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1736 EAST SUNSHINE, SPRINGFIELD, MISSOURI 65804

Carmon K. Collins, P.E. #00557
3330 E. Battlefield Rd., Suite 1000
Springfield, Missouri 65804
Phone: 417.862.3265
Fax: 417.862.3265
mfece.com
Malone Finkle Eckhardt & Collins, Inc.
MEMBER NATIONAL ASSOCIATION OF ARCHITECTS



CRAIG A. SCHNEIDER, AIA
ARCHITECT
1736 East Sunshine, Suite 417
Springfield, Missouri 65804
e-mail: architect@electricdetail.com

PROJECT:
NEW O'REILLY AUTO PARTS STORE
N. MAIN STREET
WALNUT COVE, NC
ELECTRICAL DETAILS

O'Reilly AUTO PARTS
CORPORATE OFFICES
233 SOUTH PATTERSON
SPRINGFIELD, MISSOURI 65802
(417) 862-2674 TELEPHONE

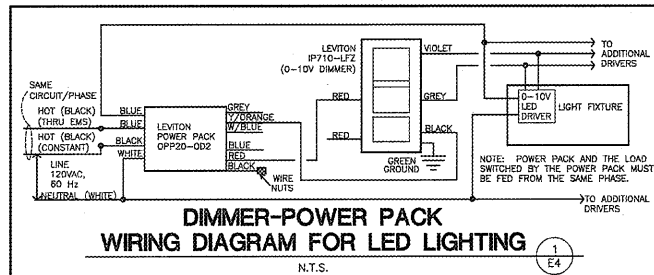
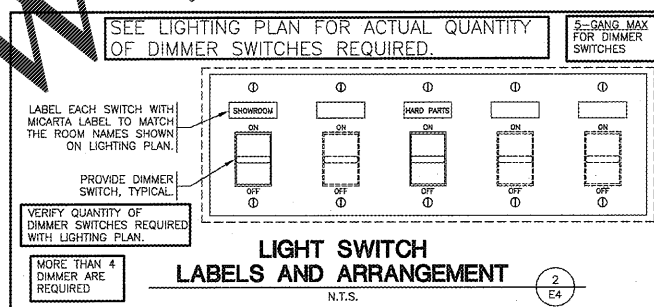
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Order Plans @ WWW.LDILINE.com

ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS

SW	SINGLE POLE SWITCH
2SW	TWO POLE SWITCH
3SW	THREE-WAY SWITCH
MSW	MOTOR STARTING SWITCH WITH PILOT LIGHT
1X	CLASS 1, DIVISION 1 HAZARDOUS LOCATION RATED SWITCH ASSEMBLY
OS10-ID	WALL MOUNTED OCCUPANCY SENSOR EQUAL TO "LEVITON, ODS10-ID"
OSMD-ID	WALL MOUNTED OCCUPANCY SENSOR EQUAL TO "LEVITON, OSSMD-ID"
FSW	FAN SPEED SWITCH (SUPPLIED BY HVAC CONTRACTOR / INSTALLED BY ELECTRICAL CONTRACTOR)
0-10V	0-10V LED DIMMER SWITCH, EQUAL TO "LEVITON, IP710-LFZ". SEE DETAILS THIS SHEET (5-GANG MAX)
PP	LEVITON POWER PACK OPP20-002
⊕	SINGLE RECEPTACLE
⊖	DUPLX RECEPTACLE
⊖⊖	ISOLATED GROUND DUPLX RECEPTACLE (ORANGE IN COLOR). SEE DETAIL 1/E3
⊖⊖⊖	QUADPLX RECEPTACLE (TWO DUPLX RECEPTACLES IN ONE 2-GANG BOX UNDER A SINGLE COVERPLATE)
⊖⊖⊖⊖	EXISTING UNPOWERED DUPLX RECEPTACLE
⊖⊖⊖⊖⊖	ISOLATED GROUND QUADPLX RECEPTACLE (TWO ISO. GRD. DUPLX RECEPTACLES IN ONE 2-GANG BOX UNDER A SINGLE RED IN COLOR COVERPLATE)
⊖⊖⊖⊖⊖⊖	QUADPLX RECEPTACLE (CIRCUIT TO BE WIRED THRU OCCUPANCY SENSOR) INSTALL A PERMANENT LABEL ON EACH OUTLET STATING "SENSOR CONTROLLED OUTLET". SEE DETAIL ON SHEET E2
AC	ABOVE COUNTER GFCI (GROUND FAULT CIRCUIT INTERRUPTING) DUPLX RECEPTACLE
WP	WEATHER PROOF GFCI (GROUND FAULT CIRCUIT INTERRUPTING) DUPLX RECEPTACLE. COVER TO PROVIDE WEATHER PROOF PROTECTION WITH CORD AND PLUG IN USE
⊖	TELE-POWER POLE
⊖	JUNCTION BOX
⊖	REMOTE PHOTO CONTROL
⊖	COMPUTER DATA OUTLET BOX.
⊖	TELEPHONE OUTLET BOX.
⊖	TELEPHONE OUTLET FLOOR BOX. SEE DETAIL 4/E2.
⊖	4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLX RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX.
⊖	4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLX ISOLATED GROUND RECEPTACLE (SEE ABOVE ISOLATED GROUND RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX.
⊖	4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLX ISOLATED GROUND RECEPTACLE (SEE ABOVE ISOLATED GROUND RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX. OUTLET COVER SHALL BE RED IN COLOR
⊖	2" x 4" RECTANGULAR STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLX RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX
⊖	NEMA L5-30R - SPECIAL RECEPTACLE
⊖	MOTOR
⊖/xx/xx	FUSED DISCONNECT (SAFETY) SWITCH W/ SWITCH AMPACITY / FUSE AMPACITY AS INDICATED
⊖	NON-FUSED DISCONNECT (SAFETY) SWITCH
⊖	POWER OR LIGHTING PANEL W/PANEL DESIGNATION SHOWN ON PLAN (SIZES & MOUNTING INDICATED ON PLANS)
⊖	24 HOUR EGRESS & SECURITY LIGHT. WIRE DIRECT TO ELECTRIC PANEL AHEAD OF ANY LOCAL SWITCHES AND LIGHTING CONTROL PANEL.
XS	WALL/CEILING MOUNTED COMBINATION "EXIT/EMERGENCY" SIGN W/SHADING INDICATING FACES
EM	EMERGENCY LIGHTING FIXTURE WITH BATTERY
⊖	FEEDING PANEL AND CIRCUIT NUMBER(S) NOTE: EQUIPMENT GROUND CONDUCTOR NOT SHOWN
⊖	CIRCUIT CONDUCTORS GROUNDED CIRCUIT CONDUCTOR (OR NEUTRAL)
⊖	MOTION DETECTOR - SEE EM SHEETS FOR MORE INFORMATION
⊖	OCCUPANCY SENSOR EQUAL TO "LEVITON, OSC20-MAW" WITH POWER PACK
AC	LOCATED ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
BCU	BLOWER COIL UNIT
CDU	CONDENSING UNIT
EF	EXHAUST FAN
EFU	ELECTRIC FURNACE
FURN	GAS FURNACE
AHU	AIR HANDLER
HP	HEAT PUMP UNIT
PP	POWER PACK
RTU	PACKAGED ROOFTOP UNIT
IMC	INTERMEDIATE METALLIC TUBING
LC	LIGHTING CONTRACTOR
M	MOTOR STARTING
R	RED IN COLOR COVERPLATE
MP	MOTOR STARTING W/PILOT LIGHT
NL	NIGHT LIGHT
PEC	PHOTOELECTRIC CONTROL
RGS	RIGID GALVANIZED STEEL
UPO	UN-POWERED OUTLET
TS	TIME SWITCH
W	WALL OUTLET (40" AFF SEE MOUNTING HEIGHTS)
WP	WEATHERPROOF (ENCLOSURE)
X	EXPLOSION PROOF ASSEMBLY
GFCI	GRD./FAULT CIRCUIT INTERRUPT
EMT	ELECTRICAL METALLIC TUBING
CM	CEILING MOUNTED



GENERAL ELECTRICAL NOTES

- DRAWINGS ARE DIAGRAMMATIC & ARE NOT TO BE SCALED. SEE THE ARCHITECTURAL PLANS & FIELD VERIFY CONDITIONS FOR DIMENSIONS.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE EDITION OF NFPA 70-NATIONAL ELECTRIC CODE (NEC) AS NOTED ON THE CODE SUMMARY SHEET.
- ALL WIRING SHALL BE IN CONDUIT, EXCEPT THAT MC-CABLE MAY BE SUBSTITUTED ONLY AS FOLLOWS:
 - MC-CABLE (MAXIMUM CABLE LENGTH OF 10'-0") MAY BE INSTALLED ONLY FOR BRANCH CIRCUIT WIRING TO LIGHT FIXTURES.
 - MC-CABLE (MAXIMUM CABLE LENGTHS SHOWN ON DETAIL 2/E2) MAY BE INSTALLED ONLY ABOVE SLAB AND ONLY AT LOCATIONS INDICATED ON SHEET E2.
- FEEDER CONDUIT SHALL BE IMC OR RGS ABOVE GRADE & PVC BELOW GRADE WITH IMC OR RGS ELLS & RISERS. INTERIOR BRANCH CIRCUIT CONDUIT SHALL BE ELECTRICAL METALLIC TUBING. EXTERIOR BRANCH CIRCUIT CONDUIT SHALL BE PVC BELOW GRADE WITH IMC OR RIGID GALVANIZED STEEL CONDUIT CONTINUING ABOVE GRADE. (SPEC 26 05 33)
- COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATION DOES NOT MEAN "I WAS HERE FIRST."
- ALL WIRING IN FINISHED SPACES SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE & FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
- COORDINATE ALL EQUIPMENT ROUGH-IN CONNECTION REQUIREMENTS.
- ALL OUTLET BOXES SHALL BE METALLIC. (SPEC 26 05 34)
- ALL CAULKING ON BUILDING PENETRATIONS SHALL BE ELASTOMERIC POLYURETHANE (NO EXCEPTIONS), EQUAL TO "VALKEM" 116. ANY CONTRACTOR WHO USES SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO REMOVE & REPLACE WITH ELASTOMERIC POLYURETHANE.
- RECEPTACLES INSTALLED IN RESTROOMS SHALL BE GFCI TYPE OR SHALL BE PROTECTED BY A GFI DEVICE.
- ALL DEVICES SHALL BE IVORY & SHALL BE EQUAL TO THE FOLLOWING:

SINGLE POLE SWITCHES ---	THREE-WAY SWITCHES ---
DUPLX RECEPTACLE --- (SPEC 26 27 26)	GFCI DUPLX RECEPTACLE ---
ISO. GRD. RECEPTACLES ---	
- USE DEVICE PLATES MANUFACTURED BY THE DEVICE MANUFACTURER. (SPEC 26 27 26)
- FEEDER & BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, STRANDED, 600V THHN/THWN INSULATION. EXCEPTION: WIRE SIZES #10 AWG & SMALLER SHALL BE SOLID. (SPEC 26 05 19)
- CONTRACTOR SHALL PROVIDE A TYPED CIRCUIT DIRECTORY FOR ALL PANELS. (SPEC 26 05 53)
- CONTRACTOR SHALL PROVIDE A ONE(1) YEAR WARRANTY ON ALL WORK PERFORMED.
- CONTRACTOR SHALL PROVIDE NEW WORKING LAMPS IN ALL LIGHT FIXTURES AT JOB COMPLETION.
- CONTRACTOR SHALL COORDINATE WITH & SHALL INCLUDE ALL FEES FOR THE SERVING "ELECTRIC UTILITY CO." TO PROVIDE ELECTRIC SERVICE AS SHOWN. CONTRACTOR SHALL ALSO INCLUDE ALL FEES FOR THE "SERVING PHONE COMPANY" TO INSTALL NO LESS THAN 10 PAIR CABLE TO BUILDING.
- CONTRACTOR SHALL ARRANGE FOR & INCLUDE ALL PERMITS & FEES FOR HIS SCOPE OF WORK.
- CONTROL WIRING BY HVAC CONTRACTOR. FINAL CONNECTIONS BY HVAC CONTRACTOR. SEE SHEET M1.
- APPROVED MANUFACTURERS:

A. PANELBOARDS & SAFETY SWITCHES (DISCONNECTS):	B. DEVICES:	C. FLOOR BOXES:
--- "SQUARE D"	--- "HUBBELL"	--- "STEEL CITY"
--- "GE"	--- "LEVITON"	--- "APPLETON"
--- "SEIMENS"	--- "PASS & SEYMOUR"	--- "HUBBELL"
--- "CUTLER-HAMMER"		
(SPEC 26 24 00)	(SPEC 26 27 26)	(SPEC 26 05 34)
- MULTIWIRE BRANCH CIRCUITS WITH A "SHARED NEUTRAL" ARE NOT ALLOWED FOR SINGLE PHASE CIRCUITS.

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