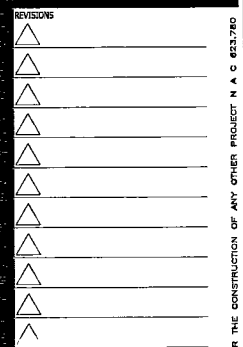


LIGHTING FIXTURE SCHEDULE

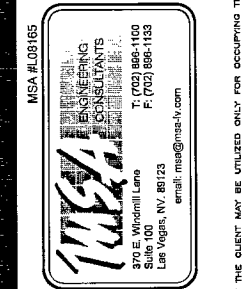
FIXTURE SCHEDULE GENERAL NOTES:

1. FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY CODES AND ORDINANCES.
2. FIXTURES SHALL INCLUDE ALL ACCESSORIES NECESSARY FOR INSTALLATION ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND AS REQUIRED BY CODES AND LOCAL ORDINANCES.
3. PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.
4. ALL LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE AND SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP AND BALLAST(S). (OSRAM SYLVANIA SERIES)
5. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.
6. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILING.
7. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.
8. ALL FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE UL AND CEM LABELS. ALL BALLASTS MUST CONFORM TO TITLE 24 REQUIREMENTS FOR PERFORMANCE. PROVIDE MULTIPLE BALLASTS FOR DUAL-LEVEL SWITCHING AND WIRING (i.e. TANDEN) AS INDICATED ON THE PLANS.
9. UPON INITIAL ENERGIZING OF ALL NEW FLUORESCENT LAMPS, A CONTINUOUS PERIOD OF 30 HOURS SHALL OCCUR PRIOR TO DE-ENERGIZING OF LAMPS, FOR MANUFACTURER REQUIRED LAMP BURN-IN AND MAXIMUM LAMP LIFE.
10. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.
11. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS ESPECIALLY DIMMED SYSTEMS. FIXTURES, LAMPS, BALLAST(S), AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
12. PROVIDE CLEARANCES FROM COMBUSTIBLES A MINIMUM OF 12" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH ARE NON-IC RATED.
13. PROVIDE A MINIMUM OF TWO (2) #2 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FLUORESCENT FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.
14. FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING IN COMPLIANCE WITH NEC ARTICLE 1600.
15. EMERGENCY LIGHTING UNITS SHALL BE EQUIPPED WITH FACTORY-INSTALLED INTEGRAL TEST SWITCHES.
16. PROVIDE DOOR-TO-FRAME AND LENS-TO-DOOR GASKETING, INVERTED LENS, AND FOOD SERVICE RATING FOR ALL FIXTURES LOCATED IN FOOD SERVICE AREAS.
17. FLUORESCENT LUMINAIRE THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE OR BALLASTED LUMINAIRE THAT ARE SUPPLIED FROM MULTI-WIRE BRANCH CIRCUITS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE, TO DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF SUPPLY ALL CONDUCTORS OF THE BALLAST, INCLUDING THE GROUNDING CONDUCTOR IF ANY. THE LINE SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE LOCATED 50' AS TO BE ACCESSIBLE TO QUALIFIED PERSONS BEFORE SERVICING OR MAINTAINING THE BALLAST PER NEC 410.13(G).

TYPE	DESCRIPTION AND MANUFACTURER	NOTES	TYPE	DESCRIPTION AND MANUFACTURER	NOTES	TYPE	DESCRIPTION AND MANUFACTURER	NOTES
A1 15	INCANDESCENT PENDANT OVER BAR AREA. VOLTAGE: 120V LAMP: (1) T8W A19, IF, 130V MANUFACTURER: HALO #42220		F3 80	4' 2 LAMP FLUORESCENT STRIP LIGHT, SUSPENDED FROM STRUCTURE ABOVE WITH ELECTRONIC BALLAST AND WIRE GUARD. VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #11-4-232-ALUM-UG14-EB2-2T1		F1E 80	4' 2 LAMP FLUORESCENT SURFACE MOUNT WITH ELECTRONIC BALLAST. UL LISTED FOR WET LOCATION AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 120V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #32-4-232-EB2-120-EL14	
A2 5000	DIE CAST ALUMINUM FLOODLIGHT WITH QUARTZ LAMP AND KNUCKLE MOUNT. VOLTAGE: 200V LAMP: (1) 800W QUARTZ MANUFACTURER: NORTH STAR LIGHTING *HQ-9-5		F3E 80	4' 2 LAMP FLUORESCENT STRIP LIGHT, SUSPENDED FROM STRUCTURE ABOVE WITH ELECTRONIC BALLAST, WIRE GUARD AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #11-4-232-ALUM-UG14-EB2-2T1-EM1400		F2 40	4' 1 LAMP FLUORESCENT SURFACE MOUNT WITH ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (1) F032/T8/3500K MANUFACTURER: WILLIAMS #16-4-132-ALUM-EB2-2T1	
B1 2000	WALL MOUNTED HEAVY DUTY DIE CAST ALUMINUM WITH TEMPERED GLASS LENS. UL LISTED FOR WET LOCATION. VOLTAGE: 277V LAMP: (1) 800W MH MANUFACTURER: ARK LIGHTING *M8M-103-150-HP3-MT-2T1		F4 55	8.5" DIAMETER RECESSED DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, BLACK FLANGE AND ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (1) 42 TRT, 2700K MANUFACTURER: INFINITY #PH85-142T-EB-2T1		F3D 40	WALL MOUNT WITH HIGH IMPACT, POLYCARBONATE LENS AND ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (1) 32W G024q-3 MANUFACTURER: INFINITY #UL-PV-132-GX24q-3-2T1	
B2 1250	HIGH BAY METAL HALIDE FIXTURE. VOLTAGE: 277V LAMP: (1) 800W MH MANUFACTURER: MUSCO *LIGHT-PAK		F4E 55	8.5" DIAMETER RECESSED DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, BLACK FLANGE, ELECTRONIC BALLAST AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (1) 42 TRT, 2700K MANUFACTURER: INFINITY #PH85-142T-EM1400-2T1		F4 40	4' 1 LAMP STAGGERED STRIP WITH ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (1) F032/T8/3500K MANUFACTURER: WILLIAMS #14-4-132-EB1-2T1	
B3 125	WALL MOUNT FIXTURE WITH "RLM" REFLECTOR, GLOBE AND GOOSE NECK ARM. VOLTAGE: 277V LAMP: (1) 100W MH MANUFACTURER: ARK LIGHTING *A8-16-AGB-101		F5E 105	10" DIAMETER FLUORESCENT DOWNLIGHT WITH SPECULAR CLEAR REFLECTOR, ELECTRONIC BALLAST, CLEAR GLASS LENS AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 120V LAMP: (2) 42W TRT, 2700K MANUFACTURER: INFINITY #PH10-242-EB-EM1400-120		F5 80	4' LONG SURFACE MOUNTED FLUORESCENT FIXTURE WITH GASKETED LENS AND ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #36-4-232-FC-EB2-2T1	
B4 30	8"X8" SQUARE SURFACE MOUNT METAL HALIDE WITH ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (1) 100W MH MANUFACTURER: INFINITY #M928-MH-10-MED-2T1		F6 80	4' 2 LAMP FLUORESCENT WITH REFLECTOR, WITH NO UP LIGHT, ELECTRONIC BALLAST AND WIRE GUARD. VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #30-4-232-UG11-EB2-2T1		S1 5000	SINGLE HEAD, FULL CUT OFF LUMINAIRE ARM MOUNTED ON A 2 1/2" HIGH STEEL POLE, ANCHORED TO CONCRETE BASE EXTENDING 30" ABOVE FINISHED GRADE. PROVIDE 1/2" IN-LINE RISE IN POLE HANDHOLE. VOLTAGE: 480V LAMP: (2) 400W - HPS MANUFACTURER: DAL #TRA-8PM-D4-400HPS-MT-6TND-TPE11-060D POLE: KW #R5P20-6-02-1-5T2-COLOR-DT102-BC	
B5 30	12" SQUARE SEMI-RECESSED WALL MOUNTED WITH POLYCARBONATE LENS. VOLTAGE: 277V LAMP: (1) 100W MH MANUFACTURER: FAIL-SAFE #PHFC-HE-10-H-2T1		F6E 80	4' 2 LAMP FLUORESCENT WITH REFLECTOR, WITH NO UP LIGHT, ELECTRONIC BALLAST, WIRE GUARD AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #30-4-232-EMT-UG11-EB2-2T1		S2 10000	DOUBLE HEAD, FULL CUT OFF LUMINAIRE ARM MOUNTED ON A 2 1/2" HIGH STEEL POLE, ANCHORED TO CONCRETE BASE EXTENDING 30" ABOVE FINISHED GRADE. PROVIDE 3/4" IN-LINE RISE IN POLE HANDHOLE. VOLTAGE: 480V LAMP: (2) 400W - HPS MANUFACTURER: DAL #TRA-8PM-D4-400HPS-MT-6TND-TPE11-060D POLE: KW #R5P20-6-02-1-5T2-COLOR-DT102-BC	
B6 125	DIE-CAST ALUMINUM WALL MOUNT WITH POLYCARBONATE LENS. VOLTAGE: 277V LAMP: (1) 800W HPS MANUFACTURER: NORTH STAR *CUP-HID100W-ASY-9L5-4MT-H-BZ-FE		F7 210	16" DIAMETER SUSPENDED FROM STRUCTURE WITH ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (4) 32W TRT, 2700K MANUFACTURER: GUTH #LP-EI-21-432T-2		S3 130	SINGLE HEAD, FULL CUT OFF LUMINAIRE ARM MOUNTED ON A 1 1/2" HIGH STEEL POLE, ANCHORED TO CONCRETE BASE EXTENDING 12" ABOVE FINISHED GRADE. VOLTAGE: 480V LAMP: (1) 80W - HPS MANUFACTURER: DAL #TRA-8PM-D4-150HPS-MT-6TND-TPE11-060D POLE: KW #R5P3-6-02-1-DM-COLOR-BC	
B7 125	NOT USED.		F7E 210	16" DIAMETER SUSPENDED FROM STRUCTURE WITH ELECTRONIC BALLAST AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (4) 32W TRT, 2700K MANUFACTURER: GUTH #LP-EI-21-432T-2-BEF		S4 160	FOUR HEAD, FULL CUT OFF LUMINAIRE ARM MOUNTED ON A 1 1/2" HIGH STEEL POLE, ANCHORED TO CONCRETE BASE EXTENDING 12" ABOVE FINISHED GRADE. VOLTAGE: 480V LAMP: (4) 150W - HPS MANUFACTURER: DAL #TRA-8PM-D4-150HPS-MT-6TND-TPE11-060D POLE: KW #R5P3-6-02-1-DM142302-COLOR-BC	
B8 1000	ROUND DIE CAST ALUMINUM WITH GLASS LENS. VOLTAGE: 277V LAMP: (2) 400W MH MANUFACTURER: NORTH STAR LIGHTING *CON-R-2-400MH-480-ALV POLE #RTSP20-8.5-11-BRX-PC-BC		F8 40	15" DIAMETER, RECESSED DOWNLIGHT WITH FRESNEL LENS AND ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (1) 42 TRT, 2700K MANUFACTURER: INFINITY #PHL15-FF		S5 1000	TWO HEAD LUMINAIRE ARM MOUNTED ON A 3 1/2" HIGH STEEL POLE ANCHORED TO CONCRETE BASE EXTENDING 12" ABOVE FINISHED GRADE. VOLTAGE: 480V LAMP: (2) 400W - MH MANUFACTURER: THORN *CON-L-R-400MH-E/LIFLITTER AND ANTIGLARE SHIELD POLE: KW #RTSP38-8.5-11-PC-BC # #A8002-18-2-F	
B9 220	12" DIAMETER DIRECT BURIAL WITH WALK OVER GLASS. VOLTAGE: 277V LAMP: (1) 150W MH MANUFACTURER: TECH LIGHTING *TDB4W150MH-TDB4-GK-WO		F8E 40	15" DIAMETER, RECESSED DOWNLIGHT WITH FRESNEL LENS AND ELECTRONIC BALLAST AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (1) 42 TRT, 2700K MANUFACTURER: INFINITY #PHL15-FF-EM-1400		S6 1500	THREE HEAD LUMINAIRE ARM MOUNTED ON A 3 1/2" HIGH STEEL POLE ANCHORED TO CONCRETE BASE EXTENDING 12" ABOVE FINISHED GRADE. VOLTAGE: 480V LAMP: (3) 400W - MH MANUFACTURER: THORN *CON-L-R-400MH-E/LIFLITTER AND ANTIGLARE SHIELD POLE: KW #RTSP38-8.5-11-PC-BC # #A2000-18-2-F AT 30" ABOVE BASE	
B10 220	10"X10" SQUARE SURFACE MOUNT METAL HALIDE WITH ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (1) 150W MH MANUFACTURER: INFINITY #M928-MH-10-MED-2T1		F9 120	2'X4' FLUORESCENT SURFACE MOUNTED, 3 LAMP, ACRYLIC LENS AND ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (3) F032/T8/3500K MANUFACTURER: WILLIAMS #2-4-332-FAI225-EB3-2T1		S7 130	SINGLE HEAD, FULL CUT OFF LUMINAIRE ARM MOUNTED ON A 1 1/2" HIGH STEEL POLE, ANCHORED TO CONCRETE BASE EXTENDING 12" ABOVE FINISHED GRADE. VOLTAGE: 480V LAMP: (1) 80W - MH MANUFACTURER: DAL #TRA-8PM-D4-150MH-MT-6TND-TPE11-060D POLE: KW #R5P3-6-02-1-DM-COLOR-BC	
F1 80	2'X4' LAY-IN FLUORESCENT TROFFER, 2 LAMP, ACRYLIC LENS AND ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #50G-824-232-A1225-F0325-F348-EB2-1N1V		F9E 120	2'X4' FLUORESCENT SURFACE MOUNTED, 3 LAMP, ACRYLIC LENS AND ELECTRONIC BALLAST AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (3) F032/T8/3500K MANUFACTURER: WILLIAMS #2-4-332-FAI225-EM1-EB3-2T1		X1 10	EDGE LIT EXIT SIGN, GREEN LETTERS AND EMERGENCY BATTERY PACK, PROVIDE PAGES AND ARROWS AS INDICATED ON PLANS. VOLTAGE: 277/120V LAMP: INCLUDED WITH FIXTURE MANUFACTURER: INFINITY #EXIT-G-EM-U4T	
F1E 80	2'X4' LAY-IN FLUORESCENT TROFFER, 2 LAMP, ACRYLIC LENS AND ELECTRONIC BALLAST AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #50G-824-232-A1225-F0325-F348-EM1400-EB2-1N1V		F10 80	4' 2 LAMP FLUORESCENT SURFACE MOUNT WITH ELECTRONIC BALLAST. VOLTAGE: 120V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #16-4-232-ALUM-EB2-120		Z1 30	SELF CONTAINED 270 FLUORESCENT EMERGENCY FIXTURE. VOLTAGE: 277/120V LAMP: (1) 270W FL MANUFACTURER: ISOLITE #LW-27-SE-120-A7	
F2 80	1'X4' FLUORESCENT WRAP AROUND SURFACE MOUNT, 2 LAMP, ACRYLIC LENS AND ELECTRONIC BALLAST. VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #11-4-232-A-EBLH2-1N1V		F10E 80	4' 2 LAMP FLUORESCENT SURFACE MOUNT WITH ELECTRONIC BALLAST AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 120V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #16-4-232-ALUM-EB2-120-EM1400			VOLTAGE: . LAMP: . MANUFACTURER: .	
F2E 80	1'X4' FLUORESCENT WRAP AROUND SURFACE MOUNT, 2 LAMP, ACRYLIC LENS AND ELECTRONIC BALLAST AND EMERGENCY BATTERY BACK-UP (1400 LUMENS). VOLTAGE: 277V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #11-4-232-A-EBLH2-1N1V-EM1400		F11 80	4' 2 LAMP FLUORESCENT SURFACE MOUNT WITH ELECTRONIC BALLAST. UL LISTED FOR WET LOCATION. VOLTAGE: 120V LAMP: (2) F032/T8/3500K MANUFACTURER: WILLIAMS #32-4-232-EB2-120			VOLTAGE: . LAMP: . MANUFACTURER: .	



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**CITY OF LAS VEGAS  
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 LIGHT FIXTURE SCHEDULE**

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 PROFESSIONAL ENGINEER STATE OF NEVADA  
 NO. 01073  
 JAN 31 2010

**RECORD DRAWINGS**  
 01-31-2010

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