



GOVERNMENT OF BERMUDA

Ministry of Public Works
Lands Buildings and Surveys Division

**SLYVIA RICHARDSON CARE FACILITY BALCONY REPAIRS
SPECIFICATION**

Between the Owner: Works and Engineering
2 Aeolia Drive Devonshire DV05
Hamilton
Bermuda
441-292-8485

And the Contractor: TBD

For the Project: Sylvia Richardson Care Facility
4 Old Military Rd., St Georges,
Bermuda, GE03

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DIVISION 01. GENERAL REQUIREMENTS

01500 - Temporary Facilities and Controls

This work shall consist of the application of temporary measures throughout the life of the project.

01510 - Temporary Utilities

All connections and extensions required to provide temporary utilities shall be made by the Contractor at the Contractor's expense.

01511 - Temporary Electricity

Contractor is to provide and install temporary power for construction site. Connect to existing power service without disrupting local service requirements. Power feeder service characteristics shall be compatible with the service from which it is taken. Size, type and loading shall be per requirements as established by the National Electric Code (NEC). The contractor shall provide main service disconnect and over-current protection at a convenient location in accordance with the NEC. The Contractor shall provide power outlets for construction operations, with branch wiring and distribution boxes located as necessary and shall provide flexible power cords as required. Provide and install distribution equipment, wiring and outlets to provide single phase branch circuits for power and lighting.

01515 - Temporary Lighting

Contractor is to provide and install temporary lighting for construction site. Provide and install temporary lighting in all work areas sufficient to maintain a lighting level during working hours not less than the lighting level required by OSHA standards. As permanent lighting facilities are completed, they may be used in lieu of temporary facilities. Provide temporary lighting as required to satisfy safety and security requirements. Maintain a minimum illumination level of 30 foot-candles measured 3 ft. above floor in areas where finish trades are performing work. At exterior areas, provide 1 foot-candle of light after dark for security purposes.

01518 - Temporary Water

Contractor is to provide and install temporary water for construction site. Connect to an existing water source for construction operations.

01520 - Construction Facilities

Field offices and sheds shall be portable or mobile buildings, or buildings constructed with floors raised above the ground, securely fixed to foundations, with steps and landings at entrance doors. Structurally sound, secure, weather tight enclosures for office and storage spaces shall be maintained during progress of work and removed at completion of work. Size of field offices and sheds shall depend on contractors needs. Install appropriate fire extinguisher. HVAC shall be adequate to maintain comfortable conditions. At completion of work, all temporary facilities shall be removed and area restored to new condition.

01523 - Sanitary Facilities

Contractor shall provide and maintain in a neat and sanitary condition such accommodations for the use of his employees as will comply with laws and regulations.

01530 - Temporary Construction

The contractor shall provide and maintain for duration of work all required temporary stairs, ladders, ramps, runways and hoists for use of all trades.

01540 - Construction Aides

The contractor to provide all construction aides needed during construction which shall include but not limited to; elevators, hoists, cranes, etc.

01542 - Construction Scaffolding and Platforms

The contractor shall provide and maintain for duration of work all required temporary standing scaffolding. 'Independent tied' scaffolds will normally be provided for painting, pointing or other maintenance work.

01560 - Temporary Barriers and Enclosures

The contractor shall provide barriers to prevent unauthorized entry into construction areas and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

01600 - Product Requirements (Scope of Work)

All materials shall be installed in strict accordance with the manufacturer's written specifications or Material's Institute Standards. Where the manufacturer's recommended details are used, the manufacturer shall be responsible for the performance of their product. All Items not specifically mentioned that are required to make the work complete and operational shall be included.

Prior to submitting a bid, you must visit the site and satisfy yourself as to the nature and complexity and quantity of the works to be finally performed and the relevant equipment and labor skills, productivity and hours required to complete these works.

Installation and Storage - All materials, supplies and equipment shall be installed per manufacturer's recommendations and per applicable codes and requirements. Material stored on site shall be protected from damage by moisture, wind, sun, abuse or any other harmful affects.

01630 - Product Substitution Procedures

Contractor to investigate proposed products and determine that they are equal or superior in all respects to products specified. Coordinate installation of accepted substitutions into the Work, making such changes as may be required for the Work to be complete in all respects. Meet with clients and get change order request signed.

01640 - Owner Furnished Products

Contractor is not responsible for products furnished by the owner that are damaged prior to opening or receiving. Additional work required to install owner furnished products will be charged to the owner and due upon installation.

01700 - Execution Requirements

The execution of all work shall be in strict accordance with these specifications and manufacturer's written specifications or Material's Institute Standards. Where the manufacturer's recommended details are used, the manufacturer shall be responsible for the performance of their product. All work not specifically mentioned that is required to make the work complete and operational shall be included.

Codes - Construction shall comply with the Bermuda Building Code. It is the responsibility of the Contractor to insure compliance with said codes and modify the specifications as needed to comply with such codes.

Measurements - The Contractor shall check and verify all dimensions and conditions before proceeding with construction. Do not scale drawings. Noted dimensions take precedence.

Workmanship - Workmanship shall conform to the best and highest standards of quality in each trade and shall include all items of fabrication, construction and installation. All work shall be completed by skilled tradesmen and mechanics. Installation of all equipment and materials shall be in strict accordance with manufacturer's recommendations.

Insurance - Builders Risk Insurance shall be maintained by the contractor during the course of construction until final acceptance by the owner. All bonding and insurance requirements shall be coordinated with the Owner prior to beginning construction. All contractors shall provide and be solely responsible for necessary barricades and safety precautions, and strictly adhere to all governing codes on safety, including the OSHA Act.

01740 - Cleaning

Construction site is to be kept in a clean and orderly condition throughout the construction process. Clean interior spaces prior to the start of finish painting and the application of other finishes. At the conclusion of construction, the project shall be properly cleaned. This should include but not be limited to; cleaning the interior and exterior glass, surfaces exposed to view, remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surface areas, sweep and mop all tiled surfaces, etc. Replace filters of operating equipment. Clean equipment and fixtures to a sanitary condition. Clean exterior such as debris from roof, gutters, landscape areas, driveways and walks, etc. Remove all waste and surplus materials.

01760 - Protecting Installed Construction

Contractor is to protect all installed construction. If products or materials come with a protective coating, contractor shall maintain protective coating until construction is complete. Contractor shall replace any items that become defective or damaged. All materials and labor shall be provided by the successful contractor and shall therefore be included in his price.

The successful contractor will be responsible for all protection to all adjacent surfaces, clean up and supply of all materials and equipment to undertake the work and maintain the site in a tidy state

01903 - Hazardous Materials Abatement

Contractor is to abate any hazardous material or substance before beginning construction. Contractor shall contract with a properly licensed and qualified hazardous material contractor.

01904 - Hazardous Materials Removal and Disposal

Remove and dispose of any hazardous material before beginning construction. Contractor shall contract with a properly licensed and qualified hazardous material contractor.

DIVISION 02. SITE WORK

02000 - General

The works at Sylvia Richardson Care Facility comprises the repairs to concrete deck and steel beam and installation of new external soffits.

DIVISION 03. CONCRETE

03000 - General

Contractor shall provide labor and materials pertaining to concrete as required and as specified herein, while complying with all applicable building codes.

03050 - Concrete Specifications

All concrete work shall be designed on the basis of "Strength Design" in accordance with ACI 318 "Building Code Requirements for reinforced Concrete." Concrete work shall be proportioned in accordance with ACI 301 "Specifications for Structural Concrete" and ACI 211.1 "Recommended Practice for Selecting Proportions for Normal Weight Concrete". Concrete slabs, patios, driveways, walls and foundations shall be constructed of a minimum 3000 to 3600 psi concrete, 28 day test, with a 4" minimum to 6" maximum slump maximum, air-entrained to 5 - 8%. No additional water shall be added to concrete after slump test is recorded. Concrete should be a mix of high grade Portland cement, clean sand or granular fill and washed gravel or crushed stone as coarse aggregate per ACI 530. Maximum aggregate size shall be 3/4". All aggregates shall conform to ASTM C33. Gravel should be well graded and not exceed 1 1/2" in size. Water shall not exceed 5 1/2 gallons for each bag, unless sand is very dry. Concrete shall be mixed using an approved batch machine or mobile mixer until uniform in color and providing a 4" minimum to 6" maximum slump.

03100 - Concrete Formwork, Reinforcement and Materials

Provide all labor, materials and equipment necessary for the completion of the plain and reinforced concrete called for on the plans.

Construction of Forms - Construct wood forms of sound material, and of the correct shape and dimensions, constructed tightly and of sufficient strength. Brace and tie the forms together. Make joints and seams mortar tight. Install leakage control materials in accordance with manufacturer's installation instructions.

Chamfered Corners - Unless otherwise noted, provide chamfered corners on all exposed corners. Provide 3/4 inch moldings in forms for all chamfering required.

Embedded Items - make provisions for sleeves, anchors, inserts, water-stops and other features.

DIVISION 06. CARPENTRY

06000 - General

Contractor shall provide labor and materials pertaining to carpentry work as required and as specified herein, while complying with all applicable building codes.

DIVISION 09. FINISHES

09000 - General

Contractor shall provide labor and materials pertaining to the finishes as required and as specified in the drawings, while complying with all applicable building codes.

09900 - Paints and Coatings

Prepare each surface to receive scheduled work.

Notes:

- (i) All work inclusive of surface preparation.
- (ii) All surfaces are to be coated with minimum of one **primer and two finishing coats** of painting products (colour to be advised) as supplied by one of the below suppliers.

Bermuda Paint Co. Ltd
Brighton Hill
Devonshire DV 06
Tel: (441) 236 4662
www.bermudapaint.bm

S.A.L. Trading Limited
P.O. Box HM1190
Hamilton HMEX
Bermuda
Phone: (441) 232-2000
Fax: (441) 236-2978

Pembroke Paint Co. Ltd.
Market and Bakery Lanes
Pembroke HM 02
Tel: (441) 292 8368
Email: paint@northrock.bm

- (iii) All materials and labour shall be provided by the successful contractor and shall therefore be included in his price

APPENDIX 1

(PHOTOGRAPH)



APPENDIX 2

(DRAWINGS)

