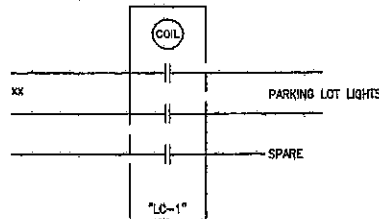


LIGHTING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	LAMP		MOUNTING	CEILING TYPE	REMARKS
		#	TYPE			
A	8'x4' UP/DOWN FLUORESCENT FIXTURE, STEEL HOUSING, PARABOLIC ALUMINUM LENS, R.S. ELECTRONIC BALLAST, WHITE REFLECTOR MOUNT AT 24" BELOW CEILING.	2	F54TSHO 3500K RAPID START	277	CEILING PENDANT	FEEDLESS FROM 254TSHO OPD 558 WIR 277 0810 F1 24 OR PRE-APPROVED EQUAL
B	8" DIA. RECESSED FLUORESCENT DOWN LIGHT WITH CLEAR OPEN REFLECTOR, (2) DOUBLE TUB TUBE HORIZONTAL LAMPS, AND R.S. ELECTRONIC BALLAST, WHITE TRIM RING	2	25W DT 3500K	277	CEILING RECESSED	LITHONIA 40THM 475 200T 48 LD MVOLT 0810 MLP TRW OR EQUAL
C	8" DIA. RECESSED FLUORESCENT WALL WASH FIXTURE (2) DOUBLE TUB TUBE HORIZONTAL LAMPS, CLEAR ALZAC REFLECTOR, SEMI-DIFFUSE LOW REFLECTANCE FINISH WITH WHITE TRIM RING, AND R.S. ELECTRONIC BALLAST.	2	25W DT 3500K	277	CEILING RECESSED	LITHONIA 40THM 475 200T 48 LD MVOLT 0810 MLP TRW OR EQUAL
D	2'x2' SPEC DIRECT/INDIRECT FLUORESCENT TROFFER WITH STEEL HOUSING, BAKED WHITE ENAMEL FINISH, RAPID START ELECTRONIC BALLAST WITH THD < 10%.	2	F40T8S 3500K RAPID START	277	RECESSED	LITHONIA 24V2 20P40 MOR MVOLT 0810 OR PRE-APPROVED EQUAL
E	2'x4' SPEC DIRECT/INDIRECT FLUORESCENT TROFFER WITH STEEL HOUSING, BAKED WHITE ENAMEL FINISH, RAPID START ELECTRONIC BALLAST WITH THD < 10%.	2	F54TSHO 3500K RAPID START	277	CEILING RECESSED	LITHONIA 24V2 254TSHO MOR MVOLT 0810 OR PRE-APPROVED EQUAL
F	4' FLUORESCENT MIRROR LIGHT, ALUMINUM HOUSING, ACRYLIC PRISMATIC UP AND DOWN LENSES, R.S. ELECTRONIC BALLAST	2	F32T8 3500K RAPID START	277	WALL MOUNTED	LITHONIA W282 MVOLT OR EQUAL
G	4' FLUORESCENT DOWNLIGHT, ALUMINUM HOUSING, ACRYLIC PRISMATIC DOWN LENS, R.S. ELECTRONIC BALLAST	2	F32T8 3500K RAPID START	277	WALL MOUNTED	LITHONIA W282 DO MVOLT OR EQUAL
H	FLUORESCENT WRAP FIXTURE, STEEL HOUSING, WHITE FINISH, ACRYLIC PRISMATIC LENS, R.S. ELECTRONIC BALLAST, SURFACE MTD. OR CHAIN HUNG AS REQUIRED.	2	F32T8 3500K RAPID START	277	VARIES	LITHONIA LB232 MVOLT 0810S OR EQUAL
I	INWANDSCEINT GLOBE WITH WREGBUARD, WET LOCATION LISTED.	1	150W INCAN	120	CEILING MOUNTED	LITHONIA VC15 N12 OR EQUAL
J	8" DIA. LED DOWNLIGHT, STEEL HOUSING, SHIELDED LED'S, SEMI-SPECULAR REFLECTOR, PAINTED WHITE FLANGE.	1	BY MFR	277	CEILING RECESSED	LITHONIA D04S LED 200L 277 D04S2 TRW
K	2'x4' SPEC GRADE FLUORESCENT TROFFER WITH STEEL HOUSING, BAKED WHITE ENAMEL FINISH, STEEL DOOR, 0.125" ACRYLIC PRISMATIC LENS AND RAPID START ELECTRONIC BALLAST.	2	F32T8 3500K RAPID START	277	RECESSED	LITHONIA 25P8-G-232-A1212S-MVOLT 0810 OR EQUAL
L	14" DIA. ROUND SURFACE MTD FLUORESCENT FIXTURE, CAST ALUMINUM HOUSING, POLYCARBONATE LENS WITH ALUMINUM BEZEL, R.S. ELECTRONIC BALLAST, WET LOCATION LISTED, COLOR TO BE SELECTED BY ARCHITECT.	2	F42T8T 3500K RAPID START	277	SURFACE MOUNTED	LITHONIA V050C 2/42T8T MVOLT XX LD OR PRE-APPROVED EQUAL
M	WALL MOUNTED FLUORESCENT UP/DOWNLIGHT, STEEL HOUSING, SPECULAR REFLECTOR, STRAIGHT BLADE BAFFLE, WHITE FINISH, ELECTRONIC BALLAST WITH DUST COVER.	2	F54TSHO 3500K	277	WALL MOUNTED	FEEDLESS FROM 54TSHO SPR 6" 277 0810 C210 DV
N	2'x4' FLUORESCENT HI BAY FIXTURE, STEEL HOUSING, WREGBUARD INTEGRAL TO DOOR FRAME, CENTER MOUNTING SYSTEM TO ALLOW FOR PENDANT MOUNTING, MIRROR FINISH REFLECTOR, WHITE FINISH, R.S. ELECTRONIC BALLAST.	6	F54TSHO 4100K INSTANT START	277	CEILING PENDANT	LITHONIA F0824 6 54TSHO N1 X12 NLWS MVOLT 2/3 400T8S LPB35 CUTTERS DISSEMINATE OR PRE-APPROVED EQUAL
O	METAL HALIDE FLOOD LIGHT, ALUMINUM HOUSING, TEMPERED GLASS LENS, FINISH TO BE SELECTED BY ARCHITECT, MOUNT TO TENSION, FINISH TO BE SELECTED BY ARCHITECT.	1	400W M.H.	277	POLE MOUNTED	LITHONIA TH 400W TB OR EQUAL
P	METAL HALIDE SIDE BOX FIXTURE, ALUMINUM HOUSING, TEMPERED GLASS LENS, FINISH TO BE SELECTED BY ARCHITECT 25" SQ. ALUMINUM POLE	1	400W M.H.	277	POLE MOUNTED	LITHONIA W082 400W B45C TB SP04 SCBA OR EQUAL
Q	2'x4' SPEC GRADE FLUORESCENT TROFFER WITH STEEL HOUSING, BAKED WHITE ENAMEL FINISH, 1/2" TB CELL, SPECULAR PARABOLIC LENS, (2) BALLAST COVERS AND R.S. ELECTRONIC BALLASTS WITH THD<10%.	3	F32T8 4100K RAPID START	277	CEILING RECESSED	LITHONIA 25P8-G-232-B-32-18LS-277-1/3 0810S OR PRE-APPROVED EQUAL
R	POLYCARBONATE SIGN WITH GREEN CUSTOM LETTERS, AND UNIVERSAL MOUNTING, FACES AS INDICATED ON PLANS.	-	LED	277	UNIVERSAL	N/A
S	POLYCARBONATE EXIT SIGN WITH GREEN LETTERS, AND UNIVERSAL MOUNTING, FACES AS INDICATED ON PLANS.	-	LED	277	UNIVERSAL	N/A

NOTES

- WHERE DISCREPANCIES BETWEEN DESCRIPTION AND PART NUMBER EXIST, THE GREATER QUANTITY OR BETTER QUALITY SHALL PREVAIL.
- FOR FIXTURE APPROVAL, SUBMIT CATALOG CUTS AND PHOTOGRAPHIC INFORMATION IN ACCORDANCE WITH THE SPECIFICATIONS.
- PROVIDE 1 BAR CLIP AND SUPPORTS FOR FOR L.I.G. FIXTURES PER SPECIFICATIONS.
- ALL RECESSED LIGHT FIXTURES SHALL BE ONE HOUR RATED.
- ALL ACRYLIC LENSES SHALL BE A MINIMUM 1/8" THICK.
- ALL ELECTRONIC BALLASTS TO BE RAPID START AND THD <10%. U.O.N.
- ALL FLUORESCENT FIXTURES MARKED AS NIGHT LIGHT/EMERGENCY LIGHTS (EN/NL) SHALL BE CONNECTED TO AN EMERGENCY CIRCUIT.

LIGHTING CONTACTOR TO BE CONNECTED TO AND CONTROLLED BY BUILDING AUTOMATION SYSTEM. COORDINATE ALL REQUIREMENTS WITH BAC PROVIDER.



- NOTES:
- SEE LIGHTING PLANS FOR EXACT LOCATIONS OF LIGHT FIXTURES. CONDUCTORS SHALL BE SIZED FOR VOLTAGE DROP.
  - LIGHTING CONTACTOR SHALL BE ELECTRICALLY OPERATED, MECHANICALLY HELD, 120V COV. (2) WIRE CONTROL INSIDE A NEMA-1 ENCLOSURE. SQUARE D "LVG 30" OR EQUALS BY GENERAL ELECTRIC, SIEMENS AND CUTLER-HAMMER.

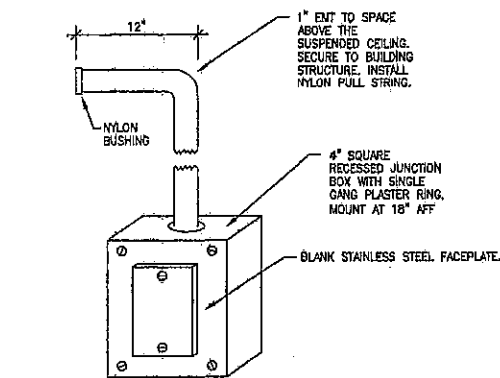
LC-1 DETAIL  
NOT TO SCALE

### GENERAL ELECTRICAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES IN FORCE AT THE TIME OF BIDDING, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE.
- DRAWINGS ARE DIMENSIONED AND GENERALLY INDICATIVE OF WORK REQUIRED. SURFACE RACEWAY, TELEPHONE/DATA OUTLETS AND POWER OUTLETS HAVE BEEN LOCATED BASED ON PRELIMINARY CASE WORK AND COUNTER DIMENSIONS AND LOCATIONS AND COORDINATE ELECTRICAL EQUIPMENT LOCATIONS WITH ACTUAL CASE WORK PROVIDED PRIOR TO INSTALLATION OF ROUGH-IN'S. WHERE REQUIRED, ELECTRICAL ITEM LOCATIONS, MOUNTING HEIGHTS, ETC. SHALL BE REVISED AS REQUIRED TO ACCOMMODATE ADJACENT CASE WORK, COUNTERS AND OTHER EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- WHERE FLUORESCENT TROFFERS ARE INSTALLED IN SUSPENDED ACCESSIBLE CEILINGS, PROVIDE FOUR (4) GUYS PER FIXTURE (FURNISHED BY LIGHT FIXTURE MANUFACTURER) AND CONNECT EACH FLUORESCENT TROFFER TO THE SUSPENDED CEILING "T"-BAR AT FOUR LOCATIONS PER TROFFER. TROFFER SHALL ALSO BE SUPPORTED FROM THE STRUCTURE WITH (2) SUPPORT WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE.
- ALL CONDUITS SHALL BE CONCEALED WITHIN WALLS, CEILINGS OR FLOORS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR PRE-APPROVED BY THE ARCHITECT/ENGINEER.
- INSTALL A SEPARATE GROUNDING CONDUCTOR, INSULATED GREEN, IN ALL CONDUITS. WHERE WIRING COUNTS ARE INDICATED ON DRAWINGS, THESE WIRING COUNTS EXCLUDE THE GROUNDING CONDUCTOR, HOWEVER, GROUNDING CONDUCTOR IS REQUIRED.
- MAINTAIN ACCURATE RECORDS OF ALL CHANGES MADE DURING CONSTRUCTION. PROVIDE A NEATLY MARKED SET OF BLUEPRINTS TO THE ENGINEER/ARCHITECT AT COMPLETION OF THE PROJECT, INDICATING ALL FIELD CHANGES.
- INCREASE BRANCH CIRCUIT CONDUCTORS TO ACCOMMODATE FOR VOLTAGE DROP. 120V CIRCUITS OVER 100' SHALL BE #10 AWG MINIMUM. 277V CIRCUITS OVER 250' SHALL BE #10 AWG MINIMUM.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES. CONTRACTORS TO CORRELATE LOCATIONS OF LIGHTING, SPEAKERS, AIR DIFFUSERS, CHILLES, ETC. WITH REFLECTED CEILING PLANS AS REQUIRED AND DIRECTED BY THE ARCHITECT.
- ALL DEVICES, EQUIPMENT, FIXTURES, ETC., MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
- REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT AND LOCATE DISCONNECT SWITCHES IN ACCORDANCE WITH THE N.E.C.
- REFER TO MECHANICAL SPECIFICATIONS, HANG PLANS AND PLUMBING PLANS FOR ADDITIONAL ELECTRICAL WORK AND INCLUDE ALL COST IN BASE BID.
- REFER TO "CONTROL" SCHEMATICS MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS BY THIS CONTRACTOR.
- UNLESS OTHERWISE NOTED, ALL DEVICE ELEVATIONS REFER TO CENTER OF OUTLET BOX. (SEE SPECIFICATIONS.) THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET LOCATIONS WITH OTHER TRADES.
- ALL RECEPTACLES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY 8" MINIMUM.
- PROVIDE "DEAL-OFFS" WHEN PIPING PASSES THROUGH AREAS OF DIFFERENT AMBIENT TEMPERATURES AND/OR HAZARDOUS AREAS.
- PROVIDE AND WIRE COMPLETE, WHERE DIRECTED BY ARCHITECT/ENGINEER TWO (2) ADDITIONAL EXIT SIGNS AND FOUR (4) ADDITIONAL EMERGENCY EGRESS LIGHTS (BATTERY-OPERATED) TO NEAREST LIGHTING CIRCUIT IN SAME AREA. CONNECT WITH #10 WIRE IN 3/4"Ø.
- IN ADDITION TO FIRE ALARM SYSTEM EQUIPMENT ON THE DRAWINGS, FURNISH AND INSTALL WHERE DIRECTED BY THE ARCHITECT/ENGINEER THE FOLLOWING SYSTEM EQUIPMENT: (4) FIRE ALARM SMOKE DETECTORS. (4) AUDIO/VISUAL ALARM UNITS.
- IN ADDITION TO THE PA SYSTEM EQUIPMENT ON THE DRAWINGS, FURNISH AND INSTALL WHERE DIRECTED BY ARCHITECT/ENGINEER THE FOLLOWING SYSTEM EQUIPMENT: (5) CEILING SPEAKERS AND (5) VOLUME CONTROLS. INCLUDE CABLE AND SUPPORT SYSTEM BACK TO CONTROLS LOCATION.
- PROVIDE AND INSTALL (MIN) #6 INSULATED COPPER GROUND BONDING JUMPER ACROSS INLET AND OUTLET PIPING OF ALL MECHANICAL UNITS AND JUNCTIONS WHERE NON-METALLIC OR DISSIMILAR METALS INTERRUPT THE PATH TO GROUND. THESE ITEMS SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
  - WATER HEATERS
  - CHILLED WATER LINES BETWEEN CHILLER AND MAKE-UP WATER
  - WATER METERS
  - WATER SPLITTERS
  - HOT WATER LINES BETWEEN BOILER AND MAKE-UP WATER
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED FOR THE PROPER INSTALLATION, SUPPORT, OR ANCHORAGE OF ELECTRICAL EQUIPMENT. THE E.C. SHALL LAUNCH CAREFULLY IN ADVANCE WHERE CUTTING, CHANNELING OR DRILLING IS NECESSARY FOR THE PROPER COMPLETION OF ELECTRICAL WORK. COORDINATE WITH OTHER TRADES AS REQUIRED.
- CONNECTION OF BUILDING GROUNDING SYSTEM TO FOUNDATION STEEL SHALL BE DOCUMENTED WITH PHOTOGRAPHS AND ENGINEER/ARCHITECT SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO POURING CONCRETE TO ALLOW VERIFICATION.

### ELECTRICAL LEGEND

- A.F.G. ABOVE FINISHED GRADE  
A.F.F. ABOVE FINISHED FLOOR  
B.F.C. BELOW FINISHED CEILING  
C.B. CIRCUIT BREAKER  
C.O.B. COMBINATION  
D.S. DISCONNECT  
E.C. ELECTRICAL CONTRACTOR/TRADE  
EXTG. EXISTING ITEM  
F.A.C.P. FIRE ALARM CONTROL PANEL  
G.C. GENERAL CONTRACTOR/TRADE  
H.A.O.-OFF-AUTOMATIC  
L.V. IN GRID  
L.I.G. LIGHTING  
M.A. MANUFACTURER  
M.F.R. MECHANICAL CONTRACTOR/TRADE  
N.D.P. MAIN DISTRIBUTION PANELBOARD  
O.L. OVERLOAD  
R.C.P. RECEPTACLE  
T.C.C. TEMPERATURE CONTROL CONTRACTOR/TRADE  
T.C.P. TEMPERATURE CONTROL PANEL  
T.T.B. TELEPHONE TERMINAL BOARD  
T.T.C. TELEPHONE TERMINAL CABBET  
T.M.R. TRANSFORMER  
W.P. WEATHERPROOF  
W.S. EXISTING BRANCH CIRCUIT  
S SINGLE POLE SWITCH  
S3 THREE-WAY SWITCH  
S4 FOUR-WAY SWITCH  
S/P SWITCH AND PILOT LIGHT  
S/WP WEATHERPROOF SWITCH  
S/V LIGHT DIMMER AND SWITCH VOLTAGE AND RATING AS INDICATED  
R SINGLE RECEPTACLE - WALL MOUNTED  
20A 125V DUPLEX RECEPTACLE  
DUPLEX RECEPTACLE FLOOR MOUNTED  
SPECIALTY RECEPTACLE - AMPACITY AND NEMA CONFIGURATION AS SHOWN ON PLANS  
W/P "W/P" AT ANY RECEPTACLE SYMBOL INDICATES IT IS A WEATHERPROOF DEVICE WITH INTEGRAL GROUND FAULT CURRENT PROTECTION, DOUBLE DUPLEX RECEPTACLE  
RECEPTACLE MOUNTING HEIGHT = 1'-5" UNLESS NOTED "X" AT ANY RECEPTACLE SYMBOL = 44" MOUNTING HEIGHT OR AS INDICATED  
DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT INTERRUPTER  
DOUBLE DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT INTERRUPTER  
S/M SMOKE/PIR DETECTOR  
SNDK SMOKE DETECTOR WITH RELAY BASE  
DUT SMOKE DETECTOR WITH TEST/ANNUNCIATOR PANEL INSTALLED ADJACENT TO THE UNIT WITH CONNECTIONS TO MOTOR STARTER AND FACP AS REQUIRED  
HAT HEAT DETECTOR  
FIRE ALARM AUDIO/VISUAL ALARM UNIT  
FIRE ALARM PULL STATION (MANUAL)  
FIRE ALARM LAMP STATION  
FIRE ALARM CONTROL PANEL  
TELEPHONE TERMINAL BOARD  
DATA OUTLET (DOUBLE GANG J-BOX WITH BLANK COVER PLATE)  
X LOCATION  
MOTOR LOCATION  
MANUAL MOTOR STARTER  
COMBINATION SOLID STATE MOTOR STARTER AND DISCONNECT SWITCH WITH H-O-A CONTROL  
SOLID STATE MOTOR STARTER WITH H-O-A CONTROL  
START-STOP PUSHBUTTON STATION, P = PILOT LIGHT  
H-OI-HO-FUSED DISCONNECT SWITCH. 30A OR AS INDICATED.  
FUSED DISCONNECT SWITCH. 30A DISC. WITH 300A FUSE OR AS INDICATED.  
CONTROL CONNECTION  
JUNCTION BOX  
FLOW SWITCH  
TAMPER SWITCH  
TEMPERATURE CONTROL PANEL BY OTHERS  
THERMOSTAT  
POWER DISTRIBUTION PANELBOARD  
SURFACE MOUNTED PANELBOARD  
RECESSED PANELBOARD  
RELAY  
TRANSFORMER  
SPEAKER, WALL MOUNTED  
P.A. SYSTEM SPEAKER, RECESSED IN CEILING  
PHOTOELECTRIC DAUGHTING CONTROL SENSOR  
LINE VOLTAGE DUAL ZONE SENSOR SWITCH MODEL OMR-PC-DZ OR EQUAL  
"X", "Y", "Z" = LIGHT FIXTURE TYPE FROM SCHEDULE  
BY = PANEL AND CIRCUIT NUMBER  
S = SWITCH CONTROL  
WIRE AND CONDUIT SIZE OTHER THAN MINIMUM SPECIFIED.  
CONDUIT SIZE  
WIRE SIZE  
NUMBER OF WIRES  
CONDUIT AND WIRE  
WIRE TURNED UP  
WIRE TURNED DOWN  
CONDUIT AND WIRE RUN TO BE CONTINUED ON THE DRAWING BY ADJACENT AREAS.  
WIRE RUN TO PANELBOARD, A1.3 = PANELBOARD  
"A" CIRCUITS 1 AND 3 THREE CROSS LINES = 3 WIRES. UNLESS OTHERWISE NOTED, THE CONDUIT AND WIRE SIZES ARE THE MINIMUM AS REQUIRED BY THE SPECIFICATIONS. LONG CROSS LINE = NEUTRAL.



TELEPHONE/DATA OUTLET DETAIL  
NOT TO SCALE

ELECTRICAL GENERAL NOTES, LEGEND AND SCHEDULES  
**LIBERTY ELEMENTARY SCHOOL**  
EARLY LEARNING CENTER ADDITION & REMODEL  
CHESTERTON, INDIANA  
gerometta & kinel architects, inc.



DATE 8-24-09

SCALE

DRAWN

JOB 2914

SHEET

E3.0