



SECTION 10 21 13 – TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes toilet compartments and screens as follows:
 - 1. Type: Stainless steel.
 - 2. Compartment Style: Ceiling hung with intermittent floor support every 2-3 compartments.
 - 3. Screen Style: Wall hung.

1.2 SUBMITTALS

- A. Product Data: For each product indicated.
- B. Shop Drawings: Include plans, elevations, sections, details of installation, and attachments to other work and hardware.

NOTE: The shop drawings shall accurately indicate existing field conditions. Perform a dimensional field survey of as-built conditions prior to submitting shop drawings.

- C. Samples: For each exposed finish and for each color and pattern required.
- D. Maintenance manuals

1.3 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's Americans with Disabilities Act (ADA), Architectural Barriers Act (ABA), and Accessibility Guidelines for Buildings and Facilities and the City of Los Angeles Building Code.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to approval by LAWA.
 - 1. Hadrian Manufacturing- Stainless Steel Embossed
 - a. Approved Equal subject to review and approval by LAWA
 - (1) Bradley Corporation - Stainless Steel 5WL texture
 - (2) Metpar Corporation – Stainless Steel 5SM pattern

2.2 MATERIALS

- A. Panel, Pilaster, Screen and Door Material:
 - 1. Stainless-Steel Sheet: ASTM A666, Type 304, stretcher-leveled flatness, patterned.
 - 2. Submit sample to LAWA for pattern approval.



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2.3 FABRICATION

- A. Toilet Compartments: Ceiling hung with intermittent floor support every 2-3 compartments. Floor support pilaster to have stainless steel shoes that completely surrounds the pilaster without any voids.
- B. Urinal Screens: Wall hung, with continuous stainless steel support angles with stainless steel vandal resistant screws.
- C. Metal Units: Internally reinforce metal panels for hardware, accessories, and grab bars.
- D. Doors: Unless otherwise approved by LAWA, 24 inch wide **out-swinging doors** for standard toilet compartments and 36 inch wide **out-swinging doors** with a minimum 32 inch wide clear opening for compartments indicated to be accessible to people with disabilities.
 - 1. In new construction, one set of 48 inch **out-swinging doors** shall be provided in compartments indicated to be accessible to people with disabilities.
- E. Door Hardware: Stainless steel. Provide units that comply with accessibility requirements of authorities having jurisdiction at compartments indicated to be accessible to people with disabilities.
- F. Accessible Toilet Stalls shall display a rectangular decal, 9"W x 3"H, white letters on blue background specifying "PRIORITY FOR PERSONS WITH DISABILITIES".



PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install units rigid, straight, level, and plumb, with not more than 1/4 inch between pilasters and panels and not more than 3/4 inch between panels and walls. Provide brackets, pilaster shoes, bracing, and other components required for a complete installation. Use theft-resistant exposed fasteners finished to match hardware. Use sex-type bolts for through-bolt applications.

NOTE:

Partition Pilasters supporting adjacent partitions with accessible grab bars will extend to the floor with a stainless steel shoe. Floor to ceiling pilasters shall be located at all corners of toilet stall partition that are not supported by adjacent wall. No pilasters less than 6 inches will be used where mounting brackets or hardware is used.

Locked partition doors shall be removable by lifting the door up and off the hinges with special tools. Doors at unoccupied stalls will be held partially open (30 degrees) in a consistent and uniform position.

Coat hooks will be installed inside of each compartment wall at centerline and 6 inches below top of door except at accessible stalls where the maximum is 48" above finish floor. Coat hooks shall bear a minimum of 150 lbs.

Coordinate with the structural specifications for the steel member concealed in the ceiling that supports the ceiling hung toilet compartments. Structural beams shall be installed for anchoring ceiling hung partitions. Indicate this steel support on the drawings.

END OF SECTION 10 21 13



SECTION 10 26 00 – WALL AND DOOR PROTECTION

NOTE: This guide specification covers the basic requirements for Decorative Metals.

Incorporate this information into the specifications for your project. For any deviations, please discuss with your designated LAWA representative.

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Decorative wall protection.
 - 2. Metal base.

NOTE: All walls within the public areas are to receive stainless steel wall and corner protection including a 12 inch high stainless steel base. This protection is deemed necessary for the walls of the public areas in order to protect the wall finish from luggage carts and other sources of high impact.

1.2 ACTION SUBMITTALS

- A. Shop Drawings: Show fabrication and installation details for decorative metal.
 - 1. Include plans, elevations, component details, and attachments to other work.
 - 2. Indicate materials, gauges and profiles of each decorative metal member, fittings, joinery, finishes, fasteners, anchorages, and accessory items.
- B. Samples for Verification: For each type of exposed finish required.
 - 1. Sections of linear shapes.
 - 2. Samples of welded joints showing quality of workmanship.

1.3 INFORMATIONAL SUBMITTALS

- A. Welding certificates.

1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: A firm experienced in producing decorative metal similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

1.5 COORDINATION

- A. Coordinate installation of anchorages for decorative metal items. 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 concrete or masonry. Deliver such items to Project site in time for installation.



PART 2 - PRODUCTS

2.1 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. Provide materials without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

2.2 STAINLESS STEEL

- A. Castings: ASTM A743/A743M, Grade CF 8 or CF 20.
- B. Sheet, Strip, Plate, and Flat Bar: ASTM A666, Type 304.

2.3 FASTENERS

- A. Fastener Materials: Unless otherwise indicated, provide the following:
 - 1. Stainless-Steel Items: Type 304 stainless-steel fasteners.
- B. Fasteners for Anchoring to Other Construction: Unless otherwise indicated, select fasteners of type, grade, and class required to produce connections suitable for anchoring indicated items to other types of construction indicated.
- C. Provide concealed fasteners for interconnecting components and for attaching decorative metal items to other work unless exposed fasteners are unavoidable.
 - 1. Provide Phillips flat-head machine screws for exposed fasteners unless otherwise indicated.
- D. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.

2.4 MISCELLANEOUS MATERIALS

- A. Laminating Adhesive: Adhesive recommended by metal fabricator that will fully bond metal to metal and that will prevent telegraphing and oil canning and is compatible with substrate and noncombustible after curing.
 - 1. Contact Adhesive: VOC content of not more than 80 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.5 FABRICATION, GENERAL

- A. Assemble items in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
- B. Form decorative metal to required shapes and sizes, true to line and level with true curves and accurate angles and surfaces. Finish exposed surfaces to smooth, sharp, well-defined lines and arris.
- C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing the Work.



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- D. Form simple and compound curves in bars by bending members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces.
- E. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- F. Mill joints to a tight, hairline fit.
- G. Grind smooth and polish exposed metal edges and corners.
- H. Provide necessary rebates, lugs, and brackets to assemble units and to attach to other work. Cut, reinforce, drill, and tap as needed to receive finish hardware, screws, and similar items unless otherwise indicated.
- I. Comply with AWS for recommended practices in shop welding. Weld behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded joints of flux, and dress exposed and contact surfaces.
 - 1. Where welding cannot be concealed behind finished surfaces, finish joints to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 Welds: no evidence of a welded joint.
- J. Provide castings that are sound and free of warp, cracks, blowholes, or other defects that impair strength or appearance. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks.

2.6 DECORATIVE WALL PROTECTION

- A. Bumper Rail: Assembly consisting of continuous metal bars and wall brackets; designed to withstand impacts.
 - 1. Rail: Stainless steel flat bar, in dimensions and profiles indicated on Drawings.
 - 2. Wall Bracket: Cast stainless-steel shape, in dimensions and profiles indicated on Drawings
 - 3. Finish: Directional satin, No. 4.
 - 4. Accessories: Anchors to connect bumper rail to other work.
 - 5. Mounting: Surface mounted directly to wall.
- B. Surface-Mounted, Metal Corner Guards: Fabricated from metal bars welded to two mounting brackets. Interconnect corner guard components with full-length, full penetration welds. Use welding method that is appropriate for metal and finish indicated and that develops full strength of members joined. Finish exposed welds and surfaces smooth, flush, and blended to match adjoining surfaces.
 - 1. Material: Stainless steel, Type 304.
 - 2. Bar: 1/2-inch-diameter stainless-steel bar.
 - 3. Mounting Brackets: Fabricated from one-piece, formed or extruded stainless steel with formed edges; with 90- or 135-degree turn to match wall condition
 - a. Wing Size: 1-1/2 inches high by 1 inch wide.
 - b. Corner Radius: 1/8 inch.



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- c. Mounting: Flat-head, countersunk screws through factory-drilled mounting holes.

2.7 METAL BASE

- A. Form metal base from stainless-steel sheet, No. 4 finish, thickness as indicated on Drawings.

2.8 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

2.9 STAINLESS-STEEL FINISHES

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1. Run grain of directional finishes with long dimension of each piece.
- C. Directional Satin Finish: No. 4.
- D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of decorative metal.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Provide anchorage devices and fasteners where needed to secure decorative metal to in-place construction.
- B. Perform cutting, drilling, and fitting required to install decorative metal. Set products accurately in location, alignment, and elevation, measured from established lines and levels.
- C. Fit exposed connections accurately together to form tight, hairline joints or, where indicated, uniform reveals. Where cutting, welding, and grinding are required for proper shop fitting and jointing of decorative metal, restore finishes to eliminate evidence of such corrective work.
- D. Do not cut or abrade finishes that cannot be completely restored in the field. Return items with such finishes to the shop for required alterations, followed by complete refinishing, or provide new units as required.
- E. Restore protective coverings that have been damaged during shipment or installation. Remove protective coverings only when there is no possibility of damage from other work yet to be performed at same location.



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1. Retain protective coverings intact; remove coverings simultaneously from similarly finished items to preclude non-uniform oxidation and discoloration.

3.3 DECORATIVE WALL PROTECTION INSTALLATION

- A. General: Install decorative wall protection units level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
 1. Install decorative wall protection units in locations and at mounting heights indicated on Drawings.
 2. Provide mounting hardware, anchors, and other accessories required for a complete installation.

3.4 METAL BASE INSTALLATION

- A. Install metal base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
- B. Tightly adhere metal base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- C. On masonry surfaces or other similar irregular substrates, fill voids along top edge of metal base with manufacturer's recommended adhesive filler material.

3.5 CLEANING AND PROTECTION

- A. Unless otherwise indicated, clean metals by washing thoroughly with clean water and soap, rinsing with clean water, and drying with soft cloths.
- B. Protect finishes of decorative metal from damage during construction period with temporary protective coverings approved by decorative metal fabricator. Remove protective covering at time of Substantial Completion.
- C. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION 10 26 00



SECTION 10 26 13 - WALL AND DOOR PROTECTION, CORNER GUARDS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Corner guards.

1.2 ACTION SUBMITTALS

- A. Product Data: Include construction details, material descriptions, impact strength, dimensions of individual components and profiles, and finishes for each impact-resistant wall protection unit.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Obtain corner guards from single source from single manufacturer.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store impact-resistant wall protection units in original undamaged packages and containers inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install impact-resistant wall protection units until building is enclosed and weatherproof, wet work is complete and dry, and HVAC system is operating and maintaining temperature at 70 deg F for not less than 72 hours before beginning installation and for the remainder of the construction period.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Stainless-Steel Sheet: ASTM A 240/A 240M.
- B. Adhesive: As recommended by impact-resistant plastic wall protection manufacturer and with a VOC content of 70 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).



2.2 FASTENERS

- A. Fastener Materials: Unless otherwise indicated, provide the following:
 - 1. Stainless-Steel Items: Type 304 stainless-steel fasteners.
- B. Fasteners for Anchoring to Other Construction: Unless otherwise indicated, select fasteners of type, grade, and class required to produce connections suitable for anchoring indicated items to other types of construction indicated.
- C. Provide concealed fasteners for interconnecting components and for attaching decorative metal items to other work unless exposed fasteners are unavoidable.
 - 1. Provide Phillips flat-head machine screws for exposed fasteners unless otherwise indicated.
- D. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.

2.3 CORNER GUARDS

- A. Surface-Mounted, Metal Corner Guards: Fabricated from one-piece, formed or extruded metal with formed edges; with 90- or 135-degree turn to match wall condition.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Arden Architectural Specialties, Inc.
 - b. Balco, Inc.
 - c. Construction Specialties, Inc.
 - d. Korogard Wall Protection Systems; a division of RJF International Corporation.
 - 2. Material: Stainless steel, Type 304.
 - a. Thickness: Minimum 0.0625 inch.
 - b. Finish: Directional satin, No. 4.
 - 3. Wing Size: Nominal 3-1/2 by 3-1/2 inches.
 - 4. Corner Radius: 1/8 inch.
 - 5. Mounting: Adhesive with flat-head, countersunk screws through factory-drilled mounting holes.

2.4 END-WALL GUARDS

- A. Surface-Mounted, Metal, End-Wall Guards: Fabricated from one-piece, formed or extruded metal that covers entire end of wall; with formed edges.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Arden Architectural Specialties, Inc.
 - b. Balco, Inc.
 - c. Construction Specialties, Inc.



- d. Korogard Wall Protection Systems; a division of RJF International Corporation.
2. Material: Stainless steel, Type 304.
 - a. Thickness: Minimum 0.0625 inch.
 - b. Finish: Directional satin, No. 4.
3. Wing Size: Nominal 3-1/2 by 3-1/2 inches.
4. Corner Radius: 1/8 inch.
5. Mounting: Adhesive.

2.5 FABRICATION

- A. Fabricate impact-resistant wall protection units to comply with requirements indicated for design, dimensions, and member sizes, including thicknesses of components.
- B. Assemble components in factory to greatest extent possible to minimize field assembly. Disassemble only as necessary for shipping and handling.
- C. Fabricate components with tight seams and joints with exposed edges rolled. Provide surfaces free of wrinkles, chips, dents, uneven coloration, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

2.6 METAL FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
 1. Remove tool and die marks and stretch lines, or blend into finish.
 2. Grind and polish surfaces to produce uniform finish, free of cross scratches.
 3. Run grain of directional finishes with long dimension of each piece.
 4. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- B. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and wall areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Examine walls to which impact-resistant wall protection will be attached for blocking, grounds, and other solid backing that have been installed in the locations required for secure attachment of support fasteners.
 1. For impact-resistant wall protection units attached with adhesive or foam tape, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.



- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Complete finishing operations, including painting, and grouting tiles before installing impact-resistant wall protection system components.
- B. Before installation, clean substrate to remove dust, debris, and loose particles.

3.3 INSTALLATION

- A. General: Install impact-resistant wall protection units level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
 - 1. Install impact-resistant wall protection units in locations indicated
 - 2. Provide full height units. Do not splice.

3.4 CLEANING

- A. Immediately after completion of installation, clean corner guards.
- B. Remove excess adhesive using methods and materials recommended in writing by manufacturer.

END OF SECTION 10 26 13



SECTION 10 28 00 – TOILET ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Public-use washroom accessories.
 - 2. Warm-air dryers.
 - 3. Childcare accessories.
 - 4. Under lavatory guards.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated, include the following:
 - 1. Construction details and dimensions.
 - 2. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
 - 3. Material and finish descriptions.
 - 4. Features that will be included for Project.
 - 5. Manufacturer's warranty.
- B. Samples: Full size, for each accessory item to verify design, operation, and finish requirements.
- C. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
- D. Warranty: Sample of special warranty.
- E. Maintenance Data: For toilet and bath accessories to include in maintenance manuals.

1.3 QUALITY ASSURANCE

- A. Source Limitations: For products listed together in the same Part 2 articles, obtain products from single source from single manufacturer.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.



1.4 COORDINATION

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

NOTE: Indicate all accessories on drawings with an accessory schedule. All accessories shall be recessed or semi-recessed. Verify wall thickness for all recessed accessories.

1.5 WARRANTY

- A. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage defects and that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Stainless Steel: ASTM A666, Type 304, 0.031-inch minimum nominal thickness unless otherwise indicated.
- B. Brass: ASTM B19, flat products; ASTM B16/B16M, rods, shapes, forgings, and flat products with finished edges; or ASTM B 30, castings.
- C. Steel Sheet: ASTM A1008/A1008M, Designation CS (cold rolled, commercial steel), 0.036-inch minimum nominal thickness.
- D. Galvanized-Steel Sheet: ASTM A653/A653M, with G60 hot-dip zinc coating.
- E. Galvanized-Steel Mounting Devices: ASTM A153/A153M, hot-dip galvanized after fabrication.
- F. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.
- G. Chrome Plating: ASTM B456, Service Condition Number SC 2 (moderate service).
- H. Mirrors: ASTM C1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.
- I. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.



2.2 PUBLIC-USE WASHROOM ACCESSORIES

- A. Basis-of-Design Product: Subject to LAWA approval, provide and indicate on the drawings the following products:
- 1. Bobrick Washroom Equipment, Inc.**
 - 2. Bradley Corporation**
 - 3. Koala Bear Kare**
 - 4. Toto USA, Inc.**
- B. Toilet Tissue (Jumbo-Roll) Dispenser:
- 1. Basis-of-Design Product: Bobrick 2892.**
 2. Description: Stainless Steel Twin – Jumbo Roll Toilet tissue dispenser.
 3. Material and Finish: Stainless steel, No. 4 finish (satin).
- C. Recessed Paper Towel Dispenser:
- 1. Basis-of-Design Product: Georgia Pacific enMotion #59466**
 2. Mounting: Recessed.
 3. Material and Finish: Stainless steel
 4. Power Supply: Georgia Pacific AC Power External Adapter
- D. Recessed Paper Towel Dispenser and Waste Receptacle:
- 1. Basis-of-Design Product: Georgia Pacific enMotion #59491**
 2. Mounting: Recessed.
 3. Material and Finish: Stainless steel
 4. Power Supply: Georgia Pacific AC Power External Adapter
- E. Recessed Waste Receptacle:
- 1. Basis-of-Design Product: Bobrick B-3644.**
 2. Mounting: Recessed.
 3. Material and Finish: Stainless steel.
- F. Semi Recessed Waste Receptacle:
- 1. Basis-of-Design Product: Bradley 334-10**
 2. Mounting: Semi Recessed.
 3. Material and Finish: Stainless steel.
- G. Waste Receptacle Large Capacity, Stand Alone:
- 1. Basis-of-Design Product: Bobrick B-2280**
 2. Mounting: Stand Alone.



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3. Material and Finish: Stainless steel.
- H. Liquid-Soap Dispenser:
1. **Basis-of-Design Product: Bobrick B-830.**
 2. Description: Sureflo Soap Dispensing System.
- I. Grab Bar (corner):
1. **Basis-of-Design Product: Bobrick B-68137.**
 2. Mounting: Flanges with concealed fasteners.
 3. Material: Stainless steel, 0.05 inch thick.
 4. Outside Diameter: 1-1/4 inches.
 5. Configuration and Length: Corner, 36" x 54".
- J. Grab Bar (straight):
1. **Basis-of-Design Product: Bobrick B-6806 x 36.**
 2. Mounting: Flanges with concealed fasteners.
 3. Material: Stainless steel, 0.05 inch thick.
 4. Outside Diameter: 1-1/4 inches.
 5. Configuration and Length: Straight Bar – 36" long.
- K. Vendor:
1. **Basis-of-Design Product: Bobrick B-2706 25.**
 2. Type: Sanitary napkin and tampon.
 3. Mounting: Fully recessed.
 4. Exposed Material and Finish: Stainless steel, No. 4 finish (satin).
- L. Vendor (alternate):
1. **Basis-of-Design Product: Bobrick B-3706 25.**
 2. Type: Sanitary napkin and tampon.
 3. Mounting: Fully recessed.
 4. Exposed Material and Finish: Stainless steel, No. 4 finish (satin).
- M. Napkin Disposal:
1. **Basis-of-Design Product: Bradley 4781-15**
 2. Type: Sanitary napkin and tampon.
 3. Mounting: Surface mounted.
 4. Exposed Material and Finish: Stainless steel, Standard Series – Satin Finish.
- N. Seat-Cover Dispenser:



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1. **Basis-of-Design Product: Bobrick B – 4221, Contura Series**
 2. Mounting: Surface mounted.
 3. Exposed Material and Finish: Stainless steel, No. 4 finish (satin).
- O. Seat-Cover Dispenser (alternate):
1. **Basis-of-Design Product: Bobrick B – 221, Classic Series**
 2. Mounting: Surface Mounted.
 3. Exposed Material and Finish: Stainless steel, No. 4 finish (satin).
- P. Mirror Unit:
1. **Basis-of-Design Product: Bobrick B-290.**
 2. Mounting: Mechanical adhered. Adhering any mirror to any surface is not acceptable. Bottom of mirror frame will be 1” - 2” above backsplash or horizontal surface to limit water accumulation and desilvering.
 3. Frame: Stainless-steel angle.
- Q. Air Freshener:
1. **Basis-of-Design Product: Technical Concepts – Model no. 401375.**
 2. Description: Automatic Air Freshener.

2.3 WARM-AIR DRYERS

- A. Hand Dryer:
1. **Basis-of-Design Product: Toto USA ‘Clean Dry’ HDR111#SS (LAWA Standard)**
 2. Mounting: Recessed.
 3. Exposed Material and Finish: Stainless steel.

2.4 CHILDCARE ACCESSORIES

- A. Diaper-Changing Station:
1. **Basis-of-Design Product: Koala Bear Kare – KB110SSRE.**
 2. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
 3. Mounting: Recessed.
 4. Operation: concealed pneumatic cylinder with hinge structure.
 5. Material and Finish: Stainless steel, No. 4 finish (satin), exterior shell with high density grey polyethylene interior.



2.5 UNDER LAVATORY GUARDS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - 1. **Plumberex Specialty Products, Inc.**
 - 2. **Truebro by IPS Corporation.**
- B. Underlavatory Guard:
 - 1. **Basis-of-Design Product: Truebro Lav Guard 2 E-Z.**
 - 2. Description: Insulating pipe covering for supply and drain piping assemblies that prevent direct contact with and burns from piping; allow service access without removing coverings.
 - 3. Material and Finish: Antimicrobial, molded plastic, white.

2.6 CUSTODIAL ACCESSORIES (Not Used)

2.7 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. The total number of keys for each accessory shall be determined by LAWA.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F446.

3.2 ADJUSTING AND CLEANING

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



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END OF SECTION 10 28 00



SECTION 10 43 13 - DEFIBRILLATOR CABINETS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Custom fabricated automated external defibrillator (AED) cabinets.
 - 2. Automated external defibrillators.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for AED cabinets.
 - 1. Include roughing-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type, trim style, and panel style.
 - 2. Automated External Defibrillator
- B. Shop Drawings: For AED cabinets.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Include plans, elevations, sections, calculations, etc., necessary for review and approval by LAWA Emergency Management Division (EMD), to validate a maximum amount of time of 2-1/2 minutes to retrieve the AED.
 - 3. Telephone Test Plan: Submit test plan for final testing and acceptance of telephone units.
- C. Samples for Initial Selection: For each type of AED cabinet indicated.
- D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below:
 - 1. Size: 6 by 6 inches square.
- E. Telephone Test Plan: Reviewed and Approved by LAWA.

1.3 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For AED cabinets and AEDs.
- B. Keys for AED Cabinets: Two (2) per cabinet.



1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Pre-installation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to AED cabinets including, but not limited to, the following:
 - a. Schedules and coordination requirements.

1.5 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. AED Cabinets: Complete units equal to 2 percent of quantity installed.
 - 2. Alarm Boards with LED's: Ten.

1.6 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Preinstallation Conference: Conduct conference at Project site.

1.7 COORDINATION

- A. Coordinate sizes and locations of AED cabinets with wall depths.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B.
- B. Stainless-Steel Sheet: ASTM A666, Type 304.
- C. Tempered Float Glass: ASTM C1048, Kind KT, Condition A, Type I, Quality q3, 1/8 inch, Class I (clear).

2.2 AED CABINET

- A. Cabinet Type: Suitable for mounting AED with emergency telephone and alarm; match existing AED cabinets;
 - 1. Basis of Design Product: Potter Roemer LLC; Model HSSS7063-D-LAWA-modified as described herein or a comparable product by one of the following:



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- a. **J. L. Industries, Inc., a division of Activar Construction Products Group.**
 - b. **Larsen's Manufacturing Company.**
 - c. **Or Approved Equal.**
- B. Cabinet Construction: Nonrated.
- C. Cabinet Interior Size: 14 inches wide by 22 inches high by 6 inches deep, as required to incorporate AED and specified features. All cabinet components and equipment shall be accessible, removable and replaceable with the cabinet door in a 90 degree position.
- D. Cabinet Material: Stainless-steel sheet.
- E. Recessed Cabinet: Cabinet box recessed in walls of sufficient depth to suit style of trim.
- F. Cabinet Trim Material: Stainless-steel sheet.
- G. Cabinet Door
1. Door Material: 0.062-inch (16ga.) minimum, stainless-steel sheet with vertical brush No. 4 satin finish.
 2. Door Style: Flush with 3-1/2 inch high by 6-3/4 inch wide limited visibility window to match existing; latched, hinged and removable.
 3. Door Graphics: Engraved and epoxy filled to match existing with the following elements:
 - a. Red heart with white "thunderbolt" and black horizontal line and words "AED" immediately below.
 - b. The following text at bottom of door:
Automatic External Defibrillator
EMERGENCY
Pull handle. Medical assistance will be called.
WARNING
AED to be used by trained respondents only. Alarm will sound.
 4. Door Glazing: Tempered float glass (clear) with applied vinyl "heartbeat" graphics to match existing.
 5. Door Hardware: Door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated.
 - a. Provide no. 4, satin finished, stainless-steel, recessed door pull and friction latch of size and style to match existing; operable using one hand without requiring tight grasping, pinching or twisting of the wrist; not requiring a force of more than 5 lbf. to activate.
 - b. Provide continuous hinge, of same material and finish as trim, permitting door to open 180 degrees.
- H. Cabinet Interior Features
1. Emergency Phone Box:
 - a. Stainless-steel box; 0.078-inch (14ga) thick; 10 inches wide by 10-3/4 inches high.



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- b. Back panel: 0.079-inch (14ga) thick.
 - c. Door: Hinged to permit door to swing 180 degrees with screw knob to permit box to be opened; face drilled with a five-layer circular pattern of holes having and increasing size not exceeding 3/8 inch diameter to match existing.
 - d. Opening for raceway: 2-inch-deep by 3/4-inch-wide opening in top of box aligned with raceway.
 - e. Autodialer: Provide autodialer to match existing LAX defibrillator cabinets. One Cat-6a cable shall be terminated to plug directly into the unit. Configure to ring down to 1-310-342- 7999.
 - 1) Manufacturer: Subject to compliance with requirements, provide Talk-A-Phone ETP-100MBV AUX LAX. No comparable products will be accepted.
 - 2) Autodialer to be activated upon opening of cabinet door, deactivated by manual key
2. Cable Access Box: 2-inch high by 2-inch wide by 2-inch deep, stainless-steel box with removable cover held in place with 1/4-inch-diameter screws and provided with 2-inch-deep by 3/4-inch-wide opening in bottom of box aligned with raceway.
 3. Raceway: 2-inch-deep by 3/4-inch-wide, stainless-steel cable raceway for two CAT 6 cables routed from emergency phone box to top of cabinet.
- I. Alarm:
1. Circuitry Board: Modular construction to facilitate field replacement without replacement of cabinet; housed in top of cabinet to match existing.
 2. Alarm Circuitry: Activated upon opening cabinet door, deactivated and/or reset by manual key switch accessible without opening cabinet. No remote monitoring of the tamper switch is required.
 3. Alarm Key Switch and Key: Locate in front exterior of cabinet to match existing. Provide one alarm key for each cabinet.
 4. Control for Visual Alarm, Audio Alarm and Relay Closures:
 - a. Visual Alarm:
 - 1) Locate six red LED's on top exterior of cabinet to match existing.
 - 2) Upon activation, LED's to flash at a rate of 2 times per second continuously for 30 seconds; after initial 30 seconds, LED's to flash at 10-second interval until alarm in deactivated and/or reset.
 - 3) LED's to be visible from 20 feet away, minimum.
 - b. Audio Alarm:
 - 1) Locate one speaker on top interior of cabinet to match existing.
 - 2) Speaker rated to transmit a siren sound of 108dB at 3 feet away.
 - 3) Upon activation, siren to sound for 20 seconds; after initial 20 seconds siren to chirp at 10-second intervals until alarm is deactivated and/or reset.
 - 4) The audio alarm function of the AED cabinet shall be automatically disabled so that the sound from the alarm will not interfere with the Airport Police's communication with the person using the AED cabinet.



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- c. Relay Closures:
 - 1) Provide 2 relay closures with one closure normally open (NO) and the other normally closed (NC) with a common ground.
 - 2) Contact rating:
 - a) Maximum Switching Power: 60W (DC) or 60VA (AC) resistive load.
 - b) Maximum Current: 0.6A @ 110VAC or 2.5A @ 12VDC resistive load.
 - 3) Upon alarm activation relays to switch states (NO to NC and NC to NO) until deactivated and/or reset by manual key switch.
 - 4) Extend relay closure contacts to phone box using six strands of color coded jumper wires; 2 feet in length, 24 AWG copper wire.

- J. Finishes:
 - 1. Manufacturer's standard baked-enamel paint for the interior of cabinet.
 - 2. Stainless Steel: No. 4.

- K. Power Requirements for Alarm Board, Siren and LED: Power alarm board, siren and LED's from building line-voltage 110AC power on UPS circuit through the use of a 12VDC voltage converter located within the AED cabinet.

2.3 AUTOMATED EXTERNAL DEFIBRILLATOR

- A. Provide the following:
 - 1. Philips Heartstart OnSite (HS1) Defibrillator, P/N:M5066A
 - 2. Standard Carrying Case, P/N: OPT CO1
 - 3. Extra Battery, P/N: 5070A
 - 4. Fast Response Kit, P/N: 68-CHAT

2.4 FABRICATION

- A. AED Cabinets: Provide manufacturer's standard box (tub) with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated.
 - 1. Weld joints and grind smooth.
 - 2. Provide factory-drilled mounting holes.

- B. Cabinet Doors: Fabricate doors according to manufacturer's standards, from materials indicated and coordinated with cabinet types and trim styles selected.

- C. Cabinet Trim: Fabricate cabinet trim in one piece with corners mitered, welded, and ground smooth.



2.5 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces of AED cabinets from damage by applying a strippable, temporary protective covering before shipping.
- C. Finish AED cabinets after assembly.
- D. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.6 STAINLESS-STEEL FINISHES

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1. Run grain of directional finishes with long dimension of each piece.
 - 2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
 - 3. Directional Satin Finish: No. 4.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls and partitions for suitable framing depth and blocking where recessed cabinets will be installed.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare recesses for recessed AED cabinets as required by type and size of cabinet and trim style.

3.3 INSTALLATION

- A. General: Install AED cabinets in locations and at mounting heights, at heights acceptable to the Los Angeles Fire Department.
- B. AED Cabinets: Fasten cabinets to structure, square and plumb.



3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- C. Perform the following tests and inspections:
 - 1. Operational Test: After telephone connection has been energized, test each unit in accordance with Contractor Telephone Test Plan and LAWA to confirm proper unit operation.
 - 2. Test and adjust telephone and alarm systems. Replace damaged and malfunctioning telephone and alarm equipment.

3.5 ADJUSTING AND CLEANING

- A. Remove temporary protective coverings and strippable films, if any, as cabinets are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. Adjust cabinet doors to operate easily without binding.
- C. On completion of cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.
- D. Touch up marred finishes, or replace cabinets that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by AED cabinet and mounting bracket manufacturers.
- E. Replace AED cabinets that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 10 44 13



SECTION 10 44 13 - FIRE EXTINGUISHER CABINETS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Fire protection cabinets for the following:
 - a. Portable fire extinguishers.

NOTE: Indicate on the drawings a fire extinguisher in a cabinet within a 75 foot travel distance to all portions of the building on each floor. Keep in mind that additional fire extinguishers and cabinets may be required as dictated by the Fire Department Field Inspector.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for fire protection cabinets.
 - 1. Fire Protection Cabinets: Include roughing-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type, trim style, and panel style.
- B. Shop Drawings: For fire protection cabinets. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples for Initial Selection: For each type of fire protection cabinet indicated.
- D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below:
 - 1. Size: 6 by 6 inches square.
- E. Product Schedule: For fire protection cabinets. Coordinate final fire protection cabinet schedule with fire extinguisher schedule to ensure proper fit and function.

1.3 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For fire protection cabinets to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Fire-Rated, Fire Protection Cabinets: Listed and labeled to comply with requirements in ASTM E814 for fire-resistance rating of walls where they are installed.



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- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Pre-installation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to fire protection cabinets including, but not limited to, the following:
 - a. Schedules and coordination requirements.

1.5 COORDINATION

- A. Coordinate sizes and locations of fire protection cabinets with wall depths.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A1008 /A1008M, Commercial Steel (CS), Type B.
- B. Stainless-Steel Sheet: ASTM A666, Type 304.
- C. Transparent Acrylic Sheet: ASTM D4802, Category A-1 (cell-cast sheet), 1/4 inch-thick, mm thick, with Finish 1 (smooth or polished).

2.2 FIRE PROTECTION CABINET

- A. Cabinet Type: Suitable for fire extinguisher.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. J. L. Industries, Inc., a division of Activar Construction Products Group
 - b. Larsen's Manufacturing Company
 - c. Potter Roemer LLC
- B. Cabinet Construction: Nonrated.
- C. Cabinet Material: Stainless-steel sheet.
 - 1. Shelf: Same metal and finish as cabinet.
- D. Recessed Cabinet: Cabinet box recessed in walls of sufficient depth to suit style of trim.
- E. Cabinet Trim Material: Stainless-steel sheet.
- F. Door Material: Stainless-steel sheet.
- G. Door Style: Vertical duo panel with frame.
- H. Door Glazing: Acrylic sheet.



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1. Acrylic Sheet Color: Clear transparent acrylic sheet.
- I. Door Hardware: Manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated.
 1. Provide manufacturer's standard.
 2. Provide continuous hinge, of same material and finish as trim, permitting door to open 180 degrees.
- J. Accessories:
 1. Mounting Bracket: Manufacturer's standard steel, designed to secure fire extinguisher to fire protection cabinet, of sizes required for types and capacities of fire extinguishers indicated, with plated or baked-enamel finish.
 2. Identification: Comply with the Los Angeles Fire Department Requirements.
 - a. Identify fire extinguisher in fire protection cabinet with the words "FIRE EXTINGUISHER."
 - (1) Location: Applied to cabinet door.
 - (2) Application Process: Engraved.
 - (3) Lettering Color: Black.
 - (4) Orientation: Vertical.
- K. Finishes:
 1. Manufacturer's standard baked-enamel paint for the interior of cabinet.
 2. Stainless Steel: No. 4.

2.3 FABRICATION

- A. Fire Protection Cabinets: Provide manufacturer's standard box (tub) with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated.
 1. Weld joints and grind smooth.
 2. Provide factory-drilled mounting holes.
 3. Prepare doors and frames to receive locks.
 4. Install door locks at factory.
- B. Cabinet Doors: Fabricate doors according to manufacturer's standards, from materials indicated and coordinated with cabinet types and trim styles selected.
- C. Cabinet Trim: Fabricate cabinet trim in one piece with corners mitered, welded, and ground smooth.

2.4 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces of fire protection cabinets from damage by applying a strippable, temporary protective covering before shipping.



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- C. Finish fire protection cabinets after assembly.
- D. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.5 STAINLESS-STEEL FINISHES

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1. Directional Satin Finish: No. 4.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls and partitions for suitable framing depth and blocking where recessed cabinets will be installed.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare recesses for recessed fire protection cabinets as required by type and size of cabinet and trim style.

3.3 INSTALLATION

- A. General: Install fire protection cabinets in locations and at mounting heights, at heights acceptable to the Los Angeles Fire Department.
- B. Fire Protection Cabinets: Fasten cabinets to structure, square and plumb.

3.4 ADJUSTING AND CLEANING

- A. Remove temporary protective coverings and strippable films, if any, as fire protection cabinets are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. Adjust fire protection cabinet doors to operate easily without binding. Verify that integral locking devices operate properly.
- C. On completion of fire protection cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.



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- D. Touch up marred finishes, or replace fire protection cabinets that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by fire protection cabinet and mounting bracket manufacturers.
- E. Replace fire protection cabinets that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 10 44 13



SECTION 10 44 16 - FIRE EXTINGUISHERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes portable, hand-carried fire extinguishers and mounting brackets for fire extinguishers.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include rating and classification, material descriptions, dimensions of individual components and profiles, and finishes for fire extinguisher and mounting brackets.
- B. Product Schedule: For fire extinguishers. Coordinate final fire extinguisher schedule with fire protection cabinet schedule to ensure proper fit and function.

1.3 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire extinguishers to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."
- B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to the Los Angeles Fire Department.

1.6 COORDINATION

- A. Coordinate type and capacity of fire extinguishers with fire protection cabinets to ensure fit and function.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fails in materials or workmanship within specified warranty period.



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1. Failures include, but are not limited to, the following:
 - a. Failure of hydrostatic test according to NFPA 10.
 - b. Faulty operation of valves or release levers.
2. Warranty Period: Six years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS

- A. Fire Extinguishers: Type, size, and capacity for each fire protection cabinet and mounting bracket indicated.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. J. L. Industries, Inc.; a division of Activar Construction Products Group.
 - b. Larsen's Manufacturing Company/Potter Roemer LLC.
 - c. Amerex Corporation.
 2. Valves: Manufacturer's standard.
 3. Handles and Levers: Manufacturer's standard.
 4. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B and bar coding for documenting fire extinguisher location, inspections, maintenance, and recharging.
- B. Multipurpose Dry-Chemical Type in Steel Container: UL-rated 2-A:10-B:C, 5-lb nominal capacity, with monoammonium phosphate-based dry chemical in enameled-steel container.

2.2 MOUNTING BRACKETS

- A. Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or black baked-enamel finish.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. J. L. Industries, Inc.; a division of Activar Construction Products Group.
 - b. Larsen's Manufacturing Company/Potter Roemer LLC.
 - c. Amerex Corporation.
- B. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.
 1. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface.
 - a. Orientation: Vertical.



PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine fire extinguishers for proper charging and tagging.
 - 1. Remove and replace damaged, defective, or undercharged fire extinguishers.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install fire extinguishers and mounting brackets in locations indicated and in compliance with requirements of authorities having jurisdiction.
- B. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.

END OF SECTION 10 44 16