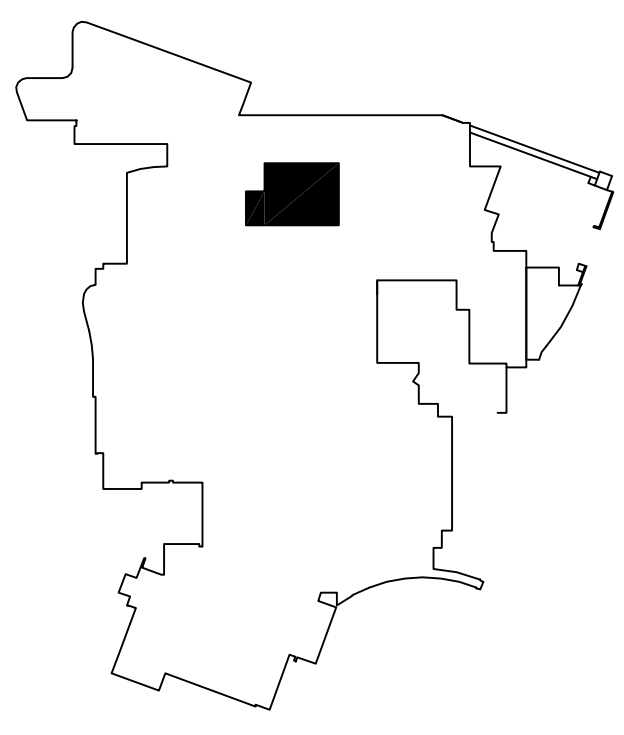


NOTES:

- A. PRIOR TO BID, CONTRACTOR MUST BECOME FAMILIAR WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND THE GENERAL NOTES, AS WELL AS ALL OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS. VISIT THE SITE TO OBTAIN ALL NECESSARY INFORMATION FOR BID AND PRIOR TO ANY HVAC, PLUMBING, OR EQUIPMENT FABRICATION. SYSTEMS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS, THE GENERAL NOTES, AND THE NOTES FOR COORDINATION WITH EQUIPMENT, STRUCTURE, FIRE PROTECTION, COMMUNICATION, AND ELECTRICAL CONDITIONS IN THE SPACE. MANUFACTURER'S CATALOGS SHALL BE USED TO OBTAIN GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS. DETAILS OR IN THE SPECIFICATIONS MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH CONTRACT DOCUMENTS CARRIES WITH IT THE EXCEPT WHERE INDICATED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTRUCTIONS TO FURNISH AND INSTALL THE NEWLY STATED.
- E. IF THE SUBMITTAL SHOWS VARIATIONS FROM THE MANUFACTURER'S CATALOG, THE SUBMITTAL SHALL NOT IN RED MENTION OF SUCH VARIATION IN HIS LETTER OF SUBMITTAL. THE SUBMITTAL SHALL MAKE FOR ANY REASON, THE TRADES SHALL MAKE UNDERSTANDING BY INDICATING WHICH EQUIPMENT AND MATERIALS THEY INTEND TO FURNISH AND INSTALLATION METHODS HE INTENDS TO USE. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND OTHER CONTRACT DOCUMENTS SHALL CONTROL, AND SHALL BE FOLLOWED.
- G. EACH SUBMITTAL SHALL KEEP ONE SET OF RECORD CONTRACT DRAWINGS MADE DURING THE CONSTRUCTION, RECORD DRAWINGS SHALL BE KEPT FOR THE RECORD AND FOR THE PROTECTION OF THE PROJECT. THE RECORD DRAWINGS SHALL BE DELIVERED TO THE CONTRACTOR BY THE OPERATING FACILITY. PLAN WORK INCLUDING ALTERATIONS AND CONNECTIONS TO THE EXISTING FUNCTIONS, WHEN NECESSARY TO TEMPORARILY INTERRUPT A SERVICE, ARRANGE WITH THE CONTRACTOR IN ADVANCE TO MINIMIZE THE INTERRUPTION. WILL BE LEAST DISRUPTIVE.
- I. SUPPORTED FROM MAINTENANCE, EQUIPMENT OR MECHANICAL TRADERS MUST BE SUPPORTED FROM THE FLOOR UNLESS OTHERWISE INDICATED. MECHANICAL TRADERS MUST BE SUPPORTED FROM THE FLOOR UNLESS OTHERWISE INDICATED. REPLACE OR REPAIR ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING WORK MUST AS A MINIMUM, EQUAL ORIGINAL CONDITION. SUPPLY DUCT BRANCHES SHALL BE THE SAME SIZE AS THE DIFFUSER NECK IT SERVES UNLESS OTHERWISE NOTED.
- M. OWNER TO VERIFY SIZES AND REQUIREMENTS FOR ALL EQUIPMENT PURCHASED BY THE OWNER. BOXES SHALL BE SIZED ACCORDING TO THE TERMINAL DEVICE CONNECTION UNLESS NOTED OTHERWISE. SIZED ACCORDING TO THE TERMINAL DEVICE OR HEATING COIL CONNECTION UNLESS NOTED OTHERWISE.
- P. COORDINATE AND REFER TO ARCHITECTURAL PLANS FOR PROJECT DETAILS, ATTENMANTS, MANUFACTURER, TO ALL EQUIPMENT THAT IS LOCATED ABOVE A HANGING CEILING.
- R. PROVIDE ACCESS DOORS AT ALL COALS, WHERE NOT RELATED EQUIPMENT AND DEVICES WITH OTHER TRADERS. DO NOT POSITION OR INSTALL ANY SYSTEM IN SUCH A WAY THAT IT WILL BE INACCESSIBLE OR UNMAINTAINABLE AFTER INSTALLATION.
- U. REQUIRED CLEAR INSIDE DIMENSIONS. SEE NOTES DUCT SIZES SHOWN ON PLANS INDICATE MINIMUM STANDARDS.
- V. COORDINATE FINAL PLACEMENT OF ALL REFRIGERANT PIPING SENSORS WITH ARCHITECTURAL DRAWINGS.

KEY PLAN



100% CD

FULLY SPRINKLERED

Project Number
541-12-103

Building Number
1

Drawing Number
M-001

Dwg. of

Project Title
Wade Park
Renovate Medical Library - CARES

Location
Cleveland, Ohio

Date
April 25, 2012

Checked

Drawn

Office of
Facilities
Management

Department of
Veterans Affairs

SYMBOL	DESCRIPTION
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PRV	PRESSURE REGULATING VALVE
PTAC	PACKAGED TERMINAL AIR COND. UNIT
RI	RETURN INLET
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
REF	RETURN EXHAUST FAN
REX	REMOVE EXISTING
RF	RETURN FAN
RHC	REFLECT COIL
RL	REFRIGERANT LIQUID
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	REFRIGERANT VENT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SE	SAFETY VALVE ESCAPE
SF	SUPPLY FAN
SO	SUPPLY OUTLET
SV	SAFETY VALVE
TB	TERMINAL BOX
TT	THERMOSTATIC TRAP
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT PIPING
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VWT	VARIABLE VOLUME/VARIABLE TEMP
SYMBOL	DESCRIPTION

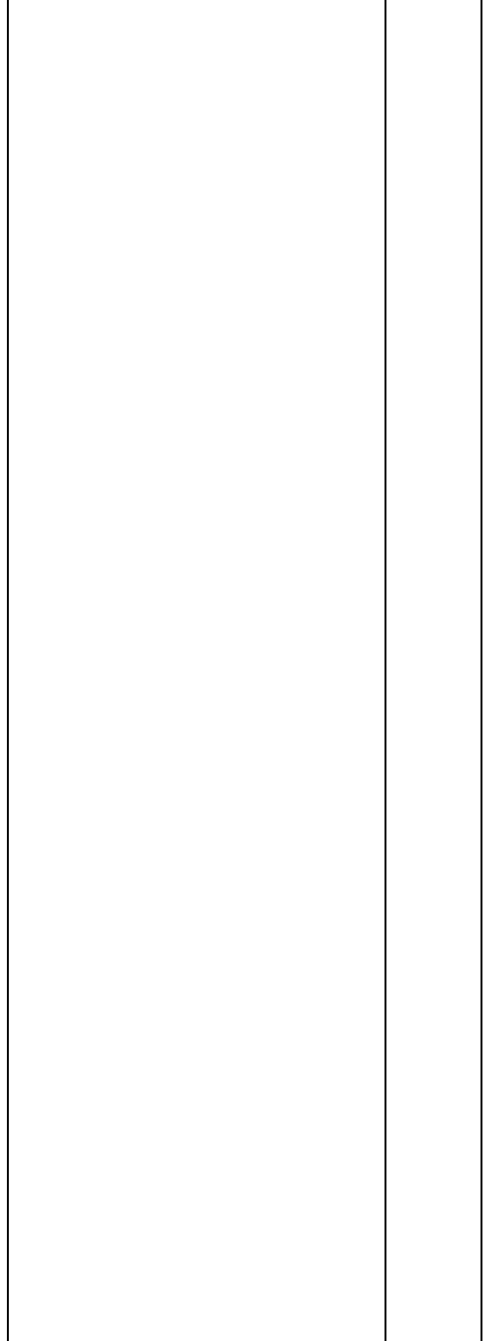
HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFT	AIR HANDLING UNIT
AHU	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
AV	AIR VENT
B	BOLTER
BER	BOLTER FEED
CC	COOLING COIL
CD	A/C CONDENSATE DRAIN
CF	CHEMICAL FEED
QMA	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEAN OUT
CONV	CONNECTOR
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CT	COOLING TOWER
CTE	CONNECT TO EXISTING
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DV	DRAIN VALVE
EAD	EXHAUST AIR DAMPER
EI	EXHAUST INLET
EB	ELECTRIC BASEBOARD RADIATION
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EL	EXPANSION JOINT
ER	EXHAUST REGISTER
ETR	EXISTING TO REMAIN
F	FLUE
F & T	FLOAT & THERMOSTATIC TRAP
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPVAV	FAN POWERED VARIABLE AIR VOLUME
FT	FANNEED TUBE RADIATION
GC	GENERAL CONTRACTOR
GR	GRAVITY SOLUTION RETURN
GRV	GRAVITY ROOF VENTILATOR
GS	GLYCOL SOLUTION SUPPLY
H	HUMIDIFIER
HC	HEATING COIL
HCHR	HOT/CHILLED WATER RETURN
HCHS	HOT/CHILLED WATER SUPPLY
HE	HEAT EXCHANGER
HG	REFRIGERANT HOT GAS
HPS	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HPT	HIGH PRESSURE TRAP
HV	HEATING AND VENTILATING UNIT
HTWR	HOT WATER RETURN
HTWS	HOT WATER SUPPLY
LPS	LOW PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE STEAM RETURN
MAU	MAKE UP AIR UNIT
MC	MECHANICAL CONTRACTOR
MOD	MOTOR OPERATED DAMPER
MPS	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
OA	OUTSIDE AIR
SYMBOL	DESCRIPTION

HVAC ABBREVIATIONS

Project Number	541-12-103
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Drawing Number	M-001
Dwg. of	

CONSULTANTS:



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Phoenix - Washington - Cleveland
WRL Commission #09017.00

Drawing Title
HVAC LEGEND &
ABBREVIATIONS

Approved Project Director

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