LIGHTING FIXTURE NOTES

1. FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET JOB REQUIREMENTS. VERIFY FIXTURE MOUNTING AND LOCATION AGAINST ARCHITECTS PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF ALL FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHING IN. REFER TO ARCHITECT \ LIGHTING DESIGNER DRAWINGS AND/OR SPECIFICATIONS FOR ADDITIONAL FIXTURES OR REQUIREMENTS NOT SHOWN IN ELECTRICAL LIGHTING FIXTURE SCHEDULE.

- CONTRACTOR SHALL CONFIRM FIXTURE VOLTAGES, CEILING TRIMS, AND MOUNTING HARDWARE ARE COMPATIBLE WITH THEIR APPLICATIONS AS DETERMINED BY THE DESIGN PROFESSIONAL PRIOR TO ORDERING FIXTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE COORDINATION OF ALL LIGHTING EQUIPMENT AND CONTROL DEVICES WITH CEILING AND WALL TYPES SPECIFIED PRIOR TO ORDERING LIGHTING
- ALL LIGHTING FIXTURES, LAMPS, AND RELATED DEVICES FURNISHED UNDER THIS CONTRACT SHALL CARRY THE APPROVAL LABEL OF UL OR ETL FOR THE SPECIFIC APPLICATION IN WHICH THEY ARE USED.
- WHITE L.E.D.S SHALL MEET, AT A MINIMUM, CHROMATICITY STANDARDS SET BY ANSI/NEMA/ANSLG C79.377-2011. L.E.D. LUMEN MAINTENANCE SHALL BE MEASURED IN ACCORDANCE WITH IESNA LM-60 STANDARDS. PHOTOMETRIC TESTING FOR SOLID STATE LUMINAIRES SHALL BE IN ACCORDANCE WITH IESNA LM-79 STANDARDS.
- FIXTURE SUBMITTAL PACKAGE SHALL BE IN ELECTRONIC SEARCHABLE FORMAT (NOT SCANNED) AND INCLUDE THE FOLLOWING INFORMATION: SUMMARY SHEET LISTING ALL THE LIGHT FIXTURES TYPES, THE CATALOG NUMBER FOR EACH, THE QUANTITY OF EACH FIXTURE THE (SOURCE) LAMP TYPE AND MANUFACTURER, THE DRIVER AND THE VOLTAGE. EACH FIXTURE TYPE SHALL HAVE AN INDIVIDUAL SUMMARY SHEET THAT IDENTIFIES THE FOLLOWING:
 - FIXTURE MANUFACTURER FIXTURE CATALOG NUMBER

CONTROL

- VOLTAGE SYSTEM WATTAGE (LAMP AND DRIVER/BALLAST)
- SOURCE (LAMP) MANUFACTURER/CATALOG NUMBER SOURCE (LAMP) TYPE AND QUANTITY PER FIXTURE DRIVER MANUFACTURER/CATALOG NUMBER
- CONTRACTORS COMMENTS EACH FIXTURE TYPE SHALL HAVE A FIXTURE SPEC SHEET THAT INCLUDES PHOTOMETRIC DATA, FOLLOWED BY A CUT SHEET OF THE (SOURCE) LAMP WHICH IS FOLLOWED BY A CUT SHEET OF THE DRIVER/BALLAST.
- PRODUCT DATA SHALL INCLUDE PHYSICAL DIMENSIONS, AND ANY SPECIAL MOUNTING DETAILS. PROVIDE AN EXIT SIGN SUBMITTAL THAT INCLUDES EACH ARCHITECTURAL FLOOR PLAN WITH THE CEILINGS AND THE EXIT SIGNS NOTED.
- EACH SIGN SHALL BE IDENTIFIED BY TYPE (X1, X2, ETC). THE IDENTIFIER SHALL INCLUDE EXIT SIGN MOUNTING TYPE (CEILING, PENDANT, WALL, END), QUANTITY OF FACE (SINGLE OR DOUBLE) AND DIRECTION OF CHEVRONS. FOR LINEAR CONTINUOUS ROWS OF FIXTURES THAT CONTAIN SECTIONS OF DAYLIGHTING DIMMING ZONES AND OR EMERGENCY LIGHTING SECTION, PROVIDE DETAILED FACTORY SHOP DRAWINGS FOR EACH CONTINUOUS RUN TYPE THAT INDICATES EACH FIXTURE SECTION. THE SHOP DRAWINGS SHALL IDENTIFY FIXTURES WITH SEPARATE DRIVERS TO ACCOMMODATE EMERGENCY LIGHTING AND/OR DAY-LIGHTING
- CONTRACTOR SHALL PROVIDE THE FOLLOWING WITH THEIR BID: THE UNIT PRICE FOR EACH LIGHTING FIXTURE TYPE LISTED WITHIN THE LIGHTING FIXTURE SCHEDULE. THE UNIT PRICE SHALL BE FOR ONE OF THE LISTED MANUFACTURER'S FOR THAT PARTICULAR FIXTURE. THE MANUFACTURER SHALL BE IDENTIFIED. SUBSTITUTIONS FOR FIXTURES PROVIDED BY MANUFACTURERS NOT LISTED IN THE SCHEDULE ARE NOT ACCEPTABLE. SEE BELOW FOR REQUIREMENTS ASSOCIATED WITH SUBMITTING LIGHTING FIXTURE SUBSTITUTIONS.
- THE TOTAL QUANTITY OF EACH FIXTURE TYPE WITH THE EXTENDED COST FOR THAT QUANTITY. THE SPECIFIED FIXTURES HAVE BEEN SELECTED FOR PERFORMANCE AND/OR AESTHETIC REASONS. "ALTERNATE MANUFACTURER" AND "OR APPROVED EQUAL" MEANS EQUIVALENT OR SUPERIOR IN PERFORMANCE, MATERIALS, WORKMANSHIP AND APPEARANCE TO THE SPECIFIED
- EQUIPMENT. FIXTURE SUBSTITUTIONS SHALL ONLY BE CONSIDERED IF: THE SUBMITTING AGENT MUST SUBMIT IN WRITING THE REASONS THAT THIS FIXTURE SHOULD BE CONSIDERED AN EQUAL, TO BE CONSIDERED. THE ACCEPTANCE OR REJECTION OF ANY FIXTURE SUBSTITUTION SHALL BE SOLE DETERMINATION OF THE DESIGN TEAM AND BASED ON, BUT NOT LIMITED TO: OPTICAL PERFORMANCE, CONSTRUCTION QUALITY, AESTHETICS, SHAPE, SIZE, LAMPING, FUNCTIONALITY,
- ACCESSORIES, LEAD TIMES, COSTS, AND FEATURES. THE SUBSTITUTED FIXTURE SHALL BE ACCOMPANIED BY A CUT SHEET OF THE BASIS OF DESIGN FIXTURE FOR A SIDE BY SIDE COMPARISON. THE SUBSTITUTED FIXTURE SHALL HAVE NEARLY IDENTICAL LUMEN OUTPUT TO THE SPECIFIED FIXTURE. ANY SUBSTITUTE OR ALTERNATE
- FIXTURE SHALL BE PROVIDED WITH FULL PHOTOMETRICS IDENTIFYING FC LEVELS FOR THE PROJECT AREA. THE DESIGN LIGHTING POWER DENSITY HAS BEEN ESTABLISHED TO MEET PROJECT LEED GOALS OR TO COMPLY WITH THE ENERGY CODE. ALTERNATE OR SUBSTITUTED FIXTURES SHALL HAVE THE IDENTICAL (OR LESS) SYSTEM WATTAGE TO THE SPECIFIED FIXTURE. ANY SUBSTITUTE OR ALTERNATE FIXTURE SHALL BE PROVIDED WITH FULL ACCOMPANYING COMCHECK CALCULATION IDENTIFYING COMPLIANCE
- WITH PROJECT OR CODE REQUIRED LPD LIGHT POWER DENSITY LEVELS. IF REQUESTED BY THE DESIGN TEAM, A NON-RETURNABLE WORKING SAMPLE OF THE SUBSTITUTION FIXTURE MUST BE PROVIDED TO THE ARCHITECT WITHIN 10 WORKING DAYS UPON REQUEST. THE SAMPLE SHALL BE CORD AND PLUG CONNECTED FOR 120 VOLT OPERATION AND INCLUDE CONTROLS THAT MATCH THE SUPPLIED CONTROLS FOR FULL SYSTEM EVALUATION.
- PROVIDE CONTRACTOR'S CERTIFICATION STATING THAT THE PROPOSED SUBSTITUTION CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS IN EVERY RESPECT AND IS APPROPRIATE FOR THE APPLICATIONS INDICATED IN THE DOCUMENTS.
- CONTRACTOR'S CERTIFICATION STATING THAT ANY MODIFICATIONS TO ANY BUILDING SYSTEM OR EQUIPMENT THAT MAY RESULT FROM THE PROPOSED LIGHTING FIXTURE SUBSTITUTION WILL BE DESIGNED AND CONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY BECOME NECESSARY SHOULD THE PROPOSED SUBSTITUTION FAIL TO PERFORM IN A MANNER THAT MATCHES THE SPECIFIED FIXTURE.
- CONTRACTOR-NET UNIT PRICE FOR THE SPECIFIED FIXTURE AND FOR THE PROPOSED SUBSTITUTE FIXTURE. THE LIGHTING DESIGNER AND ENGINEER SHALL BE REIMBURSED BY THE CONTRACTOR FOR ALL OF THE DESIGNER'S TIME ASSOCIATED WITH THE REVIEW OF THE PROPOSED FIXTURE SUBSTITUTION(S). PAYMENT SHALL BE MADE IN ADVANCE OF THE REVIEW. BASED ON THI DESIGNER'S ESTIMATE OF THE REQUIRED TIME. THE PAYMENT SHALL BE BASED ON THE DESIGNER'S STANDARD HOURLY RATES FOR THE PERSONNEL INVOLVED IN THE REVIEW ALL OF THE INFORMATION ABOVE SHALL BE PROVIDED WITH FIXTURE SUBMITTAL FOR REVIEW OF ALTERNATE OR SUBSTITUTE FIXTURES. IF
- ALL REQUIRED INFORMATION IS NOT PROVIDED ALTERNATE OR SUBSTITUTE FIXTURES WILL NOT BE REVIEWED. THE LIGHTING FIXTURE SCHEDULE IDENTIFIES FIXTURES BY TYPE AND IN SOME CASES THE NOMINAL LENGTH. THE ELECTRICAL DRAWINGS MAY INCLUDE A SUB NUMBER TO INDICATE THE SUBDIVIDED FIXTURE LENGTHS TO IDENTIFY EMERGENCY LIGHTING FIXTURES, FIXTURES WITH DAY-LIGHTING CONTROL AS WELL AS ACCOUNT FOR FIXTURE WATTAGES BY FOOT. PROVIDE CONTINUOUS RUNS OF JOINED FIXTURES TO CREATE LONGER CONTINUOUS RUN LENGTHS FOR A VIRTUALLY SEAMLESS CONNECTION TO MATCH THE TOTAL FIXTURE LENGTHS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS. LENSES ARE TO BE AS LONG AS POSSIBLE WITH MINIMAL BREAKS. FIXTURE TAKEOFFS SHALL BE BASED ON OVERALL RUN LENGTHS BASED ON THE LONGEST BODY SECTION THAT CAN BE MANUFACTURED. FOR CONTINUOUS FIXTURES, THERE ARE TO BE NO END CAPS BETWEEN JOINTS. RATHER A HAIRLINE SEAM AND SHARED PENDANT SUPPORTS AT JOINTS. POWER DROPS FOR NORMAL AND EMERGENCY POWER SHALL BE PROVIDED IN THE SMALLEST NUMBER POSSIBLE. FIXTURES SHALL BE PROVIDED WITH SEPARATE DRIVERS TO ACCOMMODATE EMERGENCY LIGHTING OR DAY-LIGHTING CONTROL. ELECTRICAL CONTRACTOR TO COORDINATE ALL POWER DROP LOCATIONS WITH ARCHITECT AND LIGHTING DESIGNER.
- SERIES FIXTURES SHALL SATISFY LENGTHS AS SHOWN ON THE DRAWINGS. FIXTURE LETTERS SHOWN ONCE ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE NOTED.
- SERIES FIXTURES SHALL HAVE THE LENS FLUSH, EVEN AND MEET IN A HAIRLINE JOINT. PROTRUDING, ANGLED OR OVERLY SPACED LENSING IS NOT ACCEPTABLE. FIXTURES SHALL BE BUTTEN TOGETHER; PLUMB AND ALIGNED SO THAT THERE IS NOT LIGHT LEAKS/MISALIGNMENTS BETWEEN FIXTURES AND OTHER FITTINGS. SUSPENDED CONTINUOUS ROW FIXTURES SHALL HAVE THE SUSPENSION POINTS FOR THAT FIXTURE PERFECTLY ALIGNED TO AVOID VISIBLE BENDING AND MISALIGNMENT ALONG THE CONTINUOUS ROW.
- FOR COVE MOUNTED LINEAR PROVIDE DETAILED SHOP DRAWINGS FOR EACH COVE DENOTING FIXTURE LAYOUT. COVE DIMENSIONS SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS.
- ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILING WITH ROD OR JACK CHAIN SUPPORT. STEM LENGTHS, STEM FINISHES AND STEM LOCATIONS OF ALL PENDANT FIXTURES TO BE VERIFIED AND CONFIRMED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDERING STEMS. ALL FIXTURE SUSPENSION CABLE SHALL BE TRIMMED SUCH THAT THE CABLE IS NOT VISIBLE AND DOES NOT HANG OVER OR BELOW THE LIGHT FIXTURE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DRIVERS AND OR TRANSFORMERS REQUIRED TO OPERATE ALL FIXTURES SPECIFIED, INCLUDING REMOTE DRIVERS AND/OR TRANSFORMERS AND THE ENCLOSURES FOR SAME.
- DRVIERS AS REQUIRED TO KEEP VOLTAGE DROP IN THE SECONDARY WIRING BELOW 3% OF RATED VOLTAGE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF COMPATIBILITY BETWEEN FIXTURES, DRIVERS AND/OR TRANSFORMERS
- SPECIFIED, AND DIMMING AND OTHER CONTROL DEVICES SPECIFIED. ALL DRIVERS/BALLASTS USED WITH OCCUPANCY SENSORS SHALL BE FULLY COMPATIBLE. NOTIFY ARCHITECT AND ENGINEER CONSULTANT OF ANY INCOMPATIBILITY PRIOR TO ORDERING EQUIPMENT ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE COORDINATION OF ALL LIGHTING EQUIPMENT AND CONTROL DEVICES
- WITH CEILING AND WALL TYPES SPECIFIED PRIOR TO ORDERING LIGHTING EQUIPMENT. UNLESS NOTED TO THE CONTRARY PROVIDE WHITE CEILING TRIMS FOR ALL RECESSED LUMINAIRES.

CONTRACTOR SHALL SELECT, FURNISH AND INSTALL THE CORRECT SIZE OF SECONDARY WIRING FROM REMOTE TRANSFORMERS AND/OR REMOTE

- PRELIMINARY AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE DURING INSTALLATION BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING PLANS / AIMING DIAGRAM, WHERE SUCH A DIAGRAM IS INCLUDED IN CONTRACT DOCUMENTS OR AS AN ADDENDUM. FINAL AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR AS DIRECTED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE LABOR AND EQUIPMENT FOR FOCUSING OF ADJUSTABLE FIXTURES AND PRESETTING OF LIGHTING CONTROL SYSTEMS. FOCUSING AND PRESETTING SHALL BE DONE IN THE PRESENCE OF THE DESIGN PROFESSIONAL. CONTRACTOR SHALL FOCUS LIGHTING AFTER DARK IF DIRECTED BY THE OWNERS REPRESENTATIVE. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE AT LEAST ONE DAY OF A FACTORY-TRAINED AND CERTIFIED TECHNICIAN TO PROVIDE WARRANTY START UP AND PROGRAMMING FOR ALL LIGHTING CONTROL SYSTEMS AND PROGRAMMABLE LIGHTING FIXTURES
- IN ALL FIXTURES WITH ADJUSTABLE SOCKETS, SET SOCKETS DURING INSTALLATION TO LOCATE SPECIFIED LIGHT SOURCE IN CORRECT RELATIONSHIP TO REFLECTOR AS RECOMMENDED BY FIXTURE MANUFACTURER.
- INSTALL CONES IN WALL WASHERS WITH CUTOUT(S) IN INNER REFLECTOR FACING WALL(S) TO BE LIT. WHERE CONTROL DEVICES WITH FINNED HEAT SINKS. SUCH AS LUTRON "NOVA" SERIES. ARE SPECIFIED. FINS SHALL NOT BE REMOVED TO MAKE
- DEVICES FIT BOXES MORE CONVENIENTLY. REFER TO MANUFACTURERS SPECIFICATIONS FOR THE NUMBER OF GANG BOXES REQUIRED TO ACCOMMODATE THE SPECIFIED EQUIPMENT WITHOUT BREAKING OFF FINS. RELAYS USED FOR CONTROL OF LIGHTING (IF ANY) SHALL BE LOCATED AND THE LOCATION SOUNDPROOFED SO AS TO BE INAUDIBLE FROM
- NORMALLY OCCUPIED AREAS WHEN ACTIVATED. TO ASSURE THE MINIMIZATION OF NOISE, FIXTURES MUST BE MOUNTED SECURELY TO THE SUPPORTING STRUCTURE, AND ALL LOOSE INTERNAL
- PARTS MUST BE SECURELY TIGHTENED BEFORE ACTIVATING CIRCUITS. WHERE TRANSFORMERS HAVE SELECTOR SWITCHES TO ALLOW USE OF VARIOUS WATTAGE LAMPS, THESE SWITCHES MUST BE SET TO THE WATTAGE OF THE SPECIFIED LAMP. LED DRIVERS LOCATED ABOVE THE CEILING OR EXTERIOR OF THE BUILDING SHALL BE LISTED FOR THE APPLICATION. THERE HAS BEEN ATTEMPTS BY ELECTRICAL CONTRACTORS TO INSTALL DIFFERENT TYPES OF FLEXIBLE CORDS IN THE WALLS, OTHER INTERSTITIAL SPACES ABOVE THE CEILING, AND EXTERIOR LOCATIONS. THE INSTALLATION OF FLEXIBLE CORDS ABOVE THE CEILING AND IN WALLS IS PROHIBITED BY NEC 400.12. A

PROPERLY RECOGNIZED NEC CHAPTER 3 WIRING METHOD SHALL BE UTILIZED FOR THIS TYPE OF INSTALLATION. IN ANY APPLICATION, MATERIALS LISTED AND LABELED FOR THE USE SHALL BE USED. ALL INSTRUCTIONS AND LISTING INFORMATION SHALL BE SUBMITTED WITH THE FIXTURE AND

- AVAILABLE FOR REVIEW BY THE ENGINEER AT THE TIME OF INSPECTION TO VERIFY COMPLIANCE. EXIT SIGNS SHALL BE PROVIDED WITH ARROWS AS INDICATED ON DRAWINGS. EXIT SIGNS SHALL TYPICALLY BE CEILING MOUNTED WHERE VISIBLE OR ON WALL WHERE CEILING MOUNTING IS NOT PRACTICAL. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC MOUNTING DIRECTION AND FOR
- LOCATION COORDINATION, ALL SINGLE AND DOUBLE FACE PENDANT OR END MOUNTED EXIT SIGNS SHALL HAVE A MIRROR BACKING. INCLUDE COST OF ADDING 4 ADDITIONAL EXIT SIGNS LOCATED PER DIRECTION OF THE ARCHITECT/ENGINEER. COST SHALL INCLUDE BRANCH CIRCUIT WIRING AS WELL AS PREMIUM TIME.
- CORRELATED COLOR TEMPERATURE (CCT): THE ABSOLUTE TEMPERATURE MEASURED IN DEGREES KELVIN, OF A BLACKBODY RADIATOR HAVING CHROMATICITY RESEMBLING THAT OF AN ELECTRIC LIGHT SOURCE. FOR LED SOURCES, CCT SHALL NOT DEVIATE FROM THE REFERENCE COLOR TEMPERATURE BY NO MORE THAN THREE MACADAM ELLIPSES, AS DEFINED BY NEMA/ANSI/ANSI/G C38.377-2011. COLOR RENDERING INDEX (CRI): MEASURE OF COLOR SHIFT OBJECTS UNDERGO WHEN ILLUMINATED BY AN ELECTRIC LIGHT SOURCE AS
- COMPARED WITH THE COLOR OF THE SAME OBJECTS ILLUMINATED BY A REFERENCE SOURCE AT THE SAME COLOR TEMPERATURE. CRI VALUES FOR ELECTRIC LIGHT SOURCES RANGE FROM APPROXIMATELY 20 (LOW PRESSURE SODIUM) TO 99 (HALOGEN). CRI VALUES FOR LED SOURCES SHALL BE MEASURES AFTER 6000 HOURS AND SHALL NOT DEVIATE MORE THAN 3 POINTS FROM THE RATED VALUE.
- LED LIGHT ENGINE: THE COMBINED LED LIGHT SOURCE AND ITS ASSOCIATED ELECTRONIC DRIVER. THE LED LIGHT ENGINE MAY HAVE AN INTEGRAL DRIVER OR THE DRIVER MAY BE HOUSED IN A SEPARATE ENCLOSURE. LED DRIVER: CONTROL DEVICE THAT MAINTAINS CONSTANT AMOUNT OF CURRENT TO THE LED LIGHT SOURCE. LED DRIVERS GENERALLY
- OPERATE AT 12VDC OR 24 VDC. SOME DRIVERS ARE DESIGNED TO ACCEPT BRANCH CIRCUIT VOLTAGE RANGING FROM 120VAC THROUGH 277VAC OR MAY REQUIRE A SEPARATE TRANSFORMER.
- TRANSFORMER: ELECTROMAGNETIC OR ELECTRONIC DEVICE THAT STEPS DOWN PRIMARY VOLTAGE TO A LOWER SECONDARY VOLTAGE. GENERALLY SECONDARY VOLTAGE WILL BE 12V OR 24V. DIMMING: THE REDUCTION OF LIGHT INTENSITY OF A LIGHT SOURCE. ALL SOURCES SHALL HAVE A SMOOTH, FLICKER-FREE AND CONTINUOUS
- DIMMING CURVE AS NOTED IN LUMINAIRE DESCRIPTION. LED SOURCES MAY BE DIMMED BY EITHER CONSTANT CURRENT REDUCTION (CCR) OR BY PULSE WIDTH MODULATION (PWM) DIMMING FOR CONSTANT CURRENT DRIVERS.
- RATED LUMEN MAINTENANCE LIFE: THE ÉLAPSED OPERATING TIME OVER WHICH AN LED LIGHT SOURCE WILL MAINTAIN THE PERCENTAGE OF ITS INITIAL LUMEN OUTPUT.L70: TIME, IN HOURS, TO 70% LUMEN MAINTENANCE.L50: TIME, IN HOURS, TO 50% LUMEN MAINTENANCE

LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	DIMMI NG		TOTAL WATTAGE	COMMENTS
DH04	RECESSED ADJUSTABLE STRAIGH APERTURE TRIMMED LED SMALL LIGHT FIXTURE.	RECESSED	LF ILLUMINATION	MF33BNT16L9030WGGD2UWW	Yes	277	16	NEW FIXTURES TO MATCH EXISTING.
DS-01	WALL WASHER LED FIXTURE.	RECESSED	LUMENALPHA	LACSLUM-A-L13-27K-CR95-W-RD-NST / LACSMTG-A-120-L13-CR95-DA1-NC	Yes	120	13	NEW FIXTURES TO MATCH EXISTING.
LF-102	DECORATIVE WALL SCONCE	WALL	FINE ART HANDCRAFTED LIGHTING	FORET WALL SCONCE	Yes	120	20	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
LF-103	CEILING MOUNTED PENDANT AT BAR	PENDANT	HAMMERTON STUDIO	GEM LINEAR SUSPENSION	Yes	120	36	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
LF-104	PERIMETER COVE LIGHTING AND CHANNEL	RECESSED	LUMINII OPTIC ARTS	LineLED LLDW36	Yes	120	390	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
LF-105	LOUNGE FEATURE LIGHTING	PENDANT	QUALITY LIGHTING SYSTEMS INC.		Yes	120	150	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
LF-106	DECORATIVE SLOTS SURFACE MOUNTED FIXTURE.	SURFACE	HAMMERTON STUDIO	GEM FLUSH MOUNT	Yes	120	16	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
LF-107	RECESSED LIGHT FIXTURE	RECESSED	LUMENCORE	LCRS ROUND 4.5"	Yes	120	20	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
LF-108.8	LINEAR RECESSED WALL WASH FIXTURE	RECESSED	FOCAL POINT	FSM2PR	Yes	120	64	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
LF-108.17	LINEAR RECESSED WALL WASH FIXTURE	RECESSED	FOCAL POINT	FSM2PR	Yes	120	136	REFER TO LIGHTING CONSULTANTS DRAWINGS FOR SPECIFICATIONS.
	EXIT SIGN. EDGE LIT WITH MIRROR BACKING, CEILING MOUNTED, SINGLE FACE WITH ARROWS AS INDICATED. RED FACE	CEILING	LITHONIA	EDGR-1-RMR	No	277		COORDINATE FACES AND CHEVRONS WITH FLOOR PLANS. COORDINATE MOUNTING KIT WITH FLOOR PLANS.
X1W1	EXIT SIGN. EDGE LIT WITH MIRROR BACKING, WALL MOUNTED, SINGLE FACE WITH ARROWS AS INDICATED.	SURFACE	LITHONIA	EDGR-1-RMR	No	277	2	COORDINATE FACES AND CHEVRONS WITH FLOOR PLANS

CROCKFORDS -**CATSKILLS**

Monticello. NY 1270

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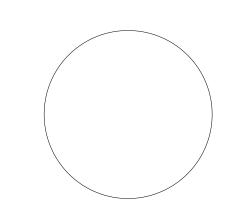
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REVISIONS

DRAWN JDB

SCALE 12" = 1'-0"

ELECTRICAL LIGHTING FIXTURE SCHEDULE