MARTIN HARRIS CONSTRUCTION

REQUEST FOR INFORMATION

No. 292

TITLE: Switch Elevations Standard

PROJECT: Wyndham -Desert Blue

TO: Attn: Mark Danley
KGA Architecture
9075 W. Diablo Dr
3rd Floor
Las Vegas, NV 89148
Phone: 702-367-6900 Fax: 702-367-2043

DATE: 6/7/2013
PROJECT NO:1-07-0028
STARTED:
COMPLETED:
REQUIRED: 6/14/2013
COST IMPACT: Unknown
SCHEDULE IMPACT: Unknown

REQUEST:

Mojave Electric RFI 016

Reference draing E0.01 and specification sectionc 16140 (3.1.D) (10.B)

Specification 16140 (3.1)(D)(10)(b) states that switches are to be installed at 44" AFF measured to the bottom. Drawing E0.01 Symbol list calls for switches to be installed at 48". Please confirm accurate installation height.

ANSWER:

Answer By: Date:

Install at 48" to center.
Mark Mohning - KGA
6-7-13

Requested By: Martin Harris Construction Co **Date:** 6/7/2013

Signed: Robert Marentette

conductors, and cables.

3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
4. Install wiring devices after all wall preparation, including painting, is complete.

C. Conductors:
1. Do not strip insulation from conductors until just before they are spliced or terminated on devices.
2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.

D. Device Installation:
1. Replace all devices that have been in temporary use during construction or that show signs that they were installed before building finishing operations were complete.
2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
4. Connect devices to branch circuits using pigtails that are not less than 6 inches (152 mm) in length.
5. When there is a choice, use side wiring with binding-head screw solid conductor tightly clockwise, 2/3 to 3/4 of the way around terminal screw.
6. Use a torque screwdriver when a torque is recommended or required by the manufacturer.
7. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
8. Tighten unused terminal screws on the device.
9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device mounting screws in yokes, allowing metal-to-metal contact.
10. Mounting heights shall be as follows unless noted:
    a. Receptacles: 18" A.F.F. measured to bottom.
    b. Switches: 44" A.F.F. measured to bottom.

ME RFI 00016

E. Receptacle Orientation:
1. Install ground pin of vertically mounted receptacles down, and on horizontally mounted receptacles to the left.

F. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.

G. Dimmers:
1. Install dimmers within terms of their listing.
2. Verify that dimmers used for fan speed control are listed for that application.
3. Install unshared neutral conductors on line and load side of dimmers according to manufacturers' device listing conditions in the written instructions.

H. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. FINAL CONNECTIONS & ROUGH–IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3. CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC., AS REQUIRED BY THE TEMPERATURE CONTROL CONTRACTOR. STARTERS SHALL CONTAIN 120V CONTROL TRANSFORMER, PILOT LIGHT, AND PUSHBUTTONS OR SELECTOR SWITCH AS REQUIRED, IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED. REFER TO DIV. 15 DRAWINGS AND TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
4. PROVIDE SHOP DRAWING SUBMITTAL WITH 1/4" SCALE LAYOUT DRAWINGS OF ROOMS WITH ELECTRICAL EQUIPMENT AND/OR TRANSFORMERS. LAYOUTS SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND EQUIPMENT SHALL BE DRAWN TO SCALE. ALTHOUGH MORE THAN ONE EQUIPMENT MANUFACTURER IS LISTED FOR USE ON THIS PROJECT, IF THAT MANUFACTURER CANNOT MEET THE PHYSICAL CONSTRAINTS OF THIS PROJECT THEIR EQUIPMENT IN TOTAL IS NOT ACCEPTABLE. DRAWINGS SHALL INDICATE BY DIMENSION THAT CLEARANCE REQUIRED BY CODE ARE PROVIDED.
5. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT. STUB CONDUIT OUT 6" INTO AN ACCESSIBLE AREA. CAP OPEN ENDS NOT TERMINATED IN A JUNCTION BOX.
6. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY.
7. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.
8. PROPOSED SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUAL" OR "APPROVED EQUAL" LISTING SHALL BE SUBMITTED TO ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID.
9. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
10. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE OF NEVADA AND NATIONAL CODES AND ORDINANCES.
11. PROVIDE PERMITS AND INSPECTIONS REQUIRED.
12. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
13. PROVIDE RECORD DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
14. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH–IN.
15. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
16. FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES, CABLE, PROGRAMMING AND TESTING AS DIRECTED BY EQUIPMENT MANUFACTURER AND FIRE DEPARTMENT FOR A CODE COMPLIANT FIRE ALARM SYSTEM. MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SINGLE LINE OF SYSTEM WITH SHOP DRAWINGS. THIS SINGLE LINE DIAGRAM SHALL SHOW DEVICES, CONDUIT, WIRE AND CABLE SIZES, EQUIPMENT TO BE USED AND SHALL BE STAMPED AND SIGNED BY LOCAL FIRE DEPARTMENT. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.
17. GENERATOR SYSTEM SHALL BE COMPLETE AND OPERABLE AND SHALL INCLUDE REQUIRED ACCESSORIES, FUEL TANKS, PIPING, MUFFLER, BLOCK HEATER, BATTERY CHARGER ETC.
18. WIRE SHALL BE COPPER, 75°C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER, MINIMUM 90°C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. 600 VOLT STABILOY 8030 SERIES ALLOY ALUMINUM WIRE AND CABLE (OR EQUAL) IN SIZES 1/0 AND LARGER MAY BE SUBSTITUTED FOR COPPER ON SERVICES AND FEEDERS IF AMPACITY IS EQUAL TO OR GREATER THAN COPPER AND VOLTAGE DROP IS EQUAL TO OR LESS THAN COPPER.
19. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.
20. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, BOUND IN THREE–RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.
21. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
22. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
23. WIRING DEVICES SHALL BE SPECIFICATION GRADE AND RATED AT 20 AMPERES. THE DEVICE PLATES SHALL BE LEXAN OR NYLON (IN KITCHENS WITH STAINLESS STEEL COUNTERS DEVICE PLATES SHALL BE STAINLESS STEEL). THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT.
24. PULLBOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER–PROOF SCREWS.
25. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH ARC–FAULT OR GROUND FAULT CIRCUIT.
26. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25'–0" OF ALL MECHANICAL OR MOTORIZED EQUIPMENT.
27. WHERE MECHANICAL EQUIPMENT IS INSTALLED ABOVE A GYPBOARD CEILING REQUIRING ACCESS THROUGH AN ACCESS PANEL, PROVIDE A RECEPTACLE, SWITCH AND LIGHT IN THE CEILING SPACE AT THE ACCESS LOCATION.
28. WIRING DEVICES IN DWELLING UNITS AND GUESTROOMS SHALL BE PROVIDED IN SUFFICIENT QUANTITY TO MEET THE REQUIREMENTS OF NEC 210. DEVICE LOCATIONS SHALL ALSO COMPLY WITH NEC 210.
29. PROVIDE HANDLE TIES OR MULTIPOLE CIRCUIT BREAKERS FOR SIMULTANEOUS OPERATION OF ALL MUTIWIRE BRANCH CIRCUITS. (25)
30. RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.
31. RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.
32. FIXTURES RECESSED IN "T–BAR" CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM, WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY–FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE U.L. APPROVED ASSEMBLY.
33. SEE DIVISION 15 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED. PROVIDE FUSES OR HACR–TYPE CIRCUIT BREAKERS FOR ALL AIR CONDITIONING EQUIPMENT SIZED IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
34. SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, ETC. SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D' OR CUTLER–HAMMER. BOLT FREE STANDING EQUIPMENT TO 4" HIGH CONCRETE HOUSEKEEPING PADS.
35. DRY TYPE TRANSFORMERS SHALL BE 80°C RISE WITH 220°C INSULATION. MOUNT ON RUBBER–IN–SHEAR ISOLATORS. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SIEMENS, CUTLER–HAMMER OR SORGEL (SQ.D).
36. PROVIDE ENGRAVED NAMEPLATES ON SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
37. PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
38. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS 'R' FUSES ONLY AND REJECT ALL OTHERS. INSTALL DISCONNECT SWITCH ON TWO 24" LONG UNISTRUT CHANNELS DRILLED AND BOLTED TO HVAC UNIT FRAME WHERE POSSIBLE (COORDINATE LOCATION W/ HVAC MANUFACTURER TO AVOID WARRANTY INFRACTIONS). SILICONE SEAL ALL HOLES IN UNIT.
39. PROVIDE DYMO–TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
40. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.
41. CIRCUIT BREAKERS SHALL BE BOLT–ON TYPE AND FUSES SHALL BE BUSSMANN.
42. PROVIDE 4" HIGH CONCRETE EQUIPMENT PADS BENEATH SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC.
43. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB–ON–GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUAL PROTECTION. EMT FITTINGS SHALL BE STEEL. CONNECTORS SHALL BE INSULATED THROAT TYPE.
44. NON–METALLIC AND FLEXIBLE METAL CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
45. FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
46. CONDUITS PENETRATING THRU ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.
47. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL–TITE FLEX (3'–0" MAXIMUM LENGTH) AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
48. WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4"C SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS.
49. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
50. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C.
51. DEVICES INSTALLED IN FIRE RATED WALLS SHALL HAVE HEVI–DUTY NELSON FSP PUDDY, PADS INSTALLED TO MAINTAIN FIRE INTEGRITY–ONE PAD PER HOUR OF RATING. CONDUIT PENETRATING FIRE RATED WALLS SHOULD COMPLY WITH THE REQUIREMENTS OF UL SYSTEM 147A FOR SINGLE CONDUITS OR UL SYSTEM 322 FOR MULTIPLE CONDUITS.
52. RECEPTACLES INSTALLED OUTSIDE, ON THE BUILDING EXTERIOR OR ROOF, IN KITCHENS OR WITHIN 6 FEET HORIZONTALLY FROM A SINK OR DRINKING FOUNTAIN UNLESS LOCATED BELOW A COUNTER OR OTHERWISE PROTECTED SHALL BE GFCI TYPE OR PROTECTED BY GFI CIRCUIT BREAKER.
53. DUCT DETECTORS SHALL BE PHOTOELECTRIC TYPE FURNISHED BY DIVISION 16, INSTALLED IN THE SUPPLY AIR DUCTS BY DIVISION 15 AND CONNECTED TO THE FIRE ALARM SYSTEM BY DIVISION 16. DUCT DETECTOR SHALL BE CONNECTED TO SHUT OFF ALL AIR HANDLING UNITS LOCATED WITHIN THE SAME PLENUM. DUCT DETECTORS SHALL NOT BE MOUNTED IN AN ENVIRONMENT WHICH EXCEEDS 122°F. PROVIDE ZERO VELOCITY TYPE DETECTORS WHERE REQUIRED, INSTALLATION SHALL BE COORDINATED WITH DIV. 15 TO MAINTAIN AIRFLOW & ACCESS.
54. LOW LEVEL EXIT SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE SOUTHERN NEVADA AMENDMENTS TO THE IBC. (25)
55. ALL EQUIPMENT SUCH AS SWITCHBOARDS, DISTRIBUTION BOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER. ALL FUSES PROVIDED SHALL BE OF THE SAME MANUFACTURER.
56. COORDINATE THE LOCATION OF LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. UNLESS OTHERWISE VERIFIED IN WRITING THE REFLECTED CEILING PLAN LOCATIONS SHALL GOVERN.
57. COORDINATE THE LOCATION OF ALL WALL MOUNTED EQUIPMENT WITH THE ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS. UNLESS OTHERWISE VERIFIED IN WRITING THE ARCHITECTURAL DRAWINGS SHALL GOVERN.
58. ALL DEVICES INSTALLED IN THE ELEVATOR PIT SHALL BE NEMA 4.
59. BOXES SHALL BE MINIMUM 4" SQUARE WITH REQUIRED EXTENSIONS & PLASTER OR TILE RINGS.

SYMBOL LIST

- FIBER OPTIC LIGHTING
- NEON/COLD CATHODE LIGHTING
- COVE/LOW VOLTAGE LIGHTING
- DECORATIVE LIGHT FIXTURE (OWNER FURNISHED AND CONTRACTOR INSTALLED)
- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE WITH ONE LAMP ON EMERGENCY
- FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
- A — LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE
- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE
- DOWNLIGHT FIXTURE
- DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
- EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS
- STEP LIGHT
- WALL WASH/ACCENT LIGHT
- WALL MOUNTED FIXTURE
- POLE MOUNTED FIXTURE (SINGLE HEAD)
- POLE MOUNTED FIXTURE (TWIN HEAD)
- TRACK LIGHT WITH FIXTURE HEADS
- EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED
- EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED WALL MOUNTED
- DOUBLE FACE EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED
- S — SINGLE POLE SWITCH @ +48" UNLESS NOTED
- S_3 — 3–WAY POLE SWITCH @ +48" UNLESS NOTED
- S_4 — 4–WAY POLE SWITCH @ +48" UNLESS NOTED
- S_P — SWITCH WITH NEON PILOT LIGHT @ +48" UNLESS NOTED
- S_L — BACKLIT SWITCH @ +48" UNLESS NOTED
- S_D — DIMMER SWITCH – SOLID STATE TYPE @ +48" UNLESS NOTED
- S_K — SWITCH – KEY OPERATED
- S_T — THERMAL OVERLOAD SWITCH
- S_M — SWITCH WITH MOTION SENSOR
- S_{2M} — DUAL SWITCH WITH MOTION SENSOR
- M — CEILING MOUNTED MOTION SENSOR
- GFCI RECEPTACLE @ +18" UNLESS NOTED
- ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- SINGLE RECEPTACLE @ +18" UNLESS NOTED
- SPECIAL RECEPTACLE @ +18" UNLESS NOTED
- 100 AMP PIN & SLEEVE RECEPTACLE
- CLOCK RECEPTACLE @ +90" UNLESS NOTED
- FLUSH FLOOR DUPLEX RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE
- 1/2 SWITCHED (BOTTOM HALF) DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- DOUBLE DUPLEX (HALF NORMAL/HALF ISOLATED GRND) @ +18" UNLESS NOTED
- C — RECEPTACLE INSTALLED ABOVE COUNTER
- D — JANUS DISPLAY BOARD RECEPTACLE
- H — RECEPTACLE INSTALLED HORIZONTALLY
- T — TIMECLOCK RECEPTACLE
- CEILING MOUNTED SPECIAL RECEPTACLE
- FLUSH FLOOR SPECIAL RECEPTACLE
- MULTI–OUTLET PLUGSTRIP
- S — FIRE ALARM SPEAKER WITH ADA/ANSI STROBE
- FIRE ALARM SPEAKER – CEILING MOUNTED @ +80" AFF TO BOTTOM OF COVERPLATE.
- FIRE ALARM WITH ADA/ANSI STROBE @ +80" AFF TO BOTTOM OF COVERPLATE.
- SMOKE DETECTOR – PROVIDE ADDITIONAL DETECTORS AS BEAM POCKET CONDITIONS REQUIRE.
- HEAT DETECTOR
- DUCT DETECTOR
- FLAME DETECTOR
- DOOR HOLDER
- FLOW SWITCH
- TAMPER SWITCH
- FIREMAN'S PHONE JACK @ +48" AFF
- ADDRESSABLE SMOKE DETECTOR WITH SOUNDER BASE FOR LOCAL ALARM. (25)
- FIRE ALARM MANUAL P
- FS — JUNCTION BOX AND SWITCH WITH CONNECTION TO FIRE/SMOKE DAMPER. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM AND MECHANICAL CONTROL DIAGRAMS
- V — JUNCTION BOX AND SWITCH WITH CONNECTION TO VARIABLE AIR VOLUME BOX. COORDINATE REQUIREMENTS WITH MECHANICAL CONTROL DIAGRAMS
- JUNCTION BOX
- NON–FUSED DISCONNECT SWITCH – 30A, 3P, UNLESS NOTED OTHERWISE
- FUSED DISCONNECT SWITCH – 30A, 3P WITH 30A FUSES UNLESS NOTED OTHERWISE
- COMPANY SWITCH
- MAGNETIC MOTOR STARTER – FVNR, NEMA SIZE #1 (UNLESS NOTED OTHERWISE) WITH HOA, RED RUN PILOT LIGHT, CONTROL XFMR, SOLID STATE OVERLOADS, (2) NO AND (2) NC CONTACTS
- COMBINATION FUSED SWITCH & STARTER AS NOTED ABOVE
- COMBINATION NON–FUSED SWITCH & STARTER AS NOTED ABOVE
- R — RELAY
- C — CONTACTOR
- P — POWER SUPPLY
- TIMESWITCH
- PHOTOCELL (INSTALL ON ROOF FACING NORTH)
- THERMOSTAT OUTLET @ +44" UNLESS NOTED (25)
- PUSHBUTTON TYPE CONTROL STATION
- DOORBELL – CEILING MOUNTED
- CIRCUIT BREAKER
- FOOD SERVICE EQUIPMENT – SEE FOOD SERVICE DRAWINGS
- PANELBOARD
- MAIN SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
- CONCRETE PULLBOX WITH HEAVY DUTY STEEL TRAFFIC COVER
- T — TRANSFORMER
- +18" — INDICATES MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE
- AFF — INDICATES ABOVE FINISHED FLOOR
- AL — INDICATES ALUMINUM
- ATS — INDICATES AUTOMATIC TRANSFER SWITCH
- C — INDICATES CONDUIT WITH PULL–LINE ONLY
- AFCI — INDICATES ARC FAULT CIRCUIT INTERUPTER CIRCUITS PROTECTED WITH AFCI SHALL BE PROVIDED WITH DEDICATED NEUTRALS
- GFCI — INDICATES GROUND FAULT CIRCUIT INTERUPTER CIRCUITS PROTECTED WITH GFCI SHALL BE PROVIDED WITH DEDICATED NEUTRALS
- GFP — INDICATES GROUND FAULT PROTECTION
- GRND — INDICATES GROUND
- HOA — INDICATES HAND–OFF–AUTO
- NC — INDICATES NORMALLY CLOSED
- NO — INDICATES NORMALLY OPEN
- NPCO — INDICATES NEVADA POWER COMPANY
- PNL — INDICATES PANEL
- S/N — SOLID NEUTRAL
- UPS — INDICATES UNINTERRUPTIBLE POWER SYSTEM
- WP — INDICATES WEATHER–PROOF (NEMA 3R)
- XFMR — INDICATES TRANSFORMER
- XP — INDICATES EXPLOSION PROOF
- HOMERUN CONDUIT – STROKES INDICATE QUANTITY OF CONDUCTORS
- CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS
- CONDUIT AND/OR WIRE BELOW FLOOR OR GRADE
- AND/OR WIRE RISER UP/RISER DOWN
- CIRCUITING – STROKE WITH DOT INDICATES ISOLATED GROUND CONDUCTOR
- 1/2"–2 #12 & 1 #12 GRND THWN UNLESS NOTED
- 1/2"–3 #12 & 1 #12 GRND THWN UNLESS NOTED
- 1/2"–4 #12 & 1 #12 GRND THWN UNLESS NOTED
- 1/2"–5 #12 & 1 #12 GRND THWN UNLESS NOTED
- 3/4"–6 #10 & 1 #10 GRND THWN UNLESS NOTED
- 3/4"–7 #10 & 1 #10 GRND THWN UNLESS NOTED
- 3/4"–8 #10 & 1 #10 GRND THWN UNLESS NOTED
- PRIMARY SWITCH WITH UNIT SUBSTATION
- PRIMARY SWITCH
- CIRCUIT BREAKER
- SHUNT TRIP CIRCUIT BREAKER
- DRAW–OUT CIRCUIT BREAKER
- FUSIBLE SWITCH
- BOLTED PRESSURE SWITCH WITH GROUND FAULT PROTECTION
- KIRK–KEY SWITCH
- GENERATOR
- GROUNDING ELECTRODE
- M — SINGLE METER WITH CT
- AUTOMATIC TRANSFER SWITCH
- SHUNT TRIP DEVICE LOCATED IN METAL ENCLOSURE WITH HINGED AND LOCKABLE COVER
- FEEDER – SIZE AS INDICATED SEE SHEET E5.00
- DIVISION 15 EQUIPMENT – SEE HVAC AND PLUMBING DRAWINGS
- MOTOR OUTLET

ME RFI 00016

REVISIONS:

- (14) GENERAL REVISION FEBRUARY 25, 2008
- (25) CODE UPDATE DECEMBER 2, 2011

WYNDHAM VACATION OWNERSHIP TOWER I

DESERT BLUE - LAS VEGAS, NEVADA

KGA ARCHITECTURE
KITTRELL GARLOCK AND ASSOCIATES, AIA

4495 SOUTH POLARIS AVENUE
LAS VEGAS, NEVADA 89103 USA
WWW.KGAARCHITECTURE.COM
TELEPHONE: 702 . 367 . 6900
FACSIMILE: 702 . 367 . 2043

CONSULTANTS:

CIVIL – STRUCTURAL
LOCHSA ENGINEERING
PHONE: 702–365–9312

MECHANICAL – PLUMBING – ELECTRICAL – LIFE SAFETY – LOW VOLTAGE – ACOUSTICAL
JBA CONSULTING ENGINEERS
PHONE: 702–362–9200

ELEVATOR CONSULTANT GROUP
LERCH, BATES & ASSOCIATES INC.
PHONE: 949–487–7203

LANDSCAPE
LIFESCAPES INTERNATIONAL
PHONE: 949–476–8888

CURTAIN WALL / WINDOW WALL
CDC CURTAIN WALL DESIGN AND ASSOCIATES
PHONE: 702–222–9349

ADA ACCESSIBILITY
ENDELMAN AND ASSOCIATES
PHONE: 206–324–6462

LIGHTING
LIGHTING DESIGN ALLIANCE
PHONE: 562–989–3843

PROJECT:
WYNDHAM VACATION OWNERSHIP TOWER 1

SHEET CONTENTS:
SYMBOL LIST AND GENERAL NOTES

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