



























































SPECIAL SYSTEMS

UT	FACILITY TRANSFORMER
S	PAD MOUNTED SWITCH
CC	CONNECTION CABINET (UTILITY METER MOUNT)
PM	PRIMARY SITE METER ENCLOSURE
ME	METER ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
CT	CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
MH	MANHOLE -- POWER OR COMMUNICATION AS INDICATED ON PLANS
HH	HAND HOLE -- POWER OR COMMUNICATION AS INDICATED ON PLANS
EG	ENGINE GENERATOR
TP	TELECOMMUNICATION PEDESTAL
FVP	TELEVISION PEDESTAL

FIRE ALARM		MOUNTING	
SYMBOL	DESCRIPTION	LOC.	BY
	CONTROL PANEL	WALL	—
	ANNUNCIATOR PANEL		
	PULL STATION	WALL	+44"
	FIREMAN'S TELEPHONE OUTLET		
	HORN NOTIFICATION		
	SPEAKER NOTIFICATION		
	CHIME NOTIFICATION		
	COMBINATION SPEAKER AND CHIME NOTIFICATION	WALL	+80" UON
	SPEAKER/HORN WITH STROBE LIGHT		
	STROBE LIGHT ONLY		
	BELL (GONG)		
	PHOTOELECTRIC SMOKE DETECTOR		
	IONIZATION SMOKE DETECTOR		
	BEAM TRANSMITTER	CEILING	SURFACE
	BEAM RECEIVER		
	COMBINATION RATE OF RISE /FIXED TEMPERATURE		
	FIXED TEMPERATURE, TEMPERATURE AS NOTED ON PLANS OR SPECIFICATIONS		
	RATE OF RISE ONLY		
	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR	SEE PLANS
	DUCT DETECTOR	AT DUCT	SEE PLANS
	FIRE/SMOKE DAMPER		
	PRESSURE SWITCH		
	TAMPER SWITCH	PIPE	VARIES
	FLOW SWITCH		
	POST INDICATOR VALVE		
	MAGNETIC DOOR HOLDER		
	CONTROL RELAY		
	MONITOR MODULE	VARIES	SEE PLANS
	REMOTE ALARM INDICATING LIGHT		
	ADDRESSABLE/SUPERVISED RELAY		

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, RATING/NO. POLES, SETTINGS AND PROTECTION AS NOTED IN SPECIFICATION OR ON DRAWINGS
	DRAWOUT CIRCUIT BREAKER (TRIP SETTING / FRAME SIZE)
	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER (TRIP SETTING / FRAME SIZE)
	TRANSFORMER NAME, TRANSFORMER KVA, RATING, PRIMARY VOLTAGE AND WIRING CONNECTION, SECONDARY VOLTAGE AND WIRING CONNECTION, K RATING (IF APPLICABLE)
	CURRENT TRANSFORMER, NUMBER "3000/5" DENOTES RATIO, NUMBER "3" DENOTES QUANTITY
	POTENTIAL TRANSFORMER, NUMBER "2" DENOTES QUANTITY
	DISCONNECT SWITCH, "300A" DENOTES AMPERAGE RATING
	FUSED DISCONNECT SWITCH, "300A" DENOTES AMPERAGE RATING
	CIRCUIT BREAKER WITH GROUND FAULT FUNCTION
	CIRCUIT BREAKER WITH SHUNT TRIP OPERATOR
	GROUNDING ELECTRODE
	TRANSFER SWITCH, SEE PLANS FOR TYPE OF SWITCH
	LIGHTNING ARRESTOR
	SURGE PROTECTIVE DEVICE
	KILOWATT METER
	ELECTRONIC METER
	KIRK KEY INTERLOCK No.1
	RELAY No.1
	AMMETER SWITCH
	AMMETER
	VOLTMETER SWITCH
	VOLTMETER
	DELTA CONNECTED
	WYE CONNECTED
	GENERATOR
	VFD CONNECTION
	MOTOR CONNECTION
	UPS

SPECIAL SYSTEMS			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	Ht.
	FLOOR MOUNTED DATA OUTLET	FLOOR	VARIES SEE PLANS
	FLOOR MOUNTED VOICE\DATA		
	FLOOR MOUNTED TELEPHONE OUTLET		
	FLOOR MOUNTED MICROPHONE OUTLET		
	DATA OUTLET	WALL	+18" UON
	VOICE\DATA OUTLET		
	TELEPHONE OUTLET		
	TELEPHONE OUTLET WALL MOUNTED	WALL	+48" UON
	MICROPHONE		
	INTERCOM CALL SWITCH		
	COMMUNICATION HORN	WALL	+84" UON
	COMMUNICATION BELL		
	WALL SPEAKER FOR LOCAL SOUND SYSTEM		
	J-BOX FOR TELEVISION OUTLET		
	WALL SPEAKER	WALL	+108" UON
	GLOBAL POSITIONING SATELLITE RECEIVER FOR CLOCK SYSTEM	ON ROOF	SEE PLANS
	WIRELESS ACTIVATION POINT	WALL	+108"
	COMBINATION CLOCK/SPEAKER MOUNTED ABOVE AND CENTER TO WRITING/TACK BOARD	WALL	SEE PLANS
	CEILING SPEAKER	CEILING	FLUSH
	CABLE TRAY FOR COMMUNICATIONS	ABOVE CEILING	SEE DETAIL
	J-HOOK ROUTING PATH		
	TELEPHONE TERMINAL BACKBOARD (TIB) AROUND PERIMETER OF ROOM	WALL	SEE PLANS
	FLUSH MOUNTED CABINET	WALL	+6" - 7" TOP OF CABINET
	SURFACE MOUNTED CABINET		
	VIDEO INPUT	WALL	+44" UON

DEMOLITION		
SYMBOL	DESCRIPTION	NOTES
	DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED	REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION
	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	
	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	

THIS PROJECT IS INTENDED TO REPLACE AUTOMATIC TRANSFER SWITCHES (ATS'S) LOCATED THROUGHOUT THE EXISTING HOSPITAL CAMPUS. THESE ATS'S HAVE REACHED THE END OF THEIR USEFUL LIFE, AND REQUIRE REPLACING.

BECAUSE THIS IS AN EXISTING FACILITY THAT IS FULLY OPERATIONAL, CARE MUST BE TAKEN AND PLANNING MUST BE COMPLETED BY THE CONTRACTOR ACCORDING TO THE SCOPE OF THIS PROJECT.

THE CONTRACTOR WILL BE REQUIRED TO DEVELOP AND SUBMIT A WORK PLAN AND SCHEDULE TO THE COTR. NO WORK SHALL BE STARTED WITHOUT APPROVAL OF THE SUBMITTED WORK PLAN AND SCHEDULE FROM THE COTR.

IT SHOULD BE PLANNED TO COMPLETE MOST, IF NOT ALL WORK AT NIGHT AND ON WEEKENDS. HOWEVER, THE FINAL SCHEDULE APPROVAL SHALL BE FROM COTR.

FOR EACH BUILDING WHERE ATS'S ARE TO BE REPLACED, THE CONTRACTOR SHALL COORDINATE WITH THE HOSPITAL MAINTENANCE STAFF, AND PRIMARY FEED TO EACH ITS. ROOMS LOCATED ADJACENT TO THE ELECTRICAL ROOMS: EACH TEMPORARY FEED WILL BE A MINIMUM OF 30 AMPS AND 120/208V SINGLE PHASE, APPROXIMATELY 50 FT. IN LENGTH. THE CONTRACTOR SHALL TEMPORARILY CONNECT EACH UPS TO THIS FEED WHILE THE ATS REMOVAL/REPLACEMENT IS BEING COMPLETED. UPON COMPLETION OF THE ATS REMOVAL/REPLACEMENT FOR THE BUILDING, EACH UPS SHALL BE RE-CONNECTED TO ITS ORIGINAL FEEDER. THE WORK SHALL BE DONE ON A "BUILD BY BUILDING" BASIS, AND THESE TEMPORARY FEEDS CAN BE RE-USED AT EVERY BUILDING. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL NECESSARY FOR THIS WORK. FOR BIDDING PURPOSES, PROVIDE A TOTAL OF TWENTY (20) TEMPORARY FEEDS TO ITS EQUIPMENT.

THE WORK PLAN SUBMITTED BY THE CONTRACTOR SHALL PROVIDE DETAILED INFORMATION THAT INCLUDES, BUT IS NOT LIMITED TO ADDRESSING THE FOLLOWING:

1. THE CONTRACTOR SHALL OBTAIN FIELD SERVICES FROM THE ATS MANUFACTURER TO ADVISE, ASSIST, INSTALL AND PROVIDE TESTING OF EACH ATS (GEAR MOUNTED AND FREE-STANDING). FIELD SERVICES PERSONNEL SHALL BE PRESENT FOR ALL PHASES OF THE PROJECT.
2. NO NEW ATS'S SHALL BE PUT INTO SERVICE WITHOUT FACTORY TESTING TO VERIFY EACH ATS MEETS THE FACTORY INSTALLATION SPECIFICATIONS.
3. PRIOR TO EACH ATS CHANGE-OUT BEING CONSIDERED "COMPLETE", THE CONTRACTOR SHALL PROVIDE FIELD TEST REPORTS COMPLETED BY THE ATS MANUFACTURERS FIELD SERVICES PERSONNEL THAT CERTIFIES THE ATS'S HAVE BEEN INSTALLED AND CONNECTED ACCORDING TO FACTORY STANDARDS.
4. ALL ATS'S PROVIDED BY THE CONTRACTOR SHALL BE COMPATIBLE WITH THE EXISTING SWITCHGEAR, AND ALL EXISTING ASSEMBLIES SHALL MAINTAIN THEIR UL LISTINGS.
5. EACH ATS CHANGE-OUT MAY BE CONSIDERED INDIVIDUALLY, AND CONSIDERATION SHALL BE GIVEN TO VERIFY THAT THE CHANGE-OUT OF EACH ATS CAN BE COMPLETED IN AS TIMELY AND SAFE MANNER AS IS POSSIBLE. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL WORK AHEAD WITH THE COTR.
6. IF, DURING AN ATS CHANGE-OUT, AN UN-PLANNED OUTAGE OCCURS, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT THE HOSPITAL PERSONNEL.
7. SCHEDULED OUTAGES SHALL BE DOCUMENTED IN THE WORKPLAN, AND SHALL BE FULLY REVIEWED AND APPROVED BY THE COTR IN ADVANCE.
8. WITH THE EXISTING OF BUILDING 45, EACH SCHEDULED OUTAGE SHALL BE FOR NO MORE THAN TWO (2) HOURS. THIS INCLUDES TEMPORARY CONNECTIONS DURING ATS CHANGES, AND REMOVAL/REPLACEMENT OF FREE-STANDING ATS SWITCHES.
9. BUILDING 45 WILL REQUIRE CONNECTION OF A TEMPORARY GENERATOR PROVIDED BY THE CONTRACTOR. EACH PANEL BEING FED FROM EACH ATS WILL BE TEMPORARILY FED FROM THIS GENERATOR WHILE THE ATS IS BEING CHANGED-OUT. THE MAXIMUM OUTAGE ALLOWED FOR EACH BUILDING IS 30 MINUTES. EACH ATS WILL BE CHANGED OUT ON AN INDIVIDUAL BASIS, AND EACH PANEL WILL BE RE-FED INDIVIDUALLY AS WELL.

Department of
Veterans Affairs