



SYSTEM NOTES

- ALARM BOX, J-BOX AND 1" CONDUIT STUBBED UP AND OUT OF HALL. OPEN CEILING, INSTALL BOX 12" ABOVE TRACK LIGHTING SYSTEM. HARD CEILINGS, INSTALL BOX 6" BELOW CEILING BY ELECTRICAL CONTRACTOR. CABLE AND ALARM BOX BY CHECKPOINT. SEE POWER PLANS FOR LOCATION, COORDINATE WITH CONSTRUCTION MANAGER.
- ELECTRICAL CONTRACTOR TO PROVIDE A 120V, DUPLEX RECEPTACLE
- ELECTRICAL CONTRACTOR TO PROVIDE A RJ45 ETHERNET JACK TIED INTO STORE NETWORK SYSTEM
- NO EQUIPMENT MOUNTED ON OR ANY MODIFICATIONS MADE TO BLACK METAL PORTAL ENTRY.

NOTE:
CONTRACTOR MUST VERIFY AN UNOBSTRUCTED MINIMUM FREE AREA OF 3 FT. VERTICALLY AND 3 FT. WIDE IN EVERY DIRECTION ABOVE THE OUTLETS TO ALLOW FOR INSTALLATION OF THE RECEPTACLE, DATA JACK, AND POWER SUPPLY EQUIPMENT. IF FREE AREA CANNOT BE OBTAINED IN THIS LOCATION, IMMEDIATELY CONTACT THE ESD&C PROJECT MANAGER FOR FURTHER INSTALLATION INSTRUCTIONS.

NOTE:
GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE CHECKPOINT SYSTEM WITH CHECKPOINT MANUFACTURER SPECIFICATIONS AND INSTALLATION GUIDE.

SYSTEM SPECIFICATIONS

- LOW PROFILE SYSTEM
 - OVERVIEW:
THE LOW PROFILE OVERHEAD RFID EAS SOLUTION CONSISTS OF A MAIN CONSOLE AND TWO SATELLITE TRANSMIT ANTENNAS. THE SYSTEM DETECTS RFID TRANSPONDERS USING A UHF (ULTRA HIGH FREQUENCY) READER. MATERIALS USED IN THE INSTALLATION MUST BE TRANSPARENT TO UHF RADIO SIGNALS.
 - SPECIFICATIONS:
EXTERNAL CONNECTIONS:
INPUT POWER: 120 VAC, 1.5A, 60Hz
ETHERNET: RJ45 CONNECTOR
ALARM BOX: RJ45 CONNECTOR
MAIN CONSOLE DIMENSIONS (LxWxH): 18 IN. X 23 IN. X 6 IN.
SATELLITE ANTENNA DIMENSIONS (LxWxH): 16 IN. X 9 IN. X 1.5 IN.
 - INSTALLATION CONSIDERATIONS:
MAIN CONSOLE
THE MAIN CONSOLE CONTAINS THE RFID READER, ANTENNAS AND ALL ELECTRONICS. THE INCLUDED BRACKET ALLOWS FOR INSTALLATION IN EITHER A FLUSH-MOUNT OR SUSPENDED CONFIGURATION.
POWER SUPPLY
THE SYSTEM IS POWERED BY A UNIVERSAL POWER SUPPLY. FOR EASE OF ACCESS, THE POWER SUPPLY CAN BE MOUNTED UP TO 25 FT. FROM THE MAIN CONSOLE. A 120V, 1.5A AMP POWER DROP IS REQUIRED FOR THE POWER SUPPLY.
ETHERNET CONNECTION
THE RFID READER COMMUNICATES USING A STANDARD ETHERNET CONNECTION. AN ETHERNET CABLE DROP IS REQUIRED.
ALARM BOX
THE ALARM BOX CAN BE INSTALLED AT THE EXIT OR NEAR THE CASH WRAP. AS REQUIRED, THE ALARM BOX IS CONNECTED TO THE MAIN CONSOLE VIA A CAT-5 CABLE WITH STANDARD RJ45 CONNECTORS AT EACH END.
SATELLITE ANTENNAS
THE SATELLITE ANTENNAS ARE INSTALLED AT BOTH SIDES OF THE ENTRANCE, APPROXIMATELY 6 IN. (15 CM.) IN FROM DOOR OR PORTAL ENTRY. THE ANTENNAS ARE MOUNTED VIA A BRACKET WHICH ALLOWS THEM TO BE INSTALLED AT AN ANGLE. THE SPECIFIC ANGLE WILL BE DETERMINED DURING THE SITE SURVEY AND INSTALLATION BY THE CHECKPOINT SERVICE TECHNICIAN.
- 1.3.1 INSTALLATION HEIGHT
FOR OPTIMAL PERFORMANCE THE CONSOLE AND SATELLITE ANTENNAS SHOULD BE INSTALLED AT 12'-0" MAXIMUM ABOVE THE FINISHED FLOOR.
- 1.3.2 INSTALLATION LOCATION
THE LOCATION OF THE OVERHEAD SYSTEM RELATIVE TO THE DOOR THRESHOLD IS A CRITICAL FACTOR TO ENSURE RELIABLE ALARM TYPING. IF THE SYSTEM IS TOO CLOSE TO THE DOOR THRESHOLD, SOME ALARMS MAY OCCUR BEYOND THE DOOR THRESHOLD.
ENTRANCE WIDTH DISTANCE FROM BACK OF ENTRY PORTAL TO CONSOLE CENTERLINE
6 FT. (2 m) 2 FT. TO 4 FT. (1.25 m TO 2 m)
10 FT. (3 m) 2 FT. TO 4 FT. (1.25 m TO 2 m)
18 FT. (4 m) 2 FT. TO 4 FT. (1.25 m TO 2 m)
CONTACT THE CHECKPOINT FOR EXACT REQUIREMENTS AND INSTALLATION REQUIREMENTS PRIOR TO WORK COMMENCEMENT
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SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER
○ ● ⊙ ⊕ ⊕	RECESSED DOWNLIGHT	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
↑	TRACK LIGHT	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT STRIP	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT STRIP (CHAIN HUNG)	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT STRIP (SURFACE MOUNT)	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
— EM	EMERGENCY FLOOR STRIP	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
—	FLUORESCENT TROFFER	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
⬆	SCONCE	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
○	DECORATIVE PENDANTS	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
⬆	EXIT SIGN	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
⬆	EXIT SIGN	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
⬆ X A	EMERGENCY LIGHT, SEMI-RECESSED	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
X A	EMERGENCY LIGHT, RECESSED	REFER TO THIS SHEET FOR LIGHTING FIXTURE DESCRIPTION
⬆	SWITCH	
⬆	SWITCH - MOTION SENSOR	HUBBELL ADI277H2 PASSIVE INFRARED, DOUBLE POLE, SINGLE THROW HALL SWITCH SENSOR WITH TWO SEPARATE RELAYS. WHITE COLOR FINISH.
⬆	CEILING MOUNTED- MOTION SENSOR	HUBBELL ATD2000C DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR WITH SEPARATE RELAYS. WHITE COLOR FINISH.
⬆	CEILING MOUNTED- DAYLIGHT SENSOR	HUBBELL #DHAP AND DHCM CONTROL UNIT, MOUNTING LOCATION AND SENSITIVITY SETTINGS TO BE FIELD DETERMINED
⬆	WALL MOUNTED- VACANCY SENSOR	HUBBELL #RM19140N
⬆	SWITCH DIMMER	HUBBELL 661W, SINGLE POLE, SINGLE THROW HALL DIMMER SWITCH. WHITE COLOR FINISH.
⬆	CURRENT LIMITER	# INDICATES AMPERAGE OF SUPPLEMENTAL BREAKER
NL	NIGHT LIGHT	
EM	EMERGENCY LIGHTING FIXTURE	
⬆	CEILING EXHAUST FAN	GC160, 120 VOLT, 1 PHASE, 115 WATTS
⬆	TRAFFIC COUNTER	
⬆	SPEAKERS	NOTE: WALL MOUNTED/CEILING MOUNTED
⬆	SUBWOOFER	
⬆	SECURITY CAMERA	
⬆	VIEW MONITOR FOR SECURITY SYSTEM	

LIGHTING SYMBOL SCHEDULE

- LIGHTING SHALL BE CIRCUITED EXACTLY AS SHOWN ON PLANS. CIRCUITING SHALL BE "THRU-WIRING" WHERE AND WHENEVER POSSIBLE. MULTIPLE CONNECTIONS TO A SINGLE LIGHT FIXTURE FOR VOLTAGE DROP CONDITIONS OR AS A RESULT OF A FIELD CONDITION ARE ACCEPTABLE. LIGHTING FIXTURES SHALL BE MANUFACTURED TO ACCOMMODATE "THRU-WIRING". ANY RELATED COSTS FOR MULTIPLE CONNECTIONS SHOULD BE INCLUDED IN BID.
- ELECTRICAL CONTRACTOR'S BID SHALL INCLUDE THE INSTALLATION OF ALL LIGHT FIXTURES AND ASSOCIATED LAMPS FURNISHED BY LIGHTING PACKAGE DISTRIBUTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THE ADJUSTABILITY OF ALL DIRECTIONAL FIXTURES AFTER INSTALLATION AND AIM THEM PER GC DIRECTION. LIGHT FIXTURE SPECIFICATIONS MAY VARY. IF THIS IS THE CASE, CONTRACTOR IS TO CALL PURCHASING AGENT WHO WILL THEN CALL THE DISTRIBUTOR FOR EXACT SPECIFICATION OF LIGHTING FIXTURES. IF THE CEILING SYSTEMS ARE FIRE RATED, ELECTRICAL CONTRACTOR IS TO CLOSELY COORDINATE FIXTURE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION.
- EMERGENCY AND EXIT LIGHTS SHALL BE INSTALLED AND CIRCUITED PER LOCAL AND LATEST NATIONAL ELECTRICAL CODES. ALL EMERGENCY AND EXIT FIXTURES SHALL BE DUAL VOLTAGE WITH BATTERY BACK UP (120/277 VOLT INPUT). INSTALL A CENTRAL BATTERY SYSTEM WHERE THE USE OF INDIVIDUAL BATTERY UNITS ARE PROHIBITED BY LOCAL CODES. IF PLAN LOCATION IS NOT ACCEPTABLE, IMMEDIATELY CONTACT PROJECT MANAGER FOR DIRECTION.
- ALL LIGHTING CIRCUITS UP TO 100'-0" IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. ALL LIGHTING CIRCUITS FROM 100'-1" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. ALL LIGHTING CIRCUITS 150'-0" UP TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. CIRCUITS ABOVE 251'-0" SHALL UTILIZE #6 CONDUCTORS MINIMUM.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A FULLY COMPLETE AND OPERABLE SYSTEM.
- IT WILL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO UNLOAD INVENTORY AND STORE LIGHTING PACKAGE. THE ELECTRICAL CONTRACTOR WILL ALSO SHIP ANY EXCESS MATERIALS BACK TO THE ELECTRICAL PACKAGE DISTRIBUTOR.
- THE ELECTRICAL CONTRACTOR MUST INCLUDE IN THE BID TWO (2) HOURS OF START-UP TIME FOR THE LIGHTING CONTROL SYSTEM. THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE COMPONENTS FOUND TO BE DEFECTIVE. THE ELECTRICAL CONTRACTOR MUST COORDINATE LIGHTING CONTROL START-UP WITH HVAC MANUFACTURER REPRESENTATIVE. FAILURE TO DO SO MAY REQUIRE THE ELECTRICAL CONTRACTOR TO RETURN TO THE JOB SITE TO PERFORM START-UP AT A FUTURE DATE AT THE ELECTRICAL CONTRACTOR'S OWN EXPENSE.
- EXIT/EMERGENCY LIGHTS AT STOREFRONT ARE TO BE CEILING MOUNTED AND CENTERED OVER OPENING. EXIT/EMERGENCY LIGHTS AT DOOR TO NON-SALES SHALL BE CEILING MOUNTED AND CENTERED ABOVE DOOR. IF PLAN LOCATION IS NOT ACCEPTABLE, IMMEDIATELY CONTACT THE PROJECT MANAGER FOR DIRECTION.
- ELECTRICAL CONTRACTOR SHALL REFER BACK TO ARCHITECTURAL SHEETS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED EMERGENCY EGRESS AND EXIT FIXTURES. IF PLAN LOCATION IS NOT ACCEPTABLE, IMMEDIATELY CONTACT PROJECT MANAGER FOR DIRECTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION AND EXACT LOCATION OF EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, SPEAKERS, DIFFUSERS, AND OTHER ARCHITECTURAL ELEMENTS.
- ELECTRICAL CONTRACTOR SHALL MOUNT EXIT SIGN/EMERGENCY LIGHT ON CEILING OR MOUNT EXIT SIGN/EMERGENCY LIGHT TO JUNCTION BOX ATTACHED TO CONDUIT HANGING FROM STRUCTURE ABOVE IN OPEN CEILINGS. REFER TO ARCHITECTURAL SHEETS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS.
- REFER TO SHEET E05.1 FOR PANEL SCHEDULES AND LIGHTING ZONE DESIGNATIONS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE UNISTRUT AND THREADED ROD FOR ALL SUSPENDED TRACK LIGHTS, EXIT SIGNS, EMERGENCY LIGHTS AND SPEAKERS
- GENERAL CONTRACTOR SHALL VERIFY CEILING FIRE RATING WITH ARCHITECT, AND BOX OR TENT ALL RECESSED LIGHT FIXTURES, IF REQUIRED, TO MAINTAIN CEILING FIRE RATING
- ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL SHEETS FOR MOUNTING HEIGHTS AND INSTALLATION DETAILS FOR SUSPENDED LIGHTING IN SALES AREA, DENIM ROOM AND NON-SALES AS APPLICABLE

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ELECTRICAL LIGHT FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER	HEIGHT	LAMP	WATTS	VOLTS
NZE	1' x 4' SURFACE MOUNTED SINGLE LAMP FLUORESCENT TROFFER, PRISMATIC ACRYLIC LENS, ELECTRONIC BALLAST WITH EMPK	MERCURY M30-232-OCT-9A-ELB-120V-EMPK LAMP: PHILIPS F32T8/TL830/ALTO	8 3/4'	(2) 32 WATT T8, MEDIUM BI-PIN BASE, LINEAR FLUORESCENT, 8000K, 85 CRI, 30,000 HOURS	68 WATTS	120 VOLTS
T8	PAR38 SLIM STYLE GIMBAL TRACK HEAD WHITE FINISH WITH ON/OFF SWITCH LABELED 25 WATT MAX FLOOD LAMP WHITE LAMP FINISH	CONTECH CTL838/2-P-28W LAMP: PHILIPS 42909 18.5PAR38/P25 3000K	10 1/8'	19 WATT PAR38 LED, MED BASE SOCKET 3000K FLOOD 25 DEGREE WHITE LAMP	20 WATTS	120 VOLTS
T5	SURFACE MOUNTED SINGLE CIRCUIT TRACK, WHITE FINISH	CON-TECH LT2P, LT4P, LT6P, LT8P AS REQUIRED	11/16"	-	-	-
X2	SINGLE FACE ADJUSTABLE RECESSED OR WALL MOUNT LED EDGE-LIT EXIT SIGN WITH 90MIN BATTERY BACK UP WHITE FINISH WITH RED LETTERING ON CLEAR FACEPLATE.	CONTECH REXA-SF-R-EM-P SUPPLIED WITH FIXTURE	11 1/16"	INTEGRAL LED	3 WATTS	120 VOLTS
X6	THERMAPLASTIC EXIT SIGN, UNIVERSAL MOUNTING CEILING/HALL, LED LAMPS AND INTEGRAL BATTERY BACK UP FOR 90 MINUTES	LIGHTALARMS NAQLXN60CR-N SUPPLIED WITH FIXTURE	-	INTEGRAL LED	4 WATTS	120 VOLTS
XA	RECESSED EMERGENCY LIGHT FOR SALES FLOOR USE, ADJUSTABLE LAMP, INTEGRAL BATTERY FOR EMERGENCY OPERATION 90 MINUTE 2 HEAD UNIT BLACK FINISH	DMF DEL44-6-B	8 3/4'	2 (6V LAMPS)	10 WATTS	120 VOLTS

EXPRESS

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PROJECT INFORMATION:

EXPRESS
TANGER OUTLET CENTER BRANSON
300 TANGER BLVD.
BRANSON, MO 65616

OUTLET
FALL 2014
140301

NEW PACKAGE:
DC GENERATION:
95152 AVE PROJECT #:

SCOPE:
DESIGN TYPE:
ESD&C PROJECT #:

REVISIONS:

REQUIRED BY: DATE

ELITE CONSTRUCTION GROUP
LAKE JACKSON, TX
PHONE: 979-285-0712
NOTE: THESE PRINTS HAVE BEEN REDUCED BY 50 PERCENT SCALE WILL BE 50 PERCENT OF WHAT IS NOTED ON PLANS

* INDICATES NO REVISION TO THIS SHEET



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DATE ISSUED: 07/18/14
DESIGNED BY: BDB
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CHECKED BY: DFC

**ELECTRICAL
DETAILS AND
SCHEDULES**

DRAWING NUMBER:

E04.1