

**ADDENDUM #2**  
**Hillsborough County Sheriff's Office -**  
**Pinebrooke Building 4 Interior Renovation**  
**1/15/2020**

This addendum is made and hereby becomes a part of the Construction Documents for this project dated September 20, 2019 as prepared by Long & Associates Architects/Engineers, Inc., 4525 S. Manhattan Avenue, Tampa, FL 33611.

Changes to Drawings:

1.01 Refer to revised Sheets A1.2 and A1.3:

- A. See clouded areas of attached revised drawings for revisions. Drawing was revised to show correct name for Furniture items 108, 110 and 323.

1.02 Refer to revised Sheet A7.2

- A. See clouded areas of attached revised drawing for revisions. Detail 7 was revised to show that the specified Markerboard is to be provided and installed by the Contractor.

1.03 Refer to revised Sheet A7.1

- A. See clouded areas of attached revised drawing for revisions. Toilet accessories were called out on the sheet.

1.04 Refer to revised Sheet A8.1

- A. See clouded areas of attached revised drawing for revisions. Signage details and locations were added to sheet.

1.05 Refer to revised Sheet S1.2

- A. See clouded area of attached revised drawing for revisions. Equipment pad dimensions were added to the sheet.

Changes to Specifications:

1.06 Refer to revised Table of Contents

- A. Table of Contents is revised to show removed specifications

1.07 Refer to revised Specification 015000 – Temporary Facilities and Controls

- A. Specification is revised to clarify conflicts and determine who is responsible for paying Use Charges.

1.08 Refer to revised Specification 003119 – Existing Condition Information

- A. Reference to Specification 002113 is deleted.

1.09 Refer to revised Specification 003126 – Existing Hazardous Material Information-Asbestos Survey

- A. Reference to Specification 002113 is deleted.

1.10 Refer to revised Specification 102800 – Toilet and Bath Accessories  
A. Specification is revised to update Acceptable Manufacturers.

1.11 Remove Specification 101100 – Visual Display Units

1.12 Remove Specification 096500 – Resilient Flooring

1.13 Remove Specification 096811 – Carpet Tiles

1.14 Remove Specification 002113 – Instruction to Bidders

1.15 Refer to revised Specification 104399 – Signage  
A. Specification is revised to clarify necessary project signage  
B. Specification is revised to show Acceptable Manufacturers.

Attachments: Revised Sheets: A1.2, A1.3, A7.1, A7.2, A8.1, S1.2  
Revised/Removed Specs: Table of Contents, 003119, 003126, 015000, 101100,  
096500, 096811, 002113, 102800, 104399

END OF ADDENDUM #2

## TABLE OF CONTENTS

### DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

SECTION 000107 - SEALS PAGE  
~~SECTION 002113 - INSTRUCTIONS TO BIDDERS~~  
SECTION 003119 - EXISTING CONDITION INFORMATION  
SECTION 003126 - EXISTING HAZARDOUS MATERIAL INFORMATION  
- ASBESTOS SURVEY

### DIVISION 01 - GENERAL REQUIREMENTS

SECTION 011000 - SUMMARY  
SECTION 012500 - SUBSTITUTION PROCEDURES  
SECTION 012600 - CONTRACT MODIFICATION PROCEDURES  
SECTION 012900 - PAYMENT PROCEDURES  
SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION  
SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION  
SECTION 013300 - SUBMITTAL PROCEDURES  
SECTION 013516 - ALTERATION PROJECT PROCEDURES  
SECTION 014000 - QUALITY REQUIREMENTS  
SECTION 014200 - REFERENCES  
SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS  
SECTION 016000 - PRODUCT REQUIREMENTS  
SECTION 017300 - EXECUTION  
SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL  
SECTION 017700 - CLOSEOUT PROCEDURES  
SECTION 017823 - OPERATION AND MAINTENANCE DATA  
SECTION 017839 - PROJECT RECORD DOCUMENTS  
SECTION 017900 - DEMONSTRATION AND TRAINING

### DIVISION 02 - EXISTING CONDITIONS

SECTION 024119 - SELECTIVE DEMOLITION

### DIVISION 03 - CONCRETE

SECTION 033000 - CAST-IN-PLACE CONCRETE

### DIVISION 04 - MASONRY

SECTION 042000 - UNIT MASONRY

DIVISION 05 - METALS

SECTION 051200 - STRUCTURAL STEEL FRAMING  
SECTION 055000 - METAL FABRICATIONS

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

SECTION 061000 - ROUGH CARPENTRY  
SECTION 064023 - INTERIOR ARCHITECTURAL WOODWORK

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 072100 - THERMAL INSULATION  
SECTION 076200 - SHEET METAL FLASHING AND TRIM  
SECTION 078413 - PENETRATION FIRESTOPPING  
SECTION 079200 - JOINT SEALANTS

DIVISION 08 - OPENINGS

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES  
SECTION 081416 - FLUSH WOOD DOORS  
SECTION 087102 - DOOR HARDWARE  
SECTION 088000 - GLAZING

DIVISION 09 - FINISHES

SECTION 092500 - GYPSUM DRYWALL SYSTEMS  
SECTION 093013 - CERAMIC TILING  
SECTION 095113 - ACOUSTICAL PANEL CEILINGS  
~~SECTION 096500 - RESILIENT FLOORING~~  
~~SECTION 096844 - CARPET TILES~~  
SECTION 099113 - PAINTING

DIVISION 10 - SPECIALTIES

~~SECTION 101400 - VISUAL DISPLAY UNITS~~  
SECTION 102113 - PLASTIC TOILET COMPARTMENTS  
SECTION 102800 - TOILET AND BATH ACCESSORIES  
SECTION 104399 - SIGNAGE  
SECTION 104400 - FIRE-PROTECTION SPECIALTIES

DIVISION 11 - EQUIPMENT

NOT APPLICABLE

DIVISION 12 - FURNISHINGS

NOT APPLICABLE

DIVISION 13 - SPECIAL CONSTRUCTION

NOT APPLICABLE

DIVISION 14 - CONVEYING EQUIPMENT

NOT APPLICABLE

DIVISION 21 - FIRE SUPPRESSION

NOT APPLICABLE

DIVISION 22 - PLUMBING

SECTION 220517 - SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING  
SECTION 220518 - ESCUTCHEONS FOR PLUMBING PIPING  
SECTION 220523.12 - BALL VALVES FOR PLUMBING PIPING  
SECTION 220529 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT  
SECTION 220553 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT  
SECTION 220719 - PLUMBING PIPING INSULATION  
SECTION 221116 - DOMESTIC WATER PIPING  
SECTION 221119 - DOMESTIC WATER PIPING SPECIALTIES  
SECTION 221316 - SANITARY WASTE AND VENT PIPING  
SECTION 221319 - SANITARY WASTE PIPING SPECIALTIES  
SECTION 223300 - ELECTRIC, DOMESTIC-WATER HEATERS  
SECTION 224100 - RESIDENTIAL PLUMBING FIXTURES  
SECTION 224213.13 - COMMERCIAL WATER CLOSETS AND URINALS  
SECTION 224216.13 - COMMERCIAL LAVATORIES  
SECTION 224716 - PRESSURE WATER COOLERS

DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)

SECTION 230120 - BASIC MECHANICAL REQUIREMENTS  
SECTION 230121 - BASIC MECHANICAL MATERIALS AND METHODS  
SECTION 230518 - ESCUTCHEONS FOR HVAC PIPING  
SECTION 230529 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT  
SECTION 230553 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT  
SECTION 230594 - TESTING, ADJUSTING, BALANCING, AND COMMISSIONING FOR HVAC  
SECTION 230713 - DUCT INSULATION  
SECTION 230714 - PIPE INSULATION  
SECTION 232300 - REFRIGERANT PIPING  
SECTION 233113 - METAL DUCTS  
SECTION 233300 - AIR DUCT ACCESSORIES  
SECTION 233423 - HVAC POWER VENTILATORS  
SECTION 233713.13 - AIR DIFFUSERS  
SECTION 237416.11 - PACKAGED, SMALL-CAPACITY, ROOFTOP AIR-CONDITIONING UNITS  
SECTION 238126 - SPLIT-SYSTEM AIR-CONDITIONERS

DIVISION 25 - INTEGRATED AUTOMATION

NOT APPLICABLE

DIVISION 26 - ELECTRICAL

SECTION 260516 - GENERAL PROVISIONS  
SECTION 260517 - EXISTING CONDITIONS  
SECTION 260518 - BASIC ELECTRICAL MATERIALS AND METHODS  
SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES  
SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS  
SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS  
SECTION 260533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS  
SECTION 260544 - SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING  
SECTION 260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS  
SECTION 260574 - POWER DISTRIBUTION SYSTEM - SHORT CIRCUIT, COORDINATION AND ARC FLASH ANALYSIS  
SECTION 260924 - LIGHTING CONTROL DEVICES  
SECTION 262413 - DISTRIBUTION SWITCHBOARDS  
SECTION 262416 - PANELBOARDS  
SECTION 262713 - ELECTRICITY METERING  
SECTION 262727 - WIRING DEVICES  
SECTION 262813 - FUSES  
SECTION 262816 - ENCLOSED SWITCHES  
SECTION 264314 - TRANSIENT VOLTAGE SURGE SUPPRESSOR/SURGE PROTECTION DEVICES  
SECTION 265119 - LED INTERIOR LIGHTING  
SECTION 265219 - EMERGENCY AND EXIT LIGHTING  
SECTION 265600 - EXTERIOR LIGHTING  
SECTION 265619 - LED EXTERIOR LIGHTING  
SECTION 265622 - HVAC SYSTEMS

DIVISION 27 - COMMUNICATIONS

NOT APPLICABLE

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

SECTION 280528 - PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY  
SECTION 280544 - SLEEVES AND SLEEVE SEALS FOR ELECTRONIC SAFETY AND SECURITY PATHWAYS AND CABLING  
SECTION 283111 - FIRE ALARM SYSTEM

DIVISION 31 - EARTHWORK

NOT APPLICABLE

DIVISION 32 - EXTERIOR IMPROVEMENTS

NOT APPLICABLE

DIVISION 33 - UTILITIES

NOT APPLICABLE

DIVISION 34 - TRANSPORTATION

NOT APPLICABLE

DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION

NOT APPLICABLE

DIVISION 40 - PROCESS INTEGRATION

NOT APPLICABLE

DIVISION 41 - MATERIAL PROCESSING AND HANDLING EQUIPMENT

NOT APPLICABLE

DIVISION 42 - PROCESS HEATING, COOLING, AND DRYING EQUIPMENT

NOT APPLICABLE

DIVISION 43 - PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE  
EQUIPMENT

NOT APPLICABLE

DIVISION 44 - POLLUTION CONTROL EQUIPMENT

NOT APPLICABLE

DIVISION 45 - INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT

NOT APPLICABLE

DIVISION 46 - WATER AND WASTEWATER EQUIPMENT

NOT APPLICABLE

DIVISION 48 - ELECTRICAL POWER GENERATION

NOT APPLICABLE

SECTION 003119 - EXISTING CONDITION INFORMATION

PART 1 - GENERAL

1.1 EXISTING CONDITION INFORMATION

- A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of the Bidders' own investigations. They are made available for Bidders' convenience and information, but are not a warranty of existing conditions.
- B. Limited Existing drawings that include information on existing conditions at the Project site are available for reference.
- C. Related Requirements:
  - 1. Section 003126 "Existing Hazardous Material Information" for hazardous materials reports that are made available to bidders.

END OF SECTION 003119



SECTION 003126 - EXISTING HAZARDOUS MATERIAL INFORMATION

PART 1 - GENERAL

1.1 EXISTING HAZARDOUS MATERIAL INFORMATION

- A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information, but are not a warranty of existing conditions.
- B. An existing asbestos report for the Project, is available for review from the Owner.
- C. An existing lead report for the Project, is available for review from the Owner.
- D. Related Requirements:
  - 1. Section 003119 "Existing Condition Information" for information about existing conditions that is made available to bidders.
  - 2. Section 024119 "Selective Structure Demolition" for notification requirements if materials suspected of containing hazardous materials are encountered.

END OF SECTION 003126

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
  - 1. Section 011000 "Summary" for work restrictions and limitations on utility interruptions.
  - 2. Section 011200 "Multiple Contract Summary" for responsibilities for temporary facilities and controls for projects utilizing multiple contracts.
  - 3. Section 012100 "Allowances" for allowance for metered use of temporary utilities.

1.3 USE CHARGES

- A. Installation, removal, and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to, Architect, testing agencies, and authorities having jurisdiction.
- B. Sewer Service: Owner will pay sewer-service use charges for sewer usage by all entities for construction operations.
- C. Water Service: Owner will pay water-service use charges for water used by all entities for construction operations.
- D. Electric Power Service: Owner will pay electric-power-service use charges for electricity used by all entities for construction operations.
- E. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- F. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

- G. Sewer, Water, and Electric Power Service: Use charges are specified in Section 011200 "Multiple Contract Summary."

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.
- B. Implementation and Termination Schedule: Within 15 days of date established for commencement of the Work, submit schedule indicating implementation and termination dates of each temporary utility.
- C. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.
- D. Erosion- and Sedimentation-Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- E. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
- F. Moisture- and Mold-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage and mold. Describe delivery, handling, storage, installation, and protection provisions for materials subject to water absorption or water damage.
  - 1. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and requirements for replacing water-damaged Work.
  - 2. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.
  - 3. Indicate methods to be used to avoid trapping water in finished work.
- G. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Include the following:
  - 1. Locations of dust-control partitions at each phase of work.
  - 2. HVAC system isolation schematic drawing.
  - 3. Location of proposed air-filtration system discharge.
  - 4. Waste-handling procedures.
  - 5. Other dust-control measures.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

- H. Noise and Vibration Control Plan: Identify construction activities that may impact the occupancy and use of existing spaces within the building or adjacent existing buildings, whether occupied by others, or occupied by the Owner. Include the following:
1. Methods used to meet the goals and requirements of the Owner.
  2. Concrete cutting method(s) to be used.
  3. Location of construction devices on the site.
  4. Show compliance with the use and maintenance of quieted construction devices for the duration of the Project.
  5. Indicate activities that may disturb building occupants and that are planned to be performed during non-standard working hours as coordinated with the Owner.
  6. Indicate locations of sensitive equipment areas or other areas requiring special attention as identified by Owner. Indicate means for complying with Owner's requirements.

1.5 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.
- C. Accessible Temporary Egress: Comply with applicable provisions in the United States Access Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

1.6 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top rails , with galvanized barbed-wire top strand.
- B. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide concrete galvanized-steel bases for supporting posts.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

- C. Fencing Windscreen Privacy Screen: Polyester fabric scrim with grommets for attachment to chain-link fence, sized to height of fence, in color selected by Architect from manufacturer's standard colors.
- D. Wood Enclosure Fence: Plywood, 6 feet 8 feet high, framed with four 2-by-4-inch rails, with preservative-treated wood posts spaced not more than 8 feet apart.
- E. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil minimum thickness, with flame-spread rating of 15 or less in accordance with ASTM E84 and passing NFPA 701 Test Method 2.
- F. Dust-Control Adhesive-Surface Walk-Off Mats: Provide mats, minimum 36 by 60 inches.
- G. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

- A. Field Offices: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, Construction Manager, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:
  - 1. Furniture required for Project-site documents, including file cabinets, plan tables, plan racks, and bookcases.
  - 2. Conference room of sufficient size to accommodate meetings of 10 individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and 4-foot- square tack and marker boards.
  - 3. Drinking water and private toilet.
  - 4. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
  - 5. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.
- C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
  - 1. Store combustible materials apart from building.

2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

- B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
  - 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
  - 2. Heating, Cooling, and Dehumidifying Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
  - 3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 Insert number at each return-air grille in system and remove at end of construction and clean HVAC system as required in Section 017700 "Closeout Procedures."
- C. Air-Filtration Units: Primary and secondary HEPA-filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.

PART 3 - EXECUTION

3.1 TEMPORARY FACILITIES, GENERAL

- A. Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
  - 1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

3.2 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
  - 1. Locate facilities to limit site disturbance as specified in Section 011000 "Summary."
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.3 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
  - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

1. Connect temporary sewers to municipal system as directed by authorities having jurisdiction.
- C. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.
- D. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- E. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
  1. Use of Permanent Toilets: Use of Owner's existing or new toilet facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- F. Temporary Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
  1. Provide temporary dehumidification systems when required to reduce ambient and substrate moisture levels to level required to allow installation or application of finishes and their proper curing or drying.
- G. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.
  1. Prior to commencing work, isolate the HVAC system in area where work is to be performed.
    - a. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.
    - b. Maintain negative air pressure within work area, using HEPA-equipped air-filtration units, starting with commencement of temporary partition construction, and continuing until removal of temporary partitions is complete.
  2. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
  3. Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.
- H. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

- I. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
  - 1. Install electric power service overhead unless otherwise indicated.
  - 2. Connect temporary service to Owner's existing power source, as directed by Owner.
  
- J. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
  - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
  
- K. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install WiFi cell phone access equipment and one land-based telephone line for each field office.
  - 1. At each telephone, post a list of important telephone numbers.
    - a. Police and fire departments.
    - b. Ambulance service.
    - c. Contractor's home office.
    - d. Contractor's emergency after-hours telephone number.
    - e. Architect's office.
    - f. Construction Manager's home office.
    - g. Engineers' offices.
    - h. Owner's office.
    - i. Principal subcontractors' field and home offices.
  
- L. Electronic Communication Service: Provide secure WiFi wireless connection to internet with provisions for access by Architect and Owner.
  
- M. Project Computer: Provide a desktop computer in the primary field office adequate for use by Architect and Owner to access Project electronic documents and maintain electronic communications. Equip computer with not less than the following:
  - 1. Processor: Intel Core i5 or i7.
  - 2. Memory: 16 gigabyte.
  - 3. Disk Storage: 1-terabyte hard-disk drive and combination DVD-RW/CD-RW drive.
  - 4. Display: 24-inch LCD monitor with 256-Mb dedicated video RAM.
  - 5. Full-size keyboard and mouse.
  - 6. Network Connectivity: 10/100BaseT Ethernet.
  - 7. Operating System: Microsoft Windows 10 Professional.
  - 8. Productivity Software:
    - a. Microsoft Office Professional, 2013 or higher, including Word, Excel, and Outlook.
    - b. Adobe Reader DC.
    - c. WinZip 10.0 or higher.
  - 9. Printer: "All-in-one" unit equipped with printer server, combining color printing, photocopying, scanning, and faxing, or separate units for each of these three functions.



HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

10. Internet Service: Broadband modem, router, and ISP, equipped with hardware firewall, providing minimum 10.0 -Mbps upload and 15 -Mbps download speeds at each computer.
11. Internet Security: Integrated software, providing software firewall, virus, spyware, phishing, and spam protection in a combined application.
12. Backup: External hard drive, minimum 2 terrabytes, with automated backup software providing daily backups.

3.4 SUPPORT FACILITIES INSTALLATION

A. Comply with the following:

1. Provide construction for temporary field offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible in accordance with ASTM E136. Comply with NFPA 241.
2. Utilize designated area within existing building for temporary field offices.
3. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Locate temporary roads and paved areas within construction limits indicated on Drawings.

1. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust.

C. Temporary Use of Planned Permanent Roads and Paved Areas: Locate temporary roads and paved areas in same location as permanent roads and paved areas. Construct and maintain temporary roads and paved areas adequate for construction operations. Extend temporary roads and paved areas, within construction limits indicated, as necessary for construction operations.

1. Coordinate elevations of temporary roads and paved areas with permanent roads and paved areas.
2. Prepare subgrade and install subbase and base for temporary roads and paved areas in accordance with Section 312000 "Earth Moving."
3. Recondition base after temporary use, including removing contaminated material, regrading, proofrolling, compacting, and testing.
4. Delay installation of final course of permanent hot-mix asphalt pavement until immediately before Substantial Completion. Repair hot-mix asphalt base-course pavement before installation of final course in accordance with Section 321216 "Asphalt Paving."

D. Traffic Controls: Comply with requirements of authorities having jurisdiction.

1. Protect existing site improvements to remain, including curbs, pavement, and utilities.
2. Maintain access for fire-fighting equipment and access to fire hydrants.

E. Parking: Use designated areas of Owner's existing parking areas for construction personnel.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

- F. Storage and Staging: Use designated areas of Project site for storage and staging needs.
- G. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
  - 1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
  - 2. Remove snow and ice as required to minimize accumulations.
- H. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
  - 1. Identification Signs: Provide Project identification signs as indicated on Drawings.
  - 2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
    - a. Provide temporary, directional signs for construction personnel and visitors.
  - 3. Maintain and touch up signs, so they are legible at all times.
- I. Waste Disposal Facilities: Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- J. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Section 017300 "Execution."
- K. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
  - 1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.
- L. Temporary Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate.
- M. Existing Stair Usage: Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore stairs to condition existing before initial use.
  - 1. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If stairs become damaged, restore damaged areas, so no evidence remains of correction work.
- N. Temporary Use of Permanent Stairs: Use of new stairs for construction traffic will be permitted, provided stairs are protected and finishes restored to new condition at time of Substantial Completion.

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
  - 1. Where access to adjacent properties is required in order to affect protection of existing facilities, obtain written permission from adjacent property owner to access property for that purpose.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
  - 1. Comply with work restrictions specified in Section 011000 "Summary."
- C. Temporary Erosion and Sedimentation Control: Comply with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent and requirements specified in Section 311000 "Site Clearing."
- D. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
  - 1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant-protection zones.
  - 2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
  - 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
  - 4. Remove erosion and sedimentation controls, and restore and stabilize areas disturbed during removal.
- E. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- F. Tree and Plant Protection: Comply with requirements specified in Section 015639 "Temporary Tree and Plant Protection."
- G. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- H. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals, so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using materials approved by authorities having jurisdiction.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

- I. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people from easily entering site except by entrance gates.
  - 1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
  - 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to Owner.
  
- J. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each workday.
  
- K. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
  
- L. Temporary Egress: Provide temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction. Provide signage directing occupants to temporary egress.
  
- M. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
  - 1. Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures.
  
- N. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner and tenants from fumes and noise.
  - 1. Construct dustproof partitions with gypsum wallboard, with joints taped on occupied side, and fire-retardant-treated plywood on construction operations side.
  - 2. Construct dustproof partitions with two layers of 6-mil polyethylene sheet on each side. Cover floor with two layers of 6-mil polyethylene sheet, extending sheets 18 inches up the sidewalls. Overlap and tape full length of joints. Cover floor with fire-retardant-treated plywood.
    - a. Construct vestibule and airlock at each entrance through temporary partition with not less than 48 inches between doors. Maintain water-dampened foot mats in vestibule.
  - 3. Where fire-resistance-rated temporary partitions are indicated or are required by authorities having jurisdiction, construct partitions according to the rated assemblies.
  - 4. Insulate partitions to control noise transmission to occupied areas.
  - 5. Seal joints and perimeter. Equip partitions with gasketed dustproof doors and security locks where openings are required.
  - 6. Protect air-handling equipment.
  - 7. Provide walk-off mats at each entrance through temporary partition.

- O. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
1. Prohibit smoking in construction areas. Comply with additional limits on smoking specified in other Sections.
  2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition in accordance with requirements of authorities having jurisdiction.
  3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
  4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign, stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

### 3.6 MOISTURE AND MOLD CONTROL

- A. Moisture and Mold Protection: Protect stored materials and installed Work in accordance with Moisture and Mold Protection Plan.
- B. Exposed Construction Period: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
1. Protect porous materials from water damage.
  2. Protect stored and installed material from flowing or standing water.
  3. Keep porous and organic materials from coming into prolonged contact with concrete.
  4. Remove standing water from decks.
  5. Keep deck openings covered or dammed.
- C. Partially Enclosed Construction Period: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
  2. Keep interior spaces reasonably clean and protected from water damage.
  3. Periodically collect and remove waste containing cellulose or other organic matter.
  4. Discard or replace water-damaged material.
  5. Do not install material that is wet.
  6. Discard and replace stored or installed material that begins to grow mold.
  7. Perform work in a sequence that allows wet materials adequate time to dry before enclosing the material in gypsum board or other interior finishes.
- D. Controlled Construction Period: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
  2. Use temporary or permanent HVAC system to control humidity within ranges specified for installed and stored materials.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

3. Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water limits.
  - a. Hygroscopic materials that may support mold growth, including wood and gypsum-based products, that become wet during the course of construction and remain wet for 48 hours are considered defective and require replacing.
  - b. Measure moisture content of materials that have been exposed to moisture during construction operations or after installation. Record readings beginning at time of exposure and continuing daily for 48 hours. Identify materials containing moisture levels higher than allowed. Report findings in writing to Architect.
  - c. Remove and replace materials that cannot be completely restored to their manufactured moisture level within 48 hours.

3.7 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
  1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
  1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
  2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.
  3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 017700 "Closeout Procedures."

END OF SECTION 015000

SECTION 102800 - TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. DESCRIPTION OF WORK

1. Provide toilet accessories as scheduled at all toilets. Mirrors, soap dispensers, and towel dispensers may be required at locations other than toilets. See Drawing for limited to the following:
  - a. H.C. Robe Hook.
  - b. Robe Hooks.
  - c. Paper towel dispenser(single-fold towels).
  - d. Toilet tissue dispenser.
  - e. Grab bars and shower bars.
  - f. Soap dispenser (wall mount).
  - g. Sanitary napkin disposal (double and single sided).
  - h. Mop and broom holder.
  - i. Mirror (18"x30") and (18"x60").
  - j. Stainless steel large framed mirrors (96"x36").
  - k. Shower curtains and rod.
  - l. H.C. Folding shower seat.
  - m. Grab bars, (36" & 42").
  - n. Feminine Napkin Dispenser, double sided.
  - o. Feminine Napkin Dispenser, single side.
  - p. Feminine Napkin Dispenser (25 cents).
  - q. Shower Seat.
  - r. Medicine Cabinet.
  - s. Under Lavatory guards.
  - t. Electric hand dryers.
2. Provide paper towel dispenser and soap dispenser at every sink throughout the buildings, including classroom and office sinks. Paper towel dispensers are to dispense single-fold towels, no exceptions. Soap Dispensers are to be mounted above the lavatory or hand sink, no exceptions. Provide in location as directed by the Architect, if conflict occurs.

1.3 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.4 QUALITY ASSURANCE

- A. Inserts and Anchorages: Furnish inserts and anchoring devices which must be set in concrete or built into masonry; coordinate delivery with other work to avoid delay.
- B. Accessory Locations: Coordinate accessory locations with other work to avoid interference and to assure proper operation and servicing of accessory units.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Acceptable Manufacturers or equal:
  - 1. Manufacturer: Subject to compliance with requirements, provide toilet accessories by one of the following:
    - a. American Specialties, Inc.
    - b. Bobrick Washroom Equipment, Inc.
    - c. Bradley Corporation.
    - d. A & J Washroom Accessories.
    - e. GAMCO Specialty Accessories: a division of Bobrick

2.2 MATERIALS

- A. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating.
- B. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- C. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.



## 2.3 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.
- C. Only an unobtrusive stamped logo of manufacturer is permitted on exposed face of toilet or bath accessory units. On either interior surface not exposed to view or back surface, provide additional identification by means of either a printed, waterproof label or a stamped nameplate, indicating manufacturer's name and product model number.
- D. Secure mirrors to walls in concealed, tamperproof manner with special hangers, toggle bolts, or screws. Set units plumb, level, and square at locations indicated, in accordance with manufacturer's instructions for type of substrate involved.
- E. Install toilet accessory units in accordance with manufacturers' instructions, using concealed fasteners which are appropriate to substrate and recommended by manufacturer of unit. Install units plumb and level, firmly anchored with expansion bolts in locations indicated, both on the Drawings and in these Specifications.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

### 3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written instructions.

END OF SECTION 102800

SECTION 104399 - SIGNAGE

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 SUMMARY

- A. This Section includes the following:

- 1. Interior panel signs.
- 2. Service Identification Signs.

- B. Related Sections include the following:

- 1. Division 1 Section "Temporary Facilities and Controls" for temporary project identification signs.
- 2. Division 15 Section "Mechanical Identification" for labels, tags, and nameplates for mechanical equipment.
- 3. Division 16 Section "Electrical Identification" for labels, tags, and nameplates for electrical equipment.
- 4. Division 16 Section "Interior Lighting" for illuminated exit signs.

1.3 SUBMITTALS:

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of sign.
- B. Shop Drawings: Provide shop drawings showing individual sign types, graphics, type styles, background and foreground colors, sign dimensions and profiles. Include plans, elevations, and large-scale sections of typical members and other components. Show mounting methods, grounds, mounting heights, layout, spacing, reinforcement, accessories, and installation details.
  - 1. Provide message list for each sign, including large-scale details of wording, lettering, and braille layout.
  - 2. Provide full size spacing templates for individually mounted dimensional letters and numbers.
- C. Samples for Initial Selection: Provide a single unit sample of each sign type to verify colors, dimensions, profiles, finishes and methods of installation.
- D. Qualification Data: For Installer.

- E. Maintenance Data: For signage cleaning and maintenance requirements to include in maintenance manuals.
- 1.4 QUALITY ASSURANCE
- A. Manufacturer Qualifications: Sign manufacturer must have experience and be capable of manufacturing first quality architectural and American with Disabilities Act (ADA) signs of the type specified herein.
  - B. Installer Qualifications: Performed by installers specialized and experienced in work similar to that require for this project.
    - 1. Manufacturer / Supplier shall be responsible to provide installation in accordance with the requirements of these specifications including providing all fasteners and /or adhesives required. In the event of difference between these specifications and the manufacturer's recommendations, these specifications shall govern.
  - C. Source Limitations: Obtain each sign type through one source from a single manufacturer.
  - D. Regulatory Requirements: Comply with the Americans with Disabilities Act (ADA) and with code provisions as adopted by authorities having jurisdiction.
  - E. Product Options: Drawings indicate size, profiles, and dimensional requirements of post and panel signs and are based on the specific type and model indicated. Refer to Division 1 Section "Product Requirements".
    - 1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- 1.5 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION
- A. Signage shall conform with the Accessibility Requirements Manual from the Florida Department of Community Affairs, Florida Board of Building Codes and Standards.
- 1.6 PROJECT CONDITIONS
- A. Field Measurements: Where sizes of signs are determined by dimensions of surfaces on which they are installed, verify dimensions by field measurement before fabrication and indicate measurements on shop Drawings.
- 1.7 COORDINATION
- A. For signs supported by or anchored to permanent construction, advise installers of anchorage devices about specific requirements for placement of anchorage devices and similar items to be used for attaching signs.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

1. For signs supported by or anchored to permanent construction, furnish templates for installation of anchorage devices.

1.8 WARRANTY

- A. Fiberglass Panel Sign Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fiberglass panels that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:
  1. Coating degradation
  2. Chalking
  3. Fading
  4. Fiberglass delamination or cracking
- B. Warranty Period: 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. Permanent Room Designations / Panel Signs shall be manufactured by the following:
  1. Environmental Graphics, Inc. Odessa, FL, 800-791-5065
  2. Manufacturers submitted by Hillsborough County Sheriff's Office.

2.2 PERMANENT ROOM DESIGNATIONS / PANELS SIGNS

- A. General : Provide panel signs using manufacturer's process for producing raised copy, graphics and Braille that comply with the requirements of the ADA Accessibility Guidelines (ADAAG) and ICC / ANSI A117.1 / 98. Panel signs shall comply with the manufacturer's requirements indicated for materials, thickness, colors, design, shapes, sizes and details of construction.
  1. Provide panel signs to comply with applicable provisions of the ADA Accessibility Guidelines and ICC/ANSI A117.1/98 standards including, but not limited to, 0.031" raised tactile, graphics, text and Grade II Braille characters. Panel signs shall be constructed to remain flat under installed conditions and within a tolerance of plus or minus 0.015" when measured diagonally.
- B. Raised Graphics and Tactile Signs: Manufacturer's standard product as follows:
  1. Character Proportion : Letters and numbers on signs shall have a width to height ratio between 3:5 and 1:1 and stroke-width to height ratio between 1:5 and 1:10.
  2. Character Height: Characters and numbers on signs shall be sized according to the viewing distance from which they are to read. The minimum height is measured using an upper case "X". Use "UPPER CASE" characters only. Overhead projected wall signs or signs suspended from the ceiling shall have a minimum character height of 3".

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

3. Raised and Braille Characters & Pictorial Symbol Signs: Letters and numbers (tactile text) on signs shall be raised 1/32", upper case, sans or simple serif type or simple type and shall be accompanied with Grade II Braille, raised 1/32". Raised tactile text shall be at least 5/8" high, but no higher than 2". Pictograms, in minimum 6' x6' area, may be reverse engraved/subsurface and shall be accompanied by equivalent verbal description placed directly below the pictogram.
  - a. Panel signs with text and Braille that are NOT chemically welded (ie: adhesive mounted or glued graphics), will be considered unacceptable.
- C. Finish and Contrast: the characters and background of signs shall be eggshell, matte or other non-glare finish. Characters and symbols shall contrast with their background - either light characters on a dark background or dark characters on light background. Colors shall be chosen from the samples of "STANDARD" colors, patterns and surface textures submitted by the manufacturer.
- D. Provide tactile and raised graphics fabricated from the manufacturer's list of applicable modified acrylic polymers (MAP), suitable for indoor or outdoor use. Approved MAP Product Manufacturers are:
  - Rowmark  
Rowland, Inc.  
15 Massirio Drive  
Kensington, Connecticut 06037
  - New Hermes, Inc.  
2200 Northmont Pkwy.  
Duluth, Georgia 30136  
(800) 843-7637
- E. Panel signs shall be of consistent color with edges mechanically and smoothly finished to conform to manufacturer's standard requirements.
- F. Sign Fabrication: All Sign Manufacturers shall comply with the specified product and sign fabrication requirements.
  1. Signs shall be a minimum of 1/8" thick (not including raised characters), non-glare (matte) finished surface with straight edges free of saw marks or any other imperfections.
  2. Raised "TACTILE TEXT" shall be achieved by chemically welding 1/16" thick computer cut, colorfast MAP text characters into the 1/32" computer cut recessed area of the face of the base sheet. The text shall be chemically welded to the recessed surface of the base sheet using methylene chloride and shall, after fabrication, remain raised 1/32" above the face of the base sheet.
  3. Grade II Braille shall be achieved by pressing optically correct acrylic raster beads into .003 inch computer drilled holes in the base sheet surface. The acrylic raster beads shall be UV protected and shall be guaranteed against fading. Bordered, depressed Braille is NOT acceptable.
  4. Sign edges shall be eased and the corners shall have a 1/2" radius.
  5. Text style shall be HELVETICA MEDIUM upper case letters. Text height shall be 3/4" or as specified on the sign drawings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Verify that items, including anchor inserts, provided under other sections of work are sized and located to accommodate signs.
- C. Examine supporting members to ensure that surfaces are at elevations indicated or required to comply with authorities having jurisdiction and are free from dirt and other deleterious matter.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Locate signs and accessories where indicated, using mounting methods of types described and in compliance with manufacturer's written instructions.
  - 1. Install signs level, plumb, and at heights indicated, with sign surfaces free from distortion and other defects in appearance.
- B. Install interior signage in accordance with approved shop drawings, Accessibility Requirements Manual from the Florida Department of Community Affairs, and locations indicated on the Contract Documents.
- C. Inspect materials or equipment immediately upon delivery and again prior to installation. Reject damaged and defective items.
- D. Provide attachment and connection devices necessary for securing Work. Secure Work true to line and level. Allow for building expansion.
- E. Visual Effects: Provide uniform joint widths in exposed Work. Arrange joints in exposed Work to obtain the best visual effect. Refer questionable choices to the Architect for final decision.
- F. Recheck measurements and dimensions, before starting each installation.
- G. Isolate incompatible material as necessary to prevent deterioration.
- H. Mounting Heights: Where mounting heights are not indicated, install individual components at standard mounting heights recognized within the industry for the particular application indicated. Refer questionable mounting height decisions to the Architect for final decision.
  - 1. Mounting Height: Mount accessible signage at 60 inches above finished floor to the center line of the sign.
- I. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using methods indicated below:

HILLSBOROUGH COUNTY SHERIFF'S OFFICE -  
PINEBROOKE BUILDING 4 INTERIOR RENOVATION

1. Mechanical Fasteners: Mount interior signage with concealed mechanical fasteners recommended by the manufacturer.

3.3 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

3.4 SCHEDULE-ROOM IDENTIFICATION SIGNS

- A. Provide Handicapped Symbol Signs, "Fire Extinguisher Inside" signs, "Fire Alarm Pull Station Inside" signs, "Maximum Occupancy =" signs and other miscellaneous signs as required.

END OF SECTION 104399