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BID CATEGORY BP. NO. 1 GENERAL TRADES SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
03 10 00	CONCRETE FORMING AND ACCESSORIES
03 20 00	CONCRETE REINFORCING
03 30 00	CAST-IN-PLACE CONCRETE
03 41 00	PRECAST STRUCTURAL CONCRETE
03 41 30	PRECAST PRESTRESSED HOLLOWCORE SLAB UNITS
06 10 53	MISCELLANEOUS ROUGH CARPENTRY
06 16 00	SHEATHING
07 13 26	SELF-ADHERING SHEET WATERPROOFING
07 21 00	THERMAL INSULATION
07 24 19	WATER DRAINAGE EXTERIO INSULATION AND FINISH SYSTEM (EIFS)
07 26 00	VAPOR RETARDERS
07 81 00	APPLIED FIREPROOFING
07 81 23	INTUMESCENT FIREPROOFING
07 84 13	PENETRATION FIRESTOPPING
07 84 43	JOINT FIRESTOPPING
07 91 00	PREFORMED JOINT SEALS
07 92 00	JOINT SEALANTS
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 11 13	FLUSH WOOD DOORS
08 31 13	ACCESS DOORS AND FRAMES
08 31 19	SECURITY ACCESS DOORS AND FRAMES
08 33 23	OVERHEAD COILING DOORS
08 34 63	DETENTION DOORS AND FRAMES
08 36 13	SECTIONAL DOORS
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 44 13	GLAZED ALUMINUM CURTAIN WALLS
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09 69 00	ACCESS FLOORING
09 84 10	FIXED SOUND ABSORBING PANELS—Delete per Addendum No. 2
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10 73 16 ALUMINUM CANOPIES
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31 10 00 SITE CLEARING
31 20 00 EARTH MOVING
31 23 19 DEWATERING
31 50 00 EXCAVATION SUPPORT AND PROTECTION
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32 13 13 CONCRETE PAVING
32 13 73 CONCRETE PAVING JOINT SEALANTS
32 14 00 UNIT PAVING
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32 31 19.53 DECORATIVE METAL SECURITY FENCES AND GATES
32 91 13 SOIL PREPARATION
32 92 00 TURF AND GRASSES
32 93 00 PLANTS
33 05 13 PRECAST CONCRETE MANHOLES AND STRUCTURES

33 41 00 STORM UTILITY DRAINAGE PIPING
33 46 00 SUBDRAINAGE

This Bid Category Scope of Work describes and assigns Work to this Bid Category as designated by the Construction Manager. Each Contractor shall cooperate and coordinate with all other Bid Category Contractors for proper and expedient completion of the Work in this Project. This summary should in no way be construed as being all inclusive. It is issued as a guide to aid in the assignment of Work and is intended to clarify and/or further define the Scope of Work included in the Bid Documents. They shall not be construed as the entire Scope of Work for this Bid Category. All work described or indicated in the respective Specifications Sections or Divisions listed above shall be included, except as specifically excluded herein.

- A. General items to be included in this scope of work
1. Provide all surveying and layout required to complete the work of this category. This shall include providing control layout points/lines for all other trades.
 2. Include an allowance for CM Directed Work in the amount of 1,750 manhours. This allowance will be used at the direction of the Construction Manager for coordination, safety, cleanup and any other item deemed necessary by the Construction Manager. All unused portions of this allowance shall be returned to the Owner via a deductive change order.
 3. Contractor shall provide and install all temporary roads, parking areas and laydown areas for the project. This will include the installation of stone roads and pathways throughout the duration of the project. All areas shall be installed and maintained such that they do not hold water, they do provide proper access for equipment and materials to the building and are removed upon the completion of the work. It is anticipated that all access roads will follow the paved areas and the grass paver areas currently shown on the construction documents. Additional access lanes are to be provided around the building as necessary for the construction of the project. This will include access for jail cells, cranes, trucks, etc. Maintenance of the roads shall include adding stone as necessary for road maintenance and the removal of accumulated mud and/or dirt.
 4. Provide all snow removal for the project site. Contractor shall remove snow so that all access and parking areas are accessible.
 5. This scope shall include all associated work for the entrance road from Honey Creek Drive to the project site as indicated in Areas "E" & "F" in the Site Development drawings
 6. Provide a telescoping boom fork truck lift on site starting with the commencement of concrete foundations and continuing until project completion as directed by CM. The fork lift is intended for general site usage (deliveries, group clean-ups, miscellaneous material laydown organization). Individuals using the lift will be responsible for providing their own operator. The general laborer time is intended for miscellaneous activities as requested by CM (clean-up, maintaining fall protection, etc.). Labor hours will be tracked using a log in the CM trailer that will require sign-off of all hours spent from the General Trades Contractor and CM superintendent.
 7. Provide the final clean for the entire project. This shall include all sweeping, vacuuming, dusting, waxing of floors, glass cleaning (inside and outside), cell cleaning, cleaning of showers, toilets, furniture, inside and outside of cabinets, walls moldings, etc. for complete clean of the entire project.

B. Demolition

1. Contractor will provide all labor, materials and equipment necessary to demolish complete, all materials indicated to be demolished in the Contract Documents.
2. All demolished materials shall be removed to a dumpster provided by the Construction Manager.
3. Sawcut all existing pavements prior to removal. Repair any damages that may occur to existing pavements to remain.

C. Erosion Control

1. Furnish and Install all erosion control turbidity barriers, silt fence, hay bales, etc. as needed to protect adjacent property and all utilities. This Contractor will maintain erosion control daily for the entire project during the performance of this scope of work and until completion of the project and will decommission and clean as required at completion.
2. If drainage systems are infiltrated with sedimentation, Contractor shall clean all effected pipes and structures of dirt.
3. It is the responsibility of this Contractor to protect all trees and vegetation designated to remain.
4. This Contractor is responsible for dust control and traffic control (including traffic control signage required) for the duration of the project. All mud, dirt. Sand or other material tracked or spilled onto existing public and / or private road shall be removed and cleaned by this Contractor daily or as directed by Garmong. Also, water trucks, hoses and any other necessary means will be utilized to minimize and control dust onsite.
5. Maintain all erosion control measures for the duration of this project.
6. Install all stone. This includes installation and maintenance of stone for construction entrances and drives for the life span of the project.
7. Provide all required temporary seeding that may be necessary due to inactivity.
8. This scope shall include the removal of all erosion control measures installed on the project and remediation of any disturbed grades due to this work. This shall include grading and seeding of the ditch line where the silt fence is removed.
9. Inspect and repair all erosion control measures weekly and following all rain events. Provide written report of these inspections to the authorities having jurisdiction.

D. Earthwork

1. This Contractor is responsible for locating all existing utilities prior to work operations. Furnish, install and coordinate all private utility locator's services as required prior to commencing this work. This Contractor agrees that any existing utilities that may be damaged during work shall be repaired at this Contractor's expense.
2. All dewatering as required for the performance of this bid package.
3. Wherever work encroaches on existing sod or paved areas, restore those areas to original condition after completion of the work. This includes all sod, new asphalt, new concrete, grading or other work required to complete the renovated area.
4. Include all tree removal/demolition required for the installation of work of this bid package. Regrade all areas where demolition occurs and utilities are installed, ready for final landscaping, and install temporary seeding.
5. All necessary traffic control and barricades for the proper and safe execution of the Work shall be furnished and maintained by this Contractor.
6. The Contractor shall dispose of any unsuitable materials off site.
7. This Contractor understands that there will be "out of sequence" work with respect to the work and has included such in this agreement.

8. The services of the soil engineer to perform soil testing, inspection services, and concrete testing will be provided by others. Contractor shall be responsible for coordinating with these services. The soil testing, concrete testing, and inspection does not in any way relieve the Contractor of its overall responsibility.
 9. Spoils generated by the stone column work will be removed and/or used.
 10. Contractor is responsible for all quantities of soil on site. This includes any import or export as needed for proper completion of this work.
 11. Site clearing including all grubbing and topsoil removal of the site.
 12. All excavation, cuts, fills and grading as required by the contract documents.
 13. All backfill and compaction as required. This shall include the backfill and compaction of all demolished structures and utilities and subsequent excavations left by their removal. All backfill shall be compacted to meet requirements set for in the geotechnical soils report.
 14. Proof roll the entire site once stripped of topsoil to determine locations of any unsuitable materials and remove.
 15. The site shall be maintained such that water will not be allowed to pond on the site or building pads.
 16. Construction of all building pads, with proper compaction, to within +/- one tenth of a foot of subgrade elevation.
 17. Establish, protect and maintain all excavations and slopes to provide a safe work area.
 18. Install a minimum of 6" of topsoil at all finished areas.
 19. Grade and construct all roads, sidewalks and curbs to subgrade elevation, +/- one tenth of a foot.
 20. Backfill and rough grade at all buildings, sidewalks, curbs, roadways, planters, and any other area that may be required.
 21. Coordinate location of spoil piles with other trades. All spoil piles are the responsibility of this Contractor.
 22. Provide and install all granular fill (aggregate base) at all areas receiving asphalt paving. Coordinate this work with the Asphalt Contractor. All asphalt aggregate base shall be installed to within +/- 0.1'.
 23. Provide and install all aggregate surface
- E. Division 3 Concrete
1. Provide and install all concrete required for the project. This shall include all labor, materials, equipment and supervision necessary to install a complete concrete package inclusive of building and site concrete. This work shall include, but not limited to, the following:
 2. Provide all surveying and layout required to complete the work of this category. This includes the establishment of a benchmark and control on site.
 3. Form, place, and finish all concrete footings, foundation walls, stoop turndowns, frost walls, column pads, retaining walls, and piers including all associated reinforcing steel as indicated or required. Provide all dowels required to anchor masonry walls to allow for lap lengths specified. Note vertical reinforcing requirements at security walls. Provide and maintain rebar caps on all dowels until fully embedded in masonry.
 4. Form, place and finish all interior and exterior concrete slabs, slabs on deck, precast concrete topping slabs, concrete stoops/turn-downs, and thickened slabs including all vapor barriers, expansion joint material, bond breaker material, control joints, associated dowels, wire mesh, and all other steel reinforcing. Assure curing method selected is

- compatible with floor finishes specified and provide complete coordination with all floor finishes. FF/FL testing within 24 hours after finishing is to be provided by this contractor. Provide bonding agent between precast concrete plank and topping slabs. This contractor shall be responsible for preparing substrate to receive concrete (examples include vacuuming, sweeping, cleaning, or drying precast or metal substrate.) Recess concrete floor slabs at all tile locations to allow tile to flush out with adjacent flooring.
5. Provide all excavation, backfill, compaction, and grading associated with completion of this bid category including building and site concrete. Provide all granular base fill and fine grading under concrete provided as part of the work of this category. Provide final compaction of the exposed top surface of stone columns using hand operated mechanical equipment.
 6. Provide all miscellaneous cast in place concrete items such as benches, beds, wall caps, concrete shower curbs, locker bases, etc.
 7. Provide and install all hooked dowels at precast concrete.
 8. Coordinate installation of all concrete wall/slab/grade beam penetrations with Earthwork, HVAC, Plumbing, Fire Protection, Security Electronics, and Electrical Contractors. Sleeves for penetrations will be furnished and laid out by others for installation in formwork by this contractor.
 9. Provide all water stop, chamfers, and other concrete accessories as indicated, specified, or required for completion of this category.
 10. Provide positive drainage on all floors with floors drains and provide slope from room perimeter where indicated. Coordinate with flooring trades and plumbing contractor.
 11. Contractor will be responsible for removing and replacing any new concrete that is deemed to not meet the contract documents through independent testing as well as any concrete that fails due to improper protection from weather conditions.
 12. Form, place and finish all exterior mechanical and electrical equipment pads (Generator and Chiller pads). Coordinate the work for the proper size and layout of the pads with the Mechanical & Electrical Contractors. All interior concrete equipment pads shall be installed by the Contractor associated with that work.
 13. Provide all temporary weather general conditions associated with completion of this scope of work including snow removal within the building footprint, ground thawing, and all cold and hot weather concrete procedures and protection as well as rain protection.
 14. Dewatering and mucking of excavations shall be the responsibility of this Contractor.
 15. Layout and set all anchor bolts provided by Structural Steel Contractor. Grout all base plates after columns are set and elevations are finalized by Structural Steel Contractor. Provide asphalt-mastic paint on portions of columns below grade according to structural details.
 16. Finish all concrete slabs to the required finish standards. This shall include meeting all levelness and flatness criteria and installing required sealers.
 17. Include all hoisting and placement equipment necessary to install all concrete.
 18. All underslab vapor barrier shall be included.
 19. All precautions (blankets, admixtures, heat, etc.) for cold weather concrete according to ACI and/or industry practice shall be included.
 20. Installation of all embedded plates, angles and other misc. steel shall be included. Embeds are provided by others
 21. All exposed concrete shall be rub finished

22. Grouting of all base plates after steel erection shall be included.
23. Provide all concrete for pan fill stair treads and landings. This work will be completed as soon as possible as stairwells become erected. Provide all interior and exterior cast in place concrete stair systems complete.
24. Provide all site concrete and associated reinforcement as indicated per the documents. Site concrete includes, but not limited to all concrete paving, sidewalks, curb & gutter, mow strips, maintenance strips, screen walls, security walls; security bollards, signs and sign bases, stoops, curbs, pads, ramps, approaches flagpole bases, etc. Provide concrete encasement for bollards, pedestals, signage, etc. Provide all steel bollards for this work and install. Provide barrier free textured warning surfaces at ADA ramps where indicated.
25. Where building concrete is to remain exposed patch if needed to provide a uniform surface suitable for finished materials.
26. Provide recessed insulated floor system under walk-in cooler/freezer.
27. Concrete wash out area will be created and maintained by this contractor.
28. Provide and install all granular fill at cast-in-place benches. Reference detail 14/S-531 as an example.
29. Provide and install all concrete curbs at openings in precast planks.

F. Precast Concrete & Prestressed Hollow Core Slabs

1. Provide and install/erect all precast structural concrete and precast prestressed hollow core concrete. Include engineering, fabrication, shipment, delivery, equipment, grouting and all misc. steel required as part of a complete engineered system. Provide all reinforcing integral to precast. Provide all steel embeds for attachment of other building systems. Carefully review architectural and structural drawings for locations where embeds are required. Specifically note embeds associated with mezzanine, stair attachments, and steel pour stops. All reinforcing between precast and masonry above is to be provided by the contractor of this bid category.
2. Provide all engineering and design as required by the contract documents. Coordinate drawings with all other contractors for proper opening sizes and locations.
3. Accommodate all openings, structural elements, temporary access, etc. needed or required for the construction of this project.
4. Include knockout panels to allow access of all prefabricated cell units. Cell units are assumed to be double stacked in height. Coordinate this work with the DEC contractor for proper opening size and locations.
5. Coordinate all work with the Steel and Masonry Contractors to ensure proper bearing and locations for all work.
6. Provide all bearing pads for installation by others. This shall include detailed drawings indicating all embed locations.
7. Provide all miscellaneous precast accessories necessary to complete this scope of work including, but not limited to all bond break material, bearing pads, and slip pads, shims, hangers, clips, anchors, etc.
8. Prior to site mobilization, coordinate the installation of all work with the Construction Manager and other onsite contractors. Installation of precast will need to be coordinated with the Steel and Masonry contractors for proper installation of all work by each trade.
9. Provide and install all reinforcing extending from precast panels and/or hollow core planks. This shall include all reinforcing at knockouts of hollow core planks and the grouting in place of all reinforcing.

10. Provide all embeds for precast concrete and hollow core slabs at masonry and cast-in-place concrete for installation by others. Provide layout drawings for proper installation and location of each embed.
11. Provide and install all steel embeds in precast units for bearing of other work. This would include, but not limited to, embeds for structural steel, miscellaneous steel, metal joist, metal decking, stairs, etc.
12. At beam and/or joist pockets, construct the pocket large enough for the proper installation/welding of the support member.
13. Weld precast embeds to support steel where applicable.
14. Grout all gaps, keyways, cracks, voids, plank cores, and lifting openings as shown and as required for a complete system. Provide and remove all temporary grout stops and patch holes made by grout stops and/or remove excess spray foam to prepare for subsequent finishes.
15. Assume multiple mobilizations may be required due to differing areas of construction and coordination between trades.
16. Provide, install and remove all temporary bracing required for the proper installation of this work. All bracing shall be installed to fully support this work until such time as the remaining structure is complete. This includes providing and installing and removing any/all deadmen required for proper bracing. Following final connections, all shoring and bracing and deadmen shall be removed and any holes or damaged surfaces shall be repaired to match the surrounding finish. Coordinate all shoring installations to not inhibit the erection of precast concrete, structural steel or masonry walls.
17. Provide for any MEP rough-in in precast plank cores. Coordinate locations to leave cores open for rough-ins. Notch planks in the field during installation where rough-ins will extend beyond top of masonry walls at bearing locations.
18. Provide field verification prior to mobilization of all bearing wall locations, elevations, and conditions. Immediately notify CM of any unacceptable conditions.
19. Provide OSHA compliant hole covers for all openings in precast 2" and bigger and leave covers in place after each erection sequence. Hole covers will be maintained and removed by others.
20. Design additional capacity to support masonry as indicated on the structural framing details.
21. Provide field patching of all exposed precast surfaces. Include multiple mobilizations to provide field patching in addition to precast erection mobilizations required per this scope of work.
22. Provide winter conditions associated with erection of precast during the winter including heating substrate, snow and ice removal from bearing walls, and heating grout as well as all other winter conditions necessary.
23. This contractor will be responsible for providing temporary fall protection guard rails around the entire perimeter of all areas of precast concrete plank. Install temporary fall protection immediately after erection sequence to make safe for subsequent trades to avoid the need for tie-off. Fall protection is to comply with OSHA requirements. Provide removable sections to allow for movement of materials and removal of trash and debris to precast levels. Remove temporary fall protection when directed by CM and patch exposed substrate to prepare for finishes.

G. Storm Sewer System

1. Provide and install a complete and operational storm sewer system as defined by the

- contract documents. This shall include all piping, drywells, castings, sealants, bedding, backfill, excavation, testing etc. for a complete and operational system.
2. Include all required excavation, backfill, bedding materials and compaction as required by the contract documents for storm sewers
 3. Install all castings as indicated for the storm sewer system.
 4. Provide all required State and Federal safety measures for this work. Should any unsafe work activity be observed, Garmong will halt all work until the unsafe condition is abated.
 5. Provide all required testing of piping systems. Coordinate this with all local authorities having jurisdiction.
 6. All piping shall be run to within 5'-0" of the building footing wall. Provide final connections.
 7. Ensure all storm sewer installations maintain proper clearances from sanitary sewer piping and water mains.
 8. Provide as-built drawings for all storm sewer installations.
 9. Install all under drains, perimeter drains and foundation drains, as indicated.
 10. Route storm piping to all downspout locations. Provide a "turn up" connection sized for the downspout specified for each location.
- H. Stone Columns
1. Design, provide and install a complete stone column system. This shall include all labor, materials, equipment and supervision required for a complete system. This work shall include but is not limited to the following:
 2. Engineer stone columns as required by the contract documents. Shall include a licensed engineer in the state of Indiana to approve and stamp the drawings.
 3. Contractor will be responsible for all layout of this work.
 4. All pier installations shall occur approximately 1'-0" above final grades.
 5. Contractor shall work with the soils testing inspector to ensure all loading is achieved. Record documents of all installation shall be provided at the end of the project to verify a successful installation. This shall include as-built drawings indicating center of pile locations, and top/bottom elevations of all columns.
 6. Any corrections needed due to incorrect placement, installation or design shall be the responsibility of this Contractor.
 7. Storage and stockpiling of materials will be coordinated so to not affect ongoing work elsewhere on the site. Contractor shall include all necessary hauling of materials not only to the site, but on the site as well.
- I. Landscaping
1. Provide and install all landscaping as indicated by the contract documents. This shall include all labor, materials, equipment and supervision for a complete and professional landscape installation.
 2. This work shall include all seeding, mulch, plants, trees, bushes, flowers, site amenities, benches, trashcans, etc.
 3. All topsoil shall be tested for soil nutrient characteristics and amended for the intended plant growth.
 4. Provide and install all grass pavers. This shall include all stone subgrade, pavers, sand, etc. for a complete system.
 5. Install all erosion control measures necessary to ensure proper growth of grass and eliminate soil erosion. Remove these protections upon establishment of seed growth.
 6. Include watering of plantings until establishment.
 7. Provide and install all chain link fencing, site fencing, security fencing, decorative metal

security fencing, gates, chain link overhead security barriers and barbed tape including all chain link fence fabric fence framing, tension wire, barbed wire, grout, concrete, fence grounding, fittings, and hardware complete. Provide all mow strips along security fencing as indicated on fencing details sheet C105.

8. Provide and install all security bollards and associate work including all concrete & excavation work.
9. Provide and install the louvered screen panel system alternate.
10. Provide and install the smoking shelter
11. Provide and install all outdoor furniture. This includes the tables, chairs, benches, etc.

J. Division 6 Work

1. Contractor shall provide all blocking, bracing and/or backing required to adequately support all wall hung fixtures and equipment (cabinets, lab casework, furniture, toilet accessories, tack boards, handrails, fire extinguisher cabinets etc.) specified on the contract documents. Comply with stud manufacturers recommendations and industry standards in each case considering weight or load resulting from item supported. This Contractor will meet with each related Contractor and the Construction Manager to coordinate blocking and backing work.
2. Contractor shall supply to Garmong coordinated blocking drawings indicating all in-wall blocking required for anchoring the work. However, this shall in no way relieve the Contractor of its responsibility to properly secure the work of this scope.
3. Contractor shall furnish and install all fasteners, anchors, and miscellaneous accessories as required for the complete installation of the work of this scope.
4. Provide and install all wood blocking at the roof. Coordinate blocking depth with Roofing Contractor for proper depth and anchorage requirements.
5. Include plywood backboards for equipment. All plywood shall be smooth finish and painted black prior to equipment install.
6. Include any reinforcing for doors & frames.
7. Include all blocking at exterior openings in the building.
8. Provide and install all building expansion joints. Roof expansion joints will be provided and installed by the roofing Contractor.
9. Provide interior trim and shelving including clothes rods, blocking, anchors, adhesives, joint sealants, putty, and accessories as indicated and required for a complete system. Provide prefinished hardware where indicated; include wire shelving if shown.
10. Provide and install all access flooring. Provide all cutouts for grilles, equipment and furniture that may be required.

K. Division 7 Work

1. Waterproofing, weather barriers, perimeter insulation, EIFS, vapor retarders, fireproofing, intumescent fireproofing, firestopping, preformed joint seals, and sealant per the Contract Documents.
2. Provide all reinforcing, mesh, surface preparation, etc. necessary for the proper adhesion of all fireproofing materials to the surfaces and/or structures they are being applied to.
3. Fire Protection Contractor, Mechanical Contractor, and Electrical Contractor are responsible for firestopping wall penetrations in rated walls and smoke tight partitions.
4. Prepping of substrates for application of fireproofing. Contractor shall notify Garmong in writing prior to application of fireproofing of any surface that is not acceptable. Start of work shall be acceptance of surfaces by this Contractor.

5. Provide and install all sealants as indicated or required herein. This shall include but not limited to the following:
 - a. Precast joints
 - b. Masonry control joints
 - c. Casework and millwork including countertops, backsplashes and trims to themselves or dissimilar materials.
 - d. Security caulking
 - e. EIFS control joints
 - f. Door frames (walls and floor).
 - g. Caulking of all storefront is included in this scope of work. This includes all interior and exterior caulking including floors.
 - h. Expansion joint caulking
 - i. Control joint caulking
 - j. Sidewalk joints
 - k. Caulking of plumbing fixtures
 - l. Caulking of tile to countertops
 - m. Caulking of lab casework.
 - n. Plumbing fixtures
 - o. Site concrete paving
 6. All sealants to match adjacent surfaces.
- L. Division 8 Work
1. Provide all non-detention hollow metal doors and frames including all anchors, glazing, and accessories. Any frames not on site in time for masonry will be left open and this category will pay mason's premium to tooth-in frame. The Masonry Contractor will grout frames.
 2. Provide installation only of all Security access doors and frames. Security doors will be furnished by the detention equipment contractor
 3. Provide all flush wood doors complete where indicated including all glazing and accessories. Provide protection to cover wood doors after installation.
 4. Provide door position indicator device compatible with security electronics system. Provide complete engineered system that meets performance criteria from the contract documents.
 5. Coordinate electrified controls with DEC and Electrical Contractors prior to ordering doors to ensure proper operation with electrical and security electronics systems.
 6. Provide all non-detention door hardware in openings provided as part of this bid category as well as all non-detention door hardware in security openings. Refer to all pages of the contract drawings for locations of automatic door operators and push pads provided as part of this scope of work (specifically electrical drawings). Electrified non-detention hardware is to be wired and terminated by the Electrical Contractor. Provide construction keying in exterior non-detention door openings. Provide all permanent keying in non-detention door openings provided as part of this scope of work coordinated with owner, CM, Architect, and lock supplier. Provide all key controls including key management system, key cabinet, and fire department lock box.
 7. Include all hoisting and transportation for the delivery and installation of doors, frames and hardware
 8. Contractor shall install all hollow metal frames under this scope. Care should be taken to insure that frames are installed in a true, level, square and plumb fashion. This Contractor shall remove hollow metal frame spreaders.

9. Ensure all frames are true, level, square and plumb following framing and drywall activities. Any repairs will be made by this Contractor
10. Install all Doors and Door Hardware complete and ready for operation. All access door hardware will be supplied and installed by this Contractor. This work shall be coordinated with the Electrical Contractor to interface with the security systems.
11. All required final hardware adjustments and punching out of the work as required for a properly functioning system at the time of Substantial Completion and Owner acceptance is included.
12. Contractor shall be responsible for protection of all hardware and wood doors until installed and accepted by the Construction Manager. Removal of shipping protection materials and depositing in the job site dumpsters is included in this scope of work.
13. Coordinate keying and installation of cores with the Owner and Garmong. Contractor will install all cores as per their direction.
14. Provide any/all access doors indicated on the reflected ceiling drawings. All access doors not shown but required for Mechanical, Plumbing or Electrical access will be provided and installed by the Contractor requiring the access door
15. Install only all detention door frames, tear gas ports, chase doors and security access doors furnished by Detention Equipment Contractor. DEC will provide on-site training before beginning this work. General Trades contractor is to receive, unload, inspect, maintain inventory, and protect detention frames prior to installation. Frames are to be delivered prior to the start of above grade masonry and stored by the General Trades Contractor until installed. Where frames are delivered in sections due to shipping limitations or where detention frames are to be installed tight to other frames and structural steel, this contractor will be responsible for welding frames together and installation of Bondo to provide a seamless installation. Coordinate with DSC. Frames will be grouted by the Masonry Contractor. The General Trades contractor will be required to Bondo over grout holes where required to grout frames under steel framing.
16. All non-detention doors and frames identified to receive detention glazing are to be provided with 1-1/4" glazing stops and rabbits that provide 1" of bite on detention glazing to maintain the warranty from the detention glazing manufacturer.
17. At non detention openings provided as part of this scope of work, provide all wiring pigtailed within door panels.
18. Provide and maintain in base bid (4) temporary doors and framing for construction access into the building through the exterior skin of the building, approximately 12'x12'. Remove these doors and framing as directed by the CM. It is assumed that these temporary doors
19. Provide and install all Aluminum Framed Entrances and Storefront, Aluminum Curtain Walls, labor, material, equipment, supervision and services required for complete and operational, Glass & Aluminum Windows, Doors, Storefront, Fiberglass Sandwich Panel Assemblies and Glazing work, including but not limited to:
 - a. Provide all aluminum entrances and storefront systems. This shall include all interior and exterior aluminum systems.
 - b. Provide all aluminum headers, soffits, closures, and extensions of material within plane of window/storefront systems to close building envelope.
 - c. Automatic entrances as indicated. This includes automatic door operators and sliding doors.
 - d. Flashings, sill trim, weeps, etc. – All assemblies as required ensuring performance against water infiltration in accordance and in coordination with exterior wall consultant's recommendations.

- e. Provide and install all glass. This shall include all vision, mirrors, decorative, spandrel, interior and exterior glass.
- f. All skylights with fiberglass sandwich-panel assemblies
- 20. Provide temporary protection of window, glazing, frames, doors, and storefronts.
- 21. This Contractor shall remove all dirt, grease, stickers, glue, and markings when directed by the Garmong project superintendent prior to turnover.
- 22. All glass and glazing including glazing of wood and hollow metal doors, frames and windows is included in this scope. This includes filling nail holes in wood door stops.
- 23. Provide finish of aluminum as specified, including powdered coating systems.
- 24. Provide and install all door hardware as specified in the contract documents.
- 25. Contractor shall reinforce all door and frame components as required to receive and support the hardware application as specified.
- 26. Coordinate and assist with install of all electronic systems.
- 27. Contractor shall be responsible for providing any and all additional supports not shown on the drawings to meet requirements of the work.
- 28. It is the responsibility of this Contractor to coordinate all rough openings with other trades.
- 29. Shop drawings will show opening dimensions for preparation by the other trades. This Contractor shall include a system to accommodate the standard industry tolerances for these abutting trades.
- 30. Provide and install all overhead coiling doors and all sectional doors including manual and electric door operators.
- 31. Provide and install all electrical terminations to the equipment for overhead and sectional doors. This Contractor will be responsible for providing and installing all low voltage wiring and switches.
- 32. Coordinate work with Electrical Contractor for proper installations.
- 33. Contractor shall coordinate door opening sizes and verify opening size and equipment clearance requirements. Modifications to the structure due to incorrect clearance requirements shall be this Contractor's responsibility.

M. Division 10 Work

- 1. Provide and install miscellaneous specialties, including, but not limited to visual display units, signage, lettering, toilet compartments and accessories, welding curtains, fire extinguishers, lockers, evidence lockers, wall protection, shelving, mobile storage shelving, lockbox, canopies, and flagpoles. Work shall include all fasteners, adhesives, blocking, etc.
- 2. Signage per Contract Documents, including foundation for post and panel/pylon signage.
- 3. Coordinate structural support for welding curtains with Structural Steel Contractor.
- 4. Install furnished detention toilet and bath accessories where embedded in masonry.

N. Division 11 Work

- 1. Provide and install all package transfer units, gun lockers, and inmate property packaging equipment. Include anchorage devices and fasteners for complete installation.
- 2. Coordinate electrical requirements with Electrical Contractor.

O. Division 12 Work

- 1. Provide and install all manufactured laminate casework, solid surface materials, stainless steel cabinets & countertops, sills, backsplashes, end splashes, wall caps, undercounter knee protection, countertops, and closet and utility shelving as indicated and required

including blocking, shims, wood stud framing, mounting hardware, countertop support brackets, and accessories. Coordinate locations with flooring, plumbing, mechanical, and electrical contractor. Cut all openings in casework and countertops for electrical and data devices, plumbing fixtures, and piping located behind casework for electrical and data devices. Protect all casework and countertops, using cardboard protection, after installation and remove protection at project completion. Grommets in countertops to be located in the field and installed by this contractor following Owner equipment move-in.

2. Include integral bowls as indicated.
3. Contractor shall provide all additional stiffeners as may be required for the proper performance of the work.
4. Contractor shall field verify all dimensions.
5. Contractor shall include final adjustments of all drawers, doors, and other hardware as may be required by the Architect and/or Garmong.
6. Contractor shall remove, as part of this scope, all manufacturers' labels, stickers, etc. at the conclusion of the contract. Final cleaning of all work is included.
7. Provide and install all window stools.
8. All millwork details and returns shall be as per architectural details unless mutually agreed to and approved on shop drawing submissions.
9. Provide and install all window coverings.
10. Provide and install metal countertops.
11. Provide and install fixed beam seating and institutional furnishing including security fasteners for a complete installation.
12. Provide and install all site furnishings.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

1. Delete Specification Section 09 84 10 Fixed Sound Absorbing Panels from this scope of work.
2. Delete Specification Section 125600 Institutional Furniture from this scope of work.

END BID CATEGORY BP NO. 1 GENERAL TRADES SCOPE OF WORK

BID CATEGORY BP NO. 3 MASONRY SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
04 21 13	BRICK MASONRY
04 22 00	CONCRETE UNIT MASONRY
04 72 00	CAST STONE MASONRY

This Bid Category Scope of Work describes and assigns Work to this Bid Category as designated by the Construction Manager. Each Contractor shall cooperate and coordinate with all other Bid Category Contractors for proper and expedient completion of the Work in this Project. This summary should in no way be construed as being all inclusive. It is issued as a guide to aid in the assignment of Work and is intended to clarify and/or further define the Scope of Work included in the Bid Documents. They shall not be construed as the entire Scope of Work for this Bid Category. All work described or indicated in the respective Specifications Sections or Divisions listed above shall be included, except as specifically excluded herein.

1. Provide all labor, material, equipment and supervision to complete the MASONRY scope of work.
2. The Scope of Work includes laying to all hollow metal frames in masonry wall construction. Material will be furnished by others. Grouting of hollow frames is included in this Scope of Work. This Contractor shall ensure frames are plumb, level, and square before, during and after installation of work.
3. Contractor will remove all mortar and grout from hollow metal frames upon completion of work.
4. Contractor shall protect the inside of all masonry hollow metal frames at the hinges and strikes to keep out mortar.
5. Grout and mortar testing will be by others. Testing shall be schedule with Garmong 24 hours in advance. All cost associated with a failed test will be the responsibility of this Contractor.
6. Provide in place mock-up as required by Garmong and the Owner. Mock-ups shall include the specified mortar and accessories.
7. This Contractor shall be responsible for any additives, heating of materials, and covering of work in place for cold weather conditions.
8. Clean up of mortar droppings and masonry debris from masonry operation shall be performed continuously and immediately following the laying of the work and the area shall be left broom clean.
9. This Contractor will employ a competent scaffold erector with OSHA certification, who will supervise and monitor all scaffolding work and will be onsite when all scaffolding work is in progress or being used. A tagging system must be used to identify out of service and in service scaffolding. The tagging system will be per OSHA requirements.
10. Contractor shall install rebar caps (OSHA Approved) on all reinforcing and maintain daily.
11. If the toilet accessories, fire extinguisher cabinets, valve cabinets, electrical panels, etc. are not delivered in time, provide block outs for these items as per submittal data.

12. Provide washout of excess concrete associated with masonry work to be performed on site at a location directed by Garmong project management. Clean up of this area will be performed by this Contractor weekly.
13. The Contractor shall coordinate with Garmong and other trades, and install sleeves and embedded items built into masonry walls, i.e. expansion joints, metal embeds, etc.
14. This Contractor is responsible to furnish, install, and remove any necessary temporary wall bracing to prevent failure due to wind, etc.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

15. Provide and install all firestopping at the perimeter of masonry walls. This shall include all fire and smoke sealants.
16. Provide and install all compressible fillers in masonry walls.

BID CATEGORY BP NO. 3 MASONRY SCOPE OF WORK

BID CATEGORY BP NO. 4 STRUCTURAL STEEL SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
05 05 53	SECURITY METAL FASTENINGS
05 12 00	STRUCTURAL STEEL FRAMING
05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING
05 21 00	STEEL JOIST FRAMING
05 31 00	STEEL DECKING
05 50 00	METAL FABRICATIONS
05 51 19	METAL GRATING STAIRS
05 52 13	PIPE AND TUBE RAILINGS
05 53 00	METAL GRATINGS

This Bid Category Scope of Work describes and assigns Work to this Bid Category as designated by the Construction Manager. Each Contractor shall cooperate and coordinate with all other Bid Category Contractors for proper and expedient completion of the Work in this Project. This summary should in no way be construed as being all inclusive. It is issued as a guide to aid in the assignment of Work and is intended to clarify and/or further define the Scope of Work included in the Bid Documents. They shall not be construed as the entire Scope of Work for this Bid Category. All work described or indicated in the respective Specifications Sections or Divisions listed above shall be included, except as specifically excluded herein.

1. Contractor agrees to furnish all scaffolding, associated rigging, hoisting (crane), unloading, handling, unpacking, and services necessary for erection and delivery into the premises of all necessary equipment and apparatus. Contractor agrees to remove it from premises when no longer required for the performance of this work required to perform the work of this Subcontract is included.
2. Temporary barricades as required per 01 56 23 – Barricades.
3. The Contractor will furnish F.O.B. jobsite all embeds for cast in place concrete and masonry anchor bolts for structural steel and special metal fabrications that are required or shown to be cast in concrete or masonry. All embeds will have holes drilled for attachment to formwork.
4. Provide all necessary fasteners, clips, inserts, embeds, templates, accessories, hanger rods, pre-punched holes, etc. to furnish and install all structural steel as required.
5. Provide certificates for all welders, prior to start of work.
6. Include touch up (chipping, grinding and prime painting) of all structural steel and field welds. All embeds are to be prime painted on all surfaces.
7. Furnish and install all temporary and permanent cross bracing, wind bracing and misc. bracing as required.

8. Furnish all steel lintels and brick relieving angles as required. Contractor shall provide all necessary anchors to attach these members
9. Provide all painting, touch-up painting, bituminous coatings and galvanizing as required.
10. In the event of mis-fabrication or design error, the supplier will submit, within 24 hours, an engineered solution. Upon acceptance, Contractor will immediately correct the problem as necessary not to interfere with the job progress.
11. No cutting or drilling of holes in structural members will be permitted unless written permission from the Design Team is obtained.
12. Special attention is to be made to all OSHA and Garmong Safety Requirements, especially to TYING OFF. Scaffolds, ladders, hard hats, safety glasses, fire extinguishers and flash arrestors will be used. Ladders must be tied off. All personnel setting "leading edge" work will be tied off, NO EXCEPTIONS. This Contractor shall design and install any necessary safety cable system required to achieve compliance. The company safety director prior to use will review all systems. 100% fall protection above 6' will be strictly enforced.
13. All welders are to be gas or diesel powered.
14. All welds in galvanized decks will be touched up with galvanized primer.
15. This Contractor is responsible for any lost or misplaced materials intended for this scope of work.
16. Provide all metal fabrications as indicated and specified including steel framing and supports for operable partitions, overhead doors and grilles, countertops, doors and windows, MEP equipment, shelf angles, miscellaneous steel trim and corner guards.
17. Provide all steel closure plates, beam enclosures, steel bulkheads, steel soffits, steel utility enclosures, steel plate supports above security mesh screens at mezzanines as indicated. These items are to be fabricated and installed with no gaps larger than 1/8". Provide removable access sections in all steel bulkheads, soffits, and ceilings per specification, but no less than every 12' and a minimum of one (1) per straight run enclosure. Provide all openings for MEP penetrations including HVAC grilles, fire suppression heads, as well as lights and steel mounted electrical and security devices. Coordinate framing members with MEP utilities above ceiling and within steel bulkheads, soffits, and beam enclosures.
18. Provide metallic putty sealants at items provided as part of this scope of work where the work remains exposed. This contractor will be required to seal all exposed joints in steel soffits, bulkheads, ceiling, beam enclosures, and mezzanine plates.
19. Provide angle and plates required for dock leveling equipment and enclosures.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

20. All stairs, handrails, guardrails, grating, mezzanine steel, etc. located in the Day Rooms shall be furnished and installed by Bid Package No. 13. All other stairs, handrails, guardrails, grating mezzanine steel etc. shall be furnished and installed by this bid package.

BID CATEGORY BP NO. 4 STRUCTURAL STEEL METALS SCOPE OF WORK

BID CATEGORY BP NO. 6 METAL STUDS, DRYWALL & ACOUSTICAL CEILINGS SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
05 40 00	COLD-FORMED METAL FRAMING
06 10 53	MISC. ROUGH CARPENTRY
06 16 00	SHEATHING
07 21 00	THERMAL INSULATION
07 25 00	WEATHER BARRIERS
09 22 16	NON-STRUCTURAL METAL FRAMING
09 29 00	GYPSON BOARD
09 51 13	ACOUSTICAL PANEL CEILINGS
09-57-53	SECURITY CEILING ASSEMBLIES—Delete per Addendum No. 2
09 84 10	FIXED SOUND ABSORBING PANELS - Added per Addendum No. 2

This Bid Category Scope of Work describes and assigns Work to this Bid Category as designated by the Construction Manager. Each Contractor shall cooperate and coordinate with all other Bid Category Contractors for proper and expedient completion of the Work in this Project. This summary should in no way be construed as being all inclusive. It is issued as a guide to aid in the assignment of Work and is intended to clarify and/or further define the Scope of Work included in the Bid Documents. They shall not be construed as the entire Scope of Work for this Bid Category. All work described or indicated in the respective Specifications Sections or Divisions listed above shall be included, except as specifically excluded herein.

1. Contractor shall provide additional bracing and/or backing required to adequately support all wall hung fixtures and equipment (cabinets, furniture, toilet accessories, tack boards, handrails, fire extinguisher cabinets etc.). Comply with stud manufacturers recommendations and industry standards in each case considering weight or load resulting from item supported. This Contractor will meet with each related Contractor to coordinate blocking and backing work.
2. Contractor shall furnish and install all acoustical sealants required.
3. Floors shall be scraped clean of drywall mud daily.
4. Contractor shall stencil and identify all fire rated and smoke partitions as required.
5. Contractor shall protect storefront, hollow metal work, aluminum work, glass etc. as required to prevent damage by Contractor's work.
6. Coordinate penetrations in drywall with appropriate trades. Ensure that drywall is cut ¼" to ½" between through wall penetrations. Seal joint with acoustical sealant as required. All penetrations shall be constructed in accordance with UL and NFPA requirements.
7. Other Contractors shall furnish all access panels. This Contractor is responsible for the complete installation of these access panels into partitions and walls constructed by this Contractor.

8. In the interest of a quality finished product and appearance, Garmong, along with the painting Contractor and this Contractor, will inspect all wallboard for surface defects after prime painting. This Contractor will perform any patching of drywall for corrections required. The painting Contractor will perform any associated repriming work. This work, both by the painting Contractor and this Contractor, shall be completed prior to the application of the finish coats of paint at no additional cost.
9. All drywall is to be finished to the floor to allow for the proper installation of base.
10. Provide cut outs necessary for framing at all electrical outlets, switches, HVAC, fire sprinkler and plumbing openings and all other trades where required. Verify height with plans, specifications, codes.
11. Provide coordination with the work of other trades and specifically participate in the ongoing coordination of MEP trades.
12. Coordinate with electrical and mechanical trades, the location of, the suspension reinforcement for, fixtures and/or mechanical grilles, etc. to coordinate with the ceiling suspension pattern. Provide additional ceiling supports and cut outs where necessary to support light fixtures, speakers and other ceiling mounted equipment
13. Coordinate the location of hangers with other work. Ensure the layout of hangers and carrying channels are installed to accommodate fittings and units of equipment that are placed after the installation of the ceiling grid system.
14. Where ducts and or other equipment prevent the regular spacing of hangers, reinforce the nearest and adjacent hangers and related carrying channels as required to span the distance.
15. Contractor shall install and cut all ceiling tile required except for the fire sprinkler tile.
16. If ceiling height discrepancies exist, this Contractor shall notify Garmong immediately. This Contractor shall not make any ceiling height changes without approval.
17. Contractor shall provide all required caulking, sealants and acoustical sealants.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

18. Add to this scope specification section 098410 Fixed Sound Absorbing Panels. Provide and install all fixed sound absorbing panels.
19. Delete Specification Section 095753 Security Ceiling Assemblies from this scope of work.

BID CATEGORY BP NO. 6 METAL STUDS, DRYWALL & ACOUSTICAL CEILINGS SCOPE OF WORK

BID CATEGORY BP NO. 9 FIRE PROTECTION SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
07 84 13	PENETRATION FIRESTOPPING
21 05 17	SLEEVES AND SLEEVE SEALS FOR FIRE-SUPPRESSION PIPING
21 05 18	ESCUTCHEONS FOR FIRE-SUPPRESSION PIPING
21 05 23	GENERAL-DUTY VALVES FOR FIRE PROTECTION PIPING
21 05 29	HANGERS AND SUPPORTS FOR FIRE SUPPRESSION PIPING AND EQUIPMENT
21 05 48	VIBRATION & SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT
21 05 53	IDENTIFICATION FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT
21 11 19	FIRE DEPARTMENT CONNECTIONS
21 13 13	WET-PIPE SPRINKLER SYSTEM
21 13 16	DRY-PIPE SPRINKLER SYSTEMS

This Bid Category Scope of Work describes and assigns Work to this Bid Category as designated by the Construction Manager. Each Contractor shall cooperate and coordinate with all other Bid Category Contractors for proper and expedient completion of the Work in this Project. This summary should in no way be construed as being all inclusive. It is issued as a guide to aid in the assignment of Work and is intended to clarify and/or further define the Scope of Work included in the Bid Documents. They shall not be construed as the entire Scope of Work for this Bid Category. All work described or indicated in the respective Specifications Sections or Divisions listed above shall be included, except as specifically excluded herein.

1. Provide fire hydrant flow test and reports.
2. Site fire water piping by others, piping from 1' above finished floor.
3. Contractor is responsible for pulling all trade permits, paying all fees, and scheduling all required inspections associated with this work.
4. Firestopping of sprinkler piping penetrations in rated walls.
5. Through wall pipe penetrations through secure walls will require coordination with the installing Contractor.
6. All sleeves in new masonry walls and precast shall be laid out and provided by this bid package. All required core drilling, should a sleeve be missed, shall be the responsibility of this bid package.
7. Provide all access doors and panels to access concealed items where not shown on Drawings but required by Code. Include all costs for installation by other Bid Package Contractors. (Masonry Contractor, Metal Stud/Drywall Contractor)
8. Provide detention rated fire suppression heads in secure areas. Locate piping such that piping is not accessible to inmates. Provide detention rated pipe enclosures where piping is installed within reach of inmates. Note locations of steel ceilings, soffits, bulkheads, beam wraps, and utility

enclosures. These items are to be utilized for routing of fire suppression piping but will be shared with other utilities.

9. A complete as-built drawing of the Fire Protection system shall be maintained through and turned over at the end of the project.
10. Variations of pipe routing to accommodate building conditions and/or other trades may exist. An above ceiling coordination meeting incorporating all trades with work in the space will be required prior to rough-in.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

11. Sprinkler heads located inside all prefabricated cells are furnished and installed by this Bid Package. Prefabricated cells will be prepared for sprinkler head installation either in the rear wall or ceiling by Bid Package 13. In addition, all prefabricated cells shall have connection points where this Bid Package will connect the water supply to the cell piping.

BID CATEGORY BP NO. 9 FIRE PROTECTION SCOPE OF WORK

BID CATEGORY BP NO. 10 MECHANICAL AND PLUMBING SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
07 84 13	PENETRATION FIRESTOPPING
08 91 19	FIXED LOUVERS
22 05 13	COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT
22 05 16	EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING
22 05 17	SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING
22 05 18	ESCUTCHEONS FOR PLUMBING PIPING
22 05 19	METERS AND GAGES FOR PLUMBING PIPING
22 05 23.12	BALL VALVES FOR PLUMBING PIPING
22 05 23.13	BUTTERFLY VALVES FOR PLUMBING PIPING
22 05 23.14	CHECK VALVES FOR PLUMBING PIPING
22 05 23.15	GATE VALVES FOR PLUMBING PIPING
22 05 29	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
22 05 48.13	VIBRATION CONTROLS FOR PLUMBING PIPING AND EQUIPMENT
22 05 53	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
22 07 19	PLUMBING PIPING INSULATION
22 11 13	FACILITY WATER DISTRIBUTION PIPING
22 11 16	DOMESTIC WATER PIPING
22 11 19	DOMESTIC WATER PIPING SPECIALTIES
22 11 23.13	DOMESTIC WATER-PACKAGED BOOSTER PUMPS
22 11 23.21	INLINE, DOMESTIC WATER PUMPS
22 13 13	FACILITY SANITARY SEWERS
22 13 16	SANITARY WASTE AND VENT PIPING
22 13 19	SANITARY WASTE PIPING SPECIALTIES
22 13 19.13	SANITARY DRAINS
22 13 23	SANITARY WASTE INTERCEPTORS
22 13 29	SANITARY SEWERAGE PUMPS
22 14 13	FACILITY STORM DRAINAGE PIPING
22 14 23	STORM DRAINAGE PIPING SPECIALTIES
22 14 29	SUMP PUMPS
22 16 13	FACILITY NATURAL GAS PIPING
22 31 00	DOMESTIC WATER SOFTENERS
22 34 00	FUEL-FIRED DOMESTIC WATER HEATERS
22 41 00	RESIDENTIAL PLUMBING FIXTURES
22 42 13.13	COMMERCIAL WATER CLOSETS
22 42 13.16	COMMERCIAL URINALS

22 42 16.13	COMMERCIAL LAVATORIES
22 42 16.16	COMMERCIAL SINKS
22 42 23	COMMERCIAL SHOWERS
22 45 00	EMERGENCY PLUMBING FIXTURES
22 46 00	SECURITY PLUMBING FIXTURES
22 47 16	PRESSURE WATER COOLERS
23 05 13	COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT
23 05 16	EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING
23 05 17	SLEEVES AND SLEEVE SEALS FOR HVAC PIPING
23 05 18	ESCUTCHEONS FOR HVAC PIPING
23 05 19	METERS AND GAGES FOR HVAC PIPING
23 05 23	GLOBE VALVES FOR HVAC PIPING
23 05 23.12	BALL VALVES FOR HVAC PIPING
23 05 23.13	BUTTERFLY VALVES FOR HVAC PIPING
23 05 23.14	CHECK VALVES FOR HVAC PIPING
23 05 23.15	GATE VALVES FOR HVAC PIPING
23 05 23.16	PLUG VALVES FOR HVAC PIPING
23 05 29	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
23 05 48	VIBRATION CONTROLS FOR HVAC PIPING AND EQUIPMENT
23 05 53	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
23 05 93	TESTING, ADJUSTING, AND BALANCING FOR HVAC
23 07 13	DUCT INSULATION
23 07 16	HVAC EQUIPMENT INSULATION
23 07 19	HVAC PIPING INSULATION
23 09 23	DIRECT DIGITAL CONTROL (DDC) SYSTEM FOR HVAC
23 09 24	REFRIGERANT DETECTION AND ALARM
23 21 13	HYDRONIC PIPING
23 21 16	HYDRONIC PIPING SPECIALTIES
23 21 23	HYDRONIC PUMPS
23 23 00	REFRIGERANT PIPING
23 25 13	WATER TREATMENT FOR CLOSED-LOOP HYDRONIC SYSTEMS
23 31 13	METAL DUCTS
23 33 00	AIR DUCT ACCESSORIES
23 33 46	FLEXIBLE DUCTS
23 34 23	HVAC POWER VENTILATORS
23 34 33.13	COMMERCIAL AIR CURTAINS
23 36 00	AIR TERMINAL UNITS
23 37 13.13	AIR DIFFUSERS
23 37 13.23	REGISTERS AND GRILLES
23 37 13.14	SECURITY REGISTERS AND GRILLES
23 37 23	HVAC GRAVITY VENTILATORS
23 51 23	GAS VENTS
23 52 16	CONDENSING BOILERS
23 55 23.13	LOW-INTENSITY, GAS-FIRED, RADIANT HEATERS

23 64 26.13	AIR-COOLED, ROTARY-SCREW WATER CHILLERS
23 73 13.13	INDOOR, BASIC AIR-HANDLING UNITS
23 74 16.11	PACKAGED, SMALL-CAPACITY, ROOFTOP AIR-CONDITIONING UNITS
23 74 33	DEDICATED OUTDOOR-AIR UNITS
23 81 23.13	COMPUTER-ROOM AIR-CONDITIONERS, CEILING MOUNTED UNITS
23 81 26	SPLIT-SYSTEM AIR CONDITIONERS
23 82 13	VALANCE HEATING AND COOLING UNITS
23 82 19	FAN COIL UNITS
23 82 39.16	PROPELLER UNIT HEATERS
23 82 39.19	WALL AND CEILING UNIT HEATERS
33 32 45	HORIZONTAL SHAFT COMMUNITER – added per Addendum No. 2

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1. All items within this package are to be furnished and installed unless otherwise noted.
2. All material handling, rigging, unloading, staging, and storage of all materials.
3. Contractor is responsible for obtaining all trade permits, paying all fees and scheduling and attending all required inspections associated with this work.
4. Temporary HVAC per requirements of 01 51 23 – Temporary HVAC
5. Temporary water per requirements of 01 51 36 – Temporary Water
6. Provide all site underground sanitary piping and structures; domestic and fire water piping and vault; and gas piping from utility. Fire water piping shall be capped at 1' above finished floor.
7. All housekeeping pads.
8. All excavation, backfill, concrete, masonry, and concrete patching required to complete this scope of work.
9. Through wall penetrations through secure masonry walls will require coordination with the Masonry Bid Package. Layout and coordination between all other Bid Packages is required.
10. Any roof penetrations shall be coordinated with the Roofing Contractor. Provide all accessories for roof and slab penetrations including sleeves and roofing accessories.
11. All sleeves in new masonry walls and precast shall be laid out and provided by the bid package. Coordinate installation of sleeves with the Masonry Contractor. Cutting and patching of precast planks for this scope shall be by this contractor.
12. Variations of piping and duct routing to accommodate building conditions and/or other trades may exist. An above ceiling coordination meeting will be required prior to rough-in.
13. Provide all access doors and panels necessary to access concealed HVAC and plumbing accessories where required by Code but not shown on Drawings. Access doors and panels in secure areas are to be detention rated. Access doors and panels in rated walls and ceilings need to be fire rated.

Include cost on installation by other Bid Packages (Masonry Contractor and Metal Stud Drywall Contractor)

14. All refrigerant piping for new HVAC equipment, excluding freezer/cooler work.
15. Provide all man bars at duct penetrations through security walls. Man bars shall be provided at all locations where ductwork penetrates walls within the security perimeter. Provide miscellaneous angles and support members as indicated. Where man bars of fire dampers are identified or required at the same location, provide UL rated out of wall style dampers. Provide retaining angles for mounting security grilles in metal ceilings, soffits, bulkheads, and utility enclosures and do not weld security GRD's to the face of these items.
16. Coordinate BAS network connections and interface with smoke control system with Electrical Contractor.
17. A certified lifting plan shall be presented to Garmong Construction general superintendent prior to any equipment lifts associated with this bid package.
18. Sheetmetal ductwork connections to detention cells may be either round or rectangular. Include provisions for either type.
19. Provide General Trades Contractor with templates to be used in cutting countertops. Coordinate rough-in information with various trades.
20. This Contractor is responsible for furnishing any temporary valves, pumps gauges etc. to complete the work as required and scheduled.
21. *Addendum No. 2* Revision: All plumbing fixtures located inside prefabricated steel cells, shall be furnished and installed by Bid Package No. 13. All other plumbing fixtures shall be provided and installed by this Bid Package.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

22. Add to this scope of work Specification Section 333245 Horizontal Shaft Communiter. Provide and install the Communiter along with all concrete pads and accessories for a complete and operational system. Line voltage power will be provided by others; all other work by this bid package.
23. Revised Note 21 to clarify plumbing fixture responsibility

BID CATEGORY BP NO. 10 MECHANICAL AND PLUMBING MECHANICAL SCOPE OF WORK

BID CATEGORY BP NO. 11 ELECTRICAL SYSTEM SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
07 84 13	PENETRATION FIRESTOPPING
26 05 19	LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
26 05 26	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
26 05 29	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
26 05 33	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
26 05 44	SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
26 05 48.16	SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS
26 05 53	IDENTIFICATION FOR ELECTRICAL SYSTEMS
26 05 73.13	SHORT-CIRCUIT STUDIES
26 05 73.16	COORDINATION STUDIES
26 05 73.19	ARC-FLASH HAZARD ANALYSIS
26 09 23	LIGHTING CONTROL DEVICES
26 22 13	LOW-VOLTAGE DISTRIBUTION TRANSFORMERS
26 23 13	PARALLELING LOW-VOLTAGE SWITCHGEAR
26 24 13	SWITCHBOARDS
26 24 16	PANELBOARDS
26 25 00	ENCLOSED BUS ASSEMBLIES
26 27 26	WIRING DEVICES
26 28 13	FUSES
26 28 16	ENCLOSED SWITCHES AND CIRCUIT BREAKERS
26 29 13.03	MANUAL AND MAGNETIC MOTOR CONTROLLERS
26 29 23	VARIABLE FREQUENCY MOTOR CONTROLLERS
26 32 13	DIESEL ENGINE GENERATORS
26 32 14	STATIONARY LOAD BANK WITH LOAD LEVELING CONTROL – added per Add No.3
26 33 53	STATIC UNINTERRUPTIBLE POWER SUPPLY
26 36 00	TRANSFER SWITCHES
26 43 13	SURGE PROTECTION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS
26 51 19	LED INTERIOR LIGHTING
26 56 13	LIGHTING POLES AND STANDARDS
26 56 19	LED EXTERIOR LIGHTING
27 05 26	GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
27 05 28	PATHWAYS FOR COMMUNICATIONS SYSTEMS
27 05 29	HANGERS AND SUPPORTS FOR COMMUNICATIONS SYSTEMS
27 05 36	CABLE TRAYS FOR COMMUNICATIONS SYSTEMS
27 05 44	SLEEVES AND SLEEVE SEALS FOR COMMUNICATIONS PATHWAYS AND CABLING
27 05 48.16	SEISMIC CONTROLS FOR COMMUNICATIONS SYSTEMS

27 05 53	IDENTIFICATION FOR COMMUNICATIONS SYSTEMS
27 11 00	COMMUNICATIONS EQUIPMENT ROOM FITTINGS
27 11 16	COMMUNICATIONS RACKS, FRAMES, AND ENCLOSURES
27 13 00	COMMUNICATIONS BACKBONE CABLING – added per Addendum No. 2
27 13 13	COMMUNICATIONS COPPER BACKBONE CABLING delete per add. No. 2
27 13 23	COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING
27 13 33	COMMUNICATIONS COAXIAL BACKBONE CABLING delete per add. No. 2
27 15 00	COMMUNICATIONS HORIZONTAL CABLING Added per Addendum No. 2
27 15 13	COMMUNICATIONS COPPER HORIZONTAL CABLING delete per add. No. 2
27 15 33	COMMUNICATIONS COAXIAL HORIZONTAL CABLING delete per add. No. 2
27 41 33	MASTER ANTENNA TELEVISION SYSTEM
28 05 00	COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY
28 05 10	CABINETS AND ENCLOSURES
28 46 19	SECURITY AUTOMATION SYSTEM
28 46 20	VIDEO GRAPHIC USE INTERFACE
28 46 21.11	ADDRESSABLE FIRE-ALARM SYSTEMS
28 51 23	AUDIO COMMUNICATIONS SYSTEMS

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1. All items within this package are to be furnished and installed unless otherwise noted.
2. Contractor is responsible for obtaining all trade permits, paying all fees and scheduling and attending all required inspections associated with this work. This includes preparing and submitting all fire alarm drawings to state and local permitting and plan review authorities in a timely manner so as not to delay the start of work.
3. Temporary power and lighting as specified in 01 15 13 – Temporary Electricity.
4. Light pole bases.
5. All housekeeping and transformer pads.
6. Provide underground conduit rough-in for site primary feed from utility source to utility service provided primary transformer. Provide the CT metering cabinet and install the utility furnished meter socket. Coordinate with the utility provider, submit all applications and pay all required fees.
7. All underground conduit rough-in for telephone and fiber to utility service.
8. All excavation, backfill, concrete, masonry and concrete patching required to complete this scope of work.
9. Schedule of any required shutdowns shall be coordinated with Garmong.
10. All material handling, rigging, unloading, staging, and storage of all materials.

11. Through wall penetrations through secure masonry walls will require close coordination with the Masonry Bid Package. Layout and coordination between other Bid Packages is required.
12. Install all electrified door, overhead door, and coiling shutter hardware components furnished by General Trades Contractor and provide wiring terminations. This excludes electrified door controls provided by the Detention Equipment Contractor.
13. Any roof penetrations shall be coordinated with the Roofing Contractor. This package shall create the roof penetration to the acceptance of the Roofing Contractor. Provide all accessories for roof and slab penetrations including sleeves and roofing accessories.
14. All sleeves in new masonry walls and precast shall be laid out and provided by this bid package. Coordinate installation of sleeves with Masonry Contractor. Cutting and coring of precast planks for this scope of work shall be by this contractor.
15. Provide all access panels required to access conceal items as required for Code but not shown on Drawings. Include costs for installation by other Bid Packages. (Masonry Contractor and Metal Stud Contractor)
16. It shall be the responsibility of this bid package to provide start up assistance on equipment provided. The equipment manufacturer (when required) shall provide start up on all equipment.
17. All interconnecting wiring and devices as required for new kitchen equipment and kitchen fire protection as described in contract documents.
18. Variations of conduit routing to accommodate existing building conditions and/or other trades may exist. An above ceiling coordination meeting will be required prior to rough-in.
19. Provide and install all components of the telephone, data, communication and coaxial systems for complete an operational systems.
20. Provide all cable support systems, raceways, conduits, wall sleeves, rough-in boxes and cable trays for all low voltage systems installed by as part of this scope of work and for systems installed by others including data and communications, security electronics, electrified door hardware, kitchen and laundry equipment, and fire alarm. This is to exclude temporary controls /BAS systems which will be provided by the Mechanical & Plumbing Contractor except where specifically indicated on the Contract Documents. Cable trays not identified on the Drawings will be the responsibility of the contractor requiring the cable trays. Install only special back boxes, racks and cabinets furnished by the Detention Equipment Contractor. Layout and provide wall sleeves for these systems as necessary to provide complete raceways.
21. Provide all security electronics cabling, wire, and fiber optic complete and ready for termination at head end racks by the Detention Equipment Contractor. Install only all field devices and lock pigtails and wiring harnesses for security electronics systems. Terminations at head end equipment will be provided by the Detention Equipment Contractor, however, the Electrical Contractor will be responsible for receiving and installing head end equipment racks. Examples of field devices that are furnished by the Detention Equipment Contractor for installation by this contractor include intercoms, cameras, duress devices, watch tower devices, speakers, talk-thru devices, card readers, motion detectors, request to exit buttons, microphones, etc. Note locations where utility control is provided through the security electronics systems and lighting and power is fed through the utility control panels on the security electronics system. Central control computers and monitors are to be furnished and installed by the Detention Equipment Contractor.
22. All BAS and HVAC controls will be the responsibility of the Mechanical & Plumbing Contractor. The Mechanical & Plumbing Contractor will be responsible for furnishing all BAS equipment and

controllers. The Electrical Contractor is responsible for line voltage power connections, relays, VFD terminations, fire alarm connections, power shut down (contactors), motor starters, or disconnects associated with the controls system, all of which are to be furnished and/or installed as detailed in this scope of work.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

23. Add Specification Section 263214 Stationary Load Bank with Load Leveling Control to this scope of work.
24. Add Specification Section 271300 Communications Backbone Cabling to this scope of work.
25. Add Specification Section 271500 Communications Horizontal Cabling to this scope of work.
26. Delete Specification Section 271313 Communications Copper Backbone Cabling from this scope of work.
27. Delete Specification Section 271333 Communications Coaxial Backbone Cabling from this scope of work.
28. Delete Specification Section 271533 Communications Coaxial Horizontal Cabling from this scope of work.

BID CATEGORY BP NO. 11 ELECTRICAL SYSTEM SCOPE OF WORK

BID CATEGORY BP NO. 13 DETENTION EQUIPMENT SCOPE OF WORK

This Scope of Work is to include, but is not limited to, the following Specification Sections:

<u>Section</u>	<u>Description</u>
Division 00	Procurement and Contracting Requirements
Division 01	General Requirements
05 05 53	SECURITY METAL FASTENINGS
08 31 19	SECURITY ACCESS DOORS AND FRAMES
08 34 63	DETENTION DOORS AND FRAMES
08 56 63	DETENTION WINDOWS AND SKYLIGHTS
08 71 63	DETENTION DOOR HARDWARE
08 71 63A	DETENTION DOOR HARDWARE SETS
08 88 53	SECURITY GLAZING
09 57 53	SECURITY CEILING ASSEMBLIES
09 78 63	SAFETY PADDING
10 2813.63	DETENTION TOILET ACCESSORIES
11 18 00	SECURITY EQUIPMENT
11 19 00	DETENTION EQUIPMENT CONTRACTOR
11 19 03	SECURITY SCREEN-WOVEN ROD
12 55 00	DETENTION FURNITURE
12 56 00	INSTITUTIONAL FURNITURE
13 55 00	PREFABRICATED MODULAR STEEL CELLS
28 05 00	COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY
28 05 10	CABINETS AND ENCLOSURES
28 13 00	ACCESS CONTROL SYSTEM – Added per Addendum No. 2
28 23 00	IP VIDEO COMMUNICATION SYSTEM– Added per Addendum No. 2
28 46 19	SECURITY AUTOMATION SYSTEM
28 46 20	VIDEO GRAPHIC USE INTERFACE
28 4621.11	ADDRESSABLE FIRE-ALARM SYSTEMS
28 51 23	AUDIO COMMUNICATIONS SYSTEMS

This Bid Category Scope of Work describes and assigns Work to this Bid Category as designated by the Construction Manager. Each Contractor shall cooperate and coordinate with all other Bid Category Contractors for proper and expedient completion of the Work in this Project. This summary should in no way be construed as being all inclusive. It is issued as a guide to aid in the assignment of Work and is intended to clarify and/or further define the Scope of Work included in the Bid Documents. They shall not be construed as the entire Scope of Work for this Bid Category. All work described or indicated in the respective Specifications Sections or Divisions listed above shall be included, except as specifically excluded herein.

1. Furnish only all interior and exterior detention hollow metal door and window frames, security access panel frames, chase doors frames, and tear gas ports to be installed by General Trades Contractor. Provide on-site training and supervision during initial installation.
2. *Addendum No. 2:* Furnish and install all detention and institutional furnishings
3. Frames to be furnished prior to the start of above slab masonry walls. Provide guarantee letter from manufacturers agreeing to this date and allow 4 weeks for submittal review. Frames that cannot be factory prepped for hardware in time to make these delivery dates shall be prepped in the field by this contractor. This Contractor is responsible for furnishing steel plate embeds at all locations where frames are not delivered in time for masonry wall construction and will be responsible for field installation of frames as part of this scope of work. If frames are delivered on time, plate embeds can be omitted.
4. Careful coordination will be required with the Security Electronics Contractor to prep frames to receive frame mounted security electronics devices such as intercoms, DPS devices, locks, push buttons, request to exit devices and all electrified hardware components. Junction boxes, conduit raceways, enclosures, and access plates for all items shall come factory installed.
5. Door, window, and access panel openings in rated wall or ceiling assemblies are to be rated regardless of whether correctly indicated on the door schedule.
6. This contractor will be responsible for furnishing frame anchor straps/masonry anchors to be installed by others.
7. *Addendum No. 2:* This contractor will be responsible for furnishing for installation by Bid Package 1, all plate steel frame closure pieces between frames and to close off gaps around frames and columns between frames. Closure pieces are to be field measured by this contractor.
8. Provide all conduit runs, junction boxes, enclosures, and access plates factory installed in detention doors and frames. At frames where access to junction boxes will be inaccessible, provide conduit runs through frame to either top or bottom of frame to be coordinated with the Electrical Contractor. Frame mounted conduit and junction boxes are to be factory sealed to avoid leaks during grouting of frames.
9. Furnish all detention hollow metal doors complete. This contractor will be responsible for storing doors until installed. On site storage will be permitted, however, this contractor will be responsible for receiving, unloading, and protecting until installed.
10. All openings as part of this scope of work in rated wall or ceiling assemblies are to be rated regardless of whether correctly indicated on the door schedule. Refer to fire rated assembly plans. Rated openings are to be complete rated assemblies (door, frame, glass, hardware) and shall bear UL label.
11. Coordinate with the Electrical Contractor to prep doors to receive hardware and security electronics devices such as concealed closures, DPS devices, locks, etc.
12. Provide all detention door hardware complete in detention openings provided under this scope of work as well as all detention hardware in non-detention openings.
13. Furnish only all pigtails and wire harnesses for all locks and electrified door hardware to be installed by the Electrical Contractor. Provide final adjustment and installation of cover plates and trim after installation of security electronics wiring at all door locations. Door mutes are to be field installed AFTER finish painting of doors and frames by this contractor.

14. Include all weather stripping, gaskets, sweeps, thresholds, etc at doors installed under this work category. Food pass and cuff port openings and shutters are to be factory installed in door openings provided by this contractor.
15. Provide all keying and key controls for locks installed by this work category. Attend keying coordination meetings in person.
16. Provide final adjustment of all detention doors after HVAC system is fully functional and building final enclosure including adjustment of hinges, closers, DPS, and LSS devices.
17. Provide all security glazing complete including security glazing in openings, non-detention doors and frames where indicated furnished and/or installed by the work of this category. Fire rated glazing is to be permanently etched with UL rating. Glazing is to fit tightly to frame and/or glazing stops without any gaps and with glazing tape or sealants cut below edge of glazing stops. Any gaps at these locations will be addressed by this contractor or will receive security joint sealants by others paid for by this contractor.
18. Provide all detention toilet and bath accessories, equipment, and furnishings complete. This includes but is not limited to all toilet paper holders (furnish only where embedded in masonry), security grab bars, security robe hooks, security shelves, security mirrors, security hook strips, security desks, stools, bunks, report writing shelves, dayroom tables, pistol lockers, key cabinets, package passes, sill passes, kitchen tool lockers, security tables, wall mounted swing stools, benches, security shower curtains, etc.
19. Provide detailed coordination drawings and furnish only all steel embeds for detention furnishings and accessories to Masonry Contractor. Embeds are to be delivered to the Masonry Contractor prior to the start of above grade masonry. Provide touchup of all factory primers, paints and finishes after installation to prepare for finish coat so that welding burns do not telegraph through finish paint. Finish coats to be provided by Painting Contractor. Remove all welding burns and slag from adjacent surfaces.
20. Provide all woven mesh security barriers. Coordinate sizes and location requirements for embedded anchors in precast and steel anchor structure above.
21. Provide complete and tested touchscreen control system including touchscreen stations, control panels, interface boards and PLCs with complete and operational function of the door control system, CCTV system, alarms, utility controls, and audio control systems, etc. accepted by Owner, A/E, and Construction Manager.
22. Provide complete and tested door control system including all interface board, relay cabinets, install only pig tails and wire harnesses at new detention locks, and system functionality indicated, specified, or required.
23. Provide complete and tested intercom and paging system including all PLC, software, programming, power supplies, amplifiers, microphones, intercom devices, speakers, intercom stations, interface boards and all other equipment indicated or required to achieve system functionality.
24. Provide complete and tested CCTV system including all cameras and mounting hardware, network video recorders, matrix switch input cards, DVRs capable of maintaining the specified level of storage, and camera power supplies as well as all other equipment indicated or required to achieve system functionality.
25. Furnish only all field devices, racks, relays, controllers, equipment, etc. factory assembled and tested to the furthest extent possible for field installation by the Electrical Contractor. Provide on-site

- training, assistance, and verification a minimum of once a month prior to the start of on-site start-up and testing.
26. Provide onsite start-up and testing of all devices and systems provided as part of this scope of work.
 27. Provide all control panels and consoles required to achieve a complete functional system.
 28. Provide detailed point to point wiring diagrams with required back box and conduit sizing and groupings for all new and existing devices. Cabling, conduit, raceways, back boxes (except specialty back boxes indicated to be provided as part of this scope of work) required to complete this scope of work will be provided by the Electrical Contractor.
 29. Furnish only all specialty back-boxes to the Electrical Contractor for installation.
 30. Provide up to (4) 8-hour training sessions for general operation of the security electronics system in addition to separate maintenance and supervisor level training to accommodate continued operation of facility.
 31. Develop and provide a quality assurance plan demonstrating that every aspect of the detention equipment and security electronics system by the DSC and ESS shall function properly at substantial completion. Include in that plan a detention lock and detention door commissioning plan cycling every door and lock from fully closed to fully open twenty (20) times before substantial completion. Document this effort for every door as witnessed by an independent commissioning agent engaged by the CM.
 32. This contractor will be responsible of providing all services identified throughout the drawings and specifications of those parties identified as the Detention Systems Contractor (DSC), Electronics System Contractor (ESS), Electronic Security Systems Contractor (ESSS), Detention Hardware Contractor (DEC), Detention Electronics Contractor (DEC), Detention Hardware Sub-Contractor(DESC), Touchscreen Control System Vendor (TCSV) and Security Contractor Installer (SCI). Where scope delineation conflicts exist between this Scope of Work and any other section of the specifications or construction drawings, this Scope of Work shall govern.

Addendum No. 2 Revisions – The following items are to be added to this scope of work:

33. Add Specification Section 281300 Access Control System to this scope of work
34. Add Specification Section 282300 IP Video Communication System to this scope of work
35. All stairs, handrails, guardrails, grating, mezzanine steel, etc. located in the Day Rooms shall be furnished and installed by Bid Package No. 13.
36. All plumbing fixtures located inside prefabricated steel cells, shall be furnished and installed by Bid Package No. 13. All other plumbing fixtures shall be provided and installed by Bid Package 10.
37. Item No. 2 has been amended to furnish and install all detention and institutional furniture.
38. Item No. 7 has been amended to furnish splice plates for installation by Bid Package No. 1.

BID CATEGORY BP NO. 13 DETENTION EQUIPMENT SCOPE OF WORK