SECTION 105505 – HIGH SECURITY KEY BOX

ALL LIBRARIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes high security key box assemblies, complete with door, frame, and associated door hardware.

B. Related Sections:

1. Section 042000 "Unit Masonry" for building anchors into masonry construction for fire-rated vault door frames.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, finishes, and operating characteristics for high security key box.

B. Shop Drawings: For high security key box assemblies. Include plans, elevations, sections, details, and attachments to other work. Show operational clearances and coordination of adjustable frame with designed wall thicknesses.

C. Setting Drawings: For anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors that are to be embedded in concrete or masonry.

D. Samples for Verification: For each type of exposed finish required, in manufacturer's standard sizes.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified Installer.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For high security key box assemblies to include in emergency, operation, and maintenance manuals. In addition to items specified in Section 017823 "Operation and Maintenance Data," include keying and combination information.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

B. Source Limitations: Obtain high security key box assemblies from single source from single manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver high security key box assemblies wrapped in manufacturer’s unopened package to provide protection during transit and Project-site storage.

1.8 COORDINATION

A. Coordinate installation of anchorages for high security key box assemblies. Furnish 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 MANUFACTURERS

A. 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:

B. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings, Knox-Box 3200 Series Hinged Door Model by Knox Company, or comparable product by one of the following:

1. Knox Company.

2.2 MATERIALS

A. Steel Plate, Shapes, and Bars: ASTM A 36/A 36M.

B. Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B.

C. Stainless-Steel Sheet: ASTM A 666, Type 304.

2.3 HIGH SECURITY KEY BOX ASSEMBLY

A. Door: Fabricated from all-welded, insulated steel sheet construction; overall thickness not less than 1/2 inches (89 mm) thick, with interior gasket seal; with jambs and head shaped to interlock with frame.

1. Hinged door allows for single-handed operation.
2. Resists moist conditions with a weather resistant door gasket.

B. Housing: Fabricated from all-weld, steel plate construction; overall thickness not less than ¼ inch.

1. Exterior Dimensions: 7 inches high by 7 inches wide.
2. Depth: 3 inches.
3. Weight: 9 lbs.
4. Capacity: Holds up to 10 keys and access cards in interior compartment.
5. Finish: Knox-Coat proprietary finishing process.
6. Color: Aluminum.

C. Cladding: Manufacturer's standard stainless-steel sheet for hinge cover.

2.4 HARDWARE AND ACCESSORIES

A. General: Provide hardware components as required.

B. Hinges: Stainless steel door hinge.

C. Box and lock UL listed.

D. Lock: 1/8-inch stainless steel dust cover with tamper seal mounting capability.

1. Provide drill-resistant metal plate for protection of lock case and locking mechanism.

2.5 FABRICATION

A. Fabricate high security key box assemblies rigid, neat in appearance, and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Weld exposed joints continuously; grind, fill, dress, and make smooth, flush, and invisible. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.

B. Factory prepare high security key box assemblies and frames to receive hardware and accessories, including cutouts, reinforcements, mortising, drilling, and tapping.

2.6 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 from damage by applying a strippable, temporary protective covering before shipping.

C. 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.

2.7 PAINT FINISHES

A. Finish: Manufacturer's standard, Knox-Coat proprietary finishing process that protects product up to four times better than a standard powder coat.

1. Color and Gloss: Aluminum.

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 the Work.

B. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

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

3.2 INSTALLATION

A. Install high security key box assemblies complete with doors, frames, and accessories and according to requirements of fire-rated vault door assemblies' UL listing.

B. Set high security key box assemblies accurately in position; plumbed, aligned, in accordance with manufacturer’s instruction.

3.3 ADJUSTING AND CLEANING

A. Adjust vault door hardware and operating mechanism to function smoothly, and lubricate as recommended by manufacturer.

B. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including dented and bent units.

C. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint; paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

END OF SECTION 083459