ELECTRICAL AND LIGHTING SYMBOL LEGEND

ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
CPT	CONTROL POWER TRANSFORMER
CUH	CABINET UNIT HEATER
CUV	CABINET UNIT VENTILATOR
CU	CONDENSING UNIT
DIA	DIAMETER
DPDT	DOUBLE POLE, DOUBLE THROW
EC	ELECTRICAL CONTRACTOR
EHD	ELECTRIC HAND DRYER
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
F	FAN
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FR	FINNED RADIATION
GFI	GROUND FAULT INTERRUPTER
H-O-A	HAND-OFF-AUTOMATIC
HUH	HORIZONTAL UNIT HEATER
HP	HORSEPOWER
HT	HEIGHT
IMC	INTERMEDIATE METALLIC CONDUIT
KCMIL	KILO CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LRA	LOCKED ROTOR AMPERES
LTG	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
N.C.	NORMALLY CLOSED
NO.	NUMBER
N.O.	NORMALLY OPEN
OC	ON CENTER
P	PUMP
PC	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY.	QUANTITY
RAF	RETURN AIR FAN
RCP	RADIANT CEILING PANEL
RGS	RIGID GALVANIZED STEEL
RTU	ROOF TOP UNIT
SCU	SELF-CONTAINED UNIT
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
STP	SHIELDED TWISTED PAIR
SS	SPLIT SYSTEM
TYP	TYPICAL
UH	UNIT HEATER
UG	UNDERGROUND
UTP	UNSHIELDED TWISTED PAIR
V	VOLT, VOLTS
VA	VOLT AMPERES
VAV	VARIABLE AIR VOLUME
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

TYPICAL ANNOTATION

- AREA OF REVISION
- X — REVISION
- X — CIRCLE KEYNOTE
- XX — DEMOLITION KEYNOTE
- XX/XX — EQUIPMENT TAG – REFER TO MECHANICAL AND/OR PLUMBING DRAWINGS
- X — INDICATES KEYED NOTE NUMBER

LIGHTING FIXTURES

MOUNTING HEIGHT		
	RECESSED/SURFACE	LIGHT FIXTURE ENTIRELY CONNECTED TO NORMAL/EMERGENCY CIRCUIT
	RECESSED/SURFACE	LIGHT FIXTURE
	PENDANT	LIGHT FIXTURE ENTIRELY CONNECTED TO SWITCHED NORMAL/EMERGENCY CIRCUIT
	WALL	LIGHT FIXTURE
	WALL	WALL SCONCE
	WALL	NORMAL/EMERGENCY WALL SCONCE
	AS NOTED	INCANDESCENT, FLUORESCENT, OR H.I.D. LIGHT FIXTURE
	AS NOTED	LIGHT FIXTURE WITH ONE OR MORE LAMPS CONNECTED TO NORMAL/EMERGENCY CIRCUIT
	RECESSED/SURFACE	INCANDESCENT, FLUORESCENT, OR H.I.D. DOWNLIGHT
	RECESSED/SURFACE	DOWNLIGHT 'NE'
	RECESSED	INCANDESCENT, FLUORESCENT, OR H.I.D. WALLWASH FIXTURE
	RECESSED	INCANDESCENT, FLUORESCENT, OR H.I.D. WALLWASH FIXTURE 'NE'
	6" ABOVE DOOR JAMB	EXIT SIGN WITH DIRECTIONAL ARROWS WHERE INDICATED
	CEILING	EXIT SIGN WITH DIRECTIONAL ARROWS WHERE INDICATED

EXTERIOR LIGHTS

	SINGLE HEAD POLE LIGHT
	DOUBLE HEAD POLE LIGHT

RECEPTACLES

MOUNTING HEIGHT	
18" AFF	DUPLEX RECEPTACLE-FLUSH
6" ABOVE COUNTER BACKSPLASH	DUPLEX RECEPTACLE-FLUSH-MOUNTED ABOVE COUNTER
18" AFF	DUPLEX RECEPTACLE-FLUSH-WITH GROUND FAULT INTERRUPTER
6" ABOVE COUNTER BACKSPLASH	DUPLEX RECEPTACLE-FLUSH-WITH GROUND FAULT INTERRUPTER-MOUNTED ABOVE COUNTER
24" AFG	DUPLEX RECEPTACLE-EXTERIOR-FLUSH-WITH GROUND FAULT INTERRUPTER-WITH WEATHERPROOF COVER
18" AFF	DUPLEX RECEPTACLE WITH ISOLATED GROUND-FLUSH
18" AFF	DOUBLE DUPLEX RECEPTACLE-FLUSH
18" AFF	SPECIAL PURPOSE RECEPTACLE-SINGLE PHASE
AS NOTED	SURFACE RACEWAY WITH DUPLEX RECEPTACLES AS INDICATED
AS NOTED	SURFACE RACEWAY
CEILING	DUPLEX RECEPTACLE-FLUSH
FLOOR	DUPLEX RECEPTACLE-FLUSH

SWITCHES

MOUNTING HEIGHT		
S	48" AFF	SINGLE POLE TOGGLE SWITCH-FLUSH
S3	48" AFF	THREE WAY TOGGLE SWITCH-FLUSH
S4	48" AFF	FOUR WAY TOGGLE SWITCH-FLUSH
SD	48" AFF	DIMMER SWITCH-1000 WATT UNLESS NOTED OTHERWISE
ST	48" AFF	THERMAL SWITCH-FLUSH
STP	48" AFF	THERMAL SWITCH WITH PILOT LIGHT-FLUSH
H	WALL, AS NOTED	PHOTOELECTRIC CONTROL
H	ROOF, AS NOTED	PHOTOELECTRIC CONTROL

EQUIPMENT

MOUNTING HEIGHT		
	18" AFF	JUNCTION BOX-FLUSH
	X	JUNCTION BOX
	5'-0" AFF	ENCLOSED CIRCUIT BREAKER-RATING AS INDICATED
	5'-0" AFF	SAFETY SWITCH-NON-FUSED (NEMA TYPE 1, UNLESS NOTED OTHERWISE)
	5'-0" AFF	SAFETY SWITCH-FUSED-SWITCH RATING AND FUSE RATING AS INDICATED (NEMA TYPE 1, UNLESS NOTED OTHERWISE)
	5'-0" AFF	COMBINATION STARTER-NEMA SIZE, SWITCH, AND FUSE RATING AS INDICATED (NEMA TYPE 1, UNLESS NOTED OTHERWISE)
	X	EQUIPMENT MOTOR, MOTOR

DISTRIBUTION

MOUNTING HEIGHT/DEPTH	
TOP BREAKER 6'-0" AFF	NEW PANELBOARD – FLUSH MOUNTED
TOP BREAKER 6'-0" AFF	NEW PANELBOARD – SURFACE MOUNTED
	BRANCH CIRCUITING – (2)#12 PER 1 POLE CIRCUIT WITH SEPARATE #12 GROUND WIRE MINIMUM
	HOMERUN TO PANELBOARD – PANEL AND CIRCUIT NUMBER AS INDICATED
	EQUIPMENT ON SAME CIRCUIT BUT SEPARATELY CONTROLLED
	CIRCUITRY MATCH LINE
NE	NORMAL/EMERGENCY CIRCUIT

ELECTRICAL REFERENCE NOTES

ER1. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
- A. ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES
- B. ALL FIRE RATED PARTITIONS AND BUILDING EXPANSION JOINTS
- C. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES

ER2. REFER TO THE HVAC DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
- A. MECHANICAL EQUIPMENT, CONTROL PANELS AND MOTORS
- B. AUTOMATIC TEMPERATURE CONTROL SYSTEM PANELS AND DEVICES
- C. DUCT MOUNTED SMOKE DETECTORS
- D. MOTORIZED DAMPERS AND CONTROL VALVES
- E. ELECTRIC HEAT TRACING OF MECHANICAL PIPING

ER3. REFER TO THE PLUMBING DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
- A. ELECTRIC WATER HEATERS
- B. ELECTRIC FLUSH VALVES
- C. ELECTRIC HEAT TRACING OF PLUMBING AND DRAINAGE PIPING

ER4. REFER TO THE FIRE PROTECTION/SPRINKLER DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
- A. WATER FLOW AND TAMPER SWITCHES
- B. PRE-ACTION AND/OR DELUGE SYSTEM CONTROL PANELS
- C. ELECTRIC HEAT TRACING OF SPRINKLER PIPING

ER5. REFER TO THE APPROPRIATE VENDORS APPROVED DIMENSIONED LAYOUT DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:
- A. CONDUIT CONNECTIONS TO FURNITURE AND PREFABRICATED MILLWORK
- B. ELEVATOR AND ESCALATOR RELATED POWER, LIGHTING AND EMPTY CONDUIT PROVISIONS
- C. POWER AND CONTROL WIRING FOR ELECTRICALLY OPERATED DOORS.

SYMBOL GENERAL NOTES

1. WHERE DEVICE HEIGHT OF 48" OCCURS AT POINT OF CHANGE OF FINISH, THE DEVICE SHALL BE RAISED OR LOWERED TO OCCUR IN ONE FINISH.
2. WHERE DEVICES OCCUR IN BRICK, TILE, OR BLOCK WALLS, THEY SHALL BE MOUNTED AT A VERTICAL MASONRY JOINT AND IN EITHER TOP OR BOTTOM HORIZONTAL JOINT, CLOSEST TO THE MOUNTING HEIGHT.
3. UNLESS OTHERWISE NOTED, ALL MOUNTING HEIGHT DIMENSIONS LISTED ARE TO THE CENTER LINE OF THE WALL BOX OR DEVICE.
4. EXISTING EQUIPMENT SHOWN DASHED.
5. SOME LEGEND SYMBOLS MAY NOT BE USED. SEE FLOOR PLANS FOR APPLICABLE DEVICES.

DRAWING LIST

Project No.: 06230
Project Title: PURCELLVILLE FIRE AND RESCUE FACILITY

SHEET NUMBER	DRAWING TITLE	DESIGN DEVELOPMENT (5-FEB-07)	90% SUBMITTAL (30-JUL-07)	PERMIT SET (23-AUG-07)	BID SET (26-SEP-07)
E-000	ELECTRICAL SYMBOL LEGEND	X	X	X	X
E-002	SITE PLAN – ELECTRICAL		X	X	X
E-100	FIRST FLOOR PLAN – AREA A – LIGHTING	X	X	X	X
E-101	FIRST FLOOR PLAN – AREA B – LIGHTING	X	X	X	X
E-102	MEZZANINE PLAN – LIGHTING		X	X	X
E-200	FIRST FLOOR PLAN – AREA A – POWER	X	X	X	X
E-201	FIRST FLOOR PLAN – AREA B – POWER	X	X	X	X
E-202	MEZZANINE PLAN – POWER		X	X	X
E-300	FIRST FLOOR PLAN – AREA A – TELECOM/FIRE ALERTING			X	X
E-301	FIRST FLOOR PLAN – AREA B – TELECOM/FIRE ALERTING			X	X
E-302	PARTIAL PLAN – ATTIC & MECHANICAL PLAN – AREA A & B – TELECOM/FIRE ALERTING			X	X
E-501	POWER RISER DIAGRAM AND DETAILS	X	X	X	X
E-502	LIGHT FIXTURE SCHEDULE	X	X	X	X
E-503	PANEL SCHEDULES		X	X	X
E-504	PANEL SCHEDULES			X	X

NOTE:
CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS & EXISTING CONDITIONS AT SITE.

BID SET

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PURCELLVILLE FIRE AND RESCUE

500 MAPLE AVE. BUILDING #
PURCELLVILLE, VIRGINIA

ELECTRICAL SYMBOL LEGEND

KEY PLAN

REVISIONS:

ISSUES:
9-26-07 BID SET

STAMP AND SEAL:

DATE: 09-26-07
SCALE: AS NOTED
PROJECT NO. 0611
SHEET: E-000

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