PART 1 - GENERAL

1.1 WORK INCLUDED

.1 Provide a complete system of splitters boxes and cabinets for the installation of wiring and equipment.

1.2 REFERENCES

.1 Canadian Standards Association (CSA International)

.1 CSA C22.1-12, Canadian Electrical Code Part 1 (22nd Edition), Safety Standard for Electrical Installations.

1.3 RELATED SECTIONS

.1 Section 26 05 00 - Common Work Results - For Electrical.

1.4 SHOP DRAWINGS AND PRODUCT DATA

.1 Submit shop drawings and product data for cabinets in accordance with Section 01 33 00.

1.5 WASTE MANAGEMENT AND DISPOSAL

.1 Separate and recycle waste materials in accordance with Section 01 74 20.

PART 2 - PRODUCTS

2.1 SPLITTERS

.1 Sheet metal enclosure, welded corners and formed hinged cover suitable for locking in closed position.

.2 Main and branch lugs to match required size and number of incoming and outgoing conductors as indicated.

.3 At least three spare terminals on each set of lugs in splitters less than 400 A.

2.2 JUNCTION AND PULL BOXES

.1 Materials:

.1 Code gauge sheet steel, welded construction, phosphatised and/or galvanized.

.2 Components:

.1 For flush mounting, covers to overlap box by 25 mm minimum all around with flush head cover retaining screws.

.2 Electro-galvanized sheet steel type boxes for flush mount in walls with matching extension and plaster rings as required.

.3 Use rolled edges for surface boxes.

.4 Size shall be in accordance with CSA C22.1 for the given conduit sizes and arrangement and number of conductors and splices in the boxes.

.5 Surface or flush with trim and hinged door, latch and lock and two keys and keyed to match panelboard keys.

.6 Backboards: 19 mm GIS Fir plywood backboard.

.7 Bright green covers for security electronics boxes in non-inmate areas.

.3 Junction boxes mounted in exterior walls shall be complete with box vapour barriers.

2.3 CABINETS

.1 Materials:

.1 Cabinets: Code gauge sheet steel, welded construction, phosphatised and factory paint finish, suitable for field painting.

.2 Locks: to match panelboards.

.3 Backboards: 19 mm G1S fir plywood, one piece per cabinet, covering entire cabinet interior.

.2 Components:

.1 With hinged door and return flange overlapping sides, with handle, lock and catch for surface mounting, size as indicated or to suit.

.2 Surface or flush with trim and hinged door, latch and lock and two keys, size as indicated or to CSA C22.1 for the given conduit sizes and arrangement and number of conductors and splices in the boxes. Keyed to match panelboard keys.

PART 3 - EXECUTION

3.1 INSTALLATION

.1 Junction Boxes and Pull Boxes:

.1 Install in inconspicuous but accessible locations, above removable ceilings or in electrical rooms, utility rooms or storage areas.

.2 Only main junction and pull boxes are indicated. Install additional pull boxes so as not to exceed 30m of conduit run or three 90° bends between pull boxes and as required by CSA C22.1.

.3 Identify with system name and circuit designation as applicable.

.4 Size in accordance with CSA C22.1, as a minimum.

.2 Cabinets:

.1 Mount cabinets with top not greater than 1980 mm above finished floor, coordinated with masonry, panelboards, fire hose cabinets and similar items. Securely fasten backboards to cabinet interiors.

.2 Install terminal blocks.

.3 Identification:

.1 Provide equipment identification as per Section 26 05 00.

END