

SYMBOL SCHEDULE – ELECTRICAL AND DIVISION 16 DOCUMENTS

SYMBOL		DESCRIPTION
CEILING	WALL	
		FLUORESCENT LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT
		HID OR INCANDESCENT LIGHT FIXTURE. SEE FIXTURE SCHEDULE.
		"EXIT" LIGHT FIXTURE(WITH OR WITHOUT DIRECTIONAL ARROWS) EXIT LIGHTS ON EMERGENCY CIRCUITS ARE NOT SHADED.
		EMERGENCY BATTERY PACK FIXTURE
		SINGLE-POLE TOGGLE SWITCH
		SINGLE POLE TOGGLE SWITCH. LETTER DENOTES FIXTURE CONTROLLED.
		TWO-POLE TOGGLE SWITCH
		THREE-WAY TOGGLE SWITCH
		KEY OPERATED TOGGLE SWITCH
		PASSIVE INFRARED OCCUPANCY SENSOR – WALL MOUNTED
		PASSIVE INFRARED OCCUPANCY SENSOR – CEILING MOUNTED
		ULTRA SONIC OCCUPANCY SENSOR – CEILING MOUNTED
		DUAL TECHNOLOGY OCCUPANCY SENSOR – CEILING MOUNTED
		SINGLE-POLE DIMMER SWITCH, INCANDESCENT SUBSCRIPT DENOTES WATTAGE: (6-600W.; 10-1000W.; 15-1500W.; 20-2000W.)
		SINGLE-POLE DIMMER SWITCH (F-FLUORESCENT, LV-LOW VOLT.)
		THREE-WAY DIMMER SWITCH
		PUSHBUTTON STATION
		SPECIAL OUTLET: SEE PLAN FOR TYPE
		CLOCK OUTLET WALL MOUNTED
		SIMPLEX CONVENIENCE OUTLET, 20 AMPERE, 125 VOLT, NEMA 5-20R.
		DUPLEX OUTLET, 15 AMP, 125V., NEMA 5-15R
		DUPLEX OUTLET, 20A., 120V., NEMA 5-20R
		DUPLEX OUTLET WITH WEATHERPROOF COVER
		GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
		QUADRUPLEX (2-15A., 125-VOLT, NEMA 5-15R MOUNTED IN ONE BOX)
		TELEPHONE OUTLET, FLUSH WALL MOUNTED
		DATA OUTLET, FLUSH WALL MOUNTED
		TELEPHONE/DATA OUTLET, FLUSH WALL MOUNTED
		BRANCH CIRCUIT PANELBOARD
		DISTRIBUTION PANELBOARD
		MANUAL MOTOR STARTING SWITCH
		DISCONNECT SWITCH. FUSED UNLESS OTHERWISE NOTED.
		MAGNETIC MOTOR STARTER (SUPPLIED UNDER DIVISION 15000)
		COMBINATION STARTER/DISCONNECT SWITCH. FUSED UNLESS OTHERWISE NOTED. (SUPPLIED UNDER DIVISION 15000)
		SMOKE DETECTOR, MOUNTED ON CEILING
		SMOKE DETECTOR, MOUNTED ON WALL
		COMBINATION SMOKE/HEAT DETECTOR, MOUNTED ON CEILING
		SMOKE DETECTOR WITH SAMPLING TUBE (A/H UNITS)
		FIRE ALARM CONTROL PANEL
		FIRE ALARM FLOW SWITCH
		FIRE ALARM TAMPER SWITCH
		FIRE ALARM PULL STATION
		COMBINATION FIRE ALARM MASS NOTIFICATION (M.N.) AUDIO/VISUAL-AMBER STROBE-M.N. WHITE STROBE-F/A.
		FIRE ALARM HORN – 15 WATT
		COMBINATION FIRE ALARM MASS NOTIFICATION STROBE DEVICE. AMBER STROBE-MASS NOTIFICATION, WHITE STROBE-F/A.
		CEILING MOUNTED SPEAKER (MASS NOTIFICATION)
		CEILING MOUNTED FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE.
		CEILING MOUNTED FIRE ALARM VISUAL NOTIFICATION DEVICE
		OUTDOOR WALL MOUNTED MASS NOTIFICATION SPEAKER

SYMBOL		DESCRIPTION
CEILING	WALL	
		JUNCTION BOX WITH FIXTURE WHIP
		JUNCTION BOX
		ELECTRIC WATER HEATER
		PULLBOX OR TROUGH
		MOTOR, SINGLE-PHASE. NUMERAL DENOTES HORSEPOWER.
		MOTOR, THREE PHASE. NUMERAL DENOTES HORSEPOWER.
		LADDER CABLE TRAY
		CIRCUIT BREAKER DEVICE
		SWITCH DEVICE
		FUSE
		NORMALLY OPEN CONTACT
		NORMALLY CLOSED CONTACT
		MANHOLE.
		GROUND CONNECTION.
		SPECIAL CIRCUIT (E= EMERGENCY, T= TELEPHONE, T.V.= TELEVISION, EX= EXISTING, ETC.
		WIRING (IN CONDUIT) CONCEALED IN OR UNDER SLAB
		WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL
		WIRING (IN CONDUIT) RUN EXPOSED
		EXISTING
		EXISTING TO BE REMOVED
		WIRING (IN CONDUIT) RUN UNDER GROUND
		EXTEND EXISTING CONDUIT WITH NEW CONDUIT
		CIRCUIT TURNED UP
		CIRCUIT TURNED DOWN
		OUTDOOR AERIAL CONDUCTORS
		AMP
		VOLT
		WIRE
		POLE
		CONDUIT
		GROUND
		CIRCUIT BREAKER
		AIR CONDITION
		ANNUNCIATOR PANEL
		END OF LINE RESISTOR.
		TELEPHONE BACKBOARD
		ABOVE FINISHED FLOOR
		WATER HEATER
		GROUND FAULT INTERRUPTER
		NOTE REFERENCE
		HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO (HASH MARKS), OPPOSITE SLANT DENOTES GROUND, NUMBER OF CIRCUITS (NUMBER OF ARROWS).
		DETAIL REFERENCE : "X" DENOTES DETAIL NUMBER "Y" DENOTES SHEET DETAIL IS REFERENCED FROM "Z" DENOTES SHEET DETAIL IS DRAWN ON
		DETAIL: NUMBER DENOTES DETAIL NUMBER LETTER "E" DENOTES SHEET ON WHICH DETAIL IS DRAWN
		FLOOR PLAN OR DRAWING OTHER THAN DETAIL.

FIXTURE SCHEDULE:

F1	FLUORESCENT DOWNLIGHT, VERTICAL LAMP, CLEAR ALZAK REFLECTOR, 7-3/8" APERTURE, ONE LAMP, ELECTRONIC BALLAST – 120 /277 VOLT. LAMPS PL-T 32W35/4P/ALTO. COOPER CAT# C7042-E-7400-LI	F9E	STRIP FLUORESCENT, TWO LAMP (T8), ELECTRONIC BALLAST 277 VOLT. INCLUDE 600 LUMEN BATTERY PACK. LAMPS – F32T8/TL835. PROVIDE TUBE GUARDS ON LAMPS. COOPER CAT# SS-232-UNV-EB81-EL8
F1E	FLUORESCENT DOWNLIGHT, VERTICAL LAMP, CLEAR ALZAK REFLECTOR, 7-3/8" APERTURE, ONE LAMP, ELECTRONIC BALLAST – 120 /277 VOLT. LAMPS PL-T 32W35/4P/ALTO. INCLUDE EMERGENCY BATTERY PACK. COOPER CAT# C7042-E-7400-LI-EM	F10	11" RECESSED WALL MOUNTED, EYELID STYLE, CLEAR PRISMATIC POLYCARBONATE LENS (.125" THICK), ELECTRONIC UNIVERSAL BALLAST-120/277 VOLT, WHITE COLOR. LAMP PL-T-32W/35/4P. COOPER CAT# TRE-11-42CT-DT-WH-L
F2	FLUORESCENT 2' X 4' TROFFER, LAY-IN-GRID TYPE, STATIC, STEEL HOUSING, 4" DEPTH, WHITE FINISH, TWO LAMP, FLUSH STEEL DOOR WITH CAM LATCHES, PATTERN 12 .125 ACRYLIC LENS, WITH ONE TWO LAMP ELECTRONIC BALLAST –120/277 VOLT. LAMPS – F32T8/TL735. COOPER CAT# 2GC-232A125-UNV-EB81	F10E	11" RECESSED WALL MOUNTED, EYELID STYLE, CLEAR PRISMATIC POLYCARBONATE LENS (.125" THICK), ELECTRONIC UNIVERSAL BALLAST-120/277 VOLT, WHITE COLOR, EMERGENCY BALLAST. LAMP PL-T-32W/35/4P. COOPER CAT# TRE-11-42CT-DT-WH-L-EM
F2A	FLUORESCENT 2' X 4' TROFFER, FLANGED TYPE, STATIC, STEEL HOUSING, 4" DEPTH, WHITE FINISH, TWO LAMP, FLUSH STEEL DOOR WITH CAM LATCHES, PATTERN 12 .125 ACRYLIC LENS, WITH ONE TWO LAMP ELECTRONIC BALLAST, 277 VOLT. LAMPS – F32T8/TL735. COOPER CAT# 2FC-232A125-UNV-EB81	F11	CEILING/ SURFACE MOUNTED CANOPY LIGHT, HEAVY –GUAGE ALUMINUM HOUSING WITH WHITE POLYESTER POWDER FINISH, INJECTION MOLDED PRISMATIC LENS, MULTI-TAP BALLAST. LAMP MHC100/U/M/3K/ALTO. COOPER CAT#MH-CL-100-LL
F2AE	SAME AS F2A EXCEPT INCLUDE EMERGENCY BATTERY PACK –1100 LUMEN. COOPER CAT# 2FC-232A125-UNV-EB81 COOPER CAT # EL-FBP240H (BATTERY PACK)	P1	HID POLE MOUNTED FIXTURE, TYPE 4 DISTRIBUTION, 400 WATT METAL HALIDE, 277 VOLT BALLAST. POLE SHALL BE 30' SQUARE STRAIGHT STEEL POLE. LAMP MS400/HOR/PS. COOPER CAT#MPTR-4F-400-MT (FIXTURE) UNITED LIGHTING STANDARD CAT# RPSQ-30-6-7
F2E	SAME AS F2 EXCEPT INCLUDE EMERGENCY BATTERY PACK –1100 LUMEN. COOPER CAT#2GC8-232A125 120 EB81 (FIXTURE) COOPER CAT # EL-FBP240H (BATTERY PACK)	P2	HID POLE MOUNTED FIXTURE, TYPE 2/3 DISTRIBUTION, 400 WATT METAL HALIDE, 277 VOLT BALLAST. POLE SHALL BE 30' SQUARE STRAIGHT STEEL POLE. LAMP MS400/HOR/PS. COOPER CAT#MPTR-3F-400-MT (FIXTURE) UNITED LIGHTING STANDARD CAT# RPSQ-30-6-7
F3	FLUORESCENT 2' X 4' TROFFER, LAY-IN-GRID TYPE, STATIC, STEEL HOUSING, 4" DEPTH, WHITE FINISH, THREE LAMP, FLUSH STEEL DOOR WITH CAM LATCHES, PATTERN 12 .125 ACRYLIC LENS, WITH ONE THREE LAMP ELECTRONIC BALLAST –120/277 VOLT. LAMPS – F32T8/TL735. COOPER CAT# 2GC-332A125-UNV-EB81	P3	HID POLE MOUNTED FIXTURE, TYPE 2 DISTRIBUTION, 320 WATT METAL HALIDE, 277 VOLT BALLAST. POLE SHALL BE 25' SQUARE STRAIGHT STEEL POLE. LAMP MS320/U/PS. COOPER CAT#MPTR-2F-320-MT (FIXTURE) UNITED LIGHTING STANDARD CAT# RPSQ-25-5-7
F3E	SAME AS F3 EXCEPT INCLUDE EMERGENCY BATTERY PACK –1100 LUMEN. COOPER CAT#2GC8-332A125 120 EB81 (FIXTURE) COOPER CAT # EL-FBP240H (BATTERY PACK)		
F4	FLUORESCENT 2' X 4' TROFFER, LAY-IN-GRID TYPE, STATIC, STEEL HOUSING, 4" DEPTH, WHITE FINISH, THREE LAMP, FLUSH STEEL DOOR WITH CAM LATCHES, PATTERN 12 .125 ACRYLIC LENS, WITH ONE FOUR LAMP ELECTRONIC BALLAST –120/277 VOLT. LAMPS – F32T8/TL735. COOPER CAT# 2GC-432A125-UNV-EB81		
F4E	SAME AS F4 EXCEPT INCLUDE EMERGENCY BATTERY PACK –1100 LUMEN. COOPER CAT#2GC8-432A125 120 EB81 (FIXTURE) COOPER CAT # EL-FBP240H (BATTERY PACK)		
F5	4' FLUORESCENT WALL MOUNT, ONE PIECE BRUSHED ALUMINUM HOUSING, TWO LAMP, ELECTRONIC BALLASTS-120/277 VOLT. LAMPS – F32T8/TL735. COOPER CAT#BC-232-UNV-EB81		
F5A	2' FLUORESCENT WALL MOUNT, ONE PIECE BRUSHED ALUMINUM HOUSING, TWO LAMP, ELECTRONIC BALLASTS-120/277 VOLT. LAMPS – F17T8/TL735. COOPER CAT#BC-217-UNV-EB81		
F5E	SAME AS F5 EXCEPT INCLUDE EMERGENCY BATTERY PACK. COOPER CAT#BC-232-UNV-EB81 COOPER CAT # EL-FBP240H (BATTERY PACK)		
F6	FULL CUTOFF WALL MOUNTED LUMINAIRE, METAL HALIDE, DIE-CAST ALUMINUM HOUSING, HIGH POWER FACTOR BALLAST –277 VOLT. VERIFY COLOR WITH ARCHITECT. LAMP MH400/U. COOPER CAT# VWM-400-MH-MT-3S-WH-FINISH-L		
F6A	FULL CUTOFF WALL MOUNTED LUMINAIRE, METAL HALIDE, DIE-CAST ALUMINUM HOUSING, HIGH POWER FACTOR BALLAST –277 VOLT. VERIFY COLOR WITH ARCHITECT. LAMP MH400/U. COOPER CAT# VWM-400-MH-MT-4S-WH-FINISH-L		
F7	LED EXIT SIGN, DIE CAST ALUMINUM HOUSING, STENCIL FACE, WHITE HOUSING COLOR, SINGLE FACE, RED PANEL COLOR, DUAL VOLTAGE, NICKEL CADMIUM BATTERY. COOPER CAT#CX-7170R		
F7A	LED EXIT SIGN, DIE CAST ALUMINUM HOUSING, STENCIL FACE, WHITE HOUSING COLOR, DOUBLE FACE, RED PANEL COLOR, DUAL VOLTAGE, NICKEL CADMIUM BATTERY. COOPER CAT#CX-7270R		
F8	4' INDUSTRIAL FLUORESCENT, THREE LAMP (T8), WITH ONE THREE LAMP ELECTRONIC BALLAST 120/277 VOLT. LAMPS- F32T8/TL735. PROVIDE TUBE GUARDS ON LAMPS. COOPER CAT# DIM-332-UNV-EB81		
F8E	4' INDUSTRIAL FLUORESCENT, THREE LAMP (T8), WITH ONE THREE LAMP ELECTRONIC BALLAST 120/277 VOLT. LAMPS- F32T8/TL735. PROVIDE TUBE GUARDS ON LAMPS. INCLUDE 1100 LUMEN BATTERY PACK. COOPER CAT# DIM-332-UNV-EB81-EL-B50		
F9	STRIP FLUORESCENT, TWO LAMP (T8), ELECTRONIC BALLAST 277 VOLT. LAMPS – F32T8/TL835. PROVIDE TUBE GUARDS ON LAMPS. COOPER CAT# SS-232-UNV-EB81		

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE – NFPA 70-2008.
- ALL EQUIPMENT INDICATED SHALL BE FOR USE INDOORS (NEMA 1); UNLESS NOTED OTHERWISE.
- ALL FUSED DISCONNECT SWITCHES SERVING EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS OF THE WORK SHALL BE PROVIDED WITH FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER; UNLESS NOTED OTHERWISE.
- SEPARATE GREEN GROUND CONDUCTORS ARE REQUIRED FOR ALL RECEPTACLE AND FEEDER CIRCUITS; SEE SPECIFICATIONS.
- CONTRACTOR SHALL UTILIZE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES AND MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
- SEE ARCHITECTURAL DRAWINGS FOR AREAS BEING DEMOLISHED AND SPECIFICATIONS FOR REQUIREMENTS OF DIVISION 16000.
- FIRESTOP MATERIALS (U.L.LISTED) ARE SPECIFIED IN SECTION 16010 AND ARE REQUIRED AT ALL PENETRATIONS THROUGH RATED FLOORS, WALLS, CEILING AND PARTITIONS.
- CONDUCTORS SHALL BE COLOR CODED PER N.E.C. AS DESCRIBED IN SECTION 16120. UTILIZE ONLY THE COLORS SPECIFIED AND IDENTIFY ALL CONDUCTORS AND BOXES AS NOTED IN SECTION 16050.
- WRITTEN SPECIFICATIONS DESCRIBING MATERIALS AND METHODS ARE PART OF DIVISION 16000 AND SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION OF THE PROJECT.

©2009 IMC 1734
CONSULTING ENGINEERS
INC.
3120 20th STREET
METAIRIE, LOUISIANA 70002

FINAL DESIGN
Oct 29, 2009

WALDEMAR S. NELSON AND COMPANY
REGISTERED ENGINEERS AND ARCHITECTS
1200 ST. CHARLES AVE NEW ORLEANS, LA.

BROADMOOR
BUILDING by DESIGN
BROADMOOR, L.L.C.
2740 North Arnout Road
Metairie, Louisiana 70002
www.broadmoorllc.com

REV.	DESCRIPTION	DRAWING REVISIONS	
		DATE	APPROVAL
0	FINAL DESIGN	10/29/09	P.S.

NAVIRSEFAC CALIBRATION BLDG.
ELECTRICAL SYMBOL LEGEND AND NOTES
Belle Chasse, Louisiana
MAS JRB New Orleans
DATE: AUGUST 14, 2008
EFD FOR COMMANDER, NAVFAC

NAVIRSEFAC
Naval Facilities Engineering Command
Southeast Division, Jacksonville, FL

STATE OF LOUISIANA
Richard E. Nichols
REG. No. 29596
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12-31-11
EXPIRES FROM ENR 10-29-09

RECORD DRAWING DATE
XX-XXX-20XX
CODE I.D. NO.
DRAWING SIZE: D
SPEC. NO. 06-
CONSTR. CONTR. NO.
N62467
NAVIRSEFAC DRAWING NO.
15030961
SHEET OF
E-1.0