

NURSE CALL SYSTEM LEGEND

N	PATIENT SINGLE BEDSIDE STATION WITH EMERGENCY CALL AND TV CONTROL
N _{CB}	CODE BLUE STATION
N _D	DUTY STATION
N _D	CORRIDOR DOME LIGHT WITH EMERGENCY FLASHER
N _E	EMERGENCY STATION WITH PULLCORD
N _M	ZONE MASTER STATION
N _S	STAFF STATION
N _{SA}	STAFF ASSIST STATION
N _Z	AUXILIARY INTERSECTIONAL/ZONE CORRIDOR DOME LIGHT
N _{PB}	EMERGENCY STATION WITH PUSHBUTTON AND CANCEL
N _B	ROOM CONTROL BOARD
N _L	REMOTE NURSE LOCATOR RECEIVER
N _{IP}	VOICE OVER IP (VOIP)SERVER
N _{POE}	POWER OVER ETHERNET (POE) SWITCH

TELECOMMUNICATIONS LEGEND

▽	DATA OUTLET - MOUNTED 18" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
▽	COMBINATION DATA AND TELEPHONE OUTLET - MOUNTED 18" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE
▽	TELEPHONE OUTLET - MOUNTED 18" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED
▽ _W	WALL TELEPHONE OUTLET
▽ _{WAP}	WIRELESS ACCESS POINT DATA OUTLET
TV	TELEVISION OUTLET - MOUNTED 12" BELOW FINISHED CEILING, UNLESS OTHERWISE NOTED

MISCELLANEOUS ELECTRICAL LEGEND

■	ELECTRICAL PANEL BOARD - SURFACE MOUNTED
■	ELECTRICAL PANEL BOARD - RECESSED MOUNTED
1	INDICATES NOTES ELSEWHERE
Ø	PHASE
----	SWITCH LEG
-----	BRANCH CIRCUIT
- - - - -	SWITCHED CIRCUIT
////	CROSS HATCHING INDICATES EQUIPMENT AND/OR WIRING TO BE RENDERED DEAD AND REMOVED BY EC.
■	PLUGMOLD W/ DUPLEX RECEPTACLES 18" ON CENTER
WxD	CABLE TRAY FOR LOW-VOLTAGE SYSTEM WIRING WIDTH (W) AND DEPTH(D) AS NOTED ON DRAWINGS
NEUTRAL PHASE CONDUCTORS	HOMERUN TO PANEL - ARROWHEADS INDICATE QUANTITY OF CIRCUITS. WIRES INDICATED ARE GREEN GROUND, NEUTRAL AND THREE HOT LEGS (A DIFFERENT PHASE FOR EACH CIRCUIT). MAXIMUM THREE CIRCUITS PER CONDUIT (#12'S IN 3/4" UNO)
No OF CKT'S IN CONDUIT	

FIRE ALARM SYSTEM LEGEND

ANN	FIRE ALARM ANNUNCIATOR PANEL
IAM	INDIVIDUAL ADDRESSABLE MODULE
EACP	FIRE ALARM SYSTEM CONTROL PANEL
EAEP	FIRE ALARM SYSTEM EXTENDER PANEL
ZAM	ZONE ADDRESSABLE MODULE
AV	FIRE ALARM SYSTEM AUDIO/VISUAL TYPE SPEAKER WIADA STROBE
P	FIRE ALARM SYSTEM MANUAL PULL STATION
DD	FIRE ALARM SYSTEM DUCT DETECTOR BY EC, INSTALLED BY HC. ALARM WIRING BY EC, INTERLOCK WIRING TO HVAC EQUIPMENT BY HC (REFER TO DETAIL)
DH	FIRE ALARM SYSTEM - AUTOMATIC DOOR HOLDER UNIT, BY OTHERS - WIRED BY EC
FS	FIRE ALARM SYSTEM - FLOW SWITCH FOR SPRINKLER SYSTEM
SV	FIRE ALARM SYSTEM - SUPERVISED VALVE FOR SPRINKLER SYSTEM
TS	FIRE ALARM SYSTEM - TAMPER SWITCH FOR SPRINKLER SYSTEM
H	FIRE ALARM SYSTEM HEAT DETECTOR
S	FIRE ALARM SYSTEM SMOKE DETECTOR - PHOTO-ELECTRIC
SD	SMOKE DAMPER
OV	FIRE ALARM SYSTEM STROBE

SECURITY SYSTEM LEGEND

OCR	4"x4" OUTLET BOX W/ COVERPLATE FOR CARD READER
OREX	4"x4" OUTLET BOX W/ COVERPLATE FOR REQUEST TO EXIT BUTTON
OEL	4"x4" OUTLET BOX W/ COVERPLATE FOR ELECTRIC LOCK
ODC	4"x4" OUTLET BOX W/ COVERPLATE FOR DOOR CONTACT
OMI	4"x4" OUTLET BOX W/ COVERPLATE FOR MASTER INTERCOM. PROVIDE 1" C BACK TO SPACE DESIGNATED FOR SECURITY HEADEND EQUIPMENT, CAP CONDUIT WITH INSULATED BUSHING
OML	4"x4" OUTLET BOX W/ COVERPLATE FOR MAGNETIC LOCK
OCCTV	JUNCTION BOX FOR CLOSED CIRCUIT TELEVISION (CCTV) MONITOR. PROVIDE 4"x4" EMPTY OUTLET BOX FLUSH WITH WALL AND 1" CONDUIT TO ABOVE CEILING EXTENDED TO NEAREST CABLE TRAY
OPB	4"x4" OUTLET BOX W/ COVERPLATE FOR PANIC BUTTON. PROVIDE 1" C BACK TO SPACE DESIGNATED FOR SECURITY HEADEND EQUIPMENT, CAP CONDUIT WITH INSULATED BUSHING.
ODI	4"x4" OUTLET BOX W/ COVERPLATE FOR DOOR INTERCOM. PROVIDE 1" C BACK TO SPACE DESIGNATED FOR SECURITY HEADEND EQUIPMENT, CAP CONDUIT WITH INSULATED BUSHING.
OC	JUNCTION BOX FOR SECURITY CAMERA, WHERE SHOWN ON DRAWINGS. PROVIDE TWO 4"x4" OUTLET BOXES WITH BLANK COVERS FLUSH WITH CEILING FOR POWER AND SIGNAL WIRING. PROVIDE BRANCH CIRCUIT SHOWN ON DRAWINGS, AS WELL AS ONE (1) RG-11/U COAX CABLE IN 1" C. BACK TO TELECOM ROOM. ONCE IN TELECOM ROOM, PROVIDE 20' SLACK CABLE TO ALLOW FOR TERMINATIONS BY OTHERS.

SECURITY SYMBOL NOTES:

SEE DETAIL ON DRAWING EK5.04 FOR ADDITIONAL INFORMATION REGARDING COORDINATION OF SECURITY OUTLETS IN RELATION TO DOOR LOCATIONS

LIGHTING LEGEND

■	TYPICAL FLUORESCENT PENDANT MOUNTED FIXTURE
■	TYPICAL FLUORESCENT RECESSED FIXTURE
■	TYPICAL FLUORESCENT SURFACE MOUNTED FIXTURE
■	TYPICAL FLUORESCENT WALL MOUNTED FIXTURE
■	TYPICAL FLUORESCENT RECESSED EMERGENCY FIXTURE
■	DOUBLE FACE EXIT SIGN
■	SINGLE FACE EXIT SIGN
4	DUAL HEAD EMERGENCY LIGHT
+	BOLLARD
4P	DOUBLE SPOT LIGHT
○	RECESSED MOUNTED DOWN LIGHT TYPE FIXTURE
■	FAN LIGHT
△	FLOOD LIGHT
△	FLOOD LIGHT FIXTURE
□	HID LIGHT FIXTURE - POST MOUNTED
○	HID LIGHT FIXTURE - CEILING MOUNTED
□	HID LIGHT FIXTURE - WALL MOUNTED
+	POST TYPE FIXTURE
U	SCONCE TYPE FIXTURE
P	SINGLE SPOT LIGHT
○	SURFACE MOUNTED DOWN LIGHT TYPE FIXTURE
▽	TRACK LIGHTING FIXTURE
Q	BRACKET OR SCONCE TYPE FIXTURE
○	DOWN LIGHT WALL WASH TYPE FIXTURE
■	SITE LIGHT FIXTURE

LIGHTING CONTROLS LEGEND

DS	CEILING MTD OCCUPANCY SENSOR (BEAM)
DS	CEILING MTD OCCUPANCY SENSOR (BEAM)
DS	CEILING MTD OCCUPANCY SENSOR (WIDE)
CS	CEILING MTD OCCUPANCY SENSOR
CS _{ERL}	LIGHT CNTRL - CEILING MTD OCCUPANCY EXTENDED RANGE SENSOR
CS _{WV}	LIGHT CNTRL - CEILING MTD OCCUPANCY WIDE VIEW SENSOR

POWER LEGEND

A	AQUASTAT - SUPPLIED BY OTHERS, WIRED BY EC
BB	BACK BOX
CB	POWER ENCLOSED CIRCUIT BREAKER
H	HUMIDISTAT - SUPPLIED BY OTHERS, WIRED BY EC
T	TRANSFORMER
Y	FINAL CONNECTION BY EC TO EQUIPMENT
Y _{ACCU}	CONNECTION TO AIR COOLED CONDENSING UNIT BY EC
Y _{ADO}	AUTOMATIC DOOR OPERATOR
Y _{CRAC}	CONNECTION TO COMPUTER ROOM AIR COOLING UNIT BY EC
Y _{GR}	120V-1Ø BRANCH CIRCUIT FOR EXTERIOR GENERATOR RECEPTACLE
Y _{BC}	120V-1Ø BRANCH CIRCUIT FOR EXTERIOR GENERATOR BATTERY CHARGER
Y _{GH}	120V-1Ø BRANCH CIRCUIT FOR EXTERIOR GENERATOR ENGINE HEATERS
Y _{DHW}	120V-1Ø BRANCH CIRCUIT SECURE DOOR TRANSFORMER
Y _{SV}	CONNECTION TO SOLENOID VALVE BY EC
Y _{CTRL}	BRANCH CIRCUIT CONNECTION FOR ROOF TOP AIR HANDLING UNIT CONTROLS - 120V-1Ø
Y _{LR}	BRANCH CIRCUIT CONNECTION FOR ROOF TOP AIR HANDLING UNIT INTERNAL LIGHTING AND RECEPTACLES - 120V-1Ø
■	COMBINATION DISCONNECT SWITCH AND STARTER
■	FUSED DISCONNECT SWITCH
■	NON-FUSED DISCONNECT SWITCH
■	MAGNETIC MOTOR STARTER
■ _{HOA}	MOTOR STARTER WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH - RATING AS NOTED
■ _R	REDUCED VOLTAGE MOTOR STARTER
†	ELECTRIC THERMOSTAT BY OTHERS UNLESS NOTED OTHERWISE AND WIRED BY EC
■	MOTOR
■ _{CUH}	CABINET UNIT HEATER - 1-60-120V - UNO
■ _{FCU}	FAN COIL UNIT - 1-60-120V - UNO
■ _{HUH}	HORIZONTAL UNIT HEATER - 1-60-120V - UNO
■ _{MOD}	MOTOR OPERATED DAMPER
■ _{UV}	UNIT VENTILATOR - 1-60-120V - UNO
■ _V	MOTORIZED VALVE
○	JUNCTION BOX
○ _{VVB}	BRANCH CIRCUIT FOR VARIABLE VOLUME BOXES - 120V-1Ø
VFD	VARIABLE FREQUENCY DRIVE W/ ISOLATION BYPASS - RATING AS NOTED

RECEPTACLES LEGEND

■	DUPLEX RECEPTACLE
■ ₂	DOUBLE DUPLEX RECEPTACLE
■ _{AB}	DUPLEX RECEPTACLE - ABOVE COUNTER
■ _{AB GFI}	DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE ABOVE COUNTER
■ _{GFI}	DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE
■ _{TV}	TELEVISION POWER OUTLET - 12" BELOW CEILING UNO
■ _{WP}	DUPLEX WEATHERPROOF RECEPTACLE
■	DUPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER SYSTEM
■ _{PL}	DUPLEX RECEPTACLE FOR PATIENT LIFT SYSTEM - MOUNTED 12" BELOW FINISHED CEILING. FOR OUTLETS SHOWN IN BATHROOM/TOILET ROOMS, OUTETS SHALL BE 'GFI' TYPE RECEPTACLE.
■	SPECIAL PURPOSE RECEPTACLE - RATING AS NOTED

SWITCH LEGEND

\$	SINGLE POLE SWITCH
\$ ₃	3-WAY SWITCH
\$ ₄	4-WAY SWITCH
\$ _W \$ _o	INDICATES TWO SWITCHES WINNER AND OUTER LAMPS SEPARATELY SWITCHED
\$ _{OS}	2-POLE WALL SWITCH OCCUPANCY SENSOR
\$ _D	IN WALL-TYPE DIMMER, RATING AS NOTED
\$ _K	KEY OPERATED SWITCH
\$ _{LV}	LOW VOLTAGE MOMENTARY CONTACT SINGLE POLE SWITCH INTERCONNECTED WITH LIGHTING CONTROL RELAY PANEL
\$ _L	LOW VOLTAGE SWITCH
\$ _M	SINGLE PHASE MANUAL MOTOR SWITCH WITH OVERLOADS
\$ _{MC}	MOMENTARY CONTACT SWITCH
\$ _{MPL}	MANUAL MOTOR SWITCH WITH OVERLOADS AND PILOT LIGHT (PILOT LIGHT IS ON WHEN MOTOR RUNS)
\$ _{OS}	OCCUPANCY SENSOR SWITCH

100% Construction Documents	08/05/10	ASSOCIATES DIRECTOR PATIENT CARE		INFECTION CONTROL	SUPERVISOR M&O	PROJECT MANAGER	ARCHITECT / ENGINEERS : Francis Cauffman 2120 Arch Street Philadelphia, PA 19103 Tel (215) 568-8250 Fax (215) 568-2639	Mechanical, Electrical, Fire Protection, and Plumbing Engineer H.F. Lenz Company 1407 Scalp Avenue Johnstown, PA 15904-3314 T: 814.269.9300 F: 814.269.9301 EFE EUSTACE ENGINEERING 447 West Moreland Road 3rd Floor Willow Grove, PA, 19090 Tel: (215) 348-8767 Fax: (215) 348-8768 www.eustaceeng.com		Drawing Title ELECTRICAL SYMBOLS		Project Title CONSTRUCT HOSPICE COATESVILLE	Date 08-05-2010	
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