Renovate B3 Basement for Acupuncture / Chiropratic Services at the Canandaigua VA Medical Center

400 FORT HILL AVENUE
CANANDAIGUA, NY 14424

PROJECT DIRECTORY

OWNER:

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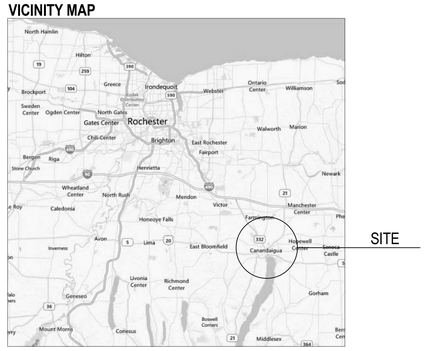
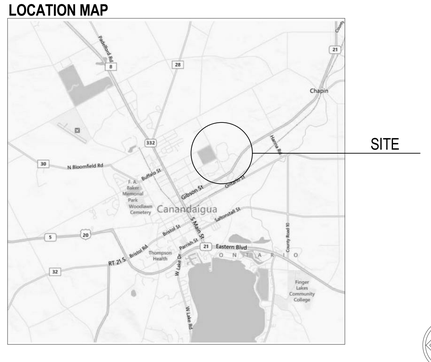
VICINITY MAP



LOCATION MAP



NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

SEAL

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AE Works Project Number: 13035

Approved: Director

Approved: Chief Operating Officer

Approved: Vice President, Facilities Management

Approved: Manager, Projects Section

Drawing Title: COVER SHEET

Approved: Site Manager

Approved: Project Manager

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date	Checked	Drawn
03 / 07 / 2014	RW	SB

Project Number: 528A5-13-532

Building Number: #3

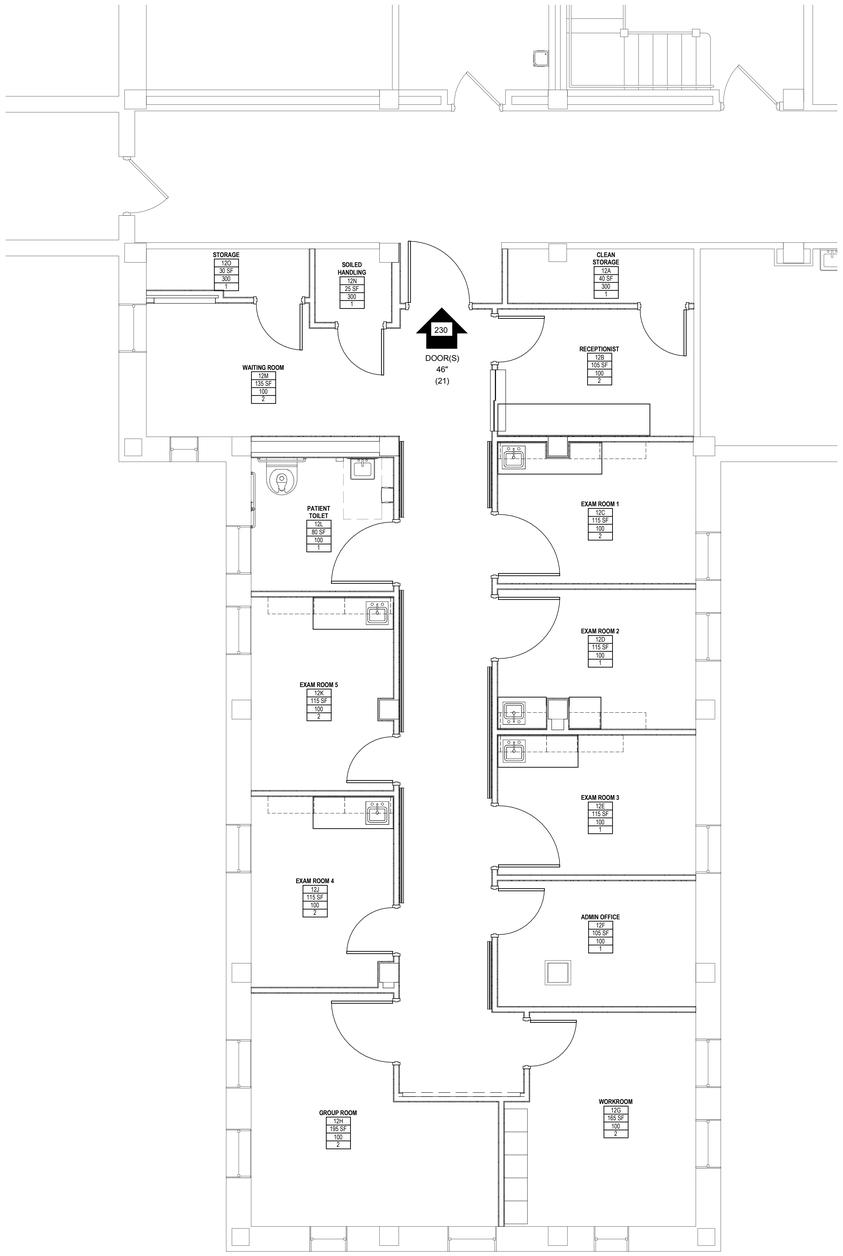
Drawing Number: G001

Dwg. 1 of 25

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 PARTIAL BASEMENT PLAN - LIFE SAFETY PLAN
1/4" = 1'-0"

LIFE SAFETY REVIEW

CANANDAIGUA VA MEDICAL CENTER - RENOVATE B3 BASEMENT FOR ACUPENCTURE / CHRIOPRACTIC SERVICES
VA PROJECT #528A5-13-532
AE WORKS #13035

LIFE SAFETY REVIEW BASED ON LATEST EDITIONS OF THE IBC AND NFPA 101

DESCRIPTION	RESULT	IBC SECTION/TABLE	NFPA SECTION/TITLE
OCCUPANCY			
AMBULATORY HEALTH CARE			CHAPTERS 20/21
BUSINESS GROUP B		SECTION 304	
CONSTRUCTION TYPE	TYPE II (000), IIB	TABLE 601	A.8.2.1.2
ACTUAL FLOOR AREA			
RENOVATION AREA - BASEMENT FLOOR	2,205 GSF		
CATEGORY OF REHABILITION WORK			
BASEMENT FLOOR	CHANGE OF USE		43.2.2.1.5/21.1.1.4.2
FIRE RESISTIVE REQUIREMENTS			
STRUCTURAL FRAME			
INCLUDING COLUMNS, GIRDERS & TRUSSES	0 HOUR	TABLE 601	A.8.2.1.2
BEARING WALLS			
EXTERIOR	0 HOUR	TABLE 601	A.8.2.1.2
INTERIOR	0 HOUR	TABLE 601	A.8.2.1.2
NONBEARING WALLS & PARTITIONS			
EXTERIOR	0 HOUR		
NONBEARING WALLS & PARITIONS			
INTERIOR	0 HOUR	TABLE 601	A.8.2.1.2
FLOOR CONSTRUCTION			
INCLUDING SUPPORTING BEAMS & JOISTS	0 HOUR	TABLE 601	A.8.2.1.2
ROOF CONSTRUCTION			
INCLUDING SUPPORTING BEAMS & JOISTS	0 HOUR	TABLE 601	A.8.2.1.2
SHAFT ENCLOSURES	N/A	SECTION 708.4	8.6.5
CORRIDORS (W/ SPRINKLER SYSTEM)	0 HOURS WITH SPRINKLER	TABLE 1018.1	18.3.6
SPACES OPEN TO CORRIDOR	UNLIMITED SF W/ AUTO SMOKE DETECTION		18.3.6.1
SPRINKLERS AND STANDPIPES			
AUTOMATIC SPRINKLERS			
ALL FLOORS	FULLY SPRINKLERED	SECTION 905.3	18.3.5.1
STANDPIPE SYSTEMS	CLASS 1		11.8.3.2
FIRE EXTINGUISHERS	ONLY REQUIRED IN SPECIAL-HAZARD AND COMMERICAL KITCHEN AREAS	SECTION 906	9.7.4
EXISTING REQUIREMENTS			
OCCUPANT LOAD - BUSINESS/HEALTHCARE		TABLE 1004.1.1	TABLE 7.3.1.2
ACCESSORY STORAGE AREAS	300 GROSS		
AMBULATORY HEALTH CARE	100 GROSS		
BUSINESS AREAS	100 GROSS		
EGRESS WIDTH			
CORRIDORS	44" CLEAR		18.2.3
EXISTING STAIRWAYS	N/A		
OTHER EGRESS COMPONENTS	.2 INCHES/OCCUPANT		TABLE 7.3.3.1
EGRESS DOORS	32 INCHES CLEAR	SECTION 1005.1	7.2.1.2.3.2
CORRIDOR WALLS	NON-FIRE RATED		21.3.6
EXISTING ACCESS TRAVEL DISTANCE	150 FT		21.2.6.2.1
COMMON PATH OF TRAVEL	50 FT		21.2.5

EGRESS SYMBOL LEGEND

150 — AREA (SF)
100 — EXIT GENERATOR (OCCS / SF)
15 — OCCUPANTS

(135) — (REQUIRED OCCUPANTS)
34" — EXIT WIDTH
DOOR(S) — EXIT COMPONENT
170 — EXITING OCCUPANTS
EXIT — EXIT PATH

NORTH

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AE Works Project Number: 13035

Drawing Title: LIFE SAFETY PLAN

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 | Checked: RW | Drawn: SB

Project Number: 528A5-13-532

Building Number: #3

Drawing Number: G002

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Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

ARCHITECTURAL ABBREVIATIONS

	&	AND
A	A	AIR (CLINICAL)
	AAP	ALARM ANNUNCIATOR PANEL
	AB	ANCHOR BOLT
	ACFL	ACCESS
	ACOUS	ACOUSTICAL
	ACT	ACOUSTICAL CEILING TILE
	AD	AREA DRAIN
	ADD	ADDENDUM
	ADDL	ADDITIONAL
	ADJ	ADJUST/ ABLE
	ADJ	ADJACENT
	ADMIN	ADMINISTRATION
	AFF	ABOVE FINISH FLOOR
	AHU	AIR HANDLING UNIT
	AL	ALIGN
	ALT	ALTERNATE
	ALUM	ALUMINUM
	AM	ANESTHESIA MONITOR
	AMEND	AMENDMENT
	ANES	ANESTHESIOLOGY
	ANUN	ANNUNCIATOR
	AP	ACCESS PANEL
	APC	ARCHITECTURAL PRECAST CONCRETE
	APROX	APPROXIMATE
	ARCH	ARCHITECTURAL
	AUTO	AUTOMATIC
	AWT	ACOUSTICAL WALL TREATMENT
B	BA	BACTERIOLOGY
	BACT	BUILDING ACCESSORY\
	BASS	BASSINET
	BBD	BULLETIN BOARD
	BC	BRICK COURSES
	BD	BOARD
	BFE	BOTTOM FOOTING ELEVATION
	BG	BUMPER GUARD
	BIT	BITUMINOUS
	BKT	BRACKET
	BLDG	BUILDING
	BLKG	BLOCKING
	BLT	BORROWED LIGHT
	BLW	BELOW
	BM	BEAM
	BO	BY OWNER
	BOF	BY OWNER FUTURE
	BOT	BOTTOM
	BPC	BED PAN CABINET
	BPG	BLOOD PRESSURE GAUGE
	BR	BRICK
	BRG	BEARING
	BRL	BRICK LEDGE
	BSMT	BASEMENT
	BTWN	BETWEEN
	BUR	BUILT-UP ROOFING
C	C	CHANNEL
	C DISP	CUP DISPENSER
	CAB	CABINET
	CANTL	CANTILEVER
	CAP	CAPACITY
	CAT	CATEGORY
	CBD	CHALKBOARD
	CCT	CUBICLE CURTAIN TRACK
	CCTV	CLOSED CIRCUIT TELEVISION
	CD	COLLING DOOR
	CD	COLLING GRILLE
	CG	CORNER GUARD
	CH	COAT HOOK
	CHEM	CHEMISTRY
	CJT	CONTROL JOINT
	CL	CENTER LINE
	CL	CLASS
	CLG	CEILING
	CLR	CLEAR
	CM	CONSTRUCTION MANAGER
	CMU	CONCRETE MASONRY UNIT
	CO	CLEAN OUT
	CO	CASED OPENING
	CO2	CARBON DIOXIDE
	COL	COLUMN
	COMB	COMBINATION/-ED
	CONC	CONCRETE
	CONF	CONFERENCE
	CONN	CONNECT/-ED /-ION
	CONST	CONSTRUCTION
	CONT	CONTINUE/OUS
	CONTR	CONTRACTOR
	COORD	COORDINATE
	CORR	CORRIDOR
	CPT	CARPET
	CT	CERAMIC TILE
	CT	CAT SCAN
	CTR	CENTER
	CTSK	COUNTERSUNK
	CUH	CABINET UNIT HEATER
	CV	CARDIOVASCULAR
	CW	CURTAIN WALL
	CW	COLD WATER
	CYL	CYLINDER
	CYSTO	CYSTOSCOPY
D	D	DEPTH OR DEEP
	DEMO	DEMOLITION
	DEPR	DEPRESSION
	DEPT	DEPARTMENT
	DET	DETAIL/S
	DF	DRINKING FOUNTAIN
	DIA	DIAMETER
	DIAG	DIAGONAL
	DICT	DICTATION
	DIFF	DIFFUSER
	DIM	DIMENSION
	DIR	DIRECTOR
	DISP	DISPENSER
	DIST	DISTRIBUTION
	DIV	DIVISION
	DIW	DEIONIZED WATER
	DJT	DUMMY JOINT
	DN	DOWN
	DP	DEMOUNTABLE PARTITION
	DP	DATA PROCESSING
	DR	DOOR
	DR	DOCTOR
	DS	DOWNSPOUT
	DSW	DISTILLED WATER
	DW	DUMBWAITER
	DWG	DRAWING
	DWLS	DOWELS
E	E	EXISTING
	EC	ELECTRIC CABINET
	ECG	ELECTROCARDIOGRAPHY
	EEG	ELECTROENCEPHALOGRAPHY
	EENT	EYE EAR NOSE & THROAT
	EF	EXHAUST FAN
	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
	EJ	EXPANSION JOINT
	EL	ELEVATION
	ELEC	ELECTRICAL
	ELEV	ELEVATOR
	EMERG	EMERGENCY
	EMG	ELECTROMAYOGRAPHY
	ENCL	ENCLOSURE
	ENT	EAR NOSE THROAT
	ENTR	ENTRANCE
	EO	ELECTRICAL OUTLET
	EP	EXPLOSION PROOF
	EQ	EQUAL
	EQUIP	EQUIPMENT
	ES	END SECTION
	ETR	EXISTING TO REMAIN
	EWC	ELECTRIC WATER COOLER
	EXA	EXHAUST AIR
	EXC	EXCAVATE/-ED/-ION
	EXH	EXHAUST HOOD
	EXIST	EXISTING
	EXP	EXPANSION
	EXT	EXTERIOR
F	FA	FIRE ALARM
	FB	FIRE BLANKET
	FBR	FACE BRICK
	FD	FLOOR DRAIN
	FDN	FOUNDATION
	FDV	FIRE DEPARTMENT VALVE
	FE	FIRE EXTINGUISHER
	FEC	FIRE EXTINGUISHER CABINET
	FGS	FOAM GASKET SEAL
	FH	FIRE HOSE
	FHC	FIRE HOSE CABINET
	FHP	FULL HEIGHT PARTITION
	FHV	FIRE HOSE VALVE
	FIN	FINISH
	FIXT	FIXTURE
	FL	FLOOR
	FL	FLOW LINE
	FLASH	FLASHING
	FLEX	FLEXIBLE
	FLG	FLANGE
	FLUOR	FLUORESCENT
	FLUORO	FLUOROSCOPY/FLUOROSCOPE
	FP	FIRE PROOFING
	FRMG	FRAMING
	FRS	FLUSHING RIM SINK
	FS	FULL SIZE
	FS	FLOOR SINK
	FSTOP	FIRESTOPPING
	FT	FOOT/FEET
	FTG	FOOTING
	FTR	FIN TUBE RADIATION
	FURR	FURRING
	FUT	FUTURE
	FV	FILM VIEWER
G	G	GAS
	GA	GAUGE
	GAL	GALLONS
	GALV	GALVANIZED
	GB	GRAB BAR
	GB	GRADE BEAM
	GC	GENERAL CONTRACTOR
	GEN	GENERAL
	GEN	GENERATOR
	GL	GLASS
	GMU	GLASS MASONRY UNIT
	GR	GRADE
	GYB	GYPSUM BOARD
	GYN	GYNECOLOGY
	GYPSHTG	GYPSUM SHEATHING
H	H	HIGH
	HB	HOSE BIB
	HD	HAND DRYER
	HDCP	HANDICAP
	HDR	HEADER
	HOW	HARDWARE
	HM	HOLLOW METAL
	HORIZ	HORIZONTAL
	HPT	HIGHPOINT
	HR	HANDRAIL
	HSKP	HOUSEKEEPING
	HT	HEIGHT
	HTR	HEATER
	HVAC	HEATING, VENTILATING, AIR CONDITIONING
	HW	HOT WATER
	HW	HEAD WALL
	HWD	HARDWOOD
I	IC	INTERCOM
	ICCU	INTENSIVE CARDIAC CARE UNIT
	ICU	INTENSIVE CARE UNIT
	LD	INSIDE DIAMETER
	IN	INCH
	INSUL	INSULATION
	INT	INTERIOR
	ISO	ISOLATION
	ISOLPP	ISOLATED POWER PANEL
	IV	INTRA VENOUS
J	JAN	JANITOR
	JB	JUNCTION BOX
	JST	JOIST
	JT	JOINT
K	KO	KNOCK OUT
L	L	L ANGLE
	L	LAVATORY
	LAV	LAVATORY
	LB	POUND
	LCD	LINEAR CEILING DIFFUSER
	LF	LINE FIGURED
	LIN	LINEAR
	LKR	LOCKER
	LLH	LONG LEG HORIZONTAL
	LLV	LONG LEG VERTICAL
	LMC	LINEAR METAL CEILING
	LOC	LOCATION OR LOCATE
	LPT	LOW POINT
	LS	LAWN SPRINKLING
	LT	LIGHT
	LTG	LIGHTING
	LVR	LOUVER
	LWC	LINEAR WOOD CEILING
M	M	MIDDLE
	MAN	MANUAL
	MATL	MATERIAL
	MAX	MAXIMUM
	MBD	MARKER BOARD
	MC	MEDICINE CABINET
	MCU	MODULAR COOLING UNIT
	MECH	MECHANICAL
	MED	MEDICAL/TION
	MEMB	MEMBRANE
	MET	METAL
	MEZZ	MEZZANINE
	MFR	MANUFACTURER
	MGA	MEDICAL GAS ALARM
	MH	MANHOLE
	MHC	MATERIAL HANDLING CONVEYOR
	MIN	MINIMUM
	MIR	MIRROR
	MISC	MISCELLANEOUS
	MD	MASONRY OPENING
	MONO	MONOLITHIC
	MPC	METAL PAN CEILING
	MPU	MULTI-PURPOSE UNIT
	MRI	MAGNETIC RESONANCE IMAGING
	MTD	MOUNTED
	MTL	METAL
	MTR	MOTOR
	MULL	MULLION
N	NA	NOT APPLICABLE
	NIC	NOT IN CONTRACT
	NO	NUMBER
	NOM	NOMINAL
	NRC	NOISE REDUCTION COEFFICIENT
	NT	NOTE
	NTS	NOT TO SCALE
O	O	OXYGEN
	OB	OBSTETRICS
	OC	ON CENTER
	OD	OUTSIDE DIAMETER
	OFF	OFFICE
	OH	OVERHEAD
	OP	OPERABLE PARTITION
	OP	OUTPATIENT
	OPER	OPERATOR
	OPNG	OPENING
	OPP	OPPOSITE
	OR	OPERATING ROOM
	ORD	OVERFLOW ROOF DRAIN
	ORTHO	ORTHOPEDICS
	OT	OCCUPATIONAL THERAPY
P	PAR	POST ANESTHESIA RECOVERY
	PART	PARTITION
	PB	PUSH BUTTON
	PCD	PAPER CUP DISPENSER
	PED	PEDESTAL
	PEDS	PEDIATRICS
	PHARM	PHARMACY
	PHYS	PHYSICAL
	PHYSICS	PHYSIOLOGICIAL
	PICU	PEDIATRIC INTENSIVE CARE UNIT
	PL	PLATE
	PL	PROPERTY LINE
	PLAM	PLASTIC LAMINATE
	PLBG	PLUMBING
	PLS	PLASTER
	PNL	PANEL
	PR	PAIR
	PRELIM	PRELIMINARY
	PREP	PREPARATION
	PRES	PLASTIC RESIN
	PRESS	PRESSURE
	PRIM	PRIMARY
	PROC	PROCEDURE
	PROJ	PROJECTION
	PRV	POWER ROOF VENTILATOR
	PSYCH	PSYCHOLOGY
	PT	PHYSICAL THERAPY
	PT	PAINT
	PTC	PNEUMATIC TUBE STATION
	PTR	PAPER TOWEL CABINET
	PTS	PRINTER
	PULMO	PULMONARY
	PVC	POLYVINYL CHLORIDE
Q	QT	QUARRY TILE
R	R	RADIUS
	RA	RETURN AIR
	RAD	RADIATION/OLOGY
	RB	RESILIENT BASE
	RD	ROOF DRAIN
	RE	RELOCATE EXISTING
	REC	RECESSED
	RECP	RECEPTION
	REF	REFERENCE
	REFR	REFRIGERATOR
	REG	REGISTER
	REHAB	REHABILITATION
	REINF	REINFORCE/-ED/-ING
	REM	REMOVE
	REQD	REQUIRED
	RET	RETAINING
	REV	REVERSE
	REV	REVISE
	RF	RESILIENT FLOOR
	RF	RADIO FREQUENCY
	RFI	REQUEST FOR INFORMATION
	RH	ROOF HATCH
	RO	ROUGH OPENING
	RWCS	RAIN WATER CONDUCTOR
S	SAN	SANITARY
	SD	SMOKE DAMPER
	SDISP	SOAP DISPENSER
	SECY	SECRETARY
	SF	SQUARE FOOT
	SH	SHOWER
	SHD	SHOWER HEAD
	SHTG	SHEATHING
	SIM	SIMILAR
	SL	SEALER
	SLV	SLEEVE
	SM	SURFACE MOUNTED
	SNC	SANITARY NAPKIN CABINET
	SND	SANITARY NAPKIN DISPOSER
	SP	STANDPIPE
	SPC	SPECIMEN PASS THROUGH CABINET
	SPEC	SPECIFICATIONS
	SR	SERVICE RECEPTOR
	SS	SERVICE SINK
	SSS	SURGEONS SCRUB SINK
	SST	STAINLESS STEEL
	ST	STONE TILE
	STA	STATION
	STC	SOUND TRANSMISSION
	STD	STANDARD
	STER	STERILIZER
	STL	STEEL
	STOR	STORAGE
	STRUCT	STRUCTURAL
	STS	STEEL STRUCTURE
	SUPV	SUPERVISOR
	SURG	SURGERY/ICAL
	SUSP	SUSPENDED
	SW	SWITCH
	SYM	SYMMETRICALTOP
T	T	TOP
	TAN	TANGENT
	TB	TACKBOARD
	TC	TIME CLOCK
	TCAB	TOWEL CABINET
	TDISP	TISSUE DISPENSER
	TEL	TELEPHONE
	TEMP	TEMPERATURE
	TER	TERRAZZO
	TG	TONGUE & GROOVE
	THER	THERAPIST/Y
	THRES	THRESHOLD
	TPH	TOILET PAPER HOLDER
	TRANSF	TRANSFORMER
	TS	TUBE SECTION
	TSC	TOILET SEAT COVER DISPENSER
	TV	TELEVISION
	TYP	TYPICAL
U	U	URINAL
	UC	UNDER COUNTER
	UFO	UNDER FLOOR DUCT
	UG	UNDERGROUND
	UH	UNIT HEATER
	UNFIN	UNFINISHED
	UNO	UNLESS NOTED OTHERWISE
	US	UTILITY SHELF
	UTIL	UTILITY
V	V	VACUUM
	VB	VACUUM BREAKER
	VC	VALVE CABINET
	VCO	VACUUM CLEANING OUTLET
	VENT	VENTILATION
	VERT	VERTICAL
	VIF	VERIFY IN FIELD
	VR	VAPOR RETARDER
	VTR	VENT THROUGH ROOF
W	W	WIDTHWIDE
	W	WIDE FLANGE
	W/	WITH
	W/0	WITHOUT
	WC	WATER CLOSET
	WC	WALL COVERING
	WD	WOOD
	WE	WASHER EXTRACTOR
	WDW	WINDOW
	WG	WALL GUARD
	WH	WALL HYDRANT
	WHCH	WHEELCHAIR
	WHTR	WATER HEATER
	WP	WATERPROOF
	WPS	WALL PROTECTION SYSTEM
	WR	WASTE RECEPTACLE
	WS	WEATHERSTRIP
	WS	WASHER STERILIZER
	WSCT	WAINSCOT
	WT	WINDOW TREATMENT
	WT	WEIGHT
	WW	WOOD WINDOW
	WWF	WELDED WIRE FABRIC
Z	ZVB	ZONE VALVE BOX
	ZBC	ZONE VALVE CABINET

SYMBOLS LEGEND :

DESCRIPTION	SYMBOL
DRAWING BLOCK TITLE MARK	ITEM NUMBER / LETTER; ITEM TITLE/ DESCRIPTION; 1; DRAWING BLOCK TITLE; 1/4" = 1'-0"; ITEM SCALE
WALL SECTION MARK	SECTION IDENTIFIER; 1; A310; SHEET NUMBER
BUILDING SECTION MARK	SECTION IDENTIFIER; 1; A302; SHEET NUMBER
DETAIL INDICATOR	DETAIL IDENTIFIER; 1; A5.01; SHEET NUMBER; LEADER; DETAIL BOUNDARY
EXTERIOR ELEVATION MARK	1; ELEVATION IDENTIFIER; A701; SHEET NUMBER
INTERIOR ELEVATION MARK (SINGLE VIEW)	1; ELEVATION IDENTIFIER; A701; SHEET NUMBER
INTERIOR ELEVATION MARK (MULTIPLE VIEWS)	4; ELEVATION IDENTIFIER; 3; A701; 1; 2; SHEET NUMBER
NORTH ARROW	N; PROJECT NORTH; TRUE NORTH
ROOM NAME INDICATOR	OFFICE; ROOM NAME; 102; ROOM NUMBER
COLUMN GRID IDENTIFICATION	1; GRID LINE IDENTIFICATION; A; COLUMN GRID LINE
DOOR IDENTIFICATION	A101A; DOOR NUMBER
WINDOW IDENTIFICATION	W1; WINDOW/ CURTAINWALL TYPE
WALL TYPE IDENTIFICATION	A; WALL TYPE INDICATOR; WALL
KEYNOTE IDENTIFICATION	3.01; KEYNOTE NUMBER
REVISION IDENTIFICATION	REVISION CLOUD; 1; REVISION NUMBER
DATUM POINT IDENTIFICATION	10'-0"; ELEVATION RELATIVE TO FIRST FLOOR TOP OF SLAB

MATERIALS LEGEND :

- ACOUSTIC TILE
- BATT INSULATION
- BRICK
- CONCRETE
- CONCRETE BLOCK
- EARTH - COMPACTED FILL
- GRAVEL, CRUSHED STONE
- GYPSUM BOARD, PLASTER
- PLYWOOD
- RIGID INSULATION
- SAND, GROUT, LIMESTONE
- STEEL
- TAPERED INSULATION
- WOOD, FINISH
- WOOD, FRAMING THROUGH MEMBER
- WOOD, FRAMING INTERRUPTED MEMBER

GENERAL PROJECT NOTES:

1. ALL CONSTRUCTION WORK SHALL CONFORM WITH THE APPLICABLE CODES AND ORDINANCES OF THE LOCAL JURISDICTION, THE COMMONWEALTH OF NEW YORK, AND THE CURRENT ADOPTED VERSION OF THE INTERNATIONAL BUILDING CODE FAMILY. THE CONTRACTOR SHALL POST NOTICES AND COMPLY WITH THE GOVERNING LAWS OF THE JURISDICTION.

2. INSTALLATIONS PERFORMED IN CONNECTION WITH THESE DRAWINGS SHALL BE IN STRICT COMPLIANCE TO THE MOST RECENT NFPA EDITION.

3. THE SITE WORK SHALL BE PROPERLY SUPERVISED BY THE CONTRACTOR'S JOB SITE SUPERINTENDENT. SUFFICIENT PERSONNEL SHALL BE EMPLOYED TO COMPLETE THE WORK WITHIN THE CONTRACTED TIME. PERSONNEL SHALL BE SKILLED IN THE TASK ASSIGNED.

4. THE CONTRACTOR SHALL, AT ALL TIMES, MAINTAIN ADEQUATE PROTECTION TO SAFEGUARD THE PUBLIC AND ALL PERSONS ENGAGED IN THE PERFORMANCE OF THE WORK.

5. THE DRAWINGS REFLECT CONDITIONS AS CAN BE INFERRED FROM VISIBLE CONDITIONS, OR FROM DRAWINGS AND INFORMATION FURNISHED BY THE OWNER, BUT CANNOT BE GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL GRADES, LINES, LEVELS AND DIMENSIONS INDICATED ON THE DRAWINGS AND SHALL REPORT ALL INCONSISTENCIES TO THE ARCHITECT PRIOR TO THE EXECUTION OF THE WORK. RECHECK ALL DIMENSIONS PRIOR TO ORDERING MANUFACTURED AND/OR FABRICATED ITEMS.

6. PLAN DIMENSIONS, UNLESS NOTED OTHERWISE, ARE TO THE FACE OF THE WALL FINISH OR CENTERLINE OF COLUMN.

7. ALL INDICATIONS OF MASONRY ARE SHOWN IN ACTUAL DIMENSIONS (NOT NOMINAL), UNLESS NOTED OTHERWISE.

8. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF PRODUCTS PURCHASED FOR THIS PRODUCT AND STORED ON THE PROJECT SITE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON PREFERRED LOCATIONS FOR STORED MATERIALS ON THE PROJECT SITE, IF ALLOWED AS PART OF THE REQUIREMENTS OF THIS PROJECT.

9. THE CONTRACTOR SHALL MAINTAIN AREAS UNDER THE CONTRACTOR'S CONTROL TO BE FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH. CONTAINERS FOR DEPOSIT OF DEBRIS AND RUBBISH SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE LOCATION OF CONTAINERS WITH THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT. REMOVE AND DISPOSE OF DEMOLITION MATERIAL OFF SITE IN ACCORDANCE WITH APPLICABLE CODES AND/OR SPECIFICATIONS.

10. EXTRANEOUS MATERIALS SHALL BE PERIODICALLY REMOVED, AND, AT THE CONCLUSION OF THE PROJECT. ALL UNUSED TOPSOIL SHALL BE STOCKPILED ON THE SITE FOR THE OWNER'S USE.

11. INDIVIDUAL CONTRACTOR'S SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL FIRESAFING/FIRESTOPPING MATERIALS AT ALL THROUGH-WALL AND THROUGH-CEILING PENETRATIONS AS REQUIRED FOR THE CONSTRUCTION WORK OF THEIR INDIVIDUAL CONTRACT AND TO MAINTAIN FIRE RATINGS OF FLOORS AND WALLS. MATERIALS AND INSTALLATION DETAILS SHALL CONFORM TO UNDERWRITER LABORATORIES LISTING FOR RATED ASSEMBLIES.

12. ALL WOOD FRAMING AND SHEATHING SHALL BE FIRE RETARDANT TREATED AS REQUIRED BY THE BUILDING CODE CLASSIFICATION OF 'NONCOMBUSTIBLE'.

13. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DEVIATIONS OR DISCREPANCIES FOUND & RECEIVE DIRECTION BEFORE PROCEEDING.

14. REMOVE AND DISPOSE OF DEMOLITION MATERIAL OFF SITE IN ACCORDANCE WITH THE APPLICABLE CODES AND/OR SPECIFICATIONS.

15. NO CONSTRUCTION SHALL START UNTIL ALL SUBMITTALS HAVE BEEN APPROVED BY THE VA.

16. DURING CONSTRUCTION THE CONTRACTOR WILL WORK ABOVE PATIENT OCCUPIED FLOORS. CONSTRUCTION RELATED ACTIVITIES ARE NOT TO ADVERSELY IMPACT THESE AREAS. CONSTRUCTION RELATED ACTIVITIES THAT MIGHT AFFECT THIS AREAS MUST BE COORDINATED WITH AND APPROVED BY THE VA PRIOR TO OCCURRENCE.

17. CONTRACTOR SHALL PROVIDE TEMPORARY DUST ENCLOSURES DURING ALL DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR TO COORDINATE LOCATIONS WITH CONTRACTING OFFICER. IF EXISTING WALLS ARE USED, PENETRATIONS MUST BE SEALED TO CREATE A DUST PROOF ENCLOSURE.

18. MODIFICATIONS TO THE EXISTING MEP SYSTEMS WILL IMPACT ADJACENT SPACES OUTSIDE THE GENERAL SCOPE OF WORK. ANY DISTURBANCE OF EXISTING CONDITIONS AND FINISHES MUST BE REPAIRED TO MATCH THE CONDITIONS PRIOR TO CONSTRUCTION IMPACTS.

19. THE FACILITY IS OPERATIONAL. CONTRACTOR SHALL MAKE PROVISIONS FOR OWNER AND PUBLIC USE OF THE BUILDING AROUND THE CONSTRUCTION AREA. DELIVERIES, STAGING, STORAGE OF MATERIALS AND OTHER CONSTRUCTION RELATED ACTIVITIES SHALL BE COORDINATED WITH THE CONTRACTING OFFICER SO AS TO NOT ADVERSELY AFFECT THE BUILDING OPERATIONS.

20. ASBESTOS AND LEAD ARE NOT ANTICIPATED TO EXIST IN THE WORK AREA. HOWEVER, IF ASBESTOS-CONTAINING MATERIAL IS DISCOVERED OR SUSPECTED, STOP WORK IN THE AREA IMMEDIATELY AND CONTACT THE CONTRACTING OFFICER.

21. ALL REVISIONS TO THE DRAWINGS MUST PROCEED THROUGH THE ARCHITECT. OWNER/CONTRACTOR REVISIONS MAY BE CONSIDERED INVALID.

22. ALL EXPOSED GYPSUM WALL BOARD EDGES TO HAVE METAL EDGE TRIM.

23. THE CONTRACTOR IS RESPONSIBLE FOR COMPARING AND COORDINATING ALL DRAWINGS FOR PROPER FIT AND ATTACHMENT OF ALL PARTS. DETAILS NOT SHOWN OR CALLED DESCRIBED IN THESE NOTES SHALL BE CONSTRUCTED TO SAME SIZE AND CHARACTER AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN, SPECIFIED, OR COMMONLY CONSTRUCTED IN THE INDUSTRY.

24. NO STRUCTURAL MEMBER SHALL BE OMITTED, NOTCHED, CUT, BLOCKED OUT, OR RELOCATED WITHOUT PRIOR APPROVAL BY THE ARCHITECT OR ENGINEER.

25. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ADJACENT PROPERTY AT ALL TIMES DURING CONSTRUCTION.

26. ALL TEMPORARY BRACING AND SHORING SHALL BE DESIGNED TO SUSTAIN ALL CONSTRUCTION LOADS, SOIL PRESSURE, LATERAL AND OTHER LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED.

27. CONTRACTOR SHALL COORDINATE LOCATIONS OF LIGHT FIXTURES, SPRINKLER HEADS, REGISTERS, ETC. WITH THE ELECTRICAL, HVAC, PLUMBING AND SPRINKLER SUB-CONTRACTORS.

28. ALL SPRINKLER HEADS, DIFFUSERS AND REGISTERS SHALL BE CENTERED WITH SUSPENDED ACOUSTICAL PANELS, UNLESS NOTED OTHERWISE ON DRAWINGS.

29. CONTRACTOR SHALL FILL ALL VOIDS IN MASONRY AND CONCRETE CREATED AROUND ALL PENETRATIONS WITH CONSTRUCTION TO MATCH SURROUNDING CONDITIONS.

30. CONTRACTOR IS RESPONSIBLE FOR PAINTING ALL EXPOSED STEEL, DECKING, PIPING, CONDUIT, SPRINKLER PIPING AND DUCTS WHICH ARE EXPOSED IN AREAS WITH NO CEILINGS AND SCHEDULED TO RECEIVE PAINT FINISH AS INDICATED ON THE FINISH SCHEDULE.

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

SEAL

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AE Works Project Number: 13035

Drawing Title
ARCHITECTURAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chiropractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 **Checked:** RW **Drawn:** SB

Project Number 528A5-13-532

Building Number #3

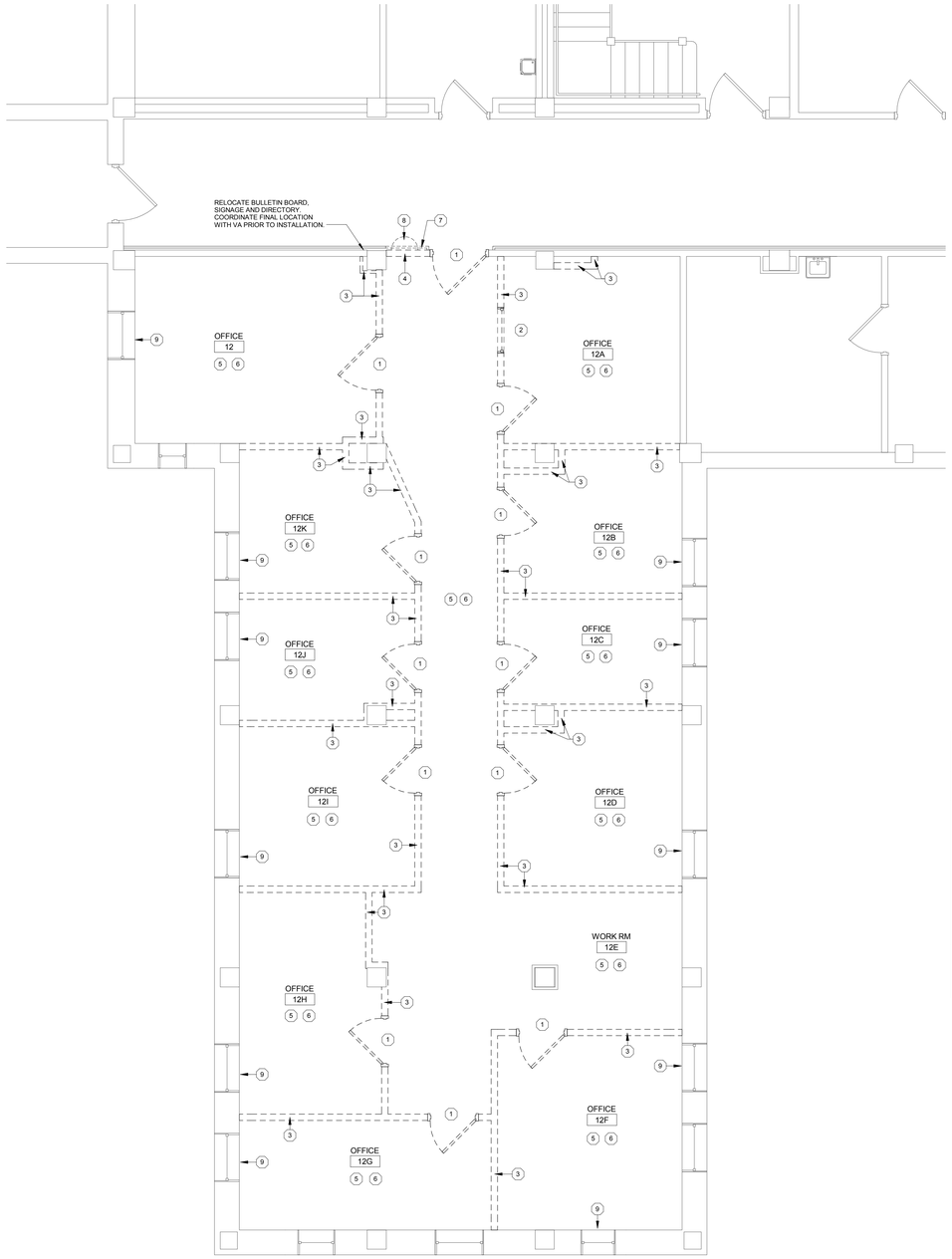
Drawing Number A001

Dwg. 3 **of** 25

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 PARTIAL BASEMENT PLAN - DEMOLITION
1/4" = 1'-0"

DEMOLITION KEYNOTES	
NUMBER	DESCRIPTION
1	REMOVE EXISTING DOOR, DOOR HARDWARE, DOOR FRAME, AND BLOCKING IN IT'S ENTIRETY.
2	REMOVE EXISTING TRANSACTION WINDOW, FRAME AND BLOCKING IN IT'S ENTIRETY.
3	CAREFULLY REMOVE AND DISPOSE OF EXISTING WALL STRUCTURE, WALL FINISH AND WALL BASE. WHERE WALL JOINED EXISTING WALLS TO REMAIN, PATCH AND REPAIR WALL AS REQUIRED TO RECEIVE NEW FINISH.
4	CAREFULLY REMOVE AND DISPOSE OF EXISTING WALL STRUCTURE, WALL FINISH, AND WALL BASE AS REQUIRED. COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION PLANS.
5	CAREFULLY REMOVE AND DISPOSE OF EXISTING CEILING SYSTEM, INSULATION, ALL ASSOCIATED HARDWARE, AND BLOCKING IN IT'S ENTIRETY.
6	CAREFULLY REMOVE AND DISPOSE OF EXISTING FLOOR FINISH AND WALL FINISH. PREPARE WALL / FLOOR AS NECESSARY TO RECEIVE NEW FINISH.
7	CAREFULLY REMOVE PORTION OF EXISTING HANDRAIL AND BUMPER RAIL AS REQUIRED BY NEW CONSTRUCTION.
8	RELOCATE SECURITY MIRROR AS REQUIRED. COORDINATE NEW LOCATION WITH VA PRIOR TO INSTALLATION.
9	CAREFULLY REMOVE EXISTING RADIATOR. COORDINATE REMOVAL WITH HVAC DOCUMENTS AND NEW WALL CONSTRUCTION WITH ARCHITECTURAL WALL INFILL DETAIL.

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions: | Date

CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title: PARTIAL BASEMENT PLAN - DEMOLITION

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chiropractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 | Checked: RW | Drawn: SB

Project Number: 528A5-13-532

Building Number: #3

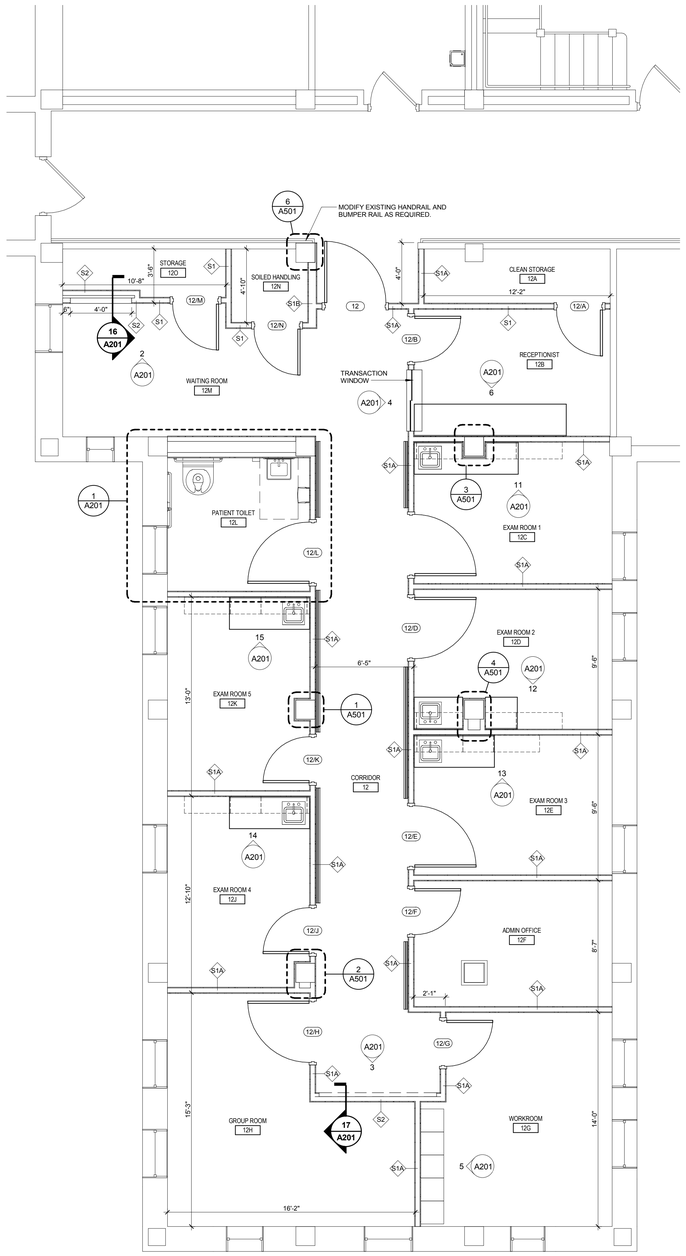
Drawing Number: AD100

Dwg. 4 of 25

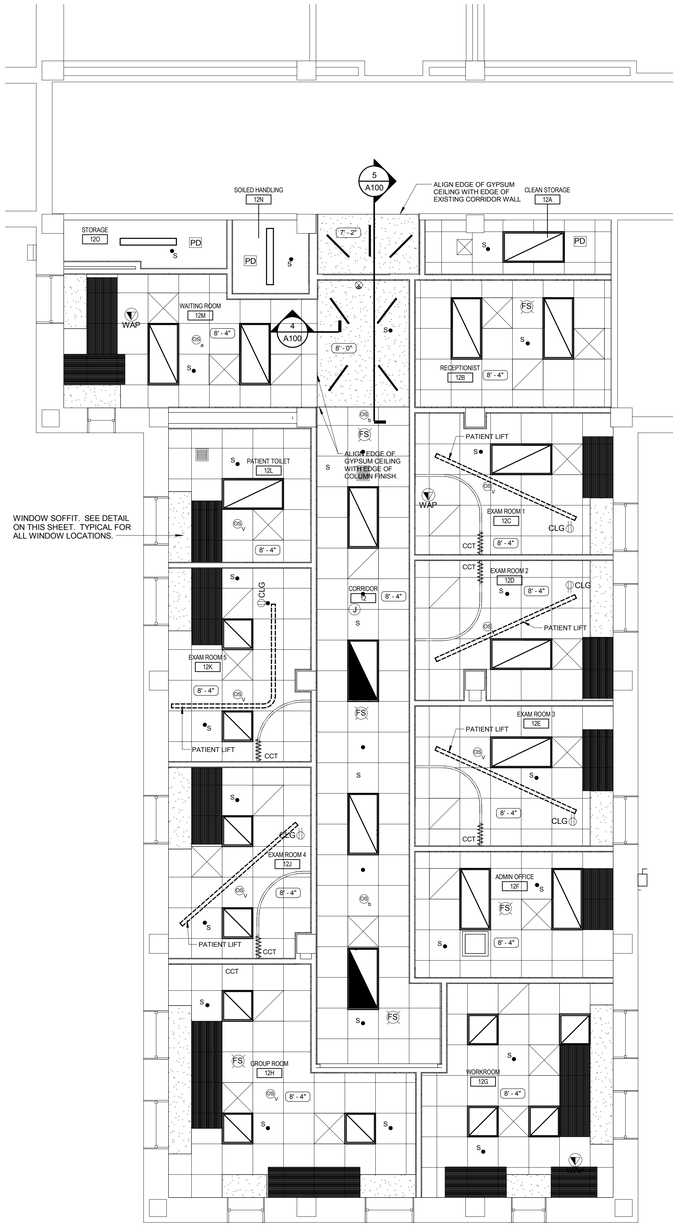
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 PARTIAL BASEMENT PLAN - NEW WORK
1/4" = 1'-0"

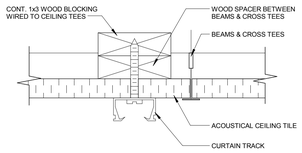


2 PARTIAL BASEMENT PLAN - REFLECTED CEILING
1/4" = 1'-0"

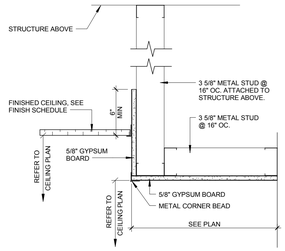
REFLECTED CEILING PLAN SYMBOL LEGEND	
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	2x4 LIGHT FIXTURE
	2x2 LIGHT FIXTURE
OS	CEILING MOUNTED OCCUPANCY SENSOR
WAP	CEILING MOUNTED WIRELESS ACCESS POINT
	RADIANT CEILING PANEL
S	SPRINKLER HEAD
FS	FIRE SPEAKER

REFLECTED CEILING PLAN SYMBOL LEGEND	
	2' X 2' LAY-IN ACOUSTICAL TILE CEILING SYSTEM. SEE ROOM FINISH SCHEDULE FOR SPECIFIC TYPE
	GYPSUM BOARD BULKHEAD/ SUSPENDED GYPSUM BOARD SYSTEM
X' - X"	CEILING/ BULKHEAD HEIGHT A.F.F.
CCT	CUBICLE CURTAIN TRACK

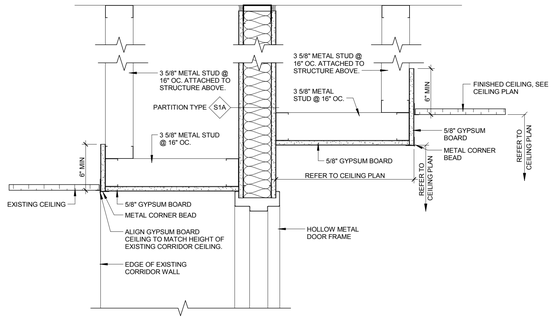
GENERAL NOTES:
1. SEE FIRE PROTECTION DRAWING SHEETS FOR SPRINKLER HEAD LAYOUT
2. REFLECTED CEILING PLANS SHOW CEILING MOUNTED ITEMS ONLY. ADDITIONAL WALL MOUNTED LIGHTING, HVAC ITEMS, EXIT SIGNS, ETC. ARE INDICATED ON INDIVIDUAL ELECTRICAL AND HVAC FLOOR PLAN SHEETS.



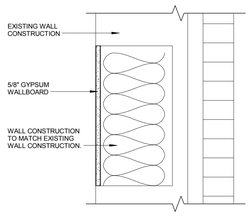
3 CUBICLE CURTAIN TRACK (CCT)
6" = 1'-0"



4 BULKHEAD DETAIL
1 1/2" = 1'-0"

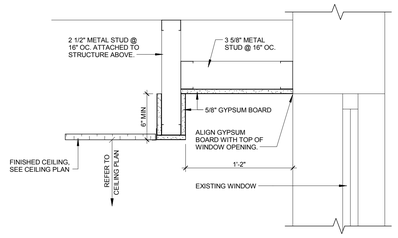


5 ENTRY CEILING
1 1/2" = 1'-0"

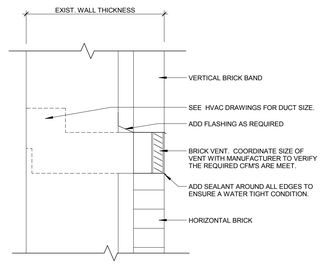


NOTE:
VOID WILL BE LEFT BY REMOVAL OF EXISTING RADIATOR. MATCH EXISTING WALL CONSTRUCTION.

6 WALL INFILL DETAIL
1 1/2" = 1'-0"

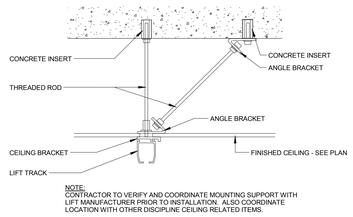


7 WINDOW SOFFIT DETAIL
1 1/2" = 1'-0"



NOTE:
CONTRACTOR TO COORDINATE PLACEMENT OF BRICK VENT IN EXTERIOR BRICK WALL. VENT NOT TO BE PLACED IN VERTICAL BRICK BAND.

8 BRICK VENT DETAIL
1 1/2" = 1'-0"



NOTE:
CONTRACTOR TO VERIFY AND COORDINATE MOUNTING SUPPORT WITH LIFT MANUFACTURER PRIOR TO INSTALLATION. ALSO COORDINATE LOCATION WITH OTHER DISCIPLINE CEILING RELATED ITEMS.

9 PATIENT LIFT SUPPORT DETAIL
3" = 1'-0"

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title
PARTIAL BASEMENT PLAN - NEW WORK & REFLECTED CEILING PLAN

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chiropractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date:	Checked:	Drawn:
03 / 07 / 2014	RW	SB

Project Number 528A5-13-532

Building Number #3

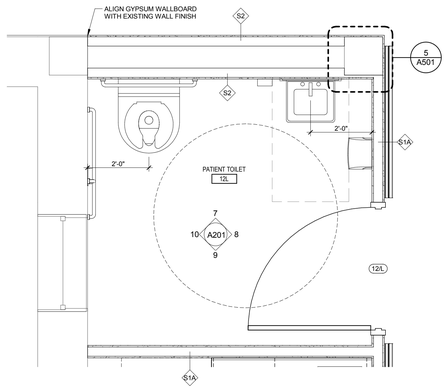
Drawing Number A100

Dwg. 5 **of** 25

Office of Construction and Facilities Management

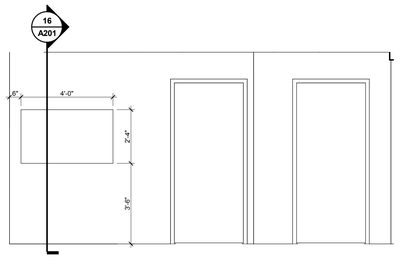
Department of Veterans Affairs

VA FORM 08-6231

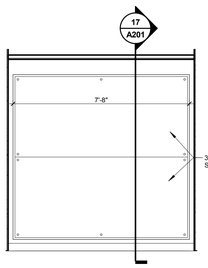


NOTE:
WITH EXCEPTION TO GRAB BARS, ALL TOILET ROOM ACCESSORIES ARE TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED. ALL ACCESSORIES ARE TO BE MOUNTED IN ACCORDANCE WITH THE LATEST ADA STANDARD GUIDELINES.

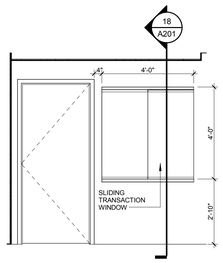
1 ENLARGED PLAN
1/2" = 1'-0"



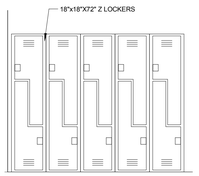
2 INTERIOR ELEVATION
3/8" = 1'-0"



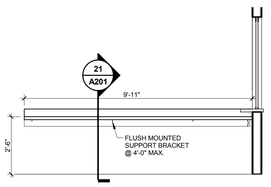
3 INTERIOR ELEVATION
3/8" = 1'-0"



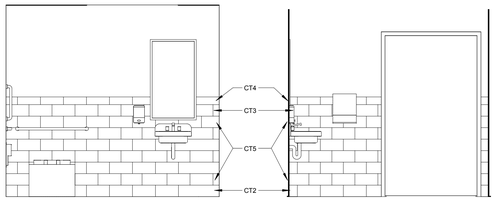
4 INTERIOR ELEVATION
3/8" = 1'-0"



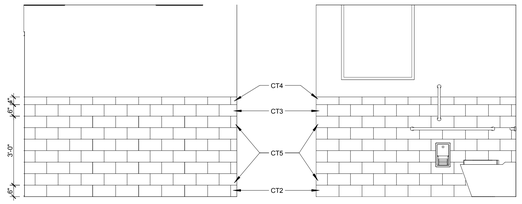
5 INTERIOR ELEVATION
3/8" = 1'-0"



6 INTERIOR ELEVATION
3/8" = 1'-0"



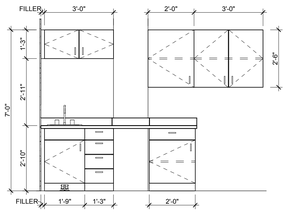
7 INTERIOR ELEVATION
3/8" = 1'-0"



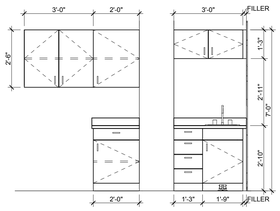
8 INTERIOR ELEVATION
3/8" = 1'-0"

9 INTERIOR ELEVATION
3/8" = 1'-0"

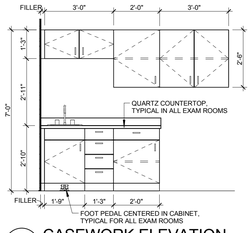
10 INTERIOR ELEVATION
3/8" = 1'-0"



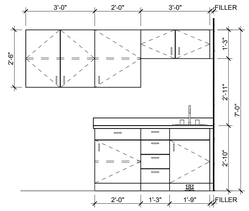
11 CASEWORK ELEVATION
3/8" = 1'-0"



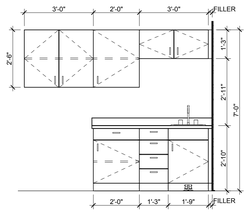
12 CASEWORK ELEVATION
3/8" = 1'-0"



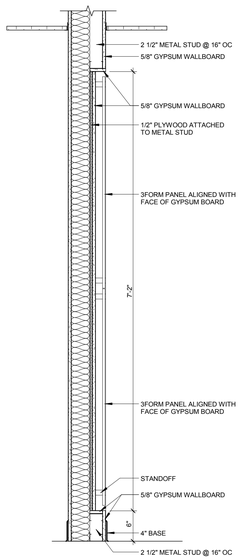
13 CASEWORK ELEVATION
3/8" = 1'-0"



14 CASEWORK ELEVATION
3/8" = 1'-0"

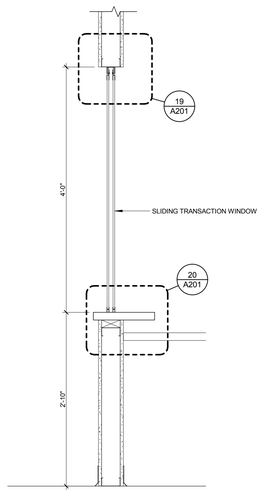


15 CASEWORK ELEVATION
3/8" = 1'-0"

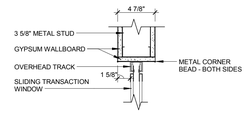


16 TELEVISION DETAIL
1" = 1'-0"

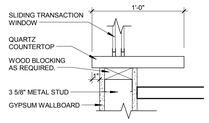
17 3FORM DETAIL
1" = 1'-0"



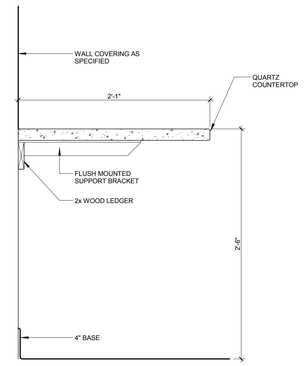
18 TRANSACTION WINDOW SECTION
1" = 1'-0"



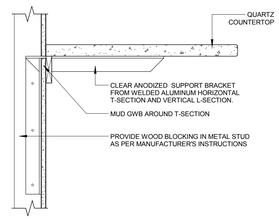
19 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



20 WINDOW SILL DETAIL
1 1/2" = 1'-0"



21 RECEPTION - WORK SURFACE
1 1/2" = 1'-0"



22 FLUSH MOUNTED SUPPORT BRACKET DETAIL
1 1/2" = 1'-0"

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

SEAL

REGISTERED ARCHITECT DIANE C. CLARROW 035565 STATE OF NEW YORK

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AE Works Project Number: 13035

Drawing Title
ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date:	Checked:	Drawn:
03 / 07 / 2014	RW	AM / SB

Project Number 528A5-13-532

Building Number #3

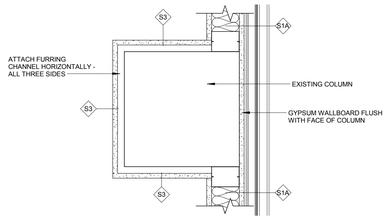
Drawing Number A201

Dwg. 6 of 25

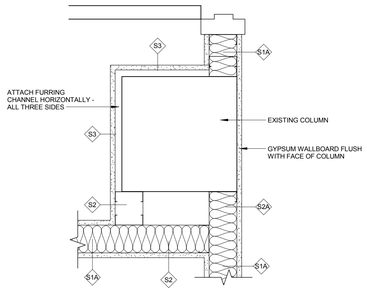
Office of Construction and Facilities Management

Department of Veterans Affairs

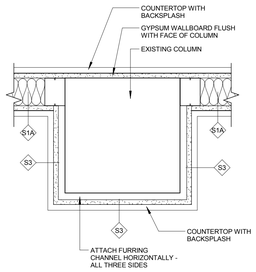
VA FORM 08-6231



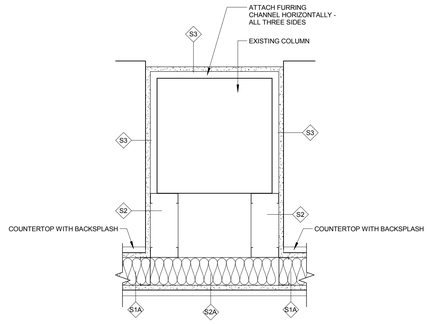
1 PLAN DETAIL
1 1/2" = 1'-0"



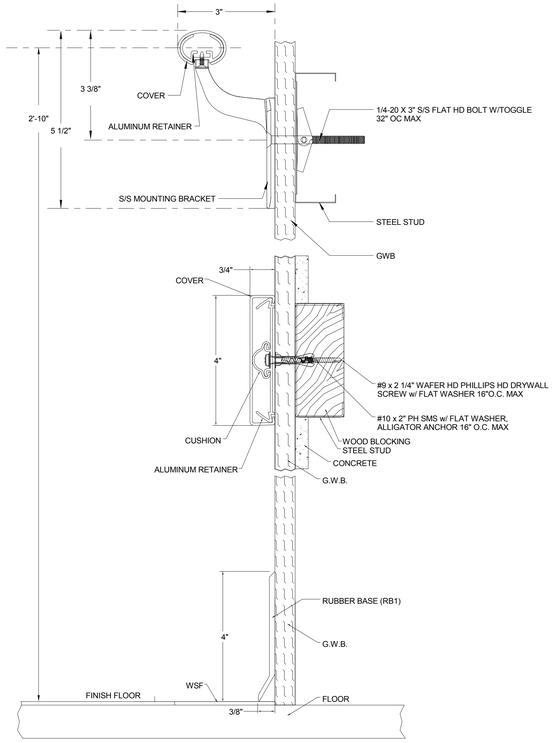
2 PLAN DETAIL
1 1/2" = 1'-0"



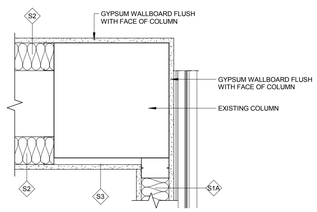
3 PLAN DETAIL
1 1/2" = 1'-0"



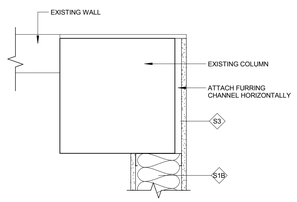
4 PLAN DETAIL
1 1/2" = 1'-0"



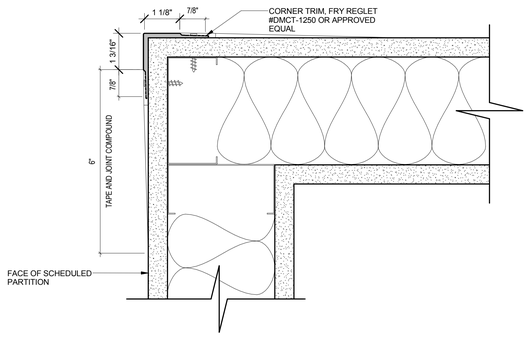
7 HAND RAIL AND BUMPER RAIL DETAIL
1/4" = 1'-0"



5 PLAN DETAIL
1 1/2" = 1'-0"



6 PLAN DETAIL
1 1/2" = 1'-0"



8 CORNERGUARD DETAIL
6" = 1'-0"

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

SEAL

REGISTERED ARCHITECT DIANE C. GLARRON 035565 STATE OF NEW YORK

ARCHITECTS/ENGINEERS:

A|E works

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AE Works Project Number: 13035

Drawing Title
PLAN AND INTERIOR DETAILS

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date:	Checked:	Drawn:
03 / 07 / 2014	RW	SB

Project Number 528A5-13-532

Building Number

Drawing Number A501

Dwg. 7 **of** 25

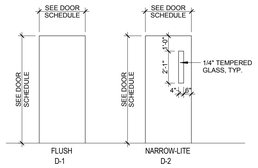
Office of Construction and Facilities Management

Department of Veterans Affairs

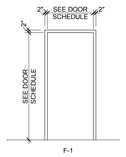
VA FORM 08-6231

DOOR SCHEDULE

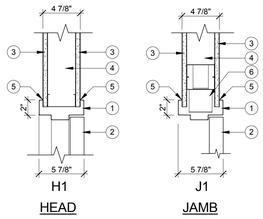
rl	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FIRE RATING	DOOR UNDERCUT	FRAME TYPE	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	HARDWARE SET	COMMENTS
12	4' - 0"	7' - 0"	1 3/4"	D2	WOOD	45 MIN "C" LABEL	1/4"	F1	HOLLOW METAL	H1	J1	1	
12/A	3' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	3/4"	F1	HOLLOW METAL	H1	J1	2	
12/B	3' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	3	
12/D	4' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	4	
12/E	4' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	4	
12/F	3' - 0"	7' - 0"	1 3/4"	D2	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	3	
12/G	3' - 0"	7' - 0"	1 3/4"	D2	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	5	
12/H	4' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	6	
12/J	3' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	4	
12/K	3' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	4	
12/L	4' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	8	
12/M	3' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	3/4"	F1	HOLLOW METAL	H1	J1	9	
12/N	3' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	3/4"	F1	HOLLOW METAL	H1	J1	7	
12/O	4' - 0"	7' - 0"	1 3/4"	D1	WOOD	-	1/4"	F1	HOLLOW METAL	H1	J1	4	



1 DOOR TYPES
1/4" = 1'-0"

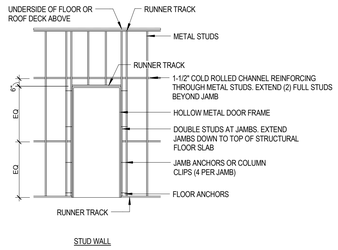


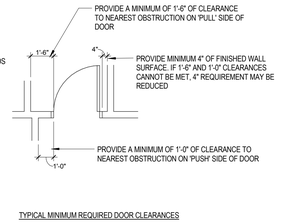
2 FRAME TYPES
1/4" = 1'-0"



4 DOOR FRAME DETAILS
1 1/2" = 1'-0"

DOOR KEYNOTES	
NUMBER	DESCRIPTION
1	HOLLOW METAL FRAME
2	DOOR, SEE DOOR SCHEDULE
3	GYPSUM WALL BOARD
4	METAL STUD - SEE PARTITION TYPES
5	SEALANT OVER TAPE BOND BREAKER
6	JAMB ANCHOR - 3 PER FRAME





3 DOOR INSTALLATION DETAIL
1/4" = 1'-0"

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

SEAL

ARCHITECTS/ENGINEERS:

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AE Works Project Number: 13035

Drawing Title: DOOR SCHEDULE & DETAILS

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 | Checked: RW | Drawn: SB

Project Number: 528A5-13-532

Building Number: #3

Drawing Number: A601

Dwg. 8 of 25

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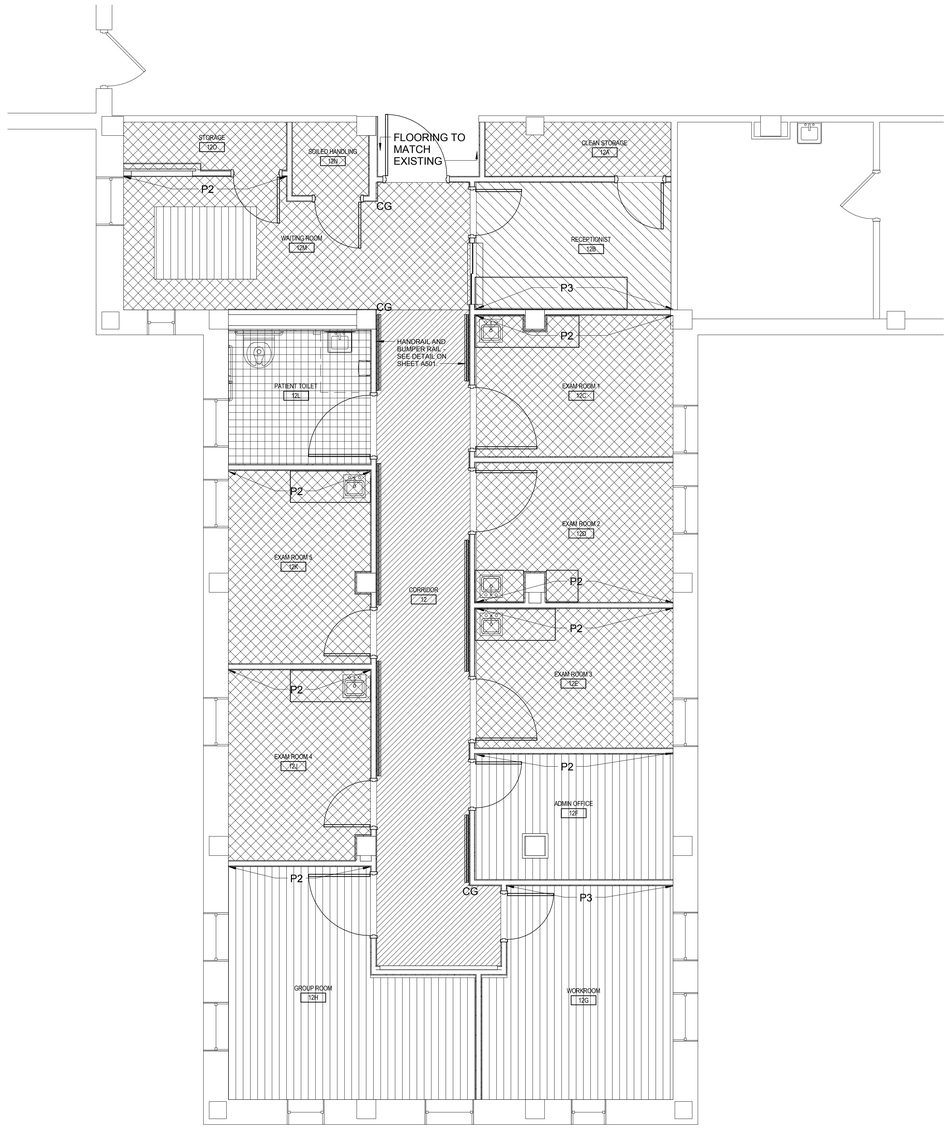
Department of Veterans Affairs

VA FORM 08-6231



1 PARTIAL BASEMENT PLAN - FINISH FLOOR PLAN
1/4" = 1'-0"

FINISH SCHEDULE

	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH NORTH	SOUTH	EAST	WEST	COMMENTS
12	CORRIDOR	SV3	RB	P1	P1	P1/3FORM	P1	
12A	CLEAN STORAGE	SV2	RB	P1	P1	P1	P1	
12B	RECEPTIONIST	CPT	RB	P1	P1	P3	P1	
12C	EXAM ROOM 1	SV2	RB	P1	P1	P1	P2	
12D	EXAM ROOM 2	SV2	RB	P1	P1	P2	P1	
12E	EXAM ROOM 3	SV2	RB	P1	P1	P1	P2	
12F	ADMIN OFFICE	SV1	RB	P1	P1	P1	P2	
12G	WORKROOM	SV1	RB	P1	P1	P1	P3	
12H	GROUP ROOM	SV1	RB	P1	P1	P1	P2	
12J	EXAM ROOM 4	SV2	RB	P1	P1	P1	P2	
12K	EXAM ROOM 5	SV2	RB	P1	P1	P1	P2	
12L	PATIENT TOILET	CT	CT	CT/P1	CT/P1	CT/P1	CT/P1	CT WAINSCOT 4'-0".
12M	WAITING ROOM	SV1&SV2	RB	P1	P1	P1	P2	
12N	SOILED HANDLING	SV2	RB	P1	P1	P1	P1	
12O	STORAGE	SV2	RB	P1	P1	P1	P1	

FINISHES LEGEND :

- SV1
- SV2
- SV3
- CPT
- CERAMIC TILE

INTERIOR FINISHES:

PAINT

P1- PAINT
MANUFACTURER: PRATT & LAMBERT
COLOR: 2275 CHALK GRAY

P2- PAINT
MANUFACTURER: PRATT & LAMBERT
COLOR: 2142 ANAMITE

P3- PAINT
MANUFACTURER: PRATT & LAMBERT
COLOR: 2014 BRANDYWINE

RUBBER BASE

RB1- RUBBER BASE
MANUFACTURER: ROPPE
COLOR: 194 BURNT UMBER 4"

ACT

ACT- ACOUSTIC CEILING TILE
MANUFACTURER: ARMSTRONG
STYLE: DUNE
COLOR: WHITE
TYPE: 2X2 TEGULAR

COUNTERTOPS & WINDOW SILLS

QTZ- QUARTZ
MANUFACTURER: CAMBRIA
COLOR: SHIREBROOK 1745

HANDRAILS & BUMBER GUARDS

AVN- ACROVYN
MANUFACTURER: CS ACROVYN
STYLE: CHAMELEON COLLECTION
COLOR: #704 BRAZILIAN NUT

CARPET

CPT1- CARPET
MANUFACTURER: J&J INVISION
STYLE: UP A TREE MODULAR 7989
COLOR: 523 CHERRY LAUREL

CERAMIC TILE

CT1- CERAMIC TILE
MANUFACTURER: CROSSVILLE
STYLE: COLOR BLOX TOO
COLOR: A1126 GREY MATTER
SIZE: 12X18 FLOOR TILE

CT2- CERAMIC TILE
MANUFACTURER: CROSSVILLE
STYLE: COLOR BLOX TOO
COLOR: A1126 GREY MATTER
SIZE: 6x12 COVE BASE

CT3- CERAMIC TILE
MANUFACTURER: CROSSVILLE
STYLE: COLOR BLOX TOO
COLOR:A1123 HI HO SILVER
SIZE: 6X12

CT4- CERAMIC TILE
MANUFACTURER: CROSSVILLE
STYLE: COLOR BLOX TOO
COLOR:A1123 HI HO SILVER
SIZE: 4X12 BULLNOSE

CT5- CERAMIC TILE
MANUFACTURER: CROSSVILLE
STYLE: COLOR BLOX TOO
COLOR: A1176 TABBY CAT
SIZE: 6X12

SHEET VINYL

SV1- SHEET VINYL
MANUFACTURER: ITEC
STYLE: SHADES OF SYNCHRONICITY
COLOR: REIMS 548
SIZE: WIDTH - 13'2" & 6'7"

SV2- SHEET VINYL
MANUFACTURER: ITEC
STYLE: SHADES OF SYNCHRONICITY
COLOR: CAMELIA 596
SIZE: WIDTH - 13'2" & 6'7"

SV3- SHEET VINYL
MANUFACTURER: ITEC
STYLE: SHADES OF SYNCHRONICITY
COLOR: SCARLET 598
SIZE: WIDTH - 13'2" & 6'7"

CASEWORK

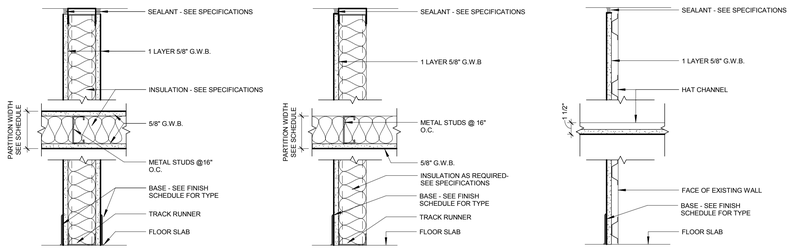
LAM- LAMINATE
MANUFACTURER: PIONITE
COLOR: CARAMEL CHENE

CUBICLE CURTAINS

CC- CUBCILE CURTAIN
MANUFACTURER: DESIGNTEX
STYLE: CONTINUUM 8034
COLOR: CAFE AU LAIT 8034-101

CORNER GUARDS

CG- CORNER GUARD
MANUFACTURER: FRY REGLET
STYLE: #DMCT-1250
COLOR: PAINT TO MATCH
ADJACENT WALL



	PARTITION WIDTH	STUD	INSULATION	UL #
S1	4 7/8"	3 5/8"	N/A	
S1A	4 7/8"	3 5/8"	3 1/2"	
S1B	7 1/4"	6"	5 1/2"	

	PARTITION WIDTH	STUD	INSULATION	UL #
S2	4 1/4"	3 5/8"	N/A	
S2A	4 1/4"	3 5/8"	3 1/2"	

	PARTITION WIDTH	STUD	INSULATION	UL #
S3	2 1/8"	1 1/2"	N/A	

2 PARTITION TYPES
1 1/2" = 1'-0"

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions: | Date

CONSULTANTS:

SEAL

REGISTERED ARCHITECT DIANE C. GLARROW 035565 STATE OF NEW YORK

ARCHITECTS/ENGINEERS:

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AE Works Project Number: 13035

Drawing Title: PARTIAL BASEMENT PLAN - FINISH FLOOR PLAN

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 | Checked: RW | Drawn: AM

Project Number: 528A5-13-532

Building Number:

Drawing Number: A701

Dwg. 9 of 25

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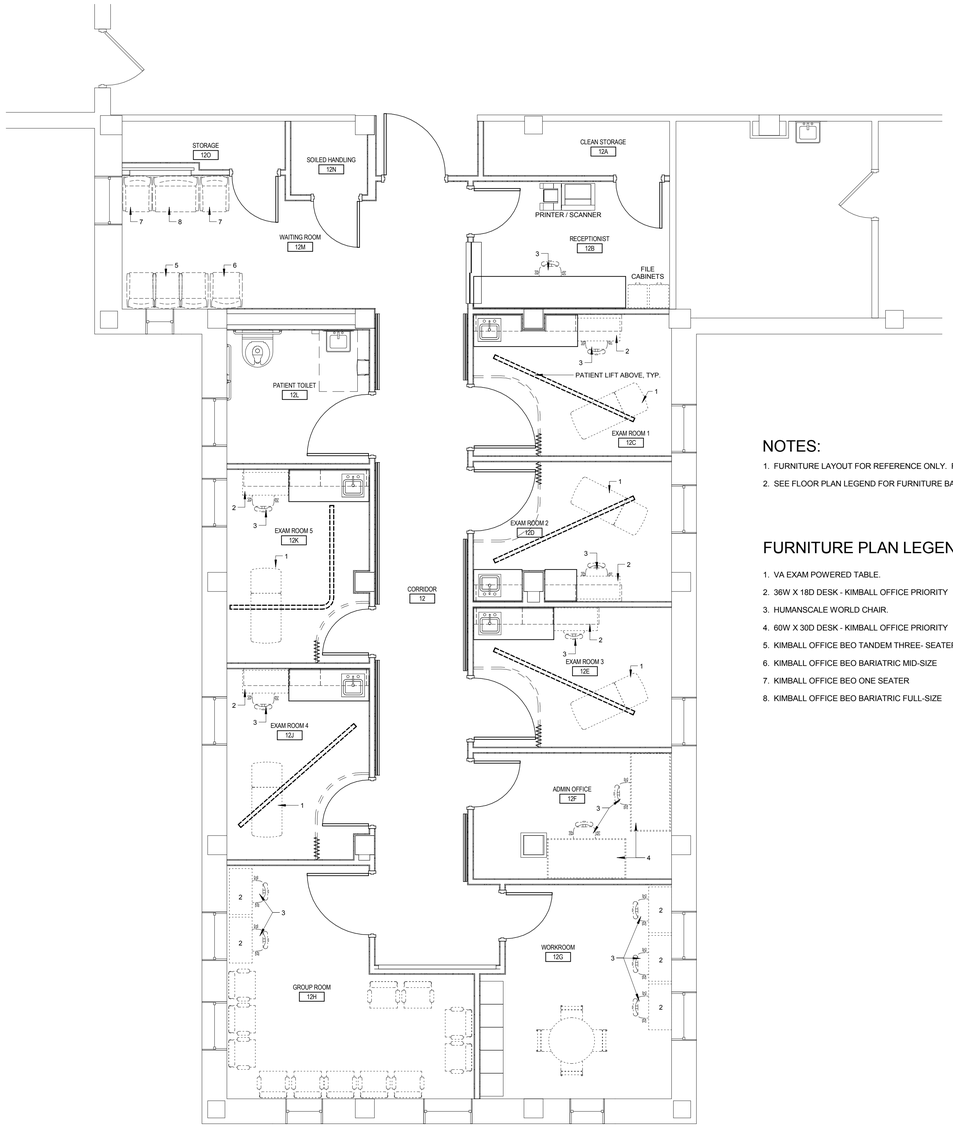
Department of Veterans Affairs

VA FORM 08-6231



1 PARTIAL BASEMENT PLAN - FURNITURE AND EQUIPMENT PLAN

1/4" = 1'-0"

PLAN IS SHOWN FOR REFERENCE ONLY

NOTES:

1. FURNITURE LAYOUT FOR REFERENCE ONLY. FURNITURE SHOWN IN PLAN IS NOT IN SCOPE OF WORK.
2. SEE FLOOR PLAN LEGEND FOR FURNITURE BASIS OF DESIGN.

FURNITURE PLAN LEGEND:

1. VA EXAM POWERED TABLE.
2. 36W X 18D DESK - KIMBALL OFFICE PRIORITY
3. HUMANSCALE WORLD CHAIR.
4. 60W X 30D DESK - KIMBALL OFFICE PRIORITY
5. KIMBALL OFFICE BEO TANDEM THREE- SEATER
6. KIMBALL OFFICE BEO BARIATRIC MID-SIZE
7. KIMBALL OFFICE BEO ONE SEATER
8. KIMBALL OFFICE BEO BARIATRIC FULL-SIZE

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions: | Date

CONSULTANTS:

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REGISTERED ARCHITECT DIANE C. CLARROW 035565 STATE OF NEW YORK

ARCHITECTS/ENGINEERS:

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AE Works Project Number: 13035

Drawing Title: PARTIAL BASEMENT PLAN - FURNITURE AND EQUIPMENT PLAN

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 | Checked: RW | Drawn: AM

Project Number: 528A5-13-532

Building Number:

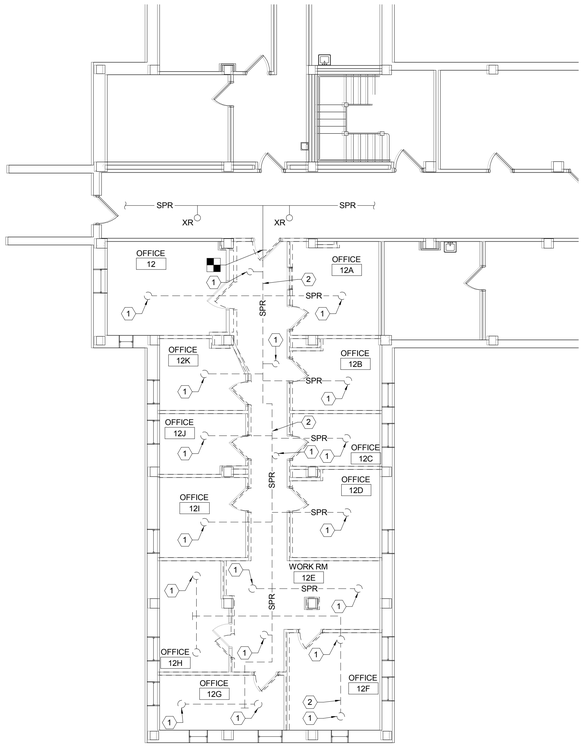
Drawing Number: A702

Dwg. 10 of 25

Office of Construction and Facilities Management

Department of Veterans Affairs

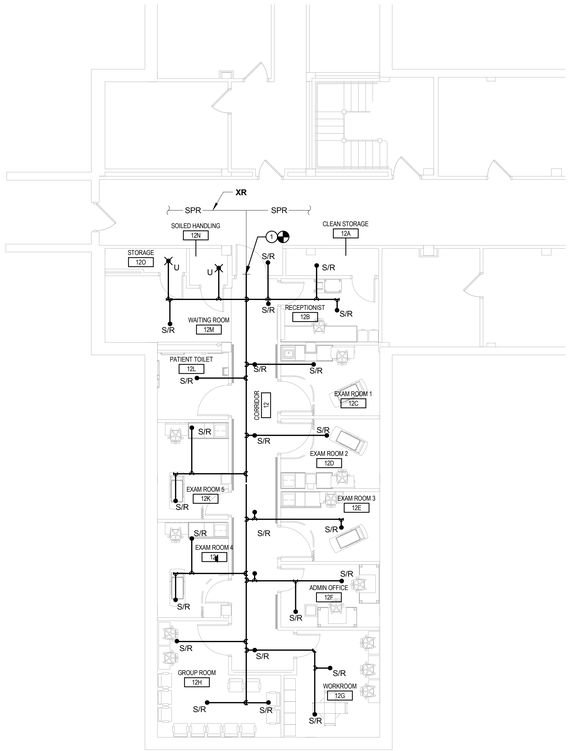
VA FORM 08-6231



FIRE PROTECTION DEMOLITION KEY NOTES:

1. REMOVE EXISTING SPRINKLER HEAD.
2. REMOVE EXISTING SPRINKLER BRANCH PIPING.
3. REMOVE EXISTING SPRINKLER PIPING TO THIS LOCATION.

1 BASEMENT LEVEL PLAN - FIRE PROTECTION - DEMOLITION
1/8" = 1'-0"



FIRE PROTECTION NOTES:

1. CONNNECT NEW SPRINKLER BRANCH PIPING TO EXISTING SPRINKLER BRANCH PIPING IN THIS LOCATION.

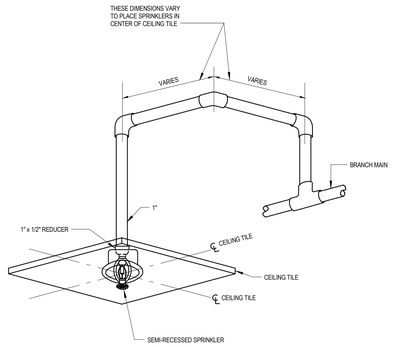
2 BASEMENT LEVEL PLAN - FIRE PROTECTION - NEW WORK
1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE.
2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS PRIOR TO THE FABRICATION OR INSTALLATION OF ANY PIPING.
3. THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR MUST FIELD VERIFY ACTUAL CONDITIONS AT THE SITE PRIOR TO PROCEEDING WITH THE WORK.
4. ALL EXISTING SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS.
5. ALL NEW PIPING SHALL BE INSTALLED IN SUCH A WAY THAT IT DOES NOT HAMPER ACCESS TO NEW OR EXISTING VALVES, ACCESS DOORS OR EQUIPMENT.
6. SPRINKLER PIPING SHALL BE HYDRAULICALLY DESIGNED BY THE SPRINKLER CONTRACTOR AND SHALL BE APPROVED BY ALL AUTHORTIES HAVING JURISDICTION. VELOCITIES OF WATER IN HYDRAULICALLY DESIGNED SPRINKLER PIPING SHALL NOT EXCEED TWENTY FEET PER SECOND.
7. ALL SPRINKLER HEADS INSTALLED IN LAY-IN CEILINGS SHALL HAVE THE HEADS LOCATED IN THE CENTER OF TILES. IF FOR ANY REASON HEADS CANNOT BE LOCATED IN THE CENTER OF TILES, THEN THE ARCHITECT/ENGINEER SHALL BE CONTACTED FOR NEW LOCATIONS BEFORE INSTALLING ANY HEAD OR PIPING.
8. CONTRACTOR SHALL INCLUDE IN HIS BID A WATER FLOW TEST/FIRE PUMP TEST. THE RESULTS OF WHICH SHALL BE USED TO PERFORM HYDRAULIC CALCULATIONS.
9. ENTIRE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 LATEST EDITION.
10. ALL WORK SHALL BE STRICTLY COORDINATED AMONG ALL INDIVIDUAL CONTRACTORS BEFORE ANY WORK IS PERFORMED.
11. DO NOT ROUTE PIPING THROUGH ELEVATOR SHAFT(S), ELEVATOR EQUIPMENT ROOM(S) & ELECTRICAL ROOMS, PIPING TO TERMINATE AT SPRINKLER HEAD.
12. PIPES 2-1/2" & LARGER TO BE SCHEDULE 10 STEEL PIPE WITH GROOVED END PREP.
13. PIPES 2" & SMALLER TO SCHEDULE 40 STEEL PIPE WITH THREADED END PREP OR AS NEEDED.
14. PIPES TO BE SIZED PER HYDRAULIC CALCULATIONS.
15. VERIFY ALL CEILING HEIGHTS AT SITE PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CEILINGS AND CEILING TYPES.
16. IN ROOMS WHICH ARE INDICATED AS BEING MECHANICAL AND ELECTRICAL ROOMS, THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF HIS PIPING AND SPRINKLER HEADS TO AVOID INSTALLATION OVER ELECTRICAL PANELS OR EQUIPMENT. PROVIDE ADDITIONAL SPRINKLER HEADS AS NECESSARY, AT NO ADDITIONAL COST TO THE OWNER. REFER TO HVAC AND ELECTRICAL DRAWINGS.
17. DESIGN DENSITIES: A. LIGHT HAZARD: .10/1500 ALL AREAS.
18. FIRE PROTECTION HYDRAULIC CALCULATIONS FOR AUTOMATIC SPRINKLER SYSTEMS SHALL INCORPORATE A MINIMUM 10 PSI SAFETY FACTOR.
19. PRESSURE TEST OF THE AUTOMATIC SPRINKLER SYSTEM SHALL BE WITNESSED BY THE FIRE DEPARTMENT UNLESS SPECIFICALLY WAIVED. TWO (2) WEEKS WRITTEN ADVANCE NOTICE OF TEST SHALL BE GIVEN.
20. FIRE PROTECTION CONTRACTOR SHALL COORDINATE HIS WORK WITH MECHANICAL, ELECTRICAL AND ALL OTHER DISCIPLINES TO AVOID INTERFERENCES PRIOR TO FABRICATION OF ANY PIPE. INTERFERENCES SHALL INCLUDE ROOF OPENINGS, BUS DUCTS, GANGED CONDUIT, DUCT, RUNS, ETC.
21. ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS SHALL BE SLEEVED AND SEALED TO MAKE WATERTIGHT AND MAINTAIN FIRE RATING.
22. ALL VALVE SUPERVISORY SWITCHES AND WATER FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
23. FIRE PROTECTION CONTRACTOR SHALL BE CERTIFIED BY STATE OF NEW YORK FOR SPRINKLER SYSTEM INSTALLATION.

SPRINKLER HEAD LEGEND

SYMBOL	MANUFACTURER OR APPROVED EQUAL	TYPE	MODEL	ORIFICE	TEMP. RATING (°F)
U	VIKING	UPRIGHT	MICROFAST MODEL M	1/2"	155°
S/R	VIKING	SEMI-RECESSED	HORIZON	1/2"	155°



3 TYPICAL SEMI-RECESSED SPRINKLER DETAIL
1" = 1'-0"

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title
FIRE PROTECTION FLOOR PLANS, SYMBOLS, NOTES & DETAILS

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 **Checked:** MEW **Drawn:** MEW

Project Number 528A5-13-532

Building Number #3

Drawing Number F101

Dwg. 11 **of** 25

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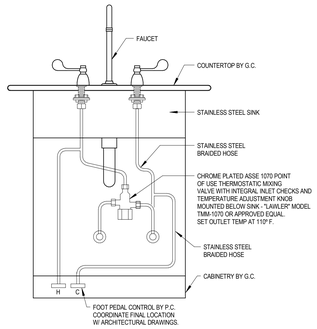
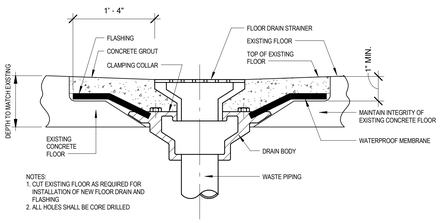
Department of Veterans Affairs

VA FORM 08-6231



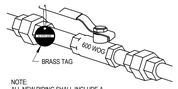
1 EXAMROOM SINK DETAIL

1" = 1'-0"



2 FLOOR DRAIN IN EXISTING FLOOR DETAIL

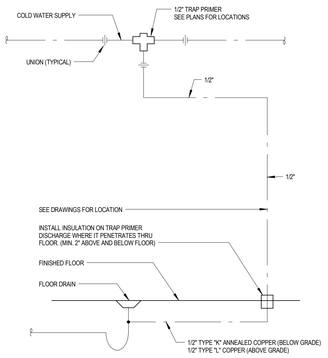
1" = 1'-0"



NOTE:
ALL NEW PIPING SHALL INCLUDE A
19 GAGE 1-1/2" DIA. BRASS TAG
ON BRASS CHAIN OR BRASS "S" HOOK.
TAG SHALL BE STAMPED X-YYY-ZZZ
VA WILL ADVISE ON EXACT NOMENCLATURE.
ATTACH TO "INLET" OF BALL VALVE HANDLE.

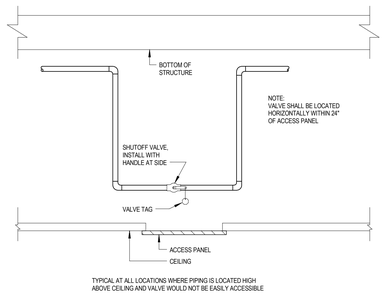
3 NEW BRASS VALVE TAG DETAIL

1" = 1'-0"



4 SINGLE TRAP PRIMER PIPING SCHEMATIC

1" = 1'-0"



5 VALVE DROP DETAIL

1" = 1'-0"

PLUMBING FIXTURE SCHEDULE

SEE SPECIFICATIONS FOR FIXTURE TYPE DESCRIPTION

TYPE	DESCRIPTION	SIZE					COMMENTS
		FIXTURE	WASTE	VENT	HW	CW	
W-1,HC	WATER CLOSET - ACCESSIBLE	----	4"	2"	----	1"	FLOOR MOUNTED, ADA HEIGHT BOWL - BARIATRIC FIXTURE
L-1,HC	LAVATORY - ACCESSIBLE	----	2"	2"	1/2"	1/2"	WALL HUNG, SENSOR FAUCET (BATTERIES)
S-1	EXAM ROOM SINK	----	2"	1-1/2"	1/2"	1/2"	COUNTER MOUNTED - WRISTBLADE HANDLES - W/ FOOT PEDAL CONTROL

MISCELLANEOUS EQUIPMENT AND SPECIALTIES

TAG	DESCRIPTION	WASTE CONN	VENT CONN	HOT WATER	COLD WATER	REMARKS
SA	SHOCK ARRESTOR					SIZED PER FIXTURE UNIT CAPACITY
FD-1-TP	FLOOR DRAIN W/ TRAP PRIMER	4"			1/2"	PROVIDE 1/2" CW CONNECTION

PLUMBING PIPING INSULATION SCHEDULE

DESCRIPTION	PIPE SIZE	INSULATION THICKNESS	TYPE	COMMENTS
DOMESTIC HOT WATER	UP TO 1-1/2"	1"	FLEXIBLE ELASTOMERIC INSULATION	
DOMESTIC HOT WATER	OVER TO 1-1/2"	1-1/2"	FLEXIBLE ELASTOMERIC INSULATION	
DOMESTIC HOT WATER RETURN	UP TO 1-1/2"	1"	FLEXIBLE ELASTOMERIC INSULATION	
DOMESTIC COLD WATER	ALL SIZES	1"	MINERAL FIBER OR FLEXIBLE ELASTOMERIC	
CONDENSATE DRAIN PIPIING	ALL SIZES	1/2"	PVC P-TRAP AND SUPPLY COVERS	PROVIDE FOR DOMESTIC WATER SUPPLIES AND STOPS FOR ACCESSIBLE FIXTURES.

DEMOLITION LEGEND

- - - - - - INDICATES PIPING TO BE REMOVED

INDICATES FIXTURE, OR EQUIPMENT TO BE REMOVED

PLUMBING SYMBOLS AND ABBREVIATION LEGEND

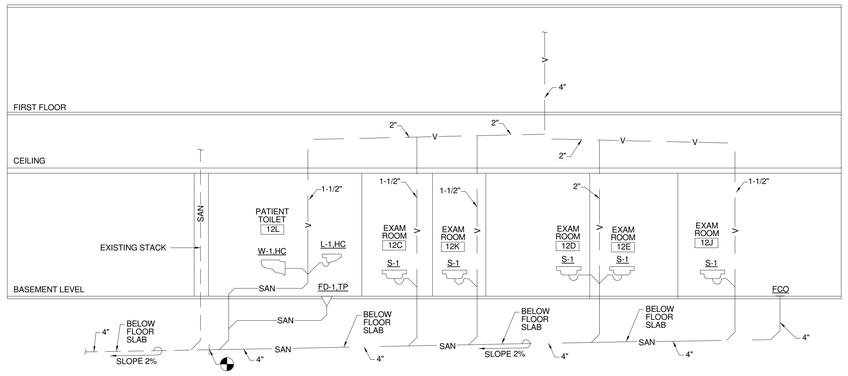
SAN	SANITARY SEWER ABOVE GROUND
SAN	BURIED SANITARY SEWER
V	VENT LINE
	DOMESTIC COLD WATER LINE
	DOMESTIC HOT WATER LINE
	DOMESTIC HOT WATER RETURN LINE
	BALL VALVE
	SHOCK ARRESTOR - SIZE AS MARKED
CO	CLEANOUT AT CEILING (CO) OR WALL (WCO)
FCO	CLEANOUT AT FLOOR (FCO)
	STRAINER
	DRAIN WITH P-TRAP
	UNION
	CHECK VALVE
	HOSE BIBB (HB)
	WALL HYDRANT (WH)
N.T.S.	NOT TO SCALE
G.C.	GENERAL CONTRACTOR
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
SS	SOIL STACK
VS	VENT STACK
WS	WASTE STACK
VTR	VENT THRU ROOF
I.E.	INVERT ELEVATION
	SQUARE FEET
CO	CLEANOUT TO FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
ADA	AMERICAN DISABILITIES ACT
TYP	TYPICAL
XR	EXISTING TO REMAIN
	DROP
	RISE
F-1, F-2, ETC.	PLUMBING FIXTURE TYPE- SEE SPECIFICATION
1 2 ETC.	KEYED PLUMBING NOTE DESCRIBING WORK TO BE DONE
	CONNECTION POINT OF EXISTING PIPING TO NEW PIPING

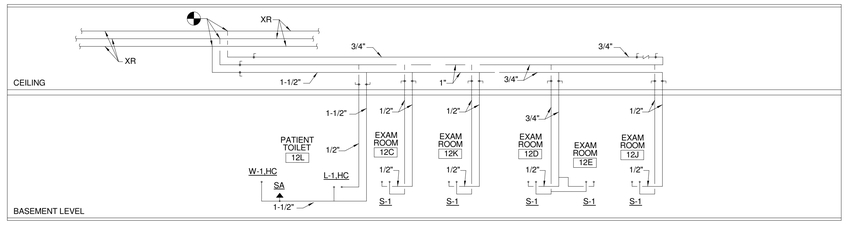
GENERAL PLUMBING NOTES

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE.
2. ALL EXISTING SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS.
3. CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES BEFORE COMMENCING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE WHICH MIGHT OCCUR DUE TO THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY SERVICES, INCLUDING WORK IN EXISTING PIPE CHASES.
4. ALL EXISTING PLUMBING LINES, RISERS, ETC. ENCOUNTERED DURING ALTERATIONS, WHETHER INDICATED OR NOT, SHALL BE DETERMINED TO BE ACTIVE OR INACTIVE BY THIS CONTRACTOR, PRIOR TO COMMENCING ANY WORK. IF LINES ARE ACTIVE THEY SHALL BE OFFSET AS REQUIRED AND RECONNECTED AT THEIR ORIGINAL LOCATIONS. OFFSETS SHALL BE OF THE SAME SIZE AND MATERIAL AS EXISTING, INCLUDING ANY INSULATION. REMOVE ALL USELESS AND INACTIVE PIPING BACK TO THE MAIN, STACK OR RISER, AND CAP. ALL USELESS HOLES IN WALLS AND CEILINGS SHALL BE PATCHED TO MAINTAIN FIRE RATING. ALL SUCH WORK SHALL BE RECORDED ON THE "RECORD" DRAWINGS.
5. THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR MUST FIELD VERIFY ACTUAL CONDITIONS AT THE SITE PRIOR TO PROCEEDING WITH THE WORK. COORDINATE INSTALLATION OF ALL NEW PIPING, EQUIPMENT, ETC. WITH ALL OTHER TRADES.
6. PATCH ALL OPENINGS IN EXISTING CONSTRUCTION WHERE PLUMBING PIPING HAS BEEN REMOVED, OR WHERE PLUMBING PIPING TO REMAIN IS NOT SEALED. MAINTAIN EXISTING RATING.
7. COORDINATE LOCATIONS OF FLOOR DRAINS IN MECHANICAL ROOM WITH ACTUAL EQUIPMENT BEING INSTALLED. ALL HORIZONTAL SANITARY DRAINAGE PIPING IS PITCHED AT 1/4"/FT UP TO 3" DIA., 1/8"/FT FOR 4" DIA. TO 8" DIA., LARGER SIZES AS NOTED. ALL HORIZONTAL STORM DRAINAGE PIPING IS PITCHED AT 1/8"/FT.
8. THE PLUMBING DRAWINGS DO NOT INDICATE ALL STRUCTURAL BEAMS, COLUMNS OR EXACT SIZES. SOME DEVIATIONS TO THE PIPING LAYOUT MAY BE REQUIRED. COORDINATE ACTUAL LOCATIONS OF THE PLUMBING LINES DURING CONSTRUCTION.
9. CONTRACTOR TO COMPLY WITH ALL WATER AND SEWER REQUIREMENTS SET FORTH BY THE AUTHORITY HAVING JURISDICTION.
10. INSTALL NEW CLEANOUT MARKER ON EXISTING CLEANOUTS THAT WILL BE COVERED WITH NEW CARPET IDENTIFY ALL CLEANOUTS ON RECORD DRAWINGS.
11. ALL END OF RUN SANITARY PIPING SHALL BE A MINIMUM OF 18" BELOW FINISHED FLOOR.
12. P.C. TO CLEAN AND FLUSH EXISTING SANITARY MAIN TO ENSURE PROPER FLOW. LINE TO BE CLEANED TO NEAREST MANHOLE.

GENERAL PLUMBING DEMOLITION NOTES:

1. WHERE EXISTING FIXTURES AND EQUIPMENT ARE DISCONNECTED AND REMOVED BY EITHER THE GENERAL CONTRACTOR OR BY THE PLUMBING CONTRACTOR, THE PLUMBING CONTRACTOR SHALL CAP WATER AND PLUG WASTE, SOIL OR VENT LINES IN WALL, BELOW FLOOR OR ABOVE CEILING.
2. REMOVE ALL PIPING THAT IS NOT PART OF THE REMODELED SYSTEM IN THE EXISTING BUILDINGS. RENDER CONCEALED PIPING NOT PART OF THE REMODELED SYSTEM IN THE EXISTING BUILDINGS COMPLETELY "DEAD". WHERE CONCEALED PIPING IS IN EXISTING WALLS OR PARTITIONS TO BE REMOVED OR INTERFERES WITH THE REMODELING CONSTRUCTION, THE PLUMBING CONTRACTOR SHALL REMOVE PIPING AND RENDER REMAINING PIPING COMPLETELY "DEAD" OR RELOCATE PIPING IF IT IS PART OF THE REMODELED SYSTEM.
3. REMOVAL OF EXISTING PIPING SHALL INCLUDE ALL HANGERS AND HARDWARE.
4. EXISTING PIPING SHOWN ON THE DEMOLITION DRAWINGS IS BASED ON EXISTING DOCUMENTS PROVIDED. THEY GENERALLY INDICATE THE LOCATIONS OF PIPING TO BE REMOVED. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND BE RESPONSIBLE FOR FIELD CONDITIONS.
5. ANY ADDITIONAL PLUMBING FIXTURES, EQUIPMENT, PIPING, AND ACCESSORIES THAT ARE NOT SHOWN, BUT ARE REQUIRED TO BE REMOVED, SHALL BE REMOVED BY THE PLUMBING CONTRACTOR AT THEIR EXPENSE. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.





6 RISER DIAGRAM

1/4" = 1'-0"

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title
PLUMBING SYMBOLS, SCHEDULES & NOTES

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 **Checked:** MEW **Drawn:** MEW

Project Number 528A5-13-532

Building Number #3

Drawing Number P001

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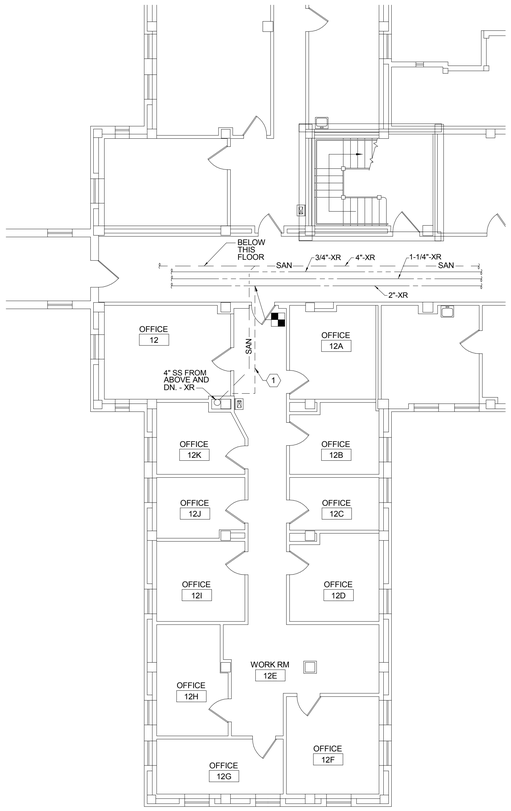
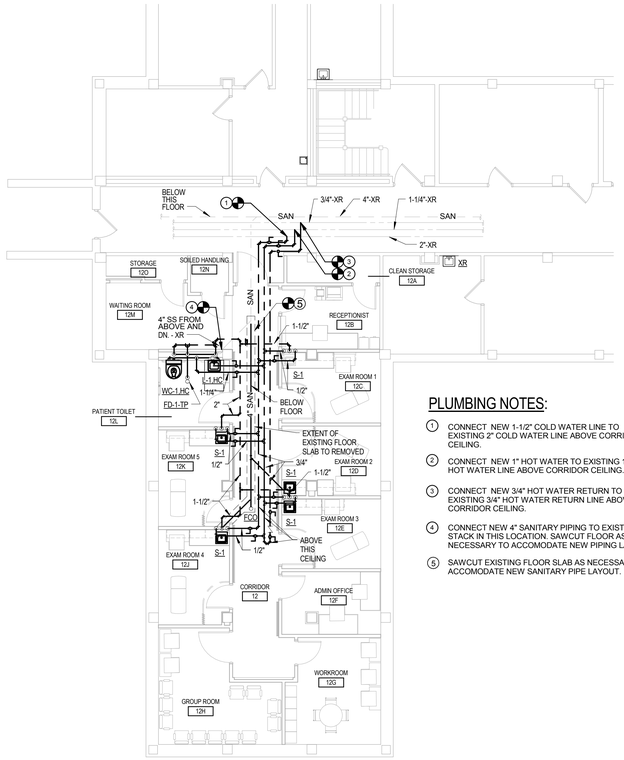


PLUMBING DEMOLITION KEY NOTES:

1. REMOVE EXISTING DOMESTIC COLD WATER PIPING.

1 BASEMENT LEVEL PLAN - PLUMBING - DEMOLITION
1/8" = 1'-0"



PLUMBING NOTES:

1. CONNECT NEW 1-1/2" COLD WATER LINE TO EXISTING 2" COLD WATER LINE ABOVE CORRIDOR CEILING.
2. CONNECT NEW 1" HOT WATER TO EXISTING 1-1/4" HOT WATER LINE ABOVE CORRIDOR CEILING.
3. CONNECT NEW 3/4" HOT WATER RETURN TO EXISTING 3/4" HOT WATER RETURN LINE ABOVE CORRIDOR CEILING.
4. CONNECT NEW 4" SANITARY PIPING TO EXISTING STACK IN THIS LOCATION. SAWCUT FLOOR AS NECESSARY TO ACCOMODATE NEW PIPING LAYOUT.
5. SAWCUT EXISTING FLOOR SLAB AS NECESSARYTO ACCOMODATE NEW SANITARY PIPE LAYOUT.

2 BASEMENT LEVEL PLAN - PLUMBING - NEW WORK
1/8" = 1'-0"

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title: PLUMBING FLOOR PLANS

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

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Date: 03 / 07 / 2014 | Checked: MEW | Drawn: MEW

Project Number: 528A5-13-532

Building Number: #3

Drawing Number: P100

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Office of Construction and Facilities Management
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MISCELLANEOUS ABBREVIATIONS

ABV	ABOVE
APPROX	APPROXIMATELY
AUTO	AUTOMATIC
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AP	ACCESS PANEL
ATC	AUTOMATIC TEMPERATURE CONTROL
AWT	AVERAGE WATER TEMPERATURE
BLDG	BUILDING
BLW	BELOW
BC	BALANCING COCK
BDD	BACKDRAFT DAMPER
CAP	CAPACITY
CFH	CUBIC FEET/ HOUR
CHK V	CHECK VALVE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS&R	CHILLED WATER SUPPLY/RETURN
CLG	CEILING
CLG MTD	CEILING MOUNTED
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONTR	CONTRACTOR
CONT	CONTINUE
CONV	CONVECTOR
CORR	CORRIDOR
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
CV	CONTROL VALVE
DB	DRY BULB
DHW	DOMESTIC HOT WATER
DCW	DOMESTIC COLD WATER
DIFF	DIFFUSER
DISCH	DISCHARGE
DN	DOWN
DO	DITTO
DPR	DAMPER
DR	DRAIN
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EMER	EMERGENCY
EQUIP	EQUIPMENT
EXH	EXHAUST
ETR	EXISTING TO REMAIN
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
FLG C	FLANGE CONNECTION
FLR	FLOOR
FRM	FROM
FT HD	FEET OF HEAD
FAT	FINAL AIR TEMPERATURE
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
S/FD	SMOKE/FIRE DAMPER
FLR DR	FLOOR DRAIN
GA	GAUGE
GL V	GLOBE VALVE
GRAV	GRAVITY
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HC	HEATING CONTRACTOR
HP	HORSE POWER
HPD	HIGH PRESSURE DRIP
HTG	HEATING
HV	HIGH VELOCITY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWS&R	HOT WATER SUPPLY AND RETURN

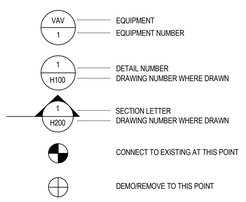
IME	INSULATED METAL ENCLOSURE
IN	INCHES
INCL	INCLUDED
INSUL	INSULATION
INTERL	INTERLOCK
INV	INVERT
IER	INVERTED ECCENTRIC REDUCER
IVS	ISOLATION VALVE STATION
LTG	LIGHTING
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LSDC	LINEAR SUPPLY DIFFUSER CEILING
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
MTL	METAL
MTR	MOTOR
MAT	MIXED AIR TEMPERATURE
MAV	MANUAL AIR VENT
MBH	ONE THOUSAND BTU/HOUR
MOD	MOTOR OPERATED DAMPER
MH	MANHOLE
MER	MECHANICAL EQUIPMENT ROOM
NTS	NOT TO SCALE
NA	NOT APPLICABLE
OPER	OPERATED
OPNG	OPENING
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OS&Y	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PRD	PRESSURE DIFFERENTIAL VALVE
PD	PUMP DISCHARGE
PG	PRESSURE GAUGE WITH COCK
PRV	PRESSURE REDUCING VALVE
PT	PRESSURE TAP
REQD	REQUIRED
RET	RETURN
REX	REMOVE EXISTING
RM	ROOM
RA	RETURN AIR/RELIEF AIR
RV	RELIEF VALVE
SCH	SCHEDULE
SA	SUPPLY AIR
SHT	SHEET
SHT MTL	SHEET METAL
STL	STEEL
STR	STRAINER
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
TA	THROWAWAY
TDV	TRIPLE DUTY VALVE
TEMP	TEMPERATURE
TH	THERMOMETER
TRANS	TRANSITION
TYP	TYPICAL
TSTAT	THERMOSTAT
TCV	TEMPERATURE CONTROL VALVE
TR	TEMPERATURE RISE
TV	TURNING VANES
UC	UNDERCUT
V	VALVE
VD	VOLUME CONTROL DAMPER
VFS	VENTURI FLOW STATION
WB	WET BULB
WFMD	WATER FLOW MEASURING DEVICE
WG	WATER GAUGE
WTD	WATER TEMPERATURE DROP
W/	WITH
W/O	WITH OUT

EQUIPMENT TAG ABBREVIATIONS

ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
ACCUM	ACCUMULATOR
AHU	AIR HANDLING UNIT
ASHP	AIR SOURCE HEAT PUMP
B	BOILER
BB	BASEBOARD HEATER
BD	BAROMETRIC DAMPER
BDD	BACK DRAFT DAMPER
CC	CHILLED WATER COOLING COIL
CD	CONDENSATE DRAIN
CIRC	CIRCULATOR
CMPR	COMPRESSOR
CONV	CONVECTOR
CP	CONDENSATE PUMP
CUH	CABINET UNIT HEATER
DC	DRY COOLER
EF	EXHAUST FANS
ER	EXHAUST REGISTER
ERW	EXHAUST REGISTER WALL
ET	EXPANSION TANK
ECUH	ELECTRIC CABINET UNIT HEATER
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EVAP	EVAPORATOR

FT	FINNED TUBE RADIATION
FCU	FAN COIL UNIT
FPB	FAN POWERED BOX
FU	FURNACE
GIV	GRAVITY INTAKE VENTILATOR
GRV	GRAVITY ROOF VENTILATOR
H	HUMIDIFIER
HC	HOT WATER HEATING COIL
HUH	HORIZONTAL UNIT HEATER
RG	RETURN GRILLE
RR	RETURN REGISTER
RAG	RETURN AIR GRILLE
RCP	RADIANT CEILING PANEL
RTU	ROOF TOP UNIT
SF	SUPPLY FAN
SSAC	SPLIT SYSTEM AIR CONDITIONING UNIT
SSDC	SECURITY SUPPLY DIFFUSER CEILING
SSEF	SECURITY SMOKE EXHAUST FAN
SSGC	SECURITY SUPPLY GRILLE CEILING
SSGW	SECURITY SUPPLY GRILLE WALL
SLSD	SUPPLY LINEAR SLOT DIFFUSER
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONING UNIT
UH	UNIT HEATER
UV	UNIT VENTILATOR
UCD	UNDER CUT DOOR
VAV	VARIABLE AIR VOLUME

DRAWING SYMBOLS



PIPELINE ABBREVIATIONS

SYMBOLS	DESCRIPTION
CD	CONDENSATE DRAIN LINE
CTD	COOLING TOWER DRAIN LINE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
HWHS	HOT WATER HEATING SUPPLY
HWHR	HOT WATER HEATING RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LPCR	LOW PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MPCR	MEDIUM PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HPCR	HIGH PRESSURE CONDENSATE RETURN
PC	PUMPED CONDENSATE
HRS	ENERGY (HEAT) RECOVERY SUPPLY
HRR	ENERGY (HEAT) RECOVERY RETURN
RL	REFRIGERANT LINE
RS	REFRIGERANT SUCTION
NAME	PIPE TO BE REMOVED
NAME	EXISTING PIPING TO REMAIN

PIPELINE SYMBOLS

	BALL VALVE
	GATE VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	PLUG VALVE
	RELIEF VALVE
	ECCENTRIC REDUCER
	INVERTED ECCENTRIC REDUCER
	STRAINER
	UNION
HIGH	THERMOMETER
	PRESSURE GAUGE
FT FT	WATER FLOW MEASURING DEVICE (VENTURI FLOW STATION) BALANCING COCK
	PRESSURE TAP
	PRESSURE REDUCING VALVE
	TWO-WAY MODULATING CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	SAFETY VALVE OR PRESSURE RELIEF
A	AUTOMATIC AIR VENT
M	MANUAL AIR VENT
	TWO-WAY CONTROL VALVE (TWO POSITION TYPE)
	MOTORIZED VALVE
	AQUASTAT
	FUNNEL DRAIN
	PIPING TURNED UP
	PIPING TURNED DOWN
	TEE - OUTLET UP
	TEE- OUTLET
	SIDE CONNECTION
	CAPPED OUTLET
	DIRECTION OF FLOW
	PIPE BREAK (SINGLE LINE)
	FLEXIBLE CONNECTION
	BACKFLOW PREVENTION DEVICE

HVAC SYMBOLS

DOUBLE LINE SHEETMETAL

SYMBOLS	DESCRIPTION
12"X12"	RECTANGULAR SUPPLY, RETURN OR RELIEF DUCT WIDTH (SHOWN)XDEPTH
12"/12"	OVAL SUPPLY, RETURN OR RELIEF DUCT WIDTH (SHOWN)XDEPTH
12"Ø	ROUND SUPPLY, RETURN OR DUCT W/TURNING VANES (DUCT WIDTH OVER 18")
	DUCT W/ TURNING VANES
	DUCT W/O TURNING VANES
	RADIUS ELBOW (DUCT WIDTH 17" AND LOWER)
	LOW LOSS TAKE OFF (ARROW INDICATES DIRECTION OF AIR FLOW)
	CONICAL SPIN-IN FITTING
	BOOT CONNECTION WITH MANUAL VD (ARROW INDICATES AIR FLOW DIRECTION)
	RETURN AIR DUCT UP
	SUPPLY DUCT UP
	EXHAUST AIR DUCT UP
	RETURN AIR DUCT DN
	SUPPLY DUCT DN
	EXHAUST AIR DUCT DN
12"X12"	MANUAL VOLUME CONTROL DAMPER (VD)
24"X24" 24"X24"	RISE/DROP IN DUCTWORK (ARROW SHOWS DIRECTION OF DROP)
S	DUCT/SPACE STATIC PRESSURE SENSOR
WS	WALL SWITCH
T	DUCT/WALL TEMPERATURE SENSOR, ELECTRIC
SD	DUCT MOUNTED SMOKE DETECTOR PROVIDED BY EC, INSTALLED BY HC
M	MOTORIZED DAMPER
B	BACKDRAFT DAMPER
FD	FIRE DAMPER AT FIRE WALL (PROVIDE ACCESS PANEL IN DUCT AND CEILING)
	SMOKE DAMPER/DETECTOR DETECTOR BY E.C. DAMPER BY H.C.
F/SD	COMBINATION FIRE/SMOKE DAMPER
FD FD	FIRE DAMPER IN VERTICAL DUCT THRU FLOOR OR HORIZONTAL DUCT ABOVE CEILING (PROVIDE ACCESS PANEL IN DUCT AND WALL OR CEILING)
	ACCESS DOOR ON BOTTOM OF DUCT (HINGED & GASKETED)
AD	ACCESS DOOR ON SIDE OF DUCT (HINGED & GASKETED)
	SUPPLY AIR DIFFUSER
TF	THERMAL VAV DIFFUSER
	RETURN AIR REGISTER
	EXHAUST REGISTER
	EXHAUST/RETURN AIR REGISTER (DUCT OR WALL)
	SUPPLY AIR REGISTER (DUCT OR WALL)

SINGLE LINE - SHEET METAL

SYMBOLS	DESCRIPTION
24X12	DUCT SIZE (WIDTH X DEPTH)
24"Ø	ROUND DUCT SIZE (DIAMETER)
24"Ø	FLEXIBLE DUCT (DIAMETER SIZE)
	SUPPLY DUCT CROSS SECTION UP
	SUPPLY DUCT CROSS SECTION DN
	RETURN CROSS SECTION UP
	RETURN CROSS SECTION DN
	EXHAUST CROSS SECTION UP
	SQUARE ELBOW WITH TURNING VANES
	RADIUS TURN ELBOW
	DUCT END CAP

HVAC GENERAL NOTES

1. NOT ALL SYMBOLS ARE NECESSARILY USED.
2. COORDINATE FINAL LOCATIONS OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
3. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY DUCT AND PIPE ROUTING AND COORDINATE INTERFERENCE BETWEEN TRADES PRIOR TO INSTALLATION.
4. ROOF OPENINGS, FLASHING, AND COUNTER FLASHING BY GENERAL CONTRACTOR. LOCATION OF OPENINGS BY HEATING CONTRACTOR.
5. DUCTWORK TO BE INSTALLED TIGHT TO UNDERSIDE OF STRUCTURE ABOVE UNLESS NOTED OTHERWISE.
6. PROVIDE ALL MATERIALS, EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
7. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD SURVEY ACTUAL SITE CONDITIONS AND ACCOMMODATE ACTUAL SITE CONDITIONS AS PART OF SCOPE OF WORK AT NO COST TO OWNER.
8. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, APPLICABLE BUILDING, STATE, AND LOCAL CODES, SEISMIC REQUIREMENTS, ENERGY CODES, AND INSURANCE UNDERWRITER REQUIREMENTS.
9. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND ELECTRICAL WORK, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
10. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, SUPPORTS, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
11. ALL TESTS SHALL BE COMPLETED AND ACCEPTED BY THE INSPECTOR BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
12. LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH A STRAIGHT SECTION OF PIPE OR DUCT UPSTREAM AND DOWNSTREAM, AS RECOMMENDED BY THE MANUFACTURER FOR ACCURACY.
13. TESTING ADJUSTING AND BALANCING (TAB) AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCING COUNCIL (AABC), THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR THE TESTING, ADJUSTING AND BALANCING BUREAU (TABB). TAB FIRM SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE ON SIMILAR PROJECTS. PERFORM TAB IN ACCORDANCE WITH THE REQUIREMENTS OF THE TAB PROCEDURAL STANDARD RECOMMENDED BY THE TAB TRADE ASSOCIATION THAT APPROVED THE TAB FIRM'S QUALIFICATIONS.
14. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCTS OF A SINGLE MANUFACTURER SHALL BE USED.
15. COORDINATE ALL FINAL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCTWORK AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCTWORK AND PIPING DIMENSIONS BEFORE FABRICATION.
16. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE, DIVISION 16 OF THE SPECIFICATIONS, ALL LOCAL CODES, AND OWNER'S INSURANCE UNDERWRITER REQUIREMENTS.
17. WHEN MECHANICAL WORK (HVAC, PLUMBING, FIRE PROTECTION, CONTROLS, ETC.) IS SUBCONTRACTED BY THE MC, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY FOR COORDINATING SUBCONTRACTORS AND THEIR ASSOCIATED SCOPE OF WORK. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH SUBCONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH SUBCONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR AND HIS DECISION SHALL BE FINAL.
18. THE LOCATIONS AND SIZES OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS AND SIZES NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS SHALL BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
19. PLAN DRAWINGS AND SECTION CUTS WHICH SPECIFICALLY IDENTIFY SERVICE ROUTE OFFSETS, ELEVATION CHANGES, OBSTRUCTIONS, ACCESS DOORS, BALANCING DEVICES, ETC. ARE SHOWN FOR CLARITY WHERE SPECIFIC KNOWN CONDITIONS EXIST. MECHANICAL CONTRACTOR SHALL COORDINATE EQUIPMENT, DUCTWORK, AND PIPING ROUTINGS WITH ALL OTHER TRADES. REQUIREMENTS NOT SPECIFICALLY IDENTIFIED SHALL NOT BE INTERPRETED AS EXCLUSION FROM CONTRACTOR'S SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL SITE CONDITIONS AND SHALL INCLUDE SUCH CONDITIONS IN SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
20. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND SUPPORT OF MECHANICAL WORK AS SHOWN IN DETAILS FOR PIPING, DUCTWORK AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
21. PROVIDE ACCESS DOORS AND PANELS AS SPECIFIED FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE, BALANCE, ADJUST, MAINTAIN, AND/OR INSPECT DAMPERS, VALVES, SMOKE DETECTORS, CONTROLS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE GIVEN TO THE GENERAL CONTRACTOR FOR INSTALLATION. ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH ALL DISCIPLINES.
22. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
23. ALL OPENINGS IN FIRE RATED WALLS AND SMOKE PARTITIONS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH APPROVED FIRESTOPPING MATERIALS.
24. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT INSTALLATION.
25. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 48" (CENTER LINE) ABOVE FINISHED FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CAN NOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION. COORDINATE FINAL LOCATIONS WITH OWNER.
26. LOCATE ALL MECHANICAL EQUIPMENT (VAV BOXES, CABINET HEATERS, UNIT HEATERS, ETC.,) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, FILTERS, CONTROLS AND VALVING. DO NOT LOCATE FAN POWERED VAV BOXES ABOVE LIGHTING FIXTURES.
27. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN AND EXHAUST) CONNECTED TO FANS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
28. ALL LOUVERS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR (UNLESS OTHERWISE NOTED). GENERAL CONTRACTOR SHALL COORDINATE SIZES, LOCATIONS, AND CONNECTIONS WITH MECHANICAL CONTRACTOR. DUCTWORK CONNECTIONS TO LOUVERS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
29. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN HYDRONIC WATER PIPING SYSTEMS. ALL PIPING SHALL SLOPE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
30. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
31. ALL ISOLATION VALVES SHALL BE IN A LOCATION AND ELEVATION WHICH ALLOWS FOR EQUIPMENT AND BRANCH PIPING REMOVAL, WHILE MAINTAINING SERVICE UPSTREAM OF THE ISOLATION VALVE.
32. ALL BALANCING VALVES AND ISOLATION VALVES USED TO ADJUST FLOW RATES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
33. ALL ISOLATION VALVES (EXCEPT CONTROL VALVES), STRAINER, AND PIPING SPECIALTIES AND STRAINERS SHALL BE FULL LINE SIZE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
34. MECHANICAL JOINTS SUCH AS UNIONS, FLANGES, OR THREADED FITTINGS SHALL BE INSTALLED AT EACH EQUIPMENT CONNECTION, IN BYPASSES, AT FLOOR PENETRATIONS, AT CONTROL DEVICES, AND IN LONG PIPE RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
35. MEASURE, CUT, AND INSTALL PIPE LENGTH ACCURATELY TO MINIMIZE MISALIGNMENT. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
36. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION (EXCEPT WATER COILS). FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.
37. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT VIBRATION TRANSMISSION TO BUILDING STRUCTURE.
38. CONCRETE HOUSEKEEPING PADS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE EQUIPMENT WEIGHTS, SIZES, AND LOCATION TO GENERAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE IN ACCORDANCE WITH STRUCTURAL DETAILS. PAD SHALL EXTEND BEYOND THE EQUIPMENT FOOTPRINT A MINIMUM OF 6 INCHES ON EACH SIDE.
39. ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL MEMBERS, BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE APPROVED BY STRUCTURAL ENGINEER. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED.
40. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM ROOF OR DECK ASSEMBLY. SUPPORTS SHALL ATTACH TO STRUCTURAL MEMBERS. COORDINATE WITH STRUCTURAL DRAWINGS.
41. PROVIDE MANUFACTURER'S MATCHING ROOF CURBS FOR ALL ROOF MOUNTED EQUIPMENT. COORDINATE ACTUAL ROOF PITCH AND CONSTRUCTION DETAILS WITH GENERAL CONTRACTOR. PROVIDE SLOPED CURBS PER MANUFACTURER'S RECOMMENDATIONS. GENERAL CONTRACTOR SHALL INSTALL ROOF CURBS AND FLASHING PER ROOFING MANUFACTURER'S INSTALLATION REQUIREMENTS.
42. UNLESS OTHERWISE NOTED, ALL PIPING AND DUCTWORK IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION.
43. PROVIDE CHAINWHEEL OPERATORS FOR ALL EXPOSED VALVES MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR LEVEL. CHAIN SHALL EXTEND UNOBSTRUCTED TO 7'-0" ABOVE FLOOR LEVEL.
44. ALL PIPING AND DUCTWORK SHALL CLEAR DOORS, WINDOWS, EQUIPMENT CLEARANCES, MAINTENANCE REQUIREMENTS, CODE SETBACKS, ETC. TO ASSURE PROPER OPERATION, INSPECTION, AND MAINTENANCE.
45. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
46. PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED OR SPECIFIED. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS CONTAINING TURNING VANES.
47. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS. GROUNDING STRAPS SHALL BE BOLTED OR SOLDERED TO BOTH THE EQUIPMENT AND THE DUCT.
48. ALL EQUIPMENT SUBMITTALS AND SHOP DRAWINGS REQUIRED BY THE SPECIFICATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO PURCHASE, FABRICATION, AND INSTALLATION.
49. ALL HEATING DEVICES AND SURFACES WITH ELEVATED TEMPERATURES WHICH CAN BE ACCESSED OR COME IN CONTACT WITH OWNER PERSONNEL SHALL BE PROTECTED, INSULATED, OR CONTROLLED TO REMAIN BELOW 120°F.
50. PROVIDE MANUAL VOLUME DAMPERS IN ALL RUN-OUTS TO DIFFUSERS, BRANCH TAKE-OFFS FROM MAIN SUPPLY DUCT, AND IN ALL OTHER AREAS REQUIRED TO PROVIDE PROPER SYSTEM AIRFLOW BALANCING.

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

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Drawing Title
HVAC SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 **Checked:** CJC **Drawn:** SPL

Project Number 528A5-13-532

Building Number #3

Drawing Number H001

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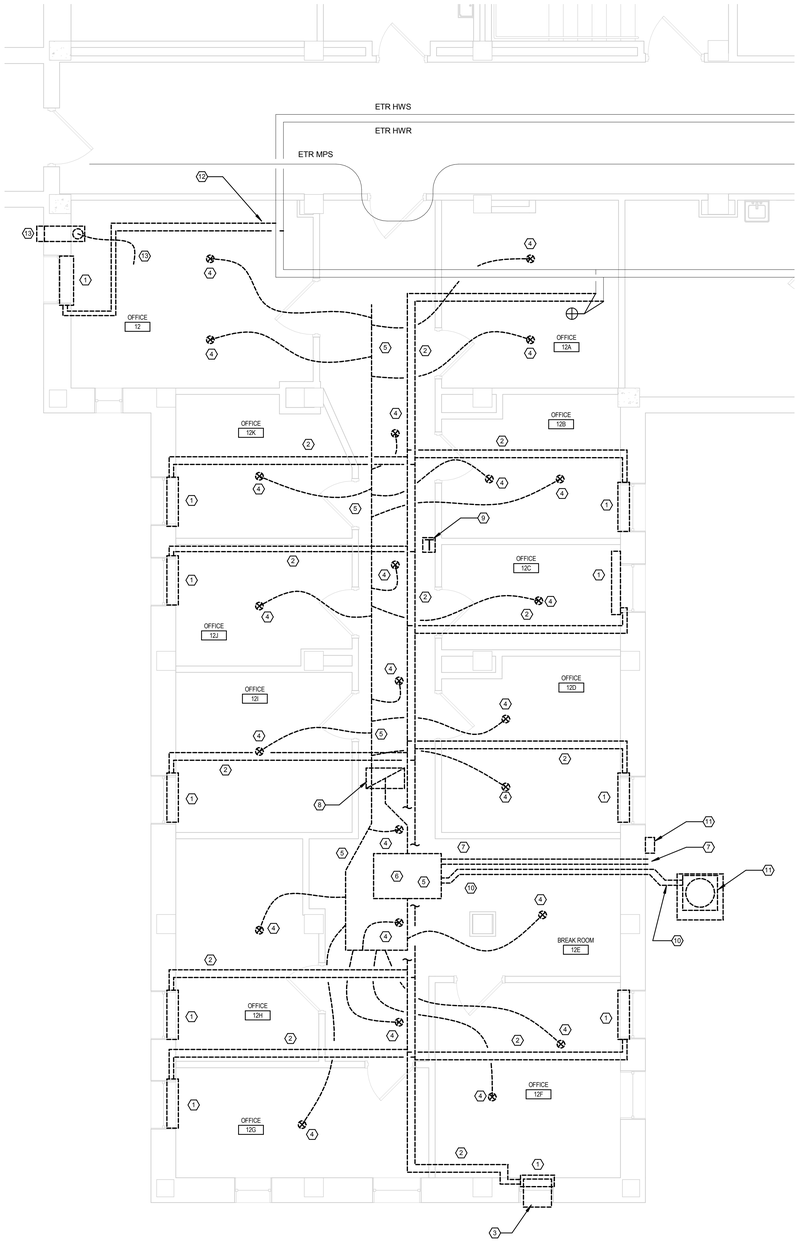
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 BASEMENT HVAC DEMOLITION
1/4" = 1'-0"

HVAC DEMOLITION GENERAL NOTES

1. ALL REMAINING OPENINGS IN THE WALLS OR ROOF SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND BE SEALED WATERTIGHT. REFER TO ARHCITECTURAL PLANS FOR ADDITIONAL INFORMATION.
2. REMOVE ALL DUCTWORK INDICATED TO BE REMOVED INCLUDING ALL SUPPORTS, BRANCH DUCTS NOT SHOWN, AND ASSOCIATED CONTROLS.
3. REMOVE ALL EXISTING ABANDONED DUCTWORK, PIPING, AND CONDUIT FOUND DURING DEMOLITION. CONTRACTOR TO CONVIRM WITH THE VA FACILITIES GROUP PRIOR TO REMOVAL.
4. PROJECT REQUIRES REMOVAL OF VARIOUS ITEMS (DUCTWORK, PIPING, EQUIPMENT, ETC.). THE CONTRACTOR SHALL REMOVE ALL HARDWARE, ELECTRICAL, ACCESORIES AND INCIDENTIALS ASSOCIATED WITH THAT ITEM UNLESS NOTED OTHERWISE.
5. ALL MOUNTING BOLTS AND ANCHORS SHALL BE REMOVED FLUSH WITH ADJACENT SURFACES. THE CONTRACTOR SHALL ALSO PATCH AND REPAIR HOLED IN FLOOR, COLUMNS, AND WALLS LEFT BY MATERIALS BEING REMOVED OR RELOCATED.
6. THE CONTRACTOR SHALL CAREFULLY INSPECT THE SITE TO FULLY UNDERSTAND THE SCOPE OF THE WORK.

HVAC DEMOLITION KEY NOTES

1. REMOVE HOT WATER RADIATOR, ENCLOSURE, AND THERMOSTAT.
2. REMOVE HOT WATER PIPING, AND SUPPORTS, TO POINT SHOWN.
3. REMOVE WINDOW MOUNTED AIR CONDITIONING UNIT AND SUPPORTS.
4. REMOVE CEILING MOUNTED SUPPLY NOZZLE AND FLEXIBLE DUCT.
5. REMOVE ALL FLEXIBLE DUCTWORK AND SUPPORTS.
6. REMOVE FAN COIL UNIT, SUPPORTS, AND DRAIN PAN.
7. REMOVE CONDENSATE DRAIN AND OVERFLOW DRAIN.
8. REMOVE RETURN GRILLE AND CONNECTED DUCTWORK
9. REMOVE THERMOSTAT AND CONTROL WIRING.
10. REMOVE REFRIGERANT PIPING AND CONTROL WIRING TO CONDENSING UNIT.
11. REMOVE CONDENSING UNIT AND DISCONNECT SWITCH. REMOVE CONCRETE PAD AND PREPAIR AREA FOR NEW PAD.
12. REMOVE HOT WATER PIPING TO MAIN AND CAP.
13. REMOVE OUTSIDE AIR INTAKE, DUCTWORK, AND FLEXIBLE DUCT. RETAIN WALL OPENING FOR REUSE.

NORTH

FULLY SPRINKLERED
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Drawing Title
BASEMENT HVAC DEMOLITION PLAN

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Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014
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Project Number 528A5-13-532
Building Number #3
Drawing Number HD100
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Office of Construction and Facilities Management
Department of Veterans Affairs

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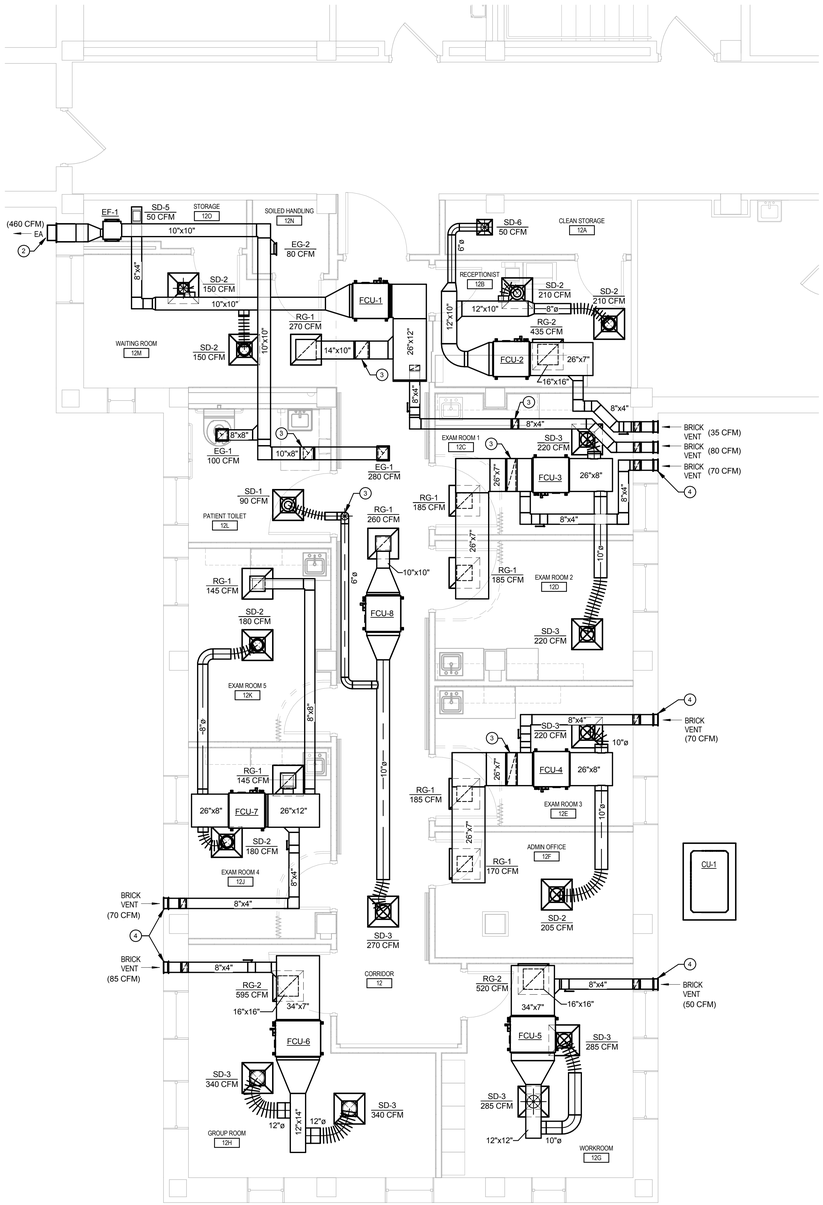


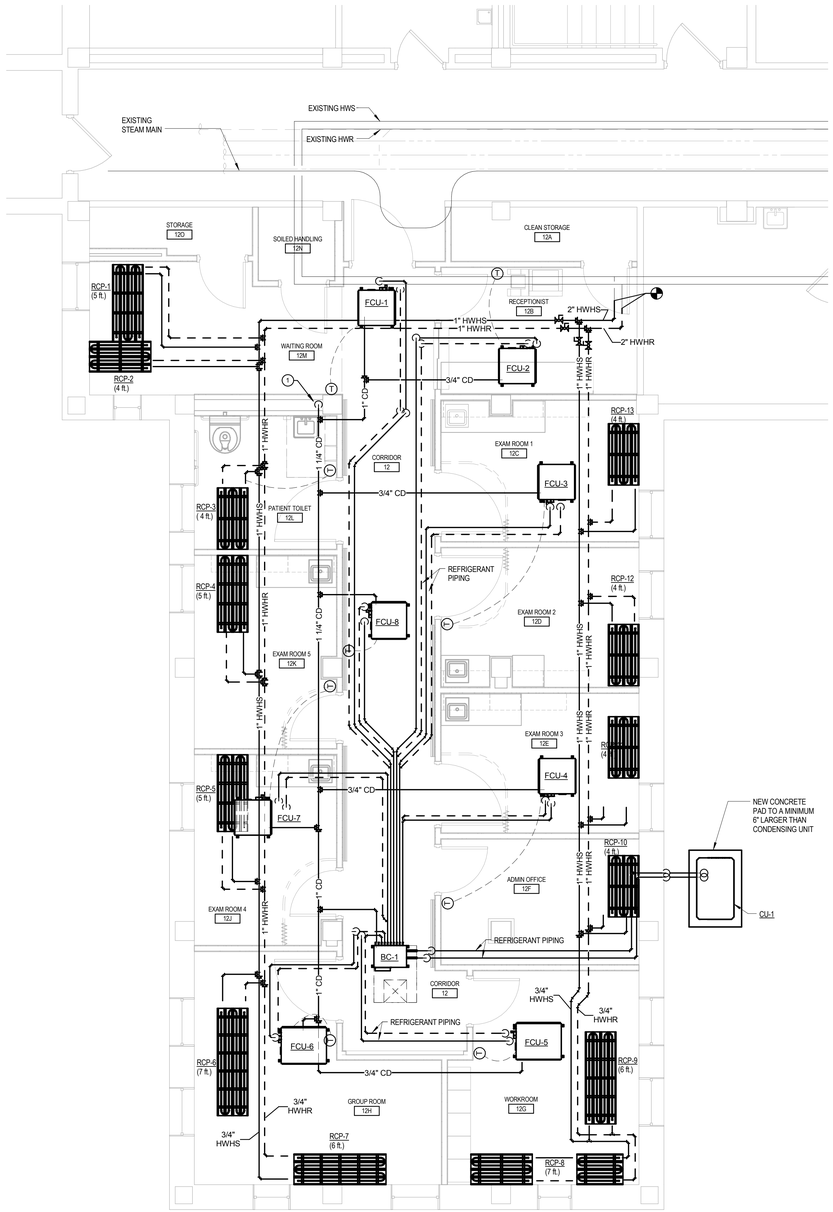
1 BASEMENT DUCTWORK PLAN
1/4" = 1'-0"

HVAC GENERAL NOTES

1. ALL RUN-OUTS TO RADIANT CEILING PANELS SHALL BE 3/4" MINIMUM PIPE SIZE.
2. REFRIGERANT PIPING TO BE SIZED BY MANUFACTURER.
3. THERMOSTAT WIRING IS SHOWN TO FCU ONLY. CORRESPONDING RCP WILL BE CONTROLLED FROM THE SAME THERMOSTAT.
4. WHERE A LARGER DUCT IS SHOWN TO TAP INTO A SMALLER DUCT, PROVIDE AN OVAL TAP WITH A TRANSITION TO ROUND.

HVAC KEY NOTES

1. ROUTE CONDENSATE DRAIN PIPING TO SAFE WASTE IN PLUMBING CHASE.
2. WALL CAP AND BACKDRAFT DAMPER PROVIDED WITH THE EXHAUST FAN. REUSE EXISTING OPENING LEFT FROM DEMOLITION.
3. DROP DOWN TO BELOW STRUCTURAL BEAM.
4. REFER TO ARCHITECTURAL PLAN A100 FOR BRICK VENT DETAIL.



2 BASEMENT PIPING PLAN
1/4" = 1'-0"

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CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title
BASEMENT HVAC NEW WORK

Approved: Project Director

Project Title:
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Location:
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Date: 03 / 07 / 2014 **Checked:** CJC **Drawn:** SPL

Project Number 528A5-13-532

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Drawing Number H100

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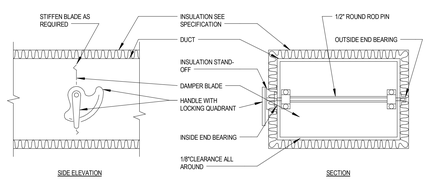
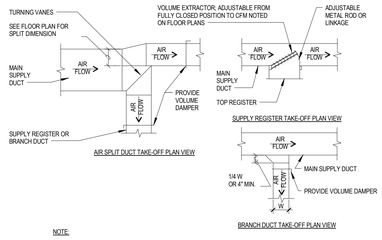


NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.

2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

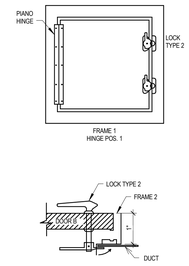
1 VOUME DAMPER
NTS



NOTE:

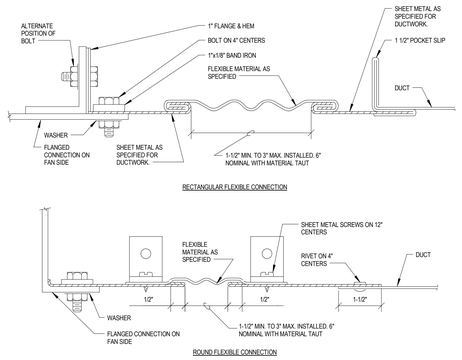
1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

2 SUPPLY DUCTWORK TAKE-OFFS
NTS

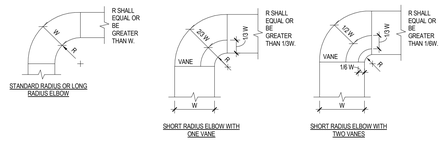


	DOOR SIZE	NO. HINGES	NO. LOCKS	METAL GAUGE		
				FRAME	DOOR	BACK
2" W.G. STATIC AND LESS	12" x 12" 16" x 20" 24" x 24"	2 2 3	1-S 2-S 2-S	24 22 22	26 24 22	26 26 26
3" W.G. STATIC	12" x 12" 16" x 20" 24" x 24"	2 2 3	1-S 1-S,1-T,1-B 2-S,1-T,1-B	22 20 20	22 20 20	26 26 24
4" W.G. TO 10" W.G.	12" x 12" 16" x 20" 24" x 24"	2 3 3	1-S,1-T,1-B 2-S,1-T,1-B 2-S,2-T,2-B	20 18 18	20 18 18	26 24 24
S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM						

3 DUCT ACCESS DOOR DETAIL
NTS



4 FLEXIBLE DUCT CONNECTIONS
NTS



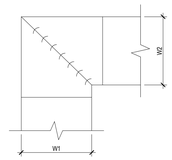
NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.

2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

3. FOR R < 1-1/2 W, VANES SHALL BE USED.

5 DUCTWORK RADIUS ELBOWS
NTS



NOTES:

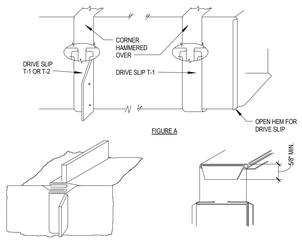
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.

2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.

3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.

4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

6 DUCTWORK SQUARE VANE ELBOWS
NTS

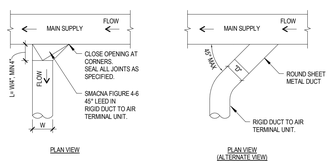


ROUND GALVANIZED STEEL DUCTWORK SCHEDULE					
DUCT DIA	US DUCT GAUGE SPIRAL LONGITUDINAL		US FITTING GAUGE SPIRAL LONGITUDINAL		
3"-14"	26	24	20	22	4" BEADED SLEAVE
15"-26"	24	22	20	20	4" BEADED SLEAVE
27"-36"	22	20	20	18	4" BEADED SLEAVE
37"-50"	20	20	18	16	1-1/2" x 1-1/2" x 3/16" RT-2
51"-60"	18	-	16	-	1-1/2" x 1-1/2" x 3/16" RT-2A

MITERED ELBOWS SHALL HAVE A MINIMUM CENTERLINE RADIUS OF 1 1/2 TIMES THE DUCT DIAMETER AND CONFORM AS FOLLOWS:

NUMBER OF MITERED PIECES		
90 DEG	60 DEG	45 DEG
5	4	3

SEAMS SHALL BE LOCK AND PRESS OR SNAPLOCK.



7 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT
NTS

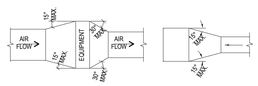
GENERAL FLEXIBLE DUCTWORK NOTES:

1. USE OF FLEXIBLE DUCTWORK SHALL BE RESTRICTED TO CONNECTIONS BETWEEN THE VAV/CV AIR TERMINAL UNITS AND THE MEDIUM OR HI PRESSURE SUPPLY DUCT AND CONNECTIONS BETWEEN SUPPLY DIFFUSERS AND THE LOW PRESSURE SUPPLY AIR DUCTWORK.

2. USE OF FLEXIBLE DUCTWORK IN EXPOSED AREAS IS PROHIBITED.

3. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5'-0".

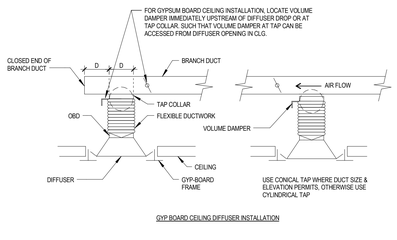
4. DO NOT PENETRATE FIREWALLS AND INTERSTITIAL DECKS WITH FLEX. DUCTS.



NOTE:

1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

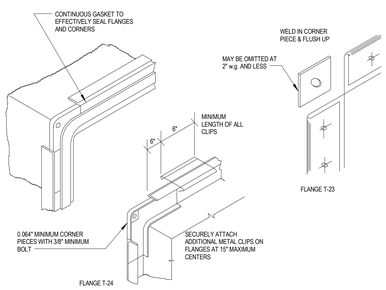
8 DUCTWORK TRANSITIONS (W/EQUIP MOUNTED IN DUCT)
NTS



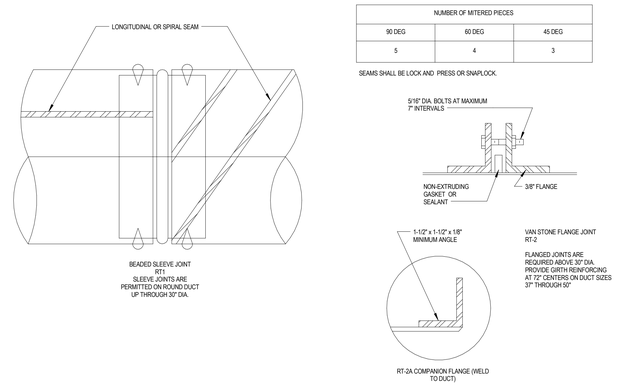
NOTE:

1. ALL FLEXIBLE DUCTWORK SHALL BE UL-181 CLASS 1 RATED.

10 CEILING DIFFUSER INSTALLATION
NTS



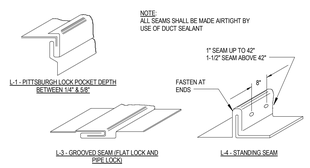
11 CORNER CLOSURES
NTS



DUCT CONSTRUCTION SCHEDULE			
SYSTEM TYPE	DUCT PRESSURE CLASS (SMACNA)	SEAL CLASS	MAX. LEAKAGE
LOW PRESSURE (DOWNSTREAM OF INDOOR UNIT)	+3" W.C.	A	1%
LOW PRESSURE EXHAUST	-3" W.C.	A	1%

NOTE: STANDARDS SHALL APPLY TO FLEXIBLE DUCTWORK, FITTINGS, FLEXIBLE CONNECTIONS, AND ASSOCIATED ACCESSORIES FOR THE APPROPRIATE STANDARDS SCHEDULED.

12 DUCTWORK SCHEDULE
NTS



9 LONGITUDINAL SEAMS - RECT. DUCT
NTS

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

SEAL

STATE OF NEW YORK · MICHAEL A. CHEROCK · PE 089748-1 · LICENSED PROFESSIONAL ENGINEER

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AE Works Project Number: 13035

Drawing Title
HVAC DETAILS

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 **Checked:** CJC **Drawn:** SPL

Project Number 528A5-13-532

Building Number #3

Drawing Number H501

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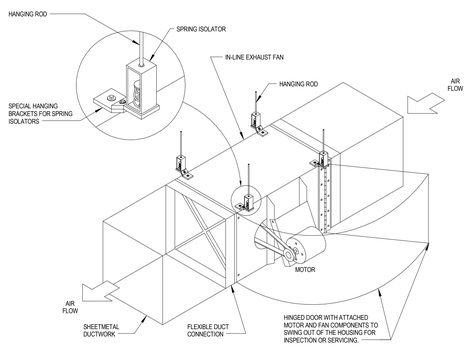
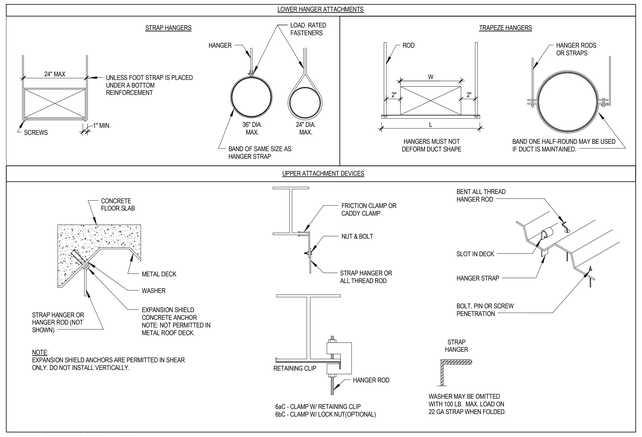
Office of Construction and Facilities Management

Department of Veterans Affairs

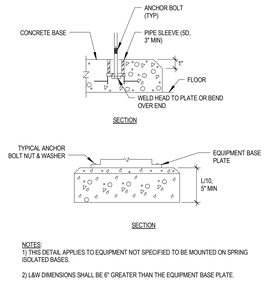
VA FORM 08-6231



1 IN-LINE EXHAUST FAN
NTS



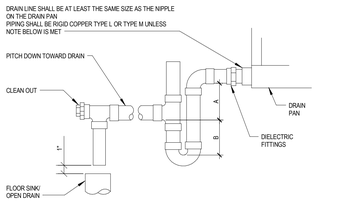
2 DUCT HANGERS
NTS



NOTES:
1) THIS DETAIL APPLIES TO EQUIPMENT NOT SPECIFIED TO BE MOUNTED ON SPRING ISOLATED BASES.

2) L&W DIMENSIONS SHALL BE 6" GREATER THAN THE EQUIPMENT BASE PLATE.

3 CONCRETE EQUIPMENT BASES
NTS



NOTE:
1. PROVIDE STRUCTURAL STEEL SUPPORT FOR EACH AHU. SUPPORT SHALL BE A MINIMUM HEIGHT SUCH THAT THE BOTTOM OF THE A/C CONDENSATE TRAP IS ABOVE THE FINISHED FLOOR.

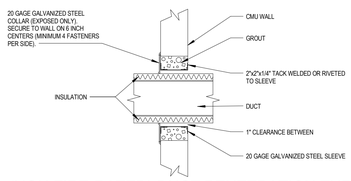
2. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.

3. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

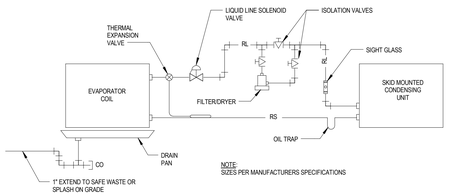
UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

4 FAN COIL UNIT DRAIN TRAP DETAIL
NTS

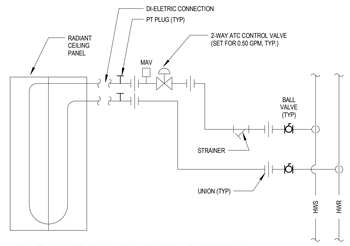


5 (NON FIRE-RATED) DUCT PENETRATION THRU WALL DETAIL
NTS

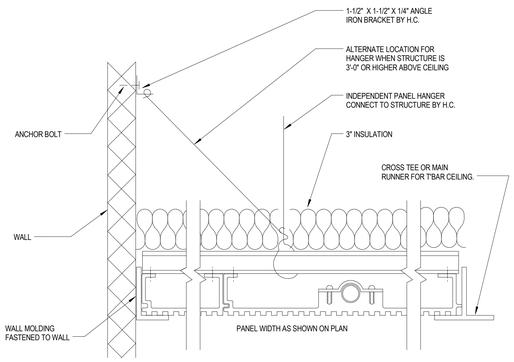


NOTE: MANUFACTURER TO PROVIDE RECOMMENDED PIPING LAYOUT FOR THEIR COMPONENTS AND EQUIPMENT.

6 TYPICAL REFRIGERANT PIPING DETAIL
NTS

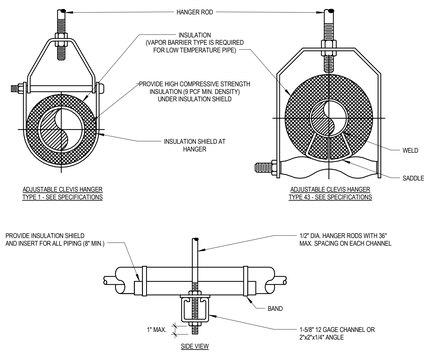


7 RADIANT PANEL PIPING DETAIL
NTS



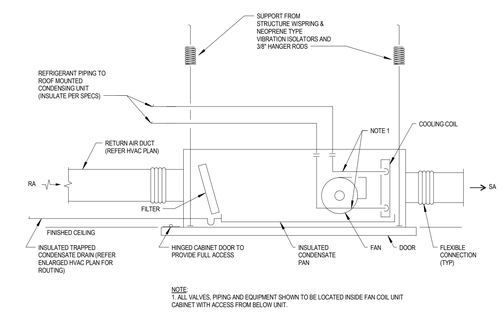
NOTES:
1. CROSS CHANNELS. FASTENERS, CLIPS, INSULATION, AND CRACKETS BY PANEL MANUFACTURER.
2. PROVIDE SUPPORT AS RECOMMENDED BY MANUFACTURER.

10 RADIANT CEILING PANEL DETAIL
1/8" = 1'-0"



MAXIMUM PIPE/TUBING SUPPORT SPACING																			
NOM. SIZE	IN. (MM)	THRU 3/4 THRU (20)	1 (25)	1 1/4 (32)	1 1/2 (40)	2 (50)	2 1/2 (65)	3 (75)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)	14 (350)	16 (400)	18 (450)	20 (500)	24 (600)
PIPE	FT. (M)	7 (2.1)	7 (2.1)	7 (2.1)	9 (2.7)	10 (3.0)	11 (3.4)	12 (3.7)	14 (4.1)	16 (4.9)	17 (5.2)	19 (5.8)	22 (6.7)	23 (7.0)	25 (7.6)	27 (8.2)	28 (8.5)	30 (9.1)	32 (9.6)
TUBING	FT. (M)	5 FT	6 (1.8)	7 (2.1)	8 (2.4)	8 (2.4)	9 (2.7)	10 (3.0)	12 (3.7)	13 (4.0)	14 (4.1)	16 (4.9)	-	-	-	-	-	-	-
		5 FT											-	-	-	-	-	-	-
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

8 PIPE HANGERS
NTS



NOTE:
1. ALL VALVES, PIPING AND EQUIPMENT SHOWN TO BE LOCATED INSIDE FAN COIL UNIT CABINET WITH ACCESS FROM BELOW UNIT.

9 FAN COIL UNIT (DX w/ELEC HEAT)
NTS

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions: | Date

CONSULTANTS:

SEAL

STATE OF NEW YORK · MICHAEL A. CHEROCK · PE 089748-1 · LICENSED PROFESSIONAL ENGINEER

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AE Works Project Number: 13035

Drawing Title
HVAC DETAILS

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 | **Checked:** CJC | **Drawn:** SPL

Project Number 528A5-13-532

Building Number #3

Drawing Number H502

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Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

DIFFUSERS, REGISTERS AND GRILLES

TAG	SYSTEM	AIRFLOW RANGE (CFM)	MODULE SIZE (IN x IN)	NECK SIZE (IN)	MAX NC LEVEL	MAX PD (IN WG)	OPPOSED BLADE DAMPER (Y/N)	MATERIAL	FINISH	NOTES
SD-1	SUPPLY	0-120	24 x 24	6"	30	0.1	Y	ALUMINUM, LOUVERED FACE	WHITE	1, 2, 3, 4
SD-2	SUPPLY	121-210	24 x 24	8"	30	0.1	Y	ALUMINUM, LOUVERED FACE	WHITE	1, 2, 3, 4
SD-3	SUPPLY	211-350	24 x 24	10"	30	0.1	Y	ALUMINUM, LOUVERED FACE	WHITE	1, 2, 3, 4
SD-4	SUPPLY	350-600	24 x 24	12"	30	0.1	Y	ALUMINUM, LOUVERED FACE	WHITE	1, 2, 3, 4
SD-5	DUCT MTD. SUPPLY	SEE PLANS	8 x 6	8"x6"	20	0.1	Y	ALUMINUM	WHITE	1, 2, 3, 4, 5
SD-6	SUPPLY	0-120	12 x 12	6"	30	0.1	Y	ALUMINUM, LOUVERED FACE	WHITE	1, 2, 3, 4
RG-1	RETURN	0-300	24 x 24	12x12	30	0.1	Y	ALUMINUM, PERFORATED, FLUSH FACE	WHITE	1, 2, 3, 4, 5
RG-2	RETURN	301-805	24 x 24	16x16	30	0.1	Y	ALUMINUM, PERFORATED, FLUSH FACE	WHITE	1, 2, 3, 4, 5
EG-1	EXHAUST	0-300	8 x 8	8 x 8	30	0.1	Y	ALUMINUM, PERFORATED, FLUSH FACE	WHITE	1, 2, 3, 4, 5
EG-2	EXHAUST	0-100	8 x 6	8 x 6	30	0.1	Y	ALUMINUM, PERFORATED, FLUSH FACE	WHITE	1, 2, 3, 4, 5

NOTES:
1. PROVIDE LAY-IN MOUNTING FOR ACOUSTIC LAY-IN TILE CEILING AND SURFACE MOUNTING FOR DRYWALL, PLASTER AND OTHER CEILING TYPES OR WALLS.
2. COORDINATE DIFFUSER SIZE WITH CEILING GRID TBAR WIDTH.
3. PROVIDE DIRECTIONAL PATTERN DIFFUSERS AS SHOWN ON FLOOR PLANS.
4. COLOR SAMPLES TO BE PROVIDED TO THE ARCHITECT FOR APPROVAL PRIOR TO WORK COMMENCING.
5. PROVIDE SIDEWALL, ½" BLADE SPACING, 35° DEFLECTION, LONG BLADES RETURN GRILLE.

EXHAUST FAN SCHEDULE

MARK	TYPE/SERVICE	AIRFLOW CFM	ESP	SONES	ELECTRICAL VOLTAGE	PHASE	WATTS	AMP	RPM	REMARKS
EF-1	INLINE CENT.	460	0.75	3.4	120	1	355	3.77	1600	

NOTES:
1. ALL WIRING REQUIRED FOR FANS SHALL BE BY DIVISION 26.
2. INTEGRAL BACKDRAFT DAMPER
3. WALL CAP
4. UNIT MOUNTED DISCONNECT SWITCH

INDOOR VRF UNITS

UNIT NO. FCU-	TYPE	SERVICE	AIRFLOW (1) (CFM)	OA CFM	COOLING/HEATING: MIXED AIR EAT (°F) DB	WB	NOMINAL CAPACITY: COOLING (BTUH)	HEATING (BTUH)	PERFORMANCE DATA: COOLING TOTAL (BTUH)	COOLING SENSIBLE (BTUH)	HEATING (BTUH)	REFRIG. TYPE	SOUND PRESSURE (DBA)	ELECTRICAL: VOLT	PHASE	MCA	MOCP	EMERGENCY POWER (Y/N)	NOTES
1	CEILING-CONCEALED DUCTED	WAITING / STORAGE	350	80	75.4	65.1	12000	13,500	8000	5200	7700	410A	34	208	1	1.21	15	N	
2	CEILING-CONCEALED DUCTED	RECEPTIONIST / STORAGE	470	35	74.5	63.3	12000	13,500	9800	7500	1500	410A	34	208	1	1.21	15	N	
3	CEILING-CONCEALED DUCTED	EXAM 1 & 2	440	70	76.2	65.5	12000	13,500	10500	6900	8200	410A	34	208	1	1.21	15	N	
4	CEILING-CONCEALED DUCTED	EXAM 3 / ADMIN OFFICE	425	70	76.2	65.3	12000	13,500	10200	6700	8000	410A	34	208	1	1.21	15	N	
5	CEILING-CONCEALED DUCTED	WORKROOM	570	50	76.2	64.4	15000	17,000	12000	8600	10400	410A	34	208	1	1.45	15	N	
6	CEILING-CONCEALED DUCTED	GROUP ROOM	680	85	75.5	64.0	18000	20,000	15700	10600	14300	410A	35	208	1	1.56	15	N	
7	CEILING-CONCEALED DUCTED	EXAM 4 & 5	360	70	76.6	65.5	12000	13,500	9600	5900	9900	410A	34	208	1	1.21	15	N	
8	CEILING-CONCEALED DUCTED	CORRIDOR / TOILET	360	0	73.5	70.1	6000	6,700	5800	2200	3500	410A	29	208	1	1.05	15	N	

NOTES:
1. AIRFLOW RATINGS ARE BASED ON HI FAN SPEED AND 0.50" ESP.
2. PROVIDE WITH FILTER BOX ON RETURN CONNECTION. PROVIDE COMPATIBLE MODEL FILTER BOX PER MANUFACTURER'S RECOMMENDATIONS.
3. UNIT MOUNTED DISCONNECTS BY MECHANICAL CONTRACTOR.
4. ALL CEILING-CONCEALED DUCTED UNITS PROVIDED WITH INTEGRAL FACTORY INSTALLED CONDENSATE PUMP. PROVIDE WITH FLOAT SWITCH (BY CONTROLS CONTRACTOR). INTERLOCK TO SHUT DOWN FAN ON HIGH LIMIT ALARM.

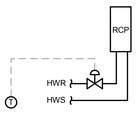
OUTDOOR VRF UNIT

UNIT NO. CU-	SERVICE	LOCATION	CAPACITY: COOLING TOTAL (BTUH)	COOLING SENSIBLE (BTUH)	HEATING (BTUH)	DESIGN COOLING OUTDOOR TEMP (F)	DESIGN HEATING OUTDOOR TEMP (F)	RATING: EER	IEER	COP	SIMULTANEOUS COOLING & HEATING EFFICIENCY	REFRIG. TYPE	NOMINAL SIZE H x W x D (IN)	NET WEIGHT (LBS)	MAX SOUND PRESSURE LEVEL (DB)	ELECTRICAL: VOLT	PHASE	MCA	MOCP	EMERGENCY POWER (Y/N)	NOTES
1	FCU-1 THRU 8	GROUND	96,000	87,400	108,000	95	0	12.2	19.7	3.64	17.40 / 23.50	410A	65 x 48 x 30	550	58	208	3	34	40	N	

NOTES:
1. PROVIDE UNIT WITH FACTORY MOUNTED STARTER. WALL MOUNTED DISCONNECT IS PROVIDED BY ELECTRICAL CONTRACTOR.
2. UNIT CAPABLE OF PROVIDING SIMULTANEOUS COOLING AND HEATING.
3. UNIT SHALL BE 100% CAPACITY OPERABLE TO -10 DEGREES. PROVIDE WITH LOW AMBIENT KIT.
4. PROVIDE ALL UNITS WITH FILTER DRYERS, VALVES, EXPANSION VALVES, ETC AS REQUIRED BY DETAILS AND MANUFACTURER RECOMMENDATIONS.
5. PROVIDE FAN SPEED CONTROLLED CONDENSER.
6. PROVIDE WITH REFRIGERANT LINE SET AS REQUIRED WITH ALL REFRIGERANT CONTROLS.
7. PROVIDE SUPPORT STAND WITH WITH BARS, CLAMPS AND CROSS BARS WITH FEET. PROVIDE NON-SKID ISOLATION PAD.
8. COMPRESSOR OPERATING RANGE = 8% TO 100%.

REFRIGERANT CONTROLLER UNITS

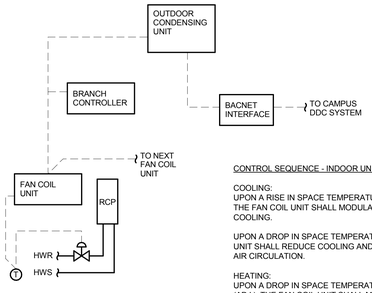
UNIT NO. BC-	SERVICE	LOCATION	MAX CONNECTED FOR ALL BRANCHES (BTUH)	NUMBER OF BRANCHES	REFRIG. TYPE	NOMINAL SIZE H x W x D (IN)	NET WEIGHT (LBS)	ELECTRICAL: VOLT	PHASE	MCA	MOCP	EMERGENCY POWER (Y/N)	NOTES
1	FCU-1 THRU 8	CORRIDOR CEILING	108,000	8	410A	11.5 x 43.75 x 20.5	140	208	1	1.04	15	N	DISCONNECT SWITCH



CONTROL SEQUENCE - RADIANT CEILING PANEL :

UPON A DROP IN SPACE TEMPERATURE BELOW THE SET POINT (70 DEG F (ADJ.)), THE HOT WATER CONTROL VALVE SHALL MODULATE OPEN TO THE RADIANT CEILING PANEL (RCP). UPON A RISE IN SPACE TEMPERATURE ABOVE THE SET-POINT, THE VALVE SHALL MODULATE CLOSED.

1 PATIENT TOILET ROOM HEATING CONTROL DIAGRAM
NO SCALE



CONTROL SEQUENCE - INDOOR UNIT WITH RADIANT CEILING PANEL :

COOLING:
UPON A RISE IN SPACE TEMPERATURE ABOVE THE SET POINT (72 DEG F (ADJ.)), THE FAN COIL UNIT SHALL MODULATE ITS REFRIGERANT CIRCUIT TO PROVIDE COOLING.

UPON A DROP IN SPACE TEMPERATURE BELOW THE SET POINT, THE FAN COIL UNIT SHALL REDUCE COOLING AND THE FAN SHALL REMAIN ON TO MAINTAIN AIR CIRCULATION.

HEATING:
UPON A DROP IN SPACE TEMPERATURE BELOW THE SET POINT (70 DEG F (ADJ.), THE FAN COIL UNIT SHALL MODULATE ITS REFRIGERANT CIRCUIT TO PROVIDE HEATING. UPON A FURTHER DROP IN SPACE TEMPERATURE, THE HOT WATER CONTROL VALVE SHALL MODULATE OPEN TO THE RADIANT CEILING PANEL.

UPON A RISE IN SPACE TEMPERATURE ABOVE THE SET-POINT, THE REVERSE SHALL OCCUR.

2 TYPICAL ROOM CONTROL DIAGRAM
NO SCALE

RADIANT CEILING PANELS (HOT WATER)

UNIT NO. RCP-	SERVICE/LOCATION	CAPACITY (MBH)	GPM	MAX WPD (FT)	EWT DB (°F)	LWT DB (°F)	PANEL WIDTH (IN)	TOTAL PANEL LENGTH (1) (FT - IN)	NOTES
1	WAITING ROOM	2.4	0.5	0.25	180	160	24	6'-0"	
2	WAITING ROOM	2.0	0.5	0.25	180	160	24	5'-0"	
3	PATIENT TOILET	1.7	0.5	0.25	180	160	24	4'-0"	
4	EXAM ROOM 5	2.8	0.5	0.25	180	160	24	7'-0"	
5	EXAM ROOM 4	2.8	0.5	0.25	180	160	24	7'-0"	
6	GROUP ROOM	3.7	0.5	0.25	180	160	24	10'-0"	
7	GROUP ROOM	3.7	0.5	0.25	180	160	24	10'-0"	
8	WORKROOM	3.1	0.5	0.25	180	160	24	8'-0"	
9	WORKROOM	3.1	0.5	0.25	180	160	24	8'-0"	
10	ADMIN OFFICE	1.5	0.5	0.25	180	160	24	4'-0"	
11	EXAM ROOM 3	2.1	0.5	0.25	180	160	24	5'-0"	
12	EXAM ROOM 2	2.0	0.5	0.25	180	160	24	5'-0"	
13	EXAM ROOM 1	1.9	0.5	0.25	180	160	24	5'-0"	

NOTES:
1. CONTRACTOR TO COORDINATE PANEL DIMENSIONS WITH REFLECTED CEILING PLAN.
2. WHERE PANELS ARE SHOWN IN CONTINUOUS APPLICATION, PANELS SHALL BE CONTINUOUS WITH END CAPS BETWEEN MODULES. END CAPS ONLY AT END OF THE ASSEMBLY.
3. PROVIDE DOUBLE OR 4 PASS PANELS SO THAT PIPING CONNECTIONS ARE ON THE SAME END OF THE PANEL.

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions: | Date

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Drawing Title: EQUIPMENT SCHEDULES AND CONTROL DIAGRAMS

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

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Project Number: 528A5-13-532

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Dwg. 19 of 25

Office of Construction and Facilities Management
Department of Veterans Affairs

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ELECTRICAL SYMBOLS LEGEND

FX	FLUORESCENT STRIP FIXTURE, LENGTHS AS SHOWN ON DRAWINGS (2',3'4'8'), LAMPS AND ACCESSORIES PER FIXTURE SCHEDULE.	XX	DUPLEX RECEPTACLE IN A 4" SQUARE BOX WITH PLASTER RING (IN DRYWALL) SINGLE GANG BOX IN MASONRY. WP=WEATHERPROOF, SS=SURGE SUPPRESSOR, GFI= GROUND FAULT INTERRUPTER), TR=TAMPER RESISTANT
FX	FLUORESCENT SURFACE MOUNTED FIXTURE, LENGTHS AS SHOWN ON DRAWINGS (2',3'4'8'), LAMPS AND ACCESSORIES PER FIXTURE SCHEDULE.	XX	DOUBLE DUPLEX RECEPTACLE IN A 4" SQUARE BOX.WP=WEATHERPROOF, SS=SURGE SUPPRESSOR, GFI= GROUND FAULT INTERRUPTER), TR=TAMPER RESISTANT
FX	FLUORESCENT INDUSTRIAL FIXTURES WITH WIRE GUARD, LENGTHS AS SHOWN ON DRAWINGS (4',8') AND ACCESSORIES PER FIXTURE SCHEDULE.		SINGLE RECEPTACLE IN A 4" SQUARE BOX WITH PLASTER RING (IN DRYWALL) SINGLE GANG. BOX IN MASONRY.
FX	FLUORESCENT PENDANT FIXTURE, LENGTHS AS SHOWN ON DRAWINGS (4',8',12') AND ACCESSORIES PER FIXTURE SCHEDULE. (Y=4',8',12')	50A	SPECIAL RECEPTACLE IN A 4" SQUARE BOX WITH NEMA CONFIGURATION INDICATED.
FX	FLUORESCENT WALL MOUNTED FIXTURE, LENGTHS AS SHOWN ON DRAWINGS (2',4',8') AND ACCESSORIES PER FIXTURE SCHEDULE.	FF	FLUSH FLOOR MOUNT RECEPTACLE IN A COMBINATION POKE THRU DEVICE.
FX	FLUORESCENT RECESSED MOUNTED TROFFER, (1X4, 2X2, 2X4) AND ACCESSORIES PER FIXTURE SCHEDULE.		RECEPTACLE MOUNTED IN MULTI-SERVICE FLOOR BOX
FX	FLUORESCENT SURFACE MOUNTED TROFFER, (1X4, 2X2, 2X4) AND ACCESSORIES PER FIXTURE SCHEDULE.		DISCONNECT SWITCH (REFER TO TAG FOR SWITCH DETAILS)
FX	RECESSED DOWNLIGHT, ACCESSORIES PER FIXTURE SCHEDULE.	VFD	VARIABLE FREQUENCY DRIVE
FX	SURFACE MOUNTED, DRUM, DOWNLIGHT OR DECORATIVE FIXTURE, ACCESSORIES PER FIXTURE SCHEDULE.	XX XX	MOTOR CONNECTION XX=HORSE POWER
FX	TRACK LIGHTING WITH TRACK HEADS AS SHOWN, PROVIDE LENGTH AS SHOWN ON DRAWINGS, ACCESSORIES PER FIXTURE SCHEDULE.	MD	MOTORIZED DAMPER
FX	RECESSED WALL WASH FIXTURE, AS SHOWN ON DRAWINGS, ACCESSORIES PER FIXTURE SCHEDULE.		DOUBLE GANG BACKBOX W/ SINGLE GANG DEVICE RING. 1 1/4" EMT CONDUIT W/ PULL STRING TO ABOVE ACCESSIBLE CEILING
FX	PENDANT MOUNTED DECORATIVE FIXTURE, ACCESSORIES PER THE FIXTURE SCHEDULE.	X	PUSHBUTTON: E=EMERGENCY STOP, A=AUTO DOOR PUSH BUTTON, M = MOTION ACTIVATED
FX	WALL SCONCE, OR WALL MOUNTED FIXTURE, ACCESSORIES PER THE FIXTURE SCHEDULE.	EXIST / NEW	PANEL BOARD - SURFACE MOUNTED
EX	LED EXIT SIGN, WITH OR WITHOUT EMERGENCY HEADS, AND BATTERY BACKUP. ACCESSORIES PER THE FIXTURE SCHEDULE.		PANEL BOARD - FLUSH MOUNTED
	BATTERY PACK EMERGENCY LIGHT. ACCESSORIES PER THE FIXTURE SCHEDULE.	PP	OCCUPANCY SENSOR POWER PACK, INSTALL IN A JUNCTION BOX ABOVE WALL SWITCH.
OS X, OS X	CEILING MOUNTED OR WALL MOUNTED OCCUPANCYSENSOR, X INDICATES: D=DUAL TECHNOLOGY,P=PASSIVE INFRARED, U=ULTRA SONIC, V=VACANCY SENSOR	OS	DAYLIGHT SENSOR OR ON/OFF PHOTOCELL
X	WALL SWITCH, CONTROL: X= 3: 3 WAY, 4: 4 WAY, P: PILOT LIGHT, M: MOTOR SWITCH, T: TIMER, LV: LOW VOLTAGE (REFER TO LIGHTING DETAILS FOR BUTTON TYPES)		
X	WALL BOX SWITCH OCCUPANCY SENSOR, X=D1=SINGLE BUTTON DUAL TECH, D2=DOUBLE BUTTON DUAL TECH, V1=SINGLE BUTTON VACANCY, V2=DOUBLE BUTTON VACANCY		

NOTES:
1. LIGHT FIXTURES SHOWN HALF-SHADED SHALL BE CONNECTED TO THE NORMAL/EMERGENCY CIRCUIT OR PROVIDED WITH AN EMERGENCY BATTERY BALLAST. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICS ON THE BATTERY BALLAST.
2. THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

GENERAL SYMBOLS LEGEND

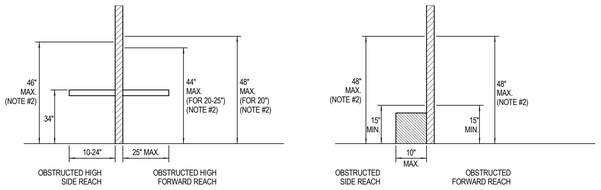
2	DRAWING KEYNOTE		INDICATED MOUNTED ABOVE COUNTERTOP (REFER TO STANDARD MOUNTING HEIGHTS DETAIL ON THIS SHEET)
2	EQUIPMENT TAG		EXISTING TO REMAIN NEW WORK DEMOLITION
2	REVISION TRIANGLE WITH REVISION CLOUD	X Y Z	MECHANICAL EQUIPMENT TAG: X= EQUIPMENT NAME Y= CIRCUIT NUMBER Z= PANEL NAME
	GROUND PER NATIONAL ELECTRIC CODE	X Y Z	DISCONNECT SWITCH TAG: X= DISC TYPE (FUSED, NON-FUSED, OR CIRCUIT BREAKER) Y= AMPACITY OF SWITCH Z= NEMA TYPE
	BOND OR TAP PER THE NATIONAL ELECTRIC CODE	X Y	ELECTRICAL EQUIPMENT TAG: X= DEVICE TYPE (PANELBOARD,TRANSFORMER,SWITCHBOARD) Y= DEVICE NAME
	ABOVE GRADE/SLAB HOMERUN	X - Y	RECEPTACLE TAG: X= PANEL NAME Y= CIRCUIT NUMBER
2 H 2	JUNCTION BOX - WALL MOUNTED JUNCTION BOX - CEILING OR EQUIPMENT MOUNTED	X Y	LIGHT FIXTURE TAG: X= FIXTURE TYPE Y= SWITCH DESIGNATION

NOTE:
THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

STANDARD MOUNTING HEIGHTS

CEILING	RECESSED LIGHTING FIXTURES, CEILING MOUNTED RECEPTACLES, INDICATING LIGHTS, ETC.
7'-0" A.F.F.	WALL MOUNTED LIGHTS IN STAIRS, MECH ROOMS, ETC.
6'-8" A.F.F.	TOP MOST PORTION OF OPERATING HANDLE OF DISCONNECT SWITCHES / CIRCUIT BREAKERS
6'-0" A.F.F.	TOP OF PANELBOARDS (=6'-0" TALL)
4'-0" A.F.F.	WALL SWITCHES, THERMOSTATS, CONTROL DEVICES, TO TOP OF BOX
3'-6" A.F.F.	ABOVE COUNTER DEVICES, GFI RECEPTACLES IN RESTROOMS.
1'-5" A.F.F.	RECEPTACLES, FURNITURE FEEDS
0'-0"	IN FLOOR JUNCTION BOXES FLUSH TO FINISHED FLOOR (FF)

1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
3. COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH ARCHITECT AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMITTAL.



NOTES:
1. THESE GUIDLINES SHALL BE USED FOR THE INSTALLATION OF THE FOLLOWING DEVICES:
   - WALL SWITCHES
   - CONTROL SWITCHES
   - RECEPTACLES
   - VISUAL DISPLAY TOUCH PANELS
2. NOTE THAT THIS HEIGHT IS TO THE TOP-MOST PART OF THE DEVICE THAT AN OCCUPANT REQUIRES ACCESS TO.

1 ADA INSTALLATION GUIDLINES

SCALE = NOT TO SCALE

ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
ABOVE FINISHED GRADE	AFG
ACCENT	ACC
ADJUSTABLE	ADJ
ALTERNATING CURRENT	AC
ALUMINUM	AL
AMERICAN WIRE GAUGE	AWG
AMMETER	AM
AMPERE	A/AMP
APPROXIMATE(LELY)	APPROX
ASYMMETRIC	ASY
ATTENUATION/CROSSTALK RATIO	ACR
AUTOMATIC TRANSFER SWITCH	ATS
BATTERY	BATT
BELOW FINISHED CEILING	BFC
BLACK	BLK
BRACKET	BRKT
BREAKER	BKR
CABINET	CAB
CABLE TELEVISION	CATV
CEILING	CLG
CIRCUIT	CIR/CKT
CIRCUIT BREAKER	CB
CLEAR	CLR
CLOSED CIRCUIT TELEVISION	CCTV
COLUMN	COL
COMMUNICATION	COMM
CONDUIT	C
COOL WHITE	CW
COPPER	CU
CURRENT LIMITING FUSE	CLF
CURRENT TRANSFORMER	CT
DECIBEL	DB
DEDICATED	DED
DIAMETER	DIA
DIRECT CURRENT	DC
DISCONNECT	DISC
DISTRIBUTION PANEL	DP
DOUBLE POLE DOUBLE-THROW	DPDT
DOWNLIGHT	DNLT
DRAWING	DWG
DUAL ELEMENT	DE
EACH	EA
ELECTRIC WATER COOLER	EWC
ELECTRICAL	ELEC
ELECTRICAL CONTRACTOR	EC
ELECTRICALLY OPERATED	EO
ELEVATOR	ELEV
EMERGENCY	E
	EMERG
ENERGY SAVING BALLAST	ESB
EQUIPMENT	EQP
EXHAUST FAN	EF
EXPLOSION PROOF	XP
ELECTRONICS INDUSTRY ASSOCIATION	EIA
FAR END CROSSTALK	FEXT
FIRE ALARM	FA
FIRE ALARM ANNUNCIATOR PANEL	FAAP
FIRE ALARM CONTROL PANEL	FACP
FIRE ALARM GRAPHIC	
ANNUNCIATOR PANEL	FAGP
FIXTURE	FIXT
FLOOR	FL
FLUORESCENT	FLOUR
FOOTCANDLES	FT
FULL LOAD AMPERES	FLA
FULL VOLTAGE NON-REVERSING	FVNR
GENERAL CONTRACTOR	GC
GENERATOR	GEN
GROUND	GND/G
GROUND FAULT INTERRUPTER	GFI
HAND HOLE	HH
HEATING VENTILATING AIR CONDITIONING	HVAC
HERTZ	HZ
HIGH INTENSITY DISCHARGE	HID
HIGH POWER FACTOR	HPF
HIGH VOLTAGE	HV
HORSEPOWER	HP
INCANDESCENT	INCAN
ISOLATED GROUND	IG
JUNCTION BOX	JB
KILOVAR (REACTANCE)	KVAR
KILOVOLT AMPERE	KVA
KILOWATT	KW
KILOWATT HOUR METER	KWH
INVERTER POWER SUPPLY	IPS
LIGHT	LT
LIGHTING	LTG
LIGHTNING ARRESTER	LA
LOW VOLTAGE	LV
LIGHT EMITTING DIODE	LED
MAIN CIRCUIT BREAKER	MCB
MAIN DISTRIBUTION PANEL	MDP
MAIN LUGS ONLY	MLO
MANHOLE	MH
MANUAL TRANSFER SWITCH	MTS
MANUFACTURER	MFR
MASTER ANTENNA TELEVISION	MATV
MECHANICAL CONTRACTOR	MC
MEDIUM VOLTAGE	MV
METAL HALIDE	MH
METAL-CLAD CABLE	MCC
MISCELLANEOUS	MISC
MOTOR CIRCUIT PROTECTOR	MCP
MOTOR CONTROL CENTER	MCC
MOTOR OPERATED DAMPER	MOD
MOUNTED	MTD
MOUNTING HEIGHT	MTG HT
MILLIMETER	MM
MILLIVOLT	MV
NATIONAL ELECTRIC MANUFACTURER ASSOCIATION	NEMA
NATIONAL ELECTRIC CODE	NEC
NEAR END CROSSTALK	NEXT
NIGHT LIGHT	NL
NORMALLY OPENED	NO
NOT AVAILABLE/NOT APPLICABLE	N/A
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
ON CENTER	OC
OVERHEAD	OH
OVERLOAD HEATER ELEMENT	OL
PANEL	PNL
PEWTER	PEW
PLYWOOD	PLY
POLE	P
POLYVINYL CHLORIDE	PVC
POTENTIAL TRANSFORMER	PT
POWER PANEL	PP
PULL BOX	PB
RAPID START	RS
RECEPTACLE	REC/RECPT
REFLECTOR	REFL
REQUIRED	REQ'D
RIGID GALVANIZED STEEL CONDUIT	RGS
ROOM	RM
ROUGH IN ONLY	RIO
SCHEDULE	SCHED/SCH
SINGLE POLE DOUBLE THROW	SPST
SINGLE POLE SINGLE THROW	SPDT
SOLID STATE BALLAST	SSB
SWITCH	SW
SWITCHBOARD	SWBD
SWITCHGEAR	SWGR
TELEPHONE	TELE
TRANSFORMER	XFMR
TWIN TUBE	TT
TYPICAL	TYP
TELECOMMUNICATIONS INDUSTRY ASSOCIATION TECHNICAL SERVICE BULLETIN	TIA TSB
TWISTED SHIELDED PAIR	TSP
UNSHIELDED TWISTED PAIR	UTP
UNDERWRITER'S LABORATORIES	UL
UNINTERRUPTIBLE POWER SUPPLY	UPS
UNLESS OTHERWISE NOTED	UON
VAPOR-PROOF	VP
VOLT	V
VOLTMETER	VM
WARM WHITE	WW
WATT	W
WEATHERPROOF	WP
WITH	W/
WITHIN	WI
WITHOUT	W/O

ELECTRICAL DEMOLITION ABBREVIATIONS

ETR	EXISTING TO REMAIN - DEVICE SHALL REMAIN IN WORKING ORDER.
RN	REMOVE AND REPLACE WITH NEW - EXISTING BACKBOX AND WIRING SHALL REMAIN. RECONNECT NEW DEVICE TO EXISTING CIRCUIT.
RR	REMOVE AND RELOCATE - DISCONNECT DEVICE, MODIFY AND EXTEND FEED TO NEW LOCATION.
RC	REMOVE COMPLETLY - REMOVE DEVICE, CONDUIT, AND WIRING BACK TO SOURCE.

GENERAL ELECTRICAL INSTALLATION NOTES:

1. THE FOLLOWING GENERAL NOTES AS LISTED BELOW SHALL APPLY TO ALL ELECTRICAL REQUIREMENTS AS INDICATED ON ALL E SERIES CONTRACT DRAWINGS.
2. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK.
3. DUE TO SCALE OF THE DRAWINGS, ALL ELECTRICAL DEVICE SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CONDUITS. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
4. COORDINATE WITH ALL TRADES AND SYSTEM INTEGRATORS ANY CONDITIONS RELATED TO THE INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
5. COORDINATE EXACT LOCATION OF ALL DESK OR COUNTER MOUNTED EQUIPMENT WITH OWNER AND ARCHITECT AND ALL AFFECTED TRADES PRIOR TO THE INSTALLATION OF ANY EQUIPMENT AND/OR BOXES.
6. COORDINATE EXACT LOCATION(S) OF ALL DATA AND TELEPHONE OUTLETS, ELECTRICAL RECEPTACLES WITH THE ARCHITECTURAL PLANS, FURNITURE PLANS AND ALL AFFECTED TRADES PRIOR TO INSTALLATION.
7. ALL CONDUITS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NFPA 70 AND PROJECT SPECIFICATIONS. ALL CONDUITS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
8. PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NEC REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.
9. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILINGS, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.
10. ALL PENETRATIONS OF WALLS AND/OR FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA REQUIREMENTS. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE-STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.
11. ALL EQUIPMENT ENCLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X STAINLESS STEEL AND RATED FOR THAT APPLICATION.
12. ALL DEVICES, COMPONENTS OR EQUIPMENT INSTALLED ON THE EXTERIOR OF THE FACILITY SHALL BE PROVIDED IN ACCORDANCE WITH ALL MANUFACTURERS' REQUIREMENTS TO ENSURE THE PROPER OPERATION WHEN EXPOSED TO THE ENVIRONMENTAL CONDITIONS AND/OR AVERAGE ANNUAL LOWEST TEMPERATURE THAT CAN BE ANTICIPATED FOR THE GEOGRAPHIC REGION OF THE FACILITY.
13. ALL INTERIOR AND/OR EXTERIOR COMPONENTS, DEVICES OR SYSTEMS EQUIPMENT EXPOSED TO THE GENERAL POPULATION SHALL BE INSTALLED IN SECURED EQUIPMENT ENCLOSURES WITH TAMPER SWITCHES AND INSTALLED IN SUCH A MANNER THAT RESISTS TAMPERING AND/OR REMOVAL WITHOUT THE USE OF SPECIALIZED TOOLS.
14. FOR EQUIPMENT INSTALLATIONS REQUIRING COORDINATION WITH OTHER TRADES THE CONTRACTOR SHALL PROVIDE ALL TEMPLATES, BACKBOXES AND EQUIPMENT ANCHOR BOLTS FOR MOUNTING OR FLUSH MOUNTING PREPARATION. (E.G. PEDESTALS OR OTHER DEVICES REQUIRING MOUNTING ON WALLS, CONCRETE PADS OR OTHER MATERIALS). COORDINATE DELIVERY OF TEMPLATES AND EQUIPMENT WITH ALL AFFECTED CONTRACTORS.
15. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE DOCUMENT SET, I.E. IF WORK IS SHOWN ON OTHER TRADE DRAWINGS AS "BY ELECTRICAL CONTRACTOR", THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THAT WORK.
16. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (LATEST VERSION BEING ENFORCED), AND ALL OTHER APPLICABLE CODES AND STANDARDS BEING ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
17. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS OR INSTRUCTIONS FOR CONSTRUCTION SAFETY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORKMAN'S OR TRANSIENT'S SAFETY, OR FOR THE ADEQUACY OF EQUIPMENT, BUILDING COMPONENTS, WORK AIDS, OR ANY NECESSITY TO WORK ON ENERGIZED ELECTRICAL COMPONENTS. FURTHER, NO SUPERINTENDENCE IS INCLUDED OR IMPLIED.
18. ALL SYSTEMS AND EQUIPMENT SHALL BE INSTALLED AND WIRED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
19. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE TESTED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
20. THE VERBIAGE ON THE DRAWINGS INDICATING TYPES OF MATERIALS TO BE ENCOUNTERED IS INTENDED TO AID THE ELECTRICAL CONTRACTOR IN UNDERSTANDING THE VARIOUS CONDITIONS LIKELY TO BE ENCOUNTERED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES OF MATERIALS REQUIRED TO COMPLETE THE PROJECT.
22. THE LOCATIONS OF EXISTING UTILITIES, STRUCTURE AND OTHER CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING ANY WORK.
23. THE ELECTRICAL CONTRACTOR SHALL COORDINATE CONDUIT ROUTING (PLAN AND ELEVATION) WITH THE LIGHTING (NEW AND EXISTING), CEILING ELEVATION, STRUCTURE, DUCTWORK, PIPING, ETC. REQUIRED FOR THE COMPLETION OF THE PROJECT. PRIOR TO INSTALLATION.
24. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NEW OPENINGS IN EXISTING PARTITIONS, EXTERIOR WALLS, FLOORS, AND ROOFS FOR THE INSTALLATION OF ANY NEW ELECTRICAL WORK. FURNISH AND INSTALL ALL REQUIRED LINTELS AND SLEEVES FOR THIS NEW WORK. ALL CONDUITS SHALL HAVE SLEEVES INSTALLED. ALL SLEEVES INSTALLED THROUGH EXTERIOR WALLS SHALL HAVE LINK SEALS INSTALLED.
25. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING MATERIALS THAT ARE TO REMAIN IN PLACE FROM DAMAGE. ANY DAMAGE TO EXISTING FINISHES, MATERIALS, ETC., SHALL BE REPLACED BY THE ELECTRICAL CONTRACTOR TO MATCH THE ADJACENT FINISH.
26. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE BUILDING IN WEATHERTIGHT AND WATERPROOF CONDITION THROUGHOUT THE DURATION OF THEIR WORK. DO NOT LEAVE HOLES THROUGH WALLS AND/OR ROOFS OPEN TO THE ELEMENTS WHEN NO WORK IS OCCURRING IN THOSE AREAS.
27. THE ELECTRICAL CONTRACTOR SHALL SECURE AND PROTECT THE BUILDING AND/OR WORK AREA WITH FIRE RETARDANT TEMPORARY PLYWOOD PARTITIONS (WITH LOCKING DOORS), ETC. CLOSE ALL EXISTING OPENINGS AS REQUIRED. COORDINATE THIS WORK WITH THE OWNERS REPRESENTATIVE PRIOR TO STARTING. IF TEMPORARY PARTITIONS IMPEDE THE FLOW OF EGRESS TO REQUIRED EGRESS DOORS AND STAIRS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE EXIT SIGNS, AND SIGNAGE INDICATING SUCH.
28. THE ELECTRICAL CONTRACTOR SHALL CAULK ALL JOINTS BETWEEN METAL FRAMES AND EXISTING CONDITIONS. THIS APPLIES TO BOTH INTERIOR AND EXTERIOR INSTALLATIONS.
29. THE DIMENSIONS SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE ELECTRICAL CONTRACTOR ONLY. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK.
30. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS CONCEALED UNLESS NOTED OTHERWISE. EXPOSED CONDUIT SHALL ONLY BE INSTALLED IN CHASES, EXPOSED CEILING AREAS, JANITOR CLOSETS, AND MECHANICAL/ELECTRICAL ROOMS.
31. ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED AND/OR BONDED PER THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE. PROVIDE ALL GROUNDING AND/OR BONDING COMPONENTS NOT EXPLICITLY SHOWN ON THE DOCUMENTS.
32. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES, INDICATING THE LOADS SERVED BY THE RESPECTIVE PANELS. AMEND AS REQUIRED FOR AS-BUILT CONDITIONS. PROVIDE ELECTRONIC VERSIONS OF THE PANELBOARD SCHEDULES FOR FUTURE USE BY THE OWNER.
33. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER PRIOR TO STARTING ALL PHASES OF THE PROJECT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER WHAT WORK, IF ANY, HAS TO BE COMPLETED DURING SECOND OR THIRD SHIFT.
34. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER CONNECTIONS TO KEEP AREAS LIP AND OPERATIONAL DURING THE CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH THE OWNER.
35. THE ELECTRICAL CONTRACTOR SHALL GENERATE A DETAILED METHOD OF PROCEDURE (MOP) DOCUMENT INDICATING HOW HE/SHE INTENDS TO PERFORM EACH STEP IN THE PROJECT. THIS MOP SHALL BE PRESENTED TO THE OWNER AND ENGINEER PRIOR TO STARTING THE PROJECT, FOR SIGN OFF. THE MOP MAY BE REVISED BASED ON CHANGES IN THE PROJECT CONSTRUCTION, ETC. AT ALL POINTS IN THE PROJECT THE OWNER SHALL BE MADE AWARE OF CHANGES TO THE MOP, AND A REVISED MOP SHALL BE PRESENTED TO THE OWNER AND ENGINEER FOR SIGN OFF.

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FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

SEAL

STATE OF NEW YORK · MICHAEL A. CHEROCK · PE 089748-1 · LICENSED PROFESSIONAL ENGINEER

ARCHITECTS/ENGINEERS:

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AE Works Project Number: 13035

Drawing Title
SCHEDULES, SYMBOLS & NOTES

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date:	Checked:	Drawn:
03 / 07 / 2014	JJD	JMZ

Project Number 528A5-13-532

Building Number #3

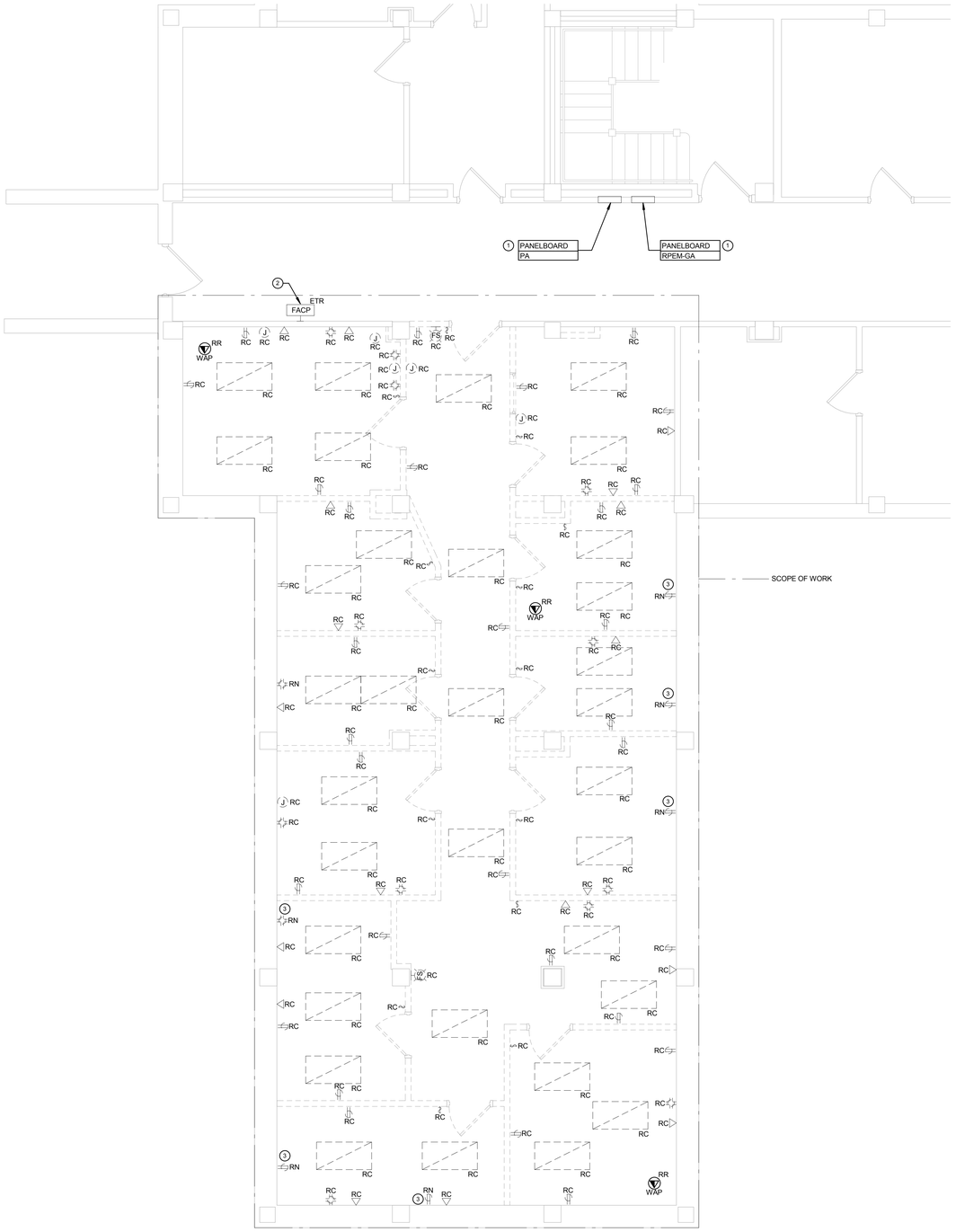
Drawing Number E001

Dwg. 20 of 25

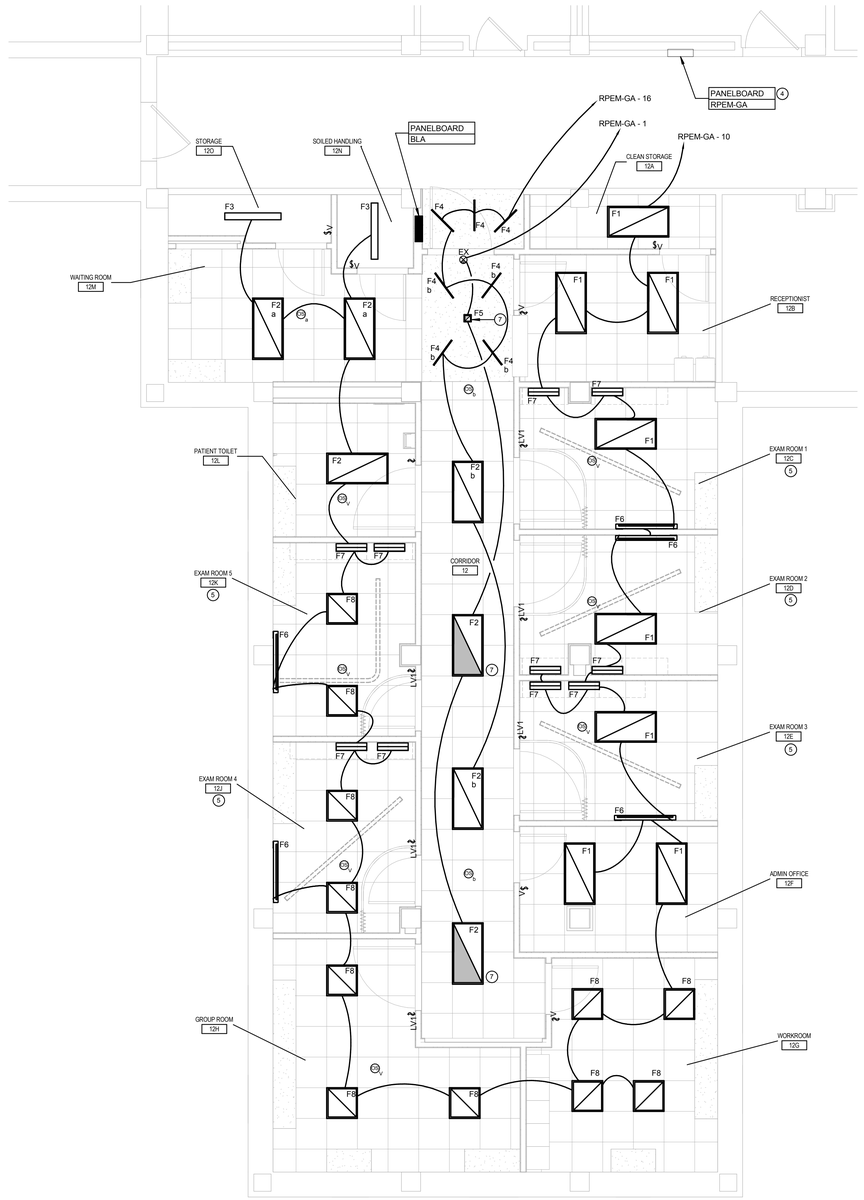
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



2 LIGHTING PLAN
1/4" = 1'-0"

ELECTRICAL DEMOLITION NOTES (THIS DRAWING)

1. EQUIPMENT SHOWN TO BE REMOVED IS DIAGRAMMATIC AND DOES NOT REPRESENT THE FULL SCOPE OF DEMOLITION WORK. REMOVE DEVICES SHOWN BACK TO SOURCE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL PROVIDE A MINIMUM TWO WEEKS WRITTEN NOTICE PRIOR TO ANY SHUT DOWN. NOTICE IS TO INCLUDE BUT IS NOT LIMITED TO THE LOCATION, PANELS, AND DURATION OF SHUT DOWN.
3. COTR SHALL HAVE RIGHT OF FIRST REFUSAL TO ANY EQUIPMENT, DEVICES, LUMINAIRES, ETC. DEMOLISHED FROM RENOVATION AREA PRIOR TO DISPOSAL.
4. PROTECT THE EXISTING EQUIPMENT THAT IS TO REMAIN IN PLACE FROM DIRT, DUST, OR DAMAGE DURING THE COURSE OF DEMOLITION.
5. THE EXISTING FIRE ALARM CIRCUITS SERVING AREAS OUTSIDE OF THE SCOPE OF WORK SHALL REMAIN OPERATIONAL DURING THE ENTIRE DURATION OF CONSTRUCTION.
6. PROVIDE TEMPORARY SMOKE OR HEAT DETECTION ON THE FLOOR DURING THE ENTIRE DURATION OF CONSTRUCTION. SMOKE DETECTION SHALL BE PROTECTED FROM CONSTRUCTION DUST DURING WORKING HOURS ONLY, IN AREAS WHERE CONSTRUCTION WORK IS GOING TO BE OCCURING.
7. REMOVE ALL LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, CONTROL DEVICES, WIRING AND CONDUIT IN THE AREA OF DEMOLITION UNLESS NOTED OTHERWISE. REMOVE ALL WIRING BACK TO THE PANELBOARD IT ORIGINATES FROM.
8. REMOVE ALL RECEPTACLES, AND OTHER MISCELLANOUS POWER CONNECTIONS TO EQUIPMENT IN THE AREA OF DEMOLITION SHOWN. REMOVE ALL CONDUIT AND WIRING BACK TO THE BRANCH PANELBOARD IT ORIGINATES FROM UNLESS NOTED OTHERWISE.

ELECTRICAL KEYNOTES (THIS DRAWING)

1. PANELBOARD IS EXISTING TO REMAIN.
2. EXISTING FIRE ALARM CONTROL PANEL IS EXISTING TO REMAIN.
3. EXISTING DEVICE BACKBOX AND CONDUIT IN WALL TO ABOVE ACCESSIBLE CEILING SHALL REMAIN AND BE REUSED. REMOVE WIRING, DEVICE, AND COVERPLATE AND REPLACE WITH NEW DEVICE, COVERPLATE, AND CIRCUIT TO NEW CIRCUIT INDICATED ON POWER PLAN ON DRAWING E102.
4. PANELBOARD RPEM-GA IS AN EXISTING NORMAL/EMERGENCY PANELBOARD.
5. REFER TO DETAIL 5 ON DRAWING E103. TYPE "F7" LIGHT FIXTURE SHALL NOT BE CONNECTED TO THE CEILING MOUNTED OCCUPANCY SENSOR. IT SHALL BE CONTROLLED VIA FIXTURE MOUNTED OCCUPANCY SENSOR.
6. REFER TO DETAIL 4 ON DRAWING E103. TYPE "F7" LIGHT FIXTURE SHALL NOT BE CONNECTED TO THE CEILING MOUNTED OCCUPANCY SENSOR. IT SHALL BE CONTROLLED VIA FIXTURE MOUNTED OCCUPANCY SENSOR.
7. FIXTURE IS FOR EMERGENCY EGRESS LIGHTING AND SHALL REMAIN ON AND NOT BE CONNECTED TO A SWITCH AND/OR SENSOR.

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CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title
BASEMENT DEMOLITION AND LIGHTING PLAN

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 **Checked:** JJD **Drawn:** JMZ

Project Number 528A5-13-532

Building Number #3

Drawing Number E100

Dwg. 21 **of** 25

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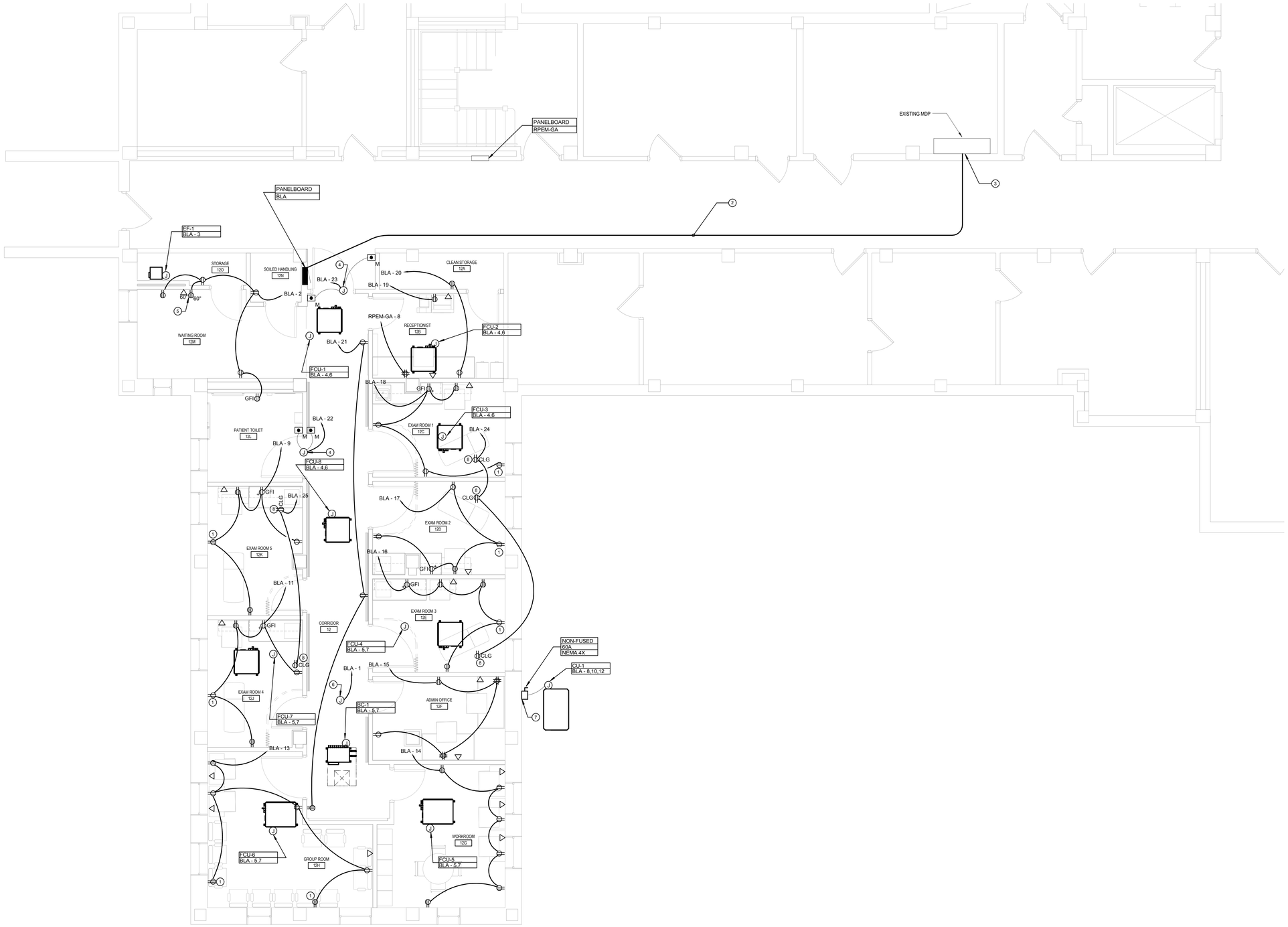

1 POWER PLAN
1/4" = 1'-0"

ELECTRICAL GENERAL NOTES (THIS DRAWING)

1. THE DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND BE INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

ELECTRICAL KEYNOTES (THIS DRAWING)

1. NEW RECEPTACLE AND COVER PLATE SHALL BE INSTALLED IN EXISTING BACK BOX. PROVIDE NEW WIRING TO CIRCUIT INDICATED.
2. PROVIDE (4) #4/0 & #4 GRD IN 2" CONDUIT FROM EXISTING SWITCHBOARD MDP TO NEW PANELBOARD "BLA".
3. PROVIDE A NEW 225A/3P CIRCUIT BREAKER TO FEED NEW PANELBOARD "BLA" IN EXISTING SPACE IN SWITCHBOARD MDP, MATCHING THE AIC RATING OF THE EXISTING CIRCUIT BREAKERS. PROVIDE FIREPROOF AROUND THE PENETRATION INTO ELECTRICAL ROOM.
4. JUNCTION BOX FOR POWER CONNECTION TO AUTOMATIC DOOR. COORDINATE SWITCH LOCATIONS PRIOR TO ROUGH-IN.
5. PROVIDE A RECESSED TV BOX FOR POWER/DATA/TV CONNECTIONS BEHIND WALL MOUNTED FLAT PANEL TV.
6. JUNCTION BOX FOR POWER CONNECTION TO HVAC CONTROLS.
7. SEAL PENETRATION THROUGH WALL FOR FEED TO CU-1.
8. CEILING MOUNTED RECEPTACLE FOR POWER TO LIFT. COORDINATE LOCATION OF CONNECTION POINT PRIOR TO ROUGIN.

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AE Works Project Number: 13035

Drawing Title: BASEMENT POWER PLAN

Approved: Project Director

Project Title: Renovate B3 Basement for Acupuncture / Chriopractic Services at the Canandaigua VA Medical Center

Location: 400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014 | Checked: JJD | Drawn: JMZ

Project Number: 528A5-13-532

Building Number: #3

Drawing Number: E200

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Department of Veterans Affairs

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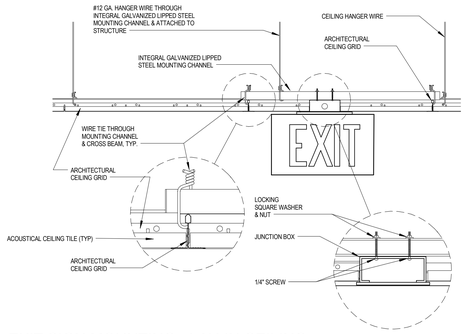
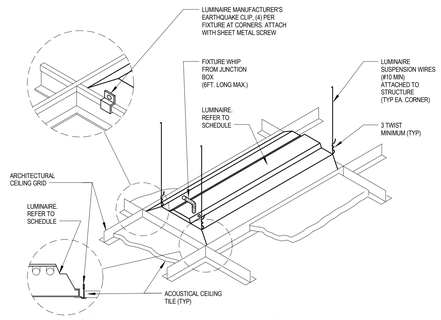
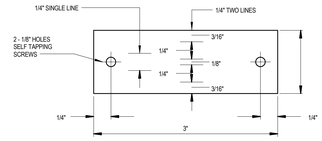


1 EXIT SIGN MOUNTING - LAY-IN CEILING
N.T.S.



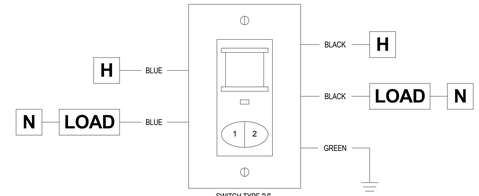
2 LUMINAIRE MOUNTING - LAY-IN CIELING
N.T.S.



NOTES:

1. BLACK MICARTA WITH WHITE ENGRAVED LETTERS, 3/8" HIGH
2. FASTEN TO EQUIPMENT WITH SELF TAPPING SCREWS.
3. PROVIDE NAMEPLATES FOR THE FOLLOWING:
   A. PANELS, MDP POSITIONS, OVENS, COOLERS
   B. FUSED SAFETY SWITCHES, STARTERS, CONTROL PANELS
   C. CONTROL DEVICES OUT OF SIGHT OF CONTROLLED EQUIPMENT
   D. ALL CONTROL DEVICES, SWITCH AND PILOT LIGHTS, REMOTE SWITCHES, ETC.
4. SUBMIT LISTING OF NAMEPLATES FOR APPROVAL.

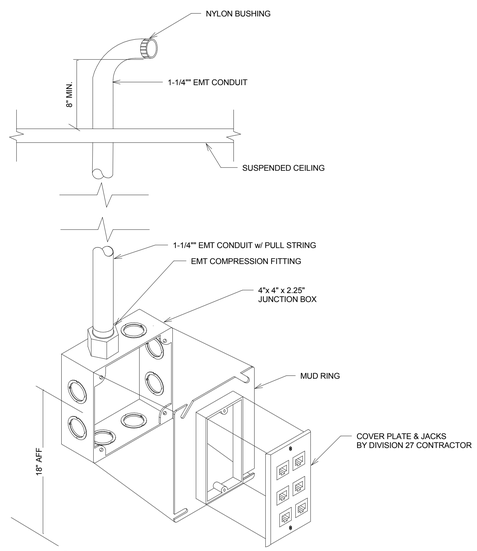
3 NAME PLATE DETAIL
N.T.S.



SWITCH TYPE "V"
(2-POLE VACANCY SENSOR)

BUTTON 1 - 100% LIGHT
BUTTON 2 - 50% LIGHT

4 TYPICAL OFFICE WALL SENSOR DETAIL
SCALE = NTS



6 DATA OUTLET ROUGH-IN DETAIL
N.T.S.

Branch Panel: BLA

Location:
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: MATCH UPSTREAM BREAKER
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
PANELBOARD MUST BE A SINGLE TUB STYLE

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HVAC Controls - Chiro Wing	20 A	1	500 VA	1080...					1	20 A	Receptacle - Chiro Wing	2
3	EF- 1 - Chiro Wing	20 A	1			453 VA	488 VA			2	20 A	FCU - Chiro Wing	4
5	FCU - Chiro Wing	20 A	2					674 VA	488 VA	--	--	--	6
7	--	--	--	674 VA	4080...					3	50 A	CU-1 - Chiro Wing	8
9	Receptacle - Chiro Wing	20 A	1			900 VA	4080...			--	--	--	10
11	Receptacle - Chiro Wing	20 A	1					900 VA	4080...	--	--	--	12
13	Receptacle - Chiro Wing	20 A	1	1080...	1080...					1	20 A	Receptacle - Chiro Wing	14
15	Receptacle - Chiro Wing	20 A	1			1200...	900 VA			1	20 A	Receptacle - Chiro Wing	16
17	Receptacle - Chiro Wing	20 A	1					900 VA	900 VA	1	20 A	Receptacle - Chiro Wing	18
19	Copier - Chiro Wing	20 A	1	1200...	680 VA					1	20 A	Receptacle - Chiro Wing	20
21	Receptacle - Chiro Wing	20 A	1			540 VA	1000...			1	20 A	Auto Door - Chiro Wing	22
23	Auto Door - Chiro Wing	20 A	1					1000...	540 VA	1	20 A	Lift Rec Exam Rooms - Chiro Wing	24
25	Lift Rec Exam Rooms - Chiro Wing	20 A	1	360 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Space	--	--	0 VA	0 VA					--	--	Space	50
51	Space	--	--			0 VA	0 VA			--	--	Space	52
53	Space	--	--					0 VA	0 VA	--	--	Space	54
55	Space	--	--	0 VA	0 VA					--	--	Space	56
57	Space	--	--			0 VA	0 VA			--	--	Space	58
59	Space	--	--					0 VA	0 VA	--	--	Space	60
			Total Load:	10734 VA		9561 VA		9482 VA					
			Total Amps:	90 A		80 A		79 A					

Legend:

Branch Panel: RPEM-GA

Location:
Supply From:
Mounting: Recessed
Enclosure: Type 1

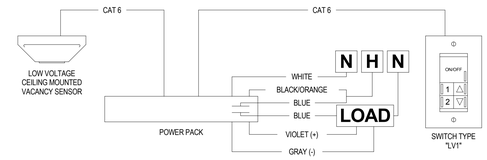
Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Type:
Mains Rating: 100 A
MCB Rating: 100 A

Notes:
PANELBOARD IS EXISTING TO REMAIN

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting - Chiro Wing	20 A	1	64 VA	0 VA					1	20 A	Existing Circuit	2
3	Existing Circuit	20 A	1			0 VA	0 VA			1	20 A	Existing Circuit	4
5	Existing Circuit	20 A	1					0 VA	0 VA	1	20 A	Existing Circuit	6
7	Existing Circuit	20 A	1	0 VA	420 VA					1	20 A	Receptacle - Chiro Wing	8
9	Existing Circuit	20 A	1			0 VA	572 VA			1	20 A	Lighting - Chiro Wing	10
11	Existing Circuit	20 A	1					0 VA	0 VA	1	20 A	Existing Circuit	12
13	Existing Circuit	20 A	1	0 VA	0 VA					1	20 A	Existing Circuit	14
15	Existing Circuit	20 A	1			0 VA	82 VA			1	20 A	Lighting - Chiro Wing	16
17	Existing Circuit	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Existing Circuit	20 A	1	0 VA	0 VA					1	20 A	Existing Circuit	20
21	Existing Circuit	20 A	1			0 VA	0 VA			1	20 A	Existing Circuit	22
23	Existing Circuit	20 A	1					0 VA	0 VA	1	20 A	Existing Circuit	24
25	Existing Circuit	20 A	1	0 VA	0 VA					1	20 A	Existing Circuit	26
27	Existing Circuit	20 A	1			0 VA	0 VA			1	20 A	Existing Circuit	28
29	Space	--	--					0 VA	0 VA	--	--	Space	30
31	Space	--	--	0 VA	0 VA					--	--	Space	32
33	Space	--	--			0 VA	0 VA			--	--	Space	34
35	Space	--	--					0 VA	0 VA	--	--	Space	36
			Total Load:	484 VA		654 VA		0 VA					
			Total Amps:	5 A		6 A		0 A					

Legend:



SEQUENCE OF OPERATION:
- ON/OFF SWITCH SHALL CONTROL ALL LIGHTS IN THE SPACE
- PRESET 1 SHALL CONTROL THE EXAM LIGHT "F1"
- PRESET 2 SHALL CONTROL THE WALL MOUNT LIGHT "F7"

NOTES:
- PRESET 1 SHALL BE LABELED "EXAM"
- PRESET 2 SHALL BE LABELED "WALL"

5 TYPICAL EXAM ROOM LIGHTING CONTROL DETAIL
SCALE = NTS

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	BASIS OF DESIGN		LAMP		DRIVER TYPE	WATTAGE	VOLTAGE	COMMENTS
			MANUFACTURER	SERIES	TYPE	LUMENS				
EX	CLEAR EDGE-LIT EXIT SIGN, MIRRORED BACK	UNIVERSAL	EXITRONIX	S902 SERIES	RED LED	N/A	---	5W	120/277V	COORDINATE CHEVRONS & DOUBLE OR SINGLE SIDED W/ FLOOR PLANS
F1	2x4 HIGH EFFICIENCY TROFFER, LOW GLARE, ANGLED ACRYLIC SIDES	RECESSED IN GRID	METALUX	ENCOUNTER SERIES	LED 4000K	5614	0-10v DIM	55W	120/277V	
F2	2x4 HIGH EFFICIENCY TROFFER, LOW GLARE, ANGLED ACRYLIC SIDES	RECESSED IN GRID	METALUX	ENCOUNTER SERIES	LED 4000K	3114	0-10v DIM	30W	120/277V	
F3	4' STRIP LIGHT	SURFACE	LITHONIA	ZL2 SERIES	LED 4000K	2000	0-10v DIM	32W	120/277V	
F4	2' LED SURFACE MOUNT	SURFACE	LIGHT TECHNOLOGIES	FLEXINEON WHITE 2X SERIES	LED 4000K	---	LV XFMR	14W	24V	PROVIDE 100W TRANSFORMER MOUNTED ABOVE NEAREST ACCESSIBLE CEILING
F5	4" SQUARE DOWNLIGHT	RECESSED IN DRYWALL	PORTFOLIO	LDSQA4/18 SERIES	LED 4000K	1800	0-10v DIM	32W	120/277V	
F6	4' WALL MOUNT DIRECT/INDIRECT	WALL MOUNTED	CORELITE	JWWM-2L SERIES	LED 4000K	1800	0-10v DIM	32W	120/277V	FIXTURE SHALL BE MOUNTED AT 7'-0" A.F.F.
F7	2' UNDERCABINET LIGHT	SURFACE	FAILSAFE	UCL SERIES	LED 4000K	2000	0-10v DIM	10W	120/277V	PROVIDE FIXTURE MOUNTED OCCUPANCY SENSOR FOR ON/OFF FUNCTION OF LIGHT. IF TWO FIXTURES THEY SHALL TURN ON TOGETHER
F8	2x2 HIGH EFFICIENCY TROFFER, LOW GLARE, ANGLED ACRYLIC SIDES	RECESSED IN GRID	METALUX	ENCOUNTER SERIES	LED 4000K	3466	0-10v DIM	34W	120/277V	

NOTES:

MECHICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

EQUIP TAG	FEEDERS				SCHEDULED LOAD				NOTES	CONNECTION DETAIL
	MOCP	VOLTS/PHASE	WIRE SIZE	CONDUIT	FLA	HP	MCA	WATTS		
CU-1	50A	208/3	(3) #6 & (1) #10 GRD	1"	---	---	34	---	1,2,4	---
EF-1	20A	120/1	(3) #6 & (1) #10 GRD	3/4"	---	---	3.77	---	1,2,3	---
BC-1	20A	208/1	(3) #6 & (1) #10 GRD	3/4"	---	---	1.04	---	1,2,3	---
FCU-1	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.21	---	1,2,3	---
FCU-2	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.21	---	1,2,3	---
FCU-3	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.21	---	1,2,3	---
FCU-4	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.21	---	1,2,3	---
FCU-5	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.45	---	1,2,3	---
FCU-6	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.56	---	1,2,3	---
FCU-7	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.21	---	1,2,3	---
FCU-8	20A	208/1	(2) #12 & (1) #12 GRD	3/4"	---	---	1.05	---	1,2,3	---

NOTES:
1. COORDINATE CONNECTIONS WITH ACTUAL UNIT PROVIDED.
2. REFER TO MECHANICAL EQUIPMENT SCHEDULES ON H SERIES DRAWINGS.
3. UNIT SHALL BE HAVE INTEGRAL DISCONNECT SWITCH (SUPPLIED BY H.C. AND WIRED BY E.C.)
4. UNIT SHALL HAVE EXTERNAL DISCONNECT SWITCH (SUPPLIED AND INSTALLED BY E.C.)

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CONSULTANTS:

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AE Works Project Number: 13035

Drawing Title
ELECTRICAL DETAILS & SCHEDULES

Approved: Project Director

Project Title:
Renovate B3 Basement for Acupuncture / Chiropractic Services at the Canandaigua VA Medical Center

Location:
400 Fort Hill Avenue, Canandaigua, NY 14424

Date: 03 / 07 / 2014
Checked: JJD
Drawn: JMZ

Project Number 528A5-13-532
Building Number #3
Drawing Number E500
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Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

TELECOMMUNICATIONS SYMBOL LEGEND

XX	WALL MOUNTED VOICE OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET		WALL MOUNTED SINGLE-FACE CLOCK
XX	CEILING MOUNTED VOICE OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET	D	WALL MOUNTED DOUBLE-FACE CLOCK
XX	FLOORBOX MOUNTED VOICE OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET		CLOCK FLUSH MOUNTED
FF XX	COMBINATION POKE-THRU MOUNTED VOICE OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET	TV	TV - CATV
XX	WALL MOUNTED VOICE/DATA OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET	M XX	MICROPHONE OUTLET F - FLOOR MOUNT C - CEILING MOUNT
XX	CEILING MOUNTED VOICE/DATA OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET	S	CEILING MOUNTED SPEAKER
XX	FLOORBOX MOUNTED VOICE/DATA OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET	S	WALL MOUNTED SPEAKER: WP= EXTERIOR W/ WEATHERPROOF ENCLOSURE
FF XX	COMBINATION POKE-THRU MOUNTED VOICE/DATA OUTLET* SUB TEXT REFERS TO CABLING CONFIGURATIONS REFER TO COMMUNICATIONS DETAIL SHEET	VC	SPEAKER VOLUME CONTROL DEVICE.
	DOUBLE GANG BACKBOX W/ SINGLE GANG DEVICE RING. 1 1/4" EMT CONDUIT W/ PULL STRING TO ABOVE ACCESSIBLE CEILING	I XX	INTERCOM STATION F = DOOR FRAME/MULLION MTG. L = LOCAL (STAND-ALONE) M = MASTER STATION P = PEDESTAL MOUNTED V = VIDEO CAPABLE VP = PEDESTAL MOUNTED W/VIDEO # = NUMBER OF BUTTONS NOTE: EXTERIOR STATIONS SHALL BE WEATHERPROOF
W	WIRELESS ACCESS POINT (DATA DROP AND JACK LOCATION)		
	THROUGH-WALL CONDUIT PENETRATION SLEEVE		
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	NCS	NURSE CALL MASTER STATION
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR	HMI	NURSE CALL TOUCH SCREEN TERMINAL
P XX	POWER POLE - DATA SIDE XX - NUMBER OF DROPS	P	NURSE CALL PATIENT STATION
A	PATIENT WANDERING/EMERGENCY DURESS SYSTEM ANTENNAS	N	NURSE CALL EMERGENCY STATION
		D	NURSE CALL DUTY STATION
		N XX	NURSE CALL DOME LIGHT D = CORRIDOR PATIENT ROOM Z = CORRIDOR ZONE

NOTES:

* REFER TO FLOOR PLANS FOR EXACT JACK LOCATION.

* COORDINATE THE INSTALLATION OF ALL DATA COMMUNICATION JACKS WITH THE LOCATION OF ALL 120 VAC CIRCUITS PROVIDED FOR THE PROPER CONNECTION OF ALL COMPUTERS, PRINTERS, COPIERS AND FAX MACHINES.

** REFER TO ELECTRICAL POWER DRAWINGS AND FURNITURE PLANS FOR EXACT DEVICE LOCATIONS.

WIREMOLD RACEWAY AND POWER POLES ARE TO BE PROVIDED BY FURNITURE CONTRACTOR, COORDINATE WITH ELECTRICAL CONTRACTOR AND FURNITURE SYSTEMS PROVIDER FOR ALL INSTALLATION REQUIREMENTS.

THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

GENERAL SYMBOLS LEGEND

PB	OUTDOOR PULLBOX	JB	JUNCTION BOX
	120 VAC EMERGENCY ELECTRICAL DUPLEX OUTLET	J 2	JUNCTION BOX / PULL BOX. STACKED FOR CONNECTION OF CELL EQUIPMENT
	120 VAC EMERGENCY ELECTRICAL QUADRAPLEX OUTLET	RIO	ROUGH IN ONLY
J	120 VAC EMERGENCY ELECTRICAL CONNECTION	#	SPECIFIC CONSTRUCTION ITEM NOTE INDICATOR
	ABOVE GRADE/SLAB HOMERUN		BELOW GRADE/SLAB ENCLOSED IN CONDUIT
	ABOVE GRADE/SLAB HOMERUN ENCLOSED IN CONDUIT		EQUIPMENT CABINET, RACK OR PANEL GROUND

NOTE:
THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

STANDARD MOUNTING HEIGHTS

CEILING	SPEAKERS, WIRELESS ACCESS POINTS. TV AND LCD PROJECTOR CONNECTIONS
8' A.F.G.	EXTERIOR SPEAKERS,
7'-5" A.F.F.	CLOCKS, COMBINATION CLOCKS/SPEAKERS, TRUMPET SPEAKERS
7'-0" A.F.F.	VISUAL NOTIFICATION DEVICES (CENTER OF DEVICE)
5'-6" A.F.F	TOP OF PLYWOOD TELEPHONE BACKBOARD
5'-4" A.F.F.	ANNUNCIATOR PANELS, CONTROL PANELS AND DISPLAYS, TACTILE DISPLAYS
4'-8" A.F.G. MAX	PEDESTAL MOUNT INTERCOM
4'-0" A.F.F.	"PS" TELEPHONE OUTLETS (TOP OF COIN SLOT), WALL MOUNTED TELEPHONE OUTLETS, INTERCOM STATIONS, CALL STATIONS, RESCUE ASSISTANCE PANELS (CENTER OF DEVICE)
1'-5" A.F.F.	DATA/TELEPHONE JACKS, LOW TELEVISION JACKS, MICROPHONE JACKS
0'-0"	IN FLOOR JUNCTION BOXES FLUSH TO FINISHED FLOOR (IFF) (DATA, TELEPHONE, MICROPHONE, MEDIA)

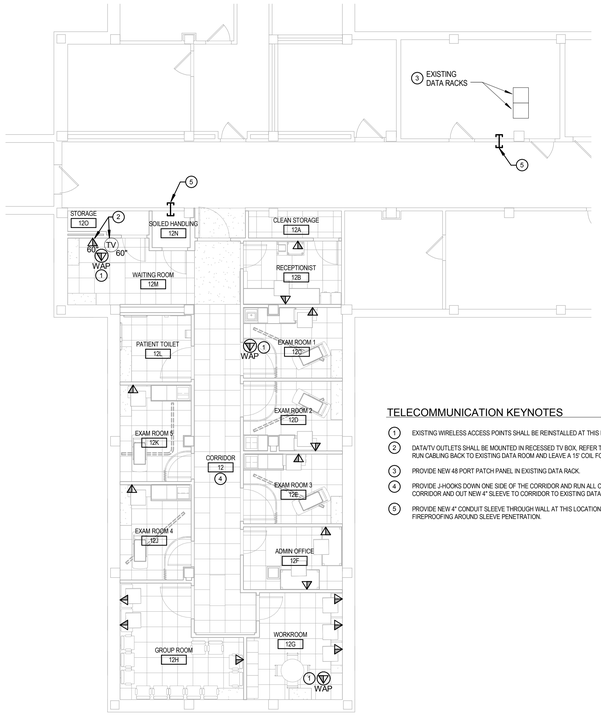
1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
3. COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH ARCHITECT AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMITTAL

ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
ABOVE FINISHED GRADE	AFG
ACCENT	ACC
ADJUSTABLE	ADJ
ALTERNATING CURRENT	AC
ALUMINUM	AL
AMERICAN WIRE GAUGE	AWG
AMMETER	AM
AMPERE	A/AMP
APPROXIMATELE(LY)	APPROX
ASYMMETRIC	ASY
ATTENUATION/CROSSTALK RATIO	ACR
AUTOMATIC TRANSFER SWITCH	ATS
BATTERY	BATT
BELOW FINISHED CEILING	BFC
BLACK	BLK
BRACKET	BRKT
BREAKER	BKR
CABINET	CAB
CABLE TELEVISION	CATV
CEILING	CLG
CIRCUIT	CIR/CKT
CIRCUIT BREAKER	CB
CLEAR	CLR
CLOSED CIRCUIT TELEVISION	CCTV
COLUMN	COL
COMMUNICATION	COMM
CONDUIT	C
COOL WHITE	CW
COPPER	CU
CURRENT LIMITING FUSE	CLF
CURRENT TRANSFORMER	CT
DECIBEL	DB
DEDICATED	DED
DIAMETER	DIA
DIRECT CURRENT	DC
DISCONNECT	DISC
DISTRIBUTION PANEL	DP
DOUBLE POLE DOUBLE-THROW	DPDT
DOWNLIGHT	DNLT
DRAWING	DWG
DUAL ELEMENT	DE
EACH	EA
ELECTRIC WATER COOLER	EWC
ELECTRICAL	ELEC
ELECTRICAL CONTRACTOR	EC
ELECTRICALLY OPERATED	EO
ELEVATOR	ELEV
EMERGENCY	E EMERG
ENERGY SAVING BALLAST	ESB
EQUIPMENT	EQIP
EXHAUST FAN	EF
EXPLOSION PROOF	XP
ELECTRONICS INDUSTRY ASSOCIATION	EIA
FAR END CROSSTALK	FEXT
FIRE ALARM	FA
FIRE ALARM ANNUNCIATOR PANEL	FAAP
FIRE ALARM CONTROL PANEL	FACP
FIRE ALARM GRAPHIC ANNUNCIATOR PANEL	FAGP
FIXTURE	FIXT
FLOOR	FL
FLUORESCENT	FLOUR
FOOTCANDLES	FT
FULL LOAD AMPERES	FLA
FULL VOLTAGE NON-REVERSING	FVNR
GENERAL CONTRACTOR	GC
GENERATOR	GEN
GROUND	GND/G
GROUND FAULT INTERRUPTER	GFI
HAND HOLE	HH
HEATING VENTILATING AIR CONDITIONING	HVAC
HERTZ	HZ
HIGH INTENSITY DISCHARGE	HID
HIGH POWER FACTOR	HPF
HIGH VOLTAGE	HV
HORSEPOWER	HP
INCANDESCENT	INCAN
ISOLATED GROUND	IG
JUNCTION BOX	JB
KILOVAR (REACTANCE)	KVAR
KILOVOLT AMPERE	KVA
KILOWATT	KW
KILOWATT HOUR METER	KWH
INVERTER POWER SUPPLY	IPS
LIGHT	LT
LIGHTING	LTG
LIGHTNING ARRESTER	LA
LOW VOLTAGE	LV
LIGHT EMITTING DIODE	LED
MAIN CIRCUIT BREAKER	MCB
MAIN DISTRIBUTION PANEL	MDP
MAIN LUGS ONLY	MLO
MANHOLE	MH
MANUAL TRANSFER SWITCH	MTS
MANUFACTURER	MFR
MASTER ANTENNA TELEVISION	MATV
MECHANICAL CONTRACTOR	MC
MEDIUM VOLTAGE	MV
METAL HALIDE	MH
METAL-CLAD CABLE	MCC
MISCELLANEOUS	MISC
MOTOR CIRCUIT PROTECTOR	MCP
MOTOR CONTROL CENTER	MCC
MOTOR OPERATED DAMPER	MOD
MOUNTED	MTD
MOUNTING HEIGHT	MTG HT
MILLIMETER	MM
MILLIVOLT	MV
NATIONAL ELECTRIC MANUFACTURER ASSOCIATION	NEMA
NATIONAL ELECTRIC CODE	NEC
NEAR END CROSSTALK	NEXT
NIGHT LIGHT	NL
NORMALLY OPENED	NO
NOT AVAILABLE/NOT APPLICABLE	N/A
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
ON CENTER	OC
OVERHEAD	OH
OVERLOAD HEATER ELEMENT	OL
PANEL	PNL
PEWTER	PEW
PLYWOOD	PLY
POLE	P
POLYVINYL CHLORIDE	PVC
POTENTIAL TRANSFORMER	PT
POWER PANEL	PP
PULL BOX	PB
RAPID START	RS
RECEPTACLE	REC/RECPT
REFLECTOR	REFL
REQUIRED	REQ'D
RIGID GALVANIZED STEEL CONDUIT	RGS
ROOM	RM
ROUGH IN ONLY	RIO
SCHEDULE	SCHED/SCH
SINGLE POLE DOUBLE THROW	SPST
SINGLE POLE SINGLE THROW	SPDT
SOLID STATE BALLAST	SSB
SWITCH	SW
SWITCHBOARD	SWBD
SWITCHGEAR	SWGR
TELEPHONE	TELE
TRANSFORMER	XFMR
TWIN TUBE	TT
TYPICAL	TYP
TELECOMMUNICATIONS INDUSTRY ASSOCIATION TECHNICAL SERVICE BULLETIN	TIA
TWISTED SHIELDED PAIR	TSB
UNSHIELDED TWISTED PAIR	TSP
UNDERWRITERS LABORATORIES	UTP
UNINTERRUPTIBLE POWER SUPPLY	UL
UNLESS OTHERWISE NOTED	UPS
VAPOR PROOF	UON
VOLT	VP
VOLTMETER	V
WARM WHITE	VM
WATT	WW
WEATHERPROOF	W
WITH	WP
WITHIN	W
WITHOUT	W/I
	W/O

GENERAL COMMUNICATIONS SYSTEM NOTES:

1. THE FOLLOWING GENERAL NOTES AS LISTED BELOW SHALL APPLY TO ALL COMMUNICATIONS SYSTEM REQUIREMENTS AS INDICATED ON ALL ET SERIES CONTRACT DRAWINGS.
2. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK.
3. DUE TO SCALE OF THE DRAWINGS, ALL COMMUNICATIONS DEVICE SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CABLING. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
4. COORDINATE WITH ALL TRADES AND SYSTEM INTEGRATORS ANY CONDITIONS RELATED TO THE INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
5. COORDINATE EXACT LOCATION OF ALL DESK OR COUNTER MOUNTED EQUIPMENT WITH OWNER AND ARCHITECT AND ALL AFFECTED TRADES PRIOR TO THE INSTALLATION OF ANY EQUIPMENT AND/OR CABLING.
6. COORDINATE EXACT LOCATION(S) OF ALL CEILING MOUNTED CABLE, CONDUITS, EQUIPMENT AND/OR DEVICES WITH ALL ARCHITECTURAL PLANS, REFLECTED CEILING PLANS AND ALL AFFECTED TRADES PRIOR TO INSTALLATION.
7. COORDINATE EXACT LOCATION(S) OF ALL DATA AND TELEPHONE OUTLETS, ELECTRICAL RECEPTACLES WITH THE ARCHITECTURAL PLANS, FURNITURE PLANS AND ALL AFFECTED TRADES PRIOR TO INSTALLATION.
8. ALL HORIZONTAL CATEGORY 6 UTP CABLE SHALL BE PLENUM RATED CABLE AND SHALL BE BUNDLED AND ROUTED THROUGH THE FACILITY AND SHALL TERMINATE AT THE NEAREST MDF/IDF EQUIPMENT RACKS. ALL HORIZONTAL CABLE BUNDLES SHALL NOT CONTAIN ANY AC CONDUCTING CABLING. ALL HORIZONTAL CABLE DROPS SHALL NOT EXCEED 294' FROM PATCH PANEL TO OUTLET TERMINATION AND SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. REFER TO RELATED SPECIFICATIONS SECTIONS FOR ADDITIONAL INFORMATION.
9. ALL FIBER OPTIC BACKBONE CABLING SHALL BE ROUTED THROUGH THE FACILITY VIA DEDICATED CONDUITS AND VERTICAL PIPES CHASES INSTALLED IN PROTECTIVE INNERDUCT CONDUIT SYSTEM AND AND SHALL TERMINATE AT ALL APPROPRIATE MDF/IDF EQUIPMENT RACKS. THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT, RACK SPACE REQUIREMENTS, WITH THE APPROPRIATE SYSTEM INTEGRATORS AND ARCHITECT. ALL FIBER OPTIC CABLING SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. REFER TO RELATED SPECIFICATIONS SECTIONS FOR ADDITIONAL INFORMATION.
10. ALL CONDUITS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NFPA 70 AND PROJECT SPECIFICATIONS. ALL CONDUITS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
11. ALL SYSTEM WIRING, CONDUITS AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND BY ALL IEEE, EIA, NEC AND MANUFACTURER'S REQUIREMENTS. ALL WIRING SHALL COMPLY WITH ALL STATE AND LOCAL ELECTRICAL CODES AND SHALL TEST FREE FROM ALL GROUNDS, SHORTS STRAY VOLTAGES AND EMI.
12. PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NEC REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.
13. PROPERLY GROUND ALL EQUIPMENT, RACKS, CABINET'S, CONDUITS AND CABLE SHIELDS IN ACCORDANCE WITH ALL REQUIREMENTS OF THE NFPA 70 AND EQUIPMENT MANUFACTURER. ALL EQUIPMENT AND COMMUNICATIONS CIRCUITS SHALL BE PROPERLY SURGE PROTECTED AND GROUNDED TO MINIMIZE DAMAGE DUE TO LIGHTENING STRIKES, SNEAK CURRENTS AND OTHER TRANSIENT VOLTAGE SPIKES. ALL SURGE PROTECTION AND GROUNDING SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF THE EQUIPMENT MANUFACTURER. NEC, IEEE AND TIA/EIA.
14. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILINGS, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES (LISTED) FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.
15. ALL PENETRATIONS OF WALLS AND/OR FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA REQUIREMENTS. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE-STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.
16. PROVIDE THE PROPER INTERFACES TO BUILDING FIRE ALARM, INTRUSION ALARM AND BUILDING AUTOMATION SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE LIFE SAFETY CODES AND MANUFACTURER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. COORDINATE WITH THE FIRE ALARM SYSTEM PROVIDER FOR ALL REQUIRED SYSTEM INTEGRATION REQUIREMENTS.
17. ALL EQUIPMENT ENCLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75%. OR GREATER SHALL BE NEMA 4X STAINLESS STEEL AND RATED FOR THAT APPLICATION.
18. ALL DEVICES, COMPONENTS OR EQUIPMENT INSTALLED ON THE EXTERIOR OF THE FACILITY SHALL BE PROVIDED IN ACCORDANCE WITH ALL MANUFACTURERS' REQUIREMENTS TO ENSURE THE PROPER OPERATION WHEN EXPOSED TO THE ENVIRONMENTAL CONDITIONS AND/OR AVERAGE ANNUAL LOWEST TEMPERATURE THAT CAN BE ANTICIPATED FOR THE GEOGRAPHIC REGION OF THE FACILITY.
19. ALL INTERIOR AND/OR EXTERIOR COMPONENTS, DEVICES OR SYSTEMS EQUIPMENT EXPOSED TO THE GENERAL POPULATION SHALL BE INSTALLED IN SECURED EQUIPMENT ENCLOSURES WITH TAMPER SWITCHES AND INSTALLED IN SUCH A MANNER THAT RESISTS TAMPERING AND/OR REMOVAL WITHOUT THE USE OF SPECIALIZED TOOLS.
20. FOR EQUIPMENT INSTALLATIONS REQUIRING COORDINATION WITH OTHER TRADES THE CONTRACTOR SHALL PROVIDE ALL TEMPLATES, BACKBOXES AND EQUIPMENT ANCHOR BOLTS FOR MOUNTING OR FLUSH MOUNTING PREPARATION, (E.G. PEDESTALS OR OTHER DEVICES REQUIRING MOUNTING ON WALLS, CONCRETE PADS OR OTHER MATERIALS). COORDINATE DELIVERY OF TEMPLATES AND EQUIPMENT WITH ALL AFFECTED CONTRACTORS.
21. ALL COMMUNICATIONS EQUIPMENT MUST HAVE TRANSIENT SURGE PROTECTION TO COMPLY WITH UL AND NFPA 70 REQUIREMENTS. WHERE ANY CIRCUITS LEAVE THE BUILDING, ADDITIONAL TRANSIENT PROTECTION MUST BE PROVIDED FOR EACH CIRCUIT. ALL TRANSIENT PROTECTION DEVICES MUST BE UL LISTED UNDER STANDARD #497B (ISOLATED LOOP PROTECTORS).
22. REFER TO ALL RELATED CONTRACT DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND/OR REQUIREMENTS RELATED TO THE INSTALLATION, PROGRAMMING, TESTING, COMMISSIONING AND CERTIFICATION OF ALL COMMUNICATIONS SYSTEMS.



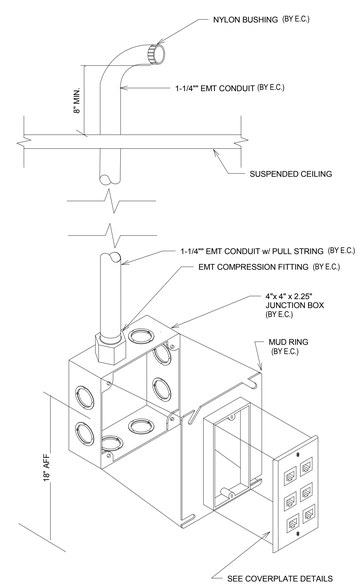
TELECOMMUNICATION KEYNOTES

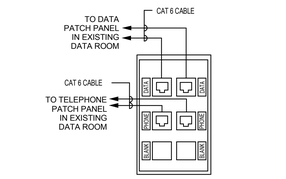
(THIS DRAWING)

1. EXISTING WIRELESS ACCESS POINTS SHALL BE REINSTALLED AT THIS LOCATION.
2. DATA/TV OUTLETS SHALL BE MOUNTED IN RECESSED TV BOX. REFER TO NOTE 5 ON E103. RUN CABLING BACK TO EXISTING DATA ROOM AND LEAVE A 15' COIL FOR CABLE TV.
3. PROVIDE NEW 48 PORT PATCH PANEL IN EXISTING DATA RACK.
4. PROVIDE J-HOOKS DOWN ONE SIDE OF THE CORRIDOR AND RUN ALL CABLING THROUGH CORRIDOR AND OUT NEW 4" SLEEVE TO CORRIDOR TO EXISTING DATA ROOM.
5. PROVIDE NEW 4" CONDUIT SLEEVE THROUGH WALL AT THIS LOCATION. PROVIDE FIREPROOFING AROUND SLEEVE PENETRATION.

2 TELECOMMUNICATIONS PLAN

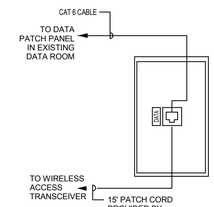
1/8" = 1'-0"





TYPE: COMBINATION 2-DATA, 2-TELEPHONE PORTS

MOUNT JACK AT 18" A.F.F. (UNLESS NOTED OTHERWISE)
(FOLLOW THE USING AGENCY STANDARD LABELING NOMENCLATURE)



TYPE: WAP 1-DATA JACK FOR WIRELESS ACCESS POINT

INSTALL JACK ABOVE ACCESSIBLE CEILING SPACE
(FOLLOW THE USING AGENCY STANDARD LABELING NOMENCLATURE)

NOTE: COORDINATE WITH THE GOVERNMENT'S OI&T FOR EXACT LOCATION OF ALL OWNER PROVIDED WIRELESS ACCESS POINTS

3 Telecom Details

N.T.S.

NORTH

FULLY SPRINKLERED FINAL SUBMISSION

Revisions:	Date

CONSULTANTS:

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Drawing Title TELECOMMUNICATIONS SYMBOLS AND NOTES	**Project Title:** Renovate B3 Basement for Acupuncture / Chiropractic Services at the Canandaigua VA Medical Center		**Project Number** 528A5-13-532
			Building Number #3
Approved: Project Director	**Location:** 400 Fort Hill Avenue, Canandaigua, NY 14424		**Drawing Number** ET001
	Date: 03 / 07 / 2014	**Checked:** JMG / **Drawn:** JMZ	**Dwg.** 24 **of** 25

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

FIRE ALARM SYMBOL LEGEND

FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL	MFACP	MASTER FIRE ALARM CONTROL PANEL
FAAP	REMOTE LCD ANNUNCIATOR PANEL	FFCS	FIRE FIGHTERS COMMAND STATION
FAC	FIRE ALARM COMMUNICATOR (DACT)	FATC	FIRE ALARM TERMINAL CABINET
HD X	DETECTOR, HEAT; SUB TEXT =: M RT = COMBINATION F = FIXED TEMPERATURE RISE R/C = RATE COMPENSATION R = RATE OF	FCPS	FIELD CHARGING POWER SUPPLY
PD X	DETECTOR; LETTER INDICATES AS FOLLOWS: SUB TEXT = A = AUDIBLE BASE H = HEAT SMOKE I = IONIZATION SMOKE P = PHOTOELECTRIC SMOKE IH = IONIZATION AND HEAT SMOKE IP = IONIZATION AND PHOTOELECTRIC SMOKE PH = PHOTOELECTRIC AND HEAT SMOKE IPH = IONIZATION, PHOTOELECTRIC, AND HEAT	EOL	END OF LINE SUPERVISORY DEVICE
		X X	STROBE UNIT SYNCHRONIZED - CEILING MOUNT STROBE UNIT SYNCHRONIZED - WALL MOUNT (XX-CD = CANDELA RATING) WP = WEATHER PROOF WG = WIRE GUARD
DD	DETECTOR, SMOKE, FOR DUCT S=SUPPLY R=RETURN	X X	COMBO SYNCHRONIZED HORN/STROBE UNIT - WALL MOUNTED COMBO SYNCHRONIZED HORN/STROBE UNIT - CEILING MOUTNED (XX-CD = CANDELA RATING) WP = WEATHER PROOF WG = WIRE GUARD
P	FIRE ALARM MANUAL PULL STATION		
	MAGNETIC DOOR HOLD OPEN DEVICE - FLOOR MOUNTED MAGNETIC DOOR HOLD OPEN DEVICE - WALL MOUNTED	FS X FS X	FIRE SPEAKER UNIT - CEILING MOUNTED FIRE SPEAKER UNIT - WALL MOUNTED
M	ADDRESSABLE MONITOR MODULE	FS X FS X	FIRE SPEAKER/STROBE UNIT - CEILING MOUNTED FIRE SPEAKER/STROBE UNIT - WALL MOUNTED WP = WEATHER PROOF (XX-CD = CANDELA RATING) WG = WIRE GUARD
TS	CONNECTION TO SPRINKLER TAMPER AND/OR LOW AIR SWITCH	C	ADDRESSABLE CONTROL MODULE
FS	CONNECTION TO SPRINKLER WATER, FLOW SWITCH	R	RELAY

NOTE:

THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

STANDARD MOUNTING HEIGHTS

CEILING	SMOKE AND HEAT DETECTORS, 360° SECURITY MOTION DETECTORS, CCTV SURVEILLANCE CAMERAS, PUBLIC ADDRESS AND VOICE EVACUATION SPEAKERS, WIRELESS ACCESS POINTS. TV AND LCD PROJECTOR JACKS
8' A.F.G.	EXTERIOR VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES. EXTERIOR PUBLIC ADDRESS SPEAKERS.
7'-0" A.F.F.	VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES. WALL MOUNTED SECURITY MOTION DETECTORS (CENTER OF DEVICE)
6" ABOVE DOOR JAMB	REQUEST TO EXIT MOTION DETECTORS
5'-6" A.F.F	TOP OF PLYWOOD TELEPHONE BACKBOARD
5'-4" A.F.F.	FIRE ALARM ANNUNCIATOR PANELS, FIRE FIGHTER CONTROL STATIONS, SECURITY ANNUNCIATOR PANELS
4'-8" A.F.G. MAX	PEDESTAL MOUNT INTERCOM PEDESTAL MOUNT CARD READER
4'-0" A.F.F.	INTERCOM STATIONS, FIRE FIGHTER TELEPHONE JACKS, FIRE ALARM MANUAL STATIONS, CARD READERS, MANUAL REQUEST TO EXIT DEVICES, WALL MOUNTED DURESS ALARM STATIONS, RESCUE ASSISTANCE PANELS, LCD KEYPADS (CENTER OF DEVICE)
UNDER COUNTER OR DESK	DURESS ALARM BUTTONS, DOOR RELEASE BUTTONS
1'-6" A.F.F.	DATA/TELEPHONE JACKS, LOW TELEVISION JACKS, MICROPHONE JACKS
0'-0"	IN FLOOR JUNCTION BOXES FLUSH TO FINISHED FLOOR (FF) (DATA, TELEPHONE, MICROPHONE, MEDIA)

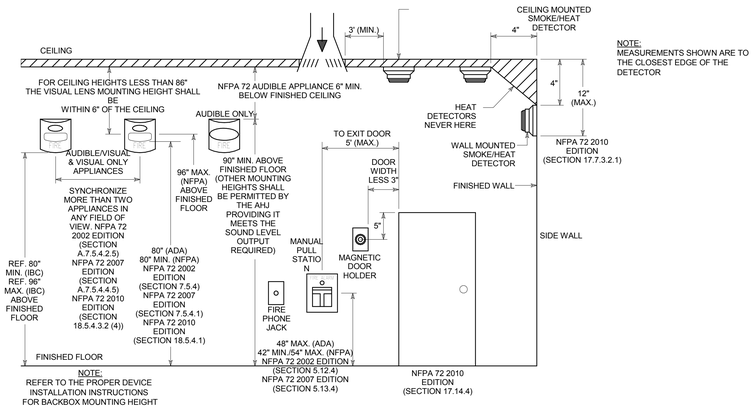
1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
3. COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH PROFESSIONAL AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMISSION.

GENERAL FIRE ALARM SYSTEM NOTES:

1. THE FOLLOWING GENERAL NOTES AS LISTED BELOW SHALL APPLY TO ALL FIRE ALARM SYSTEM SCOPES OF WORK AS INDICATED ON THE EF SERIES DRAWINGS.
2. ALL EQUIPMENT SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CABLING. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
3. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK.
4. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 760 OF THE 2008 NATIONAL ELECTRIC CODE. ALL FIRE ALARM CABLE MUST BE MARKED TYPE FPL (NON PLENUM) OR FPLP (PLENUM) AND PROVIDED IN ACCORDANCE WITH THE CABLING REQUIREMENTS SPECIFIED BY THE CONTRACT DOCUMENTS.
5. COORDINATE WITH ALL TRADES ALL CONDITIONS RELATED TO THE INSTALLATION OF ALL DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
6. PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NFPA 70 REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.
7. COORDINATE EXACT LOCATION(S) OF ALL CEILING MOUNTED CABLE, CONDUITS, EQUIPMENT AND/OR DEVICES WITH ALL ARCHITECTURAL PLANS, REFLECTED CEILING PLANS AND AFFECTED TRADES PRIOR TO INSTALLATION.
8. ALL SMOKE AND HEAT DETECTORS SHALL BE MOUNTED TO FINISHED CEILING AND/OR DECKING, UNLESS NOTED OTHERWISE. DETECTORS SHALL NOT BE INSTALLED ON BOTTOM OF OPEN WEB JOISTS OR ON BEAMS EXCEEDING 12 INCHES DEPTH FROM FINISHED CEILING OR DECK. REFER TO NFPA 72 FOR ALL INITIATING DEVICE INSTALLATION REQUIREMENTS. PROVIDE DETECTORS IN SUFFICIENT QUANTITY TO COMPLY WITH ALL NFPA 72 REQUIREMENTS BASED ON CEILING CONDITIONS AND PROTECTED SPACE REQUIREMENTS
9. PROTECTIVE ANTI-DUST COVERS SHALL BE INSTALLED AND MAINTAINED ON ALL SYSTEM SMOKE DETECTORS UNTIL FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION.
10. SMOKE DETECTORS SHALL NOT BE INSTALLED LESS THAN 3 FEET FROM ANY HVAC SUPPLY OR RETURN AIR REGISTER AND A MINIMUM OF 1 FOOT AWAY FROM ALL LIGHTING FIXTURES.
11. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILINGS, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.
12. THE FIRE ALARM SYSTEM CABLING SHALL BE INSTALLED IN DEDICATED CONDUITS. ALL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 AND THE CONTRACT DOCUMENTS. ALL CONDUITS SHALL BE SIZED IN ACCORDANCE WITH NFPA 70 AND SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
13. ALL CONDUITS/RACEWAYS SHALL BE INSTALLED IN A MANNER THAT PREVENTS TAMPERING OR REMOVAL WHEN INSTALLED IN AREAS EXPOSED TO THE GENERAL POPULATION. PROVIDE TAMPER-RESISTANT INSTALLATION UTILIZING "TORX WITH PIES" SECURITY-FASTENING DEVICES FOR ALL CONDUITS/RACEWAYS, EQUIPMENT, DEVICES AND APPURTENANCES IN ALL AREAS ACCESSIBLE TO THE GENERAL POPULATION AND/OR AREAS SUBJECTED TO TAMPERING OR VANDALISM. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
14. PROVIDE APPROVED EARTH GROUND AT FIRE ALARM CONTROL PANEL CHASSIS. A CONDUIT GROUNDING TO BUILDING STEEL SHALL NOT BE CONSIDERED A ACCEPTABLE METHODOLOGY FOR GROUNDING OF FIRE ALARM CONTROL PANEL.
15. ALL SYSTEM WIRING AND EQUIPMENT INSTALLATIONS SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND BY ALL IEEE, EIA, NEC AND MANUFACTURER'S REQUIREMENTS. WIRING SHALL COMPLY WITH ALL STATE AND LOCAL ELECTRICAL CODES. ALL WIRING SHALL TEST FREE FROM ALL GROUNDS, SHORTS AND EMI.
16. NO A.C. CARRYING CONDUCTORS ARE PERMITTED TO SHARE RACEWAYS WITH ANY FIRE ALARM INITIATING AND/OR NOTIFICATION CIRCUITS
17. ALL AC ELECTRICAL CIRCUITS FEEDING THE FIRE ALARM CONTROL EQUIPMENT SHALL BE EQUIPPED WITH DEDICATED CIRCUIT BREAKER LOCKOUT DEVICE IN ACCORDANCE WITH NFPA 72.
18. THE CONTRACTOR SHALL METER ALL WIRES AND CIRCUITS TO ENSURE THEY ARE FREE OF ANY GROUNDS AND SHORTS PRIOR TO COMMISSIONING OF THE SYSTEM.
19. ALL AUXILIARY ALARM RELAYS MUST BE INSTALLED WITHIN 3 FEET OF THE EQUIPMENT TO BE CONTROLLED IN ACCORDANCE WITH ALL NFPA 72 REQUIREMENTS.
20. ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE LABELED UNIQUE IDENTIFICATION NUMBER. ALL NUMBERS SHALL CORRESPOND WITH NUMBERING SEQUENCE AS SUBMITTED ON THE PROJECT SHOP DRAWINGS. LABELS TO BE SIMILAR TO "BROTHER P-TOUCH" BLACK LETTERING ON WHITE BACKGROUND, SELF-ADHESIVE TAPE. ALL DEVICE LABELS SHALL BE INSTALLED PRIOR TO SYSTEM CHECKOUT.
21. ALL PENETRATIONS OF WALLS AND FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE-STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.
22. REFER TO ALL RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
23. ALL EQUIPMENT ENCLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X ENCLOSURES AND RATED FOR THAT APPLICATION.
24. ALL EQUIPMENT EXPOSED TO THE ENVIRONMENT OR INSTALLED IN PROXIMITY TO AREAS WITH HIGH MOISTURE, OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL PROVIDED WITH ENCLOSURES AND OR BACKBOXES RATED FOR THE ENVIRONMENTAL CONDITIONS.
25. THE STROBE INTENSITY OF ALL VISUAL NOTIFICATION APPLIANCES SHALL BE IN ACCORDANCE WITH NFPA 72 AND UL 1971. STROBE CANDELA RATINGS SHALL BE PROVIDED IN ACCORDANCE WITH DEVICE LOCATIONS AND SHALL CONFORM TO ALL ICC/ANSI 117 AND NFPA 72 INSTALLATION REQUIREMENTS. CONTRACTOR SHALL PROVIDE THE REQUIRED CANDELA POWER AND LOCATE ALL VISUAL NOTIFICATION APPLIANCES AS REQUIRED TO MEET THE REQUIREMENTS OF ALL REFERENCED CODES AND STANDARDS.

ABBREVIATIONS

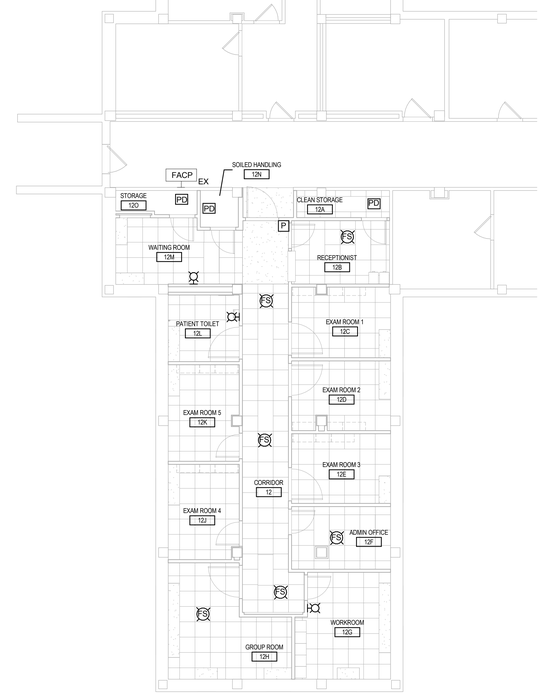
ABOVE FINISHED FLOOR	AFF	FAR END CROSSTALK	FEXT	NATIONAL ELECTRIC MANUFACTURER ASSOCIATION	NEMA
ABOVE FINISHED GRADE	AFG	FIRE ALARM	FA	NATIONAL ELECTRIC CODE	NEC
ACCENT	ACC	FIRE ALARM ANNUNCIATOR PANEL	FAAP	NEAR END CROSSTALK	NEXT
ADJUSTABLE	ADJ	FIRE ALARM CONTROL PANEL	FACP		
ALTERNATING CURRENT	AC	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL	FAGP	NIGHT LIGHT	NL
ALUMINUM	AL	FIXTURE	FIXT	NORMALLY OPENED	NO
AMERICAN WIRE GAUGE	AWG	FLOOR	FL	NOT AVAILABLE/NOT APPLICABLE	N/A
AMMETER	AM	FLUORESCENT	FLOUR	NOT IN CONTRACT	N/C
AMPERE	A/AMP	FOOTCANDLES	FT	NOT TO SCALE	NTS
APPROXIMATE(LEL)Y	APPROX	FULL LOAD AMPERES	FLA		
ASYMMETRIC	ASY	FULL VOLTAGE NON-REVERSING	FVNR	ON CENTER	OC
ATTENUATION/CROSSTALK RATIO	ACR			OVERHEAD	OH
AUTOMATIC TRANSFER SWITCH	ATS	GENERAL CONTRACTOR	GC	OVERLOAD HEATER ELEMENT	OL
		GENERATOR	GEN		
BATTERY	BATT	GROUND	GND/G	PANEL	PNL
BELOW FINSHED CEILING	BFC	GROUND FAULT INTERRUPTER	GFI	PAINTER	PRW
BLACK	BLK			PLYWOOD	PLY
BRACKET	BRKT	HAND HOLE	HH	POLE	P
BREAKER	BKR	HEATING VENTILATING AIR CONDITIONING	HVAC	POLYVINYL CHLORIDE	PVC
		HERTZ	HZ	POTENTIAL TRANSFORMER	PT
CABINET	CAB	HIGH INTENSITY DISCHARGE	HID	POWER PANEL	PP
CABLE TELEVISION	CATV	HIGH POWER FACTOR	HPF	PULL BOX	PB
CEILING	CLG	HIGH VOLTAGE	HV		
CIRCUIT	CIR/CKT	HORSEPOWER	HP	RAPID START	RS
CIRCUIT BREAKER	CB			RECEPTACLE	REC/RECPT
CLEAR	CLR	INCANDESCENT	INCAN	REFLECTOR	REFL
CLOSED CIRCUIT TELEVISION	CCTV	ISOLATED GROUND	IG	REQUIRED	REQ'D
COLUMN	COL			RIGID GALVANIZED STEEL CONDUIT	RGS
COMMUNICATION	COMM	JUNCTION BOX	JB	ROOM	RM
CONDUIT	C			ROUGH IN ONLY	RO
COOL WHITE	CW	KILOVAR (REACTANCE)	KVAR		
COPPER	CU	KILOVOLT AMPERE	KVA	SCHEDULE	SCHED/SCH
CURRENT LIMITING FUSE	CLF	KILOWATT	KW	SINGLE POLE DOUBLE THROW	SPST
CURRENT TRANSFORMER	CT	KILOWATT HOUR METER	KWH	SINGLE POLE SINGLE THROW	SPDT
				SOLID STATE BALLAST	SSB
DECIBEL	DB	INVERTER POWER SUPPLY	IPS	SWITCH	SW
DEDICATED	DED			SWITCHBOARD	SWBD
DIAMETER	DIA	LIGHT	LT	SWITCHGEAR	SWGR
DIRECT CURRENT	DC	LIGHTING	LTG		
DISCONNECT	DISC	LIGHTNING ARRESTER	LA	TELEPHONE	TELE
DISTRIBUTION PANEL	DP	LOW VOLTAGE	LV	TRANSFORMER	XFMR
DOUBLE POLE DOUBLE-THROW	DPDT	LIGHT EMITTING DIODE	LED	TWIN TUBE	TT
DOWNLIGHT	DNLT			TYPICAL	TYP
DRAWING	DWG	MAIN CIRCUIT BREAKER	MCB	TELECOMMUNICATIONS INDUSTRY ASSOCIATION	TIA
DUAL ELEMENT	DE	MAIN DISTRIBUTION PANEL	MDP	TECHNICAL SERVICE BULLETIN	TSB
		MAIN LUGS ONLY	MLO	TWISTED SHIELDED PAIR	TSP
EACH	EA	MANHOLE	MH		
ELECTRIC WATER COOLER	EWC	MANUAL TRANSFER SWITCH	MTS	UNSHELDED TWISTED PAIR	UTP
ELECTRICAL	ELEC	MANUFACTURER	MFR	UNDERWRITER'S LABORATORIES	UL
ELECTRICAL CONTRACTOR	EC	MASTER ANTENNA TELEVISION	MATV	UNINTERRUPTIBLE POWER SUPPLY	UPS
ELECTRICALLY OPERATED	EO	MECHANICAL CONTRACTOR	MC	UNLESS OTHERWISE NOTED	UON
ELEVATOR	ELEV	MEDIUM VOLTAGE	MV		
EMERGENCY	E EMERG	METAL HALIDE	MH	VAPOR PROOF	VP
		METAL-CLAD CABLE	MCC	VOLT	V
ENERGY SAVING BALLAST	ESB	MISCELLANEOUS	MISC	VOLTMETER	VM
EQUIPMENT	EQIP	MOTOR CIRCUIT PROTECTOR	MCP		
EXHAUST FAN	EF	MOTOR CONTROL CENTER	MCC	WARM WHITE	WW
EXPLOSION PROOF	XP	MOTOR OPERATED DAMPER	MOD	WATT	W
ELECTRONICS INDUSTRY ASSOCIATION	EIA	MOUNTED	MTD	WEATHERPROOF	WP
		MOUNTING HEIGHT	MTG HT	WITH	W/
		MILLIMETER	MM	WITHIN	WI
		MILLIVOLT	MV	WITHOUT	W/O



NOTE:
REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT

NOTE:
MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR

3 FIRE ALARM DEVICE MOUNTING DETAIL
1/8" = 1'-0"



2 FIRE ALARM PLAN
1/8" = 1'-0"

NORTH

FULLY SPRINKLERED
FINAL SUBMISSION

Revisions:	Date

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SEAL

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Drawing Title
FIRE ALARM SYMBOLS AND NOTES

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Dwg. 25 **of** 25

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