Bid Category 03-01 : Cast-in-Place Concrete (Building Concrete)

A. **Specification Sections**

03 3000	Cast-in-Place Concrete
03 3003	Cast-in Place Concrete Requirements for Floor Slabs
07 1113	Bituminous Damp proofing

B. GENERAL INCLUSIONS

1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS

1. All equipment, operators, hoisting, crane, concrete pump, etc. required for this scope of work.
2. Perform, furnish and installation of all specification sections above unless noted differently below
3. Furnish and install all concrete foundations, footing & step footings, slabs, thickened slabs, ramps, steps and landings, stoops, etc. as indicated in drawings and specs.
4. Furnish and install rigid insulation that butts up to concrete foundations, walls, ramps and stoops as indicated on S4.1.
5. Furnish and install vapor barrier as indicated in drawings and specs.
6. Install anchor bolts and structural embeds, athletic equipment embeds furnished by others.
7. Provided install of anchor bolt per detail 1/S6.1. Coordinate with Structural steel contractor for location of anchor bolt embeds. Archor bolt furnished by others
8. Provide grouting for base plates.
9. Furnish and install concrete formwork, concrete accessories, water stop as indicated in drawings and specs.
10. Furnish and install concrete reinforcement steel, including submission of engineered shop drawings.
11. Coordinate with MEP contractors for piping penetrations.
12. Furnish and install all bollard and bollard sleeves as indicated in drawings and specs.
13. Furnish and install depressed slab at pole vault box.
14. Furnish and install thickened edge at track to turf per detail7/A5.2.
15. Furnish and install concrete joints and associated joint fillers as indicated including sawcut, expansion, isolation, and preformed construction joints, including submission of expansion joint shop drawings.
16. Include necessary winter conditions, if applicable, for work included in this bid category to meet and maintain project schedule.
17. Inspect sub-grade and accept conditions prior to SOG. Provide fine grading as required.
18. Furnish and install concrete fill per detail 1/S4.2, 6/A6.1 & 9/A5.2 for areas surrounding “long jump sandpit” as indicated in drawings and specs. Note: multiple mobilization and coordination will be need to finalize this scope item.
19. Coordinate with Structural Steel embeds for volleyball sleeve as indicated in detail 6/S6.1.
20. Furnish and install concrete as depicted in detail 15/S4.1 & 2/S4.2 for equipment pad and overhang slab and footing as indicated in drawings and specs.
21. Furnish and install concrete as depicted in detail 11/S4.1 for Elevator Pit concrete as indicated in drawings and specs.
22. Furnish and install concrete as depicted in detail 4/S4.2 for sum pump pit concrete as indicated in drawings and specs.
23. Include in base bid for multiple mobilization for concrete slab work to adhere to project sequence. Coordinate with CM contractor.
24. Ensure all floor slabs are to include moisture “vapor reduction admixture” as called out in drawings and specs.
25. Include necessary winter conditions for work included in this bid category to meet and maintain project schedule.

D. EXCLUDED

1. Excavation & Backfill
2. Furnishing of anchor bolts
3. Granger hoisting/lifting. All hoisting is the contractor’s responsibility.

E. ALLOWANCES
   1. N/A

F. REQUESTED ALTERNATES
   1. N/A

END OF SECTION

Bid Category 04-01 : Masonry

A. **Specification Sections**

04 2000	Unit Masonry
07 1300	Sheet Waterproofing
07 2726	Fluid-Applied Membrane Air Barriers
07 9513	Expansion Joint Cover Assembly

B. GENERAL INCLUSIONS

1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS

1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Provide continuous coordination with interfacing trade subcontractor work or other contract categories as required to accomplish the work of this category.
3. All equipment, operators, hoisting, crane, etc. required for this scope of work.
4. Furnish and install all interior & exterior CMU masonry units with reinforcements as indicated in drawings and specs.
5. Furnish and install a complete building exterior brick veneer envelope as indicated in drawings and specs.
6. Exterior louver opening sizes need to be coordinated with Mechanical contractor.
7. Install all lintels set in masonry as indicated in drawings and specs. Lintels to be provided by Structural Steel contractor.
8. Furnish and install all insulation within masonry walls as indicated in drawings and specs.
9. Furnish and install all integral sheet metal flashing, flexible flashings, masonry accessories, joint sealant, etc. associated with this bid category.
10. Provide dedicated masonry dumpster for this scope of work.
11. Furnish and install reinforcing steel for grouted masonry, or other items in this bid category.
12. Furnish and install all vapor, air or weather barrier systems integral with masonry system.
13. Furnish and install all mortar/grout, joint reinforcement, embedded flashing, miscellaneous masonry accessories for a complete masonry system per drawings and specs.
14. Furnish and install all masonry wall cavity insulation, both spray and/or rigid where indicated.
15. Provide installation of embeds and bracing provided by others.
16. Provide installation of elevator hoist beam provided by Structural Steel contractor as depicted on detail 1/S1.4
17. Provide install HM frames, supplied by 06-01, to be set in masonry as indicated in drawings and specs.
18. Include necessary winter conditions for work included in this bid category to meet and maintain project schedule.

D. EXCLUDED

1. N/A

E. ALLOWANCES

1. N/A

F. REQUESTED ALTERNATES

1. N/A

END OF SECTION

Bid Category 06-01 : Carpentry & General Trades

A. **Specification Sections**

06 1000	Rough Carpentry
06 4023	Interior Architectural Woodwork
07 8400	Firestopping *(As pertains to this bid category)*
07 9200	Joint Sealant *(As pertains to this bid category)*
08 1113	Hollow Metal Doors & Frames
08 1416	Flush Wood Doors
08 3323	Overhead Coiling Doors
08 7100	Door Hardware *(As pertains to this bid category)*
10 1100	Visual Display Boards
10 1400	Signage
10 1419	Dimensional Signage
10 2113.17	Phenolic Toilet Compartments
10 2239	Folding Panel Partitions
10 2600	Wall and Door Protection
10 2800	Toilet, Bath, and Laundry Accessories
10 4400	Fire Protection Specialties
10 5126	Phenolic Lockers
12 3216	Manufactured Plastic Laminate-Clad Casework
12 3600	Countertops

B. GENERAL INCLUSIONS

1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS

1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install interior and exterior wood blocking and/or plywood for all items identified in drawings and specs.
3. Provide temporary site fire extinguishers per Front End Documents.
4. Furnish and install folding partition wall as identified in drawings and specs.
5. Furnish and install all casework w/ hardware, and solid surface countertops w/ backsplash as identified in drawings and specs. Coordinate all sink cut opening with Plumbing contractor.
6. Install any identified Owner provided, Contractor Installed items in the drawings and specs.
7. Furnish and install a complete door, frame and hardware package as indicated in drawings and specs.
8. Furnish and install toilet accessories as identified and drawings and specs.
9. Furnish and install all coiling counter doors, overhead coiling doors and overhead coiling grilles complete, including all anchors, and accessories.
10. Provide rated openings where openings are shown in rated construction on the code compliance plan whether indicated to be rated on the door and hardware schedules or not.
11. Furnish and install room signage.
12. Furnish and install all visual display units: whiteboards, markerboards, tackboards, etc. as indicated.
13. Furnish and install all toilet partitions, urinal screens, toilet accessories, automated external defibrillators, including installation of any items provided by the owner included in this bid category. Any additional ceiling support(s) required for overhead mounted toilet partitions is by this bid category as needed.
14. Furnish and install all fire extinguishers and fire extinguisher cabinets including all brackets and code required fire extinguisher signage. Coordinate and layout locations of recessed and semi recessed units with interfacing trade contractors.
15. Furnish and install all joint sealants both integral and to other adjacent building materials for complete system. Including but not limited to door frames, countertops, casework, etc.
16. Furnish and install all recreational equipment: divider curtains, batting cages, exterior ball containment netting, and wall padding as indicated on drawings for a complete system.

17. Installation of Recreational Equipment.
18. Furnish and install a complete millwork package including phenolic lockers and cubies as indicated in drawings and specs.
19. Furnish and install dimensional sign as depicted in detail 10/S6.1 with building lettering shown on A3.1.
20. Furnish and install 2x4 pressure treated nailor board for turf edge as depicted in detail 7/A5.2.
21. Furnish the following recreational equipment to be installed by other trades:
    a. 03-01 Concrete:
        I. Pole vault box
        II. Long jump pit and sand catcher
        III. Long jump-triple jump take off boards

D. EXCLUDED
1. Aluminum Storefront Doors and Windows
2. Glazing for HM Window & Doors

E. ALLOWANCES
1. Include in base bid an allowance of $20,000 for any temporary enclosures at openings and trip/fall edges to be used as directed by the Construction Manager. Allowance to be used on time-and-material basis.
2. Include in base bid an allowance of $20,000 for any temporary enclosures for winter conditions to be used as directed by the Construction Manager. Allowance to be used on time-and-material basis.
3. Include in base bid an allowance of $25,000 for any misc. labor to be used as directed by the Construction Manager. Allowance to be used on time-and-material basis.

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 08-01 : Aluminum Glass & Glazing

A. **Specification Sections**

07 8400	Firestopping *(As pertains to this bid category)*
07 9200	Joint Sealant *(As pertains to this bid category)*
08 1610	FRP-Faced Aluminum Doors
08 4313	Aluminum-Framed Storefronts
08 4500	Translucent Wall & Roof Assemblies
08 7100	Door Hardware *(As pertains to this bid category)*
08 8000	Glazing

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install all interior and exterior Glazing per plans and specs. Coordinate with Frame & Door supplier to verify glazing sizes. Glazing sizing to be verified in field.
3. Furnish and install all Aluminum Store front systems with integrated glazing as indicated in drawings and specs.
4. Furnish and install all aluminum doors, frames, and hardware including auto openers/operators complete.
5. Furnish and install all Translucent Wall Assemblies as indicated in drawings and specs. Coordinate with Structural Steel contractor for opening size dimensions and shapes.
6. Provide all joint sealants and flashing necessary for a complete system including joint sealants around perimeter of all openings provided under this scope of work.
7. Include in base bid for multiple mobilization for installation of aluminum storefront door system opening being used for site access. Coordinate with CM contractor.
8. Before beginning work, provide mock-ups and participate in pre-install meetings for all wall and flashing conditions for review and approval of Architect and CM. Provide all flashings integral with glazing installations to provide a weather tight assembly. Include installation of flashings required. Pay specific attention to end dams, and overlaps of flashing materials. Test all installations of wall flashings to ensure that they are water tight before glazing is installed on top of the flashing. Have this water test witnessed by the CM superintendent for all flashings. 100% of all openings are to be water tested by this trade in close coordination with CM and testing agent

D. EXCLUDED
1. N/A

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 09-01 : Drywall & Acoustical

A. **Specification Sections**

05 5400	Cold-Formed Metal Framing
07 8400	Firestopping *(As pertains to this bid category)*
07 9200	Joint Sealant *(As pertains to this bid category)*
09 2216	Non-Structural Metal Framing
09 2900	Gypsum Board Assemblies
09 5100	Acoustical Ceiling
10 0100	Misc. Specialties

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. All tracks to be clean and vacuumed prior to drywall installation.
3. Provide all new gypsum and acoustic ceiling systems complete as indicated in drawings and specs. Include all gyp board soffits and bulkheads as identified in drawings and specs
4. Provide all new metal stud and gyp. Board walls as indicated in drawings and specs. Coordinate location of wall section in classrooms with Tote storage vs. America space station.
5. Smoke Ratings and Firestopping as required for work of this bid category with proper UL assembly and identification.
6. Furnish and install all head-of-wall firestopping joint sealant identified in spec section 07 8446. Include all fire rated insulation as indicated in drawings and specs.
7. Abuse resistant gyp board to be installed in all locations identified in drawing and specs at 4’ AFF.
8. Furnish and install cement backer board in locations that hard tile is to be installed as indicated in drawings and specs.
9. Provide/turn-over ceiling tiles for MEP contractor cuts as indicated in drawings and specs.
10. Provide support framing and install of all access doors that are to be provided by 21-01, 22-01, 23-01, 26-01, 28-01 contractors. Coordinate with appropriate contractors for sizes and locations.
11. Furnish and install Fabric Banners (FB-1) and Graphic frame system, shown on 1/A7.1, as indicated in drawings and specs.
12. Provide structural support framing for the canopy and dimensional sign as depicted in detail 10/S6.1 with building lettering shown on A3.1.

D. EXCLUDED
1. N/A

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 09-02 : Resilient Flooring

A. **Specification Sections**

07 8400	Firestopping *(As pertains to this bid category)*
07 9200	Joint Sealant *(As pertains to this bid category)*
09 0561	Common Work Results for Flooring Preparation
09 6466	Wood Athletic Flooring
09 6500	Resilient Flooring
09 6513	Resilient Base & Accessories
09 6566	Resilient Athletic Flooring
09 6813	Tile Carpet

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install all resilient flooring as indicated in the drawings and specs. Following drawings for floor patterns and product direction.
3. Furnish and install all cove base as indicated in the drawings and specs.
4. Contractor of this category is responsible for preparing all substrates prior to installation per specifications and manufacturers requirements for products installed as part of this work category including but not limited to grinding, scraping, build-up for positive drainage and leveling per specifications.
5. Submittals to include seam layouts and grain direction.
6. Protect all floors (entire finish floor) immediately after installation with RAM board. Seal all edges and joints of each piece of floor protection with a material that will not cause floor damage (manufacturer recommended) to ensure debris does not get below cardboard. Ensure proper maintenance of floor protection to ensure complete coverage.
7. Perform a construction clean after installation of flooring as required by the manufacturer. Perform the final cleaning of flooring per manufacturer standards at the end of the project when directed by the Construction Manager.
8. Provide transitions between dissimilar materials provided as part of this work category and between materials of this work category and Tile Flooring, this includes build-up of floor surface to ADA acceptable slopes at transitions of various heights / thickness of floors. This also includes any and all flooring transition materials specified.
9. Floor prep required up to 1/4” in base bid in all locations.
10. Note all floor patterns and transition line cuts as indicated in drawings and specs.
11. Furnish and install all joint sealants both integral and to other adjacent building materials for a complete system as indicated on the drawings.
12. Provide all needed preparation of subfloor for all flooring installation.
13. Furnish and install all resilient athletic flooring as required for a complete system as indicated in the drawings and specs
14. Provide and monitor testing probes in slabs , if necessary, at a frequency as specified to ensure levels meet values recommended by specification or manufacturer (whichever is more stringent)

D. EXCLUDED
1. N/A

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 09-03 : Tile Flooring

A. **Specification Sections**

07 8400	Firestopping *(As pertains to this bid category)*
07 9200	Joint Sealant *(As pertains to this bid category)*
09 3000	Hard Tile

B. GENERAL INCLUSIONS

1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS

1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Provide all hard tile and tile base as indicated in drawings and specs. Hard tile colors and patterns are indicated in drawings and specs.
3. Contractor of this category is responsible for preparing all substrates prior to installation per specifications and manufacturers requirements for products installed as part of this work category including but not limited to grinding, scraping, build-up for positive drainage and leveling per specifications.
4. All joint sealants required as part of this work for a finished product of dissimilar materials to be included in base bid.
5. Protect all tile floors (entire finish floor) immediately after installation with ram board or cardboard alternate approved by manufacturer to not damage the tile surface. Seal all edges and joints of each piece of floor protection with a material that will not cause floor damage (manufacturer recommended) to ensure debris does not get below cardboard.
6. Perform a construction clean after installation of flooring as required by the manufacturer. Perform the final cleaning of flooring per manufacturer at the end of the project when directed by the Construction Manager.
7. Include any required mud beds per the plans and specifications.
8. Furnish and install Schluter strips at tile edge to dissimilar materials provided as part of this work category and between materials of this work category and Resilient Flooring, this includes build-up of floor surface to ADA acceptable slopes at transitions of various heights / thickness of floors. This also includes any and all flooring transition materials specified.
9. Provide any additional lighting as needed for any installation of wall/base tile as needed and indicated in drawings and specs.
10. Furnish and install all joint sealants both integral and to other adjacent building materials for a complete system as indicated on the drawings.

D. EXCLUDED

1. N/A

E. ALLOWANCES

1. N/A

F. REQUESTED ALTERNATES

1. N/A

END OF SECTION

Bid Category 09-04 : Painting & Wall Covering

A. **Specification Sections**

07 9200	Joint Sealant *(As pertains to this bid category)*
09 7200	Wall Covering
09 9123	Interior Painting

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSION
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Provide all needed preparations for all paint applications.
3. Furnish and install all paint on the PEMB, interior paint, exterior paint, painting of doors, frames. guardrails/handrails, exposed bollards, etc, paint colors, finishes, paint types, and necessary equipment to provide a complete finished painting project per the plans and specs.
4. Contractor shall apply prime coat and required finish coat(s) consecutively, prior to installation of finishing work. The contractor of this category will be responsible for all required touch-up work following installation of finishing work.
5. Prime paint all walls completely, including those receiving wall protection, casework and other equipment.
6. Furnish and install Wall Covering identified in each classroom as identified in drawings and specs.
7. Provide painting of all exposed piping and ductwork per specified requirements. This includes painting of any exposed spaces behind ceilings, inside diffusers, etc. In exposed ceiling areas, paint entire ceiling before MEP trades do their work, then repaint after all MEP work is complete, protecting and taping those MEP elements scheduled to remain with factory finish or another color.
8. Provide caulking of door frames to walls and floors.
9. Protect all adjacent pre-finished and finished surfaces from overspray and spatters by means of masking, tarping, etc. including but not limited to, flooring, ceilings, millwork, sprinkler heads, etc.
10. Include touchups throughout project after final paint and punch list.
11. Inspect and accept surfaces to receive paint prior to commencement of work.

D. EXCLUDED
1. N/A

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 11-01 : Equipment

A. **Specification Sections**
   11 6623 Gymnasium Equipment

B. GENERAL INCLUSIONS
   1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
   1. Perform, furnish and installation of all specification sections above unless noted differently below.
   2. Furnish and install all mounting and associated hardware for the following as indicated in drawings and specs:
      (1) Baseball/Softball (listed as Basketball Equipment in spec) – including motorized drop-down throwing and batting cages.
      (2) Wall Safety Pads – Wall padding at exposed columns, Wall padding on plywood frame, direct applied wall padding, door applied wall padding.
      (3) Divider Curtains – including both motorized and manual draw
      (4) Volleyball Equipment
      (5) Track and Field throwing cage
   3. Furnish and install long jump pit cover as indicated in drawings and specs.

D. EXCLUDED
   1. N/A

E. ALLOWANCES
   1. N/A

F. REQUESTED ALTERNATES
   1. N/A

END OF SECTION

Bid Category 14-01 : Conveying Equipment

A. **Specification Sections**
   14 2123.16 Machine Room Less Electric Traction Passenger Elevator

B. GENERAL INCLUSIONS
   1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
   1. Perform, furnish and installation of all specification sections above unless noted differently below.
   2. Provide submittals and any identified work by others.
   3. Provide all permits and inspections for this scope of work.
   4. Furnish all necessary pit and hoist way steel; coordinate installed with masonry trade.

D. EXCLUDED
   1. N/A

E. ALLOWANCES
   1. N/A

F. REQUESTED ALTERNATES
   1. N/A

END OF SECTION

Bid Category 21-01 : Fire Suppression

A. **Specification Sections**

08 3100	Access Doors & Panels *(As pertains to this bid category)*
Division 20	Common Mechanical Requirements *(As pertains to this bid category)*
21 1000	Fire Suppression System

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
1. Provide all permits and inspections for this scope of work.
2. Perform, furnish and installation of all specification sections above unless noted differently below.
3. Provide a complete and functional wet fire suppression system per NFPA 13.
4. Design, engineering, and installation of a complete system in alignment with the Design Intent outlined within plans and spec.
5. Furnish and install a complete fire protection system in alignment with Design Intent.
6. Furnish and provide complete engineered shop drawings and calculations for approval.
7. Furnish and install tamper flow switch for tie into fire alarm system.
8. Fire caulking/sealants of work associated with this bid category.
9. Include all required testing and permitting for the work of this bid category.
10. Furnish and Install PIV and necessary connections, coordinated with fire alarm contractor.
11. Furnish and Install fire department connection as required by code.
12. Coordinate with earthwork contractor and AHJ to flush fire protection main prior to connection of sprinkler system. Provide all labor and materials for this flush.
13. Provide any equipment pads required for work but not shown in drawings.
14. Provide all access panels required but not shown in drawings for install by 09-01 contractor.
15. Provide all trenching, excavation, backfill & compaction of new underground Fire Suppression line runs. Coordinate with Earthwork contractor for transporting soils. Earthwork contractor will be responsible for transporting spoils from “identified soil pile area” to the permanent stockpile area for all underground utility work from Plumbing, Fire Suppression and Electrical. All MEP are responsible for transporting soils from trenched areas to “identified soil pile area” outside of building footprint area.
16. Furnish and install all hangers, supports, anchors, racking, etc. for all work in this bid category.
17. Provide all fire suppression tie-ins.
    a. Underground utility piping to be brought within 5ft the building perimeter by excavation contractor. Fire Suppression contractor to attach to at that point.

D. EXCLUDED
1. N/A

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 22-01 : Plumbing

A. **Specification Sections**

08 3100	Access Doors & Panels *(As pertains to this bid category)*
Division 20	Common Mechanical Requirements *(As pertains to this bid category)*
Division 22	Plumbing

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
1. Provide all permits and inspections for this scope of work.
2. Perform, furnish and installation of all specification sections above unless noted differently below.
3. Include all plumbing equipment as scheduled and required for a complete system as part of this bid category.
4. All plumbing insulation of installed work as part of this bid category.
5. Contractor is responsible for all new core openings for penetration through walls or slabs to facilitate installation associated with this scope of work. All openings shall be cut to proper size to ensure penetration can be properly fire stopped. Any opening not cut to appropriate size shall be redone at the cost of this bid category subcontractor.
6. Include test and balance of systems installed as part of this bid category.
7. Furnish and install new electric water heater with expansion tank and recirculation pump per plans and specs.
8. Coordinate with Millwork contractor on sink sizes and location for proper coordination of sink cuts for drop in sinks.
9. Furnish any required access doors for installation by others. Coordinate with installing contractor for sizing and locations.
10. Provide all trenching, excavation, backfill & compaction of new underground Plumbing line runs. Coordinate with Earthwork contractor for transporting soils. Earthwork contractor will be responsible for transporting spoils from “identified soil pile area” to the permanent stockpile area for all underground utility work from Plumbing, Fire Suppression and Electrical. All MEP are responsible for transporting soils from trenched areas to “identified soil pile area” outside of building footprint area.
11. Provide all water main connections and domestic water tie-ins.
    a. Underground utility piping to be brought within 5ft the building perimeter by excavation contractor. Mechanical / Plumbing contractor to attach to at that point.
12. Furnish and install complete plumbing system for domestic, sanitary, vent, fixtures, etc.
13. Furnish and install complete all piping systems, including all supports, anchors, guides, etc.
14. Furnish and install all hangers, supports, anchors, racking, etc. for all work in this bid category.
15. Furnish and install trench drain as depicted in detail 5/S4.2.

D. EXCLUDED
1. N/A

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 23-01 : Mechanical and Controls

A. **Specification Sections**

08 3100	Access Doors & Panels *(As pertains to this bid category)*
08 9100	Louvers
Division 20	Common Mechanical Requirements *(As pertains to this bid category)*
Division 23	Heating, Ventilating and Air-Conditioning (HVAC)

B. GENERAL INCLUSIONS

1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS

1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Provide all permits and inspections for this scope of work.
3. Provide protection of all open-air outlets/inlets left open during the construction period. No open ducts during construction will be allowed.
4. Contractor is responsible for all new core openings for penetration through walls or slabs to facilitate installation associated with this scope of work. All openings shall be cut to proper size to ensure penetration can be properly fire stopped. Any opening not cut to appropriate size shall be redone at the cost of this bid category subcontractor.
5. Complete Testing and Balancing of systems related to this work scope per specifications.
6. All mechanical insulation of installed work as part of this bid category.
7. Firestopping as required for work of this bid category with proper UL assembly and identification.
8. Include coordination with roofing contractor prior to any penetrations in roof. Roof curbs and any other penetrations require a pre-installation meeting.
9. Protection of the roof required when installing pipe and stands. All roof piping supports to be provided by this bid category. Coordinate with roofing contractor for any required roof pads or flashings needed for this support system.
10. Furnish and install complete HVAC system including but not limited to all, ACU/ACCUs, ERUs, TU's, chillers, ductwork, fabric duct, piping, insulation, etc.
11. Furnish and install complete control systems as indicated in drawings and specs. Include integration into existing system and graphics as necessary.
12. Furnish and install louvers as identified on drawing and specs. Louver size and finish identified in drawings and specs. Coordinate with Mason for opening size.
13. Furnish any required access doors for installation by others. Coordinate with installing contractor for sizing and locations.
14. Furnish and install all hangers, supports, anchors, racking, etc. for all work in this bid category.
15. Furnish all variable frequency drives and/or motor starters for all equipment furnished (final mounting, termination, and energizing by others.
16. Furnish and install all final HVAC diffusers.
17. Furnish and install all required fire, smoke, and/or fire smoke dampers as indicated and in compliance with the code plan to meet all local and state jurisdictional requirements.
18. Restore grade including aggregate drainage fill as required. Import suitable backfill material as required for your scope of work. Remove excess material from site.
19. Provide equipment pads required but not shown on drawings.
20. Furnish and install equipment screen wall with all associated supports and bracing per details S1.2A, 3/A6.1, 4/A6.1, 5/A6.1 & A3.1. Exclude structural framing; to be furnished and installed by Structural Steel contractor. Layout by this trade for screen location.

D. EXCLUDED

1. N/A

E. ALLOWANCES

1. N/A

F. REQUESTED ALTERNATES

1. N/A

END OF SECTION

Bid Category 26-01 : Electrical

A. **Specification Sections**

08 3100	Access Doors & Panels *(As pertains to this bid category)*
Division 26	Electrical
28 3100	Fire Alarm

B. GENERAL INCLUSIONS

1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS

1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Provide all permits and inspections for this scope of work.
3. Provide continuous coordination with interfacing trade subcontractor work or other contract categories as required to accomplish the work of this category.
4. Provide all trenching, excavation, backfill & compaction of new underground Electrical line runs. Coordinate with Earthwork contractor for transporting soils. Earthwork contractor will be responsible for transporting spoils from “identified soil pile area” to the permanent stockpile area for all underground utility work from Plumbing, Fire Suppression and Electrical. All MEP are responsible for transporting soils from trenched areas to “identified soil pile area” outside of building footprint area.
5. Installation and removal of all temporary power and lighting is the responsibility of this bid category. Include Maintenance during construction to meet MIOSHA standards and removal at completion of the project at a time directed by the CM.
6. IF NO TEMP POWER CAPACITY - Coordinate with utility provider and CM for installation of new service as quickly as possible. Provide all temporary power after service is installed.
7. Provide and/or identify temporary power outlets to be used during construction.
8. Perform a shutdown of the Fire alarm system as required for system additions and reworking.
9. Provide power to smoke/fire dampers provided by others, along with tie-in of fire alarm system to all dampers, detectors, etc.
10. Contractor is responsible for all new core openings for penetrations through walls or slabs to facilitate installation associated with this scope of work. All openings shall be cut to proper size to ensure penetration can be properly fire stopped with proper UL assembly. Any opening not cut to appropriate size shall be redone at the cost of this bid category subcontractor.
11. All roof penetrations to utilize existing or new roof curbs/penetration locations. Coordination with roofing contractor and work category power is being supplied for required.
12. Furnish and install complete exterior lighting system including bases, poles, etc at both New Field house and existing Twin Turf field shown on E0.3.
13. Furnish and install complete interior lighting system including controls as outlined.
14. Furnish and install new 15KV Primary Switch located at main high school campus as shown in drawings and specs. Coordinate any shutdown for tie-ins with project team before scheduling work.
15. Furnish and install all distribution electrical system complete
16. Furnish and install all power required per key note #17 on E3.2A. Coordinate with CM Team and Turf contractor for termination and power plug detail.
17. Install, terminate, connect, energize all equipment provided by others, including but not limited too variable frequency drives, chillers, pumps, control panels, ERUs, etc., and owner provided equipment.
18. Include disconnects for any equipment that is indicated in drawings and specs. Provide all disconnects for equipment not specifically provided by others.
19. Provide final power connection for all equipment, devices, fixtures, etc.
20. Include housekeeping pads for the equipment supplied with this bid category.
21. Fire caulking and/or joint sealants for the work of this bid category with proper UL assembly and identification.
22. Include installation of a new Fire Alarm system; cross-tied onto the existing Fire Alarm system.
23. Furnish any required access doors for installation by others. Coordinate with installing contractor for sizing and locations.

24. Furnish and install all raceways, hangers, supports, anchors, racking, etc. for all work in this bid category
25. Coordinate electrical outlets in millwork, casework, etc with appropriate contractors to assure proper placement.
26. Provide install of LCD backbox provided by Division 28-01 contractor. Coordination mounting height and location with contractor.
27. Install any identified Owner provided, Contractor Installed items in the drawings and specs.
28. Furnish and install all raceways required for the 28-01 contractors as shown on the electrical and telecom drawings.
29. Furnish and install conduit systems including junction box systems and specialty back boxes, with pull ropes and/or cable trays for the 28-01contractor. Coordinate extensively with these trades such that routing and terminal locations are agreed to by all parties and approved by the architect/engineer and CM. Including specified hangers and miscellaneous steel and framing to support junction boxes, equipment, and conduit securely.
30. Provide install of recessed electrical box in turf area with Earthwork and Turf contractor for proper termination heights.
31. Furnish and install heat trace line as depicted on drawing M2.1B.

D. EXCLUDED
   1. N/A

E. ALLOWANCES
   1. N/A

F. REQUESTED ALTERNATES
   1. N/A

END OF SECTION

Bid Category 28-01 : Electrical Safety & Security

A. **Specification Sections**

Division 27	Communications	28 5401	Flat Panel Video Displays
28 1000	Technology Overview	28 5450	Audio Equipment
28 1150	Communications Grounding	28 5453	Audio Speakers
28 1500	Fiber Cabling	28 5470	AV Cabling
28 1600	CAT-6 Cabling	28 7200	Technology Submittals
28 1705	Clock System IP	28 7600	Technology Labeling
28 3500	Access Controls	28 7700	Technology Testing
28 3510	Intrusion Detection	28 7750	Technology Training
28 3600	Security Recording	28 7800	Technology Warranty
28 3700	Security Cameras		

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Provide all permits and inspections for this scope of work.
3. Provide continuous coordination with interfacing trade subcontractor work or other contract categories as required to accomplish the work of this category.
4. Furnish and install the cabling, racks, patch panels, fiber optics, drops, parts and pieces including jacks and J-hooks, cable termination, testing, documentation as Coordinate extensively with the electrical contractor for conduit systems including junction box systems and specialty back boxes such that routing and terminal locations are agreed to by all parties and approved by the architect/engineer and CM.
5. Furnish and install all cabling and equipment/devices batting cage touch panels & control centers as indicated in TC series of drawings and specs.
6. Provide LCD backboxes to electrical contractor for installation. Coordinate height and mounting requirements.
7. Coordinate lockdown button, release button, and card reader locations with CM and owner prior to final installation.
8. Provide raceways in door frames for door hardware. Coordinate with 06-01 contractor to install prior to grouting of frames.
9. Furnish any required access doors for installation by others. Coordinate with installing contractor for sizing and locations.
10. Provide all licenses and warranties per the above specification sections.
11. Fire caulking and/or joint sealants for the work of this bid category with proper UL assembly and identification.

D. EXCLUDED
1. Door hardware by others

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 31-01 : Earthwork and Site Utilities

A. **Specification Sections**
   Specs not included. TBD

B. GENERAL INCLUSIONS
   1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
   1. Scope for this bid category to be issued in future Addendum/Bulletin.

D. EXCLUDED
   1. N/A

E. ALLOWANCES
   1. N/A

F. REQUESTED ALTERNATES
   1. N/A

END OF SECTION

Bid Category 32-01 : Site Concrete

A. **Specification Sections**
   Specs not included. TBD

B. GENERAL INCLUSIONS
   1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

G. SPECIFIC INCLUSIONS
   1. Scope for this bid category to be issued in future Addendum/Bulletin.

C. EXCLUDED
   1. Exterior concrete foundations, stoops, stairs and ramps.

D. ALLOWANCES
   1. N/A

E. REQUESTED ALTERNATES
   1. N/A

END OF SECTION

Bid Category 32-02 : Site Asphalt

A. **Specification Sections**
Specs not included. TBD

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

H. SPECIFIC INCLUSIONS
1. Scope for this bid category to be issued in future Addendum/Bulletin.

C. EXCLUDED
1. N/A

D. ALLOWANCES
1. N/A

E. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 32-03 : Landscaping

A. **Specification Sections**
   Specs not included. TBD

B. CLARIFICATNS
   1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

I. SPECIFIC INCLUSIONS
   1. Scope for this bid category to be issued in future Addendum/Bulletin.

C. EXCLUDED
   1. N/A

D. ALLOWANCES
   1. N/A

E. REQUESTED ALTERNATES
   1. N/A

END OF SECTION

Bid Category 32-04 : Artificial Turf

A. **Specification Sections**
   32 1723.28 Artificial Turf

B. GENERAL INCLUSIONS
   1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.

C. SPECIFIC INCLUSIONS
   1. Perform, furnish and install all specification sections above unless noted differently below
   2. Inspect sub-grade and accept conditions prior to Artificial Turf installation. Report any issues or concerns to CM team and responsible contractor for major correction. This contractor will be responsible for all final grading needed after this acceptance. Provide all needed final preparation of grade/subfloor for all flooring installation.
   3. Coordinate all embeds provided by others.
   4. Provide, maintain, and remove all temporary flooring protections at the direction of the Construction Manager.
   5. Furnish and install all joint sealants both integral and to other adjacent building materials for a complete system as indicated on the drawings.
   6. Provide shop drawings indicating layout referenced of joints and transitions.
   7. Provide shop drawings for proposed stripping lines as indicated in drawings and specs.
   8. Furnish turf box for recessed electrical box in turf area per sheet E3.1A & E3.1B. Install turf onto electrical box per the manufacturer recommendation of installation.

D. EXCLUDED
   1. N/A

E. ALLOWANCES
   1. N/A

F. REQUESTED ALTERNATES
   1. N/A

END OF SECTION