do not show where we can stockpile topsoil. [Please indicate a location]</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:45 pm CDT location will be established during the kickoff meeting. Civil bid package can assume it'll be onsite.</p>													
3	Soil Corrections Scope	Closed		None	Bauer, Levi (CORE...)	03/12/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Levi Bauer Sent Tue Mar 12, 2024 at 09:25 am CDT I understand the Geotech reports and recommendations are to be included in our pricing for earthwork.</p> <p>Q: After reading the report, I understand the bldg concrete slab, must have a 24" undercut to remove unsuitable soils. In addition, we backfill with either on site lean clay or imported granular. How do we know if on site clay is suitable for this purpose ? I see the liquid limit for most on site soils is above the maximum recommended use of 45% LL. Its tough to price what might or might not work.</p> <p>With regards to the site paving, roads and parking areas, there is a "fat clay" present in the upper portions of this site. We are directed to either rework and rework this material until it passes tests, or use a geogrid support, or use a lime/cement stabilization. The pricing on each of these methods is different and the quantity needed is really a guess at this point. How do we price this ? Could there be a unit price established for this work ?</p> <p>Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:44 pm CDT The civil bid package shall undercut 24" of unsuitable soils to 5' outside the building pad and backfill it with imported granular material to the subgrade elevation. This will be a backfill depth will be 18" deep at the 6" slab, 20" deep at 4" slabs, etc as required to achieve the subgrade elevation.</p> <p>The granular material is needed to act as a work pad that the aggregate piers can be installed on.</p> <p>A: The building concrete bid package will provide the permeant aggregate base over the backfilled aggregate that is installed by the civil contractor prior to slab installation. Regrading and repair of the slab will be addressed via the temporary road maintenance allowance in the civil package.</p> <p>Corrections to unsuitable soils in the site paving areas will be addressed via the lime stabilization allowance in the general trades package.</p> <p>The bid packages will be updated to this effect.</p>													



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 TBD SPRINGFIELD RD
 PARIS, Illinois 61944

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
2	Asphalt lift depths	Closed		None	Springer, Amanda ...	03/12/2024	Levi Bauer	03/19/2024	04/04/24					
	<p>Levi Bauer Sent Tue Mar 12, 2024 at 09:17 am CDT</p> <p>Q: The plans call for the IL-19.0 , N50 (BINDER) to placed in 1 1/2" lifts. The minimum lift thickness for an IL-19.0 mix is 2 1/4". Should we plan on using an IL-9.5 FG level binder instead and placing the binder in two lifts? Or should we figure on using the IL-19.0 mix and placing the binder in a single 3 1/2" lift</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:21 pm CDT Refer to addendum 2</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Fri Mar 29, 2024 at 10:51 am CDT REVISE: IL9.5 & IL9.5FG are acceptable to use for lifts of surface and binder course.</p> <p>A: Amanda Springer (Klingner & Associates, P.C) Responded Thu Mar 21, 2024 at 10:48 am CDT REVISE: IL9.5 & IL9.5FG are acceptable to use for lifts of surface and binder course.</p>													
1	Site Logistics Plan	Closed		None	Bauer, Levi (CORE...)	03/12/2024	Levi Bauer	03/15/2024	04/04/24					
	<p>Levi Bauer Sent Tue Mar 12, 2024 at 09:09 am CDT</p> <p>Q: Provide temp. aggregate roads/laydown/parking areas as noted on site logistics plan. Can you tell me where to find the site logistic plan</p> <p>A: Levi Bauer (CORE Construction - Peoria) Responded Thu Apr 4, 2024 at 12:19 pm CDT Refer to addendum 1</p>													

April 19, 2024

BIDDING ADDENDUM 5

**For work titled:
 Edgar County Jail**

TO ALL BIDDERS

GENERAL NOTES

This addendum is issued for the purpose of clarifying the intent of the contract documents or for making necessary corrections, deletions, and/or additions to the documents on all items of discrepancy raised up to the time of the issuance of this addendum.

Each bidder is hereby instructed and authorized to incorporate into his proposal the instructions contained in this addendum. This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated March 4, 2024. Acknowledge receipt of this addendum in space provided on Bid Form. **FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.**

This addendum consists of eighty-eight (88) pages including this cover sheet.

GENERAL

		CLARIFY: The smoke control dampers and smoke control fans will require UL listed controllers. The Rooftop Units do not need UL listed controllers. The rooftop units are monitored by the smoke control panel so the fire fighters can see if they are operating or not and can turn them off if they want to, but they are not used for controlling smoke.
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PROJECT MANUAL

1	000110 Table of Contents, Division 06 Wood, Plastics, and Composites	REMOVE: Section 061600 is removed from the Table of Contents and not included in the project specifications. The sheathing is specified in section 061000 Rough Carpentry
2	000110 Table of Contents, Division 07 Thermal and Moisture Protection	REVISE: Section 079513 Expansion Joint Cover Assemblies is removed from the Table of Contents and not included in the project specifications. The expansion joint is specified on the drawings.

3	033000 Cast in Place Concrete, 2.10 Liquid Floor Treatment	ADD: 2.10 LIQUID FLOOR TREATMENTS with Water and Chloride Ion Repelling Penetrating Sealer
4	083323 Overhead Coiling Doors, 2.2, G	ADD: At the coiling door, provide a black aluminum wire mesh insect screen (18 x 16, .011" diameter wire) installed in a black aluminum frame.
5	084413 Aluminum Glazed Curtain Wall Systems, 2.2	REVISE: The Curtain Wall Basis of Design shall be EFCO 5500X shall be removed as the Architect's basis of design for the UL Level 3 ballistic rated windows and replaced with the Insulgard TTH600 Thermally broken Bullet Resistant Window System which is the Architect's Basis of Design for the 1-7/8" thick UL Level 3 ballistic glazing.
6	085113 Security Windows	ADD: 085113 Security windows spec section has been added to the project manual.
7	088000 Glazing, 2.8, Spandrel Glass	REVISE: Spandrel glass has been updated in spec to include the spandrel coating on the #4 surface to be Guardian Glass Deco HT Warm Gray.
8	088853 Security Glazing, 2.4	REVISE: In spec section 088853, Security Glazing, paragraph 2.4, Bullet Resistant Transaction Window has been removed. The information is included in section 088113 Security Windows.
9	114000 Food Service Equipment	ADD: Add section 114000 Food Service Equipment CLARIFY: Specifications for Base Bid Phase I Food Service Equipment may be found on Sheet K100.
10	230923 Direct-Digital Control for HVAC, 2.1 A	ADD Siemens Desigo will be allowed as an acceptable manufacturer
11	280500 Common Work Results for Electronic Safety and Security, 1.6	ADD: Cornerstone Detention Products is an approved supplier.
12	284600 Fire Detection and Alarm	CLARIFY: The smoke control dampers and smoke control fans will require UL listed controllers. The Rooftop Units do not need UL listed controllers. The rooftop units are monitored by the smoke control panel so the fire fighters can see if they are operating or not and can turn them off if they want to, but they are not used for controlling smoke.

DRAWINGS

1	G130 Partition Types	CLARIFY: Type 'M' partitions are full height to bottom of deck. M12S is the storm shelter wall. Refer to sheet G130, Partition Types.
2	A101 Annotation Plan	CLARIFY: Within Evidence Processing room #123, the equipment shown on the south wall is labeled on the enlarged plan detail shown on sheet A130 Enlarged Plans, Detail #E6. The equipment is identified in the Detention Equipment Schedule found on sheet A130.
3	A130 Enlarged Plans, Detail C11 AND A131 Enlarged Plans, Detail A7 and E7	CLARIFY: The video visitation monitors shown in these details are identified in the Detention Equipment Schedule as Owner Furnish and Contractor Installed. The Owner is working with a selected vendor for the visitation monitors. Telecom sheets show data outlets required and the architectural plans and interior elevations show locations.
4	A130 Enlarged Plans, Detail C11	REVISE: The deal tray (E021) has been removed from equipment schedule. It is part of the AVT security window and specified in new spec section 085653. REVISE: The package pass (E020) has been moved to the Detention Equipment Schedule.

5	A430 Wall Sections and Details, Detail HS	<p>CLARIFY: The rigid insulation encapsulating the back side and top of the precast concrete walls panels shall be adhered to the precast wall panels. This is typical for all conditions and details.</p> <p>REVISE: The fire treated wood blocking shown on the exterior of the concrete precast wall panels shall be exterior rated. This is typical for all conditions and details. See Section 061000 Rough Carpentry.</p>
6	A900 Finish Schedule & Materials Legend, Detail E8	<p>CLARIFY: The floor slab should be flat at the Onyx shower pans and at the ramp (shown by hatch pattern on sheet A130). Beyond these extents, slope floor per structural to the floor drains near toilets.</p>
7	A500 Exterior Plan Details	<p>CLARIFY: In the plan details, transition flashing is required and noted to seal air barrier to precast panels. No expansion joints or sealant are required where the two materials meet. If it is not feasible to order custom size end panels, a J-channel is acceptable to terminate metal panels at precast. Leave ¼" gap between J-channel and face of precast panel.</p>
8	A531 Detention Equipment & Interior Details, Detail E4	<p>CLARIFY: Detail E4/A531 was updated in Addendum 04. The angles around the CMU walls are welded to the flat steel plates. The ductwork is installed into the opening, but not welded to the steel plates.</p>
9	C120 Utility Plan	<p>CLARIFY The conduits to the lift station are required in order to power or provide backup power to the lift station during a potential outage. This has been updated on Sheet E100 Electrical Site Plan</p> <p>CLARIFY: The conduits shown on C120 are required. This has been updated on Sheet E100 Electrical Site Plan</p> <p>CLARIFY: The routing of the conduit to the monument sign that is shown on Civil sheets C102/C120 are correct. This has been updated on Sheet E100 Electrical Site Plan</p> <p>REVISE: The gas service should be on the east side of the sanitary service per P100 Plumbing Foundation Plan. Civil sheets have been updated to reflect this revision.</p>
10	P101 Plumbing Waste & Vent First Floor Plan - Overall	<p>CLARIFY: As shown on the plans issued for bidding, Holding cells H2 and H3 do not require floor drains.</p>
11	P500 Plumbing Schedules	<p>REVISE: Valves are intended to be electronically controlled and managed by the building water management system. The narrative description on the schedule has been updated from Pneumatic to Electronic to match the model number. Refer to updated P500 issued in Addendum 5.</p>
12	TN000 Telecom General Notes and Legend	<p>CLARIFY: Contractor to coordinate exact installation location of telecom equipment with furniture manufacturer and Architect prior to installation.</p>
13	K100 Food Service Equipment Plan & Schedule- General Food Service Notes	<p>CLARIFY: Addendum 4 explained only the Phase 1 equipment should be included in the base bid. See Addendum #4.</p> <p>CLARIFY: Note #4, All MEP connections for phase 2 FUTURE equipment shall be installed in the base bid.</p>
14	S001 - Stone Column Ground Improvement notes - Add note 8	<p>CLARIFY: Building footings require ground improvement to control settlement. This includes footings F2. Footings F2 only require the ground improvement needed for 1.5 kips per lineal foot net foundation load per the comments. Also see the response in addendum 4 for additional clarification. The foundation loading is net bearing pressure <u>not</u> based on contact pressure (gross bearing pressure).</p>
15	S203 Roof Framing Plan	<p>REVISE: The roof hydrant shown on P400 has a steel angle framing support, see 3/S513. See items shown clouded on sheet S203.</p>

16 E100 Electrical Site Plan	<p>REVISE: At the main entrance on the northwest corner of the building, Add four (4) SF2 site light fixtures on the west wall to illuminate the wall mounted signage. Install light fixtures similar to the north wall.</p> <p>REVISE: The conduits to the monument sign have been updated to coordinate with the C120 Civil Utility Plan.</p> <p>REVISE: Conduits are added to the lift station to coordinate with the C120 Civil Utility Plan.</p>
17 E101 Lighting First Floor Plan - Overall	<p>CLARIFY: Provide two fixtures as indicated on E101.</p>
18 E201 Power First Floor - Overall	<p>REVISE: Added power for door hardware. Refer to updated sheet E301.</p>
19 E302 Equipment Connection Mezzanine Plan - Jail	<p>REVISE: Added power to door operator. Refer to updated sheet E302.</p>

ATTACHMENTS

- HMN Addendum 5 (17 pages)
- Henderson Addendum 5 (21 pages)
- Chastain Addendum 5 (7pages)
- Klingner Addendum 5 (43 pages)

All other terms and conditions of the Project Manual and Drawings shall remain unchanged.

END OF ADDENDUM 5

ADDENDUM NO 5

April 17, 2024

ISSUED BY

Henderson Engineers, Inc.
8345 Lenexa Dr
Lenexa, KS 66214

ISSUED FOR

Edgar County Public Safety Center
12636 950th Road
Paris, IL 61944

NOTICE TO ALL BIDDERS FOR THE

Edgar County Public Safety Center
Paris, IL

You are instructed to read and to note the following described changes, corrections, clarifications, omissions, deletions, additions, approvals, and statements pertinent to the Contract Bid and Construction Documents.

This addendum is part of the Contract Bid and Construction Documents and shall govern in the performance of the Work.

DRAWINGS

Plumbing:

1. SHEET P500 – PLUMBING SCHEDULES
 - A. Revised SV2 & SV3 with electronic valve option.

Electrical:

1. SHEET E100 – ELECTRICAL SITE PLAN
 - a. Added keynote and conduits for future metal building and solar panels.
 - b. Added floor up lights on west side of the building.
2. SHEET E301 – EQUIPMENT CONNECTION FIRST FLOOR PLAN - OVERALL
 - a. Added power for door opener for public lobby room 101.
 - b. Added power for door access control.
3. SHEET E302 – EQUIPMENT CONNECTION MEZZANINE PLAN – JAIL
 - a. Added power for rollup door in exercise room.
4. SHEET E500 – ELECTRICAL ONELINE
 - a. Added note for equipment that was part of generator purchase set.
5. SHEET E502 – PANELBOARD SCHEDULE
 - a. Update panelboard schedule.
6. SHEET E503 – PANELBOARD SCHEDULE
 - a. Update panelboard schedule.
7. SHEET E504 – PANELBOARD SCHEDULE
 - a. Update panelboard schedule.

SPECIFICATIONS

1. Section 220700 Plumbing Insulation
 - A. Revised to add Direct Bury Insulation.

SECTION 262416

PANELBOARDS

PART 1 - GENERAL

1.1 SUMMARY:

- A. This section includes panelboards rated 600 V and less, including the following:
 - 1. Distribution panelboards.
 - 2. Lighting and appliance branch-circuit panelboards.
 - 3. Disconnecting and Overcurrent Protective Devices.
 - 4. Fused Lighting and Appliance Branch-Circuit Panelboards.
 - 5. Surge Protection Devices.
 - 6. Accessory Components and Features.

1.2 DEFINITIONS

- A. NETA ATS: InterNational Electrical Testing Association Acceptance Testing Specification.
- B. SVR: Suppressed voltage rating.
- C. SPD: Surge Protection Device

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- B. Coordinate sizes and locations of concrete bases with actual equipment provided. Concrete, reinforcement, and formwork requirements are specified in Division 03.

1.4 SUBMITTALS

- A. General: Submit the following in accordance with Division 01 and Division 26 Section "General Electrical Requirements".
- B. Product Data: For each type of panelboard, switching and overcurrent protective device, furnished accessories and components. Include dimensions and Manufacturer's technical data on features, performance, electrical characteristics, ratings, weights, furnished options, specialties, accessories, and finishes.
- C. Shop Drawings: For each panelboard and related equipment.
 - 1. Include dimensioned plans, elevations, sections, and details, including required clearances, service space around equipment, and attachments to other work. Show tabulations of installed devices, equipment features, and ratings.
 - a. Tabulate features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
 - 2. Detail enclosure types and details for other than NEMA 250, Type 1.
 - 3. Include general arrangement drawing showing dimensions and weights of each assembled section.
 - 4. Detail bus configuration, current, and voltage ratings, including size and number of bus bars and current rating for each bus. Indicate mains and branches of phase, neutral, and ground buses.
 - 5. Detail short-circuit current rating of panelboard assembly and overcurrent protective devices.
 - 6. Include descriptive documentation of barriers specified for electrical insulation and isolation.
 - 7. Detail utility company's metering provisions with indication of approval by utility company.
 - 8. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.

9. Include time-current coordination curves for each type and rating of overcurrent protective device included in panelboards; include selectable ranges for each type of overcurrent protective device. Submit electronic files, in an SKM-compatible format.
 10. Include schematic and wiring diagrams for power, signal, and control wiring.
 11. Include nameplate legends.
 12. Include list of materials.
- D. Coordination Drawings: Floor plans showing dimensioned layout, required working clearances, and required area above and around panelboards where pipe and ducts are prohibited. Show panelboard layout and relationships between components and adjacent structural and mechanical elements. Show support locations, type of support, and weight on each support. Indicate field measurements.
1. For each equipment room, provide dimensioned layout of the electrical equipment within the space, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved.
 2. Dimensioned concrete base, outline of panelboard sections, conduit entries, and ground rod locations; including equipment working clearances and manufacturer required access space.
 3. Indicate structural members, light fixtures, sprinkler piping and heads, HVAC equipment, ducts and diffusers, plumbing piping and access fittings. Include maintenance access clearances.
 4. Location of structural supports for structure-supported raceways.
 5. Location and clearance of electrical equipment and raceways impacting equipment installation.
- E. Qualification Data: For qualified testing agency.
- F. Field Quality-Control Reports:
1. Test procedures used.
 2. Test results that comply with requirements.
 3. Results of failed tests and corrective action taken to achieve test results that comply with requirements.
- G. Manufacturer's field service report.
- H. Sample Warranty: For warranty.
- I. Project Record Documents: Record actual installed equipment and circuiting arrangements. Record actual routing for underground circuits. Record actual installed location of ground rods.
- J. Panelboard Schedules: Submit final panelboard directories.
- K. Operation and Maintenance Data: For panelboards and components to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
1. Routine maintenance requirements for panelboards and all installed components.
 2. Manufacturer's written instructions for testing and adjusting overcurrent protective devices.
 3. Time-current curves, including selectable ranges for each type of overcurrent protective device that allows adjustments.
 4. Features and operating sequences, both automatic and manual.
 5. Video recording of operation training and demonstration.
- L. Follow-up service reports.

1.5 QUALITY ASSURANCE

- A. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a member company of the InterNational Electrical Testing Association or is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7, and that is acceptable to authorities having jurisdiction.
1. Testing Agency's Field Supervisor: Person currently certified by the InterNational Electrical Testing Association or the National Institute for Certification in Engineering Technologies to supervise on-site testing specified in Part 3.

- B. Test Equipment Suitability and Calibration: Comply with NETA ATS, "Suitability of Test Equipment" and "Test Instrument Calibration."
- C. Source Limitations: Obtain panelboards, overcurrent protective devices, components, and accessories from single source from single manufacturer.
- D. Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
- E. 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.
- F. Comply with NEMA PB 1.
- G. Comply with NFPA 70.

1.6 PROJECT CONDITIONS

- A. Maintain field conditions within manufacturer's required service conditions during and after installation.
- B. Environmental Limitations:
 - 1. Do not deliver or install panelboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above equipment is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
 - 2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:
 - a. Ambient Temperature: Not exceeding 23 deg F (minus 5 deg C) to plus 104 deg F (plus 40 deg C).
 - b. Altitude: Not exceeding 6600 feet (2000 m).
- C. Service Conditions: NEMA PB 1, usual service conditions, as follows:
 - 1. Ambient temperatures within limits specified.
 - 2. Altitude not exceeding 6600 feet (2000 m).

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Coordinate delivery of equipment to allow movement into designated space.
- B. Store in a clean, dry space, protected from weather and so condensation will not form on or in units. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris, and traffic. Handle carefully in accordance with manufacturer's instructions to avoid damage to equipment components, enclosure, and finish. Provide temporary heating according to manufacturer's written instructions.
- C. Handle and prepare panelboards for installation according to NEMA PB 1 and manufacturer's written instructions. Use factory-installed lifting provisions.

1.8 WARRANTY

- A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components and/or products of the panelboards that fail in materials or workmanship within the specified warranty period.
- B. Warranty Period: Three years from date of Substantial Completion.

1.9 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Fuses: Refer to Division 26 section "Fuses" for spare fuse requirements. At a minimum, include spares for the following:
 - a. Primary disconnect fuses.
 - b. Potential transformer fuses.
 - c. Control power fuses.
 - d. Fuses for fusible devices.

2. Indicating Lights: Four of each type installed.
3. Primary Switch Contact Lubricant: One container.
4. Touchup Paint: Two containers of paint matching enclosure finish, each 0.5 pint (250 mL).
5. Enclosure Keys: Two for each enclosure type. All distribution equipment keyed alike.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Manufacturers:
 1. ABB Inc.
 2. Eaton.
 3. Schneider Electric.
 4. Siemens Energy & Automation, Inc.
- B. Enclosures: Flush- or surface-mounted cabinets as noted.
 1. Rated for environmental conditions at installed location.
 - a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
 2. Hinged Front Cover: Entire front trim hinged to box.
 3. Door: Standard door with concealed hinges, within hinged trim cover. Secured with vault-type latch with tumbler lock; keyed alike.
 4. Finishes:
 - a. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - b. Back Boxes: Galvanized steel.
 - c. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
 5. Directory Card: Inside panelboard door, mounted in transparent card holder.
- C. Incoming Mains Location: Top and/or bottom as required.
- D. Buses: Three phase, four wire unless otherwise indicated.
 1. Phase, and Neutral Buses:
 - a. Material:
 - 1) Hard-drawn copper, 98 percent conductivity.
 - b. Size: Ampacity as indicated on drawings, with uniform capacity for entire length of panelboard's sections.
 - 1) Neutral bus: 100 percent of the ampacity of phase buses unless otherwise indicated, equipped with connectors for outgoing circuit neutral cables. Brace bus extensions for busway feeder neutral bus
 2. Ground Bus: Equipped with connectors for feeder and branch-circuit ground conductors. For busway feeders, extend insulated equipment grounding cable to busway ground connection and support cable at intervals in vertical run.
 - a. Material: Hard-drawn copper, 98 percent conductivity
 - b. Size: Minimum-size required by UL 67
 3. General: Provide any available breaker mounting space with bussing.
- E. Line-Side Conductor Connectors (Lugs):
 1. General: Suitable for use with conductor material and sizes. Connections shall comply with requirements of Division 26 Section "Low-Voltage Electrical Power Conductors and Cables".
 2. Material: Same as bus material.
 3. Capacity rating: Same as associated bus.

4. Type: Provide mechanical type unless otherwise indicated on Drawings, refer to schedules and one-line diagram.
 5. Provide properly sized lugs for all equipment, circuit breakers and other electrical devices to accommodate installed conductors. A larger frame, oversized lugs or non-standard product may be required in some instances.
 - a. Pin adapters may be utilized only as allowed by manufacturer and the authority having jurisdiction.
- F. Feed-Through Lugs:
1. General: Suitable for use with conductor material and sizes. Connections shall comply with requirements of Division 26 Section "Low-Voltage Electrical Power Conductors and Cables".
 2. Location: Locate at opposite end of bus from line side lugs or main device.
 3. Material: Same as line side conductor connectors.
 4. Capacity rating: Same as associated bus.
 5. Type: Same as line side conductor connectors.
- G. Subfeed lugs (Double Lugs):
1. General: Suitable for use with conductor material and sizes. Connections shall comply with requirements of Division 26 Section "Low-Voltage Electrical Power Conductors and Cables".
 2. Location: Locate at same end of bus as incoming lugs or main device.
 3. Material: Same as line side conductor connectors.
 4. Capacity rating: Same as associated bus.
 5. Type: Same as line side conductor connectors.
- H. Service Equipment Label: NRTL labeled for use as service equipment for panelboards or load centers with one or more main service disconnecting and overcurrent protective devices.
- I. Future Devices: Mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.
- J. Short-Circuit Current Rating (SCCR):
1. Refer to fault-current and coordination study submittal requirements listed in other parts of this section, in addition to specification section "Overcurrent Protective Device Coordination Study".
 2. Rating value: Rated to withstand symmetrical short-circuit current available at terminals. Panelboards shall be fully-rated, unless series-rated is indicated on the drawings. SCCR shall not be less than the highest AIC rating of any circuit breaker in panelboard.

2.2 DISTRIBUTION PANELBOARDS

- A. Panelboards: NEMA PB 1, power and feeder distribution type.
- B. Doors: For doors more than 36 inches (914 mm) high, provide two latches, keyed alike.
- C. Mains: As indicated on drawings.
- D. Branch Overcurrent Protective Devices:
 1. Connection to bus:
 - a. For Circuit-Breaker Frame Sizes 125 A and Smaller: Bolt-on circuit breakers.
 - b. For Circuit-Breaker Frame Sizes Larger Than 125 A: Bolt-on circuit breakers; plug-in circuit breakers where individual positive-locking device requires mechanical release for removal.
 2. Type: Provide types as indicated on drawings and as defined below.
- E. Device Ratings:
 1. Continuous ampere rating: as indicated on drawings.
 2. Voltage and frequency rating: same as panelboard.
 3. Short-circuit current rating (SCCR): Same as requirements for panelboard.

4. Ampere Interrupting Current (AIC) rating: Rated to interrupt symmetrical short-circuit current available at terminals. Panelboards shall be fully-rated, unless series-rated is indicated on the drawings.

2.3 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. Panelboards: Circuit breaker type: NEMA PB 1, lighting and appliance branch-circuit type.
- B. Mains: As indicated on drawings.
- C. Branch Overcurrent Protective Devices:
 1. Connection to bus: Plug-in circuit breakers, replaceable without disturbing adjacent units.
 2. Type: Provide types as indicated on drawings and as defined below.
- D. Device Ratings:
 1. Continuous ampere rating: as indicated on drawings.
 2. Voltage and frequency rating: same as panelboard.
 3. Short-circuit current rating (SCCR): Same as requirements for panelboard.
 4. Ampere Interrupting Current (AIC) rating: Rated to interrupt symmetrical short-circuit current available at terminals. Panelboards shall be fully-rated, unless series-rated is indicated on the drawings.

2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. Ratings:
 1. Continuous ampere rating: as indicated on drawings.
 2. Voltage and frequency rating: same as panelboard.
 3. Short-circuit current rating (SCCR): Same as requirements for panelboard.
 4. Ampere Interrupting Current (AIC) rating: Rated to interrupt symmetrical short-circuit current available at terminals. Panelboards shall be fully-rated, unless series-rated is indicated on the drawings.
- B. Molded-Case Circuit Breaker (MCCB): Comply with UL 489, with interrupting capacity to meet available fault currents.
 1. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads, and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
 2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
 3. Electronic trip circuit breakers with rms sensing; field-replaceable rating plug or field-replicable electronic trip; and the following field-adjustable settings:
 - a. Instantaneous trip.
 - b. Long- and short-time pickup levels.
 - c. Long- and short-time time adjustments.
 - d. Ground-fault pickup level, time delay, and I^2t response.
 4. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller; let-through ratings less than NEMA FU 1, RK-5.
 5. GFCI Circuit Breakers: Single- and two-pole configurations with Class A ground-fault protection (6-mA trip).
 6. Ground-Fault Equipment Protection (GFEP) Circuit Breakers: Class B ground-fault protection (30-mA trip).
 7. Arc-Fault Circuit Interrupter (AFCI) Circuit Breakers: Comply with UL 1699; 120/240-V, single-pole configuration.
 8. Molded-Case Circuit-Breaker (MCCB) Features and Accessories:
 - a. Standard frame sizes, trip ratings, and number of poles.
 - b. Lugs: Mechanical type unless otherwise indicated on Drawings, suitable for number, size, trip ratings, and conductor materials.

- c. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and high-intensity discharge (HID) lighting circuits.
 - d. Ground-Fault Protection: Relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
 - 1) Mounting: Integral
 - e. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.
 - f. Undervoltage Trip: Set to operate at 35 to 75 percent of rated voltage without intentional time delay.
 - g. Alarm Switch: Single-pole, normally open contact that actuates only when circuit breaker trips.
 - h. Zone-Selective Interlocking: Integral with electronic trip unit; for interlocking ground-fault protection function with other upstream or downstream devices.
 - i. Multipole units enclosed in a single housing or factory assembled to operate as a single unit.
 - j. Handle Clamp: Loose attachment, for holding circuit-breaker handle in on position.
- C. Fused Switch: NEMA KS 1, Type HD; clips to accommodate specified fuses; lockable handle.
 - D. Fuses are specified in Division 26 Section "Fuses."
- 2.5 FUSED LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS (30 TO 400A MAINS)
- A. Basis-of-Design Product: Subject to compliance with requirements, provide comparable products by one of the following, the first listed manufacturer was used as the basis of design:
 - 1. Cooper Bussman Quik Spec Coordination Panelboards type QSCP
 - B. Bus Bars: Shall be tin-plated copper.
 - C. Panelboards: listed to UL 67
 - 1. Provide space behind locking door for a minimum of 6 spaces to store replacement branch circuit fuses.
 - D. Mains:
 - 1. Permanently installed lockout means shall be provided.
 - 2. Quick-make, quick-break type.
 - E. Branch Overcurrent Protective Devices:
 - 1. Device shall have visible circuit ON/OFF indication with colored and international symbol markings
 - 2. Device shall provide open fuse indication via permanently installed neon or LED indicating light.
 - 3. Fuse and disconnect assembly shall be a finger-safe component with trim installed.
 - 4. No special tools shall be required for fuse removal.
 - 5. Devices shall have bolt-on style bus connectors.
 - 6. Device housing shall be clearly marked with device amperage.
 - 7. Permanently installed lockout means shall be provided on the device for lockout tagout procedures. Permanently installed means for locking device in the ON position shall also be provided.
 - 8. Device shall provide fuse amp rating rejection at the following ampacities to ensure continued circuit protection at the specified circuit rating: 15A, 20A, 30A, 40A, 50A, 60A, 70A, 90A & 100A.
 - 9. Branch circuit overcurrent protection shall be 600Vac UL Listed minimum 300kA IR and CSA Certified minimum 200kA IR finger-safe fuse with Class J* performance characteristics. Cooper Bussmann UL class CF CUBEFuse meets this requirement.
 - F. Device Ratings:
 - 1. Continuous ampere rating: as indicated on drawings.

2. Voltage and frequency rating: same as panelboard.
3. Short-circuit current rating (SCCR): Same as requirements for panelboard.
4. Ampere Interrupting Current (AIC) rating: Rated to interrupt symmetrical short-circuit current available at terminals. Panelboards shall be fully-rated, unless series-rated is indicated on the drawings.

2.6 SURGE PROTECTION DEVICES

- A. Provide surge protective devices as required by Division 26 Section "Surge Protective Devices".
- B. Panelboards requiring SPD and the location of the devices shall be as indicated on the Drawings.

2.7 ACCESSORY COMPONENTS AND FEATURES

- A. Accessory Set: Include tools and miscellaneous items required for overcurrent protective device test, inspection, maintenance, and operation.
- B. Portable Test Set: For testing functions of solid-state trip devices without removing from panelboard. Include relay and meter test plugs suitable for testing panelboard meters and switchboard class relays.

2.8 IDENTIFICATION

- A. Nameplates: Nameplates and label products are specified in Division 26 Section "Identification for Electrical Systems."

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine panelboards before installation. Reject equipment that is damaged, or rusted, or have been subjected to water saturation.
- B. Examine areas, surfaces, substrates, and elements to receive panelboards with Installer present, for compliance with requirements for installation tolerances, structural support, ventilation, temperature, humidity, and other conditions affecting performance of the Work.
 1. Verify that field measurements are as indicated.
 2. Verify that manufacturer's written instructions for environmental conditions have been permanently established in spaces where equipment will be installed, before installation begins.
- C. Examine roughing-in of conduits and grounding systems to verify the following:
 1. Wiring entries comply with layout requirements.
 2. Entries are within conduit-entry tolerances specified by manufacturer.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install panelboards and accessories according to NEMA PB 1.1 and manufacturer's instructions.
- B. Coordinate layout and installation of equipment with other construction including conduit, piping, equipment, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- C. Comply with mounting and anchoring requirements specified in Division 26 Section "Seismic Controls for Electrical Systems."
- D. Wall-Mounted Panelboards: Install panelboards on walls with tops at uniform height unless otherwise indicated, and by bolting units to wall or mounting on lightweight structural-steel channels bolted to wall. For panelboards not at walls, provide freestanding racks complying with Division 26 Section "Hangers and Supports for Electrical Systems."
- E. Floor-Mounted Panelboards: Install panelboards on concrete bases.
 1. Concrete Bases: 4 inches (100 mm) high, reinforced, with chamfered edges. Extend base no more than 3 inches (75 mm) in all directions beyond the maximum dimensions of panelboards unless otherwise indicated or unless required for seismic anchor support. Construct concrete bases according to Division 26 Section "Hangers and Supports for Electrical Systems."

2. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch (450-mm) centers around full perimeter of base.
 3. Install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete floor.
 4. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 5. Install anchor bolts to elevations required for proper attachment to panelboards.
 6. Attach panelboards to the vertical finished or structural surface behind the panelboards.
 - F. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from panelboards.
 - G. Mount top of trim 72 inches (1788 mm) above finished floor unless otherwise indicated.
 - H. Mount panelboard cabinet plumb and rigid without distortion of box. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
 - I. Install overcurrent protective devices and controllers not already factory installed.
 - J. Install fuses in fusible devices.
 - K. Install filler plates in unused spaces.
 - L. Stub four 1-inch (27-GRC) empty conduits from panelboard into accessible ceiling space or space designated to be ceiling space in the future. Stub four 1-inch (27-GRC) empty conduits into raised floor space or below slab not on grade.
 1. Empty conduits shall be provided with pull strings.
 2. Cap and label empty conduits for future use.
 - M. Arrange conductors in gutters into groups and bundle and wrap with wire ties.
 - N. Comply with NECA 1.
- 3.3 CONNECTIONS
- A. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."
 - B. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."
 - C. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Install lacing bars and distribution spools for control wiring.
- 3.4 IDENTIFICATION
- A. Equipment Nameplates: Label each contiguous main, or entrance, section with equipment nameplate.
 - B. Device Nameplates: Label each branch circuit device in distribution panelboards with a nameplate.
 - C. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs as specified in Division 26 Section "Identification for Electrical Systems."
 - D. Diagram and Instructions:
 1. Engraved, Laminated Acrylic or Melamine Label. Mount on front of panelboard.
 - a. Operating Instructions: Printed operating instructions for panelboard, including key interlocking, control sequences, elementary single-line diagram, and emergency procedures.
 - E. Warning Labels: Label each panelboard with a warning label in accordance with NFPA 70 and NFPA 70E.
 1. Exception: Do not install NFPA 70 working clearance requirements on flush panelboards and similar equipment in finished spaces.
 - F. Panel Directories

1. Create a directory to indicate installed circuit loads; incorporate Owner's final room designations. Obtain approval before installing. Use a computer or typewriter to create directory; handwritten directories are not acceptable.
2. Note the date the directory was created/updated.
3. Create directory after loads have been balanced to reflect actual as-built conditions.
4. Circuit descriptions shall be per code and shall be distinguishable from all others.

3.5 CLEANING

- A. After completing equipment installation and before energizing, inspect unit components. Vacuum dirt and debris from interior of equipment; do not use compressed air to assist in cleaning. Remove paint splatters and other spots. Repair exposed surfaces to match original finish.

3.6 PROTECTION

- A. Temporary Heating: Apply temporary heat to maintain temperature according to manufacturer's written instructions.

3.7 ADJUSTING

- A. Adjust moving parts and operable component to function smoothly, and lubricate as recommended by manufacturer.
- B. Set field-adjustable circuit-breaker trip ranges as specified in Division 26 Section "Overcurrent Protective Device Coordination Study."

3.8 FIELD QUALITY CONTROL

- A. Testing: Perform the following field quality-control tests and inspections:
 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, to assist in testing, and to assist in adjusting device settings.
- B. Acceptance Testing Preparation:
 1. After installing equipment but before equipment is energized, test for compliance with requirements.
 2. Verify that grounding system at the equipment tested at the specified value or less.
 3. Test insulation resistance for each bus, component, connecting supply, feeder, and control circuit.
 4. Test continuity of each circuit.
- C. Tests and Inspections:
 1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters. After electrical circuitry has been energized, test for compliance with requirements.
 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
 3. Test and adjust controls, remote monitoring, and safeties. Replace damaged and malfunctioning controls and equipment.
 4. Report results of tests and inspections in writing. Record adjustable settings and measured insulation resistances. Attach a label or tag to each tested component indicating satisfactory completion of tests.
- D. Assist in field commissioning of equipment including pretesting and adjusting of equipment and components.
- E. Infrared Scanning: Perform the following infrared scan tests and inspections and prepare reports:
 1. Initial Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each panelboard. Remove front panels so joints and connections are accessible to portable scanner.
 2. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan of each panelboard 11 months after date of Substantial Completion.

3. Instruments and Equipment: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
- F. Voltage Monitoring and Adjusting: After Substantial Completion, if requested by Owner, but not more than six months after Final Acceptance, perform the following voltage monitoring:
1. During a period of normal load cycles as evaluated by Owner, perform seven days of three-phase voltage recording at the main incoming section of each service entrance panelboard. Use voltmeters with calibration traceable to the National Institute of Science and Technology standards. Voltage unbalance greater than 1 percent between phases, or deviation of any phase voltage from the nominal value by more than plus or minus 5 percent during the test period, is unacceptable.
 2. Corrective Action: If test results are unacceptable, perform the following corrective action, as appropriate:
 - a. Rebalance loads.
 - b. Prepare written request for voltage adjustment by electric utility in accordance with Division 26 section "Provisions for Electric Utility Service".
 3. Retests: Repeat monitoring, after corrective action has been performed, until satisfactory results are obtained.
- G. Panelboards will be considered defective if they do not pass tests and inspections.
- H. Prepare test and inspection reports, including a certified report that identifies panelboards included and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.
- 3.9 DEMONSTRATION
- A. Train Owner's maintenance personnel to adjust, operate, and maintain panelboards, overcurrent protective devices, instrumentation, and accessories.
 - B. Video record demonstrations presentation for Owner's records.

END OF SECTION 262416

- ELECTRICAL PLAN NOTES:**
- E12 PROVIDE (3) 1" CONDUITS TO MONUMENT FOR POWER, LIGHTING AND DATA. COORDINATE LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
 - E14 HANDHOLE PROVIDED BY OTHERS. SHOWN FOR REFERENCE ONLY.
 - E17 PROVIDE 2" CONDUITS FROM TELECOM HANDHOLE TO IT SERVER ROOM. COORDINATE FINAL LOCATION WITH DATA PRIOR TO ROUGH-IN.
 - E18 FLOODLIGHT FOR MONUMENT SIGN.
 - E19 PROVIDE [865-9312 SP2-2M8 PIPE CLAMP, DOUBLE] FOR FLAG POLE LIGHT(S).
 - E20 POWER FOR JACKET HEATER IN THE GENERATOR.
 - E21 POWER FOR LUBE OIL HEATER AND CONTROL ANTI-CONDENSATION HEATER IN THE GENERATOR.
 - E22 POWER FOR BATTERY CHARGER IN THE GENERATOR.
 - E29 PROVIDE HARD WIRED CONNECTION TO BACKLIT MEDALLION SIGN. PROVIDE LOCAL NEMA 3R DISCONNECTING MEANS FOR SIGNAGE. CONFIRM CONNECTION TYPE WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. CIRCUIT AND PROVIDE RELAY AS SHOWN. PROVIDE U2 LIGHT FIXTURE FOR BACK LIGHT WITHIN MEDALLION SIGN.
 - E30 LOCAL DISCONNECTING MEANS FOR LIFT STATION. LIFT STATION PROVIDED WITH (2) PUMPS BY OTHERS. CONFIRM CONNECTION TYPE WITH APPROVED EQUIPMENT PRIOR TO ROUGH-IN.
 - E33 PROVIDE 2" CONDUITS FOR POWER TO FUTURE METAL BUILDING AND SOLAR PANELS. REFER TO CIVIL PLANS FOR CONDUIT ROUTE AND TERMINATION LOCATION ON SITE.
 - E34 PROVIDE 2" CONDUITS FOR DATA TO FUTURE METAL BUILDING AND SOLAR PANELS. REFER TO CIVIL PLANS FOR CONDUIT ROUTE AND TERMINATION LOCATION ON SITE.
 - E35 ROUTE 2" CONDUITS TO MAIN ELECTRICAL ROOM.
 - E36 PROVIDE 2" CONDUITS TO SERVER ROOM 134.
 - E37 PROVIDE 2" CONDUIT FOR POWER TO MONUMENT SIGN. ONE FOR SIGN AND ONE FOR LIGHTING. REFER TO CIVIL PLANS FOR CONDUIT ROUTE AND TERMINATION LOCATION ON SITE.
 - E38 PROVIDE 1" CONDUIT FOR DATA TO MONUMENT SIGN. REFER TO CIVIL PLANS FOR CONDUIT ROUTE AND TERMINATION LOCATION ON SITE.
 - E39 PROPOSED UTILITY TRANSFORMER LOCATION.
 - E40 PROPOSED UNDERGROUND ROUTE FOR SECONDARIES TO BUILDING SERVICE.

2 ENLARGED UTILITY TRANSFORMER AND GENERATOR
3/32" = 1'-0"

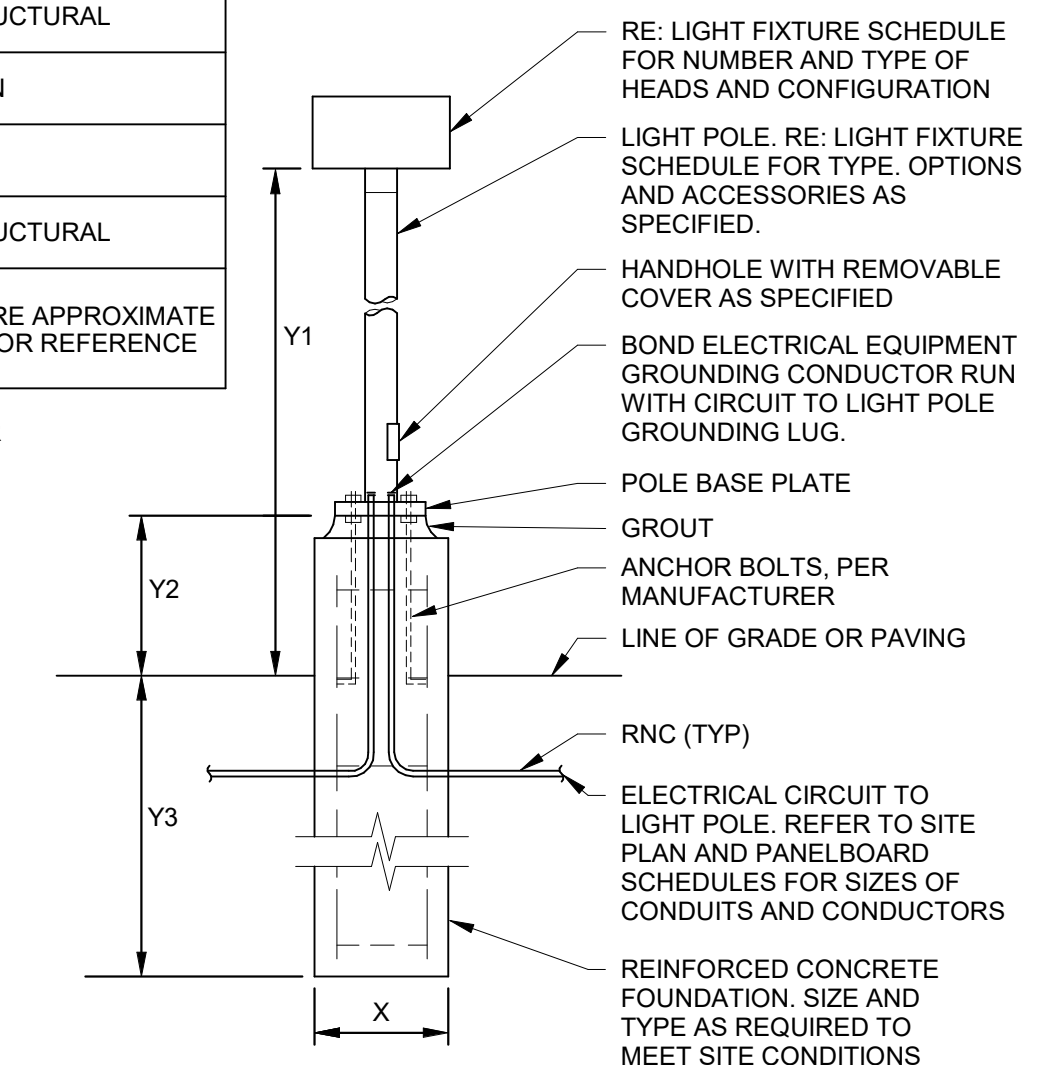
3 ELECTRICAL SITE PLAN - SEWAGE GRINDER
1/4" = 1'-0"

TABLE OF DIMENSIONS*

X	REFER TO STRUCTURAL
Y1	REFER TO PLAN
Y2	2'-6"
Y3	REFER TO STRUCTURAL

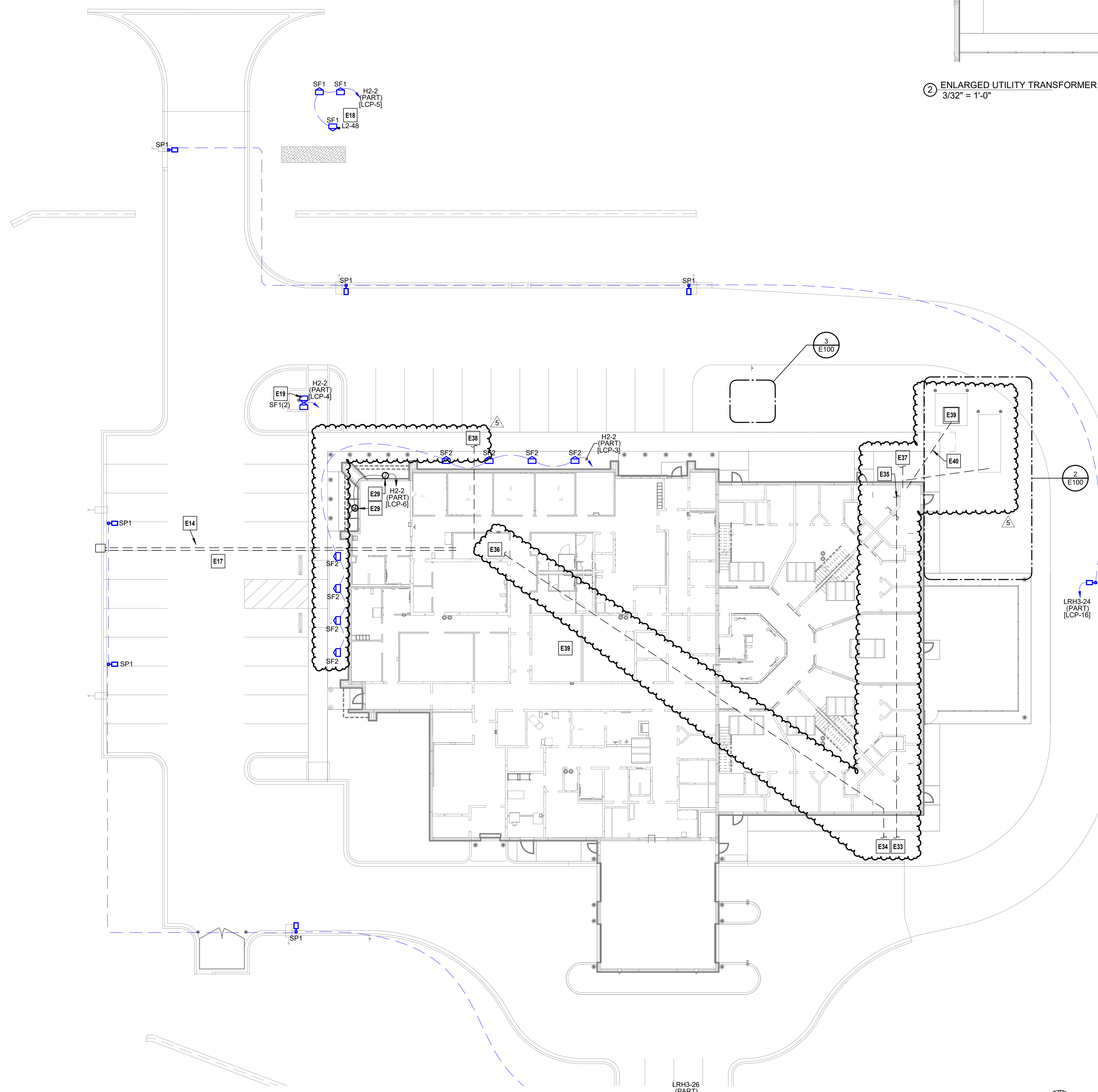
* NOTE:
ALL DIMENSIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.

REFERENCE CIVIL OR STRUCTURAL DRAWINGS FOR FOUNDATION DETAILS.



4 POLE BASE DETAIL
NTS

1 ELECTRICAL SITE PLAN
1/16" = 1'-0"





1 EQUIPMENT CONNECTION FIRST FLOOR PLAN - OVERALL
1/8" = 1'-0"

ELECTRICAL PLAN NOTES:

- E5 POWER THROUGH ASSOCIATED CONDENSING UNIT LOCATED ON ROOF. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INTERCONNECTING POWER AND SIGNAL WIRING PER MANUFACTURER'S REQUIREMENT.
- E32 LAND POWER AT THRU-DOOR DISCONNECT PROVIDED INSIDE CONTROL PANEL.
- E41 POWER FOR DOOR OPERATOR.
- E42 POWER FOR DOOR ACCESS CONTROL.
- EP5 PROVIDE HARDWIRED CONNECTION TO PLUMBING VALVE CONTROL TRANSFORMER. DIVISION 26 CONTRACTOR SHALL ROUTE CONTROL FROM EACH CVC (CELL VALVE CONTROLLER) BACK TO THE CENTRAL WMS SERVER (WASTEWATER MANAGEMENT) LOCATED IN CONTROL ROOM 159. REFER TO PLUMBING PLANS FOR CONTROLLED FIXTURES. COORDINATE ALL REQUIREMENTS WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. COORDINATE WITH ENGINEER ANY DISCREPANCIES.
- EP9 HEAT TRACE SYSTEM SHALL BE ROUTED AND CONTROLLED VIA HEAT TRACE CONTROL PANEL. CONFIRM CONTROL WITH MANUFACTURER AND APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.
- EO1 EQUIPMENT DISCONNECT FURNISHED INTEGRAL FROM MANUFACTURER.



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Issue	Date
2 Addendum #2	03/20/2024
3 Addendum #3	03/27/2024
4 Addendum #4	04/03/2024
5 Addendum #5	04/18/2024

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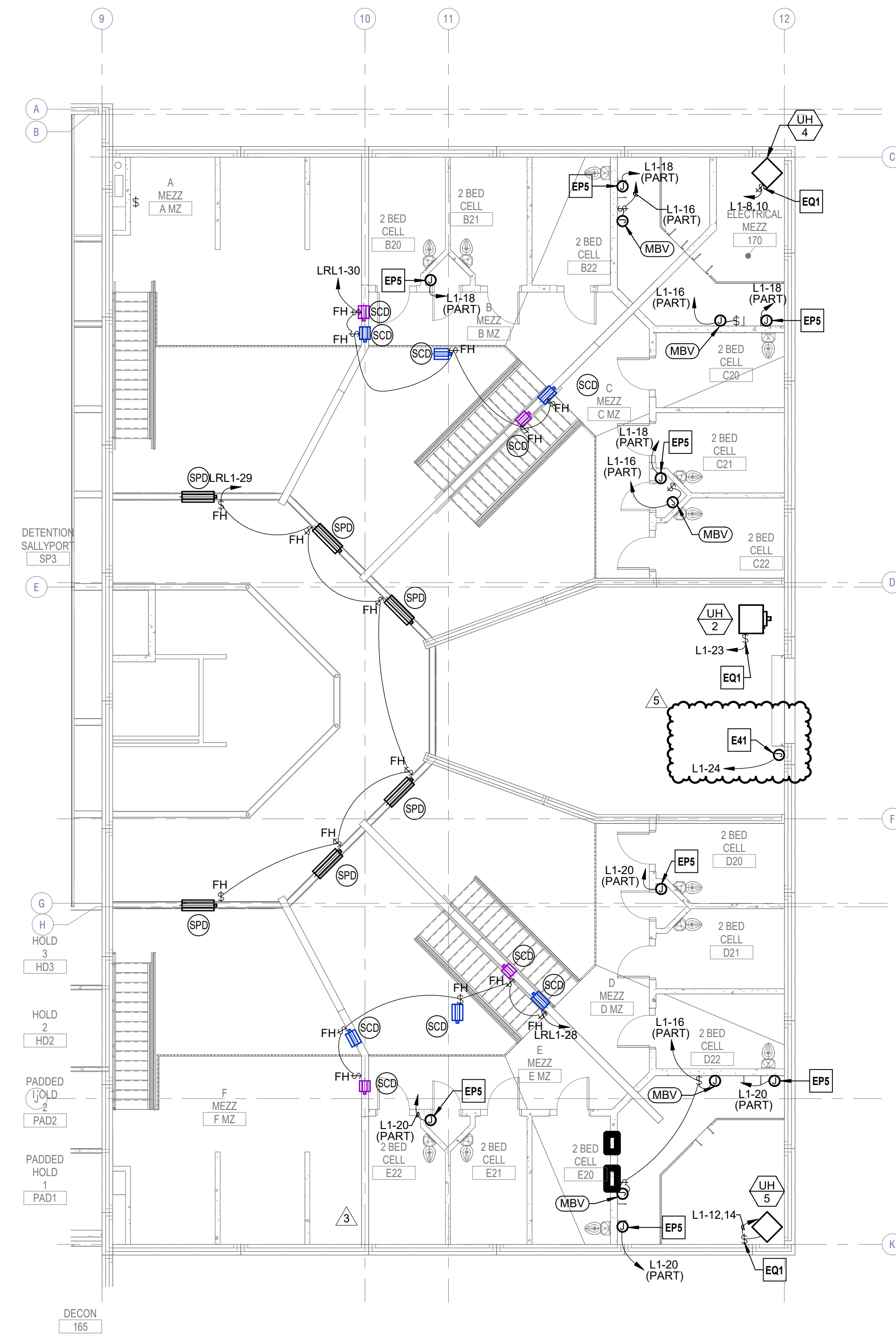
Architect's Name
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Date: 03/01/2024

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EQUIPMENT CONNECTION FIRST FLOOR PLAN - OVERALL

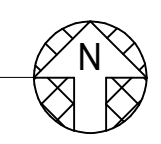
E301

MICHAEL T. DERWATER

ELECTRICAL PLAN NOTES:
 E41 POWER FOR DOOR OPERATOR.
 EP5 PROVIDE HARDWIRED CONNECTION TO PLUMBING VALVE CONTROL TRANSFORMER. DIVISION 26 CONTRACTOR SHALL ROUTE CONTROL FROM EACH CVC (CELL VALVE CONTROLLERS) BACK TO THE CENTRAL WMS SERVER (WASTER WATER MANAGEMENT) LOCATED IN CONTROL ROOM 159. REFER TO PLUMBING PLANS FOR CONTROLLED FIXTURES. COORDINATE ALL REQUIREMENTS WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. COORDINATE WITH ENGINEER ANY DISCREPANCIES.
 EQ1 EQUIPMENT DISCONNECT FURNISHED INTEGRAL FROM MANUFACTURER.



1 EQUIPMENT CONNECTION MEZZANINE PLAN - JAIL
 1/8" = 1'-0"



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Date	Issue	Date
03/01/2024	3 Addendum #3	03/27/2024
	5 Addendum #5	04/18/2024

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04/18/2024

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EQUIPMENT CONNECTION MEZZANINE PLAN - JAIL

E302

MICHAEL T. DERMER

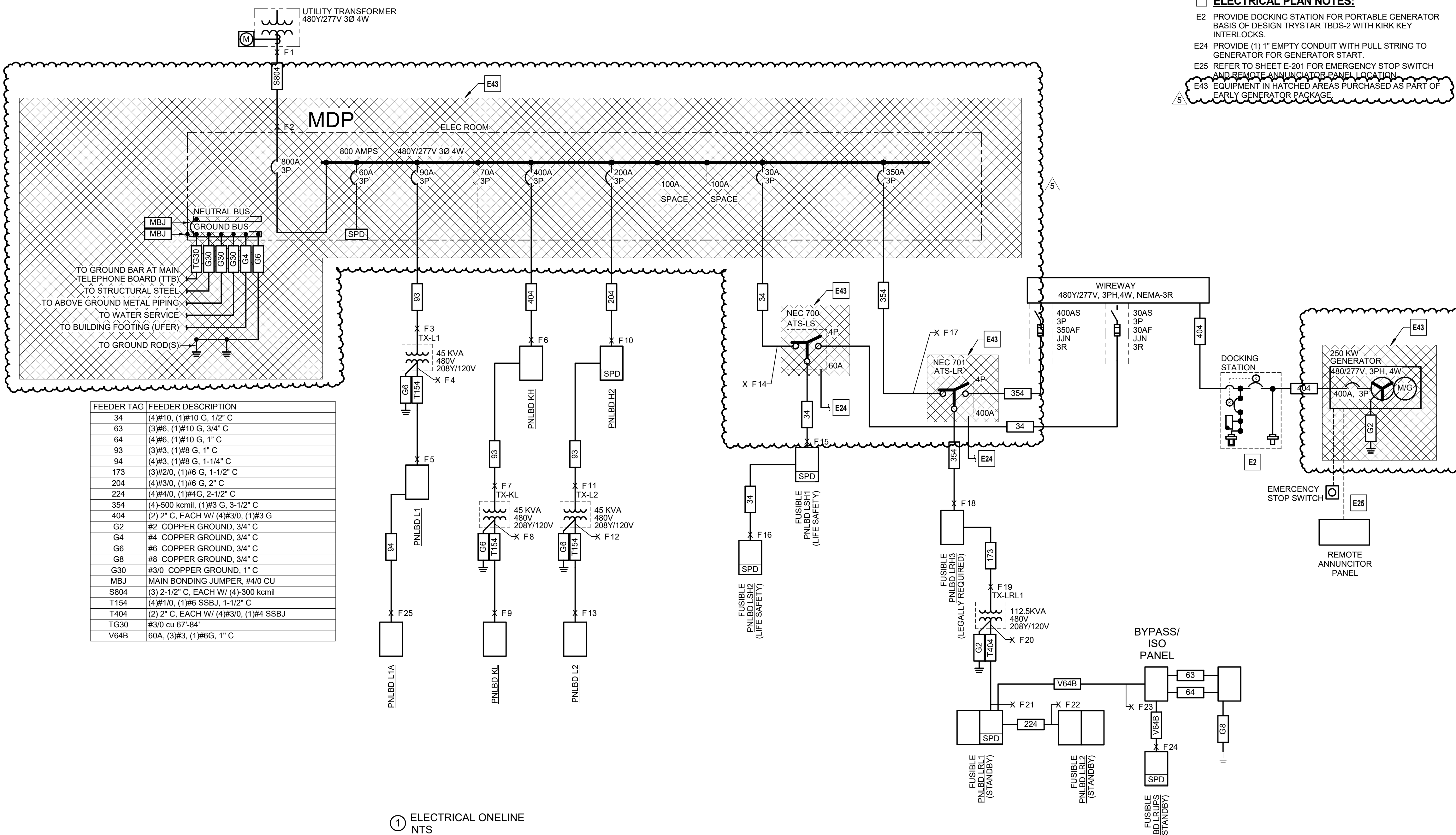
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- ELECTRICAL PLAN NOTES:**
- E2 PROVIDE DOCKING STATION FOR PORTABLE GENERATOR BASIS OF DESIGN TRY-SAVE-TWO WITH BIRK KEY INTERLOCKS.
 - E24 PROVIDE (1) 1" EMPTY CONDUIT WITH PULL STRING TO GENERATOR FOR GENERATOR START.
 - E25 REFER TO SHEET E-201 FOR EMERGENCY STOP SWITCH AND REMOTE ANNUNCIATOR PANEL LOCATION.
 - E43 EQUIPMENT IN HATCHED AREAS PURCHASED AS PART OF EARLY GENERATOR PACKAGE.

- ONE-LINE DIAGRAM GENERAL NOTES:**
- THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS SCHEDULE IS SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
 - REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE ON THIS SHEET. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AISC/RATINGS OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
 - FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATIONS.
 - FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES.
 - BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.
 - PROVIDE A PERMANENT LABEL ON FRONT OF EQUIPMENT ENCLOSURE; REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS):
SERVICE EQUIPMENT LABEL:
EXAMPLE:
208Y/120V, 60HZ
800A
SCCR = 65,000A
MAX AVAILABLE FAULT CURRENT = 58,815A
CALCULATED: 01/01/2018
PANELBOARD/SWITCHBOARD LABEL:
LINE 1: TRANSFORMER " " SUPPLIED BY UPSTREAM
LINE 2: PANELBOARD/SWITCHBOARD " "
LINE 3: LOCATED IN " "
LINE 4: PANELBOARD " " SUPPLIES DOWNSTREAM
LINE 5: PANELBOARD(S) " "
TRANSFORMERS LABEL:
LINE 1: TRANSFORMER " " SUPPLIED BY UPSTREAM
LINE 2: PANELBOARD/SWITCHBOARD " "
LINE 3: LOCATED IN " "
LINE 4: TRANSFORMER " " SUPPLIES DOWNSTREAM
LINE 5: PANELBOARD(S) " "

- ELECTRICAL UTILITY CONTACT NOTE:**
- UTILITY COMPANY: ENERSTAR
UTILITY CONTACT: [???] [???] [???]
PHONE: [???] [???] [???]
EMAIL: [???] [???] [???]
- FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE):**
- THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY POINT OF SERVICE COULD NOT BE DETERMINED AT THE TIME OF THIS SUBMITTAL. THE ESTIMATED WORST CASE VALUE OF 17,183A IS BASED ON AN INFINITE BUS CALCULATION AT THE UTILITY TRANSFORMER. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS ESTIMATED CALCULATED VALUE. ESTIMATED DESIGN VALUE IS BASED ON THE FOLLOWING:
UTILITY TRANSFORMER SECONDARY VOLTAGE: 480Y/277V, 30, 4W
UTILITY TRANSFORMER SIZE: 800 2-3.5%
- OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY GENERAL NOTE:**
- CONTRACTOR SHALL PROVIDE AN OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY TO DETERMINE THE CORRECT SETTINGS FOR THE ADJUSTABLE TRIP CIRCUIT BREAKERS. TO ENSURE SELECTIVE COORDINATION AND TO DOCUMENT ARC-FLASH HAZARDS, CODE REQUIRED EMERGENCY AND LEGALLY REQUIRED STANDBY SYSTEMS SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES (APPLIES TO BOTH THE NORMAL AND EMERGENCY POWER SOURCES). PROVIDE ALL NECESSARY AS-BUILT INFORMATION REQUIRED FOR COMPLETION OF THE STUDY TO THE ENGINEER DOING THE STUDY. PROVIDE SUBMITTALS INDICATED WITHIN THE SPECIFICATIONS TO OWNER AND ARCHITECT/ENGINEER TO CONFIRM STUDY HAS BEEN COMPLETED. CONTRACTOR SHALL INCLUDE THE COST FOR THIS WORK IN THEIR BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS:**
- GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
 - PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT. CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. A LARGER FRAME, OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHJ.
 - PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH BUSSING.
 - PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

FEEDER TAG	FEEDER DESCRIPTION
34	(4) #10, (1) #10 G, 1/2" C
83	(3) #6, (1) #10 G, 3/4" C
84	(4) #6, (1) #10 G, 1" C
93	(3) #3, (1) #8 G, 1" C
94	(4) #3, (1) #8 G, 1-1/4" C
173	(3) #20, (1) #6 G, 1-1/2" C
204	(4) #20, (1) #6 G, 2" C
224	(4) #40, (1) #4G, 2-1/2" C
354	(4) 500 kcmil, (1) #3 G, 3-1/2" C
404	(2) 2" C, EACH W/ (4) #3/0, (1) #3 G
G2	#2 COPPER GROUND, 3/4" C
G4	#4 COPPER GROUND, 3/4" C
G6	#6 COPPER GROUND, 3/4" C
G8	#8 COPPER GROUND, 3/4" C
G30	#30 COPPER GROUND, 1" C
MB1	MAIN BONDING JUMPER, 840 CU
SR04	(3) 2-1/2" C, EACH W/ (4) 300 kcmil
T154	(4) #1/0, (1) #6 SSBJ, 1-1/2" C
T404	(2) 2" C, EACH W/ (4) #3/0, (1) #4 SSBJ
TG30	#30 CU 67-84"
V64B	60A, (3) #3, (1) #6G, 1" C

1 ELECTRICAL ONE-LINE DIAGRAM

Short-Circuit and Voltage Drop Calculations

Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance.

The following calculations are based on the "Point-to-Point" method where:
ISC (1) = short circuit current at fault point 1
ISC (2) = short circuit current at fault point 2

$E =$ Line to line volts
 $IP =$ Primary short circuit current
 $Vp =$ Primary voltage
 $IPs =$ Secondary short circuit current
 $Vs =$ Secondary voltage
 $L =$ Length of circuit
 $C = "C" Factor from Bussman table where "C" = 1 / impedance per linear foot$
Feeder Types: NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer

System Voltage: 480Y/277V - 3 phase

Fault Point (FP)	Bus/Feeder Description	Source (Fault Point)	Phase	Source Isc (amps)	Conduit Type/ TX	Material	Feeder Quantity of Parallel Sets and Bus/Phase & Neutral Size	Conductor 'C' Value	Busway 'C' Value	L-L Voltage (V)	Circuit Length (ft)	Load Power Factor (pf)	Circuit Load (Amperage)	Conductor Resistance (R)	Conductor Reactance (X)	Arccos (pf)	Type	Degree Rise	kVA	Transformer New Xfmr Z	Existing Xfmr Z	Secondary Voltage	Tap Setting	f	M	Fault Current (amps)	Voltage Drop (V/D)	Cumulative Voltage Drop (%D)	Fault Point (FP)	
1	Utility Service Point			17,183			at the secondary of the utility transformer																						1	
2	TO MDP	1	3	20,063	NM	CU	4 Sets(s) of 350 kcmil	22737	--	480	40	0.9	960	0.00038	0.00040	0.451027									0.032	0.97	19,444	-0.18%	-0.18%	2
3	TO TX-L1 PRIMARY	2	3	19,444	M	CU	1 Set(s) of 3 AWG	4774	--	480	10	0.7	72	0.000250	0.00059	0.795399									0.147	0.87	16,952	-0.06%	-0.24%	3
4	TX-L1 SECONDARY	3	3	16,952	TX					480							DOE	150	45	3.51				208	10,993	0.08	3,262	-0.24%	-0.24%	4
5	TO PANELBOARD L1	4	3	3,262	M	CU	1 Set(s) of 10 AWG	8925	--	208	10	0.7	120	0.000120	0.00055	0.795399									0.030	0.97	3,166	-0.12%	-0.38%	5
6	TO KH	2	3	19,444	NM	CU	2 Set(s) of 30 AWG	13923	--	480	175	0.9	320	0.00077	0.00042	0.451027									0.441	0.89	13,494	-0.89%	-1.06%	6
7	TO TX-KL PRIMARY	6	3	13,494	M	CU	1 Set(s) of 3 AWG	4774	--	480	10	0.7	72	0.000250	0.00059	0.795399									0.102	0.91	12,245	-0.06%	-1.12%	7
8	TX-KL SECONDARY	7	3	12,245	TX					480							DOE	150	45	3.51				208	7,940	0.11	3,161	-0.12%	-1.12%	8
9	TO PANELBOARD KL	8	3	3,161	M	CU	1 Set(s) of 10 AWG	8925	--	208	10	0.7	120	0.000120	0.00055	0.795399									0.029	0.97	3,070	-0.12%	-1.24%	9
10	TO H2	2	3	19,444	M	CU	1 Set(s) of 10 AWG	12844	--	480	95	0.9	160	0.00079	0.00052	0.451027									0.519	0.68	12,801	-0.51%	-0.69%	10
11	TO TX-L2 PRIMARY	10	3	12,801	M	CU	1 Set(s) of 3 AWG	4774	--	480	10	0.7	72	0.000250	0.00059	0.795399									0.097	0.91	11,672	-0.06%	-0.79%	11
12	TX-L2 SECONDARY	11	3	11,672	TX					480							DOE	150	45	3.51				208	7,569	0.12	3,143	-0.13%	-0.75%	12
13	TO PANELBOARD L2	12	3	3,143	M	CU	1 Set(s) of 10 AWG	8925	--	208	10	0.7	120	0.000120	0.00055	0.795399									0.029	0.97	3,054	-0.12%	-0.87%	13
14	TO ATS-L5	2	3	19,444	M	CU	1 Set(s) of 8 AWG	1557	--	480	46	0.9	30	0.000780	0.00065	0.451027									2.073	0.33	6,328	-0.36%	-0.54%	14
15	TO LSH1	14	3	6,328	M	CU	1 Set(s) of 8 AWG	1557	--	480	5	0.9	30	0.000780	0.00065	0.451027									0.073	0.93	5,895	-0.04%	-0.58%	15
16	TO LSH2	15	3	5,895	M	CU	1 Set(s) of 8 AWG	1557	--	480	105	0.9	30	0.000780	0.00065	0.451027									1.435	0.41	2,421	-0.83%	-1.41%	16
17	TO ATS-LR	2	3	19,444	M	CU	2 Set(s) of 30 AWG	12844	--	480	50	0.9	320	0.00079	0.00052	0.451027									0.137	0.88	17,108	-0.27%	-0.45%	17
18	TO LRH3	17	3	17,108	M	CU	2 Set(s) of 30 AWG	12844	--	480	5	0.9	320	0.00079	0.00052	0.451027									0.012	0.99	16,904	-0.03%	-0.48%	18
19	TO TX-LR1 PRIMARY	18	3	16,904	M	CU	1 Set(s) of 20 AWG	10755	--	480	45	0.7	100	0.000100	0.00054	0.795399									0.255	0.80	13,467	-0.18%	-0.65%	19
20	TX-LR1 SECONDARY	19	3	13,467	TX					480							DOE	150	112.5	4.37				208	4,349	0.19	5,810	-0.09%	-0.85%	20
21	TO LRL1	20	3	5,810	M	CU	2 Set(s) of 30 AWG	12844	--	208	10	0.7	48	0.000079	0.00052	0.795399									0.019	0.98	5,703	-0.02%	-0.67%	21
22	TO LRL2	21	3	5,703	M	CU	1 Set(s) of 40 AWG	15082	--	208	88	0.7	48	0.000083	0.00051	0.795399									0.277	0.78	4,465	-0.28%	-0.95%	22
23	TO BYPASS PANEL	21	3	5,703	M	CU	1 Set(s) of 6 AWG	2425	--	208	70	0.7	48	0.000480	0.00064	0.795399									1.271	0.42	2,495	-1.08%	-1.78%	23
24	TO LRLUPS	23	3	2,495	M	CU	1 Set(s) of 6 AWG	2425	--	208	10	0.7	48	0.000480	0.00064	0.795399									0.083	0.92	2,222	-0.16%	-1.91%	24
25	TO L1A	5	3	3,166	M	CU	1 Set(s) of 3 AWG	4774	--	208	180	0.7	48	0.000250	0.00059	0.795399									0.984	0.50	1,588	-1.56%	-1.92%	25
26	TO RTU-1	18	3	16,904	M	CU	1 Set(s) of 4 AWG	3896	--	480	160	0.85	64	0.000310	0.00060	0.554811									2.885	0.26	4,351	-1.23%	-1.70%	26
27	TO RTU-2	18	3	16,904	M	CU	1 Set(s) of 8 AWG	1557	--	480	65	0.85	38	0.000780	0.00065	0.554811									2.154	0.32	3,358	-0.50%	-0.87%	27
28	TO RTU-3	18	3	16,904	M	CU	1 Set(s) of 8 AWG	1557	--	480	115	0.85	38	0.000780	0.00065	0.554811									4.505	0.18	3,071	-1.04%	-1.52%	28

BUILDING LOAD SUMMARY (MDP)

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	130533 VA	100%	130533 VA
HEATING (H)	79009 VA	0%	0 VA
LIGHTING (L) (PER NEC-220)	79100 VA	125%	98875 VA
RECEPTACLES (R)	63320 VA	58%	36660 VA
MOTORS (M)	38761 VA	100%	38761 VA
SUPPLEMENTAL HEAT (L)	8342 VA	100%	8342 VA
MISC EQUIP (Z)	98944 VA	100%	98944 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	15983 VA	100%	15983 VA
LARGEST MOTOR	9909 VA	125%	12386 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA
TOTAL LOAD	523901 VA	FA	440484 VA
TOTAL AMPACITY	630	AMPS	530
SERVICE AMPACITY		AMPS	800
SPARE CAPACITY		AMPS	270

PANELBOARD LEGEND

ABBREVIATIONS		V1.01
AF	ARC FAULT CIRCUIT INTERRUPTER	
CH	CIRCUIT VIA CONTACTOR #	
CL	CIRCUIT VIA CURRENT LIMITING DEVICE	
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF	
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP	
EX	EXISTING	
F	FUTURE LOAD, NOTE AS SPARE AND TURN OFF	
FA	REDHANDLE-ON CLAMP	
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA)	
GFPF	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA)	
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE	
IG	ISOLATED GROUND CIRCUIT	
LF	LIGHTING CONTROL SCHEME NUMBER	
LCK	HANDLE PADLOCKABLE-OFF DEVICE	
LO	HANDLE-ON CLAMP	
N	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM	
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM	
PS	POWER-SWITCHING CIRCUIT BREAKER	
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER	
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD	
RP	CIRCUIT VIA RELAY PANEL	
ST	SHUNT TRIP CIRCUIT BREAKER	
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF	
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP, ADJUST GROUND WIRE SIZE PER CODE, PROVIDE LUG ADAPTORS IF REQUIRED	
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION	

NOT ALL ABBREVIATIONS ARE USED.

PANELBOARD: H2

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MDP

FAULT CURRENT:
AIC RATED: FULLY RATED
SERVES: OFFICE
MOUNTING: SURFACE
LOCATION: ELECTRICAL 124

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE			P BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
							A	B	C							
1	TX-H2						18295	1279					18295	1279	2	
3	TX-H2						19866	2891					19866	2891	4	
5	LTG-RMS 125, 133	L					588	2891					14730	2891	6	
7	LTG-RMS 129, 131, 127, 134, 135, 105	L											335	2891	10	
9	LTG-RMS 107 THROUGH 110	L											210	2891	12	
11	LTG-RMS 101, 103, 104	L					285	2891							14	
13	LTG-RMS 154, 155, 143, 144, 145	L											935	800	16	
15	LTG-RMS 126, 113, 112	L											696	4800	18	
17	LTG-RMS 146, 150, 149, 148	L					872	2000							20	
19	LTG-RMS 138 THROUGH 141	L											480	900	22	
21	LTG-RMS 142, DV1	L													24	
23	LTG-RMS 119, 115, 116, 117, 121	L					392	500					408	900	26	
25	LTG-RM 162, 160	L											56	1997	28	
27	PWR - MUA-1 ON ROOF	M					416	3200					416	2100	30	
29	PWR - DH-1 BOOKING 146	H					10000	0					10000	0	32	
31													416	0	34	
33															36	
35															38	
37															40	
39															42	
41																
TOTAL LOAD (VA):							43610 VA	43832 VA	40067 VA							
TOTAL AMPS:							159 A	160 A	145 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES
EXISTING LOAD (E)	0 VA	100%	0 VA	
COOLING (C)	0 VA	0%	0 VA	
HEATING (H)	53797 VA	100%	53797 VA	
LIGHTING (L)	7325 VA	125%	9156 VA	
RECEPTACLES (R)	31040 VA	66%	20520 VA	
MOTORS (M)	16699 VA	100%	16699 VA	
SUPPLEMENTAL HEAT (U)	1666 VA	100%	1666 VA	
MISC EQUIP (Z)	4640 VA	100%	4640 VA	
REFRIGERATION (F)	0 VA	100%	0 VA	
SIGNAGE (S)	0 VA	125%	0 VA	
KITCHEN (K)	0 VA	100%	0 VA	
LARGEST MOTOR	8674 VA	125%	10843 VA	
SHOW WINDOW (W)	0 VA	125%	0 VA	
TRACK LIGHTING	0 VA	100%	0 VA	
TOTAL CONNECTED LOAD				58322 VA
TOTAL NEC LOAD				58322 VA
TOTAL CONNECTED CURRENT				70 A
TOTAL NEC DEMAND CURRENT				70 A

PANELBOARD: KH (NEW)

BUS AMPS: 400A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MDP

FAULT CURRENT:
AIC RATED: FULLY RATED
SERVES: KITCHEN
MOUNTING: SURFACE
LOCATION: MECH. 156

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE			P BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
							A	B	C							
1	TX-KH						9963	830					11722	830	2	
3	TX-KH												12116	830	4	
5							6643	0							6	
7	DISHWASHER	Z	GF		10	30	3	6643	0						10	
9	HEAT TRACE SYSTEM	Z	GF		10	30	1	2100	0				6643	0	12	
11	SPARE				20	1									14	
13	SPARE				20	1									16	
15	SPARE				20	1									18	
17	SPARE				20	1									20	
19	SPARE				20	1									22	
21	SPARE				20	1									24	
23	EQUIPPED SPACE				20	1									26	
25	EQUIPPED SPACE				20	1									28	
27	EQUIPPED SPACE				20	1									30	
29	EQUIPPED SPACE				20	1									32	
31	EQUIPPED SPACE				20	1									34	
33	EQUIPPED SPACE				20	1									36	
35	EQUIPPED SPACE				20	1									38	
37	EQUIPPED SPACE				20	1									40	
39	EQUIPPED SPACE				20	1									42	
41	EQUIPPED SPACE				20	1										
TOTAL LOAD (VA):							19537 VA	19196 VA	19590 VA							
TOTAL AMPS:							71 A	69 A	71 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES
EXISTING LOAD (E)	0 VA	100%	0 VA	
COOLING (C)	0 VA	0%	0 VA	
HEATING (H)	0 VA	100%	0 VA	
LIGHTING (L)	0 VA	125%	0 VA	
RECEPTACLES (R)	2160 VA	100%	2160 VA	
MOTORS (M)	0 VA	100%	0 VA	
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA	
MISC EQUIP (Z)	40179 VA	100%	40179 VA	
REFRIGERATION (F)	0 VA	100%	0 VA	
SIGNAGE (S)	0 VA	125%	0 VA	
KITCHEN (K)	15983 VA	100%	15983 VA	
LARGEST MOTOR	0 VA	125%	0 VA	
SHOW WINDOW (W)	0 VA	125%	0 VA	
TRACK LIGHTING	0 VA	100%	0 VA	
TOTAL CONNECTED LOAD				58322 VA
TOTAL NEC LOAD				58322 VA
TOTAL CONNECTED CURRENT				70 A
TOTAL NEC DEMAND CURRENT				70 A

PANELBOARD: L2

BUS AMPS: 225A
MAIN SIZE/TYPE: 150A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: H2 VIA TX-L2

FAULT CURRENT:
AIC RATED: FULLY RATED
SERVES: OFFICE
MOUNTING: SURFACE
LOCATION: ELECTRICAL 124

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE			P BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
							A	B	C							
1	RCPT-LOBBY 101 NORTH	R	VD		10	20	1	540	900				VD	R	RCPT-OFFICE 110	2
3	RCPT-LOBBY 101 & 103 SOUTH	R	VD		10	20	1							R	RCPT-STAFF BREAK FLOOR - NORTH	4
5	RCPT-DISPATCH BREAK 140 AC	R	VD		10	20	1							R	RCPT-STAFF BREAK FLOOR - SOUTH	6
7	RCPT-COFFEE MAKER 140	R	VD		10	20	2	900	720					R	RCPT-RM 113 NW WALL	8
9																10
11	RCPT-DISPATCH BREAK FRIDGE 140	Z			12	20	1							Z	DRINKING FOUNTAIN, RM 112	12
13	RCPT-RM 117, 119	R	VD		12	20	1	720	360					R	RCPT-RESTROOMS 129 & 131	14
15	RCPT-RM 140, 141, DV1	R	VD		10	20	1							R	RCPT-RM 126, 127	16
17	RCPT-DISPATCH 138 NORTH	R	VD		10	20	1							Z	RCPT-MIRCOWAVE, BREAK ROOM 126	18
19	RCPT-DISPATCH 138 SOUTH	R	VD		10	20	1	720	1000					R	RCPT-COFFEE MAKER, RM 126	20
21	RCPT-DISPATCH SUPERVISOR 137	R			12	20	1							R	RCPT-ARRESTING OFFICER RM 166	22
23	RCPT-COPIER/PRINTER WORK AREA S	R			12	20	1							Z	RCPT-FRIDGE RM 126	24
25	RCPT-COPIER/PRINTER WORK AREA N	R			12	20	1	800	720					R	RCPT-RM 113 EAST WALL	26
27	RCPT-WORK AREA AC	R			12	20	1							R	RCPT-RM 113 EAST WALL NORTH	28
29	RCPT-OFFICE 107	R	VD		10	20	1							R	RCPT-RM 123, 124, 133	30
31	RCPT-OFFICE 108	R	VD		10	20	1	900	900					R	RCPT-MEDICAL EXAM 144	32
33	RCPT-OFFICE 109															

FUSIBLE PANELBOARD: LSH1 (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: 45A MCB
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MDP

FAULT CURRENT: FULLY RATED
AIC RATED: FCA +10% MINIMUM
SERVES: SURFACE
MOUNTING: SURFACE
LOCATION: EMERGENCY ELECTRICAL 169

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	FUSE WIRE AMP SIZE	PHASE			NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
						A	B	C				
1	LTG-CONTROL ROOM 169	L		12 20 11		173	108				EQUIPPED SPACE	2
3	LTG-SECURE CORRIDOR 162	L		12 20 11			336	194			EQUIPPED SPACE	4
5	LTG-AREA A	L		12 20 11				247	0		EQUIPPED SPACE	6
7	LTG-AREA B	L		12 20 11		247	0				EQUIPPED SPACE	8
9	LTG-AREA C	L		12 20 11			247	0			EQUIPPED SPACE	10
11	LTG-AREA D	L		12 20 11				247	0		EQUIPPED SPACE	12
13	LTG-AREA E	L		12 20 11		247	0				EQUIPPED SPACE	14
15	LTG-AREA F	L		12 20 11			247	0			EQUIPPED SPACE	16
17	LTG-MECHANICAL 163	L		12 20 11				195	0		EQUIPPED SPACE	18
19	LTG-EM EGRESS, RM 101, 114, SP4, DV1	L	RP	12 20 11		386	0				EQUIPPED SPACE	20
21	SPARE			20 11							EQUIPPED SPACE	22
23	SPARE			20 11							EQUIPPED SPACE	24
25	SPARE			20 11		0	0				EQUIPPED SPACE	26
27	SPARE			20 11							EQUIPPED SPACE	28
29	SPARE			20 11							EQUIPPED SPACE	30
TOTAL LOAD (VA):						2171 VA	1023 VA	1156 VA				
TOTAL AMPS:						8 A	4 A	4 A				

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES
EXISTING LOAD (E)	0 VA	100%	0 VA	
COOLING (C)	0 VA	0%	0 VA	
HEATING (H)	0 VA	100%	0 VA	
LIGHTING (L)	4352 VA	125%	5440 VA	
RECEPTACLES (R)	0 VA	0%	0 VA	
MOTORS (M)	0 VA	100%	0 VA	
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA	
MISC EQUIP (Z)	0 VA	100%	0 VA	
REFRIGERATION (F)	0 VA	100%	0 VA	
SIGNAGE (S)	0 VA	125%	0 VA	
KITCHEN (K)	0 VA	100%	0 VA	
LARGEST MOTOR	0 VA	125%	0 VA	
SHOW WINDOW (W)	0 VA	125%	0 VA	
TRACK LIGHTING	0 VA	100%	0 VA	
PANELBOARD TOTALS				
TOTAL CONNECTED LOAD 4352 VA				
TOTAL NEC LOAD 5440 VA				
TOTAL CONNECTED CURRENT 5 A				
TOTAL NEC DEMAND CURRENT 7 A				

PANELBOARD: L1 (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 150A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: MDP VIA TX-L1

FAULT CURRENT: FULLY RATED
AIC RATED: FCA +10% MINIMUM
SERVES: BUILDING
MOUNTING: SURFACE
LOCATION: ELECTRICAL 163

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR P	PHASE			NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
						A	B	C				
1	RCPT-MECH RMS 164, 163, & EXTERIOR	R		12 20 11		1080	1440				PANELBOARD L1A	2
3	RCPT-PLUGMOLD RM 155 SOUTH	R	VD	10 20 11				675	2080			4
5	RCPT-PLUGMOLD RM 159 SE	R	VD	10 20 11				675	864			6
7	RCPT-PLUGMOLD RM 159 NE	R	VD	10 20 11		675	1456					8
9	RCPT-PLUGMOLD RM 159 N	R	VD	10 20 11				675	1456			10
11	RCPT-POD B & POD C	L	R	12 20 11						760	1456	2
13	RCPT-EXERCISE, POD D & E	L	R	12 20 11		760	1456					14
15	LTG-POD B & POD C	L		12 20 11				892	600			16
17	LTG-POD D & POD E	L		12 20 11					892	650		18
19	RP3-MECH RM 158	M		12 15 11		228	800					20
21	WHG-1-MECH RM 158	U		12 15 11				564	540			22
23	UH-2-EXERCISE EJE	U		12 15 11					288	500		24
25	GEN JACKET HEATER	Z		12 20 11		1667	540					26
27	ANTI-CONDENSATION HTR-GEN	Z		12 20 11				278	540			28
29	BATTERY CHARGER GENERATOR	Z		12 20 11						222	0	1
31	RCPT-MECH 158 & EXTERIOR	R		12 20 11		540	0					32
33	RCPT-EXT ROOF	R		12 20 11				1080	0			34
35	RCPT-TVS, POD F AND E	R		12 20 11					1500	0		36
37	RCPT-TVS, POD E AND D	R		12 20 11		1500	0					38
39	RCPT-TVS, POD B AND C	R		12 20 11				1500	0			40
41	RCPT-TVS, POD A AND B	R		12 20 11					1500	0		42
TOTAL LOAD (VA):						12142 VA	10880 VA	9307 VA				
TOTAL AMPS:						103 A	93 A	78 A				

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES
EXISTING LOAD (E)	0 VA	100%	0 VA	
COOLING (C)	0 VA	0%	0 VA	
HEATING (H)	0 VA	100%	0 VA	
LIGHTING (L)	2584 VA	125%	3230 VA	
RECEPTACLES (R)	17260 VA	78%	13350 VA	
MOTORS (M)	228 VA	100%	228 VA	
SUPPLEMENTAL HEAT (U)	6676 VA	100%	6676 VA	
MISC EQUIP (Z)	4717 VA	100%	4717 VA	
REFRIGERATION (F)	0 VA	100%	0 VA	
SIGNAGE (S)	0 VA	125%	0 VA	
KITCHEN (K)	0 VA	100%	0 VA	
LARGEST MOTOR	864 VA	125%	1080 VA	
SHOW WINDOW (W)	0 VA	125%	0 VA	
TRACK LIGHTING	0 VA	100%	0 VA	
PANELBOARD TOTALS				
TOTAL CONNECTED LOAD 32320 VA				
TOTAL NEC LOAD 29561 VA				
TOTAL CONNECTED CURRENT 90 A				
TOTAL NEC DEMAND CURRENT 82 A				

FUSIBLE PANELBOARD: LSH2 (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: LSH1

FAULT CURRENT: FULLY RATED
AIC RATED: FCA +10% MINIMUM
SERVES: SURFACE
MOUNTING: SURFACE
LOCATION: ELECTRICAL 124

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	FUSE WIRE AMP SIZE	PHASE			NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
						A	B	C				
1	LTG-RM 113, 112, 106	L		12 20 11		343	0				EQUIPPED SPACE	2
3	LTG-RM 156	L		12 20 11			39	0			EQUIPPED SPACE	4
5	LTG-RM 101	L		12 20 11				102	0		EQUIPPED SPACE	6
7	LTG-RM 146, 166	L		12 20 11		441	0				EQUIPPED SPACE	8
9	LTG-RM 136, 138	L		12 20 11			155	0			EQUIPPED SPACE	10
11	LTG-SECURE CORRIDOR, SP1, DV1	L		12 20 11				366	0		EQUIPPED SPACE	12
13	LTG-RM 114, 119, 121, 124, 120	L		12 20 11		334	0				EQUIPPED SPACE	14
15	SPARE			20 11							EQUIPPED SPACE	16
17	SPARE			20 11							EQUIPPED SPACE	18
19	SPARE			20 11		0	0				EQUIPPED SPACE	20
21	SPARE			20 11							EQUIPPED SPACE	22
23	SPARE			20 11							EQUIPPED SPACE	24
25	SPARE			20 11		0	0				EQUIPPED SPACE	26
27	SPARE			20 11							EQUIPPED SPACE	28
29	SPARE			20 11							EQUIPPED SPACE	30
TOTAL LOAD (VA):						1118 VA	194 VA	468 VA				
TOTAL AMPS:						4 A	1 A	2 A				

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES
EXISTING LOAD (E)	0 VA	100%	0 VA	
COOLING (C)	0 VA	0%	0 VA	
HEATING (H)	0 VA	100%	0 VA	
LIGHTING (L)	1780 VA	125%	2225 VA	
RECEPTACLES (R)	0 VA	0%	0 VA	
MOTORS (M)	0 VA	100%	0 VA	
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA	
MISC EQUIP (Z)	0 VA	100%	0 VA	
REFRIGERATION (F)	0 VA	100%	0 VA	
SIGNAGE (S)	0 VA	125%	0 VA	
KITCHEN (K)	0 VA	100%	0 VA	
LARGEST MOTOR	0 VA	125%	0 VA	
SHOW WINDOW (W)	0 VA	125%	0 VA	
TRACK LIGHTING	0 VA	100%	0 VA	
PANELBOARD TOTALS				
TOTAL CONNECTED LOAD 1780 VA				
TOTAL NEC LOAD 2225 VA				
TOTAL CONNECTED CURRENT 2 A				
TOTAL NEC DEMAND CURRENT 3 A				

PANELBOARD: L1A (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: 125A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: L1

FAULT CURRENT: FULLY RATED
AIC RATED: SHELTER
SERVES: SURFACE
MOUNTING: SURFACE
LOCATION: CONFERENCE STORAGE 135B

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR P	PHASE			NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
						A	B	C				
1	RCPT-CONF ROOM 135 SOUTH	R		12 20 11		720	720				RCPT-CONF ROOM 135 FLOOR BOX	2
3	RCPT-CONF ROOM 135 N & W	R		12 20 11				1080	1000			4
5	PWR-SF-1 VIA UPS	M		12 15 11					864	0		6
7	SPARE			20 11		0	0					8
9	SPARE			20 11				0	0			10
11	SPARE			20 11					0			12
13	SPARE			20 11		0	0					14
15	SPARE			20 11				0	0			16
17	SPARE			20 11					0			18
19	EQUIPPED SPACE			20 11		0	0					20
21	EQUIPPED SPACE			20 11				0	0			22
23	EQUIPPED SPACE			20 11					0	0		24
25	EQUIPPED SPACE			20 11		0	0					26
27	EQUIPPED SPACE			20 11				0	0			28
29	EQUIPPED SPACE			20 11					0	0		30
TOTAL LOAD (VA):						1440 VA	2080 VA	864 VA				
TOTAL AMPS:						13 A	18 A	7 A				

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR
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FUSIBLE PANELBOARD: LRL1 (NEW)

BUS AMPS: 400A
 MAIN SIZE/TYPE: 400A MCB
 VOLTS/PHASE: 208Y/120 V 3P/4W
 SUPPLIED BY: LRH3 VIA TX-LRL1

FAULT CURRENT:
 AIC RATING: FULLY RATED
 SERVES: FCA +10% MINIMUM BUILDING OPTIONAL STANDBY SURFACE
 MOUNTING: SURFACE
 LOCATION: EMERGENCY ELECTRICAL 169

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	FUSE SIZE	PHASE A	PHASE B	PHASE C	FUSE WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
1	PANELBOARD LRL2			OL 125 3		23611	3180		3	20	OL	R Z	PANELBOARD LRUPS VIA 15 KW/15KVA UPS	4
5	PWR - OU-3IU-3	C		12 25 2		1009	1009		2	25	12	C	PWR - OU-4IU-4	6
9	PWR - OU-8IU-9	C		12 25 2		1009	1009		2	25	12	C	PWR - OU-5IU-5	10
13	PWR - SEF-4.5.6	M		12 15 1		1009	1009		1	15	12	M	SEF-1 ROOF EAST	12
15	RCPT-PLUGMOLD RM 159, NORTH	R		12 20 1					1	15	12	M	SEF-2 ROOF EAST	16
17	RCPT-PLUGMOLD RM 159, SE	R		12 20 1		675	864		1	15	12	M	SEF-3 ROOF EAST	18
19	RCPT-PLUGMOLD RM 159, NE	R		12 20 1		675	864		1	15	12	M	SEF-4 ROOF EAST	20
21	RCPT-PLUGMOLD RM 159, SOUTH	R		12 20 1					1	15	12	M	SEF-5 ROOF EAST	22
23	RCPT-PLUGMOLD RM 159, NORTH	R		12 20 1					1	15	12	M	SEF-6 ROOF EAST	24
25	RCPT-RM 159 CEILING & TV	R		12 20 1		720	0		1	15	12	Z	SPARE	26
27	PWR - RM 162, 162 DAMPERS	Z		12 15 1			320	400		1	15	Z	PWR - DAMPERS, AREA D, E, F	28
29	PWR - RM 162 DAMPERS	Z		12 15 1			400	400		1	15	Z	PWR - DAMPERS, AREA A, B, C	30
31	LCP - RELAY PANEL	Z		12 20 1		500	0		1	20		Z	SPARE	32
33	FFSCP	Z	FA	12 20 1			500	0		1	20	Z	SPARE	34
35	FACP	Z	FA	12 20 1			500	0		1	20	Z	EQUIPPED SPACE	36
37	RPS	Z	FA	12 20 1		500	0		1	20		Z	EQUIPPED SPACE	38
39	EQUIPPED SPACE												EQUIPPED SPACE	40
41	EQUIPPED SPACE												EQUIPPED SPACE	42
TOTAL LOAD (VA):						34086 VA	36661 VA	34119 VA						
TOTAL AMPS:						284 A	306 A	284 A						

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES	TOTAL CONNECTED LOAD
EXISTING LOAD (E)	0 VA	100%	0 VA		0 VA
COOLING (C)	34543 VA	100%	34543 VA		34543 VA
HEATING (H)	0 VA	0%	0 VA		0 VA
LIGHTING (L)	0 VA	125%	0 VA		0 VA
RECEPTACLES (R)	12320 VA	91%	11160 VA		12320 VA
MOTORS (M)	7096 VA	100%	7096 VA		7096 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA		0 VA
MISC EQUIP (Z)	49908 VA	100%	49908 VA		49908 VA
REFRIGERATION (F)	0 VA	100%	0 VA		0 VA
SIGNAGE (S)	0 VA	125%	0 VA		0 VA
KITCHEN (K)	0 VA	100%	0 VA		0 VA
LARGEST MOTOR	1000 VA	125%	1250 VA		1000 VA
SHOW WINDOW (W)	0 VA	125%	0 VA		0 VA
TRACK LIGHTING	0 VA	100%	0 VA		0 VA

FUSIBLE PANELBOARD: LRH3 (NEW)

BUS AMPS: 400A
 MAIN SIZE/TYPE: MLO
 VOLTS/PHASE: 480Y/277 V 3P/4W
 SUPPLIED BY: MDP

FAULT CURRENT:
 AIC RATING: FULLY RATED
 SERVES: FCA +10% MINIMUM BUILDING OPTIONAL STANDBY SURFACE
 MOUNTING: SURFACE
 LOCATION: EMERGENCY ELECTRICAL 169

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	FUSE SIZE	PHASE A	PHASE B	PHASE C	FUSE WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
1	PANELBOARD LRL1 VIA TX-LRL1			OL 175 3		34086	7455		3	45	8	C	PWR - RTU-2 ON ROOF	4
5	PWR - BP MECHANICAL 158	M		12 15 3		1330	7455		3	45	8	C	PWR - RTU-3 ON ROOF	6
9	PWR - RTU-1 ON ROOF	C		6 80 3		15934	3303		3	20	12	M	PWR - ERV-1 ON ROOF	10
11	PWR - RTU-1 ON ROOF	C		6 80 3		15934	3303		3	20	12	M	PWR - ERV-1 ON ROOF	12
13	PWR - RTU-1 ON ROOF	C		6 80 3		15934	3303		3	20	12	M	PWR - ERV-1 ON ROOF	14
15	PWR - RTU-1 ON ROOF	C		6 80 3		15934	3303		3	20	12	M	PWR - ERV-1 ON ROOF	16
17	LTG-RMS 129, 131, 128, 135, 137, 140	L		12 20 1		459	195		1	20	12	L	LTG-MECHANICAL 158	18
19	LTG-RMS 107 THROUGH 111	L		12 20 1		330	291		1	20	12	RP	LTG-WALL SCONCES JAIL AREA	20
21	LTG-PAD1.2 & HD1.2.3	L		12 20 1					1	20	10	VD,RP	LTG-PARKING LOT, NORTH & EAST	22
23	LTG-KITCHEN & MEDCELL	L		12 20 1		224	413		1	20	10	VD,RP	LTG-PARKING LOT, SOUTH & WEST	24
25	LTG-SALLYPORT	L		12 20 1					1	20	10	VD,RP	LTG-PARKING LOT, SOUTH & WEST	26
27	LTG-AREA A	L		12 20 1					1	20	12	H	VAV 1-1	28
29	LTG-AREA B	L		12 20 1		774	3800		3	20	12	H	VAV 1-1	30
31	LTG-AREA C	L		12 20 1					1	15	12	H	VAV 1-2	32
33	LTG-AREA D	L		12 20 1		691	2800		3	20	12	H	VAV 1-3	34
35	LTG-AREA E	L		12 20 1		691	1000		3	20	12	H	VAV 1-3	36
37	LTG-AREA F	L		12 20 1		691	1200		3	20	12	H	VAV 1-4, 1-15	38
39	LTG-AREA G	L		12 20 1					1	15	12	H	VAV 1-4, 1-15	40
41	LTG-AREA H	L		12 20 1					1	30	10	H	VAV 1-13	42
TOTAL LOAD (VA):						77119 VA	82109 VA	34119 VA						
TOTAL AMPS:						278 A	299 A	308 A						

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES	TOTAL CONNECTED LOAD
EXISTING LOAD (E)	0 VA	100%	0 VA		0 VA
COOLING (C)	127074 VA	100%	127074 VA		127074 VA
HEATING (H)	29212 VA	0%	0 VA		29212 VA
LIGHTING (L)	0 VA	125%	0 VA		0 VA
RECEPTACLES (R)	12320 VA	91%	11160 VA		12320 VA
MOTORS (M)	12086 VA	100%	12086 VA		12086 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA		0 VA
MISC EQUIP (Z)	49908 VA	100%	49908 VA		49908 VA
REFRIGERATION (F)	0 VA	100%	0 VA		0 VA
SIGNAGE (S)	0 VA	125%	0 VA		0 VA
KITCHEN (K)	0 VA	100%	0 VA		0 VA
LARGEST MOTOR	9609 VA	125%	12011 VA		9609 VA
SHOW WINDOW (W)	0 VA	125%	0 VA		0 VA
TRACK LIGHTING	0 VA	100%	0 VA		0 VA

FUSIBLE PANELBOARD: LRL2 (NEW)

BUS AMPS: 400A
 MAIN SIZE/TYPE: MLO
 VOLTS/PHASE: 208Y/120 V 3P/4W
 SUPPLIED BY: LRL1

FAULT CURRENT:
 AIC RATING: FULLY RATED
 SERVES: FCA +10% MINIMUM OFFICE SURFACE
 MOUNTING: SURFACE
 LOCATION: ELECTRICAL 124

EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	FUSE SIZE	PHASE A	PHASE B	PHASE C	FUSE WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.			
1	RCPT-DISPATCH 138 NORTH	R	VD	10 20 1		720	1000		1	20	12	M	CTRLS-VAV 8, 19, 21, 14, 16, 17, 18, 15, 13	2		
3	RCPT-DISPATCH 138 SOUTH	R	VD	10 20 1		720	1100		1	20	12	Z M	CTRLS-VAV 1, 2, 3, 5, 6, 7, 9, 10, 11, 20, 12	4		
5	RCPT-DISPATCH SUPER 137	R	VD	10 20 1					1	15	12	Z	PWR - NORTH OFFICE SMOKE DAMPER	6		
7	RCPT-WORK AREA 106, VIDEO VISIT	R	VD	10 20 1		540	880		1	15	12	Z	PWR - BOOKING AREA DAMPERS	8		
9	RCPT-OFFICE 107, 108	R	VD	10 20 1			720	640		1	15	Z	PWR - STORAGE & CONF. RM DAMPERS	10		
11	RCPT-OFFICE 109, 110	R	VD	10 20 1					1	20	8	VD	Z	SERVER RACK 7 (L6-30R) - RM 134	12	
13	RCPT-ROAD PATROL 113, NORTH	R	VD	10 20 1		720	90		1	20	8	VD	Z	SERVER RACK 7 (L6-30R) - RM 134	14	
15	RCPT-ROAD PATROL 113, NORTH EAST	R	VD	10 20 1			540	180		1	20	8	VD	Z	SERVER RACK 7 (L6-30R) - RM 134	16
17	RCPT-ROAD PATROL 113, SOUTH	R	VD	10 20 1					1	20	8	VD	Z	SERVER RACK 8 (L6-30R) - RM 134	18	
19	RCPT-JAIL ADMIN 145	R	VD	10 20 1		540	90		1	20	8	VD	Z	SERVER RACK 8 (L6-30R) - RM 134	20	
21	RCPT-MEDICAL EXAM 144	R	VD	10 20 1			180	180		1	20	8	VD	Z	SERVER RACK 8 (L6-30R) - RM 134	22
23	RCPT-SALLYPORT SP4	R	VD	10 20 1					1	20	12	R	RCPTS-SERVER ROOM 134 WALL	24		
25	PWR - OU-8IU-6	C		12 25 2		1009	90		2	30	8	VD	Z	SERVER RACK 1 (L6-30R) - RM 141	26	
27	PWR - OU-7IU-7	C		10 35 2			1009	90		1	20	8	VD	Z	SERVER RACK 1 (L6-30R) - RM 141	28
29	PWR - OU-11IU-11 (PRIMARY)	C		10 35 2			1620	180		1	20	8	VD	Z	SERVER RACK 1 (L6-30R) - RM 141	30
31	PWR - OU-12IU-12 (REDUNDANT)	C		10 35 2			1986	2496		2	30	8	VD	Z	SERVER RACK 2 (L6-30R) - RM 141	32
33	PWR - OU-12IU-12 (REDUNDANT)	C		10 35 2			1986	2496		2	30	8	VD	Z	SERVER RACK 2 (L6-30R) - RM 141	34
35	PWR - OU-12IU-12 (REDUNDANT)	C		10 35 2			0	1230		2	30	8	VD	Z	SERVER RACK 3 (L6-30R) - RM 141	36
37	PWR - OU-12IU-12 (REDUNDANT)	C		10 35 2			0	1230		2	30	8	VD	Z	SERVER RACK 3 (L6-30R) - RM 141	38
39	PWR - OU-12IU-12 (REDUNDANT)	C		10 35 2			0	1230		2	30	8	VD	Z	SERVER RACK 3 (L6-30R) - RM 141	40
41	OU-14IU-14 ROOF PLAN	C	VD	10 25 2		1009	890		1	20	8	VD	Z	SERVER RACK 3 (L6-30R) - RM 141	42	
43	EF 1, 2 ON ROOF	M		12 15 1					1	20	10	VD	R	SERVER RACK 4 (L6-30R) - RM 141	44	
45	PWR - SOUTH OFFICE SMOKE DAMPER	Z		12 15 1					1	20	8	VD	Z	SERVER RACK 4 (L6-30R) - RM 141	46	
47	SERVER RACK 1 (L6-30R) - RM 134	Z	VD	8 30 2		2496	2496		2	30	8	VD	Z	SERVER RACK 4 (L6-30R) - RM 141	48	
49	SERVER RACK 1 (L6-30R) - RM 134	Z	VD	8 30 2		2496	2496		2	30	8	VD	Z	SERVER RACK 4 (L6-30R) - RM 141	50	
51	SERVER RACK 1 (L6-30R) - RM 134	Z	VD	8 30 2		2496	2496		2	30	8	VD	Z	SERVER RACK 4 (L6-30R) - RM 141	52	
53	SERVER RACK 2 (L6-30R) - RM 134	Z	VD	8 30 2		2496										

PLUMBING FIXTURE SCHEDULE

Table with columns: PLUMBING PLAN MARK, DESCRIPTION. Rows include AA01, AD01, AP01, CDB1, CU1, CU2, CU3, DCV1, DSB1, DSN, ECO1, ECO2, EWC, FC01, FC0, FC0H, FC0V1, FC0V2, FCV1, FCV4, FD01, FD2.

PLUMBING FIXTURE SCHEDULE

Table with columns: PLUMBING PLAN MARK, DESCRIPTION. Rows include FD3, FFD, FS1, FS2, GI, HB1, HD1, IMB, IMB1, JS1, JS2, LV1, MBV, NW1, ORD1, PWF, RD1, RH, RPZ1, SG.

PLUMBING FIXTURE SCHEDULE

Table with columns: PLUMBING PLAN MARK, DESCRIPTION. Rows include SK1, SK2, SK3, SO1, SV1, SV2, SV3, TD1, TMV1, TMV2, UR1, WC1, WC2, WCO, WHA.



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Architect's Name
License # : XXXXX
Date: 03/01/2024

Issue

2 Addendum #2 03/20/2024

4 Addendum #4 04/03/2024

5 Addendum #5 04/18/2024



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EXPIRES: 03/01/2026

PROFESSIONAL SEAL

SCOTT A. WALTER

04/18/2024

EXPRESSES ON: 11/01/2025

Drawn by: Author
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PLUMBING SCHEDULES

P500

04/18/2024



Addendum No. 5

Project: **Edgar County Public Safety Center**
12636 950th Road
Paris, IL 61944

Issued to: CORE Construction

Owner: Edgar County Illinois
115 W. court Street
Paris, IL 61944

Attention: Bidders

Project No.: 21003.003

Date of Issue: 04-18-2024

This Addendum supersedes and supplements all portions of the bidding documents with which it conflicts. Written addenda, including drawings or other graphic documents issued before execution of the contract modifies or interprets the bidding documents.

Architectural

Specifications:

1. 08 8853 – Security Glazing
 - a. Removed paragraph 2.4. Bullet Resisting Transaction Window.
2. 08 5653 – Security Windows
 - a. Added this specification section for Bullet Resisting Transaction Window.
3. 102813.63 – Detention Accessories
 - a. Removed paragraph 2.8, Sill pass/deal tray.
 - b. Revised model number for Transaction Drawer.

Drawings:

1. A130 – Enlarged Plans
 - a. A8 at Decon #165, door opening height is 7'-4".
 - b. Detention Equipment
 - i. Moved transaction drawer/package pass to from the Equipment Schedule to the Detention Equipment Schedule.
2. A300 – Building Elevations
 - a. West Elevation - Changed the glazing for the Dispatch exterior detention window to VT-1.
3. A801 – Detention Opening Schedule and Details
 - a. F10 – Frame Types – Detention
 - i. Changed window sizes for HMC-5 and HMC-6
 - ii. Opening Schedule (Detention) – Changed windows 112 and 121B to ballistic resistant glazing as provided by window manufacturer.
 - b. Added new details: A6, C6 and D6.
 - c. Revised details A10, C10, and D10.
 - d. Moved detail Anti-Pass Threshold Sill detail to H12.
 - e. Revised insect screen note at details A12, C12 and D12.

Attachments: Drawing Sheets: A130, A300 and A801.

ISSUED: HMN Architects, Inc.

BY: _____

Jill Ralph
Jill Ralph
Architect

SECTION 10 2813.63 - DETENTION ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:

- 1. Safety hooks.
- 2. Shelves.
- 3. Combination shelves with safety hooks.
- 4. Miscellaneous toilet accessories.
- 5. Stainless-steel mirrors.
- 6. Grab bars.
- 7. Shower seats.
- ~~8.~~ ~~Sill Pass/Deal Tray~~
- 9-8. Transaction Drawer/Package Pass
- 10-9. Cuff Rings

- B. Related Requirements:

- 1. Section 01 3513.16 "Special Project Procedures for Detention Facilities" for general requirements for detention work.
- 2. Section 09 9123 "Interior Painting" for field painting of detention toilet accessories.
- 3. Section 10 2800 "Toilet, Bath, and Laundry Accessories" for non-detention toilet accessories.

1.3 COORDINATION

- A. Coordinate installation of anchorages for detention toilet accessories. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in adjoining construction. Deliver such items to Project site in time for installation.
- B. Coordinate size and location of recesses in wall construction to receive recessed detention toilet accessories.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples for Verification: For each type of detention toilet accessory indicated.
- C. Product Schedule: For detention toilet accessories. Indicate types, quantities, sizes, and installation locations by room of each accessory required. Use same designations indicated on Drawings.

1.6 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Location of each built-in anchor supporting detention toilet accessories, including anchors to be installed as work of other Sections, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Locations, dimensions, and profiles of wall and floor reinforcements.
 - 2. Locations and installation details of built-in anchors.
 - 3. Elevations of each detention toilet accessory showing dimensions of accessory, preparations for receiving anchors, and locations of anchorage.
 - 4. Details of attachment of each detention toilet accessory to built-in anchors.
- B. Examination reports documenting inspection of substrates, areas, and conditions.
- C. Anchor inspection reports documenting inspections of built-in and cast-in anchors.
- D. Field quality-control certification signed by Contractor and Detention Specialist.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For detention toilet accessories to include in maintenance manuals.

1.8 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Security Fasteners: Furnish not less than 1 box for each 50 boxes or fraction thereof, of each type and size of security fastener installed.
 - 2. Tools: Provide five sets of tools for installing and removing security fasteners.

1.9 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace detention toilet accessories that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
 - a. Structural failures including deflection exceeding **1/4 inch (6.3 mm)**.
 - b. Faulty operation of hardware.
 - c. Deterioration of metals, metal finishes, and other materials.
2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Norix – (Basis of design) One Innovation Drive - Chicago, IL 60185
- B. Pro Form Inc. – 3317 N State Highway 37 – Quitman, TX 75783

2.2 DETENTION SAFETY TOWEL HOOKS AND SHELF

- A. Multiple, Ball and Hook Strip: Minimum **5-1/2-inch- (140-mm-)** high backplate by length indicated, formed from **0.125-inch- (3.18-mm-)** thick, stainless-steel sheet. Provide stainless-steel ball and spring hooks attached to backplate; with each hook having a friction washer assembly, adjustable with a nonremovable security screw that maintains pressure on hook and allows hook to pivot when load exceeds preset limit.
 1. Products: Subject to compliance with requirements, basis of design:
 - a. Norix ITS #S565-520.
 2. Configuration: ITS-410 with stainless shelf.
 3. Mounting: Front mounting with security fasteners.
- B. Materials:
 1. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.
- C. Stainless-Steel Finish:
 1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
 2. Polished Finish: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - a. Run grain of directional finishes with long dimension of each piece.
 - b. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
 - c. Directional Satin Finish: No. 4.

2.3 DETENTION SAFETY HOOKS

- A. Multiple, Straight, Safety Hook Strip: Minimum **5-1/2-inch- (140-mm-)** high backplate by length indicated, formed from **0.141-inch- (3.58-mm-)** thick, stainless-steel sheet. Provide **3/8-inch- (9.5-mm-)** diameter, stainless-steel straight hooks attached to backplate. Provide pivoting assembly that maintains pressure on hook and snaps down when load exceeds **8 lbf (35.6 N)**.
1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Norix Group, Inc.; Ball Clothes Hooks, Model S575-528.
 2. Configuration: **16 inches (406 mm)** long with two hooks.
 3. Mounting: Chase mounting with welded anchor nuts on backplate.
- B. Materials:
1. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.
- C. Stainless-Steel Finish:
1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
 2. Polished Finish: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - a. Run grain of directional finishes with long dimension of each piece.
 - b. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
 - c. Directional Satin Finish: No. 4.

2.4 RECESSED, DETENTION TOILET TISSUE DISPENSER

- A. Recessed, Detention Toilet Tissue Dispenser: Minimum **5-inch diameter by 4-1/2 inches (127-mm diameter by 114 mm)** deep; formed from **0.062-inch- (1.57-mm-)** thick, stainless-steel sheet. Secure to wall with rear-mounting steel strap and adjustment bolts.
1. Products: Basis of design:
 - a. Norix: Model ITP-110.
 2. Face: **1-inch (25.4-mm)** lip around entire face.
- B. Materials:
1. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.
- C. Stainless-Steel Finish:
1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
 2. Polished Finish: Grind and polish surfaces to produce uniform finish, free of cross scratches.

- a. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- b. Directional Satin Finish: No. 4.

2.5 DETENTION MIRRORS

- A. Small, Integrally Framed Detention Mirror: Mirror and integral frame formed from a single sheet of 18 gauge thick stainless steel; with round corners.
 1. Size: Approximately 9-1/2 by 11 inches (241 by 279 mm).
 2. Mounting: Front mounting with security fasteners to 0.168-inch (4.27-mm) nominal-thickness, metallic-coated steel mounting plate.
 - 3.
- B. Materials:
 1. Type 430 Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.
- C. Finishes:
 1. Stainless-Steel Finish:
 - a. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
 - b. Polished Finish: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1) When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
 - 2) Mirrorlike Reflective, Nondirectional Polish: No. 8.

2.6 DETENTION GRAB BARS

- A. Grab Bars: 1-1/2 inches (38.1 mm) in diameter; formed from 0.038-inch- (0.95-mm-) thick, stainless-steel tubing, with 3-inch- (76.2-mm-) diameter flanges formed from 0.125-inch- (3.18-mm-) thick, stainless steel. Closure plates formed from 0.125-inch- (3.18-mm-) thick, stainless steel. All-welded construction.
 1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Norix IGS-36, 36" grab bar
 - b. Norix IGS-42, 42" grab bar
 2. Length: As indicated on Drawings.
 3. Mounting: Chase mounting with welded anchor nuts on backplate.
- B. Materials:
 1. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.

2. Stainless-Steel Tubing: ASTM A 1016 /A 1016M-08, austenitic stainless steel, Type 304, seamless.

C. Stainless-Steel Finish:

1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
2. Polished Finish: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - a. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
 - b. Directional Satin Finish: No. 4.

2.7 DETENTION SHOWER SEATS

- A. Shower Seats: Double-pan retractable, recessed shower seat with recessed handle. Approximately 35-inch by 25-inch overall size formed from 14-gauge thick, stainless-steel sheet. Seat pivots on solid 0.375-inch- (9.5-mm-) diameter stainless-steel rod and self-latches when closed. Minimum 750-lb. (340-kg) loading capacity.

1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Norix: ISS-200.

B. Materials:

1. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.

C. Stainless-Steel Finish:

1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
2. Polished Finish: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - a. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
 - b. Directional Satin Finish: No. 4.

~~2.8 SILL PASS / DEAL TRAY~~

- ~~A. Deal Tray: Stainless steel drop in model deal tray. Recessed into countertop or hollow metal frame opening for flush appearance. Level 1 bullet resistant.~~

- ~~1. Products: Subject to compliance with requirements, Basis of Design:
 - ~~a. Norix: IDT 100.~~~~

~~B. Materials:~~

- ~~1. Stainless Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.~~

- ~~2. 16 gauge stainless steel.~~

~~C. Stainless Steel Finish:~~

- ~~1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.~~

2-92.8 TRANSACTION DRAWER

- A. Transaction Drawer: Stainless steel self-opening and closing transaction area cover to prevent simultaneous customer and operator access. Engineered and sealed to restrict outside airflow and external environment penetration. Includes one built-in speaker compatible with pre-existing commercial intercom systems. UL® approved Level 3 bullet resistance. Unit designed to be installed in up to an 8" thick wall.
 1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Shure: Model # ~~670330~~ SPT353
- B. Installation:
 1. Coordinate with thickness of wall.

2-102.9 CUFF RING – MASONRY INSTALLATION

- A. Cuff Ring: Stainless steel recessed cuff ring for masonry installation. Recessed into wall for flush appearance. Masonry reinforcing shall be inserted through the vertical bar.
 1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Norix: ICR-200.
- B. Materials:
 1. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.
 2. 16-gauge stainless steel.
- C. Stainless-Steel Finish:
 1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

2-112.10 CUFF RING

- A. Cuff Ring: Stainless steel recessed cuff ring for masonry installation. Recessed into wall for flush appearance. Cast in place concrete installation. Concrete reinforcing shall be inserted through the vertical bar.
 1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Norix: ICR-200.
- B. Materials:

1. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666 or ASTM A 240/A 240M, austenitic stainless steel, Type 304.
 2. 16-gauge stainless steel.
- C. Stainless-Steel Finish:
1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

2.122.11 DETENTION SHOWER/PRIVACY CURTAIN

- A. Detention Shower Curtain: Flame Resistant. Anti-Bacterial, Anti Fungal, and Mildew Resistant. Can easily be cut to accommodate custom lengths on site, with no threads fraying. Original Velcro® brand tabs sealed every 10" along the top of each curtain. Durable vinyl-coated mesh screen curtain top (12") facilitates air flow. 16oz. Clear vinyl curtain base (12") to ensure safety & security. Privacy curtain middle is reinforced with a polyester scrim for greater rip stop.
- B. Detention Shower Track: Heavy duty, custom designed anodized aluminum curtain track includes secure end stop and bit. Pre-drilled holes. Stainless security mounting hardware and security bits.
- C. Curtain Tabs: ¾" x 6" hook Velcro® brand tabs are fastened molded slides. Adjustable curtain tabs shall be easily adjusted to pull away easily slides for increased security.
 1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Derby: Secure Shower Curtain System, Derby Industries, South Bend, IN. Phone: 866.233.4500

2.132.12 BURGLAR BARS

- A. Refer to the drawings.

2.142.13 TELEVISION AND WALL BRACKET

- A. OFCI: Owner Furnished and Contractor Installed.

2.152.14 KEY CABINET

- A. Key Cabinet:
 1. Products: Subject to compliance with requirements, Basis of Design:
 - a. Norix - Key Cabinet - IKC-300.
- B. Constructed of 10-gauge flanged steel plate, with all seams welded and ground smooth.

- C. Door constructed of 10-gauge flanged steel plate and mounted to cabinet shell with a heavy duty continuous hinge welded to door and cabinet.
- D. Door provided with mounting plate for institutional level tumbler dead bolt. (See Hardware Schedule for keying information.)
- E. Provide two (2) hinged key panels for mounting of keys. Cabinet shall accommodate 300 keys.
- F. Panels to be securely mounted on the interior of the cabinet with pivot pins so panel can be swung out for easy access.
- G. Contractor to paint after welding or mechanical attachment.
- H. Size: 24" high x 16-5/8" wide x 6-7/8" deep.
- I. One piece welded assembly, all welds neatly finished and all sharp edges ground smooth.
- J. Provide anchorage devices and security fasteners.
- K. Assembly shall be provided with one coat of zinc chromate primer.
- L. Locate per Owner's instructions.

2.162.15 FABRICATION

- A. Coordinate dimensions and attachment methods of detention toilet accessories with those of adjoining construction to produce integrated assemblies with closely fitting joints and with edges and surfaces aligned unless otherwise indicated.
- B. Shear and punch metals cleanly and accurately. Remove burrs.
- C. Form edges and corners to be free of sharp edges and rough areas. Fold back exposed edges of unsupported sheet metal to form a 1/2-inch- (12.7-mm-) wide hem on the concealed side, or ease edges to a radius of approximately 1/32 inch (0.8 mm) and support with concealed stiffeners.
- D. Form metal in maximum lengths to minimize joints. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- E. Weld corners and seams continuously to comply with referenced AWS standard and the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
 - 5. Weld before finishing components to greatest extent possible. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

- F. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure detention toilet accessories rigidly in place and to support expected loads. Build in straps, plates, and brackets as needed to support and anchor fabricated items to adjoining construction. Reinforce formed-metal units as needed to attach and support other construction.
- G. Cut, reinforce, drill, and tap detention toilet accessories to receive hardware, security fasteners, and similar items.
- H. Form exposed work true to line and level with accurate angles and surfaces. Grind off and ease edges unless otherwise indicated.
- I. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible. Use exposed security fasteners of type indicated or, if not indicated, flat-head (countersunk) security fasteners. Locate joints where least conspicuous.

2.172.16 SECURITY FASTENERS

- A. Operable only by tools produced by fastener manufacturer or other licensed fabricator for use on specific type of fastener. Drive-system type, head style, material, and protective coating as required for assembly, installation, and strength, and as follows:
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Acument Global Technologies North America.
 - b. Bryce Fastener.
 - c. Safety Socket LLC.
 - d. Tamperproof Screw Co., Inc.
 - e. Tamper-Pruf Screws.
 - 2. Drive-System Type: Pinned Torx.
 - 3. Fastener Strength: 120,000 psi (827 MPa).
 - 4. Socket Button Head Fasteners:
 - a. Heat-treated alloy steel, ASTM F 835 (ASTM F 835M).
 - b. Stainless steel, ASTM F 879 (ASTM F 879M), Group 1 CW.
 - 5. Socket Flat Countersunk Head Fasteners:
 - a. Heat-treated alloy steel, ASTM F 835 (ASTM F 835M).
 - b. Stainless steel, ASTM F 879 (ASTM F 879M), Group 1 CW.
 - 6. Socket Head Cap Fasteners:
 - a. Heat-treated alloy steel, ASTM A 574 (ASTM A 574M).
 - b. Stainless steel, ASTM F 837 (ASTM F 837M), Group 1 CW.
 - 7. Protective Coatings for Heat-Treated Alloy Steel:

- a. Zinc and clear trivalent chromium where indicated.
- b. Zinc phosphate with oil, ASTM F 1137, Grade I, or black oxide unless otherwise indicated.

2.182.17 SECURITY SEALANTS

- A. Use “pick proof” sealant specified in Section 07 9216.

2.192.18 ACCESSORIES

- A. Concealed Bolts: ASTM A 307, Grade A unless otherwise indicated.
- B. Cast-in-Place Anchors in Concrete: Fabricated from corrosion-resistant materials capable of sustaining, without failure, a load equal to four times the load imposed, as determined by testing according to ASTM E 488, conducted by a qualified testing agency; of type indicated below.
 1. Threaded or wedge type; galvanized ferrous castings, either ASTM A 47/A 47M malleable iron or ASTM A 27/A 27M cast steel. Provide bolts, washers, and shims as needed; hot-dip galvanized according to ASTM A 153/A 153M or ASTM F 2329.
- C. Embedded Plate Anchors: Fabricated from mild steel shapes and plates, minimum **3/16 inch (4.8 mm)** thick; with minimum **1/2-inch- (12.7-mm-)** diameter, headed studs welded to back of plate.
- D. Proprietary Built-in Masonry Anchors: Fabricated from **1/4-inch (6-mm)** nominal-thickness steel plate into 6-inch or 8-inch deep blocks matching size of concrete masonry units; with weld nuts attached on inside to receive field-bolted attachments.
 1. Products: Subject to compliance with requirements, Basis of Design:
 - a. M/Bed Block Systems, LLC.; M/Bed Block System.
 2. Finish: Factory primed for field painting for anchors with field-welded attachments.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of detention toilet accessories.
 1. Examine roughing-in for embedded and built-in anchors to verify actual locations of detention toilet accessory connections before detention toilet accessory installation.
 2. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of detention toilet accessories.

- B. Inspect built-in and cast-in anchor installations before installing detention toilet accessories to verify that anchor installations comply with requirements. Prepare inspection reports.
 - 1. Remove and replace anchors where inspections indicate that they do not comply with specified requirements. Reinspect after repairs or replacements are made.
 - 2. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.
- C. Verify locations of detention toilet accessories.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing detention toilet accessories to in-place construction. Include threaded fasteners for concrete and masonry inserts, security fasteners, and other connectors.
- B. Provide temporary bracing or anchors in formwork for items that are to be built into concrete or masonry or similar construction.
- C. Apply polyurethane security sealant around perimeter in a continuous ribbon on back of detention toilet accessories before installation.
- D. Security Fasteners: Install detention toilet accessories using security fasteners with head style appropriate for installation requirements, strength, and finish of adjacent materials. Provide stainless-steel security fasteners in stainless-steel materials.

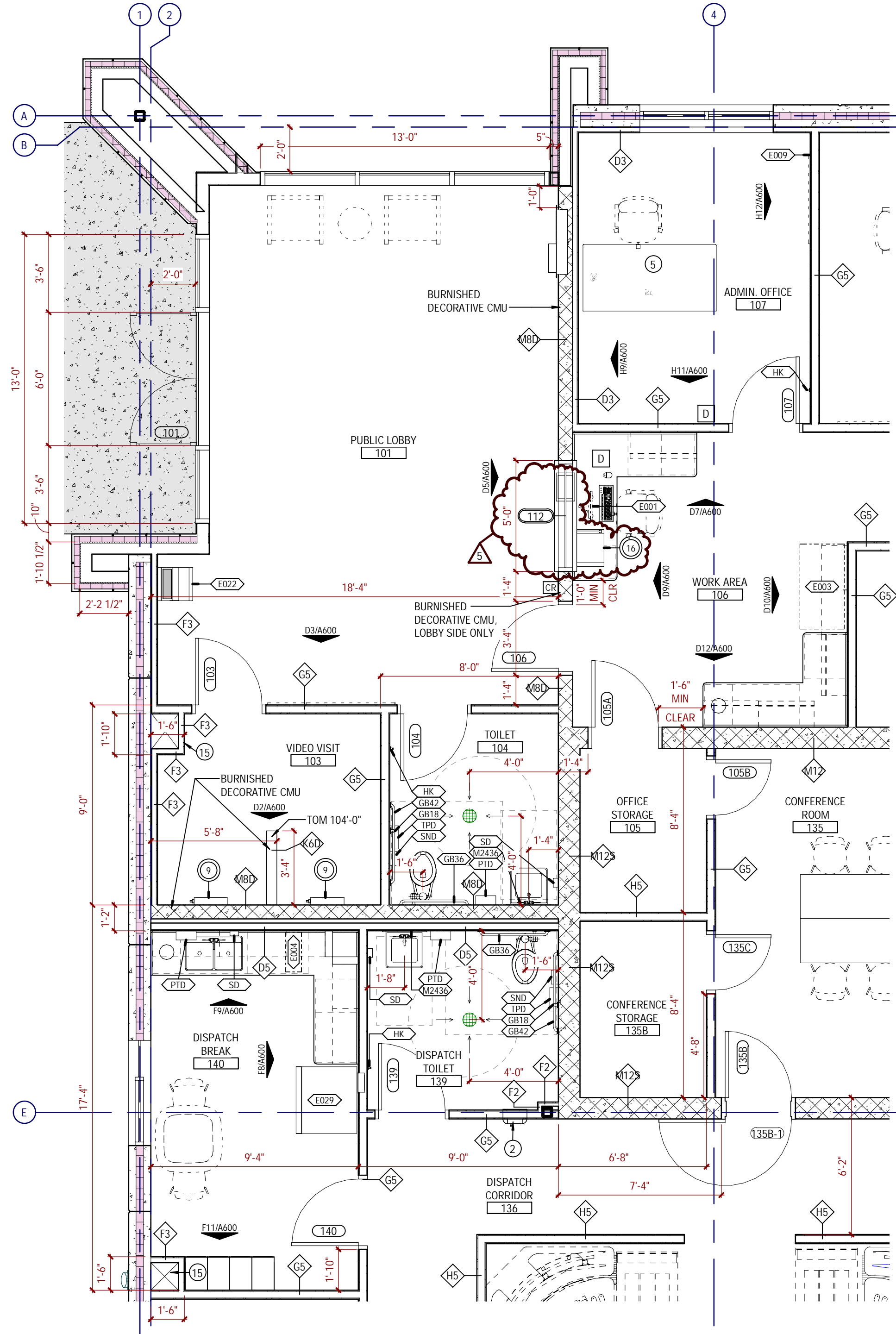
3.3 FIELD QUALITY CONTROL

- A. Inspect installed products to verify compliance with requirements. Prepare inspection reports and indicate compliance with and deviations from the Contract Documents.
- B. Remove and replace detention work where inspections indicate that work does not comply with specified requirements.
- C. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.

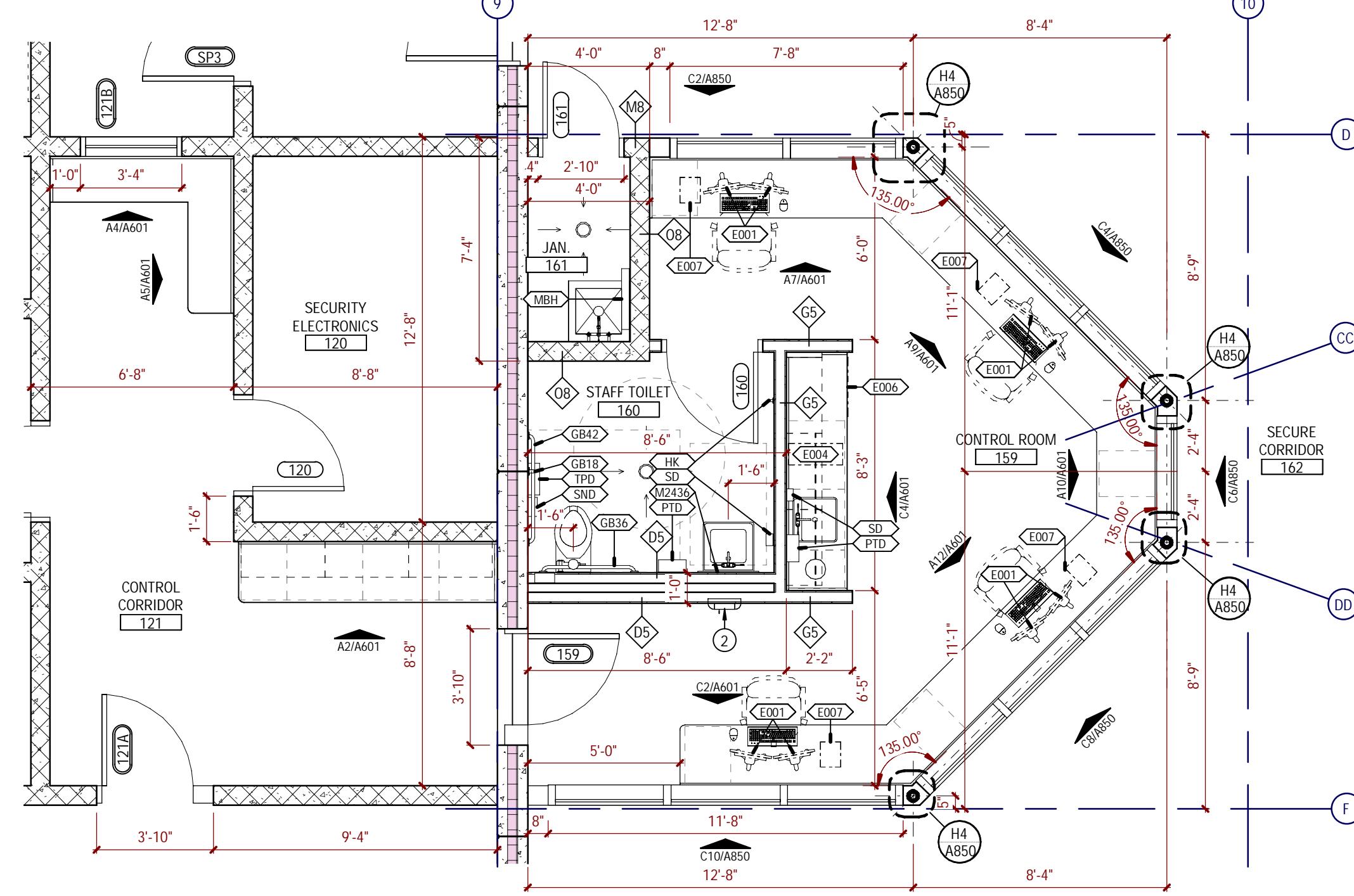
3.4 ADJUSTING AND CLEANING

- A. Remove temporary labels and protective coatings.
- B. Adjust safety hooks to release with application of 8-lbf (35.6-N) load.
- C. Touchup Painting: Cleaning and touchup painting of bolted connections and abraded areas of shop paint are specified in Section 09 9123 "Interior Painting."

END OF SECTION 10 2813.63



C1101 - DISPATCH BREAK, TOILETS, VIDEO VISIT
1/4" = 1'-0" (ASA/10)



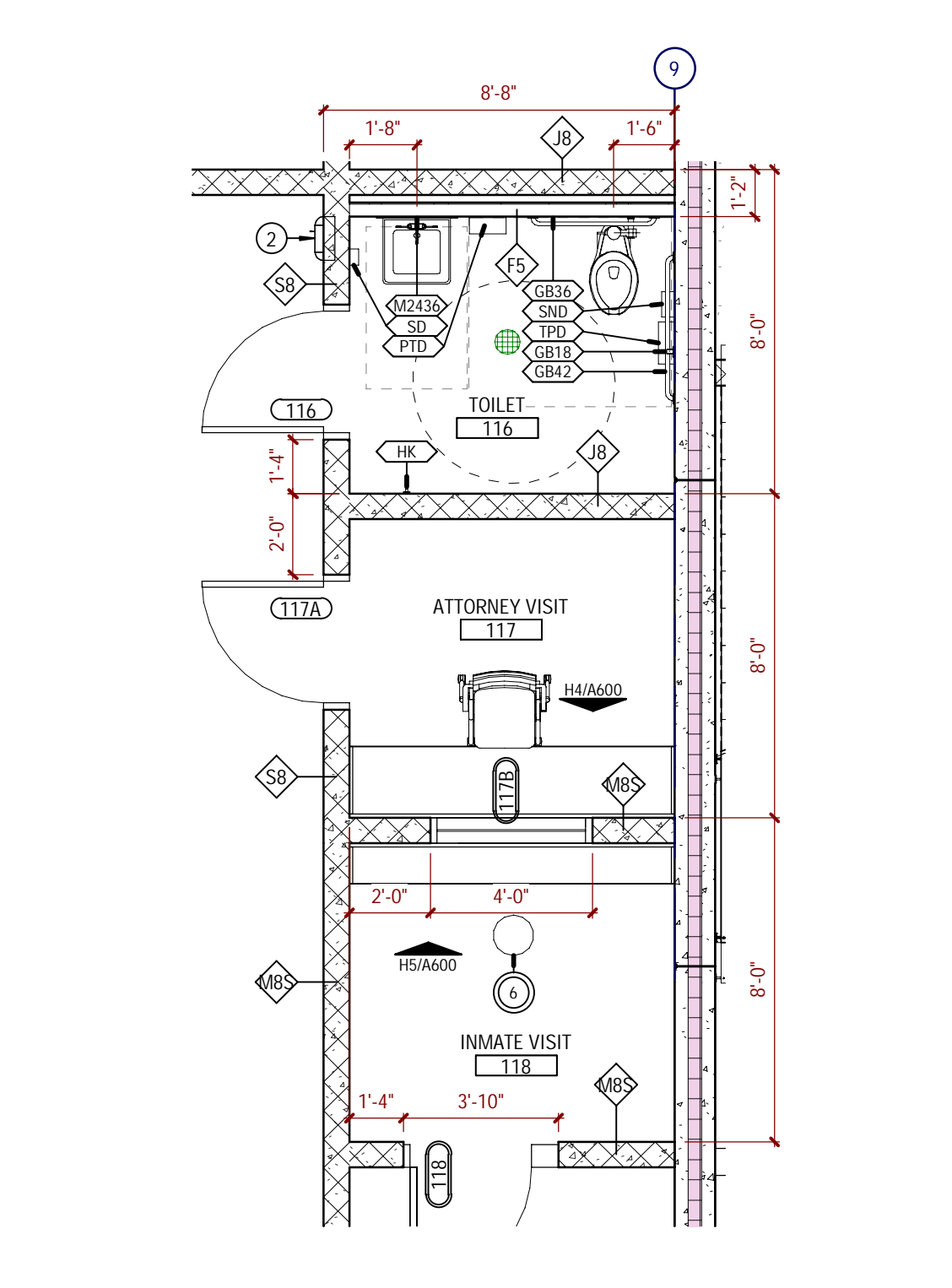
A10 CONTROL ROOM
1/4" = 1'-0" (ASA/10)

EQUIPMENT SCHEDULE			
CODE	ITEM DESCRIPTION	RESPONSIBILITY	COMMENTS
E001	Computer Monitor (Desktop)	X	
E002	Exam Table	X	
E003	Printer/Copy/Fax (Floor)	X	
E004	Coffee Maker	X	
E005	Microwave	X	
E006	DC Refrigerator	X	
E007	PHONE (DESKTOP)	X	
E008	Breathalyzer (Counter-top)	X	
E009	Tack Board	X	
E010	TRASH BIN (24 GAL)	X	
E011	Commercial Washer	X	SEE SECTION 11 1100
E012	Commercial Dryer (Gas)	X	SEE SECTION 11 1100
E013	AUTOMATED CONTROLLED SUBSTANCE DISPENSER	X	
E014	PAY STATION CLOCK	X	
E015	TV MONITOR (52")	X	CONTRACTOR TO PROVIDE BLOCKING
E016	32" ENCAUSTE MESSAGE MONITOR	X	CONTRACTOR TO PROVIDE BLOCKING
E017	Refrigerator (full-size w/ ice maker)	X	
E018	Marker Board	X	
E019	Folding Table	X	
E022	COMMISSARY KIOSK	X	
E023	RED BAG TRASH (24 GAL)	X	
E024	Mugshot Camera	X	
E025	Mugshot Photo Backdrop	X	
E026	Laundry Cart	X	
E027	32" ENCAUSTE MESSAGE MONITOR	X	CONTRACTOR TO PROVIDE BLOCKING
E028	BROCHURE BOX	X	
E029	Refrigerator/Freezer (full-size, w/ ice maker)	X	CONTRACTOR TO PROVIDE WATER LINE
E030	First Aid Box (wall-mounted)	X	
E031	Body Scanner	X	
E032	Wall-mounted Coat Rack (24" W)	X	
E033	Live Scan	X	

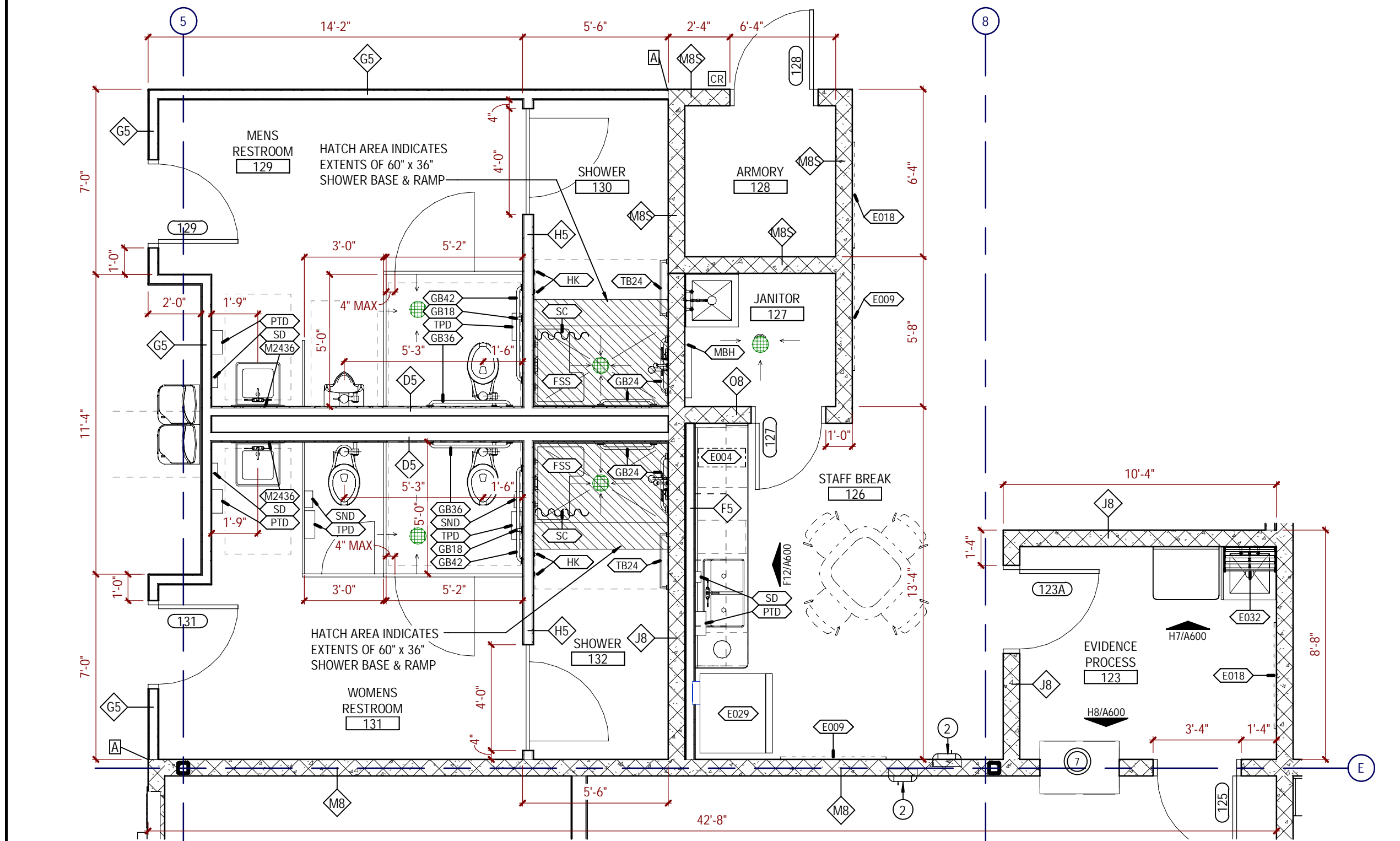
DETENTION EQUIPMENT			
CODE	ITEM DESCRIPTION	SPEC SECTION	PROVIDED BY
1	DETENTION MIRROR	10 2813.63	CFCI
2	SHELF WITH HOOK	10 2813.63	CFCI
4	WALL MOUNTED DOUBLE DETENTION DESK AND SEATS	12 5500	CFCI
5	WALL MOUNTED DOUBLE BUNK	12 5500	CFCI
6	FLOOR MOUNTED FIXED STOOL	12 5500	CFCI
7	EVIDENCE LOCKER (PASS-THRU) - 6 COMPARTMENTS	11 1916	CFCI
8	PISTOL LOCKER (RECESSED) - 6 COMPARTMENTS	11 1916	CFCI
9	VIDEO VISITATION MONITOR	...	CFCI
10	INMATE PHONE	11 1916	CFCI
11	PISTOL LOCKER (SURFACE MOUNTED) - 6 COMPARTMENTS	10 2813.63	CFCI
12	DETENTION GRAB BAR (42")	10 2813.63	CFCI
13	4-MAN TABLE	12 5500	CFCI
15	6-MAN TABLE	12 5500	CFCI
16	PACKAGE PASS	10 2813.63	CFCI
20	RECESSED COFFER HATCH	10 2813.63	CFCI
21	SECURITY INTERCOM	RE: MEP	CFCI

- ### GENERAL FLOOR PLAN NOTES
- WHERE PARTITIONS OF VARIOUS THICKNESSES MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE FACES ARE STRAIGHT AND CONTINUOUS, UNLESS NOTED OTHERWISE.
 - ALL DOOR OPENINGS SHALL BE 4" FROM A PERPENDICULAR PARTITION TO THE OUTSIDE FACE OF FRAME UNLESS NOTED OTHERWISE.
 - SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER LOCATIONS WITH WALL HUNG EQUIPMENT TO PROVIDE PROPER COVERAGE.
 - TYPICAL GYPSUM BOARD PARTITION TYPE IS TYPE GS. ALL NEW GYPSUM BOARD PARTITIONS SHALL BE TYPE GS UNLESS NOTED OTHERWISE. PARTITIONS NOT DESIGNATED WITH A PARTITION TYPE SYMBOL SHALL BE TYPE GS.

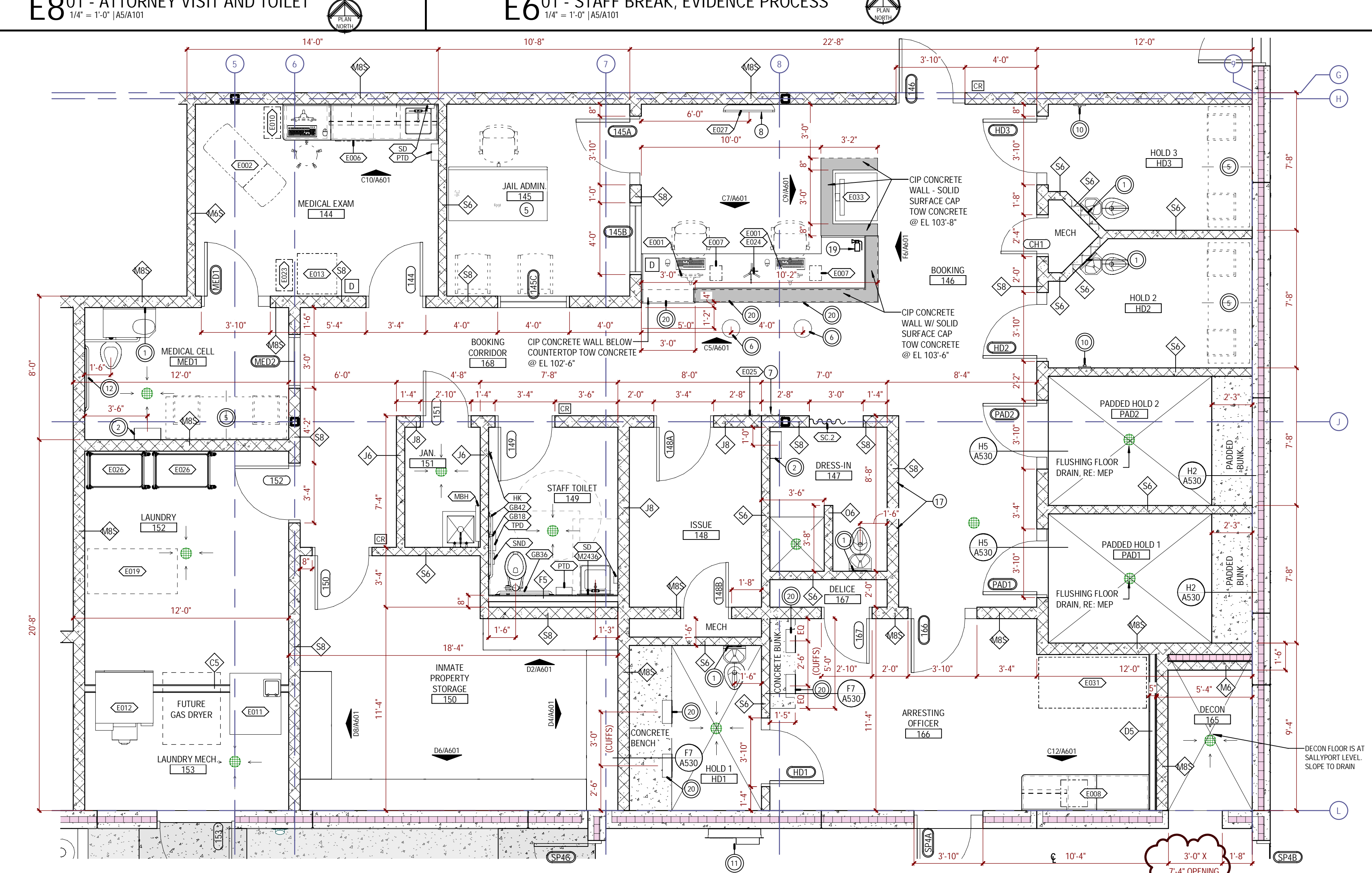
- ### FLOOR PLAN LEGEND
- NEW DOOR & FRAME
 - STOREFRONT DOOR & FRAME
 - NEW WALL
 - EXISTING WALL
 - INTERIOR ELEVATION TAG
 - EXTERIOR ELEVATION TAG
 - CALLOUT TAG
 - SECTION: BUILDING SECTION
 - SECTION: WALL SECTION
 - SECTION: DETAIL SECTION
 - COLUMN GRID LINE: NEW
 - COLUMN GRID LINE: EXISTING
 - EQUIPMENT TAG
 - FURNITURE TAG
 - DOOR & BORROWED LIGHT TAG
 - DOOR & BORROWED LIGHT TAG (DETENTION)
 - EXTERIOR WINDOW TAG
 - PARTITION TYPE TAG
 - CURTAIN WALL / STOREFRONT TAG
 - ROOM NAME & NUMBER TAG
 - ALIGN FACE OF MATERIALS SYMBOL
 - CARD READER
 - DOOR OPERATOR / TOUCHLESS ACTUATOR
 - FLOOR PLAN / FINISH PLAN KEYNOTE
 - DURESS BUTTON



E801 - ATTORNEY VISIT AND TOILET
1/4" = 1'-0" (ASA/10)



E601 - STAFF BREAK, EVIDENCE PROCESS
1/4" = 1'-0" (ASA/10)



A801 - BOOKING, MEDICAL, HOLDING
1/4" = 1'-0" (ASA/10)

- ### FLOOR PLAN KEYNOTES
- 4" WIDE PAINTED LINE ON THE FLOOR
 - SEMI-RECESSED FIRE EXTINGUISHER CABINET
 - SURFACE MOUNTED FIRE EXTINGUISHER CABINET
 - ACCESS LADDER, RE: STRUCTURAL
 - OFFICE FURNITURE (CFO)
 - PROVIDE 3/4" FIRE-TREATED PLYWOOD PANELS TO FACE OF GYP BD AS REQUIRED FOR FIRE ALARM CONTROL PANEL. DO NOT PAINT ENTIRE PLYWOOD PANEL. LEAVE AT LEAST ONE FIRE-TREATED LABEL VISIBLE ON EACH PANEL.
 - MUGSHOT PHOTO BACKDROP TO BE ALIGNED WITH MUGSHOT CAMERA AT BOOKING DESK
 - MONITOR MOUNTED ON WALL AT 72" A.F.F. TO THE CENTERLINE
 - 4" DIA. CONCRETE BOLLARD TO CAUTION OVERHEAD CLEARANCE. RE: DETAIL A8AS3 PER FINISH PLAN
 - EXPANSION JOINT AT CMU PARTITION. RE: STRUCTURAL
 - EXTERIOR BOLLARDS. RE: CIVIL FOR DETAILS
 - CARD READER PEDESTAL. RE: SECURITY/ELECTRONICS
 - RECESS MOUNT KNOXBOX MOUNTED @ 48" TO CENTER OF BOX
 - FUTURE MANUAL ROLLING STORAGE BY OTHERS. FLOOR TRACKS TO BE MOUNTED ON THE CONCRETE SLAB.
 - PIPE CHASE FOR ROOF STORM DRAINS
 - PICK-PROOF SEALANT AT EACH SIDE OF COLUMN. TYPICAL
 - FLUSHING FLOOR DRAIN VALVE COVER, RE: MEP
 - SOUTHERN STEEL TORNA-2 GATE LOCKSET. USE G-MOUNT ON GATE.
 - FIRE EXTINGUISHER

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BID & PERMIT

KLINGNER ARCHITECT PROJECT #
22-4046

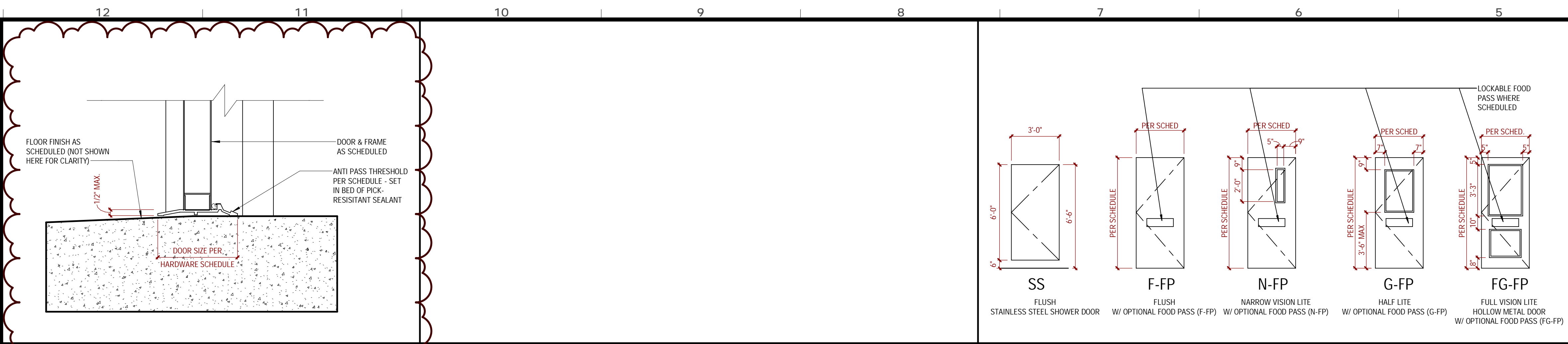
Date: 03/01/2024

Issue	Date
2 Addendum 02	03-20-2024
5 Addendum 05	04-18-2024

Drawn by: Author

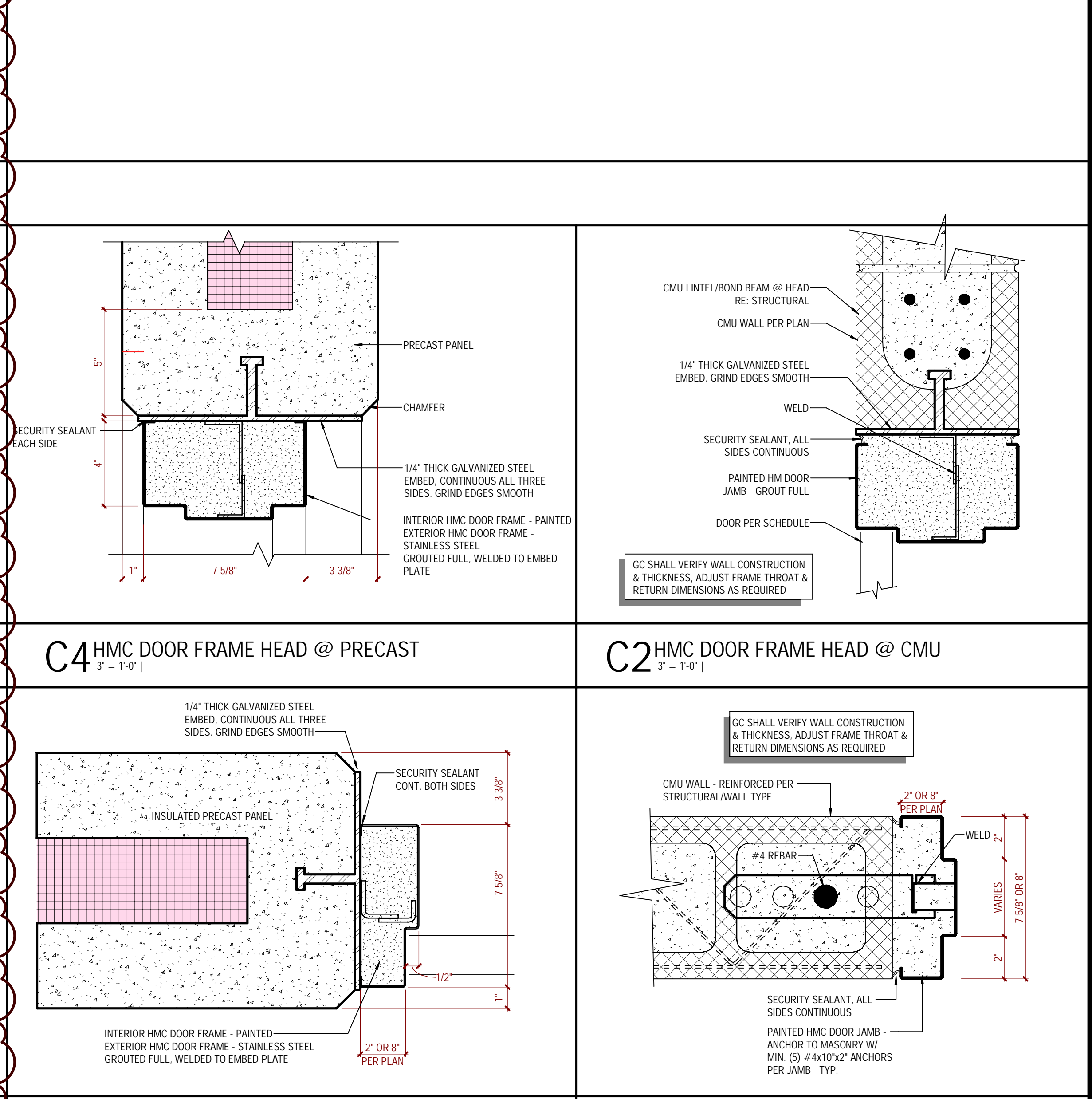
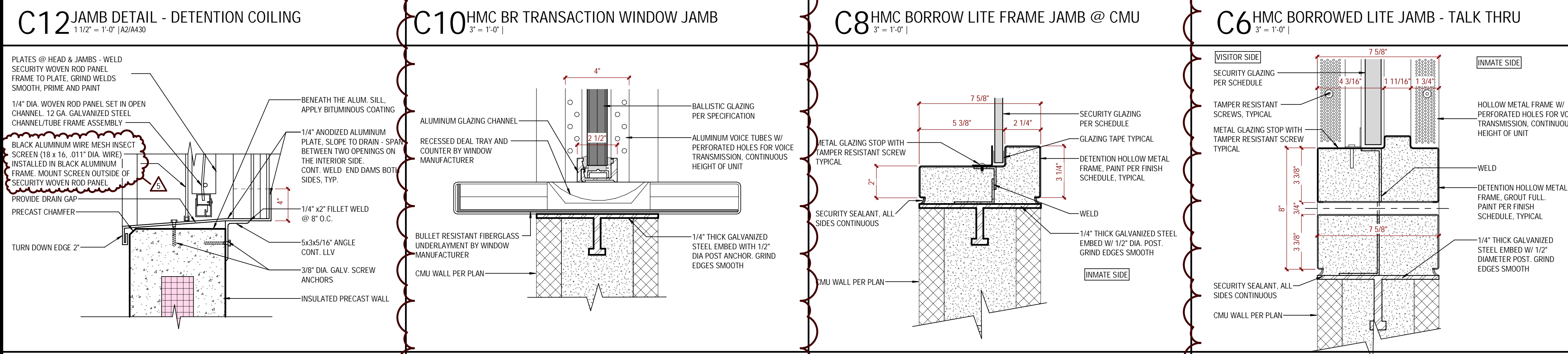
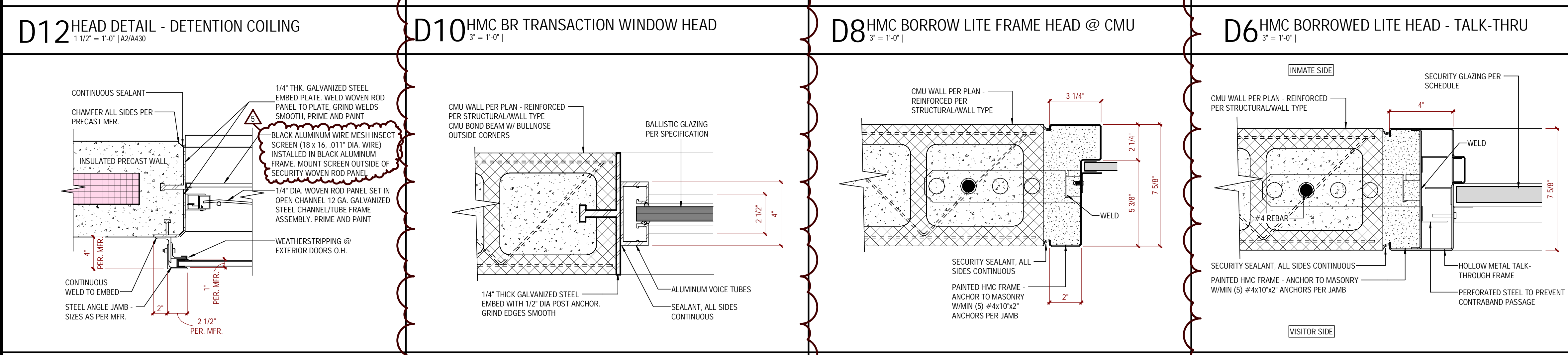
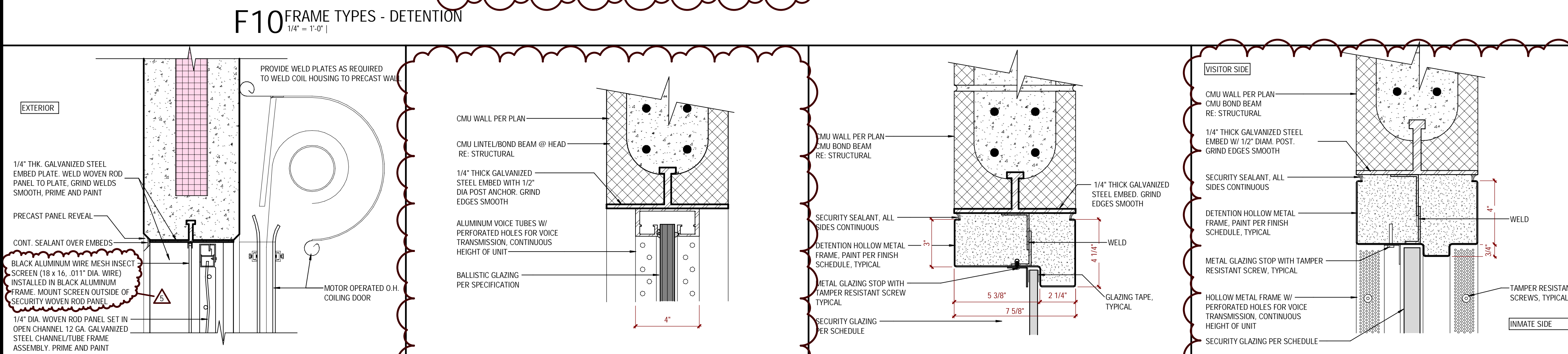
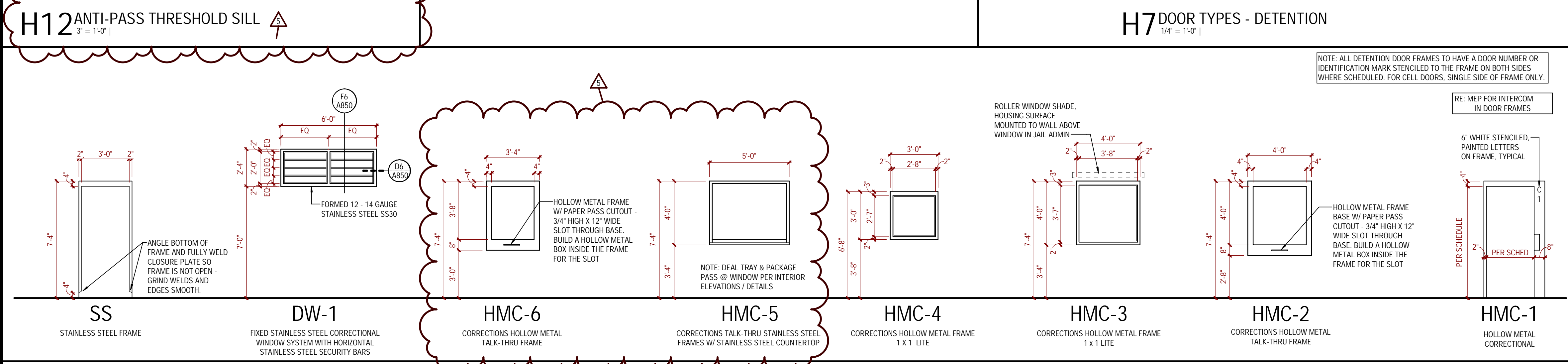
ENLARGED PLANS

A130



OPENING SCHEDULE (DETENTION)

MARK	Frame Type	OPENING (REFER TO OPENING NOTES BELOW)				FRAME DETAILS (A801 UNO)			FIRE RATING	SMOKE CONTROL	HARDWARE SET	COMMENTS	Revision #	
		WIDTH	HEIGHT	THICKNESS	DOOR TYPE	HEAD	JAMB	SILL						
FIRST FLOOR														
112	HMC-5	5'-0"	4'-0"	0"	---	D10	C10		n/a	No		Borrowed lite w/ Talk-thru jamb - Transaction window w/ deal tray		
117B	HMC-2	4'-0"	4'-0"	0"	---	D6	C6		n/a	No		Borrowed lite w/ Talk-thru jamb - Transaction window w/ paper pass		
121A	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2					
121B	HMC-6	3'-4"	3'-8"	0"	---	S62						Borrowed lite w/ Talk-thru jamb - Transaction window w/ deal tray		
122	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2					
145A	HMC-3	3'-0"	7'-0"	2"	F SHM	---	---							
145B	HMC-3	4'-0"	4'-0"	0"	---	SG3	---					Fixed borrowed Lite		
145C	HMC-3	4'-0"	4'-0"	0"	---	SG3	---					Fixed borrowed Lite		
146	HMC-3	3'-0"	7'-0"	2"	N SHM	SG2	SHM	C2	A2			Card Reader to enter		
154	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2					
155A	HMC-4	4'-0"	7'-0"	2"	N SHM	SG2M	SHM	C2	A2			Interlocked with #155B		
159	HMC-3	3'-0"	7'-0"	2"	N SHM	SG2M	SHM	C4	A4					
162A	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C4	A4	H12	n/a	Card Reader to enter		
162B	HMC-3	3'-0"	7'-0"	2"	N SHM	SG2M	SHM	C4	A4	H12	n/a	Card Reader to enter		
166	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2					
A11	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
B10	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
B11	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
C1	HMC-3	3'-0"	7'-0"	2"	F SHM	---	---							
C10	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
C11	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
D1	HMC-3	3'-0"	7'-0"	2"	F SHM	---	---							
D10	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
D11	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
E10	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
E11	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
EXC1	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM	C4	A4	H12	n/a		
EXC2	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM	C4	A4	H12	n/a		
EXC3	HMC-3	3'-0"	7'-0"	2"	F SHM	---	---							
EXC4	HMC-3	3'-0"	7'-0"	2"	N SHM	SG2M	SHM	C4	A4	H12	n/a			
F11	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
H01	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG1	SHM	C2	A2	H12	n/a		
H02	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM	C2	A2	H12	n/a		
H03	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM	C2	A2	H12	n/a		
MED1	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG2M	SHM	C2	A2	H12	n/a		Pan Shutter
MED2	HMC-4	3'-0"	3'-0"	0"	---	SG2								
PAD1	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG2M	SHM	C2	A2	H12	n/a		
PAD2	HMC-3	3'-0"	7'-0"	2"	N-FP	SHM	SG2M	SHM	C2	A2	H12	n/a		
PODA	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM						
PODB	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM						
PODC	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM						
PODD	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM						
PODE	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM						
PODF	HMC-3	3'-0"	7'-0"	2"	FG-FP	SHM	SG2M	SHM						
SA1	HMC-3	3'-0"	6'-0"	2"	N SS	---	---							
SA1	HMC-3	3'-0"	6'-0"	2"	N SS	---	---							
SP1A	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2					
SP1B	HMC-3	3'-0"	7'-0"	2"	F SHM	SG1	SHM	C2	A2					
SP2A	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2					
SP2B	HMC-3	3'-0"	7'-0"	2"	F SHM	SG1	SHM	C2	A2					
SP3	HMC-3	3'-0"	7'-0"	2"	N SHM	SG2	SHM	C2	A2					
SP4A	HMC-3	3'-0"	7'-0"	2"	F SHM	---	---							
SP4B	HMC-3	3'-0"	7'-0"	2"	F SHM	---	---							
SP4C	HMC-3	3'-0"	7'-0"	2"	F SHM	---	---							
MEZZANINE														
B20	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
B21	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
B22	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
D20	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
D21	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
D22	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
D20	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
D21	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			
D22	HMC-3	3'-0"	7'-0"	2"	N SHM	SG1	SHM	C2	A2	H12	---			



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KLINGNER ARCHITECT PROJECT #
22-4046
Date: 03/01/2024

Issue	Date
2 Addendum 02	03-20-2024
5 Addendum 05	04-18-2024

Drawn by: JR

DETENTION OPENING SCHEDULE AND DETAILS
A801

**SECTION 03 3000
CAST-IN-PLACE CONCRETE**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Foundations
- B. Concrete Slabs on Metal Deck
- C. Concrete for composite floor construction.
- D. Floors and slabs on grade.
- E. Concrete foundation walls.
- F. Joint devices associated with concrete work.
- G. Miscellaneous concrete elements, including equipment pads, light pole bases, flagpole bases, and bollards.
- H. Concrete curing.
- I. Other items as indicated on drawings

1.2 RELATED REQUIREMENTS

- A. Section 03 1000 - Concrete Forming and Accessories: Forms and accessories for formwork.
- B. Section 03 2000 - Concrete Reinforcing.
- C. Section 03 3511 - Concrete Floor Finishes: Densifiers, hardeners, applied coatings, and polishing.
- D. Section 07 9200 - Joint Sealants: Products and installation for sealants and joint fillers for saw cut joints and isolation joints in slabs.
- E. Section 32 1313 - Concrete Paving: Sidewalks, curbs and gutters.

1.3 REFERENCE STANDARDS

- A. ACI CODE-318 - Building Code Requirements for Structural Concrete and Commentary; 2019 (Reapproved 2022).
- B. ACI PRC-211.1 - Selecting Proportions for Normal-Density and High Density-Concrete - Guide; 2022.

ADDENDUM 5

- C. ACI 305.1 - Specification for Hot Weather Concreting; 2014.
- D. ACI 306.1 - Standard Specification for Cold Weather Concreting; 2015.
- E. ACI 308.1 - Specification for Curing Concrete; 2011.
- F. ACI PRC-302.1 - Guide to Concrete Floor and Slab Construction; 2015.
- G. ACI SPEC-301 - Specifications for Concrete Construction; 2020.
- H. ASTM C31/C31M - Standard Practice for Making and Curing Concrete Test Specimens in the Field; 2024.
- I. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2023.
- J. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2023.
- K. ASTM C42/42M - Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete; 2020.
- L. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete; 2024.
- M. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens); 2021.
- N. ASTM C138/C138M - Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete; 2023.
- O. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete; 2020.
- P. ASTM C150/C150M - Standard Specification for Portland Cement; 2022.
- Q. ASTM C156 - Standard Test Method for Water Loss [from a Mortar Specimen] Through Liquid Membrane-Forming Curing Compounds for Concrete; 2020.
- R. ASTM C171 - Standard Specification for Sheet Materials for Curing Concrete; 2020.
- S. ASTM C172/C172M - Standard Practice for Sampling Freshly Mixed Concrete; 2017.
- T. ASTM C173/C173M - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method; 2023.
- U. ASTM C231/C231M - Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method; 2022.
- V. ASTM C260/C260M - Standard Specification for Air-Entraining Admixtures for Concrete; 2010a (Reapproved 2016).
- W. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete; 2019.

ADDENDUM 5

- X. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete; 2019, with Editorial Revision (2022).
- Y. ASTM C595/C595M - Standard Specification for Blended Hydraulic Cements; 2021.
- Z. ASTM C618 - Standard Specification for Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete; 2023, with Editorial Revision.
- AA. ASTM C827/C827M - Standard Test Method for Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures; 2023.
- BB. ASTM C845/C845M - Standard Specification for Expansive Hydraulic Cement; 2018.
- CC. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete; 2020a.
- DD. ASTM C989/C989M - Standard Specification for Slag Cement for Use in Concrete and Mortars; 2022.
- EE. ASTM C1064/C1064M - Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete; 17.
- FF. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.
- GG. ASTM C1157 - Standard Performance Specification for Hydraulic Cement; 2010.
- HH. ASTM C1202 - Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration; 2019.
- II. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete; 2019.
- JJ. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete; 2022.
- KK. ASTM D1752 - Standard Specification for Preformed Sponge Rubber, Cork, and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction; 2018 (Reapproved 2023).
- LL. ASTM D5084 - Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter; 2016a.
- MM. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2023.
- NN. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2022.
- OO. ASTM E1155 - Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers; 2020.

ADDENDUM 5

- PP. ASTM E1155M - Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers (Metric); 2014.
- QQ. ASTM E1643 - Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs; 2018a.
- RR. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs; 2017 (Reapproved 2023).

1.4 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
 - 1. For curing compounds, provide data on method of removal in the event of incompatibility with floor covering adhesives.
 - 2. For membrane-forming, moisture emission-reducing, curing and sealing compound, provide manufacturer's installation instructions.
 - 3. Submit data on vapor barrier materials include tape and accessories.
- C. Material Certificates: Submit material certificates signed by the manufacturer for the following:
 - 1. Admixtures
 - 2. Cementitious Materials
 - 3. Coarse Aggregate
 - 4. Fine Aggregate
- D. Design Data:
 - 1. Mix Design: Submit proposed concrete mix design.
 - a. Indicate proposed mix design complies with requirements of ACI SPEC-301.
 - b. Indicate proposed mix design complies with requirements of ACI CODE-318.
 - c. Indicate proposed mix design complies with admixture manufacturer's written recommendations.
 - 2. Submit concrete mix design for each concrete strength. Submit separate mix designs when admixtures are required for the following:
 - a. Include justification of concrete strength per ACI SPEC-301.

ADDENDUM 5

- b. Hot and cold weather concrete work.
- c. Air entrained concrete work.
- 3. Identify mix ingredients and proportions, including admixtures.
- 4. Identify chloride content of admixtures and whether or not chloride was added during manufacture.
- E. Samples: Submit samples of underslab vapor retarder to be used.
- F. Test Reports: Submit report for each test or series of tests specified.
- G. Manufacturer's Installation Instructions: For concrete accessories, indicate installation procedures and interface required with adjacent construction.
- H. Project Record Documents: Accurately record actual locations of embedded utilities and components that will be concealed from view upon completion of concrete work.
- I. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.5 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Accurately record actual locations of embedded utilities and components concealed from view in finished construction.

1.6 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI SPEC-301 and ACI CODE-318.
- B. Conform to ACI 305.1 when concreting during hot weather.
- C. Conform to ACI 306.1 when concreting during cold weather.
- D. Acquire cement and aggregate from one source for Work.
- E. Fire Rated Construction: Rating as indicated on Drawings.
 - 1. Tested Rating: Determined in accordance with ASTM E119.
- F. Perform Work in accordance with State and local standards.
- G. For slabs required to include moisture vapor reducing admixture (MVRA), do not proceed with placement unless manufacturer's representative is present for every day of placement.

1.7 ENVIRONMENTAL REQUIREMENTS

ADDENDUM 5

- A. Maintain concrete temperature after installation at minimum 50 degrees F for minimum 7 days.
- B. Maintain high early strength concrete temperature after installation at minimum 50 degrees F for minimum 5 days.

1.8 COORDINATION

- A. Coordinate placement of joint devices with erection of concrete formwork and placement of form accessories.

1.9 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Slabs with Porosity Inhibiting Admixture (PIA) or Moisture Vapor Reducing Admixture (MVRA): Provide warranty to cover cost of flooring failures due to moisture migration from slabs for life of the concrete.
 - 1. Include cost of repair or removal of failed flooring, placement of topical moisture remediation system, and replacement of flooring with comparable flooring system.
- C. Moisture Emission-Reducing Curing and Sealing Compound, Membrane-Forming: Provide warranty to cover cost of flooring delamination failures for 10 years.
 - 1. Include cost of repair or removal of failed flooring, remediation with a moisture vapor impermeable surface coating, and replacement of flooring with comparable flooring system.
- D. Moisture Emission-Reducing Curing and Sealing Compound, Penetrating: Provide non-prorated warranty to cover cost of flooring delamination failures for 20 years.
 - 1. Include cost of repair or removal of failed flooring, remediation with a moisture vapor impermeable surface coating, and replacement of flooring with comparable flooring system.

PART 2 PRODUCTS

2.1 FORMWORK

- A. Comply with requirements of Section 03 1000.

2.2 REINFORCEMENT MATERIALS

- A. Comply with requirements of Section 03 2000.

2.3 CONCRETE MATERIALS

- A. Cement: ASTM C150/C150M, Type II - Moderate Sulfate Resistance Portland type, gray.
 - 1. Acquire cement for entire project from same source.
- B. Blended Cement: ASTM C595/C595M; Type IP (25% Class F), Type IL, or Type IL(LH), gray.
 - 1. Acquire cement for entire project from same source.
- C. Supplementary Cementitious Materials:
 - 1. Fly Ash: ASTM C618, Class F or Class C.
 - 2. Slag Cement: ASTM C989/C989M, Grades 100 or 120.
- D. Normal Weight Aggregates: Fine and Coarse Aggregates: ASTM C33/C33M.
 - 1. Coarse Aggregate Maximum Size: See concrete mix design, in accordance with ACI 318.
 - 2. Aggregate sources shall not have a history of alkali silica reactivity. If alkali silica reactivity is possible proportion the concrete mixture according to IDOT specifications to mitigate detrimental effects of potentially reactive aggregates.
- E. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete. potable, without deleterious amounts of chloride ions according to ACI CODE-318

2.4 ADMIXTURES

- A. All admixtures shall be sourced from a single manufacturer and be approved for use in the concrete mix design.
- B. Do not use chemicals that will result in soluble chloride ions in excess of 0.06 percent by weight of cement.
- C. Air Entrainment Admixture: ASTM C260/C260M.
- D. Water Reducing Admixture: ASTM C494/C494M Type A.
- E. Retarding Admixture: ASTM C494/C494M Type B.
- F. Water Reducing and Retarding Admixture: ASTM C494/C494M Type D.
- G. Water Reducing and Accelerating Admixture: ASTM C494/C494M Type E.
- H. High Range Water Reducing Admixture: ASTM C494/C494M Type F.
- I. High Range Water Reducing and Retarding Admixture: ASTM C494/C494M Type G.
- J. Specific performance admixtures: ASTM C494/C494M Type S.

ADDENDUM 5

1. Shall not affect strength development.
- K. Porosity Inhibiting Admixture (PIA): ASTM C494/C494M Type S: Liquid, inorganic admixture free of volatile organic compounds (VOCs) and reactive silicates. Closes capillary systems formed during concrete curing to reduce moisture vapor emission and transmission. Reduces alkali silicate reaction (ASR) and concrete shrinkage with no adverse effect on concrete properties or applied flooring or roofing.
 1. Provide admixture in slabs to receive adhesively applied flooring or roofing.
 2. Hydraulic Conductivity: $6 \times 10 \exp(-8)$ fps, minimum, when tested according to ASTM D5084.
- L. Moisture Vapor Reducing Admixture (MVRA): Liquid, inorganic admixture free of volatile organic compounds (VOCs). Closes capillary systems formed during concrete curing to reduce moisture vapor emission and transmission. Reduces concrete shrinkage with no adverse effect on concrete properties or applied flooring or roofing.
 1. Provide admixture in slabs to receive adhesively applied flooring and epoxy flooring.

2.5 ACCESSORY MATERIALS

- A. Vapor Barrier:
 1. ASTM E1745, Class A; 15-mil vapor barrier; type recommended for below grade application. Furnish joint tape recommended by manufacturer.
 2. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, prefabricated boots, etc., for sealing seams and penetrations.
 3. Products:
 - a. Poly-America; Husky Yellow Guard Class A 15-mil Vapor Barrier: www.yellowguard.com/#sle.
 - b. Stego Industries, LLC; Stego Wrap Vapor Barrier: www.stegoindustries.com/#sle.
 - c. W. R. Meadows, Inc; PERMINATOR Class A - 15-mil (0.38 mm): www.wrmeadows.com/#sle.
 - d. Substitutions: Permitted upon approval of Architect.
- B. Non-Shrink Cementitious Grout: Premixed compound consisting of nonmetallic aggregate, cement, water reducing and plasticizing agents.
 1. Grout: Comply with ASTM C1107/C1107M.
 2. Height Change, Plastic State; when tested in accordance with ASTM C827/C827M:
 - a. Maximum: Plus 4 percent.

ADDENDUM 5

- b. Minimum: Plus 1 percent.
3. Minimum Compressive Strength at 48 Hours, ASTM C109/C109M: 2400 pounds per square inch.
4. Minimum Compressive Strength at 28 Days, ASTM C109/C109M: 7,000 pounds per square inch.
5. Products containing aluminum powder are not permitted.

2.6 BONDING AND JOINTING PRODUCTS

- A. Epoxy Bonding System:
 1. Complying with ASTM C881/C881M and of Type required for specific application.
- B. Bonding Agent:
 1. Products:
 - a. Master Builders Solutions US LLC – Master Emaco ACH Series.
 - b. Euclid Chemical Company; Duralbond: www.euclidchemical.com/#sle.
 - c. Substitutions: Permitted upon approval of Architect.
- C. Joint Filler Type A: ASTM D1751 or ASTM D994; Asphalt impregnated fiberboard or felt, 1/2 inch thick (unless noted otherwise in drawings); tongue and groove profile.
- D. Joint Filler Type B: ASTM D1752; recycled PVC.
- E. Joint Filler Type C: ASTM D1752; Premolded sponge rubber.
- F. Slab Isolation Joint Filler: 1/2-inch thick, height equal to slab thickness, with removable top section forming 1/2-inch deep sealant pocket after removal.
 1. Material: ASTM D1752, sponge rubber (Type I).
- G. Sealant and Primer: As specified in Section 07 9200.

2.7 CURING MATERIALS

- A. Evaporation Reducer: Liquid thin-film-forming compound that reduces rapid moisture loss caused by high temperature, low humidity, and high winds; intended for application immediately after concrete placement.
- B. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound; complying with ASTM C309.

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1. Product dissipates within 4 to 6 weeks.
- C. Curing Agent, Water-Cure Equivalent Type: Clear, water-based, non-film-forming, liquid-water cure replacement agent.
1. Comply with ASTM C309 standards for water retention.
 2. Comply with ASTM C309 standards for water retention.
 3. Compressive Strength of Treated Concrete: Equal to or greater than strength after 14-day water cure when tested in accordance with ASTM C39/C39M.
 4. VOC Content: Zero.
- D. Curing and Sealing Compound, Moisture Emission-Reducing, Membrane-Forming: Clear, liquid sealer for application to newly-placed concrete; capable of providing adequate bond for flooring adhesives, initially and over the long term; with sufficient moisture vapor impermeability to prevent deterioration of flooring adhesives due to moisture emission.
1. Use this product to cure and seal all slabs to receive adhesively applied flooring or roofing.
 2. Comply with ASTM C309 and ASTM C1315 Type I Class A.
 3. VOC Content: Less than 100 g/L.
- E. Curing and Sealing Compound, Moisture Emission-Reducing, Penetrating: Clear, water-based, non-film-forming curing agent; capable of providing adequate bond for flooring adhesives, initially and over the long term; with sufficient moisture vapor impermeability to prevent deterioration of flooring adhesives due to moisture emission, moisture vapor emission, and alkalinity.
1. Use this product to cure and seal all slabs to receive adhesively applied flooring or roofing.
 2. Compressive Strength of Treated Concrete: Equal to or greater than strength after 28-day water cure when tested according to ASTM C39/C39M.
 3. Chloride Ion Resistance of Treated Concrete: Equal to or greater than strength after 28-day water cure when tested according to ASTM C1202.
 4. Comply with ASTM C309 and ASTM C1315 Type I Class A.
- F. Moisture-Retaining Sheet: ASTM C171.
1. Curing paper, regular.
 2. Polyethylene film, white opaque, minimum nominal thickness of 4 mil, 0.004 inch.
 3. White-burlap-polyethylene sheet, weighing not less than 3.8 ounces per square yard.

ADDENDUM 5

4. Provide a low permeance moisture-retaining cover that allows a moisture loss of no more than one pound per square yard in 72 hours when tested in accordance with ASTM C156. The material shall be non-staining and meet the requirements of ASTM C171.

2.8 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Comply with ACI 211.1.
 1. Aggregate sources shall not have a history of alkali silica reactivity. If alkali silica reactivity is possible proportion the concrete mixture according to IDOT specifications to mitigate detrimental effects of potentially reactive aggregates.
- B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI SPEC-301.
 1. For trial mixtures method, employ independent testing agency acceptable to Architect for preparing and reporting proposed mix designs.
- C. Admixtures: Add acceptable admixtures as recommended in ACI PRC-211.1 and at rates recommended or required by manufacturer.
- D. Admixtures: Include admixture types and quantities indicated in concrete mix designs only when approved by Architect.
 1. Use accelerating admixtures in cold weather. Use of admixtures will not relax cold weather placement requirements.
 2. Do not use calcium chloride nor admixtures containing calcium chloride.
 3. Use set retarding admixtures during hot weather.
 4. Add air entrainment admixture to concrete mix for work exposed to freezing and thawing, or deicing chemicals.
 5. For concrete exposed to deicing chemicals, limit fly ash, pozzolans, silica fume, metakaolin, and slag content as required by ACI 318.
- E. Normal Weight Concrete: Provide concrete to the following criteria:

1. Exterior concrete exposed to deicing chemicals (Structural Stoop Slabs):

Material and Property	Measurement
Compressive Strength (7 day)	3750 psi
Compressive Strength (28 day)	5000 psi
Cement Type	ASTM C150/C150M and ASTM C595/C595M
Cement Content (minimum)	658 pounds/cu yd
Aggregate Type	Normal weight
Water-Cement Ratio (maximum)	0.40 by weight

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Aggregate Size (maximum)	1 inch
Aggregate Size (minimum)	1/2 inch
Air Content	6.0 percent to 8.5 percent
Fly Ash Content	20 percent of cementitious materials by weight, maximum
Silica Fume Content	0 percent of cementitious materials by weight, maximum
Slag	15 percent of cementitious materials by weight, maximum
Slump	4 inches maximum prior to water reducer, 8 inches maximum after water reducer

2. Exterior concrete and concrete exposed to the weather or earth:

Material and Property	Measurement
Compressive Strength (7 day)	3300 psi
Compressive Strength (28 day)	4500 psi
Cement Type	ASTM C150/C150M and ASTM C595/C595M
Cement Content (minimum)	658 pounds/cu yd
Aggregate Type	Normal weight
Water-Cement Ratio (maximum)	0.42 by weight
Aggregate Size (maximum)	1 inch
Aggregate Size (minimum)	1/2 inch
Air Content	6.0 percent to 8.5 percent
Fly Ash Content	20 percent of cementitious materials by weight, maximum
Silica Fume Content	0 percent of cementitious materials by weight, maximum
Slag	15 percent of cementitious materials by weight, maximum
Slump	4 inches maximum prior to water reducer, 8 inches maximum after water reducer

3. Interior concrete:

Material and Property	Measurement
Compressive Strength (7 day)	3000 psi
Compressive Strength (28 day)	4000 psi
Cement Type	ASTM C150/C150M and ASTM C595/C595M
Cement Content (minimum)	564 pounds/cu yd
Aggregate Type	Normal weight
Water-Cement Ratio (maximum)	0.45 by weight
Aggregate Size (maximum)	1 inch
Aggregate Size (minimum)	1/2 inch
Air Content	0 percent to 3 percent

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Fly Ash Content	20 percent of cementitious materials by weight, maximum
Silica Fume Content	0 percent of cementitious materials by weight, maximum
Slag	15 percent of cementitious materials by weight, maximum
Slump	4 inches maximum prior to water reducer, 8 inches maximum after water reducer

- F. Average Compressive Strength Reduction: Permitted in accordance with ACI 318.

2.9 MIXING

- A. Ready Mixed Concrete: Mix and deliver concrete in accordance with ASTM C94/C94M.
- B. Site Mixed Concrete: Not permitted
- C. Adding Water: If concrete arrives on-site with slump less than suitable for placement, do not add water that exceeds the maximum water-cement ratio or exceeds the maximum permissible slump.
- D. Do not use expansive component in same concrete batch with MVRA or PIA.
- E. Do not use shrinkage-reducing admixture (SRA) in same concrete batch with MVRA or PIA.

2.10 LIQUID FLOOR TREATMENTS

- A. **Water and Chloride Ion Repelling Penetrating Sealer: Clear, solvent based Silane or Siloxane penetrating sealer which reacts chemically with the concrete surface to function as a Chloride Ion screen with a minimum 90% factor when tested in accordance with NCHRP #244, Series II, 100% solids, and applied in accordance with the manufacturer's recommendation.**
 - 1. **Products: Subject to compliance with requirements, provide one of the following:**
 - a. **BASF Corporation: MasterProtect H 1000.**
 - b. **Lyntal International, Inc.; Iso-flex 618-100 CRS.**
 - c. **Evonik Industries; Protectosil Chem-Trete BSM-400.**
 - d. **SpecChem, LLC: SpecSilane 100.**

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify requirements for concrete cover over reinforcement.
- B. Verify anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not interfere with placing concrete.
- C. Verify lines, levels, and dimensions before proceeding with work of this section.

3.2 PREPARATION

- A. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning with steel brush and applying bonding agent in according to bonding agent (where indicated on drawings) manufacturer's instructions. Remove laitance, coatings, and unsound materials.
 - 1. Use epoxy bonding system for bonding to damp surfaces, for structural load-bearing applications, and where curing under humid conditions is required.
 - 2. Do not use a latex bonding agent.
- B. Remove debris and ice from formwork, reinforcement, and concrete substrates.
- C. Remove water from areas receiving concrete before concrete is placed.
- D. Concrete can be place under water using tremie as approved by Architect.
- E. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade. Comply with ASTM E1643. Lap joints minimum 6 inches. Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions. Repair damaged vapor retarder before covering.
 - 1. Vapor Retarder Over Granular Fill: Install compactible granular fill before placing vapor retarder as indicated on drawings. Do not use sand.
- F. Install vapor barrier under interior slabs on grade in accordance with ASTM E1643; place sheets in position with longest dimension parallel with direction of pour.
 - 1. Level and compact base material
 - 2. Extend vapor barrier to the perimeter of the slab. If practicable, terminate it at the top of the slab, otherwise (a) at a point acceptable to the Architect or (b) where obstructed by impediments (such as dowels, water-stops, or any other site condition requiring early termination of the vapor barrier). At the point of termination, seal vapor barrier to the foundation wall, grade beam or slab itself.
 - 3. Lap joints minimum 6 inch and seal watertight by taping edges and ends.
 - 4. Apply seam tape to a clean and dry vapor barrier.

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5. Seal all penetrations (including pipes) per manufacturer's instructions
6. Avoid the use of non-permanent stakes driven through vapor retarder.
7. If non-permanent stakes are driven through vapor retarder, repair as recommended by vapor retarder manufacturer.
8. Repair vapor barrier damaged during placement of concrete reinforcing. Repair with vapor barrier material of same or better permeance, puncture, and tensile strength; lap over damaged areas minimum 6 inches and seal watertight by taping joints.

3.3 PLACING CONCRETE

- A. Place concrete in accordance with ACI 301.
- B. Notify testing laboratory and Architect minimum 48 hours prior to commencement of operations.
- C. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken. The Contractor shall collect and retain concrete batch trip tickets. The Contractor and Testing Laboratory shall immediately notify the Architect and each other of tickets which do not meet the specified criteria.
- D. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
- E. Place concrete continuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface mortar, by sandblasting or high-pressure water jetting.
- F. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.
- G. Deposit concrete at final position. Prevent segregation of mix.
- H. Place concrete in continuous operation for each panel or section determined by predetermined joints.
- I. Consolidate concrete.
- J. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- K. Place concrete continuously between predetermined expansion, control, and construction joints.
- L. Do not interrupt successive placement; do not permit cold joints to occur.
- M. Place floor slabs in saw cut pattern indicated.

3.4 SLAB JOINTING

ADDENDUM 5

- A. Locate joints as indicated on drawings.
- B. Anchor joint fillers and devices to prevent movement during concrete placement.
- C. Isolation Joints: Use preformed joint filler with removable top section for joint sealant, total height equal to thickness of slab, set flush with top of slab.
- D. Saw Cut Contraction Joints: Saw cut joints before concrete begins to cool, within 4 to 12 hours after placing; use 3/16 inch thick blade and cut at least 1 1/2 inch deep but not less than one quarter (1/4) the depth of the slab.
- E. Separate slabs on grade from vertical surfaces with 1/2 inch thick joint filler unless otherwise shown on the drawings.
- F. Place joint filler in floor slab pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.
- G. Extend joint filler from bottom of slab as required by Section 07 9200 for finish joint sealer requirements.
- H. Install construction joint devices in coordination with floor slab pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.
- I. Install joint device anchors. Maintain correct position to allow joint cover to be flush with floor and wall finish.
- J. Install joint covers in longest practical length, when adjacent construction activity is complete.
- K. Apply sealants in joint devices in accordance with Section 07 9200.

3.5 FLOOR FLATNESS AND LEVELNESS TOLERANCES

- A. Maximum Variation of Surface Flatness:
 - 1. Exposed Concrete Floors: 1/8 inch in 10 feet. Occur at wood floors and gymnasium floors.
 - 2. Under Seamless Resilient Flooring: 1/4 inch in 10 feet.
 - 3. Under Carpeting: 1/4 inch in 10 feet.
- B. Correct the slab surface if tolerances are less than specified.
- C. The minimum overall surface flatness shall be F_F35 , levelness shall be F_L25 , and local area minimums shall be F_F25 , F_L20 .
- D. Measure $F(F)$ Floor Flatness and $F(L)$ Floor Levelness in accordance with ASTM E1155 (ASTM E1155M), within 48 hours after slab installation; report both composite overall values and local values for each measured section.

- E. Correct the slab surface if composite overall value is less than specified.
- F. Correct defects by grinding or by removal and replacement of the defective work. Re-measure corrected areas by the same process.
- G. Areas that have floor drains shall not be required to meet the levelness tests.

3.6 CONCRETE FINISHING

- A. Repair surface defects, including tie holes, immediately after removing formwork.
- B. Unexposed Form Finish: Rub down or chip off fins or other raised areas 1/4 inch or more in height.
- C. Exposed Form Finish: Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows:
 - 1. Smooth Rubbed Finish: Wet concrete and rub with carborundum brick or other abrasive, not more than 24 hours after form removal.
- D. Provide formed concrete surfaces as follows:
 - 1. Rough formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 - a. Apply to concrete surfaces not exposed to public view.
 - 2. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 - a. Apply to concrete surfaces exposed to public view.
 - 3. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.
- E. Steel trowel surfaces receiving carpeting, resilient flooring, seamless flooring, thin set quarry tile or thin set ceramic tile.
- F. Steel trowel surfaces which are indicated to be exposed at interior spaces.
- G. Concrete Slabs: Finish to requirements of ACI PRC-302.1 and ACI SPEC-301, and as follows:
 - 1. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI PRC-302.1; thin floor coverings include carpeting, resilient flooring, seamless flooring, thin set quarry tile, and thin set ceramic tile.

ADDENDUM 5

2. Other Surfaces to Be Left Exposed: Trowel as described in ACI PRC-302.1, minimizing burnish marks and other appearance defects.
- H. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains 1/8 inch per foot.
- I. Finish concrete floor surfaces in accordance with ACI SPEC-301.

3.7 CURING AND PROTECTION

- A. Cure Concrete and floor surfaces in accordance with ACI SPEC-301.
- B. Comply with requirements of ACI 308.1. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
 1. Protect concrete footings from freezing until the concrete has reached the specified 28 day strength and a minimum of 5 days.
- C. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
 1. Normal concrete: Not less than seven days.
 2. High early strength concrete: Not less than four days.
- D. Formed Surfaces: Cure by moist curing with forms in place for full curing period.
- E. Surfaces Not in Contact with Forms:
 1. Slabs and Floors To Receive Adhesive-Applied Flooring: Curing compounds and other surface coatings are usually considered unacceptable by flooring and adhesive manufacturers. If such materials must be used, either obtain the approval of the flooring and adhesive manufacturers prior to use or remove the surface coating after curing to flooring manufacturer's satisfaction.
 2. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than three days by water ponding, water-saturated sand, water-fog spray, or saturated burlap.
 - a. Ponding: Maintain 100 percent coverage of water over floor slab areas, continuously for 7 days.
 - b. Spraying: Spray water over floor slab areas and maintain wet for 7 days.
 - c. Saturated Burlap: Saturate burlap-polyethylene and place burlap-side down over floor slab areas, lapping ends and sides; maintain in place.
 3. Final Curing: Begin after initial curing but before surface is dry.

ADDENDUM 5

- a. Moisture-Retaining Sheet: Lap strips not less than 3 inches and seal with waterproof tape or adhesive; secure at edges.
- b. Curing Compound: Apply in two coats at right angles, using application rate recommended by manufacturer.

3.8 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 01 4000 - Quality Requirements.
- B. The Owner shall engage a qualified testing and inspecting agency to perform field special structural inspections and testing in accordance with the applicable International Building Code and to submit reports.
- C. The contractor shall be responsible for scheduling the tests. The contractor shall be required to notify the owner's representative a minimum of 48 hours prior to all placement of concrete. The Contractor shall provide a minimum of 48 hours notification to the Special Inspector prior to needing an inspection. The Contractor shall verify all testing and Special Inspections have been completed and discrepancies corrected prior to covering the work.
- D. Provide free access to Work and cooperate with appointed firm. The Contractor shall provide access to the work so the Special Inspections and testing can be completed.
- E. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
- F. Tests of concrete and concrete materials may be performed at any time to ensure compliance with specified requirements.
- G. Concrete Inspections:
 1. Continuous Placement Inspection: Inspect for proper installation procedures.
 2. Periodic Curing Inspection: Inspect for specified curing temperature and procedures.
- H. Compressive Strength Tests: ASTM C39/C39M, for each test, mold and cure five concrete test cylinders.
- I. Strength Test Samples:
 1. Sampling Procedures: ASTM C172/C172M
 2. Cylinder Molding and Curing Procedures: ASTM C31/C31M, 4"x8" cylinder specimens, standard cured.
 3. Sample concrete and make one set of five cylinders for every 75 cu yds or less of each class of concrete placed each day and for every 5,000 sf of surface area for slabs.

ADDENDUM 5

4. When volume of concrete for any class of concrete would provide less than 5 sets of cylinders, take samples from five randomly selected batches, or from every batch when less than 5 batches are used.
 5. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
- J. Field Testing:
1. Slump Test Method: ASTM C143/C143M.
 2. Air Content Test Method: ASTM C231/C231M for normal weight concrete or ASTM C173/C173M.
 3. Temperature Test Method: ASTM C1064/C1064M.
 4. Measure slump, density, and temperature for each compressive strength concrete sample.
 5. Measure air content in air entrained concrete for each compressive strength concrete sample.
 6. Density Testing ASTM C138/C138M.
- K. Cylinder Compressive Strength Testing:
1. Test Method: ASTM C39/C39M.
 2. Test Acceptance: In accordance with ACI 301.
 3. Test one cylinder at 7 days.
 4. Test three cylinders at 28 days.
 5. Retain one cylinder for 56 days for testing when requested by Architect.
- L. Core Compressive Strength Testing: Notify Architect prior to core testing.
1. Sampling and Testing Procedures: ASTM C42/42M.
 2. Test Acceptance: In accordance with ACI SPEC-301.
 3. Drill three cores for each failed strength test from concrete represented by failed strength test. Locate reinforcing steel and avoid damaging reinforcing steel when cores are drilled.
- M. Test floor flatness and floor levelness per ASTM E1155. Floor levelness does not apply to unshored concrete slab-on-metal deck construction. Test structural floors prior to the removal of the formwork and shoring. Interpret and submit a summary of the test results with supporting data.

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- N. Maintain records of concrete placement. Record date, location, quantity, air temperature and test samples taken.
- O. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
- P. Slab Testing: Cooperate with manufacturer of specified moisture vapor reducing admixture (MVRA) to allow access for sampling and testing concrete for compliance with warranty requirements.
- Q. Test Results: The testing agency shall report test results in writing to Architect and Contractor within 24 hours of test.
- R. The testing agency shall notify the Architect and Contractor of potentially deficient or deficient concrete.

3.9 PATCHING

- A. Allow Architect to inspect concrete surfaces immediately upon removal of forms.
- B. Excessive honeycomb or embedded debris in concrete is not acceptable. Notify Architect upon discovery.
- C. Patch imperfections in accordance with ACI SPEC-301.

3.10 DEFECTIVE CONCRETE

- A. Defective Concrete: Concrete not complying with required lines, details, dimensions, tolerances or specified requirements.
- B. Repair or replacement of defective concrete will be determined by the Architect.
- C. The cost of additional testing shall be borne by Contractor when defective concrete is identified.
- D. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect for each individual area.

3.11 PROTECTION

- A. Do not permit traffic over unprotected concrete floor surface until fully cured.

END OF SECTION

SECTION 088000
GLAZING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:
 - 1. Doors.
 - 2. Storefront framing.
 - 3. Curtain wall framing.

1.2 SUBMITTALS

- A. Product Data: For each glass product and glazing material indicated.
- B. Samples: 12-inch- square, for opaque glass.
- C. Preconstruction Adhesion and Compatibility Test Report: From glazing sealant manufacturer.

1.3 DEFINITIONS

- A. Interspace: Space between lites of an insulating-glass unit that contains dehydrated air or a specified gas.
- B. Deterioration of Coated Glass: Defects developed from normal use that are attributed to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in metallic coating.
- C. Deterioration of Insulating Glass: Failure of hermetic seal under normal use that is attributed to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Provide glazing systems capable of withstanding normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, and installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Glass Design: Glass thickness designations indicated are minimums and are for detailing only. Confirm glass thicknesses by analyzing Project loads and in-service conditions. Provide glass lites in the thickness designations indicated for various size openings, but not less than

thicknesses and in strengths (annealed or heat treated) required to meet or exceed the following criteria:

1. Glass Thicknesses: Select minimum glass thicknesses to comply with ASTM E 1300, according to the following requirements:
 - a. Specified Design Wind Loads: As indicated.
 - 1) Basic Wind Speed: 120mph
 - 2) Importance Factor: Risk Category IV.
 - 3) Exposure Category: C.
 - b. Specified Design Snow Loads: As indicated, but not less than snow loads applicable to Project as required by ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 7.0, "Snow Loads."
 - c. Probability of Breakage for Vertical Glazing: 8 lites per 1000 for lites set vertically or not more than 15 degrees off vertical and under wind action.
 - 1) Load Duration: 3 seconds.
 - d. Minimum Glass Thickness for Exterior Lites: Not less than 6.0 mm.
 - e. Thickness of Tinted and Heat-Absorbing Glass: Provide the same thickness for each tint color indicated throughout Project.
- C. Thermal Movements: Provide glazing that allows for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures acting on glass framing members and glazing components. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
 1. Temperature Change (Range): 120°F, ambient; 180°F, material surfaces.
- D. Thermal and Optical Performance Properties: Provide glass with performance properties specified based on manufacturer's published test data, as determined according to procedures indicated below:
 1. For monolithic-glass lites, properties are based on units with lites 6.0 mm thick.
 2. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite 6.0 mm thick and a nominal 1/2-inch- wide interspace.
 3. Center-of-Glass Values: Based on using LBL-44789 WINDOW 5.0 computer program for the following methodologies:
 - a. U-Factors: NFRC 100 expressed as Btu/ sq. ft. x h x deg F.
 - b. Solar Heat Gain Coefficient: NFRC 200.
 - c. Solar Optical Properties: NFRC 300.

1.5 QUALITY ASSURANCE

- A. Glazing for Fire-Rated Door Assemblies: Glazing for assemblies that comply with NFPA 80 and that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 257.
- B. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.

1. GANA Publications: GANA Laminated Division's "Laminated Glass Design Guide" and GANA's "Glazing Manual."
 2. AAMA Publications: AAMA GDSG-1, "Glass Design for Sloped Glazing," and AAMA TIR-A7, "Sloped Glazing Guidelines."
 3. IGMA Publication for Sloped Glazing: IGMA TB-3001, "Sloped Glazing Guidelines."
 4. IGMA Publication for Insulating Glass: SIGMA TM-3000, "Glazing Guidelines for Sealed Insulating Glass Units."
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the **Insulating Glass Certification Council**.

1.6 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer's standard form, made out to Owner and signed by coated-glass manufacturer agreeing to replace coated-glass units that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.
1. Warranty Period: **10** years from date of Substantial Completion.
- B. Manufacturer's Special Warranty on Insulating Glass: Manufacturer's standard form, made out to Owner and signed by insulating-glass manufacturer agreeing to replace insulating-glass units that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.
1. Warranty Period: **10** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 GLASS PRODUCTS

- A. Annealed Float Glass: ASTM C 1036, Type I (transparent flat glass), Quality-Q3; of class indicated.
1. Ultra-Clear (Low-Iron) Float Glass: Class I (clear); with a minimum 91 percent visible light transmission and a minimum solar heat gain coefficient of 0.87.
- B. Insulating-Glass Units, General: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, and complying with ASTM E 774 for Class CBA units and with requirements specified in this Article and in Part 2 "Insulating-Glass Units" Article.
1. Provide Kind FT (fully tempered) glass in place of annealed glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements".
 2. Overall Unit Thickness and Thickness of Each Lite: Dimensions indicated for insulating-glass units are nominal and the overall thicknesses of units are measured perpendicularly from outer surfaces of glass lites at unit's edge.
 3. Sealing System: Dual seal.
 4. Spacer Specifications: Manufacturer's standard spacer material and construction.

5. Spacer Specifications: Manufacturer's standard spacer material and construction complying with the following requirements:

- a. Spacer Material: ~~Aluminum with mill 1/2" Black SS or clear anodic finish.~~
- b. Corner Construction: Manufacturer's standard corner construction.

2.2 GLAZING GASKETS

A. Dense Compression Gaskets: Molded or extruded gaskets of material indicated below, complying with standards referenced with name of elastomer indicated below, and of profile and hardness required to maintain watertight seal:

1. Neoprene, ASTM C 864.
2. EPDM, ASTM C 864.
3. Silicone, ASTM C 1115.
4. Thermoplastic polyolefin rubber, ASTM C 1115.
5. Any material indicated above.

B. Soft Compression Gaskets: Extruded or molded, closed-cell, integral-skinned gaskets of material indicated below; complying with ASTM C 509, Type II, black; and of profile and hardness required to maintain watertight seal:

1. Neoprene.
2. EPDM.
3. Silicone.
4. Thermoplastic polyolefin rubber.
5. Any material indicated above.

2.3 GLAZING SEALANTS

A. General: Provide products of type indicated, complying with the following requirements:

1. Compatibility: Select glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.

B. Glazing Sealants for Fire-Resistive Glazing Products: Identical to products used in test assemblies to obtain fire-protection rating.

2.4 GLAZING TAPES

A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based elastomeric tape with a solids content of 100 percent; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; packaged on rolls with a release paper backing; and complying with ASTM C 1281 and AAMA 800 for products indicated below:

1. AAMA 804.3 tape, where indicated.

2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; packaged on rolls with release liner protecting adhesive; and complying with AAMA 800 for the following types:
1. Type 1, for glazing applications in which tape acts as the primary sealant.
 2. Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.5 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions with a Shore, Type A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
- F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.
- G. Perimeter Insulation for Fire-Resistive Glazing: Identical to product used in test assembly to obtain fire-resistance rating.

2.6 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
- B. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
- C. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.
- D. Grind smooth and polish exposed glass edges and corners.

2.7 INSULATING-GLASS UNITS: Vision Panel V1 (See Glazing Legend on Sheet A300). Basis of Design: Guardian Glass SunGuard SNR 43 Crystal Gray.

A. Passive Solar Low-E Insulating-Glass Units:

1. Overall Unit Thickness and Thickness of Each Lite: 25 and 6.0 mm.
2. Interspace Content: 12.7mm wide, hermetically sealed, dehydrated 90% Argon space. 1/2" Black SS.
3. Outdoor Lite: Sputter-coated CrystalGray® glass.
 - a. CrystalGray® Glass: ASTM C 1036, Type 1, Class 2, Quality q3.
 - b. Vacuum Deposition Sputtered Coating: ASTM C 1376.
 - c. Low-E Coating: Coating on Surface No. 2: Guardian SunGuard SNR 43.
4. Additional information:
 - a. Annealed above 7'-0"
 - b. Kind FT (fully tempered) below 7'-0".
5. Indoor Lite: Clear Float Glass: ASTM C 1036, Type 1, Class 1, Quality q3.
 - a. Annealed above 7'-0"
 - b. Kind FT (fully tempered) below 7'-0".
6. Winter Nighttime U-Factor: 0.24 maximum.
7. Summer Daytime U-Factor: 0.212 maximum.
8. Solar Heat Gain Coefficient: 0.18 maximum.
9. Visible Light Transmittance: 31 %
10. Visible Light Reflectance Outdoors: 16 %

2.8 INSULATING-GLASS UNITS: Spandrel Panel S1 (See Glazing Legend on Sheet A300). Basis of Design: Spandrel Glass to replicate Vision Panel V1.

A. Passive Solar Low-E Insulating-Glass Units:

1. Overall Unit Thickness and Thickness of Each Lite: 25 and 6.0 mm.
2. Interspace Content: 12.7mm wide, hermetically sealed, dehydrated 90% Argon space. 1/2" Black SS.
3. Retain reference to ceramic-coated vision glass in last option in subparagraph below only if silk-screened coating is specified for outdoor lite.
4. Outdoor Lite: Sputter-coated CrystalGray® glass with Spandrel Coating.
 - a. CrystalGray® Glass: ASTM C 1036, Type 1, Class 2, Quality q3.
 - b. Vacuum Deposition Sputtered Coating: ASTM C 1376.
 - c. Low-E Coating: Coating on Surface No. 2: Guardian SunGuard SNR 43.
 - d. Annealed above 7'-0"
 - e. Kind FT (fully tempered) below 7'-0".
5. Indoor Lite: Class 1 (clear) float glass.
 - a. Annealed above 7'-0"
 - b. Kind FT (fully tempered) below 7'-0".

- c. **Spandrel Coating: Coating on Surface No. 4: Guardian Glass Deco HT Warm Gray.**
- 6. **Winter Nighttime U-Factor: 0.288 maximum.**
- 7. **Summer Daytime U-Factor: 0.212 maximum.**
- 8. **Solar Heat Gain Coefficient: 0.15 maximum.**
- 9. **Visible Light Transmittance: 0%**
- 10. **Visible Light Reflectance Outdoors: 18%**

PART 3 - EXECUTION

3.1 GLAZING

- A. General: Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
 - 1. Glazing channel dimensions, as indicated on Drawings, provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust as required by Project conditions during installation.
 - 2. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
 - 3. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction sealant-substrate testing.
 - 4. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
 - 5. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
 - 6. Provide spacers for glass lites where length plus width is larger than 50 inches.
 - 7. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- B. Tape Glazing: Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
 - 1. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.
 - 2. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
 - 3. Apply heel bead of elastomeric sealant.
 - 4. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
 - 5. Apply cap bead of elastomeric sealant over exposed edge of tape.
- C. Gasket Glazing (Dry): Fabricate compression gaskets in lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

1. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
 2. Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
 3. Install gaskets so they protrude past face of glazing stops.
- D. Sealant Glazing (Wet): Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
1. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
 2. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.2 CLEANING AND PROTECTION

- A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended by glass manufacturer.
- B. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.

END OF SECTION 088000

**SECTION 114000
FOOD SERVICE EQUIPMENT
ADDENDUM 5**

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Base Bid Kitchen

1. Food Service equipment and accessories
 - a. Utility rough-ins and facility preparation
 - b. Equipment
 - c. Installation
 - d. Start-up and training
 - e. Two (2) year service / extended warranty
2. All equipment provide power and electrical rough-in data to respective trade contactors for proper service.

1.2 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- B. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2023.
- C. ASTM C1036 - Standard Specification for Flat Glass; 2021.
- D. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
- E. FM (AG) - FM Approval Guide; current edition.
- F. ITS (DIR) - Directory of Listed Products; Current Edition.
- G. NEMA MG 1 - Motors and Generators; 2018.
- H. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- I. NFPA 96 - Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations; 2021.
- J. NSF 2 - Food Equipment; 2022.
- K. UL (DIR) - Online Certifications Directory; Current Edition.

1.3 RELATED WORK

- A. This work shall be coordinated with the General Construction, Electrical, Plumbing, Mechanical, Ventilating, and trades, and Fire Protection work. This Contractor shall review Mechanical, Plumbing, and Electrical Drawings and include the cost of additional utility extension and installation needed to complete the installation and make properly operable.
 - 1. When coordinating utilities provide accurate dimensional and utility requirements and power requirements.
 - 2. Inaccurate or untimely coordination information is the responsibility of the General Contractor.

- B. Specified Elsewhere
 - 1. DIVISION 22 – Plumbing
 - 2. DIVISION 23 HVAC – Ventilation
 - 3. DIVISION 26 – Electrical

- C. Intent
 - 1. Operable, properly install equipment.
 - 2. Comply with manufacturer's standards.
 - 3. Comply with health codes.
 - 4. Cooperate with Edgar County Health Department Environmental Division.
 - 5. Provide a functional serving kitchen.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week before starting work of this section.

1.5 QUALITY ASSURANCE

- A. Whenever the term "Food Service Equipment Supplier" or "Kitchen Subcontractor" is used, it shall mean the General Contractor and / or his assigned subcontractor.

- B. Any questions concerning these Specifications or Drawings shall be directed to the Architect.

- C. All equipment of brand name manufacturer shall be of the latest model or succeeding model at the date of the bidding documents.
 - 1. Equivalent equipment of alternative manufacturers may be submitted for consideration a minimum of ten (10) days before bidding.
 - a. Same features
 - b. Fit conditions and dimensions
 - c. Include any modifications of rough-ins needed.
 - d. Service vendors to allow same day service.

1.6 REGULATORY AGENCIES

A. All equipment and equipment manufacturers shall comply with the following:

1. National Sanitation Foundation (NSF) Standards
2. Federal and State and Local Health Codes
3. USDA, Illinois Dept. of Public Health
4. Edgar County Health Department, Environmental Health
5. NFPA 51, NFPA 96, NFPA / NEC
6. IBC 2006 / IMC 2006
7. Illinois Department of Public Health
8. Illinois Plumbing Code
9. All gas equipment to be UL and AGA approved
10. All electrical equipment shall bear Underwriter's label.

1.7 SUBMITTALS

A. Submit the following in accordance with Section 013219;

1. Manufacturer's literature: Description of each piece of equipment, including installation and operating instruction
2. Shop Drawings:
 - a. Within on hundred twenty (120) calendar days after award of contract, the Food Service Equipment Supplier shall furnish submittal data fully describing the proposed equipment, option dimensions and all information needed for utility requirements and locations.
 - b. Drawings / Schedule describing all rough-in and utility connection requirements.
 - 1) Dimensional locations of utilities
 - 2) Connection sizes
 - 3) Power requirements
 - 4) Sanitary connections or drain locations
3. At conclusion of work provide:
 - a. Operating and Maintenance Manuals.
 - b. Training, operating, cleaning, maintenance.
 - c. Service manuals and parts lists
 - d. Equipment Warranties.
 - e. Provide Certification of materials.

1.8 JOB CONDITION

A. Food service equipment supplier / installer shall visit the job site or coordinate with the General Contractor prior to installation of utility rough-ins.

1. Verify all hookups and locations of service.
2. Verify all capacities, i.e., amps, voltage, connection size, etc.
3. Provide sketch as needed for use by Mechanical/Electrical trade Contractors.

- B. The Food Service Equipment Supplier or as coordinated with the General Contractor shall visit the job site to check mechanical rough ins, prior to the pouring of the floor slabs and adjust as necessary of any discrepancies.
- C. Cost to relocate or add utility lines or services due to the failure of the Food Service Equipment Supplier or the assigned coordinator to verify their proper location prior to the pouring of the floor slabs will be assumed by the General Contractor and assigned as deemed appropriate.

1.9 PRODUCT DELIVERY, STORAGE & HANDLING

- A. Deliver, store and handle equipment so as to prevent damage, or disfigurement. Protect all surfaces with covering during transit. Provide temporary skids under units weighing more than 150 lbs. All damaged, or otherwise unsuitable, equipment when so ascertained shall be immediately removed from the job site and replaced with new.

1.10 SPECIAL WARRANTY

- A. All manufactured equipment shall carry equipment manufacturer's extended two (2) year guarantee dated from Substantial Completion acceptance of the Kitchen.
 - 1. Five (5) year refrigeration system extended warranty on refrigeration equipment including compressors, condenser coils and all internal refrigeration piping.
- B. The Contractor shall warrant the food service equipment work to be free of faults and defects in accordance with the General Conditions, except that the warranty shall include start up and periodic adjustments to get equipment functioning correctly. General maintenance and clean up per manufacturer's instruction is to be by Owner.

PART 2 - PRODUCTS

2.1 CUSTOM FABRICATED EQUIPMENT

- A. The following are basic specifications for items of custom fabricated equipment covering the type and quality of materials, the method of fabrication, assembly and design and will be referred to in the itemized specifications by the term, "As Specified".
- B. All items of custom fabrication shall be the product of the single manufacturer of such equipment so as to ensure uniformity throughout.
- C. All metal gauges shall be United States Standards.
- D. All workmanship shall be of the finest and all materials shall be new, of best quality and without flaws.
- E. All metal work stainless steel, unless specified otherwise:
 - 1. Type 302/304 18 8 analysis, chrome nickel bearing steel.
 - 2. All exposed surfaces shall be standard No. 4 finish.
 - 3. All fasteners non-magnetic stainless steel.

- F. All piecing of stainless steel, shop or field, whether on cabinet surfaces or bases, shall be continuous welded joints. All welded joints shall be smooth and polished to the original finish, cove inside corners.
- G. 1. Welds shall be without warping adjacent sheets, grind, fill, regrind and polish.
- H. 2. Flat areas shall be backside supported with stainless steel angle or channels to brace against warping or bowing with use.
- I. a. Concealed from view reinforcing may be hot dip galvanized.
- J. b. Provide as need to back up welded joints.
- K. Pipe Stands and Open Base Tables:
- L. 1. All pipe stands shall be constructed of 1 5/8 inch O.D., 14 gauge stainless steel tubing, unless noted otherwise, with all pipe joints welded, ground smooth and polished. Assembly of pipe stands by use of threaded or slip joint fittings will not be accepted. Tables over 6 feet in length shall have legs spaced not over 5 feet apart. Legs to be fitted at top with stainless steel full closed gussets, welded to the channel underbracing, or the table tops, and shall be fitted with approved, polished, stainless steel Bullet type adjustable feet, with the adaptation being internal.
- M. a. Bullet feet for moveable (semi-stationary) equipment.
- N. b. Swivel castors for moveable equipment, two (2) locking.
- O. c. Use flanged feet for equipment bolted to floor.
- P. Field Joints:
- Q. 1. All field joints in both tops and cabinet bases shall be completely welded on the job and ground smooth and polished to match original finish. Tack welding will not be accepted.
- R. 2. Employ stainless steel welding rods of approximate temperature and chemical make up for parent material being welded.
- S. 3. Welds to be continuous and free of pits or unsatisfactory roughness not in compliance with NSF standards.
- T. Service Pipe Chases:
1. Cabinet bases are to be so constructed with adequate pipe chases provided in the equipment prior to delivery to the job site. If necessary to the job site, they are to be provided by the Food Service Equipment Supplier and are to be adequately finished to the complete satisfaction of the Owner.
- U. Sinks, Drain boards and Counter tops:
- V. 1. To be constructed of 16-gauge stainless steel minimum, and are to be welded integral with sink compartments.
- W. 2. Have all vertical and horizontal corners coved.
- X. 3. Underside treated with sound deadened material and painted aluminum.

- Y. 4. Exposed edges to be as constructed for sinks and where adjacent to walls, or adjoining equipment, to be turned up eight inches (8") and back two inches (2") on a 45-degree angle.
- Z. 5. Drain boards less than three feet (3') long to be supported on pipe stands as previously specified.
- AA. 6. Unless otherwise noted the drain boards will be 1½" inches deep, pitched to drain into sink, disposer or dishwasher if supplied.
- BB. 7. Counter tops shall support a minimum of 50 lbs. per square foot and a 300 lb. concentrated load, (not concurrently applied) without noticeable deflection.
- CC. Elevated Shelving:
1. All elevated shelving shall be of length and width specified and constructed of 16-gauge stainless steel minimum, unless noted otherwise. All exposed edges shall be rolled down 1 3/4 inches. Where butting wall or other equipment, the edges shall be covered up two inches (2"). Shelving shall be spaced and mounted as specified in itemized specifications. See Drawing for special rim conditions.
- DD. Closure Plates:
1. All equipment bodies, where resting on bases, or against walls or columns shall have 20 gauge stainless steel closure plates, where any gaps may occur due to interferences or wall irregularities.
- EE. Switches and Controls:
- FF. 1. All switches and control boxes to be NEMA 4 SS stainless steel.
- GG. 2. All start stop switches to have 2" diameter mushroom head, red stop switch.
- HH. Tray Slide:
1. Tray slide to be die-formed 18-gauge stainless steel with three (3) raised slide rails, raised guide rail edges, approximately ¾" above slide rails. Joints between sections aligned with underside plate and welded and ground smooth to fit over low wall.
 - II. 2. Material may be manufactured by Duke Manufacturing Co., St. Louis, MO, shop fabricated, or other manufacturer.
 - JJ. 3. In the event a manufactured tray slide is selected it may have standard slide and side rails, not intended to require custom tray slide.

2.2 EQUIPMENT

- A. Equipment listed on the drawings is by manufacturer and model number to indicate acceptable material and equipment. It is the intention of the architect to consider products other than those listed, however the architect must have substitute equipment name, model number, and catalog cut, ten (10) days before bidding so that the equipment can be reviewed for acceptability and an addendum issued.

- B. Without exception, regardless of specification, all equipment to comply with NSF, NFPA, UL, FDA requirements and the Illinois Dept. of Public Health as interpreted by local county inspectors unless specifically exempted. upgrade specified items as needed to comply.
 - C. Base Bid Equipment (Item number corresponds to Drawings). All equipment is stainless steel with #4 finish.
 - D.
- 2.3 Equipment List (the term 'provided' means delivered, supplied assembled, installed, adjusted, and made operable.)
- A. See drawings for kitchen equipment schedule.
 - 1. Any existing equipment from the owner shall be transported and installed by the contractor from the existing jail located in Paris, Illinois.tr

PART 3 - GENERAL

3.1 INSTALLATION

- A. The Food Service Equipment Supplier shall deliver and set in place, ready for related trade contractors to make required plumbing, electrical and ventilation connections, all equipment at locations where shown on Drawings.
 - 1. Install all equipment provided in this subcontract ready for plumbing and electrical hook ups.
 - a. Special equipment, re-circulating water system, fittings on kitchen equipment and all work except power and water hook up.
 - b. Pre rinse pumps and control switches.
 - c. All equipment provided except items described herein to be given to the plumbing and electrical subcontractors.
 - 2. All internal wiring, control wiring, switches, switch boxes and switch supports shall be installed by the supplier.
 - 3. All internal plumbing and plumbing accessories shall be factory installed or field installed by this contractor.
 - 4. Provide to the on site plumbing and electrical trade contractors or subcontractors ALL necessary accessory pieces required for proper operation.
 - a. Quick open valves, tailpieces and strainers.
 - b. Flow switches.
 - c. Pressure switches.
 - d. Temperature switches.
 - e. Water cut off switches or electrical sensors necessary to proper operation.
 - f. Faucets, valves, sprayers, nozzles, strainers and mounting cones.
 - g. Vacuum breakers per Illinois State plumbing code.
 - h. Support hardware and brackets.
 - i. NEMA 4, NEMA 4X SS housing for all electrical switches and controls.
 - j. Control switches, safety switches and starters.

- k. Cords and plugs.
 - l. Quick fit heavy-duty gas line and quick fit adaptor for gas lines.
- B. All valves, traps, tail pieces, fittings, cut off switches or other materials necessary for connections shall be installed by related trade contractors, except where otherwise specified in itemized specifications. The Food Service Equipment Supplier is to furnish all necessary faucets and sink drains. Loose switches or controls furnished with brand name equipment shall be installed by the Electrical trade Contractor or Subcontractor. Valves, tailpieces, nozzle vacuum breakers, etc., shall be piped and installed by the Plumbing trade Contractor or Subcontractor.
- C. The kitchen equipment contractor shall coordinate all installations, arrange for installation of control system, final utility hook ups, and start up, including inspection of work by other subcontractors.
- D. All electrical equipment shall be correct for type of electric current available.
- E. All items of equipment specified with cord and plug shall match receptacle at job site.
- F. Kitchen equipment Contractor shall coordinate with other trade contractors to provide brackets, anchors, and hang supports for piping, conduit and switches. All such items to be stainless steel. (Hot dip galvanized allowed when concealed from view).
- G. All equipment abutting walls or other fixed equipment shall be sealed with NSF approved silicone rubber sealant.
- H. Food Service Equipment Supplier shall remove all debris accumulated during the delivery and installation of his equipment daily and immediately upon completion of said installation. He will provide a representative, when necessary, to correlate final hook up by related trade contractors, so as not to impede job progress. After final hook up, he shall lubricate, start up and check out all equipment requiring this attention, and shall clean equipment and turn over to the Owner, for his acceptance, in first class condition, all items in his contract.
- I. The Food Service Equipment Supplier shall provide a capable representative or representatives, to demonstrate the proper use of the equipment, at each location, at the time selected by the Owner. The Contractor shall notify the Owner a minimum of seven (7) calendar days notice prior to the demonstration dates.
- 1. Instructional presentation for maintenance.
 - 2. Start up demonstration.
 - 3. Operational start up after occupancy, equipment supplier and fabricator shall have on site a representative to be available for full start up day, first day of scheduled Owner use. They shall remain one day minimum or until equipment works properly.
- J. This representative shall be available for an additional job site visit following equipment start up to further instruct the kitchen personnel if needed. This visit will be per Owner request.
- K. All joints between fixed equipment and surrounds shall receive continuous silicone rubber USDA Food Service approved sealant. Joints between adjacent fixed equipment shall receive stainless welded and polished joint or factory built NSF approved connection.
- 1. Silicone sealant if moveable for service access.

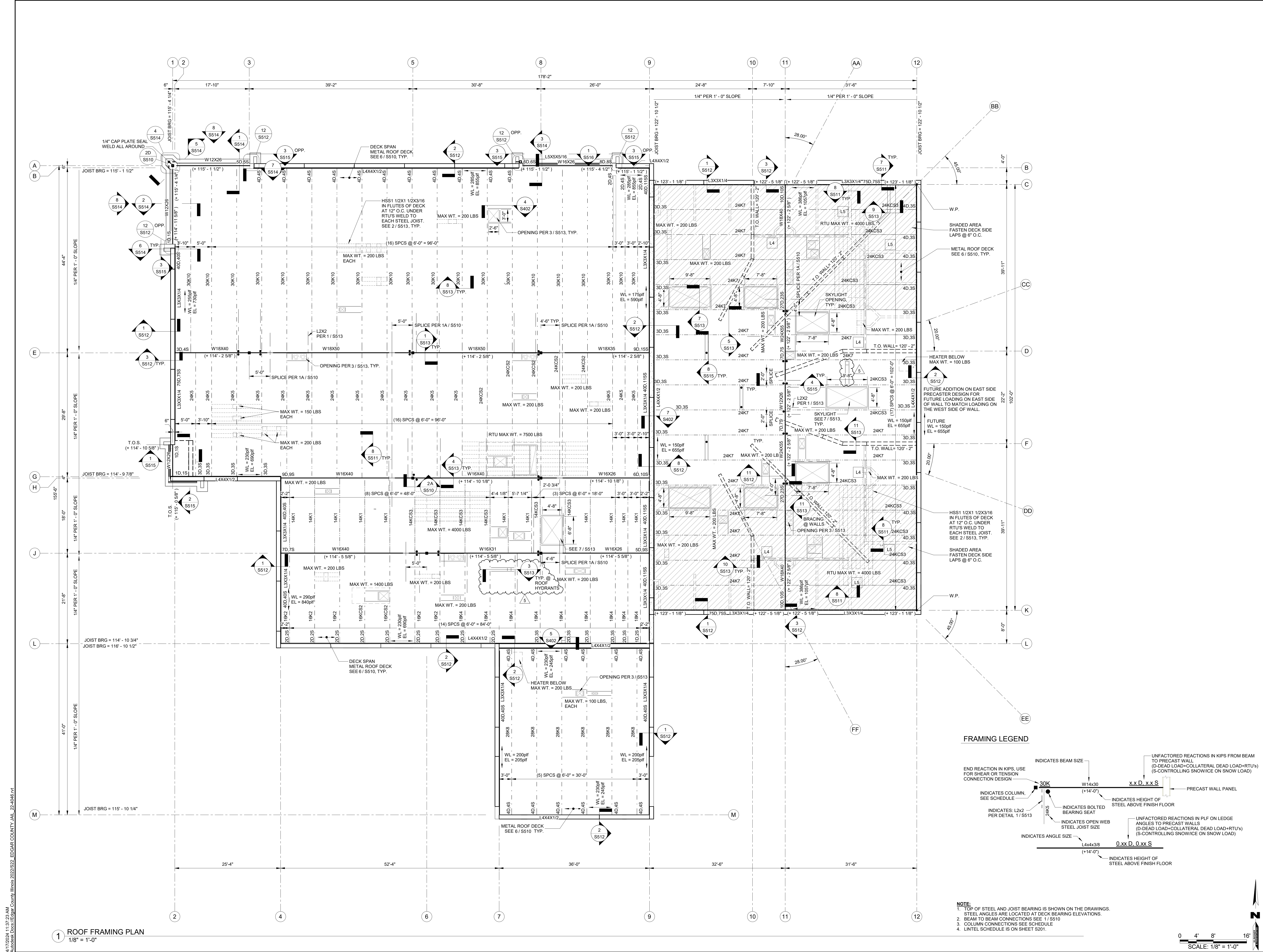
3.2 SCHEDULE FOR INSTALLATION

- A. Provide line item schedule for each kitchen appliance for onsite rough in work.
 - 1. Optimum utility locations
 - a. floor trough or drains
 - b. water connections
 - c. electrical connection or cords
 - d. ventilation connections
 - 2. Schedule work in the following sequence:
 - a. Do not schedule equipment installation until:
 - 1) Wall, floor and ceiling finishes are equipment ready
 - 2) Utilities and connection roughins are completed
 - 3) Kitchen area is substantially complete except for equipment.
 - 3. Proceed with equipment installation and Substantial Completion at the earliest convenient date for Owner take over.

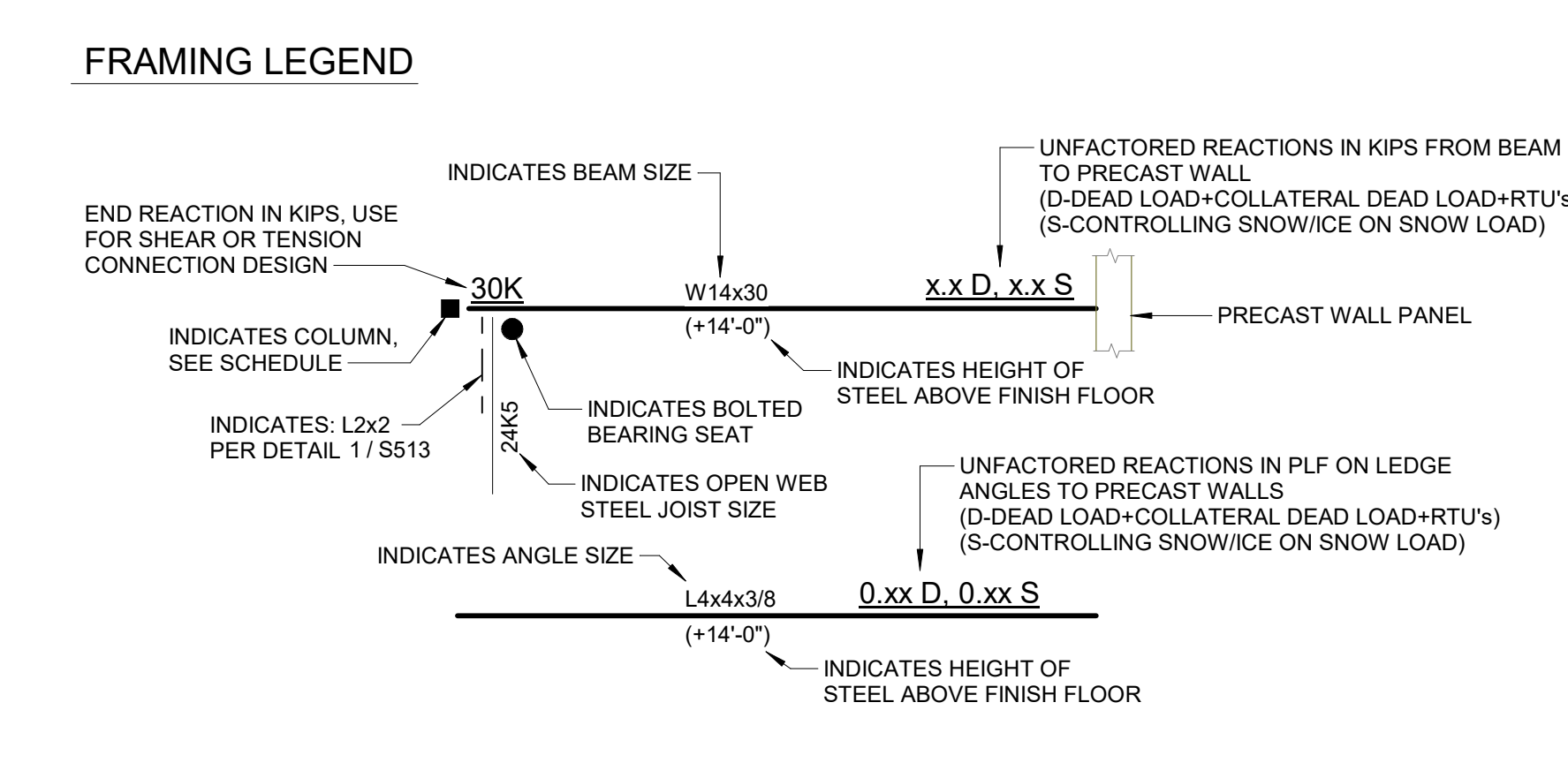
3.3 EXISTING EQUIPMENT

- A. Obtain, move, store, and re-install equipment, ready for utility connection.
- B. Do work in cooperation with Owner so that normal function of services is minimally interrupted.
- C. Clean and re-furbish ing equipment to be re-used to original condition.
- D. Where required, remove existing equipment from site for repairs or alterations; handle carefully and return in "like new" condition.
- E. Re-used Equipment: Refer to schedule on drawings for re-used equipment.

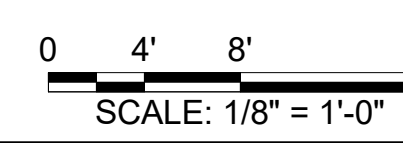
END OF SECTION 114000



1 ROOF FRAMING PLAN
1/8" = 1'-0"



- NOTE:**
1. TOP OF STEEL AND JOIST BEARING IS SHOWN ON THE DRAWINGS. STEEL ANGLES ARE LOCATED AT DECK BEARING ELEVATIONS.
 2. BEAM TO BEAM CONNECTIONS SEE 1 / S510
 3. COLUMN CONNECTIONS SEE SCHEDULE
 4. LINTEL SCHEDULE IS ON SHEET S201.



REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR
1	ADDITIONAL	04/17/2024	JTS

ISSUED FOR: **03/01/2024**

BID & PERMIT

EDGAR COUNTY PUBLIC SAFETY CENTER
EDGAR COUNTY, ILLINOIS
12636 950TH ROAD
PARIS, ILLINOIS 61944

Non-Reduced Sheet Size 30" x 42"
Full sized plans have been prepared using standard scales.
Reduced sized plans may not conform to standard scales.

DESIGNED	JTS	DRAWN	NML
FIELD		FIELD BOOK	
CHECKED	ADL	CHECK DATE	03/01/2024
SHEET TITLE			
ROOF FRAMING PLAN			
PROJECT NO. 22-4048			
DRAWING ISSUED DATE: 03/01/2024			
S203			