

ARTICLE 10: PROJECT SPECIFICATIONS

SPECIFICATIONS
DIVISION 01 - GENERAL REQUIREMENTS
SECTION 01010
SUMMARY OF WORK

PART 1 – GENERAL

1.1 STIPULATIONS

A. Related Documents

1. The "General Conditions for Construction Projects" form a part of this specification section by reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 SCOPE OF WORK

A. The scope of work for this project covers the supplying of all the labor, materials, scaffolding, ladders, tools, equipment and appurtenances to remove and properly dispose of all existing suspended acoustical panel ceiling system components, including all ceiling mounted lighting fixtures, smoke detectors, illuminated emergency exit signage located within the first floor Ward A1 and C1 corridors. Installation of a new pre-engineered fire rated suspended drywall grid system, 8 feet above finished floor, including new 5/8 inch type XP hi-abuse drywall ceiling finish, new recessed lighting fixtures, new smoke heads, illuminated emergency exit signage and fire rated access panels. Installation of a new pre-engineered secure lock metal panel suspended ceiling system adjacent to existing smoke partitions for easy access to existing smoke dampers and HVAC equipment located above the ceiling. See contract limits and construction notes as indicated on Drawing A-1 of 1. The work shall include, but is not limited to, the following:

1. Furnish and install critical barriers to separate any penetrations to the work area from the occupied space. No visible emission during demolition and construction beyond contract limits is allowed.
2. Furnish and install a new pre-engineered fire rated suspended drywall flat grid system, DFR 8000, by Armstrong World Industries, Inc. or approved equal to replace corridor ceilings removed. New drywall grid/framing system shall be designed and installed in strict accordance with the manufacturer's product specifications. Coordinate all components and framing members for ceiling rough openings required for installation of new recessed light fixtures, access panels and transitions.
3. Furnish and install new 5/8 inch thick hi-abuse type XP gypsum boards for new ceiling finished attached to new suspended drywall grid/framing system.

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4. Furnish and install a new Metalworks SecureLock lay-in suspended ceiling system by Armstrong World Industries, Inc. or approved equal at locations as indicated on Drawing A-1 of 1. New metal SecureLock suspended ceiling system shall be tamper resistant and include 2 feet by 2 feet 18 gauge galvanized steel panels un-perforated in white with concealed locking.
5. Furnish and install new fire rated ceiling access panels beneath all HVAC equipment that requires service. Determine specific locations and sizes for access panels required to gain adequate access to equipment above new ceiling system; coordinate all access panel installations with the Facility.
6. Furnish and install new illuminated emergency exit signage to replace all ceiling mounted emergency exit sign signage at the same locations within the contract area. Provide new wall mounted illuminated emergency exit signs in lieu of ceiling mounted at corridor ends. Provide all electrical hardware and final wiring required for installation.
7. Furnish and install new ceiling recessed 12 inch by 48 inch fluorescent lighting fixtures with two 32 watt T8 lamps to replace all removed surface mounted light fixtures at the same locations. Provide all electrical hardware and final wiring required for installation. Relocate and replace all existing light fixtures currently located within the new suspended SecureLock ceiling system areas adjacent to existing smoke partition walls to avoid conflict with access to equipment above ceiling.
8. The Contractor, in conjunction with the Facility's fire alarm vendor, Simplex Grinnell, shall be responsible for proper interfacing and programming of all existing and new smoke detectors located with the contract limits. Furnish and install new addressable smoke detectors compatible with existing systems to replace existing smoke detectors, at the same locations, by the alarm service company to comply with all applicable NFPA code provisions. All related wiring modifications and electrical hardware required for installation of new smoke detectors shall be included in this project. The Contractor shall contact the fire alarm service company to obtain approval, directive and services rendered for interfacing existing and new smoke detectors and pay costs associated for services provided. The Contractor shall be responsible for providing services of the fire alarm service company as required throughout the entire duration of construction and for providing the proper safeguards for existing and new smoke detectors.
9. Provide all labor and hardware to properly support all unsupported electrical wiring and communication wiring located above existing suspended ceiling system in accordance with the National Electrical Code latest edition.

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1.3 PROJECT DRAWINGS

The following drawing(s) forms a part of the contract documents:

A-1 – Corridor Ceiling Replacement Plan and Notes

1.4 DATES OF COMPLETION

No work shall commence until the Contractor receives a fully executed contract. All work under this contract shall be completed within **60 calendar days** from the effective date of the contract. Requests for extension of time shall be submitted in accordance with the General Conditions for Construction Projects.

1.5 VISIT TO SITE

It is mandatory that the Contractor shall visit the site prior to bidding and carefully note all existing conditions. Any additions or items noted on his visit, not clearly defined in the specifications or on the drawings, shall be brought to the attention of the Project Designer. All visits shall be made only after contacting the Facility Maintenance Manager, Mr. Joseph Mack, at (610) 313-5465. All prospective bidders shall sign the attached Proof of Visit form. **One signed copy of the Proof of Visit form shall be returned with the bid or your bid will be rejected.**

1.6 CLARIFICATION OF CONTRACT DOCUMENTS

A. Any request for project clarification of technical drawings or specifications shall be directed to the Project Designer:

Department of Public Welfare
Division of Facilities and Property Management
P.O. Box 2675, Harrisburg, PA 17105-2675
Attention: Christopher J. Clouser, Arch. Designer
Telephone: (717) 772-0890, Fax: (717) 772-2091

B. Any request for project clarification of financial or contract language shall be directed to the Contract Officer/Project Officer:

Norristown State Hospital
1001 East Sterigere Street
Norristown, PA 19401
Attention: Mr. Ron Cropper
Telephone: (610) 313-5434, Fax: (610) 313-1013

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- C. Any request for project clarification of contract language or general conditions shall be directed to:

Department of Public Welfare
Division of Facilities and Property Management
P.O. Box 2675, Harrisburg, PA 17105-2675
Attention: Mr. Greg Kratzer
Telephone: (717) 425-5454, Fax: (717) 772-2091

END OF SECTION

SECTION 01025
EXPLANATION OF UNIT PRICES

PART 1 - GENERAL

1.1. STIPULATIONS

- A. The "General Conditions for Construction Projects" form a part of this section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 PROCEDURES

- A. Unit prices will be used as the basis for computing "additions to" or "deductions from" the contract price for extra work and for work countermanded, reduced or omitted. The unit price does not affect the Lump Sum Bid's total cost but may be the basis of changes used to adjust the contract costs.
- B. The unit prices, when accepted, adjusted or established by the contract, shall remain binding and irrevocable for the entire period of the contract.
- C. The acceptance of a unit price is on condition that the general character of the material and workmanship required for any work related thereto shall be equivalent to corresponding work as shown and specified, and that all costs, overhead and profit, as well as all incidental work required in connection therewith, have been included in the unit price.
- D. Each bidder shall carefully check the drawings and specifications for base bid quantities required under the contract.
- E. Follow the Instructions to Bidders and the requirements for completion of the Bid Proposal form.
- F. The Department will not be bound by the unit prices unless it accepts the same, in writing, before it issues a Notice of Award of the contract. The Department may award the contract without accepting the bidder's inserted unit prices. If, after such award the parties cannot agree, the Department may, at its discretion, direct the Contractor to perform such work on a force account basis.

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1.3 UNIT PRICES

ITEM NO.	DESCRIPTION	UNIT OF MEASUREMENT	UNIT PRICE ADD/DEDUCT
1	Furnish and install new 24 inch by 24 inch fire rated ceiling access panels within new suspended drywall ceiling system at the direction of the Facility staff.	Ea.	\$

END OF SECTION

SECTION 01030
EXPLANATION OF BASE BIDS

PART 1 - GENERAL

1.1 STIPULATIONS

A. Related Documents

1. The "General Conditions for Construction Projects" form a part of this specification section by reference thereto and shall have the same force and effect as if printed herewith in full.
2. It is the intention of the Department of Public Welfare to have all of the work, or as much of the work as possible, completed as shown on the drawing(s) and indicated in the specifications within the project budget allocation.

1.2 BASE BID No. 1

Base Bid No. 1 shall include the complete work as described in the scope of work as per specification and shown on the drawing. To inspect, quantify, remove and replace all existing suspended acoustical panel ceiling systems with a new suspended drywall ceiling system located within Ward C1 and A1 corridors. Installation of a new suspended metal secure lock ceiling system with 2'x2' galvanized steel panels and concealed locking adjacent to existing smoke partitions. New work shall include replacement of existing ceiling mounted lighting fixtures, smoke detectors, ceiling mounted illuminated emergency exit signage but not necessarily limited to providing all appurtenances necessary to accomplish the scope of work required. See Drawing A-1 of 1 for limit of work.

1.3 BASE BID No. 2

Base Bid No. 2 shall include the complete work as described in Base Bid No. 1 and in the scope of work as per specification and shown on the drawing except delete all work for the patient bedroom wing corridor located within Ward A1 from the scope of project work. (See Project Key Plan Base Bid Plan on Drawing A-1 of 1).

1.4 BASE BID No. 3

Base Bid No. 3 shall include the complete work as described in Base Bid No. 1 and in the scope of work as per specification and shown on the drawing except delete all work located at Ward A1 from the scope of project work. (See Project Key Plan Base Bid Plan on Drawing A-1 of 1).

END OF SECTION

SECTION 10310
SEQUENCE OF CONSTRUCTION AND MILESTONES

PART 1 - GENERAL

1.1 STIPULATIONS

The "General Conditions for Construction Projects" form a part of this specification section by reference thereto and shall have the same force and effect as if printed herewith in full.

Before beginning work, the Contractor shall prepare a critical path schedule in consultation with the Facility. The work shall then be carried out in full accordance with the schedule and milestones. The Contractor shall arrange work without any unnecessary interference with the Facility's operation. The building will be occupied for the duration of this project. The contractor must coordinate the demolition and installation phases with the Facility and obtain their approval before the start of the project. Only one ward work area shall be vacated and surrendered to the contractor at a time. The Contractor must fully complete all work, including punch list items, within one ward corridor work area before starting work within the other ward project area. For Base Bid No. 1, the Facility staff shall be afforded a minimum of seven working days to relocate the patients and ward contents, from one ward work area to newly completed ward work area, prior to the contractor starting work in the other ward.

1.2 CRITICAL MATERIALS AND EQUIPMENT

The Contractor is cautioned that all necessary and required critical materials and equipment shall be ordered as quickly as possible so that the shipping will not delay the progress of the work.

1.3 CRITICAL ITEMS TO BE NOTED AS MILESTONES

The Contractor shall schedule the following critical items as Project Milestones with the completion dates. These dates shall be the basis of payments to the Contractor.

- A. 60% of the project work completed = 50% payment
- B. 100% of the project work completed (including punch list items) = 100% final payment.
- C. Payment is subject to the provisions of the General Conditions and approval by the Facility.

END OF SECTION

SECTION 01115
DPW – SUPPLEMENTAL PROVISIONS

PART 1 – GENERAL

1.1 STIPULATIONS

- A. The Specifications Sections "General Conditions of Contract" and "General Requirements" form a part of this Section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 PERSONAL BEHAVIOR

- A. Contractors are responsible for disseminating to their employees the special restrictions on personal behavior and the procedures/potential penalties for violations.
- B. Identification tags or badges to be furnished by the Facility must be worn at all times while on Facility property.
- C. Smoking is not permitted in any Facility building.

1.3 VEHICLES

- A. Construction vehicles and employees' vehicles will be parked in an area designated by the Department and locked at all times. The license numbers of vehicles to be left overnight will be reported to the security office at the Facility on a daily basis by the Contractors.
- B. Vehicles may not be operated or parked on any lawn areas unless otherwise permitted.

1.4 TOOLS

- A. Tools shall be kept in a secure (locked) area when not in use and inventoried to insure complete and total accountability at the end of each shift. While being used, tools shall be kept in view or on person. Broken or non-usable tools are to be disposed of away from the Facility property. Any missing tools are to be reported promptly to the Facility

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Maintenance Manager. Particular attention should be paid to tools which may be used as weapons or instruments of escape. Special procedures will be developed with the Facility's Maintenance/Engineering Department concerning cutting pliers, bolt cutters, hacksaws and welding or cutting equipment. UNDER NO CIRCUMSTANCES WILL CUTTING TORCHES OR WELDING EQUIPMENT BE LEFT INSIDE THE PERIMETER SECURITY ENCLOSURE (at facilities with enclosures) OVERNIGHT, ON WEEKENDS OR ON HOLIDAYS.

- B. No ladders may be left upright and accessible to residents. If not in use, ladders must be taken down and secured. Scaffolding must be secured to guard against unauthorized use.

1.5 WORK AREAS

- A. All work areas are to be kept safe and orderly at all times.
- B. All doors are to be kept locked to ensure resident safety. Doors normally unlocked are excluded unless safety becomes an issue.
- C. Passenger elevators are not to be used to transport materials unless written authorization is given specifying dates and times when it is permissible.
- D. Flammable liquids are not to be stored inside occupied buildings.
- E. Do not compromise Life Safety Code requirements without prior written consent of the Facility's Safety Manager who will develop and implement alternate plans.
- F. Facility supplies are not to be utilized by contractors unless called for in the project specifications.
- G. Contractors are to be aware of the locations of fire alarms, fire extinguishers and related equipment. The Facility Fire Marshal is available to instruct the contractors in the proper operation of fire safety equipment.

1.6 FRATERNIZATION

- A. There shall be no fraternization or private relationships of contractors' employees with residents. This includes, but is not limited to, trading, bartering or receiving gifts, money or favors from the residents or the residents' friends, relatives or representatives.

1.7 ALCOHOL AND CONTROLLED SUBSTANCES

- A. Alcoholic beverages and controlled substances shall not be carried, stored or consumed on Facility property nor left in any vehicle.

1.8 GAMBLING

- A. Gambling or wagering of any type is not permitted on Facility property.

1.9 WEAPONS OR IMPLEMENTS FOR ESCAPE

- A. Weapons or implements of escape shall not be permitted on Facility property. Non-compliance with this policy may result in criminal charges.
- B. Offense Defined - A person commits a second degree felony if that person unlawfully introduces within a Youth Development Center or MH/MR Facility or unlawfully provides a resident thereof with any weapon, tool, implement or other item which may be used for escape.

C. Definitions:

- 1. As used in this section, the word "unlawfully" means surreptitiously or contrary to law, regulation or order of the detaining authority.

2. As used in this section, the word "weapon" means any implement readily capable of lethal use and shall include any firearm, knife, dagger, razor, other cutting or stabbing implement or club including any item which has been modified or adapted so that it can be used as a firearm, knife, dagger, razor, other cutting or stabbing implement or club. The word "firearm" includes any unloaded firearm and the unassembled components of a firearm.

1.10 CONTRABAND

- A. Contraband shall not be permitted on Facility property. Non-compliance with this policy may result in criminal charges.
- B. Contraband to confined persons is prohibited. A person commits a misdemeanor of the first degree if that person sells, gives or furnishes to any resident in a Mental Health Facility, or gives away or brings into any Mental Health Facility or any building appurtenant thereto, or on the land granted to or owned or leased by the Commonwealth for the use and benefit of the residents, or puts in a place where it may be secured by a resident or employee thereof, any kind of spirituous or fermented liquor, drug, medicine, poison, opium, morphine or other kind of narcotics (except the ordinary hospital supply) without a written permit signed by a physician of such Facility, specifying the quantity and quality of the liquor or narcotic which may be furnished to any resident or employee; the name of the resident or employee for whom it is prescribed and the time when the same may be furnished, which permit shall be delivered to and kept by the superintendent of the Facility.
- C. Money to residents is prohibited. A person commits a misdemeanor of the third degree if that person gives or furnishes money to any resident of a Youth Development Center or MH/MR Facility, PROVIDED NOTICE OF THIS PROHIBITION IS ADEQUATELY POSTED AT THE FACILITY. A person may, however, deposit money with the superintendent, or other authorized individual of the Facility, for the benefit and use of a resident confined therein which shall be credited to the resident's account and expended in accordance with the rules and regulations of the Facility. The person making the deposit shall be provided with a written receipt for the amount deposited.

1.11 SEARCH

- A. Any person entering this Facility is subject to a search of his or her person at any time. While the person may refuse, such refusal may be cause for denial of further entrance.

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1.12 ORIENTATION PROGRAM

- A. All contractors are required to meet with the Facility Maintenance Manager and Facility Safety Manager to review security requirements before beginning any site work.

END OF SECTION

SECTION 01340
SUBMITTALS

1.1 GENERAL

Included in this section of the specifications is a list of submittals of materials to be incorporated into the work required by the Department for approval. The Department reserves the right to require additional submittals for approval as it deems necessary. No material or equipment listed herein shall be incorporated into the work until the Contractor has obtained approval from the Department.

1.2 SUBMITTAL PROCEDURES

- A. The project number shall be indicated on the transmitted letter of the material submitted for approval. Four copies minimum for each submittal, one of which should be the original.
- B. The Contractor shall signify his approval of the submitted material by stamping, initialing and dating the transmittal letter submitted to the Department for approval.
- C. The Contractor's failure to comply with the submittal procedures set forth herein will result in the return of the material for proper re-submittal.
- D. The submittal items listed below shall be delivered or mailed to:

Department of Public Welfare
Division of Facilities and Property Management
1401 North 7th Street, P.O. Box 2675
Harrisburg, PA 17105-2675
Attention: Christopher Clouser, Arch. Designer
Phone: (717) 772-0890

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1.3 SUBMITTAL LIST

SOSU - Source of Supply
DEDA - Descriptive Data or Catalog Cuts
SHDR - Shop Drawings

SAMP - Samples
TESTS - Laboratory Testing Data
CERT - Certification

DESCRIPTION OF ITEMS TO BE SUBMITTED	SOSU	DEDA	SHDR	SAMP	TESTS	CERT
Suspended Fire Rated Drywall Ceiling Grid Framing System including 1½" grid face and wall moldings	X	X	X		X	
Suspended Acoustical Fire Rated (Metalworks) Secure Lock Metal Panel Ceiling System	X	X	X		X	
5/8 inch thick, Hi-abuse Type XP Drywall Ceiling Finish including finishing compounds and edge beads	X	X				
Fire Rated Ceiling Access Panels	X	X				
New Smoke Detectors	X	X				
New 12" x 48" Recessed Fluorescent Lighting Fixtures	X	X				
New Illuminated Emergency Exit Signs	X	X				
Project Schedule		X				

END OF SECTION

SECTION 02225
SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 STIPULATIONS

- A. Applicable requirements of the General Terms and Conditions are a part of this specification and shall have the same force and effect as if printed herewith in full.

1.2 WORK INCLUDED

- A. The work covered by this section consists of furnishing all labor, equipment and appliances necessary to complete all site preparation and demolition required for the project in strict accordance with this section of the specifications and the drawings.
 - 1. Removal and disposal of existing suspended acoustical panel ceiling systems including ceiling mounted lighting fixtures, smoke detectors and ceiling mounted illuminated emergency exit signs.
 - 2. All items related to demolition specified herein as shown on the drawings or required to properly prepare the building shall be done to receive the new suspended ceiling systems as required.

1.3 SCHEDULING DEMOLITION

- A. All demolition removal work must be done at times agreed upon by the representative of the Facility.
- B. Once commenced, work shall proceed as scheduled in an efficient, quiet operation without delays or interruptions.
- C. The Contractor shall coordinate all work with the Facility.

1.4 JOB CONDITIONS

- A. Once commenced, work shall proceed as scheduled in an efficient, quiet operation without delays or interruptions.
- B. Condition of Structures: Conditions existing at the time of the inspection for the bidding purposes will be maintained by the owner as practicable.

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- C. Partial Removal: Items of salvageable value to the Contractor may be removed from the structures as work progresses. Salvaged items must be transported from the site as they are removed.
- D. Storage or sale of removed items on the site will not be permitted.
- E. Hazardous Materials: The use of hazardous materials or methods on site will not be permitted.
- F. Traffic: Conduct the demolition operations and the removal of debris to ensure minimum interference with roads, streets, walks and other adjacent occupied or used facilities.
- G. Do not close or obstruct streets, walks or other occupied or used facilities without permission from the Facility. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations. Install construction barricades around the demolition areas to control pedestrian access during demolition phases.
- H. Protections: Ensure safe passage of persons around the area of demolition. Conduct operations to prevent injury to the adjacent buildings, structures, adjacent finishes surfaces, other facilities and persons. Protect HVAC duct work and equipment located above ceiling surfaces.
- I. Damages: Promptly repair damages caused to the adjacent grounds and buildings by demolition operations at no cost to the Facility and to the Facility's acceptance.
- J. Refer to the General Conditions of the Construction Contract for stipulations regarding provisions for protection of the site, equipment and tools, shoring and bracing, and other provisions regarding the protection of the property and life.
- K. Drawings are diagrammatic in nature and require field verification for actual conditions, quantities and details. Failure to inspect actual field conditions and dimensions prior to preparation of the bid shall not be justification to a claim for additional costs.
- L. Cutting and removals indicated on the drawings are only a general indication and do not necessarily show the full extent of cutting and removals which may be required by job conditions including penetrations.

PART 2 - PRODUCTS

2.1 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove the materials from the ceiling to a truck or a commercial dumpster furnished by the Contractor. Under no circumstances will debris of any type be left on the floor or grounds at the end of a working day.
- B. General: Remove all debris, rubbish and other materials resulting from demolition operations from the building by means of carts, closed chute or other approved means agreed to by the Facility. Caution shall be taken handling the material which should not be abraded, thrown, tossed or handled in a manner which creates dust.
- C. The on-site burning of materials removed from demolition will not be permitted.
- D. Transport materials removed from the demolition and arrange for proper disposal off-site. Leave the site in a neat and orderly condition meeting the approval of the Department and the Facility.
- E. All costs and fees for proper approved disposal shall be paid for by the Contractor.

PART 3 - EXECUTION

3.1 PRECAUTIONS

- A. Perform the work in a manner to prevent damage or injury to property or the public. Provide barriers, warning lights and other protection as required and protect as necessary any existing monuments, benchmarks or utilities that are to remain in service. Restore any damage to original condition or repair as directed at no additional cost to the Commonwealth.
- B. Before starting the work, install critical barriers to separate any penetrations to the work area from the occupied spaces and adjacent rooms off of corridor. No visible emissions during removal and clean-up beyond work area is allowed.

- C. Remove existing ceiling components carefully as designated on drawings in a manner designed to prevent undue airborne material from interfering with pedestrian safety and adjacent electrical service equipment. Protect adjacent construction and clean the same upon completion. Under no circumstances will debris of any type be left on the grounds or corridor floor at the end of each working day.
- D. All ladders, lifting devices, and equipment used in conjunction to perform scope of work must not be left unattended. Any ladders, lifting devices and equipment not in use during the duration of the project shall be promptly removed from the site and safeguarded at approved staging area.
- E. The Contractor shall be responsible to ensure that the existing surveillance camera system is not disturbed or damaged during all demolition work and new ceiling installation. Any damages to cameras or supportive cabling will be repaired at no cost to the Facility.

3.2 DISPOSITION OF UTILITIES

- A. Make all necessary arrangements and coordinate the relocating of active utilities in the way of new work that must be moved and for shutting off and disconnecting utilities.
- B. Existing services and equipment, including any piping and/or devices encountered that are not required to be removed, shall be temporarily supported and maintained until permanent support has been restored.

3.3 DUST CONTROL

Control the amount of dust and dirt resulting from demolition to prevent the spread of dust and other airborne particles. Coordinate shutdown of the HVAC and air handling units to eliminate dust and fume intake into the building; shutdown times must be agreed upon with the Facility Maintenance Manger.

3.4 PROHIBITIONS

- A. The use of burning or burial at the project site for disposal of refuse and debris is not permitted.
- B. All trucks and dumpsters must be secured from access by Facility residents after hours by use of a tarp cover.

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3.5 SALVAGE

Unless otherwise noted or directed, materials resulting from demolition operations shall be the property of the Contractor, shall not be used in the work and shall be promptly removed from the site.

3.6 CLEAN-UP

- A. Debris and Rubbish: Remove debris and rubbish from the site daily. Do not allow to accumulate on the site.

- B. Debris Control: Remove and transport debris in a manner as to prevent spillage on streets or adjacent areas. Use covered trucks where required.
 - 1. Any area, either temporary or permanent, over which hauling operations or other moving operations are conducted, shall be kept clean and any debris shall be removed promptly by the Contractor.

 - 2. Streets, walks and drives adjacent to the areas of construction shall be kept clean and clear of obstructions at all times; they shall be kept clear of materials and debris to their full width and shall be maintained in such a manner as to permit safe and normal use.

- C. Regulations: Comply with local and state regulations regarding hauling and disposal of construction debris.

END OF SECTION

3.6 CLEAN-UP

- A. Debris and Rubbish: Remove debris and rubbish from the site daily. Do not allow to accumulate on the site.

- B. Debris Control: Remove and transport debris in a manner as to prevent spillage on streets or adjacent areas. Use covered trucks where required.
 - 1. Any area, either temporary or permanent, over which hauling operations or other moving operations are conducted, shall be kept clean and any debris shall be removed promptly by the Contractor.

 - 2. Streets, walks and drives adjacent to the areas of construction shall be kept clean and clear of obstructions at all times; they shall be kept clear of materials and debris to their full width and shall be maintained in such a manner as to permit safe and normal use.

- C. Regulations: Comply with local and state regulations regarding hauling and disposal of construction debris.

END OF SECTION

SECTION 08310
ACCESS PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the contract, including supplementary conditions and Division 1 specification sections, apply to this section.

1.2 SUMMARY

A. Section includes access panels for the following types of installations:

1. Fire Rated access panels for ceilings.

1.3 REFERENCES

A. Fire rated units for ceilings shall bear the one-hour combustible construction, three-hour noncombustible construction label.

1.4 SUBMITTALS

A. General: In accordance with conditions of Division 1 specifications.

1. Shop drawings.
2. Manufacturer's literature and data.

1.5 QUALITY ASSURANCE

- A. Provide all access panels for the project by the same source and the same manufacturer.
- B. Fire rated door assemblies that comply with NFPA 80 and are labeled by Underwriters Laboratories or other testing facilities acceptable to authorities having jurisdiction.
- C. Obtain design facilities approval of sizes that may vary slightly from those indicated when they are not in accordance with manufacturer's standards.

1.6 COORDINATION

A. Determine specific locations and sizes for access panels needed to gain access to all concealed equipment located within the contract limits.

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1.7 DELIVERY, STORAGE AND HANDLING

- A. Package and ship in accordance with manufacturer's recommendations.
- B. Store in compliance with manufacturer's instructions.
- C. Store in dry area out of direct sunlight.

PART 2 - PRODUCTS

2.1 MANUFACTURER(S)

- A. Cierra Products, Distributed by AmeraProducts Company, P.O. Box 5665, Beaumont, Texas 77726-5665, 1-800-608-6568, Phone: (409) 842-2267 or approved equal.

2.2 MATERIALS

- A. Galvanized bonderized steel with baked on rust inhibitive gray primer.

2.3 ACCESS PANELS

- A. Insulated fire rated access panels for ceilings, Cierra C-I series or approved equal.
 - 1. Door: Fabricate from 20-gauge cold rolled sheet steel, insulated sandwich type construction.
 - 2. Frame: Fabricate from 16-gauge cold rolled steel of configuration to suit material application.
 - 3. Hinge: Plush continuous piano type.
 - 4. Latching/Locking mechanism: Knurled knob/flush key operated latch bolt - standard.
 - 5. Finish: Phosphate dipped with factory applied prime coat.

2.4 FABRICATION

- A. Manufacture each access panel assembly as an integral unit ready for installation.
- B. Welded construction: Furnish with a sufficient quantity of mounting holes to secure access panels to types of supports indicated.

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- C. Recessed panel: Form face of panel to provide specified recess for application of finish material. Reinforce panel as required to prevent buckling.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify conditions are ideal for suitable installation.

3.2 PREPARATION

- A. Advise installers of work relating to access panel installation including rough opening dimensions, locations of supports and anchoring methods. Coordinate delivery with other work to avoid delay.

3.3 INSTALLATION

- A. Follow manufacturer's instructions for installing access panels.
- B. Set frames to proper alignment with the ceiling.
- C. Position access panels for proper access to concealed equipment requiring access.

3.4 ADJUST AND CLEAN

- A. Adjust panel after installation for proper operation.
- B. Remove and replace panels or frames that are warped, bowed or damaged.

END OF SECTION

SECTION 09120
METAL SUSPENSION SYSTEMS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

Drawings and general conditions of the contract, including General and Supplementary Conditions and Divisions 1 specification sections, apply to work of this section.

1.2 SUMMARY

A. Section Includes:

1. Suspension System Framing and Furring for Plaster and Gypsum Board Assemblies
2. Wire hangers, fasteners, main runners, cross tees and wall angle moldings.

B. Related Sections:

1. Section 09290 - Gypsum Board

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
2. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
3. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
4. ASTM D 610 Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces.
5. ASTM B 117 Standard Practice for Operating Salt Spray (Fog) Apparatus.
6. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
7. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

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8. ASTM C 645 Standard Specification for Nonstructural Steel Framing Members.
9. ASTM C 754 Installation of Steel Framing Members to Receive Screw-Attached Gypsum Board.
10. ASTM C1002 Standard Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases.
11. ASTM E 119 Standard Test Method for Fire Tests of Building Construction and Material (if applicable).

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's technical literature.
- B. Certifications: Manufacturer's certifications that products comply with specified requirements including laboratory reports showing compliance with specified tests and standards.

1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: To ensure proper interface, all drywall furring components shall be produced or supplied by a single manufacturer.
- B. All accessory components from other manufacturers shall conform to ASTM standards.
- C. Fire Resistance Ratings: As indicated by reference to design designations in UL Fire Resistance Directory for types of assemblies in which drywall ceilings function as a fire protective membrane and tested per ASTM E 119. Installation in accordance with the UL Design being referenced.
- D. Coordination of Work:
 1. Coordinate drywall furring work with installers of related work including, but not limited to, acoustical ceilings, building insulation, gypsum board, light fixtures, mechanical systems, electrical systems and sprinklers.
 2. All work above the ceiling line should be completed prior to installing the drywall sheet goods. There should be no materials resting against or wrapped around the suspension system, hanger wires or ties.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination and other causes.

1.7 WARRANTY

- A. Suspensions System: Submit a written limited warranty, executed by the manufacturer, agreeing to repair or replace grid components that are supplied with a hot-dipped galvanized coating or aluminum base material. Failures include, but are not limited to, the occurrence of 50% red rust as defined by ASTM D 610 test procedures as a result of defects in materials or factory workmanship.
- B. Warranty Period:
- Grid: Ten years from date of installation.
- C. The warranty shall not deprive the Commonwealth of other rights the Commonwealth may have under other provisions of the contract documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the contract documents.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

Suspension Systems: Armstrong World Industries, Inc. or approved equal.

2.2 SUSPENSION SYSTEMS

A. Components:

1. Main Beam: Shall be double-web construction (minimum 0.0179 inch prior to protective coating), hot dipped galvanized (per ASTM A653).
 - a. HD8901: 1 1/2 inch web height, prefinished 15/16 inch flange with minimum G40 hot dipped galvanization.
2. Primary Cross Tees: Shall be double-web steel construction (minimum 0.0179 inch prior to protective coating), hot dipped galvanized (minimum G40 or G90 per ASTM A653), web height 1 1/2 inch with rectangular bulb and pre-finished 1 1/2 inch knurled flange (XL8945P, XL8965, XL8947P).
3. Secondary Framing Cross Tees: Shall be double web steel construction (minimum 0.0179 inch prior to protective coating), hot dipped galvanized (minimum G40, web height 1 1/2 inch rectangular bulb and 15/16 inch flange (XL8341).

4. Wall Molding:

- a. LAM-12, 12 foot Locking Angle Molding, 1 1/4 inch x 1 1/4 inch with pre-engineered locking tabs punched 8 inches on center, knurled surface, screw stop hem, pre-punched holes in top flange.

5. Clips:

- a. MBAC - Main Beam Adapter Clip
- b. DWACS, DW50, DW58 - Drywall Attachment Clip for transitions to acoustical ceilings.
- c. Drywall Angle Clips - Available in 30 degree, 45 degree, 60 degree and 90 degree angles.
- d. XTAC - Cross Tee Adapter Clip.
- e. Radius Clip (RC2) - Required to cover all pre-cut facets including those not being clipped.

6. Screws for wallboard application shall be bugle head screws in accordance with thickness of material used.

B. Structural Classification:

1. Main beam shall be heavy duty per ASTM C 635.
2. Deflection of fastening suspension system supporting light fixtures, ceiling grilles, access doors, verticals and horizontal loads shall have a maximum deflection of 1/360 of the span.

PART 3 – EXECUTION

3.1 INSTALLATION – GENERAL

- A. Install suspension system and panels, in accordance with the manufacturer's instructions, in compliance with ASTM installation standard, and with applicable codes as required by the authorities having jurisdiction.
- B. To secure to metal clips, concrete inserts, steel bar joist or steel deck, use power actuated fastener or insert. Coordinate placement for hanger wire spaced as required for expected ceiling loads and layout.

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- C. Install hanger wire as required with necessary on center spacing to support expected ceiling load requirements, following local practices, codes and regulations. Provide additional wires at light fixtures, grilles and access doors where necessary. A pigtail knot shall be used with three tight wraps at top and bottom fastening locations.
- D. Add additional wire as needed when using compatible clips and accessories.
- E. Control Joints: Roll formed zinc alloy, aluminum or plastic, as required for expansion and contraction, if deemed necessary by the manufacturer.
- F. Expansion Joints: Roll formed zinc alloy, aluminum, or plastic, as required for expansion and contraction, if deemed necessary by the manufacturer.
- G. Main beams shall be suspended from the overhead construction with hanger wire, spaced as required for expected ceiling loads, along the length of the main beams.
- H. Install cross tees at on center spacing as specified by the drywall manufacturer. Typical drywall cross tee spacing:
 - 1. 24 inches on center with 5/8 inch gypsum board.
- I. Other items such as wood, sheet metal or plastic panels should be screwed to comply with deflection limit equivalent to that of the ceiling installation.
- J. Use channel molding or angle molding to interface with drywall grid system to provide perimeter attachment or to obtain drop soffits, verticals, slopes etc.
- K. For light fixtures (Type F), use secondary framing cross tees as required to frame opening.
- L. Single cross tees in a route hole to be secured by 7/16 inch framing screw or alternative methods.

3.2 INSTALLATION - INTERIOR APPLICATIONS

- A. Install main beams and cross tees at the on center spacing required for ceiling loading and location of in-ceiling services.
- B. Additional bracing as required by code.

END OF SECTION

SECTION 09290
GYPSUM BOARD

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions", "Special Requirements" and "General Requirements" form a part of this Section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Fire rated interior gypsum board for ceilings.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

PART 2 - PRODUCTS

2.1 INTERIOR GYPSUM BOARD

- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M as applicable to type of gypsum board indicated and whichever is more stringent.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:
 - a. National Gypsum Company
 - b. Or approved equal

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- B. Hi-Abuse Type: Fire, abuse and mold resistant gypsum board. A gypsum core panel with additives to enhance fire resistance, surface indentation resistance and impact resistance of the core and surfaced with abrasion, moisture/mold/mildew resistant paper on front, back and along edges; and complying with ASTM C 1396 Type X.
1. Thickness: 5/8 inch.
 2. Width: 4 feet.
 3. Length: 8 feet through 12 feet.
 4. Edges: Tapered.
 5. Surface Abrasion Resistance: Not greater than 0.009 depth inch when tested at 50 cycles in accordance with ASTM D 4977, modified.
 6. Indentation Resistance: Not greater than 0.132 inch depth when tested at an impact load of 72 in.-lbs. in accordance with ASTM D 5420.
 7. Impact/Penetration Resistance: Not less than 210 ft.-lbs. required to penetrate when tested in accordance with ASTM E 3273.
 8. Mold/Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273.

2.2 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet.
 2. Shapes:
 - a. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - b. L-Bead: L-shaped; exposed long flange receives joint compound.
 - c. U-Bead: J-shaped; exposed short flange does not receive joint compound.
 - d. Expansion (control) joint.

2.3 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:
 - 1. Interior Gypsum Wallboard: Paper.
- C. Joint Compound for Interior Gypsum Wallboard: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints, rounded or beveled panel edges and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners and trim flanges, use setting-type taping, drying-type, all-purpose compound.
 - a. Use setting-type compound for installing paper-faced metal trim accessories.
 - 3. Fill Coat: For second coat, use setting-type, sandable topping compound.
 - 4. Finish Coat: For third coat, use setting-type, sandable topping compound.

2.4 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
 - 1. Use adhesives that have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- C. Steel Drill Screws: ASTM C 1002 unless otherwise indicated.
 - 1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.

PART 3 - EXECUTION

3.1 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C 840.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged and mold damaged.
- C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments except floors. Provide 1/4- to 1/2-inch wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.

3.2 APPLYING INTERIOR GYPSUM BOARD

- A. General: In accordance with the manufacturer's recommendations.

3.3 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints at locations according to ASTM C 840 and in specific locations approved by Facility for visual effect.

3.4 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Pre-fill open joints, rounded or beveled edges and damaged surface areas.
- C. Apply joint tape over gypsum board joints except those with trim having flanges not intended for tape.

- D. Gypsum Board Finish Levels: Finish panels to levels indicated below:
 - 1. Level 4: Suitable for surfaces receiving light textured finish wall coverings and flat paints standard exposed flat finishes with application of 'drywall primer' (ASTM C 840).
 - a. Primer and its application to surfaces are specified in other Division 09 Sections.

3.5 PROTECTION

- A. Protect installed products from damage from condensation, direct sunlight, construction and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION

SECTION 09545
ACOUSTICAL METAL PAN CEILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general conditions of the contract, including General and Supplementary Conditions and Divisions 1 specification sections, apply to work of this section.

1.2 SUMMARY

A. Section Includes:

1. Metal ceiling panels.
2. Exposed grid suspension system.
3. Wire hangers, fasteners, main runners, cross tees, wall angle moldings and accessories.

B. Related Sections:

1. Section 09120 – Drywall Grid Systems
2. Division 16 Section – Lighting Fixtures

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
2. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
3. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
7. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
8. ASTM E 1414 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum.
9. ASTM E 1111 Standard Test Method for Measuring the Interzone Attenuation of Ceilings Systems.
10. ASTM E 1264 Classification for Acoustical Ceiling Products.
11. ASTM E 1477 Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each type of ceiling unit and suspension system required.
- B. Installation Instructions: Submit manufacturer's installation instructions as referenced in Part 3, Installation.
- C. Samples: Minimum 4 inch x 4 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system including main runner and 4 foot cross tees.
- D. Shop Drawings: Layout and details of ceilings. Show locations of items which are to be coordinated with or supported by the ceilings.
- E. Certifications: Manufacturer's certifications that products comply with specified requirements including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material must carry an approved independent laboratory classification of NRC, CAC and AC.

- F. If the material supplied by the acoustical subcontractor does not have a Factory Mutual classification of acoustical performance on every carton, subcontractor shall be required to send material from every production run appearing on the job to an independent or NVLAP approved laboratory for testing at the Facility's discretion. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.

1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide ceiling panel units and grid components by a single manufacturer.
- B. Fire Performance Characteristics: Identify ceiling components with appropriate markings of applicable testing and inspecting organization.
 - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.
 - a. Flame Spread: 25 or less
 - b. Smoke Developed: 50 or less
- C. Coordination of Work: Coordinate ceiling work with installers of related work including, but not limited to, building insulation, gypsum board, light fixtures, mechanical systems, electrical systems and sprinklers.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store the ceiling panels in a dry, interior location and keep in cartons prior to installation to avoid damage.
- B. Exercise care in moving and opening cartons to prevent damage to the panel face.

1.7 PROJECT CONDITIONS

- A. Space Enclosure: All ceiling products and suspension systems must be installed and maintained in accordance with manufacturer's written installation instructions for that product in effect at the time of installation and best industry practice. Prior to installation, the ceiling product must be kept clean and dry, in an environment that is between 32°F (0°C) and 120°F (49°C) and not subject to abnormal conditions. Abnormal conditions include exposure to chemical fumes, vibrations, moisture from conditions such as building leaks or condensation, excessive humidity, or excessive dirt or dust buildup.

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1.8 WARRANTY

- A. Ceiling Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include but are not limited to:
1. Ceiling Panels: Sagging and warping
 2. Grid System: Rusting and manufacturer's defects
- B. Warranty Period:
1. Ceiling panels: One (1) year from date of substantial completion.
 2. Grid: Ten (10) years from date of substantial completion.
- C. The warranty shall not deprive the Facility of other rights the Facility may have under other provisions of the contract documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the contract documents.

1.9 MAINTENANCE

- A. Extra Materials: Deliver extra materials to owner. Furnish extra materials described below that match products installed, packaged with protective covering for storage and identified with appropriate labels.
1. Ceiling Units: Furnish quality of full-size units equal to 5.0 percent of amount installed.
 2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Ceiling Panels:
1. Armstrong World Industries, Inc. or approved equal.
- B. Suspension Systems:
1. Armstrong World Industries, Inc. or approved equal.

2.2 METAL CEILINGS PANELS

A. Ceiling Panels Type ACT-1:

1. Surface Texture: Smooth
2. Composition: Electrogalvanized Steel – 18 gauge with post production powder coated paint finish
3. Color: White
4. Size: 24 inch x 24 inch
5. Perforation Options: Unperforated Edge Profile: Lay-In for Interface with Prelude XL 15/16" Heavy Duty Exposed Tee
6. Noise Reduction Coefficient (NRC): ASTM C 423; Classified with UL label on product carton, (unperforated - N/A) (perforated - 0.10) (perforated with optional fiberglass infill item #8200100 – 0.80)
7. Ceiling Attenuation Class (CAC): ASTM C 1414; Classified with UL label on product carton, (unperforated - 36) (perforated with optional field cut item #747 mineral fiber backing – 38)
8. Flame Spread: ASTM E 1264; Class A (FM)
9. Light Reflectance (LR): ASTM E 1477; White Panel: Light Reflectance: unperforated - 0.77
10. Dimensional Stability: Standard
11. Acceptable Product: MetalWorks SecureLock as manufactured by Armstrong World Industries or approved equal.

B. Accessories:

1. 24 inch x 24 inch Exit Panel unperforated; Item # 5695P1WH

2.3 SUSPENSION SYSTEMS

- A. Components: All main beams and cross tees shall be commercial quality hot-dipped galvanized (galvanized steel, aluminum or stainless steel) as per ASTM A 653. Main beams and cross tees are double-web steel construction with null type exposed flange design. Exposed surfaces chemically cleansed, capping pre-finished galvanized steel in baked polyester paint. Main beams and cross tees shall have rotary stitching (exception: extruded aluminum or stainless steel).
1. Structural Classification: ASTM C 635 Heavy Duty.
 2. Color: White and match the actual color of the selected ceiling tile unless noted otherwise.
 3. Acceptable Product: Prelude XL 15/16" Exposed Tee as manufactured by Armstrong World Industries, Inc.
 - a. 12' HD Main Beam – 7301
 - b. 2' Cross Tee – XL8320
- B. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
- C. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three design load, but not less than 12 gauge.
- D. Edge Moldings and Trim: Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, including light fixtures, that fit type of edge detail and suspension system indicated. Provide moldings with exposed flange of the same width as exposed runner.
- E. Accessories:
- a. 24 inch x 24 inch Hold Down Border Clips; 18 gauge – Item #5396
 - b. Compression Strut; Item #5594
 - c. Security Screws; Torx style, compatible with other Facility security screw systems present
 - d. Tek Screws: Item #5598
 - e. C Channel; 18 gauge – Item #5650

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not proceed with installation until all wet work, such as painting, has been completed and thoroughly dried out.

3.2 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

3.3 INSTALLATION

- A. Install suspension system and panels in compliance with ASTM C636, with the authorities having jurisdiction, and in accordance with the manufacturer's installation instructions:
 - 1. MetalWorks SecureLock Installation Instructions, LA-297578.
 - 2. MetalWorks Cutting Instructions, LA 295518
- B. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- C. Follow the instructions found in "MetalWorks SecureLock Installation Instructions", LA-297578 for border treatment of the MetalWorks SecureLock panels. The face of the suspension system rests directly on the molding or trim flange.
- D. Installation consideration: With a 24 inch x 24 inch panel system, the perimeter connection must support a 1000 lb upward load applied anywhere along the panel edge within 3 inches of the perimeter channel.

3.4 ADJUSTING AND CLEANING

- A. Replace damaged and broken panels.
- B. Clean exposed surfaces of ceilings panels including trim, edge moldings and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 09900
PAINTING

PART I - GENERAL

1.1 DESCRIPTION

- A. Applicable requirements of the "General Conditions of Contract" and Division 1 are part of this Section and shall have the same force and effect as if printed herewith in full.
- B. Work included
 - 1. Paint and finish the all interior exposed new ceiling surfaces, including new access panels and HVAC registers, listed on drawings as specified herein and as needed for a complete and proper installation.
- C. Related work
 - 1. Priming and finishing of certain surfaces may be specified to be factory performed in installer performed under pertinent other sections.
- D. Work not included
 - 1. Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials will not require painting under this Section except as may be so specified.
 - 2. Do not paint moving parts of operating units; mechanical or electrical parts such as valve operators, linkages, sensing devices and motor shafts unless otherwise indicated.
- E. Definitions
 - 1. "Paint," as used herein, means coating systems materials including primers, emulsions, epoxy, stains/varnish, enamels, sealers, urethanes, fillers and other applied materials whether used as prime, intermediate or finish coats.

1.2 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Conform to all applicable International Building Code provisions for flame/fuel/smoke rating requirements for finishes.

C. Paint coordination

1. Provide finish coats which are compatible with the prime coats actually used.
2. Upon request, furnish information on the characteristics of the specific finish materials to assure that compatible prime coats are used.
3. Provide barrier coats over non-compatible primers or remove the primer and re-prime as required.

D. Use no lead based paints.

1.3 SUBMITTALS

A. Comply with pertinent provisions of Section 01340.

B. Product data: Time being of the essence, submit as soon as possible:

1. Materials list of items proposed to be provided under this Section.
2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.

C. Samples

1. Following the selection of colors and glosses by the Facility, as described under "Color Schedules" in Part 2 of this Section, submit samples for the Facility's review.
 - a. Provide two samples of each color and each gloss for each material on which the finish is specified to be applied.
2. Revise and resubmit each sample as requested until the required gloss, color and texture is achieved. Such samples, when approved, will become standards of color and finish for accepting or rejecting the work of this Section.

1.4 PRODUCT HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptance.
- B. Container labeling to include manufacturer's name, type of paint, brand name, brand code, coverage, surface preparation, drying time, cleanup, color designation and instructions for mixing and reducing.

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- C. Store paint materials at minimum ambient temperature of 45°F (7°C) and maximum of 90°F (32°C) in well ventilated area unless required otherwise by manufacturer's instructions.
- D. Take precautionary measures to prevent fire hazards and spontaneous combustion.

1.5 ENVIRONMENTAL REQUIREMENTS

- A. Provide continuous ventilation and heating facilities to maintain surface and ambient temperatures above 45°F (7°C) for 24 hours before, during and after application of finishes unless required otherwise by manufacturer's instructions.
- B. Minimum Application Temperatures for Latex Paints: 45°F (7°C) for interiors.
- C. Provide lighting level of 80 ft. candles measured at mid-height at substrate surface.

PART 2 - PRODUCTS

2.1 PAINT MATERIALS

- A. Acceptable materials
 - 1. Pratt and Lambert
 - 2. Sherwin Williams
 - 3. Pittsburgh Paints
 - 4. Benjamin Moore
 - 5. Or approved equal
- B. Undercoats and thinners
 - 1. Provide undercoat paint produced by the same manufacturer as the finish coat.
 - 2. Use only the thinners recommended by the paint manufacturer and use only to the recommended limits.
 - 3. Use undercoat, finish coat and thinner material as parts of a unified system of paint finish.

2.2 COLOR SCHEDULES

- A. The Facility will prepare a color schedule with samples for guidance in painting during the project.
- B. Refer to Finish Schedule, this Section, for paint type.

2.3 APPLICATION EQUIPMENT

- A. Prior to use of application equipment, verify that the proposed equipment is actually compatible with the material to be applied and that integrity of the finish will not be jeopardized by use of the proposed equipment.

2.4 OTHER MATERIALS

- A. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Facility.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.

3.2 MATERIALS PREPARATION

A. General

1. Mix and prepare paint materials in strict accordance with the manufacturer's recommendations as approved by the Contractor.
2. When materials are not in use, store in tightly covered containers.
3. Maintain containers used in storage, mixing and application of paint in a clean condition, free from foreign materials and residue.
4. Remove electrical plates, hardware, light fixture trim and fittings prior to preparing surfaces or finishing.
5. Correct minor defects and clean surfaces which affect work of this Section, shellac and seal marks which may bleed through surface finishes.

6. Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
7. Gypsum Board Surfaces: Latex fill minor defects. Spot-prime defects after repair.

3.3 SURFACE PREPARATION

A. General

1. Perform preparation and cleaning procedures in strict accordance with the paint manufacturer's recommendations as approved by the Contractor.
2. Remove removable items which are in place and are not scheduled to receive paint finish; or provide surface-applied protection prior to surface preparation and painting operations.
3. Following completion of painting in each space or area, re-install the removed items by using workmen who are skilled in the necessary trades.
4. Clean each surface to be painted prior to applying paint or surface treatment.
5. Schedule the cleaning and painting so that dust and other contaminants from the cleaning process will not fall onto wet, newly painted surfaces.

B. Preparation of metal surfaces

1. Thoroughly clean surfaces until free from dirt, oil and grease.
2. On galvanized surfaces, use solvent for the initial cleaning and then treat the surface thoroughly with phosphoric acid etch. Remove etching solution completely before proceeding.
3. Allow to dry thoroughly before application of paint.

3.4 PAINT APPLICATION

A. General

1. Touch-up shop-applied prime coats which have been damaged and touch up bare areas prior to start of finish coats application.

2. Slightly vary the color of succeeding coats.
 - a. Do not apply additional coats until the completed coat has been inspected and approved.
 - b. Only the inspected and approved coats of paint will be considered in determining the number of coats applied.
3. Sand and dust between coats to remove defects visible to the unaided eye from a distance of five feet.
4. On removable panels and hinged panels, paint the back sides to match the exposed sides.

B. Drying

1. Allow sufficient drying time between coats, modifying the period as recommended by the material manufacturer to suit adverse weather conditions.
2. Consider oil-base and oleo-resinous solvent-type paint as dry for recoating when the paint feels firm, does not deform or feel sticky under moderate pressure of the thumb, and then the application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.

C. Brush applications

1. Brush out and work the brush coats onto the surface in an even film.
2. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness and other surface imperfections will not be acceptable.

D. Spray application

1. Except as specified otherwise, approved by the Contractor, confine spray application to metal framework and similar surfaces where hand brush work would be inferior.
2. Where spray application is used, apply each coat to provide the hiding equivalent of brush coats.
3. Do not double back with spray equipment to build up film thickness of two coats in one pass.

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- E. For completed work, match the approved samples as to texture, color and coverage. Remove, refinish or repaint work not in compliance with the specified requirements.
- F. Miscellaneous surfaces and procedures
 - 1. Hardware: Paint prime coated hardware to match adjacent surfaces.
 - 2. Wet areas
 - a. For oil base paints, use 1% phenolmercuric or 4% tetrachlorophenol or as approved by Contractor.
 - b. For water emulsion and glue size surfaces, use 4% sodium tetrachlorophenate or as approved by Contractor.
 - 3. Exposed vents: Apply two coats of heat-resistant paint approved by the Designer.

3.5 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

- A. Paint shop primed equipment.
- B. Remove unfinished louvers, grilles, covers and access panels on mechanical and electrical components and paint separately.
- C. Prime and paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, except where items are prefinished.
- D. Replace identification markings on mechanical or electrical equipment when painted accidentally.
- E. Paint exposed conduit and electrical equipment occurring in finished areas.
- F. Replace electrical plates, hardware, light fixture trim and fittings removed prior to finishing.

3.6 CLEANING

- A. As work proceeds, promptly remove paint where spilled, splashed or spattered.
- B. During progress of work, maintain premises free of unnecessary accumulation of tools, equipment, surplus materials and debris.
- C. Collect cotton waste, cloths and material which may constitute a fire hazard, place in closed metal containers and remove daily from site.

3.7 SCHEDULE - INTERIOR SURFACES (Paints are based on Pratt and Lambert products)

A. Gypsum Wallboard

1. One coat wallboard primer (vinyl acrylic wall primer) or approved equal
2. Two coats alkyd enamel (Pro-Hide Plus Alkyd Satin) or approved equal

B. Steel - Primed: new access panel doors and frames or other ferrous metals at ceiling plane

1. Touch up with original primer
2. Two coats enamel, gloss

3.8 COLORS

As selected by the Facility.

END OF SECTION

SECTION 16510
LIGHTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.2 DESCRIPTION OF WORK

A. Scope:

1. This section specifies the basic requirements for raceways, fittings and accessories. These components include, but are not limited to, the following:
 - a. Interior luminaries and accessories.
 - b. Ballasts.
 - c. Lamps.
 - d. Luminaire accessories.
 - e. Illuminated exit signage
2. All labor, equipment, materials, tools and other services necessary for a complete and proper installation as specified herein, as shown on the drawings, or as may be required, shall be furnished under this contract.

1.3 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with the requirements of the following codes:

1. 2008 National Electrical Code.

NOTE: Reference to the "authority having jurisdiction" in these specifications and the code listed above shall mean the local Codes Enforcement Officer.

B. Reference Standards

1. ANSI C82.1 - Ballasts for Fluorescent Lamps - Specifications.
2. ANSI/NFPA 70 - National Electrical Code.

1.3 SUBMITTALS

- A. Product Data: Provide dimensions, ratings and performance data including photometric data.
- B. Manufacturer's Instructions: Indicate application conditions and limitations of use stipulated by product testing agency specified under Regulatory Requirements.
- C. Manufacturer's Instructions: Include instructions for storage, handling, protection, examination, preparation and installation of product.

1.4 EXTRA MATERIALS

- A. Furnish the Facility with two (2) of each of any special tools required for relamping lighting fixtures. They shall be new and shall be turned over to the Facility when the project is completed.

PART 2 - PRODUCTS

2.1 LUMINARIES

- A. Furnish products as specified and as indicated on contract drawing.
- B. The electrical contractor shall furnish and install a complete complement of luminaries, as required, and all associated appurtenances including, but not necessarily limited to, all lamps, ballasts, reflectors, lenses and/or louvers, sockets, holders, suspension accessories, pendants, canopies, recessing boxes, plaster frames etc., completely wired, assembled, installed and tested as specified and in the manner indicated.
- C. The fixture manufacturer's catalog numbers, hereinafter specified describing the various types of fixtures, may not include all the required accessories or hardware that is necessary for a complete installation.
- D. Every existing lighting fixture outlet shall have a new lighting fixture installed unless otherwise directed.

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- E. All recessed fluorescent lighting fixtures shall be provided with an integral, automatic resetting, thermal cut-out.

2.2 FIXTURE TYPE IDENTIFICATION

- A. Fixture types are indicated on the drawings and reflect the type of mounting and the total lamp wattage of the fixture.

2.3 BALLASTS

A. Fluorescent Ballast:

1. All fluorescent fixtures utilizing 4' T-8 lamps shall be furnished with electronic ballasts unless otherwise noted. These ballasts shall comply with UL requirements and listed Class "P" per UL Standard 935. Ballasts shall meet FCC, Part 18 requirements along with all state and federal energy efficiency standards, have an "A" sound rating for quiet operation and be rated for full light output. Voltage shall be as indicated in fixture schedule. Ballasts shall be manufactured by Advance - Mark V or Motorola.

2.4 LAMPS

A. Fluorescent Lamps:

1. Unless otherwise noted, all 48" fluorescent lamps shall be rapid start, 4100 color temperature, 75 minimum CRI, medium bipin, T-8, 20,000 hour rated average life, 32 watt with a minimum of 2850 initial lumens. Lamps shall be manufactured by General Electric, Sylvania, or Philips.

2.5 EMERGENCY EXIT SIGNAGE

A. LED exit fixtures:

1. Provide new Quantum series LED exit fixtures, without battery backup (existing life safety code generator and circuitry) by Lithonia Lighting or approved equal to replace all existing ceiling mounted illuminated exit signage present within contract limits. All new exit fixtures shall be UL 924 listed, meet NFPA 101, 120/277 Vac 60 Hz. Include a white cast aluminum housing that is impact, scratch and corrosion resistant. Conduct all final electrical work and furnish all electrical hardware required to replace exit signage in accordance with all applicable provisions of the National Electrical Code (NEC) latest edition.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrate and supporting grids for luminaries.
- B. Examine each luminaire to determine suitability for lamps specified.
- C. Examine each luminaire for damage by carrier.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Contractor shall furnish all necessary additional auxiliary supporting steel for fixtures not mounted on suspended ceiling framework and, where necessary, to span the ceiling channels of hung ceiling construction. Fixtures supported by ceiling framing members shall be securely attached to the framing members in a manner approved by the National Electric Code.
- C. Locate recessed ceiling luminaries as indicated on electrical plans. Coordinate with other disciplines.
- D. Install all new luminaries plumb and adjust to align with building lines and with each other. Secure to prohibit movement.
- E. Install recessed luminaries to permit removal from below.
- F. Fixtures and/or fixture outlet boxes shall be provided with hangers to adequately support the complete weight of the fixture. Design of hangers and method of fastening other than herein specified shall be submitted to the Project Designer for approval. Fixtures mounted on outlet boxes shall be rigidly secured to a fixture stud in the outlet box. Hickies or extension pieces shall be installed where required to facilitate proper installation. Fixtures that weigh more than 50 pounds shall be supported independently of the outlet box.
- G. Install clips to secure recessed grid-supported luminaries in place.
- H. Install wall mounted emergency exit luminaries at an approved height as indicated by the manufacturer.
- I. Install accessories furnished with each luminaire.
- J. Connect luminaries to existing branch circuit outlets

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- K. Make wiring connections to branch circuit using building wire with insulation suitable for temperature conditions within luminaire.
- L. Bond products and metal accessories to branch circuit equipment grounding conductor.
- M. Install specified lamps in each luminaire.
- N. Install recessed luminaires using accessories and firestopping materials to meet regulatory requirements for fire rating.

3.3 FIELD QUALITY CONTROL

- A. Operate each luminaire after installation and connection. Inspect for proper connection and operation.

3.4 ADJUSTING

- A. Relamp luminaires that have failed lamps at substantial completion.

3.5 CLEANING

- A. Clean electrical parts to remove conductive and deleterious materials.
- B. Remove dirt and debris from enclosure.
- C. Clean photometric control surfaces as recommended by manufacturer.
- D. Clean finishes and touch up damage as directed by Facility.

END OF SECTION

END OF SPECIFICATIONS

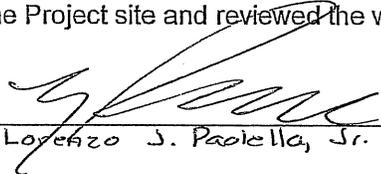
PROOF OF VISIT

Department of Public Welfare
Division of Facilities and Property Management

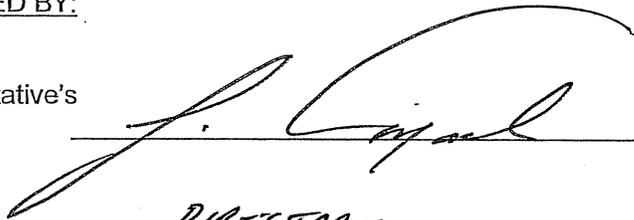
Project Reference No. W-0509-0905
Harden First Floor Corridor Ceilings at Building No. 10 – Ward Building
Norristown State Hospital

Vendor's Name: L.J. PAOLELLA CONSTRUCTION, INC.
Address: 278 BRIDGEWATER ROAD
BROOKHAVEN, PA 19005

I visited the Project site and reviewed the work to be completed prior to submitting a Bid Proposal.

Signature  Date 1-21-11
Lorenzo J. Paolella, Jr.

ESCORTED BY:

Facility Representative's Signature: 
Title: DIRECTOR

Date Escorted: 1-21-11

SPECIAL NOTE TO BIDDER

One signed copy of this Proof of Visit form must be returned with your Bid or your Bid will be rejected.
You may keep one copy for your records.