

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING AND NOTES
	TYPICAL LIGHTING SYMBOL NOTES: 1. UPPER CASE LETTER DENOTES FIXTURE TYPE, SEE FIXTURE SCHEDULE 2. LOWER CASE LETTER DENOTES SWITCHED LEG 3. SHADED FIXTURE SYMBOL INDICATES EMERGENCY FIXTURE 4. "NL" DENOTES NIGHT LIGHT CIRCUIT	
	CEILING OUTLET FOR INCANDESCENT, "PL" FLUORESCENT OR HIGH INTENSITY DISCHARGE DOWNLIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	WALL OUTLET FOR INCANDESCENT, "PL" FLUORESCENT OR HIGH INTENSITY FIXTURE (WALL SCONCE, WALL PACK)	SEE FIXTURE SCHEDULE
	CEILING OUTLET FOR 2'x4' FLUORESCENT FIXTURE.	SEE FIXTURE SCHEDULE
	CEILING OUTLET FOR 2'x2' FLUORESCENT FIXTURE.	SEE FIXTURE SCHEDULE
	CEILING OUTLET FOR 1'x4' FLUORESCENT FIXTURE. (SURFACE, RECESSED, WRAPAROUND, VANDAL-PROOF)	SEE FIXTURE SCHEDULE
	CEILING OUTLET FOR FLUORESCENT FIXTURE. (PENDANT MOUNT, CHANNEL, INDUSTRIAL)	SEE FIXTURE SCHEDULE
	BATTERY POWERED EMERGENCY LIGHTING UNIT, WITH TWO HEADS AND WALL MOUNTING BRACKET	M.H. 7'-6" TO TOP.
	CEILING OUTLET FOR SINGLE FACE EXIT LIGHT FIXTURE. ARROW INDICATES DIRECTION	SEE FIXTURE SCHEDULE
	CEILING OUTLET FOR DOUBLE FACE EXIT LIGHT FIXTURE. ARROW INDICATES DIRECTION	SEE FIXTURE SCHEDULE
S	SINGLE POLE SWITCH	44" AFF TO BOTTOM U.O.N.
S ₃	THREE WAY SWITCH	44" AFF TO BOTTOM U.O.N.
S ₄	FOUR WAY SWITCH	44" AFF TO BOTTOM U.O.N.
S _H	MOTOR RATED SWITCH WITHOUT THERMAL OVERLOADS FOR FRACTIONAL HORSEPOWER MOTORS.	44" AFF TO BOTTOM U.O.N.
S _{SC}	SPEED CONTROL	44" AFF TO BOTTOM U.O.N.
S _K	SINGLE POLE SWITCH KEY OPERATED.	44" AFF TO BOTTOM U.O.N.
S _D	WALL BOX TYPE DIMMER SWITCH. PROVIDE DIMMING BALLAST WHERE REQUIRED.	44" AFF TO BOTTOM U.O.N.
	TYPICAL RECEPTACLE, OUTLET AND JUNCTION BOX SUFFIX LEGEND: EWC = ELECTRIC WATER COOLER IG = ISOLATED GROUND EWH = ELECTRIC WATER HEATER O = OVEN GFI = GROUND FAULT INTERRUPTER R = RANGE EX = EXPLOSION PROOF WP = WEATHERPROOF UP = UP (CONDUIT) PS = PAYPHONE STATION DN = DOWN (CONDUIT) REF = REFRIGERATOR E = EXISTING P = PEDESTAL	
	DUPLEX RECEPTACLE (20A, 120V).	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
	DUPLEX RECEPTACLE (20A, 120V). ABOVE COUNTER.	42" AFF TO BOTTOM, ABOVE COUNTER BACKSLASH U.O.N.
	DOUBLE DUPLEX RECEPTACLE (20A, 120V).	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
	RANGE RECEPTACLE, 50A, 250V, ONE PHASE, FOUR WIRE.	4" AFF. TO BOTTOM U.O.N.
	DRYER RECEPTACLE, 30A, 250V, ONE PHASE, FOUR WIRE.	36" AFF. TO BOTTOM U.O.N.
	SPECIAL PURPOSE RECEPTACLE, AMPS, VOLTS AND WIRE AS NOTED.	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
	JUNCTION OR OUTLET BOX, 4" SQUARE BOX U.O.N.	AS NOTED
30/3	NON-FUSIBLE DISCONNECT SWITCH, 30A, 3 POLE, U.O.N.	SEE SPECIFICATIONS
60/40/3	FUSIBLE DISCONNECT SWITCH, AMPS/FUSE SIZE/NO. POLES AS NOTED.	SEE SPECIFICATIONS
	PANELBOARD, 120/208V., 3 PH., 4W	6'-6" AFF MIN. TO TOP
	POWER PANELBOARD, 277/480V, 3PH., 4W.	M.H. 6'-6" MIN. TO TOP
	TELEPHONE TERMINAL CABINET	M.H. 6'-6" MIN. TO TOP
	TELEPHONE TERMINAL BOARD, AS NOTED	6'-6" AFF MIN. TO TOP
	RACEWAY RISER, UP OR DOWN AS NOTED.	SEE SPECIFICATIONS
	RACEWAY CONCEALED UNDER FLOOR, IN SLAB OR BELOW GRADE	SEE SPECIFICATIONS
	RACEWAY CONCEALED IN WALL OR CEILING	SEE SPECIFICATIONS
	HOMERUN TO PANEL, LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUITS.	SEE SPECIFICATIONS

NOTE:
NOT ALL SYMBOLS SHOWN IN THIS LEGEND MAY NECESSARILY APPEAR IN THESE DOCUMENTS. ADDITIONAL SYMBOLS MAY BE DEFINED ELSEWHERE IN SPECIFIC DRAWINGS.

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING AND NOTES
	TYPICAL FIRE ALARM DEVICE SUFFIX LEGEND. F = FLASHING STROBE LIGHT S = SUPPLY R = RETURN	
	FIRE ALARM HEAT DETECTOR	CEILING, U.O.N.
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR	CEILING, U.O.N.
	FIRE ALARM PHOTOELECTRIC DETECTOR, INSIDE DUCT.	DUCT
	FIRE ALARM MANUAL PULL STATION	48" AFF TO TOP, U.O.N.
	FIRE ALARM SYSTEM FAN OR AHU SHUTDOWN OR RUN RELAY	
	FIRE ALARM DUCT SMOKE DETECTOR TEST SWITCHES & LIGHTS. ONE PER SMOKE DUCT DETECTOR	48" AFF TO TOP, U.O.N.
	FIRE ALARM HORN (WEATHER PROOF WHEN INSTALLED OUTDOORS.)	6'-0" AFF TO TOP, U.O.N.
	FIRE ALARM HORN/FLASHING STROBE LIGHT. 75 CANDELA MIN.	80" AFF TO BOTTOM
	FIRE ALARM WITH FLASHING STROBE LIGHT. 75 CANDELA MIN.	80" AFF TO BOTTOM
	FIRE ALARM CONTROL PANEL.	M.H. 60" MIN. TO TOP
	FIRE ALARM REMOTE ANNUNCIATOR PANEL.	M.H. 60" MIN. TO TOP
	FIRE ALARM TERMINAL CABINET	M.H. 60" MIN. TO TOP
	FIRE ALARM PULL STATION SIGN - FOR INTERIOR MOUNTED STATION	M.H. 48" MIN. TO TOP
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR WITH ELEVATOR RECALL CONTACTS.	CEILING, U.O.N.
	FIRE ALARM HEAT DETECTOR MOUNTED UNDER STAGE	UNDER STAGE
	FIRE ALARM WATER TAMPER SWITCH.	48" AFF TO TOP, U.O.N.
	FIRE ALARM WATER FLOW SWITCH.	48" AFF TO TOP, U.O.N.
	REFER TO LIKE NUMBERED KEY NOTES.	
	120 VOLT SMOKE DETECTOR AND ALARM WITH 9 VOLT BATTERY BACK-UP	CEILING MOUNTED HARDWIRED TO 120 VOLT UNIT CIRCUIT

GENERAL NOTES ELECTRICAL	
<ol style="list-style-type: none"> DO NOT SCALE FROM THESE DRAWINGS. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING. PROVIDE CEILING MOUNTED RED L.E.D. ALARM INDICATOR FOR EACH SMOKE DETECTOR MOUNTED IN PLENUM SPACE(S) OR CONCEALED AREAS. FROM EACH FLUSH MOUNTED PANEL BOARD, STUB-OUT INTO CEILING CAVITY ABOVE, A 3/4" C. FOR EACH SET OF 3 - SPARES AND/OR SPACES OR FRACTIONS OF EITHER SET THEREOF. REFER TO MECHANICAL DRAWINGS FOR INTERLOCKING REQUIREMENTS OF MECHANICAL EQUIPMENT (MOTORS, FANS, PUMPS, ETC...). INSTALL ANY ELECTRICAL EQUIPMENT (STARTERS, RELAYS, VFD'S, ETC.) FURNISHED BY DIV 15. PROVIDE ADEQUATE POWER IN THE FIRE ALARM SYSTEM TO OPERATE ALL LIFE SAFETY SYSTEM AND E.M.C.S. CONTROL DEVICES. REFER TO DIVISION 15 DRAWINGS FOR LOCATIONS OF FIRE PROTECTION WATER FLOW AND TAMPER SWITCHES. PROVIDE/ COORDINATE WIRING REQUIREMENTS. PROVIDE EXIT SIGNAGE AT ALL EXITS AND AS REQUIRED. ALL EXTERIOR WIRING DEVICES TO BE WEATHERPROOF AND SHALL BE G.F.I. TYPE. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NEC AND FOR COORDINATION WITH OTHER DISCIPLINES. USE 10 AWG CU. CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE 10 AWG CU. CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET. THE INTENT OF THE ELECTRICAL SCOPE OUTLINED HEREIN FOR THIS PROJECT IS TO REPLACE EXISTING SERVICE PANELS WITH NEW EQUIPMENT. RE-PULL EXISTING BRANCH CIRCUITS, FEEDERS ETC. WITH-IN EXISTING RACEWAYS WHERE EVER POSSIBLE WITH EQUIPMENT GROUNDS. WHEN EXISTING CONDUIT ARE DETERIORATED BEYOND RE-USE OR JUNCTION POINTS ARE NOT ACCESSIBLE. THIS ELECTRICAL CONTRACTOR SHALL INSTALL NEW RACEWAY SYSTEMS, INSTALL NEW BRANCH CIRCUITS AND FEEDER. FIRE ALARM SCOPE OUTLINED HEREIN FOR THIS PROJECT IS TO PROVIDE ALL NEW GUEST ROOM/APARTMENT 120 VOLT STAND ALONE SMOKE DETECTORS WITH ALARM. EACH UNIT SHALL HAVE A SMOKE DETECTOR IN THE BEDROOM OR BEDROOMS. A SMOKE DETECTOR ADJACENT TO THE BEDROOM OR HALLWAY AND A SMOKE DETECTOR IN THE LIVING AREA. SMOKE DETECTORS SHALL BE WIRED SO THAT ANY ONE SMOKE DETECTOR ALARMS ALL SMOKE DETECTORS WITHIN THE UNIT. A COMPLETE BUILDING FIRE ALARM SYSTEM SHALL BE INSTALLED CONSISTING OF MANUAL STATIONS, HEAT AND SMOKE DETECTORS, ALARM NOTIFICATION DEVICES, CONTROL PANEL, MONITORING BY 24 HOUR SERVICE COMPANY, ETC. 	

LEGEND

SCALE: NO SCALE

REVISIONS

COMMENTS

NO.

DATE

RENOVATION/RESTORATION PROJECT

MARINER BEACH CLUB
4220 GULF BOULEVARD
ST. PETERSBURG BEACH, FLORIDA 33706

billerreinhardt
STRUCTURAL GROUP, INC.
4014 gulf highway suite 248, tampa, florida 33618
telephone : 813.908.7203 fax : 813.908.7303
email : info@billerreinhardt.com
State of Florida Certificate of Authorization No. 9149

USE THE SET OF THE DRAWINGS AS NOTED. THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE NATIONAL BUILDING CODES.

ELECTRICAL LEGEND

DATE: 02-23-09 DRAWN BY: CSR
JOB NO: 08-132 DESIGN BY: OFB

SHEET NO.

E0.0

ENGINEERING MATRIX, INC.
CONSULTING ENGINEERS
2860 SCHERER DRIVE, SUITE 640
ST. PETERSBURG, FLORIDA 33716
(727) 573-4656 FAX:(727) 573-3902 EMAIL: email@emntx.com
CERT. OF AUTHORIZATION NO. 4288 EMI JOB NO. 08-1320
© 2009 Engineering Matrix, Inc.