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SECTION 102813.63 - DETENTION TOILET ACCESSORIES

TIPS:

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PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Detention safety hooks.
2. Detention shelves.
3. Combination detention shelves with safety hooks.
4. Miscellaneous detention toilet accessories.
5. Detention mirrors.

B. Related Requirements:

1. Section 102800 "Toilet, Bath, and Laundry Accessories" for nondetention toilet accessories.

1.2 COORDINATION

- A. Detention Specialist: Coordinate with Section 013513.16 "Special Project Procedures for Detention Facilities" for requirements of this Section that are to be performed by a Detention Specialist or other entity.
- B. Coordinate installation of anchorages for detention toilet accessories. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in adjoining construction. Deliver such items to Project site in time for installation.
- C. Coordinate size and location of recesses in wall construction to receive recessed detention toilet accessories.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at **[Project site]** <Insert location>.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Sustainable Design Submittals:
 1. Product Data: For sealants, indicating VOC content.
 2. Laboratory Test Reports: For sealants, indicating compliance with requirements for low-emitting materials.
- C. Samples for Verification: For each type of detention toilet accessory indicated.
 1. Approved full-size Samples will be returned and may be used in the Work.
- D. Product Schedule: For detention toilet accessories. Indicate types, quantities, sizes, and installation locations by room of each accessory required. **[Use same designations indicated on Drawings.]**

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Location of each built-in anchor supporting detention toilet accessories, including anchors to be installed as work of other Sections, drawn to scale, on

which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Locations, dimensions, and profiles of wall and floor reinforcements.
 2. Locations and installation details of built-in anchors.
 3. Elevations of each detention toilet accessory showing dimensions of accessory, preparations for receiving anchors, and locations of anchorage.
 4. Details of attachment of each detention toilet accessory to built-in anchors.
- B. Examination reports documenting inspection of substrates, areas, and conditions.
- C. Anchor inspection reports documenting inspections of built-in and cast-in anchors.
- D. Field quality-control certification signed by Contractor[**and Detention Specialist**].

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For detention toilet accessories to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Security Fasteners: Furnish not less than 1 box for each 50 boxes or fraction thereof, of each type and size of security fastener installed.
 2. Tools: Provide [**two**] <Insert number> sets of tools for installing and removing security fasteners.

1.8 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace detention toilet accessories that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
 - a. Structural failures including deflection exceeding **1/4 inch (6.3 mm)**.
 - b. Faulty operation of hardware.
 - c. Deterioration of metals, metal finishes, and other materials.
 - d. <Insert failure modes>.
 2. Warranty Period: [**Two**] <Insert number> years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 DETENTION SAFETY HOOKS

- A. Individual, Straight, Detention Safety Hook: **3/8-inch- (9.5-mm-)** diameter, stainless steel straight hook held by **0.078-inch- (1.98-mm-)** thick, stainless steel mounting plate approximately **5-1/8 inches (130 mm)** square. Provide pivoting assembly that maintains pressure on hook and snaps down when load exceeds **40 lbf (178.0 N)**.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model **[1829] [1830]** Auto-Release Clothes Hook or comparable product by one of the following:
 - a. Willoughby Industries.
 - b. American Specialties, Inc.
 - c. **<Insert manufacturer's name>**.
 2. Mounting: **[Front mounting with security fasteners] [Chase mounting with welded anchor nuts on backplate][with optional wall sleeve]**.
 3. Stainless Steel Mounting Plate:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.
 - c. Ligature-resistant sloped edge.
- B. Multiple, Straight, Safety Hook Strip: Minimum **5-1/2-inch- (140-mm-)** high backplate by length indicated, formed from **0.078-inch- (1.98-mm-)** thick, stainless steel sheet. Provide **3/8-inch- (9.5-mm-)** diameter, stainless steel straight hooks attached to backplate. Provide pivoting assembly that maintains pressure on hook and snaps down when load exceeds **40 lbf (178.0 N)**.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model **[1827] [1828]** Auto-Release Clothes Hook or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. **<Insert manufacturer's name>**.
 2. Configuration: **[19 inches (483 mm) long with four hooks] <Insert length and number of hooks>**.
 3. Mounting: **[Front mounting with security fasteners] [Chase mounting with welded anchor nuts on backplate][with optional wall sleeve]**.
 4. Stainless Steel Mounting Plate:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.
 - c. Ligature-resistant sloped edge.

2.2 DETENTION SHELVES

- A. Surface-Mounted, Stainless Steel Detention Shelf: Minimum **2-1/2 inches high by 4 inches (63 mm high by 102 mm)** deep by [**16 inches (406 mm)**] [**17-1/2 inches (438 mm)**] <Insert dimension> long; formed from **0.078-inch- (1.98-mm-)** thick, stainless steel sheet; with welded side gussets and enclosed front[**and holes for four integral toothbrush holders**].
1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model [**1821**] [**1822**] Shelf[**with Integral Toothbrush Holders**] or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. <Insert manufacturer's name>.
 2. Mounting: Chase mounting with welded anchor nuts on backplate[**with optional wall sleeve**].
 3. Stainless Steel Shelf:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.
- B. Surface-Mounted, Stainless Steel Detention Shelf: Minimum **7 inches high by 8-3/4 inches (178 mm high by 222 mm)** deep by [**20 inches (508 mm)**] <Insert dimension> long; formed from **0.078-inch- (1.98-mm-)** thick, stainless steel sheet; with welded side gussets and hemmed front edge.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model [**1825**] [**1826**] Bookshelf or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. <Insert manufacturer's name>.
 2. Mounting: [**Front mounting with security fasteners**] [**Chase mounting with welded anchor nuts on backplate**][**with optional wall sleeve**].
 3. Stainless Steel Mounting Plate:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.
 - c. Ligature-resistant sloped edge.
- C. Recessed, Stainless Steel Detention Shelf: Minimum inside dimensions of [**16 inches (406 mm)**] <Insert dimension> wide by **5 inches high by 4 inches (127 mm high by 102 mm)** deep; formed from **0.062-inch- (1.57-mm-)** thick, stainless steel sheet; with **1-inch- (25.4-mm-)** wide flanged front edge. Secure to wall with rear-mounting steel strap and adjustment bolts.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model 1820 Recessed Shelf or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. **<Insert manufacturer's name>**.
2. Stainless Steel Shelf:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.

2.3 COMBINATION DETENTION SHELVES WITH SAFETY HOOKS

- A. Stainless Steel Detention Shelf with Multiple, Straight Safety Hooks: Minimum **7 inches high by 8-3/4 inches (140 mm high by 222 mm)** deep by length indicated; formed from **0.078-inch (1.98-mm-)** thick, stainless steel sheet; with welded side gussets and hemmed or flanged front edge. Provide **3/8-inch (9.5-mm-)** diameter, stainless steel straight hooks held by **0.078-inch (1.98-mm-)** thick, stainless steel mounting plate[**with optional wall sleeve**]. Provide pivoting assembly that maintains pressure on hook and snaps down when load exceeds **40 lbf (178.0 N)**.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model [1823] [1824] Bookshelf with Hooks or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. **<Insert manufacturer's name>**.
 2. Configuration: [**20 inches (178 mm) long with four hooks**] **<Insert length and number of hooks>**.
 3. Mounting: [**Front mounting with security fasteners**] [**Chase mounting with welded anchor nuts on backplate**].
 4. Stainless Steel Mounting Plate:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.
 - c. Ligature-resistant sloped edge.

2.4 MISCELLANEOUS DETENTION TOILET ACCESSORIES

- A. Recessed, Detention Toilet Tissue Holder: Minimum **5-inch diameter by 4-1/2 inches (127-mm diameter by 114 mm)** deep; formed from **0.078-inch (1.98-mm-)** thick, stainless steel sheet. Secure to wall with [**front-mounting plate and tamper-resistant screws**] [**rear-mounting steel strap and adjustment bolts**][**and optional wall sleeve**].

1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model [1840] [1840-FA] Recessed Paper Holder or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. **<Insert manufacturer's name>**.
2. Face: **7-inch- (178-mm-)** square face flange.
3. Stainless Steel Mounting Plate:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.
 - c. Ligature-resistant beveled edge.

B. Recessed, Detention Soap Dish: Minimum inside dimensions of **5-1/2 inches wide by 3-5/8 inches high by 2-1/2 inches (140 mm wide by 92 mm high by 70 mm)** deep with **7 inches wide by 5 inches high (178 mm wide by 127 mm high)** face; formed from **0.062-inch- (1.57-mm-)** thick, stainless steel sheet. Secure to wall with rear-mounting steel strap and adjustment bolts[**and optional wall sleeve**].

1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model 1832 Recessed Soap Dish or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. **<Insert manufacturer's name>**.
2. Stainless Steel Soap Dish:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Finish: Exposed surfaces polished to No. 4 satin finish.
 - c. Ligature-resistant beveled edge.

2.5 DETENTION MIRRORS

- A. Large, Framed Detention Mirror with Round Corners: Formed from a single sheet of **0.078-inch- (1.98-mm-)** thick, stainless steel; enclosed in a metal frame.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Penal-Ware Model [1810] [1811] [1812 HC] [1813 HC] Framed Mirror or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. **<Insert manufacturer's name>**.

2. Size: [12 by 16 inches (305 by 406 mm)] [12 by 22-1/2 inches (305 by 572 mm)] <Insert dimensions>.
3. Mirror Reflective Material: [Stainless steel] [Plexiglass] [Laminated glass].
4. Frame:
 - a. Material Standard: ASTM A666, ASTM A240/A240M, Type 304 (18-8).
 - b. Formed from 0.078-inch- (1.98-mm-) thick, stainless steel sheet. Fabricate frame with welded and ground corners or from one piece of metal.
 - c. Finish: Exposed surfaces polished to No. 4 satin finish.
5. Mounting: [Front mounting with security fasteners to 0.168-inch (4.27-mm) nominal-thickness, metallic-coated steel mounting plate] [Chase mounting with welded anchor nuts on backplate][and optional wall sleeve].

B. Large, Integrally Framed Detention Mirror with Round Corners: Mirror and integral frame formed from type 400 series, 0.050-inch- (1.27-mm-) thick stainless steel sheet, polished to a mirror finish.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Acorn Engineering Company; Model 1817-A Front-Mounted Integral Frame Security Mirror or comparable product by one of the following:
 - a. American Specialties, Inc.
 - b. Willoughby Industries.
 - c. <Insert manufacturer's name>.
2. Size: Nominal 11 by 17 inches (286 by 438 mm).
3. Mounting: Front mounting with security fasteners.

2.6 FABRICATION

- A. Coordinate dimensions and attachment methods of detention toilet accessories with those of adjoining construction to produce integrated assemblies with closely fitting joints and with edges and surfaces aligned unless otherwise indicated.
- B. Shear and punch metals cleanly and accurately. Remove burrs.
- C. Form edges and corners to be free of sharp edges and rough areas. Fold back exposed edges of unsupported sheet metal to form a 1/2-inch- (12.7-mm-) wide hem on the concealed side, or ease edges to a radius of approximately 1/32 inch (0.8 mm) and support with concealed stiffeners.
- D. Form metal in maximum lengths to minimize joints. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- E. Weld corners and seams continuously to comply with referenced AWS standard and the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 2. Obtain fusion without undercut or overlap.
 3. Remove welding flux immediately.
 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
 5. Weld before finishing components to greatest extent possible. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- F. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure detention toilet accessories rigidly in place and to support expected loads. Build in straps, plates, and brackets as needed to support and anchor fabricated items to adjoining construction. Reinforce formed-metal units as needed to attach and support other construction.
- G. Cut, reinforce, drill, and tap detention toilet accessories to receive hardware, security fasteners, and similar items.
- H. Form exposed work true to line and level with accurate angles and surfaces. Grind off and ease edges unless otherwise indicated.
- I. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible. Use exposed security fasteners of type indicated or, if not indicated, flat-head (countersunk) security fasteners. Locate joints where least conspicuous.

2.7 SECURITY FASTENERS

- A. Operable only by tools produced by fastener manufacturer or other licensed fabricator for use on specific type of fastener. Drive-system type, head style, material, and protective coating as required for assembly, installation, and strength, and as follows:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Acument Global Technologies; Acument Intellectual Properties, LLC.
 - b. Bryce Fastener.
 - c. Safety Socket LLC.
 - d. Tamper-Pruf Screws.
 - e. **<Insert manufacturer's name>**.
 2. Drive-System Type: [**Pinned Torx-Plus**] [**Pinned Torx**] **<Insert system>**.
 3. Fastener Strength: [**120,000 psi (827 MPa)**] **<Insert value>**.
 4. Socket Button Head Fasteners:
 - a. Heat-treated alloy steel, ASTM F835.
 - b. Stainless steel, **ASTM F879 (ASTM F879M)**, Group 1 CW.
 5. Socket Flat Countersunk Head Fasteners:

- a. Heat-treated alloy steel, ASTM F835.
 - b. Stainless steel, **ASTM F879** (**ASTM F879M**), Group 1 CW.
6. Socket Head Cap Fasteners:
- a. Heat-treated alloy steel, ASTM A574.
 - b. Stainless steel, **ASTM F837** (**ASTM F837M**), Group 1 CW.
7. Protective Coatings for Heat-Treated Alloy Steel:
- a. Zinc and clear trivalent chromium where indicated.
 - b. Zinc phosphate with oil, ASTM F1137, Grade I, or black oxide unless otherwise indicated.

2.8 SECURITY SEALANTS

- A. Polyurethane Security Sealants: Manufacturer's standard, nonsag, tamper-resistant sealant for joints with low movement.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BASF Corporation.
 - b. Pecora Corporation.
 - c. **<Insert manufacturer's name>**.
 2. Sealant to have a VOC content of 250 g/L or less.
 3. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
 4. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
 5. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Formaldehyde emissions will not exceed 9 mcg/cu. m or 7 ppb, whichever is less.
 6. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
 7. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." The building concentration of formaldehyde will not exceed half of the indoor recommended exposure limit, or 33 mcg/cu. m, and that of acetaldehyde will not exceed 9 mcg/cu. m.
- B. Epoxy Security Sealants: Manufacturer's standard, nonsag, tamper-resistant sealant for joints with no movement.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BASF Corporation.
 - b. Euclid Chemical Company (The); an RPM company.
 - c. Pecora Corporation.
 - d. **<Insert manufacturer's name>**.
2. Sealant to have a VOC content of 250 g/L or less.
3. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
4. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
5. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Formaldehyde emissions will not exceed 9 mcg/cu. m or 7 ppb, whichever is less.
6. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
7. Sealant to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." The building concentration of formaldehyde will not exceed half of the indoor recommended exposure limit, or 33 mcg/cu. m, and that of acetaldehyde will not exceed 9 mcg/cu. m.

2.9 ACCESSORIES

- A. Concealed Bolts: ASTM A307, Grade A unless otherwise indicated.
- B. Cast-in-Place Anchors in Concrete: Fabricated from corrosion-resistant materials capable of sustaining, without failure, a load equal to **[four]** **<Insert safety factor>** times the load imposed, as determined by testing in accordance with ASTM E488/E488M, conducted by a qualified testing agency; of type indicated below:
 1. Threaded or wedge type; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed; hot-dip galvanized in accordance with ASTM A153/A153M or ASTM F2329/F2329M.
- C. Embedded Plate Anchors: Fabricated from mild steel shapes and plates, minimum **3/16 inch (4.8 mm)** thick; with minimum **1/2-inch- (12.7-mm-)** diameter, headed studs welded to back of plate.
- D. Proprietary Built-in Masonry Anchors: Fabricated from **[0.134-inch (3.42-mm) nominal-thickness steel sheet]** **[1/4-inch (6-mm) nominal-thickness steel plate]** **[1/2-inch (12.7-mm) nominal-thickness steel plate]** into **[6-inch- (152-mm-)]** **[8-inch- (203-mm-)]** deep blocks

matching size of concrete masonry units[; **with weld nuts attached on inside to receive field-bolted attachments**].

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. M/BED Block Systems, LLC.
 - b. **<Insert manufacturer's name>**.
2. Finish: **[Factory primed for field painting for anchors with field-welded attachments] [Polyester powder coat for anchors with bolted attachments] [Epoxy paint for anchors with bolted attachments]**.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of detention toilet accessories.
- B. Examine roughing-in for embedded and built-in anchors to verify actual locations of detention toilet accessory connections before detention toilet accessory installation.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of detention toilet accessories.
- D. Inspect built-in and cast-in anchor installations before installing detention toilet accessories to verify that anchor installations comply with requirements. Prepare inspection reports.
 1. Remove and replace anchors where inspections indicate that they do not comply with specified requirements. Reinspect after repairs or replacements are made.
 2. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.
- E. Verify locations of detention toilet accessories.
- F. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing detention toilet accessories to in-place construction. Include threaded fasteners for **[concrete]** **[and]** **[masonry]** inserts, security fasteners, and other connectors.
- B. Provide temporary bracing or anchors in formwork for items that are to be built into **[concrete]** **[or]** **[masonry]** or similar construction.

- C. Apply [**polyurethane**] [**epoxy**] security sealant around perimeter in a continuous ribbon on back of detention toilet accessories before installation.
- D. Security Fasteners: Install detention toilet accessories using security fasteners with head style appropriate for installation requirements, strength, and finish of adjacent materials.[**Provide stainless steel security fasteners in stainless steel materials.**]

3.3 FIELD QUALITY CONTROL

- A. Inspect installed products to verify compliance with requirements. Prepare inspection reports and indicate compliance with and deviations from the Contract Documents.
- B. Remove and replace detention work where inspections indicate that work does not comply with specified requirements.
- C. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.
- D. Prepare field quality-control certification[**endorsed by Detention Specialist**] that states installed products and their installation comply with requirements in the Contract Documents.

3.4 ADJUSTING AND CLEANING

- A. Remove temporary labels and protective coatings.

END OF SECTION 102813.63