
CITY OFFICES RENOVATION

CITY OF GROVE
GROVE, OKLAHOMA

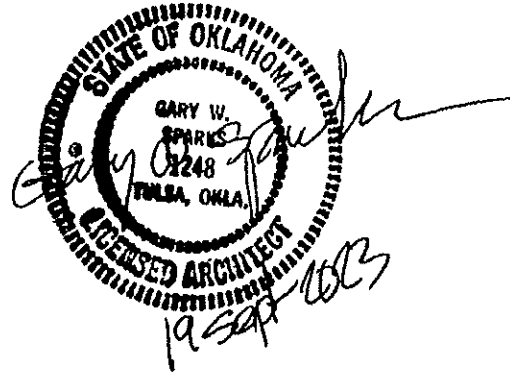
PROJECT SPECIFICATIONS MANUAL

DATE: 9-18-23



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PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Code and Regulation Compliance
- B. OSHA Compliance

1.03 CODES AND REGULATIONS

- A. The Work shall comply with applicable Federal, State and County codes and regulations.
- B. Primary Codes and Regulations:

International Building Code 2018 Edition
ICC ANSI A117.1 2009 Edition
International Fuel Gas Code 2018 Edition
International Mechanical Code 2018 Edition
International Plumbing Code 2018 Edition
International Fire Code 2018 Edition
National Electrical Code 2020 Edition

1.04 OSHA COMPLIANCE

Comply with Federal and State of Oklahoma OSHA requirements.

PART 2 – PRODUCTS

Not applicable to this Section.

PART 3 – EXECUTION

Not applicable to this Section.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Referenced Applicable Standards
- B. Definitions
- C. Abbreviations

1.03 REFERENCED APPLICABLE STANDARDS

- A. **Applicability of Referenced Standards:** For products or workmanship specified by Association, trade or Federal standard comply with requirements of the referenced standard, except when more rigid requirements are specified or are required by the Specifications, Drawings or applicable codes. Referenced standards have the same force and effect as if bound or copied directly into the Contract Documents. Referenced standards are a part of the Contract Documents.
- B. **Publication Dates:** Where the date of issue of a referenced standard is not specified, comply with the standard in effect as of bid or installation date.
- C. Upon request by Architect, the Construction Manager or General Contractor shall provide at project site a copy of referenced standard(s) referred to in the Specifications. Standards are to be maintained in the project office library for use by the Architect and Architect's consultants.
- D. **Conflicting Requirements:** Where compliance with two or more standards is specified, and the standards establish different or conflicting requirements for minimum quantities or quality levels. The higher quantity or higher quality is to be used.
- E. **Minimum Quantity or Quality Levels:** The quantity or quality level called for in the standard shall be the minimum to be provided and/or performed.

1.04 DEFINITIONS

- A. **Approved:**
 - 1. Where "Approved" is used in conjunction with the Architect/Engineer's response to Submittals by the Construction Manager or General Contractor, the term will be held to limitations of the Architect/Engineer's responsibilities and duties as specified in the General Conditions of the Contract. In no case will the Architect/Engineer's approval be interpreted as a release of the Contractor from responsibilities to fulfill requirements of the Contract Documents.
 - 2. "Approved", "As Directed", "Acceptable", "Rejected" or others of similar meaning which authorize any exercise of judgment shall be distinctly understood to mean that such power to direct, accept, reject, and approve shall be vested only in the Owner, Architect and/or Project Engineers.
- B. **Building:** Includes structure, mechanical systems, electrical system and plumbing system.
- C. **Casework Surfaces:**
 - 1. **Exposed Casework Surfaces:** Refer to WI Manual of Millwork Standards, Section 15, Casework Definitions, unless otherwise specified.
 - 2. **Semi-Exposed Casework Surfaces:** Refer to WI Manual of Millwork Standards, Section 15, Casework Definitions, unless otherwise specified.
 - 3. **Concealed Casework Surfaces:** Refer to WI Manual of Millwork Standards, Section 15, Casework Definitions, unless otherwise specified.
- D. **Directed:** This term and others, such as requested, authorized, selected, approved, required and permitted means directed by the Architect, requested by the Architect, and similar phrases, unless otherwise indicated. However, no such implied meaning will be interpreted to extend Architect responsibility into Contractor's area of supervision.

- E. Drawings: The drawing and details portion of the Contract Documents.
- F. F.B.O. or FBO: Where the "F.B.O." or "FBO" is noted on the Drawings or listed in the Specifications such item is shown or listed for information and will be "Furnished by Owner" and installed by Contractor. The Contractor shall verify dimensions and details necessary for the proper installation of this item.
- G. Furnish: Except as otherwise defined in greater detail, the term "furnish" is used to mean, "supply and deliver to the Site, ready for unloading, unpacking, assembly, installation, and similar operations", as applicable in each instance.
- H. Indicated: This term refers to graphic representations, notes, or schedules on the Drawings, or other paragraphs or Schedules in the Specifications, and similar requirements in the Contract Documents. Terms such as "shown, noted, scheduled; and specified", are used to help the reader locate the reference. Location is not limited.
- I. Install: Except as otherwise defined in greater detail, the term "install" is used to describe operations at Site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations," as applicable in each instance.
- J. Installer: The Contractor or another entity engaged by the Contractor, either as an employee, subcontractor, or contractor of lower tier, to perform a particular construction activity, including installation, erection, application, and similar operations. Installers are required to be experienced in the operations they are engaged to perform.
 - 1. The term experiences, when used with the term installer, means having a minimum of 5 previous projects similar in size and scope to this Project, complied with requirements of the authority having jurisdiction.
 - 2. Trades: Using terms such as carpentry does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as carpenter. It also does not imply that requirements specified apply exclusively to trades persons of the corresponding name.
 - 3. Assigning Specialists: Certain Sections of the Specifications require that specific construction activities shall be performed by specialists who are recognized experts in those operations. The specialists must be engaged for those activities, and their assignments are requirements over which the Contractor has no option. However, the ultimate responsibility for fulfilling Contract requirements remains with the Contractor.
 - a. This requirement shall not be interpreted to conflict with enforcing building codes and similar regulations governing the Work. It is also not intended to interfere with local trade union jurisdictional settlements and similar conventions.
- K. Materials: Materials incorporated in the Project or used or consumed in the performance of the Work.
- L. N.I.C.or NIC: Where the indication "N.I.C." or "NIC" is noted on the Drawings or listed in the Specifications, such item is shown or listed for the purpose of general information and is not in the Contract or Work. Installation and connection to services for such work are not in the Contract.
- M. Owner: City of Grove, Grove, Oklahoma.
- N. Project: The total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner or by separate contractors.
- O. Provide: The term "Provide" means "to furnish and install, complete and ready for intended use", as applicable in each instance.
- P. Refurbish: The term "Refurbish" means to modernize, renovate or restore a item or product to a like-new condition.
- Q. Regulations: This term includes laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, as well as rules, conventions, and agreements within the construction industry that control performance of the Work.

SECTION 01120
REFERENCED APPLICABLE STANDARDS, DEFINITIONS
AND ABBREVIATIONS

- R. Responsible: A bidding party possessing the skill, judgment, integrity, experience and financial ability necessary to timely perform and complete the Project or work being bid or performed.
- S. Similar: Shall be taken in it's general sense and not meaning identical, and details of such work shall be in proper relation to the location and connection of other parts of the Work.
- T. Site: Construction Site or Project Site is the space available to the Construction Manager or General Contractor for performing construction activities, either exclusively or in conjunction with others performing other work as part of the Project. The extent of the Site is shown on the Drawings and may or may not be identical with the description of the land on which the Project is to be built.
- U. Specifications: That portion of the Contract Documents consisting of the written requirements for products, materials, equipment, construction systems, standards and workmanship for the Work.
- V. Testing Agencies: A testing agency is an independent entity engaged to perform specific inspections or tests, and to report on and, if required, to interpret results of those inspections or tests.
- W. Work: The construction and services required by the Contract Documents.

1.05 ABBREVIATIONS

Trade Association Name Abbreviations: Trade association names and titles of Applicable Standards are sometimes abbreviated or used in acronym form. When such abbreviations or acronyms are used in the Drawings or Specifications, they mean the recognized name of the trade association, standards generating organization, authority having jurisdiction, or other entity applicable to context of the text provision.

Not applicable to this Section.

PART 3 – EXECUTION

Not applicable to this Section.

END OF SECTION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

Work Includes: Relationship of the Drawings and Specifications.

1.03 RELATIONSHIP OF THE DRAWINGS AND SPECIFICATIONS

- A. The Drawings and Specifications are intended to be complementary. What is required by one shall be as if required by both.
- B. In the event of a possible conflict between two Drawings or between a Drawing and Specification item the Drawing or Specification calling for the greater quantity, higher quality and/or greater extent shall govern.

PART 2 – PRODUCTS

Not applicable to this Section.

PART 3 – EXECUTION

Not applicable to this Section.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Compliance with 2018 International Building Code (IBC) Chapter 17.
- B. Schedule of Required Concrete Compression Testing.
- B. Approved Testing Laboratories.

1.03 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17 REQUIREMENTS

- A. Provide all testing and inspections required by IBC Chapter 17.
- B. Provide testing and inspections required by IBC Table 1705.3 Required Special Inspections and Tests of Concrete Construction.
- C. Provide testing and inspections required by IBC Table 1705.6 Required Special Inspections and Tests of Soils.

1.04 SCHEDULE OF REQUIRED CONCRETE COMPRESSION TESTING

Canopy: 4 cylinders minimum per 50 cubic yards of concrete placement.

Conduct compression tests on 2 cylinders at 7 days and 2 cylinders 28 days.

1.05 APPROVED TESTING LABORATORIES

Aimright Testing and Engineering, LLC Tulsa, OK

Terracon, Tulsa, OK

1.06 TESTING LABORATORY REPORTS

Submit copies of Concrete Compression Test Report to:

General Contractor.

Architect.

PART 2 – PRODUCTS

Not applicable to this Section.

PART 3 – EXECUTION

Not applicable to this Section.

END OF SECTION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Submittal General Requirements
- B. Construction Manager or General Contractor review of Submittals.
- B. Architect review of Submittals.

1.03 GENERAL REQUIREMENTS

- A. Submittals shall be made in accordance with requirements specified in this Section and in specific Specification Sections.
- B. Timing of Submittals: Make Submittals sufficiently in advance of construction activities to allow shipping, handling and review by the Architect and the Architect's Engineer consultants.
- C. Changes in Work: Changes in the Work shall not be authorized by Submittal review action. No review action or comment shall be interpreted to be an authorized change in the Work.

1.04 PRODUCT LITERATURE SUBMITTALS

- A. Manufacturer's Product Literature: (Catalog Cuts) including illustrations, diagrams, material characteristics, color and pattern selection options, test data and listing by nationally recognized testing and inspection service, installation instructions and recommendations, and other information to illustrate the Product. Where applicable submit Safety Data Sheet (SDS).
- B. Modifications to Product Literature: If necessary modify manufacturer's Product Literature to indicate exact conditions of the Project.

1.05 SHOP DRAWING SUBMITTALS

- A. Shop Drawings: Drawings, diagrams, schedules and other graphic depictions to illustrate fabrication and installation of a portion of the Work.
- B. Show all field dimensions and relationships to adjacent or critical features of the Work.

1.06 PRODUCT SAMPLES AND COLOR CHART SUBMITTALS

- A. Product Samples: Physical samples that demonstrate the material, finish, feature, workmanship and other characteristics of a product or portion of the Work.
- B. Color Chart: Printed reproductions of product colors or actual samples of Product colors. Provide full color chart of all colors available.
- D. Accepted Samples shall serve as quality basis for evaluating the Work.
- E. The Architect will not issue Color Selections until all Color Chart samples are received.

1.07 CONSTRUCTION MANAGER OR GENERAL CONTRACTOR REVIEW OF PRODUCT LITERATURE AND SHOP DRAWING SUBMITTALS

- A. The Construction Manager or General Contractor shall review and approve Submittals for completeness and conformance to requirements of the Contract Documents prior to submission of the Submittal to the Architect. By approving the Submittal the Construction Manager or General Contractor represents that he/she has determined and verified materials, field measurements and field construction related criteria and

that he/she has checked and coordinated the information contained within the Submittal with the requirements of the Work and the Contract Documents.

- B. The Construction Manager or General Contractor shall stamp the front page of each Submittal. Stamp to contain Construction Manager or General Contractor's name, review date and indicate approval of Submittal or approval of Submittal with notations.
- C. In the event where the Architect receives a Submittal without the Construction Manager or General Contractor review stamp the Submittal will be returned to the Construction Manager or General Contractor without review.

1.08 SUBMITTAL REVISIONS

Should Product Literature and/or Shop Drawing resubmission of Submittal be required revise the Submittal as necessary and resubmit. Indicate all revisions on the revised Submittal.

1.09 AS-BUILT DRAWINGS SUBMITTAL

Refer to requirements specified in Required Submittals – Section 01550.

The Construction Manager, General Contractor and MEP Subcontractors shall record all changes made in and to the Work on two (2) full size Drawing prints including those made by RFI, Change Order and Architect's Supplemental Instructions (ASI).

The Construction Manager or General Contractor shall transfer the As-Built Drawings to the Architect within not to exceed thirty (30) days after the date of Substantial Completion.

1.10 OPERATION AND MAINTENANCE MANUAL SUBMITTALS

- A. Refer to requirements specified in Required Submittals – Section 01550 and specific Specification Sections.
- B. The Construction Manager or General Contractor shall collect and assemble the Operational and Maintenance Manuals into one 3-ring binder labeled on binding and cover:

Wolf Creek Wildlife Event Center
Operation and Maintenance Manuals

The Construction Manager or General Contractor shall deliver the 3-ring Operation and Maintenance Manual binder to the Owner with thirty (30) calendar days of the date of Substantial Completion.

1.11 GARANTEES AND WARRANTIES SUBMITTAL

- A. Refer to requirements specified in Required Submittals – Section 15500 and specific Specification Sections.
- B. The Construction Manager or General Contractor shall collect and assemble the Guarantees and Warranties into one 3-ring binder labeled on binding and cover:

Wolf Creek Wildlife Event Center
Guarantees and Warranties
Effect Start Date: (Insert date of Substantial Completion)

The Construction Manager or General Contractor shall deliver the 3-ring Guarantees and Warranties binder to the Owner with thirty (30) calendar days of the date of Substantial Completion

1.12 SUBMITTAL TRANSFER METHODS

- A. Product Literature and Shop Drawings: Email transfer to Architect.
- B. Samples and Charts: Mail or hand delivery to Architect.

- C. As-Built Drawings: Mail or hand delivery to Architect.
- D. Operation and Maintenance Manuals: 3-Ring Binder hand delivery to the Owner
- E. Guarantees and Warranties: 3-Ring Binder hand delivery to the Owner.

PART 2 – PRODUCTS

Not applicable to this Section.

PART 3 – EXECUTION

Not applicable to this Section.

END OF SECTION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

A. Work Includes: List of required Submittals. Specification Sections may require additional Submittals.

B. Related Work:

1. Submittal Requirements – Section 01500.
2. Specification Sections.

1.03 REQUIRED SHOP DRAWING SUBMITTALS

Canopy.

Building Signs.

1.04 REQUIRED COLOR CHART SAMPLE SUBMITTALS

Paint.

Toilet Floor and Wall Tile.

Toilet Tile Grout.

Building Signs.

Plastic Laminate (Reception Counter)

1.05 REQUIRED GUARANTEES AND WARRANTIES

Grinder Pump Station.

Overall Project.

1.06 MAINTENANCE MATERIALS

Floor and Wall Tile.

1.07 SPARE PARTS

Grinder pump core complete with control level sensor, check valve, anti-siphon valve, pump motor unit and grinder.

PART 2 – PRODUCTS

Not applicable to this Section.

PART 3 – EXECUTION

Not applicable to this Section.

END OF SECTION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. This Specification Section establishes procedures for specified product options and the submittal of Substitutions.
- B. The intent of this Specification Section is to insure that specified product options and proposed Substitutions are to equal or superior to the quality of the specified products.

1.03 PRODUCT OPTIONS

Where product options are included in the Specification Sections and are specified by naming more than one, or several approved manufacturers, products or materials, any manufacturer, product or material listed may be selected.

1.04 PRODUCT SUBSTITUTIONS

Should a subcontractor or supplier wish to substitute a product that is considered equal or superior to a product specified, submit Substitution Request. See Section 01610 – Substitution Request Form.

1.05 SUBSTITUTION REQUEST REQUIREMENTS

- A. Provide support documentation for each Substitution Request to show the proposed product or material is equal or superior to the product or material specified. Provide the following:
 - 1. Product manufacturer's name, product literature, and performance and test results.
 - 2. Product Warranty (If Applicable).
 - 3. Samples (If Applicable).
- B. Submit Substitution Request Form enclosed at the end of this Specification Section along with support documentation.
- C. Refer to Submittal Procedures – Section 01330.

PART 2 – PRODUCTS

Not Applicable to this Section.

PART 3 – EXECUTION

Not Applicable to this Section.

END OF SECTION

SUBSTITUTION REQUEST FORM

PROJECT: _____

DATE: _____

PROPOSED SUBSTITUTION: _____

We request consideration of the attached information and data. The attached information and data includes product description, specifications, drawings, photographs, and performance and test information for evaluation of this Substitution Request. Applicable portions of the information and data are clearly identified. The attached information and data also includes description of the changes to the Drawings, if any, which will be required to accommodate the proposed Substitution.

SUBMITTED BY:

Company Name: _____

Address: _____

Email Address: _____

Telephone: _____

By (Printed Name): _____

Signature: _____

Date: _____

REVIEW

- _____ Accepted
- _____ Accepted As Noted
- _____ Not Accepted
- _____ Received Too Late

By: _____

Date: _____

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes:
 - 1. Cleaning General Requirements.
 - 2. Final Cleaning.
- B. Related Work: See specific Specification Sections.

PART 2 - PRODUCTS

2.01 CLEANING PRODUCTS

Use cleaning materials and methods recommended by manufacturer of surface to be cleaned.

PART 3 - EXECUTION

3.01 CLEANING GENERAL REQUIREMENTS

- A. Provide periodic cleaning to keep site, work and adjacent properties free from accumulations of waste materials, debris and rubbish resulting from construction operations.
- B. Remove waste materials, debris, and rubbish periodically and dispose of off-site. No on-site disposal or burial is permitted.
- C. Do not discharge volatile, oil-based, harmful or dangerous products or materials into the sanitary or storm drain systems.
- D. Do not burn waste material, debris or rubbish on site.

3.02 FINAL CLEANING

- A. Refer to Cleaning – Section 01700 and Project Closeout – Section 01800.
- B. Comply with cleaning product manufacturer's instructions and recommendations.
- C. Clean all interior and exterior building exposed to view surfaces including inside of casework cabinets and drawers. Remove grease, mastic, adhesives, dust, dirt, paint overspray, stains, fingerprints and foreign materials.
- C. Remove all labels including label adhesive.
- D. Clean all plumbing fixtures and flush valves.
- E. Clean all Toilet Accessories.
- F. Clean all glazing and mirrors.
- G. Polish glossy surfaces to a clear, bright shine.
- H. Vacuum all carpet.
- I. Wipe 4" resilient base clean with damp cleaning cloth.

- J. Remove all fasteners, sheet metal and foreign material from roofs. Remove all foreign material and debris from roof drains and roof overflow drain strainers.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

Works Includes: Required Guarantees and Warranties.

1.03 REQUIRED GUARANTEES

Grove City Offices Project – One year.

1.04 GUARANTEE FORM

Use Guarantee Form in Section 01810.

1.05 GUARANTEE AND WARRANTIES START DATE

Start date of Guarantees and Warranties to be set at date of Substantial Completion.

END OF SECTION

GUARANTEE

We, the Contractor guarantee that the _____

herein known as the "Work" which we furnished and installed at _____

was furnished and installed in accordance with the Drawings and Specifications and the Work will fulfill its' intended purpose(s) for a period of ____ year(s) from the date of acceptance of the Work by the Owner. We agree to repair or replace any portion of the Work that proves to be defective in material and/or workmanship within the ____ year(s) Guarantee period. Damage by unusual abuse is not covered by this Guarantee.

In the event we fail to repair or replace defective work within thirty (30) calendar days after being notified in writing by the Owner of the defective work within the Guarantee period we authorize the Owner to proceed with having defective work repaired or replaced. We agree to pay for the cost of these repairs or replacements.

Contractor's Company Name

Contractor's Company Address

Signature of Company Owner or Authorized Representative

Date

Printed Name of Company Owner or Authorized Representative

Company Representative to be contacted for service:

Name: _____

Email Address: _____

Telephone Number: _____

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY

- A. Work Includes: Grinder Pump Station.
- B. Related Work: Plumbing and Electrical.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 SUBMITTALS

- A. Refer to Section 01500 - Submittals Requirements.
- B. Closeout Submittal: 2 copies of Operation and Maintenance Data.

1.05 WARRANTY

Provide one year manufacturer's warranty against defects in materials and workmanship.

PART 2 - PRODUCTS

2.01 GRINDER PUMP STATION

- A. Manufacturer and Product: Environment One Corporation, G Series Grinder Pump Station with wired level sensor.
- B. Disconnect: 6P electrical quick disconnect.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install grinder pump station in accordance with manufacturer's product instructions and recommendations.
- B. Securely install grinder pump station in ground.
- C. Provide plumbing and electrical connections.

3.02 START-UP AND FIELD TESTING

The manufacturer shall provide services of a qualified factory trained technician(s) who shall inspect the placement and wiring of the installed station, perform field tests as specified herein and instruct the Owner's personnel in the operation and maintenance of the equipment before the grinder pump station is accepted by the Owner.

All equipment and materials necessary to perform the testing shall be the responsibility of the installing Contractor.

Upon completion of the installation the qualified factory trained technician(s) shall perform the following tests:

1. Make certain the discharge shut-off valve in the station is fully open.
2. Turn on the alarm power circuit and verify the alarm in functioning properly.

3. Turn on the pump power circuit. Initiate the pump operation to verify the automatic on/off controls are operative. The pump should immediately turn on.
4. Consult the manufacturer's manual for detailed start-up procedures.

Upon complete of the Start-Up and Field Testing the manufacturer shall submit to the Owner the start-up Authorization Form describing the results in the tests performed. Final acceptance of the grinder pump station will not occur until the Authorization Form has been received by the Owner and all deficiencies corrected.

3.03 SPARE CORE

The manufacturer shall supply one spare grinder pump core complete with control level sensor, check valve, anti-siphon valve, pump motor unit and grinder to the Owner.

3.04 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes:
 - 1. Canopy Footings.
 - 2. Canopy Column Concrete Pads.
- B. Related Work:
 - 1. Testing and Inspections – Section 01300.
 - 2. Steel Reinforcement - Section 03200.

1.03 APPLICABLE STANDARDS

- A. American Concrete Institute (ACI) 301 Specifications for Structural Concrete, latest edition.
- B. American Concrete Institute (ACI) 302.1R Guide for Concrete Floor and Slab Construction, latest edition.
- C. American Concrete Institute (ACI) 318 Building Code Requirements for Structural Concrete, latest edition.
- D. ASTM C618 – Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete, latest edition.

1.05 CONCRETE COMPRESSION TESTING

Provide concrete compression testing as required by Testing and Inspections – Section 01300.

PART 2 – PRODUCTS

2.01 CONCRETE MIX DESIGNS

- A. Canopy Footings:
 - 1. Strength: 3,000 PSI mix at 28 days.
 - 2. Fly Ash Content: 40% minimum Type C fly ash cement content by weight. Fly ash content may be reduced or waived in cold weather condition(s).
 - 3. Slump: 4" maximum typical.
- B. Canopy Columns Concrete Pads:
 - 4. Strength: 3,000 PSI mix at 28 days with air-entrainment.
 - 5. Fly Ash Content: 40% minimum Type C fly ash cement content by weight. Fly ash content may be reduced or waived in cold weather condition(s).
 - 6. Slump: 4" maximum typical.

2.02 ADMIXTURES

- A. Inclusion of additional admixtures in concrete mix is at Contractor's option.
- B. Admixtures shall comply with the following:
 - 1. Comply with ASTM C260 and ASTM C494.
 - 2. Comply with ACI 301 and ACI 310.

PART 3 - EXECUTION

3.01 CONCRETE TESTING

Refer to Section 01400 – Testing and Inspections.

3.03 STEEL REINFORCEMENT

Refer to Section 03200 – Steel Reinforcement

3.04 FORM SCREEDS FOR SLABS AND FLATWORK

Set and securely support screeds accurately to lines, levels and grades required for finished elevations.

3.05 CONCRETE FINISHING

Canopy Columns Concrete Pads: Match finish of adjacent sidewalk.

3.06 CONCRETE CURING COMPOUND

A. Comply with ACI 318, Section 5.11.

B. Application:

1. Apply liquid curing compound to Canopy Columns Concrete Pads.
2. Apply liquid curing compound per product manufacturer's written instructions and recommendations.

3.09 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes:
 - 1. Steel Reinforcing Bars.
 - 2. Tie Wire.
- B. Related Work: Cast-in-Place Concrete – Section 03100.

1.03 APPLICABLE STANDARDS

- A. Concrete Reinforcing Steel Institute, CSRI Manual of Standard Practice, latest edition.
- B. Concrete Reinforcing Steel Institute, CSRI 63 - Recommended Practice for Placing Reinforcing Bars, latest edition.
- C. Concrete Reinforcing Steel Institute, CSRI 65 - Recommended Practice for Placing Bar Supports, Specifications and Nomenclature, latest edition.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Handle and store materials to prevent damage to materials.
- B. Store reinforcement on wood skids to prevent contact with ground or standing water.

PART 2 – PRODUCTS

2.01 STEEL REINFORCEMENT

Reinforcing Bar: Deformed, Grade 60.

2.02 TIE WIRE

Annealed steel, 16 gauge.

PART 3 - EXECUTION

3.01 STEEL REINFORCEMENT SURFACE CONDITION

Installed steel reinforcement to be free of coatings and foreign material.

3.02 CONCRETE REINFORCING ASSEMBLY AND INSTALLATION

- A. General: Comply with referenced CRSI Standards.
- B. Assembly:
 - 1. Fabricate and assembly steel reinforcing in lengths and configurations required.
 - 2. Do not bend or straighten bars in a manner which will injure the reinforcing material.
 - 3. Do not re-bend steel reinforcing bars.
 - 4. Do not heat steel bar reinforcing for bending.
- C. Splices and Laps of Reinforcing Bars:
 - 1. Splices to occur at locations called out on the Structural Drawings or as required by ACI standards.
 - 2. Provide reinforcing bar laps at corners and intersections.
 - 3. Minimum Lap Distance: 40 bar diameters, but not less than 24".

4. Wire tie splices and laps securely together.

D. Clearances at Reinforcing Bars: Maintain following minimum clear distances between reinforcing bars and earth or form surfaces unless otherwise noted on the Structural Drawings or as required by ACI.

1. Footing and foundation reinforcing bars at earth surfaces: 3".
2. Wall reinforcing bars at earth surfaces: 1-1/2".
3. Footings, foundation and wall reinforcing bars at form surfaces: 1-1/2".
4. Column reinforcing bars at form surfaces: 1-1/2".

3.03 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENT

Division 1 General Requirements applies to this Section.

1.02 SUMMARY

- A. Work Includes:
 - 1. Metal studs and track.
 - 2. Attachment clips, angles and connectors.
 - 3. Fasteners.
 - 4. In-wall backing.
- B. Related Work:
 - 1. Rough Carpentry – Section 06100 (In-Wall Backing).
 - 2. Gypsum and Cement Backer Board – Section 09250.
 - 3. Toilet Accessories – Section 10800.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

- A. ASTM C1002-10 - Steel Drill Screws for Application of Gypsum Board to Light Gauge Steel Studs.
- B. SSMA - Steel Stud Manufacturer's Association.

1.05 DESIGN LOADING REQUIREMENTS

Interior walls shall be installed to withstand a 5 pounds per square foot loading with maximum deflection of L/240 for gypsum board walls and L/360 for walls with ceramic or porcelain tile.

1.06 DELIVERY, STORAGE AND HANDLING

Do not bend stud framing materials. Store inside enclosed building off floor slab. Keep clean.

PART 2 - PRODUCTS

2.01 APPROVED STUD AND TRACK MANUFACTURERS

- A. ClarkDietrich Building Systems, West Chester, OH.
- B. Member of the SSMA, Steel Stud Manufacturer's Association.

2.02 FRAMING MATERIALS

- A. Interior Metal Studs:
 - 1. 50 ksi steel with G40 finish per ASTM C645-14.
 - 2. Sizes: 3-5/8" and 6".
 - 3. Gauges: 20 and 25 gauge.
 - 4. Refer to Drawings for sizes.
- B. Metal Track Standard:
 - 1. Material, gauge and finish to match studs.
 - 2. Track height: 1-1/2".
- C. Attachment clips, angles and connectors: Material, gauge and finish to match studs

- D. Screws: Self-drilling, self-tapping fasteners as approved by stud and track manufacturer for type of connection to be executed.
- E. Powder-Driven Shot Pins Floor Attachment: Hilti, Inc. Type X-U, 0.16" diameter X 1-1/4" long.

2.03 IN-WALL BLOCKING

2 X 4 #2 Douglas Fir-Larch.

PART 3 - EXECUTION

3.01 ERECTION

- A. General: Lay out framing as indicated on the Drawings and anchor to floor and structure.
- B. Stud Framing:
 - 1. Install bottom track on clean and level concrete.
 - 2. Install studs at 16" on center. Studs shall be seated squarely in the track with the stud web and stud flanges fully abutting the track web at bottom and top tracks Studs to set be plumb and aligned. Provide screw fastener at each stud on both flanges of the upper and lower tracks.
 - 3. At interior doors provide double stud king studs at both door jambs. Screw studs together at 24" on center.
 - 4. Provide double stud control joints. At control joints in fire-rated partitions provide double stud with doubled Type X gypsum board installation per USG System Folder SA-923. Refer to the Drawings for control joint locations.
 - 5. At wall openings larger than 6" provide studs at top, bottom and sides of opening.
 - 6. Provide and install galvanized sheet metal clips, angles and connectors required to firmly and securely attach stud framing to building.
 - 7. All stud framing to be securely and firmly attached to the building structure.
- C. Slotted Deflection Track:
Provide slotted top of wall deflection track where stud wall connects to roof purlins.
- D. Backing:
 - 1. Install backing level and aligned. Attach backing to each stud with 2 - #8 pan head screws.
 - 2. Install backing at the following locations:
 - Grab bars connection to wall.
 - Wall mounted door stops.
 - Other specification items required backing.

3.02 ADJUSTMENT

Studs or track which are bent, twisted, out-of-line or damaged are to be replaced.

3.03 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY

- A. Work Includes: Steel Canopy.
- B. Related Work: Section 09900 – Painting.

1.03 APPLICABLE STANDARDS

- A. ASTM A36, latest edition - Standard Specification for Carbon Structural Steel
- B. ASTM A500, latest edition - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing
- C. ASTM A123, latest edition – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- D. AISC Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings including Commentary and Supplements, latest edition.
- E. AWS D1.1 Structural Welding Code, latest edition.
- F. SSPC, Society of Protective Coating Standards, latest edition.

1.04 QUALITY ASSURANCE

- A. Qualifications of Welders:
 - 1. All welding work to be done by qualified welders.
 - 2. Welder Qualification: Per "Qualification Procedure" of American Welding Society (AWS).
- B. Erection Bracing, Shoring, Scaffolding and Protection: The Contractor shall be solely responsible for all items, and construct and maintain items to safely support all loads.

1.05 SUBMITTALS

- A. Refer to Section 01500 – Submittal Requirements.
- B. Shop Drawings for all roof panels, framing and columns.
 - 1. Provide fully dimensioned plans, elevations and details.
 - 2. Indicate types, profiles and sizes of all steel items.
 - 3. Indicate attachment methods and fastener types.
 - 4. Indicate welded connections using standard AWS A2-0 welding symbols. Indicate weld sizes, weld lengths and spacings.

1.06 WEATHER CONDITIONS

- A. Do not weld when outdoor temperature is below 32°F or when steel surfaces are wet.
- B. Do not weld in mist, rain, snow or high wind conditions.

PART 2 – PRODUCTS

2.01 STEEL ITEMS

- A. General: Use only products which are smooth and free of surface blemishes including pitting, seam marks, roller marks, rolled trade names and roughness.

- B. Steel Shapes, Plates and Angles: ASTM A36.
- B. Steel Pipe: ASTM A53.
- C. Steel Tubing: ASTM A500 Grade B.

2.02 CANOPY ROOF

26 gauge PBR Panel, factory painted, exposed fasteners.

2.03 CANOPY SOFFIT

12" wide X 24 gauge A12 beaded panel. Color: White.

2.04 WELDING MATERIALS

AWS D1.1. Type required for materials being welded.

2.05 FABRICATION

- A. Assembly:
 1. Use materials of size and thickness shown on the Drawings, if not shown, as required to produce strength and durability in finished product for use intended.
 2. Form work true to line and level with accurate angles and surfaces and straight sharp edges. Ease exposed edges to a radius of approximately 1/32 inch unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
 3. Weld corners and seams continuously, complying with AWS recommendations. At exposed connections, grind exposed welds smooth and flush to match and blend with adjoining surfaces.
 4. Form exposed connections with hairline joints, flush and smooth.
 5. Provide for anchorage of type shown, coordinated with supporting structure. Fabricate and space anchoring devices to provide adequate support for intended use.
 6. Cut, reinforce, drill and tap steel fabrications as indicated on the Drawings or as required to accommodate field installed anchors
 7. Fabricate joints which will be exposed to weather in a manner to exclude water or provide weep holes where water may accumulate.
- B. Miscellaneous Steel Framing and Supports: Provide miscellaneous steel framing and supports as required to complete the fabrications.

2.07 SHOP PRIMING

- A. Clean surfaces of rust, scale, grease and foreign matter prior to finishing.
- B. Shop Primer:
 1. Fabricator's standard universal primer. Color: Gray.
 2. Shop prime all steel fabrications except galvanized steel and steel to be encased in concrete or masonry.
 3. Apply primer at a rate to provide dry film thickness of 3.0 to 4.0 mils. Use priming methods which result in full coverage of joints, corners, edges and exposed surfaces.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine and inspect portions of the building which are to receive the work of this Specification Section.
- B. All issues and deficiencies are to be resolved prior to the commencement of the work of this Specification Section.

3.02 PREPARATION

- A. Field Measurements: Take field measurements prior to preparation of Shop Drawings and fabrication.
- B. Coordinate and furnish anchors including setting drawings, templates and instructions, for installation of anchorage such as concrete inserts, sleeves, anchor bolts and miscellaneous items having integral anchors, which are to be embedded in concrete or CMU construction.

3.03 INSTALLATION

- A. Provide temporary bracing and shoring to safely support all loads during construction.
- B. Install items plumb and level, tightly fitted with a maximum deviation of 1:200.
- C. Provide and install anchorage devices and fasteners where necessary for securing steel fabrications to in-place construction.
- D. Perform cutting, drilling and fitting required for installation of steel fabrications. Fit exposed connections accurately together to form tight hairline joints.
- E. Field Welding: Clean and strip primed steel items to bare metal where field welding is required. Comply with AWS D1.1 Code.
- F. Do not weld, cut or grind the surfaces of galvanized exterior steel fabrications.
- G. Obtain Architect approval prior to field cutting, drilling or alternations of steel fabrications not shown on the Drawings or on the Shop Drawings.

3.04 FIELD FINISHING

- A. Touch up all damaged shop priming with primer. Grind smooth and prime coat all field welds with primer. Refer to Painting – Section 09900 for primer products and application requirements.
- B. Refer to Painting – Section 09900 for painting requirements.

3.02 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section

1.02 SUMMARY

- A. Work Includes: Reception Counter.
- B. Related Work: Joint Sealers - Section 07900.

1.03 SUBMITTALS

- A. Refer to Section 01500 - Submittals Requirements.
- B. Submit one set of plastic laminate manufacturer's standard color samples.

1.04 DELIVERY, STORAGE AND HANDLING OF COUNTER

- A. Protect counter during transit, delivery, storage and handling to prevent damage, soiling or deterioration of counter,
- B. Deliver to installation area only after all painting, wet work, grinding, sanding and similar operations are completed.

PART 2 – PRODUCTS

2.01 UNDERLAYMENT

3/4" MDO.

2.02 PLASTIC LAMINATE

Horizontal Grade Standard (HGS) .048" thick plastic laminate, matte finish. Color as selected by Architect.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine and inspect wall which is to receive the work of this Specification Section.
- B. All issues and deficiencies are to be resolved prior to the commencement of the work of this Specification Section.

3.02 INSTALLATION

- A. Provide longest possible countertop and backsplash typical. Countertops and backsplashes to be installed flat and level. Joints shall be flush and tight with no gaps. Countertop and backsplash joints shall not occur within 18" of a sink.
- B. Securely attach counter to wall.
- C. Provide backsplashes at ends of countertop where countertops abut adjoining walls or casework. Secure backsplashes to wall or casework with two continuous beads of construction adhesive located at the top and bottom on back side of backsplashes. Install sufficient amount of adhesive to provide continuous bond at top and bottom of backsplash to wall or casework. At countertops with sinks provide continuous silicone sealant bead on bottom of backsplash. Firmly press backsplashes in place to provide full adhesion of adhesive and silicone sealant.
- E. Immediately remove and clean all excess adhesive and sealant from plastic laminate.

3.03 PROTECTION AND CLEANING

- A. Protect installed countertop from damage.
- B. Clean plastic laminate per manufacturer's printed instructions and recommendations.

3.04 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes: Wall Sound Insulation.
- B. Related Work: Metal Stud Framing – Section 05400.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle products in accordance with product written manufacturer's written instructions and recommendations.
- B. Keep products dry.

PART 2 – PRODUCTS

2.01 WALL SOUND INSULATION

- A. Approved Manufacturers:
Owens Corning, Toledo, OH.
Johns Manville, Denver, CO.
- B. Product: Un-faced fiberglass roll insulation, 3-1/2" thick, R-13.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. General:
 - 1. Install insulation products in accordance with product manufacturer's instructions and recommendations.
 - 2. Maintain integrity of insulation over entire area to be insulated.
 - 3. Carefully cut and closely fit insulation tight around pipes, conduits and obstructions.
- B. Sound Insulation:
 - 1. Extend insulation from bottom to top of wall.
 - 2. In wall cavities above ceilings with no finish material on interior side of stud, retain insulation in place with No. 18 wire support spaced 16 inches on center vertically.

3.02 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Included:
 - 1. Sheet Metal Gutters.
 - 2. Sheet Metal Downspouts.
- B. Related Work: Canopy – Section 05500.

1.03 APPLICABLE STANDARDS

Sheet Metal and Air-Conditioning Contractors National Association, Inc. (SMACNA) Architectural Sheet Metal Manual, latest edition.

PART 2 – PRODUCTS

- A. Gutters: Pre-finished .027" aluminum.
- B. Downspouts: Pre-finished .019" aluminum.
- C. Color to match Canopy paint color.

PART 3 – EXECUTION

3.01 INSPECTION

- A. Examine supporting and abutting work.
- B. Do not start work until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Install all work true, level and square.
- B. Gutters and downspouts to conform with SMACNA Architectural Sheet Metal Manual design standards.
- C. Slope gutters 1/8" minimum to downspouts.
- D. All work to be watertight.

3.03 ADJUSTMENT AND CLEANING

- A. Adjustment: Examine work. Remove all damaged. Correct misaligned work. Seal leaks to make work watertight.
- B. Cleaning: Clean all surfaces. Remove all sealant smears and foreign material.

3.03 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

Works Includes: Sealants and Backer Rod.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

Product Safety Data Sheets (SDS).

1.05 DELIVERY, STORAGE AND HANDLING

Deliver, store and handle products in accordance with product manufacturer's instructions and recommendations.

PART 2 – PRODUCTS

2.01 SEALANTS

A. Sealant Types:

TYPE 1 One Part, Self-Leveling:

Masterseal SL-1 by BAFF
Urexpan NR-201 by Pecora Corporation

TYPE 2 Polyurethane, Non-Sag:

DAP Polyurethane Plus
Masterseal MP-1 by BAFF
DynaTrol 1 by Pecora Corporation

TYPE 3 Acrylic Latex:

DAP Alex Plus
AC-20 by Pecora Corporation
Acrylic Latex No. 834 by Tremco

TYPE 4 Silicone:

DAP Silicone Max
Tub and Tile Silicone by Dow Corning.
898 NST Silicone Sealant by Pecora Corporation

B. Colors:

1. Sealant at Plumbing Fixtures: White.
2. Other Sealants: Match color of adjacent product or material.

PART 3 – EXECUTION

3.01 PREPARATION

- A. Clean and prime joints in accordance with sealant manufacturer's instructions and instructions.
- B. Remove loose materials and foreign matter from joints. Remove dust with compressed air.

- C. Protect elements adjoining the work of this Section from damage or disfiguration. Install masking tape to maintain clean lines and protect adjoining surfaces where necessary.

3.02 SEALANT SCHEDULE

Building Interior Joints:

Window and Door Frame Perimeters: Type 3
Abutment Joints: Type 3
Plumbing Fixture Perimeters: Type 4
Countertops to Wall: Type 4

3.03 INSTALLATION

- A. Install products in accordance with product manufacturer's written instructions and recommendations.
- B. Install sealant free of air pockets, foreign embedded matter, ridges and sags. Installed sealants to be smooth and uniform in appearance.
- C. Installed exterior sealants and sealant at plumbing fixtures are to be watertight.

3.04 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes: Hollow Metal Frames.
- B. Related Work:
 - 1. Metal Stud Framing – Section 05600.
 - 2. Door Hardware - Section 08700.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

Steel Doors Institute (SDI) standards, latest edition.

1.05 DELIVERY, STORAGE AND HANDLING

Deliver, store and handle products in accordance with the product manufacturer's instructions and recommendations.

PART 2 – PRODUCTS

2.01 APPROVED MANUFACTURERS

Republic Doors and Frames, McKenzie, TN

Ceco Door Products, Brentwood, TN.

Curries Company, Mason City, IA.

Trudoor, Phoenix, AZ

2.03 HOLLOW METAL FRAMES

- A. Construction: SDI Level 2 - 18 gauge, Welded.
- B. Finish: Factory applied rust inhibitive primer.
- C. Frame Anchors Stud Construction: Lock-in type, 18 gauge. 3 per jamb.
- D. Rated Frames: Provide 20 minute rated frames at doors in Corridor walls.

PART 3 – EXECUTION

3.01 HOLLOW METAL FRAMES INSTALLATION AT METAL STUD CONSTRUCTION

- A. Install frames square, plumb and level.
- B. Install frame lock-in anchors located at hinge positions on hinge side of frame and frame anchors on strike side of frame located parallel with the hinge frame anchors. Attach frame anchors to stud jamb framing with 2 - #8 X 1-1/2" sheet metal screws one each side of frame anchor.

3.02 DOOR HARDWARE

See Door Hardware - Section 08700.
3.03 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Included: Wood Doors.
- B. Related Work:
 - 1. Hollow Metal Frames - Section 08100.
 - 2. Door Hardware - Section 08700.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

Industry Standard for Interior Architectural Wood Flush Doors, ANSI/WDMA I.S. 1A-13, latest edition.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver, storage and handle doors in accordance with product manufacturer's instructions and recommendations.
- B. Handle doors with clean hands or clean gloves at all times. Do not drag doors.

PART 2 - PRODUCTS

2.01 WOOD DOORS

- A. Approved Manufacturers:
 - 1. Marshfield Door Systems Inc., Marshfield, WI.
 - 2. Edders Industries / VT Industries, Two Rivers, WI.
 - 3. Streck-O Doors LLC, Abbotsford, WI.
- B. Door Construction:
 - 1. Comply with ANSI/WDMA I.S. 1A-13.
 - 2. Door Performance Duty Level: WDMA Standard Duty.
 - 3. Door Profile: Flush.
 - 4. Wood Type: Match existing in Building.
- C. Door Stain and Finish: Match existing in Building.
- D. Rated Doors:
 - 1. 20 minute label at Corridor walls.
 - 2. 90 minute label at two hour rated Fire Barrier wall.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Wood Doors Installation Requirements:
 - 1. Install doors square, plumb and level.
 - 2. In fitting for height, do not trim top or bottom edge of door more than 3/4".
- B. Clearances:
 - 1. 1/8" between door and frame at head and jams.

2. 1/8" to 1/4" at meeting edges of pairs of non-rated doors.
 3. 3/4" maximum at bottom above finished floor.
- C. Hardware: Refer to Door Hardware – Section 08700.

3.02 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes: Door Hardware.
- B. Related Work:
 - 1. Hollow Metal Frames – Section 08100.
 - 2. Wood Doors– Section 08200.

1.03 DELIVERY, STORAGE AND HANDLING

Deliver, store and handle products in accordance with product manufacturer's instructions and recommendations.

PART 2 – PRODUCTS

- A. All locksets and latchsets to be level type and ADA compliant.
- B. Manufacturer: Same as existing hardware.
- C. Finish: Match finish of existing hardware.
- D. Closers: Doors in Corridor walls to have closers.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Install products in accordance with product manufacturer's instructions and recommendations.
- B. Install hardware square, plumb and level.

3.02 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes:
 - 1. Gypsum Board.
 - 2. Cement Backer Board.
 - 3. Metal Trim.

- B. Related Work:
 - 1. Metal Stud Framing – Section 05400.
 - 2. Toilet Room Tile – Section 09400.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

GA-214-96, Recommended Levels of Gypsum Board Finish, Gypsum Association, latest edition.

1.05 DELIVERY, STORAGE AND HANDLING

Deliver, store and handle products in accordance with product manufacturer's instructions and recommendations.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

- A. United States Gypsum (USG) Corporation, Chicago, IL.

- B. Other Approved Manufacturers:
 - 1. Georgia-Pacific Building Products, Atlanta, GA.
 - 2. National Gypsum Company, Charlotte, NC.

2.02 PRODUCTS

- A. Standard Gypsum Board: USG Sheetrock, 5/8" thick.

- B. Fire Rated Gypsum Board: USG Sheetrock Type X, 5/8" thick.

- C. Water Resistant Gypsum Board: USG Waterproof Sheetrock, 5/8" thick.

- D. Cement Backer Board: USG Durock, cementitious fiber-mat reinforced sheathing, 5/8" thick.

- E. Metal Trim:
 - 1. Typical Edge Trim: USG No. 200-A, galvanized.
 - 2. Typical Corner Bead: USG No.103 Dur-A-Bead, 1-1/4" x 1-1/4" galvanized.
 - 3. Typical Control Joint: USG No. 093, galvanized.

PART 3 – EXECUTION

3.01 SCHEDULE

General Areas and Rooms: 5/8" Gypsum Board

Toilet Painted Walls: 5/8" Water Resistant Gypsum Board

Toilet Tiled Wall: 5/8" Cement Backer Board.

Rated Walls: 5/8" Type X Gypsum Board.

3.02 INSTALLATION

- A. Install board products and trim in accordance with manufacturer's instructions and recommendations.
- B. Install maximum lengths of board products and trim possible.
- C. Apply gypsum board to ceilings first then walls.
- D. Install gypsum vertically with edges and ends occurring over stud bearing.
- E. Provide metal corner bead trim at all outside corners in gypsum board.
- F. Provide metal edge trim at all locations where gypsum board abuts dissimilar materials.

3.04 GYPSUM BOARD FINISHES (Per GA-214-96)

Exposed to view painted: Level 3.

3.04 PROTECTION

Protect the installed work.

END OF SECTION

ART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes: Toilet Rooms Floor, Base and Wall Tile.
- B. Related Work:
 - 1. Metal Stud Framing – Section 05400.
 - 2. Gypsum and Cement Board – Section 09250 (Cement Backer Board).

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

- A. TCNA Handbook for Ceramic, Glass and Stone Installation, latest edition.
- B. ANSI A137.1 American National Standard Specifications for Ceramic Tile – latest edition.

1.05 FLOOR TILE SAFETY ASSURANCE

Floor tile shall have a wet DCOF of 0.42 or greater when tested using SLS solution per procedure in Section 9.6 of ANSI A137.1.

1.06 SUBMITTALS

- A. Refer to Section 01500 - Submittals Requirements.
- B. Submit two samples of manufacturer's full range of tile colors for selected tile product.
- C. Submit two samples of manufacturer's full range of grout colors.

1.07 DELIVERY, STORAGE AND HANDLING

Deliver, handle and store products in accordance with the product manufacturer's written instructions and recommendations.

1.08 EXTRA MATERIALS

- A. Provide one full carton of each tile product used.
- B. Provide one full, unopened package of each grout color used.

PART 2 – PRODUCTS

2.01 TOILET FLOOR TILE

- A. Manufacturer and Product: Emser Tile, Esplanade glazed porcelain.
- B. Size: 12" X 24".

2.02 TOILET WALL TILE (WET WALL)

- A. Manufacturer and Product: Emser Tile, Esplanade glazed porcelain.
- B. Size: 3" x 12" Floor SBN.

2.03 TOILET WALL TILE (WET WALL)

- A. Manufacturer and Product: Emser Tile, Esplanade glazed porcelain.
- B. Size: 3" x 12" Floor SBN.

2.04 BASE

- A. Manufacturer and Product: Emser Tile, Esplanade glazed porcelain.
- B. Size: 3" x 12" Floor SBN.

2.04 ENTRANCE DOOR THRESHOLD

4" wide marble threshold with edges complying with ICC A117.1-2009 Figure 303.3 (a).

2.05 FLOOR FILLER

Laticrete Floor Mud #209 by Laticrete International Inc., Bethany, CT.

2.06 ADHESIVE MORTAR

- A. Manufacturer and Product: Laticrete International, Bethany, CT, Platinum 254.
- B. Modified polymer, thinset adhesive mortar.

2.07 GROUT

- A. Manufacturer and Product: Laticrete International Inc., Bethany, CT, Spectralock Pro Grout.
- B. Integral color epoxy grout.
- C. Color: As selected by the Architect.

PART 3 – EXECUTION

3.01 GENERAL

Work shall comply with the Tile Council of America, Handbook for Ceramic Tile Installation, latest edition.

3.02 CONCRETE FLOOR PREPARATION

- A. Remove high areas of concrete and bumps by grinding. Fill low spots, cracks, joints, holes and other defects with floor filler.
- B. Apply, trowel and float floor filler to leave smooth, flat, hard surface.
- C. Prohibit traffic until floor filler is cured.
- D. Vacuum floor surface. Concrete floors are to be clean and, and free of dirt, dust and foreign material.

3.03 TILE PATTERNS

- A. Floor Tile Pattern: Stacked bond.
- B. Wall Tile Pattern: Running bond, one-half tile off-set.

3.04 TILE INSTALLATION

- A. Install products in accordance product manufacturer's written instructions and recommendations.

- B. Joint Width: 1/8" typical.
- C. Apply mortar to floor. Lay floor tile from room center lines toward perimeter. Do not interrupt tile pattern through openings. Tile joints to be of uniform width. Allow tile to set for a minimum of 4 hours prior to grouting.
- D. Grout joints.

3.05 FLOOR TO WALL TILE INSTALLATION

- A. Install product in accordance product manufacturer's instructions and recommendations.
- B. Provide clean miter cuts at inside and outside corners.

3.05 CLEANING

Upon completion of tile work clean floor, transitions and wall surfaces of all traces of mortar and grout.

3.06 PROTECTION

- A. Keep foot traffic off installed floor tile for 24 hours minimum after installation.
- B. Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

A. Work Includes: Resilient Base.

1. Related Work: Gypsum and Cement Board – Section 09250.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 DELIVERY, STORAGE AND HANDLING

Deliver, store and handle products in accordance with product manufacturer's instructions and recommendations.

PART 2 - PRODUCTS

2.01 RESILIENT BASE

- A. Top set straight resilient base 1/8" X 4" high by Roppe Corporation, Fostoria, OH.
- B. Color: Match existing.

2.02 BASE ADHESIVE

1100 Wall Base Adhesive by Roppe Corporation, Fostoria, OH.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install products in accordance with product manufacturer's written instructions and recommendations.
- B. Installation:
 1. Use maximum lengths of base possible.
 2. Press down base to contact floor or flooring. Firmly adhere base.
 3. Cut and fit base tight to door frames, casework and other work.
 4. All joints to be tight and aligned.

3.02 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Included: Painting.
- B. Related Work:
 - 1. Hollow Metal Frames – Section 08100.
 - 2. Gypsum and Cement Backer Board – Section 09250.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

- A. Comply with applicable regulations and standards of the U.S. Environmental Protection Agency (EPA).
- B. Product Safety Data Sheets (SDS).

1.05 SUBMITTALS

- A. Refer to Section 01500 - Submittal Requirements.
- B. Submit two (2) fan deck paint color samples (full color).

1.06 EXTRA MATERIALS

- A. Provide one full gallon container of each paint color and stain product used for Owner.
- B. Label each paint and stain container with location used.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle products in accordance with product manufacturer's written instructions and recommendations.
- B. Comply with Product Safety Data Sheets (SDS).

PART 2 – PRODUCTS

2.01 PAINTS, STAINS AND COATINGS

Product names and numbers are Sherwin Williams, Cleveland, OH unless otherwise noted.

- A. Metal Primer: Pro Industrial Pro-Cryl Universal Primer B66-1310.
- B. Gypsum Board Primer: ProMar 200 Zero Primer B28W2600.
- C. Acrylic Latex Enamel Paints:
 - 1. Non-Metal Surfaces: Solo A77W51.
 - 2. Metal Surfaces: ProIndustrial HP Acrylic B66 Series.

2.02 PAINT COLORS

- A. As selected by the Owner from manufacturer's standard colors.

- B. A maximum of four interior wall paint colors may be selected.
- C. Multiple interior paint colors may be selected, arranged in various combinations, used to accent trim, materials and architectural features.

PART 3 – EXECUTION

3.01 GENERAL

- A. Comply with product manufacturer's product instructions and recommendations.
- B. Comply with Product Safety Data Sheets (SDS).

3.02 DUST CONTROL

Clean interior space prior to start of finish painting and continue cleaning on an as needed basis until painting is finished. Schedule operations so dust and other contaminants will not fall on wet or newly painted or coated surfaces.

3.03 PREPARATION

- A. General:
 - 1. Correct all surface defects, which may adversely affect the finished work.
 - 2. Clean all surfaces prior to sealer or primer application. Surfaces to be free of all loose coating, dust, corrosion and foreign matter.
- B. Gypsum Board:
 - 1. Thoroughly clean all surfaces.
 - 2. Remove all drywall dust.
- D. Hollow Metal Frames:
 - 1. Sand to a smooth, uniform finish with No. 120 grit sand paper.
 - 1. Thoroughly clean all surfaces.

3.04 APPLICATION

- A. Workmanship: Evenly apply coats, well flowed on, free of laps, runs, skips, dead spots and other imperfections. Finish coat to present a uniform surface, color and texture.
- B. General:
 - 1. Mask and cut-in as required to accomplish the various color combinations. Make edges of paint clean and sharp (no overlaps) where they adjoin other colors or materials.
 - 2. Paint entire surfaces, parts, and items including reveals, returns, rabbets, soffits, projections, openings and ornamental features.
- C. Application Methods:
 - 1. Hollow Metal Frames: Brush applied.
 - 2. Gypsum Board Walls and Ceilings: 3/8" nap roller applied.
- D. Color Changes: Make color changes at inside corners typically. Paint to a clean straight line.

3.05 PAINT FINISHES SCHEDULE

Canopy Framing and Pneumatic Tube:
Coat 1: Metal Primer
Coat 2: Acrylic Latex Enamel, Semi-Gloss.
Coat 3: Acrylic Latex Enamel, Semi-Gloss.
Total DFT: 4.5 mils.

Hollow Metal Frames:
Coat 1: Acrylic Latex Enamel, Semi-Gloss.
Coat 2: Acrylic Latex Enamel, Semi-Gloss.
Total DFT: 3.0 mils.

Gypsum Board:
Coat 1: Gypsum Board Primer.
Coat 2: Acrylic Latex Enamel, Semi-Gloss.
Coat 3: Acrylic Latex Enamel, Semi-Gloss.
Total DFT: 4.5 mils.

Other items, equipment and materials may require painting. See Specification Sections for requirements.

3.06 SITE AND ENVIRONMENT PROTECTION

- A. Dispose of unused products into the Building sanitary sewer drain system.
- B. Do not dispose of unused products onto site, paving, earth or lawn areas.
- C. Do not clean brushes, pans or spray equipment with water or solvent onto site, paving, earth or lawn areas.

3.07 PROTECTION

Protect the installed work.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

Work Includes: Building Signs.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

ANSI A117.1, Accessible and Useable Buildings and Facilities, 2009 Edition.

1.05 SUBMITTALS

- A. Refer to Section 01500 - Submittal Requirements.
- B. Sign Shop Drawings showing sign dimensions, layouts and fabrication.
- C. Two (2) copies of sign base and text color charts.

PART 2 - PRODUCTS

2.01 BUILDING SIGNS

Refer to Sign Schedules at the end of this Specification Section for Sign Types.

- A. Approved Manufacturer: EMG, Tulsa, Oklahoma
- B. Material:
 - 1. Sign Base: 1/4" acrylic.
 - 2. Sign Background: Automotive paint.
- C. Font: Arial Bold.
- C. Fabrication: All signs shall be manufactured using engraved process whereby text and image symbols are an integral part of signage body.
 - 1. Text and image symbols shall be raised 1/32" from sign face.
 - 2. Work to have sharp clean profiles.
 - 3. Text shall be accompanied by Grade 2 Braille.
 - 4. Edges: Finish edges smooth and clean, without chips or burrs.
- D. Colors: As selected by Architect.

PART 3 - EXECUTION

3.01 BUILDING SIGN MOUNTING LOCATIONS AND HEIGHTS

- A. Mounting Location: Mount sign adjacent to strike side of door typical unless otherwise noted.
- B. Mounting Heights: +60" above finish floor typical to sign centerline. Signs S3, S4 and S5 to be mounted
+72" above finish floor to sign centerline.

3.02 INSTALLATION

- A. Install signs plumb, level and true.
- B. Wall Mounted Signs:
 - 1. Provide mounting silicone adhesive on all four sides of sign.
 - 2. Press sign firmly to mounting surface.
- C. Glass Mounted Signs:
 - 1. Provide mounting silicone adhesive on all four sides of sign.
 - 2. Press sign firmly to mounting surface.
 - 3. Provide 1/8" thick plastic back plate on reverse side of glass. Back plate to be of same color and size as front sign.

3.03 PROTECTION

Protect the installed work.

END OF SECTION

SIGN SCHEDULE
 CITY OFFICES RENOVATION
 CITY OF GROVE

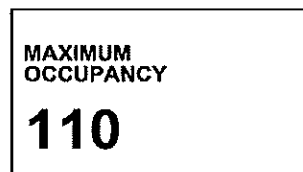
SPECIALITY ROOM SIGNS

SIGN DESIGNATION

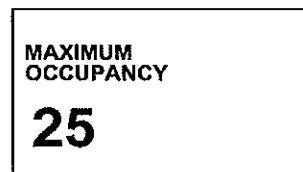
S1 Exit Doors
 Locations: Interior at Exit Doors
 Sign Size: 5" X 8"
 Text: 1-1/2" High



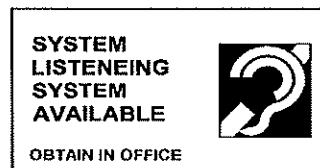
S2 Room Capacity
 Location: Council Court Room 501
 Inside Room Adjacent to Entrance Door
 Sign Size: 8" X 12"
 Text: 3/4" and 1-1/2" High



S3 Room Capacity
 Location: Conference Room 503
 Inside Room Adjacent to Entrance Door
 Sign Size: 8" X 12"
 Text: 3/4" and 1-1/2" High



S4 Assistive Listening System ALS
 Location: Council Court Room 501 & Conference Room
 Room 503
 Inside Room Adjacent to Entrance Door
 Sign Size: 8" X 12"
 Text: 3/4" and 1/2" High



S6 Men's Toilet
 Location: Men's Room 601
 Sign Size: 6" X 8"



S7 Women's Toilet
Location: Women's Room 602
Sign Size: 6" X 8"



S8 Family & Assist Toilet
Location: Restroom 605
Sign Size: 8" X 8"



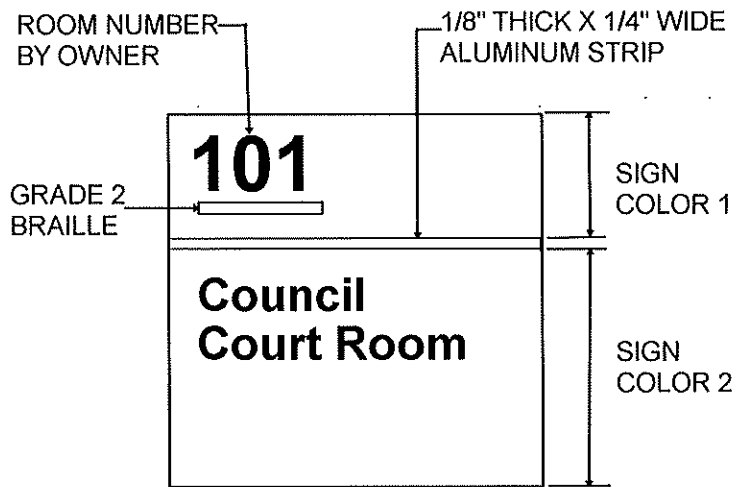
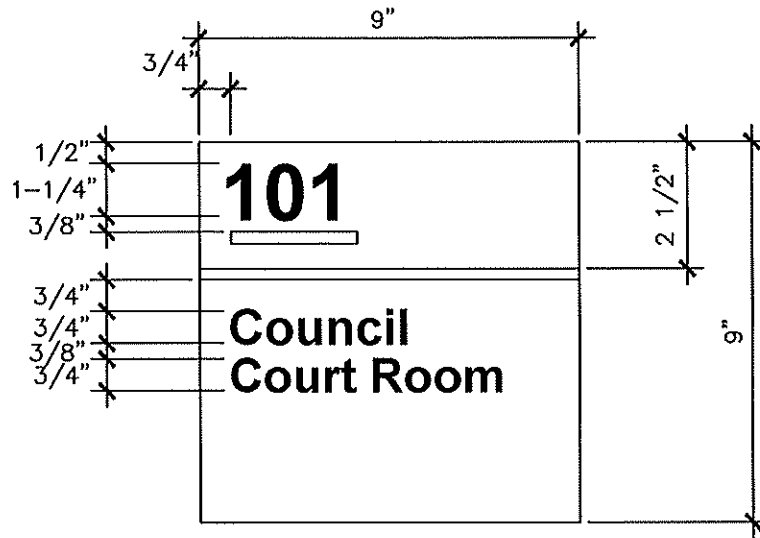
SIGN SCHEDULE
 CITY OFFICES RENOVATION
 CITY OF GROVE

ROOM & OFFICES SIGNS

REFER TO 10400 ROOM & OFFICE SIGN DETAIL

SIGN DESIGNATION	SIGN TEXT	SIGN LOCATION
S10	RECEPTION	Reception Room 101
S11	STORAGE	Storage Room 701
S12	CITY CLERK	City Clerk Room 212
S13	CITY CLERK	City Clerk Room 202
S14	ADMINISTRATION	Door to Corridor serving City Manager
S15	CITY TREASURER	City Treasurer Room 211
S16	CITY ATTORNEY	City Attorney Room 205
S17	CITY MANAGER	City Manager Room 201
S18	CITY MANAGER	City Manager Room 201 Note: Provide two signs.
S19	GMSA	GMSA Room 704
S20	FILE STORAGE	File Storage Room 708
S21	PUBLIC WORKS DIRECTOR	Public Works Director Room 206
S22	OFFICE	Spare Office Room 209

S23	HUMAN RESOURCES	Human Resources Room 210
S24	ELECTRICAL	Electrical Room 901
S25	COUNCIL COURT ROOM	Council Court Room 501
S26	EMERGENCY CALL CENTER	Emergency Call Center Room 502
S27	STORAGE	Storage Room 705
S28	STORAGE	Storage Room 706
S29	CONFERENCE ROOM	Conference Room 503
S30	STORAGE	Storage 706
S31	OFFICES	Office Room 504
S32	JANITOR	Janitor Room 603
S33	CODE ENFORCEMENT	Code Enforcement Room 204
S34	CONVENTION & TOURISM BUREAU	Convention & Tourism Bureau Room 203
S35	STORAGE	Storage Room 703
S36	BREAK ROOM	Break Room Room 301



ROOM AND OFFICE SIGN
DETAIL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Division 1 General Requirements applies to this Section.

1.02 SUMMARY OF THIS SECTION

- A. Work Includes:
 - 1. Grab Bars.
 - 2. ADA Pipe Cover Shield.
 - 3. Diaper Changing Station.
 - 4. Lavatory Framed Mirror.

- B. Work By Owner (Owner Furnished Owner Installed):
 - 1. Paper Towel Dispensers.
 - 2. Paper Towel Waste Receptacles.
 - 3. Soap Dispensers.
 - 4. Toilet Paper Dispensers.

1.03 SUBSTITUTIONS

For substitutions of specified products refer to Section 01600 - Product Options and Substitutions.

1.04 APPLICABLE STANDARDS

ANSI A117.1, Accessible and Useable Buildings and Facilities, 2009 Edition.

1.05 DELIVERY, STORAGE AND HANDLING

Deliver, store and handle products in accordance with product manufacturer's instructions and recommendations.

PART 2 – PRODUCTS

2.01 TOILET AND BATH ACCESSORIES

T1, T2 and T3

Grab Bars: Bobrick No. B-6806 Series, Satin Finish, 1-1/4" outside diameter. Lengths: 18", 36" and 42".

T4

ADA Pipe Cover Shield: Truebro 82202 Color: White.

T5

Diaper Changing Station: Kola Kare KB-300 22" X 36" X 4" Surface Mounted.

T6

Lavatory Framed Mirror: Bobrick B-165 2436 24" x 36"

PART 3 – EXECUTION

3.01 INSTALLATION

Install products in accordance with product manufacturer's instructions and recommendations

3.02 PROTECTION

Protect the installed work.

END OF SECTION