

AL ABBREVIATIONS	MISCELLA	ANEOUS	RECEPTACLE(S)
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL DESCRIPTION
PHASE AMPERES		DISCONNECT SWITCH, NON-FUSIBLE 3 POLE, 60 AMP, NF = NON-FUSED, 3R = NEMA 3R ENCLOSURE	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
ALTERNATING CURRENT AIR CONDITIONING	" <b>□</b> <u>3P/60A</u> 3R	DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, FUSED AT 50 AMPS, 3R = NEMA 3R ENCLOSURE	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
ARC FAULT CIRCUIT INTERRUPTER AIR HANDLING UNIT	"⊠ <u>3P/60A</u> NEMA X 3R	COMBINATION STARTER / DISCONNECT SWITCH, FUSIBLE	QUADRUPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
MPERE INTERRUPTING CAPACITY		3 POLE, 60 AMP, NEMA X SIZE, 3R = NEMA 3R ENCLOSURE	
UTOMATIC TRANSFER SWITCH MERICAN WIRE GAUGE		MAGNETIC MOTOR STARTER	QUADRUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
ONDUIT ABLE TELEVISION		ENCLOSED CIRCUIT BREAKER, AS INDICATED	SINGLE RECEPTACLE, 20 AMP, 120V U.O.N.
RITICAL BRANCH RCUIT BREAKER .OSED CIRCUIT TELEVISION		PANELBOARD, 480 / 277V	GFI - TYPE DUPLEX RECEPTACLE WP: DENOTES WEATHERPROOF COVER
RCUIT RCUIT		PANELBOARD, 208 / 120V	GFI - TYPE DOUBLE DUPLEX RECEPTACLE
IPPER RECT CURRENT		MANHOLE	GFI - DUPLEX RECEPTACLE
AMETER UIPMENT BRANCH			
ECTRICAL CONTRACTOR HAUST FAN		HAND HOLE	
EVATOR ERGENCY	SPD	SURGE PROTECTION DEVICE	SPECIAL PURPOSE RECEPTACLE (NEMA RATING AS INDICATED)
CTRICAL METALLIC TUBING ERGENCY POWER		ELECTRICAL METER	QUADRUPLEX RECEPTACLE, TICK MARKS DENOTE EMERGENCY (TYPICAL ALL RECEPTACLES)
ERGENCY POWER OFF (BUTTON OR SWITCH) CTRIC WATER COOLER	ТХ	TRANSFORMER	DUPLEX RECEPTACLE - HALF SWITCHED
SE E ALARM			
E ALARM ANNUNCIATOR L LOAD AMPERES		MOTOR CONNECTION, HP: DENOTES HORSEPOWER RATING	DUPLEX RECEPTACLE - CEILING MOUNTED
		EXHAUST FAN	DUPLEX RECEPTACLE WITH ISOLATED GROUND
DUND FAULT CIRCUIT INTERRUPTER DUND VANIZED RIGID METAL CONDUIT		GROUND BUS BAR	DUPLEX RECEPTACLE - FLOOR MOUNTED
VANIZED RIGID METAL CONDUIT ID-OFF-AUTOMATIC SWITCH TING, VENTILATION, AIR CONDITIONING		PUSHBUTTON	[P] POWER POLE
TING, VENTILATION, AIR CONDITIONING TZ TITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS		3/4" PLYWOOD TELEPHONE BACKBOARD	JUNCTION BOX - CEILING MOUNTED
ATED GROUND ERMEDIATE METAL CONDUIT			
DUSAND CIRCULAR MILS DVOLT-AMPERES		CONCRETE ENCASED DUCTBANK	JUNCTION BOX - WALL MOUNTED
JID TIGHT FLEXIBLE METAL CONDUIT		HOMERUN TO PANEL INDICATED NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS	JUNCTION BOX - FLOOR / GROUND MOUNTED
K ROTOR AMPS AL CLAD CABLE		WIRE IN CONDUIT CONCEALED, #12 AWG SIZE WIRE IN 1/2" CONDUIT MINIMUM UNLESS OTHERWISE NOTED	
N CIRCUIT BREAKER FOR CONTROL CENTER		WIRE IN CONDUIT CONCEALED BELOW SLAB OR GRADE	TELECOMMUNICATION (RACEWAY ONL)
OR CIRCUIT PROTECTION			SYMBOL DESCRIPTION
INTED MALLY CLOSED		CONDUIT EXPOSED	▼ INFORMATION OUTLET
ONAL ELECTRICAL CODE ONAL ELECTRICAL MANUFACTURERS ASSOCIATION		FLEXIBLE CONDUIT	
IONAL FIRE PROTECTION ASSOCIATION	o	CONDUIT TURNING UP	INFORMATION OUTLET, FLOOR MOUNTED
RMALLY OPEN OR NUMBER E	•	CONDUIT TURNING DOWN	HTV CATV OUTLET
SH BUTTON OR PANIC BUTTON OR PULL BOX IEL VER		CONDUIT STUB	TELEVISION OUTLET, FLOOR MOUNTED
ver ANTITY QUIRED			INTERCOM SPEAKER - CEILING MOUNTED
ID METAL CONDUIT ID NON-METALLIC CONDUIT			
MOTE TEST STATION DF TOP UNIT			
ARE JNT TRIP			
ITCH IMETRICAL			MICROPHONE - FLOOR MOUNTED
EPHONE ECOMMUNICATIONS GROUNDING BUSBAR			INTERCOM VOLUME CONTROL
ERMAL MAGNETIC CIRCUIT BREAKER DER GROUND			
DERWRITERS LABORATORY .T			
T-AMPERE IT OR WIRE			AMP INTERCOM AMPLIFIER
ER HEATER THER PROOF			
NSFORMER			
		EQUIPMENT GROUND BAR	
		METAL FRAME OR	- ENCLOSURE (TYP)
/ ×		BUILDING STEEL	
	Λ.	Ň	
	$\mathbf{N}$	CONNECTION OF	
		CONNECTION OF FULL SIZE G.E.C. TO BUILDING STEEL	FULL SIZE GROUNDING ELECTROD CONDUCTOR, (G.E.C.), PER NEC 25
VER GR		FULL SIZE G.E.C.	CONDUCTOR, (G.E.C.), PER NEC 25 (SEE ELECTRICAL RISER DIAGRAM)
ROUND WER GF TE GROUND	RADE	FULL SIZE G.E.C.	CONDUCTOR, (G.E.C.), PER NEC 25 (SEE ELECTRICAL RISER DIAGRAM) #4 CU GROUND CONDUCTOR TO BUILDING FOUNDATION REINFORC
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ROUND VER GF TE GROUND ION WELL	RADE	FULL SIZE G.E.C. TO BUILDING STEEL	CONDUCTOR, (G.E.C.), PER NEC 25 (SEE ELECTRICAL RISER DIAGRAM) #4 CU GROUND CONDUCTOR TO BUILDING FOUNDATION REINFORC STEEL. CONCRETE-ENCASED GROUNDING ELECTRODE PER N.E. 250.52 (A) MIN. OF 20'-0"
ROUND VER TE GROUND ON WELL		FULL SIZE G.E.C. TO BUILDING STEEL FULL SIZE G.E.C. (SEE RISER DIAGRAM)	CONDUCTOR, (G.E.C.), PER NEC 25 (SEE ELECTRICAL RISER DIAGRAM) #4 CU GROUND CONDUCTOR TO BUILDING FOUNDATION REINFORC STEEL. CONCRETE-ENCASED GROUNDING ELECTRODE PER N.E.
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GF COPPER-CLAD	E.C.	FULL SIZE G.E.C. TO BUILDING STEEL FULL SIZE G.E.C. (SEE RISER DIAGRAM)	CONDUCTOR, (G.E.C.), PER NEC 25 (SEE ELECTRICAL RISER DIAGRAM) #4 CU GROUND CONDUCTOR TO BUILDING FOUNDATION REINFORC STEEL. CONCRETE-ENCASED GROUNDING ELECTRODE PER N.E. 250.52 (A) MIN. OF 20'-0" METAL UNDERGROUND WATER PIPE NONMETALLIC CONDUIT SLEEVE, TYPICAL
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GF TE GROUND ON WELL COPPER-CLAD	E.C.	FULL SIZE G.E.C. TO BUILDING STEEL FULL SIZE G.E.C. (SEE RISER DIAGRAM)	CONDUCTOR, (G.E.C.), PER NEC 25 (SEE ELECTRICAL RISER DIAGRAM) #4 CU GROUND CONDUCTOR TO BUILDING FOUNDATION REINFORC STEEL. CONCRETE-ENCASED GROUNDING ELECTRODE PER N.E. 250.52 (A) MIN. OF 20'-0" METAL UNDERGROUND WATER PIPE NONMETALLIC CONDUIT SLEEVE, TYPICAL

LIGHTING	
SYMBOL	DESCRIPTION
$\bigcirc$ $\bigcirc$	CEILING MOUNTED 2'x2' / 2'x4' LIGHT FIXTURE - RECESSED NORMAL POWER
O	CEILING MOUNTED 2'x2' / 2'x4' LIGHT FIXTURE - RECESSED LIFE SAFETY POWER / NL = NIGHT LIGHT
$\bigcirc$	CEILING MOUNTED 2'x2' / 2'x4' LIGHT FIXTURE - RECESSED CRITICAL POWER
	CEILING MOUNTED 1'x4' LIGHT FIXTURE RECESSED OR SURFACE - NORMAL POWER
	CEILING MOUNTED 1'x4' LIGHT FIXTURE RECESSED OR SURFACE MOUNTED - LIFE SAFETY POWER
	CEILING MOUNTED 1'x4' LIGHT FIXTURE RECESSED OR SURFACE MOUNTED - CRITICAL POWER
• () •	CEILING MOUNTED 1'x4' LIGHT FIXTURE PENDANT MOUNTED - NORMAL POWER
	CEILING MOUNTED 1'x4' LIGHT FIXTURE PENDANT MOUNTED - LIFE SAFETY POWER
• ()•	CEILING MOUNTED 1'x4' LIGHT FIXTURE PENDANT MOUNTED - CRITICAL POWER
нон	FLUORESCENT STRIP LIGHT FIXTURE - NORMAL POWER
⊢⊚⊣	FLUORESCENT STRIP LIGHT FIXTURE - LIFE SAFETY POWER
⊢⊘⊣	FLUORESCENT STRIP LIGHT FIXTURE - CRITICAL POWER
0	DOWN LIGHT FIXTURE - NORMAL POWER
۲	DOWN LIGHT FIXTURE - LIFE SAFETY POWER
Ø	DOWN LIGHT FIXTURE - CRITICAL POWER
Q	WALL MOUNTED LIGHT FIXTURE - NORMAL POWER
Q	WALL MOUNTED LIGHT FIXTURE - LIFE SAFETY POWER
Q	WALL MOUNTED LIGHT FIXTURE - CRITICAL POWER
X	CEILING FAN
	TRACK LIGHTING
	UNDERCOUNTER LIGHTING
Ŷ	FLOOD LIGHT FIXTURE
Ţ	POLE LIGHT FIXTURE
Ø	BOLLARD LIGHT FIXTURE
	STEP LIGHT FIXTURE
<b>&amp;</b>	EMERGENCY LIGHT UNIT
<b>↓</b>	EXIT LIGHT - SINGLE FACE WITH DIRECTIONAL ARROW
$\bigotimes$	EXIT LIGHT - DOUBLE FACE
Ø	EXIT LIGHT - WALL MOUNTED
SWITCHE	S
SYMBOL	DESCRIPTION
\$A	SINGLE POWER TOGGLE SWITCH (LETTER DENOTES FIXTURE CONTROLLED)
\$3	THREE-WAY TOGGLE SWITCH
\$4	FOUR-WAY TOGGLE SWITCH
\$D	DIMMER SWITCH
\$м	MOTOR SWITCH
\$F	FAN SWITCH
<b>\$</b> 3P	THREE POSITION SELECTOR SWITCH
\$⊤	TIMER SWITCH (60 MINUTES)
\$LV	LOW VOLTAGE SWITCH
\$HOA	HAND-OFF-AUTOMATIC SWITCH
\$к	KEY SWITCH
\$wp	SWITCH - WEATHERPROOF
\$os	WALL SWITCH OCCUPANCY SENSOR
\$005	DUAL LEVEL OCCUPANCY SENSOR SWITCH

COD	ES AND STANDARDS
NFPA 70:	NATIONAL ELECTRICAL CODE (2011)
NFPA 72:	NATIONAL FIRE ALARM CODE (2010)
NFPA 75:	STANDARD FOR THE PROTECTION OF ELECTRONIC COMPUTER / DATA PROCESSING EQUIPMENT (2009)
NFPA 90A:	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS (2012)
NFPA 90B:	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS (2012)
NFPA 92:	RECOMMENDED PRACTICE FOR SMOKE CONTROL SYSTEMS (2012)
NFPA 101:	LIFE SAFETY CODE (2012)
NFPA 110:	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS (2010)
2014 EDT:	FLORIDA BUILDING CODE (5th EDITION)

## **GENERAL NOTES**

- 1. ALL SYMBOLS SHOWN MAY NOT BE USED. 2. #12 AWG NEUTRAL CONDUCTOR SHALL BE INCLUDED FOR EACH BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 3. #12 AWG GREEN GROUND CONDUCTOR SHALL BE INCLUDED IN EACH RACEWAY UNLESS OTHERWISE NOTED. 4. HOME RUNS TO PANEL BOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE) PLUS DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR AND GROUND CONDUCTOR IN EACH CONDUIT.
- 5. REFER TO PANEL SCHEDULE SHEETS FOR WIRE SIZES OF CIRCUITS.

## SCOPE OF WORK

- CONTRACTOR SHALL REFER TO DEMOLITION PLANS FOR POLES, LUMINARIES, DEVICES AND EQUIPMENT BEING DEMOLISHED. COORDINATE REMOVAL OF CONDUCTORS, CONDUIT, CONTROLS, ETC. SERVING DEMOLISHED ITEM(S) WITH OWNER.
- PROVIDE ALL COMPONENTS NEED TO ESTABLISH POWER TO ALL NEW DEVICE, RECEPTACLES AND EQUIPMENT SHOWN ON RENOVATION PLANS. PROVIDE LIGHTING CONTROLS FOR SITE LIGHTING.
- 3. COORDINATE INSTALLATION OF PV SYSTEM POWER FEED WITH PV SYSTEM VENDER/INSTALLER AND UTILITY POWER COMPANY.

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E-1.20	ENLARGED SITE PLAN - ELECTRICAL DEMOLITION		
E-1.30	ENLARGED SITE PLAN - ELECTRICAL DEMOLITION		
E-1.40	ENLARGED SITE PLAN - ELECTRICAL DEMOLITION		
E-1.50	ENLARGED SITE PLAN - ELECTRICAL DEMOLITION		
E-2.10	ENLARGED SITE PLAN - ELECTRICAL RENOVATION		
E-2.20	ENLARGED SITE PLAN - ELECTRICAL RENOVATION		
E-2.30	ENLARGED SITE PLAN - ELECTRICAL RENOVATION		
E-2.40	ENLARGED SITE PLAN - ELECTRICAL RENOVATION		
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E-3.01	POWER RISER DIAGRAM AND PANEL SCHEDULES		
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E-4.00	MARKET STRUCTURE PV ARRAY		

THE PIER APPROACH CITY OF ST. PETERSBURG 100% CONSTRUCTION DOCUMENTS CITY PROJECT NO. 09227-119



DUAL-LEVEL OCCUPANCY SENSOR SWITCH

OCCUPANCY SENSOR - CEILING MOUNTED

OCCUPANCY SENSOR - WALL MOUNTED

PHOTOCELL

TIME CLOCK

LIGHTING CONTACTOR

\$dos

OSAREA

PC

LC

ТС

ENGINEERING and CAPITAL IMPROVEMENTS DEPARTMENT CITY of ST. PETERSBURG

ELECTRICAL LEGEND

