

DIVISION NO. 90

GENERAL TOILET PARTITIONS

Sec. 90-1 GENERAL:

The General Conditions, Division C, written for this project, shall form a part of this Division and shall apply fully to all work hereunder.

Sec. 90-2 SCOPE:

- (a) The work included under this division shall be the furnishing, fabricating, and installing of all toilet partitions (or compartments). They shall be made of metal, and shall be complete in every respect.
- (b) The Contractor shall submit the make of partition he proposes to purchase to the Architect for approval and acceptance. The submission shall include the partition manufacturer's specifications and necessary shop drawings, as well as any other data deemed pertinent thereto.

Sec. 90-3 TOILET COMPARTMENTS:

- (a) Toilet partitions (or compartments) shall be similar to "Sanymetal Academy Flush Type, Overhead Braced", with flush type doors, pilasters, and partitions, all having sound deadening cores, and shall conform to the published Sanymetal Specifications. Compartments shall be made of a banded, galvanized steel, with a baked-on enamel finish. Colors shall be selected by the Architect.
- (b) Compartments shall be provided with complete hardware, including coat hook and door bumper. Each compartment shall be provided with a paper holder of the type selected by the Architect (unless one is specifically called for on the drawings).

Sec. 90-4 INSTALLATION:

The installation of all toilet partitions shall be in accordance with the manufacturer's recommendations and shall rest with the Architect's approval.

DIVISION NO. 95CERAMIC TILESec. 95-1 GENERAL:

The General Conditions, written for this project, shall form a part of this Division, and shall apply fully to all work hereunder.

Sec. 95-2 SCOPE:

Furnish and install all ceramic tile work called for on the drawings. Tile work includes the following:

- (a) Ceramic tile wainscot in Toilet Room on First Floor of Dillon Street Wing, same to be four (4) feet high; also a ceramic tile floor.
- (b) Ceramic tile floors in the two Basement Toilet Rooms.

Sec. 95-3 MATERIALS:

The materials for this work shall be, in general, as follows:

- (a) Wall Tile - shall be glazed tile of an approved manufacture, equal to American-Olean, Forany, Sparta, and the like, color and surface texture to be selected by the Architect. Tile shall be 4-1/4" x 4-1/4" in size; and all special shapes, such as bull nose cap, cove base, etc., required for a complete and finished job, shall be furnished.
- (b) Ceramic Floor Tile - shall be an impervious unglazed ceramic stock floor tile of the highest grade, made by a reputable manufacturer, such as Cambridge, Mosaic, and the like. Floors to be laid in a pattern and of colors to be selected by the Architect.
- (c) Thresholds - shall be white marble, ^{or black slate,} smooth finish, of 1" minimum thickness. Width to be same as thickness of

Sec. 95-3 MATERIALS (Cont'd):

adjacent partitions. Lengths to be width of door openings, all as called for on the drawings.

- (e) Submit samples of all tile to Architect for approval.

Sec. 95-4 WORKMANSHIP:

All workmanship in connection with this work shall be of the highest class, and all work shall finish equal to the best of its respective kinds to the satisfaction of the Architect.

Sec. 95-5 INSTALLATION:

- (a) All cutting and fitting required or necessary to fit the material to the various positions and conditions shall be done hereunder in a most workmanlike manner.
- (b) Ceramic Tile Walls and Wainscots: Furnish and install ceramic tile walls and wainscot where indicated and as detailed on the drawings. Top of wainscot to be tile capped. A 1/2" face feature strip shall be installed all around near the top of wainscot, if so directed by the Architect. Tar paper is to be loosely factened to face of studs before applying metal lath. Approved metal lath to be furnished and installed by this Contractor. Tiles to be properly beaten to secure a solid even bed and must be finished to a straight, plumb and even surface. None but perfect tiles are to be used; any defective ones to be removed and replaced. Grout tiles with approved white cement. Install tile cove at floor line.
- (c) Tile Floor: Ceramic tile floors shall be of colors and pattern to be selected by the Architect.

A 3/8" thick bed of mortar shall be used for setting the Ceramic Tile. All the above tile work is to be done in accordance with the best known methods of the tile industry. Thresholds of marble, or slate.

- (d) Marble Thresholds: Marble Thresholds shall be laid in a setting bed of sand and cement, 1 to 3 mix, over concrete slabs. Setting mixture shall be nearly dry, with sufficient moisture in it to make it hold together, and placed a little higher than finish floor level to allow

Sec. 95-5 INSTALLATION (Cont'd):

tamping down. Lay thresholds on setting bed, and imbed to proper height, then lift out threshold and coat the back with pure cement and water mixed to a consistency of thick paste. Reset threshold and tamp down with wooden block to proper level.

- (e) All tile work shall be installed by skilled mechanics under supervision of a competent foreman, and shall be done according to the basic specifications for tile work adopted by the Associated Tile Manufacturers, insofar as these are applicable to the work hereunder.
- (f) Any work or material necessary for the proper installation of this work as above, and not furnished or installed under other divisions, shall be furnished and installed hereunder.
- (g) All tile work shall be cleaned and turned over to the Owner in perfect condition.

DIVISION NO. 110MODERNFOLD DOORSSec. 110-1 GENERAL:

The General Conditions, Division G, written for this project, shall form a part of this Division and shall apply fully to all work hereunder.

Sec. 110-2 SCOPE:

- (a) Furnish and install Modernfold Doors where called for on the drawings. Doors shall be complete in every respect, including hardware. No locks are required on these doors.
- (b) Modernfold Doors shall be manufactured by New Castle Products, New Castle, Indiana, and shall be installed by one of their authorized representatives. The Owner, through the Architect, reserves the right to select doors of other manufacturers.

Sec. 110-3 MODERNFOLD DOORS:

- (a) These doors shall be top supported without floor guide and shall be completely fabricated at the factory, including track and all necessary hardware for installation. "Modernfold" doors shall consist of a rust-resistant steel frame of interlacing, collapsible and extensible hinge plates properly connected and supported vertically to provide smooth, positive operation so that all volutes extend and collapse equally and simultaneously. The frame shall be covered with durable, sunfast, flame-resistant, plastic-coated fabric, minimum weight per square yard of 18.4 ounces, which type shall not peel, craze or crack. All track shall be rust-resistant, and shall have silver gray baked-on enamel finish to provide good surface for painting, if desired. "Modernfold" doors shall be equipped with hardware and moldings, and shall be fully guaranteed for one year against defects of faulty material and workmanship.

Sec. 110-3 MODERNFOLD DOORS (Cont'd):

- (b) All mechanism for producing stability and pantograph action shall be contained within door frame and fabric covering to eliminate auxiliary shields or covers.
- (c) The folding door used as a closure for the upper opening in the partition between the Nave and the small room to the south of the Nave (in the Dillon Street wing) shall be a folding type door, Modernfold or equal, acceptable to the Architect. This door may have a bottom track, subject to the Architect's approval.
- (d) Colors of the fabric covering shall be selected by the Architect.

PAINTING AND DECORATING

Sec. 20-1 GENERAL:

The General Conditions, Division G, written for this project, shall form a part of this Division and shall apply fully to all work hereunder.

Sec. 20-2 SCOPE:

- (a) The work included under this section shall be the plain painting and/or staining of all wood, metal, iron work, etc., shown on the drawings, called for herein, or reasonably implied for the completion of the building.
- (b) All work shall be done in a most workmanlike manner by skilled workmen.
- (c) All paint shall be used in strict accordance with the manufacturer's recommendations.
- (d) Painting and finishing work under this division includes:
 - (1) All new exterior wood work, including doors, frames, trim, etc.
 - (2) All exterior iron work.
 - (3) All exposed exterior steel and iron work.
 - (4) All exterior sheet metal (except copper, aluminum, or other non-ferrous metal).
 - (5) New interior plaster walls and ceilings shall NOT be painted.
 - (6) Existing interior plaster walls and ceilings, wood trim, etc., damaged by construction work.
 - (7) All new interior wood work and trim (except furniture and Chancel furnishings installed by others).
 - (8) All exposed interior sheet metal work (except non-ferrous metal).
 - (9) All railings and ornamental iron work except where other finish is indicated on the drawings.

Sec. 20-2 SCOFF (Contd.):

- (10) All exposed interior concrete and masonry construction.
- (11) All exposed piping, both plumbing and heating, including convectors and the like, in finished rooms and spaces shall be painted under this division. Plumbing and heating pipes and equipment in unfinished spaces (Boiler Room, etc.) shall be painted under Division No. 30. PLUMBING, and Division HEATING, and is not included in this division.

Sec. 20-3 SCAFFOLDING: PROTECTION:

- (a) Refer to other Divisions and there ascertain to what extent scaffolding will be available. Any additional scaffolding, ladders, etc., required for the proper completion of this work shall be furnished hereunder. This Contractor shall assume all responsibility for the scaffold available.
- (b) Provide all necessary drop cloths and other coverings for the protection of the work and adjacent areas.

Sec. 20-4 MATERIALS:

- (a) All materials used in the painting shall be of the best quality and shall be delivered to the job in unbroken packages or cans bearing the name of the manufacturer and of the materials therein. All paints used shall be of standard makes: Pittsburgh, Sherwin-Williams, L. Sonneborn's Sons, Pratt and Lambert, Lowe Brothers, O'Brien, Truscon, Fatton, Berry, or equal approved by the Architect.
- (b) Linseed oil, turpentine, dryers, etc., used shall be of the best quality. No fish oil will be permitted.
- (c) All colors of paint and wood finish shall be selected by the Architect.

Sec. 20-5 PAINTING AND FINISHING:

No paint or finish shall be applied on damp or wet surfaces. Ample time shall be allowed for drying between coats of paint. The various coats of paint shall be slightly tinted to permit proper checking of the number of coats applied. On all lead and oil painting of woodwork, all cracks, nail holes, etc., shall be neatly puttied after the first coat, using white lead putty. Spot with shellac if and when required before painting.

Do all sanding required.

(a) Exterior wood work

- (1) All exterior wood work, except when natural wood finish ^{or stain}

Sec. 20-5 PAINTING AND FINISHING (Contd.):

is called for, shall be given a priming coat and two finish coats of exterior oil paint. (Color to be as directed.)

- (2) Exterior wood doors and trim, where natural ^{or stain} wood finish is called for, shall have

1 coat paste wood filler
1 coat oil stain
3 coats spar varnish.

- (b) Exterior Metal Sash - Railings - Ornamental Iron

1 coat rust inhibiting primer
2 coats exterior oil paint

- (c) Interior - Plastered Walls and Ceilings

New plastered walls and ceilings shall **NOT** be painted.

- (d) Interior Wood Work

All interior wood work, except where paint finish is called for, shall be given:

1 coat paste wood filler
1 coat oil stain (omit if desired color can be obtained with filler alone)
1 coat white shellac
2 coats trim varnish, satin or dull finish, as directed.

Interior Wood work noted on the drawings to have paint finish shall be given

1 coat oil paint primer
1 coat enamel undercoat paint
1 coat enamel, satin finish (or gloss, if directed)

- (f) Exposed interior concrete and masonry construction shall be given two coats of an approved cement water paint, to be applied strictly in accordance with the paint manufacturer's printed specifications, or two coats of "Satin Luminol (Nat. Chem. & Mfg. Co.,) as per manufacturer's recommendations.

Sec. 20-5 PAINTING AND FINISHING (Contd.):

- (h) Sheet Metal Work: All ferrous sheet metal work shall first have all rosin, soldering acid, oil and grease removed by using benzine. The underside of all new sheet metal work shall have at least one coat of paint applied before being installed. The first coat on all galvanized metal shall be of Galvanum or Tector (special galvanized metal paints). Second and third coats of paint shall be given all sheet metal work.
- (i) Mechanical: The Contractor is to paint all convector cabinet fronts, exposed radiators, pipes, grilles, etc., with three (3) coats of paint. Where exposed pipes are heat pipes, the paint used shall be heat resisting. See par. (11) of Sec. 20-2 (this specification).
- (j) Structural Steel and Miscellaneous Iron is to have a shop coat of paint applied before it is delivered to the job, which is included under their Divisions. The Painting Contractor shall clean and apply two (2) coats of paint to all steel and iron work which will remain exposed.

Sec. 20-6 APPLICATION:

- (a) No paint shall be applied on damp or wet surfaces. Ample time shall be allowed for drying between coats of paint.
- (b) Finger, pencil and grease or other marks shall be completely removed from the surfaces to be finished. All cracks and nail holes shall be carefully filled. All paint shall be thoroughly mixed and stirred, and shall be applied by brushing out well with proper brushes, keeping the paint well stirred at all times.
- (c) The top and bottom edges of all doors shall be finished.
- (d) Do all sanding of surfaces as required.

Sec. 20-7 FINAL:

The Contractor shall make good any damage done due to work under this contract, same to be subject to the approval of the Architect.

DIVISION NO. 25ELECTRIC WIRINGSec. 25-1 GENERAL:

The General Conditions, Division G, written for this project, shall form a part of this Division and shall apply fully to all work hereunder.

Sec. 25-2 SCOPE:

- (a) The work to be done under this Division shall include the furnishing and installing of a complete system of electric wiring for lighting and power of the character and type specified or shown on the drawings. The system shall be complete in every detail ready for operation, except for those items which are specifically excepted hereinafter. The main work will be performed as follows (but not limited to):
- (b) Furnishing and installing all service switches and service feeders of sizes noted.
- (c) Furnishing and installing all switches, panels, receptacles, etc., as indicated; also all conduits, tubing, etc.
- (d) All lighting outlets and wiring less fixtures and lamps, unless specifically included herein.
- (e) Installing fixtures and lamps furnished by others.

Sec. 25-3 WORK OR MATERIAL TO BE FURNISHED BY OTHERS:

- (a) Low voltage heating controls--furnished and installed by Heating Contractor. Refer to Division - **HEATING**.
- (b) All motors, starters, and connection of same.
- (c) Lighting fixtures and lamps--furnished by Owner, installed by Electrical Contractor.
- (d) Hearing aid, and loud speaker equipment, furnished and installed by Owner.

Sec. 25-4 PERMITS - FEES:

The Electrical Contractor shall secure and pay for all necessary permits pertaining to the electrical installation; also all fees for inspections by Fire Underwriters, etc.

Sec. 25-5 MATERIALS AND WORKMANSHIP - APPROVAL:

- (a) All of the materials used shall be of the best grade approved by the Fire Underwriters and the Local Authority, and the work is to be of the best character executed by skilled mechanics and completed to the satisfaction of the Architect.

Sec. 25-5 MATERIALS AND WORKMANSHIP - APPROVAL (Contd.):

- (b) The entire installation shall comply fully with the latest rules and regulations of the Local Authority, the National Electric Code, the local Electric Power Company, and the Board of Fire Underwriters.
- (c) Before final payment will be made this Contractor shall submit to the Owners, through the Architect, a certificate of inspection and satisfactory installation from the various authorities having jurisdiction and especially from the Board of Fire Underwriters having jurisdiction.

Sec. 25-6 COOPERATION WITH OTHER TRADES - CLEANING UP - REPAIRS:

- (a) The Electrical Contractor shall cooperate with the work of all trades so that all the work be coordinated to insure proper installations. He shall obtain the necessary data from the various contractors which may affect his work, and shall handle his work and materials so as not to interfere with or delay any other work on the premises. He shall keep the rubbish caused by his work cleaned away.
- (b) The Electrical Contractor shall do all cutting necessary to the proper installation of his work, and shall repair any damage done by him or his workmen, employing the services of the Contractor whose work is damaged, when so directed by the Architect, or the General Contractor.

Sec. 25-7 DRAWINGS:

The Electrical Drawings shall accompany and be complementary to these specifications. Any item covered by either shall be considered the same as if covered by both. Any apparent discrepancy shall be referred to the Architect for interpretation before proceeding with the work. The Electrical Contractor shall refer to all the Job Drawings (Architectural, Structural, Mechanical, etc.), so as to be familiar with the relationship of his work to that of other parts of the project, the construction, and the building dimensions.

Sec. 25-8 OUTLET LOCATIONS:

The locations given on the drawings are approximate only, and the Electrical Contractor shall obtain from the Architect the definite locations for all outlets before installing them. Unless otherwise noted on the drawings, convenience outlets shall be double outlets mounted approximately 12" above the floor, (or 6" above top of heating unit enclosures).

Sec. 25-9 DETAIL: LAYOUT APPROVAL:

The Electrical Contractor shall submit to the Architect any details of layout of panels or the like for the Architect's approval which the Architect deems necessary.

Sec. 25-10 NEW ELECTRIC SERVICE AND METER:

The Electrical Contractor shall arrange with the local Electric Power Company for the location of services and meters, subject to the approval of the Architect. New service and meters shall be provided as called for on the Electrical Drawings, of adequate size to serve the entire installation, and complete in every respect, all in accordance with the Power Company's regulations. Any costs for services and meters shall be included in this Contract.

Sec. 25-11 INSTALLATION OF WIRING, ETC.:

- (a) On completion of the work, the installation shall be entirely free from grounds and short circuits, except for the required ground connections.
- (b) Wiring which is embedded in concrete, masonry and other similar construction shall be run in rigid conduit, with threaded fittings. Wiring which is concealed in the building construction (but not embedded in masonry, etc.) shall be run in thin wall tubing, or flexible metallic tubing (Greenfield). Wiring which is exposed shall be run in thin wall tubing. Flexible conduit shall be used for any motor connections.
- (c) All wiring shall be concealed wherever possible. Attention is called to the fact that certain wall faces showing on the interior of building shall be exposed masonry work without any other finish. The Contractor shall be careful to install his work in these places at such times as necessary as the work progresses to prevent cutting and patching.
- (d) As soon as conduits are placed they shall be plugged up or capped at the ends so that no debris enters them.
- (e) Conduits and tubing shall be secured not more than 8'-0" apart and shall, in no case, be fastened in any manner to other pipes. They shall be of such sizes as to permit pulling of wires without danger of injury to the insulation. No bends shall be made with an inside radius of less than 4".
- (f) Wires shall not be inserted until the rough plastering has been completed.
- (g) All wires used in this construction shall be new and in first-class condition. The wire or cable shall be designed to meet the following specifications and shall be plainly marked or tagged as follows:
 1. The maximum voltage at which it is designed to be used.
 2. The words "NATIONAL ELECTRIC CODE" and standard code rubber.
 3. Name of manufacturer and trade name of wire.
 4. Month and year of manufacture. (Wires manufactured more than one year before use will be rejected.)

Sec. 25-11 INSTALLATION OF WIRING, ETC. (Contd.):

5. Every package of insulated wire shall have attached the official stamp of the Underwriters' Laboratories certifying that it has been properly inspected and tested.
- (h) Wire in dry locations shall be type R and RH, as specified on drawings. Underground wiring or wiring in damp locations shall be type RL. No wire smaller than #12 shall be used for any purpose. All wires No. 8 and larger shall be stranded.
- (i) Splicing shall not be done except in junction and outlet boxes. Wire terminals in all outlet boxes shall be left properly poled and taped. Joints shall be properly made, soldered, or solderless type, as permitted in the Code.

Sec. 25-12 JUNCTION BOXES:

Junction boxes of adequate size for the wires entering same shall be installed where indicated and as required for the easy pulling of wires.

Sec. 25-13 OUTLET BOXES:

- (a) Each outlet shall be of a design, construction, and dimensions suited and adapted in every instance to its particular service, specific location, the kind of fixture to be used, the number and arrangement of conduits, etc., connected therewith. Covers for outlet boxes shall suit the respective usages. Necessary fixture studs and hanger supports shall be included.
- (b) Exterior outlet boxes shall be of the waterproof type of a manufacture to be approved, and shall be equipped with lipped cover.

Sec. 25-14 WALL RECEPTACLES - CONVENIENCE OUTLETS:

Wall receptacles shall be duplex type, made by Hubbell, General Electric, Mart and Legeman, Bryant, or an approved equal, as approved by the Architect. Provide bakelite, composition, or metal cover plates, as selected later by the Architect. Color of plates shall be in general harmony with the surrounding wall surfaces and areas.

Sec. 25-16 PANELS:

Circuit breaker panels shall be as called for on the drawings, and shall be installed where shown and called for on the drawings, of proper size, set in steel cabinets (#12 gauge minimum), and shall be of a standard make, approved by the Architect, such as Frank Adams, Square D, Trumbull, or Powerlite. See Electrical Drawings for specifications of panels. Panels shall have a metal door and trim, with latch on door. All circuits shall be neatly indexed (typewritten or hand lettered in ink).

Sec. 25-17 WIRING FOR TOWER CLOCK DIAL LIGHTS:

Furnish and install new wiring to serve the dials of the Tower Clocks. See Drawings.

Sec. 25-18 CONDUIT FOR HEARING AID AND PUBLIC ADDRESS SYSTEMS:
ORGAN; OUTSIDE TELEPHONE:

All conduits for the hearing aid and P.A. systems, the pipe organ, shall be installed under this division, at the locations shown on the drawings. The Owner shall furnish, at his own expense, all hearing aid, microphone, and loud speaker equipment, and wiring for same, at a later date. The work of the Electrical Contractor, therefore, includes only the conduits and junction boxes -- see Electrical Drawings. The Electrical Contractor shall leave a fish line in each conduit to make easier the future installation of the wiring. Plug or cap the ends of all such conduits.

Sec. 25-19 SIGNAL SYSTEM:

Furnish and install complete, ready for operation, a low voltage signal system from the Narthex to the Pastor's Sacristy and the Organ Console. Signals shall be of the "light" type, with button and signal light mounted in the same box, same to be mounted on the walls, unless otherwise directed by the Architect.

Sec. 25-20 ELECTRICAL WORK IN CONNECTION WITH VENTILATING EQUIPMENT:

- (a) Furnish and install the electric wiring, including disconnects, to serve the ventilating fans and equipment, all as called for in Division No. 157, VENTILATING (to which the Contractor shall refer, as well as to the drawings).

Sec. 25-21 LOCAL SWITCHES:

- (a) All local and room switches shall be specification grade tumbler T rated type (unless otherwise called for on the drawings), same to be H. & H., G. E., Hubbell, Arrow, or approved equal make.
- (b) Local switches shall not control loads greater than (a) 80% of rated capacity for incandescent lamp loads, or (b) 50% of rated capacity for fluorescent lamp loads or combinations of incandescent and fluorescent lamps.
- (c) Switches shall be set in gang boxes where grouped.
- (d) Cover plates shall be as specified in Sec. 25-14.
- (e) Unless otherwise directed, mounting heights of switches shall be 4'-6" above the finished floor.

Sec. 25-22 NEW ELECTRIC SERVICES:

- (a) The Contractor shall install a new single phase service as called for on the drawings, which will serve not only the New Church facilities, but also the existing Educational Building. Note that the Parsonage retains its own service. Attention is called to the following:
 - (1) The Contractor shall furnish, install, and maintain a temporary electric service to serve the Educational Building until such time as the permanent new service is completely installed and in operation, so that this building will not be out of service at any time for an appreciable period. This temporary service shall have a capacity of not less than 100A.
- (b) Attention is called to the service pole in the rear alley. Provision must be made to have this pole temporarily relocated, or secured, or protected in such manner as may be worked out with the Baltimore Gas and Electric Company. The Architect has already advised them of the conditions, so that they are considering this matter at the present time.
- (c) The Contractor shall furnish and install a conduit for a future three phase service. This conduit is to be left in place, capped at each end.

Sec. 25-23 ELECTRICAL WORK IN THE EXISTING EDUCATIONAL BUILDING:

As noted in the previous section, the Contractor shall do his work so as to keep the electrical facilities of this building in operation at all times. Any major interruptions shall be first discussed with the Architect and then scheduled to fit in with the Church schedule for usage of the building.

Sec. 25-24 TESTS:

This entire installation shall be tested from time to time as it is being installed, and any defects shall immediately be remedied, whether they be in workmanship, materials, and/or methods of construction. After the completion of the installation, it shall be tested under full load in the presence of the Architect, and shall prove satisfactory in all respects. All tests as to grounds, etc., shall meet the latest requirements of the National Electric Code.

Sec. 25-25 LIGHTNING PROTECTION:

The present tower is equipped with a lightning rod, carried down to a ground. The new tower shall also be equipped with lightning protection of an approved type. The existing cable, if in satisfactory condition, may be reused if it meets all requirements. Details of lightning protection to be submitted to Architect for approval before installation.