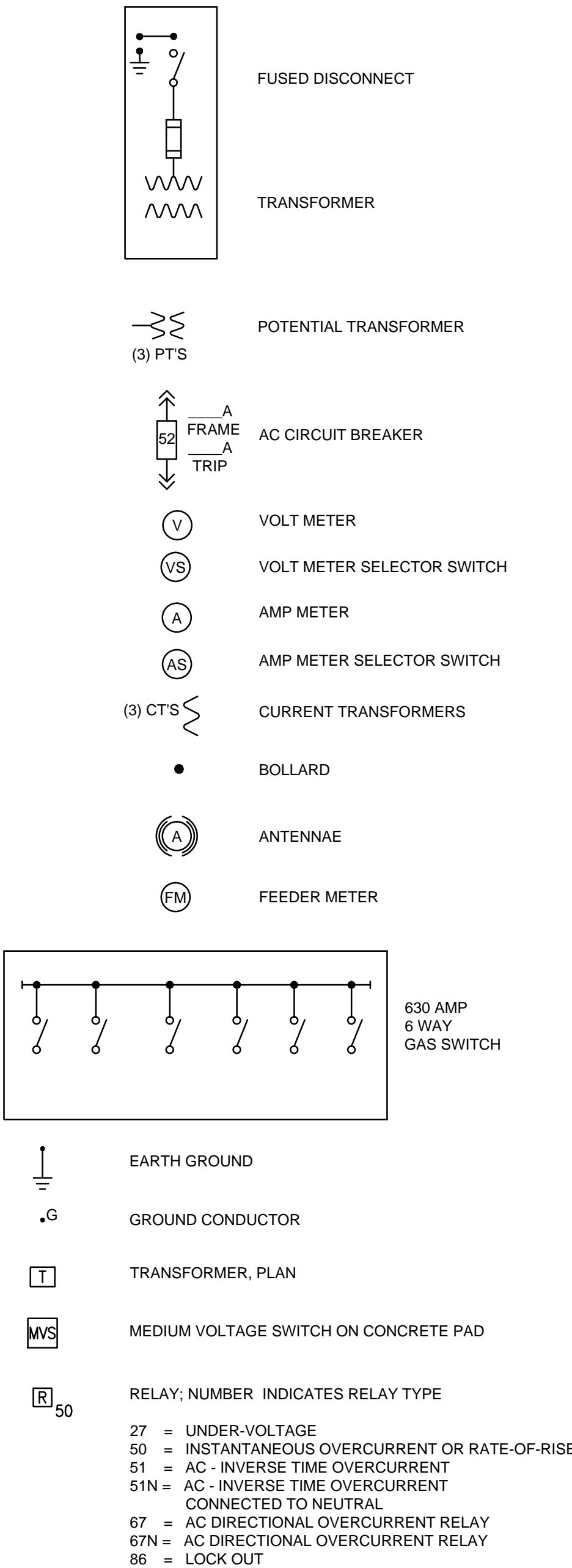


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

ELECTRICAL ABBREVIATIONS

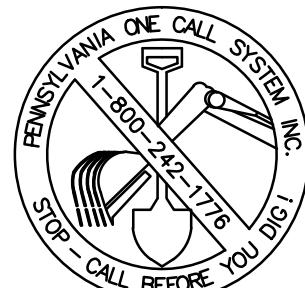
1PH	SINGLE-PHASE	FA	FIRE ALARM
1P	SINGLE POLE	FAP	FIRE ALARM ANNUNCIATOR PANEL
2/C	TWO-CONDUCTOR	FABL	FIRE ALARM BELL
3/C	THREE-CONDUCTOR	FABX	FIRE ALARM BOX
3PH	THREE-PHASE	FACP	FIRE ALARM CONTROL PANEL
4C	FOUR-CONDUCTOR	FC	FOOTCANDLE
4W	FOUR-WIRE	FI	FILM ILLUMINATOR
A/C UNIT	AIR CONDITIONING UNIT	FIXT	FIXTURE
A/E	ARCHITECT/ENGINEER	FLA	FULL LOAD AMPS
AAP	ALARM ANNUNCIATOR PANEL	FLEX	FLEXIBLE METALLIC CONDUIT
AC	ALTERNATING CURRENT OR ARMORED CABLE	FLT	FLOODLIGHT
ACC	ACCESSIBLE	FLUOR	FLUORESCENT
ADDL	ADDITIONAL	FLUOR FIX	FLUORESCENT FIXTURE
ADJ	ADJACENT, ADJOINING	FOUTT	FIRE PROTECTION
ADO	AUTOMATIC DOOR OPENER	FT	FEET OR FOOT
AF	AMPERE FRAME OR AMP FUSE	FU SW	FUSED SWITCH
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT	FVNR	FULL VOLTAGE NON-REVERSING
AFF	ABOVE FINISHED FLOOR	PVR	FULL VOLTAGE REVERSING
AFG	ABOVE FINISHED GRADE	G OR GND	GROUND OR GENERATOR
AH	AMPERE HOUR	GEN	GENERATOR
AHJ	AUTHORITY HAVING JURISDICTION	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AIC	AMPERE INTERRUPTING CAPACITY	GTB	GROUND TERMINAL BOX
ALT	ALTERNATE	HID	HIGH INTENSITY DISCHARGE
AMB OR A	AMBIENT	HOA	HAND-OFF-AUTOMATIC
AMP	AMPERE	HP	HORSEPOWER
ARCH	ARCHITECT	HT	HEIGHT
ASC	AMPS SHORT CIRCUIT	HZ	HERTZ
AT	AMPERE TRIP	IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
ATS	AUTOMATIC TRANSFER SWITCH	IMC	INTERMEDIATE METAL CONDUIT
AUTO	AUTOMATIC	INCAND	INCANDESCENT
AV	AUDIO VISUAL	IR	INFRARED
BAT	BATTERY	IWH	INSTANTANEOUS WATER HEATER
BC	BARE COPPER	J-BOX	JUNCTION BOX
BD	BOARD	KV	KILOVOLT
BFF	BELOW FINISH FLOOR	KVA	KILOVOLT AMPERE
BIL	BASIC INSULATION LEVEL	KVAH	KILOVOLT AMPERE PER HOUR
BLDG	BUILDING	KVAR	KILOVOLT AMPERE REACTIVE
BPIP	BOILER PLANT INSTRUMENTATION PANEL	KW	KILOWATT
BRKR	BREAKER	KWH	KILOWATT HOUR
BYP	BY PASS	KWHM	KILOWATT HOUR METER
C	CONDUIT	LED	LIGHT EMITTING DIODE
CAB	CABINET	LF	LINEAR FEET (FOOT)
CALC	CALCULATE	LM	LUMEN
CAP	CAPACITY	LP	LIGHT POLE
CAT	CATALOG	LPS	LOW PRESSURE SODIUM
CATV	COMMUNITY ANTENNA TELEVISION	LRA	LOCKED ROTOR AMPS
CCR	CONTROL CIRCUIT	LTCP	LOCAL TEMPERATURE CONTROL PANEL
CCTV	CLOSED CIRCUIT TELEVISION	LT	LIGHT
cd	CANDELA	LTG	LIGHTING
CD	CONSTRUCTION DOCUMENTS	LTG PNL	LIGHTING PANEL
CF	CONTRACTOR FURNISHED	LTNG	LIGHTNING
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	LV	LOW VOLTAGE
CFI	CONTRACTOR FURNISHED/OWNER INSTALLED	MATV	MASTER ANTENNA TELEVISION SYSTEM
CFE	CONTRACTOR FURNISHED EQUIPMENT	MAX	MAXIMUM
CHWP	CHILLED WATER PUMP	MC	METAL-CLAD
CKT	CIRCUIT	MCA	MINIMUM CIRCUIT AMPS
CKT BRKR	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE	MCC	MOTOR CONTROL CENTER
CLG	CEILING	MDP	MAIN DISTRIBUTION PANEL
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL
COAX	COAX CABLE	MG	MOTOR GENERATOR
COMM	COMMUNICATION	MH	MANHOLE
COMPT	COMPARTMENT	MIN	MINIMUM
CONC	CONCRETE	MOCP	MAXIMUM OVERCURRENT PROTECTION
CONIT	CONTINUE	MLO	MAIN LUGS ONLY
CONTR	CONTRACTOR	MT	MOUNT
COORD	COORDINATE	MTD	MOUNTED
CPT	CONTROL POWER TRANSFORMER	MTG	MOUNTING
CRI	COLOR RENDERING INDEX	MTS	MANUAL TRANSFER SWITCH
CT	CURRENT TRANSFORMER	MV	MEDIUM VOLTAGE
CTV	CABLE TELEVISION	MVS	MEDIUM VOLTAGE SWITCH
CU	COPPER	MVA	MEGAVOLT-AMPERE
CU FT	CUBIC FEET	MW	MEGAWATT MICROWAVE
CUR	CURRENT	NA	NOT APPLICABLE
DB	DECIBEL OR DIRECT BURIAL	NEC	NATIONAL ELECTRICAL CODE
DC	DIRECT CURRENT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
DCP	DIMMER CONTROL PANEL	NEUT OR N	NEUTRAL
DEG C	DEGREES CELSIUS	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DEG F	DEGREES FAHRENHEIT	NIC	NOT IN CONTRACT
DEMO	DEMOLITION	NL	NIGHT LIGHT
DIAG	DIAGRAM	NO	NORMALLY OPEN
DISC	DISCONNECT	NS	NO SCALE
DISTR	DISTRIBUTION	NTS	NOT TO SCALE
DISTR PNL	DISTRIBUTION PANEL	OC	ON CENTER
DMR SW	DIMMER SWITCH	OD	OUTSIDE DIAMETER
DN	DOWN	OL	OVERLOAD
DPDT	DOUBLE POLE, DOUBLE THROW	P	POLE
DPST	DOUBLE POLE, SINGLE THROW	PA	PUBLIC ADDRESS
DRSW	DOOR SWITCH	PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
DS	DISCONNECT SWITCH	PBJU	PREFABRICATED BEDSIDE PATIENT UNIT
DWG	DRAWING	PCB	POLYCHLORINATED BIPHENYL
EC	EMPTY CONDUIT	PEC	PHOTOELECTRIC CELL
EG	EQUIPMENT GROUND	PED	PEDESTAL
EG	ELEVATION	PEND	PENDANT
ELEC	ELECTRIC OR ELECTRICAL	PF	POWER FACTOR
ELEV	ELEVATOR	PH	PHASE
EMCP	EMERGENCY MONITORING CONTROL PANEL	PNL	PANEL
EMER	EMERGENCY	POD	POWER OPERATED DAMPER
EMI	ELECTROMAGNETIC INTERFERENCE	PT	POTENTIAL TRANSFORMER
EMT	ELECTRICAL METALLIC TUBING	PTRV	POWER TYPE ROOF VENTILATION
ENCL	ENCLOSURE	PVC	POLYVINYL CHLORIDE (PLASTIC)
EPO	EMERGENCY POWER OFF	PWR	POWER
EPRF	EXPLOSION PROOF		
ESMT	EASEMENT		
ETR	EXISTING TO REMAIN		
EWC	ELECTRIC WATER COOLER		
EVH	ELECTRIC WATER HEATER		
EXIST	EXISTING		

ELECTRICAL SYMBOLS



GENERAL NOTES

- EXISTING UTILITY INFORMATION WAS OBTAINED FROM RECORD DRAWINGS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL EMPLOY A UTILITY LOCATING COMPANY TO LOCATE AND MARK ALL EXISTING UTILITIES. PROVIDE TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE BURIAL DEPTHS AND EXISTING UTILITIES. MARKING, IDENTIFYING AND PROVIDING TEST PITS SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION.
- COORDINATE ALL POWER OUTAGES WITH OWNER PRIOR TO CUTTING ANY SERVICE, CONDUIT OR CABLE. OUTAGES SHALL BE KEPT TO AN ABSOLUTE MINIMUM.
- EXISTING UTILITIES DAMAGED DURING WORK BEING PERFORMED FOR THIS PROJECT SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
- ANY UTILITIES FOUND DURING EXCAVATION NOT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED EXCAVATION, SHORING REMOVAL AND BACKFILL TO PERFORM THE WORK INDICATED.
- THE ELECTRICAL CONTRACTOR SHALL SUBMIT A COMPLETE SCHEDULE OF CONSTRUCTION TO THE VA INDICATING THEIR PROPOSED OUTAGE SCHEDULE. THE SCHEDULE SHALL INCLUDE PROPOSED DATES AND DURATIONS FOR ALL OUTAGES REQUIRED. OUTAGES SHALL TAKE PLACE ON THE WEEKENDS. OUTAGE SHALL START FRIDAY AT 1730 HOURS AND BE COMPLETED BY SUNDAY AT 2400 HOURS.
- ALL REQUESTS FOR OUTAGES SHALL BE DONE IN WRITING TO THE VA. ALL OUTAGES MUST BE REQUESTED A MINIMUM OF 14 WORKING DAYS PRIOR TO THE SCHEDULED OUTING.
- ALL SHUTDOWNS SHALL BE KEPT TO AN ABSOLUTE MINIMUM, WITH THE CONTRACTOR PROVIDING ALL OF THE REQUIRED BACK UP POWER AND MANPOWER TO ENSURE RESTORATION OF NORMAL POWER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING HVAC IN THE FOLLOWING BUILDINGS AND AREAS REQUIRE HVAC:  
BUILDING #1 : STERILE STORAGE ROOMS  
RM. 016, 111, 346a, 369, 472, 523, 572  
BUILDING #17 : PHARMACY  
CANTEN STORAGE AND RETAIL AREA  
STERILE STORAGE ROOMS: 209, 264, 320, 369, 460, 536, 578  
BUILDING #22 : STERILE STORAGE ROOMS: 109
- SPLICES IN PRIMARY OR SECONDARY SYSTEM ARE NOT PERMITTED.
- NEW TRANSFORMERS SHALL HAVE THE SAME IMPEDANCE VALUES AS EXISTING TRANSFORMERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ALL MANHOLES AND VAULTS.
- WHERE NEW ARBORVITAE ARE BEING SPECIFIED, EXISTING ARBORVITAE AND VEGETATION SHALL BE REMOVED AND PROPERLY DISPOSED.
- THE OWNER HAS REQUESTED THAT TRANSFORMER T136 BE THE FIRST PIECE OF EQUIPMENT TO BE REPLACED. FURNISH AND INSTALL NEW T136 AND MAKE OPERATIONAL. THEN DISCONNECT AND REMOVE EXISTING T136. THE CONTRACTOR SHALL FAST TRACK THE REPLACEMENT OF THIS EQUIPMENT AND INCLUDE WITHIN MOP. UPON COMPLETION OF T136, THE CONTRACTOR SHALL THEN COMPLETE THE NORTH LOOP SCOPE OF WORK, FOLLOWED BY THE SOUTH LOOP SCOPE OF WORK.



BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA I CALL 1-800-242-1776  
NON-MEMBERS MUST BE CONTACTED DIRECTLY

GENERAL UTILITY & ONE CALL INFORMATION:

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CONTRACTOR SHALL NOTIFY THE PA ONE CALL SYSTEM NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PLACE THE CALL AND PROVIDE AN APPROXIMATE DATE AND TIME THAT DIGGING WILL OCCUR. THE ONE CALL SYSTEM WILL THEN NOTIFY THE PUBLIC AND PRIVATE UTILITIES IN THE AREA. PUBLIC AND PRIVATE UTILITIES WILL THEN COORDINATE DIRECTLY WITH THE CONTRACTOR FOR ACTUAL FIELD LOCATIONS.

PA ONE CALL SYSTEM PHONE 1-800-242-1776

PA ONE CALL SERIAL NUMBER :

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title ELECTRICAL ABBREVIATIONS, SYMBOLS, NOTES AND LINETYPES		Project Title REPLACE OIL SWITCH		Project Number # 595-11-134		Office of Construction and Facilities Management	
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