

REPLACE AIR HANDLER UNITS PHASE II
KERRVILLE VETERANS HOSPITAL
3600 MEMORIAL BLVD., KERRVILLE, TEXAS 78028

Project # 671A4- -110



MAY, 20 2014

100% Submission



Project # 671A4- -110

GI000

KD AIR HANDLER REPLACEMENT
(AHU) PROJECT – PHASE II

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

DRAWING INDEX



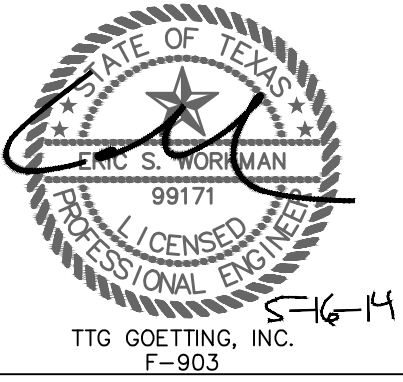

SHT REF NO.

TITLE

ELECTRICAL

G101	ELECTRICAL SYMBOLS & ABBREVIATIONS
ED100	ELECTRICAL DEMOLITION - BUILDING 11 - BSMNT, 1ST & 5TH FLRS - POWER PLAN - MECH RMS
ED101	ELECTRICAL DEMOLITION - BUILDING 96 - FIRST FLR - POWER PLAN - MECH RMS
ED102	ELECTRICAL DEMOLITION - BUILDING 11 - FOURTH FLR - POWER PLAN - MECH RMS
ED103	ELECTRICAL DEMOLITION - BUILDING 11 - BASEMENT - LIGHTING PLAN
ED104	ELECTRICAL DEMOLITION - BUILDING 11 - FIRST FLOOR - LIGHTING PLAN
ED105	ELECTRICAL DEMOLITION - BUILDING 11 - FOURTH FLOOR - LIGHTING PLAN
ED106	ELECTRICAL DEMOLITION - BUILDING 11 - FIFTH FLOOR - LIGHTING PLAN
ED107	ELECTRICAL DEMOLITION - BUILDING 11 - SIXTH FLOOR - LIGHTING PLAN
ED108	ELECTRICAL DEMOLITION - BUILDING 11 - BASEMENT - AUXILIARY SYSTEMS PLAN
ED109	ELECTRICAL DEMOLITION - BUILDING 11 - FIRST FLOOR - AUXILIARY SYSTEMS PLAN
ED110	ELECTRICAL DEMOLITION - BUILDING 11 - FOURTH FLOOR - AUXILIARY SYSTEMS PLAN
ED111	ELECTRICAL DEMOLITION - BUILDING 11 - FIFTH FLOOR - AUXILIARY SYSTEMS PLAN
ED112	ELECTRICAL DEMOLITION - BUILDING 11 - SIXTH FLOOR - AUXILIARY SYSTEMS PLAN
EL100	ELECTRICAL NEW WORK - BUILDING 11 - BASEMENT - LIGHTING PLAN
EL101	ELECTRICAL NEW WORK - BUILDING 11 - FIRST FLOOR - LIGHTING PLAN
EL102	ELECTRICAL NEW WORK - BUILDING 11 - FOURTH FLOOR - LIGHTING PLAN
EL103	ELECTRICAL NEW WORK - BUILDING 11 - FIFTH FLOOR - LIGHTING PLAN
EL104	ELECTRICAL NEW WORK - BUILDING 11 - SIXTH FLOOR - LIGHTING PLAN
EP400	ELECTRICAL NEW WORK - BUILDING 11 - BSMNT, 1ST, 5TH FLRS - POWER PLAN - MECH RMS
EP401	ELECTRICAL NEW WORK - BUILDING 96 - FIRST FLOOR - POWER PLAN - MECH RMS
EP402	ELECTRICAL NEW WORK - BUILDING 11 - FOURTH FLOOR - POWER PLAN - MECH RMS
EP600	PARTIAL ELECTRICAL ONE-LINE DIAGRAM
EP601	ELECTRICAL NEW WORK - PANEL SCHEDULES
EP700	ELECTRICAL NEW WORK - BUILDING 11 - BASEMENT - POWER PLAN - VAV UNITS
EP701	ELECTRICAL NEW WORK - BUILDING 11 - FIRST & SECOND FLOORS - POWER PLAN - VAV UNITS
EP702	ELECTRICAL NEW WORK - BUILDING 11 - FOURTH FLOOR - POWER PLAN - VAV UNITS
EP703	ELECTRICAL NEW WORK - BUILDING 11 - FIFTH FLOOR - POWER PLAN - VAV UNITS
EP704	ELECTRICAL NEW WORK - BUILDING 11 - SIXTH FLOOR - POWER PLAN - VAV UNITS
EY100	ELECTRICAL NEW WORK - BUILDING 11 - BASEMENT - AUXILIARY SYSTEMS
EY101	ELECTRICAL NEW WORK - BUILDING 11 - FIRST FLOOR - AUXILIARY SYSTEMS
EY102	ELECTRICAL NEW WORK - BUILDING 11 - FOURTH - AUXILIARY SYSTEMS
EY103	ELECTRICAL NEW WORK - BUILDING 11 - FOURTH - AUXILIARY SYSTEMS
EY104	ELECTRICAL NEW WORK - BUILDING 11 - FOURTH - AUXILIARY SYSTEMS



		CONSULTANTS:		ARCHITECT/ENGINEERS:		Approved: Assistant Director			Approved: Chief of Staff			Approved: Chief, Engineering			Drawing Title		Project Name		Project Number		Office of Construction and Facilities Management 				
		 Goetting & Associates, Inc. 12713 Research Blvd., Suite 355 Austin, Texas 78729 512/416-1454 FAX: 512/416-7547		 TTG GOETTING, INC. F-303		 RH SHACKELFORD, INC. SDVOSB			Approved: Service Chief			Approved: Service Chief			Approved: Service Chief			KD AIR HANDLER REPLACEMENT (AHU) PROJECT - PHASE II		671A4-11-110					
						Approved: Chief, Bio-Med			Approved: Chief, EMS			Approved: Chief, Infection Control					Date		09/13/12						
						Approved: Chief, IT			Approved: Chief, M&O			Approved: Chief, Police			Location		Drawing Number		G1002						
Revisions:		Date							Approved: Chief, Safety			Approved: Chief			Approved: Chief			Building Number		Checked RTO		Drawn RTO		Dwg. of	

MECHANICAL SYMBOLS & ABBREVIATIONS

(SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT)

SYMBOL DESCRIPTION

PIPING SYMBOLS

GENERAL

	VENTURI
	AUTOMATIC AIR VENT
	BACK FLOW PREVENTER
	BALL JOINT
	BASKET STRAINER ASSEMBLY
	BLIND FLANGE
	B-INVERTED BUCKET CAP FT-FLOAT & THERMOSTATIC
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTION (PIPE)
	FLOW DIRECTION
	PRESSURE SWITCH
	FLOW SWITCH
	GAUGE COCK CONNECTION
	GAUGE COCK & PRESSURE GAUGE
	PIPE ANCHOR
	PIPE DROP
	PIPE RISER
	PIPING GUIDE
	REFRIGERANT SITE GLASS
	STRAINER (Y TYPE) W/ BLOWDOWN & CAP
	THERMOMETER
	TEST WELL
	UNION
	CONDENSATE DRAIN
	EXISTING PIPING
	FUEL OIL FILL
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	FUEL OIL VENT
	SPRING ISOLATOR - PIPE OR EQUIPMENT
	VIBRATION ISOLATOR
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	NEW PIPING/DUCTWORK/EQUIPMENT
	PIPING/DUCTWORK/EQUIPMENT TO REMAIN
	PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED
	PUMP (SCHEMATIC)
	TURBINE METER ASSEMBLY
	ORIFICE ASSEMBLY

AIR CONDITIONING

	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT HOT GAS
	MAKE-UP WATER
	DRAIN LINE

HEATING

	HIGH PRESSURE STEAM CONDENSATE
	LOW PRESSURE STEAM CONDENSATE
	STEAM SUPPLY (PRESS. AS NOTED)
	PUMPED CONDENSATE RETURN
	HEATING HOT WATER RETURN
	HEATING HOT WATER SUPPLY
	BOILER FEED WATER
	THERMOSTATIC TRAP
	FLOAT & THERMOSTATIC TRAP

SYMBOL DESCRIPTION

PIPING SYMBOLS

VALVES

	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	EXPANSION VALVE
	FLOAT VALVE
	GATE VALVE
	GLOBE VALVE
	LIQUID SOLENOID VALVE
	MOTOR OPERATED, STRAIGHT THRU VALVE
	MOTOR OPERATED, 3-WAY CONTROL VALVE
	O.S. & Y. GATE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	PRESSURE & TEMP. RELIEF VALVE
	THERMOSTATIC EXPANSION VALVE
	VALVE W/ HOSE THREAD
	AUTOMATIC FLOW CONTROL VALVE

VALVES

DOUBLE LINE REPRESENTATION

PLAN VIEW

	CHECK VALVE
	BUTTERFLY VALVE, LEVER OPERATED, TOP MOUNTED
	BUTTERFLY VALVE, LEVER OPERATED, SIDE MOUNTED
	BUTTERFLY VALVE, GEAR OPERATED, SIDE MOUNTED
	BUTTERFLY VALVE, GEAR OPERATED, TOP MOUNTED
	BUTTERFLY VALVE, CONTROL VALVE, SIDE MOUNTED
	BUTTERFLY VALVE, CONTROL VALVE, TOP MOUNTED
	GLOBE VALVE
	GATE VALVE
	PLUG VALVE, GEAR TYPE
	PLUG VALVE, LEVER TYPE
	WAFER VALVE

ELEVATION VIEW

	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	PLUG VALVE, GEAR TYPE
	PLUG VALVE, LEVER TYPE

CONTROLS

	THERMOSTAT - REMOTE BULB
	THERMOSTAT SERVING ZONE 3
	HUMIDISTAT SERVING ZONE 3
	FIRESTAT
	SMOKE DETECTOR
	TEMPERATURE SENSOR
	HUMIDITY SENSOR

DRAWING SYMBOLS

	EQUIPMENT MARK NUMBER - CHP
	KEYED NOTE - NEW WORK
	KEYED NOTE - DEMOLITION
	KEYED NOTE - TEMPORARY
	DETAIL OR PLAN NUMBER 1
	SECTION ARROW - SECTION 1, SHEET M-2
	POINT OF CONNECTION/TERMINATION
	TYPE 'A' AIR DEVICE, 150 CFM 6" FLEX CONNECTION

SYMBOL DESCRIPTION

DUCTWORK SYMBOLS

GENERAL

	ROUND DUCT SECTION
	FLAT OVAL DUCT SECTION
	12" DIA. ROUND DUCT
	12" BY 24" FLAT OVAL DUCT
	SUPPLY DUCT SECTION, POSITIVE PRESS.
	EXH., RET., O.A. DUCT SECTION NEGATIVE PRESS.
	DUCTWORK, FIRST NO. IS VISIBLE DIM.
	EXISTING DUCTWORK (LIGHT LINES)
	DUCTWORK TO BE REMOVED
	ACOUSTICALLY LINED DUCT
	DUCT ACCESS DOOR
	FLEXIBLE CONNECTION (DUCT)
	CHANGE OF ELEVATION IN DIRECTION SHOWN R-RISE D-DROP
	FIRE DAMPER TYPE "A"
	SMOKE DAMPER
	FIRE & SMOKE DAMPER
	BRANCH DUCT WITH VOLUME DAMPER
	SIDEWALL REGISTER
	DUCT WITH TURNING VANES
	PROPORTIONAL SPLIT - DIMENSIONS INDICATE SPLIT
	DAMPER TYPE INDICATED (OBD, PBD)
	MOTORIZED DAMPER TYPE INDICATED (OBD, PBD)
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS W/ VANES EVEN IF SYMBOL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW
	LOUVER
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	LINEAR SUPPLY AIR DEVICE
	LINEAR RETURN AIR DEVICE
	FLEXIBLE DUCT (SINGLE LINE REPRESENTATION)
	FLEXIBLE DUCT (DOUBLE LINE REPRESENTATION)
	FAN (SCHEMATIC)
	DIFFERENTIAL PRESSURE GAUGE

CONSTRUCTION SAFETY NOTES:

- CONTRACTOR MUST FOLLOW ALL ESTABLISHED HOSPITAL POLICIES AND NFPA STANDARDS, INCLUDING NFPA 101 LIFE SAFETY CODE.
- A TWO-HOUR FIRE-RATED CONSTRUCTION DUST BARRIER WILL EXTEND FROM FLOOR TO INTERSTITIAL DECKING AT ALL CONSTRUCTION PROJECTS. DUST BARRIER WALL EXTENDING PERPENDICULAR TO A CORRIDOR WILL BE BUILT AT 45 DEGREES IN REFERENCE TO CORRIDOR FLOW OF EGRESS. BARRIERS WILL BE WIPED DOWN PRIOR TO BEING REMOVED.
- DIRECTIONAL SIGNS MUST BE POSTED TO DISPLAY MEANS OF EGRESS AND LIFE SAFETY INFORMATION.
- CONTRACTOR MUST ENSURE TO KEEP MEANS OF EGRESS CLEAR FOR PATIENT/STAFF EVALUATION AT ALL TIMES.
- ILLUMINATED EXIT SIGNS WILL BE RELOCATED WHEN OBSTRUCTED BY CONSTRUCTION.
- GENERAL CONTRACTOR WILL WORK CLOSELY WITH THE RESIDENT ENGINEER AND/OR CONTRACTING OFFICE TECHNICAL REPRESENTATIVE (COTR) WHEN LIFE SAFETY HAZARDS ARE PRESENT. RESIDENT ENGINEER AND/OR COTR WILL COMMUNICATE SAFETY HAZARD CONCERNS TO THE SAFETY OFFICE.
- GENERAL CONTRACTOR WILL KEEP DUST CONTAINMENT BARRIER AT NEGATIVE AT ALL TIMES. HVAC EXHAUST AND SUPPLY DUCTS WILL BE COVERED DURING DEMOLITION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR MEASURING CONSTRUCTION DUST CONTAINMENT BARRIER PRESSURE ON A DAILY BASIS, AND WILL REPORT READINGS TO THE SAFETY OFFICE AND THE DESIGN OFFICE.
- GENERAL CONTRACTOR WILL INSPECT THE INTEGRITY OF THE DUST CONTAINMENT BARRIER AND WILL REPAIR IF REQUIRED. DUST CONTAINMENT BARRIER INTEGRITY MUST BE MAINTAINED TO THE UPPER DECKING OF THE CONSTRUCTION SITE.
- WORK SITE WILL BE SECURED WITH LOCK WHEN THERE ARE NO EMPLOYEES ON SITE.
- FLOOR MATS AND STICKY MATS LOCATED AT THE ENTRANCE TO THE CONSTRUCTION AREA WILL BE REPLACED AS NEEDED (APPROXIMATELY 75% USED).
- TRASH AND DEBRIS WILL BE REMOVED PROMPTLY IN COVERED CONTAINER.
- HAZARDOUS MATERIAL ARE STORED APPROPRIATELY.
- MSDS(S) ARE POSTED ON JOB SITE.
- ICRA IS POSTED ON JOB SITE.
- SMOKING REGULATIONS SHALL BE FOLLOWED.
- FIRE EXTINGUISHERS ARE READILY AVAILABLE IN CONSTRUCTION AREA.
- HOT WORK PERMIT ISSUED.
- SAFETY AND TEMPORARY SIGNAGE SHALL BE IN PLACE.
- SUBCONTRACTORS AWARE/TRAINED IN SAFETY/ENVIRONMENTAL ISSUES.
- MEANS OF EGRESS IS CLEAR IN CONSTRUCTION AND ADJACENT AREAS.
- ACCESS FOR THE FIRE DEPARTMENT AND EMERGENCY SERVICES IS CLEAR.
- STATUS OF THE FIRE DETECTION/SPRINKLER SYSTEM:
 - A. FIRE SPRINKLER SYSTEM IS ACTIVE.
 - B. FIRE ALARM SYSTEM IS ACTIVE.
 - C. SMOKE DETECTORS ARE ACTIVE.
 - D. TEMPORARY SYSTEMS ARE IN PLACE.
- EXTENSION CORDS SHALL BE PROTECTED/DISCONNECTED AT THE END OF THE DAY.
- CONTRACTOR SHALL COORDINATE WITH RESIDENT ENGINEER/COTR ENGINEERING SERVICES, INFECTION CONTROL SERVICES, AND THE SERVICES AFFECTED BY THE DEMOLITION, REMOVAL AND REINSTALLATION OF ALL EQUIPMENT.
- CONTRACTOR SHALL INFORM M&O, ELECTRIC, SAFETY, INFECTION CONTROL, PROJECT ENGINEER, AND ADMINISTRATIVE OFFICER FOR AFFECTED SERVICES THE START DATE OF OUTAGE AND LENGTH OF DOWN TIME FOR EACH PHASE. PROVIDE MINIMUM 48 HOURS NOTICE PRIOR TO THE START OF EACH PHASE.
- CONTRACTOR SHALL IMPLEMENT ALL NECESSARY PROTECTIVE MEASURES WHEN WORKING ABOVE PATIENT/STAFF AREAS IN THE INTERSTITIAL.

ABBREV. DESCRIPTION

ABV	ABOVE CEILING
AC	AIR CONDITIONED
A/C	AIR COOLED CHILLER
ACC	ACCESS DOOR
AD	AIR FOIL
AF	ABOVE FINISHED FLOOR
AFF	AIR HANDLING UNIT
AHU	AIR MOVING AND CONDITIONING
AMCA	ASSOCIATION, INC.
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ARI	AIR CONDITIONING & REFRIGERATION INSTITUTE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AV	AUTOMATIC AIR VENT ASSEMBLY

B	BOILER
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT

CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CLG	CEILING
CWP	CONDENSER WATER PUMP
CO	CLEANOUT
CONN	CONNECTION
CONT	CONTINUATION
CP	CONTROLLABLE PITCH
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	COLD WATER
CL	CENTER LINE

D	DRAIN
DB	DRY BULB
DCP	DATA COLLECTION PANEL
DG	DOOR GRILLE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION

EAT	EACH
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION

EG	EXHAUST GRILLE
ENT	ENTERING
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EWI	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING

F	DEGREES FAHRENHEIT
FBP	FAN-PACKAGED BOX
FCU	FAN & COIL UNIT
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FM	FACTORY MUTUAL
FO	FLAT OVAL DUCT
FFM	FEET PER MINUTE
FT	FEET, FOOT
FS	FLOW SWITCH

GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HR	HOUR
HP	HORSEPOWER
H	HIGH, HEIGHT
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HWP	HOT WATER PUMP
HZ	HERTZ

GENERAL NOTES:

- UNLESS NOTED AS EXISTING, ALL MATERIALS, EQUIPMENT, MANUFACTURED ITEMS AND ASSEMBLIES INCORPORATED INTO THE WORK SHALL BE NEW.
- UNLESS NOTED TO BE REMOVED AND DISPOSED, ALL EXISTING ITEMS ARE TO REMAIN. THEY SHALL BE PROTECTED FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES. ANY EXISTING ITEMS TO REMAIN THAT BECOME DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING AT NO ADDITIONAL COST TO OWNER.
- ALL ITEMS NOTED TO HAVE PAINT FINISH SHALL BE THOROUGHLY CLEANED AND PROPERLY PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE APPLICATION OF PRIMER AND PAINT.

ABBREV. DESCRIPTION

ID	INSIDE DIAMETER
IE	INVERT ELEVATION (FLOW LINE)
IN	INCHES
INSUL	INSULATION
IN WG	INCHES OF WATER
KW	KILOWATT(S)
L	LONG, LENGTH
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LVR	LOUVER
MAX	MAXIMUM
MD	MANUAL DAMPER
MECH	MECHANICAL
MIN	MINIMUM
MS	MOTOR STARTER

NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAH	OUTSIDE AIR INTAKE HOOD
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER

PBD	PARALLEL BLADE DAMPER
PCHP	PRIMARY CHILLED WATER PUMP
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSL	PSI POUNDS PER SQUARE INCH (GAUGE)
PHG	PRESSURE HIGH LIMIT

R-22	REFRIGERANT (TYPE AS NOTED)
RA	RETURN AIR
RET	RETURN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHD	RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT

SA	SUPPLY AIR
SCH	SCHEDULE
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SEC	SECOND
SF	SUPPLY FAN
SMACNA	-
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SF	SQUARE FOOT
STD	STANDARD
STL	STEEL
SW	SWITCH

TEMP	TEMPERATURE
THL	TEMPERATURE HIGH LIMIT
TLL	TEMPERATURE LOW LIMIT
TSTAT	THERMOSTAT
TXV	THERMOSTATIC EXPANSION VALVE
TYP	TYPICAL
UF	UNDER FLOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES

V-12	CONTROL VALVE NUMBER
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX
VEL	VELOCITY
VENT	VENTILATE
VF	VENTILATION FAN
VOL	VOLUME
VOLT	VOLTAGE
W	WIDE, WIDTH
W/	WITH
WB	WET BULB
W/O	WITHOUT

GENERAL PROJECT NOTES

THESE GENERAL PROJECT NOTES ARE PART OF THE CONTRACTOR'S SCOPE OF WORK. THEY SHALL BE FOLLOWED IN CONJUNCTION WITH AND IN ADDITION TO SECTION 01010 - GENERAL REQUIREMENTS OF THE SPECIFICATIONS AND SHALL BE INCLUDED AS PART OF THE CONTRACTOR'S BASE BID.

COORDINATION:

- THE CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING AND FULLY UNDERSTANDING ALL ASPECTS OF THE CONTRACT DOCUMENTS INCLUDING COORDINATION BETWEEN THE DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE RESIDENT ENGINEER'S ATTENTION IN WRITING FOR CLARIFICATION.
- IN THE EVENT THAT A DISCREPANCY IS DISCOVERED BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CONTRACTOR IS UNABLE TO RECEIVE CLARIFICATION PRIOR TO SUBMISSION OF THE BASE BID, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING IN THE PRICING THE WORK OR ITEMS OF GREATEST VALUE, ANY OMISSION OR CLAIM OF OMISSION IN THE BID BECAUSE OF SUCH A DISCREPANCY WILL NOT, UNDER ANY CIRCUMSTANCES, BE GROUNDS FOR ADDITIONAL COSTS TO THE OWNER AFTER THE BID IS AWARDED.

- THE CONTRACTOR SHALL INSURE THAT SERVICES TO ADJACENT AREAS AFFECTED BY CONSTRUCTION WILL REMAIN FULLY OPERATIONAL DURING CONSTRUCTION. IF ANY DISRUPTION OF SERVICES IS NECESSARY, THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AT LEAST 48 HOURS IN ADVANCE PRIOR TO SUCH DISRUPTION. REFER TO SPECIFICATION SECTION 01 00 00.1.5 "OPERATIONS AND STORAGE AREA", SUBSECTION L, "UTILITIES SERVICES".

EXISTING CONDITIONS:

- THE CONTRACTOR SHALL FIELD VERIFY AND INVESTIGATE ALL EXISTING BUILDING CONDITIONS IN ORDER TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF DEMOLITION AND NEW CONSTRUCTION AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REASONABLY DETERMINE THE IMPACT THAT DEMOLITION AND NEW CONSTRUCTION WILL HAVE ON EXISTING BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, COMMUNICATION, FIRE PROTECTION SYSTEMS AND ALL OTHER FACTORS THAT WILL AFFECT THE BID. FAILURE TO DO SO WILL NOT BE GROUNDS FOR ADDITIONAL COSTS TO THE OWNER AFTER BID HAS BEEN AWARDED.
- THE CONTRACTOR SHALL COORDINATE AND CONFIRM IN WRITING THE LOCATIONS OF ALL UNEXPOSED UTILITY LINES WITH THE RESIDENT ENGINEER PRIOR TO PROCEEDING WITH ANY WORK. IF THE CONTRACTOR PROCEEDS WITHOUT SUCH PRIOR COORDINATION EFFORTS AND WRITTEN NOTICES AND DAMAGE OCCURS, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING OR REPAIRING SUCH DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL REPORT ALL UNFORESEEN CONDITIONS DISCOVERED DURING INSPECTIONS OR DURING CONSTRUCTION IMMEDIATELY TO THE RESIDENT ENGINEER FOR CLARIFICATION OR DIRECTION, BEFORE CONTINUING WITH THAT PORTION OF THE WORK. UNFORESEEN CONDITIONS MAY INCLUDE BUT NOT BE LIMITED TO CONDITIONS NOT VISUALLY DISTINGUISHABLE OR DISCREPANCIES BETWEEN ACTUAL EXISTING CONDITIONS AND AS-BUILT INFORMATION.
- THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION OUTSIDE OF THE CONSTRUCTION LIMITS LINE DAMAGED BY CONTRACTOR'S OPERATIONS AND CONSTRUCTION ACTIVITIES AND FOR ALL AREAS WITHIN THE CONSTRUCTION LIMITS LINE DAMAGED AND NOT INDICATED IN THESE DOCUMENTS TO BE REMOVED. EXISTING CONSTRUCTION MAY INCLUDE BUT NOT BE LIMITED TO EXPOSED OR UNEXPOSED UTILITIES, ADJACENT AREAS OF THE EXISTING BUILDING, WALLS, FINISHES, ETC. INCLUDING INTERSTITIAL SPACES.

- IN ALL AREAS WHERE MODIFICATIONS CAN ONLY OCCUR BY ACCESSING THROUGH ANOTHER OCCUPIED AREA OF THE FACILITY, THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID ALL WORK ASSOCIATED WITH PATCHING AND REPAIRING CEILINGS, WALLS, MEP SYSTEMS, ETC. DAMAGED, DISRUPTED, OR DISAPPEARED AS A RESULT OF THIS ACCESS. THE CONTRACTOR SHALL USE FINISHES AND MATERIALS TO MATCH EXISTING.
- THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS INCLUDING FLOOR TO FLOOR HEIGHTS, FLOOR TO CEILING HEIGHTS, SPOT ELEVATIONS PRIOR TO PROCEEDING WITH WORK. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE RESIDENT ENGINEER'S ATTENTION FOR CLARIFICATION.

SAFETY/ SECURITY:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE AND LAWFUL REMOVAL AND OFF-SITE DISPOSAL OF ALL TRASH, DEBRIS OR UNSALVAGED ITEMS REMOVED DURING DEMOLITION IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS INCLUDING CITY OF SAN ANTONIO, COUNTY AND STATE REGULATIONS. THE PROJECT SITE SHALL BE CLEANED ON A DAILY BASIS OR AS DIRECTED BY THE RESIDENT ENGINEER DURING CONSTRUCTION ACTIVITIES TO PREVENT ACCUMULATION.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS FOR CONSTRUCTION SAFETY AND INSPECTION PROCEDURES.
- THE CONTRACTOR SHALL CONFINE OPERATIONS WITHIN A CONSTRUCTION LIMITS LINE AS TO PREVENT WORKERS, MATERIALS OR EQUIPMENT INTO OTHER AREAS OUTSIDE OF THE CONSTRUCTION LIMITS LINE OCCUPIED BY PATIENTS, STAFF OR IN AREAS OCCUPIED BY THE GENERAL PUBLIC. UNLESS OTHERWISE REQUIRED BY THESE DOCUMENTS IN ACCORDANCE WITH ITEM NO. 10 ABOVE, IN THIS CASE THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT AND PROVIDE SAFETY AND SECURITY FOR ALL OCCUPANTS.
- THE CONTRACTOR SHALL PROVIDE SECURITY MEASURES AS REQUIRED FOR PROTECTION FROM VANDALISM, THEFT, DAMAGE TO CONSTRUCTION SITE AND PROTECTION OF THE GENERAL PUBLIC FROM HAZARDOUS OR DANGEROUS CONDITIONS AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCTION DRAWINGS:

- THE CONTRACTOR SHALL KEEP AND MAINTAIN AT THE CONSTRUCTION SITE, 2 COMPLETE AND UPDATED SETS OF CONSTRUCTION DRAWINGS AND SPECIFICATIONS AT THE CONSTRUCTION SITE THROUGH THE DURATION ALL PHASES OF CONSTRUCTION FOR REVIEW AND REFERENCE BY THE RESIDENT ENGINEER AND ARCHITECT. THIS INCLUDE ALL DOCUMENTS CHANGING, MODIFYING OR REVISING THE SCOPE OF WORK AND/OR THE COST OF THE PROJECT. REFER TO SPECIFICATION SECTION 01010, 1.12 "AS BUILT DRAWINGS".

CORRESPONDENCE/ INSTRUCTIONS:

- ALL CORRESPONDENCE INCLUDING BUT NOT LIMITED TO CHANGES IN THE SCOPE OF WORK, CHANGES IN COST, REQUESTS FOR INFORMATION, DIRECTIONS, INSTRUCTIONS, APPROVALS, CLARIFICATIONS, GENERAL CORRESPONDENCE, ETC. SHALL BE DIRECTED TO THE RESIDENT ENGINEER.

MISCELLANEOUS:

- THE TERM "PROVIDE" AS USED IN THESE CONTRACT DOCUMENTS MEANS ALL WORK TO BE ACCOMPLISHED BY THE CONTRACTOR TO INCLUDE FURNISHING, INSTALLING, MODIFYING AND CONNECTING ALL SPECIFIED ITEMS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- THE TERMS "LIKE OR SIMILAR TO", "APPROVED EQUIPMENT", "EQUAL TO", "ACCEPTABLE", "MATCH EXISTING" OR OTHER GENERAL QUALIFYING TERMS MEAN THAT MATERIALS SPECIFIED HAVE BEEN SUBSTITUTED BY THE GENERAL CONTRACTOR WITH MATERIALS SIMILAR IN QUALITY AND PERFORMANCE THAT THE ARCHITECT HAS DETERMINED ARE