

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	RECORD DRAWING DATE: JANUARY 31, 2010
E0-00	SYMBOL LIST, SPECIFICATIONS, AND DRAWING INDEX	
E0-01	LIGHT FIXTURE SCHEDULE	
E0-02	LIGHTING COMPLIANCE FORMS	
E0-03A	SCHEDULES AND NOTES	
E0-03B	SINGLE LINE DIAGRAM	
E0-03C	SINGLE LINE DIAGRAMS	
E0-04	PANEL SCHEDULES	
E0-05	PANEL SCHEDULES	
E0-06	PANEL SCHEDULES	
E0-10	LIGHT POLE STANDARDS	
ED1-0	ELECTRICAL DEMOLITION SITE PLAN	
E1-00	OVERALL ELECTRICAL SITE PLAN	
E1-01	PARTIAL ELECTRICAL SITE PLAN	
E1-02	PARTIAL ELECTRICAL SITE PLAN	
E1-03	PARTIAL ELECTRICAL SITE PLAN	
E1-04	PARTIAL ELECTRICAL SITE PLAN	
E3-01	ENLARGED ELECTRICAL SERVICE YARD AND COVERED PICNIC AREAS	
E3-02	ENLARGED BAITING CAGE ELECTRICAL PLAN	
AE-1	ADMINISTRATION BUILDING POWER AND SIGNAL PLAN	
AE-2	ADMINISTRATION BUILDING LIGHTING PLAN	
ME-1	MAINTENANCE BUILDING POWER AND SIGNAL PLAN	
ME-2	MAINTENANCE BUILDING LIGHTING PLAN	
MPE-1	MULTIPURPOSE BUILDING POWER AND SIGNAL PLAN	
MPE-2	MULTIPURPOSE BUILDING LIGHTING PLAN	
RCE-1	RESTROOM-CONCESSION BUILDING POWER AND SIGNAL PLAN	
RCE-2	RESTROOM-CONCESSION BUILDING LIGHTING PLAN	
SRE-1	STADIUM CLUB POWER AND SIGNAL PLAN	
SRE-2	STADIUM CLUB LIGHTING PLAN	
EP0-4	STADIUM CLUB KITCHEN POWER PLAN	
TOTAL		29

SPECIFICATIONS

- DEFINITION:** THE WORD "PROVIDE" MEANS FURNISH, INSTALL, FEED AND CONNECT WITH ALL ACCESSORIES AND ANCILLARY EQUIPMENT FOR A COMPLETE AND OPERABLE INSTALLATION.
- CODES:** ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL ADOPTED APPLICABLE CODES AND ORDINANCES.
- COMPLETE INSTALLATION:** PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC., NECESSARY TO ACCOMPLISH A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- GROUNDING:** GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH ARTICLE 250 OF THE NEC. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUIT RACEWAYS. WHERE ISOLATED GROUNDS ARE INDICATED, PROVIDE INSTALLED CONDUCTOR.
- CIRCUITING:** ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. ENT WITH STEEL INSULATED THROAT SET SCREW FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM 24". UNARMED RIGID ELBOWS AND RISERS SHOULD BE USED FOR ALL THROUGH-ROOF TRANSITIONS AND SUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. METAL CLOAD CABLE (TYPE MC) MAY BE USED ONLY WITH THE SPECIFIC APPROVAL OF THE ENGINEER. TYPE ENT RACEWAY IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHT FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE FULL GORD IF OTHERWISE EMPTY.
- WIRING:** WIRE SHALL BE COPPER UNLESS OTHERWISE NOTED, STRANDED IN SIZES 10 AWG AND LARGER. WHERE ALUMINUM IS INDICATED, WIRE SHALL BE COMPACTED STRAND TYPE WITH JOINT COMPOUND AT TERMINATIONS. INSULATION SHALL BE TYPE THIN THIN OR THIN (XHHW FOR ALUMINUM). ALUMINUM CONDUCTORS SHALL NOT BE USED IN SIZES SMALLER THAN #10 (100% EQUIPMENT FEEDERS) AND WHEN USED SHALL BE TERMINATED IN INSULATED COMPRESSION-TYPE CUAL FITTINGS (MAC-ADAPT OR EQUAL).
- EXISTING CONDITIONS:** CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING AND PROPOSED CONDITIONS WHICH MAY AFFECT THE COURSE OF HIS WORK. CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND UNACCEPTABLE CONDITIONS TO ENGINEER PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- PERMITS:** OBTAIN AND PAY FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES REQUIRED FOR THIS PROJECT.
- UTILITY SERVICES:** PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION RACEWAY, STRUCTURAL GROUNDING, ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM A.I.C. RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID. (UTILITY SERVICE AND LINE EXTENSION CHARGES PAID BY OTHERS).
- TEMPORARY CONSTRUCTION POWER:** PROVIDE TEMPORARY ELECTRICAL POWER DISTRIBUTION AND LIGHTING AS REQUIRED FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT IN COMPLIANCE WITH ALL NEC AND OSHA REQUIREMENTS. (ENERGY COSTS BY OTHERS).
- FIRE STOPPING:** ALL PENETRATED FIRE RATED SURFACES SHALL BE FIRE SEALED WITH APPROVED LISTED SEALANTS AS LISTED WITHIN ARCHITECTURAL SPECIFICATIONS. DO NOT EXCEED MAXIMUM ALLOWABLE SURFACE PENETRATIONS DEPENDENT ON RATING OF SURFACE. REFER TO ARCHITECTURAL DRAWINGS FOR DETERMINATION OF PENETRATION LOCATIONS THROUGH FIRE RATED ASSEMBLIES.
- FUSES AND CIRCUIT BREAKERS:** FUSES AND CIRCUIT BREAKERS SHALL BE SIZED PER ACTUAL RESPECTIVE APPLICATION (A. MOTOR CIRCUIT PROTECTOR, GROUND FAULT INTERRUPTER, ARC FAULT CIRCUIT INTERRUPTER, ETC.). FUSES SHALL BE DUAL ELEMENT CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. PROVIDE LOCKABLE SPARE FUSE CABINET WITH THREE (3) SPARE FUSES OF EACH SIZE USED.
- EQUIPMENT STANDARDS:** ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). LIGHTING FIXTURES SHALL HAVE ELECTRONIC BALLASTS AND ACRYLIC LENSES. SERVICE EQUIPMENT SHALL BE FACTORY ASSEMBLED. COMMERCIAL GRADE CONFORMS PER SERVING UTILITIES. PANELBOARDS SHALL HAVE BOLT-ON CIRCUIT BREAKERS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, UNLESS OTHERWISE NOTED. RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS.
- GUARANTEE:** THE COMPLETE ELECTRICAL SYSTEM AND ALL PORTIONS THEREOF SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. LIGHT BULBS ARE EXEMPT FROM THIS GUARANTEE, BUT SHALL BE NEW AND UNUSED AT TIME OF FINAL ACCEPTANCE.
- SUBMITTALS:** SUBMIT EIGHT COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, SWITCHGEAR, PANELS, MOTOR CONTROLS, WIRING DEVICES, ETC. PROPOSED FOR THIS PROJECT. PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER.
- LOCATIONS:** INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFTLABELS/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER AT NO ADDED COST.
- CONNECTED EQUIPMENT:** IDENTIFY ALL EQUIPMENT, SWITCHBOARD CIRCUITS AND ELECTRICALLY CONNECTED EQUIPMENT WITH ENGRAVED NAMEPLATES. NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. PANEL DIRECTORIES SHALL BE TYPED.
- PANEL BOARDS:** PANELS SHALL HAVE FLUSH MONO-FLAT TRIP, PIANO HINGED DOORS AND COVER (DOOR IN-CLOSURE WITH LOCKABLE MASTER KEYED FLUSH CATCHES AND BOLT-ON CIRCUIT BREAKERS. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE. (1) 1" CONDUIT FOR EACH (4) SPARE/SPACE CIRCUITS.
- TAPERED ROOF:** ALL EQUIPMENT AND CIRCUITS ACCESSIBLE BY THE PUBLIC SHALL BE DEMONSTRATED TO BE TAMPERPROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE.
- SUPPORTS AND HANGERS:** SUPPORT AND ALIGN ALL RACEWAYS, CABINETS, BOXES, BACKBOXES, FIXTURES AND EQUIPMENT FROM STRUCTURE. SECURE ALL SUPPORTING METHODS BY MEANS OF TOGGLE BOLTS IN HOLLOW MASONRY, EXPANSION BOLTS IN SOLID MASONRY, CONCRETE PRESET INSERTS OR EXPANSION BOLTS IN CONCRETE. MACHINE SCREWS OR BOLTS IN METAL, AND WOOD SCREWS IN WOOD CONSTRUCTION. ALL SUPPORTING SYSTEMS AND COMPONENTS SHALL BE RATED FOR FIVE (5) TIMES THE ACTUAL LOAD.
- ELECTRICAL ROOM CODE CORRELATION:** DUE TO THE DIAGNOSTIC NATURE OF THE DESIGN DOCUMENTS (ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPROKLER, ETC.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL OTHER SUBCONTRACTORS AT THE START OF THIS PROJECT TO IDENTIFY AND VERIFY THAT NO FOREIGN SYSTEMS OR EQUIPMENT PASS THROUGH THE DESIGNATED ELECTRIC ROOMS AND THAT A MINIMUM OF 1'-0" IS PROVIDED AS CLEAR HEADROOM ALONG ACCESS PATHS TO ALL ELECTRIC ROOMS. ANY REROUTING OR RELOCATION OF SYSTEMS THAT A SUBCONTRACTOR FEELS WILL COMPROMISE THE INITIAL DESIGN INTENT SHALL BE DESCRIBED IN WRITING AND REFERRED TO THE DESIGN ENGINEER FOR FURTHER REVIEW. ALL PIPING TO HVAC UNITS THAT COOL ELECTRIC ROOMS SHALL BE LOCATED ABOVE THE ENTRY DOORS WHERE POSSIBLE. THE SPROKLER PIPING TO PROVIDE PROTECTION FOR THE ELECTRIC ROOM IS PREFERRED TO ENTER THE ROOM ABOVE THE ENTRY DOOR AND RUN DOWN THE ASBLE SPACES OF THE ROOM. ALL INSTALLATIONS SHALL BE FULLY COORDINATED AMONG ALL TRADES.
- ELECTRICALLY OPERATED EQUIPMENT - FEEDERS AND OVERCURRENT DEVICES COORDINATION:** FEEDERS AND OVERCURRENT DEVICES (INCLUDING STARTERS, DISCONNECTS, ETC.) HAVE BEEN DESIGNED BASED ON INFORMATION PROVIDED BY THE RESPONSIBLE CONSULTANT AND/OR DESIGNATED SUPPLIER. PRIOR TO ROUGH-IN, COORDINATE WITH THE APPROPRIATE TRADE AND/OR INSTALLER TO DETERMINE THAT THE ACTUAL NAMEPLATE ELECTRICAL REQUIREMENTS MATCH THIS DESIGN. ALL CORT REDUCTION VALVE ENGINEERING SUBSTITUTION PROBLEMS, ETC. CONCERNING ELECTRICALLY POWERED EQUIPMENT AND SYSTEMS WHICH IMPACT THE ELECTRICAL SYSTEM OF THIS PROJECT SHALL INCLUDE ALL ELECTRICAL COSTS AND/OR CREDITS ASSOCIATED WITH SUCH PROBLEMS AND SHALL BE COORDINATED AMONGST THE GENERAL CONTRACTOR AND THE SEVERAL AFFECTED TRADES PRIOR TO SUBMISSION FOR REVIEW.
- COORDINATION:** THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION AND COOPERATION WITH OWNER ARCHITECT, OTHER TRADES, VENDORS AND SPECIALTY CONTRACTORS. THIS CONTRACTOR SHALL OBTAIN AND STUDY SHOP DRAWINGS OF ALL ELECTRICALLY CONNECTED EQUIPMENT AND SHALL ADJUST POINTS OF CONNECTION, LOCATIONS AND MOUNTING HEIGHTS AS NECESSARY PRIOR TO ROUGH-IN.
- BEHINDS:** THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN AND INTERIOR DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 16 RESPONSIBILITIES. THIS CONTRACTOR SHALL NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA.
- FIRE ALARM:** THE CONTRACTOR SHALL PROVIDE A COMPLETE FIRE ALARM SYSTEM IN FULL ACCORDANCE WITH LOCAL, STATE AND ADA REQUIREMENTS. THESE DOCUMENTS DO NOT INDICATE DEVICES, OUTLETS, CONNECTIONS AND CIRCUITRY NECESSARY FOR A COMPLETE FIRE ALARM SYSTEM. OBTAIN FIRE MARSHAL APPROVED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF ROUGH-IN. PROVIDE COMPLETE SYSTEM TESTING UPON COMPLETION OF INSTALLATION AND PRIOR TO FIELD ACCEPTANCE BY OWNER.
- ADDITIONAL SYSTEMS AND EQUIPMENT CONNECTIONS:** IN ADDITION TO EQUIPMENT POWER FEEDERS AND CONNECTIONS INDICATED ON THE ELECTRICAL DRAWINGS, PROVIDE BIDDY CONTROL POWER CONNECTIONS TO SMOKE/FIRE DAMPERS, VAV BOXES, TEMPERATURE CONTROL AND FIRE ALARM PANELS, DOOR HOLDING/LATCHING DEVICES, ETC. AS INDICATED IN THE PROJECT DRAWINGS AND SPECIFICATIONS AS WELL AS ALL DESIGN-BUILD SYSTEM DRAWINGS.

ITEM	POWER SOURCE	NO. PER SOURCE	PROVIDE SHOCK DETECTORS
EMERGENCY	EMERGENCY	10	NO
VAV TERMINAL (NO FAN)	NORMAL (VERIFY)	10	NO
TEMPERATURE CONTROL PANEL	EMERGENCY (VERIFY)	1	NO
FIRE ALARM PANEL	EMERGENCY	1	NO
DOOR HOLDING/LATCHING DEVICES	EMERGENCY	10	NO
- COMMUNICATION SYSTEMS:** THE ELECTRICAL CONTRACTOR SHALL PROVIDE OUTLETS AND RACEWAYS FOR COMMUNICATION SYSTEMS AS INDICATED HEREIN, INCLUDING TELEPHONE, DATA AND POINT-OF-SALE. CABBING AND DEVICES SHALL BE INSTALLED AND TERMINATED BY THIS CONTRACTOR, INCLUDING COMMUNICATION SYSTEMS (I.E. SOUND, SECURITY, AUDIO/VISUAL, CCTV, MATH, ETC.).
- SPECIFICATIONS BOOK:** THE SPECIFICATIONS CONTAIN SIGNIFICANT INFORMATION, CONDITIONS, AND PROCEDURES WHICH MAY HAVE A SUBSTANTIAL IMPACT ON CONTRACTOR'S COSTS. DO NOT SUBMIT A BID ON THIS PROJECT UNLESS THE SPECIFICATIONS HAVE BEEN THOROUGHLY REVIEWED.

DESIGN BUILD FIRE ALARM SYSTEM

THE FIRE ALARM SYSTEM SHALL BE A COMPLETE NEW FIRE ALARM DETECTION AND ALARM SYSTEM WITH CLASS B CIRCUITING AS REQUIRED BY LOCAL FIRE MARSHAL. CONTROL PANEL SHALL INCLUDE INTEGRAL STANDBY BATTERIES, CHARGER, AND MUNICIPAL THE MODULE OR AGENCY APPROVED AUTO-DIALER CONNECTED TO THE TELEPHONE SYSTEM (CONNECTION AND MONITORING CHARGES BY OWNER). SUBMIT PROPOSED DESIGN TO FIRE MARSHAL FOR APPROVAL PRIOR TO ROUGH-IN. AFTER PLANS HAVE BEEN APPROVED BY THE FIRE MARSHAL, PROVIDE (1) SET OF SHARPEL DRAWINGS ALONG WITH AN APPROVED EQUIPMENT SUBMITTAL TO THE ELECTRICAL ENGINEER FOR THEIR RECORD. ALL CONNECTIONS TO SYSTEM SHALL BE PERFORMED BY FACTORY-CERTIFIED TECHNICIAN AND SHALL BE ACCEPTED BY OWNER'S SYSTEM MONITORING AGENCY. THE CONTRACTOR SHALL PROVIDE A COMPLETE FIRE ALARM SYSTEM INCLUDING BUT NOT LIMITED TO INITIATING DEVICES, DUCT DETECTORS, ADA HORN/SPEAKERS, ETC. AND BE IN FULL COMPLIANCE WITH ALL LOCAL, STATE, AND ADA REQUIREMENTS.

ELECTRICAL SYMBOL LIST

NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.

	FLUORESCENT FIXTURE - RECESSED, LAY-IN		SWITCHGEAR
	FLUORESCENT FIXTURE - RECESSED, FLANGED		PANELBOARD - SURFACE MOUNTED
	FLUORESCENT FIXTURE - SURFACE		PANELBOARD - FLUSH MOUNTED
	FLUORESCENT FIXTURE - SUSPENDED		EXISTING / RELOCATED PANELBOARD - SURFACE MOUNTED
	FLUORESCENT FIXTURE - OPEN STRIP WITH WIRE GUARD		EXISTING / RELOCATED PANELBOARD - FLUSH MOUNTED
	INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - SURFACE OR RECESSED, PER FIXTURE SCHEDULE		TRANSFORMER
	INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - WALL BRACKET		FIRE ALARM EQUIPMENT
	INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - WALL WASH		SHUNT TRIP STATION
	LOW VOLTAGE INCANDESCENT FIXTURE		CONTROL STATION AT 48" TO TOP UCN (PER ADA)
	CHANDELIER OR FAN (PROVIDE 3X STRUCTURAL BACKING) UNIVERSAL MOUNTING UNSWITCHED		RELAY
	SPOTLIGHT - J-BOX OR TRACK MOUNTED - TRACK LENGTH AS INDICATED		CONTACTOR WITH INTEGRAL HOA SELECTOR
	BOLLARD		MAGNETIC STARTER, SIZE 1 UCN
	POLE OR POST - ARM OR TOP MOUNTED CUT-OFF LUMINAIRE		DISCONNECT SWITCH, 30/3 UCN (F-PUSABLE (FPMU) NON-USABLE)
	TURN-LAMP BATTERY PACK - UNSWITCHED, WALL MOUNTED (LOCATE 12" BELOW CEILING UCN)		COMBINATION STARTER 4 DISCONNECT, SIZE 1 UCN (H-RATED SWITCH AND POWER RELAY-201 (UCU)
	TURN-LAMP BATTERY PACK - UNSWITCHED, CEILING MOUNTED, FLUSH OR SURFACE PER FIXTURE SCHEDULE		FULL-RATE - SIZE AND LOCATION AS REQUIRED JUNCTION BOX - SIZE PER NEC REQUIREMENTS
	EXIT LIGHT - FACES AND ARROWS AS INDICATED, UNIVERSAL MOUNTING UNSWITCHED		MECHANICAL EQUIPMENT DESIGNATION
	EXIT LIGHT - COMBINATION SINGLE FACE, ARROWS AS INDICATED WITH TURN-LAMP BATTERY PACK, UNIVERSAL MOUNTING UNSWITCHED		MOTOR OUTLET (NUMBER + HORSEPOWER)
	EXIT LIGHT - LOW LEVEL, 6" AFF. TO BOTTOM, 4" MAX. OF DOOR FRAME		EXHAUST FAN OUTLET (FRACTIONAL HORSEPOWER)
	FIXTURE, EQUIPMENT ON EMERGENCY (X) OR NIGHT LIGHT (NL) CIRCUIT		LIGHTING FIXTURE DESIGNATION (SEE FIXTURE SCHEDULE)
	SWITCHES AT 48" TO TOP UCN (PER ADA)		EQUIPMENT LOAD SUMMARY (EXPRESSED IN KW)
	SWITCH - SINGLE POLE		SHEET NOTE DESIGNATION
	SWITCH - DOUBLE POLE		FEEDER DESIGNATION (SEE FEEDER SCHEDULE)
	SWITCH - THREE WAY		CIRCUITS IN WALL OR ABOVE CEILING
	SWITCH - EMERGENCY		CIRCUITS IN FLOOR OR BELOW GRADE
	SWITCH - PILOT TOGGLE (CONFIRM LIGHTED POSITION)		TICS - NO. OF 12 WIRES IF MORE THAN TWO - ISOLATED GROUND WIRE
	SWITCH - KEYPAD OPERATED		HORN/RING (4) 12, 3/4" TO PANEL A - CIR 133
	SWITCH - SLIDER TYPE ELECTRONIC DIMMER (WATTAGE RATING AS REQUIRED)		MANUAL MOTOR STARTER - POLES AND HEATERS AS REQUIRED
	SWITCH - MOMENTARY CONTACT, 8PDT CENTER OFF UCN		PHOTOELECTRIC SWITCH - 9000 VA UCN
	MANUAL MOTOR STARTER - POLES AND HEATERS AS REQUIRED		SIGNAGE OUTLET CONNECTION
	PHOTOELECTRIC SWITCH - 9000 VA UCN		DEVICES AT 48" TO CENTER LINE (PER ADA)
	SIGNAGE OUTLET CONNECTION		DEVICES MOUNTED IN MULTIPLE UNDER COTTON COVER MAXIMUM HEIGHT ON WALLS - 48" TO TOP UCN (PER ADA)
	DEVICES AT 48" TO CENTER LINE (PER ADA)		DEVICES MOUNTED IN OR ABOVE BACKSLASH MAXIMUM HEIGHT ON WALLS - 48" TO TOP UCN (PER ADA)
	DEVICES MOUNTED IN MULTIPLE UNDER COTTON COVER MAXIMUM HEIGHT ON WALLS - 48" TO TOP UCN (PER ADA)		DEVICES IN MULTI-COMPARTMENT FLUSH FLOOR MOUNTED UCN
	DEVICES IN MULTI-COMPARTMENT FLUSH FLOOR MOUNTED UCN		RECEPTACLE - DUPLEX
	RECEPTACLE - DUPLEX		RECEPTACLE - DUPLEX - HALF SWITCHED (TOP HALF)
	RECEPTACLE - DUPLEX - INTEGRAL GFCI CIRCUITRY		RECEPTACLE - DUPLEX - ISOLATED GROUND (ORANGE FACE) NEMA 520R/40
	RECEPTACLE - DOUBLE DUPLEX		RECEPTACLE - DOUBLE DUPLEX
	RECEPTACLE - SPECIAL TYPE (SEE ADDITIONAL NOTES)		PLUG MOLD SURFACE RACEWAY SYSTEM (2-CIRCUIT WITH OUTLETS 18" O.C. UCN) MOUNTED ABOVE BACKSLASH UCN
	WIREFOLD SURFACE RACEWAY		UNSWITCHED SURFACE RECEPTACLE
	TELEPHONE POLE		SMOKE DETECTOR - LOCAL ONLY, 20V, W/INTEGRAL BATTERY AND ALARM HORN, WALL MOUNT AT 12" BELOW CEILING
	SMOKE DETECTOR - LOCAL ONLY, 20V, W/INTEGRAL BATTERY AND ALARM HORN, WALL MOUNT AT 12" BELOW CEILING		OUTLET - CLOCK
	OUTLET - CLOCK		OUTLET - TELEPHONE
	OUTLET - TELEPHONE		OUTLET - VOICE / DATA
	OUTLET - DATA		OUTLET - TELEVISION
	OUTLET - INTERCOM		OUTLET - MICROPHONE
	OUTLET - MICROPHONE		OUTLET - VOLUME CONTROL (48" TO TOP UCN)
	OUTLET - VOLUME CONTROL (48" TO TOP UCN)		OUTLET - SPEAKER 8" COAXIAL W/ BACK BOX AND GRILLE
	OUTLET - SPEAKER 8" COAXIAL W/ BACK BOX AND GRILLE		OUTLET - THERMOSTAT (PER MECHANICAL DRAWINGS)
	OUTLET - THERMOSTAT (PER MECHANICAL DRAWINGS)		TV / SECURITY CAMERA - FIXED (MOUNTING PER PLANS)
	TV / SECURITY CAMERA - FIXED (MOUNTING PER PLANS)		TV / SECURITY CAMERA - PTZ (MOUNTING PER PLANS)
	TV / SECURITY CAMERA - PTZ (MOUNTING PER PLANS)		SECURITY SYSTEM KEY PAD, WALL MOUNT AT 48"
	SECURITY SYSTEM KEY PAD, WALL MOUNT AT 48"		SECURITY SYSTEM SIREN, WALL MOUNT AT 48"
	SECURITY SYSTEM SIREN, WALL MOUNT AT 48"		SECURITY SYSTEM DOOR CONTACT

RECORD DRAWING

THIS MODIFIED OR RECORD DRAWING HAS BEEN PREPARED, IN WHOLE OR IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY THE CONTRACTOR OR OTHERS INVOLVED WITH THE PROJECT. MSA ENGINEERING CONSULTANTS IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. CAREFUL EXAMINATION OF ACTUAL EXISTING CONDITIONS SHOULD BE UNDERTAKEN PRIOR TO EXCAVATION, CUTTING, MODIFICATION, OR CONNECTION OF SUBSEQUENT CONSTRUCTION.

MSA ENGINEERING CONSULTANTS
3015 E. WILSON LANE
LAS VEGAS, NV 89123
TEL: (702) 886-1100
F: (702) 886-1153
email: msa@msa.com

Dekker Perich Sabatini
6880 Bermuda Road, Ste. 100
Las Vegas, Nevada 89119
702.438.1006
fax 438.1050
info@psdesign.org

DAVID J. MELROY III
No. 010573
ELECTRICAL
JAN 31 2010

CITY OF LAS VEGAS
FREEDOM PARK RENOVATION
850 NORTH MOJAVE, LAS VEGAS, NEVADA 89101
SYMBOL LIST, SPECIFICATIONS, AND DRAWING INDEX

David J. Melroy III
Russ Manger
Roche Constructors, Inc.

RECORD DRAWINGS
01-31-2010

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 384-8844
TDD: (702) 384-9108

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