



FAYETTE COUNTY PRISON

Fayette County Commissioners

ADDENDUM No. 2

Issue Date: March 9, 2021

TO ALL BIDDERS:

This addendum is issued to clarify, amend, or supersede the drawings and specifications as applicable and shall become a part of the Contract Documents for the subject project as if fully incorporated and bound therein.

GENERAL:

1. **Confirmation from Advertisement:** All bids submitted pursuant to this advertisement must be sealed and clearly marked on the outside of envelope Bid 21-04, followed by the Prime Contract Number. **Submit one (1) original and five (5) copies** to the Office of the County Controller, Courthouse, 61 East Main Street, Uniontown, Pennsylvania 15401. Faxed bids will not be accepted.

CHANGES TO SPECIFICATIONS:

SECTION 01 1200	MULTIPLE CONTRACT SUMMARY Contract 3 is SITEWORK CONSTRUCTION and Contract 4 is GENERAL CONSTRUCTION
SECTION 10 1400.00	SIGNAGE 3.04.E - DELETE paragraph 3.04.E in its entirety.
SECTION 23 0913	INSTRUMENTATION AND CONTROL FOR HVAC EQUIPMENT 1.05.C.8 - DELETE subparagraph 1.05.C.8 in its entirety.

SPECIFICATIONS INCLUDED / REISSUED IN THIS ADDENDUM:

SECTION 01 1200	MULTIPLE CONTRACT SUMMARY
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CHANGES TO DRAWINGS:

DRAWING G101	CODE SUMMARY PLAN LEVELS 01 & 02 IBC Tables 601 and 602 - FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS - ADD the following item under UL ASSEMBLY # for Floor construction and secondary members to read as follows:
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"See IBC Section 722.2.2"

Other Attachments:

None

QUESTIONS AND RESPONSES:

Question 1	Please confirm the PCCM is only responsible to furnish and install the Cell Light Fixture (Fixture designation SA) per section 13 4263-1.02.B.10, and that the supply and installation of all other light fixtures are by Contract 9 – Electrical Construction.
Response 1	Confirmed.
Question 2	Specification section 13 4263-1.07.J. Fire-Test-Response Characteristics. The precast concrete cell modules and precast plenum units do not appear to need to be fire rated based on the Code Summary Plan drawings. Please confirm 13 4263-1.07.J is not applicable to this project.
Response 2	Fire rating is required at the floor levels. See Addendum No. 2.
Question 3	Drawing FSE-1, Item(s) 32, 36, 51; Please confirm that the Food Service Contractor shall provide the floor trough with grating as described in the FSE Drawings.
Response 3	Confirmed, food service equipment contractor is responsible for providing the stainless steel drain pan and grating as described within the food service documents.
Question 4	Drawing FSE-5, Typical Section thru floor trough with grating; Please confirm that the G.C. is only responsible for coordination of installation of the Trough. The F.S.E.C. shall be responsible for placement and grouting of the trough.
Response 4	The food service equipment contractor is responsible for installing the floor trough and coordinating drain location (by the Plumbing Contractor) with the trades. The actual grouting of the trough, after installation, is the responsibility of the General Contractor.
Question 5	Drawing P002, please confirm that the Plumbing Contractor shall provide the trench drain system including ADA compliant heavy duty grating as indicated on P002.
Response 5	Confirmed - the plumbing contractor will provide the trench drain system including ADA compliant heavy duty grating.
Question 6	Drawing C112 & Drawing C102 – Please clarify which signs are to be bollard mounted versus Single post sign mounted.
Response 6	Signs designated as “D” and “E” are bollard mounted. The rest are single post sign mounted.
Question 7	CADD files during bid?
Response 7	No.
Question 8	Substitutions request during bid phase?
Response 8	No substitution requests will be considered during bidding.

Question 9	Can you confirm that video surveillance wiring can be installed above ceilings, conduit required only for exposed surfaced areas?
Response 9	All video surveillance connections throughout the facility shall be concealed above ceilings and in walls where possible. Only video surveillance connections in areas without ceilings and in areas where it is impractical to recess devices are permitted to be run exposed in conduit.
Question 10	Drawing E301 EC required to provide and install 54 -4'x8'x3/4" sheets of fire retardant plywood will we need to paint these as well?
Response 10	All fire-rated plywood demark boards shall be painted gray. Lengths of plywood demarks as indicated on the drawings.
Question 11	<p>In Plumbing Specification, Section 22 1005 Plumbing Pipe, Part 2 Products, 2.18 Double Containment Piping, B. Material, it states the material as schedule 40 CPVC.</p> <p>Under 2.18, E. Locations, it states that it is to be on all sanitary drainage systems located above main food service room and main laundry room ceilings.</p> <p>As Part 2 Products, 2.08 Sanitary Sewer Piping, Above grade states that the pipe is to be Cast Iron No Hub or Copper, our question is:</p> <p>What type of pipe is to be used for the sanitary lines above main food service room and main laundry room ceilings?</p>
Response 11	Provide cast iron piping with CPVC secondary containment system as specified in documents.

END OF ADDENDUM NO. 2

SECTION 011200 - MULTIPLE CONTRACT SUMMARY

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Description of Contracts.
- B. General Coordination and distribution of work between prime contracts.
- C. Refer to other Sections and Drawings for further descriptions of work and coordination.

1.2 RELATED SECTIONS

- A. Section 011000 - SUMMARY OF WORK
- B. Section 013200 - CONSTRUCTION PROGRESS DOCUMENTATION
- C. Section 015000 - TEMPORARY FACILITIES AND UTILITIES

1.3 SAFETY - LEAD CONTRACTOR DESIGNATION

The General Contractor shall be designated as the "Lead Contractor" with respect to jobsite safety. Responsibilities and authority of the Contractor shall be as follows:

- A. The lead Contractor will be responsible to inspect and maintain safe working conditions on the jobsite.
- B. Where the work of one (1) Contractor places another Contractor's workers in jeopardy, the "Lead Contractor" shall direct and coordinate the effort of the Contractors to ensure that jobsite safety is maintained.
- C. The lead Contractor will maintain a "competent person" on site at all times designated to make safety inspections and to serve as the designated representative in charge of safety during inspection by OSHA employees.
- D. The lead Contractor may direct another Contractor to make corrections in the event of a safety violation. Failure of another Contractor to take

prompt action (within 24 hours following written notice) to correct a safety violation shall empower the lead Contractor to make the necessary corrections and to receive full compensation for such corrections directly from the Owner. The Construction Manager will verify and provide documentation of time and material expended to make corrections. The Owner in turn will recover the amount of the expense from the offending Contractor through deduct Change Order.

- E. The lead Contractor's responsibilities and corresponding authority shall be as defined in the General Conditions of the Contract for Construction.
- F. The individual Prime Contractors will maintain primary responsibility for the safety of their workers. The "Lead Contractor" will serve to identify areas of concern and will endeavor to accomplish required corrections through cooperation of other Prime Contractors. In the event this effort is unsuccessful, the "Lead Contractor" will take action as defined above.
- G. The Owner will support the decisions and action taken by the "Lead Contractor" to maintain jobsite safety. The Owner will promptly make payment to the "Lead Contractor" when corrective action has been taken on behalf of an offending Contractor and the "Lead Contractor" has provided appropriate documentation.
- H. Lead Safety Contractor shall provide regular and periodic safety inspections and reports by an independent safety consultant. Inspections and reports shall be performed at least once each month.
- I. Each Contractor shall provide a safety representative who is trained in first aid and CPR.

1.4 DESCRIPTION OF CONTRACTS

- A. The work of this project shall be performed under 9 Prime Contracts as defined in this Section.
- B. The following is a list of the Prime Contracts to be bid for this project:

Contract 1..... Asbestos Abatement (Previously Bid Out)
Contract 2..... Site and Building Demolition (Previously Bid Out)
Contract 3..... Sitework Construction

Contract 4..... *General Construction*
Contract 5..... *Food Service Equipment Construction*
Contract 6..... *Fire Protection Construction*
Contract 7..... *Plumbing Construction*
Contract 8..... *HVAC Construction*
Contract 9..... *Electrical Construction*

C. The General Conditions and Division 1 - General Requirements shall apply to all Prime Contracts and Subcontracts for this Project. Each Prime Contract Package Description is to include all Work in accordance with the Contract Documents, except Work covered by other Prime Contract Package Descriptions. Collectively, these Prime Construction Contracts include all materials, labor, supervision, transportation, tools, equipment and services for the Project as shown or implied on the drawings and specified herein, or as may be required or necessary for a complete and satisfactory job.

D. If there is a conflict on a specific item with regards to assignment of work to a specific Contractor between the Contract Documents and the Prime Contract Package Description as Stated herein, the Prime Contract Package Description will govern; however, if an item is covered in the Contract Documents, but not reiterated in the Prime Contract Package Description, the Bidder will be responsible for that item of work.

If an item is covered in two or more contract package descriptions, each Contractor shall include the item at the time of bid. After Contract award, a credit will be solicited for work in question.

E. Each Contractor shall supervise his Work, using his best skills and attention. He shall be solely responsible for construction means, methods, techniques, sequences, dimensions and procedures and/or coordinating all portions of their Work, with all Work to be performed under separate contracts and/or other Bid Packages. Refer to the General Conditions Article 6 on work by Separate Contractors or by Owner.

F. All items of work listed under the Prime Contract Package Descriptions shall be provided by the Prime Contractor unless specifically noted as furnished or installed only.

G. All Prime Contractors shall maintain site conduct in accordance with the rules and procedures specified under the General Conditions.

H. All Prime Contractors shall maintain, contribute to and coordinate the schedule as required in the Construction Progress Documentation Specification Section 013200.

I. Asbestos abatement of the existing buildings will be handled under separate contract by the Owner.

If a Contractor encounters material suspected to contain asbestos or another potentially hazardous material, that Contractor should immediately bring this discovery to the attention of the Construction Manager.

J. Contract Documents include all drawings, specifications, contract descriptions, etc. for the work of the Project. Each Prime Contractor shall review all Documents in their entirety.

K. The General Contractor will secure, and the Owner will pay for the building permit.

L. The Owner shall pay all utility tap-in fees for the permanent structure with the exception of the electrical service and electrical pole relocation fees. The Electrical Contractor shall include an allowance of \$50,000 for the Electric Company fees for the permanent service. All other fees, including utility connection fees for temporary facilities and all other permits are the responsibility of the appropriate Prime Contractors.

M. The Owner will provide builder's risk insurance.

N. The Installing Prime Contractors will provide testing services for all work as indicated in the technical specifications and in Quality Control Requirements Section 014000 unless testing services are specifically noted as being provided by the Owner.

O. Each Prime Contractor shall be responsible to return all laydown, storage and work areas to their original condition except areas designated on the site utilization plan, which shall be the responsibility of the Sitework Contractor. Confirmation of completion of this requirement shall be necessary prior to release of final payment.

P. Definitions:

Coordinate: The term "coordinate" means "to cooperate with related trades to furnish and install all connections between the trades in correct sequence, size and location to create a

complete system ready for intended use."

Verify: The term "verify" means "to measure, investigate, review, test, check the accuracy or correctness of and prove by demonstration, evidence, or testimony the location, size, dimension and condition of an item."

Furnish: The term "furnish" is used to mean "supply and deliver to the project site, ready for unloading, unpacking, assembly, installation and similar operations."

Install: The term "install" is used to describe operations at the project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, performing, coordinating with other trades, protecting, cleaning, and similar activities".

Provide: The term "provide" means "to furnish and install, complete and ready for the intended use."

Q. This is a phased project. Multiple trips to the site for some prime contractors will be required to complete this project.

R. The following items are to be included in each Prime Contractor's Scope of Work:

1. Coordinate all work with other Prime Contractors.
2. This project will utilize Procore Construction Management Software. There is no fee required from Contractors for the use of this product. Invitations to access the project including links to on-line tutorials and help services will be provided to each Contractor and their Personnel assigned to the project by Reynolds Project Manager upon contract execution. The project personnel of each Contractor will be responsible to utilize Procore for accessing, viewing, and downloading documents as well as the submission and processing of all RFI's and submittals throughout the course of the project.
3. Submit shop drawings, samples, schedules, data, manuals, as-built drawings, etc., required by the Contract Documents. Update, on a weekly basis, a record set of drawings in the Construction Manager's field office. A final set of drawings of this Contractor's work shall be submitted to the Construction

Manager upon the completion of the work.

4. Observe and comply with at all times all Federal and State laws and regulations, and Local bylaws, ordinances and regulations in any manner affecting the conduct of the work or applying to employees on the project, as well as all safety precautions and orders or decrees which have been promulgated or enacted, or which may be promulgated or enacted, by legal bodies or tribunals having authority or jurisdiction over the work, materials, equipment, employees, such observance and compliance shall be solely and without qualification the responsibility of this Trades Contractor without reliance on superintendence or direction by the Owner or their Representative. The duty of enforcement of all of said laws, ordinances, regulations, orders or decrees lies with the body of agency promulgating them, not with the Owner or their Representatives.
5. Perform all work in accordance with the project schedule as described in Section 013200.
6. Provide protection of new roofing systems, equipment, structure, finishes and landscaping from damage resulting from the work of this contract. Repair any damage promptly to the satisfaction of the Owner.
7. The General Contractor shall provide all engineering and layout for his work. In addition, the General Contractor shall provide and maintain throughout the project all building corners and column centerlines. The General Contractor shall provide floor control lines for each floor consisting of at least two perpendicular control lines per area and finish floor elevations. The General Contractor will provide layout for all walls and partitions. Each Trade Contractor shall be responsible for all other survey, engineering, layout, etc. required to execute their work. Each Trades Contractor, at his own expense is to provide all stakes, templates and labor required in laying out their work and is responsible for proper execution of the work to the lines and grades shown on the drawings or as indicated by the Architect/Engineer.
8. Provide all dewatering required to perform the work of their contract.

9. Provide all scaffolding, hoisting, shoring, barricades, ramps, etc., as necessary to perform the work of this contract.
10. Provide safety and protection of persons and property per OSHA, Local and State requirements. Provide maintenance of all safety precautions throughout the work of this Contract. Each Contractor is to return the safety cables to an OSHA approved condition without slack. Provide protection at floor and roof penetrations not shown on the drawings but required for work of this Contract. Provide all safety signage required by OSHA for the work of this Contract. Furnish Company Safety Plan, Hazard Communication Plan, MSDS information and other OSHA required documents to the "Lead Contractor" prior to the start of work.
11. All contractors' personnel working on or visiting the project site while construction activities are underway are required to wear safety glasses and hard hats at all times. Appropriate work shoes and clothing should be worn by all construction personnel. The wearing of shorts or sleeveless shirts is not permitted. Clothing with offensive or politically incorrect wording / illustrations is not permitted.
12. Promptly address the recommendations made by the "Lead Contractor" for jobsite safety.
13. If the applicable Contract Documents, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any work to specifically be tested, inspected, or approved by someone other than this Trades Contractor, the Contractor will give the Owner and their Representative timely notice of readiness. The Contractor will then secure and maintain a record of the required certificates of inspection, testing or approval.
14. Inspection, tests, or approvals by the Owner or their Representative shall not relieve this Trades Contractor from his obligation to perform the work in accordance with the requirements of the Contract Documents.
15. Provide all fees, Federal, State and Local taxes, special permits, inspections, etc. as required to perform the work of this Contract unless item is specifically identified as being provided by the Owner or is tax exempt.

16. All submittals, shop drawings and product samples must be received no later than forty-five (45) days following the date of Notice to Proceed. Those submittals for critical schedule activities must be submitted and approved in time to make required deliveries. Contractors are responsible to make material deliveries to accomplish phase completions.
17. No guns, illegal drugs, tobacco products or alcoholic beverages will be allowed on this project. The Owner may require any individual employed or engaged in the project, either directly or indirectly, to submit to drug, and/or alcohol testing, based on reasonable suspicion or if an individual has been involved in an accident. Random drug and/or alcohol testing is strongly encouraged. All testing shall be paid by the Prime Contractors. Any individual who refuses to cooperate with or submit for testing or who test positive for alcohol or drugs shall be excluded from the job site at the direction of the Owner.
18. The USDA, the Owner and their Representatives will at all times have access to the work. In addition, authorized representatives and agents of any participating State, County or Local Municipal representative shall be permitted to inspect all work, materials, and other relevant data and records. This Trades Contractor will provide proper facilities for such access and observation of the work and for any inspection or testing thereof.
19. Verify existing conditions prior to start of work and notify Construction Manager of any discrepancies.
20. The General Contractor shall provide for all temporary enclosures of building openings as required to maintain the schedule of the project. Should any Contractor have materials that are delayed on the project, which in turn delays the work of other Contractors, that Contractor shall be required to provide and/or maintain the temporary enclosures required to enclose the missing portions of that Contractor's Work.
21. Each Contractor shall provide holes in structural steel as required for the installation of their work with the approval of the Architect and Engineer. The structural reinforcing must be in accordance with the requirements of Structural Steel specification section.
22. Each Contractor shall provide sealants in accordance with Joint

Sealant specifications in any and all conditions where materials installed by the Contractor abut dissimilar materials (vertical and horizontal joints). Each Contractor is also responsible for sealing penetrations required for the scope of that trade.

23. All Contractors are responsible to clean their construction vehicle's wheels with the intent of keeping all mud off paved surfaces.
24. Each Prime Contractor is responsible for general clean-up and trash removal resulting from the work or employees of that contract. The General Contractor shall provide construction dumpster(s) as required for the purpose of trash removal for all Prime Contractors, except the Sitework and Demolition Contractors, who shall remove their own debris. Removal of demolition debris from site will be by the Contractor performing the demolition. Hazardous materials shall not be placed in the dumpster but should be removed from site by Prime Contractor responsible for material. The General Contractor will also periodically organize a project clean up by all Contractors. Those Contractors on site shall provide labor to assist in this cleanup on a weekly basis. After the building is enclosed, the General Contractor shall also provide a laborer a minimum of 16 hours a week to broom sweep the project's interior floor areas with approved sweeping compound to control dust through the duration of the project. General Contractor shall provide a separate line item on the schedule of values for this laborer to broom sweep these areas. Each Prime Contractor shall provide a line item on their initial schedule of values for ongoing project clean-up activities.
25. All Contractors are responsible to provide dust, toxic fume and noise control for their own work.
26. Noisy demolition and construction work will need to occur from 7:00 AM to dusk and per local noise ordinance.
27. Identification badges must be worn by all Contractor Employees working on the Project site, as provided by the Owner.
28. Cutting and Patching:
 - a. Exposed finished materials, structural elements, watertight assemblies, HVAC, plumbing, and electrical

equipment and systems.

- i. Newly Installed Materials: A Contractor, requiring the cutting of openings in new work shall have such openings cut and patched by the trade which installed the work and such cutting and patching shall be at the expense of the Contractor, requiring the opening, unless specified otherwise.
 - ii. Existing Materials: A Contractor requiring the cutting of openings in existing materials shall have such openings cut and patched by a Contractor specializing in that trade and the cost shall be at the expense of the Contractor requiring the opening.
 - iii. Approval to do such cutting and patching shall be received from the architect prior to proceeding with the work and shall include installation of such reinforcement of the work as the Architect may Direct.
 - b. Other locations: Cutting and sealing of penetrations in other locations including firestopping shall be by the Contractor requiring the cutting of such openings.
 - c. All blocking, bracing, reinforcement or structural enhancement required due to cutting and patching shall be provided at no additional cost to the Owner. All patching work shall match adjacent existing work unless otherwise noted.
29. Provide firesafing and firestopping at all locations that are required to maintain a fire rating at floor and wall penetrations as a result of work of each prime contract. All new and/or existing penetrations at walls or ceilings related to a prime Contractor's scope of work shall be firestopped by that Contractor as per the specifications.
30. Provide Steel and Aluminum product certifications as required under the Steel Products Procurement and Trade Practice Acts otherwise known collectively as the "Buy American" requirements of all Public Works Construction Contracts funded in part by the Commonwealth of Pennsylvania.
31. General Contractor will be responsible for the costs of up to and including two Labor and Industry elevator inspections. Any costs associated with additional inspections beyond the second inspection will be equally distributed to the parties that were

responsible for the previous failure.

32. **Coordination Drawings:** Coordination drawings among the HVAC, Plumbing, Fire Protection, Electrical and Ceiling Contractors are required with the lead role assigned to the HVAC Contractor. The HVAC Contractor shall prepare ¼" scale CADD drawings with ductwork & piping layout for review by the other Trade Contractors. The other Trade Contractors shall then prepare and provide CADD additions/modifications representing their work to the HVAC Contractor, who will then prepare final layout and coordination drawings illustrating work by all Trades on one set of coordination drawings for the project as a part of his Contract price. The HVAC Contractor shall conduct coordination meetings with all Trade Contractors to discuss and resolve interference problems. Once each Trade Contractor has initialed with approval the coordination drawings, the HVAC Contractor shall submit the coordination drawings to the Construction Manager for review. The other Trade Contractors should finalize their shop drawings in accordance with the coordination drawings and submit to the Construction Manager.

Schedule: The HVAC Contractor shall prepare and distribute ductwork & piping drawings for the **first phase of construction** within 25 days after start of construction. The other Trade Contractors shall then prepare and distribute to the HVAC Contractor their CADD input within 15 days. Final coordination drawings to be completed and distributed by the HVAC Contractor for the first phase of construction within 55 days after start of construction. **Each successive phase** is to be completed 45 days following the completion of coordination drawings of the previous phase.

33. Visit the site prior to submitting bid and thoroughly examine the site for existing conditions that may need to be modified or demolished in order to provide the work of this contract. Each Prime Contractor is to include the cost of those modifications or demolition cost within their base bid proposal. No claim for additional work will be permitted for modifications to existing conditions or demolition of existing items that are required to install new work of this contract that are apparent and should have been discovered during the prebid walkthrough.

34. All Prime Contractors shall provide unit prices and quantity allowances as identified with in the specifications. See Section 012750 Unit Prices and Quantity Allowance.

PART II - SEPARATE CONTRACT DESCRIPTIONS

3.0 CONTRACT No. 3 - SITEWORK CONSTRUCTION

- A. The work of this Prime Contract Package Description consists of the Work detailed by the following specification sections and as shown or implied and indicated on the drawings. The work is not restricted by division of drawings or specification. Unless otherwise specifically noted, all work to be performed shall consist of providing all labor, materials, equipment and whatever is necessary to complete the work in accordance with the Specifications and applicable Codes. The use of the wording "Site Contractor" shall mean the same as "Sitework Contractor".

- B. SPECIFICATION SECTIONS:

INTRODUCTORY INFORMATION

All Sections

BIDDING REQUIREMENTS

All Sections

CONTRACTING REQUIREMENTS

All Sections

DIVISION 1 – GENERAL REQUIREMENTS

All Sections

DIVISION 3 – CONCRETE

All Sections (as applicable)

DIVISION 31 – EARTH WORK

All Sections

DIVISION 32 – EXTERIOR IMPROVEMENTS

All Sections

DIVISION 33 – UTILITIES

All Sections

C. Narrative description of Contract No. 4 – SITEWORK CONSTRUCTION. The work of this contract includes, but shall not be limited to the following items:

1. Provide all work indicated on the Civil and Landscaping drawings unless specifically indicated as being furnished, installed or provided by another prime contractor.
2. The Sitework Contractor will provide all engineering and layout required to perform their work. Refer to 01012-5, P.
3. Provide for sweeping and cleaning all parking lots and roadways during the work of this Prime Contract. The General Contractor to provide for these areas to be kept clean after the Sitework Contractor is substantially complete with the earthwork or during those phases of the project when the Sitework Contractor is not mobilized on the site. Provide for removal off site of all waste or excess materials generated by this work.
4. Sitework Contractor shall be responsible to remove snow as required for Site Construction.
5. Maintain and remove construction entrances.
6. Provide all quality control testing as required by the Contract Documents for the work of this Contractor, exclude testing specifically indicated to be provided by the Owner.
7. Provide temporary construction access drive, parking and staging areas. Provide and maintain stoned areas for field offices, laydown areas and temporary construction or access roads as shown or indicated by the Site Utilization Plan or Section 015000. Restore at completion of the project.
8. Provide topsoil removal and replacement, seed and mulch. The topsoil shall be stored on site as designated by the soil conservation service until ready to be re-spread as directed by the Construction Manager. Provide imported topsoil if required by the site conditions.
9. Sitework Contractor should examine the site demolition drawings that were previously bid. The Building and Site Demolition Contractor is responsible for the following items

indicated on those drawings and are therefore not a part of the Sitework Contract:

- A. Provide all Building and Site Demolition as indicated on site demolition plans.
 - B. Provide all temporary erosion control measures as indicated on the demolition drawings. Provide a temporary construction entrance.
 - C. Disconnect, plug and cap all utilities per local utility company requirements. Contact utility companies directly and coordinate that work with them. Copy Construction Manager on all correspondence.
 - D. Remove abandoned utilities and storm piping. Note that not all stormwater piping is indicated but the locations of the existing manholes are located. Contractor to remove interconnecting stormwater piping between these manholes even if not shown on demolition drawings.
 - E. Remove retaining walls.
 - F. Remove underground fuel storage tank.
 - G. Remove all items as needed to complete work.
 - H. Furnish and install temporary fencing where indicated and include rental of fencing for two months. Demolition Contractor will provide name of fence rental company for transfer of fence rental agreement to the General Contractor. Removal and return of temporary fencing will be by General Contractor.
 - I. Provide demolition of building foundations and grease pit.
 - J. Provide backfill of voids created by foundation removals to 95% compaction in areas where the proposed new building slab on grade will be above that elevation. No need for proper compaction of earth that will be removed during the next phase of construction.
 - K. Remove all trees, shrubs and other plant life, light poles, light pole bases, bollards, concrete curbs, asphalt and concrete paving, as well as other items indicated.
 - L. Gravel base under asphalt and concrete to remain when demolition activities are complete.
10. Provide additional erosion control measures that were not previously indicated on the site demolition drawings as being provided by the Demolition Contractor. The Sitework Contractor

will be responsible for installing the remainder of the erosion control devices and maintaining the erosion and sedimentation control while working on the site. The General Contractor will be responsible to maintain the erosion and sedimentation control in the phases of the project where the Sitework Contractor is not on the site. The Sitework Contractor is responsible to schedule this work to satisfy D.E.P./County Conservation District and will be responsible for any violations, fines, etc., issued by D.E.P./County Conservation District or other agencies as a result of the work not being installed, completed or maintained. During those phases when the Sitework Contractor is not on the site this will become the responsibility of the General Contractor.

11. The NPDES permit is to be obtained and paid for by the Owner and transferred, at no cost, to the Sitework Contractor. The General Contractor will be named co-permittee holders with the Sitework Contractor.
12. Provide all remaining site demolition as may be required to complete the work of this contract, including removal of all demolition debris.
13. Provide all rough earthwork to final sub grade conditions.
14. Provide all excavation and backfill required for work of this Trades Contractor. The Sitework Contractor shall excavate and provide proper OSHA approved excavation laybacks at concrete building retaining walls and building retaining wall foundations. The Sitework Contractor will stockpile a sufficient quantity of proper approved backfill material for the General Contractor to utilize for backfilling those building retaining walls. The Sitework Contractor will provide the building pad sub-grade to the correct elevation +/- 1". Variations from design subgrade shall balance so that General Contractor shall not be required to either haul-in or off of building pad earth in order to achieve design subgrade prior to placing stone base.
15. The General Contractor shall be responsible for excavation of all other foundations other than the retaining wall foundations.
16. Provide all excavation cuts and fills, including imports and exports of spoils as necessary to achieve final grades for all areas.

17. The General, Plumbing, and Electrical Contractors shall remove all excess materials resulting from the excavations for their work to a contiguous location on site. The Sitework Contractor shall load and truck all of these excess materials created by these operations and dispose of them legally offsite.
18. Provide all rock excavation as required for the work of this contract to design subgrades.
19. Verify all underground utilities prior to excavation. Furnish Construction Manager with confirmation. The utility lines shown on the drawings were located by field surveys or from utility companies' maps. These lines are not guaranteed or represented as being accurate by the Owner or their representative, or to be in the position indicated on the drawings. There is no guarantee or representation that all existing lines and facilities are shown on the Drawings.

The Contractor shall take whatever measures necessary to provide such bracing and shoring to protect all existing utilities from damage. No additional payment will be made for protecting utilities or for providing bracing and shoring. This work will be considered incidental to the work being performed.

If the Contractor damages existing utilities, he shall immediately notify the Construction Manager, the Owner and said utility company and take such measures as are necessary to ensure the safety of the workmen, the public, and the project area. He shall arrange to repair immediately all such damages to restore service and the expense incurred will be the responsibility of the Contractor.

20. It shall be the Contractor's responsibility to comply with all applicable requirements of Act 287, or as amended, in order to contact all utilities within the project site and to have facilities field located and referenced prior to excavation.
21. If the Authority Having Jurisdiction (AHJ) requires that plumbing work provided as part of site utility work be installed by a licensed master plumber, the Sitework Contractor shall employ a licensed master plumber to meet that requirement.
22. Provide all Division 23 Utilities.

23. Provide packaged utility wastewater pumping station.
24. Provide site water and fire service lines, water meter pit, tap-in, with accessories as required. Provide water line to a termination within 5' of the building line. Final connection to building pipe shall be by the Plumbing Contractor.
25. Provide site storm water work as indicated on all drawings including all inlets, headwalls, endwalls, riprap and geotextile fabrics required. Plumbing Contractor shall provide all storm water piping within the building to 5' outside the building. Final connection to building pipe shall be by the Plumbing Contractor. Provide all perimeter stormwater collection piping.
26. Provide site sanitary sewer and manholes as indicated on all drawings to a termination within 5' of the building line including sanitary force mains and gravity lines. Final connection to building pipe shall be by the Plumbing Contractor.
27. Review the plumbing drawings for coordination with site utilities and provide a complete system to allow for final connection by the Plumbing Contractor in accordance with the Plumbing Contractor's scope of work.
28. Provide complete storm water detention system.
29. Provide mowing and maintenance of lawns within the construction areas as required by the specifications until accepted by the Owner.
30. Provide bituminous paving, line striping, handicap markings, concrete bumper blocks, road and parking accessories and signs, lawn and grasses as shown or specified.
31. Sitework Contractor to clean binder paving and provide tack coat on temporary lots as required for construction phasing. Schedule for placement of binder and topcoat is to be determined by Construction Manager.
32. Provide layout, excavation, backfill and construction of concrete curbs.
33. Provide all miscellaneous site improvements as noted on the Contract Documents, unless noted specifically to be provided by

another Prime Contractor.

34. Pole-mounted light fixtures and concrete bases shall be provided by Sitework Contractor. Electrical Contractor shall provide all conduit and wiring for those light fixtures. All other site electrical work is provided by the Electrical Contractor. Electrical Contractor to provide electric to sewer pump station.
35. Electrical Contractor to provide all saw cutting, excavation, and backfill, including work for new incoming electrical service, etc. as necessary to install the work of the Electrical Contractor. Patching of sitework areas and surface restoration will be by the Sitework Contractor.
36. Provide all temporary signage and traffic control measures required by the work of this Contract.
37. Provide segmental retaining walls.
38. Sitework Contractor shall provide re-grading of the site following completion of exterior masonry as required as a result of the mason's lifts, cranes and equipment.
39. Sitework Contractor shall provide site fences and gates including decorative metal fences and gates.
40. Provide restoration of disturbed lawn areas at the completion of the work.
41. Provide temporary protection of trees and shrubs.
42. Provide all landscaping, including soil preparation, trees, shrubs, ground covers, plantings, seed, sod, mulch and edging.
43. The Sitework Contractor shall provide for the use of the GC's Structural Steel Subcontractor the following as per OSHA Standard:

"1926-752©(1) Adequate access roads into and through the site for the safe delivery and movement of derricks, cranes, trucks, other necessary equipment, and the materials to be erected and means and methods for pedestrian and vehicular control. Exceptions: this requirement does not apply to roads outside of the construction site.

1926-752©(2) A firm, properly graded, drained area, readily accessible to the work with adequate space for the safe storage of materials and the safe operation of the erector's equipment."

4.0 CONTRACT No. 4 - GENERAL CONSTRUCTION

- A. The work of this Prime Contract Package Description includes, but is not limited to, the Work detailed by the following specification sections and as shown or implied and indicated on the drawings and as described in the narrative contract description. The work is not restricted by division of drawings or specification. Unless otherwise specifically noted, all work to be performed shall consist of providing all labor, materials, equipment and whatever is necessary to complete the work in accordance with the Specifications and applicable Codes. The use of the wording "General Trades Contractor", "GTC" or "GC" shall mean the same as the "General Contractor".

B. SPECIFICATION SECTIONS:

INTRODUCTORY INFORMATION

All Sections

BIDDING REQUIREMENTS

All Sections

CONTRACTING REQUIREMENTS

All Sections

DIVISION 1 – GENERAL REQUIREMENTS

All Sections

DIVISION 3 – CONCRETE

All Sections

DIVISION 4 - MASONRY

All Sections

DIVISION 5 – METALS

All Sections

DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES

All Sections

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

All Sections

DIVISION 8 – OPENINGS

All Sections

DIVISION 9 – FINISHES

All Sections

DIVISION 10 – SPECIALTIES

All Sections

DIVISION 11 – EQUIPMENT

Section 11 1313	Loading Dock Bumpers
Section 11 1319.13	Loading Dock Levelers
Section 11 1700	Teller and Service Windows
Section 11 1900	Detention Surface Padding System
Section 11 2130	Property Storage Equipment
Section 11 2300	Laundry Equipment

DIVISION 12 – FURNISHINGS

All Sections

DIVISION 13 – SPECIAL CONSTRUCTION

All Sections

DIVISION 14 – CONVEYING SYSTEMS

All Sections

DIVISION 31 – EARTH WORK

All Sections (as applicable)

- C. Narrative Description of Contract No. 3 - GENERAL CONSTRUCTION The work of this Contract includes, but shall not be limited to the following items:

1. Provide all work indicated on the Architectural and Structural, drawings unless specifically indicated as being furnished, installed or provided by another prime contractor.
2. Provide all fees, Federal, State and Local taxes, inspections, as required to perform the work of this contract. The building permit will be paid for by the Owner and obtained by the General Contractor.

3. Provide all engineering and layout required to perform the work of this contract.
4. Utilize a professional licensed surveyor to lay out all building corners, to provide a proper benchmark elevation (or elevations) adjacent to new building location and to establish finished slab on grade elevations from those benchmarks. Benchmark(s) will be protected until after all slab on grade work, sidewalks and concrete curb work adjacent to building is completed.
5. Provide incidental erosion and sedimentation control as required for the work of this Trade Contractor's work. The Sitework Contractor will be responsible for installing and maintaining the erosion and sedimentation control while they are working on the site. The General Contractor is responsible to maintain the erosion and sedimentation control measures in the phases of the project where the Sitework Contractor is not on the site. The General Contractor is responsible to schedule his work to satisfy D.E.P./County Conservation District and will be responsible for any violations, fine, etc., issued by D.E.P./County Conservation District or other agencies as a result of the work not being installed, completed or maintained during those phases when the Sitework Contractor is not on the site.
6. The NPDES permit is to be obtained and paid for by the Owner and transferred, at no cost, to the Sitework Contractor. The General Contractor will be named co-permittee holders with the Sitework Contractor.
7. Provide temporary railings and protection at all floor openings, stairs, elevated floor perimeters, roof openings, roof perimeters, etc., as required by OSHA. Protection for excavations shall become the sole responsibility of the Trade Contractor conducting the excavation.
8. Provide temporary toilet facilities as per specification Section 015000.
9. Provide general snow removal through-out the project in order to facilitate construction. Remove snow from roof surfaces and roof deck in order to facilitate installation of roofing system. Sitework Contractor shall be responsible to remove snow as

required for Site Construction.

10. Perform all final cleaning except work specified to be by another trade.
11. Provide an on-site office trailer for the General Contractor's use that shall be large enough for job conferences with 12 people. Trailer shall be a minimum of 12' wide by 48' long and shall be equipped with an 8' conference table with a minimum of 12 office chairs for job conferences. Provide set up of trailer including stairs and landing, skirting, wheel blocking and anchorage. Location shall be as directed by the Construction Manager.
12. Provide construction identification sign per specification Section 015000 and per USDA's standard.
13. The Building and Demolition Contractor shall furnish and install temporary fencing where indicated on the site demolition drawings and include rental of fencing for two months. Demolition Contractor will provide name of fence rental company for transfer of fence rental agreement to the General Contractor. The General Contractor will pay for the rental of the fence for the remainder of the project. Removal and return of temporary fencing will be the responsibility of the General Contractor.
14. The Building and Site Demolition Contractor will provide all mass building and site demolition work required for the project unless noted otherwise. The Building and Site Demolition Contractor will disconnect and cap existing services and systems feeding the existing onsite buildings scheduled for demolition.
15. Provide all excavation and backfill required for work of this Trades Contractor with the exception that the Sitework Contractor shall excavate and provide proper OSHA approved excavated laybacks at concrete building retaining walls and building retaining wall foundations. The Sitework Contractor will stockpile a sufficient quantity of proper approved backfill material for the General Contractor to utilize for backfilling those building retaining walls. The Sitework Contractor will provide the building pad sub-grade to the correct elevation +/- 1". Variations

from design subgrade shall balance so that General Contractor shall not be required to either haul-in or off of building pad earth in order to achieve design subgrade prior to placing stone base. The General Contractor shall accept the building pad and be responsible for restoring proper subgrade elevations prior to placing his stone base for slab-on-grade.

16. The General Contractor shall be responsible for excavation of all other foundations other than the retaining wall foundations.
17. The Sitework Contractor shall provide for sweeping and cleaning all parking lots and roadways during the period when earthwork operations are proceeding. The General Contractor is to provide for these areas to be kept clean after the Sitework Contractor is substantially complete with the earthwork. The Sitework Contractor is to provide for removal off site of all waste or excess materials generated by this work.
18. Provide all building concrete work including foundations, slabs on grade, slabs on deck, elevator pits, topping slabs, pads, walls, stairs and miscellaneous concrete. Provide all formwork, reinforcing, expansion control, fine grading, stone base, vapor barrier, rigid insulation, finishing, curing, accessories, etc necessary for this work.
19. Note that the concrete retaining wall must be backfilled prior to any floor framing being placed.
20. The General Contractor shall remove all excess materials resulting from the excavations for his work from the building pad area to a contiguous location on site. Location to be determined by the Construction Manager.
21. The General Contractor is to furnish, lay out all and install all reinforcing steel.
22. Provide all site concrete paving, sidewalks, ramps, steps, stoops and frost walls including reinforcing steel. Site curbs shall be provided by the Sitework Contractor.
23. Make provisions for and/or install all items embedded in concrete supplied by other Prime Contractors.

24. MEP trades are to provide all housekeeping and equipment pads required for their work.
25. General Contractor shall provide all concrete equipment pads required for the Food Service and Laundry Equipment Contractor's equipment.
26. Provide concrete for metal pan stairs and landings.
27. Provide all precast concrete cells along with items and finishes identified as being preinstalled offsite. Coordinate erection sequencing between the GC's structural steel erector, The GC's concrete subcontractor, the GC's masonry subcontractor and the GC's precast cell erector. There may be a need to sequence a portion of the buildings concrete foundations and steel erection to permit the precast concrete cell erector access to install some of the interior precast concrete cells. These precast cells weigh in excess of 20 tons each.
28. General Contractor's Precast Concrete Cell subcontractor shall coordinate Fire Protection, Plumbing, HVAC and Electrical requirements with those Prime Contractors to ensure complete fire protection and MEP system components are made completely operational.
29. Provide all precast hollow core plank.
30. Provide all masonry including all accessories.
31. Provide temporary enclosures, winter protection and heat as required to install work of this contract in conformance with the project schedule.
32. Provide all masonry anchors and structural anchor straps including field welding to structural steel if required.
33. Provide dowels, embeds, concrete lintels etc. Install anchor bolts, embeds, loose steel lintels, etc., as furnished under other Prime Contracts, and installed in masonry.
34. Provide grouting of structural members into masonry.

35. Provide grouting of hollow metal and security frames in masonry.
36. Install any access panels in masonry furnished by other Prime Contractors. Coordinate location and openings with Prime Contractors.
37. Provide masonry cavity wall insulation or inserts as shown or specified.
38. Provide all flashings.
39. Provide final cleaning of masonry. Provide washdown of exposed masonry surfaces.
40. Provide all window stools.
41. All cranes are required to have FAA approved flashing beacon lights due to helicopters landing at the hospital across the street. General Contractor to provide the FAA and the Uniontown Hospital's officials the proper advanced notice of when any crane work will occur along with the approximate duration the crane will be there.
42. Provide all structural steel, steel joists, metal decking, structural steel shapes/members/elements indicated on the Structural or Architectural drawings.
43. Provide openings and framing in all new floor and roof decks for other trades with any dimension larger than 12". Contractor requiring opening shall provide layout for openings. Openings with both dimensions smaller than 12" shall be provided by the Contractor requiring the opening. Review architectural and MEP drawings for opening locations that may not be indicated on structural drawings.
44. Furnish and install 2 runs of continuous safety cables at elevated floor perimeters and floor openings. Provide turnbuckles at appropriate intervals to permit tightening of safety cables to OSHA approved tolerances without the use of come-a-longs. Turnbuckles shall be no further than 150 feet apart. General

Contractor shall remove safety cables when no longer required.

45. With respect to OSHA requirements for steel erection, the General Contractor shall be the "controlling Contractor" responsible to provide written notification for work of their contract, to the steel erector. Please reference OSHA regulations sections 1926.750 through 1926.752, etc.
46. Provide installation, grouting and leveling of base and bearing plates.
47. Provide all miscellaneous metals, metal stairs, railings and cold-formed metal fabrications.
48. Provide all loose metal lintels as noted and for masonry openings shown on architectural or structural drawings. All loose lintels required, but not clearly shown, scheduled or dimensioned on either architectural or structural drawings shall be furnished by the trade requiring the opening. General Contractor's Masonry Subcontractor to install loose steel lintels furnished by other trades. The Prime Contractor requiring the opening shall provide lay out for lintel installations to the Masonry Subcontractor in a timely manner.
49. Provide all light gage metal framing.
50. Provide all expansion joints and covers not specifically noted to be provided by other prime contracts.
51. Provide rough carpentry including but not limited to interior wood blocking - shown or required and roof blocking.
52. Provide all finish carpentry including but not limited to, custom millwork and casework. All architectural wood casework supplied under this contract that has exposed wood elements shall have these elements shop finished prior to delivery to the project site. Shop finish shall be as approved by the Architect during the shop drawing process.
53. Provide all solid surface materials. GC to coordinate cut-outs for sinks and toilet accessories with Plumbing Contractor.

54. Provide all waterproofing and damp proofing.
55. Provide all under slab and foundation insulation. Provide all insulation that is not provided by another Prime Contractor.
56. Provide all weather barriers.
57. Provide all roof systems.
58. Provide all rigid roof insulation.
59. Provide all gutters, downspouts, scuppers and roof accessories.
60. Provide all exterior metal roof fascia and soffit materials and associated wood blocking.
61. Provide all metal flashings, copings, and roof edgings as required and indicated for a complete roofing installation.
62. Roof drains will be furnished and installed by the Plumbing Contractor.
63. Provide all splash blocks and walkway pads as indicated.
64. Provide all roof blocking, anchor bolts and nailers as required.
65. Install all kitchen equipment curbs, furnished by the Food Service Contractor.
66. Provide roofing expansion joints and covers.
67. Provide all properly executed roof warranties.
68. Provide all roof penetration boots, flashings and counter flashings as required.
69. Provide and maintain protection of roof edges and penetrations during the work of this Contract.
70. HVAC Contractor shall furnish curbs as required for all roof-mounted equipment to General Contractor for installation. Wood blocking at roof openings to be provided by the General

Contractor. Coordinate blocking locations and requirements with HVAC Contractor.

71. Cut openings in new roof membrane and insulation for installation of new roof penetrations and openings.
72. Provide all metal wall panels.
73. Provide firestopping for work of this contract and general firestopping not provided under the other prime contracts. Refer to remainder of Prime Contract Descriptions for work of the other prime contracts.
74. Provide all Intumescent fire protection on all exposed to view structural steel that requires a fire rating.
75. Provide all sprayed-on fireproofing.
76. Provide roof hatches and roof ladders.
77. Provide all joint sealants related to the work of this Trades Contractor.
78. Provide all hollow metal frames, doors and borrowed lite frames. Provide toothing of masonry if the hollow metal or security frames are not delivered in accordance with the project schedule.
79. Provide all detention doors and frames. Coordinate associated electrical components with the Electrical Contractor's Security subcontractor.
80. Provide all aluminum entrances and storefronts, aluminum windows, glass and glazing systems. Include all misc. flashings and copings as required for each system, unless clearly noted by Contract Documents, to be provided by another prime Contractor.
81. Provide additional structural members as maybe required for the installation of glass and glazing systems, but not clearly indicated on Structural drawings.

82. Provide brakemetal interior and exterior window, storefront and curtain wall trim.
83. Provide miscellaneous glass and glazing at hollow metal doors, frames and wood doors.
84. Provide stainless steel and aluminum doors and door frames.
85. Provide finish hardware for all doors.
86. Provide spandrel insulation where indicated.
87. Provide all security windows and window screens.
88. Provide all access doors and panels as shown on Architectural drawings. Install all indicated access panels in this Contractor's work furnished by other trades. All access panels required but not shown shall be provided by the Contractor requiring the same.
89. Provide all coiling doors, coiling counter doors, and overhead doors.
90. Provide finish hardware for all doors provided as part of this contract as well as cylinders for all doors.
91. Provide all detention door hardware.
92. Provide all interior metal studs, sound batt insulation and gypsum wallboard systems.
93. Provide acrylic plaster finishes where indicated.
94. Provide all adhesives, mastics, edgings, nails, binding, tape, floor fillers, primers, cleaners, etc. for a complete finish flooring product.
95. Provide assurance/guarantee of compatibility of adhesive with existing floor conditions and with leveling/patching material provided as work of this contract.
96. Provide floor and/or wall preparation prior to installation of the

materials of this contract, to include normal/reasonable flash patching, final scraping and sweeping.

97. Should floor moisture emissions exceed manufacturers recommended levels for standard adhesive, Contractor shall provide, at no additional cost, appropriate special adhesives or sealers that will allow floors to be installed without adversely affecting the project schedule in accordance with the manufacturer's recommendations.
98. Provide protection of finished surfaces until finishes have been accepted by the Owner.
99. Provide all reducer strips and transition strips to dissimilar floor finishes and floor transitions.
100. Provide all flooring and base required.
101. Provide extra stock of flooring and base as specified.
102. Provide all porcelain, ceramic and quarry tile finishes.
103. Provide extra material of each type of tile as per the specifications.
104. Provide all acoustical ceiling systems including hanging wire, wall angle, main runner grid, T-grid, ceiling tiles, edge banding, etc.
105. Provide security ceiling assemblies.
106. Provide extra stock of each type of ceiling tiles as specified.
107. Provide all expansion joint covers and sealants in ceiling-to-ceiling and ceiling to wall applications as required in areas to receive new acoustical ceilings.
108. Participate in the coordination drawing process as defined in this specification section Part 1.4.P.
109. Provide painting of all walls, ceilings, doors, door frames, wood surfaces, misc. metals, etc. as scheduled.

- 110. Provide painting of exposed HVAC, plumbing, fire protection and electrical systems and equipment in finished spaces (except factory-finished equipment).
- 111. Provide extra stock of each color and type of paint.
- 112. Provide primer touch-up and paint finish for all hollow metal frames, doors, steel lintels or other metal surfaces indicating finish.
- 113. Provide surface preparation as specified or required.
- 114. Provide field finishing of new and existing architectural woodwork as shown or specified unless noted to be prefinished.
- 115. Disposal of all hazardous materials shall be done in accordance with Federal, State, County and Local requirements. No hazardous materials shall be placed in the Owner's or other party's waste containers or dumpster.
- 116. Paint all site miscellaneous metals as required.
- 117. Paint all structural and miscellaneous metals exposed to public view or scheduled to be finished.
- 118. Provide all high-performance coatings.
- 119. Provide for protection of all finished installations under this contract until acceptance by the Owner.
- 120. Provide all Specialties indicated in Division 10 – Specialties.
- 121. Refurbish and reinstall the existing flagpole. The Demolition contractor shall remove and salvage the existing flagpole and turn over to the General Contractor.
- 122. Provide all equipment in Division 11 - Equipment, except for the Food Service Equipment Section 114000.
- 123. Provide laundry equipment.

- 124. Provide all window treatments.
- 125. General Contractor shall set, and grout kitchen drain pan furnished by the Food Service Equipment Contractor.
- 126. Provide new elevators including all testing and permits as required.
- 127. General Contractor will be responsible for the cost of up to and including two Labor and Industry elevator inspections. Any cost associated with additional inspections beyond the second inspection will be equally distributed to the parties that were responsible for the previous failure.
- 128. Grout elevator sills.

5.0 CONTRACT No. 5 - FOOD SERVICE EQUIPMENT

A. The work of this Prime Contract Package Description includes, but is not limited to, the Work detailed by the following Specification Sections and as shown or implied and indicated on the Drawings and as described in the narrative Contract Description. The work is not restricted by the division of Drawings or Specification. Unless otherwise specifically noted, all work to be performed shall consist of providing all labor, materials, equipment and whatever is necessary to complete the work in accordance with the Specifications and applicable Codes.

B. SPECIFICATION SECTIONS:

INTRODUCTORY INFORMATION

All Sections

BIDDING REQUIREMENTS

All Sections

CONTRACTING REQUIREMENTS

All Sections

DIVISION 1 – GENERAL REQUIREMENTS

All Sections

DIVISION 11 – EQUIPMENT

Section 114000 Food Service Equipment

C. Narrative description of Contract No. 5 - FOOD SERVICE EQUIPMENT:
The work of this contract includes, but shall not be limited to the following items:

1. Provide all work indicated on the Food Service Equipment Drawings unless specifically indicated as being furnished, installed or provided by another prime contractor.
2. Submit shop drawings, samples, schedules, manuals, as-built drawings, etc. as required by the Contract Documents. Update, on a weekly basis, a record set of drawings in the Construction Manager's office. A final set of As-Built drawings of this Contractor's work shall be submitted to the Construction Manager upon completion of the work.
3. Provide Operation and Maintenance manuals and instructions to

Owner as specified.

4. Coordinate the location and sizing of mechanical and electrical connections with HVAC, Plumbing, and Electrical Contractors.
5. Provide kitchen equipment layouts and fabrication drawings giving locations, dimensions off column lines, elevations, etc. for rough-in and final connections of HVAC, plumbing and electrical service.
6. Provide general and final cleanup of kitchen equipment.
7. Provide all kitchen equipment as shown or specified. Provide finish trim as required.
8. Provide setting of all equipment. The final HVAC, plumbing, and electrical connections will be by others. Coordinate these connections with those Prime Contractors.
9. Furnish any embeds required to be cast in concrete or masonry to the appropriate Prime Contractors.
10. Furnish roof curbs and all other equipment associated with the food service equipment to the appropriate Contractors for installation.
11. Provide all sealant work as related to food service equipment and required by Department of Health, D.E.P., etc.
12. Provide any access panels, which are required for access to the work by this Contract and not shown on the Architectural drawings. Coordinate opening requirements with the other Prime Contractors.
13. Provide firesafing and firestopping at all locations that are required to maintain a fire rating at floor and wall penetrations required as a result of the work of this Contract. All new and/or existing penetrations at walls or ceilings related to this scope of work shall be fire caulked by this Contractor.
14. General Contractor shall provide all concrete equipment pads required for the Food Service Contractor's equipment.
15. Provide exhaust hoods including fire suppression systems.

6.0 CONTRACT No. 6 - FIRE PROTECTION CONSTRUCTION

A. The work of this Prime Contract Package Description includes, but is not limited to, the Work detailed by the following specification sections and as shown or implied and indicated on the drawings and as described in the narrative contract description. The work is not restricted by the division of drawings or specification. Unless otherwise specifically noted, all work to be performed shall consist of providing all labor, materials, equipment and whatever is necessary to complete the work in accordance with the specifications and applicable codes. The use of the wording "Fire Suppression Contractor" or "Sprinkler Contractor" shall mean the same as the "Fire Protection Contractor".

B. SPECIFICATION SECTIONS:

INTRODUCTORY INFORMATION

All Sections

BIDDING REQUIREMENTS

All Sections

CONTRACTING REQUIREMENTS

All Sections

DIVISION 1 – GENERAL REQUIREMENTS

All Sections

DIVISION 03 – CONCRETE

All Sections (as applicable)

DIVISION 05 – METALS

Section 055000 Metal Fabrications (as applicable)

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section 078400 Firestopping (as applicable)

Section 079200 Joint Sealants (as applicable)

DIVISION 08 – OPENINGS

Section 083100 Access Doors and Frames

DIVISION 21 – FIRE SUPPRESSION

All Sections

DIVISION 26 – ELECTRICAL (as Applicable)

- C. Narrative Description of Contract No. 6 – FIRE PROTECTION CONSTRUCTION: The work of this Contract includes, but shall not be limited to the following items:

General Requirements:

1. Provide all work indicated on the Fire Protection drawings unless specifically indicated as being furnished, installed or provided by another prime contractor.
2. Participate in the coordination drawing process as defined in this specification section Part 1.4.P.
3. Provide de-watering of excavations for work of this Contract.
4. Provide Operation and Maintenance instruction manuals and specified training to the Owner. Provide copies of all test results to the Construction Manager.
5. Provide layout for the General Construction Contractor indicating all openings in the new floor and roof decks that have any dimension larger than 12". Openings required as a result of the work of this contract with both dimensions smaller than 12" shall be provided by the Fire Protection Contractor, who shall also provide support steel at these openings as required. All other framing, lintels, miscellaneous supports, etc., required but not shown on the architectural or structural drawings shall be by the Contractor requiring it for their work.
6. Provide protection of structure, finishes and landscaping from damage resulting from the work of this Contract. Repair any damage promptly to the satisfaction of the Owner.
7. General Contractor shall provide all steel, not including loose lintels and miscellaneous metal for the new building. The trade requiring a lintel, which is not clearly indicated on either the architectural or structural drawings, shall provide those lintels required to install his work.

8. Provide painting for “touch up” required to restore “factory finished” equipment and material to its original condition.

Project Requirements:

1. Provide all sprinkler work including sprinkler piping, heads, flow and tamper switches, trim, accessories, supports unless shown or specified by others, anchorage, etc., as shown and/or specified in order to have 100% sprinkler coverage throughout the buildings.
2. Provide metal sprinkler pipe enclosures under day-room mezzanine walkways and where indicated.
3. Provide color-coding and identification of valves and lines as indicated.
4. Provide cleaning and testing of lines and equipment. Include final inspection. Provide testing of underground fire protection lines per NFPA 13 requirements.
5. Provide wall sleeves, flashing, pipe hangers, supports, blocking, etc. as required for installation of fixtures and equipment.
6. General Contractor to provide all loose metal lintels as noted for masonry openings shown on architectural or structural drawings. All loose lintels required, but not clearly shown, scheduled or dimensioned on either Architectural or Structural drawings shall be furnished by the trade requiring the opening. General Contractor to install loose steel lintels furnished by other trades. The prime Contractor requiring the opening shall provide lay out for lintel installations to the General Contractor’s Masonry Subcontractor in a timely manner.
7. Verify existing services prior to start of work in existing facility and notify the Construction Manager of any discrepancies.
8. Provide any housekeeping and equipment pads required for equipment (interior or exterior) that are required for the work of this Contract.
9. Furnish any embeds and sleeves required to be cast in concrete or masonry to the appropriate Prime Contractor.

10. Perform final connection to sprinkler service provided by another Prime Contractor.
11. Provide fire pump and standpipe system.
12. Provide firesafing and firestopping at all locations that are required to maintain a fire rating at floor and wall penetrations required as a result of the work of this Contract.
13. Provide and install any access panels, which are required for access to the work by this Contract. Coordinate opening requirements with the General Contractor's Masonry Subcontractor and Acoustical Ceiling Subcontractor.
14. Coordinate tie in of sprinkler system to fire alarm system with Electrical Contractor. Provide flow and tamper switches for connection to fire alarm system.
15. Work must be complete and tested to meet the requirements of PA L&I and Local code for each phase.
16. Provide maintenance and testing of the fire suppression system for one year after final completion, perform on a quarterly basis.

7.0 CONTRACT No. 7 - PLUMBING CONSTRUCTION

- A. The work of this Prime Contract Package Description includes, but is not limited to, the Work detailed by the following specification sections and as shown or implied and indicated on the drawings and as described in the narrative contract description. The work is not restricted by the division of drawings or specification. Unless otherwise specifically noted, all work to be performed shall consist of providing all labor, materials, equipment and whatever is necessary to complete the work in accordance with the specifications and applicable codes.

B. SPECIFICATION SECTIONS:

INTRODUCTORY INFORMATION

All Sections

BIDDING REQUIREMENTS

All Sections

CONTRACTING REQUIREMENTS

All Sections

DIVISION 1 – GENERAL REQUIREMENTS

All Sections

DIVISION 31 – EARTHWORK

Section 312316.13 Trenching (as applicable)

Section 312319 Dewatering (as applicable)

DIVISION 03 – CONCRETE

All Sections (as applicable)

DIVISION 05 – METALS

Section 055000 Metal Fabrications (as applicable)

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section 078400 Firestopping (as applicable)

Section 079200 Joint Sealants (as applicable)

DIVISION 08 – OPENINGS

Section 083100 Access Doors and Frames (as applicable)

DIVISION 11 – EQUIPMENT

Section 112300 Laundry Equipment (as applicable)

Section 114000 Food Service Equipment (as applicable)

DIVISION 21 – FIRE SUPPRESSION

All Sections (as applicable)

DIVISION 22 - PLUMBING

All Sections

DIVISION 26 – ELECTRICAL

As Applicable

- C. Narrative description of Contract No. 7 – PLUMBING CONSTRUCTION:
The work of this Contract includes, but shall not be limited to the following items:

General Requirements:

1. Provide all work indicated on the Plumbing drawings unless specifically indicated as being furnished, installed or provided by another prime contractor.
2. See food service equipment, laundry equipment, architectural and civil drawings for additional plumbing related notes.
3. Participate in the coordination drawing process as defined in this specification section Part 1.4.P.
4. Provide Operation and Maintenance manuals and instructions to Owner as specified.
5. Provide layout for the General Construction indicating all openings in the new floor and roof decks that have any dimension larger than 12". Openings required as a result of the work of this contract with both dimensions smaller than 12" shall be provided by the Plumbing Contractor, who shall also provide support steel at these openings as required. All other framing, lintels, miscellaneous supports, etc., required but not shown on the architectural or structural drawings shall be by the Contractor requiring the opening.

6. Verify existing services prior to start of work in existing facility and notify the Construction Manager of any discrepancies.
7. General Contractor will provide all steel including loose lintels and miscellaneous metals indicated on architectural or structural drawings. If not indicated on architectural or structural drawings, the Plumbing Contractor will provide as required for his work.

Project Requirements:

1. Provide all plumbing work including sanitary sewer and vent piping, domestic water piping and equipment, gas piping, pipe insulation, roof and floor drains, plumbing fixtures, trim, accessories, supports unless shown or specified by others, anchorage, etc., as shown and/or specified.
2. Coordinate plumbing requirements with the General Contractors Precast Concrete Cell Subcontractor to ensure a complete plumbing system to make all plumbing components completely operational.
3. Provide a complete storm water system as shown on plumbing or civil drawings, to 5' outside of building. Provide final tie-in (of storm sewer). Coordinate with Sitework Contractor.
4. Condensate drain lines, if required for HVAC equipment shall be provided by the HVAC Contractor.
5. Provide a complete domestic water and sanitary system as shown on plumbing or civil drawings to 5' outside of building. Provide final tie-in (of domestic water and sanitary system). Coordinate work with Sitework Contractor and Fire Protection Contractor.
6. The Sitework Contractor shall provide the packaged utility wastewater pumping station and precast concrete valve vaults and meter boxes per division 33 Utilities.
7. Provide for a complete building and site gas services as noted on documents. The underground gas service to the meter is by the Utility Company. Coordinate site gas line work with Natural Gas

Company and any of the lines they are providing.

8. Provide sump pumps and applicable drainage piping where required.
9. Provide underground radon system as indicated on structural drawings and plumbing drawings. Coordinate with General Contractor with the work they are providing. Provide an add alternate for above ground piping. The add alternate fans for this system will be provided by the HVAC Contractor.
10. Provide color-coding and identification of valves and lines as indicated.
11. Provide cleaning, disinfecting and testing of lines and equipment, and final inspection.
12. Provide wall sleeves, flashing, pipe hangers, supports, blocking, etc. as required for installation of fixtures and equipment.
13. Provide insulation required for the scope of this Contract.
14. Provide all excavation, bedding and backfill, etc. as necessary to install the work of this Contract.
15. Provide any housekeeping and equipment pads required for equipment (interior or exterior) that are required for the work of this Contract.
16. Furnish any embeds required to be cast in concrete or masonry to the appropriate Prime Contractor.
17. Provide concrete at all services crossing under or near foundations that require excavated area to be filled with concrete.
18. Coordinate with the General Contractor's Masonry Subcontractor installation of piping installed inside masonry units; include providing any temporary supports that are necessary.
19. General Contractor to provide all loose metal lintels as required for masonry openings shown on architectural or structural

drawings. All loose lintels required, but not clearly indicated on either architectural or structural drawings shall be furnished by the trade requiring the opening. General Contractor's Masonry Subcontractor to install loose steel lintels furnished by other trades. The Prime Contractor requiring the opening shall provide lay out for lintel installations to General Contractor's Masonry Subcontractor in a timely manner.

20. Provide fire-safing and fire-stopping at all locations that are required to maintain a fire rating at floor and wall penetrations required as a result of the work of this Contract.
21. Provide any access panels, which are required for access to the work by this Contract that are not indicated on the architectural drawings. Coordinate opening requirements with the General Contractor's Masonry Subcontractor and Acoustical Ceiling Subcontractor.
22. Provide final plumbing connection of all casework and equipment as required.
23. Provide final cleaning of all fixtures.
24. Furnish roof drains; turn over to the General Contractor's Roofing and Sheet Metal Subcontractor for installation.
25. All fused disconnects will be provided by the Electrical Contractor. Refer to the drawings and specifications for the motor starters and disconnects. VFDs will be provided by the contractor providing the equipment.
26. Review Food Service and Laundry Equipment Specifications and Drawings for required plumbing work. Provide all plumbing work as required to provide a functioning kitchen and laundry but not clearly identified as being provided by the Food Service and Laundry Equipment Contractor.
27. Provide temporary water service for construction purposes.
28. Work must be complete and tested to meet the requirements of PA L&I and Local code inspections for each phase.

8.0 CONTRACT No. 8 - HVAC CONSTRUCTION

A. The work of this Prime Contract Package Description includes, but is not limited to, the Work detailed by the following specification sections and as shown or implied and indicated on the drawings and as described in the narrative contract description. The work is not restricted by the division of drawings or specification. Unless otherwise specifically noted, all work to be performed shall consist of providing all labor, materials, equipment and whatever is necessary to complete the work in accordance with the specifications and applicable codes. The use of the wording "Mechanical Contractor" or "Heating Contractor" shall mean the same as the "HVAC Contractor".

B. SPECIFICATION SECTIONS:

INTRODUCTORY INFORMATION

All Sections

BIDDING REQUIREMENTS

All Sections

CONTRACTING REQUIREMENTS

All Sections

DIVISION 1 – GENERAL REQUIREMENTS

All Sections

DIVISION 03 – CONCRETE

All Sections (as applicable)

DIVISION 05 – METALS

Section 055000 Metal Fabrications (as applicable)

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section 078400 Firestopping (as applicable)

Section 079200 Joint Sealants (as applicable)

DIVISION 08 – OPENINGS

Section 083100 Access Doors and Frames (as applicable)

DIVISION 11 – EQUIPMENT

Section 112300 Laundry Equipment (as applicable)

Section 114000 Food Service Equipment (as applicable)

DIVISION 23 - HVAC

All Sections

- C. Narrative Description of Contract No. 8 - HVAC CONSTRUCTION: The work of this Contract includes, but shall not be limited to the following items:

General Requirements:

1. Provide all work indicated on the HVAC or Mechanical drawings unless specifically indicated as being furnished, installed or provided by another prime contractor.
2. Participate in the coordination drawing process as defined in this specification section Part 1.4.P.
3. Provide Operation and Maintenance instruction manuals and specified training to the Owner.
4. Provide layout for the General Construction Contractor indicating all openings in the new floor and roof decks that have any dimension larger than 12". Openings required as a result of the work of this contract with both dimensions smaller than 12" shall be provided by the HVAC Contractor, who shall also provide support steel at these openings as required. All other framing, lintels, miscellaneous supports, etc., required but not shown on the architectural or structural drawings shall be by the Prime Contractor requiring the framing.
5. Provide protection of structure, finishes and landscaping from damage resulting from the work of this Contract. Repair any damage promptly to the satisfaction of the Owner.
6. General Contractor to provide all loose metal lintels as noted for masonry openings indicated on architectural or structural drawings. All loose lintels required, but not clearly indicated on either architectural or structural drawings shall be furnished by the trade requiring the opening. General Contractor's Masonry Subcontractor to install loose steel lintels furnished by other trades. The prime Contractor requiring the opening shall provide

lay out for lintel installations to the General Contractor's Masonry Subcontractor in a timely manner.

7. Provide painting for "touch up" required to restore "factory finished" equipment and material to its original condition.

Project Requirements:

1. Provide all Heating, Ventilation, Air Conditioning (HVAC) work as shown or specified including but not limited to vibration isolation, HVAC equipment, ductwork, duct insulation, boilers, chillers, flues, expansion tanks, heat recovery units, condensing units, pipe, piping systems, pipe insulation, water treatment, roof top units, condensers and accessories, air distribution outlets and inlets; instrumentation; test and balance of systems; valving and coil connections; air handlers; fan coil units; fire and smoke dampers; inspections; identification; roof ventilators; curbs; fans; unit and cabinet heaters; terminal equipment; pumps; hangers; blocking; support pipe anchors; supports unless designated specifically by the General Contractor, wall sleeves and flashing, etc. as shown and/or specified.
2. Coordinate HVAC requirements with the General Contractors Precast Concrete Cell Subcontractor to ensure a complete HVAC system to make all HVAC components completely operational.
3. Install ductwork in accordance with the latest recommendations of ASHRAE and SMACNA for low and medium pressure ductwork.
4. HVAC Contractor to provide pumps at locations where condensate lines cannot be gravity drained.
5. Provide testing and cleaning of distribution systems and equipment and final inspection.
6. Coordinate connections of equipment, dampers etc. as required to the fire alarm system with the Electrical Contractor.
7. Provide identification of equipment, valves, piping and ductwork as required.

8. Provide all excavation, bedding, backfill, etc., as necessary to install the work of this Contract.
9. Provide any housekeeping and equipment pads required for equipment (interior or exterior) that are required for the work of this Contract,
10. Furnish any embeds required to be cast in concrete or masonry to the appropriate Prime Contractor.
11. Provide for miscellaneous structural or misc. steel framing as required as result of this Contract, but not clearly shown on architectural or structural drawings.
12. HVAC Contractor shall furnish curbs as required for all roof-mounted equipment to the General Contractor's Roofing and Sheet Metal Subcontractor. Wood blocking at roof openings to be provided by the General Contractor. Coordinate blocking locations and requirements.
13. Provide firesafing/firestopping at all locations that are required to maintain a fire rating at floor and wall penetrations required as a result of the work of this Contract.
14. Provide all insulation required for the scope of this Contract.
15. Provide any access panels, which are required for, access to the work by this Contract that are not indicated on the architectural drawings. Coordinate opening requirements with the General Contractor.
16. Provide all exterior louvers and vents that are not indicated as "by General Contractor".
17. Coordinate/layout openings required in new construction with the General Contractor.
18. Provide final HVAC connection of Laundry and Kitchen Equipment. Provide all ductwork components which are not indicated to be provided by another trade but are required to provide a complete and functional project.

19. Coordinate tie-in of ventilation control system to fire alarm system with Electrical Contractor.
20. All fused disconnects will be provided by the Electrical Contractor. Refer to drawings and specifications for motor starters and disconnects. VFDs will be provided by the Contractor providing the equipment.
21. Provide heat tracing for own work.
22. Install any loose duct smoke detectors furnished by the Electrical Contractor that have not been provided with the HVAC equipment. Most of the duct smoke detectors are to be provided with the HVAC equipment.
23. See section 01 50 00 – Temporary Facilities and Utilities section for temporary heating, air conditioning and humidity requirements.
24. HVAC Contractor shall provide temporary air conditioning or dehumidification for installation of materials requiring conditioned spaces if permanent system is not operational at the time air conditioning or dehumidification is required for installation of millwork, flooring, casework, countertops, ceiling tile, etc.
25. Systems must be complete, operational and tested to meet the requirements of PA L&I and Local code for each phase.
26. Assist and cooperate with the Owner's Commissioning Agent.

9.0 CONTRACT NO. 9 - ELECTRICAL CONSTRUCTION

A. The work of this Prime Contract Package Description includes, but is not limited to, the Work detailed by the following specification sections and as shown or implied and indicated on the drawings and as described in the narrative contract description. The work is not restricted by the division of drawings or specification. Unless otherwise specifically noted, all work to be performed shall consist of providing all labor, materials, equipment and whatever is necessary to complete the work in accordance with the specifications and applicable codes.

B. SPECIFICATION SECTIONS:

DIVISION 31 – EARTHWORK

Section 312316.13 Trenching (as applicable)

Section 312319 Dewatering (as applicable)

DIVISION 03 – CONCRETE

All Sections (as applicable)

DIVISION 05 – METALS

Section 055000 Metal Fabrications (as applicable)

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section 078400 Firestopping (as applicable)

Section 079200 Joint Sealants (as applicable)

DIVISION 08 – OPENINGS

Section 083100 Access Doors and Frames

Section 087100 Door Hardware (as applicable)

Section 087163 Detention Door Hardware (as applicable)

DIVISION 11 – EQUIPMENT

Section 111319.13 Loading Dock Levelers (as applicable)

Section 112130 Property Storage Equipment (as applicable)

Section 112300 Laundry Equipment (as applicable)

Section 114000 Food Service Equipment (as applicable)

DIVISION 13 – Special Construction

Section 134263 Precast Concrete Detention Equipment (as applicable)

DIVISION 14 – CONVEYING EQUIPMENT

All Sections (as applicable)

DIVISION 21 – FIRE SUPPRESSION

All Sections (as applicable)

DIVISION 22 – PLUMBING

All Sections (as applicable)

DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING

All Sections (as applicable)

DIVISION 26 – ELECTRICAL

All Sections

DIVISION 27 – COMMUNICATIONS

All Sections

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

All Sections

- C. Narrative Description of Contract No.9 – ELECTRICAL CONSTRUCTION:
The work of this contract includes, but shall not be limited to the following items:

GENERAL REQUIREMENTS

1. Provide all work indicated on the Electrical, Security and Telecommunications drawings unless specifically indicated as being furnished, installed or provided by another prime contractor.
2. See food service equipment, laundry equipment, architectural and civil drawings and specifications for additional electrical related notes.
3. Participate in the coordination drawing process as defined in this specification section Part 1.4.P.
4. Provide all excavation, bedding, backfill, etc., as necessary to install the work of this Contract.

5. Provide de-watering of excavations for work of this Contract.
6. Provide Operation and Maintenance instruction manuals and specified training to the Owner.
7. Provide layout for the General Construction Contractor indicating all openings in the new floor and roof decks that have any dimension larger than 12". Openings required as a result of the work of this contract with both dimensions smaller than 12" shall be provided by the Electrical Contractor, who shall also provide support steel at these openings as required. All other framing, lintels, miscellaneous supports, etc., required but not shown on the architectural or structural drawings shall be by the Prime Contractor requiring the framing.
8. Verify existing services prior to start of work and notify the Construction Manager of any discrepancies.
9. General Contractor to provide all loose metal lintels as noted for masonry openings shown on architectural or structural drawings. All loose lintels required, but not clearly indicated on either architectural or structural drawings shall be furnished by the trade requiring the opening. General Contractor's Masonry Subcontractor to install loose steel lintels furnished by other trades. The prime Contractor requiring the opening shall provide lay out for lintel installations in a timely manner.
10. Provide start up and training as required by the Contract Documents.
11. Review temporary facilities and controls and electrical specifications for temporary electric requirements. Temporary electric shall be provided and installed by the Electrical Contractor including site and service electric if applicable.
12. Provide painting for "touch up" required to restore "factory finished" equipment and material to its original condition.
13. Provide temporary power and lighting as indicated in specification section 01510 Temporary Facilities and Controls.

PROJECT REQUIREMENTS

1. Provide all electrical work including testing, conduit, wiring and cable, boxes, wiring devices, enclosures, equipment final connections, support devices, identification, switchboards, disconnect switches, primary and secondary grounding, panel boards, motor controls, lighting fixtures, detention equipment security systems, emergency power and lighting, fire alarm and smoke detection, final HVAC electrical, fire protection electrical and plumbing electrical connections, hangers, supports unless specifically designated to be by the General Contractor, blocking, wall sleeves, flashing, etc. as shown and/or specified.
2. Provide equipment and wiring necessary for installation of the following systems:
 - A. Fire Alarm System
 - B. Lighting Controls, etc.
 - C. Generator
 - D. Video Surveillance System
 - E. Security Access Control System
 - F. Control Systems for Security
 - G. Watch Tour System
 - H. CATV Distribution System
 - I. Intercom and Paging System
 - J. Computer Structured Cabling
3. Provide equipment and wiring necessary for interfacing with the following systems:
 - A. HVAC Equipment
 - B. Temperature Control
 - C. Plumbing Equipment
 - D. Fire Protection Equipment
 - E. Elevator Equipment
 - F. Sewerage Ejector
 - G. Packaged Utility Wastewater Pumping Station
 - H. Sanitary Wet well and Valve Meter Chamber
 - I. Sump Pumps
 - J. Electrically operated overhead doors and grills
 - K. Door operators
 - L. Kitchen Equipment
 - M. Laundry Equipment
 - N. Loading dock equipment

4. It is the intent of the Contract for the Electrical Contractor to provide complete electrical systems for all systems above including conduit, wire, fiber optics, patch panels, connectors, terminations, patch controls, jacks, UTP cabling, testing, equipment, brackets, hardware, layout, check out, training, etc.
5. Coordinate electrical requirements with the General Contractors Precast Concrete Cell Subcontractor to ensure a complete electrical system to make all electrical components completely operational.
6. Provide identification of equipment as required.
7. Electrical Contractor to provide all saw cutting, excavation, and backfill, including work for new incoming electrical service, etc. as necessary to install the work of the Electrical Contract. Patching of sitework areas and surface restoration will be by the Sitework Contractor.
8. Provide fire rated backboards for electrical and telephone equipment as shown or specified.
9. Provide food service interconnect wiring as per the Contract Documents.
10. Provide cast-in-place or precast vaults, handholes, etc. required for electrical service. Provide all associated excavation and backfill including any shoring that may be required.
11. Provide any housekeeping and equipment pads required for equipment (interior or exterior) that are required for the work of this Contract.
12. Furnish any embeds required to be cast in concrete or masonry to the appropriate Prime Contractor.
13. As per drawing E002 pole-mounted light fixtures and bases shall be provided by the Sitework Contractor. The Electrical Contractor shall provide conduit and wire for this work. The Electrical Contractor shall provide trenching and backfilling for Electrical Contractor's work.

14. Provide concrete for encasement of conduit, etc. as required for work by this contract. Provide warning tape as required. Provide rebar reinforcement as shown on Contract Documents.
15. Provide firesafing at all locations that are required to maintain a fire rating at floor and wall penetrations made as a result of the work of this Contract.
16. Provide any access panels, which are required for access to the work of this Contract but not shown on the Architectural Drawings. Coordinate openings with General Contractor. Provide under floor boxes as shown or specified.
17. Provide power wiring to all fire protection, HVAC, electrical, plumbing equipment, etc. as required or shown.
18. Verify existing services prior to start of work and notify the Construction Manager of any discrepancies.
19. Furnish and install all fused disconnect switches and fuses.
20. Refer to drawings and specifications for motor starters and disconnects.
21. VFD's will be provided by the Contractor providing the equipment.
22. The Electrical Contractor shall furnish and install the conduit and wire for all systems using 120 Volts A.C. and above.
23. Provide testing and documentation of test results for electrical and telecommunications systems as per the Contract Documents.
24. Provide ductbank complete with excavation and backfill, concrete, conduit, warning tape and manholes.
25. Final grading and surface restoration shall be provided by the Sitework Contractor. Coordinate all planned electrical sitework with the Sitework Contractor prior to installation of asphalt and concrete paving so that new asphalt and concrete paving will

not have to be patched.

26. Furnish and wire duct smoke detectors. Installation shall be by HVAC Contractor.
27. Emergency generator fuel oil shall be provided by the Electrical Contractor. A full tank shall be provided at final turnover to the County.
28. Electrical Contractor shall provide conduit and back boxes, surface metal raceway, pull strings, sleeves to communication closets, and device boxes as required for installation of all communication systems as per the Contract Documents.
29. Electrical Contractor to provide and install telephone and data cables for connection to the fire alarm panel, security panel, ATC panels, etc. As per the Contract Documents.
30. Electrical Contractor to coordinate and Owner shall pay any cost incurred by the telephone company to provide service as per the site plan and building telephone installation as per the Contract Documents.
31. Electrical Contractor to coordinate and Owner shall pay any cost incurred by the Cable TV Company to provide service as per site plan and building TV installation as per the Contract Documents.
32. Provide new incoming electrical service. Coordinate installation with utility company. Electrical Contractor shall pay any cost incurred by Electric Utility Company to provide service as per the site plan and Contract Documents. Electrical Contractor shall provide an allowance of \$50,000 for Electrical Utility Company fees within the Electrical Contractor's base bid.
33. Electrical Contractor shall provide fire alarm wiring to fire sprinkler flow and tamper switches as required.
34. Coordinate with HVAC Contractor for electrical hook-up of HVAC equipment in order to complete all construction-phasing requirements.

END OF SECTION