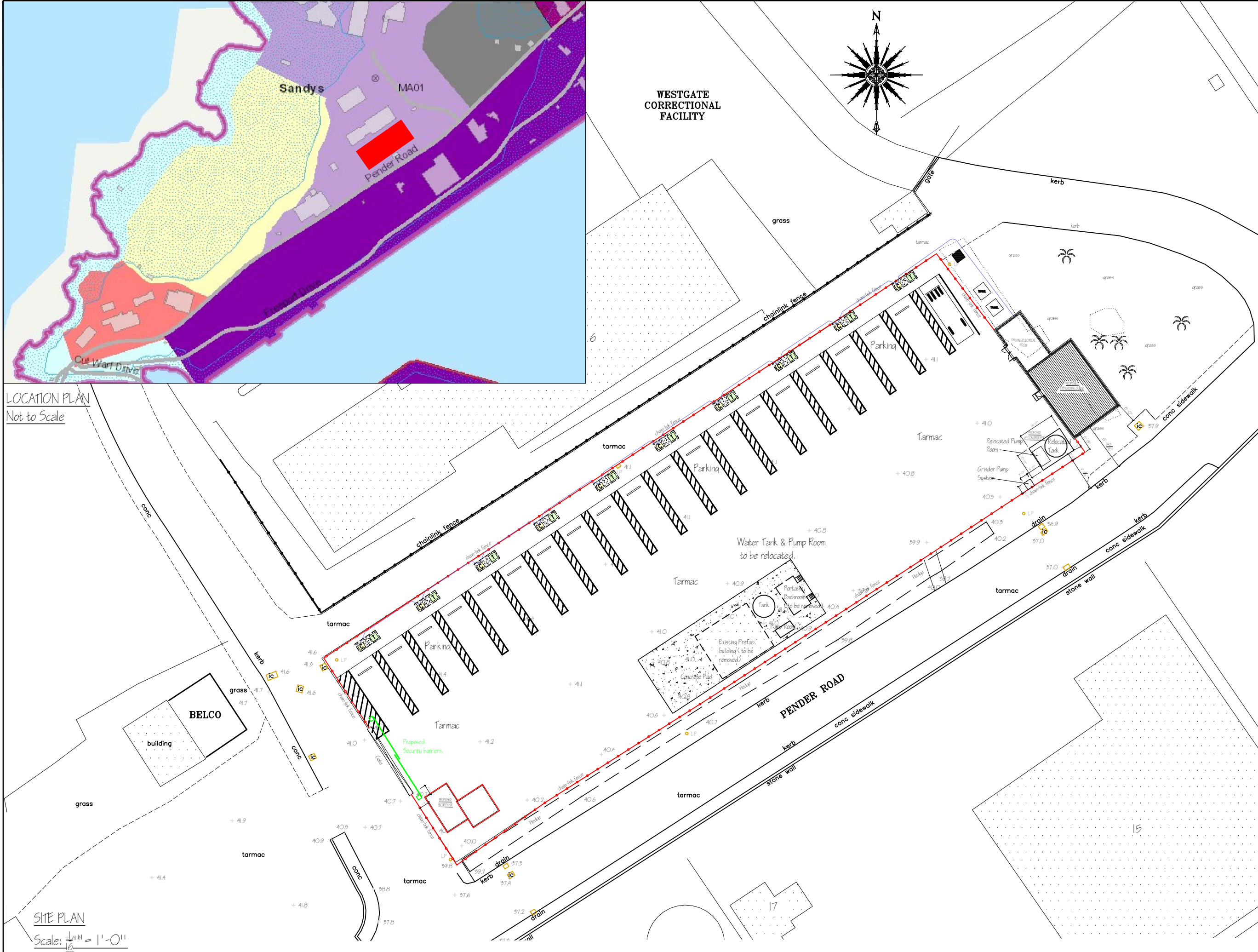
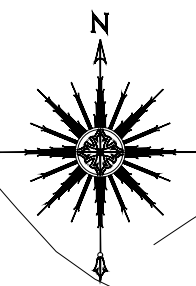


LOCATION PLAN
Not to Scale

WESTGATE
CORRECTIONAL
FACILITY



SITE PLAN
Scale: $\frac{1}{16}'' = 1'-0''$

All drawings and specifications, as instruments of service are the exclusive property of the agent, Thorne Enterprise & Drafting Services. Any reproduction either in whole or in part is prohibited without prior written consent from the agent.

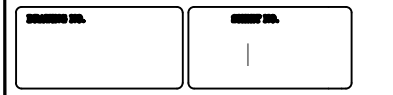
All drawings and specifications are intended to be read in conjunction with all other drawings and specifications issued in respect of this project.

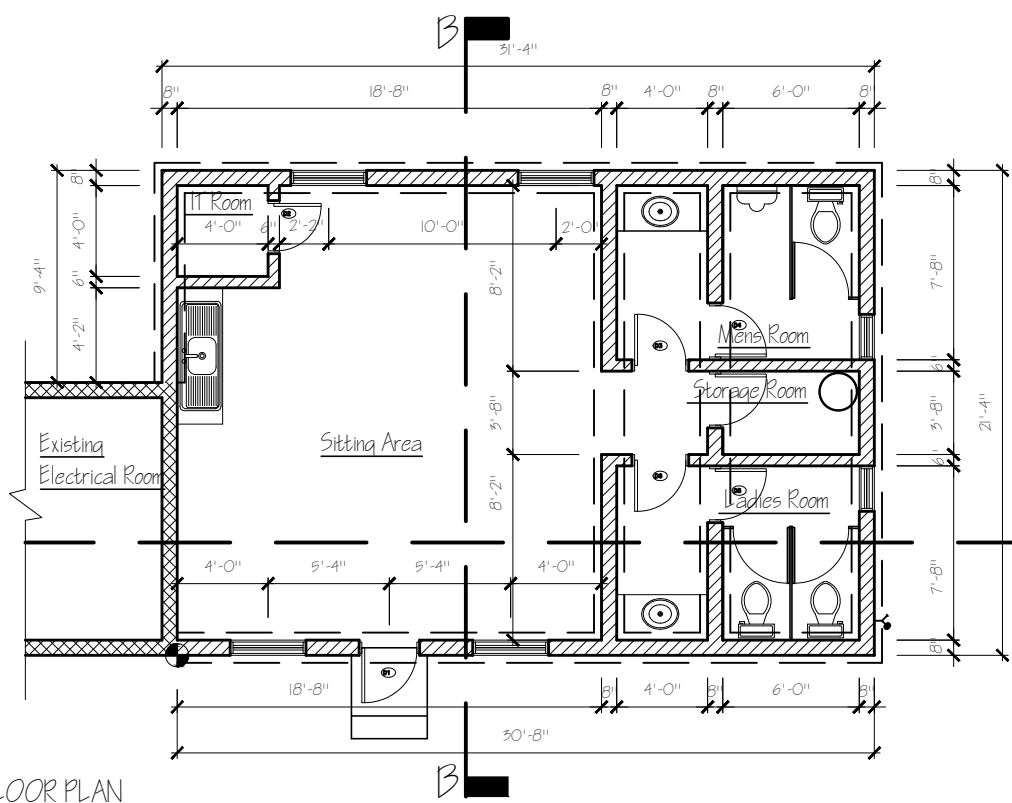
The contractor shall check and verify all dimensions and levels etc. on site and with all other drawings and specifications. The agent shall be informed immediately of any discrepancy.

DO NOT SCALE DRAWINGS

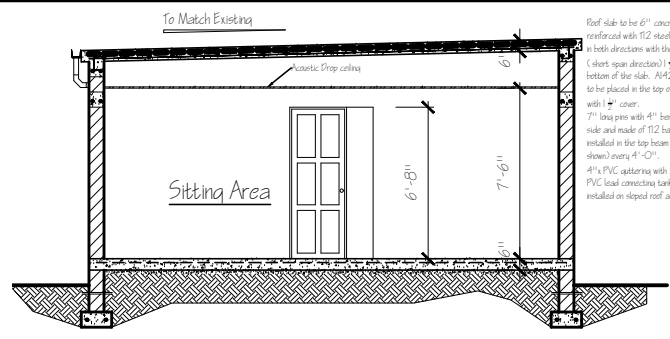
ISSUE	
Building Drawings (RFx)	
PROJECT NAME	Dockyard Bus Depot, Department of Public Transport, #5 Pender Road, Sandys
SHEET TITLE	Site & Location Plan
DRAWING FILE NAME:	
DESIGN/DRAFTSMAN	Ferdie Thorne
CHECKED	
APPROVED	
SCALE	As Shown
JOB NO.	1/2024
DATE	July 2024

PO Box 2550 Hamilton
8107, Bermuda
TELEPHONE (441) 537-8811
e-mail: thos@thos.com

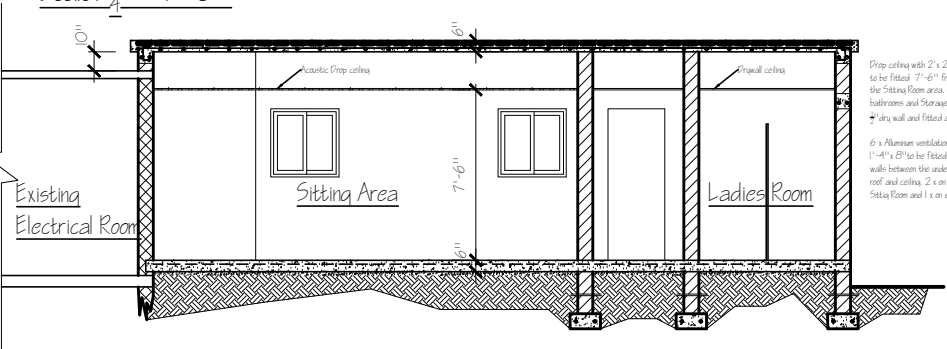




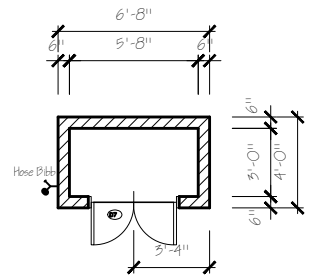
FLOOR PLAN
Scale: 1/4" = 1'-0"



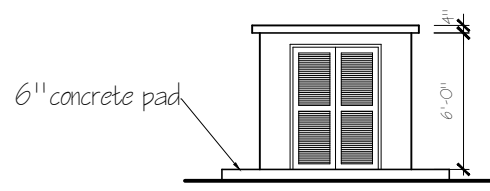
SECTION B-B
Scale: 1/4" = 1'-0"



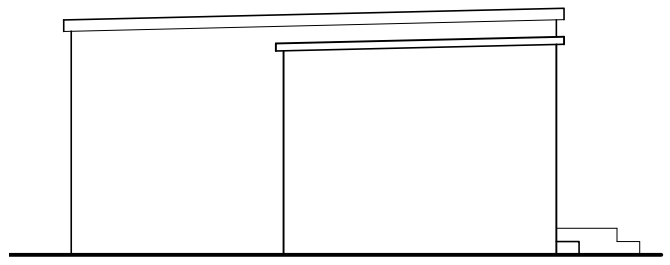
SECTION A-A
Scale: 1/4" = 1'-0"



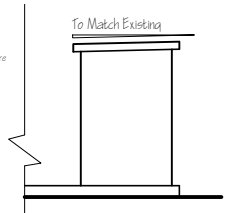
PUMP ROOM PLAN
Scale: 1/4" = 1'-0"



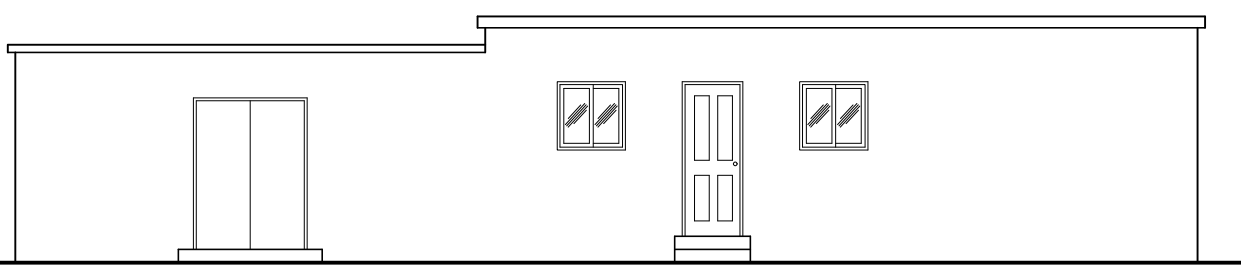
PUMP ROOM FRONT ELEVATION
Scale: 1/4" = 1'-0"



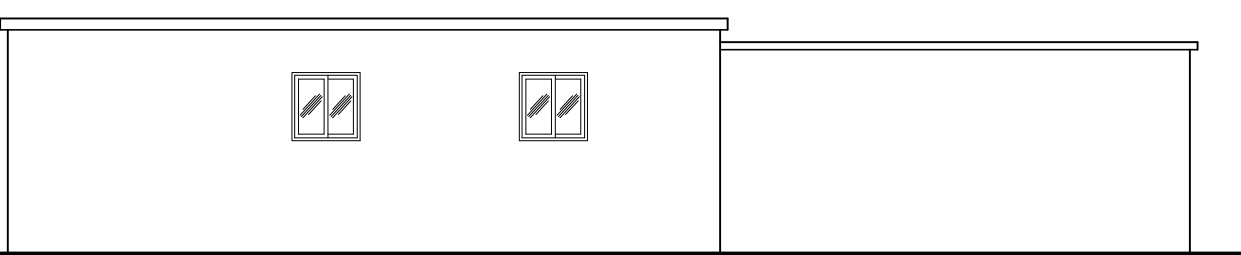
NORTH ELEVATION
Scale: 1/4" = 1'-0"



PUMP ROOM SIDE ELEVATION
Scale: 1/4" = 1'-0"



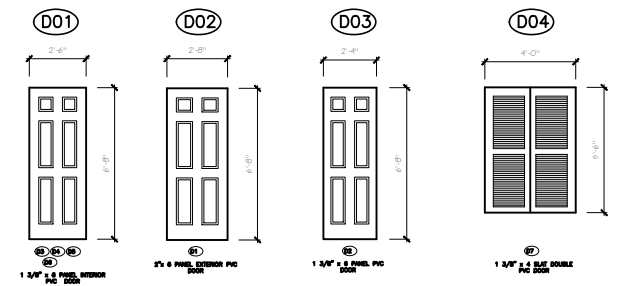
WEST ELEVATION
Scale: 1/4" = 1'-0"



EAST ELEVATION
Scale: 1/4" = 1'-0"

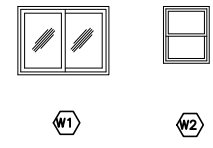
DOOR SCHEDULE

SIZE	MATERIAL	FRAME	DESCRIPTION
(D01) 2'-6" x 6'-8" x 1 3/8"	PVC	2" x 6" PVC	6 PANEL PVC DOOR
(D02) 2'-8" x 6'-8" x 1 3/8"	PVC	2" x 6" PVC	6 PANEL PVC DOOR
(D03) 2'-4" x 6'-8" x 1 3/8"	PVC	2" x 6" PVC	6 PANEL PVC DOOR
(D04) 4'-0" x 5'-6" x 1 3/8"	PVC	2" x 6" PVC	SLAT PVD DOUBLE DOOR



WINDOW SCHEDULE

SIZE	MATERIAL	FRAME	GLASS	DESCRIPTION
(W1) 48" x 36"	VINYL	PVC SUB DOUBLE	DOUBLE TINTED GLAZE	HORIZONTAL SLIDING
(W2) 24" x 30"	VINYL	PVC SUB DOUBLE	DOUBLE TINTED GLAZE	1/1 DOUBLE HUNG



Foundation Notes
Strip footings for 2-storey to be 1'0" deep X 2'0" and reinforced with 2x 116 bars Longitudinal, and 110 transverse bars @ 12".
Single storey strip footings to be 16" x 10" deep and reinforced with 2 x 112 bars longitudinal.
All foundations to bear on solid bedrock. Where the presence of rock is suspected but not detected, the Structural Engineer shall be retained to provide alternative details.
The stability of all excavations and structures are to be assured at all times. Soft areas are to be reported to Engineer for advice before proceeding with work.

Drop ceiling with 2' x 2' acoustic tiles to be fitted 7'-6" from the floor in the Sitting Room area. Ceiling in the bathrooms and Storage Room to be 4" dry wall and fitted at 7'-6".
6" x Aluminum ventilation louvers 1'-4" x 2' to be fitted on the outside walls between the underside of the roof and ceiling, 2 x on either side of Sitting Room and 1 x on each bathroom.

GENERAL NOTES
Check all levels and dimensions on site, prior to setting out of new work. All dimensions not provided on drawing are to be verified with the designer.
Provide all required equipment, quality materials and skilled technicians necessary to completely carry out the work described or that can be reasonably deduced from the drawings supplied and in accordance with the Bermuda Residential Code.
Coordinate all necessary trades and supplies to complete the work in a timely fashion.
Maintain the premises in a good workman like manner, confining the work only to the areas designated as work areas, and shall not allow waste material and trash to accumulate. This should be cleaned up and removed on a daily basis.
At his own expense take all precautions necessary to protect the lives of workers and the property of the owner during the contract as it directly relates to the Health and Safety Act, currently in effect.

MATERIAL SPECIFICATIONS
All structural concrete to be 3000 psi at 28 days minimum.
2000 psi concrete mix may be used in wall voids as concrete rubble fill.
Concrete to cover structural reinforcement at a minimum of: 1 1/2" above grade 5" below grade
All reinforcement to be galvanized. Deformed bars and wire mesh to have a minimum stress yield of 60,000 psi. All laps are to be staggered and wire tied as per below:
16 - 12", 18 - 15"
110 - 18", 112 - 24"
116 - 30", 120 - 36"
wire mesh - 12".
All concrete slabs on grade to be on well compacted fill with 2" sand as a leveling bed covered with 6 mil. sheet polyethylene, as a vapour barrier, 6" slabs reinforced with A142 welded wire mesh at top minimum cover 1 1/2".

All drawings and specifications, as instruments of service are the exclusive property of the agent, Thorne Enterprise & Drafting Services. Any reproduction either in whole or in part is prohibited without prior written consent from the agent.
All drawings and specifications are intended to be read in conjunction with all other drawings and specifications issued in respect of this project.
The contractor shall check and verify all dimensions and levels etc. on site and with all other drawings and specifications. The agent shall be informed immediately of any discrepancy.
DO NOT SCALE DRAWINGS

ARCHITECTURAL KEY

- Detail Designation
- Drawing Number
- Room Number
- Door Designation
- Window Designation
- Concrete
- Concrete Block
- Concrete Filled Block
- Bermuda Stonework
- Studwork
- To Be Removed
- Existing Masonry

ISSUE

Building Drawings (RFx)

PROJECT NAME
Dockyard Bus Depot,
Department of Public Transport,
#5 Pender Road, Sandys

SHEET TITLE
Floor Plans, Sections & Elevations

DRAWING FILE NAME:

DESIGN/DRAFTSMAN Ferdn Thorne

CHECKED

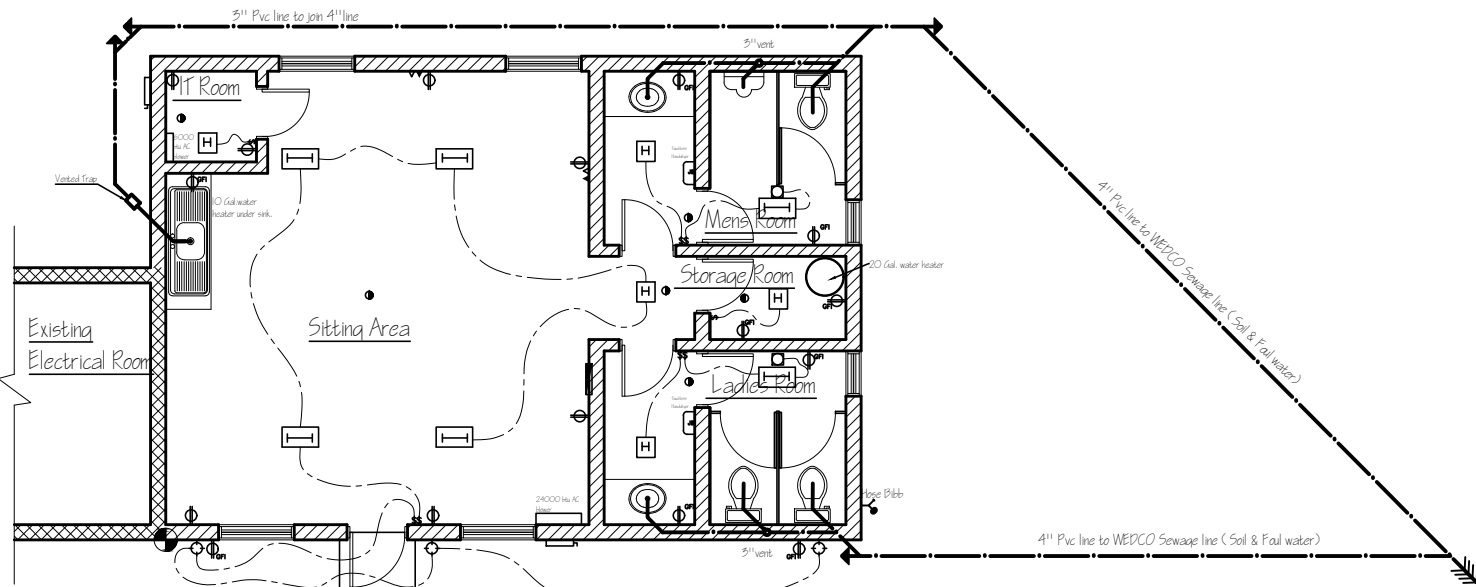
APPROVED

SCALE As Shown

JOB NO. 1/ 2024

DATE August 2024

PO Box 3328 Hamilton
NSW, Australia
TELEPHONE (61) 5537 4611
e-mail the519@mevred.com



ELEC/ DRAINAGE FLOOR PLAN

Scale: 1/4" = 1'-0"

VENTING:

A vented trap to be provided where the kitchen drain exits the building and connects to the kitchen sewer pipe (3" pvc).

All Venting to conform with the Bermuda Residential Code.

SMOKE ALARMS

Hard wired audible smoke detectors to be installed as shown on the drawing and interconnected so that the activation of one will activate all the others in the dwelling unit. The alarms to receive power directly from the building wiring without a disconnect switch. The alarms to also have a battery backup.

BATHROOM VENTILATION

Mechanical ventilation to be installed in Bathroom and must provide at least 50 cubic feet per minute of outdoor ventilation air.

The exhaust system must be switched with the corresponding bathroom light and be activated when the light is illuminated.

The exhaust to be vented directly to the outside.

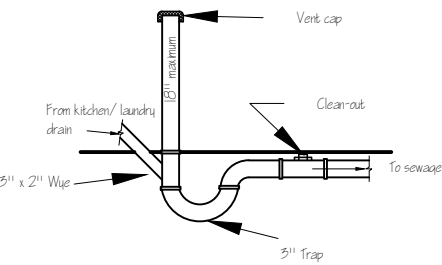
DRAINAGE

All Drainage lines to be schedule 40 PVC and installed according to the Bermuda Residential Code.

Soil lines to be 4" PVC with required venting located as shown on the drawings.

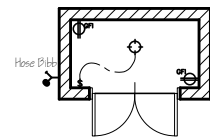
Foul water lines to be 4" PVC with venting as shown.

Kitchen and Laundry lines to be 5" PVC with venting as shown.



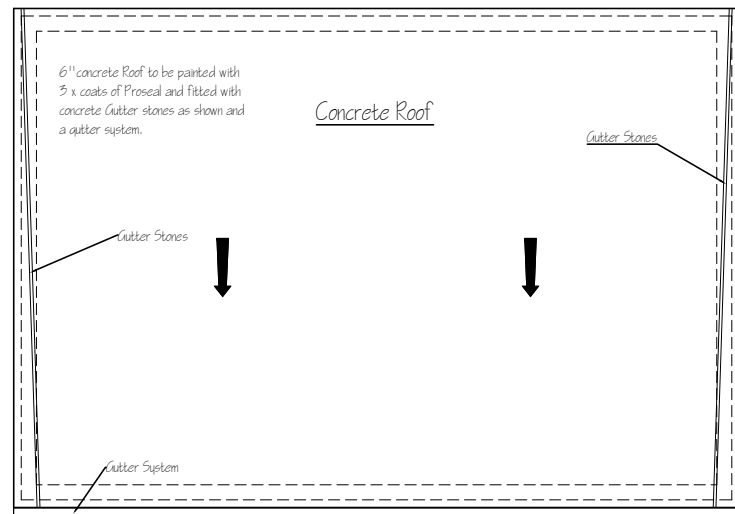
VENTED TRAP DETAIL

Scale: 1" = 1'-0"



PUMP ELECTRICAL ROOM PLAN

Scale: 1/4" = 1'-0"



ROOF PLAN

Scale: 1/4" = 1'-0"

ELECTRICAL KEY

- 20 amp Duplex Receptacle
- As Above, Split Wired
- 220V Receptacle
- Dedicated Receptacle
- Floor Receptacle
- Ground Fault Interrupter
- Single Pole Switch
- 3 Way Switch
- Dimmer Switch
- Lighted Switch
- Ganged Devices
- Ceiling Mounted Fixture
- Wall Mounted Fixture
- Recessed Light Fixture
- Fluorescent Light Fixture
- Telephone Outlet
- Cable Outlet
- Junction Box
- Breaker Panel
- Disconnect
- Meter
- Mounting Height
- Smoke Detector
- Heater, Light, Vent
- Heater, Vent
- Sensor Operated Light
- Light Fixture To Be Removed
- Fluorescent Light Fixture
- Electrical Outlet To Be Removed
- Electrical Switch To Be Removed
- LED Ceiling Mounted Fixture 2'x4'
- LED Ceiling Mounted Fixture 2'x2'

TOILET STALL NOTES

MATERIALS: Stainless Steel #301/304 series in #4 finish
THICKNESS: Doors..... 22 Gauge, Finished to 1" (25.4mm) at 58" (1473) high
 Panels..... 22 Gauge, Finished to 1" (25.4mm) at 58" (1473) high
 Pilasters..... 20 Gauge, Finished to 1 1/2" (31.75mm) at 70" (1778) high

CONSTRUCTION:
DOORS: Finished to 1" (25.4) thick, constructed of two sheets of 22-gauge stainless steel formed and cemented under pressure to a honeycomb core. Door face sheets are welded at intervals around the entire perimeter. All edges to be finished with a 20-gauge stainless steel interlocking molding. Corners are finished with pre-formed stainless steel reinforcements. Doors shall have internal steel reinforcements to secure hardware items.

Panels: Finished to 1" (25.4) thick, constructed of 2 sheets of 22-gauge stainless steel, formed and cemented under pressure to a honeycomb core. All partition edges are finished with a 20-gauge stainless steel interlocking molding. Corners will be finished with pre-formed stainless steel reinforcements.

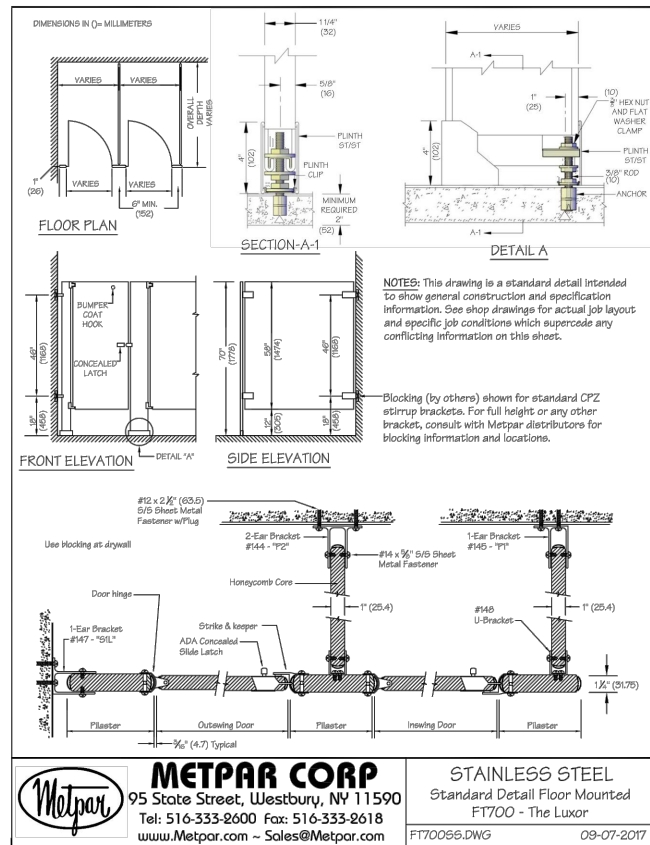
Pilasters: Finished to 1 1/2" (31.75) thick, constructed of two sheets of 20-gauge stainless steel, formed and assembled with a honeycomb core. Face sheets are electrically welded at intervals around the entire perimeter. All pilasters will have a 4" (101.6) high #4 finish stainless steel plinth and have straight, flat sides profile with rounded edges to match the pilaster profile. Mounting channels are 12-gauge steel electrically welded to the pilaster face sheets. Zinc plated 3/8" (9.525) diameter studs, lock washers, nuts and lead expansion shields are provided.

BRACKETS: Attachment brackets are die cast chrome plated stirrup brackets. Minimum of two (2) fittings at each connection.

DOOR HARDWARE: Each compartment will be complete with two door hinges, latch, stop and keeper, coat hook, as well as all necessary fittings and fastenings for a complete installation. Hinges are fastened by means of tamper-proof Torx Pin Head through bolts, which are polished chrome plated. All other screws to be tamper-proof Torx Pin Head chrome plated. Doors are to be hung on a concealed, "stay-set", fully adjustable, non-rising door mechanism. Upper hinge pin shall be 3/8" (9.525) diameter steel. All hinges will have wrap-around flanges with a minimum of 5/8" (15.875) wrap onto pilaster. All doors will have a concealed ADA approved slide latch with external "no-use" indicator.

FINISH: All stainless steel partitions are supplied with high strength 300 series alloys in a #4 finish. Optional 2B leathergrain and 5SM diamond pattern textured finishes are also available.

OPTIONS: A continuous anodized Vinyl Strip aluminum extrusion, provided for both strike & hinge sides to eliminate gaps between the door & pilaster. Full height bright dip anodized aluminum brackets or stainless steel angles & U-Channels. Stainless steel MutliCam® hinges. Cast S/S wraparound hinges with matching surface latch, S&K.



TOILET STALL DETAILS

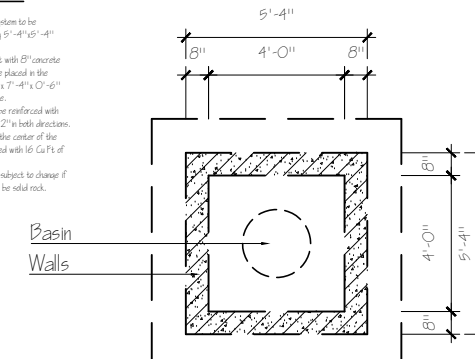
Not To Scale

METPAR CORP
 95 Stote Street, Westbury, NY 11590
 Tel: 516-333-2600 Fax: 516-333-2618
 www.Metpar.com - Sales@Metpar.com

STAINLESS STEEL
 Standard Detail Floor Mounted
 FT700 - The Luxor
 FT700S6.DWG 09-07-2017

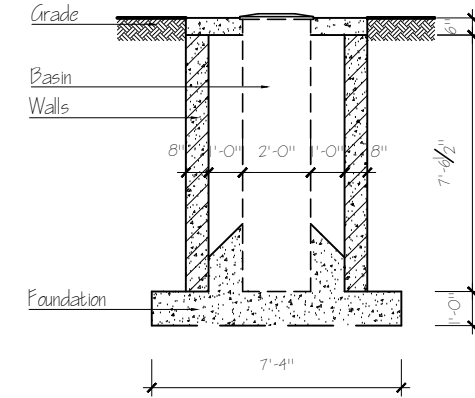
GRINDER PUMP SYSTEM

Location for the system to be mounted to carry 5'-4" (1651) - 4" (101.6) diameter. Surround to be built with 8" concrete filled blocks and be placed in the center of a 7'-4" (2238) x 7'-4" (2238) deep concrete base. Concrete base to be reinforced with 1/2" steel bars @ 12" in both directions. Plans to be set in the center of the base and surrounded with 10 Ga Fls of concrete. Specifications are subject to change if location is found to be solid rock.



GRINDER PUMP SYSTEM PLAN

Scale: 3/8" = 1'-0"



GRINDER PUMP SYSTEM SECTION

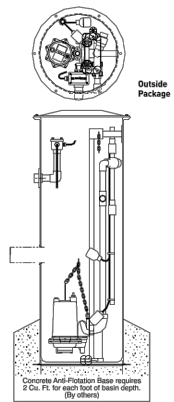
Scale: 3/8" = 1'-0"

FEATURES

Everything is included Completely pre-engineered, pre-packaged, pre-assembled* systems ready for installation. Eliminate guesswork of selecting components - no mismatched or improperly fitting parts.

Easy installation Installer only has to excavate, secure, connect discharge lines, locate and mount inlet hub, locate and mount panel, install pump in basin and connect electrical wiring.

*Pump and inlet hub shipped separately - must be field installed. Wiring connections to be made by qualified electrician.



GRINDER PUMP SYSTEM DETAILS

Not To Scale

MYERS® MRG20 SERIES

SPECIFICATIONS

Pump Model - Pump shall be of the centrifugal type, Myers model MRG20 Series, with an integrally built-in grinder unit and submersible type motor. The grinder unit shall be capable of macerating all material in normal domestic and commercial sewage, including reasonable amounts of foreign objects such as small wood, sticks, plastic, thin rubber, sanitary napkins, disposable diapers and the like, to a fine slurry that will pass freely through the pump and 1 1/2" discharge pipe. Discharge shall be 1 1/2" NPT.

Operating Conditions - Pump shall have a capacity of _____ GPM at a total head of _____ feet and shall use a 2 hp motor operating at 3450 RPM.

Motor - Pump motor shall be of the submersible type rated 2 hp at 3450 RPM. Motor shall be for 60 Hz, single phase, 230 volts. Motor shall be capacitor start, capacitor run type for high starting torque.

Stator winding shall be of the open type with Class F insulation, good for 155° C (311° F) maximum operating temperature. Winding housing shall be filled with a clean, high electric oil that lubricates bearings and seals and transfers heat from windings and rotor to outer shell. Air-filled motors which do not have the superior heat dissipating capabilities of oil-filled motors shall not be considered equal.

Motor shall have two heavy-duty ball bearings to support pump shaft and take radial and thrust loads. Ball bearings shall be designed for 50,000 hours B-10 life. Stator shall be tested to seal plate for easy motor replacement.

The motor shall have a heat sensor thermostat and overload attached to the top end of the motor windings to stop the motor if the motor winding temperature reaches 284° F. The high temperature shutdown will cause the pump to cease operation, should a control failure cause the pump to run in a dry wet well. The thermostat shall reset automatically when the motor cools to a safe operating temperature.

The common motor pump and grinder shaft shall be of #416 stainless steel threaded to take pump impeller and grinder impeller.

Seals - Motor shall be protected by one rotary mechanical seal. Seal face shall be carbon and ceramic and lapped to a flatness of three light bands. Optional tungsten and carbon.

Pump Impeller - The pump impeller shall be of the recessed Myers type to provide an open unobstructed passage through the volute for the ground solids. Impeller shall be engineered thermoplastic and threaded onto stainless steel shaft.

Grinder Construction - Grinder assembly shall consist of grinder impeller and shredding ring and shall be mounted directly below the volute passage. Grinder impeller to be threaded into stainless shaft and be locked with screw and washer. The shredding ring shall be pressed into an iron holding flange for easy removal. The flange shall be provided with tapped back-off holes so that screws can be used to push the shredding ring from housing.

All grinding of solids shall be from action of the impeller against the shredding ring.

Both grinder impellers and shredding ring shall be of 440C stainless steel hardened to 58-60 Rockwell C.

Corrosion Protection - All iron castings shall be pre-treated with phosphate and chromic rinse and to be painted before machining, and all machined surfaces exposed to the sewage water to be re-painted. All fasteners to be 300 series stainless steel.

Power Cord - The motor power cord shall be 14 GA AWG (3 PHASE) OR 16 GA AWG (1 PHASE). The cable jacket shall be sealed at the motor entrance by means of a rubber compression washer and compression nut. A heat shrink tube filled with epoxy shall seal the outer cable jacket and the individual leads to prevent water from entering the motor housing.

Level Control - An automatic control is provided by a heavy-duty float switch tethered to the side of the pump, having a piggyback float switch operates the pump directly without need of control panel.

All drawings and specifications, as instruments of service are the exclusive property of the agent, Thorne Enterprise & Drafting Services. Any reproduction either in whole or in part is prohibited without prior written consent from the agent.

All drawings and specifications are intended to be read in conjunction with all other drawings and specifications issued in respect of this project.

The contractor shall check and verify all dimensions and levels etc. on site and with all other drawings and specifications. The agent shall be informed immediately of any discrepancy.

DO NOT SCALE DRAWINGS

ISSUE

Building Drawings (RFx)

PROJECT NAME

Dockyard Bus Depot,
 Department of Public Transport,
 #5 Pender Road, Sandys

SHEET TITLE

Roof, Drainage & Elec. Plans, Details

DRAWING FILE NAME:

DESIGN/DRAFTSMAN Ferdy Thorne

CHECKED

APPROVED

JOB NO.

DATE

PO Box 3250 Hamilton
 Biltz, Bermuda
 TELEPHONE (461) 557-6411
 e-mail theb319@btcc.com