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699H

SERVICE
CENTER
WAREHOUSE
ADDITION
LITTLE ROCK, ARKANSAS

PERMIT AND BID ISSUE
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REVISIONS		
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Contents:
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AND LEGEND -
ELECTRICAL

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E001

ELECTRICAL GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSTALLATION WITH THE WORK OF OTHER TRADES. FIELD MODIFICATIONS NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER WITHIN STANDARD OF CARE FOR PROFESSION. ALL LABOR, MATERIAL, TOOLS, PERMITS, INSPECTIONS, TESTING, CERTIFICATION, ETC. REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION TO DESIGN INTENT SHALL BE FURNISHED BY CONTRACTOR. PROVIDE AT NO ADDITIONAL COST, INCLUDING INCIDENTAL ITEMS NOT SHOWN WHEN REQUIRED FOR TYPICAL COMPLETION OF WORK.
- DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM DOCUMENTS HAVE BEEN INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL OVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- ALL EQUIPMENT WHICH IS INDICATED TO BE FURNISHED AND/OR INSTALLED BY OTHERS OR BY OWNER IS INCLUDED FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING INSTALLATION REQUIREMENTS OF THIS EQUIPMENT WITH THE APPLICABLE SUPPLIER OR THE OWNER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL ORDINANCES, AND UTILITY COMPANY REGULATIONS. ALL ELECTRICAL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS, AND ORDINANCES. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS. THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION MORE STRINGENT THAT CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.
- IF COMPLIANCE WITH STANDARDS, CODES, REGULATIONS AND CONTRACT DOCUMENTS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, REFER CONFLICTING REQUIREMENTS TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
- WHERE CONTRACT DOCUMENTS NAME A SINGLE MANUFACTURER AND PRODUCT, PROVIDE THE NAMED PRODUCT THAT COMPLIES WITH REQUIREMENTS. COMPARABLE PRODUCTS OR SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE WILL BE CONSIDERED.
- THE PROJECT CLOSEOUT SUBMITTALS SHALL INCLUDE, BUT NOT LIMITED TO, OPERATION AND MAINTENANCE MANUALS AND RECORD DRAWINGS.
- THE CONTRACTOR SHALL VISIT THE SITE OF THE BUILDING BEFORE SUBMITTING A PROPOSAL ON THIS WORK AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND OPERATIONS. FAILURE ON THEIR PART TO DO THIS WILL NOT BE CAUSE OF EXTRA AFTER THE CONTRACT IS SIGNED, BY REASON OF UNFORESEEN CONDITIONS.
- NO PERSON SHALL PERFORM ELECTRICAL WORK ON THE CONTRACT WITHOUT POSSESSING A MASTER'S OR JOURNEYMAN'S LICENSE FROM THE STATE ELECTRICAL EXAMINERS BOARD. ALL ELECTRICAL WORK AND APPRENTICE ELECTRICIANS SHALL BE SUPERVISED BY A MASTER ELECTRICIAN ON A ONE TO ONE RATIO.
- PREPARE AND SUBMIT SUBMITTALS TO ARCHITECT.
- ALL AREAS USED AS RETURN AIR PLENUMS SHALL BE CONSTRUCTED WITH FIRE RESISTANT MATERIALS AND SHALL ONLY CONTAIN MATERIALS WHICH HAVE SMOKE DEVELOPED RATINGS NOT GREATER THAN 50 AND FLAME SPREAD RATINGS NOT GREATER THAN 25.
- ALL ELECTRICAL EQUIPMENT, SUCH AS SWITCHES, CIRCUIT BREAKERS, ETC. SHALL BE TESTED BY OPERATING THE DEVICE TO VERIFY THAT THE MECHANICAL PORTIONS OF THE DEVICE ARE FUNCTIONING.
- THE CONTRACT SHALL ASSIST ALL OTHER TRADES IN PERFORMING ROTATIONAL TESTS ON ALL MOTORS PROVIDED UNDER THIS CONTRACT.
- ALL EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL, SIZED AS SCHEDULED.

WIRE SIZE 120V

- A. #12 LESS THAN 75 FEET
B. #10 BETWEEN 75-150 FEET
C. #8 BETWEEN 150-250 FEET
D. #6 BETWEEN 250-375 FEET

WIRE SIZE 277V

- LESS THAN 150 FEET
BETWEEN 150-300 FEET
BETWEEN 300-450 FEET
BETWEEN 450-700 FEET

LEGEND



EXIT SIGN/COMBINATION EXIT/EMERGENCY LIGHT

2X4 LED TROFFER

RECESSED ROUND DOWN LIGHT

WALL PACK LIGHT SQUARE FIXTURE

PENDANT LIGHT

4' LED STRIP

WALL LIGHT RECTANGLE

VANITY LIGHT RECTANGULAR

ALL LIGHTING FIXTURES ON EMERGENCY POWER SHALL BE SHOWN GRAPHICALLY AS RED COLOR. FILL WITH DARK RED LINES.

SINGLE POLE SWITCH: "3" DENOTES 3-WAY, "4" DENOTES 4-WAY. COORDINATE WITH FIXTURE LAMP TYPE AND CIRCUIT WATTAGE. MOUNT 48" A.F.F. UNLESS OTHERWISE NOTED.

6-BUTTON LOW VOLTAGE WALL SWITCH. EACH BUTTON TO CONTROL 1 CIRCUIT OF WAREHOUSE LIGHTING. WIRING PER MANUFACTURER.

CEILING MOUNTED DUAL TECH. OCCUPANCY SENSOR. PROVIDE AND INSTALL APPROPRIATE POWER PACK. COORDINATE SWITCHING, LOCATION AND QUANTITY WITH ACTUAL OCCUPANCY SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION.

HIGH BAY OCCUPANCY SENSOR. PROVIDE AND INSTALL APPROPRIATE POWER PACK. COORDINATE OVERSIOBE SWITCHING, LOCATION AND QUANTITY WITH ACTUAL OCCUPANCY SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION.

WALL MOUNTED DUAL TECH. OCCUPANCY SENSOR. PROVIDE AND INSTALL APPROPRIATE POWER PACK. COORDINATE SWITCHING, LOCATION AND NUMBER WITH ACTUAL OCCUPANCY SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE.

DATA: REQUIRES 4-11/16" SQUARE OUTLET BOX, APPROPRIATE PLASTER RING, AND 1" C MINIMUM OF TWO DATA CABLES AT EACH LOCATION SHOWN UNLESS OTHERWISE NOTED. MOUNT 18" AFF UNLESS OTHERWISE NOTED. NUMBER INDICATES QUANTITY OF DATA JACKS. ALL DATA IS TO BE BY WHITES CABLING.

DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER.

DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER GROUND FAULT INTERRUPTER.

SPECIAL RECEPTACLE AS NOTED ON THE PLANS.

JUNCTION BOX. VERIFY MOUNTING HEIGHT WITH MILLWORK DETAILS AND/OR THE OWNER'S REPRESENTATIVE. AT EQUIPMENT LOCATIONS VERIFY THE EXACT LOCATION WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

BRANCH CIRCUIT HOMERUN ABOVE GRADE. PANEL AND CIRCUIT NUMBER INDICATED.

BRANCH CIRCUIT HOMERUN BELOW GRADE. PANEL AND CIRCUIT NUMBER INDICATED.

ELECTRICAL PANEL.

NEW WIRE & ONE LINE CONDUIT ABOVE GRADE

NEW WIRE & ONE LINE CONDUIT BELOW GRADE

EXISTING WIRE & ONE LINE CONDUIT ABOVE GRADE

EXISTING WIRE & ONE LINE CONDUIT BELOW GRADE

SUBSCRIPTS:
GF = GROUND FAULT CIRCUIT INTERRUPTER
WP = WEATHER RESISTANT RECEPTACLES PER NEC.
C = CONDUIT
EM = FIXTURE CONTAINS EMERGENCY BATTERY PACK.
NL = UNSWITCHED EMERGENCY FIXTURE.
H = MOUNT HORIZONTALLY IN MILLWORK.
EO = ELECTRICAL CONTRACTOR
AFF = ABOVE FINISHED FLOOR
AFO = ABOVE FINISHED GRADE
EPO = EMERGENCY POWER OFF

DUCT DETECTOR - POTTER, INSTALLED BY SUMMIT.

FUSED/NON-FUSED DISCONNECT-FUSE ALL EQUIPMENT PER MANUFACTURER RECOMMENDATION FOR THE ACTUAL EQUIPMENT FURNISHED. FURNISH NEMA-4X IN THE KITCHEN. MOUNT DISCONNECT FOR HVAC CONDENSER UNITS WITH TOP OF SWITCH AT 36" A.F.F.

WIRELESS INTERNET EQUIPMENT FURNISHED AND INSTALLED BY THE OWNER. FURNISH AND INSTALL TWO DATA CABLES.

FIRE ALARM RELAY - OVERHEAD DOOR - POTTER, INSTALLED BY SUMMIT.

FIRE ALARM - HORN/STROBE - POTTER, INSTALLED BY SUMMIT.

FIRE ALARM - STROBE - POTTER, INSTALLED BY SUMMIT.

FIRE ALARM - PULLSTATION - POTTER, INSTALLED BY SUMMIT.

CAMERA - CONTRACTOR TO PROVIDE BOX AND CONDUIT. COORDINATE WITH OWNERS VENDOR

CAMERA - CONTRACTOR TO PROVIDE BOX AND CONDUIT. COORDINATE WITH OWNERS VENDOR

CARD READER - CONTRACTOR TO PROVIDE BOX AND CONDUIT. COORDINATE WITH OWNERS VENDOR