

**SECTION 10200**

**LOUVERS**

**PART 1 GENERAL**

1.1 DESCRIPTION OF WORK

- A. The work includes furnishing all labor, materials, equipment and appliances required to complete the Louver work as indicated on the Drawings and as specified herein.

1.2 QUALITY ASSURANCE:

- A. All work shall be in accordance with standards of the Sheet Metal and Air Conditioning Contractor's National Association, Inc. (SMACNA) and with all applicable codes.
  - 1. The Contractor shall coordinate the louver locations and verify sizes with the electrical generator installation.

**PART 2 PRODUCTS**

2.1 MATERIALS

- A. Gravity Exhaust Louvers
  - 1. Gravity Exhaust Louvers shall be Heavy Duty Extruded Aluminum Backdraft Dampers, Model BD 2/A1 for exhaust air as manufactured by Ruskin, or approved equal.
  - 2. Louvers shall be provided in sections as necessary to provide required width for openings.
  - 3. The following are minimum operating performance requirements:
    - a. Maximum velocity 1000 FPM, leakage for 36" or greater width to be a maximum 6.5% of maximum flow, blades shall start to open at 0.03" Water gauge (wg) and shall be fully open at 0.10" wg.

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B. Gravity Intake Louvers

1. Gravity Intake Louvers shall be Heavy Duty Extruded Aluminum Backdraft Dampers, Model CBD2 for intake air as manufactured by Ruskin, or approved equal.
2. Louvers shall be provided in sections as necessary to provide required width for openings.
3. The following are minimum operating performance requirements:
  - a. Maximum velocity 1000 FPM. Leakage for 36" and greater width to be a maximum of 1.5% of maximum flow. Maximum backpressure for 40" and under louvers shall be 1.5" wg at a 55 mph wind and shall be 2.5' wg at a 70 mph wind for a width of 36' or less. Blades shall start to open at 0.01" wg or greater in width and shall be fully open at 0.06" wg.

C. Fixed Louvers

1. Fixed Louvers shall be Extruded Aluminum Stationary Louver, Model ELF6 375DX with insect screen as manufactured by Ruskin, or approved equal.
2. The minimum performance requirements based upon a 48" x 48" unit are maximum pressure drop of 0.15" Wg with 55% free area for 6" frame depth and ELF 375DX for 4" frame depth.

D. All louvers must be certified by a recognized testing laboratory to be weatherproof with face velocity up to 680 FPM. All tests are to consider both free-falling rain and water running down a wall and passing over the face of the louver.

E. Water penetration to be less than 0.01 oz./sq.ft. of total area/15 minute period at an intake velocity of 800 FPM or less.

F. Frame and blades shall be 6063-T5 alloy, extruded aluminum sections, minimum .080 inch thick with reinforcing bosses. All blades shall be supported and wired up with heavy gauge extruded aluminum blade braces, positively interlocked to each blade and mechanically secured to structural angles by aluminum and stainless steel fastenings. Frames shall be channel type, caulked in place as required to make watertight. Blade angle shall be 37.5°.

G. All required structural supports shall be included herein (including steel lintels) and they shall be designed such that the whole louver system will be capable of

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supporting a wind load of not less than 20 lbs per sq. ft. Allowance for expansion shall be provided at the jambs.

- H. All louvers shall be furnished with an insect screen secured with extruded aluminum frame, independent of louver frame.
- I. All louvers shall be free of scratches and blemishes and shall have a factory applied finish of a color selected by the Engineer.
- J. Miscellaneous: Contractor shall provide all supports, fasteners and miscellaneous appurtenances required for complete installation of louvers.
- K. Color and exterior finish shall be selected by the Engineer from manufacturer's standard colors.
- L. Approved manufacturers and model numbers:
  - 1. Fixed Louvers
    - Arrow                      Series Style 2700
    - Ruskin                     Series Style ELF-375DX
    - Vent Products            Series Style ESP.30

2.2    MOTORIZED DAMPERS

- A. Furnish and install motorized dampers where shown on the Drawings.
- B. Dampers shall be of a low leakage design with vinyl seals provided on all blade edges. Leakage shall be less than 5 CFM per foot squared at 3-inch W.G. for 12" wide unit and 2.5 GFM/foot squared for 60" wide unit.
- C. Frames and blades shall be of an all-aluminum construction.
- D. Bearings shall be of a non-stick and non-corrosive type.
- E. Dampers shall be operated by electric actuators. Actuators shall be supplied by the damper manufacturer. Actuators shall be located out of the airstream.
- F. Approved manufacturers and model numbers:
  - Arrow                      AFD20 Series
  - Ruskin                     Type CD40 Series
  - Vent Products            Model 5812 Series

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2.3 DAMPER MOTORS (2-POSITION-ELECTRIC)

- A. Damper motors shall be electric, two position, spring return, 120V type (unless other voltage is shown on electrical drawings), 160 stroke with double ended shaft. Include all necessary linkage and shafts, etc., for the control of louver type dampers.
- B. Damper motors shall be sufficiently powerful to ensure gradual action and a smooth uniform opening or closing without over-torquing the motor under maximum airflow conditions.
- C. Manufacturers and models:

Belimo	Type AMB
Honeywell	Type M845A
Johnson	Type M-81
Powers	Type CA 134-2

**PART 3 EXECUTION**

3.1 GENERAL

- A. General: Contractor shall be responsible for the complete installation of the louvers in accordance with best practices of the appropriate trades.

3.2 LOUVERS

- A. Louver Installation: Louvers shall be installed as indicated on the Drawings and in accordance with manufacturer's instructions for complete weathertight installation.
- B. Operation: Gravity louvers shall be installed to allow for proper operation under required intake and exhaust velocities.

**END OF SECTION**

**SECTION 10400**  
**INTERIOR SIGNS**

**PART 1 GENERAL**

1.1 DESCRIPTION OF WORK

- A. The work includes furnishing all labor, materials and equipment required to complete the Interior Sign work as shown on the Drawings and as specified herein.

1.2 SUBMITTALS

- A. Provide the following in accordance with SECTION 01340.
  - 1. Product Data: Provide manufacturer's standard details and installation instructions.
  - 2. Shop Drawings: Submit shop drawings of each type of sign required for acceptance prior to fabrication of any sign work.
    - a. Include schedule of text of each sign required.
    - b. Show mounting methods.
    - c. Include manufacturer's installation instructions.
    - d. Indicate field measurements, if necessary for correct fit.
  - 3. Verification Samples: Submit samples of each color, pattern, and finish.

**PART 2 PRODUCTS**

2.1 MATERIALS

- A. Signage System: Shall be ASI Interior Sign Series, unframed acrylic signs by ASI Sign Systems (800) 274-7732, or approved equal.
  - 1. Handicap Restroom Signs: Shall be plastic, white on blue background signs with the international symbol of access (6" high minimum). Letters shall be raised not less than 1/32 inch; shall be upper case, simple typeface; and shall be accompanied with Grade 2 Braille. Raised letters

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shall be not less than 5/8 inch nor more than 2 inches in height. Signs shall be provided for the following rooms with the designated lettering and accompanying Braille characters:

2. Building Access and Exit Signs: Shall be engraved plastic, white on blue background signs with the international symbol of access (6" high minimum).

B. Sign Schedule:

a. Hatchery Building

D 103A "WOMEN" (Accessible Restroom Sign)

D 104A "MEN" (Accessible Restroom Sign)

D 109A "STORAGE"

D 109B "STORAGE"

D 110A "FORMALIN ROOM"

D 110B "FORMALIN ROOM"

D 112A "ELECTRICAL ROOM"

D 114A "INCUBATION ROOM"

D 115A "INCUBATION ROOM"

D 118A "MECHANICAL ROOM"

D 119A "RESTROOM"

D 121A "FEED ROOM"

D 201A "GENERATOR ROOM"

D 201B "GENERATOR ROOM"

D 202A "WATER TREATMENT ROOM"

D 202B "WATER TREATMENT ROOM"

D 203A "CYCLONE ROOM"

D 203B "CYCLONE ROOM"

D 203C "HEAD TANKS"

- b. Provide Exit Signs at all exterior doors.

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**PART 3 EXECUTION**

3.1 EXAMINATION

- A. Verify that dimensions are correct and substrate is in proper condition for installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Layout units accurately according to templates provided to ensure that units will be plumb and level, and properly spaced.

3.3 INSTALLATION

- A. Install according to manufacturer's recommended procedures.
- B. Signs shall be located as directed by the Engineer.

3.4 CLEANING AND PROTECTION

- A. Clean surfaces just prior to Substantial Completion.
- B. Protect units from damage by subsequent construction.
- C. Marred surfaces: Restore to new condition, or replace with new, undamaged material.

**END OF SECTION**

**SECTION 10501**

**WARDROBE LOCKERS**

**PART 1 GENERAL**

1.1 DESCRIPTION OF WORK

- A. The work includes furnishing all labor, materials, equipment and appliances required to complete the Wardrobe Locker work as indicated on the Drawings and as herein specified.

1.2 QUALITY ASSURANCE

- A. Quality Standards: Except as otherwise shown or specified, comply with specified provisions of the following:
  - 1. Architectural Woodwork Institute (AWI) "Quality Standards".

1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Protect woodwork during transit, delivery, storage, and handling to prevent damage, soiling and deterioration. Do not take delivery of lockers which could damage, soil, or deteriorate work completed in installation areas. If items must be stored in other than installation areas, due to unforeseen circumstances, store only in areas meeting requirements specified for installation areas.

1.4 JOB CONDITIONS

- A. Examination: The Installer must examine the substrates and conditions under which the work is to be installed; and notify the General Contractor of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

1.5 SUBMITTALS

- A. Shop Drawings: Submit shop drawings in accordance with SECTION 01340. The locker manufacturer is responsible for details and dimensions not controlled by job conditions and shall show on his shop drawings all required field measurements beyond his control. The Installer and the locker manufacturer shall cooperate to establish and maintain these field dimensions.

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**PART 2 PRODUCTS**

2.1 MATERIALS

- A. Core shall be medium density particleboard conforming to C.S. 236-66 (type 1-B-2).
- B. Pre-manufactured lockers may be proposed, subject to the approval of the CM, providing proposed substitution meets all of the specifications listed herein.
- C. Finish
  - 1. Exterior: Plastic laminate as specified in Section 06240, Plastic Laminate, color shall be as indicated on the finish schedule.
  - 2. Interior: Shall be Wilson Art No. 1573 Cabinet Liner, or approved equal.
- D. Edges of doors shall have black bumper T-mold with radiused corners.
- E. Hardware
  - 1. Hinges: Hinges for laminate clad lockers shall be 2-3/4" heavy-duty steel; hospital style rounded safety knuckle with fixed pin, offset throw, baked black enamel finish. Three hinges per doors over 48" high.
  - 2. Locks: Shall be combination locks with key override.
  - 3. Shelves: Provide one shelf with rod per locker.

**PART 3 EXECUTION**

3.1 FABRICATION

- A. Fabrication: Lockers shall be fabricated in accordance with the requirements of AWI Section 1600 and the approved shop drawings. Locker arrangement and layout shall be as indicated on the Drawings.
- B. Design and Construction Features: Comply with the details shown for construction of Modular Cabinets (AWI 1600) with alternate details at Fabricator's option, subject to acceptance by the Engineer.

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3.2 INSTALLATION

A. General

1. Install the work plumb, level, true, and straight, with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.
2. Install without distortion so that doors will fit openings properly and be accurately aligned. Adjust hardware to center doors in openings and to provide unencumbered operation. Complete the installation of hardware and accessory items as indicated.

B. Adjustment, Cleaning, Finishing, and Protection

1. Repair damaged and defective wood and laminate work wherever possible to eliminate defects functionally and visually; where not possible to repair properly, replace. Adjust joinery for uniform appearance.
2. Clean hardware, lubricate and make final adjustments.
3. Clean exposed and semi-exposed surfaces. Touch-up shop-applied finishes to restore damaged or soiled areas.
4. Complete the finishing work specified as work of this Section, to whatever extent not completed at the shop or prior to installation of lockers.

- C. Protection: The Installer of lockers shall advise Contractor of final protection and maintained conditions necessary to ensure that the work will be without damage or deterioration at the time of acceptance.

**END OF SECTION**

**SECTION 10520**

**FIRE EXTINGUISHERS AND CABINETS**

**PART 1 GENERAL**

1.1 DESCRIPTION OF WORK

- A. The work includes furnishing all labor, materials and equipment required to complete the Portable Fire Extinguisher work as shown on the Drawings and as specified herein.

1.2 QUALITY ASSURANCE:

- A. Unless otherwise acceptable to the Engineer, furnish fire extinguishers and accessories by only one manufacturer.
- B. Manufacturer: Provide portable fire extinguishers as specified below or as manufactured by one of the following: W.D. Allen Mfg. Co.; Elkhart Brass Mfg. Co., Inc.; General Fire Extinguisher Corp.; J.L. Industries; Norris Industries; or approved equal.

1.3 SUBMITTALS:

- A. Manufacturer's Data: For information only, submit manufacturer's technical data and installation instructions for all portable fire extinguishers and required signs in accordance with SECTION 01340.

**PART 2 PRODUCTS**

2.1 MATERIALS

- A. Fire Extinguishers: Provide one extinguisher and cabinet at each FEC location and one extinguisher and wall bracket at each FE location shown on Drawings, of types specified hereinafter.
  - 1. Dry Chemical Type: Model MP5, UL-rating 2A-10B:C, as manufactured by Larsen's Manufacturing Company, or approved equal.
- B. Fire Extinguisher Cabinets: Shall be Model No. 2409-R3, Rolled Edge Semi-Recessed cabinet, with Architectural Series "Break Glass" Door as manufactured by Larsen's Manufacturing Company, or approved equal.

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- C. Wall Brackets: Shall be bracket type to fit specified extinguisher, with correct mounting accessories to fit substrate.

**PART 3 EXECUTION**

3.1 GENERAL

- A. Installation: Install in locations shown on Drawings at mounting height to comply with governing authorities. Securely fasten to structure, square and plumb, in accordance with manufacturer's instructions. Wherever exact location of recessed-mounted units is not shown, locate as directed by Engineer.
- B. Identification: After installation and finishing (if any) is completed, apply red sign indicating "FIRE EXTINGUISHER". Size, style, and location as selected by the Engineer.

**END OF SECTION**

**SECTION 10800**

**TOILET ACCESSORIES**

**PART 1 GENERAL**

1.1 DESCRIPTION OF WORK

- A. The work includes furnishing all labor, materials and equipment required to complete the Toilet Accessories work as shown on the Drawings and as specified herein.

1.2 SUBMITTALS

- A. Submittals: Submit shop drawings or Manufacturer's literature for all items of this section for acceptance prior to installation in accordance with SECTION 01340.

1.3 QUALITY ASSURANCE

- A. Codes and Standards: Comply with the provisions of the following codes, specifications and standards, except as otherwise shown or specified:
  - 1. International Building Code, 2003 Edition
  - 2. Fair Housing Amendments Act of 1988
  - 3. Americans with Disabilities Act of 1990

**PART 2 PRODUCTS**

2.1 MATERIALS

- A. Toilet Tissue Dispenser: Shall be Model No. 5263 Stainless Steel Shelf and Toilet Paper Holder, as manufactured by Bradley, Corp., or approved equal.
- B. Paper Towel Dispenser: Shall be Model No. 250-15 Paper Towel Dispenser, as manufactured by Bradley, Corp., or approved equal.
- C. Grab Bars: Shall be Model No. 8122-0593654 Grab Bar, as manufactured by Bradley, Corp., or approved equal.
- D. Waste Receptacles: Shall be Model No. 377 Free Standing Swing Top Waste Receptacle, as manufactured by Bradley, Corp., or approved equal.

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- E Sanitary Napkin Disposal: Shall be Model No. 4781-15 Surface Mounted Sanitary Napkin Disposal Unit , as manufactured by Bradley, Corp., or approved equal.
- F Soap Dispenser (Wall Mounted): Shall be Model No. 6562, Liquid Soap Dispenser, as manufactured by Bradley, Corp., or approved equal.
- G. Towel Hook (At shower only): Shall be Model No. 9311 Towel Hook, as manufactured by Bradley, Corp., or approved equal.
- H. Seat Cover Dispenser, Shall be Model No. 583 surface mounted Seat Cover Dispenser, as manufactured by Bradley, Corp., or approved equal.
- I. Mirrors: Shall be 1/4" thick quality polished plate glass, silver coated and hermetically sealed with a uniform coating of electrolytic copper plating, guaranteed for 15 years against silver spoilage. Mirrors shall meet Federal Specification #DD-M-411B. Mirrors shall be mounted with continuous top and bottom "J" channels and wall mounting brackets. Mirrors shall be locked to brackets by means of theft-resistant set screws. Mirrors shall be 24" x 36". Verify sizes in field prior to fabrication.

**PART 3 EXECUTION**

3.1 INSTALLATION

- A. General: Installer shall coordinate with General Contractor to verify that adequate backing has been installed for proper installation of toilet accessories. Do not start installation of toilet accessories until verification of adequate backing had been completed.
- B. Installation: Installation of all toilet accessories shall be in strict accordance with manufacturer's written instructions and approved submittals.
- C. Mounting Heights: Shall be in accordance with applicable local, State and Federal codes for accessibility by the disabled.

**END OF SECTION**

**SECTION 10801**

**COMPOST TOILET**

**PART 1 GENERAL**

1.1 DESCRIPTION OF WORK

- A. This work includes all labor, materials and equipment necessary to provide and install a pre-fabricated Compost Toilet System to the lines and grades as shown on the project drawings at the Innaha project site.
- B. The system shall be a self contained unit providing for a two stall ADA accessible building, waterless toilet, fixtures, ventilation fans, grab rails, toilet paper holders, Alcolgel soap dispensers and soap, 12 hour solar power system for the ventilation fans and all related items to properly function.
- C. The compost facility shall have board and batten exterior matching the style and color of the buildings on site. The roof shall be metal similar in type and color as referenced in SECTION 07610.

1.2 RELATED WORK

- |   |               |
|---|---------------|
| A. Site Preparation                               | SECTION 02100 |
| B. Earthwork                                      | SECTION 02200 |
| C. Structural Excavation, Backfill and Compaction | SECTION 02220 |
| D. Aggregate Base Course and Surfacing            | SECTION 02232 |
| E. Cast in Place Concrete                         | SECTION 03300 |

1.3 SUBMITTALS

- A. Shop Drawings: Submit shop drawings for all pre-manufactured units in accordance with SECTION 01340.
- B. The manufacturer is responsible for details and dimensions not controlled by the job conditions and shall show on their shop drawings all required field measurements beyond their control. The Contractor and Manufacturer shall cooperate to establish and maintain field dimensions.
- C. Listing of all components (product specifications) meeting or exceeding the proposed product.

## **PART 2 PRODUCTS**

### **2.1 MATERIALS**

- A. The product specified is a Clivus Multrum M-54 Double Compost Toilet or approved equal.

The contact person for this product is:

Brian Barry  
Clivus Multrum Inc.  
Lawrence, Ma.  
800-425-4887

#### **Clivus Multrum M54Double Specifications**

**The M54Double is certified by the National Sanitation Foundation under Standard 41.**

#### **I. Compost Bases:**

- a. Length: 118" Width: 65.5" Height: 48"
- b. Capacity for daily use at average temp.  $\geq 65^{\circ}$  F. 60 visits
- c. Annual use at average temp  $\geq 65^{\circ}$  F. 22,000 visits
- d. Constructed of high density linear polyethylene
  1. Density (ASTM 4883) 0.942 TG/CM<sup>3</sup>
  2. Tensile strength at yield (ASTM D638) 2700 PSI
  3. Dart Impact @ -40° C, 250 mils: 175 ft-lbs.
  5. Evt. stress crack resistance (ASTM D1693) > 400 hrs.
- e. Solids storage capacity: 604 gallons
- f. Liquid storage capacity: 300 gallons

#### **II. Roof Design:**

- a. Steel-frame construction
- b. 1/2 plywood substrate for field application of finish surface
- c. 25-year asphalt shingle
- d. Gable ends have 1/4" pebble finish lexan windows

#### **III. Ventilation Tubes:**

- a. Length: 10' Diameter: 4"
- b. Color: black
- c. Constructed from Schedule 40 ABS plastic

#### **IV. Toilets:**

- a. Handicapped toilet; seat 18" above floor
- b. Toilet stool is constructed of impervious reinforced fiberglass with an industrial grade gel-coat
- c. Seat and lid are molded from ABS plastic

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- d. Liner is rotationally molded from polypropylene
- e. Connecting chute is 14" dia. and 10" high, polyethylene as above

V. **Walls:**

- a. Expanded Polystyrene (EPS) panel core:  
Virgin expanded polystyrene with a minimum 2.0 lb./cu. ft. density, having a K factor of .24 BTU/sq. ft./hr. at 40° F. mean temperature per (ASTM C-578-87a type IV)
- b. Exterior Wall Panel Facing:  
5/8" T1-11 plywood  
3/4" grooves 9" on-center
- c. Standard exterior is unpainted; custom colors available  
Interior Wall Panel Facing:
- d. .060 FRP over 7/16 OSB
- f. Interior color: white

VI. **Doors:**

- a. Inside and outside surfaces are .060 aluminum
- b. Expanded polystyrene core (2lb density)
- c. Anodized aluminum trim
- d. Continuous stainless steel hinge
- e. Pneumatic door closer

VII. **Floor Panel Facings:**

- a. Bottom side .032 MH type 2 embossed pre-painted aluminum
- b. Standard off-white paint finish, .07 to 1.0 mil two coat system, off-white siliconized polyester USDA & FDA approved with .3 mil reverse coat primer
- c. Top surface is .060 aluminum
- d. Top surface coating is a two-part polyamide epoxy primer with an aliphatic acrylic high-gloss urethane with aluminosilicate, non-slip additive
- e. Floor color top surface: gray
- f. Hatch construction same as floor. Size: length 30"; width 67"

VIII. **Door Knob Assemblies:**

- a. Conforms to ANSI A156.2, Series 4000 Grade 1; UL listed
- b. Lever handle is nickel plated, zinc alloy; latch and chassis are brass, corrosion-treated steel, or stainless steel
- c. Lever handle is approximately 4 3/4" long (from center line of chassis), conforms to California Administrative Code Title 19 and title 24, and to Illinois Accessibility Standard

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**IX. Fans:**

- a. 100 CFM
- b. Nominal voltage 12
- c. Power input 17w
- d. Ball bearing motor
- e. Life expectancy at 40° C 77,500 hrs.
- f. CSA, UL, listed

**X. Solar Components:**

- a. Solar panel is a 12v output from semicrystalline solar cells laminated between sheets of ethylene vinyl acetate (EVA) and tempered glass with light blue Tedlar backsheet
- b. Superstrate is self-cleaning, highly transmissive impact resistant glass.
- c. Extruded aluminum mounting frame with clear anodized finish
- d. Battery is a maintenance-free, valve regulated, sealed lead acid battery, designed for deep cycle photovoltaic application.
- e. Charger is a negative-ground switching shunt regulator housed in an anodized aluminum chassis and encapsulated in a hard epoxy resin
- f. 1 - 16 amp charging
- g. 100% solid state
- h. Blocking diode
- i. Charger mounted in a waterproof NEMA box

**XI Grab Bars:**

- a. 1 1/4" stainless steel with white vinyl powder coat
- b. length: 42" each; two supplied
- c. ADA approved

**XII. Toilet Paper Dispensers:**

- a. Made of vandal resistant 1/4" thick steel with white enamel finish
- b. Two roll capacity
- c. Supplied with security lock

**PART 3 EXECUTION**

**3.1 INSTALLATION**

- A. Install the work plumb, level, straight with no distortions so that the doors, connection and vent systems operate properly.
- B. Prepare the proper base materials, provide for required fill material, and provide needed compaction to achieve 95% maximum density per ASTM 1557.
- C. Install required walkway and related items.

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- D. Provide for a 1 year supply of toilet paper and alcogel soap based the manufactures recommended of use.

**END OF SECTION**