

Ambulance Vestibule Renovation

Ground Floor North

Barron Center

1145 Brighton Avenue

Portland, Maine 04102

Architect

Winton Scott Architects
5 Milk Street
Portland, Maine 04101
207-774-4811

Mechanical and Electrical Engineer

Neill and Gunter
282 Payne Road
Scarborough, Maine 04074
207-883-3355

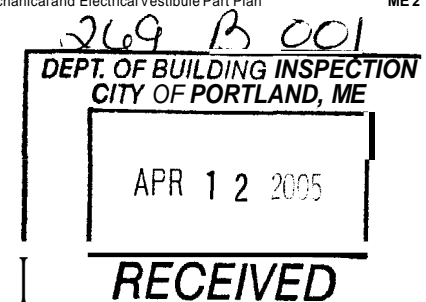
Release Date: December 19, 2004

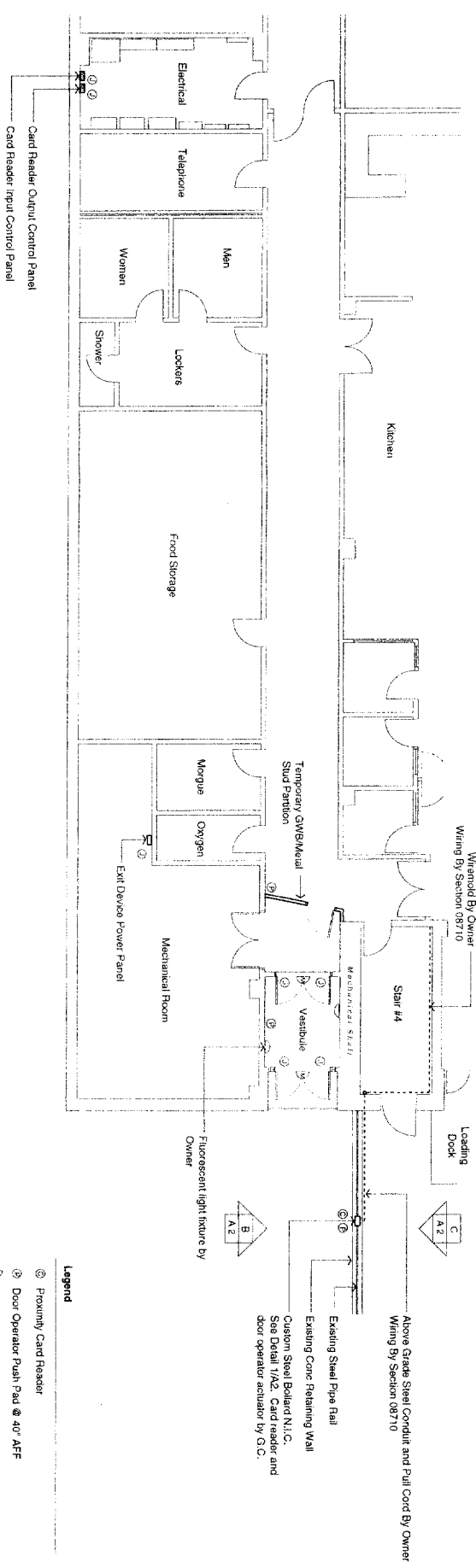
Abbreviations

AB	Anchor Bolt	COL	Column	FL	Flush	LAM	Laminated	PARTN	Partition	STRUCI	Structure, Structural
ABV	Above	COMP	Compressible	FLR	Floor	LAV	Lavatory	PR	Panicle Board	SUP	Support
ACT	Acoustical Ceiling Tile	CONC	Concrete	FLSHG	Flashing	LAV	Lavatory	PC	Precast	SUSP	Suspended
ADJ	Adjustable, Adjacent	CONST	Construction	FSR	Flexible Sheet Roofing	LF	Linear Feet	PLAM	Plastic Laminate	SYM	Symmetrical
AF	Above Finished Floor	CON	Continuous	GA	Gauge	LP	Low Point	PL	Plate	T	Tread
AHU	Air Handling Unit	COORD	Coordinate	GALV	Galvanized	LPL	Low Pressure Laminate	PBWB	Phenolic Panel Board	TB	Tack Board
ALT	Alternate	CFT	Carpet	GB	Grab Bar	MAS	Masonry	PRE: N	Prefinished	TEMP	Tempered
ALUM	Aluminum	CT	Ceramic Tile	GC	General Contractor	MA	Material	PT	Pressure Treated	THR	Threshold
AP	Access Panel	CSK	Countersunk Screw	GL	Glass	MAX	Maximum	QTD	Quoted	THRU	Through
ARCH	Architectural	CUH	Cabinet Unit Heater	GWB	Gypsum Wall Board	MDO	Medium Density Overlay	TR	Radius Riser	TOC	Top of Concrete
AT	At	DBL	Double	GYP BD	Gypsum Board	MECH	Mechanical	RAU	Radiant	TOS	Top of Slab
B	Basement, Base	DF	Drinking Fountain	HC	Handicapped Hollow Core	MFR	Manufacturer	RC	Resilient Channel	TR	Tack Rail
BB	Bullfin Board	DH	Double Hung	HWD	Hardwood	MH	Man Hole	RBF	Retain Drain	TYP	Typical
BD	Board	DIA	Diameter	HDWD	Hardwood	MIR	Mirror	REFR	Refrigerator	T&B	Top And Bottom
BET	Between	DIM	Dimension	HM	Hollow Metal	MISC	Miscellaneous	REINF	Reinforcing	T&G	Tongue And Groove
BEV	Beveled	DRW	Drawer	HORIZ	Horizontal	MLDG	Molding	RCOJ	Required	UC	Undercut
BIT	Bituminous	DTL	Detail	HP	High Point	MO	Masonry Opening	EL	Electrical	UV	Unit Ventilator
BLDG	Building	DW	Drainwasher	HPL	High Pressure Laminate	MTG	Mounted, Mounting	RM	Room	RO	Rough Opening
BLKG	Blocking	DWG	Drawing	HR	Hour	MTL	Metal	RUB	Rubber	SC	Solid Core
BM	Bench Mark, Beam	EA	Each	HT	Height	NAT	Natural	SECT	Section Feet	SH	Shell
BOT	Bottom	ELEV	Elevation	HTG	Heating	NIC	Not In Contract	SHF	Sheathing	SIM	Similar
BRK	Brick	ELEC	Electrical	HW	Hot Water	NO	Number	SPEC	Specifications	SQ	Square Feet
C	Course	EQ	Equal	IG	Inside Diameter	NOM	Nominal	STD	Standard	STU	Storage
CAB	Cabinet	EQ	Equal	INCL	Inclusive	NTS	Not To Scale				
CAP	Capacity	EXH	Exhaust	INS	Insulation	OA	Overall				
CB	Chalk Board	EXIST	Existing	INT	Interior	OC	On Center				
CEM	Cement	EXP	Expansion	INV	Invert	OD	Outside Diameter				
CJ	Control Joint	EXT	Exterior	IS	Inside	OH	Overhead				
CL	Center Line	FC	Fire Code	JC	Janitor Closet	OPN	Opening				
CLG	Ceiling	FCH	Furring Channel	JC	Janitor Closet	OPP	Opposite				
CLO	Closet	FD	Floor Drain	JST	Joist	OS	Outside				
CLR	Clear	FE	Fire Extinguisher	JT	Joint						
CMT	Ceramic Mosaic Tile	FFE	Finish Floor Elevation	KIT	Kitchen						
CMU	Concrete Masonry Unit	FIN	Finished								

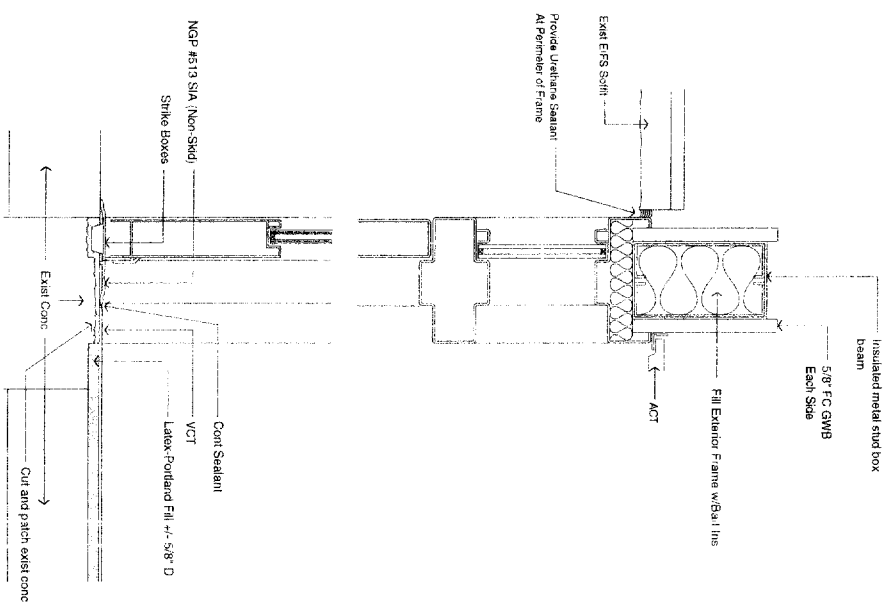
Drawing List

Sheet Name	Number
Overall Floor Plan	A 1
Floor and Ceiling Plans	A 2
Specifications	A 3
Mechanical and Electrical Vestibule Part Plan Demolition	DME 1
Mechanical and Electrical Specifications, Notes and Legend	ME 1
Mechanical and Electrical Vestibule Part Plan	ME 2

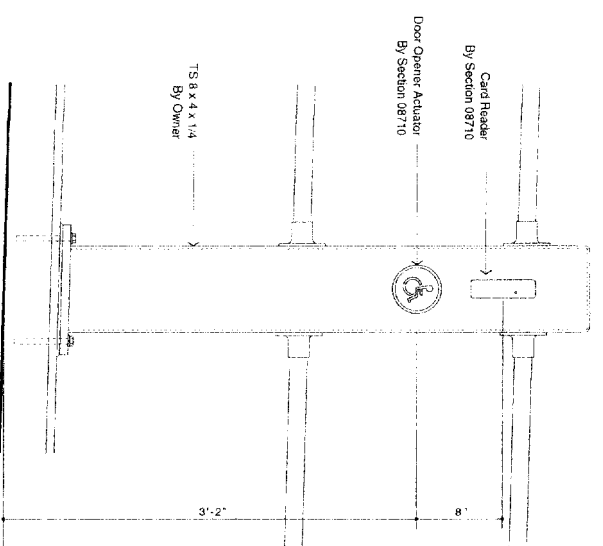




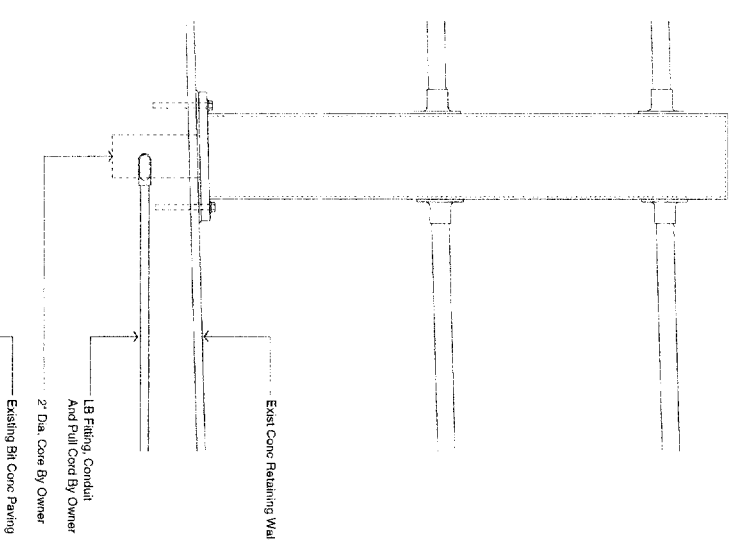
A Floor Plan
1/8" = 1'-0"



1 Exterior Door Frame Section Detail
3/4" = 1'-0"



B Bolard Front
1 1/2\"/>



C Bolard Rear
1 1/2\"/>

**Ambulance
Entrance
Renovation**

Barron Center
Portland, Maine 04102

Architect

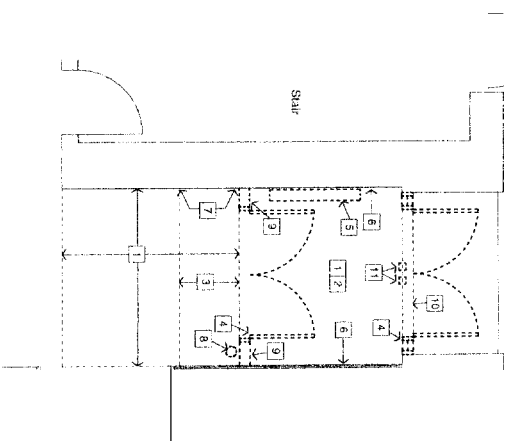
Winton Scott Architects
Portland, Maine
04101

Project Plans

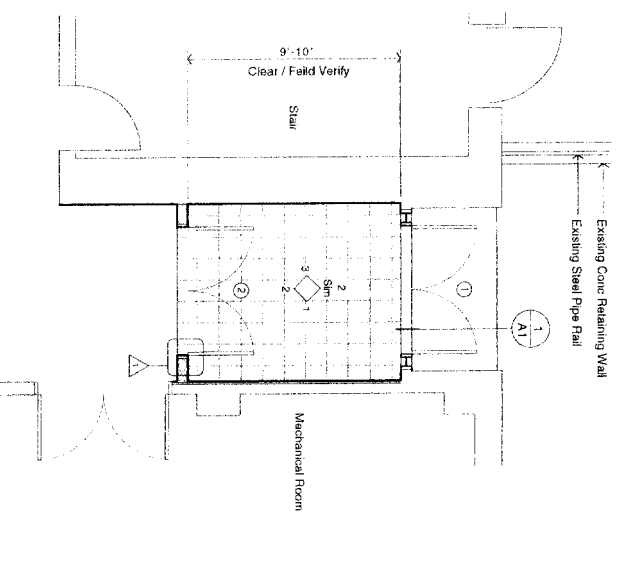
A 1

Scale: As Shown
December 19, 2004

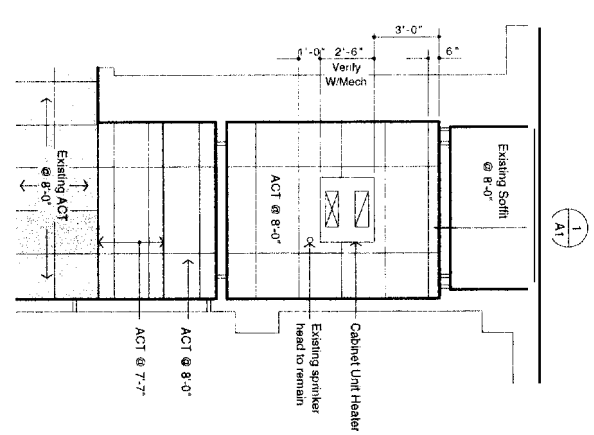
- Remove Notes**
- 1 Remove existing ACT ceiling.
 - 2 Remove existing floor mat and fill existing 1/2" depression with latex/portland fill.
 - 3 Remove existing VCT and grind conc. smooth.
 - 4 Remove existing door and frame. Turn hardware over to Owner.
 - 5 Remove existing connector. Open wall and remove piping drops back to mains. Patch wall to match existing.
 - 6 Remove vinyl base.
 - 7 Remove vinyl base and oak wall bumper board.
 - 8 Remove existing fire extinguisher. Save for reuse.
 - 9 Remove existing metal stud framed GMB partition.
 - 10 Remove existing metal threshold.
 - 11 Cut concrete to accept exit device bottom strike case. Overcut and grout strike box solid.



A Remove Pipe
1/4" = 1'-0"



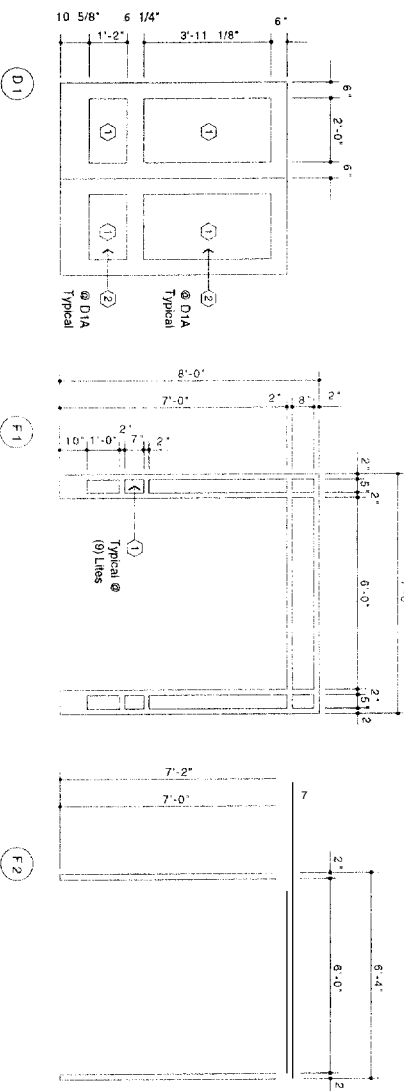
B Floor Plan
1/4" = 1'-0"



C Reflected C
1/4" = 1'-0"

Glazing Schedule

Key	O.A. Thk	Inside Face	Outside Face
①	5/8"	3/16" Temp GL	3/16" Temp GL
②	1/4"	Temp GL	N.A.



Door Types
3/8" = 1'-0"

Frame Types
3/8" = 1'-0"

Door and Frame Schedule

Door No.	Size	Thickness	Door		Frame		Head	Jamb	Hardware	Threshold	Label	Remarks
			Material	Finish	Material	Finish						
1	Pr. 5'0" x 7'0"	1 3/4"	HMI	PTD	HMI	PTD	FI	HMI 1	T/A1			
2	Pr. 5'0" x 7'0"		HMZ	PTD	HMZ	PTD	FI	HMI 2				

Legend

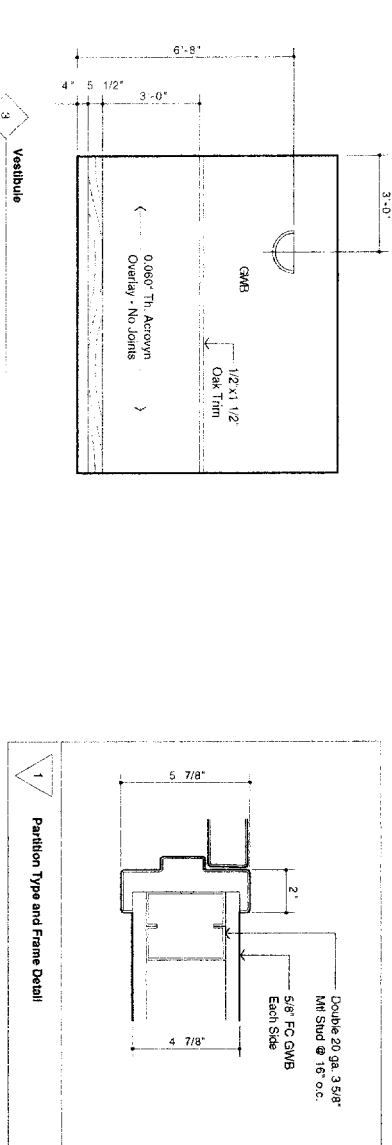
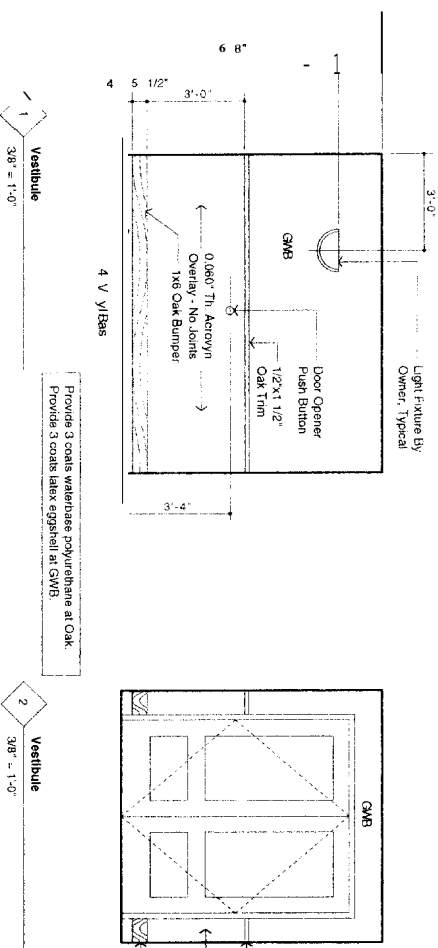
- HMI 16 Ga. Door / 1/4 Ga. Frame - Welded G90 Hot Dip Galvanized Hollow Metal Frame
- HMI 2 18 Ga. Door / 1/4 Ga. Frame - Welded Hollow Metal Frame
- PTD (1) Coat Primer + (2) Coats Semi-Gloss Frame Sherwin Williams 596-200

Finish Schedule

Room	Room Name	Floor/Demo	Floor	Walls	Ceiling	Remarks
101	Vestibule	D1	VCT	GMB	ACT	ACT W/wooding/Oak Trim NAT

Finish Schedule Legend

- D1 Remove existing mat / Remove vinyl base and patch wall smooth.
- ACT Armstrong Fine Fingured Second Look 1 - #1765 204 w/2" x 12" Scoring
- Provide Praline XL 151/151 White Exposed T&G
- GMB Gypsum Wall Board Paint 3 Coats Latex Eggshell
- VCT 12 x 12 Marlington Insulators Premium Vinyl Composition Tile include 4" Vinyl Base at Walls
- ACTV C/S Products Acroyr® 0.060" Thick Inside corner mold @ 4 locations
- NAT 4 Coats Clear Semi Water Base Polyurethane



SECTION 08710 - FINISH HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. All of the Contract Documents, including General and Supplementary Conditions and Division 1 General Requirements, apply to the work of this section.

1.02 DESCRIPTION OF WORK

- A. The work of this section includes, but is not limited to, the following:
 1. Providing hardware for all doors, except doors provided with their own hardware.
 2. Providing lock cylinders for all work requiring cylinders.
 3. Providing the services of a qualified hardware consultant to prepare detailed schedules of hardware required for the project.

1.03 RELATED WORK

- A. Carefully examine all of the Contract Documents for requirements which affect the work of this section. Other specifications - sections which directly relate to the work of this section include, but are not limited to, the following:
 1. Section 08100 - Steel Doors and Frames, work requiring template coordination, metal strappings for fire-rated doors.
 2. Section 16 - Electrical.

1.04 INTENT

- A. A major intent of the work of this section is to provide hardware for every door in the project, except as indicated, so that each door functions correctly for its intended use. Provide only hardware that complies with applicable codes and requirements of authorities having jurisdiction including requirements for barrier-free accessibility.

1.05 QUALITY ASSURANCE

- A. Hardware supplier shall have in his employ one or more members of the Door and Hardware Institute to include at least one Certified Architectural Hardware Consultant in good standing, who shall be responsible for preparation of the Finish Hardware Schedule. This Consultant shall be acceptable to the Architect and is to ensure that the intent requirement of this specification is fulfilled, and to certify that the work of this section meets or exceeds the requirements specified in this section and the requirements of authorities having jurisdiction.
- B. Hardware supplier shall warrant and guarantee, in writing, that hardware supplied is free of defective material and workmanship. Supplier shall furnish warrant and guarantee for a period of one year from Owner's Use and Occupancy that the hardware shall function in a satisfactory manner without binding, collapse, or dislodging of its parts, provided the installation is made to the manufacturer's recommendations.
- C. The hardware supplier shall repair or remedy, without charge, any defect of workmanship or material for which he is responsible hereunder.

1.06 SUBMITTALS

- A. Submit the following in accordance with SECTION 01300 - SUBMITTALS:
 1. Schedule: Submit to the Architect six (6) copies of the complete hardware schedule within fourteen (14) days after receipt of contract award. Submit drawings complete containing cuts and descriptive data of all products specifically scheduled therein. No materials shall be ordered or materials issued until the hardware schedule has been approved by the Architect. Form and detail of hardware schedule shall be in vertical format in conformance to the door and hardware industry standards. All hardware sets shall be clearly cross-referenced to the hardware set numbers listed in this specification.
 2. Samples: If requested, submit to the Architect for approval, a complete line of samples, as directed. Samples shall be plainly marked giving hardware number used in this specification, the manufacturer's number, types and sizes. The Architect will retain approved samples to the project site to be stored. Samples will remain with the Architect until delivery of all hardware to the project is complete, after which time they will be turned over to the General Contractor for incorporation into the work.
 3. Keying System Submission: Before cylinders are ordered, submit a complete proposed keying system for approval. This should be done after a keying meeting has been held with the owners representative.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Delivery of hardware shall be made to the project by the Hardware Supplier in accordance with the instructions of the General Contractor.
- B. The finish hardware shall be delivered to the jobsite and received there by the General Contractor. The General Contractor shall prepare a locked storage room with adequate shelving for all hardware. The storage room shall be in a dry, secure area, and shall not include storage of other products by other trades.
- C. The General Contractor shall furnish the Hardware Supplier with receipts for all hardware and accessory items received, and shall send copies of these receipts to the Architect, if requested.

1.08 REGULATORY REQUIREMENTS

- A. Conform to all applicable codes. Provide all covers, projections, coatings, knurling, opening and closing forces, and other special functions required by State and Local Building Codes, and all applicable Handicap Code requirements.
- B. For fire rated openings provide hardware complying with NFPA 80 and NFPA 101, without exception. Provide only hardware tested by UL for the type and size of door installed and fire resistance rating required.

1.09 SPECIAL REQUIREMENTS

- A. Hardware Supplier shall determine conditions and materials of all doors and frames for proper application of hardware.
- B. The Hardware Schedule shall list the actual product series numbers. Bidders are required to follow manufacturers' catalog requirement for the actual size of door closures, brackets and holders. All door opening sizes are as noted on the Door Schedule and all hardware shall be in strict accordance with requirements of height, width, and thickness.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

Geared Hinges	Peniko McKinney Select	Memphis, TN Susanton, PA Kalamazoo, MI
Exit Devices	Von Duprin	Indianapolis, IN
Electrically Powered Door Operators and Presence Sensors	LCN	Poncaire, IL
Cylinders	Sargent	New Haven, CT
Controlled Access System	Compass Technologies	Exton, PA
Door Stops	Glynn Johnson Ives Rockwood	Indianapolis, IN New Haven, CT Rockwood, PA
Push/Pulls	Rockwood Borns Ives	Rockwood, PA Erie, PA New Haven, CT
Protective Plates	Rockwood Borns Ives	Rockwood, PA Erie, PA New Haven, CT
Thresholds / Weatherstripping	NGP	Memphis, TN
Silencers	Ives Glynn Johnson Rockwood	New Haven, CT Indianapolis, IN Rockwood, PA

2.02 MATERIALS AND QUALITY

- A. All hardware shall be of the best grade of solid metal entirely free from imperfections in manufacturer and finish.
- B. Qualities, weights, and sizes given herein are the minimum that will be accepted. It is the responsibility of the Hardware Supplier to supply the specified size and weight of hardware and the proper function of hardware in each case.
- C. Provide, as far as possible, locks of one lock manufacturer and hinges of one hinge manufacturer. Modifications to hardware that are necessary to conform to construction views or specified shall be provided as required for the same finished materials and finishes, finishes.

2.03 HARDWARE DESIGNATION

- A. All items of hardware are referenced by manufacturer's names and numbers. The manufacturer's names and numbers are used to define the function, design, and quality of the material to be supplied.

Substitution of products other than those listed shall be submitted to the Architect at least ten (10) days PRIOR to the bid date. The Architect shall be the sole judge of any proposed substitution.

2.04 TEMPLATES

- A. Hardware supplier shall immediately, but not later than three (3) days after approval of his Schedule by the Architect, furnish the General Contractor with complete template information necessary for the fabrication of doors, frames, etc. No templates shall be furnished prior to the approval of the hardware schedule.

2.05 HARDWARE FOR LABELED FIRE DOORS, EXIT DEVICES AND SMOKE DOORS

- A. Hardware shall conform to requirements of NFPA 80 for labeled fire doors and to NFPA 101 for exit doors, as well as to other requirements specified. Labeling and listing by UL Building Materials Directory, for class of door being used will be accepted as evidence of conformance to these requirements. Install minimum latch throw as specified on label of individual doors. Provide hardware listed by UL, except where heavier materials, larger sizes, or better grades are specified herein under paragraph entitled "Hardware Sets". In lieu of UL labeling and listing, test reports from a nationally recognized testing agency may be submitted showing that hardware has been tested in accordance with UL test methods and that it conforms to NFPA requirements. Specific hardware requirements of door or frame manufacturers which exceed sizes or weights of hardware herein listed shall be provided with no additional charge.

2.06 KEYS AND KEYING

- A. The hardware supplier shall review the specific hardware functions with the Architect and owner at the time of the keying review, to assure the appropriateness of each of the hardware functions. Failure to make this review does not relieve the hardware supplier from providing the proper functions.
 1. Hardware supplier shall meet with Owner to determine the specific keying requirements.
 2. Furnish three (3) change keys for each cylinder, keyed differently, six (6) change keys for each set keyed alike, and six sets where only (2) cylinders are keyed alike, four (4) change keys will be required.
 3. All keying is to be done at the factory or at an authorized Sargent Distributor facility to avoid duplication of the new cylinders.
- B. Key System: All cylinders shall be keyed into the existing Sargent removable core master key system.
 1. Hardware supplier shall meet with Owner to determine the specific keying requirements.
 2. Furnish three (3) change keys for each cylinder, keyed differently, six (6) change keys for each set keyed alike, and six sets where only (2) cylinders are keyed alike, four (4) change keys will be required.
 3. All keying is to be done at the factory or at an authorized Sargent Distributor facility to avoid duplication of the new cylinders.

2.07 FASTENERS

- A. Manufacture hardware to conform to published templates, generally prepared for machine screw installation.
- B. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Furnish exposed screws to match the hardware finish, or, if exposed in surfaces of other work, to match the finish of such other work as closely as possible, except as otherwise indicated.
- C. Provide concealed fasteners for hardware units which are exposed when the door is closed, except to the extent no standard manufactured units of the type specified are available with concealed fasteners. Do not use thru-bolts unless specifically approved by the Architect.
- D. All hardware shall be installed only with fasteners supplied by manufacturers of specific products.

2.08 PACKING AND MARKING

- A. All hardware shall have the required screws, bolts and fastenings necessary for proper installation and shall be wrapped in the same package as the hardware item for which it is intended and shall match finish of hardware with which to be used.
- B. Each package shall be clearly labeled indicating the portion of the work for which it is intended.

2.09 ENVIRONMENTAL CONCERN FOR PACKAGING

- A. The hardware shipped to the jobsite is to be packaged in biodegradable packs such as paper or cardboard boxes and wrapping. If non-biodegradable packing such as plastic, plastic bags or large amounts of styrofoam is utilized, then the Contractor will be responsible for the disposal of the non-biodegradable packing to a licensed or authorized collector for recycling of the non-biodegradable packing.

2.10 FINISH HARDWARE DESCRIPTION

- A. Hardware items shall conform to respective specifications and standards and to requirements specified herein.

B. MATERIALS AND FINISH: MATERIALS AND FINISHES SHALL BE:

1. Exterior Geared Hinges US28 (BHMA 628)
2. Door Closers Sprayed to match hardware finish
3. Exit Devices US2ND (BHMA 628)
4. Kick, Push Plates US3ED (BHMA 630)
5. All other hardware shall be US300 (BHMA 626), or as scheduled
6. Weatherstrips, Thresholds: US28 (BHMA 628)

C. HINGES AND PIVOTS:

1. Number of hinges or pivots per door: two hinges or pivots are intended to be provided for doors up to and including five feet in height, and an additional hinge for each two-and-one-half feet or fraction thereof, of the height of the door. Dutch doors are to be provided with four hinges.
2. All hinges on exterior doors and vestibule doors shall be full-mortise Continuous Geared Hinges. Geared Hinges shall be manufactured of extruded 6063-T6 aluminum alloy temper. Hinges shall consist of three interlocking extrusions in a precast assembly applied to the full height of the door and frame. All hinges shall be manufactured non-lambed. Door leaf and jamb leaf shall be geared together for the entire length of the hinge and joined by a cover channel. All Geared Hinges shall be heavy duty (HD).
3. Geared Hinges shall be Peniko, McKinney or Select as follows:

Peniko	CPM SLFHD Series
McKinney	MCK J3HD
Select	SL1HD

D. ELECTRICALLY POWERED DOOR OPERATOR:

1. Automatic door operators shall be an LCN electrically powered system with a normal rack and pinion/hydraulic door closer to provide closing.
 - A. Cast iron cylinders
 - B. Dual independent program memory
 - C. On-board diagnostics
 - D. On-board power supply
 - E. Plug and play sensors
 - F. "No detect" drive system
 - G. Electronic circuit protection
 - H. Multiple programming mode
2. Automatic door operator shall have the following features:
 3. Automatic door operator shall be ANSI cycle tested for 300,000 full load operating cycles with an integrated 10 million cycle heavy duty 4000 door closer.
 4. Automatic door operator shall have less than 15 lbs. force to stop door motion.
 5. In case of failure, automatic operator shall provide less than 15 lbs to release latch, less than 30 lbs to put door in motion and less than 15 lbs to fully open door system.
 6. Provide bolted mount burst 7910-956 / 7910-968-4 wired unit for exterior actuation and wall mount 7910-956 for interior actuation.
 7. Provide Header Mount Safety Sensor 7920-912 for each pair of doors. Provide also Sensor Remote Control 7920-959.
3. Automatic door operators shall be LCN 4630/4540 series.

E. EXIT DEVICES:

1. Shall be Von Duprin as follows:
 - A. Function Von Duprin
 - A. EL994TNL -OP
- NOTE: Provide electric power transfer EPT 2 at exterior pair of doors

F. CONTROLLED ACCESS SYSTEM:

1. Controlled access system shall be as manufactured by Compass Technologies, Inc. System SFT 501 with compass F105 standalone single work station access control.
2. Provide electronic access control to exterior pair of doors that will allow access into building as well as allow door operator operation during secure hours.
3. Access through main entrance will be accomplished by all of the following:
 1. Time auto lock/unlock system
 2. Proximity/PIN card reader
 3. Day Mode
 - A. Doors to be automatically locked and unlocked as designated by Owner
 - B. Latches retract-exterior door operator press switch enabled.
 - C. Exterior button initiates sequenced operation of exterior then interior pair
 4. Night Mode
 - A. Doors to be automatically locked as designated by Owner
 - B. Presentation of valid card retracts latches and enables exterior button for access control system for determined period of time
 5. Vestibule (shared button) operates both operators if individual is located in vestibule, button active at all times.
 6. Interior button initiates sequenced operation of interior, then exterior pair, button active at all times.
 7. Doors usable for manual operation at all times from push side and from pull side when latches retracted or key is used.
 8. Module by Compass Technologies - Intelligent Reader Module (128K Memory) includes power supply and transformer 10" x 12" x 4" enclosure, RS485 communication daughter board 47K and 15K resistor packs.
 9. System to allow for future expansion by simply adding Intelligent Reader Modules.
 10. Proximity/PIN readers by Compass Technologies MinProx RS645
 11. Programmable proximity cards by Compass Technologies Prox Card II RF. Provide 50 cards.

G. PUSH PLATES, DOOR PULLS, PUSH/PULL BARS:

1. Shall be as manufactured by Rockwood, Burns or Ives.
 - a. Door pulls shall be 1" x 10"
 - Type A

Rockwood	BF111
Borns	BF20C
Quality	BF163-10"
 - Type B

Rockwood	157
Borns	39C
Quality	521
 - Push/Pull Bars

Rockwood	BF1147 x T1000 Mounting
Borns	BF20C x 442 x Slot Mounting as Above
Ives	9103-0
 - Type A (Wide Side Doors)

Rockwood	BF1147 x T1000 Mounting
Borns	BF20C x 442 x Slot Mounting as Above
Ives	9103-0

H. KICK PLATES, ARMOR PLATES, MOP PLATES:

1. Kick plates shall be 6 in. high. Armor plates shall be 34 in. high. Mop plates shall be 4 in. high. All plates shall be 2 in. less the width of door. Plates shall be .050 thickness, bevel 4 edges, screws shall be oval head counter-sunk.

I. STOPS:

1. Shall be furnished at all doors. Whenever an opened door or any item of hardware thereon strikes a wall at 90 degrees, provide wall bumpers, unless otherwise indicated in hardware sets.
2. Where wall bumpers cannot be effectively used, a floor stop shall be furnished and installed.
3. Provide roller bumpers for each door where two doors intersect with each other in swinging.

Manufacturer Wall Bumpers Floor Stops Roller Bumpers

Rockwood	409	440-442	456
Ives	407 1/2	430B, 434B	470 Series
Glynn Johnson	WR 50XT	FB1, FB14	RB-J

4. Where overhead stops are listed they shall be the surface mounted type as follows:

Manufacturer	Series
Glynn Johnson	G450
Sargent	1540
ABH	1400

J. THRESHOLDS, WEATHERSTRIP, SEAL:

1. Thresholds shall be as detailed and furnished on all doors where shown on drawings. Thresholds shall be aluminum unless otherwise indicated. Set thresholds for exterior and acoustical doors to full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants".
 2. Weatherstripping shall be furnished on all exterior doors unless otherwise indicated.
- Product NGP
- | | |
|---------------|-------------|
| Threshold | as detailed |
| Brush Seal | A636A |
| Door Sweep | 200NA |
| Set Astragals | 600A |

K. SILENCERS:

1. Provide silencers on all metal and wood frames. Silencers shall be Ives 20-21, Glynn Johnson 54-65 or Rockwood 908/699.

PART 3 - EXECUTION

3.01. INSPECTION

1. It shall be the general contractor's responsibility to inspect all door openings and doors to determine that each door and door frame has been properly prepared for the required hardware. If errors in measurement or preparation are encountered, they are to be corrected by the responsible parties prior to the installation of hardware.

3.02. PREPARATION

1. All doors and frames, requiring field preparation for finish hardware, shall be carefully mounted, drilled for pilot holes, or tapped for machine screws for all items of finish hardware in accordance with the manufacturer's templates and instructions.

3.03. INSTALLATION/ADJUSTMENT/LOCATION

1. Installation for all materials shall be included by the finish hardware supplier.
2. Products to be supplied in this section shall be installed by qualified technicians that have a minimum of 5 years experience and shall have a low voltage electric license.
3. Exit devices shall be carefully installed so as to permit friction free operation of crossbar, knock bar, lever. Latching mechanism shall also operate freely without friction or binding.
4. Electrically powered door operators shall be installed in accordance with the manufacturer's instructions. Each operator shall be carefully installed, on each door, at the degree of opening indicated on the hardware schedule. Arm position shall be as shown on the instruction sheets and required by the finish hardware schedule.

The adjustments for all door operators shall be the installer responsibility and these adjustments shall be made at the time of installation of the door operator. The closing speed and the latching speed valves, shall be adjusted individually to provide a smooth, continuous closing action without slamming.

Access control system shall be installed in accordance with manufacturer's instructions and shall be installed by the supplier of this section. It is the responsibility of the installer to install all items in this section including wiring of all items from the power supplies. The electrical contractor is responsible for bringing line voltage to the power supply only.

Locations for finish hardware shall be in accordance with dimensions listed in the pamphlet "Recommended Locations for Builders' Hardware" published by the Door and Hardware Institute.

3.04. FIELD QUALITY CONTROL

1. Upon completion of the installation of the finish hardware, it shall be the responsibility of the finish hardware supplier to visit the project and to examine the hardware for each door on which he has provided hardware and to verify that all hardware is in proper working order. Should he find items of hardware not operating properly, he should make a report, in writing, to the general contractor, advising him of the problem and the measures required to correct the problem.

3.05. PROTECTION

1. All exposed portions of finish hardware shall be carefully protected, by use of cloth, adhesive backed paper or other materials, immediately after installation of the hardware item on the door. The finish shall remain protected until completion of the project. Prior to acceptance of the project by the Architect and owner, the general contractor shall remove the protective material exposing the finish hardware.

3.06. CLEANING

1. It shall be the responsibility of the general contractor to clean all items of finish hardware and to remove any remaining pieces of protective materials and labels.

3.07. INSTRUCTIONS AND TOOLS

1. It shall be the responsibility of the finish hardware supplier to provide installation and repair manuals and adjusting tools, wrenches, etc. for the following operating products:
 - a. Locksets (all types)
 - b. Exit Devices (all types)
 - c. Door Closers

3.08. HARDWARE SETS

1. Each Hardware Set listed below represents the complete hardware requirements for one opening (single door or pair of doors). Furnish the quantities required for each set for the work.
 - HW1 Exterior Pair of Doors
 - Each Pair Shall Have: Continuous Geared Hinges, Exit Device (Function A - Each Leaf), Electronic Power Transfer (Each Leaf), Electrically Powered Door Operator (Each Leaf), Power Supply, Ballast Mount Wireless Button, RF Receiver, Press Wall Switch, Door Pulls, Cylinders, Threshold, Weatherstrip, Door Bottom, Microwave Presence Sensor.
 - HW2 Vestibule Pair of Doors
 - Each Pair Shall Have: Continuous Geared Hinges, Electrically Powered Door Operator (Each Leaf), Press Wall Switch, Push/Pull Bars, Silencers, Microwave Presence Sensor.

END OF SECTION

SECTION 01300 ALTERATIONS, GENERAL

1. GENERAL

- 1.01 GENERAL CONDITIONS: The General Conditions, Supplementary General Conditions and all Sections of Division 1 shall apply to each and every contract and contractor, person or persons supplying materials, labor or entering into the work directly or indirectly.

1.02 DESCRIPTION

- A. The work covered by all sections of specifications shall conform to the conditions of this Section.
 - B. The phrase "exists existing" shall mean the following: Where Contract Documents call for exact matching, match existing work exactly in quality and appearance. When Contract Documents do not call for exact matching, match existing work as nearly as possible, using normally available materials and workmanship. If normally available materials and workmanship do not approximate existing work exactly, Architect. If in the Architect's judgment it is impossible to approximate existing work with normally available materials and workmanship, the Architect may issue suitable Change Orders. Changes imposing extra costs to the Contractor will not be ordered without the Contractor's approval. Existing structures and materials are indicated "existing".
 - C. In general, structures and materials which are not indicated existing are included in the work.

2. PRODUCTS

2.01 GENERAL

- A. Materials used to replace, patch or repair existing exposed work shall match or be compatible with existing adjacent finished surfaces.
- B. Materials used for such replacement, patching and repairing shall be as specified in the applicable section of this specification and/or as indicated on the drawings, or as approved by the Architect.

3. EXECUTION

- 3.01 TEMPORARY PARTITIONS: Construct necessary temporary dust proof partitions to isolate construction work from adjacent areas and remove partitions when work in area is completed.

3.02 CUTTING AND PATCHING

- A. Contractor shall do all demolition, cutting, altering, removing, replacing and patching as necessary for the performance of the contract. Unless otherwise provided by the drawings or specifications, no structural members shall be cut or altered without authorization of the Architect.
- B. Where any alteration or new work is indicated it will be required that the contractor perform all necessary cutting, patching, altering and rebuilding necessary to produce a complete, finished and operational element.
- C. Work remaining in place which is damaged or defaced by reason of work done under this contract shall be restored equal to its condition at the time of the award of the contract.
- D. Where existing work is removed, exposed surfaces shall be finished to match adjacent surfaces.
- E. All disturbed plaster areas and all holes, cracks and loose plaster shall be patched to provide a smooth uniform and sound wall, matching existing surfaces. Plaster around an opening in existing wall shall be cut back to firm bond and patched to match surrounding area. Materials for patching shall be similar to adjacent materials. Bonding agents shall be used as required to produce positive bond.
- F. Contractor shall provide all necessary shoring and temporary supports required for proper support of existing and new work during execution of the contract and shall remove same when support is no longer required.

- 3.03 COOPERATION: The Owner shall have the right, at any time during the construction of the structure, to enter the site for the purpose of installing any necessary work, or for any other purpose in connection with the installation of facilities, it being mutually understood and agreed, however, that the Contractors and the Owner will labor to mutual advantage where their several works in the above mentioned or unforeseen instances touch upon or interfere with each other.
- 3.04 SALVAGE: All materials which are removed will be deemed the property of the Contractor and shall be removed from the premises, unless indicated otherwise on the drawings or in these specifications.

Ambulance
Entrance
Renovation

Barron Center
Portland, Maine 04102

Architect

Winton Scott Architects

Portland, Maine

04101

Vestibule
Specifications

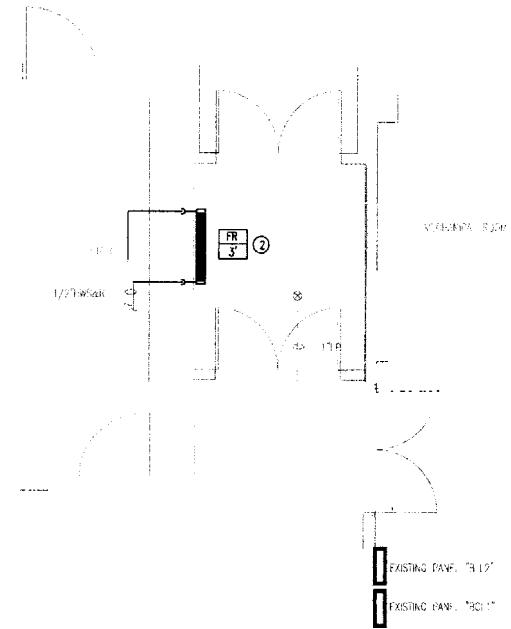
A 3

Scale: As Shown

December 19, 2004

DEMOLITION DRAWING NOTES:

- ③ REMOVE EXISTING FIN-TUBE RADIATION



AMBULANCE VESTIBULE DEMOLITION

GENERAL DEMOLITION NOTES:

1. BRANCH CIRCUITS NO LONGER IN USE BY DEMOLITION SHALL BE REMOVED BACK TO SOURCE.
2. POWER, LIGHTING AND SYSTEMS CONDUCTORS AND CONDUITS NO LONGER IN USE BY THIS WORK SHALL BE REMOVED IN THEIR ENTIRETY, BACK TO SOURCE PANELS OR EQUIPMENT. ELECTRICAL DEVICES, EQUIPMENT, CONDUCTORS AND CONDUIT SHALL NOT BE ABANDONED IN PLACE. ELECTRICAL BOXES CUT IN MASONRY WALLS WITH CONDUITS TO CEILING VOID, SHALL BE BLANKED OFF OR RE-USED IN NEW CONSTRUCTION.
3. CONTRACTOR SHALL INSURE MINIMUM DISRUPTION TO AREAS REMAINING USED/OCCUPIED DURING CONSTRUCTION.
4. MAINTAIN CIRCUITS TO POWER, LIGHTING, AND SYSTEMS DEVICES REMAINING IN OPERATION WITHIN THIS FACILITY.
5. EQUIPMENT, DEVICES, ETC., MARKED WITH "E" ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
6. EQUIPMENT, DEVICES, ETC., NOT IDENTIFIED IN A DEMOLITION AREA, DUE TO LACK OF ACCESS, INCOMPLETE PRELIMINARY INFORMATION OR RECORD DRAWINGS, SHALL BE HANDLED FOLLOWING PROCEDURES SIMILAR TO THOSE NOTED FOR IDENTIFIED EQUIPMENT.

- PRELIMINARY - NOT FOR CONSTRUCTION
- APPROVED FOR CONSTRUCTION
- SUPERSEDES ALL PREVIOUS ISSUES

BY RAM DATE 10/8/04

REFERENCE DRAWINGS

NO. NO.	TITLE	BY

REV.	ISSUED TO	ISSUED FOR
------	-----------	------------

THIS DRAWING IS THE PROPERTY OF NEILL AND GUNTER INCORPORATED AND IS TO BE USED ONLY FOR THE SPECIFIC PROJECT IDENTIFIED ON THE DRAWING. NO REVISIONS SHALL BE MADE WITHOUT THE EXPRESSED WRITTEN CONSENT OF NEILL AND GUNTER INCORPORATED.

NO.	DATE	BY	REVISIONS		CKD.
			DESIGNED	DRAWN	

CAD 25470ME002

Neill and Gunter

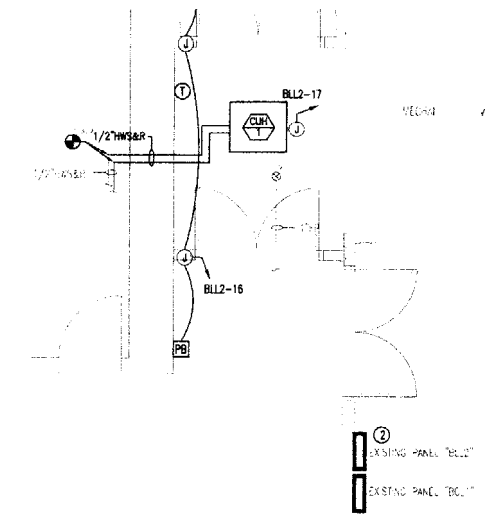
BARRON CENTER
BARRON CENTER
MECHANICAL AND ELECTRICAL
VESTIBULE PART PLAN
DEMOLITION

JOB NO. 25470 DWG. NO. DME-1

CIR. NO.	DESCRIPTION	VA	3ØR. SIZE	3ØR. SIZ.	VA	DESCRIPTION	CIR. NO.
1	EXISTING					EXISTING	2
3	EXISTING					EXISTING	4
5	EXISTING					EXISTING	6
7	EXISTING					EXISTING	8
9	EXISTING					EXISTING	10
11	EXISTING					EXISTING	12
13	EXISTING					EXISTING	14
15	SPACE						
17	CUH-1	180	20	20	180	MOTORIZED DOOR	16
19	EXISTING					EXISTING	18
21	EXISTING					EXISTING	20
23	EXISTING					EXISTING	22
25	EXISTING					EXISTING	24
27	EXISTING					EXISTING	26
29	EXISTING					EXISTING	28
31	EXISTING					EXISTING	30
33	EXISTING					EXISTING	32
35	EXISTING					EXISTING	34
37	EXISTING					EXISTING	36
39	EXISTING					EXISTING	38
41	EXISTING					EXISTING	40
	PANEL GROUP	PANEL 100				TOTAL VA PHASE A	
		PANEL 100Z				TOTAL VA PHASE B	
						TOTAL VA PHASE C	
						TOTAL LOAD AMPS	

DRAWING NOTES:

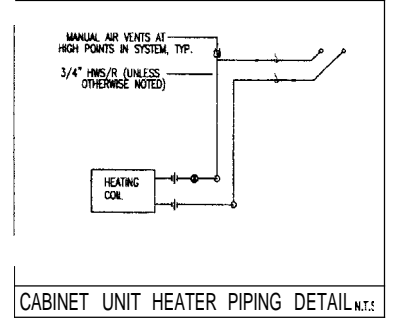
② ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL NEW TWO (2) 1P-20AMP CIRCUIT BREAKER IN PANEL FOR DOOR MOTOR AND CABINET UNIT HEATER (CUH-1).



AMBULANCE VESTIBULE
1/4" = 1'-0"

TAG	AREA SERVED	TYPE	MANUFACTURER & MODEL NO.	MBH	GPM	EWI 'F	LWI 'F	COIL ROWS	CFM	VOLTAGE	HP	MCA	NOTES
CUH-1	BASEMENT VEST.	HORIZONTAL RECESSED	TRANE, Q20	18.4	1.0	180	147	2	214	115	0.03	0.75	1,2

NOTES: 1. FREE AIR DISCHARGE. 2. BASED ON 60 DEG F INLET AIR TEMP.



CABINET UNIT HEATER PIPING DETAIL N.T.S.

PRELIMINARY - NOT FOR CONSTRUCTION
 APPROVED FOR CONSTRUCTION
 SUPERSEDES ALL PREVIOUS ISSUES
 BY RAM DATE 10/6/04

FIG. NO.	TITLE	BY

NO.	DATE	BY	REVISIONS	CKD.

Neill and Gunter

BARRON CENTER
 BARRON CENTER
 MECHANICAL AND ELECTRICAL
 VESTIBULE PART PLAN

25470 DWG. NO. ME-2