

NOTICE TO BIDDERS

Notice is hereby given that sealed bids for the **2023 Brownsburg HS Field House Renovations & Additions** will be received at the offices of the Brownsburg Community School Corporation, **Entry 7**, 310 Stadium Drive, Brownsburg, Indiana 46112.

Bids will be received until **10:00 a.m. local time, Thursday, May 25, 2023**. Bids received after that time will be returned unopened. Bids will be publicly opened and read aloud.

All work for the complete construction of the project shall be performed under the form of contract set forth in the Bidding Documents. Two copies of bid forms shall be submitted on forms provided in the project manual and shall be executed in accordance with the current edition of the Indiana Board of Accounts Form 96 – “Contractor’s Bid for Public Works”, with a financial statement complying with Section III of Form 96, and a satisfactory Bid Bond or certified check pursuant to I.C. 36-1-12-4.5, payable to the Brownsburg Community School Corporation. Bid Security shall be in the amount of not less than 5% of the total base bid price. Should a successful Bidder withdraw their Bid, fail to provide the required payment and performance bonds, or execute the contract, the Owner may then declare the Bid Security forfeited as liquidated damages.

Bids shall be delivered in a sealed envelope plainly labeled to indicate the following:

Addressed to:
The Brownsburg Community School Corporation
310 Stadium Drive
Brownsburg, Indiana 46112

Attn: Bid for 2023 Brownsburg HS Field House Renovations & Additions
Bid Package # _____
The name and return address of the Bidder

All bid proposals shall be in full compliance with the bid documents which are on file with the Owner and are available for examination at the following locations:

1. Builders Exchange - Indiana
1028 Shelby St
Indianapolis, IN 46203
317-423-7080
Available online at: bxindiana.com
2. Construction Data LeadManager+
Available online at cdcnews.com
800-652-0008
3. Construction Market Data
Available online at cmdgroup.com
800-424-3996
4. Dodge Data & Analytics
Available online at dodgeprojects.construction.com
877-989-5753
5. ISQFT
Available online at isqft.com
800-364-2059

Copies of the Bidding Documents may be obtained from the Eastern Engineering plan room at <http://distribution.easternengineering.com> per the options and prices listed on the Order page. All charges for bidding documents are non-refundable. Bid Invitations inclusive of the Bid Documents will be sent out via Meyer Najem Construction, LLC's SmartBid – Document Management Software.

A Pre-Bid Meeting is scheduled for Wednesday, May 10, 2023, at 2:30pm local time, Brownsburg Community School Corporation, 310 Stadium Drive, Brownsburg, Indiana 46112, **Entry #7**. At the completion of the Pre-Bid Meeting, a tour of the existing facilities will take place. Attendance at the Pre-Bid Meeting may be required for a Bid to be considered responsive.

Questions, or requests for equal status, shall be directed in writing (via email) to:

Attention: Skip Keltner
Meyer Najem Construction, LLC
317-577-0007 Ext. 152
skeltner@meyer-najem.com

Board of School Trustees
Brownsburg Community School Corporation

SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY

**2023 Brownsburg HS Field House Renovations & Additions
1000 South Odell Street
Brownsburg, IN 46112**

PREVIOUS BID PACKAGES

Bid Package #01 – Precast (previously released and awarded)

Bid Package #02 – Structural Steel (previously released and awarded)

Bid Package #03 – Not Used

Bid Package #04 – Not Used

Bid Package #04 – Not Used

Bid Package #05 – Not Used

Bid Package #06 – Not Used

Bid Package #07 – Not Used

CURRENT BID PACKAGES

Bid Package #08 – Not Used

Bid Package #09 – Not Used

Bid Package #10 - General Trades

Bid Package #11 – Masonry

Bid Package #12 – Roofing

Bid Package #13 - Metal Framing, Drywall & Acoustics

Bid Package #14 – Flooring

Bid Package #15 – Mechanical

Bid Package #16 – Electrical

A. General Scope Items: (Applies to ALL Bidders and Bid Packages)

1. All work necessary for the completion of the project, as documented both in Drawings, Specifications, Scope of Work, and Contract Manual. Review/Incorporate all drawings, general notes, and plan notes, which refer to each contractor's scope of work.
2. Reference and include additions/changes/deletions per updated/addenda documents issued from Meyer Najem Construction (MNC) & Architect/Engineers.
3. All items listed below are to assist in coordination for contractor's scope. It will be the contractor's responsibility to coordinate their scope of work with the contract documents.
4. In addition to the Contract Drawings, Contractor shall review and include, but not be limited to the following items: Specification Sections: Contract Manual (Complete), Division 00 (Complete) and Division 01 (Complete). The requirements of the Instructions to Bidders, General Conditions, Bidding and Contract Forms are a part of the work of every Bid Package.
5. Throughout items listed below, specific detail references are identified for informational purposes. The detail references do not limit the scope of work and serve only to describe the scope of work for inclusion of all similar details within the bid for each Bid Package/Scope.
6. Any notes on the drawings or specifications that describe responsibility for work shall not be utilized, exclusively, for determining scope of work requirements (e.g., "by general contractor" or "by electrical contractor"). These notes shall not be used to limit or exclude any scope of work. Responsibility for work shall be as indicated in this scope of work. In the event the responsibility is undefined in the Bid Package Scope of Work, the drawings and specifications shall be followed.
7. For all items listed below and terms "include" and "provide" means "furnish and install" unless noted otherwise.
8. Provide all trade specific permits, fees, inspection costs associated with this scope of work (as applicable). Primary building permit will be submitted and paid for by the Owner.
9. Include approved licensing required to work in the project location, both local and state.
10. All Contractors and Sub-contractors for IDOA Public Works projects valued at over \$300,000 MUST be pre-qualified through the Public Works Certification Board, prior to Board Approval of Contract or will be grounds for bid to be rejected as non-responsive. Pre-qualification requires submission of an application for review by the Public Works Certification Board members. The Prime Bidder is REQUIRED to submit a copy of their current IDOA Certification with the Bid.
11. This project does NOT require prevailing, Davis-bacon nor union wages.
12. This Project **is Tax Exempt**.
13. Review and include as they may apply to this bid package the Sections 01 21 00 (Allowances) and 01 23 00 (Alternates) of the contract documents.
14. When working on, near or adjacent to finished or existing surfaces to remain, protect those surfaces from damage. Damages caused will be repaired at the cost of the trade contractor causing the damage and not the Owner or MNC.
15. Contractor is responsible for means and methods of performing their work. Each trade is responsible for providing all construction accessories, equipment, tools, access/aerial aids, etc. to perform their work. Contractor is responsible for reviewing and understanding existing conditions and construction phasing.
16. Any contractor who desires to put a trailer or store material on site must do so with the approval of MNC, and at location as directed by MNC. (Cost of installing, disconnecting and usage of any electricity shall be borne by trade contractor requiring such services)
17. This project is being constructed near residential areas and Owners operational facilities. Contractor shall take all precautions to not impact or disrupt the operations of this and the adjacent residents. All work must accommodate the required access and egress to the existing buildings and neighborhoods. All pedestrian and vehicles egress and access that are adjacent to the work of this project shall be continuously maintained throughout the duration of this work. Each contractor is responsible for providing their own traffic control measures as necessary/required.

18. Contractor shall reference Specification Section 01 14 00 – Work Restrictions & Hours for requirements associated with deliveries. One item for coordination around pick-up and drop-off zones is the following: Contractor shall attempt to limit all deliveries and/or traffic to and from the construction areas to times that will not impact the operations of the School (i.e., pick-up & drop-off, bus and student traffic, football games, etc.). When interference with the Owner’s operations cannot be avoided, the Contractor shall be responsible to provide a spotter, flagger, etc. to control traffic.
19. Contractor shall perform all work in strict accordance with Project Requirements and all OSHA Rules and Regulations, and Silica Standard for Construction 1926.1153.
20. Contractor shall provide handrails, flagging, signage, spotters, etc. and they shall be in place for the duration of the fall hazard created by this Bid Package. Contractor is responsible for all temporary fall protection measures and signage to comply with OSHA requirements.
21. Contractor is responsible to purchase their own set of construction documents (as needed) for the construction of the project once awarded.
22. Provide daily and routine cleaning as outlined in Specification Sections 01 50 00 and 01 74 19.
23. Contractor shall clean their work area daily. Failure to perform this task and debris that is left by the contractor or the contractor’s subcontractor, the said contractor that created the debris will be responsible for the hourly rate cost for MNC to remove the debris.
24. All project personnel are required to check in with MNC’s Site Superintendent upon mobilizing to site to obtain a School ID, sign in and watch a Safety Video.
25. All contractors and contractor’s subcontractors, etc. will be required to check-in with MNC’s Site Superintendent prior to work activities each individual day.
26. This School is a tobacco, vaping, alcohol, and drug free institution / workplace and is strictly prohibited. All workers while on the property shall adhere to this rule. Any violators will be removed from the premise.
27. Escalation costs shall be managed as written in AIA Document A132 - Standard form of Agreement between the Owner and Contractor based on Article 4., Paragraph 4.2.1.
28. Every trade while on site is responsible and required to monitor and maintain the cleanliness of treads and tires on equipment and vehicles being used for material delivery, handling and/or installation, prior to moving across roadways. Should any debris, dirt etc. be tracked out of the work site, and it is determined by MNC that you are the responsible party, you will be required to provide proper removal and cleanup.
29. Contractor shall include all required labor for pre-checkout, start-up, and commissioning of equipment.
30. Supports, Unistrut, wood blocking and other items that are not explicitly shown in the drawings shall be included by the contractor requiring the support, etc. Wood blocking and backing indicated on the drawings, or required at walls and ceilings, etc. to provide a complete and functioning installation of the equipment shall be provided by this Bid Package.
31. It is the responsibility of each contractor to provide clean materials and equipment at the time of project turnover.
32. Contractors will be subject to the following media and promotional guidelines as it applies to the project. Company Logos will not be allowed on materials, trailers, fencing, storage facilities, etc. unless approved in writing by the Owner and MNC. Furthermore, contractor or contractor’s subcontractors are not permitted to advertise or feature the project by website, television, newspaper, magazine, social media or any other promotional or media output unless specifically approved in writing by the Customer and MNC.
33. Contractors performing excavations are responsible for calling/requesting utility (public and/or private) locates. MNC will not request utility locates. The contractor performing the excavation must request the utility locates.
34. Materials, debris, excess soils, excavated soils etc. hauled off site shall be hauled in accordance with regulations and disposed of legally. Each contractor is responsible for removal of their own spoils from the project site.

35. All pumping necessary to keep excavations and trenches free from water during the entire progress of this work shall be the responsibility of the contractor who is responsible for said excavations and trenches. This excludes groundwater remediation. Water shall be discharged per the approved SWPPP. Clean up of sediment around storm water control measures is the responsibility of the contractor causing the need for said clean up.
36. The Owner, Town of Brownsburg, local Fire Department, and all additional Authorities Having Jurisdiction have the right to perform a walkthrough and request corrective action at any time during construction. A Certificate of Occupancy will be required at the end of the project.
37. Contractor shall reference Specification Section 00 89 13 Construction Schedule – Preliminary Outline that will be issued via addendum and shall review in detail the CM drawings, for site coordination, general notes, and life safety throughout distinct phases (time frames) of the project.
38. This project will utilize Lean Construction Principles and will require attendance to pull planning sessions/scheduling, weekly work plan meetings and daily huddles for all field supervision to develop and facilitate an agreed upon detailed schedule. Contractor shall include required mobilizations and provide adequate manpower / crews and overtime to complete the scope of work as indicated and maintain this schedule. Refer to Specification Section 01 32 00 for additional requirements.
39. In connection with above line item, contractor is responsible for reviewing, understanding, and acknowledging the Preliminary Construction Schedule Outline in Specification Section 00 89 13, including any issued CM Drawings, regarding sequencing and shall include all mobilizations as required. As **noted**, certain trades / activities may be required to have **multiple crews, overtime and / or shift work**. Contractor **shall provide** adequate manpower / crews and overtime in his bid price to maintain this schedule. Premium costs for Phasing, Utility / System Tie-Ins, Overtime, Weekend and Second Shift work shall be included as dictated in the Preliminary Construction Milestone Schedule. **NO** additional monies will be provided for failure to do so. Educate all field personnel of Phasing and Bid Package requirements indicated.
40. Contractors whose scope of work requires access and or work to the roofing system are responsible for maintaining and protecting the roof.
41. All contractors shall note any instance where additional detailing or information is necessary prior to proceeding with any work. These conditions should be communicated by the bidder prior to contract finalization.
42. Include all materials and labor for mockup conditions per drawings and specifications, if required.
43. Provide all materials for attic stock under this scope of work per specifications requirements.
44. Contractor is responsible and shall include labor and equipment necessary to receive, unload, handle, and stage all materials provided by their scope of work.
45. Operation of any construction equipment (those vehicles that are not legal to operate on streets) outside of construction fence/limits shall be minimized and accompanied by a person walking next to the equipment flagging to ensure that the equipment does not affect adjacent public pedestrian and vehicle traffic.
46. Contractor is responsible for all submittals, shop drawings, samples “colors,” closeout documentations required by the project. These documents shall be submitted in digital format to MNC in accordance with the project activities to not delay material acquisition etc. As a general requirement, all submittals are to be received by the Construction Manager within three (3) weeks following formal contract award, unless agreed upon differently. Contractor will be required to submit to the Construction Manager a list of material and equipment that will have a lead time of greater than three (3) weeks and will take longer than the required three (3) weeks to compile submittals for. This list will be due to the Construction Manager within seven (7) days following formal award.
47. Contractor shall be responsible for providing, installing, and maintaining of their own certified scaffolding systems, ladders, lifts, equipment, per OSHA guidelines and requirements, as required to complete the scope.
48. Provide all testing and quality control measures per the applicable specifications. Third party testing will be provided and paid for by the Owner.

49. Owner shall have the right of first refusal on all items being removed from the building or site. The contractor shall coordinate removal of all salvageable items with the Owner. At Owner's request or items shown on the demolition plan to be salvaged, shall either be turned over to the Owner or stored in a location designated by the Owner or their representative. Items of salvageable value to the Contractor may be removed with the Owner or their representative's permission. The Contractor shall not store these items on site. Failure to coordinate with the Owner and/or their representative in writing prior to proceeding with demolition or removal of materials and equipment may result in a deductive change order in the amount of the replacement value of the noted items.
50. Contractor is responsible for providing field engineering and surveying for their own scope of work, including all horizontal and vertical control, as required. Provide all layout for this scope of work.

END OF - A. GENERAL SCOPE ITEMS (APPLIES TO ALL BIDDERS AND BID PACKAGES)

BID PACKAGE #10 – GENERAL TRADES

Scope Specific Inclusions:

All work per Specification Sections

00 & 01	Complete	09 91 23	Interior Painting
02 41 19	Selective Structure Demolition	09 96 00	High-Performance Coatings
03 30 00	Cast-in-Place Concrete	10 11 00	Visual Display Units
05 50 00	Metal Fabrications	10 12 00	Display Cases
05 52 13	Steel Pipe and Tube Railings	10 14 16	Plaques
05 52 13	Stainless Steel Handrails	10 14 19	Dimensional Letter Signage
05 73 00	Decorative Metal Railings	10 21 13	Toilet Compartments
06 10 00	Rough Carpentry	10 26 00	Wall and Door Protection
06 10 53	Wood Blocking	10 28 00	Toilet, Bath, and Laundry Accessories
06 16 00	Sheathing	10 43 13	Defibrillator Cabinets
06 40 00	Interior Architectural Woodwork	10 44 13	Fire Extinguishers and Cabinets
07 13 26	Self-Adhering Sheet Waterproofing	10 51 13	Metal Athletic Lockers
07 84 13	Penetration Firestopping	10 51 16	Wood Lockers
07 84 46	Fire-Resistive Joint Sealants	10 73 16	Canopies
07 92 00	Joint Sealants	11 52 13	Projection Screens
07 95 00	Expansion Control	11 66 23	Gymnasium Equipment
08 11 00	Hollow Metal Doors and Frames	11 66 53	Gymnasium Dividers
08 14 00	Flush Wood Doors	12 32 16	Manufactured Plastic-Laminate-Faced Casework
08 31 00	Access Doors and Frames	12 35 57	Plastic-Laminate-Glad Laboratory Casework
08 33 13	Coiling Counter Doors	12 36 16	Metal Countertop
08 33 23	Overhead Coiling Doors	12 36 63	Solid Surface Countertops
08 41 13	Aluminum-Framed Entrances & Storefronts	12 63 13	Stadium and Arena Bench Seating
08 44 13	Glazed Aluminum Curtain Walls	14 24 00	Hydraulic Elevators
08 45 23	Fiberglass Sandwich Panel Assemblies	31 62 50	Aggregate Piers
08 71 00	Door Hardware	32 92 00	Turf and Grasses
08 80 00	Glazing	32 93 00	Plants
08 83 00	Mirrors		

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

General

1. All work/responsibilities as listed in the General Scope Items (items 1-50 above) “Applies to All Bidders”.
2. Contractor shall include the work required under each contract area as set forth in this bid package.
3. This Contractor shall be responsible for including an onsite General Superintendent for supervision and coordination, at all instances where either self-perform or subcontract work that is under this bid package’s scope of work is present on site. This includes receiving and unloading materials.
4. All field engineering and surveying required for this bid package is to be provided by this contractor.
5. Refer to Existing Topography Drawings and Grading Plan Drawings for existing and proposed grades.
6. This bid package is to include an as-built survey by a registered land surveyor confirming all horizontal and vertical control was installed per Contract Documents. This is to include but not limited to: Building Concrete and Structural Steel.
7. Contractor is responsible for visiting the site and confirming existing conditions as shown on the Construction Documents prior to bid. Notify the Construction Manager of any discrepancies and send an RFI prior to bidding.

8. Protect existing site materials to remain. Where damages occur by this bid package, patch and repair/restore to its original condition or replace. It is this bid package's responsibility to verify components that remain and protect as required.
9. This bid package must use Tier 4 Equipment or similar inside the building. When using gas/diesel equipment inside the building this bid package must provide daily monitoring of Carbon Monoxide Levels to ensure they do not exceed OSHA Regulations. Provide evidence of testing/monitoring reports to Construction Manager. Provide all necessary ventilation of noxious gases and fumes when running gas/diesel equipment.
10. It is the responsibility of this bid package to disconnect or coordinate disconnection for utilities prior to any demolition activities. Notify BCSC and the Construction Manager prior to any utility shut down.
11. Protect existing utilities and structures during building demo and building concrete activities. Provide adequate access as required for equipment to alleviate damage of existing site and building conditions.
12. Provide all dewatering for work within this bid package as to not delay the construction schedule. Route water responsibly.
13. Reference specification section 01 50 00 Temp Facilities for this trade's responsibility.
14. Contractor shall verify elevations of all existing building conditions to ensure new concrete work aligns appropriately. Any discrepancies shall be brought to Meyer Najem's attention immediately.
15. All patching/ repair work needed as a result of connecting to existing conditions shall be inclusive of this bid package to the extent this scope of work applies.
16. Review and abide by all recommendations in the Geotechnical Report provided by Alt & Witzig Engineering, Inc.

Temporary Work

1. Provide the following. Reference the CM drawings and phasing.
 - a. Provide temporary protection of all openings at all exterior wall openings for new doors, windows, or access points for entry for MEP Equipment.
 - b. Contractor shall include the work required under each contract area as set forth in this Bid Package.
 - c. Provide leading edge protection of all existing conditions being re-worked (perimeter safety rails at roof, second floor, floor openings, controlled access zones, etc.).
 - d. Provide temporary stairs, guardrails, walkways to accommodate ALL construction activities (activities for all Bid Packages).
 - e. Provide, maintain, and locate fire extinguishers per OSHA.
 - f. This bid package shall be responsible for reviewing, providing, installing, maintaining, and removing ALL temporary walls, openings, enclosures, dust partitions, etc. as noted on the CM Drawings. Pay special attention to the items provided and installed by others that will be this bid packages responsibility to remove and clean up at a later date. These items are due to early packages being released prior this bid package's scope of work beginning.

Selective Building Demolition

1. Provide all selective building demolition per the Architectural Demolition drawings and specs.
 - a. Provide structure/building demolition as shown. Provide complete structure demolition, including footings and foundations.
 - b. All shoring as required for the installation or removal of this trade or other trades is the General Trades responsibility.
 - c. Provide all interior demolition as required to accept new work including, but not limited to, walls/partitions, soffits, bulkheads, ceilings, doors & frames, flooring, flooring adhesives, wall base, casework, windows, wall base etc.
 - d. Demolition by others:
 - i. Site Demolition - Bid Package 10 – Site Work
 - ii. Roofing and gutters – Bid Package 12 Roofing
 - e. The MEP trades will make safe, cut, cap, and dispose of all MEP demolition items.
 - f. The MEP trades are cutting and patching concrete as needed for their MEP work.
2. Includes all notifications, wrecking/demo permits as required.
3. Coordinate with Meyer Najem and Brownsburg Schools for existing utility service disconnects as required.
4. All demolition items/debris to be removed from site unless noted otherwise. Dispose of legally.

5. Coordinate demolition sequence with the Meyer Najem superintendent and other trades as required. (Reference CM drawings for phasing)
6. Means and methods to protect existing conditions to remain from demolition activities as necessary.
7. Provide and manage dumpsters for all demolition debris.
8. Provide means and methods to remove all demolition debris out of building. Include floor protection, continual dust removal and mopping, dust abatement, etc.
9. Remove all miscellaneous equipment attached to walls, floors, and ceilings to be demolished. Coordinate with the Owner for items to be salvaged or re-installed.

Concrete

1. Contract a registered surveyor to provide all required layout for this Bid Package.
2. This Bid Package includes all foundations, walls, piers, slabs on grade, slab-on-decks, supported slabs, metal pan stair fill, etc.
 - a. This includes the Aggregate Pier System as denoted on drawing S002 and denoted by Foundation Plan Note #15.
 - b. This Contractor shall include provisions to minimize over-excavation at the tops of the Aggregate Piers. Include provisions to re-compact the tops of the piers prior to the installation of footings.
3. Furnish and install all vapor barriers per plans and specifications.
4. Provide excavation and backfill required for foundations, thickened slabs, curbs on interior slabs. etc. Haul any excess spoils off site and legally dispose of it.
5. Provide, place, and compact fill material on both sides of foundation excavations to the required elevation for the applicable trades.
6. Provide slab control joint saw cutting as indicated on the drawings. Provide layout drawings for approval a minimum of 5 business days prior to any pour.
 - a. Saw Cutting shall occur within 24 hours of ALL concrete pours. Costs associated with weekend or afterhours saw-cutting due to this requirement shall be base bid.
7. It is this trade's responsibility to determine if footings need to be formed. No cost adjustments will be provided for forming of footings for any reason.
8. Furnish and install all required vertical and horizontal rigid insulation at the foundation and under-slab details as required per the construction documents and energy code requirements.
9. All exterior stoops tied to the building should be included in this Bid Package.
10. The starting of foundations indicates this package accepts proposed sub grade elevations installed under BP#09 – Site work.
11. Saw cut and remove existing slabs/foundations as required in locations required for new foundations. Patch slab as required for this trades scope.
12. Overcuts associated with concrete demo are not accepted at areas where exposed concrete slabs are the finish floor condition.
13. Provide and install any foundation underdrains as required by the contract documents.
14. Include all reinforcing steel that is embedded in concrete.
15. The drilling and epoxying of reinforcing into existing floors slabs for masonry walls will be by Bid Package #11 - Masonry
16. Furnish and install underpinning where required / indicated at existing foundation locations.
17. **E5 Internal Cure** will be part of **ALL** slab mix designs. Reference Specification 03 30 00 - Concrete.
18. Installation of embeds and sleeves provided by others.

19. Place and secure anchor rods/bolts, anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. (Embedded steel plates and anchor rods/bolts materials provided by previously bid, Bid Package #02- Structural Steel). Set anchor rod/bolt nuts at steel bearing elevation. Clean anchor rods and ensure threads accept anchor rod nuts. Furnish and install grout at base plates.
 - a. This bid package shall be responsible for documenting the handover of materials from BP#02 – Structural Steel. Failure to have sign off procedures in place and implemented relieves BP#08 – Structural Steel, from being liable for replacement costs. Once BP#10– General Trades has signed off on materials, any replacement costs shall be this Bid Packages for lost items.
 - b. This bid package shall hire a licensed surveyor to provide an as-built of each anchor bolt (By Phase) to confirm satisfactory installation tolerances per OSHA Subpart R. This shall be shared immediately with the BP#2 – Structural Steel Contractor as well as Meyer Najem.
20. Placement of drainage fill and compacted aggregates on prepared subgrade indicates this bid package accepts proposed subgrade elevations installed by Bid Package #09 - Sitework. Extras for additional under slab fill will not be considered.
21. Provide concrete pumping for foundations, slabs, and slabs on metal decks. Access is NOT guaranteed for truck pours at ANY locations. No money to be exchanged for pump requirements.
22. Furnish necessary concrete admixtures when providing and placing concrete in hot/cold weather.
23. This bid package shall be responsible for any floor protection to ensure exposed concrete slabs are not damaged that will ultimately be “Sealed Concrete” per the finish plans.
24. At existing and new concrete slabs that are to receive Sealed Concrete, this bid package shall prepare surfaces adequately per manufacturer recommendations prior to application. Where floor protection must be utilized to protect the integrity and aesthetic of sealed concrete finished floors, this contractor shall protect the floors for the duration of construction as base bid.
25. Grouting of base plates and the installation of all anchor bolts and base plates should be included in this scope.

Rough Carpentry

1. This bid package shall provide all blocking at windows (interior/exterior), curtain wall, storefront, bookcases, door frames, in wall for Division 10, etc. as required for materials/systems within this bid package.
2. Provide new wood blocking as shown and required for copings, roof edge, rakes, etc.

Pipe and Tube Railings

1. Furnish and install per the drawings and the specifications listed in this Bid Package. Include any accessories required for complete installation. Coordinate with other trades as necessary.
2. Provide the handrail, complete, associated with stair FH-2. Includes all cabling, field welding, modifications to stringers, patching and painting as necessary.
3. This contractor shall be responsible for providing any miscellaneous steel supports required for Scope Items within this package (e.g., casework, countertops, overhead and counter doors, louvers, specialty items, etc.).

Self-Adhered Sheet Waterproofing

1. Provide per the documents. Coordinate activities with other trades as required.

Firestopping

1. Provide firestopping in new and existing walls per the drawings and specifications. Reference the Life Safety Plan, Floor Plans, Wall Partition Types, and Wall Sections/Detail sheets for details.
 - a. This Bid Package shall include Firestopping for ALL Bid Packages (BP#08 – #16).
 - b. Furnish and install all the required identification as described in 07 84 13 - Fire Stopping.

Caulking

1. Provide all caulking per the drawings and specs for all Bid Package (BP#08- #16)
2. Including but not necessarily limited to, exterior flatwork, concrete to building, expansion joints in concrete, bollard base perimeters, interior and exterior masonry control joints, slab on grade isolation joints, interior and exterior perimeters of exterior aluminum entrances and storefront, plumbing fixtures, to walls and floors, fixed casework and countertops to wall surface.
3. Provide and install all required fire-resistive joint systems complete per specification section 07 84 46.
 - a. The fire-resistive joint systems are to include, but not limited to, joints in or between fire-resistance-rated constructions, joints at exterior curtainwall/floor intersections, joints in smoke barriers, joints between perimeter edge of fire-resistance-rated floor assemblies and back of non-fire-resistance-rated, exterior, glazed aluminum curtain walls.

Doors, Frames, and Hardware

1. Provide and install all doors, frames, and hardware for the project.
2. Finish Hardware for aluminum entrances.
3. Review Section 01 73 30 Electronic Door Hardware Coordination and provide what is required.
4. Provide door vision kits
5. Provide fire and smoke ratings of doors, frames, and hardware per the Fire/Smoke Ratings denoted by the Wall types, the Floor Plans, and the Life Safety Plans. The most stringent shall govern.
6. Provide unloading, staging, and installation of the delivered doors and hardware provided by this scope of work.
7. Delivery of materials provided by this scope to the job site shall be in accordance with the Construction Schedule and phasing requirements (reference CM Drawings) as determined by the Site Superintendent or Project Manager. Materials delivered shall be palletized or grouped in logical order for the installation/sorting sequence and all items are to be clearly labeled by opening number.
8. Provide all keys, cylinders, and cores for project. Provide keying requirements as listed in specifications. This includes temporary construction keying/cores for the project.
9. Supplier shall meet in person with owner/architect and contractor to finalize keying requirements prior to the locks and exit devices being ordered and match existing or start a new Restricted and Patented Master Key System for the project. During keying meeting, all hardware functions should be reviewed with the owner/architect/contractor to finalize lock and exit device functions.
10. This contractor shall be responsible for furnishing and installing access doors as listed in section 08 31 00 and shown on contract documents. Any Access Panels not indicated on the documents that are required for MEP access created by either BP#15 - Mechanical or BP#16 – Electrical are by that trade package.

Counter Doors/ Coiling Doors

1. Provide all rolling service and counter doors, insulated and non-insulated per the drawings and specifications. Provide any hoisting/lifts required for installation.
2. Provide door and operating equipment with necessary hardware, anchors, inserts, hangers and supports. Follow manufacturer's installation instructions.
3. Provide low voltage wiring up to the line voltage junction box. Line voltage connection will be provided by the Electrical Contractor.
4. Provide operation training and demonstration for the Owner.

Glass & Glazing

1. Provide the exterior storefront and curtain wall systems complete. Includes all framing, flashings, pans, sills, glazing, fasteners, spandrel insulation, metal panels contained within aluminum framing, accessories, etc. for a complete glazed system. Reference wall sections and details for additional information.
2. Flashings (jambs, sills of openings provided by this trade), sealing, etc. of all aluminum frame systems- Coordinate with all exterior façade trades for integrated connections between different products.
3. Provide all interior storefront glazing systems. Include all framing, glazing, fasteners etc. for a complete system.

4. Include all hardware as for materials provided by this scope of work including but not limited to hinges, pulls, guides/slides, stops, locks (include all keying and cylinders as specified), grommets, trays, shelves, adjustable shelf supports, hanger rods, hooks (if located on or within casework), clips, bumpers, countertop supports/brackets, standoffs, etc. for a complete installation of materials provided by this scope. , metal panels contained within aluminum framing, accessories, etc. for a complete glazed system. Reference wall sections and details for additional information.
5. Glazing within wood, hollow metal doors and frames.
6. Auto operators as indicated associated with aluminum/glass openings.
7. Exterior storefront and curtain wall systems complete. Includes all framing, flashings, pans, sills, glazing, fasteners, spandrel insulation, metal panels contained within aluminum framing, accessories, etc. for a complete glazed system. Reference wall sections and details for additional information.
8. Flashings (jamb, sills of openings provided by this trade), sealing, etc. of all aluminum frame systems- Coordinate with all exterior façade trades for integrated connections between different products. This Bid Package. Provide field measurements where required. All items listed above in this Bid Package should be included.

Painting

1. Provide all painting for the entire project per the drawings and specifications.
2. Provide prime and finish coats per contract documents.
3. This scope of work shall include a final touch up coat as needed prior to project completion.
4. Provide exterior and interior painting of all unfinished materials.
5. Provide sealing of Concrete where indicated by contract documents.
6. Stain or paint all unfinished wood doors.
7. Do not paint over required labels.
8. Stain or paint all unfinished finish carpentry. Patch all fastener marks/holes prior to painting.
9. After prime coat has been applied, this scope of work and drywall trade shall review drywall surfaces to determine acceptance. Any inconsistencies shall be addressed prior to final paint.

Specialties

1. Provide and install the following per the documents. Provide complete with all accessories for a complete installation. In-wall blocking by this Bid Package. Provide field measurements where required.
 - a. Visual Display Boards
 - b. Display Cases
 - c. Plaques
 - d. Dimensional Letter Signage
 - e. Toilet Compartments
 - f. Wall and Door Protection
 - g. Toilet, Bath, and Laundry Accessories
 - h. Defibrillator Cabinets
 - i. Fire Extinguishers and Cabinets
 - j. Metal Athletic Lockers
 - k. Wood Lockers
 - l. Canopies

Equipment

1. Provide the following equipment per the documents. Provide all accessories for a complete installation.
 - a. Projection Screens
 - i. Provide support.
 - b. Gymnasium Equipment
 - c. Gymnasium Dividers

Furnishings

1. Provide all Manufactured Plastic-Laminate Faced Casework and Plastic Laminate-Glad Laboratory Casework the entire project per the drawings and specifications.
2. Clean all work of dirt, dust, grease, oil, shop identification marks and other foreign matter for all materials provided by this scope.
3. All fasteners, adhesives, sealants, fillers for materials provided by this scope of work.8
4. All out of wall blocking as required for installation of materials provided by this scope of work.es, posts, etc.).
5. Field measuring prior to fabrication.
6. All materials installed by this scope of work are to be installed level and plumb.
7. The scope is responsible for all tack boards that are within or adjacent to casework installations.
8. Provide templates for all work in which coordination between other trades is necessary to incorporate MEP systems, accessories, equipment etc. into the materials provided by this scope of work. Including but not limited to headwalls, nurse stations, information desks, reception desks and other similar casework fabrications.
9. All cut outs for sinks and faucets where required. Coordinate sizes with plumbing specifications/trade.
10. Include all hardware as for materials provided by this scope of work including but not limited to hinges, pulls, guides/slides, stops, locks (include all keying and cylinders as specified), grommets, trays, shelves, adjustable shelf supports, hanger rods, hooks (if located on or within casework), clips, bumpers, countertop supports/brackets, standoffs, etc. for a complete installation of materials provided by this scope.
11. All Metal and Solid Surface Countertops are included in this Bid Package. This includes all supports.
12. Provide the stadium and arena seating per the documents. Provide all accessories for complete installation including field measurements as required.

Elevators

1. Provide Hydraulic Elevators per the drawings and specifications. Provide any hoisting/lifts required for installation.
2. Provide and install all required safety netting and or fall protection devices required for installation of Elevator.

Aggregate Piers

1. Provide all material, labor, equipment, and mobilizations necessary to supply and install the Aggregate Piers scope of work, as per the documents and the below items, required for this project.

Turf/ Grasses/Plants

1. Provide all material, labor, equipment, and mobilizations necessary to supply and install the turfs and grass and planting scope of work, as per the documents and the below items, required for this project.

Work Excluded:

1. Testing.
2. Concrete housekeeping/equipment pads for Bid Package #15 – Mechanical and Bid Package #16 – Electrical.
3. Saw cutting, removal and patching of slabs required for any interior MEP trades.
4. Joint sealants for roofing.
5. Roof expansion joints.
6. Fluid applied membrane air barriers.
7. Rigid insulation at the roof system.
8. Through wall flashing.
9. Louvers attached to MEP systems.
10. Installation of access doors and frames.
11. Access doors / panels not indicated on the documents that are required for MEP access created by either Bid Package #15 – Mechanical or Bid Package #16 – Electrical.

END OF BID PACKAGE

BID PACKAGE #11 – MASONRY**Scope Specific Inclusions:**

All work per Specification Sections

00 & 01	Complete Bidding and General Requirements
04 20 00	Unit Masonry
07 21 00	Thermal Insulation
07 27 26	Fluid-Applied Membrane Air Barriers

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the General Scope Items "Applies to All Bidders".

Unit Masonry

1. This scope of work is responsible for ALL masonry products, accessories etc. for the entire project.
2. All CMU walls both below grade and above where indicated. Include installation and removal of temporary bracing at CMU walls per applicable rules/regulations and industry standards.
3. All unit masonry where shown. Reference elevations, sections, and plans for additional information and details.
4. Perform layout for all masonry walls. All interior/exterior masonry wall construction layout to be responsibility of this scope of work unless noted otherwise
5. Include all stone masonry including but not limited to sill, copings, banding, etc. In general, but specifically where stone masonry is in contact or installed below grade provide and install the necessary sealers/barriers application as required.
6. Receive and install steel lintels. (material provided by others)
7. Complete washing and cleaning of all masonry materials and any residual grout, brick, or stone materials on adjacent areas/surfaces.
8. Flashings, flashing tape, drip edge, mortar net, weep, ties, anchors, control joints, etc. (all masonry accessories)
9. Masonry Contractor must work and coordinate their scope with exterior sheathing/waterproofing trade for installation of masonry ties, flashings and any other items that must penetrate walls to insure a complete weatherproof system.
10. Mortar and grout for all masonry applications.
11. Provide and install all masonry reinforcement/rebar.
12. Grout cells of CMU as required per documents or industry standards (whichever is more stringent).
13. Include all rigid insulation where masonry material is the substrate.
14. Reference interior finishes, include all masonry finished depicted.
15. Include all interior masonry as indicated.
16. The drilling and epoxying of reinforcing into existing floors slabs for masonry walls will be by Bid Package #11 - Masonry

Thermal Insulation

1. Provide and install all cavity wall insulation in exterior masonry walls as required for a complete exterior wall assembly as detailed in the construction documents.

Fluid-Applied Membrane Vapor Barrier

1. This bid package shall provide all work associated with specification section 07 27 31 – Air Infiltration Barrier.
 - a. Provide and install all Fluid Applied Membrane Vapor Barrier as required for a complete exterior wall assembly as detailed in the construction documents. This applies to all CMU and metal stud exterior wall assemblies requiring air infiltration barrier. All system accessories to provide a complete system shall be this Bid Package's to provide and install. Coordinate with BP#10 – General Trades for their window, curtain wall, storefront, doors, metal panels, etc. Also, where BP#13 – Drywall and Acoustics has exterior sheathing, ensure their systems are installed entirely prior to applying air barrier.

Work Excluded:

END OF BID PACKAGE

BID PACKAGE #12 – ROOFING**Scope Specific Inclusions:**

All work per Specification Sections

00 & 01	Complete
07 01 50.19	Preparation for Re-Roofing
07 42 13	Formed Metal Wall Panels
07 42 43	Metal Composite Material Wall Panels
07 54 19	Polyvinyl-Chloride (PVC) Roofing
07 62 00	Sheet Metal Flashing and Trim
07 72 00	Roof Accessories
07 72 53	Snow Guards

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

General

1. All work/responsibilities as listed in the General Scope Items (items 1-50 above) "Applies to All Bidders".
2. Contractor shall include the work required under each contract area as set forth in this bid package.
3. This Contractor shall be responsible for including an onsite General Superintendent for supervision and coordination, at all instances where either self-perform or subcontract work that is under this bid package's scope of work is present on site. This includes receiving and unloading materials.
4. Protect existing site materials to remain. Where damages occur by this bid package, patch and repair/restore to its original condition or replace. It is this bid package's responsibility to verify components that remain and protect as required.
5. Reference specification section 01 50 00 Temp Facilities for this trade's responsibility.
6. Contractor shall verify elevations of all existing building conditions to ensure new concrete work aligns appropriately. Any discrepancies shall be brought to Meyer Najem's attention immediately.
7. All patching/ repair work needed as a result of connecting to existing conditions shall be inclusive of this bid package to the extent this scope of work applies.

Roofing

1. Provide and install all flashings, reglets, counter-flashings as indicated.
2. Install all roofing, flashings, and boots for roof top equipment and any MEP vents or penetrations. It's the responsibility of this contractor to coordinate with the MEP trades.
3. Provide all coping caps, flashings, counter flashings, coping, and termination bars as indicated and required for a complete roofing system.
4. Provide & Install any Roof Hatches and any required accessories including all flashing, curbs, etc, if shown.
5. Coordinate work with Plumber for installation of Roof Drains.
6. Provide and install roof walkway pads where indicated.
7. Temporary enclosures (roofing/copings) as required shall be provided and installed under this bid package to ensure a weather tight exterior enclosure until building is enclosed and dried in as to not hinder the interior construction schedule.
8. This contractor shall provide dumpsters for their own scope of work.
8. Contractor to include means and methods to protect existing conditions that are to remain, from demolition activities.
9. Contractor shall coordinate with Bid Package #14 – Mechanical (Equipment Installation) for roof curbs / penetrations that have been abandoned and capped. The Roofing Contractor shall be responsible for removal of the existing curbs and piping and patching of roof deck, prior to new roofing.
10. Any new equipment curbs installed ahead of the roof contractor will require removal of the temporary flashings and installing new flashings, during the re-roof scope of work.

11. Contractor shall coordinate with the Bid Package #14 (Mechanical) for all locations of abandoned pipe penetrations and equipment curbs and shall be responsible for removal of those items and patching of roof deck, prior to re-roof.
12. Provide and install all required scupper sleeves, conductor boxes, gutters and downspouts as shown and required.
13. Provide splash blocks where downspouts discharge onto existing and new roofs.
14. Contractor to provide all new roof to roof, roof to wall and coping expansion joints as shown on the plans.

Work Excluded:

1. Furnishing Mechanical equipment curbs.
2. Blocking/plywood at parapet caps
3. Back of parapet wall sheathing

END OF BID PACKAGE

BID PACKAGE #13 – METAL FRAMING, DRYWALL & ACOUSTICS**Scope Specific Inclusions:**

All work per Specification Sections

00 & 01	Complete	09 22 16	Non-Structural Metal Framing
05 40 00	Cold-Formed Metal Framing	09 27 13	Glass-Fiber-Reinforced Gypsum Fabrications
06 16 43	Gypsum Board Sheathing	09 29 00	Gypsum Board
07 21 00	Thermal Insulation	09 51 13	Acoustical Panel Ceilings
07 21 29	Spray Applied Cellulose Insulation	09 77 23	Fabric-Wrapped Panels
07 24 15	Polymer-Based Direct Applied Finish System (DAFS)	09 84 00	Acoustic Room Components

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the General Scope Items “Applies to All Bidders”.

Cold-Formed Metal Framing

1. Provide and install all structural metal framing including but not limited to all studs, tracks, headers, boxes, fasteners, plates, clips, gussets etc. for a complete structural metal framing system.
2. Provide engineering for exterior framing conditions.

Non-Structural Metal Framing

1. This scope is responsible for all non-load bearing metal framing.
2. Include all interior wall partition construction as noted on documents.
3. All stud track and wall cavities shall be vacuumed and free of dust and debris before drywall is installed.
4. Metal framing at all curtain track locations as detailed.

Gypsum Board

1. All floors shall be swept/vacuumed and cleaned thoroughly after taping and sanding activities. Any means necessary shall be utilized to Remove buildup of joint compound off of the slab immediately after work completion.
2. Provide drywall touchup to drywall surfaces after all casework, trim, and Division 10 items are installed.
3. All gypsum board for all bulkheads, ceilings, walls, column wraps, soffits, etc. for a complete package. Include all impact resistant drywall, moisture resistant drywall etc. as required per partitions schedule and specifications.
4. Drywall control joints as required per field conditions/industry standards.
5. Coordination with Mechanical & Electrical trades for all wall penetrations.
6. Label of all fire rated walls above ceilings as required.
7. Expansion joint material where required at all drywall/metal stud locations.
8. All detailing at doors jambs and head conditions.
9. All U.L./Rated assemblies as required/indicated for all materials supplied or installed by this scope. (Drywall, framing, taping, finishing, etc.)
10. Include all drywall finishing. Provide a minimum level of finish of 4 and include level 5 where indicated or required.
11. Provide and install all tile backing boards / cement backer boards at locations required.
12. Unless noted other wise this scope of work is responsible for all outlet/box backing requirements. Refer to wall sections/types and specifications for additional information. Including but not limited to outlet/box baking pads (sound, fire rated, etc.), radiation protection (outlet/boxes wrapped or backed by appropriate lead thickness per project requirements).
13. Fiber reinforced plastic panels. Include all trim and installation accessories required for installation.

Gypsum Board Sheathing

1. Provide and install all continuous insulation/exterior sheathing board and accessories where indicated for a complete system, including all joint treatment requirements etc.
2. At masonry locations coordinate brick tie installation with Bid Package #11 - Masonry prior to insulation board installation. After framing the masonry will follow with brick ties to studs. Once ties are installed insulation board will be installed and brick ties poked through, insulation board patched, flashed, and prepped for air barrier.
3. Provide and install all exterior sheathing where indicated including, but not limited to, exterior walls, soffits, canopies, back side of parapet walls etc.
4. Include all joint treatment required per designed wall system. Including, but not limited to, caulking joints, taping joints, flashings etc. as required.
5. Provide termination at all continuous insulation / sheathing locations at intersections with window systems. This includes applicable insulation, flashings, tapes, insulation board and gypsum sheathing joint / penetration conditions. Caulking of window systems by others.
6. Provide and install all required metal nailer(s) at openings.
7. Interior plywood wall sheathing per wall partitions schedule and details.

Thermal Insulation

1. Provide and install all thermal insulation within metal stud framing including but not limited to partitions, exterior walls, parapets, soffits, canopies, etc. This scope responsible for all insulation with the exception of horizontal roof insulation, underground / slab insulation.
2. Provide and install all rigid insulation behind spandrel/glazing panels.
3. Sound batt insulation at ceilings where required per partition schedule.
4. Include stuffing or filling of misc. voids around openings and penetrations with mineral wool.

Acoustical Panel Ceilings

1. Access doors shown on the reflected ceiling plan. Provide rated/non rated doors as required at locations indicated. Other trades which required access doors, but are not shown on the reflected ceiling plan will be supplied by the trade requiring the access door and installed by this scope within metal studs and drywall construction.
2. Suspension systems required at drywall ceilings.
3. Acoustical sealants.
4. All acoustical ceilings. Include all suspension systems, trim, grid, panels etc. per the finish plans and specifications.
5. Receiving, unloading, and staging for all material provided and material provided by others but installed by this scope of work (wall protection etc.)

Wood Grille Ceilings and Walls

1. Furnish and install all Wood Grille Ceiling and Walls as indicated on the contract documents.

Fabric-Wrapped Panels

1. Furnish and install all Fabric Wrapped Panels as indicated on the contract documents.

Acoustic Room Components

1. Furnish and install all Acoustic Room Components as indicated on the contract documents.

Work Excluded:

1. Roof Insulation/Below Grade Insulation

END OF BID PACKAGE

BID PACKAGE #14 – FLOORING**Scope Specific Inclusions:**

All work per Specification Sections

00 & 01	Complete
03 35 13	Polished Concrete
03 54 16	Hydraulic Cement Underlayment
09 30 00	Tiling
09 64 66	Wood Athletic Flooring
09 65 13	Resilient Base and Accessories
09 65 19	Resilient Tile Flooring
09 65 20	Rubber Tile Flooring
09 65 23	Luxury Vinyl Flooring
09 65 66	Resilient Athletic Flooring
09 66 23	Resinous Matrix Terrazzo Flooring
09 66 25	Resinous Matrix Terrazzo Flooring — Vitrification
09 67 23	Resinous Flooring
09 68 13	Tile Carpeting

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the General Scope Items “Applies to All Bidders”.

Concrete Surface Treatment

1. This project is utilizing ElementFive Concrete Slab treatment. Additional information can be found at www.specificationproducts.com. All warranties and guarantees shall be maintained.
2. Provide diamond polished concrete floor treatment as indicated in the contract documents.

Hydraulic Cement Underlayment

1. Float floor at material transitions for a smooth finish.
2. Include minor floor prep to accept new finishes.

Tiling

1. Include tiling for entire project. Including all floor tile, wall tile, trim, accessories, grout, membranes, etc.
 - a. Grout joints to be free of voids and have smooth finish.
 - b. Provide cleaning of all tile to remove all haze and debris once grouting has been completed. Properly dispose of grout water.

Wood Athletic Flooring

1. All Wood Athletic Flooring as indicated on the contract documents including Maple flooring isolator pads, subfloor, rubber base, expansion covers, threshold, etc.
2. This scope of work to incorporate flooring/wall material patterns/directions as required by the contract documents.

Resilient Base and Accessories

1. All wall base materials. (Wood base provided and installed by others)

Rubber Tile Flooring

2. All rubber tile flooring as indicated in the documents for a complete finished product.

Luxury Vinyl Flooring

1. All LVT as indicated in the documents for complete finished product.

Resinous Matrix Terrazzo Flooring

1. All resinous matrix terrazzo flooring as indicated in the documents for complete finished product.

Resinous Flooring

1. All resinous flooring as indicated in the documents for complete finished product.

Tile Carpeting

1. All cuts around outlets and fixtures should be tight and smooth so that cover plates, trims or escutcheons will cover completely.
2. Provide required RH Moisture Testing prior to flooring installation. Provide written documentation to the Contract Manager prior to installation.

Work Excluded:

1. Cement Board
2. Major Floor Prep
3. Wood Wall Base
4. Moisture Mitigation

END OF BID PACKAGE

BID PACKAGE #15 – MECHANICAL**Scope Specific Inclusions:**

All work per Specification Sections

00 & 01	Complete
20 00 10	Common Work Results for Fire Suppression, Plumbing and HVAC
20 00 50	Common Materials and Methods for Fire Suppression, Plumbing and HVAC
20 00 60	Common Pipe, Valves and Fittings for Fire Suppression, Plumbing and HVAC
20 01 80	Common Insulation for Plumbing and HVAC
21 10 00	Water Based Fire Suppression
22 11 19	Domestic Water Specialties
22 13 19	Waste Specialties
22 14 23	Storm Specialties
22 40 00	Plumbing Fixtures
22 47 00	Drinking Fountain and Water Coolers
23 05 93	Testing and Balancing
23 09 00	HVAC Instrumentation and Controls
23 21 13	Hydronic Piping Systems
23 23 00	Refrigerant Piping
23 25 00	HVAC Water Treatment
23 31 13	Metal Ducts
23 33 00	Air Duct Accessories
23 34 23	HVAC Power Ventilators
23 36 00	Air Terminal Units
23 37 13	Diffusers, Registers, Grilles & Louvers
23 37 23	HVAC Gravity Ventilators
23 73 13	Modular Indoor Air Handling Units
23 74 13	Custom Built Outdoor Air Handling Units
23 81 34	Mini Split Air Conditioning
23 82 16	Air Coils
23 82 19	Fan Coil Unit
23 82 33	Convectors & Finned Tube Radiation — Hydronic
23 82 39	Unit Heaters — Hydronic
23 82 43	Radiant Ceiling Panels — Hydronic

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the General Scope Items (items 1-50 above) "Applies to All Bidders".
2. Contractor shall include the work required under each contract area as set forth in this Bid Package.
3. Provide all labor, material, scaffolding, hoisting & equipment necessary to complete this Bid Package.
4. Provide all material, labor, equipment, and mobilizations necessary to supply and install the complete Mechanical scope of work, including but not limited to Fire Suppression, Plumbing and HVAC, including all related accessories, as per the documents and the below items, required for this project.
5. This bid package shall include in their base bid all costs associated with participating in the MEP Coordination efforts as described in "01 32 50 – BIM Coordination", including BIM Modeling for all fire suppression, plumbing, mechanical in coordination with framing, superstructure, electrical and food service equipment.
 - a. Note: This Bid Package #15 – Mechanical Contractor will provide a BIM Manager for the project and will run coordination meetings for the project.

6. Each Trade shall have their own respective BIM Drafter (i.e., one for fire protection, one for plumbing, one for HVAC, one for mechanical waters, etc.) Contractor shall coordinate with Bid Package #16 – Electrical for items required within Specification Divisions 26, 27, and 28.
7. All concrete housekeeping pads required for this Scope of Work to be provided by this Bid Package #15 – Mechanical Contractor.

Fire Suppression

1. Include all scope of work indicated, implied, or required by the Fire Protection Drawings and specifications.
2. Provide and install all pressure and flow sensors required. Line voltage power connections provided by electrical subcontractor to devices provided by this scope.
3. Fire protection scope items and related scope indicated on architectural, civil, HVAC, plumbing, fire protection, structural and other contract documents for a fully operational fire suppression system. Other than as outlined in the exclusions section below.
4. Include all testing required for this scope.
5. Connections to the civil utility infrastructure. The piping will be brought into the building by others.
6. All mains, branch piping, RPZ's, heads, accessories, escutcheons, etc.
7. Furnish and install all sleeves, carriers, supports etc. required for this scope.
8. Install flashing, counter flashing, and/or sealant at all penetrations of Fire Sprinkler System components through the exterior wall system and/or waterproofed areas unless same is specifically shown to be provided by another contractor. The Roofing Contractor shall seal all roof penetrations.
9. Provide all materials, labor, and equipment for any applicable testing of this system.
10. Drafts of all required operation and maintenance manuals, valve tagging charts, etc. as outlined by the plans/specifications, or required by governing codes are to be submitted no later than Project 50% completion. Spare parts, as-built drawings, pipe identification, etc. are to be provided per specifications/drawings.
11. All miscellaneous supports for piping and equipment, risers, etc. required for the proper completion of this scope of work. Structural framework and supports provided by others is limited to that specifically shown and indicated on the Structural Drawings.
12. Coordinate so that no pipe is run over the top of electrical or communication panels. MEP coordination may not show all locations of service panels, Subcontractor to ensure that this requirement is met.
13. Coordinate the sprinkler head locations with the architectural reflected ceiling plans and shop drawings. Additional heads which may be required to meet code are to be included at no charge.
14. All required pipe labeling shall be installed prior to the installation of ceiling grid.
15. Provide shop drawings, submittals and operation manuals as required per specifications.
16. Seismic considerations as required by the design documents per local building codes and NFPA Standards. Reference contract documents for site classification for project.
17. Coordinate routing and layout with other Mechanical and Electrical trades to identify and eliminate conflicts.
18. Review RCP drawings, demolition scope and new architectural scope. New and existing sprinkler heads need to be centered in ceiling tile and properly coordinated with other ceiling types.
19. Provide all demolition, as applicable, for your scope of work. This includes the traditional "cut, cap and make safe" scope as well as dropping items and removing them from the building to the dumpster (dumpsters by others). This project requires systematic removal of these items in a manner that ensures consistent and continuous operations, so this work shall be coordinated by this trade.
20. Each sprinkler system zone, which is taken out of service to preform piping and sprinkler modifications, must be put back into service each day before the contractor leaves the site. No Fire Protection system can be left out of service for any reason over an extended period of time.
21. Provide BIM modeling. Incorporate overhead ceiling coordination drawings that identify routing for Fire Suppression, Plumbing, Electrical and HVAC. Routing of individual systems shall be provided per the approved coordination drawings and any variances that arise the subcontractor that has deviated from the approved coordination drawings will be responsible for any costs associated.

Mechanical / Plumbing

1. Include all scope of work indicated, implied, or required by the HVAC Drawings and specifications. HVAC scope items and related scope indicated on architectural, civil, HVAC, plumbing, food service, fire protection, structural and other contract documents. Other than as outlined in the exclusions section below.
2. Provide all work in compliance with all applicable codes.
3. Include all supports and bracing of all plumbing items as required.
4. Provide all demolition, as applicable, for your scope of work. This includes the traditional "cut, cap and make safe" scope as well as dropping items and removing them from the building to the dumpster (dumpsters by others). This project requires a systematic removal of these items in a manner that ensures consistent and continuous operations, so this work shall be coordinated by this trade.
5. Include the labeling and tagging of all items as required.
6. Pipe sleeves at the foundation walls as required/indicated.
7. Provide access panels for all scope items as required. Access panels will be installed in drywall and CMU partitions by others.
8. Equipment condensate piping as required.
9. This bid package shall request all submittals from the Construction Manager that affect their scope of work to cross reference power requirements versus what is shown on the Contract Documents.
10. Test and Balance for both plumbing and HVAC systems will be contracted directly by Meyer Najem. Please coordinate with Meyer Najem superintendent and the Test and Balance (TAB) contractor selected.
11. Provide maintenance and service of all equipment and systems provided per Scope of Work from the time it is put into service, during construction, and until acceptance by the Owner. Warranty will take effect with acceptance by the Owner in accordance with the Certificate of Substantial Completion. Extended warranty shall be provided for all equipment used during construction.
12. All miscellaneous supports for piping and equipment, risers, etc. required for the proper completion of the Mechanical (Plumbing & HVAC) Scope of Work. Structural framework and supports provided by others is limited to that specifically shown and indicated on the Structural Drawings.
13. Coordinate so that no pipe is run over the top of electrical or communication panels. MEP coordination may not show all locations of service panels, this scope of work to ensure that this requirement is met.
14. Provide BIM modeling. Incorporate overhead ceiling coordination drawings that identify routing for Fire Suppression, Plumbing, Electrical and HVAC. Routing of individual systems shall be provided per the approved coordination drawings and any variances that arise the subcontractor that has deviated from the approved coordination drawings will be responsible for any costs associated.
15. Include final connection to all owner/client provided equipment as applicable.
16. Provide all labor and material for complete installation of all above and below grade sanitary, venting, and plumbing piping as required for a complete working plumbing system. Connect to the civil utilities. Domestic service shall be provided to 12" AFF by the Civil Utility Contractor.
17. Include the complete insulation of all plumbing piping as required / indicated.
18. Include the make safe of all plumbing items scheduled to be demolished prior to demolition activities. Tag/identify all plumbing items readied for demolition.
19. Include all trench drain(s) and covers as indicated.
20. Provide all machine, hand, and rock excavation, backfilling, and spoil removal as required for the proper completion of the Work. Backfill material installed must be in accordance with the applicable sections of the Contract Documents.
21. Sanitary waste and vent piping as required.
22. Complete installation of the interior roof drains as required. This includes the connection to the exterior sub surface drainage piping as required. Exterior downspouts and connections are by others.
23. Include all domestic water piping as required.
24. Include all gas piping systems complete. Including but not limited to pipe, fitting, venting, control panels, etc. as required.
25. Include all shutoffs, isolation valves, as required.
26. Include grease waste piping and the grease interceptor (if shown)
27. Coordinate all new plumbing fixtures that are indicated and confirm applicability of the existing carriers and if they are scheduled to remain. Provide new carriers where necessary.

28. Provide all slab saw cutting and trench excavation/backfill as required. Replace slabs as necessary, include applicable doweling and slab finish. Slab overcuts are not allowed, proper saw cutting should be utilized to avoid overcuts. Provide all slab infills as necessary. Include E5 admixture (coordinate with forthcoming approved concrete mix designs for this project).
29. Re-working of the existing ductwork, mechanical piping, mechanical equipment, etc. as indicated.
30. All HVAC Equipment. Reference equipment schedules etc. for additional information. Including but not limited to: Rooftop dehumidification units, air cooled condensers, Rooftop units, Fans, gas fired infrared unit heaters, electric duct coils, VAV terminal units, and ductless split systems as indicated.
31. Provide all electric duct mounted heaters where indicated. Electrical connections by others.
32. Temperature Control systems complete as indicated on the documents. Coordinate with existing facilities and equipment. Provide any necessary demolition, removal or remedial work. Coordinate the phasing of these items to keep all building systems online during construction. Make any temporary connections or work-arounds to maintain functionality of all active non-construction building areas. Provide new graphics and interface. This scope of work is responsible for all wiring, devices for this system.
33. Provide cleaning of existing ductwork. This work shall be performed prior to connecting to new ductwork, VAVs, etc. Reference the drawings for additional information and requirements.
34. Any hoisting or rigging associated with equipment installation. Any necessary cranes shall be set in a location that is capable of supporting the applicable loads. Obtain proper crane permits in a timely manner. Protect roof as necessary. The delivery paths for the AHUs should be studied and understood during preparation of the bid and incorporated into planning. The AHU adjacent the kitchen/servery requires a difficult installation (and demo) sequence.
35. Provide necessary refrigerant lines as indicated.
36. Dampers as indicated/required.
37. This subcontract is responsible for all angles, dampers, or sheet metal etc. for HVAC penetrations required to achieve fire rating. Firestopping will be provided by others.
38. Flexible duct connections where required and/or where ductwork crosses the building expansion joints.
39. Include any curbs or housekeeping pads for this scopes equipment. Confirm adequacy of existing pads schedule for reuse. If these pads must be made larger, include that work in this scope.
40. Coordinate all work with the reflected ceiling and structural drawings. The architectural plans shall take precedence.
41. Meyer Najem will lead the BIM efforts and coordination meetings.
42. Each trade shall have their own drafter: plumbing and HVAC
43. Coordinate all shutdowns with the Construction Manager along with the school 48 hours in advance of shut down starting. If school operations or if work by other Bid Packages cannot accommodate the shutdown, said shut down will need to occur on a weekend or after hours. All overtime to be included in this bid package.
44. During construction, this contractor shall perform pressure testing of all piping systems (minimum 1.5 times working pressure or as specified – whichever is greater). All tests shall be witnessed by the Construction Manager and test reports and documentation shall be created by this contractor. Include such reports in on-site binders along with all permits, inspections, and testing procedures immediately after test are performed. Provide as-built drawings of system/piping being tested with each test report outlining the section of piping tested.
45. No layout markings are permitted on sealed concrete floors. Reference finish drawings for sealed concrete locations.
46. Furnish access doors and frames required for this Bid Package and not shown on the drawings. Access panels required for this Bid Package will be provided and installed by this Bid Package. Access panels shown on the drawings will be provided and installed by others.
47. Cut holes/openings in acoustic ceiling tiles and install for own work (inclusive of any sub-contractor's work). Ceiling tiles to be provided by others.
 - a. This Bid Package will be responsible for any damaged ceiling tile after the above ceiling inspection and after ceiling tiles have been dropped.
48. While the General Trades will be performing firestopping and fire caulking, this bid package will be responsible to confirm that all penetrations are ready for fire caulking. If any penetrations are added after fire caulking or firestopping is complete in each area, this bid package will be responsible for labor, materials, and equipment associated with firestopping these added penetrations.

49. Seal all interior and exterior wall / ceiling penetrations.
50. Penetrations in exposed areas to have escutcheon rings installed to fully cover the penetration hole.
51. After removing piping, duct, and equipment, patch all holes, penetrations and openings with materials matching adjacent surfaces.
52. If this contractor requires structural member for support of pipe hangers, etc. and cannot hit nearby joists or beams, it shall be this contractor's responsibility to provide and install secondary supports, as approved by the project structural engineer and per the material data requirements for a complete and secure installation.
53. Provide all tests required for this Scope of Work. All tests are to be witnessed by the Construction Manager.
54. Include all demolition indicated on the Mechanical drawings and indicated or implied by other drawings/documents.
55. Include cutting and capping of systems when required.
56. Provide and install the natural gas system complete per the drawings and specifications. Provide and install all indicated plumbing fixtures and equipment as scheduled on drawings.
57. In wall rough in for temperature controls will be provided by the electrical contractor where indicated. Additional pathways shall be provided by this trade. This trade shall also provide all devices, cabling and copper required for a complete operational Temperature Controls System.
58. Provide all demolition and removal of existing temperature controls devices and cabling/wiring.
59. This Contractor shall furnish AND install all access panels required for access to Bid Package #15 – Mechanical scope items not shown on the drawings.

Work Excluded:

1. Joint sealants – (caulking) of plumbing fixtures.
2. Firestopping. Provided by Bid Package #10 – General Trades.
3. Fire extinguishers and cabinets
4. Fire stopping

END OF BID PACKAGE

BID PACKAGE #16 – ELECTRICAL**Scope Specific Inclusions:**

All work per Specification Sections

00 & 01	Complete	26 56 00	Exterior Lighting
26 05 00	Common Work Results for Electrical	27 05 00	Common Work Results for Communications
26 05 19	Low-Voltage Electrical Power Conductors & Cables	27 05 26	Grounding and Bonding for Communications Systems
26 05 26	Grounding & Bonding for Electrical Systems	27 05 28	Pathways for Communications Systems
26 05 29	Hangers & Supports for Electrical Systems	27 05 53	Identification for Communication Systems
26 05 33	Raceways & Boxes for Electrical Systems	27 11 00	Communications Equipment Room Fittings
26 05 43	Underground Ducts and Raceways for Electrical Systems	27 11 16	Communications Cabinets, Racks, Frames, & Enclosures
26 05 44	Sleeves & Sleeve Seals for Electrical Systems	27 11 19	Communications Termination Blocks and Patch Panels
26 05 53	Identification for Electrical Systems	27 14 13	Communications Copper Riser Cabling
26 05 59	Ice Melting System	27 14 23	Communications Optical Fiber Riser Cabling
26 09 23	Lighting Control Devices	27 15 00.23	Audio Video Communications Horizontal Cabling
26 22 00	Low-Voltage Transformers	27 15 13	Communications Copper Horizontal Cabling
26 24 16	Panelboards	27 15 43	Communications Faceplates and Connectors
26 27 26	Wiring Devices	27 41 16	Integrated Audio Video Systems and Equipment
26 28 13	Fuses	27 41 30	Athletics Scoreboards and Equipment
26 28 16	Enclosed Switches & Circuit Breakers	27 51 23	Central Sound and Paging System
26 29 13	Enclosed Controllers	27 53 13	Clock Systems
26 29 23	Variable Frequency Drives	28 13 00	Access Control
26 43 13	Surge Protection for Low-Voltage Electrical Circuits	28 31 11	Digital, Addressable Fire-Alarm System
26 51 00	Interior Lighting		

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the General Scope Items (items 1-50 above) "Applies to All Bidders".
2. Contractor shall include the work required under each contract area as set forth in this Bid Package.
3. Provide all labor, material, scaffolding, hoisting & equipment necessary to complete this Bid Package.
4. Provide all material, labor, equipment, and mobilizations necessary to supply and install the complete Electrical scope of work, including but not limited to, Power, Lighting, Grounding, Communications and Fire Alarm System, including all related accessories, as per the documents and the below items, required for this project.
5. This bid package shall include in their base bid all costs associated with participating in the MEP Coordination efforts as described in "01 32 50 – BIM Coordination", including BIM Modeling for all electrical, communication and fire alarms in coordination with framing, superstructure, electrical and food service equipment.
6. Upon completion of project, this contractor shall be responsible for providing testing of installed systems as required and to satisfy the requirements of the State and local authorities having jurisdiction.
7. Contractor shall coordinate with Bid Package #15 – Mechanical for items required within Specification Divisions 21, 22, and 23.
8. All concrete housekeeping pads required for this Scope of Work to be provided by this Bid Package #16 – Electrical Contractor.
9. Bid Package #10 – General Trades is responsible for furnishing to either Bid Package #11 – Masonry or Bid Package #13 – Metal Framing, Drywall & Acoustics Contractors for installation of all access doors and frames that are shown on the drawings (including MEP), as per specification section 08 31 13.
 - a. Note: access/inspection panels or doors that are not shown, but required to access junction boxes, motors, etc. shall be the responsibility (furnished and installed) of the trade (Bid Package) requiring. Panels to be coordinated and furnished with appropriate fire rating of ceiling they are installed in.
10. This bid package shall carry an allowance for thirty (30) temporary exit signs to be installed within this scope

Electrical / Low Voltage

1. Contractor shall reference Drawing E001 for Symbols, Abbreviations & General Notes.
2. A working fire alarm system must always remain operational once directed by the Construction Manager.
3. Provide power and connections to all equipment / furnishings indicated, including plumbing, mechanical and architectural contract documents.
4. Coordinate fire alarm panel labeling with Construction Manager as well as local Fire Department.
5. This contractor shall coordinate with the Owner and the local utility for all electrical and fiber optic tie-ins.
6. Refer to drawing the Life Safety Plan, for building codes, code analysis and legend, general notes, occupancy notes and rated wall locations.
7. Include cutting and patching of slabs, walls and ceilings as required for installation of scope as indicated on the contract documents.
8. Seal all interior/exterior ceiling and wall penetrations.
9. Provide sleeves for all piping and conduit penetrations through partitions and/or full height walls, foundations, floor, and roof, whether shown or not. Holes or access through previously constructed foundations, walls, floor, or roof to be core drilled, drilled with a hole saw or cut and patched by this contractor. Maintain indicated fire rating of substrate at pipe penetrations. Fire caulking will be provided by Bid Package #10 – General Trades.
 - a. Provide sleeves and conduit(s) stubs outside of building foundations as required for incoming secondary power, generator power, fire alarm PIV, grounding loop wire, telecommunication incoming lines, telephone / fiber optics and site lighting/power.
 - i. Coordinate sleeves installation with the Building Concrete Contractor no less than 72 hours prior to concrete being placed.
10. Provide and set all sleeves with water seals required for penetration through concrete foundations. Coordinate with Building Concrete Contractor no less than 72 hours prior to concrete being placed.
11. PVC Conduit shall be bent using a hot box. Using open-flame methods to heat and then bend conduits are not acceptable.
12. Provide / cut holes in roof sheathing for materials passing through roof and make ready for roof insulation, prior to roofing being installed. This contractor shall be responsible for coordination with Bid Package #12 – Roofing to ensure a watertight system.
13. Provide all excavation and backfill with approved and specified granular materials, both for exterior and interior of building, for own work (power, lighting, data, and systems conduits). All excess spoils to be hauled off-site.
14. Provide site dewatering for work within this bid package as to not delay the construction schedule. Refer to Geotechnical Report for water table elevations. Include well points as required to complete your scope of work.
15. Provide all concrete housekeeping/transformer pads and concrete pole bases for Electrical scope of work, as outlined in this Bid Package, as shown and or required for a complete system.
16. Provide and install hangers and supports per the documents as required and per code for this Electrical scope of work, including Unistrut for all equipment requiring supports for a complete installation.
17. If this contractor requires structural member for support of conduit / pipe hangers, etc. and cannot hit nearby joists or beams, it shall be this contractor's responsibility to provide and install secondary supports, as approved by the project structural engineer and per the material data requirements for a complete and secure installation.
18. Contractor shall Include caulking, patching, and sealing of all exterior building penetrations for own work with approved product and/or approved installer as to not void manufactures warranty.
19. When installation work by this Bid Category is required to be on existing or new roofs, protection of the roof is required by this bid package.
20. Provide putty pads where required by code, in rated assemblies.
21. Contractor shall reference and include directions and instructions as outlined in specification section 01 50 00 – Temporary Facilities for temporary power and temporary lighting requirements during construction.

22. This Bid Package shall expedite the submittals, procurement, installation and start-up of the main electrical gear, main electrical service, generators, and transfer switches to allow for mechanical equipment start-up. This includes all housekeeping pads, underground raceways, above ground raceways, conductors, terminations, and testing. This shall not relieve this contractor from furnishing temporary facilities in accordance with 01 50 00 – Temporary Facilities Matrix. Coordinate underground conduit elevations with Bid Package #09 – Sitework.
23. Provide and install site lighting as shown and specified in project documents, inclusive of all excavation/trenching, conduit wiring and reinforced concrete pole bases.
24. Where conduits pass below concrete or asphalt roads, parking lots, or drives this contractor shall furnish and install sleeves as necessary to allow for installation and removal.
25. Provide all building lighting and controls per lighting plans, fixture schedules and details.
 - a. Coordinate lighting layout with structure and room layout.
 - b. Any recessed lighting installed in rated ceilings shall be installed with rated hats.
26. Provide and install a complete power system including all devices, mechanical rough-ins, panels, switchgear, distribution, disconnects, etc. per drawings, specifications and requirements.
27. Provide and install Surge Protection for Low-Voltage Electrical Power Circuits
28. All conduits (interior and exterior) shall be installed with pull strings and located with dimensions off physical landmarks that will be visible once all work is complete. Note dimensions on as-built documents.
29. Shut down requests are to be submitted and coordinated with the owner as well as Meyer Najem 48 hours prior to the shutdown beginning. In the event the shutdown is not approved, the scheduled work must take place afterhours or on a weekend. Overtime for this work shall be included in this bid package. Shutdowns that will impact other trades shall be coordinated no less than two (2) weeks in advance with the Construction Manager and the Owner.
30. Panel schedules shall be installed in panels prior to punch. Existing panels that have circuits added, removed, or changed in anyway will require an updated panel schedule to be installed.
31. Contractor is responsible for creating a layout drawing with dimensions off structural grid lines locating roof openings. Roofing contractor will sign off on the location to confirm no items interfere with the taper system. Steel contractor to install all framing per mechanical contractor's layout drawings.
32. This bid package shall install, wire, and test all flows, tampers, etc. provided by Bid Package #15 – Mechanical.
33. This bid package shall include floor protection at locations where using equipment which could leak fluids and stain floor below. If staining occurs, electrical contractor to take all steps necessary to remove stain at no cost to owner.
34. This bid package is to verify power requirements of equipment prior to beginning the work.
35. This bid package shall furnish and install the VFDs, motor starters, or the like for equipment furnished by Bid Package #15 - Mechanical. This shall include any mounting hardware, supports, racks, etc. Coordinate with Bid Package #15 - Mechanical.
36. This bid package shall furnish labor to support factory start-up efforts by Bid Package #15 - Mechanical for pumps, mechanical equipment, etc. This shall include reasonable troubleshooting of issues.
37. This bid package shall furnish and install any disconnects required for a code-compliant installation of all equipment. This bid package shall cross reference the Contract Documents and submittals for equipment furnished by other contractors to determine the extents where disconnects may not be depicted but required for a complete installation.
38. This Bid Package shall furnish all labor, material, and equipment for circuits for any toilet, bath, or laundry accessories furnished by Bid Package #10 – General Trades that require power or hard-wired electrical connections shown or not shown on the "E" Series drawings. This contractor shall reference each accessory's make and model number on the Toilet Accessory Schedule.
39. Provide electrical service to back-lighted building signage shown on the building Elevations in the "A" Series drawings.
40. This bid package shall request all submittals from the Construction Manager that affect their scope of work to cross reference power requirements versus what is shown on the Contract Documents.
41. Provide electrical/system hook-ups for fire/smoke rated dampers in rated partitions as required. Refer to mechanical and life safety drawings for location of dampers and rated walls for coordination, respectively.

42. Provide and install a complete Fire Alarm System per the drawings and specification section 28 31 11. Whether indicated or not, this Contractor shall include all labor, materials, and equipment for all PIVs to be monitored by the fire alarm system.
43. Contractor to provide the Communications System and Electronic Safety and Security System complete per the T-Series Drawings and Division 27 and Division 28 Specifications
44. System to include but not be limited to, intercom speakers, data outlets and cabling, fiber optic backbone termination and labeling, ER/TR rack/equipment cabinets, system grounding, and door security and access control.
 - a. Bid Package #10 – General Trades shall be responsible for furnishing and installing all access door hardware (devices), including ADA push buttons / plates, as listed in the 08 71 00 specification.
 - b. Bid Package #16 – Electrical shall install all conduits, power, and low voltage wiring, including ALL terminations and including service to the card readers and ADA stations complete, to provide a complete door access and security working system. This contractor shall also coordinate all raceway requirements with Bid Package #10 – General Trades prior to door frames being installed.
 - c. The Owner will be responsible for furnishing and installing the card readers.
 - d. Bid Package #10 – General Trades will be responsible for coordination with this package and the Owner for installation and timing for all access door hardware.
 - e. Reference telecommunication drawings for access control wiring details.
 - f. This bid package MUST provide adequate manpower to follow Bid Package #11 – Masonry for all electrified door hardware requirement rough ins.
 - g. This also includes all in wall electrical, low voltage conduit, etc. as the construction documents require.
45. All patch cords and cabling to be provided and/or installed per the specifications.
46. Provide all fire treated wood wall sheathing required as back-up boards, including but not limited to electrical panels, switchgear, phone, and data boards, etc. at locations indicated on the drawings and/or required by code or standard electrical means and methods and specification section 06 16 00.
47. This Bid Package shall be responsible for ensuring that the Fire Alarm and PA System are always actively tied in for occupied spaces. This Bid Package shall also be responsible for ensuring and testing this function prior to handover of each unique phase of the project, prior to hand over. By the time the project is done, the Fire Alarm and PA System shall be in working condition throughout the school in unison. Coordinate with MNC and BCSC as required to achieve this scope item.
48. Contractor to be responsible for coordination and integration of all systems, equipment, lighting, etc. that becomes part of the Building Management System.
49. Note: all underground work requiring saw cutting shall include layout, sawcut, remove, perform work, and pour back to an agreed upon elevation as coordinated with the finished flooring material.
50. Contractor must be present on site for all instances of rough in within masonry walls, including six (6) Day Work Weeks as required.
51. Where electrical items are to be installed above decorative/open ceiling systems and are exposed to view, all materials are to be installed in a finished manner to accept paint. All cabling installed above these ceilings must be installed in conduit.
52. Cut holes/openings in acoustic ceiling tiles and install for own work. Ceiling tiles to be provided by Bid Package #13 – Metal Framing, Drywall & Acoustics.
 - a. This Bid Package will be responsible for any damaged ceiling tile after the above ceiling inspection and after ceiling tiles have been dropped.
53. While Bid Package #10 will be performing firestopping and fire caulking, this bid package will be responsible to confirm that all penetrations are ready for fire caulking. If any penetrations are added after fire caulking or firestopping is complete in each area, this bid package will be responsible for labor, materials, and equipment associated with firestopping these added penetrations.
54. Fixture lamps that are dimmed or failed shall be replaced at substantial completion.
55. Fixtures shall be final cleaned, touched up and adjusted prior to substantial completion and just prior to punch list as coordinated with the Construction Manager.
56. This Bid Package shall make available their designated field representative during any inspections by the Authority Having Jurisdiction as deemed necessary by the Construction Manager.

57. Final cleaning of equipment furnished and installed under this bid package is to be included by this Bid Package.
58. This Bid Package and applicable subcontractors shall participate in occupancy testing as deemed required by the construction manager, including comprehensive pre-testing of all systems and electrical components. Additional time for multiple visits must be included to validate all special systems to the satisfaction of the Construction Manager including electrical distribution testing and validation of the generator sets and paralleling gear and/or transfer switches as required.
59. This Bid Package shall include the cost for off-hours work for shutdowns, tie-ins, or any other work that could interfere with the work of other Prime Contractors or the Owner's Operations.
60. This Bid Package shall furnish and install the rough-ins for temperature controls. This Bid Package shall provide 120V power to all temperature control panels, 120V temperature control devices, and temperature control transformers. Reference also M-series drawings for locations. If no location is shown, subcontractor to coordinate with Bid Package #15 - Mechanical for location.
61. All devices shall have circuitry clearly identified per the Contract Documents. This includes panels, disconnects, wiring devices, etc. All electrical distribution equipment shall be tagged with phenolic resin tags.
62. All permanent panel schedules shall be installed by the time of Final Inspection.
63. By submitting a bid, this contractor acknowledges that they will participate in the below punch list procedure:
 - a. Approximately four weeks from substantial completion the Construction Manager will perform a punch list walkthrough. These items are meant to minimize the number of items that may or may not be found on the final punch list walkthrough. All items identified in the Construction Manager walkthrough must be corrected no more than two (2) weeks following the issuance of the punch list.
 - b. As scheduled, a final punch list walkthrough will be scheduled with the Owner and Architect. All items identified in the final punch list walkthrough must be corrected no more than two (2) weeks following the issuance of the punch list.
 - c. Each Contractor's Field Representative must certify, in writing, to the Construction Manager when items are corrected. Failure to do so may result in delayed payment.
64. Provide only, all electrical non-metal conduit and sheet metal boxes as required for door access control, exterior and interior mounted lighting conduit, boxes, etc., including pull strings to the precast contractor for installation/embed into their precast panels.
65. Access panels shown and/or indicated on the drawings. This Contractor shall furnish AND install all access panels required for access to Bid Package #16 – Electrical scope items not shown on the drawings.

Work Excluded:

1. Testing.
2. Firestopping. Provided by Bid Package #10 – General Trades.

END OF BID PACKAGE