PART 1 - GENERAL

1.1 DESCRIPTION
This section covers Medication Cabinet consisting of a stainless steel cabinet equipped with a self-contained refrigerator, sink and fixtures and other facilities for the storage of medicines and drugs.

1.2 RELATED WORK
A. For electrical connections and available voltages see electrical sections of the specifications and the drawings.
B. For plumbing connections see the plumbing sections of the specifications and the drawings.

1.3 MANUFACTURER’S QUALIFICATIONS
Medication cabinet shall be product of manufacturers regularly engaged in manufacturing cabinets of type specified.

1.4 ELECTRICAL STANDARDS
A. Cabinet shall have been tested for conformance with NFPA Pamphlet No. 70.
B. Body of cabinet shall have an Underwriters Laboratories, Inc., label as evidence that the NFPA requirements have been met.

1.5 SUBMITTALS
A. In accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES, furnish the following:
B. Shop Drawings: Medication cabinet, showing design, materials, construction and installation.
C. Manufacturers’ Certificates: Certificate signed by manufacturer that servicing of component parts can be made from the front of the cabinet.

1.6 EQUIPMENT MANUAL
The supplier shall furnish with each cabinet two copies of the manufacturers' equipment manual containing installation, operation and maintenance instructions, parts list showing part number and source of supply and electrical data and connection diagrams for all utilities.

1.7 APPLICABLE PUBLICATIONS
A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
B. Federal Specifications (Fed. Spec.):
   AA-R-211H..............Refrigerators, Mechanical, Household (Electrical Self-contained)
C. American Society for Testing and Materials (ASTM):
   A167-99 (R2009)........Stainless and Heat-resisting Chromium-Nickel Steel Plate, Sheet and Strip
   D4802-10...............Acrylic Plastic Sheet
D. American Society of Mechanical Engineers (ASME):
   A112.18.1-05...........Plumbing Fixture Fittings
E. National Fire Protection Association (NFPA):
   70-11..................National Electrical Code

PART 2 - PRODUCTS

2.1 MATERIALS
   A. Stainless Steel: ASTM A167
   C. Plumbing Fixtures: ASME A112 Series, except die-cast zinc alloy is not acceptable.

2.2 FABRICATION
   A. The medication cabinet shall be of the following sizes as specified:
      Size 1, width: 900 mm (36 inch)
      Size 2, width: 1200 mm (48 inch)
      Size 3, width: 1500 mm (60 inch)
      Size 4, width: 1800 mm (72 inch)
      1. Depth: Not more than 750 mm (25 inches).
      2. Height: Not more than 2400 (80 inches) excluding sloping top.
   B. General Requirements: The cabinet shall be //open// recessed // mounted and provided with refrigerator, countertop with sink, shelves, narcotics locker, doors, drawers, storage compartment, waste compartment and accessories as shown.
   C. Cabinet Fabrication:
      1. The cabinet shall be either single unit or sectional fabrication, constructed of steel angles or formed sheet metal panels and structural members welded into a unitized assembly.
      2. Enclose open mounted cabinets on the sides with stainless steel panels 1 mm (0.0359 inch) thick. Enclose backs and concealed sides with either stainless steel or aluminized steel, 1 mm (0.0359 inch) thick.
      3. Recess the base of the cabinet on the front to provide not less than a 75 mm (3 inch) toe space.
      4. Provide sloping top fabricated from 1 mm (0.0359 inch) thick stainless steel.
D. Refrigerator: Provide size 1 cabinet with a 0.07 cu m (2.5 cfm) refrigerator and sized 2, 3 and 4 cabinets with a 1.0 cu m (3.5 cfm) refrigerator self-defrosting type meeting the fabrication and performance requirements of Fed. Spec. AA-R-211, except that it shall not be equipped with an ice-making compartment.

1. Provide the refrigerator with either an adjustable shelf or not less than two perforated stainless steel pans and provide either stainless steel or 19 mm (3/4 inch) clear plastic hinged or sliding doors equipped with magnetic catches.

2. Provide refrigerator with air cooled condensing unit.

3. Provide refrigerator with a temperature control switch to control the temperature within the range of 2°C to 8°C (36°F to 46°F). Equip refrigerator with a thermometer that is accurate within 5% of the actual temperature.

E. Countertop: Provide cabinet with a full width countertop having an inverted "V" curbing at the front edge and integral back splash fabricated from 1.2 mm (0.0478 inch) thick stainless steel.

F. Sink: Form sink integral with countertop to the following dimensions:
   Width: ............... Not less than 200 mm (8 inches), not more than 250 mm (10 inches).
   Length: ............... Not less than 225 mm (9 inches), not more than 325 mm (13 inches).
   Depth: ............... Not less than 150 mm (6 inches), not more than 200 mm (8 inches).

G. Plumbing Fittings and Trim:

1. Faucets, ASME A112.18.1, compression type, countertop mounted, chromium plated brass, having two valves and with // swing-spout // and // gooseneck spout // as shown, elevated to clear handles. Fittings shall have an elongated escutcheon for spout and handles, replaceable valve seats and four arm or lever style indexed chromium plated handles; handles either with or without hood.

2. Faucets, ASME A112.18.1, compression type, splashback mounted, chromium plated brass, having two valves and with // swing-spout // and // gooseneck spout // as shown. Fittings shall have indexed chromium plated fore arm or lever handles and replaceable valve seats; handles either with or without hood.

3. Drain, ASME A112.18.1, either cast or wrought brass or stainless steel, with flat strainer, except for Cabinet Type 1B provided with a cup strainer. Surfaces of brass drains exposed from above shall have a chromium plated finish.

4. Trap, ASME A112.18.1, cast brass.
H. Shelves: In the upper section of the cabinet, provide at least two removable adjustable shelves, one adjustable and one tiered shelf, as shown, fabricated from not less than 1.2 mm (0.0478 inch) thick stainless steel and having a front to back dimension of 175 mm to 250 mm (7 to 10 inches).

I. Narcotics Locker: Provide a narcotics locker with an adjustable or tiered shelf in the upper section of the cabinet, fabricated from not less than 1.2 mm (0.0478 inch) thick stainless steel.

1. Illuminate interior of the locker. Provide at least one warning light on front of the cabinet that shall remain lit until the locker is secured.

2. Furnish locker doors with tamperproof wardrobe type locks. One door locker shall be equipped with two locks that are individually keyed. Only one key to the single door unit shall fit other locking cabinet facilities. Provide two door lockers with one lock on each door. The locks shall be individually keyed and only the outer door key shall fit other locking cabinet facilities.

J. Doors: Provide upper section of the cabinet with either hinged or sliding double doors or roll-up type doors, equipped with wardrobe or cylindrical type locks. Key locks as specified for locker doors.

1. Fabricate frames for hinged doors, when furnished, from stainless steel and use 6 mm (1/4 inch) thick laminated glass for glazing.

2. Fabricate sliding doors, when furnished, from 9 mm (3/8 inch) clear plastic and shall ride in stainless steel track or channel. Fabricate and install track in a manner that will prevent removal of the doors when they are in a locked position.

3. Where roll-up type doors are required, they shall be of integral construction with cabinet, fabricated of aluminum and shall coil up into a head box at the top of the cabinet. Add-on, surface mounted roll-up doors are not acceptable.

K. Storage Compartment: Provide at least one storage compartment in the lower section of the cabinet. Compartment shall have one adjustable, removable, stainless steel shelf and either hinged or sliding stainless steel doors.

L. Waste Compartment: Provide a concealed stainless steel, aluminum or rigid plastic waste receptacle in the lower section of the cabinet. Refuse disposal shall be through an access opening on either the front of the cabinet or at the countertop level.

M. Provide cabinet with the following accessories:

1. Paper cup dispenser, designed to hold 200 g (7 ounce) cups
2. Paper towel dispenser
PART 3 - EXECUTION

3.1 FASTENINGS AND ANCHORAGE

A. Fastenings and anchorage for securing medication cabinet, except as otherwise specified, to adjoining construction shall be by toggle or expansion bolts, approximately 6 mm (1/4 inch) in diameter or other appropriate size and type of fastenings as required for each specific type of installation. Space fastenings approximately 600 mm (24 inches) on center.

B. Where type, size or spacing of fastening is not shown or specified, submit shop drawings for approval showing proposed fastenings and method of installation.

C. The cabinets shall not be anchored to wood ground strips.

D. Fastenings and anchorage for cabinets to metal stud partitions shall be as detailed on the drawings.

3.2 CLOSURES

A. Close openings larger than 6 mm (1/4 inch) wide between cabinets and adjacent walls, and where shown, with either 18 gage flat steel closure strips, scribed to required contours or 20 gage machined formed fillers with returns and secured with sheet metal screws to tubular or channel members of units or with bolts where exposed on inside.

B. Where ceilings interfere with installation of sloping tops, omit sloping tops and provide flat steel filler plates. Filler plates more than 150 mm (six inches) in width shall in addition, be secured to top edge and fastened by screws to a continuous 25 mm by 25 mm (one inch by one inch), 14 gage steel angle secured to ceiling with toggle bolts.

C. Paint closure strips and fillers (except stainless steel fillers) same color as adjoining walls.

3.3 INSPECTION

A. Upon completion of the installation, the manufacturer shall examine the anchorage, check the operation of the equipment and the hardware, and examine the finish for damage.

B. Manufacturer shall report in writing that the installation is satisfactory and shall include information concerning minor adjustments and minor repairs which may be required for final acceptance by the Resident Engineer.