

SECTION 00 24 00
SCOPES OF BIDS

PART I – GENERAL

1.01 HSE New Elementary School #13

HSE is undertaking a project to build a new Elementary School #13, (Southeastern Elementary) the address is 12401 Cyntheane Road, Fishers In. 46037.

This Bid contains work involved in the following: Bid Package 03

Bid Package #03, Bid Item #07: Site Fencing Work:

Bid Package #03, Bid Item #08: Masonry Work:

Bid Package #03, Bid Item #09: General Trades Work:

Bid Package #03, Bid Item #10: Roofing Work:

Bid Package #03, Bid Item #11: Aluminum Windows and Doors and Folding Glass Panel System Work:

Bid Package #03, Bid Item #12, Metal Stud, Drywall, Insulation, Acoustical Ceilings, Wood Grille Ceilings, and Sound Panels Work:

Bid Package #03, Bid Item #13: Painting and Wallcovering Work:

Bid Package #03, Bid Item #14: Ceramic Tile Work Work:

Bid Package #03, Bid Item #15: Carpet, LVT and VCT Work:

Bid Package #03, Bid Item #16: Epoxy Resinous Floor Work:

Bid Package #03, Bid Item #17: Fluid Applied Athletic Flooring Work:

Bid Package #03, Bid Item #18: Operable Panel Partition Work:

Bid Package #03, Bid Item #19: Food Service Equipment Work:

Bid Package #03, Bid Item #20: Manufactured Casework Work:

Bid Package #03, Bid Item #21: Gymnasium Equipment Work:

Bid Package #03, Bid Item #22: Telescoping Stands Bleachers Work:

Bid Package #03, Bid Item #23: Elevator Work:

Bid Package #03, Bid Item #24, Fire Protection Work:

Bid Package #03, Bid Item #25, Plumbing, Mechanical, HVAC Ductwork and Temperature Controls Work:

Bid Package #03, Bid Item #26, Electrical, Fire Alarm, AV and Technology Work:

Note: A “Future” Bid Package #04, is planned:

*It is planned to include the Outdoor Playground Equipment

*It is planned to include the Signage and Plaque.

Please note the following Bid Package 01 Bid Items 01 and 02 has already bid and has already been awarded:

*Bid Package #01, Bid Item #01 – Earthwork and Site Utilities
(with the exception of the Sanitary Sewer work)

*Bid Package #01, Bid Item #02 – Sanitary Sewer Work

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Please note the following Bid Package 02 Bid Items 03, 04, 05, and 06 has already bid and already been awarded:

- *Bid Package #02, Bid Item #03: Concrete Foundations, Slabs and Sidewalk Work:
- *Bid Package #02, Bid Item #04 Structural and Misc. Steel Work:
- *Bid Package #02, Bid Item #05 Asphalt Paving and Concrete Curbs Work:
- *Bid Package #02, Bid Item #06: Landscape and Seeding Work:

Their respective written scopes of work are included here for your use and reference and are shaded to indicate they have already bid and been awarded.

1.02 Subcontracts

All Work shall be awarded and performed under Separate Subcontracts, in accordance with the Subcontract Documents, and under the direction of the Construction Manager contractor (CMc)

1.03 Related Requirements to All Subcontracts

1. All sections in Division 0 cover bidding and subcontract requirements.
2. All sections in Division 1 cover administrative and work related general requirements.
3. Please note the Markup for self-performed changes will be at cost plus 10%, and the markup for your subcontractor or vendors and material only items will be at cost plus 5%. Provide a detailed breakdown for all changes, including labor hours, labor rates, material take off, and backup of all quotes and estimates
4. All Pay Applications are required to submit the G702, G703, and the Monthly Hagerman Waiver. Fill out all of your sub and vendor names, work type and values. Also provide waivers for all of your subs and vendors.
5. 10% Retainage to be held until the project is Substantially Completed and the Certificate of Occupancy has been procured.
6. In addition to the waiver submitted with your payment application, each subcontractor and purchase order vendor will be required to fill out and sign and return the Hagerman accounting waiver. "Conditional" and "Unconditional" attached
7. Includes adherence to the Master Bid Project Schedule is required see schedule section. The Project is planned to be awarded on 3-14-2018. The Project Substantial Completion Date is May 1, 2019. Also, all any and all punchlist items must be 100% completed by June 1, 2019. Any work activity, including any MEP Commission, and any type of Puchlist or Non Completed item not done after June 1, 2019 shall incur a Liquidated Damage Penalty in the amount \$500.00 per Day from June 2, to June 28, 2019. Any work item or listed item of any type not completed by June 29, 2019 shall

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incur a Liquidated Damage Penalty in the amount of \$2,000 per day. All Subcontractors and Vendors work will be tracked and backcharged said costs as may apply. Please only bid this project if you have enough manpower, tools, equipment, material procurement and supervision to manage and run this project to maintain the project schedule. We need the entire team of subs and vendors to be strong and work together to achieve the project goals and deadlines of quality work, on time, under budget, and safe.

8. For Insurance purposes, name Hagerman Inc as the Certificate Holder and name: Hamilton Southeastern Schools, CSO Architects, Reitano Design Group, Heapy Engineering, and AF Engineering, and Context Design as Additional Insured
9. Notice to Proceed Date for this work is planned for 03-14-2018 in the evening.
10. Substantial Completion Dates for your work: Refer to the Project Schedule. The entire new school project must be completed by: 05-01-2019. So the work in this Bid Package #03 must stay on schedule in order to allow the entire project to finish on time.
11. See the attached drawing log, "bid set" dated: 1-19-2018
12. See the attached specification log, "bid set" dated: 1-19-2018
13. Each Subcontractor and Vendor is required to keep an "As Built" set of drawings and specifications on a daily basis throughout the project. Submit one set of physical paper copy red lined as built and one electronic copy to Hagerman at the end of the project as part of close out.
14. Each Subcontractor and Vendor is required to submit three (3) Operation and Maintenance Manuals, and one (1) Set Electrical at the end of the project. This should include copies of all approved submittals.
15. Each Subcontractor and Vendor is required to submit one Warranty Letter at the end of the project as part of close out.
16. Each subcontractor and vendor is required to submit all extra parts, attic stock materials, etc, per the plans and spec as part of close out.
17. Each subcontractor and vendor is required to submit a copy of all test reports in their respective O and M Manuals.
18. Each subcontractor and vendor is required to provide Owner training as needed for anything needed.
19. Each subcontractor and vendor is required to provide all maintenance, cleaning, care, instructions in the O and M Manuals.
20. Note: Material Testing of the Soil, Concrete, Asphalt, Steel and Masonry is by the Owner.
21. Safety: 100% tie off over 6'. 100% hard hat, hi vis, work gloves PPE, safety glasses, etc, per Hagerman Safety Program.

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22. Make formal submittals for all materials for the project including samples and mockups as called for in the specifications or drawings
23. Provide daily cleanup of the work areas and site
24. This project is sales tax exempt: See copy in the project manual.
25. Please call the Hagerman Supt (24) hours in advance of any delivery to the jobsite.
26. Although Specifications are allocated to the respective "subcontracts", it is the intention of the Construction Manager that each Subcontractor read and be familiar with all Specification Sections and plans assigned to the other Subcontractors and be responsible for any related work called for in non-assigned Specification Sections.
27. A copy of the Hagerman Inc. standard subcontract and/ or purchase order will be issued and executed before start of work. Each subcontractor will be required to sign the Hagerman standard subcontract agreement.
28. A copy of the Hagerman standard Insurance limits are attached for your reference.
29. Each Subcontract shall be required to sign and adhere to the Hagerman Safety Program and all IOSHA/OSHA regulations.
30. Each Subcontractor employee shall attend the Construction Manager Safety Orientation Program. The Construction Manager Safety Orientation Program must be completed before any worker can work on site. This program will be held on site in the Hagerman, Inc. field office.
31. This project is State of Indiana Sales Tax Exempt. Do not include sales tax with your bid. The Owner will provide a sales tax exempt number and form.
32. Each Subcontract includes all Work, including coordination with related work performed under other subcontracts, so as to result in a functional system or product. Note to all bidders: All other Specification Sections apply as required for coordination of these scopes of work to every bid item.
33. Each Subcontractor will perform all Work in coordination with other trades and the Construction Manager. Each Subcontractor must allow access for other Subcontractors to complete their Work. Each Subcontractor is responsible to coordinate rough-ins to accommodate finished products.
34. Each Subcontractor shall provide "daily" clean-up of his work area, and the site, and organize all materials, tools, gangboxes, equipment, etc. This will include a broom cleaning of the work area and putting all trash and waste into the project specific dumpster labeled "General Debris". This will include picking up and putting all lunch trash and break trash into the dumpster daily. Empty all respective trash cans daily.
35. Each Subcontractor shall provide all safety devices/equipment for all items associated with his scope of work to perform the project safety.
36. Each Subcontractor shall have its company safety director/officer conduct an on-site safety review and submit a written report signed and dated to the Construction

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Manager once a month. Prior to the start of work and mobilization, each subcontractor shall submit their PSSP (Project Specific Safety Plan) to the Construction Manager's Superintendent.

37. Each Subcontractor must coordinate the OFOI an OFCI equipment and connections as relates to your scope of work bid item. Perform the work as outlined in your scope of work and as noted on the drawings and specs. Refer to A900 and the specs.
38. All Subcontractors shall provide means and methods to protect the existing conditions and associated surroundings and grounds.
39. All Subcontractors are to provide protection of work area at the end of each workday and as work progresses so as not to expose the public, staff, and potential visitors to unsafe conditions.
40. Scope of Work: The detailed notes provided for each Bid Item are provided for clarification purposes and **do not** represent a complete listing of the Scope of Work. Bidders are responsible for work assigned in the specification sections, drawings and contract/subcontract documents. Each Bidder shall review and coordinate with the respective "other" design discipline drawings.
41. Functional System Requirement: Each subcontract includes all work, including coordination with related work performed under other subcontracts, so as to result in a functional system or product. All other specification sections apply as required for coordination of these scopes of work to every Bid Item.
42. Coordinate with Others: Each subcontractor will perform all work in coordination with the other subcontractors and the Contractor. Each subcontractor must allow access for the other subcontractors to complete their Work.
43. Protection of Existing Items: All subcontractors shall provide means and methods to protect the new HSE Elementary School #13, including City, and State roads/highways. Also, all subcontractors shall protect the temporary drives, lots, and lay-down areas during construction of this project.
44. Inspections: Each Bid Item subcontractor shall schedule all system inspections required by the local, county, State, or Federal authorities for the work included in their respective Bid Items. All Bid Item subcontractors are responsible to schedule their respective inspections so as not to delay the project schedule.
45. Each Subcontractor shall include State and Local Permits as may apply to their work.
46. Warranties: Each Bid Item subcontractor shall provide warranties as indicated in their respective specification sections included in their scope of work. These warranties shall start on the day of SUBSTANTIAL COMPLETION and NOT the day the equipment/work was shipped, completed, started, or any other day (even if the specification states another day). Each Bid Item subcontractor shall include any extra costs in the base bid to extend the manufacturer's warranty if the manufacturer's standard warranty doesn't start on the date of substantial completion.

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47. Bid Item #08, Roofer will need to include the Roofing Warranty.
48. Each Bid Item subcontractor shall provide a complete turn-over of the specified equipment to the Owner. Turn-over procedures shall include the completion of the Incoming Inventory Checklist for each piece of equipment installed. Reference specification section 01 77 00 – Contract Closeout
49. Hoisting and Scaffolding and Manlifts: Each Subcontractor shall furnish, install, maintain, and remove all manlifts, scissor lifts, boom lifts, hoisting and scaffolding systems as required to complete the work included in their scope of work.
50. Repair Existing Work: Subcontractors are responsible to repair/replace any existing previously installed material that is damaged by the installation of their scope of work. The replacement/repair must be installed per the contract documents or shall match existing adjacent systems.
51. Drawing General Notes: All subcontractors shall review and incorporate work included in the General Notes on each drawing sheet as they pertain to their scope of work.
52. Owner Training: All subcontractors shall coordinate and schedule Owner training of equipment per the contract/subcontract documents. Reference 01 77 00 Demonstration and Training for specific requirements that are to be included within each Subcontractor's scope of work.
53. Work Assignment Duplication: When a duplication of material or equipment occurs in the contract drawings, specifications or this Scopes of Bids by assignment of work to separate subcontracts, each subcontractor shall be deemed to have bid on the basis of each furnishing such material or equipment. The Construction Manager will decide which Bid Item Contractor(s) shall furnish the item(s) and which contract amount shall be adjusted for not incorporating such material or equipment into the project.
54. Project Schedule: Bidders are to refer to Section 00 31 13 – Preliminary Construction Schedule to understand the timeline of this project. Subcontractors shall provide sufficient manpower/crews and equipment to properly maintain the project schedule. Subcontractors will also include in their bid any overtime, over and above the standard forty (40) hour week, to accurately maintain the project schedule. The project must stay on schedule and be completed on time so the Owner can occupy the building. No exception.
55. Hoisting and Rigging: Each subcontractor shall provide all hoisting, rigging, hauling, forklifts, ladders, scaffolding, cranes, man lifts, etc. to gain access to and install its work, unload materials, handle materials on the site, etc.
56. Traffic Control: All subcontractors shall provide all temporary traffic controls, street barricades, signs, etc. that may be required to perform their scope of work. All subcontractors shall maintain these controls during the project and remove promptly as directed by contractor.

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57. Construction Limits: Subcontractors shall confine the operations to areas within the contract limits indicated unless otherwise approved by the Owner.
58. Keep Roads and Driveways Clear: Keep driveways and entrances serving the premises clear and available to the Owner at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
59. Delivery Coordination: Scheduling and delivery of all materials must be coordinated and approved by the contractor in advance.
60. Note: The term “provide” shall mean, furnish and install.
61. Sealants: Joint sealants and caulking are assigned to each subcontractor as applicable to the subcontractor’s work. Further definition is found in each Scope of Work. In general, each subcontractor is responsible for sealant and caulking as required for components which that subcontractor is responsible for providing. When sealant is required between components of different subcontractor’s responsibility, and is not further defined elsewhere, then the subcontractor installing the “last” component in a generally accepted construction sequence is responsible for caulking the joint created with the component installed “first”. All sealants and caulking shall conform to project specifications.
62. Penetrations and Sleeves: The subcontractor requiring the sleeve shall install the sleeve and the items penetrating the sleeve, firestop, Acoustical Sealant, or Joint Sealant from the sleeve to the item installed in the sleeve. Any penetrations that are not sleeved, prior to drywall/ceiling installation, shall be the total responsibility of the subcontractor requiring the sleeve. This includes ALL Firestopping, Acoustical Sealant, or Joint Sealant from the wall to the sleeve and the sleeve to the item in the sleeve. See scope of work below for how this work has been assigned.
63. Firestopping: All Firestopping and Acoustical Sealants will be provided by the Subcontractor who is installing the penetration. All firestopping shall be installed per project specifications. Firestopping and Acoustical Sealants shall be installed on BOTH sides of the wall that is penetrated; even though the UL rating doesn’t require both sides to be firestopped. See scope of work below for how this work has been assigned.
64. All Contractors and Subcontractors shall read the Alt and Witzig subsurface investigation and geotechnical report dated October 2, 2017 for this project prior to bidding.
65. All Contractors and Subcontractors shall make a site visit and walk the site before bidding.
66. All Subcontractors to review and include the General Notes as it pertains to their scope of work in their respective bids.
67. All Subcontractors are responsible to coordinate and schedule pre-installation

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conferences with the appropriate parties as indicated in the specifications or as directed by the Architect or Construction Manager prior to proceeding with the Work.

68. All Subcontractors to coordinate and schedule Owner training of equipment per the contract documents. At time of training, (1) electronic copy in CD form must be turned over to the Owner and signed receipt from Hagerman, Inc.
69. All Subcontractors shall provide sufficient manpower/crews and equipment to properly maintain the project schedule. Subcontractors need to include all overtime in their base bid to meet the project schedule. The project must stay on schedule and be completed on time so the Owner can move in, occupy, and have school.
70. This project schedule is very aggressive; subcontractors bidding on this work need to understand this up front and must procure materials in a timely fashion, coordinate with other trades, and provide sufficient manpower to work in multiple areas and multiple tasks at the same time in order to meet the project schedule. We do not want to hear I don't have enough manpower to perform this work or the project schedule was unrealistic. If you need to work two shifts or weekends to get your work done plan to do so as part of your bid.
71. It is to be noted that detailed notes provided for each Bid Item are provided for clarification purposes and do not represent a complete listing of scope of work. Bidders are responsible for work assigned in the Specification Sections, Plans and Contract Documents. Each Bidder shall review, include and coordinate with the respective "other" design discipline drawings.
72. There is no wage scale requirement for this project.
73. Bidders are to refer to Section 00 31 13 – Schedule and the Plans to understand the nature of this project.
74. All Subcontractors shall provide all engineering layout and survey work as required to furnish and install all items in their scopes of work. Provide and maintain control points and lines on the site.
75. Jobsite space is at a premium. Therefore, all bidders shall bid the project with the understanding they need to plan for reasonably just in time material deliveries as there will be limited lay down areas on site. All subcontractors will need to share these laydown area spaces. All material deliveries should be sequenced and delivered so that the materials can be immediately unloaded from the trucks/trailers and set into place at the jobsite. All deliveries will need to be carefully coordinated and scheduled with the Construction Manager.
76. No subcontractor "worker" parking will be available on-site. Workers can park across the street in designated areas of the City Park of Fishers and clean up daily.
77. Each successful bidder will be required to submit a detailed schedule for this scope of work within ten (20) days of award of the bid. This information will be incorporated into the Master Project Schedule. Bi Weekly schedule meetings will be held and all

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subs and vendors will be required to attend to make sure we achieve the project schedule.

78. Subcontractors are responsible for any dewatering required for their scope of work.
79. Subcontractors are responsible to repair/replace any soil erosion measures that have been disturbed by their scope of work.
80. Subcontractors are responsible for any and all street cleaning when they make a mess.
81. Subcontractors are responsible for scope of work addressed in the Hagerman, Inc. Subcontractor Safety Compliance Program.
82. Subcontractors shall confine the operations to areas within the Contract Limits indicated. Portions of the site beyond areas in which construction operations are indicated are not to be disturbed.
83. All cleaning of installed work is to be under the direction of the Construction Manager. Any unacceptable cleaning, not done under the Construction Manager's direction, will be redone at the Subcontractor's expense. Subcontractors are responsible to clean all finished products. This includes removing all labels, etc.
84. Time is of the essence in the execution of the work of this Agreement. Therefore, sufficient labor and materials must be provided at all times to meet Hagerman, Inc. Job Progress Schedule. Each Subcontractor shall take whatever steps necessary, including additional manpower, equipment, overtime, shifts, etc. at its sole cost and expense, to perform its work in a time frame and sequence to meet the Schedule.
85. Please note the Hagerman Contract with the Owner includes Liquidated Damages. Therefore these "LD" costs if required, will be passed on to each Subcontractor that is responsible for any delay to cover the LD costs in the form of a deductive penalty change order.
86. Please note, all subcontractors must prepare and submit the subcontractor pre-qualification paperwork to Hagerman Inc prior to submitting your bid.
87. Please note this is a "No Lien" Public Project per the terms of the Owner Contract with Hagerman. This in turn will be passed down to all subcontractors, suppliers and vendors.
88. All subcontractors shall indemnify and hold harmless the Owner for this project.
89. All subcontractors shall provide E-Verify and shall enroll and provide eligibility status of employers. Background checks for all workers will be required for this project and are the responsibility of the Subcontract and or Vendor to procure and provide.
90. All Steel products must be made in the United States.

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PART II – SCOPE OF WORK:

BID PACKAGE #03 - BID ITEM #07: SITE FENCING WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #07, Site Fencing, shall furnish and install the site fencing work shown on the “L” drawings. This includes the six (6”) foot fence and the two eight foot gates that are located around the retention pond. Refer to drawing L103 and L104, Material Legend F1.1 and F1.6.
2. Bid Item #07, shall provide the site fencing per specification section 32 31 13 Standard Fences and Gates. Base bid shall be black vinyl coated fence and gates.
3. Provide an alternate price to provide standard galvanized fence and gates instead of the black vinyl coated around the detention pond area.
4. Bid Item #07, Site Fencing, shall furnish and install the ornamental site fencing and gates that makeup the Outdoor Learning Studios. This includes the outside of Classrooms C106 and C108, C112 and C116, D114 and D1108, D122 and D124. For a total of four sections of ornamental four feet tall fence with two gates each. Refer to drawing L101 and L102, Material Legend F1.3 and F1.4.
5. Bid Item #07, shall provide the ornamental fencing per specification section 32 31 19 Ornamental Fences and Gates. Base bid shall be black vinyl coated fence and gates.
6. Please note the playground area has not been finalized yet, therefore the Material Legend Item F1.2 and F1.5 is not to be included in this base bid price at this time.

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7. Bid Item #07, Site Fencing shall include calling in for public locates, shall include private locates and shall include all excavation, drilling, concrete work, etc to furnish and install the fencing and gate work complete.
8. Bid Item #07, Site Fencing Contractor shall be responsible to furnish and install the work per Keyed Plan Notes 23 on A201B and the like drawings. The posts and gates at the Mechanical Yard. Also refer to 2/A304 and Keyed elevation note 14 on A304. And 3/A301.
9. Bid Item #07, Fence and Gate Contractor shall include an allowance in the amount of \$500.00 in their bid for the procore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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|---------|-----------------------|
| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 03 CONCRETE

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|---------|--|
| Section | 033001 – Site Cast In Place Concrete (As applies to this scope of work) |
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DIVISION 32 FENCE WORK

| | |
|---------|---------------------------------------|
| Section | 323113 – Standard Fences and Gates |
| Section | 323119 – Ornamental Fences and Gates. |

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BID PACKAGE #03 - BID ITEM #08: MASONRY WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #08 Masonry Contractor shall furnish and install the Unit Masonry Work Per Section 042000 and the Drawings.
2. Bid Item #08, Masonry Contractor shall furnish and install all rebar for the masonry walls and shall provide a rebar shop drawing.
3. Bid Item #08, Masonry Contractor shall provide all scaffolding, manlifts, boom lifts, scissor lifts, ladders, and forklifts to perform this work.
4. Bid Item #08 Masonry Contractor shall store materials in designated areas on site, the site laydown areas will be limited so plan material deliveries accordingly.
5. Bid Item #08 Masonry Contractor shall cut all masonry work with a wet blade or provide approved filter systems on saws.
6. Bid Item #08, Masonry Contractor shall provide your own dumpsters and put all of your trash and debris into your dumpsters.
7. Bid Item #08, Masonry Contractor shall furnish and install all winter temporary enclosures and heating units, including the fuel for the heating units, for the masonry work.
8. Bid Item #08, Masonry Contractor shall furnish and install the masonry cavity wall extruded polystyrene board insulation per 072100, 2.02, B.
9. Note: Bid Item #12, Drywall Contractor shall furnish and install the Thermal Insulation per Section 072100 and the drawings as follows: Bid Item #12 shall furnish and install the foam plastic board insulation everywhere with the exception that Bid Item #03 Concrete will furnish and install the foam plastic board insulation at the below grade

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- foundations per 072100,2.02, A, and with the exception that Bid Item #08 Masonry will furnish and install the masonry cavity wall extruded polystyrene board insulation per 072100, 2.02, B.. Bid Item #12 shall furnish and install the glass fiber blanket insulation, this includes the sound attenuation above the ceilings per plans and specs. Bid Item #12 shall furnish and install the mineral wool blanket insulation. Bid Item #12 shall furnish and install the spray polyurethane foam insulation. Bid Item #12 shall furnish and install the vapor retarders.
10. Bid Item #08, Masonry Contractor shall furnish and install the Fluid Applied Membrane Air Barriers per Section 072726 and the Drawings.
 11. Bid Item #08, Masonry Contractor shall furnish and install the Joint Sealants and Caulking per Section 079200 to all masonry work furnished and installed, both inside and outside, with this work.
 12. Bid Item #08 Masonry Contractor shall be responsible to follow the Material Inspection and Testing procedures. The Owner will provide and pay for the actual material testing.
 13. Bid Item #08 Masonry Contractor shall be responsible to grout all door frames and misc items that require grout.
 14. Bid Item #08 Masonry Contractor shall furnish, install and provide all temporary protections, temporary enclosures, temporary heaters and temporary fuel to perform the masonry work per the project schedule in your base bid.
 15. Bid Item #08 Masonry Contractor shall furnish and install the Board Insulation per spec section 072100 at the cavity walls and masonry walls. Bid Item #08 shall furnish and install the board insulation anyplace the masonry work requires it. The board insulation required at the foundation perimeter and under the concrete slabs shall be furnished and installed by the concrete contractor Bid Item #03
 16. Bid Item #08 Masonry Contractor shall furnish and install all rebar for the masonry work and shall include a rebar shop drawing.
 17. Bid Item #08 Masonry Contractor shall cover and protect all masonry work.
 18. Bid Item #08 Masonry Contractor shall furnish the extra materials per the specs and shall build the mockup of the brick and mortar with flashings for approval prior to starting work per the specs.
 19. Bid Item #08 Masonry Contractor shall include all Including CMU, Brick, Mortar and Grout, Reinforcing Steel, Masonry Joint Reinforcement, Ties and Anchors, Embedded flashing and Misc. Masonry Accs.
 20. Bid Item #08 Masonry Contractor work shall furnish and install all above and below grade masonry at interior and exterior building walls as indicated per plans and specifications.
 21. Bid Item #08 Masonry Contractor shall be responsible for masonry mock-ups per plans and specifications.

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22. Bid Item #08 Masonry Contractor shall furnish and install all masonry grouting, masonry control joints, rebar, masonry anchors and/or masonry ties and all vertical and horizontal reinforcement for reinforced masonry construction. Provide proper connection of masonry rebar, masonry anchors and/or masonry ties to structural members and walls.
23. Bid Item #08 Masonry Contractor shall furnish, install and coordinate the layout for all rebar dowels and inserts for the masonry scope into the concrete work. This contractor can furnish and provide to the building concrete contractor any dowels that can be "wet" set prior to concrete pours. If not this contractor needs to furnish and install all of the rebar dowels that are installed in the concrete footings, foundation walls, slab on grade, slab on deck, and other areas as apply, for masonry reinforcing, after the concrete has been poured. This contractor should most likely plan to drill and epoxy the rebar dowels in place.
24. Bid Item #08 Masonry Contractor shall submit rebar shop drawings for all rebar per this scope of work.
25. Bid Item #08 Masonry Contractor shall properly clean all masonry work. This Contractor is responsible to protect all work (i.e. windows, glass, aluminum, etc.).
26. Bid Item #08 Masonry Contractor shall protect all other installed work while working in finished areas.
27. Bid Item #08 Masonry Contractor shall provide the cleaning of all concrete foundations and walls for masonry work as required to install masonry work. This may include, but not be limited to, scraping and sweeping off the footing in order to start layout. This may also include some dewatering.
28. Bid Item #08 Masonry Contractor shall install only any loose steel lintels, anchor bolts and bearing plates that are set and/or get grouted into the masonry. This also includes the installation of the anchor bolts and sleeve anchors for the same. Coordinate these work items with the approved shop drawings and all other Bid Items. The steel contractor and misc. steel contractor shall furnish the loose steel lintels to the jobsite for the mason to install. Masonry contractor to include any welding as called for on the plans for any loose lintel item.
29. Bid Item #08 Masonry Contractor shall furnish and install the masonry veneer anchors to the structure per specs.
30. Bid Item #08 Masonry Contractor shall furnish and install temporary bracing for the masonry walls as required and as needed for weather and site conditions.
31. Bid Item #08 Masonry Contractor shall furnish and install all cavity rigid insulation and associated taping and or sealants as required per plans and specifications. Refer to the specs.
32. Bid Item #08 Masonry Contractor shall furnish and install all flashing, weep holes, cavity drainage and vents materials per plans and specifications. Refer to the specs.

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SCOPES OF BIDS

33. Bid Item #08 Masonry Contractor shall provide all engineering and layout for this Scope of Work.
34. Bid Item #08 Masonry Contractor shall be responsible to layout all window, door, and louver openings in the masonry and construct the openings to strict tolerances so that the respective items will fit into the masonry openings. Use approved shop drawings. Contractor is required to field survey all openings after the masonry has been constructed and submit a detailed list to the CMc by each opening.
35. Bid Item #08 Masonry Contractor shall provide all scaffolding, ladders, stairs, hoisting cranes, fork lifts, mixers, hoses, mixing sheds, boom lifts, etc. as needed for this scope.
36. Bid Item #08 Masonry Contractor shall provide all safety devices and equipment for this work.
37. Bid Item #08 Masonry Contractor shall provide all block, brick, and masonry insulation as required for the wall types.
38. Bid Item #08 Masonry Contractor shall provide the welding of all masonry anchors to the structural steel in the field and prime paint same required for this scope of work.
39. Bid Item #08 Masonry Contractor shall grout the hollow metal and steel frames (supplied and installed by the Bid Item No. 09 General Trades Contractor.
40. Bid Item #08 Masonry Contractor shall seal / construct / build walls tight to roof / floor deck as illustrated on the drawings.
41. Bid Item #08 Masonry Contractor shall install all sleeves, etc. (furnished by others) that are to be installed in the masonry per plans and specifications. It is this Contractor's responsibility to coordinate these locations with the appropriate Bid Items. The Masonry Contractor shall be required to mortar / grout in all M.E.P.'s steel sleeves in the CMU walls tight and solid all around each sleeve.
42. Bid Item #08 Masonry Contractor shall install all interior and exterior masonry loose steel lintels that are required to support masonry installations. The Misc. Steel Contractor shall furnish these to the jobsite for the Mason to install.
43. Bid Item #08 Masonry Contractor shall furnish and install all masonry lintels and bond beams. Provide grout and/or concrete fill at these items as required per the Contract documents. Include support of all items until the proper curing period has expired and the proper strength(s) have been achieved.
44. Bid Item #08 Masonry Contractor shall provide minimum sized openings through masonry installations, (to keep fire stopping and sealant materials to a minimum). Coordinate all masonry penetrations with the appropriate Bid Item Contractors. For example, the Electrical, the Mechanical and Plumbing, the Fire Suppression and Sprinkler Piping Contractors. Fires topping will be provided by the MEP Contractors for their penetrations.
45. Bid Item #08 Masonry Contractor shall provide for all clean up and removal of all debris from this Scope of Work including, but not limited to, sand, mortar bags, pieces of

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concrete block, pieces of brick, scrap wire, scrap rebar, scrap insulation and final cleaning of the brick walls and CMU walls as required, etc.

46. Bid Item #08 Masonry Contractor shall provide a clean mortar joint at all items installed in masonry, so a clean caulk joint can be installed where applicable. Hollow metal frames are an example.
47. Bid Item #08 Masonry Contractor shall provide shoring and bracing required at new wall construction. Shoring and bracing shall be installed in such a manner to allow for the new support steel and/or masonry to be installed.
48. Bid Item #08 Masonry Contractor shall not lay bad brick or tile. Bad brick shall be hand "culled" out and hauled away at no additional cost. The brick manufacturer shall provide additional brick to make up the difference at no extra cost. Bad brick shall be defined as brick that have imperfections on the surface, chips, irregular length, width, and/or height, and warped brick. Hopefully the brick mockup will set the standards and we have a good quality brick.
49. Bid Item #08 Masonry Contractor shall furnish and install all joint sealants, caulking and backer rods associated with this scope of work. Provide all joint sealants for all masonry to masonry conditions, masonry to concrete conditions and all steel columns and/or steel items to masonry conditions, and for all interior and exterior masonry, CMU, and brick control joints.
50. Bid Item #08 Masonry Contractor shall cover and protect the tops of all walls at the end of each working day. This includes a weatherproof seal.
51. Bid Item #08 Masonry Contractor shall be responsible to clean any and all mill scale, mud, dirt, residue, grease, loose rust and debris that are a direct result of this scope of work, off of all of the loose steel, lintels, etc. installed by this Bid Item after erection. This shall be completed prior to finish painting by others.
52. Bid Item #08 Masonry Contractor shall provide "wet" blade cutting of all masonry work to limit dust. No dry cutting will be allowed.
53. Bid Item #08 Masonry Contractor shall bid the project to provide sufficient amounts of scaffolding, hoisting, fork lifts, mixers, and masons (workers) to expedite the masonry work. Contractor will be required to work multiple crews in multiple locations. Getting the building dried in and weather tight is on the project schedule critical path.
54. Bid Item #08 Masonry Contractor shall be responsible to provide gas masonry saws to cut with until such time as electric can be ran to the project site.
55. Bid Item #08 Masonry Contractor will have to plan to get water from a fire hydrant on site, Hagerman can provide that to the Masonry Contractor and pay for the water usage. The Bid Item #08 Masonry will have to haul the water from the fire hydrant near the main entry drive road to the building.
56. Bid Item #08 Masonry Contractor shall be responsible for patching masonry around structural elements after installation. Provide all joint sealants for this work. This

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includes, but is not limited to, top of walls to deck, masonry to masonry joints.

57. Bid Item #08 Masonry Contractor shall be responsible to inspect and repair all masonry walls after the block filler is applied, and prior to the first coat of finish paint.
58. Bid Item #08 Masonry Contractor shall be responsible for rubbing of all masonry walls prior to the application of block filler.
59. Bid Item #04 Steel Contractor shall be responsible to furnish the steel bearing plates to Bid Item #08 Masonry to install into the masonry work.
60. Bid Item #08 Masonry Contractor shall be responsible for the notes as apply to this scope of work on the Structural Drawings.
61. Bid Item #08 Masonry Contractor will furnish and install the compressible filler material for the cmu walls per the structural drawing details.
62. Bid Item #08 Masonry Contractor shall furnish and install the masonry control joints and Masonry joint sealants.
63. Refer to A200 for wall types.
64. Bid Item #08 Masonry Contractor shall include an allowance in the amount of \$500.00 in their bid for the procore management software fees.
65. Refer to Section for Bid Alternates.
66. Refer to Section for Bid Allowances.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 04 - MASONRY

| | |
|---------|-------------------------|
| Section | 04 20 00 - Unit Masonry |
|---------|-------------------------|

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

| | |
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| Section | 07 21 00 - Thermal Insulation |
|---------|-------------------------------|

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| | (As applies to this scope of work) |
| Section | 07 27 26 - Fluid-Applied Membrane Air Barriers |
| Section | 07 92 00 - Joint Sealants |
| | (As applies to this scope of work) |

BID PACKAGE #03 - BID ITEM #09: GENERAL TRADES WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #09, General Trades, shall furnish and install various items as noted and listed below. There are also some items that you furnish to other trades. Etc Kindly read carefully.
2. Bid Item #09, General Trades shall furnish and install one temporary scaffolding stair to sit on the ground beside / outside the building and go to the first floor roof 15' tall and the main building roof at 30' tall. Bid Item#09, General Trades shall furnish and install a second temporary scaffolding stair to sit on the ground beside the building and go to the main building room 30' tall. Include the rental cost of same for two stairs for a period of 8 months. The exact location of where these will be installed will be determined during construction. Include the takedown and removal costs too.
3. Bid Item#09, General Trades shall furnish and install the Concrete Surface Treatment per Section 033500 and per the drawings.
4. Bid Item #09, General Trades shall furnish and install the Aluminum and Tube Railings per Section 055215 and per the drawings.
5. Bid Item#09, General Trades shall furnish and install the Decorative Metal Railings with Glass per Section 057300 and per the drawings.
6. Bid Item#09, General Trades shall furnish and install the Glass Handrail System like per Keyed Plan Note #21 on A201A and the like.

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7. Bid Item#09, General Trades shall furnish and install the Railing Systems per Keyed Plan Note #21 (Glass Guardrail System) and #22 (Guardrail System) on A201A and the like.
8. Bid Item#09, General Trades shall furnish and install the railing system at Corridor A201 on A202A.
9. Bid Item#09, General Trades shall furnish and install the Roof Terrace Railing System at Room A228 on A202A, Room C225 on A202C, Room D207 on A202D.
10. Bid Item#09, General Trades shall furnish and install the Guardrail with Wire Mesh Infills per note 13 on A305. Like details 3, 4, 7, and 9 on A305. Also like shown on 2/A310.
11. Bid Item#09, General Trades shall furnish and install the railings like shown on 1 and 2 on A310.
12. Bid Item#09, General Trades shall furnish and install the Glass Railing System with wood cap per note 057200-A, like at details 7/A420 and 6/A420.
13. Bid Item#09, General Trades shall furnish and install the Wall Rails at all the Stairs, like at S102 – 5/A420. S202 – 4/A420 and the like. Per Note 055213-B on A420.
14. Bid Item#09, General Trades shall furnish and install the Wall Aluminum Railings and the Glass Rail System like shown on A421, A422 and A423 complete. Also refer to detail 7/A421 and
15. Bid Item #09, General Trades shall furnish and install all wood blocking, all metal strapping, for any item that requires it. This includes two by material and plywood.
16. Bid Item #09 General Trades shall furnish and install all roof wood blocking shown on the drawings.
17. Some wood blocking is fire treated, some is pressure treated etc.
18. Bid Item #09, General Trades shall furnish and install all wood blocking per Section 061053 and per the drawings.
19. Bid Item #09, General Trades shall furnish and install the Interior Architectural Woodwork per Section 064000. This includes standing and running trim (shop finished), Solid Surfacing material for the interior window sills. Plastic laminate shelving and clothes rods. Hardware for same. Shop finishing of all of these materials.
20. Bid Item#09, General Trades shall furnish and install the joint systems as apply to this scope of work per Section 079200 and the drawings. This includes caulking and joint sealants for the door frames and any item this scope installs and required caulking.
21. Bid Item#09, General Trades shall furnish and install the Hollow Metal Doors and Frames per Section 081113 and the drawings. Refer to A501 and the other drawings.
22. Bid Item#09, General Trades shall furnish and install the Flush Wood Doors per Section

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081419 and the Drawings.

23. Bid Item#09, General Trades shall furnish and install the Coiling Counter Doors per Section 083313 and the drawings. (Bid Item #26 Electrical to wire up). Refer to A502.
24. Bid Item#09, General Trades shall furnish and install the Overhead Coiling Doors per Section 083323 and the drawings. Refer to A502.
25. Bid Item#09, General Trades shall furnish and install the Grazed Aluminum Sectional Doors per Section 083615 and the drawings. (Bid Item #26 Electrical to wire up)
26. Bid Item#09, General Trades shall furnish and install the Door Hardware per Section 087100 and the drawings for the hollow metal, and wood doors complete.
27. Bid Item#09, General Trades shall “furnish only” the Door Hardware Per Section 087100 and the drawings for the Aluminum Framed Entrances and Storefronts Section 084113. Turn this Hardware over to Bid Item #11, Window Contractor to “Install only” the hardware to the Aluminum Doors.
28. Bid Item #09, General Trades shall furnish and install all removable door cores for all doors and access items. Including wood doors, hollow metal doors, aluminum doors, overhead doors, sectional doors, etc. This includes the “permanent removable cores” for the Aluminum Framed Folding Panel System section 087100.
29. Bid Item#25, Mechanical Contractor shall furnish and install the Fixed Louvers per Section 089119 and the Drawings.
30. Bid Item#09, General Trades shall furnish and install the Visual Display Units per Section 101100 and the Drawings. Includes Markerboards, Tackboards and Tack Strip Display Rail. Include the wood blocking for same. Refer to A602.
31. Bid Item#09, General Trades shall furnish and install the Display Cases per Section 101200 and the Drawings. Include the wood blocking for same.
32. Bid Item#09, General Trades shall furnish and install the Toilet Compartments per Section 102113 and the Drawings. Solid Polymer toilet compartment and urinal screens. Include wood blocking for same.
33. Bid Item#09, General Trades shall furnish and install the Cubicle Curtains and Track per Section 102123 and the Drawings. Include wood blocking for same.
34. Bid Item#09, General Trades shall furnish and install the Wall and Door Protection per Section 102600 and the Drawings. Include wood blocking for same.
35. Bid Item#09, General Trades shall furnish and install the Toilet, Bath and Laundry Accessories per Section 102800 and the Drawings. Include wood blocking for same. Bid Item #26 Electrical to wire up and install the electric warm air dryers. Refer to A701, A702 and A703.
36. Bid Item#09, General Trades shall furnish and install the Fire Extinguishers and Cabinets Per Section 104413 and the Drawings. Provide certified “tags” on each fire extinguisher. Coordinate the cabinets into metal stud and masonry walls for opening

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sizes.

37. Bid Item#09, General Trades shall furnish and install the Metal Lockers per Section 105113 and the Drawings.
38. Bid Item#09, General Trades shall furnish and install the Loading Dock Equipment per Section 111300 and the drawings. Bid Item #26 Electrical to wire it up.
39. Bid Item#09, General Trades shall furnish and install the wood blocking in walls for the food service equipment read section 114000 for the equipment and K drawings.
40. Bid Item#09, General Trades shall furnish and install the Roller Window Shades Per Section 122413 and the Drawings. Bid Item #26 to wire up.
41. Bid Item #09, General Trades shall be responsible to furnish and install the work per Keyed Plan Notes 4, 5, 10, 11, 12, 13, 17, and 18 on A201A and the other similar drawings. Bid Item #11 Window Contractor shall be responsible to furnish and install the work per Keyed Plan Notes, 1, 8 and 19 on A201A and the other similar drawings. Bid Item #07, Site Fencing Contractor shall be responsible to furnish and install the work per Keyed Plan Notes 23 on A201B and the like drawings. Bid Item #22, Bleacher Contractor shall be responsible to furnish and install the work per Keyed Plan Note 6 on A201A and other similar drawings. Bid Item #21, Gym Equipment Contractor shall be responsible to furnish and install the work per Keyed Plan Note 7 on A201A and other similar drawings. Bid Item #18, Operable Partition Contractor shall be responsible to furnish and install the work per Keyed Plan Note 3 on A201A and other similar drawings. Bid Item #12, Drywall Contractor shall be responsible to furnish and install the work per Keyed Plan Notes 15 and 16 on A201A and other similar drawings. Bid Item #25, Mechanical Contractor shall be responsible to furnish and install the work per Keyed Plan Notes 9 and 14 on A201A and other similar drawings.
42. Bid Item#09, General Trades shall furnish and install the hardwood trim like per 064000-B on 1/A420.
43. Bid Item #09, General Trades shall furnish and install the solid surface material window sills like shown in detail 4/A410, 5/A410 and 8/A410. Also include a solid surface material window sill at detail 5/A411. Refer to Finish Legend on A800. Refer to Section 123661.
44. Bid Item #09, General Trades shall be responsible to build wooden removable safety handrails systems in front of the 1st and 2nd floor elevator entrances. And Maintain and remove same during the course of the Elevator work.
45. Bid Item #09, General Trades shall provide a Bid Alternate Price for the door hardware as noted in Section 087100 and the drawings on the bid form.
46. Bid Item #09, General Trades shall furnish and install the Wood Entry Arch per detail 3/A800 in the Birch wood and shop finish.
47. Bid Item #09, General Trades shall be responsible to “shop finish” the detail 3/A800 Entry Arch – LGI Exhibit Space A145 to be wood stained to match P1.

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48. Bid Item #09, General Trades shall furnish and install the Gallery Display per details 1 and 4 on A800 complete. Refer to Section 05 70 20 Cable Hanging Systems
49. Bid Item #09, General Trades shall “furnish and install” the following pieces of equipment per the Equipment Schedule on A900. Items AP1, AP2, CG1, CT1, DC1, DL1, FE1, FE2, FE3, KB1, L1, MB1 thru 6, RS1, 2 and 3, TB1 thru 6. Also item PR1 (the swivel hook only) See equipment plans for locations and quantities.
50. Note the Dedication Plaque Item DP1 on the Equipment Schedule on A900 to be furnish and installed in a later signage bid package.
51. Bid Item #09, General Trades shall “install” only the Item AED on the Equipment Schedule on A900. Refer to the equipment plans for locations and quantities.
52. Bid Item #09, General Trades shall be responsible to furnish and install all work per the General Roof Notes, E and T, which is the wood blocking, on A103 and the other drawings.
53. Bid Item #09 General Trades shall furnish and install the “final” removable cores for the Aluminum Framed Folding Panel System to complete the doors, refer to 084100, 2.05, D (which calls for Bid Item #11 Window Contractor to furnish a temporary construction core), so in this case Bid Item #09 General Trades shall provide the final cores.
54. Bid Item #09, General Trades shall grade the existing mechanical outdoor yard and furnish and install 6” thick of #11 crushed limestone and spread to make level. Included nylon fabric under all of this to separate the stone from the dirt. Include an area of 60’ x 35’ in your bid.
55. Bid Item #09 General Trades shall furnish and install the wood blocking per note 2 on H/M501 for the roof equipment curbs.
56. Bid Item #09 General Trades shall furnish and install all of the indoor and out door housekeeping pad and equipment pads and curbs.
57. Bid Item #09 General Trades shall furnish and install the concrete bases for the Pumps P-1 thru P-6 as shown on L/M501 at Room B120 and LM502.
58. Bid Item #09 General Trades shall furnish and install the concrete pads for the two outdoor chillers like shown on M201B. Include the excavation, forming, concrete, rebar and backfill for these. Include an 8” thick concrete pad with a turn down slab at least 24” deep and Include #5 rebar at 12” OC each way both vertically and horizontally.
59. Bid Item #09 General Trades shall furnish and install the concrete pad for the emergency generator like shown on E301B. Include the excavation, forming, concrete, rebar and backfill for these. Include an 8” thick concrete pad with a turn down slab at least 24” deep and Include #5 rebar at 12” OC each way both vertically and horizontally.
60. Bid Item #09 General Trades shall furnish and install the concrete pad for the pad

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mounted electrical transformer like shown on E301B. Include the excavation, forming, concrete, rebar and backfill for these. Include an 8" thick concrete pad with a turn down slab at least 24" deep and Include #5 rebar at 12" OC each way both vertically and horizontally. Include the required blockouts and coordinate with Duke Electric.

61. Bid Item #09 General Trades shall furnish and install the concrete bases for the other mechanical equipment in Room B120 like per note 7 on 1/M503, the Bladder Tanks and Boilers.
62. Bid Item #09 General Trades shall furnish and install the concrete bases for the bladder tanks and remote evaporators like per note 17 on 2/M503.
63. Bid Item #09 General Trades shall furnish and install the concrete bases for the outdoor chillers per Note 18 on 2/M503.
64. Note: There are no concrete bases required under the Vertical Unit Ventilators like shown on 3/M503.
65. Bid Item #09 General Trades shall furnish and install a 4" concrete base under all of the electrical gear and equipment located in Rooms B120, B121 and B122.
66. Bid Item #09 General Trades shall furnish and install all concrete housekeeping pads, equipment pads and concrete curbs shown or indicated on the DRAWINGS, including the MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. The Bid Item requiring the pads or curbs shall provide layout information to Bid Item #09 General Trades. If a housekeeping pad, equipment pad or concrete curb is required, but not shown or indicated, it will be the responsibility of the Contractor requiring the pad to provide.
67. Bid Item #09 General Trades shall be responsible to furnish and install the plywood per Plan Note 2 on T501 and the like. Include required painting.
68. Bid Item #09 General Trades shall furnish and install temporary wood frame with reinforced plastic at the window openings. Also included temporary wood doors with latches and hasps for padlocks at the entry door areas.
69. Bid Item #09, General Trades shall include an allowance in the amount of \$500 in their bid for the procore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

| | |
|---------|-----------------------|
| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

**SECTION 00 24 00
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Section All Sections Included

DIVISION 03 CONCRETE

As applies to the concrete work

DIVISION 05 METALS

Section 057020 - Cable Hanging Systems

DIVISION 06 WOOD

Section 061053 – Wood Blocking

Section 064000 – Interior Architectural Woodwork

DIVISION 07 THERMAL AND MOISTURE PROTECTION

Section 079200 – Joint Sealants
(As applies to this scope of work)

DIVISION 08 OPENINGS

Section 08 11 13 - Hollow Metal Doors and Frames

Section 08 14 19 - Flush Wood Doors

Section 08 31 13 - Access Doors and Frames
(Only as applies to this scope of work)

Section 08 33 13 - Coiling Counter Doors

Section 08 33 23 - Overhead Coiling Doors

Section 08 36 15 - Glazed Aluminum Sectional Doors

Section 08 71 00 - Door Hardware

(See notes to turn door hardware over to Aluminum Door Sub to install)

DIVISION 10 SPECIALTIES

Section 10 11 00 - Visual Display Units

Section 10 12 00 - Display Cases

Section 10 21 13 - Toilet Compartments

Section 10 21 23 - Cubicle Curtains and Track

Section 10 22 38 - Operable Panel Partitions

Section 10 26 00 - Wall and Door Protection

Section 10 28 00 - Toilet, Bath, and Laundry Accessories

Section 10 44 13 - Fire Extinguishers and Cabinets

Section 10 51 13 - Metal Lockers

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DIVISION 11 EQUIPMENT

| | |
|---------|---|
| Section | 11 13 00 – Loading Dock Equipment |
| Section | 12 24 13 – Roller Window Shades |
| Section | 12 36 61 – Simulated Stone Countertops (Only as applies to this scope of work) |

BID PACKAGE #03 - BID ITEM #10 ROOFING WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #10, Roofer, shall furnish and install the Section 075321, Ethylene Propylene Diene Monomer (EPDM) Roofing complete including the roofing material, roof insulation, porcelain roof pavers, and adjustable pedestals per the specs and drawings.
2. This includes the plaza deck pavers section 075321, 2.07, 2.08, and 3.06.
3. Please note that Moisture Management will be a consultant on this project hired directly by the Owner.
4. State the brand of roofing materials you plan to use on the bid form please.
5. Bid Item #10 Roofer, shall furnish and install the Section 075419, Polyvinyl Chloride (PVC) Roofing per the specs and drawings. (Bid Alternate)
6. Bid Item #10 Roofer to furnish and install the roof walkways per Section 075419, 2.5.
7. Bid Item #10 Roofer to furnish and install the Section 075420, Thermoplastic Polyvinyl Chloride (PVC) Membrane Roofing Induction Weld Mechanically Attached System per specs and drawings. (Base Bid)

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8. Please note that Bid Item #09, General Trades shall furnish and install all wood blocking shown on the drawings, if any additional wood blocking is required, that is not show, Bid Item #10, Roofer shall furnish and install same.
9. Bid Item #10, Roofer shall furnish and install the Sheet Metal Flashing and Trim per Spec Section 076200 and the drawings.
10. Bid Item #10, Roofer shall furnish and install the Roof Specialties, including copings, roof edge flashings and reglets and counterflashings per Section 077100 and the drawings.
11. Bid Item #10, Roofer, shall be responsible to furnish and install all work per the General Roof Notes, A, B, C, D,G, H, I, J, K, L, N, O, P, Q, R, S, U, V, W,X, Y, Z, AA on A103 and the other drawings.
12. Bid Item #09, General Trades shall be responsible to furnish and install all work per the General Roof Notes, E and T, which is the wood blocking, on A103 and the other drawings.
13. Bid Item #13, Painter shall be responsible to furnish and install all work per the General Roof Notes, M on A103 and the other drawings, Paint roof items Gray please.
14. Bid Item #25, Mechanical shall be responsible to furnish and install all work per the General Roof Notes, F, on A103 and the other drawings. Make sure Plumbing vents and Mechanical pipes are tall enough on the roof.
15. Bid Item #10, Roofer shall provide all hoisting and lifting equipment for this work.
16. Bid Item #10, Roofer shall make sure all roof deck flutes are swept and blown out and clean before any roof insulation material gets installed.
17. Bid Item #10, Roofer shall provide all roof safety equipment before doing any roof work. Tie Off System, Perimeter System of Handrails, etc.
18. Bid Item #10 Roofer shall provide dumpsters for all debris and materials associated with this work. A roofer only dumpster so to speak
19. Note the roof blocking shown on the drawings shall be furnished and installed by the Bid Item # 09 General Trades.
20. Any additional wood blocking the roofer requires or needs, and is not shown on the drawings, shall be furnished and installed by Bid Item #10, Roofing Contractor.
21. Bid Item #10, Roofer shall conduct a preconstruction meeting prior to starting roofing work.
22. Bid Item #10, Roofer shall furnish and install the flexible walkways, make a shop drawing of the layout for approval.
23. Bid Item #10, Roofer shall furnish and install the sheet metal flashing and trim per specs and the drawings. This includes flashings, counter flashings, and fabricated sheet metal items.

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24. Bid Item #10, Roofer shall furnish and install the copings.
25. Bid Item #10, Roofer shall furnish and install the Joint Sealers as applies to this scope of work per section 079200.
26. Bid Item #04 (Steel) shall furnish and install two (2) rows of ½" diameter wire rope safety cables and required hardware (u-bolts, turnbuckles, etc.) at all perimeter edges, interior openings, and flat roof edges. Bid Item No. 04 (Steel) has included the removal of these, but he will need Bid Item #10 (Roofing) to advise when they should be removed and the Roofer shall be responsible to make the Roof safe as you transition to installing the roofing system.
27. Bid Item #10, Roofer shall furnish, install, maintain, and remove a roofing perimeter safety system per OSHA and the Hagerman Safety Manual, when doing roofing work.
28. Bid Item #10, Roofer shall sweep/clean all roof decks prior to installing the roofing material. Blow out all flutes of metal decking clean.
29. Bid Item #10, Roofer shall furnish and install all roof insulation and all tapered roof insulation as required. Bid Item #10 Roofing shall coordinate the thickness of the roof insulation to the roof drains and overflow drains with Bid Item #25 Mechanical Contractor.
30. Bid Item #10, Roofer, shall provide any "additional" wood blocking and sheathing at any "special roof" condition that may not be shown on the architectural drawings and needed to install a complete roof system.
31. Bid Item #10, Roofer shall furnish and install all flashing systems as required for this scope of work. Furnish and install roof flashing/counter-flashings for all Food Service Equipment, Plumbing, HVAC, Mechanical, Sprinkler, Electrical, Technology, Piping, Temperature Control penetrations. This includes flashing all roof equipment curbs and rails. The M.E.P. Contractors will stub the items through the roof for the Roofing Contractor to properly terminate and flash the roof. Bid Item #10, Roofer is required to review all drawings, including the M.E.P. and K drawings for this scope of the roof penetrations.
32. Bid Item #10, Roofer shall furnish and install all flashings and counter-flashings for all roof curbs supplied by others as shown and/or called for in the specs for other trades. Provide all flashings and reglets required to install the roof system completely. Provide all flashing and counter-flashings for all items on the roof.
33. Bid Item #10, Roofer shall provide Warranties and Guarantees per specs and plans.
34. Bid Item #10, Roofer shall provide all scaffolding, hoisting, rigging, forklifts, cranes, etc. to perform this work.
35. Bid Item #10, Roofer shall furnish and install the roof flashings for all plumbing, mechanical and electrical items. For example, review drawings M203A, M203B, M203C, and M203D, for things like roof drains, roof overflow drains, gravity exhaust fans, kitchen exhaust fans, toilet exhaust fans, RTU-1, MUA-1, flue intake and duct pipes, and

**SECTION 00 24 00
SCOPES OF BIDS**

MS-ACCU units, etc.

36. Bid Item #10 Roofer shall include an allowance in the amount of \$500 in their bid for the procore management software fees.

37. Refer to Section for Bid Alternates.

38. Refer to Section for Bid Allowances.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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|---------|-----------------------|
| Section | All Sections Included |
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DIVISION 07 THERMAL AND MOISTURE PROTECTION

| | |
|---------|--|
| Section | 079200 - Joint Sealants (as applicable to scope of work) |
| Section | 075321 - Ethylene Propylene Diene Monomer (EPDM) Roofing |
| Section | 075419 - Polyvinyl-Chloride (PVC) Roofing (Bid Alternate) |
| Section | 075420 - Thermoplastic Polyvinyl-Chloride (PVC) Roofing Induction Welded Mechanically Attached System(Base Bid) |
| Section | 076200 - Sheet Metal Flashing and Trim |
| Section | 077100 - Roof Specialties |

All Other Sections as may apply for coordination.

BID PACKAGE #03 - BID ITEM #11 ALUMINUM WINDOWS AND FOLDING GLASS PANEL SYSTEM WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

SECTION 00 24 00
SCOPES OF BIDS

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #11, Window Contractor, shall furnish and install the Aluminum Framed Folding Panel System per Section 084100 and the drawings.
2. Bid Item #11, Window Contractor shall advise if any block outs need to be made in the concrete floor for the work in 084100.
3. Bid Item #11, Window Contractor shall advise the overhead support required for the work in 084100 and the specified weights and loads of your product.
4. Bid Item #11, Window Contractor to provide trim closure pieces at the side walls and head as required for work in section 084100.
5. Bid Item #11, Window Contractor shall bid the project as the base bid for section 084100 to be a minimum STC Rating of 36 and the Bid Alternate for Section 084100, 2.01, B, to be minimum STC Rating of 45. Refer to Bid Alternate.
6. Bid Item #11, Window Contractor to furnish and install the Operable Glass Partitions types GP1 and GP2 per drawing A503 and the drawings and specs.
7. Bid Item #11, Window Contractor shall furnish and install caulking and joint sealants on both sides of the walls, all the way around, for the operable glass partitions. Submit matching color samples for approval.
8. Bid Item #11, Window Contractor to furnish and install the door hardware and accessories for the folding glass doors per Section 084100 complete.
9. Bid Item #11, Window Contractor shall furnish and install the Aluminum Framed Entrances and Storefronts per Section 084113.
10. Bid Item #11 Window Contractor shall caulk and joint sealant both the inside and outside of all the alum framed entrances, storefronts and windows.
11. Note, Bid Item #09, General Trades shall “furnish” the Door Hardware Per Section 087100 for the Aluminum Framed Entrances and Storefronts for the work in Section 084113 to Bid Item #11, Window Contractor. Bid Item #11 Window Contractor shall unload, receive and “install” the door hardware to the Aluminum Framed Entrances and Storefronts. Bid Item #11 shall coordinate the door hardware being purchased and make sure it fits and is compatible with the aluminum doors. Bid Item #11 shall install the door hardware and make final adjustments as needed to the aluminum and glass doors and frames. Bid Item #11 shall provide proper trim for the door hardware

SECTION 00 24 00
SCOPES OF BIDS

cylinders to fit in the aluminum doors.

12. Bid Item #11, Window Contractor shall read and review and provide a bid alternate price for the door hardware per Section 087100. (this would be for the installation only of door hardware to the Aluminum doors as may apply)
13. Bid Item #11, Window Contractor shall furnish and install the Glazing per Section 088000 and the drawings. This includes the doors, interior borrowed lights, and storefront framing, etc. All glass.
14. Refer to Drawings A501, A502 and A503.
15. Note: Bid Item #26 Electrical shall be responsible to install and wire up all of the electric door hardware devices, including electric strikes and power supplies etc, IE: any electrical power, including low voltage wiring to be by bid item 26 Electrician for door or ada door hardware.
16. Bid Item #11 Window Contractor to furnish and install the glass for all of the interior and exterior hollow metal doors and wood doors and hollow metal sidelights etc.
17. Bid Item #11, Window Contractor to provide complete submittals and field verify all openings prior to fabrication and install.
18. Bid Item #11, Window Contractor shall provide all joint sealants around all of the aluminum and glass doors for both the inside and outside of the building. Finish complete. Submit color to match. Refer to Section 079200.
19. Bid Item #11, Window Contractor shall provide all joints sealants and caulk for both the inside and outside of any products or materials they install.
20. Bid Item #11, Window Contractor shall provide all scaffolding, manlifts, ladders, and scissor lifts to perform this work.
21. Bid Item #11, Window Contractor shall receive, unload and handle all materials associated with this work.
22. Bid Item #11, Window Contractor to remove all stickers and labels from all products installed with this work.
23. Bid Item #11, Window Contractor, shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.
24. Refer to the Bid Alternate Section

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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00 24 00-30

SCOPES OF BIDS

**SECTION 00 24 00
SCOPES OF BIDS**

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION 07 JOINT SEALANTS

Section 079200 - Joint Sealants
(as applicable to scope of work)

DIVISION 08 OPENINGS

Section 084100 – Glazed Framed Folding Panel System
Section 084113 – Aluminum Framed Entrances and Storefronts
Section 087100 – Door Hardware
(As applies to coordinating and installing for the Aluminum and Glass Items)
Section 088000 – Glazing

BID PACKAGE #03 - BID ITEM #12, METAL STUD, DRYWALL, INSULATION, ACOUSTIC CEILINGs, WOOD GRILLE CEILINGs AND SOUND PANEL WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #12, Drywall Contractor shall furnish and install the cold formed metal framing per section 054000 and the drawings. Pay attention to the metal stud framing support required for the operable glass walls.
2. Bid Item #12, Drywall Contractor shall furnish and install the Glass Mat Gypsum Board Sheathing per Section 061643 and the drawings.

SECTION 00 24 00
SCOPES OF BIDS

3. Bid Item #12, Drywall Contractor shall furnish and install the Thermal Insulation per Section 072100 and the drawings as follows: Bid Item #12 shall furnish and install the foam plastic board insulation everywhere with the exception that Bid Item #03 Concrete will furnish and install the foam plastic board insulation at the below grade foundations per 072100, 2.02, A, and with the exception that Bid Item #08 Masonry will furnish and install the masonry cavity wall extruded polystyrene board insulation per 072100, 2.02, B.. Bid Item #12 shall furnish and install the glass fiber blanket insulation, this includes the sound attenuation above the ceilings per plans and specs. Bid Item #12 shall furnish and install the mineral wool blanket insulation. Bid Item #12 shall furnish and install the spray polyurethane foam insulation. Bid Item #12 shall furnish and install the vapor retarders.
4. Bid Item #12, Drywall Contractor shall furnish and install the Metal Siding per Section 074616 and the drawings. (to resemble wood siding). Include all necessary trim. This includes the siding and soffit work.
5. Bid Item #12, Drywall Contractor shall furnish and install the Penetration Firestopping per Section 078413 and the drawings including penetrations and fire safing for everything on the project except the MEP Items. The Respective MEP Contractor shall furnish and install their own firestopping for their work items.
6. Bid Item #12, Drywall Contractor shall furnish and install the Fire Resistive Joint Systems per Section 078446 and the Drawings.
7. Bid Item #12 Drywall Contractor shall furnish and install all fire safing insulation.
8. Bid Item #12 Drywall Contractor shall furnish and install all "sound sealants" and the bottom of walls, sides of walls, tops of walls and any type of penetration what so ever, including MEP items.
9. Bid Item #12, Drywall Contractor shall furnish and install the Joint Sealants per Section 079200 for all items included in this Bid Item #12 Work.
10. Bid Item #12, Drywall Contractor shall furnish and install the Access Doors Per Section 083113 and the drawings. Include all that are shown on the drawings and that you require for your work.
11. Bid Item #12, Drywall Contractor shall coordinate dimensions for all items that go into the walls and ceilings.
12. Bid Item #12, Drywall Contractor shall furnish and install the Non Structural Metal Framing Per Section 092216 and the drawings.
13. Bid Item #12, Drywall Contractor shall furnish and install the Gypsum Board per Section 092900 and the Drawings.
14. Note, Bid Item #12 Drywall Contractor shall finish the drywall to the best it can be in any area the gets natural light shining on it.
15. Note, Bid Item #12 Drywall Contractor shall finish the drywall to the best it can be behind any Wall Covering, Digital Wall Covering, and Dry Erased Wall Covering.

SECTION 00 24 00
SCOPES OF BIDS

16. Note, Bid Item #12 Drywall Contractor will prepare the walls properly for Tiling Work.
17. Bid Item #12, Drywall Contractor shall furnish and install the Acoustical Panel Ceiling per Section 095113 and the Drawings. Include additional support for grid as needed to span under MEP items and the like.
18. Bid Item #12 Drywall Contractor shall provide a ceiling layout shop drawing and include all MEP items in the drawing so you can coordinate your grid and ceiling layouts.
19. Bid Item #12, Drywall Contractor shall furnish and install the Wood Grille Ceilings per Section 095426 and the drawings.
20. Bid Item #12, Drywall Contractor shall furnish and install the Ceiling Types, CL1, CL2, CL4, CL6, CL7, CL8 and CL9 like shown on A211A and the like ceiling drawings.
21. Bid Item #12, Drywall Contractor shall furnish and install the Fabric Wrapped Panels per Section 097723 and the Drawings.
22. Bid Item #12, Drywall Contractor shall furnish and install the Acoustic Panel AP1, AP2, and Seat Panel SP1 and SP2 as shown on A800 Finish Legend and the drawings.
23. Bid Item #12, Drywall Contractor shall furnish and install the AWP1, AWP2, AWP3, AWP4, AWP5, AWP6, AWP7, AWP8, AWP9, AWP10, AWP11, AWP12, AWP13 and AWP14 as noted on the Equipment Schedule on A900 and the drawings.
24. Bid Item #12, Drywall Contractor shall furnish and install the WB1 materials as shown on the A800 Finish Legend per the drawings and specs
25. Bid Item #12, Drywall Contractor shall furnish and install the Sound Absorbing Wall Units per Section 098433 and the Drawings.
26. Bid Item #12 Drywall Contractor shall provide additional task lighting for this work as needed.
27. Bid Item #12 Drywall Contractor shall provide all ladders, lifts, manlifts, boom lights, scaffolding, etc to install this work.
28. Bid Item #12 Drywall Contractor shall include all unloading moving of materials.
29. Bid Item #12 Drywall Contractor shall include the removal of all trash and debris from this scope to the dumpsters on site provided by Hagerman.
30. Bid Item #12 Drywall Contractor will need to furnish and install the framing and support system for the Aluminum Framed Folding Panel System. For example, the Nanowall SL45 is a top hung system and the SL70 is a floor supported system. Bid Item #12 shall furnish and install the "metal framing" and the "wood blocking" as required by Nanowall for the weights and loads. The wood blocking would be internal with the framing as I understand.
31. Bid Item #12 Drywall Contractor to clean the drywall spackling compound off of the concrete floors completely, or cover and protect the floors while working.

**SECTION 00 24 00
SCOPES OF BIDS**

32. Refer to A200 for wall types.

33. Bid Item #12 Drywall Contractor shall furnish and install the insulation behind the metal siding.

34. Bid Item #12, Drywall Contractor shall include an allowance in the amount of \$500 in their bid for the procore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

| | |
|---------|-----------------------|
| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 05 METALS

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| Section | 054000 – Cold Formed Metal Framing |
|---------|------------------------------------|

DIVISION 06 - WOOD, PLASTICS & COMPOSITES

| | |
|---------|---|
| Section | 06 10 53 - Wood Blocking (As required for this scope of work the Aluminum Framed Folding Panel System 084100) |
| Section | 06 16 43 - Gypsum Board Sheathing |

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

| | |
|---------|---|
| Section | 07 21 00 - Thermal Insulation (As applies to this scope of work) |
| Section | 07 46 16 - Aluminum Siding |
| Section | 07 84 13 - Penetration Firestopping (for everything but MEP Items) |
| Section | 07 84 46 - Fire Resistive Joint Systems |
| Section | 07 92 00 - Joint Sealants (As applies to this scope of work) |

DIVISION 08 – OPENINGS

**SECTION 00 24 00
SCOPES OF BIDS**

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| Section | 08 31 13 - Access Doors and Frames |
| Section | 08 41 00 - Aluminum-Framed Folding Panel System (As applies for structural support) |

DIVISION 09 – FINISHES

| | |
|---------|--|
| Section | 09 22 16 - Non-Structural Metal Framing |
| Section | 09 29 00 - Gypsum Board |
| Section | 09 51 13 - Acoustical Panel Ceilings |
| Section | 09 54 26 - Wood Grille Ceilings |
| Section | 09 72 15 - Digital Wall Covering (As applies for drywall finishing) |
| Section | 09 72 20 - Dry Erase Wall Covering (As applies for drywall finishing) |
| Section | 09 77 23 - Fabric-Wrapped Panels |
| Section | 09 84 33 - Sound Absorbing Wall Units |

BID PACKAGE #03 - BID ITEM #13: PAINTING AND WALL COVERING WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general, this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install the Wall Coverings per Section 097200 and the Drawings.
2. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install the Digital Wall Coverings per Section 097215 and the Drawings. (Confirm the drywall is finished correctly before you install this product.)
3. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install the Dry

SECTION 00 24 00
SCOPES OF BIDS

Erase Wall Coverings per Section 097220 and the Drawings. (Confirm the drywall is finished correctly before you install this product.)

4. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install Interior Painting per Section 099123 and the Drawings.
5. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install Staining and Transparent Finishing per Section 099300 and the Drawings.
6. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install the High Performance Coatings per Section 099600 and the Drawings.
7. Bid Item #13: Painting & Wall Covering Contractor, shall be responsible for all submittal information for each individual product, including: product data, physical samples, shop drawings, coordination drawings, product schedule(s) and lists, qualification/testing, certificates, sample warranty, and product test reports.
8. Bid Item #13 shall provide mockups of painted surfaces as selected by Architect for approval.
9. Bid Item #13: Painting & Wall Covering Contractor, shall be responsible to furnish all close out submittals and activities, including: operation and maintenance data, warranties, and attic stock/extra materials.
10. Note, The Warranty to begin from date of Substantial Completion of the project.
11. Bid Item #13: Painting & Wall Covering Contractor, shall verify field conditions and self-performed measurements prior to fabrication and/or installation of said product.
12. Bid Item #13: Painting & Wall Covering Contractor, shall coordinate all activities and deliveries with Hagerman Project Team on site.
13. Bid Item #13: Painting & Wall Covering Contractor, to provide all necessary equipment for receiving of materials, unloading and moving of materials, and protection of surrounding finished work in paths of moving materials. It is the responsibility of Bid Item #13 to store and maintain all project products.
14. Bid Item #13: Painting & Wall Covering Contractor shall protect the work of other's completed work while performing work in that given space. Contractor is expected to provide all necessary equipment, coverings, or protections to ensure their work does not damage or compromise the work in or around his/her work space.
15. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install all components, including but not limited to: vinyl wall covering, digital wall coverings, magnetic receptive dry erase wall covering, adhesives, primer/sealer, wall liner, tape, and UV coating.
16. Bid Item #13 shall be responsible for "EXP. PT" & "EXP. DF" items. Reference Reflected Ceiling Plans.
17. Bid Item #13: Painting & Wall Covering Contractor, shall furnish and install the painting to the exposed Canopy Structure Painting like per Keyed Note 16 on A301 and

SECTION 00 24 00
SCOPES OF BIDS

A302 and A303. Exterior Elevations.

18. Bid Item #13: Painting & Wall Covering Contractor shall prepare wood substrates as required before finishes application.
19. Bid Item #13: Painting & Wall Covering Contractor shall furnish and install the paint to the exposed steel items like the lintels and the epoxy coating for interior substrates like cmu, steel and gypsum board in toilet rooms per Section 099600.
20. Bid Item #13 Painting Contractor shall be responsible for the Aliphatic polyurethane coatings for the exterior doors per Section 099600.
21. It shall be the responsibility of Bid Item #13: Painting & Wall Covering Contractor to examine and evaluate the surface of the location and environment prior to installation. All conditions which do not meet standards, must be reported to Hagerman Project Team and corrected prior to commencement of work.
22. Bid Item #13 Painting and Wallcovering Contractor shall be responsible for and furnish and install per the A800 FINISH SCHEDULE – Finish Legend notes identified on all associated drawings as follows:

WALL FINISHES: P1, P2, P3, P4, P5, P6, P7, and EP1, EP2, and WC1, WC2.
23. Bid Item #13, Painting Contractor shall be responsible for field staining and finishing of wood work not scheduled to receive factory-finishes.
24. Bid Item #13, Painting Contractor shall be responsible for painting all Hollow metal doors and frames on site and be responsible for metal grills, panels, and misc. metals to be painted in field. Wood Doors that are to be stained are the responsibility of the Wood Door Contractor, Bid Item #09 and the wood doors shall be factory finished. . Reference General Finish Notes on A701/A702/A703 and Finish Plans: 6, 7, and 8. Also Reference Door Schedule on A501 “PT” Items.
25. Bid Item #13, Painting & Wall Covering Contractor, shall be responsible for final cleaning. Items that you furnish and install.
26. Bid Item #13, Painting and Wall Covering Contractor shall be responsible to furnish and install the Concrete Surface Treatment per Section 033500 and the drawings.
27. Bid Item #13 Painter shall be responsible to furnish and install the sealed concrete work per the label “SC” on the Finish Legend on A800 and the other drawings and specs.
28. Bid Item #13, Painting Contractor shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

**SECTION 00 24 00
SCOPES OF BIDS**

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION 03 CONCRETE

Section 033500 – Concrete Surface Treatment

DIVISION 07 JOINT SEALANTS

Section 07920 - Joint Sealants
(as applicable to scope of work)

DIVISION 09 FINISHES

Section 097200 – Wall Covering
Section 097215 – Digital Wall Covering
Section 097220 – Dry Erase Wall Covering
Section 099123 – Interior Painting
Section 099300 – Staining and Transparent Finishes
(as applicable to scope of work)
Section 099600 – High-Performance Coatings

BID PACKAGE #03 - BID ITEM #14: CERAMIC TILE WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general, this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

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SCOPES OF BIDS

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #14: Ceramic Tile Contractor, shall furnish and install the Tiling per Section 093000 and the Drawings. Includes the porcelain tile and metal edge strips.
2. Bid Item #14: Ceramic Tile Contractor, shall be responsible for all submittal information for each individual product, including: product and technical data, physical samples, shop drawings with pattern designs, certificates, and test reports.
3. Bid Item #14: Ceramic Tile Contractor, shall provide verification from manufacturer as a qualified installer.
4. Bid Item #14 Ceramic Tile Contractor shall provide moisture testing prior to installing products.
5. Bid Item #14: Ceramic Tile Contractor, shall be responsible to furnish all close out submittals and activities, including: operation and maintenance data, warranties, and attic stock/extra materials.
6. Note, The Warranty to begin from date of Substantial Completion of the project.
7. Bid Item #14: Ceramic Tile Contractor, shall verify field conditions and self-performed measurements prior to installation of said product.
8. Bid Item #14: Ceramic Tile Contractor, shall coordinate all activities and deliveries with Hagerman Project Team on site.
9. Bid Item #14: Ceramic Tile Contractor, to provide all necessary equipment for receiving of materials, unloading and moving of materials, and protection of surrounding finished work in paths of moving materials. It is the responsibility of Bid Item #14 to store and maintain all project products.
10. Bid Item #14: Ceramic Tile Contractor shall protect the work of other's completed work while performing work in that given space. Contractor is expected to provide all necessary equipment, coverings, or protections to ensure their work does not damage or compromise the work in or around his/her work space. Bid Item #14, shall provide barrier protection and signage around work area during and after installation/application.
11. Note: It is essential that all parties communicate to ensure project conditions are as required to provide a high-quality finished product, including cured duration, concrete substrates, etc.
12. Bid Item #14: Ceramic Tile Contractor, shall furnish and install all components to provide products within source limitations set forth by the specification, such as: joint sealants, metal edge strips, tile and trim units (all), mounting assemblies (as necessary), temporary protective coating, primers and sealants, backer rods, grout, mortar, and patching compound.

SECTION 00 24 00
SCOPES OF BIDS

13. Bid Item #14: Ceramic Tile Contractor shall provide proper transitions for this work. Please note General Finish Note 11.
14. Bid Item #14: Ceramic Tile Contractor shall provide floor preparation (minor) to areas which shall receive said work to ensure surface meets tolerance and leveling requirements. It is the responsibility of Bid Item #14 to furnish and install a manufacturer's approved compound for repairing damages to given area and treat control joints and cracks.
15. It shall be the responsibility of Bid Item #14: Ceramic Tile Contractor installer/applicator to examine and evaluate the surface of the location prior to installation.
16. Bid Item #14 shall check the concrete floor levelness. Please include normal floor prep in your bid. If the floor requires more than normal floor prep, Hagerman will fix it.
17. Bid Item #14 shall be responsible for A800 FINISH SCHEDULE – Finish Legend notes identified on all associated drawings as follows:

WALL FINISHES: WT1, WT2, WT3, WT4,

WALL BASE: B3
18. Bid Item #14, Ceramic Tile Contractor is responsible for Finish Plan Notes: F5, F6, F7, and F10 (as applies to this scope of work) on Architectural Finish Plans. (Painting by Bid Item #13 Painter)
19. Bid Item #14: Ceramic Tile Contractor, shall be responsible for final cleaning and removal of temporary protective coating.
20. Bid Item #14: Ceramic Tile Contractor shall include prepping all concrete floor joints and cracks in base bid.
21. Bid Item #14: Ceramic Tile Contractor, shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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**SECTION 00 24 00
SCOPES OF BIDS**

DIVISION 03 CONCRETE

(as applicable to scope of work to coordinate flooring requirements)

DIVISION 07 JOINT SEALANTS

Section 079200 - Joint Sealants
(as applicable to scope of work)

DIVISION 09 FINISHES

Section 093000 – Tiling

BID PACKAGE #03 - BID ITEM #15: CARPET, LVT, AND VCT WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general, this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #15: Carpet, LVT and VCT Contractor, shall furnish and install the Resilient Base and Accessories per Section 096513 and the Drawings.
2. Bid Item #15: Carpet, LVT and VCT Contractor, shall furnish and install the Resilient Tile Flooring Per Section 096519 and the Drawings.
3. Bid Item #15: Carpet, LVT and VCT Contractor, shall furnish and install the Luxury Vinyl Tile per Section 096523 and the Drawings.
4. Bid Item #15: Carpet, LVT and VCT Contractor, shall furnish and install the Static Control Resilient Flooring Per Section 096536 and the Drawings.
5. Bid Item #15: Carpet, LVT and VCT Contractor, shall furnish and install the Tile Carpeting per Section 096813 and the Drawings.
6. Bid Item #15: Carpet, LVT and VCT Contractor, shall be responsible for all submittal

SECTION 00 24 00
SCOPES OF BIDS

information for each individual product, including: product and technical data, physical samples, product schedules, shop drawings with pattern designs, mockups, product test reports, and sample warranty.

7. Bid Item #15: Carpet, LVT and VCT Contractor, shall be responsible to provide verification from manufacturer as a qualified installer of the product, and that the submitted data and products meets specification requirements.
8. Bid Item #15: Carpet, LVT and VCT Contractor, shall be responsible to furnish all close out submittals and activities, including: operation and maintenance data, warranties, and attic stock.
9. Note, The Warranty to begin from date of Substantial Completion of the project.
10. Bid Item #15: Carpet, LVT and VCT Contractor, shall verify field conditions and self-performed measurements prior to installation of said product as needed.
11. Bid Item #15: Carpet, LVT and VCT Contractor, shall coordinate all activities and deliveries with Hagerman Project Team on site.
12. Bid Item #15: Carpet, LVT and VCT Contractor, to provide all necessary equipment for receiving of materials, unloading and moving of materials, and protection of surrounding finished work in paths of moving materials. It is the responsibility of Bid Item #15 to store and maintain all project products.
13. Bid Item #15: Carpet, LVT and VCT Contractor, shall protect the work of other's completed work while performing work in that given space. Contractor is expected to provide all necessary equipment, coverings, or protections to ensure their work does not damage or compromise the work in or around his/her work space. Bid Item #15: Carpet, LVT and VCT Contractor, shall provide barrier protection and signage around work area during and after installation/application.
14. Bid Item #15: Carpet, LVT and VCT Contractor, shall coordinate components and work with other Contractors, including but not limited to: Concrete for scheduling and layout. It is essential that all parties communicate to ensure project conditions are as required to provide a high-quality finished product, including cured duration, concrete substrates, etc.
15. Bid Item #15: Carpet, LVT and VCT Contractor, to provide alkalinity and adhesion, moisture testing of the concrete floors prior to installation.
16. Bid Item #15: Carpet, LVT and VCT Contractor, shall furnish and install all components to provide products within source limitations set forth by the specification, such as: resilient base, resilient base molding accessories, resilient stair accessories and rubber stair treads, vinyl composition floor tile (VCT), luxury vinyl tile (LVT), leveling and patching compounds, adhesives, carpet tile and walk-off carpet, and transition edge/strips (for associated work).
17. Bid Item #15 is responsible for Finish Legend identifications on A800 – Finish Schedule

SECTION 00 24 00
SCOPES OF BIDS

and all locations where noted on associated Finish Plan drawings:

FLOORING: WOC, CPT1, CPT2, CPT3, LVT1, RTR, VCT1, VCT2

WALL BASE: B1

18. Bid Item #15: Carpet, LVT and VCT Contractor, shall provide proper transitions for this work.
19. Bid Item #15: Carpet, LVT and VCT Contractor, shall provide floor preparation (minor) to areas which shall receive said work to ensure surface meets tolerance and leveling requirements. It is the responsibility of Bid Item #15 to furnish and install a manufacturer's approved compound for repairing damages to given area and treat control joints and cracks.
20. It shall be the responsibility of Bid Item #15: Carpet, LVT and VCT Contractor, installer/applicator to examine and evaluate the surface of the location prior to installation.
21. Bid Item #15 shall check the concrete floor levelness. Please include normal floor prep in your bid. If the floor requires more than normal floor prep, Hagerman will fix it.
22. Bid Item #15: Carpet, LVT and VCT Contractor, shall furnish and install the resilient base for all rooms as called for on the plans and specs. This includes areas with flooring outside of Bid Item #15 scope of bid.
23. Bid Item #15: Carpet, LVT and VCT Contractor, shall be responsible for a pre-cleaning of surfaces of said products.
24. Note Final Cleaning by Hagerman.
25. Bid Item #15: Carpet, LVT and VCT Contractor, shall include prepping all concrete floor joints and cracks in base bid.
26. Note: Bid Item #15 Carpet, LVT and VCT Contractor shall furnish and install the B1, Rubber Base at the Gymnasium Room B101.
27. Bid Item #15: Carpet, LVT and VCT Contractor, shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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Section All Sections Included

DIVISION 03 CONCRETE

(as applicable to scope of work to coordinate flooring requirements)

DIVISION 07 JOINT SEALANTS

Section 079200 - Joint Sealants
(as applicable to scope of work)

DIVISION 09 FINISHES

Section 09 65 13 – Resilient Base and Accessories
Section 09 65 19 – Resilient Tile Flooring
Section 09 65 23 – Luxury Vinyl Tile Flooring
Section 09 65 36 – Static Control Resilient Flooring
Section 09 68 13 – Tile Carpeting

BID PACKAGE #03 - BID ITEM #16: EPOXY RESINOUS FLOOR WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general, this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #16: Epoxy Floor Contractor, shall furnish and install the resinous urethane, full rejection epoxy flooring, and base, and preparation and finishes to provide a completed product per Section 096723 Resinous Flooring and the drawings.
2. Bid Item #16: Epoxy Floor Contractor, shall be responsible for all submittal documents

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SCOPES OF BIDS

and information for each individual product, including: product and technical data, and material test reports. Bid Item #16 shall supply physical sample(s) as specified in Section 09 67 23 and within construction drawings, as a verification sample or sample set with selected featured applied.

3. Bid Item #16: Epoxy Floor Contractor, shall be responsible to provide verification from manufacturer as a qualified installer of the product, and that the submitted data and products meets specification requirements.
 4. Bid Item #16: Epoxy Floor Contractor, shall be responsible to furnish all close out submittals and activities, including: operation and maintenance data, and warranty.
 5. Note, The Warranty to begin from date of Substantial Completion of the project.
 6. Bid Item #16: Epoxy Floor Contractor, shall verify field conditions and self-performed measurements prior to installation of said product.
 7. Bid Item #16: Epoxy Floor Contractor, to install the resinous flooring system only after location is prepared and meets all requirements for environmental limitations.
 8. Bid Item #16: Epoxy Floor Contractor, shall coordinate all activities and deliveries with Hagerman Project Team on site.
 9. Bid Item #16: Epoxy Floor Contractor to provide all necessary equipment for receiving of materials, unloading and moving of materials, and protection of surrounding finished work in paths of moving materials. It is the responsibility of Bid Item #16 to store and maintain all project products.
- Bid Item #16, Epoxy Floor Contractor shall protect the work of other's completed work while performing work in that given space. Contractor is expected to provide all necessary equipment, coverings, or protections to ensure their work does not damage or compromise the work in or around his/her work space. Bid Item #16: Epoxy Floor Contractor, shall provide barrier protection and signage around work area during and after installation/application. Bid Item #16 shall cover and protect the finished floor product after installation.
10. Bid Item #16: Epoxy Floor Contractor, shall coordinate components and work with other Contractors, including but not limited to: Concrete for scheduling and layout. It is essential that all parties communicate to ensure project conditions are as required to provide a high-quality finished product, including cured duration, concrete substrates, etc.
 11. Bid Item #16 Epoxy Floor Contractor to provide moisture testing of the concrete floors prior to installation.
 12. Bid Item #16: Epoxy Floor Contractor, shall furnish and install all components to provide products within source limitations set forth by the specification, such as: flooring materials, reinforcing membrane primers, resins, hardening agents, sealers/finishes, patching/fill, joint sealants, grout (as applicable), etc.

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SCOPES OF BIDS

13. Bid Item #16 Epoxy Floor Contractor shall provide proper transitions for this work
14. Bid Item #16: Epoxy Floor Contractor, shall furnish and install the anodized aluminum transition strips and epoxy cove base for said areas.
15. Bid Item #16: Epoxy Floor Contractor shall provide all equipment and labor for sawing cutting at transitions areas of said work.
16. Bid Item #16: Epoxy Floor Contractor shall provide floor preparation (minor) to areas which shall receive said work to ensure surface meets tolerance and leveling requirements. It is the responsibility of Bid Item #16 to furnish and install a manufacturer's approved compound for repairing damages to given area and treat control joints and cracks.
17. It shall be the responsibility of Epoxy Floor Contractor to examine and evaluate the surface of the location prior to installation. Any unsatisfactory condition of surface, lighting, etc. must be reported to the Hagerman Project Team immediately and prior to installation of the flooring system. Installation may commence once any/all unsatisfactory conditions have been corrected by responsible entity and with approval. It is the responsibility of Bid Item #16 to provide project conditions during installation which reflect the finished-product condition for evaluation and approval purposes.
18. Bid Item #16 shall check the concrete floor levelness. Please include normal floor prep in your bid for grinding some high spots or leveling a low spot. If the floor requires more than normal floor prep Hagerman will fix it.
19. Bid Item #16 shall furnish and install the B2 Epoxy Base and the EPXY Flooring per the Finish Schedule on A800 and the finish floor plans A801A, A801B, A801C, A801D, and A802A, A802B, A802C, A802D, and A701 and A702
20. My room take off for the epoxy floor and epoxy base is as follows, please verify and confirm this and bid what is called for on the drawings and specs, this is a place for you to start getting up to speed on the project: (Kindly submit a list of the rooms you include with your bid)
Unit A First Floor:
A109 Clinic
A110 Toilet / Clinic Restroom (2/A701)
A110 Exam
A126 Mens Restroom (3/A701)
A128 Womens Restroom (3/A701)
A137 Toilet / Restroom (4/A701)
Unit B Second Floor:
B107 / Gym Toilet (5/A701)
B111 Ware Washing
B112 Managers Office

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B109 Serving
B110A Food Service
B110B Cooler
B110C Freezer
B114 Lockers
B115 Staff Restroom (9/A702)
B102 Cafeteria
B124 Sink (1/A701)
B125 Boys (1/A701)
B126 Girls (1/A701)
Unit C First Floor:
C114 Student Toilet (6/A701)
C115 Student Toilet (6/A701)
C111 Sink (6/A701)
C135 Student (7A701)
C136 Student (7A701)
Unit D First Floor:
D101 Artroom
D102 Art Storage Room
D103 Art Kiln Room
D131 Student Toilet (10/A701)
D132 Student Toilet (10/A701)
D106 Mens Restroom (8/A701)
D107 Womens Restroom (8/A701)
D116 Student Toilet (9/A701)
D117 Student Toilet (9/A701)
Unit A Second Floor:
A211 Student Toilet (3/A702)
A210 Student Toilet (3/A702)
A207 Sink (3/A702)
A226 Student Toilet (1/A702)
A227 Student Toilet (1/A702)
Unit B Second Floor:
(None)
Unit C Second Floor:
C231 Staff Toilet (5/A702)
C232 Staff Toilet (5/A702)
C234 Staff Toilet (4/A702)
C235 Staff Toilet (4/A702)
C214 Student Toilet (6/A702)
C215 Student Toilet (6/A702)
C211 Sink (6/A702)
Unit D Second Floor:
D202 Staff Toilet (2/A702)

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SCOPES OF BIDS**

D203 Staff Toilet (2/A702)
D205 Student Toilet (7/A702)
D206 Student Toilet (7/A702)
D213 Sink (8/A702)
D216 Student Toilet (8/A702)
D217 Student Toilet (8/A702)

21. Bid Item #16, Epoxy Floor Contractor, shall furnish and install the epoxy base for all rooms as called for on the plans and specs.
22. Bid Item #16: Epoxy Floor Contractor, shall be responsible for a final cleaning.
23. Bid Item #16 Epoxy Floor Contractor shall include prepping all concrete floor joints and cracks in base bid.
24. Bid Item #16: Epoxy Floor Contractor, shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 03 CONCRETE

(as applicable to scope of work to coordinate flooring requirements)

DIVISION 07 JOINT SEALANTS

| | |
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| Section | 079200 - Joint Sealants (as applicable to scope of work) |
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DIVISION 09 FINISHES

| | |
|---------|----------------------------|
| Section | 096723 - Resinous Flooring |
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SCOPES OF BIDS

BID PACKAGE #03 - BID ITEM #17: ATHLETIC FLOORING WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general, this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #17, Fluid Applied Athletic Flooring Contractor, shall furnish and install the fluid-applied polyurethane flooring per Section 096766 and the drawings.
2. Bid Item #17 shall furnish and install the Poured Urethane (UR) at the Gymnasium Room B101 and refer to A800 and A900 and A901B.
3. Bid Item #17 Athletic Flooring Contractor is asked to submit a physical sample of their product they are bidding with their bid and a color chart.
4. Bid Item #17, Athletic Flooring, shall be responsible for all submittal documents and information for each individual product, including product data, shop drawings and layouts, samples, and color/gloss charts.
5. Bid Item #17 shall supply a physical sample as specified in Section 09 67 66, as a verification sample with selected featured applied again during the submittal process.
6. Bid Item #17, Athletic Flooring, shall be responsible for all to provide verification from manufacturer as a qualified installer of the floor system.
7. Bid Item #17, Athletic Flooring, shall be responsible to furnish all close out submittals and activities, including: operation and maintenance data, and warranty.
8. Note, Warranty to begin from date of Substantial Completion of the entire project.
9. Bid Item #17, Athletic Flooring, shall verify field conditions and self-performed measurements prior to installation of athletic flooring system.
10. Bid Item #17, Athletic Flooring, to install the athletic flooring system only after the floor is prepared and meets all requirements for environmental limitations.

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11. Bid Item #17, Athletic Flooring, shall coordinate all activities and deliveries with Hagerman Project Team on site.
12. Bid Item #17, Athletic Flooring, to provide all necessary equipment for receiving of materials, unloading and moving of materials, and protection of surrounding finished work in paths of moving materials.
13. Bid Item #17 Contractor shall protect the work of other's completed work while performing work in that given space. Special consideration must be taken to protect work beneath and overhead; Contractor is expected to provide all necessary equipment, coverings, or protections to ensure their work does not damage or compromise the work in or around his/her work space. Bid Item #17, Athletic Flooring, shall provide barrier protection and signage around work area during and after installation/application.
14. Bid Item #17, Athletic Flooring, shall coordinate components and work with other Contractors, including but not limited to: Concrete, Telescoping Stands, and Gymnasium Equipment Contractors for scheduling and layout.
15. Bid Item #17, Athletic Flooring, shall furnish and install all components to provide a finish product, such as: resilient base mat, polyurethane coats (body and top), sealer, adhesives, game lines and marking paints and primers.
16. Bid Item #17, Athletic Flooring shall ensure use of low-emitting materials with VOC contents which meet specification requirements.
17. Bid Item #17, Athletic Flooring shall provide floor preparation (minor) to areas which shall receive said work to ensure surface meets tolerance and leveling requirements. It is the responsibility of Bid Item #17 to provide a manufacturer's approved compound for repair or preparation for all leveling and patching purposes to given area.
18. Bid Item #17 shall check the floor levelness, if any major grinding needs to occur to the concrete Hagerman will take care of it.
19. It shall be the responsibility of Bid Item #17, Athletic Flooring installer to examine and evaluate the surface of system's planned-location prior to installation. Any unsatisfactory condition of surface must be reported to the Hagerman Project Team immediately and prior to installation of the flooring system. Installation may commence once any/all unsatisfactory conditions have been corrected by responsible entity and with approval.
20. Bid Item #17 Athletic Flooring Contractor shall include prepping all concrete floor joints and floor cracks in their base bid.
21. Bid Item #17, Athletic Flooring, shall be responsible for cleaning, touch-up, and final adjustments to be made for associated work. Any damages or conditions that do not meet specification standards shall be the responsibility of Bid Item #17 to repair and/or replace to meet specifications at no additional cost.
22. Bid Item #17, Athletic Flooring, shall be responsible to furnish and apply all game-lines

**SECTION 00 24 00
SCOPES OF BIDS**

and marking paint(s) to athletic floor. Submit a detailed dimensioned shop drawing for approval and include paint colors.

- 23. Bid Item #17, Athletic Flooring, shall be responsible for drawing markings labeled "PE5" on A900 – Equipment Schedule and where applicable on all associated drawings where identified. Also refer to A901B for Room B101 Gym.
- 24. Bid Item #17, Athletic Flooring shall be responsible for a final cleaning.
- 25. Bid Item #17 Athletic Flooring Contractor to provide moisture testing of the concrete floors prior to installation.
- 26. Bid Item #17: Fluid Applied Athletic Flooring Contractor, shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.
- 27. Note: Bid Item #15 Carpet, LVT and VCT Contractor shall furnish and install the B1, Rubber Base at the Gymnasium Room B101.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 07 THERMAL AND MOISTURE PROTECTION

| | |
|---------|--|
| Section | 079200 – Joint Sealers (As Applies to this scope of work) |
|---------|--|

DIVISION 09 FINISHES

| | |
|---------|---|
| Section | -09 67 66 – Fluid-Applied Athletic Flooring |
|---------|---|

BID PACKAGE #03 - BID ITEM #18: OPERABLE PANEL PARTITION WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment,

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SCOPES OF BIDS

materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #18, Operable Partition Panel Contractor shall furnish and install the Operable Panel Partition per Section 10 22 38 and per the drawings complete.
2. Refer to Drawing A201B, and furnish and install the electrically operated continuously hinged operable panel partition per note # on A201B. This goes between rooms B101 Gym and B102 Cafeteria.
3. Refer to A900, Equipment Schedule, PT1, Operable Partition and as shown on A901B.
4. Provide a detailed shop drawing for the electric partition.
5. Provide shop drawing so that we can coordinate the support system over the partition.
6. Provide the specified seals
7. Provide warranty per spec.
8. Provide attic stock per spec.
9. Provide the required design documentation.
10. Provide Owner training and startup.
11. Bid Item #18 shall be responsible for the "WC1" material and install to the moveable partition. Reference General Finish Note 20 on A701/A702/A703 and Finish Plans.
12. Note, Bid Item #26, Electrical Contractor shall wire up the partition complete. Bid Item #18 shall turn operating devices over to Electrical Contractor to install.
13. Bid Item #18: Operable Panel Partition Contractor, shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

**SECTION 00 24 00
SCOPES OF BIDS**

Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION 10 SPECIALTIES

Section 102238 – Operable Panel Partition.

BID PACKAGE #03 - BID ITEM #19: FOOD SERVICE EQUIPMENT WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #19, Food Service Equipment Contractor (FSEC) shall furnish and install the food service equipment per Section 11400, and per the K Drawings K100, K101, K102, K200, K300, K400, K500, K600, K700, K701 and K702.
2. Bid Item #19, FSEC shall also read and follow Section 11400 except as amended below.
3. Bid Item #19, FSEC shall also review the Architectural and MEP Drawings and make sure everything is properly coordinated.
4. Bid Item #19, FSEC shall provide detailed shop drawing including a MEP rough in drawing that is dimensioned from the center line of columns and face of walls.
5. Bid Item #19, FSEC shall be responsible for all plan notes on the “K” Drawings as apply to this work.

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6. Bid Item #19, FSEC shall provide detailed shop drawings of all custom equipment.
7. Bid Item #19, FSEC shall provide cut sheets and shop drawings of all equipment.
8. Bid Item #19, FSEC shall furnish and install all silicone and joint sealants for all FSEC work.
9. Bid Item #19 FSEC shall field measure for all equipment.
10. Bid Item #19 FSEC shall coordinate all food service equipment dimensions with all other trades.
11. Bid Item #19 FSEC shall field inspect all underground MEP rough ins prior to the concrete floor being poured.
12. Bid Item #19 FSEC shall set the walk in cooler and freezer base panels, and shall properly support the wall base pieces so they do not bow and move during the concrete floor pours. Read and coordinate notes on K400 with the Concrete Contractor.
13. Bid Item #19 FSEC shall cut all openings in the roofing metal decking as required to install this work.
14. Bid Item #19 FSEC shall furnish and install all roof curbs, all roof rails, etc, prior to the roof being installed for any equipment that you furnish that needs a roof curb or rail.
15. Bid Item #19 FSEC shall include the air balance for the cooking hoods contrary to what section 11400, page 31, may say. You need to know if you have a problem so you can fix it before School starts.
16. Please note food service equipment items 1, 2, 3, 6 and 67 are not to be included in the Bid Item #19 FSEC base bid. All other items are to be. Refer to K101.
17. Bid Item #19 FSEC shall provide all stainless steel closure pieces and corner guards are required to properly trim out due to field conditions.
18. Bid Item #19 FSEC shall furnish and install the required $\frac{3}{4}$ " marine grade plywood for any and all food service equipment that needs it for support for installation.
19. Bid Item #19 FSEC shall furnish to the jobsite the floor trough drains with grates and turn over to the Plumber to install. Like Detail D/K700. Provide a shop drawing for layout.
20. Bid Item #19 FSEC shall furnish to the jobsite the floor sump drains with grates and turn over to the Plumber to install. Provide a shop drawing for layout.
21. Bid Item #19 FSEC Contractor shall furnish and install the quartz top, quartz front edge, and the $\frac{3}{4}$ " plywood subbase, and the specified plastic laminate for the Food Service Equipment Item #61 Student Serving Counter (like shown on K702) and #66 Double Sided Cashier Counter (like shown on K101). Make sure the quartz you purchase is rated for the heat the heat wells put out. Include the plastic laminate on

SECTION 00 24 00
SCOPES OF BIDS

the front as noted for Item 61 in detail H/K702 and Item 66 all per Section 11400.

22. Bid Item #19, FSEC Contractor shall read Food Service Equipment Item #61 on page 114000-41 and Item #66 on page 11400-42, to understand the requirements for the quartz tops, quartz edge, $\frac{3}{4}$ " marine grade plywood, and the laminate front with stainless steel edge, and the laminate for the recessed surface and sides and rear, and Bid Item #19 shall furnish and install all of these materials to make the Item 61 and 66 complete as part of your base bid.
23. Bid Item #19 FSEC shall provide all stainless steel supports spaced closely for the plywood and quartz and plastic laminates finishes.
24. Bid Item #19 FSEC shall furnish and install heat insulation material to wrap the heat well and keep the heat away from the quartz top. Make sure the quartz you purchase is rated for the heat the heat wells put out. Include the plastic laminate on the front as noted. Item 61 Section 11400 and detail H/K702.
25. Bid Item #19 FSEC to furnish and install the quartz tops, SS3, Handstone, like shown on the Finished Schedule on A800.
26. Bid Item #19 FSEC shall furnish and install custom measured and made pieces to wrap the head, sides and sill of the soiled dish return, including a piece over the cmu wall, like shown on detail A/K702.
27. Bid Item #19 FSEC shall furnish and install the quartz top, plywood sub base and plastic laminates for all pieces of food service equipment called for including Item #61 and #66.
28. Note, The MEP Contractors shall make respective Kitchen Equipment rough ins and final connections.
29. Bid Item #19 FSEC shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.
30. Please note the food service designer Reintano Design Group would like the bid unit price form filled out and submitted with your bid. Refer to Section 11400. A copy of this is behind the Project Bid Form.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

| | |
|---------|-----------------------|
| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

**SECTION 00 24 00
SCOPES OF BIDS**

Section All Sections Included

DIVISION 07 THERMAL AND MOISTURE PROTECTION

Section 079200 – Joint Sealers
(As Applies to this scope of work)

DIVISION 11 EQUIPMENT

Section 11400 – Food Service Equipment

DIVISION 12 FURNISHINGS

Section 123661 – Simulated Stone Countertops
(For Quartz Tops Work Only)
(Bid Item #19 to furnish and install the quartz tops to food
service equipment)

BID PACKAGE #03 - BID ITEM #20: MANUFACTURED CASEWORK AND TOPS WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #20 Casework and Tops Contractor shall furnish and install all Manufactured Plastic Laminate Casework and Top per Section 123216 and as called for on the drawings.
2. Bid Item #20 Casework Contractor shall provide shop drawings that show where wood blocking will be required. Bid Item #09, General Trades will be responsible to furnish and install the wood blocking inside the walls for support for this work.

SECTION 00 24 00
SCOPES OF BIDS

3. Bid Item #20 Casework Contractor shall provide all work per Section 123216, which includes plastic laminate faced cabinets of stock design, plastic laminate countertops associated with casework, wall shelving, woodwork as related to casework, solid surface material countertops associated with casework and the reception desk.
4. Bid Item #20 Casework Contractor shall field verify all dimensions prior to fabrication.
5. Bid Item #20 Casework Contractor will provide all shims required to properly install the casework and tops.
6. Bid Item #20 Casework Contractor shall clean up all work areas daily. He shall also remove all stickers and wipe out and wipe off all shelves, all cabinets, all tops etc.
7. Bid Item #20 Casework Contractor shall put all trash and debris in the Hagerman provided dumpster on site daily.
8. Bid Item #20 Casework Contractor shall properly seam all joints in all materials.
9. Bid Item #20 Casework Contractor shall provide all joint sealants and caulk to seal all cabinets, tops, backsplashes etc to the adjacent wall and / or floor surfaces.
10. Bid Item #20 Casework Contractor shall be required to furnish and install a 1/2" layer of carpet padding over all cabinets and tops to "protect" the finished surfaces as the products are being installed.
11. Bid Item #20 Casework Contractor shall install signs in each room that states "Please be careful to protect the finished products".
12. Bid Item #20 Casework Contractor shall create a keying schedule for this work.
13. Bid Item #20 Casework Contractor shall collect all cabinet keys and turn over to the Owner at the end of the project.
14. Bid Item #20 Casework Contractor shall provide additional task lighting to install this work as needed.
15. Bid Item #20 Casework Contractor shall provide samples and color selections of material as needed during the submittal process.
16. Bid Item #20 Casework Contractor shall furnish and install all hardware to cabinets, etc.
17. Bid Item #20 Casework Contractor shall make special attention to the countertops containing sinks per 123216, 2.08, B, 4.
18. Bid Item #20 Casework Contractor shall make all cuts to the cabinets and countertops for items that that other trades have to install in same.
19. Bid Item #20 Casework Contractor shall furnish and install the holes in the tops like shown in detail 10, 11, 12, and 13 on A600.
20. Bid Item #20 Casework Contractor shall furnish and install the required filler pieces, grommets, steel supports, caulking, etc to make the work complete.

**SECTION 00 24 00
SCOPES OF BIDS**

21. Bid Item #20 Casework Contractor shall furnish and install the Reception Desk complete with tops etc, like shown on A600 at Waiting Room A103 and Reception Room A105 on A201A.
22. Bid Item #20 Casework Contractor shall furnish and install the PL1 and SS2 countertops per A800 and the other drawings and specs for the cabinets this scope furnished and installed by this work.
23. Bid Item #20 Casework Contractor shall include an Allowance in the amount of \$500.00 in their bid for the ProCore management software fees.
24. Bid Item #20 Casework Contractor shall provide an add alternate price on the bid form for the alternate wall cabinets and alternate tall storage cabinets as noted on Drawing A600 in the cabinet schedule and details 14, 15, 16, 17, and 18 on A600.
25. Bid Item #20 Casework Contractor shall furnish and install the solid surface material countertops per Section 123661, 2.08, C and per the drawings.
26. Bid Item #20 Casework Contractor shall review and include the materials on the Finish Schedule on A800 that apply to this work.
27. Bid Item #20 Casework Contractor to make all cut outs as required for other trades work and items. Like sinks and electrical devices etc.
28. Note, Bid Item #19, FSEC shall furnish and install the Quartz tops and plywood subbase per Section 11400 for the Food Service Equipment Items #61 and #66. Also as applies to Section 123661 for the Quartz Countertops for the food service equipment Item 61 and 66.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 07 THERMAL AND MOISTURE PROTECTION

| | |
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| Section | 079200 – Joint Sealers (As Applies to this scope of work) |
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**SECTION 00 24 00
SCOPES OF BIDS**

DIVISION 12 FURNISHINGS

| | |
|---------|--|
| Section | 123216 – Manufactured Plastic Laminate Faced Casework |
| Section | 123661 – Simulated Stone Countertops (As Applies to this scope of work -For Solid Surface Material Counter Tops Work Only) |

BID PACKAGE #03 - BID ITEM #21: GYMNASIUM EQUIPMENT WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #21: Gymnasium Equipment Contractor shall furnish and install the gymnasium equipment, including but not limited to, basketball equipment and wall padding per Section 116623 and the Drawings. Note, the Scoreboard shall be furnished and installed by Bid Item #26 Electrical Contractor.
2. Note, the Scoreboard as specified in Section 116623, (1.02 and 2.05) Gymnasium Equipment shall be furnished and installed by Bid Item #26 Electrical Contractor.
3. Bid Item #21: Gymnasium Equipment shall be responsible for all action submittal documents and information for each individual product, including product data, shop drawings, samples, color charts/cards, assembly/disassembly/storage instructions, score board and basketball equipment motor information.
4. Bid Item #21, Gymnasium Equipment, shall be responsible for all information submittals including coordination drawings, qualification data, product certifications, and sample warranty.
5. Bid Item #21, Gymnasium Equipment, shall be responsible to furnish all close out submittals and activities, including: operation and maintenance data, special warranties, and Owner training of finished product.

SECTION 00 24 00
SCOPES OF BIDS

6. Note, the Warranty to begin from date of Substantial Completion of the entire project.
7. Bid Item #21, Gymnasium Equipment, shall verify field conditions and measurements prior to installation of gymnasium equipment.
8. Bid Item #21, Gymnasium Equipment, to install equipment only after final product location is cleaned, prepared, and meets the environmental requirements.
9. Bid Item #21, Gymnasium Equipment, shall coordinate all activities and deliveries with Hagerman Project Team on site.
10. Bid Item #21, Gymnasium Equipment, to provide all necessary equipment for receiving of materials, unloading and moving of materials, and protection of surrounding finished work in paths of moving materials.
11. Bid Item #21, Gym Contractor shall protect the work of other's completed work while performing work in that given space. Special consideration must be taken to protect work beneath or overhead; Contractor is expected to provide all necessary equipment, coverings, or protections to ensure their work does not damage or compromise the work in or around his/her work space. Note, Bid Item #21 shall cover and protect the finished gym floor if the fluid applied athletic flooring has been installed prior to the basketball goals with carpet and plywood before running any manlifts over same.
12. Bid Item #21, Gymnasium Equipment, shall coordinate components and work with other Contractors, including but not limited to: Mechanical, Plumbing, Electrical, Fire Protection, Partition Assemblies, Flooring, Concrete, and Structural Steel.
13. Bid Item #21, Gymnasium Equipment, shall furnish and install all components to provide a finish product, such as: fasteners, bolts, bracing, overhead-supports, framing, backstops and backboards, goals and nets, backboard safety pads, mounts/mounting assembly, rim-restraining device, markings, adjusting mechanism, safety devices, retractor devices.
14. Bid Item #21, Gymnasium Equipment, shall be responsible for all equipment, materials, and labor required to attach and secure finished product to existing steel members. Bid Item #21 shall furnish and install all electrical operating machines, including motor, remote-control station(s), limit switch, etc. Note the Final electric connection to be provided by Bid Item #26, Electrical Contractor.
15. Bid Item #21, Gymnasium Equipment shall furnish and install all wall padding in full, including pad/fill, pad covering and fabric, wall safety pads, backer board, mounting accessories and mechanisms, and trim for all flat and corner locations.
16. Bid Item #21, Gymnasium Equipment shall provide color sample selection from full range and physical sample of material for verification of selection. All pads to be covered by fabric from one batch to ensure color matching.
17. Note: Bid Item #26 Electrical Contractor shall furnish and install one (1) scoreboard per Section 116623 1.02, A, 3 and 2.05, and shall furnish and install all accessories and

**SECTION 00 24 00
SCOPES OF BIDS**

components to provide a fully-functioning completed product, including but not limited to: control console, mounting hardware, control console and carrying case, supports, chains, castings and hangers, anchors, fasteners, fittings, hardware, and grout associated with said work. also as noted PE4 on A900 Equipment Schedule and A901B and A902B.

18. Bid Item #21 Gym Contractor shall remove all labels and stickers and final clean all products you furnish and install at the time of installation.
19. Bid Item #21, Gymnasium Equipment, shall be responsible for cleaning, touch-up, and final adjustments shall be made for associated work. Any damages or non-functioning equipment that does not meet specification standards shall be the responsibility of Bid Item #21 to repair and/or replace to meet specifications at no additional cost.
20. Bid Item #21, Gymnasium Equipment, shall furnish and install and be responsible for drawing markings labeled "PE2", Gym Wall Crash Pads, (both ends of the gym) and "PE3", Basketball backstop goals, forward folding, height adjusting, electric winch, on A900 – Equipment Schedule and where applicable on all associated drawings where identified. Also refer to A901B and A902B
21. Note, Bid Item #21 Gym Equipment Contract shall furnish and install all additional steel supports required to properly attach and support the basketball goal backstops to the existing building structure. Refer to the Structural drawings for what is being built.
22. Bid Item #21, Gymnasium Equipment shall include a \$500.00 cost for ProCore document management fee in their base bid amount.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 07 THERMAL AND MOISTURE PROTECTION

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| Section | 079200 – Joint Sealers (As Applies to this scope of work) |
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SECTION 00 24 00
SCOPES OF BIDS

DIVISION 11 EQUIPMENT

Section 11 66 23 – Gymnasium Equipment
(Note the scoreboard shall be furnished and installed by the
Bid Item #26 Electrical Contractor)

BID PACKAGE #03 - BID ITEM #22: TELESCOPING STANDS BLEACHERS:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general, this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #22, Telescoping Stands Contractor shall furnish and install the wall attached, electric operated folding telescoping bleachers per Section 126600 and the drawings.
2. Bid Item #22, Telescoping Stands, shall be responsible for and provide the delegated design of said unit provided by Qualified Professional Engineer, and ensure the unit meets the structural performance as required.
3. Bid Item #22, Telescoping Stands shall be responsible for all action submittal documents and information for each individual product, including product data, shop drawings and wiring diagrams, samples, color charts/cards, and assembly/disassembly/storage instructions.
4. Bid Item #22, Telescoping Stands, shall be responsible for all information submittals including coordination drawings, qualification data, certifications, and sample warranty.
5. Bid Item #22, Telescoping Stands, shall be responsible to furnish all close out submittals and activities, including: operation and maintenance data, warranties, and Owner training.
6. Note, the Warranty to begin from date of Substantial Completion of the entire project.

SECTION 00 24 00
SCOPES OF BIDS

7. Bid Item #22, Telescoping Stands, shall verify field conditions and self-performed measurements prior to ordering and installation of bleachers unit(s).
8. Bid Item #22, Telescoping Stands, to install bleachers only after final product location is prepared and meets all requirements for unit's final installation.
9. Bid Item #22, Telescoping Stands, shall coordinate all activities and deliveries with Hagerman Project Team on site.
10. Bid Item #22, Telescoping Stands, to provide all necessary equipment for receiving of materials, unloading and moving of materials, and protection of surrounding finished work in paths of moving materials.
11. Bid Item #22 Telescoping Stands Contractor shall protect the work of other's completed work while performing work in that given space. Special consideration must be taken to protect work beneath and overhead; Contractor is expected to provide all necessary equipment, coverings, or protections to ensure their work does not damage or compromise the work in or around his/her work space.
12. Note, Bid Item #22 Telescoping Stands Contractor shall cover and protect the poured urethane gym floor before starting any work in the Gym.
13. Bid Item #22, Telescoping Stands, shall coordinate components and work with other Contractors, including but not limited to: Electrical and Athletic Floor Contractors for scheduling and performance purposes.
14. Bid Item #22, Telescoping Stands, shall furnish and install all components to provide a finish product, such as: benches (seats and skirts), deck, risers, safety rails, understructure, support columns wheels, fasteners, power unit and controls, steps and stairs, closure panels, and void fillers, and associated seating signage/identification.
15. Bid Item #22, Telescoping Stands, shall be responsible for all equipment, materials, and labor required to attach and secure product to existing structural member. Bid Item #22 shall provide all electrical components (with the exception of the transformer) associated with the telescoping stands. Final electric connection to be provided by Bid Item #26, Electrical Contractor.
16. Bid Item #22, Telescoping Stands shall provide color sample selection from full range and physical sample of material for verification of selection.
17. It shall be the responsibility of Bid Item #22, Telescoping Stands installer to examine and evaluate the surface of unit planned-location prior to installation of unit. Any unsatisfactory condition of surface must be reported to the Hagerman Project Team immediately and prior to installation of bleacher unit(s). Installation may commence once any/all unsatisfactory conditions have been corrected by responsible entity.
18. Bid Item #22, Telescoping Stands, shall be responsible for final cleaning, touch-up, and final adjustments to be made for associated work. Any damages or non-functioning

**SECTION 00 24 00
SCOPES OF BIDS**

equipment that does not meet specification standards shall be the responsibility of Bid Item #22 to repair and/or replace to meet specifications.

19. Bid Item #22, Telescoping Stands, shall be responsible for drawing markings labeled "PE1" on A900 – Equipment Schedule and where applicable on all associated drawings where identified and for Keyed Plan Notes 6 on drawing A201B.
20. Bid Item #22, Telescoping Standing Contractor shall furnish and install the required ADA wheel chair spaces per note A900.
21. Bid Item #22, Telescoping Stand shall include a \$500.00 cost for ProCore document management fee in their base bid amount.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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|---------|-----------------------|
| Section | All Sections Included |
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DIVISION 07 THERMAL AND MOISTURE PROTECTION

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| Section | 079200 – Joint Sealers (As Applies to this scope of work) |
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DIVISION 11 EQUIPMENT

| | |
|---------|-------------------------------|
| Section | 12 66 00 – Telescoping Stands |
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BID PACKAGE #03 - BID ITEM #23 ELEVATOR WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

SECTION 00 24 00
SCOPES OF BIDS

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #23, Elevator Contractor shall furnish and install the elevator complete per Section 142400 and the drawings.
2. Bid Item #23, Elevator Contractor shall furnish and install the elevator pit ladder.
3. Bid Item #23, Elevator Contractor shall furnish and install the Fireman's Key Box.
4. Please note the steel contractor will furnish and install a steel hoisting beam.
5. Bid Item #23, Elevator Contractor to provide detailed shop drawings and operating manuals.
6. Bid Item #23, Elevator to coordinate the fire alarm and phone line to the Elevator with the Electrical Contractor.
7. Bid Item #23 Elevator shall furnish and install a phone in the elevator cab as required by code.
8. Bid Item #23, Elevator shall furnish the Elevator as shown on A201C, and the specs.
9. Bid Item #23, Elevator shall provide the warranty for 12 months after the date of the entire project substantial completion per 142400, 3.06 Maintenance.
10. Bid Item #23, Elevator to provide cab protection hooks and one set of cab protection blankets as part of the base bid.
11. Note, the final finished elevator cab flooring will be installed by the flooring contractor, make sure the elevator cab floor is coordinate for finished floor materials.
12. Bid Item #23 Elevator shall furnish the rail support inserts to the Bid Item #08 Masonry Contractor to install in the cmu elevator shaft wall, provide a layout shop drawing.
13. Bid Item #23 Elevator to review drawings A424 for more elevator information.
14. Bid Item #23 Elevator shall furnish and install the elevator door sills, (advise the Concrete Contractor if any blockouts need to be made), and furnish and install the metal shroud like shown on 6/A424.
15. Bid Item #23 Elevator to provide elevator pit depth, width and height dimensions with your bid for the elevator that you bid.
16. Bid Item #23 Elevator Contractor to coordinate the electrical power requirements with the Electrical Contractor.

**SECTION 00 24 00
SCOPES OF BIDS**

17. Bid Item #23 Elevator Contractor should know the Elevator is to be tied to the building emergency generator
18. Bid Item #23 Elevator Contractor to specify a holed single piston elevator or a holeless dual jack hydraulic passenger / service elevator on the bid form as to what your bid includes. See the alternates on the bid form.
19. Bid Item #23 Elevator Contractor is welcome to provide an Alternate Bid for the Elevator Traction Elevator per Section 142100.
20. Bid Item #23, Elevator shall include a \$500.00 cost for ProCore document management fee in their base bid amount.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 01 GENERAL REQUIREMENTS

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| Section | All Sections Included |
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DIVISION 07 THERMAL AND MOISTURE PROTECTION

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| Section | 079200 – Joint Sealers (As Applies to this scope of work) |
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DIVISION 14 CONVEYING EQUIPMENT

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| Section | 142100 Electric Traction Elevator (Alternate Bid) |
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| Section | 142400 Hydraulic Elevators |
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BID PACKAGE #03 - BID ITEM #24 FIRE PROTECTION WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

SECTION 00 24 00
SCOPES OF BIDS

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #24, Fire Protection Contractor shall design, obtain all required permits, and furnish and install a complete working fire protection system, including testing and warranty.
2. Bid Item #24, Fire Protection Contractor shall make all design drawings, calculations etc., and submit to both the State of Indiana and Local Agencies and include all fees associated with same in your bid.
3. Bid Item #24, Fire Protection shall prepare Cadd drawings and BIM drawings as part of the underground, in wall and overhead coordinated of the MEP Systems. Attend meetings to coordinate this work during the project. Make sure proper elevations and clearances are maintained for the other work items.
4. Bid Item #24, Fire Protection shall include (furnish and install) the wire guards on all fire sprinkler heads in all exposed ceiling areas, including the Gymnasium, all MEP Rooms, and all room that do not have a finished ceiling.
5. Bid Item #24, Fire Protection shall furnish and install all fire stopping to all floor and wall penetrations associated with the fire protection piping and system.
6. Bid Item #24, Fire Protection shall include the underground layout of the incoming water room for all plumbing and mechanical items. Provide dimensions from the face of wall and column lines. Please note, in the previously bid, Bid Package #01, Bid Item #01, Site Excavation and Site Utility Work, the successful contractor Millennium is required to install the domestic water line and the fire main, and the fire department connection to inside the Mechanical Room B113 and stub up 12" above the floor with a flange. Millennium is required to flush and the said lines as well. With that said, Bid Item #24 Fire Protection will be required and responsible to remove the flanges and take fire main and fdc line from this point into the building. We need Bid Item #24 to provide a coordinated, dimensioned, approved drawing for Millennium to use for rough of the underground lines so they get installed in the exact correct location.
7. Bid Item #24, Fire Protection Contractor shall furnish and install sleeves and seals for the fire protection lines.
8. Bid Item #24, Fire Protection Contractor shall furnish and install escutcheons as needed for fire protection lines.
9. Bid Item #24, Fire Protection Contractor shall furnish and install hangers and supports

SECTION 00 24 00
SCOPES OF BIDS

for fire protection lines.

10. Bid Item #24, Fire Protection Contractor shall furnish and install Siesmic Controls for fire protection work as called for on the drawings and specs.
11. Bid Item #24, Fire Protection Contractor shall furnish and install identification for fire protection piping and devices.
12. Bid Item #24, Fire Protection Contractor shall furnish and install dry sprinkler heads in the walk in kitchen cooler and freezer.
13. Bid Item #24, Fire Protection Contractor shall furnish and install a sprinkler head in the elevator machine room and the elevator shaft.
14. Bid Item #24 Fire Protection Contractor shall provide PE stamped design drawings with calculations to the Owners Insurance Agent for Factory Mutual review prior to installation.
15. Bid Item #24, Fire Protection Contractor shall be responsible for any damages due to fire protection leaks.
16. Bid Item #24, Fire Protection Contractor shall be responsible for any openings in existing floors, wall or roofing as required for this work.
17. Bid Item #24, Fire Protection Contractor shall furnish and install joint sealants and firestopping for any pipe or item this system needs through floors, walls and roofing.
18. Bid Item #24, Fire Protection Contractor shall furnish and install access doors as required for any valve or item that needs access where an access door is not already shown on the drawings.
19. Bid Item #24 Fire Protection Contractor shall furnish and install all tagging, signs and identification for items associated with this work.
20. Bid Item #24 Fire Protection shall make sure the pipe materials used is approved by the City of Fishers Fire Department.
21. Bid Item #24 Fire Protection Contractor shall coordinate the location of sprinkler heads in all ceilings and bulkheads with other trades.
22. Bid Item #24 Fire Protection shall be responsible and include the Common Work Results for Fire Protection Work per specs.
23. Bid Item #24 Fire Protection shall furnish and install the Sleeves and Seals for Fire Protection Piping per specs and the drawings.
24. Bid Item #24 Fire Protection shall furnish and install the Escutcheons for Fire Protection Work per specs and the drawings.
25. Bid Item #24 Fire Protection shall furnish and install the Hangers and Supports for Fire Suppression Piping and Equipment per specs the drawings.

SECTION 00 24 00
SCOPES OF BIDS

26. Bid Item #24 Fire Protection shall furnish and install the Seismic Controls for Fire Protection Systems per specs and the drawings.
27. Bid Item #24 Fire Protection shall furnish and install the Identification for fire suppression piping and equipment per specs and the drawings.
28. Bid Item #24 Fire Protection shall furnish and install the Fire Protection Systems – Wet Pipe per specs and the drawings.
29. Note: Bid Item #01, shall furnish and install the 6" FDC Line, the 6" Fire Service Line and the 4" Domestic Water Line into the building, under or through the foundation system, into Mechanical Room and stub 12" above the finished floor and install flange and test etc before turning over the lines to the Bid Item #24 Fire Protection Contractor. Bid Item #24 Fire Protection Contractor shall make a detailed dimensioned drawing of the Mech Room and locate all underground items for Bid Item #01 to work from. Refer to Drawing C502.
30. Bid Item #24 Fire Protection shall take the FDC and Fire Service Line from the flange 12" above the floor and install the Fire Protection System complete including RPZ-2, including backflow preventer, valves, hangers, piping, equipment, accessories and trim per plans, specifications and applicable codes.
31. Bid Item #24 Fire Protection shall refer to and include work inside the building and above the floor and shall coordinate with drawing F001.
32. Bid Item #24 Fire Protection shall be responsible for Fire Suppression Design Notes: "A thru I" as indicated on the drawing F001.
33. Bid Item #24 Fire Protection shall be responsible for Fire Protection Key Notes: "1, 2, 3, 4, 5, and 6", as indicated on the drawings F201.
34. Bid Item #24 Fire Protection shall be responsible for all Pipe Supports required by this scope.
35. Bid Item #24 Fire Protection shall be responsible to prepare and submit Engineering Drawings and calculations to obtain a State of Indiana Permit and any local permits required. This includes all fees
36. Bid Item #24 Fire Protection shall be responsible to submit complete fire protection shop drawings and calculations to the Architect/Engineer for review before submission to the State of Indiana for approval. Submit approved copies bearing stamp and/or signature of Agency having jurisdiction, Owner's Insurance Underwriter and Owner's Fire Protection Engineer for approval to Architect/Engineer before proceeding with work.
37. Bid Item #24 Fire Protection shall be responsible to furnish and install all sleeves at all wall, floor, ceiling and/or roof penetrations required for this scope.
38. Bid Item #24 Fire Protection shall be responsible to furnish and install all misc. steel or

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metal supports and hangers as required to install fire protection piping.

39. Bid Item #24 Fire Protection shall be responsible for any and all damages to finishes due to sprinkler system leaks
40. Bid Item #24 Fire Protection shall be responsible to provide exact locational and dimensional information for housekeeping pads, concrete equipment bases, and concrete curbs shown on the drawings to Bid Item No. 09 General Trades for Bid Item No.09 to furnish and install the concrete work. If there is any.
41. Bid Item #12 Metal Stud Drywall and Ceiling Contractor shall install all frames, and sleeves, and openings (furnished/required by other Bid Items) that are to be installed in new drywall systems per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the frames and openings.
42. Bid Item #08 Masonry shall install all frames, sleeves, and openings (furnished/required by other Bid Items) that are to be installed in new masonry per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the frames and openings.
43. Bid Item #08 Masonry shall install all sleeves and embeds furnished by other Bid Items that are to be installed in new masonry per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the sleeves and embeds.
44. Bid Item #12 Metal Stud Drywall and Ceiling Contractor shall install all sleeves (furnished by other Bid Items) that are to be installed in new drywall walls per plans and specifications. The sleeve must be slid over the plumbing and mechanical pipe and in the general area of the wall. Bid Item #12 Drywall will align the sleeve in the drywall wall. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the sleeves.
45. Bid Item #24 Fire Protection shall be responsible for any new openings in existing walls, floors and roofing required for this scope of work
46. Bid Item #24 Fire Protection shall furnish and install joint sealants as required for any items furnished and/or installed by this scope per Specification Section 079200.
47. Bid Item #24 Fire Protection shall furnish and install all access doors as required for access to items furnished and/or installed by this scope of work that are not already shown on the plans. Refer to Specifications for products.
48. Bid Item #24 Fire Protection shall provide all Fire Protection tagging / identification as

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required per Specifications.

49. Bid Item #24 Fire Protection shall coordinate the location of sprinkler heads in all ceilings and bulkheads with all trades and per contract documents.
50. Bid Item #24 Fire Protection shall be responsible to clean any and all mill scale, mud, dirt, residue, grease, loose rust, cutting oil and debris that is a direct result of this scope of work, off of all of the sprinkler pipes and concrete floors. Cover and protect the floor, these are exposed concrete floors mainly.
51. Bid Item #24 Fire Protection shall provide a "containment box" for the machine to set in, during field fabrication and installation, to catch all cutting and threading oils from getting onto the concrete floors or any finished flooring. This shall have an oil absorbent material and will be required to be changed out regularly.
52. Bid Item #24 Fire Protection shall be responsible for performing testing per NFPA 13 and specifications. See specifications.
53. Bid Item #24 Fire Protection shall be responsible to install sprinkler heads per specifications and center heads in ceiling tile.
54. Bid Item #24 Fire Protection shall schedule and coordinate all system tests/inspections with State, City and/or The Owner Officials as required to receive building occupancy permit upon building completion. Bid Item #24 shall conduct the tests Flow and Pressure, etc.
55. Bid Item #24 Fire Protection shall review all of the Architectural Drawings and coordinate with all ceilings, bulkheads, hvac ductwork, plumbing piping, mechanical piping, equipment, and the Equipment, etc. for a complete fire sprinkler system.
56. Bid Item #24 Fire Protection shall be responsible to provide overlay CADD coordination drawings and participate in the MEP coordination meetings as scheduled by Hagerman Inc. Coordinate with all other trades. Obtain MEP signoff on the sprinkler routing prior to any installation.
57. Bid Item #09 General Trades shall furnish and install all concrete housekeeping pads, equipment pads and concrete curbs shown or indicated on the DRAWINGS, including the MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. The Bid Item requiring the pads or curbs shall provide layout information to Bid Item #09 General Trades. If a housekeeping pad, equipment pad or concrete curb is required, but not shown or indicated, it will be the responsibility of the Contractor requiring the pad to provide.
58. Temporary IOSHA Building Lighting: Bid Item #16 Electrical shall furnish, install, maintain, and remove a temporary lighting system throughout the building that conforms to IOSHA standards for temporary lighting. Any "Task Specific" lighting required shall be by the Bid Item requiring the lighting.
59. Bid Item #24 Fire Protection contractor shall furnish and install wire guards on exposed sprinkler heads in mechanical rooms in locations needed to prevent heads

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from being hit.

- 60. Bid Item #24 Fire Protection shall make safe the Fire Protection system during construction.
- 61. Bid Item #24 Fire Protection shall furnish and install all fire stopping in walls, floors, ceilings, roof etc. for any pipe work or system work this contractor installs. Refer to Spec Section 078413 and 078446 as may be required by this scope of work.
- 62. Bid Item #24 Fire Protection Contractor shall furnish and install the Penetration Firestopping per Section 078413 and the drawings including penetrations and fire safing for everything on the project this contractor furnishes and or installs. The Respective MEP Contractor shall furnish and install their own firestopping for their work items. Include firestopping in your base bid.
- 63. Bid Item #24 Fire Protection shall include an allowance in the amount of \$500 in their bid for the procore management software fees.

- 64. Refer to Section For Bid Alternates
- 65. Refer to Section for Bid Allowances.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION 07 THERMAL AND MOISTURE PROTECTION

Section 078413 – Penetration Fire Stopping.
(As Applies to this scope of work)
Section 078416 – Fire Resistive Joint Systems
(As Applies to this scope of work)
Section 079200 – Joint Sealers
(As Applies to this scope of work)

DIVISION 21 FIRE SUPPRESSION

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| | |
|--------------------|---|
| Section 21 05 01 | Basic Fire Suppression Requirements |
| Section 21 05 02 | Agreement and Waiver for Use Of Electronic Files (Fp) |
| Section 21 05 02 A | Electronic Files – Heavy Release Form To Contractors. |
| Section 21 05 04 | Basic Fire Suppression Materials and Methods |
| Section 21 05 05 | Firestopping (Fp) |
| Section 21 05 07 | Piping Materials and Methods for Fire Suppression |
| Section 21 05 13 | Electrical Requirements for Fire Suppression Equipment |
| Section 21 05 19 | Meters and Gages for Fire Suppression Systems |
| Section 21 05 29 | Hangers and Supports for Fire Suppression Piping and Equipment |
| Section 21 05 53 | Identification for Fire Suppression Piping and Equipment |
| Section 21 13 12 | Fire Suppression Piping |
| Section 21 13 13 | FIRE SUPPRESSION SPRINKLER SYSTEM |

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BID PACKAGE #03 - BID ITEM #25 PLUMBING, MECHANICAL, HVAC DUCTWORK, AND TEMPERATURE CONTROLS WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #25 Mechanical Contractor shall furnish and install all Plumbing Work, All Mechanical Piping Work, All HVAC Ductwork, All Air and Water Test and Balance and all TC Controls complete for the project.
2. If Bid Item #25 Mechanical Contractor needs a concrete housekeeping pad or concrete base for any equipment, just let Hagerman know and Bid Item #09 General Trades will furnish and install said concrete bases.
3. Bid Item #25 Mechanical Contractor shall include the Grantham Company Proposal Dated 01/29/2018 in the amount of \$308,800.00 and include the Voluntary Alternate for the VFD's in the amount of \$21,800.00 for a total amount to include in your base bid in the amount of **\$330,600.00**. Bid Item #25 Mechanical will carry the Grantham Company as your sub to this Bid Item #25. Bid Item #25 shall plan, coordinate and oversee this Temperature Controls. Please kindly coordinate everything that is either included or excluded to make a final complete product as applies to all of your Mechanical work.

Note: Bid Item #26 Electrical to furnish and install the underground conduit note #5 in the attached Grantham Proposal Dated 01/19/2018 to the remote condensing units and chillers.

4. Bid Item #25, Mechanical Contractor shall furnish and install the Architectural Fixed wall Louvers per Section 089119 and the drawings. Refer to Note 15 on A304 for example.

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5. Bid Item #25, Mechanical Contractor shall furnish and install the Architectural Fixed wall Louvers like shown on 2/A401, 8/A410, 9/A410, and like per Note 15 on A301, A302, A303, and A304.
6. Bid Item #25, Mechanical Contractor shall be responsible and furnish and install the work per the Keyed Plan Notes 9 and 14 on A201A and the other similar drawings.
7. Bid Item #25, Mechanical Contractor shall be responsible to furnish and install all work per the General Roof Notes, F, on A103 and the other drawings. Make sure Plumbing vents and Mechanical pipes are tall enough on the roof.
8. Bid Item #25 Mechanical Contractor shall furnish and install the Penetration Firestopping per Section 078413 and the drawings including penetrations and fire safing for everything on the project that you furnish and or install. The Respective MEP Contractors shall furnish and install their own firestopping for their work items. Include this firestopping work in your base bid.
9. Bid Item #25 Mechanical Contractor shall furnish and install all joint sealants required for any item this scope furnishes and or installs. This includes the plumbing fixtures for example.
10. Bid Item #25 Mechanical Contractor shall furnish and install all plumbing work for the entire project including all work shown on the "P" set of drawings and the respective associated specifications sections.
11. This includes the underground plumbing work, including layout, confirm pipe sizes and confirm inverts all before the concrete slab on grade gets poured.
12. Coordinate with the foundation contractor for foundation steel sleeve inverts and locations.
13. Bid Item #25 Mechanical Contractor shall furnish and install the plumbing roof drains, overflow drains, insulate the bottom of the roof sump pan drains, and run all pipes through the metal decking before roofing gets installed.
14. Bid Item #25 Mechanical Contractor shall furnish and install the plumbing rough ins and final connections for the Food Service Kitchen Equipment. Refer to P600 and Section 114000.
15. Bid Item #25 Mechanical Contractor shall furnish and install "all" of the Kitchen – Food Service Equipment floor drains and "floor sump drains".
16. Bid Item #25 Mechanical Contractor shall furnish and install all sinks, drinking fountains, and plumbing fixtures complete included caulked to the walls as needed.
17. Bid Item #25 Mechanical Contractor shall furnish and install the "Gang" Solid Surface Sinks that go in the Restroom Areas. Refer to "SS1" on A800 the Finish Schedule and Item B1 on P701.
18. Bid Item #25 Mechanical Contractor shall furnish and install all of the Plumbing Fixtures as noted on the schedule on P701.

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19. Bid Item #25 Mechanical Contractor shall furnish and install the Plumbing Equipment Per P701.
20. Bid Item #25 Mechanical Contractor shall furnish and install the Plumbing Drains per P701 including the floor sumps for the Food Service Equipment.
21. Note, The MEP Contractors shall make respective Kitchen Equipment rough ins and final connections.
22. Bid Item #25 Mechanical Contractor shall furnish and install the HVAC Ductwork including grills, diffusers, and return air complete.
23. Bid Item #25 Mechanical Contractor shall furnish and install and provide all temporary covers over all ductwork while on site and after installation to keep the inside clean.
24. Bid Item #25 Mechanical Contractor shall furnish and install temporary filter media as needed to keep the ductwork clean.
25. Bid Item #25 Mechanical Contractor shall furnish and install and provide all air and water test and balancing.
26. Bid Item #25 Mechanical Contractor shall furnish and install any “inertia base concrete work” that is not considered a concrete housekeeping pad and is not shown on the drawings.
27. Bid Item #25 Mechanical Contractor shall furnish and install the ATC system.
28. Bid Item #25 Mechanical Contractor shall furnish and install all equipment as shown on M701 and M702.
29. Bid Item #25 Mechanical, shall be responsible to furnish and install all plumbing, mechanical, hvac ductwork, test and balance and control work.
30. Bid Item #25 Mechanical shall be responsible to furnish and install all excavation work, engineered backfill materials, and haul all spoils off site for all underground plumbing work for this project.
31. Bid Item #25 Mechanical shall be responsible to furnish and install all Plumbing work per the “P” drawings, notes on drawings and specifications sections.
32. Bid Item #25 Mechanical shall furnish and install the roof drains, overflow drains, and plumbing vents.
33. Bid Item #25 Mechanical shall furnish and install the thermostatic mixing valves per the drawings and specs.
34. Bid Item #25 Mechanical shall furnish and install the backflow preventer for the domestic water system.
35. Bid Item #25 Mechanical shall furnish and install the roof drains and coordinate to the metal deck and roof insulation systems and roofing systems.
36. Bid Item #25 Mechanical shall furnish and install all Joint Sealants per spec Section 079200 for this bid item scope of work per plans and specs.

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37. Bid Item #25 Mechanical shall provide all underground excavation, trenching, backfilling, engineered fill, compaction work and haul spoils off site for this scope of work. This includes the excavation for all underground plumbing work.
38. Note, Bid Item #01 Site Excavation and Utility Contractor shall furnish and install the 6" FDC Line, the 6" Fire Service Line and the 4" Domestic Water Line into the building, under or through the foundation system, into Mechanical Room #B120 and stub 12" above the finished floor and install flange and test etc. before turning over the lines to the Bid Item #25 Mechanical Contractor whom shall take the Domestic Water Line from this point.
39. Bid Item #01 Site Excavation and Utility Contractor and Bid Item #02 Site Sanitary Contractor shall furnish and install the Sanitary Sewer and Storm Drain Lines to the "outside face" of the building. Bid Item #25 Mechanical Contractor shall run the sanitary sewer and storm lines from inside the building to the outside face of the building and connect or tie into the site sewer and storm lines. Coordinate this work on site.
40. Bid Item #25 Mechanical shall furnish and install all roof curbs and rails for any and all Mechanical Equipment.
41. Bid Item #25 Mechanical shall be responsible to furnish and install all cleanouts to all sanitary lines per applicable codes and specifications.
42. Bid Item #25 Mechanical shall be responsible to furnish and install natural gas piping per the contract documents. Please note there is a bid alternate that calls for a natural gas emergency generator vs a diesel fuel emergency generator. Refer to P201B for this bid alternate gas piping work. Include same on your bid form.
43. Bid Item #25 Mechanical shall furnish and install the Water Heaters.
44. Bid Item #25 Mechanical shall furnish, install, maintain, and provide all dewatering for all work included in this scope of work.
45. Bid Item #25 Mechanical shall coordinate the exact heights of all floor drains and cleanout with the specified floor finishes prior to and during the placement of the concrete. Also, coordinate how the concrete is finished around each of these items (i.e.: how much slope is required for the floor drains or if everything is planned to be flat). Advise Bid Item #Concrete Contractor prior to the concrete placement. Bid Item #25 Mechanical shall cover all floor drains and cleanout for the concrete placements. Bid Item #25 Mechanical shall remove all temporary coverings toward the end of the project and clean the respective items in the finished floors.
46. Bid Item #25 Mechanical shall provide and approved antifreeze to keep all floor drains and cleanouts from freezing as required.
47. Bid Item #25 Mechanical shall furnish and install all joints sealants per section 07 92 00 for all plumbing fixtures and for any item installed by this scope of work as needed

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to trim out and make complete a product and/or system.

48. Bid Item #25 Mechanical shall provide all sleeves for mechanical piping and plumbing at walls, floors, ceilings, roof, etc. as required. Responsible for layout and coordination with the appropriate Bid Items.
49. Bid Item #25 Mechanical shall review the Architectural drawings and specs for coordination to the other equipment on the project.
50. Bid Item #25 Mechanical shall furnish and install all Mechanical and Plumbing insulation per the contract documents.
51. Bid Item #25 Mechanical shall furnish and install the rated fire barrier penetrations required by this scope.
52. Bid Item #25 Mechanical shall provide the "Testing and Balance" work for the project per specs. This includes the air and water balance work.
53. Bid Item #25 Mechanical shall be responsible for the internal wiring of all equipment furnished by this Bid Item. Examples would be AHU's
54. Bid Item #25 Mechanical shall furnish and install all vibration controls (seismic restraints). Refer to Plans and Specification.
55. Bid Item #25 Mechanical shall furnish and install all concrete fill for the inertia bases required for mechanical and plumbing equipment provided by this scope. Refer to plans and specifications and your equipment cut sheets.
56. Bid Item #25 Mechanical shall be responsible to provide exact locational and dimensional information for housekeeping pads, concrete equipment bases, and concrete curbs shown on the drawings to Bid Item #09 General Trades.
57. Bid Item #09 General Trades shall furnish and install all concrete housekeeping pads, equipment pads and concrete curbs shown or indicated on the DRAWINGS, including the MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. The Bid Item requiring the pads or curbs shall provide layout information to Bid Item #09 General Trades. If a housekeeping pad, equipment pad or concrete curb is required but not shown or indicated, it will be the responsibility of the Contractor requiring the pad to provide.
58. Bid Item #25 Mechanical shall coordinate all structural openings required by this scope with Bid Item #04 Structural Steel Work. Bid Item #25 Mechanical will be required to cut the metal deck openings at the time of your installations as the steel contractor will be required to deck over these for safety at the time of steel erection.
59. Bid Item #09 General Trades shall furnish and install all wood blocking shown on the plans. If additional wood blocking is required, and not shown on the plans and required by this scope of work, then it is the responsibility of Bid Item#25 Mechanical to furnish and install. Bid Item #25 Mechanical is responsible for all alternate attachment methods required if blocking is not properly coordinated.
60. Bid Item #25 Mechanical shall furnish and install any access door required for access

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to items furnished and/or installed under this scope not shown/indicated on the Architectural Drawings. Bid Item #12 shall furnish any access door indicated on the Architectural Drawings. Refer to Specification Section 083113.

61. Bid Item #25 Mechanical shall provide all engineering and layout for this scope of work.
62. Bid Item #25 Mechanical shall coordinate with all other trades for the routing and installation of any item in this scope of work.
63. Bid Item #25 Mechanical shall furnish and install all roof curbs for any equipment provided by this scope. Coordinate installations with Bid Item #10 Roofing.
64. Bid Item #25 Mechanical shall provide any and all labor and piping required for the temporary heating and/or cooling equipment for the project.

Temporary Heating / Cooling:

- Provide any labor, piping, valves and temporary heating equipment and plan to connect to the building natural gas supply. This shall include equipment to keep the building to at least 65 degrees heating in the winter with the understanding the actual natural gas fuel will be paid for by the Owner.
 - Provide temporary air conditioning units to keep the building to 75 degrees with low humidity for other trades with the understanding the actual electric energy will be paid for by the Owner.
65. Bid Item #25 Mechanical shall provide any and all labor and piping and equipment required for the temporary heating and/or cooling equipment for the project.
 66. Bid Item #25 Mechanical shall be responsible to provide misc. steel supports for this scope of work as required.
 67. Bid Item #25 Mechanical shall be responsible to provide all Plumbing and Mechanical tagging/identification as specified and as required.
 68. Bid Item #25 Mechanical shall be responsible to coordinate the size of all materials and equipment, provided by this scope of work, for access into the building to keep the overall project on schedule.
 69. Bid Item #25 Mechanical shall be responsible to final connect all Owner supplied equipment, per this scope of work, as shown on any of the design discipline plans and as called for in the specifications. See the Architectural Design sets as well. Coordinate with the Owner for the final connections of all Owner-furnished equipment. Refer to A900 for items like washers and dryers etc.
 70. Bid Item #25 Mechanical shall be responsible for the hydro-testing per specifications, codes and regulations. Bid Item #25 Mechanical shall perform all flushing of all systems. Submit written documentation.
 71. Bid Item #25 Mechanical shall clean the strainers in front of all pumps after the start up

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is completed.

72. Bid Item #08 Masonry shall install all sleeves and embeds furnished by other Bid Items that are to be installed in new masonry per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the sleeves and embeds.
73. Bid Item #12 Metal Stud and Drywall Systems and Acoustical Ceilings shall install all sleeves (furnished by other Bid Items) that are to be installed in new drywall walls per plans and specifications. The sleeve must be slid over the plumbing and mechanical pipe and in the general area of the wall. Bid Item #12 Drywall will align the sleeve in the drywall wall. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the sleeves.
74. Bid Item #12 Metal Studs and Drywall Systems and Acoustical Ceilings shall install all frames and openings (furnished/required by other Bid Items) that are to be installed in new drywall systems per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the frames and openings.
75. Bid Item #08 Masonry shall install all frames and openings (furnished/required by other Bid Items) that are to be installed in new masonry per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the frames and openings.
76. Bid Item #25 Mechanical shall provide a "containment box" for the cutting, grooving and thread machine to set in, during field fabrication and installation, to catch all cutting and threading oils from getting onto the concrete floors or any finished flooring. This shall have an oil absorbent material and will be required to be changed out regularly.
77. Bid Item #25 Mechanical shall be responsible to coordinate size and locations of all Mechanical and Plumbing roof penetrations with Bid Item #10 Roofing Contractor and Bid Item #04 Structure Steel. If a Bid Item fails to coordinate a required opening then the subcontractor requiring the opening will be responsible to furnish and install any required framing.
78. Bid Item #25 Mechanical shall be responsible to provide overlay CADD coordination drawings and participate in the MEP coordination meetings as scheduled by Hagerman Inc. Bid Item #25 Mechanical shall prepare and submit Coordination drawings in the CADD format for the plumbing piping and mechanical piping and HVAC ductwork items
79. Bid Item #25 Mechanical shall prepare and submit shop drawings for the plumbing, and mechanical piping for review and approval of the Designer of Record.
80. Bid Item #25 Mechanical shall coordinate all deliveries with construction manager.

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81. Bid Item #25 Mechanical shall coordinate all of their work above, in and through ceilings with the Architectural Reflected Ceiling plans and specifications.
82. Bid Item #25 Mechanical shall provide all hoisting, rigging, cranes, spreader bars, and other equipment necessary for this scope of work. All rigging shall comply with IOSHA/OSHA regulations. A detailed written "Lift Plan" shall be submitted, for review, to the Construction Manager a minimum of 10 working days before any lift. This plan shall contain, but shall not be limited to:
- Physical Size of Objects to be lifted
 - Weight of individual lifts
 - Certification of rigging to be used
 - Proposed Staging locations of all Delivery Vehicles
 - Lift Sequence
 - How the lifting area is to be secured
 - Type of Crane (Include percentage of capacity of lifting equipment for the heaviest lift)
 - Proposed location of all equipment required for the lift.
83. Temporary IOSHA Building Lighting: Bid Item #26 Electrical shall furnish, install, maintain, and remove a temporary lighting system throughout the building that conforms to IOSHA standards for temporary lighting. Any "Task Specific" lighting required shall be by the Bid Item requiring the lighting.
84. The exact wiring requirements for some equipment cannot be determined until the systems have been purchased and submittals approved. Therefore, only known wiring, conduits, raceways and electrical power related to such items is shown on the drawings. All wiring, conduits, raceways, junction boxes and electrical power not shown on the electrical drawings but required for Mechanical, Plumbing, Environment Control Systems, and Technology systems is the responsibility of the Bid Item responsible for that system.
85. Bid Item #25 Mechanical shall furnish and install all HVAC control wiring.
86. Bid Item #25 Mechanical sub the Temperature Control subcontractor shall be responsible for location and quantity of transformers for 24 volt control components and furnish and install same.
87. Bid Item #25 Mechanical shall procure and provide and comply with all local permits as required for this scope of work. This Bid Item shall schedule all system inspections required by the local City, County, State, or Federal officials for the work included in this scope of work. This Bid Item is responsible to schedule these inspections so as not to delay the project schedule.
88. Bid Item #25 Mechanical shall procure and pay for all required plumbing, mechanical and hvac permits for this project.
89. Bid Item #25 Mechanical shall include an allowance in the amount of \$500 in their bid for the procore management software fees.

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90. Refer to Section For Bid Alternates

91. Refer to Section for Bid Allowances.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION 07 CAULKING

Section 078413 – Penetration Fire Stopping
(As applies to this scope of work)
Section 078446 – Fire Resistive Joint Systems
(As applies to this scope of work)
Section 079200 – Joint Sealants
(As applies to this scope of work)

DIVISION EQUIPMENT

Section 114000 – Food Service Equipment
(As applies to this scope of work)

DIVISION 22 PLUMBING

22 05 01 – Basic Plumbing Requirements
22 05 02 – Agreement and Waiver for the Use of Electronic Files
22 05 02 A – Electronic Files – Heapy Release Form to Contractors
22 05 04 – Basic Plumbing Materials and Methods
22 05 05 – Firestopping
22 05 07 – Piping Materials and Methods
22 05 13 – Electrical Requirements for Plumbing Equipment
22 05 19 – Meters and Gauges for Plumbing Piping
22 05 23 – General Duty Valves for Plumbing Piping
22 05 29 – Hangers and Supports for Plumbing Piping
22 05 30 – Bases and Supports for Plumbing Equipment
22 05 53 – Identification of Plumbing Piping and Equipment

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22 07 19 – Plumbing Piping Insulation
22 10 12 – Interior Gas Piping
22 11 16 – Interior Domestic Water Piping
22 11 19 – Interior Domestic Water Piping Specialties
22 13 16 – Interior Drainage and Vent Systems
22 13 19 – Drainage Systems Specialties
22 31 00 – Domestic Water Softeners
22 33 00 – Domestic Water Heaters – High Efficiency – Condensing
22 42 00 – Plumbing Fixtures

DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING

23 05 01 – Basic HVAC Requirements
23 05 02 – Agreement and Waiver for Use of Electronic Files
23 05 02A – Electronic Files - Heavy Release Form to Contractors
23 05 04 – Basic HVAC Materials and Methods
23 05 05 – Firestopping
23 05 07 – Piping Materials and Methods
23 05 13 – Electrical Requirements for HVAC Equipment
23 05 14 – Adjustable Frequency Motor Controller
23 05 19 – Gauges for HVAC Piping
23 05 23 – General Duty Valves For HVAC Piping
23 05 29 – Hangers and Supports for HVAC Piping
23 05 30 – Bases and Supports for HVAC Equipment
23 05 31 – HVAC Equipment Drives
23 05 49 – Vibration Control For HVAC
23 05 53 – Identification of HVAC Piping and Equipment
23 05 93 – Testing, Adjusting, and Balancing For HVAC
23 07 13 – Duct Insulation
23 07 14 – Fire Barrier Wrap
23 07 16 – HVAC Equipment Insulation
23 07 19 – HVAC Pipe Insulation
23 09 23 – Building Automation System for HVAC
23 09 25 – Instrumentation and Control Devices for HVAC
23 09 47 – Control Power and Wiring for HVAC
23 09 93 – Sequence of Operations for HVAC Controls
23 21 13 – Hydronic Piping
23 21 14 – Expansion Tanks (Pressurized Diaphragm/Bladder)
23 21 23 – Hydronic Pumps
23 23 00 – Refrigerant Piping
23 31 13 – HVAC Ductwork
23 33 00 – Air Duct Accessories
23 34 00 – HVAC Fans
23 34 23 – HVAC Gravity Roof Ventilators

SECTION 00 24 00
SCOPES OF BIDS

23 34 33 – Air Curtain
23 36 16 – Air Terminal Units
23 37 00 – Air Outlets and Inlets
23 41 00 – Air Filters
23 51 17 – Breechings, Chimneys, and Stacks
23 52 20 – Hot Water High Efficiency Condensing Boilers
23 64 20 – Scroll Water Chillers - Split Barrel Air Cooled
23 73 13 – Modular Indoor Air Handling Units
23 81 24 – Ductless Air Conditioning Systems
23 82 23 – Unit Ventilators
23 82 39 – Unit Heaters - Cabinet/Propeller

DIVISION 26 ELECTRICAL

(as applies for coordination)

DIVISION 31 EARTHWORK

(as applies to this scope of work)

Revised Proposal:

grantham company

Thomas L. Grantham Company, Inc.
14016 Britton Park Road
Fishers, Indiana. 46038

Project: Hamilton Southeastern Schools
New Elementary School

Area of Bid: Temperature Controls

to: All Mechanical Contractors

attn: HVAC Estimator

date: 1/29/18

from: Robert Bentley

Mobile: 317-903-8970

Base Bid Price: \$308,800.00

Basic Scope of Work:

- 1, We propose to furnish and install a Temperature Control System. Controls for the following mechanical equipment: Hot Water Plant, Chill Water Plant, Air Handling Units, Vav Boxes with Hot Water Reheat, Unit Ventilators, Fans, FCU-1, GRV's, MS-1-2, AC-1 and Unit Heaters.
- 2, We will provide Submittals (Drawings and Data sheets) prior to starting work and record documentation (Drawings and Operation sheets) at the end of the project.
- 3, The section of the Vav Sequence "Reheat and Heating Control is an abnormal routine we take exception to the following parts as follows:
(Note: Zone controls do not have time functions, time schedules and cannot log override time)
 - a, Discharge Temperature Max setpoint is a fixed value (not 20°F above the space heating set point. A PID (not a time delay) acts to start the reheat flow increasing in heat mode (but only if the supply air changeover is set to indicate "both" hot and cold air ... (defaults to cold air only). Warmup mode does not change the max discharge temperature setpoint, or allow it to increase without the limit.
 - b, CO2 algorithm would normally be by PID and not time delay and steps of increase etc.
- 4, We are including a Modbus RTU Driver (Remote Telemetry Unit) to interface with the Boiler Master Panel. Additionally, either a BACnet IP Driver or a Lon Driver to interface with the Chiller Controls.
- 5, Item's/work provided by others:
Underground conduits to the remote condensing units and Chillers by Division 26 (Electrical Contracto
Control Dampers for Air Handling Units, unit manufacturer provided and factory installed.
- 6, Warranty and Training as described in the Specification.
- 7, **Occupancy Detectors, provided by Division 26, as shown on the Electrical Plans.**
We are including the control wiring from occupancy sensors to the zone controllers.
- 8, **Air Flow Monitoring Stations Deleted.**
- 9, **Room CO2 Sensors downgraded from 69 zones to 35 zones.**
- 10, Control Dampers, One (1) is shown 18" x 4" (Insulated), associated with Exhaust Fan EF-4, M202B
- 11, **Refrigerant Monitor Included.**

Voluntary Alternate:

Variable Frequency Drives, optional add for Eight (8) Variable Frequency Drives, (Mfg. ABB)

Included VFD's are as follows:

Pump P-3 (Secondary Chill Water Pump)

Pump P-4 (Secondary Chill Water Pump)

Pump P-5 (Hot Water Pump)

Pump P-6 (Hot Water Pump)

AHU-1 (Supply Fan)

AHU-2 (Supply Fan)

RF-1 (Return Fan)

RF-2 (Return Fan)

Total Price for Eight (8) Variable Frequency Drives

\$21,800.00

Additional Notes:

- 1, *Field installation work associated with the Unit Ventilators is based on them being "DDC Ready" from the Factory. Having terminals strips and safety devices factory installed, ready to accept the field mounting of the application specific DDC controller.*
- 2, *Enterprise Network Server (23 09 23, page-8, 2.3) We are excluding this device, it already exists and was provided under a previous contract.*
- 3, *Revised proposal based on changes shown in the Mechanical Drawings dated 1/19/2018*

Respectfully Submitted

SECTION 00 24 00
SCOPES OF BIDS

BID PACKAGE #03 - BID ITEM #26 ELECTRICAL, FIRE ALARM, AV AND TECHNOLOGYWORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #26, Electrical Contractor shall furnish and install a complete electrical system for this project.
2. Note Bid Item #26 Electrical to furnish and install the underground conduit per note #5 in the attached Grantham Proposal Dated 01/19/2018 to the remote condensing units and chillers. See copy attached to the Bid Item #25 Mechanical scope of work.
3. Temporary IOSHA Building Lighting: Bid Item #26 Electrical shall furnish, install, maintain, and remove a temporary lighting system throughout the building that conforms to IOSHA standards for temporary lighting. Any "Task Specific" lighting required shall be by the Bid Item requiring the lighting.
4. Bid Item #26, Electrical shall wire up the Coiling Counter Doors per Section 083313 and the drawings. Refer to A502.
5. Bid Item #26, Electrical shall wire up the Grazed Aluminum Sectional Doors per Section 083615 and the drawings. Refer to A502
6. Bid Item #26, Electrical Contractor shall wire up and install the electric warm air dryers per the Toilet, Bath and Laundry Accessories per Section 102800 and the Drawings. Refer to A701.
7. Bid Item #26, Electrical Contractor shall wire up the Loading Dock Equipment per Section 111300 and the drawings. Include conduits etc.
8. Bid Item #26, Electrical Contractor shall wire up the Roller Window Shades Per Section 122413 and the Drawings. .
9. Bid Item #26, Electrical Contractor shall wire up the operable partition complete. Bid

SECTION 00 24 00
SCOPES OF BIDS

Item #18 shall turn operating devices of the operable partition per section 10 22 38 over to Electrical Contractor to install.

10. Bid Item #26, Electrical Contractor shall furnish and install the Scoreboard as specified in Section 116623, (1.02 and 2.05) Gymnasium Equipment. Refer to Item PE4 on the Equipment Schedule on Drawing A900 and Drawing A902B.
11. Bid Item #26 Electrical Contractor shall furnish and install one (1) scoreboard per Section 116623 1.02, A, 3 and 2.05, and shall furnish and install all accessories and components to provide a fully-functioning completed product, including but not limited to: control console, mounting hardware, control console and carrying case, supports, chains, castings and hangers, anchors, fasteners, fittings, hardware, and grout associated with said work. also as noted PE4 on A900 Equipment Schedule and A901B and A902B.
12. Bid Item #26 Electrical Contractor shall furnish and install the Penetration Firestopping per Section 078413 and the drawings including penetrations and fire safing for everything on the project that you furnish and or install. The Respective MEP Contractors shall furnish and install their own firestopping for their work items. Include this firestopping work in your base bid.
13. Note: Bid Item #21, Gymnasium Equipment, shall be responsible for all equipment, materials, and labor required to attach and secure finished product to existing steel members. Bid Item #21 shall furnish and install all electrical operating machines, including motor, remote-control station(s), limit switch, etc. Note the Final electric connection to be provided by Bid Item #26, Electrical Contractor.
14. Note: Bid Item #22, Telescoping Stands, shall be responsible for all equipment, materials, and labor required to attach and secure product to existing structural member. Bid Item #22 shall provide all electrical components (with the exception of the transformer) associated with the telescoping stands. Transformer and Final electric connection to be provided by Bid Item #26, Electrical Contractor.
15. Bid Item #26 Electrical shall be responsible to install and wire up all of the electric door hardware devices, including electric strikes and power supplies etc, IE: any electrical power, including low voltage wiring to be by bid item 26 Electrician for door or ada door hardware including conduits and raceways.
16. Bid Item #26 Electrical shall furnish and install the rough ins and final connections for all Food Service Equipment. Refer to Section 11400.
17. Bid Item #26 Electrical shall furnish and install the following equipment as shown on the Equipment Schedule A900: PE4, Scoreboard per Section 116623, and PS3, Projection Screens per Section 115213.
18. Bid Item #26 Electrical shall “install and wire up – connect” the following equipment as shown on the Equipment Schedule A900: AP3 Washer, AP4 Dryer, AP5 Fridge, PS1

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Projector, PS2 Wall Projector, PS4 Pole Mounted Projector, TV1 Flat Panel Monitor.

19. Bid Item #26 Electrical shall "wire up and connect" the following equipment as shown on the Equipment Schedule A900: AP1, AP2, DC1, DL1, KB1, PC1, PE1, PE3, PT1, RS1, RS2 and RS3 and VM1.
20. Note, Bid Item #26 shall furnish and install the scoreboard in the gym.
21. Bid Item #26 Electrical shall furnish and install the site electrical lighting including the concrete bases for the site lights.
22. Bid Item #26 Electrical shall furnish and install the site electrical conduits for the primary power from the Cyntheanne Road to the pad mounted electrical transformer. Include two (2) each 4" diameter schedule 40 conduits from the road to the building. Refer to C502 and C503. Include concrete encasement of these primary conductor conduits. This will be to a location just a little South of the Hagerman field office.
23. Bid Item #26 Electrical shall furnish and install the site electrical conduits for the phone, fiber optic and data lines from the Cyntheanne Road to the Building Electrical Room B122. Include two (2) each 4" schedule 40 diameter conduits from the road to the building. Refer to C502 and C503. Include concrete encasement of these data conduits. This will be to a location just a little South of the Hagerman field office.
24. Include the conduit and wiring to the site sign per note 1/E002.
25. Bid Item #26 Electrical shall furnish and install all of the site and building lighting complete per plans and specs.
26. Bid Item #26 Electrical shall furnish and install all of the power complete per plans and specs.
27. Bid Item #26 Electrical shall furnish and install and provide all excavation, backfill, trenching, all with compacted engineer backfill for all underground electrical work. Spoils for this work can be piled on site at a designated location.
28. Bid Item #26 Electrical shall furnish and install a conduit with wire and device etc for the PIV flow and tamper device.
29. Bid Item #26 Electrical shall furnish and install the electrical rough ins and final connections to the Food Service Equipment refer to schedule on E501 and Section 114000.
30. Bid Item #26 Electrical shall furnish and install the Lights per schedule on E501.
31. Bid Item #26 Electrical shall furnish and install motors, starters, disconnect, and controls per schedule on E501.
32. Bid Item #26 Electrical shall furnish and install the excavation, trenching, backfill, concrete encasement etec as shown on the details on E502.
33. Bid Item #26 Electrical shall furnish and install the site lights and bases like shown on E502.

SECTION 00 24 00
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34. Bid Item #26 Electrical shall furnish and install the building grounding system like shown on E502.
35. Bid Item #26 Electrical shall furnish and install typical conduit and wall penetration like shown on E502.
36. Bid Item #26 Electrical shall furnish and install all work on the "T" Technology Drawings and specs.
37. Bid Item #26 Electrical shall procure and provide and comply with all local permits as required for this scope of work. This Bid Item shall schedule all system inspections required by the local City, County, State, or Federal officials for the work included in this scope of work. This Bid Item is responsible to schedule these inspections so as not to delay the project schedule.
38. Bid Item #26 Electrical shall procure and pay for all required electrical permits for this project.
39. Bid Item #26 Electrical shall be aware of the Alternate Bid as Noted on some respective Electrical drawings.
40. Bid Item #26 Electrical to provide all systems work.
41. Bid Item #26 Electrical to wire up all fire protection contractor valves, and devices. Electrical to furnish and install the flow alarm device on the PIV on the site.
42. Bid Item #26 Electrical shall furnish and install all roof electrical work.
43. Bid Item #26 Electrical shall furnish and install the concrete bases for the site lights complete.
44. Bid Item #26 shall furnish and install all firestopping to any electrical floor, wall or ceiling penetration.
45. Bid Item #26 shall furnish and install all caulking and joint sealant for any item installed as part of this scope.
46. Bid Item #26 Electrical shall participate in the scheduling and coordination of the installation of the new Utility Service Transformer by Duke Energy. Any outages shall be coordinated with Hagerman. Include overtime in your bid to perform this electrical shut down and switch over work.
47. Bid Item #26 Electrical shall furnish and install all exterior lighting. This shall include all excavation and concrete light pole bases as indicated.
48. Bid Item #26 Electrical shall furnish and install all exterior building mounted light fixtures. This Bid Item shall provide Bid Item #08 Masonry the back boxes and coordinate locations.
49. Bid Item #26 Electrical shall provide all trenching, conduit and wiring to the Post Indicator Valve located on the site.

SECTION 00 24 00
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50. Bid Item #26 Electrical shall provide electrical rough-ins and final connections to all equipment furnished by all trades, scopes of work and other bid items, including Owner Furnished items, per schedules, plans and specifications.
51. Bid Item #26 Electrical shall furnish and install the grounding and bonding for the electrical system.
52. Bid Item #26 Electrical shall be responsible to coordinate the installation of all floor boxes, wall boxes, and ceiling boxes, and the respective electrical devices, with the respective room finish products. This will include understanding the finish material thicknesses before roughing in boxes.
53. Bid Item #26 Electrical shall provide wiring and connections to all toilet accessories requiring power but furnished by others.
54. Note: Bid Item #25 Mechanical shall have Grantham “furnish” the Variable Frequency Drives for Bid Item #26 Electrical to unload, and “install” all of them. Refer to the Grantham quote attached.
55. Bid Item #26 Electrical shall furnish and install a complete Fire Alarm System per the plans and specifications.
56. Bid Item #26 Electrical shall be responsible for the Identification of Electrical Systems per Specifications.
57. Bid Item #26 Electrical shall be responsible for any Overcurrent Protective Device Coordination Study as may be required.
58. Bid Item #26 Electrical shall furnish the electrical work, conduit, wiring, devices and connections for the dock lift located on site.
59. Bid Item #26 Electrical shall coordinate all electrical work to the Room Finish Schedule and notes on the interior drawings. Refer to A800 and A900.
60. Bid Item #26 Electrical shall provide all hoisting, rigging, cranes and other equipment necessary for this scope of work.
61. Bid Item #26 Electrical shall provide all engineering and layout as required for this scope of work.
62. Bid Item #26 Electrical shall be responsible to provide exact locational and dimensional information for housekeeping pads, concrete equipment bases, and concrete curbs shown on the drawings to Bid Item #09 General Trades. Note Bid Item #09 General Trades shall furnish and install the concrete base for the pad mounted electrical transformer and the emergency generator.
63. Bid Item #08 Masonry shall install all sleeves and embeds furnished by other Bid Items that are to be installed in new masonry per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the sleeves and embeds.

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64. Bid Item #12 Drywall and Ceiling Contractor shall install all sleeves (furnished by other Bid Items) that are to be installed in new drywall walls per plans and specifications. The sleeve must be slid over the plumbing and mechanical and electrical in the general area of the wall. Bid Item #12 Drywall and Ceiling Contractor will align the sleeve in the drywall wall. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the sleeves.
65. Bid Item #12 Drywall and Ceiling Contractor shall install all frames and openings (furnished/required by other Bid Items) that are to be installed in new drywall systems per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the frames and openings.
66. Bid Item #08 Masonry shall install all frames and openings (furnished/required by other Bid Items) that are to be installed in new masonry per plans and specifications. Layout dimensions are the responsibility of the furnishing Bid Item unless noted otherwise. Final verification of layout and installation is the responsibility of the Bid Item requiring the frames and openings.
67. Bid Item #26 Electrical shall be responsible to coordinate the electrical requirements for all electrical items with all Bid Items and other contractors / subcontractors.
68. Bid Item #26 Electrical shall be required to prepare and submit a shop drawing, in CAD format, showing all light fixture layouts. This shop drawing shall show the reflected ceiling plans and shall have physical dimensions, clearance requirements and layout dimensions. Coordinate with all other trades.
69. Bid Item #26 Electrical shall participate in the MEP coordination meetings as scheduled by Hagerman Inc. Bid Item #26 Electrical shall prepare and submit Coordination drawings in the CADD format for the Electrical work. This shall include, but not be limited to, all electrical equipment, conduit 1.5" & larger, conduit racks, ladder racks, pull boxes, raceways, ceiling mounted devices and any item that may impact coordination with other trades.
70. Bid Item #26 Electrical shall furnish and install any access doors required for access to items furnished and/or installed per this scope of work not shown on the Architectural Plans as required. Fire rating of wall, ceiling or floor shall be maintained. Refer to section 083113.
71. Bid Item #26 Electrical shall provide all joint sealants/caulking for all items installed per this scope as required per plans and specifications. Refer to Section 079200.
72. Bid Item #26 Electrical shall properly clean all oil residues off of the conduits before hanging same. Also, Bid Item #26 Electrical shall clean all mud, debris, labels, etc. off before hanging any electrical items.

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73. Bid Item #26 Electrical shall be responsible for installing required conduit, sleeves and equipment curbs, provided by this scope, that penetrate the roof. Coordinate with other Bid Items.
74. Bid Item #26 Electrical shall provide all excavation, trenching, engineered backfill, compaction, boring, rigid sleeves, and earthwork for all items that are to be installed underground as part of this scope of work. This includes all excavation, trenching, compaction and backfill for all underground rough-ins.
75. Bid Item #26 Electrical shall furnish and install all tagging/identification of devices as required.
76. Bid Item #26 Electrical shall be responsible for all General Notes and Plan Notes indicated on all "E" Drawings.
77. Bid Item #26 Electrical shall provide TEMPORARY ELECTRICAL as follows:
- a) Furnish and install temporary power system from the Main Pad Mounted Transformer just as soon as it gets installed. Include Temporary Gear to get Temporary Power inside the building for other trades to use. Disconnect and remove at the end of the job.
 - b) Furnish, install, maintain, and remove a temporary lighting system throughout the building that conforms to OSHA/IOSHA standards (5 fc/54 lx) for temporary lighting. Any "Task Specific" lighting required shall be by the Bid Item requiring the lighting.
 - c) Provide temporary lighting to each temporary outside stair #1 and #2.
 - d) This shall also include maintenance and removal of all temporary power and lighting systems.
 - e) Initially provide temporary light stringers for each floor. After the acoustical ceiling grid is installed, relocate the temporary lights to below the ceiling grid. Do not attach to the ceiling grid.
 - f) Provide temporary transformer, distribution wiring, panels, (All GFCI Protected) etc. so that the project has ample temporary power and lighting for trades to work. Provide a minimum of four (4) panels / spider boxes per floor unless trades require more outlets, then provide what is required for field conditions.
 - g) Provide temporary power and outlets throughout the building as required for all Subcontractors to utilize. This shall also include maintenance and removal.
 - h) Include a temporary power outlet on site for the mason to use for the mortar mixer. Provide proper size temporary electric for the actual mortar mixer motor. Provide an outlet to plug into. The exact location will have to be determined during construction.

**SECTION 00 24 00
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- i) Provide, as needed, all temporary electrical conduits, wires, and connections for any temporary heating and/or cooling on the project.
 - j) Temporary panel covers must meet all regulations and laws.
78. Bid Item #26 Electrical shall understand that not all conduit routes are shown on the plans. Bid Item #26 will need to design, size, layout, and coordinate all conduits runs that are not shown on the plans in order to complete this work and maintain ceiling heights as indicated in plans and specification.
79. Bid Item #26 Electrical shall provide a “containment box” for the cutting and thread machine to set in, during field fabrication and installation, to catch all cutting and threading oils from getting onto the concrete floors or any finished flooring. This shall have an oil absorbent material and will be required to be changed out regularly.
80. Bid Item #26 Electrical shall bid the job to include premium time to perform all electrical shut downs and connections for weekends or as directed and scheduled by the CMC. Include in base bid.
81. Bid Item #26 Electrical shall be responsible for all Owner training required by the specifications for this scope of work.
82. Note, The exact wiring requirements for some equipment cannot be determined until the systems have been purchased and submittals approved. Therefore, only known wiring, conduits, raceways and electrical power related to such items is shown on the drawings. All wiring, conduits, raceways, junction boxes and electrical power not shown on the electrical drawings but required for Mechanical and Plumbing, Equipment is the responsibility of the Bid Item responsible for that system.
83. Bid Item #26 Electrical shall include an allowance in the amount of \$500 in their bid for the procore management software fees.
84. Refer to Section For Bid Alternates
85. Refer to Section for Bid Allowances.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

| | |
|---------|-----------------------|
| Section | All Sections Included |
|---------|-----------------------|

DIVISION 01 GENERAL REQUIREMENTS

| | |
|---------|-----------------------|
| Section | All Sections Included |
|---------|-----------------------|

SECTION 00 24 00
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DIVISION 07 CAULKING

Section 078413 – Penetration Fire Stopping
(As applies to this scope of work)
Section 078446 – Fire Resistive Joint Systems
(As applies to this scope of work)
Section 079200 – Joint Sealants
(As applies to this scope of work)

DIVISION 08 OPENINGS

Section 083313 – Coiling Doors
(As applies to this scope of work)
Section 083323 – Overhead Coiling Doors
(As applies to this scope of work)
Section 083615 – Grazed Alum Section Doors
(As applies to this scope of work)
Section 084113 – Alum Entrances and Storefronts
(As applies to this scope of work)
Section 087100 – Door Hardware
(Bid Item #26 Electrical to wire up and connect all electrified door hardware)

DIVISION 10 SPECIALTIES

Section 101100 – Visual Display Cases
(As applies to this scope of work)
Section 101200 – Display Cases
(As applies to this scope of work)
Section 102238 – Operable Panel Partitions
(As applies to this scope of work)
Section 102800 – Toilet and Bath Accs.
(As applies to this scope of work)

DIVISION 11 EQUIPMENT

Section 111300 – Loading Dock Equipment
(As applies to this scope of work)
Section 114000 – Food Service Equipment
(As applies to this scope of work)
Section 115213 – Projection Screens
(Note Bid Item #26 Electrical to furnish and install the projection screens)
Section 116623 – Gymnasium Equipment
(As applies to this scope of work)

DIVISION 12 FURNISHINGS

Section 122413 – Roller Shades

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(As applies to this scope of work)

Section 123216 – Casework

(As applies to this scope of work)

Section 126600 – Telescoping Stands

(As applies to this scope of work)

DIVISION 14 - ELEVATORS

Section 142100 – Electric Traction Elevators

(As applies to this scope of work)

Section 142400 – Hydraulic Elevators

(As applies to this scope of work)

DIVISION 21 FIRE SUPPRESSION

(As applies to connections and coordination)

DIVISION 22 PLUMBING

(As applies to connections and coordination)

DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING

(As applies to connections and coordination)

DIVISION 26 ELECTRICAL

26 05 01 – Basic Electrical Requirements

26 05 02 – Agreement and Waiver for Use of Electronic Files

26 05 02A – Electronic Files - Heapy Release Form to Contractors

26 05 04 – Basic Electrical Materials and Methods

26 05 05 – Firestopping

26 05 09 – Excavation, Backfill, and Surface Restoration

26 05 19 A – Low-Voltage Electrical Power Conductors – Copper

26 05 19 B – Low-Voltage Electrical Power Conductors – Aluminum

26 05 20 – Low-Voltage Electrical Power Cables – Metal Clad “MC” Cable

26 05 26 – Grounding and Bonding for Electrical Systems

26 05 33 – Raceway and Boxes for Electrical Systems

26 05 43 – Manholes, Handholds, Underground Ducts, and Raceways for Electrical Systems

26 05 53 – Identification for Electrical Systems

26 09 23 – Lighting Control Devices

26 09 24 – Integrated Lighting Automation System

26 22 14 – Distribution Transformers - Non-Linear Loads

26 24 13 – Distribution Switchboard (< 600 Volts)

26 24 16 – Panelboards

26 27 16 – Electrical Cabinets and Enclosures

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26 27 26 – Wiring Devices and Coverplates
26 27 39 – Elevator Power Switch and Wiring
26 28 13 – Fuses
26 28 16 – Disconnect Switches
26 29 13 – Motor Controllers
26 32 13 A – Diesel Engine Driven Generator Sets
26 32 13 B – Natural Gas Engine Driven Generator Sets (Bid Alternate)
26 36 23 – Automatic Transfer Switches (ASCO Series 300)
26 41 00 – Facility Lightning Protection System
26 43 13 – Surge Protection Devices (SPD's) For Low-Voltage Electrical Power Circuits
26 51 13 – Interior Luminaires, Lamps, and Ballasts
26 52 00 – Exit and Emergency Lighting
26 56 00 – Exterior Lighting

DIVISION 27 COMMUNICATIONS

27 05 01 – Basic Communications Requirements
27 05 02 – Agreement and Waiver for Use of Electronic Files
27 05 02A – Electronic Files - Heapy Release Form to Contractors
27 05 04 – Basic Communications Materials and Methods
27 05 05 – Firestopping
27 05 26 – Grounding and Bonding for Communications Systems
27 05 28 – Communications Systems Pathways and Support Equipment
27 05 33 – Raceway and Boxes for Communication Systems
27 05 53 – Identification for Communication Systems
27 11 00 – Communications Equipment Room Fittings
27 13 23 – Communications Optical Fiber Backbone Cabling
27 15 13 – Communications Copper Horizontal Cabling
27 15 43 – Communications Audio-Video Horizontal Cabling
27 21 00 – Communication Network Equipment - Ups
27 41 19 – Video Display Equipment
27 51 22 – Dining Room Sound Reinforcement System
27 51 23 – Central Sound/Intercom System
27 51 24 – Gymnasium Sound Reinforcement System
27 51 25 – Music Room Sound System – Elementary School
27 51 27 – Classroom Sound Reinforcement System
27 51 27 – Bid Alternate – Classroom Sound Reinforcement System
27 51 35 – GPS Satellite Clock System

DIVISION 28 ELECTRONIC SAFETY AND SECURITY

28 05 01 – Basic Electronic Safety and Security Requirements
28 05 28 – Electronic Safety and Security Systems Pathways and Support Equipment

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28 05 53 – Identification for Electrical Safety and Security Systems
28 13 00 – Security Management System
28 16 00 – Intrusion Detection System
28 23 01 – Video Surveillance - IP
28 31 00 – Fire Detection and Alarm

DIVISION 31 EARTHWORK

(As Applies to this scope of work)

DIVISION 33 UTILITIES

(As Applies to this scope of work)

Please read and understand the following Bid Package #01, Bid Items #1 and #2, and Bid Package #02, Bid Items #03, #04, #05 and #06 have already been bid and awarded. They are included here for your use and reference and coordination to work with Bid Package #03.

BID PACKAGE #02 - BID ITEM #03: CONCRETE FOUNDATIONS, SLABS AND SIDEWALK WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #03 Concrete Contractor shall furnish and install all concrete foundations, all poured concrete foundation walls, all concrete slab on grade, all concrete slab on metal decks, all concrete sidewalks and all concrete turned down curb and sidewalks.
2. Bid Item #05 Asphalt Paving shall furnish and install all straight curbs and all curb and

SECTION 00 24 00
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gutters.

3. Bid Item #03 Concrete Contractor shall furnish and provide all excavation work for the concrete foundation and concrete work. This includes hauling all spoils off site.
4. Bid Item #03 Concrete Contractor shall furnish and install all concrete layout, engineering, formwork, rebar, placing, setting and installing anchor bolts and anchor rods and finishing for the concrete work.
5. Bid Item #04 Steel shall fabricate and deliver all steel anchor bolts and rods to the jobsite for the Bid Item #03 Concrete Contractor to unload and install the anchor bolts and anchor rods.
6. Bid Item #03 Concrete Contractor shall furnish and install grout to all steel base plates.
7. Bid Item #04 Steel shall fabricate and deliver the steel anchor bolts and rods like shown on Details 5, 12 and 13 on S401. Bid Item #03 Concrete to install anchor bolts and rods and grout the base plates.
8. Bid Item #04 Steel shall fabricate and deliver the anchor bolts and rods like shown on Details 6, 7, 8, 9, 10, and 11 on S402. Bid Item #03 Concrete to install anchor bolts and rods and grout the base plates.
9. Bid Item #03 Concrete Contractor will furnish and install all rebar for concrete work for the project. The Masonry contractor will furnish and install all rebar for the masonry work. Bid Item #03 Concrete Contractor will be required to furnish and install the "dowels" that go into the concrete work for the masonry walls. Install those as you pour the concrete foundation system. Obtain layout and spacing dimensions from the Masonry Contractor.
10. Bid Item #03 Concrete shall furnish and install the grout as identified in Section 051200 Paragraph 2.4.
11. Bid Item #03 Concrete Contractor shall provide a PE stamped or a Registered Land Surveyor "survey" of the concrete and anchor bolt work as soon as the concrete is poured and 15 days prior to any steel erection work.
12. Bid Item #04 Steel shall be responsible to furnish the steel bearing plates to the masonry contractor and to install into the masonry work and to Bid Item #03 Concrete Contractor to install into the concrete work.
13. Bid Item #03 Concrete Contractor shall provide all excavation work and haul all spoils off site for any and all concrete work.
14. Bid Item #03 Concrete Contractor shall provide all excavation, backfill, engineered fill and compaction for the building foundation work and the 6" compacted stone base, vapor barrier, perimeter insulation and concrete slab. This includes same for all outdoor mechanical housekeep pads shown on the drawings.
15. Bid Item #03 Concrete shall cut the perimeter foundation insulation on the taper at the top when installing per the drawing details and specs.

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16. Bid Item #03 Concrete Contractor shall furnish all concrete work, including, dewatering, excavation, engineered backfill, forming, rebar, furnishing, placing and finishing for complete concrete work, including the required compacted stone / granular base fill.
17. Bid Item #03 Concrete Contractor will plan to furnish and perform the foundation concrete work and all concrete work using temporary gas generators. We will not have temporary or permanent power on site for this work.
18. Bid Item #03 Concrete Contractor shall furnish and install all concrete work, walls, pits, floors, and slabs concrete work per the plans and specs.
19. Bid Item #03 Concrete Contractor shall furnish and install all concrete foundations including setting the anchor rods and anchor bolts.
20. Bid Item #03 Concrete Contractor shall provide and be responsible for the "General Notes" on S001 as apply to this scope of work.
21. Bid Item #03 Concrete Contractor shall provide and be responsible for the "Design Criteria Notes on S001 as apply to this scope of work.
22. Bid Item #03 Concrete Contractor shall provide and be responsible for the "Coordination with Other Trades Notes" on S001 as apply to this scope of work.
23. Bid Item #03 Concrete Contractor shall provide and be responsible for the "Foundation Notes" on S001 as apply to this scope of work.
24. Bid Item #03 Concrete Contractor shall provide and be responsible for the "Concrete Reinforcing Notes" on S001 as apply to this scope of work.
25. Bid Item #03 Concrete Contractor shall provide and be responsible for the "Cast in Place Concrete Notes" on S001 as apply to this scope of work.
26. Bid Item #03 Concrete Contractor shall provide and be responsible for the "Concrete Mix Designs" on S001 as apply to this scope of work.
27. Bid Item #03 Concrete Contractor shall provide and be responsible for the "Post Installed /Dowels and Anchor Bolts / Rods Notes" on S001 as apply to this scope of work.
28. Bid Item #03 Concrete Contractor shall furnish and install the column footings, walls footings, concrete piers and concrete tie beams per S002 Schedules.
29. Bid Item #03 Concrete Contractor shall provide and be responsible for the Foundation Plan Notes 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, and 17 on S201A, S201B, S201C and S201D.
30. Bid Item #03 Concrete Contractor shall provide and be responsible for the Framing Plan Notes 1, 2, 3, 4, 5, 6, 7, 8, 13, 15, and 16, on S202A, S202B, S202C, S202D and S203A, S203B, S203C, and S203D. Also: Please read note 15 on these drawings.
31. Bid Item #03 Concrete Contractor shall furnish and install the 6" compacted stone base and vapor barrier per detail 1/S401 under the concrete floor slab.

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32. Bid Item #03 Concrete Contractor shall furnish and install the steel sleeves like shown on S201B, S201C and etc. like per detail 12/S402 and 11/S401 and 16/S401.
33. Bid Item #03 Concrete Contractor shall furnish and install the concrete work, reinforcing, isolation joints, joint sealants / caulk, rebar, excavation work etc per the details on S401.
34. Bid Item #03 Concrete Contractor shall furnish and install the stepped footings per detail 10/S401 as required for the project.
35. Bid Item #03 Concrete Contractor shall be responsible to sawcut and install concrete control joints.
36. Bid Item #03 Concrete Contractor shall furnish and install the additional concrete slab and insulation under the walk in cooler and freezer like shown on 13/S402.
37. Bid Item #03 Concrete Contractor shall furnish and install the concrete on the metal decks, including the rebar, etc, refer to the drawings and details 1 and 6 S404.
38. Bid Item #03 Concrete Contractor shall furnish and install the concrete on the metal decks, including the rebar, etc, refer to the drawings and details 2, 3, and 4 S405.
39. Bid Item #03 Concrete Contractor shall furnish and install the 6" compacted granular fill, the vapor barrier and the concrete floor slab.
40. Bid Item #03 Concrete Contractor shall furnish and install the compacted stone base under the concrete floors.
41. Bid Item #03 Concrete shall provide the cast in place concrete work per section 033000 and the drawings.
42. Bid Item #03 Concrete shall furnish and install the joint sealants as required for work furnished and or installed with this scope of work per section 079200.
43. Bid Item No. 03 Concrete shall be responsible to notify and schedule all building inspections required by the local City, County, State, or Federal officials for the work included in this scope of work. This Bid Item is responsible to schedule these inspections so as not to delay the project schedule.
44. Bid Item #03 Concrete shall dig, excavate and backfill for any and all concrete foundations walls both inside and outside of the building. Backfill foundations with approved engineered fill as required. Provide the stone base under the slab on grade. Haul spoils off site for this work. Obviously this contractor cannot backfill some foundations until the cmu block are laid and grouted.
45. Bid Item #03 Concrete shall furnish and install the Board Insulation per spec section 072100 at the cavity walls, exterior walls and foundation walls. Bid Item #03 shall furnish and install the board insulation anyplace the masonry work requires it below grade. The board insulation required at the foundation perimeter and under the concrete slabs shall be furnished and installed by the Bid Item #03 Concrete Contractor.

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46. Bid Item #03 Concrete and shall furnish and install the foundation insulation, compacted stone base, vapor barrier, and concrete floor slab, and isolation joint complete.
47. Bid Item #03 Concrete shall provide all concrete winter conditions including admixtures, blankets, temporary heat, temporary fuel, temporary enclosures, etc to perform this work per the project schedule.
48. Bid Item #03 Concrete shall install water stops at joints, and the specified water proofing to the elevator pit floor and walls.
49. Bid Item #03 Concrete Contractor shall include a Unit price / CY for bad soils discovered when excavating for the building foundation systems. This shall include the excavation, removal, haul off site and new compacted granular fill put in place per the project Soils Engineer. Like per detail 1/S402.
50. Bid Item #03 General Trades shall include a Unit price / CY for bad soils discovered when excavating for the building foundation systems. This shall include the excavation, removal, haul off site and new 2,000 psi lean concrete fill put in place per the project Soils Engineer. Like per detail 2/S402.
51. Bid Item #03 Concrete Contractor shall furnish and install and provide the temporary concrete wash out dumpsters for this scope of work.
52. Bid Item #03 Concrete shall backfill the exterior of all foundations.
53. Bid Item #03 Concrete will provide all work per section 033300 Cast In Place Concrete.
54. Bid Item #03 Concrete shall provide all work as noted per Section 033001 Site Cast In Place Concrete
55. Bid Item #03 Concrete shall provide all work per section 312010 Earth Moving Building
56. Bid Item #03 Concrete shall provide a proof roll of the slab on grade before placing stone base.
57. Bid Item #03 Concrete shall provide the compacted stone base per section 321123 Granular Base as applies to this scope of work. Provide stone base under all concrete paving that you furnish and install.
58. Bid Item #03 Concrete shall furnish and install the work per section 321316 Concrete Paving as applies to this scope of work.
59. Bid Item #03 Concrete shall furnish and install all of the concrete "collars" to the site storm and site sanitary manholes and cleanouts, in both asphalt and soil locations, refer to the Civil Drawings for locations and Details 2, 4, 6, 13 and 14 pm C601 and those required at the grease interceptor and sampling manhole.
60. Bid Item #03 Concrete shall furnish and install the integral concrete curb and sidewalks per the Material Legend C1.1 like shown on detail 8/L501
61. Bid Item #03 Concrete shall furnish and install the standard concrete paving per the

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Material Legend P2.1 like shown on details 3, 5, 6, and 7 on L501 including dowels, fiber mesh, rebar, etc.

62. Bid Item #03 Concrete shall furnish and install the heavy duty concrete paving per the Material Legend P2.2 like shown on details 4, 5, 6, and 7 on L501
63. Bid Item #03 Concrete shall furnish and install the Accessible Sidewalk Ramps per Material Legend R1.1, Refer to Condition A, R1.2, Refer to Condition B, R1.3, Refer to Condition C, and R1.4 Refer to Condition D on 1/L502. Include furnishing and installing the truncated dome red unit pavers.
64. Bid Item #03 Concrete shall furnish and install the steel bollards in concrete per Site Furnishings Note F2.1 as shown on the drawings and per 2/L502.
65. Bid Item #03 Concrete shall furnish and install the concrete for the bike racks per Site Furnishings Note F2.3 as shown on the drawings and per 13/L501. The actual bike racks will be furnished and installed by others.
66. Bid Item #03 Concrete shall furnish and install the concrete for the flagpole. This includes excavating the hole and setting the flag pole sleeve. The actual flag pole will be furnished and installed by others. The flagpole sleeve will be turned over to Bid Item #03 to install. Refer to the Site Furnishings Note F2.7 and 12/L501 and L504.
67. Note: Bid Item #01 Excavator shall furnish and install all of the Irrigation Sleeves shown on the drawings under the sidewalks and driveways per Site Furnishings Note F2.11 as shown on the drawings and per 10/L501 per the Bid Package #01 Addenda #01.
68. Bid Item #03 Concrete shall be responsible for layout notes on the layout drawings like 1 thru 7 on L112 and key notes 1 and 2 on L111, L112, L113 and L114.
69. Bid Item #03 Concrete shall furnish and install the concrete work per details 3, 4, 5, 6, 7, 8, 12, 13, and the sleeves for the irrigation system detail 10 on L501.
70. Bid Item #03 Concrete shall furnish and install the concrete work per details 1, 2, 3, on L503.
71. Bid Item #03 Concrete shall furnish and install the concrete work per details 1 and 2 on L504.
72. Bid Item #03 Concrete shall furnish and install the Termite Control per Spec Section 313116 under all of the interior concrete slabs.
73. Bid Item #03 Concrete shall include an allowance in the amount of \$1,000.00 in their bid for the project procure management software fees.
74. Refer to Section for Bid Alternates. None.
75. Note, Previously Bid, Bid Item #01 Site Excavation Contractor shall furnish and install the compacted stone base under all sidewalk, curbs, driveways, drives, road, walking paths, turn lanes, passing blisters, accel, decel lanes etc the required depth.
76. Note the Owner will provide soil and concrete material testing.

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77. Refer to Section for Bid Alternates.

78. Refer to Section for Bid Allowances.

79. Refer to Section for Bid Unit Prices.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

| | |
|---------|-----------------------|
| Section | All Sections Included |
|---------|-----------------------|

DIVISION 01 GENERAL REQUIREMENTS

| | |
|---------|-----------------------|
| Section | All Sections Included |
|---------|-----------------------|

DIVISION 03 CONCRETE

| | |
|---------|--|
| Section | 033000 – Cast In Place Concrete |
| Section | 033001 – Site Cast In Place Concrete (As applies to this scope of work) |

DIVISION 05 METALS

| | |
|---------|--|
| Section | 051200 – Steel (As applies to this scope of work) |
|---------|--|

DIVISION 07 THERMAL AND MOISTURE PROTECTION

| | |
|---------|---|
| Section | 072100 – Thermal Insulation (As Applies to this scope of work) |
| Section | 079200 – Joint Sealers (As Applies to this scope of work) |

DIVISIONS 31, 32, AND 33 SITE CONSTRUCTION

| | |
|---------|--|
| Section | 31 20 10 – Earth Moving Building (As applies to this scope of work) |
| Section | 31 31 16 – Termite Control |
| Section | 32 11 23 – Granular Base (As applies to this scope of work) |

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| | |
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| Section | 32 13 16 – Concrete Paving (As applies to this scope of work) |
|---------|--|

BID PACKAGE #02 - BID ITEM #04 STRUCTURAL AND MISC. STEEL WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #04 Steel shall furnish and install all structural steel, metal desking, steel joist, stairs, and misc. steel shown on the drawings and all per the specs. This will include the fabrication, engineering shop drawings and erection of the steel
2. Bid Item #04 Steel shall provide and be responsible for the General Notes 1 thru 14 on drawing S001 as applies to this scope of work.
3. Bid Item #04 Steel shall provide and be responsible for the Design Criteria Notes 1 thru 11 on drawing S001 as applies to this scope of work.
4. Bid Item #04 Steel shall provide and be responsible for the Coordination with Other Trades Notes 1 thru 9 on drawing S001 as applies to this scope of work.
5. Bid Item #04 Steel shall provide and be responsible for the Steel Lintel Notes 1. A on drawing S001 as applies to this scope of work.
6. Bid Item #04 Steel shall provide and be responsible for the Post Installed Dowel and Anchor Bolts / Rods Notes 1 thru 2 on drawing S001 as applies to this scope of work.
7. Bid Item #04 Steel shall provide and be responsible for the Structural Steel Notes 1 thru 14 on drawing S001 as applies to this scope of work.
8. Bid Item #04 Steel shall provide and be responsible for the Steel Joist Notes 1 thru 17 on drawing S001 as applies to this scope of work.

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9. Bid Item #04 Steel shall provide and be responsible for the Steel Deck Notes 1 thru 12 on drawing S001 as applies to this scope of work.
10. Bid Item #04 Steel shall provide and be responsible for the Steel Connection Notes 1 thru 16 on drawing S001 as applies to this scope of work.
11. Bid Item #04 Steel shall provide and be responsible for the Shop Weld Inspection Steel Inspection Schedule Note A thru I on drawing S001 as applies to this scope of work.
12. Bid Item #04 Steel shall provide and be responsible for the Special Structural Engineering Notes 1 thru 6 on drawing S001 as applies to this scope of work.
13. Bid Item #04 Steel shall provide and be responsible for the Steel Stair Notes 1 thru 5 on drawing S001 as applies to this scope of work.
14. Bid Item #04 Steel shall furnish and install the elevator sump pit frame and grate. Refer to S201C and 5/S402.
15. Bid Item #04 Steel shall fabricate and deliver all steel anchor bolts and rods to the jobsite for the Bid Item #03 Concrete to unload and install the anchor bolts and anchor rods.
16. Note: Bid Item #03 Concrete shall furnish and install grout to all steel base plates.
17. Bid Item #04 Steel shall furnish and install all steel columns.
18. Bid Item #04 Steel shall furnish and install all steel bracing including any and all required temporary steel bracing during erection.
19. Bid Item #04 Steel shall provide and be responsible for the Foundation Plan Notes 1, 2, 3, 4, 5, 6, 7, and 9, and 16 and 17 on S201A, S201B, S201C, and S201D.
20. Bid Item #04 Steel shall provide and be responsible for the Framing Plan Notes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 16, and 17 on S202A, S202B, S202C, and S202D.
21. Bid Item #04 Steel shall furnish and install all steel including the work shown on S202A, S202B, S202C, S202D, and S203A, S203B, S203C, S203D, and S301 and all notes as apply to this scope of work.
22. Bid Item #04 Steel shall furnish and be responsible for the Bracing Notes 1 thru 8 on Drawing S301.
23. Bid Item #04 Steel shall include the steel support for the stacking folding partition like shown on S202B. The actual folding partition will come out in a future bid package, so this steel support will have to be installed later on and not during the main steel erection.
24. Bid Item #04 Steel shall fabricate and deliver the steel base plates and anchor bolts and rods like shown on Details 5, 12 and 13 on S401. Bid Item #04 Steel to install the base plates and Bid Item #03 Concrete to install anchor bolts and rods and grout the base plates.
25. Bid Item #04 Steel shall fabricate and deliver the steel base plates and anchor bolts and

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- rods like shown on Details 6, 7, 8, 9, 10, and 11 on S402. Bid Item #04 Steel to install the base plates and Bid Item #03 Concrete to install anchor bolts and rods and grout the base plates.
26. Bid Item #04 Steel shall furnish and install the steel clip angles at the tops of the masonry walls like shown in details 14/S403 and 16/S403. Refer to the "For Reference Only" Architectural Drawings to determine location of masonry walls to obtain quantities required.
27. Bid Item #04 Steel shall furnish and install the steel, metal decking, and all misc. steel per all of the details on S404 and S405.
28. Note: Bid Item #03 Concrete will furnish and install all rebar for concrete work for the project. The Masonry contractor will furnish and install all rebar for the masonry work.
29. Bid Item #04 Steel shall furnish and install the steel, base plates and anchor bolts like per detail 16/S601
30. Bid Item #04 Steel shall furnish and install the steel, metal decking, bent plate slab edge, nelson anchors, steel girts etc. per details on S701.
31. Bid Item #04 Steel shall furnish the steel joist embed for the Masonry Contractor to install in the masonry wall. Provide dimensioned shop drawings for layout. Refer to 5/S702.
32. Bid Item #04 Steel shall furnish and install the steel $\frac{1}{4}$ x $\frac{1}{4}$ steel angle like shown in details 1 and 2 S702.
33. Bid Item #04 Steel shall furnish and install the steel beams, metal decking, and bent plate angles with anchors like per detail 3/S702.
34. Bid Item #04 Steel shall furnish and install the steel angle, bracing, with anchors like show detail 4/S702.
35. Bid Item #04, Steel shall furnish and install the stairs for the building. Refer to the enlarged stair plans and sections (A420, A421, A422, and A423). Please note Bid Item #03 Concrete shall furnish and install the concrete on the stair treads and landings etc.
36. Bid Item #04 steel shall provide all manlifts, cranes, forklifts, lulls, ladders, etc. to furnish and install this work.
37. Note: Bid Item #03 Concrete shall furnish and install the grout as identified in Section 051200 Paragraph 2.4.
38. Bid Item #04 Steel shall provide all hot dipped galvanized material per the specs and drawings.
39. Owner will provide normal steel testing like per 051200, 2.10 and 3.5.
40. Bid Item #04 Steel shall furnish and install and provide all temporary steel bracing and supports for wind and steel erection.

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41. Bid Item #04 Steel shall be responsible to follow the Inspection and Testing procedures per specs. The Owner will provide and pay for the actual material testing.
42. Bid Item #04 Steel shall furnish and install the Structural Steel Framing per section 051200.
43. Bid Item #04 Steel shall have a pre install conference per specs prior to starting work.
44. Bid Item #04 Steel shall provide the engineered PE Stamped shop drawings per specs 051200, 1.4 C.
45. Bid Item #03 Concrete Contractor shall provide a PE stamped or a Registered Land Surveyor "survey" of the concrete and anchor bolt work prior to any steel erection work.
46. Bid Item #04 Steel shall submit certified welding certificates prior to starting work per spec 051200, 1.4 D.
47. Bid Item #03 Concrete Contractor will be responsible to grout the steel base plates per spec 051200, 2.4
48. Bid Item #04 Steel shall provide shop primer and hot dipped galvanized steel per the specs and drawing notes.
49. Bid Item #04 Steel shall be responsible to verify installed steel elevations.
50. Bid Item #04 Steel shall be responsible to furnish and install the Steel Joist Framing per section 052100.
51. Bid Item #04 Steel shall be responsible to design, furnish and install the steel bridging to the steel joists.
52. Bid Item #04 Steel shall be responsible to furnish the steel bearing plates to the masonry contractor and to install into the masonry work and to Bid Item #03 Concrete Contractor to install into the concrete work.
53. Bid Item #04 Steel shall furnish and install the Steel Decking per section 053100. This includes the roof deck and composite floor deck.
54. Bid Item #04 Steel to provide all touch up paint and galvanizing as required due to field work conditions.
55. Bid Item #04 Steel shall furnish and install the Metal Fabrications per Specs including stairs and ladder.
56. This includes lintels, ledge and shelf angles, ladders, structural support for misc. attachments, anchor bolts, stairs, and other steel items on the drawings.
57. Note: Bid Item #04 Steel shall furnish only the loose steel lintels to the jobsite for the Masonry Contractor to install the loose lintels.
58. Bid Item #04 Steel shall be responsible to furnish and install the openings shown on the drawings. Bid Item #04 will need to submit dimensioned shop drawings of all openings

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and have the MEP Contractors confirm locations prior to install.

59. Bid Item #04 Steel shall furnish and install the Metal Stairs per plans and specs.

60. Note: Bid Item #03 Concrete Contractor shall furnish and install the concrete to the metal pan treads and landings of the stairs.

61. Bid Item #04 Steel shall furnish and install the Handrails and Railings per plans and specs.

62. Bid Item #04 Steel shall furnish and install two (2) rows of ½" diameter wire rope safety cables and required hardware (u-bolts, turnbuckles, etc.) at all perimeter edges, interior openings, and flat roof edges. Include monies to remove these as the job progresses along.

63. Bid Item #04 Steel to furnish only the anchor bolts / anchor rods complete with nuts, washers etc. to the project site for Bid Item #03 Concrete Contractor to install.

64. Bid Item #03 Concrete Contractor shall furnish and install all grout to all structural steel and misc. steel base plates and columns.

65. Bid Item #04 Steel shall provide a crane and erect all steel.

66. Bid Item #04 Steel shall furnish and install the metal sumps to the roof for the roof drains.

67. Bid Item #04 Steel shall furnish and install the two (2) coats of asphaltum paint per detail 12 and 13/S401 for the project as required.

68. Bid Item #04 Steel shall furnish and install the acoustical metal decking. Bid Item #04 Steel shall also furnish the acoustic insulation that goes into the metal decking to the Roofing Contractor. Please ship the acoustic insulation at a later shipment as we will not have a dry storage area on site during steel erection.

69. Bid Item #4 Shall furnish and install the steel handrails located on the site at the south gymnasium entrance located just west of the drop off zone. Per detail 1 and 2 on L504.

70. Bid Item #04 Steel shall include an allowance in the amount of \$1,000.00 in their bid for the project procore management software fees.

71. Refer to Section for Bid Alternates. None.

72. Refer to Section for Unit Prices – None.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION 04 METALS

Section 05 12 00 – Structural Steel Framing

Section 05 21 00 – Steel Joist Framing

Section 05 31 00 – Steel Deck

Section 05 50 00 – Metal Fabrications (to be issued via Addenda)

Section 05 52 13 – Pipe and Tube Railings (to be issued via Addenda)

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BID PACKAGE #02 - BID ITEM #05 ASPHALT PAVING AND CONCRETE CURBS WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective "Contracts", it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #05 Asphalt Paver shall furnish and install the Asphalt Paving per Section 32 12 16 and the drawings.
2. Bid Item #05 Asphalt Paver shall furnish and install the Pavement Markings Per Section 32 17 23.
3. Bid Item #05 Asphalt Paver shall furnish and install the Traffic Signs.
4. Bid Item #05 Asphalt Paver shall provide a proof roll over the stone base.
5. Bid Item #05 Asphalt Paver shall provide fine grading of the stone base.
6. Bid Item #05 Asphalt Paver shall provide a survey of the stone base grades to make sure you can get proper pavement sections prior to paving.
7. Bid Item #05 Asphalt Paver shall provide an asphalt paving "seam" diagram before paving. We want to understand where cold joints will be and how to properly overlap the surface.
8. Bid Item #05 Asphalt Paver shall provide adequate rollers on site when paving to "seam" the asphalt joints when paving.
9. Bid Item #05 Asphalt Paver shall roll the stone out from the paving truck traffic before paving to get the proper thickness of paving.
10. Note: The Owner will provide asphalt paving material testing.
11. Bid Item #05 Asphalt Paving shall furnish and install the fine grading of the stone base under all curbs and driveways.

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12. Bid Item #05 Asphalt Paving shall furnish and install the Post or Straight Curb. Refer to Material Legend C1.2 and detail 9/L501.
13. Bid Item #05 Asphalt Paving shall furnish and install the Wheel Stops. Refer to Material Legend C1.3 and detail 4/L502.
14. Bid Item #05 Asphalt Paving shall furnish and install the Asphalt Paving. Refer to Material Legend P1.1 and detail 1/L501 including tack coat.
15. Bid Item #05 Asphalt Paving shall furnish and install the Heavy Duty Asphalt Paving. Refer to Material Legend P1.2 and detail 2/L501 including tack coat.
16. Bid Item #05 Asphalt Paving shall furnish and install the Site Accessible Parking Sign. Refer to the Material Legend S1.1, Accessible Parking Sign 5/L502.
17. Bid Item #05 Asphalt Paving shall furnish and install the Site Accessible Parking Symbol. Refer to the Material Legend S1.2, Accessible Parking Symbol 6/L502 and the ADA Parking Spot stripes per 3/L502.
18. Bid Item #05 Asphalt Paving shall furnish and install the Site Stop Signs. Refer to the Material Legend S1.3, Stop Sign 7/L502.
19. Bid Item #05 Asphalt Paving shall furnish and install the Do Not Enter Signs. Refer to the Material Legend S1.4, Detail 7/L502.
20. Bid Item #05 Asphalt Paving shall furnish and install the Drop Off Zones Signs. Refer to the Material Legend S1.5, Detail 7/L502.
21. Bid Item #05 Asphalt Paving shall review and be responsible for the Material and Notes Plans L101, L102, L103 and L104 as relates to this scope of work. Use the L drawings in concert with the C drawings.
22. Bid Item #05 Asphalt Paving shall furnish and install the Asphalt Paving and Thermoplastic Striping to the main entry, passing blister, turn lanes, accel and decel lanes. Refer to C201 and C202.
23. Bid Item #05 Asphalt Paving shall review, provide and be responsible for the Layout Plans L110, L111, L112, L113 and L114 as relates to this scope of work. Use the L drawings in concert with the C drawings.
24. Bid Item #05 Asphalt Paving shall review, provide, and be responsible for the Grading Plans C301, C302, C303, C304 as relates to this scope of work. Use the L drawings in concert with the C drawings.
25. Bid Item #05 Asphalt Paving shall review, provide, coordinate and be responsible for the Utility Plans C501, C502, C504, and C505 as relates to this scope of work. Use the L drawings in concert with the C drawings.
26. Bid Item #05 Asphalt Paving shall provide a maintenance bond for your work in the public right of way.

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27. Bid Item #05 Asphalt Paving shall provide the traffic control and barricades for work in the right of way.

28. Note, Previously Bid, Bid Item #01 Site Excavation Contractor shall furnish and install the compacted stone base under all sidewalk, curbs, driveways, drives, road, walking paths, turn lanes, passing blisters, accel, decal lanes etc the required depth.

29. Bid Item #05 Asphalt Paving shall include an allowance in the amount of \$1,000.00 in their bid for the project procure management software fees.

30. Refer to Section for Bid Alternates. None.

31. Refer to Section for Unit Prices – None.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION SITEWORK:

Section 32 12 16 – Asphalt Paving

Section 32 17 23 – Paving Marking

BID PACKAGE #02 - BID ITEM #06: LANDSCAPE AND SEEDING WORK:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification

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Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #06 Landscape and Seeding work shall furnish and install the fine grading, rock rake, soil prep, fertilizer, seeding, straw, straw mat on slopes, watering, a full stand of grass and full maintenance, mowing, cutting, watering and weed control until project substantial completion date.
2. Bid Item #06 Landscaper shall provide labor and equipment to thoroughly rock rake in two directions at a ninety degree angle to pick up all rocks and roots and sticks and corn stalks larger than 1".
3. Bid Item #06 Landscaper shall provide and be responsible for the General Landscape and Planting Notes 1 thru 16 and the Samco Notes 1 thru 4 on Drawings L201, L202, L203, and L204.
4. Bid Item #06 Landscaper shall furnish and install the Landscape Plantings and Seeding work as shown on Drawings L201, L202, L203, and L204.
5. Bid Item #06 Landscaper shall furnish and install and provide all work per the drawing L510. This includes, excavation, soil amendments, tree planting, backfill, tree staking, mulch, etc, complete for both plants and shrubs.
6. Bid Item #06 Landscaper shall furnish and install the Turfs and Grasses Per Section 32 92 00 to all areas of the project.
7. Bid Item #06 Landscaper shall make formal submittals of all products and materials prior to install. Schedule trip to tree farm with the CMc and Owner as required prior to digging trees for the project.
8. Bid Item #06 Landscaper will include the John Deere "Team Mates" Grass seed as the basis of grass seed. We can talk about improving on this seed mix before install.
9. Bid Item #06 Landscape shall crimp all straw into the ground on day of install.
10. Note, Previously Bid, Bid Item #01 Excavator and Utility Contractor, shall provide erosion control and pre and post construction. Including silt fence, rock check dam, erosion control maintenance, erosion control blanket, (Pond Bank and Swales) and inlet protectors. Include permanent seed pond area of the fenced in wet detention area banks and slopes.
11. Bid Item #06 Landscaper shall be responsible to seed and turf all other areas of the project.
12. Bid Item #06 Landscaper shall be responsible to fine grade the areas to make look good and not have any ponding. We need positive drainage all areas.

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32. Bid Item #06 Landscaper shall include an allowance in the amount of \$1,000.00 in their bid for the project procore management software fees.

33. Refer to Section for Bid Alternates. None.

34. Refer to Section for Unit Prices – None.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION Exterior Improvements:

Section 32 92 00 – Turfs and Grasses

Section 32 93 00 – Plants

Please note the following Bid Package #01, Bid Items #01 and #02 have already bid and are attached here for your use, reference, and coordination:

**Bid Package #01, Bid Item #01 – Site Excavation and Site Utilities:
(with the exception of Sanitary Sewer)**

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related

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work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

Please fix the numbering to all of these below here

1. Bid Item #01 shall provide all mass excavation and site utility work for this project complete. Note, the Sanitary Sewer work is part of Bid Item #02.
2. Bid Item #01 shall read and follow the two (2) land survey drawings provided in the bid set.
3. Hagerman will provide three (3) control survey points and two (2) benchmarks on site for this subcontractor to work from.
4. Bid Item #01 shall provide all survey work to perform this work. Tolerances for Subgrades shall be within .01', aka, 1/10 of a foot, for the building pad, lawn areas, roads and drives.
5. Bid Item #01 shall provide 95% Modified Proctor Compaction to the building pad, sidewalks, curbs, roads and driveways.
6. **Bid Item #01 shall include lime soil stabilization in your base bid, for all of the work in the right of way, this includes the 8' walking path, and the right turn lane and passing blister and the left turn lane and passing blister, accel and decel lanes, refer to drawing C201 and C202.**
7. **Bid Item #01 shall submit an add alternate price to provide lime soil stabilization of the "existing subgrade after topsoil has been stripped off, for the New Elementary School #13 "building pad" area one 12" inch lift of the entire building pad said area.**
8. **Bid Item #01 shall submit an add alternate price to provide lime soil stabilization of the New Elementary School #13 "building pad" in 12" inch lifts and the entire building pad said area.**
9. **Bid Item #01 shall submit an add alternate price to provide lime soil stabilization of the New Elementary School #13 parking lots and roads and driveways in lifts to get to the proper subgrade and the entire said area.**
10. Bid Item #01 shall provide all selective demolition work as follows. Provide all of the work associated with the Demolition Plan Notes #1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 on Drawing C101. Also, Provide all of the work associated with the Demolition Plan Legend notes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 (these are the ones in the circles) on drawing C101.
11. Bid Item #01 shall put up orange snow fence and protect all existing trees that stay, coordinate dimension from tree drip line.

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12. Bid Item #01 shall furnish, install and maintain the traffic control plan like per drawing C201.
13. Please be informed, Hagerman would like to use the existing house as a temporary field office, so all of the work related to tearing it down and removing it will have to be schedule towards the end of the entire project.
14. Bid Item #01 shall provide the excavation and demo work associated with the entrance, acel, decal, passing blister, turn lanes, and walk path, etc and get to subgrade with stone base.
15. Bid Item #01, Note the work in the right of way will have to have lime soil stabilization and or cement soil stabilization per the City of Fishers and this work of soil stabilization needs to be included in your base bid. This includes driveway entrance, exit, acel, decal, passing blister, turn lanes, walk path etc.
16. Bid Item #01 shall furnish and install the soil erosion control materials. Maintain this soil erosion control materials due to wind, rain, snow, etc. This includes all work shown on Drawings C401, C402, C403, C404, C405 and C406. Damage to this material by other contractors will be their responsibility.
17. Bid Item #01 shall be responsible to keep the mud and dirt off of the City and County streets and roads for your work activities.
18. Bid Item #01 shall provide all dewatering, including tools, equipment, pumps, motors, generators, engineering, fuel, etc to complete this work as required on site and site conditions.
19. Bid Item #01 shall furnish and install the W = "Water / Fire Protection work" per Utility notes W1, W2, W3, W4, W5, W6, W7, W8, W10 and W11 on Drawings C502, C503, C504 and C505 in your scope.
- 20. Note W9 on Drawing C503 says to relocate an existing fire hydrant and that work is to be done by Citizens Energy Group. Bid Item #01 is asked to submit an add Alternate price to perform this work.**
21. Bid Item #01 shall extend the domestic water line into the Main Mechanical Room B113, and extend the domestic water line to 12" above the floor with a flange. Test and flush this line to the street to the flange.
22. Bid Item #01 shall extend and run the fire main into the building, into the Main Mechanical Room B113, refer to drawing F201, and extend the fire main to 12" above the floor with a flange. Test and flush this line from the street to this flange.
23. Bid Item #01 shall run the fire department connection line from inside the building out to the FDC on site.
24. Bid Item #01 shall furnish and install the water tie in connection to the existing water main. Plan this to be a live tap and all associated work items and costs.

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25. Bid Item #01 shall include the water tie in connection fees with your bid.
26. Bid Item #01 shall furnish and install the water main, fire hydrants, site fire main, site domestic water, fire department connection, PIV, etc all complete. Allow the building electrician to run his conduit in your trench for the PIV before you backfill please.
27. Bid Item #01 shall furnish and install all concrete including thrust blocks etc to do this work.
28. Bid Item #01 shall include proper pipe embedment material and engineered material for backfill of site utilities.
29. Note, the water meters are planned to be "inside" the new elementary building mechanical room.
30. Bid Item #01 shall furnish and install and provide and maintain traffic controls to perform this work.
31. Bid Item #01 shall provide the select demolition including trees, brush, house, garage, out buildings, sidewalk and well.
32. The Owner will take care of the electrical power, propane tank and any asbestos report.
33. Bid Item #01 shall provide erosion control and pre and post construction. Including silt fence, tree protection fence, rock check dam, erosion control maintenance, erosion control blanket, (Pond Bank and Swales) and inlet protectors. Include permanent seed pond area. Include street sweeping for this work.
34. All other seeding will be by the landscape sub later.
35. Bid Item #01 shall include the earthwork for this project, including concrete washout, debris removal, construction entrance, stripping of vegetation for common excavation and lake excavation. Include any import or export as required per site grades. Include subgrade prep of parking areas and building pad. Lazer grade the building pad. Respread topsoil to the site areas with at least 6" compacted everywhere.
36. Bid Item #01 shall pick up rocks, sticks etc from the topsoil. Rock rake as needed to make soil clear of debris for seeding and landscape work.
37. Bid Item #01 shall grade and fine grade the topsoil and landscape areas complete.
38. Bid Item #01 to include a clay liner to the pond if required.
39. Bid Item #01 shall provide "all storm drainage work" on this project. Including work shown on C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C601, C602 , C603, etc.
40. Bid Item #01 shall include the storm drainage noted D1, D2 and D3 on drawings C502, C503, C504, C505 complete.
41. Bid Item #01 to include the details as shown on Drawings C601, C602 and C603 as relates to your scope of work.

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42. Bid Item #01 to include the technical specifications sections as noted below.
43. Bid Item #01 to include the storm manhole pipes, end sections, inlets, manholes, pond outlet structures, rip rap, emergency spillway, and the 6" SSD underdrain with sock at the playing field.
44. Bid Item #01 to include #8 stone bedding for storm pipes for Fishers Specs and engineered fill under all roads, drives, walks etc.
45. Bid Item #01 to include the SSD inlet leaders
46. Bid Item #01 to include the 12" roof drain line trunk lines to the face of the building foundation wall including the specified cleanouts.
47. Bid Item #01 shall include "Dewatering" to build the wet detention basin.
48. Bid Item #01 shall provide the "Maintenance Bond" for the work in the right of way with your bid. This includes the terms per City of Fishers and or Hamilton County Highway Department.
49. Bid Item #01 shall include all survey work and construction staking to perform this work. Make sure you include staking the parking lots in a grid to make sure we are on grade before stone is put down and then to be checked again before the future asphalt sub will work from it.
50. Bid Item #01 shall provide all excavation work for all sidewalks, curbs, driveways, roads, drives, and paths.
51. Bid item #01 shall not include the building foundation excavation work in this bid, that work will be in a future bid package. Bid Item #01 shall provide the building pad.
52. Bid Item #01 shall furnish and install the compacted stone base under all sidewalk, curbs, driveways, drives, road, walking paths, turn lanes, passing blisters, accel, decal lanes etc the required depth.
53. Bid Item #01 shall provide a loaded dump truck for proof rolls of each area and work with the Owner material testing agent.
54. Bid Item #01 shall be responsible to air dry the compacted soil, disc, compact in lifts, work the soil to naturally dry, in the even the lime stabilization alternates are not accepted and approved.
- 55. Bid Item #01 shall provide an add alternate price to add four (4) inches of compacted #53 stone over the building pad. With this alternate, the pad height would be adjusted to account for this added stone.**
56. Bid Item #01 would coordinate with the future electrical sub for the underground site conduits to be installed for such things as site lights etc.
57. Bid Item #01 will include all additional grading work associated with the added lime work in their respective bid alternates.

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Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

Section All Sections Included

DIVISION 01 GENERAL REQUIREMENTS

Section All Sections Included

DIVISION SITEWORK:

| | |
|---------|---|
| Section | 01 56 39 – Tree Preservation |
| Section | 02 41 16 – Demolition |
| Section | 03 03 01 – Site Cast In Place Concrete (only as applies to this scope of work) |
| Section | 22 11 13 – Facility Water Distribution Piping |
| Section | 31 10 00 – Site Clearing |
| Section | 31 20 00 – Earthmoving |
| Section | 31 25 00 – Soil Erosion Control |
| Section | 33 01 00 – Site Natural Gas Service (for coordination) |
| Section | 33 46 05 – Granular Base |
| Section | 33 41 00 – Storm Drainage Piping |
| Section | 33 46 05 – Playground SubDrainage |

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Bid Package #01, Bid Item #02 – Sanitary Sewer Work:

The work indicated in the contract/subcontract document specification sections listed below, scope of work list, and as shown on the drawings are specifically included but are not limited to this subcontract scope:

In general this Contract includes, but is not limited to, furnishing all tools, equipment, materials, supervision and labor to perform the work set forth in the Plans and Specifications.

Although specifications are allocated to the respective “Contracts”, it is the intention of the Construction Manager that each Contractor read and be familiar with all Specification Sections and plans assigned to the other Contractors and be responsible for any related work called for in non-assigned Specification Sections.

The following scope of work list complements the work that is included in the Specification Sections listed below:

1. Bid Item #02 shall provide all Sanitary Sewer Work for this project complete.
2. Note, This Bid Item #02 Subcontractor must be on the approved SAMCO contractor installation list for Gravity Sanitary Sewer work to bid on this project and to perform this work. Refer to the current list on SAMCO website, HSE Utilities.Com
3. Bid Item #02 shall provide all dewatering, including tools, equipment, pumps, motors, generators, engineering, fuel, etc to complete this work as required on site and site conditions.
4. Bid Item #02 shall read and follow the two (2) land survey drawings provided in the bid set.
5. Hagerman will provide three (3) control survey points on site for this subcontractor to work from.
6. Bid Item #02 shall provide all survey work to perform this work.
7. Bid Item #02 shall furnish and install the Sanitary Sewer to the face of the foundation wall and include the cleanouts near the building.
8. Bid Item #02 shall furnish and install the Sanitary Sewer line per the drawings and include the S – Sanitary Sewer work, S1, S2, S3 and S4 on Drawing C502, C503, C504 and C505.
9. Bid Item #02 shall furnish and install the 6” and 8” Sewer line, per note S1 on Drawing C502, C503, C504 and C505.
10. Bid Item #02 shall furnish and install the grease trap, per note S2 on Drawing C502, C503, C504 and C505. Also refer to drawing P200B which calls this a GI-1, and the

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plumbing specification below for this grease trap.

11. This is our preliminary specification for the grease interceptor:

Kitchen waste interceptor shall be a precast basin constructed in accordance with ASTM C 1613 for materials and manufacture, structural design requirements, physical design requirements, quality control and sampling, water tightness testing, dimensional variations and product marking. Interceptor shall be constructed with minimum 4000 lb. strength concrete, complete with manhole openings, cast iron manhole frames and gas tight covers, and internal baffles, as detailed on the drawings. Precast concrete mixture shall include an integral crystalline waterproofing admixture tested for permeability to USACE CRD-C-48-73, chemical resistance to ASTM C267, and NSF 61 approved for use in potable water applications. Dosage rate for crystalline waterproofing admixture shall be in accordance with the manufacturer's recommendations. Crystalline waterproofing admixture shall be equal to Penetron Admix as manufactured by ICS Penetron International. Interceptor and installation shall comply with all applicable State and local code requirements.

Robert Freeman, CPD, LEED AP BD+C | Senior Plumbing Designer
Heapy Engineering | LEED Gold |
3850 Priority Way South Ste 204 | Indianapolis IN 46240
(P) 317-571-8795 | www.heapy.com

12. Bid Item #02 shall furnish and install the sampling manhole per note S3, on Drawing C502, C503, C504 and C505.

13. Bid Item #02 shall furnish and install the external drop and work per note S4, on Drawing C502, C503, C504 and C505.

14. Bid Item #02 shall provide 95% Modified Proctor Compaction to all the trenches for this work including drives, roads and yard areas.

15. Bid Item #02 shall furnish and install the Sanitary Sewer complete from face of building to the existing manhole. Include the Sanitary Sewer Plan and Sanitary Sewer Profile notes and details in your scope on drawing C510.

16. Bid Item #02 shall include the City of Fishers standards for construction with your work per drawing set Sheet 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13.

17. Bid Item #02 shall include and incorporate the SAMCO, HSE, gravity sanitary sewer details per sheets 1 of 2, 2 of 2 and the Specification sheet, and the Grease interceptor sanitary sewer detail drawing, with this scope of work.

18. Bid Item #02 shall include all layout, survey, excavation, dewatering, trench box, trenching, shoring, pipe embedment materials, etc, for a complete project.

19. Bid Item #02 shall include all concrete work as required for this work.

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20. Bid Item #02 shall be responsible to keep the mud and dirt off of the City and County streets and roads for your work activities.
21. Bid Item #02 shall provide all dewatering, including tools, equipment, pumps, motors, generators, engineering, fuel, etc to complete this work as required on site and site conditions.
22. Bid Item #02 shall include the Sanitary Tie In costs.
23. Bid Item #02 shall include all sanitary sewer testing as called for on the drawings and as required by SAMCO in your bid.
24. Bid Item #02 shall include all pipe embedment materials, and engineered backfill as required and called for on the drawings and specs.
25. This scope includes tie in to existing manhole #410 and noted modifications to this manhole. This scope also includes new manholes #411 and #412, and the new cleanouts and the new sanitary sewer piping.
26. Make sure all submittals get approved by SAMCO before starting work.
27. Bid Item #02 shall confirm invert of the existing manhole #410 and the invert of where the sewer line will meet the building foundation wall line before starting work.
28. Bid Item #02 shall include all dewatering as required to complete this work.
29. Bid Item #02 shall include all required SAMCO Fees for this work in their base bid.

Refer to the Preliminary Project Schedule and Bid Alternates (Section 01 23 00) for information on schedule, phasing and alternates. Work shown on the drawings and as defined in the following Specification Sections is specifically included in this contract scope:

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

| Section | All Sections Included |
|---------|-----------------------|
|---------|-----------------------|

DIVISION 01 GENERAL REQUIREMENTS

| Section | All Sections Included |
|---------|-----------------------|
|---------|-----------------------|

DIVISION SITEWORK:

| | |
|---------|---|
| Section | 03 03 01 – Site Cast In Place Concrete (only as applies to this scope of work) |
| Section | 22 13 14 – Facility Sanitary Sewers |
| Section | 31 20 00 – Earthmoving (only as applies to this scope of work) |
| Section | 31 25 00 – Soil Erosion Control (only as applies to this scope of work) |