

## ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE UNO.
AHJ APPROX	AUTHORITIES HAVING JURISDICTION APPROXIMATE
BLDG	BUILDING
CKT	CIRCUIT
CLG	CEILING
CM	STARBUCKS CONSTRUCTION MANAGER
CONST	CONSTRUCTION
CW	COLD WATER
CXA	COMMISSIONING AGENT
DEG	DEGREES
DL	LIGHTS WITHIN DAYLIGHT ZONE
DM	STARBUCKS DESIGN MANAGER
DN	DOWN
DTL	DETAIL
DTLWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
ECP	EQUIPMENT CONTROL PAC
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EXIST	EXISTING
EXT	EXTERIOR
F&I	FURNISH & INSTALL
FLR	FLOOR
FT	FOOT/FEET
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HR	HOUR
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
LCP	LIGHTING CONTROL PANEL
LL	LANDLORD
LS	LIGHT SENSOR PHOTOCCELL
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
NL	NIGHTLIGHT
NTS	NOT TO SCALE
OCP	OVERCURRENT PROTECTION
REF REQ(D)	REFERENCE REQUIRE(D)
REV	REVISION
SF	SQUARE FEET
SHT	SHEET
SPECS	SPECIFICATION(S)
SST	STAINLESS STEEL
TEL	TELEPHONE
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
USB	20A DUPLEX RECEPTACLE WITH USB CHARGING PORT (SEE SPECIFICATION ON THIS SHEET)
WH	WATER HEATER
WP	WEATHER PROOF

## ELECTRICAL SYMBOL LEGEND

	JUNCTION BOX		RECEPTACLE: DUPLEX
	SWITCH		RECEPTACLE: DUPLEX - ONE SWITCHED
	THREE-WAY SWITCH		RECEPTACLE: QUADPLEX
	MOTION (OCCUPANCY) SENSOR SWITCH		DATA OUTLET
	SWITCHBACK		RECEPTACLE: FLOOR DUPLEX
	TELEPHONE		GROUNDING ELECTRODE CONNECTION
	THERMOSTAT (EMS)		NIGHTLIGHTING 24HR/DAY
	THERMOSTAT SENSOR (EMS)		PHOTOELECTRIC CELL (EMS)
	DIMMER SWITCH		SPEAKER
	SPECIAL RECEPTACLE: SEE NOTE/SCHEDULE FOR DETAILS		

 RACEWAY CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE NUMBER OF WIRES. #12 AWG WIRE UNLESS OTHERWISE NOTED. TWO WIRES PLUS GROUND IF NO HASH MARKS SHOWN. LONG HASH MARK DENOTES NEUTRAL. DOT DENOTES GROUND.

## RECEPTACLE WITH USB CHARGING PORT

PROVIDE UL FEDERAL SPECIFICATION CERTIFIED TAMPER-RESISTANT DUPLEX RECEPTACLE WITH USB CHARGING CAPABILITIES. FEATURES SHALL INCLUDE OVERALL 3.1A USB CHARGING CAPABILITY, AUTO GROUND CLIPS, ZINC-PLATED GROUND TERMINAL SCREW AND TRIPLE-WIPE BRASS CONTACTS.  
PASS & SEYMOUR #TRS5362USB\* OR EQUAL  
\* - FINISH COLOR SHALL BE AS SPECIFIED ON ARCHITECTURAL DRAWINGS OR AS DIRECTED BY OWNER'S REPRESENTATIVE.

## CARBON MONOXIDE (CO) DETECTOR NOTES

COORDINATE INSTALLATION OF CARBON MONOXIDE (CO) DETECTOR DEVICE(S) AND LOW VOLTAGE WIRING WITH STARBUCKS SECURITY VENDOR FOR NEW STORES, RELOCATIONS AND MAJOR RENOVATIONS, IF IN VENDOR SCOPE. VENDOR TO PROVIDE AND INSTALL DEVICE(S) IN BOH AND FOH (AS APPLICABLE PER STARBUCKS STANDARDS).

## ENERGY MANAGEMENT SYSTEM (EMS)

THE GENERAL CONTRACTOR SHALL INSTALL SURVEYOR EMS. PRIOR TO LAST WEEK OF CONSTRUCTION, IF NEEDED, FURNISH AND INSTALL TEMPORARY THERMOSTATS AND SENSORS, AND ROUTE ALL LOW VOLTAGE WIRING THROUGH EC PROVIDED CONDUITS (COORDINATE WITH ELECTRICAL).

FURNISH AND INSTALL RACEWAYS WITH PULL STRINGS AND JUNCTION BOXES FOR THERMOSTAT(S) AND SENSOR(S).

THE GENERAL CONTRACTOR IS TO COMPLETE FINAL CONNECTION AFTER DATA RACK AND NETWORK INSTALLATION. THE GENERAL CONTRACTOR IS TO CONTACT LCP VENDOR TO VERIFY SYSTEM OPERATION AND TROUBLESHOOT IF REQUIRED.

## SECURITY SYSTEM NOTES

STARBUCKS CONTRACTS DIRECTLY WITH SECURITY VENDOR TO SUPPLY AND INSTALL THE SECURITY SYSTEM. CONTRACTOR TO SCHEDULE INSTALLATION OF SECURITY SYSTEM FOR FOUR (4) TIMES:

- MEET TO PLAN SECURITY CABLE PULL WITH SECURITY CABLE INSTALLER PRIOR TO DRYWALL INSTALLATION.
- SECURITY CABLE INSTALLER PULLS SECURITY CABLES, MOUNTS PANEL, KEYPAD AND SENSORS.
- SECURITY EQUIPMENT INSTALL OF CAMERA, NVR AND MONITOR.
- SECURITY MONITORING COMPANY TO BRING SYSTEM ONLINE AND TRAIN PARTNERS AFTER POS INSTALL.

SECURITY VENDOR REQUIRES A MINIMUM TWO (2) WEEKS LEAD TIME FOR EACH INSTALLATION. SECURITY VENDOR WILL COORDINATE REGIONAL INSTALLERS. ALL ADDITIONAL EXPENSES INCURRED DUE TO THE CONTRACTOR'S FAILURE TO SCHEDULE ACCORDINGLY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

## TELEPHONE SYSTEM NOTES

IF ADDITIONAL TELEPHONE LINES ARE REQUIRED BEYOND THE STANDARD SINGLE LINE (SUCH AS FOR A FIRE ALARM) THE GENERAL CONTRACTOR SHALL CONTACT THE STARBUCKS CONSTRUCTION MANAGER PRIOR TO BEGINNING CONSTRUCTION TO ORDER THE ADDITIONAL TELEPHONE LINE(S). REPORT ANY TELEPHONE INSTALLATION ISSUES IMMEDIATELY TO THE STARBUCKS CONSTRUCTION MANAGER.

CONFIRM PRIOR TO BEGINNING CONSTRUCTION THAT THERE ARE EXISTING WORKING TELCO FACILITIES TO THE BUILDING OR THAT LANDLORD HAS FURNISHED AND INSTALLED ONE (1) 2" (51MM) MIN. (ENTRANCE) CONDUIT INCLUDING PULL STRING FROM TELCO STREET FEED LINE TO THE BUILDING AS IDENTIFIED BY THE PHONE COMPANY. NOTIFY STARBUCKS CONSTRUCTION MANAGER IMMEDIATELY IF FACILITIES OR CONDUIT AND PULL STRING ARE NOT INSTALLED.

GENERAL CONTRACTOR IS TO ENSURE THAT THERE IS A 2" (51MM) MIN. CONDUIT WITH PULL STRING FROM THE DATA RACK TO THE DEMARC (TELCO TO CUSTOMER HAND OFF EQUIPMENT) WHEN THE DEMARC IS MORE THAN 10' FROM THE DATA RACK. DISTANCES LESS THAN 10' WILL NOT REQUIRE CONDUIT.

## FIRE ALARM SYSTEM NOTES

IF STARBUCKS IS REQUIRED TO PROVIDE A FIRE ALARM AND/OR FIRE ALARM MONITORING AND/OR PHONE LINES FOR A FIRE ALARM, AS SPECIFIED IN THE LEASE AGREEMENT, THE CONTRACTOR IS TO NOTIFY GNOC IMMEDIATELY THAT FIRE ALARM LINES ARE NEEDED. STARBUCKS PREFERRED FIRE ALARM SERVICE PROVIDER, STANLEY, IS TO BE CONTACTED BY THE CONSTRUCTION MANAGER TO INSTALL FIRE ALARM PANEL AND/OR MONITORING SERVICE AS REQUIRED.

## WIRELESS NETWORK NOTES

CABLING FOR INTERNET SERVICE SHALL BE FURNISHED AND INSTALLED BY THE VENDOR FOR FIBER OR BROADBAND CONNECTIONS. T1 AND ETHERNET EXTENSION CABLING IS PROVIDED BY THE STARBUCKS (TELEPHONE/NETWORK) CABLING VENDOR. COORDINATE WITH STARBUCKS.

## MUSIC SYSTEM NOTES

MOUNT OWNER FURNISHED SPEAKERS WHERE SHOWN ON INTERIOR REFLECTED CEILING PLANS AND IN COORDINATION WITH ALL PLANS, DETAILS AND MANUFACTURER'S INSTALLATION REQUIREMENTS. INSTALL AND CONNECT OWNER FURNISHED WIRING SYSTEM BETWEEN ALL SPEAKERS AND THE OWNER PROVIDED MUSIC SYSTEM. SET WATTAGE TAP ON EACH SPEAKER'S ROTARY SWITCH PER TAP SETTINGS NOTED ON PLANS.

## GENERAL ELECTRICAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS. OVERALL CASEWORK COMPONENT DIMENSIONING ON ELECTRICAL DETAILS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE PROJECT MANUAL.
- ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANEL BOARD.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DE-ENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTORS EXPENSE UNLESS OTHERWISE NOTED.
- THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM OUTAGES WITH THE GENERAL CONTRACTOR AND LANDLORD AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT AND J-BOXES TO SUPPORT A COMPLETE SECURITY, PHONE, POS AND DATA SYSTEMS. SEE MANAGER WORKSTATION AND BAR POINT OF SALE (POS) POWER/TELECOM/SECURITY DIAGRAM. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN. PROVIDE END-TO-END PULL STRINGS IN ALL CONDUITS. LABEL EACH END OF THE PULL STRING WITH CONDUIT SYSTEM ("SECURITY") AND DESTINATION ("CAFE", "FRONT BAR", ETC.). PROVIDE INSULATED BUSHINGS ON ALL STUBBED-UP AND EXPOSED CONDUIT ENDS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK.
- EXPOSED/SURFACE MOUNTED CONDUITS SHALL ONLY BE ALLOWED WHERE NECESSARY IN EXPOSED CEILING AREAS. IF CONDUITS NEED TO BE SURFACE MOUNTED TO WALLS, COORDINATE WITH STARBUCKS CONSTRUCTION MANAGER FOR APPROVAL.
- VERIFY LOCATION OF ALL OUTLETS AND SWITCHES WITH ARCHITECTURAL DRAWINGS, INTERIOR DETAILS, FINISH SCHEDULES, GENERAL CONTRACTOR, EQUIPMENT VENDORS, STARBUCKS AND EXISTING SITE CONDITIONS. VERIFY FINAL DOOR HINGE LOCATION PRIOR TO SWITCH INSTALLATION AND ADJUST SWITCH LOCATION IF NEEDED. DO NOT MOUNT RECEPTACLES/SWITCHES IN LOCATIONS THAT WOULD CONFLICT WITH MIRRORS, SEAMS OF WALLS, WAINSCOTS, TILE TRANSITIONS, ETC..

## GENERAL NOTES

**SCOPE**  
THE INTENT OF THE DRAWINGS AND PROJECT MANUAL IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THE ELECTRICAL WORK.

**SITE EXAMINATION**  
THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, CONDUIT, AND WIRING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK.

**STANDARDS**  
EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF CSA, UL, NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

**CODES**  
ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE PROVINCIAL AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CODES, THE HIGHEST STANDARD SHALL APPLY. ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO STARBUCKS.

**PERMITS AND FEES**  
THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY TO COMPLETE THE ELECTRICAL WORK.

**WARRANTY**  
THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY STARBUCKS AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

## LANDLORD REQUIREMENTS

**PRIOR TO BID:** THE CONTRACTOR SHALL COORDINATE WITH LANDLORD / BUILDING OWNER FOR ANY CONSTRUCTION REQUIREMENTS. IF LANDLORD / BUILDING OWNER DOES HAVE REQUIREMENTS, CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH REQUIREMENTS AND ADHERE TO THEM. WHERE LANDLORD / BUILDING OWNER REQUIREMENTS ARE MORE STRINGENT THAN SHOWN IN THESE PLANS (IN THE OPINION OF THE ENGINEER), LANDLORD / BUILDING OWNER REQUIREMENTS SHALL GOVERN.

## ELECTRICAL SCOPE OF WORK SUMMARY

THE FOLLOWING SCOPE OF WORK IS BASED ON THE LANDLORD'S WORKLETTER EXHIBIT C. THIS SCOPE OF WORK IS NOT INTENDED TO INDICATE THE FULL SCOPE, BUT ONLY A BROAD SUMMARY. THE GENERAL CONTRACTOR SHALL REFERENCE THE COMPLETE WORKLETTER FOR A MORE DETAILED DESCRIPTION OF WORK BY BOTH PARTIES. ANY QUESTIONS REGARDING SCOPE SHALL BE BROUGHT TO STARBUCKS ATTENTION FOR CLARIFICATION. RESPONSIBILITY INDICATED BELOW MEANS FURNISHED, PERMITTED AND INSTALLED BY THE PARTY INDICATED.

WORK DESCRIPTION	RESPONSIBILITY	
	LANDLORD	STARBUCKS
MAIN BUILDING SERVICE AND POWER METER	EXISTING	
ELECTRICAL PANELS AND FEEDERS	X	
TEMPORARY POWER	X	
ELECTRICAL PANEL BREAKERS	X	
ABOVE FLOOR BRANCH CIRCUIT DISTRIBUTION		X
UNDER-FLOOR / SLAB POWER CONDUITS IN BUILDING (WIRING BY STARBUCKS)		X
UNDERGROUND SITE CONDUITS FOR DT, SIGNS, MENU BOARD, DETECTOR LOOP & DCB (WIRING / CABLING BY STARBUCKS)		X
SITE LIGHTING	X	
EXTERIOR BUILDING & PATIO LIGHTING	X	
DATA & PHONE SERVICE, DMARC & (2) 2" CONDUITS TO STARBUCKS SPACE		X
DT WINDOW POWER		X
DT WINDOW EXTERIOR LIGHTS (2 EACH)		X
FIRE ALARM SYSTEM		X



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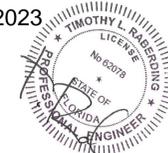
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11/06/2023



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FOR CONSTRUCTION

PROJECT NAME:  
**US 17-92 & LAKE MARY BLVD**

PROJECT ADDRESS:  
**3764 ORLANDO DRIVE  
SANFORD, FL 32773**

STORE #:	81065
PROJECT #:	98504-001
ISSUE DATE:	08-03-2023
DESIGN MANAGER:	PAULINA LOPEZ
PRODUCTION DESIGNER:	ANDY M.CLOUD
CHECKED BY:	DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**ELECTRICAL NOTES**

SCALE: AS INDICATED

SHEET NUMBER:  
**E-001**

**REVIEWED FOR CODE COMPLIANCE**  
Wayne Thorne - PX3005 11-09-23  
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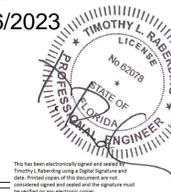
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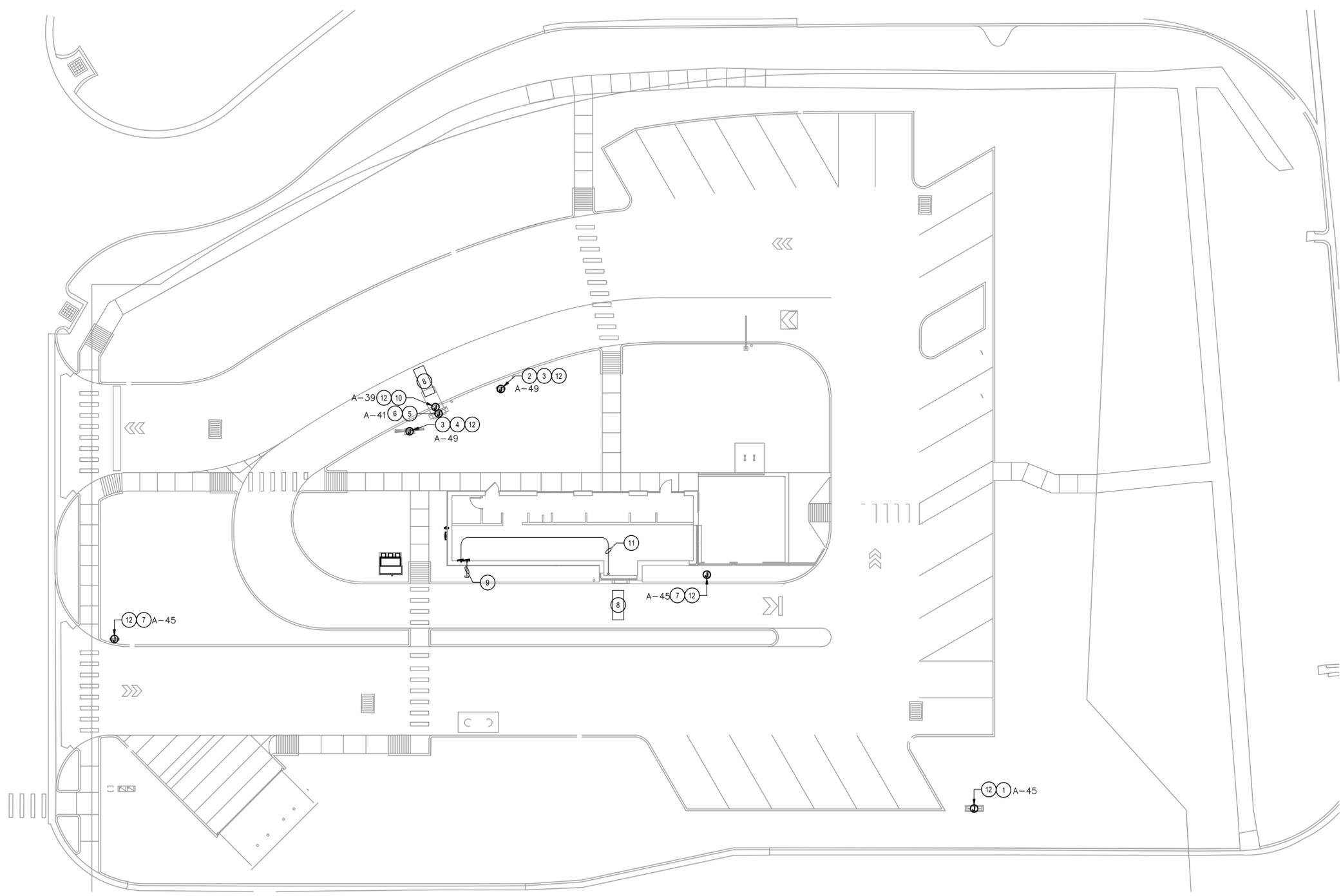
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SHEET TITLE:  
**ELECTRICAL SITE PLAN**

SCALE: AS INDICATED

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**E-004**



**KEY NOTES:** (NOT ALL NECESSARILY USED AT THIS LOCATION)

- 1 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO STARBUCKS MONUMENT SIGNAGE. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 2 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO PRE-MENU SIGN. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 3 EXISTING (1) 1" PVC CONDUIT FOR FUTURE USE TO MENU SIGN AND TO PRE-MENU SIGN.
- 4 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO MENU SIGN. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 5 PROVIDE DATA IN EXISTING (2) 1" PVC CONDUITS FROM OCS/SPEAKER POST (AKA DOS/DCB) TO DRIVE-THRU WINDOW - SEE LOW-VOLTAGE CABLE NOTES.
- 6 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT FROM OCS/SPEAKER POST (AKA DOS/DCB) TO ELECTRICAL PANEL. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 7 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO STARBUCKS DIRECTIONAL SIGNAGE. NOTE THAT UP TO THREE DIRECTIONAL SIGNS CAN BE SERVED BY A SINGLE CIRCUIT. ADDITIONAL SIGNS REQUIRE A NEW DEDICATED CIRCUIT AND CONDUIT. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 8 EXISTING (1) 3/4" PVC CONDUIT FOR EACH OF TWO TENANT-FURNISHED DETECTOR LOOP SETS IN COORDINATION WITH TENANT CONSTRUCTION MANAGER.
- 9 EXISTING (1) SPARE 1" PVC CONDUIT THRU FOUNDATION WALL OUT REAR OF BUILDING. CAPPED AND TERMINATED ABOVE CEILING. VERIFY LOCATION OF STUB UP WITH TENANT'S REPRESENTATIVE.
- 10 PROVIDE POWER IN (1) 1" PVC CONDUIT TO CANOPY UPLIGHT FROM ELECTRICAL PANEL.
- 11 PROVIDE (1) 1-1/2" CONDUIT FROM DATA RACK AT MANAGER WORKSTATION TO DRIVE-THRU BUMF.
- 12 CIRCUIT SERVING THIS DEVICE SHALL BE AUTOMATICALLY CONTROLLED. FURNISH AND INSTALL ALL CONDUIT, WIRE, CONNECTIONS, AND CONTACTORS NECESSARY TO ENSURE A FUNCTIONAL SYSTEM (SEE LIGHTING CONTROL DIAGRAM ON E-6001).
- 13 PROVIDE POWER IN EXISTING (2) 1" PVC CONDUIT TO PATIO AREA FROM ELECTRICAL PANEL.

**ELECTRICAL SITE PLAN NOTES**

- A. VERIFY FULL SCOPE OF WORK WITH LANDLORD WORK LETTER PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR THE GC'S FAILURE TO FULLY UNDERSTAND THE SCOPE.
- B. COORDINATE ALL CONDUIT ROUTING WITH ARCHITECTURAL AND CIVIL PLANS, AND OTHER TRADES.
- C. SIGN LOCATIONS ON THIS PLAN ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS SHALL BE DETERMINED FROM THE ARCHITECTURAL AND CIVIL PLANS, AND THE CONSTRUCTION MANAGER.
- D. REFER TO POWER PLAN FOR PANELBOARD LOCATIONS.
- E. FOR ALL SIGN / MENU LOCATIONS, VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE CONDUCTORS AND OVERCURRENT PROTECTION FOR A COMPLETE INSTALLATION.

**1 ELECTRICAL SITE PLAN**  
SCALE: 1"=10'-0"

**REVIEWED FOR CODE COMPLIANCE**  
Wayne Thorne - PX3005 11-09-23  
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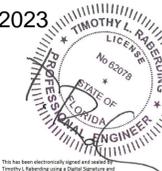
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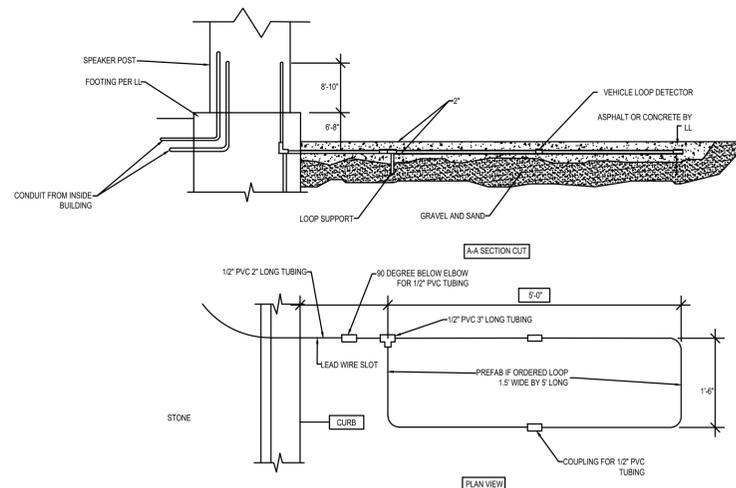
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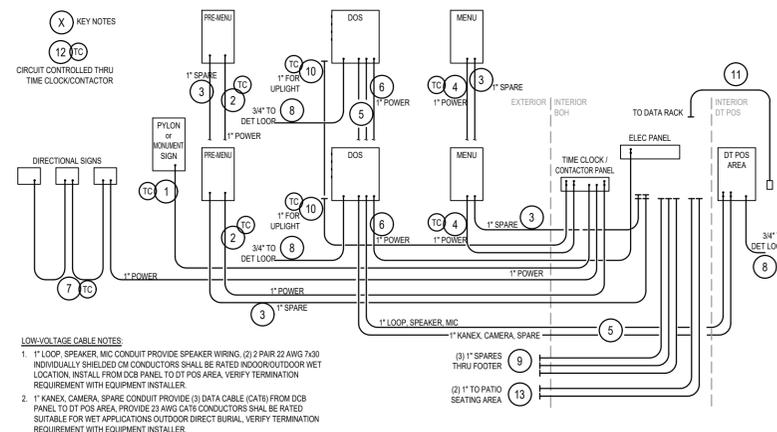
Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**ELECTRICAL SITE DETAILS**  
SCALE: AS INDICATED

SHEET NUMBER:  
**E-004.1**



**2 DT SENSOR LOOP DETAIL**  
SCALE: NTS



**1 DTE CONDUIT SCHEMATIC**  
SCALE: NTS

**LOW-VOLTAGE CABLE NOTES:**  
1. 1" LOOP, SPEAKER, MIC CONDUIT PROVIDE SPEAKER WIRING. (2) 2 PAIR 22 AWG 7x30 INDIVIDUALLY SHEATHED CM CONDUCTORS SHALL BE RATED INDOOR/OUTDOOR WET LOCATION, INSTALL FROM DCS PANEL TO DT POS AREA, VERIFY TERMINATION REQUIREMENT WITH EQUIPMENT INSTALLER.  
2. 1" KANEX, CAMERA, SPARE CONDUIT PROVIDE (3) DATA CABLE (CAT6) FROM DCS PANEL TO DT POS AREA, PROVIDE 25 AWG DATA CONDUCTORS SHALL BE RATED SUITABLE FOR WET APPLICATIONS OUTDOOR DIRECT BURIAL, VERIFY TERMINATION REQUIREMENT WITH EQUIPMENT INSTALLER.

**KEY NOTES:** (NOT ALL NECESSARILY USED AT THIS LOCATION)

- 1 (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS MONUMENT SIGNAGE. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 2 (1) 1" PVC CONDUIT FOR POWER CONNECTION TO PRE-MENU SIGN AND (1) 1" PVC CONDUIT WITH PULL STRING CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 3 (1) 1" PVC CONDUIT FOR FUTURE USE TO MENU SIGN AND TO PRE-MENU SIGN.
- 4 (1) 1" PVC CONDUIT FOR POWER CONNECTION TO MENU SIGN AND (1) 1" PVC CONDUIT WITH PULL STRING CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 5 (2) 1" PVC CONDUITS FROM OCS/SPEAKER POST (AKA DOS/DCB) TO DRIVE-THRU WINDOW - SEE LOW-VOLTAGE CABLE NOTES.
- 6 PROVIDE (1) 1" PVC CONDUIT FROM OCS/SPEAKER POST (AKA DOS/DCB) TO ELECTRICAL PANEL. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 7 (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS DIRECTIONAL SIGNAGE. NOTE THAT UP TO THREE DIRECTIONAL SIGNS CAN BE SERVED BY A SINGLE CIRCUIT. ADDITIONAL SIGNS REQUIRE A NEW DEDICATED CIRCUIT AND CONDUIT. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 8 (1) 3/4" PVC CONDUIT FOR EACH OF TWO TENANT-FURNISHED DETECTOR LOOP SETS IN COORDINATION WITH TENANT CONSTRUCTION MANAGER.
- 9 (1) SPARE 1" PVC CONDUIT THRU FOUNDATION WALL OUT REAR OF BUILDING, CAPPED AND TERMINATED ABOVE CEILING. VERIFY LOCATION OF STUB UP WITH TENANT'S REPRESENTATIVE.
- 10 (1) 1" PVC CONDUIT TO CANOPY UPLIGHT FROM ELECTRICAL PANEL.
- 11 (1) 1-1/2" CONDUIT FROM DATA RACK AT MANAGER WORKSTATION TO DRIVE-THRU BUMP.
- 12 CIRCUIT SERVING THIS DEVICE SHALL BE AUTOMATICALLY CONTROLLED. (SEE LIGHTING CONTROL DIAGRAM ON E-601).
- 13 (2) 1" PVC CONDUIT TO PATIO AREA FROM ELECTRICAL PANEL.

**ELECTRICAL SITE PLAN NOTES**

- A. VERIFY FULL SCOPE OF WORK WITH LANDLORD WORK LETTER PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR THE GC'S FAILURE TO FULLY UNDERSTAND THE SCOPE.
- B. COORDINATE ALL CONDUIT ROUTING WITH ARCHITECTURAL AND CIVIL PLANS, AND OTHER TRADES.
- C. SIGN LOCATIONS ON THIS PLAN ARE FOR REFERENCE ONLY, ACTUAL LOCATIONS SHALL BE DETERMINED FROM THE ARCHITECTURAL AND CIVIL PLANS, AND THE CONSTRUCTION MANAGER.
- D. REFER TO POWER PLAN FOR PANELBOARD LOCATIONS.
- E. FOR ALL SIGN / MENU LOCATIONS, VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE CONDUCTORS AND OVERCURRENT PROTECTION FOR A COMPLETE INSTALLATION.

**REVIEWED FOR CODE COMPLIANCE**  
Wayne Thorne - PX3005 11-09-23  
A PERMIT ISSUED SHALL BE CONSTRUED TO BE A LICENSE TO PROCEED WITH THE WORK AND NOT AS AUTHORITY TO VIOLATE, CANCEL, ALTER OR SET ASIDE ANY OF THE PROVISIONS OF THE TECHNICAL CODES, NOR SHALL ISSUANCE OF A PERMIT PREVENT THE BUILDING OFFICIAL FROM THEREAFTER REQUIRING A CORRECTION OF ERRORS IN PLANS, CONSTRUCTION OR VIOLATIONS OF THIS CODE.



SITE COPY

BC23-000692

**ELECTRICAL DESIGN PLAN NOTES**

- A. REFER TO ELECTRICAL DETAIL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
- B. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL VOLTAGE REQUIREMENTS ON ALL EQUIPMENT AND PROVIDING BUCK-BOOST TRANSFORMERS AS MAY BE NEEDED FOR CODE. ALL ARE NOT NECESSARILY INDICATED.
- C. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING AND HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) CONTRACTORS FOR ANY ADDITIONAL EQUIPMENT NEEDING POWER.
- D. ALL FUTURE EQUIPMENT NEEDED HEREIN SHALL BE PROVIDED WITH AN APPROPRIATE RECEPTACLE AND FULLY WIRED. EVEN IF NOT SPECIFICALLY INDICATED.
- E. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) BREAKERS (NOT RECEPTACLES) SHALL BE UTILIZED WHERE REQUIRED BY CODE AND AT ANY FLOOR BOXES. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS.
- F. EQUIPMENT REQUIRES CONNECTION TO THE BUILDING ELECTRICAL SYSTEM. FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, CONNECTIONS, RECEPTACLES AND OVERCURRENT PROTECTION NECESSARY TO ENSURE THE EQUIPMENT FUNCTIONS PROPERLY AND COMPLIES WITH ALL APPLICABLE LOCAL AND NATIONAL CODES. COORDINATE EQUIPMENT REQUIREMENTS WITH MANUFACTURER CUT SHEET PRIOR TO ROUGH-IN.
- G. ALL BACK BAR AND FRONT BAR J-BOXES AND OUTLETS SHALL BE SURFACE MOUNTED. PROVIDE CONDUITS AS NEEDED AND ONE (1) ADDITIONAL SPARE CONDUIT BETWEEN ALL J-BOXES FOR FUTURE ELECTRICAL REQUIREMENTS. ALL J-BOXES SHALL BE POSITIONED TO AVOID OBSTRUCTION OF ANY EQUIPMENT SUCH AS REFRIGERATORS AND DISHWASHERS.
- H. REFERENCE LANDLORD WORK LETTER FOR DIVISION OF ELECTRICAL SCOPE OF WORK AND COORDINATE WITH STARBUCKS CONSTRUCTION MANAGER.

**DEVICE SCHEDULE**

DEVICE ID	DESCRIPTION	NEMA	VOLTS	NOTES	QUANTITY
10075	CUP LABELER	5-15	120V 1P 2W	PROVIDE RECEPTACLE BELOW COUNTER	3
10075Q	CUP LABELER	5-15	120V 1P 2W	PROVIDE RECEPTACLE BELOW COUNTER	1
10267	1-DOOR UC REFRIGERATOR	5-15	120V 1P 2W	PROVIDE RECEPTACLE @ 26" AFF	7
10312	SERVER STAND	5-15	120V 1P 2W	PROVIDE (1) QUADREPLEX RECEPTACLE BELOW COUNTER FOR EVERY (4) SERVER STANDS (MAX)	1
10746	DUAL BREWER	14-50	208/120V 2P 3W	SEE DRAWING NOTE	1
10874	INSTA-HOT	5-20	120V 1P 2W	PROVIDE RECEPTACLE 26" AFF ON DEDICATED GFCI PROTECTED CIRCUIT.	1
11083	2-DOOR R-I REFRIGERATOR	5-15	120V 1P 2W	PROVIDE RECEPTACLE ON DEDICATED CIRCUIT @ 84" AFF	2
12508	BLENDER	5-15	120V 1P 2W	PROVIDE A DUPLEX FOR EACH BLENDER ON DEDICATED CIRCUIT. MOUNT DUPLEX UNDER COUNTER.	2
12618	1-DOOR UC REFRIGERATOR	5-15	120V 1P 2W	RECEPTACLE @ 26" AFF	1
13682	2-DOOR R-I FREEZER	5-20	120V 1P 2W	PROVIDE RECEPTACLE ON DEDICATED CIRCUIT @ 84" AFF	2
15186	SANITIZER	14-50R	208/120V 2P 3W		1
15749	INSTA-HOT	5-20	120V 1P 2W	PROVIDE QUAD RECEPTACLE 26" AFF ON DEDICATED GFCI PROTECTED CIRCUIT FOR INSTA-HOT AND U.C. REFRIGERATOR	3
16623	DIGITAL SCALE & GRINDER	5-15	120V 1P 2W	PROVIDE RECEPTACLE BELOW COUNTER	1

**DEVICE SCHEDULE**

DEVICE ID	DESCRIPTION	NEMA	VOLTS	NOTES	QUANTITY
18846	ICE MACHINE		208V 2P 2W	CONFIRM VOLTAGE CONFIGURATION PRIOR TO ROUGH IN. CONFIRM NEMA CONFIGURATION OF RECEPTACLE OR INSTALL J-BOX AS REQUIRED. CONDENSER UNIT WIRING RUN FROM TERMINAL BLOCK IN INDOOR UNIT TO CONDENSER IF APPLICABLE.	1
19742	ESPRESSO MACHINE	6-50	208/120V 2P 3W	VERIFY FINAL CONNECTION REQUIREMENTS WITH EQUIPMENT MFR	3
20010	1-DOOR UC REFRIGERATOR	5-15	120V 1P 2W	PROVIDE RECEPTACLE @ 26" AFF	1
20032	TURBOCHEF OVEN	6-30	208/120V 2P 3W	SEE DRAWING NOTE.	2
21679	NITROGEN GENERATOR	5-15	120V 1P 2W	PROVIDE 120V RECEPTACLE	1
X4001	SURFACE MTD HAND DRYER		120V 1P 2W	COORDINATE EXACT VOLTAGE/WIRING REQUIREMENTS WITH VENDOR AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.	1

**GROUND FAULT PROTECTION NOTES:**

PROVIDE GFCI PROTECTION AS REQUIRED BY NEC 210.8.

CIRCUITS REQUIRING GFCI PROTECTION IDENTIFIED WITH \* ON PANEL SCHEDULES (SEE E-601).

ABOVE-COUNTER RECEPTACLES THAT ARE READILY ACCESSIBLE AND WITHIN REACH OF PARTNERS SHALL BE GFCI TYPE.

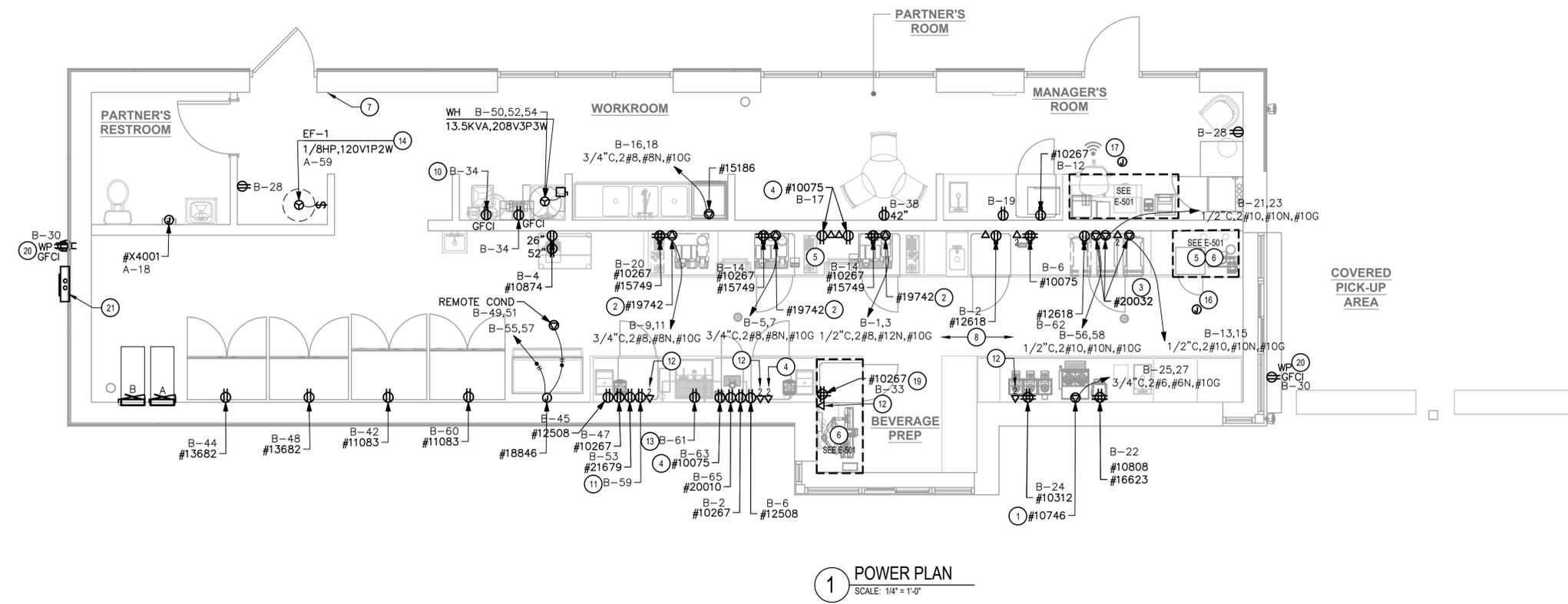
BELOW-COUNTER RECEPTACLES, OR RECEPTACLES THAT ARE DIFFICULT TO REACH OR REQUIRE MOVING EQUIPMENT TO RESET, AND ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFI CIRCUIT BREAKERS.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, CONTACT CIRCUIT BREAKER MANUFACTURER AND PROVIDE GFCI TYPE CIRCUIT BREAKER THAT SERIES RATES WITH PANEL OVER CURRENT PROTECTION IF AVAILABLE.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, AND GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE DEAD-FRONT GFCIS (IN A READILY ACCESSIBLE LOCATION) TO SERVE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE.

**KEY NOTES**

1. DUAL BREWER: PROVIDE NEMA 14-50R RECEPTACLE, HUBBELL HBL9450A SERIES OR EQUAL MOUNTED AT 48" AFF AND INSTALL NECESSARY CONDUIT, WIRE AND CONNECTIONS BACK TO SERVING PANEL. PROVIDE NEMA 14-50P ANGLED PLUG AND CORD, HUBBELL HBL9452C SERIES OR EQUAL.
2. ESPRESSO MACHINE: PROVIDE NEMA 6-50R RECEPTACLE, HUBBELL 9367 SERIES OR EQUAL MOUNTED AT 30" AFF AND INSTALL NECESSARY CONDUIT, WIRE AND CONNECTIONS BACK TO SERVING PANEL. PROVIDE NEMA 6-50P ANGLED PLUG, HUBBELL HBL9388 SERIES OR EQUAL.
3. WARMING OVEN: PROVIDE NEMA 6-30R RECEPTACLE MOUNTED AT 26" AFF AND INSTALL NECESSARY CONDUIT, WIRE AND CONNECTIONS BACK TO SERVING PANEL.
4. CUP LABELER OR MOBILE ORDER PRINTER: PROVIDE RECEPTACLE AND BACKBOX FOR DATA OUTLET MOUNTED AT 26" AFF. ROUTE 3/4" CONDUIT FROM BACKBOX TO DATA RACK NEAR MANAGER'S WORK STATION. LABEL CONDUIT FOR DATA CABLING AND PROVIDE PULL STRING FROM END TO END.
5. FLOOR POWER/DATA: SEE PENETRATION PLAN FOR EXACT DIMENSIONING OR LOCATION.
6. POS: FURNISH AND INSTALL DOUBLE-DUPLEX MOUNTED AT 18" AFF PROVIDE DEDICATED GROUND WIRE BACK TO SERVING PANEL. INSTALL (1) J-BOX FOR DATA OUTLET AND (1) J-BOX FOR PHONE OUTLET MOUNTED AT 18" AFF. SEE DETAILS ON E-501.
7. ALARM KEYPAD AND EMERGENCY CALL PHONE: MOUNT AT 54" AFF. ROUTE CONDUIT IN WALL FROM J-BOX AND STUB ABOVE CEILING.
8. ALL BACK BAR AND FRONT BAR J-BOXES AND OUTLETS SHALL BE SURFACE MOUNTED. PROVIDE CONDUITS AS NEEDED AND (1) ADDITIONAL SPARE CONDUIT BETWEEN ALL J-BOXES FOR FUTURE ELECTRICAL REQUIREMENTS. ALL J-BOXES SHALL BE POSITIONED TO AVOID OBSTRUCTION OF ANY EQUIPMENT SUCH AS REFRIGERATORS AND DISHWASHERS.
9. PROVIDE "SHOW WINDOW" RECEPTACLE FLUSH MOUNTED IN CEILING WITHIN 18" OF TOP OF WINDOW, 1 PER 12 LF OF WINDOW OR MAJOR FRACTION THEREOF (NEC 210.62).
10. WATER FILTER SYSTEM: PROVIDE GFCI RECEPTACLE MOUNTED AT 78" AFF IF APPLICABLE.
11. RECEPTACLE FOR FUTURE USE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE.
12. DATA OUTLET FOR FUTURE USE: PROVIDE BACKBOX FOR DATA OUTLET MOUNTED AT 26" AFF. ROUTE 3/4" CONDUIT FROM BACKBOX TO DATA RACK NEAR MANAGER'S WORK STATION. LABEL CONDUIT FOR DATA CABLING AND PROVIDE PULL STRING FROM END TO END.
13. PROVIDE RECEPTACLE FOR RINSE SINK MOUNTED AT 26" AFF. COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
14. EXHAUST FAN: SHALL BE CONNECTED TO EMS/LIGHTING CONTROL PANEL: FAN TO RUN CONTINUOUSLY DURING OCCUPIED MODE (SEE DETAIL 5 ON E-502). CONFIRM EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
15. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT(S) OF ALL CONVENIENCE RECEPTACLES WITH OWNER'S REPRESENTATIVE.
16. PROVIDE 4-SQUARE J-BOX FOR FRONT OF HOUSE STROBE LOCATION; SEE DETAIL ON E-501.
17. PROVIDE 4-SQUARE J-BOX FOR BACK OF HOUSE STROBE LOCATION; FIELD
18. PROVIDE DUPLEX, GFCI TYPE RECEPTACLE FOR RECIRC PUMP. COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
19. PROVIDE DOUBLE DUPLEX RECEPTACLE FOR UNDER COUNTER REFRIGERATOR AND FUTURE USE. SEE DETAIL ON E-501.
20. SEE SHEET E-102 FOR SWITCHING DESIGNATIONS.
21. COPIES AND ISSUANCE OF PERMIT PRESENTS LOCATION OF EXISTING SERVICE ENTRANCE(DISCONNECT AND METERING) REQUIRING A CORRECTION OF ERRORS IN PLANS, CONSTRUCTION OR VIOLATIONS OF THIS CODE.



**1 POWER PLAN**  
SCALE: 1/4" = 1'-0"

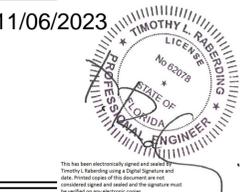


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Professional Engineer



11/06/2023

**FOR CONSTRUCTION**

PROJECT NAME:  
**US 17-92 & LAKE MARY BLVD**

PROJECT ADDRESS:  
**3764 ORLANDO DRIVE  
SANFORD, FL 23773**

STORE #: 81065  
PROJECT #: 98504-001  
ISSUE DATE: 08-03-2023  
DESIGN MANAGER: PAULINA LOPEZ  
PRODUCTION DESIGNER: ANDY MCLOUD  
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**ELECTRICAL DESIGN PLAN**  
SCALE: AS INDICATED

SHEET NUMBER:  
**E-101**

SITE COPY **BC23-000692**

**TRACK SCHEDULE**

DESIGN ID	QUANTITY	DESCRIPTION	RESP.	MODEL	LAMP	MAX WATTS
12948	4	TRACK - WITH CONNECTORS - 16FT - BLACK	GC-SB	TRACK: (4) JUNO R4BL END FEED CONN: (1) JUNO R38BL MINI CONNECTOR: (3) JUNO R23BL ADJUSTABLE CONN: (1) JUNO R20BL		0
15058	2	TRACK - WITH CONNECTORS - 6FT 183CM - BLACK	GC-SB	TRACK: (1) JUNO R4BL & (1) R2BL END FEED CONN: (1) JUNO R38BL MINI CONNECTOR: (3) JUNO R23BL ADJUSTABLE CONN: (1) JUNO R20BL		0
21779	22	TRACK - LED FIXTURE WITH SNOOT - 3IN 75MM - BLACK - 1100LM FLOOD	GC-SB	LEDRA #350440-13LM-30K-90CRI-38DEG-120-ELV-BK 350440/SNOOTBK	INTEGRAL LED	14

**LIGHTING FIXTURE SCHEDULE 'L'**

DESIGN ID	QUANTITY	DESCRIPTION	RESP.	MODEL	LAMP	MAX WATTS
19044	3	LED EXIT SIGN WITH EMERGENCY LIGHT - WHITE AND RED	GC-SB	NAVILITE #NXPCL3RWH	INTEGRAL LED	5
19047	1	LED EXIT SIGN WITH EMERGENCY LIGHT - BLACK AND GREEN	GC-SB	NAVILITE #NXPCL3GBL	INTEGRAL LED	5
19056	1	LED EMERGENCY LIGHT DOUBLE - WHITE	GC-SB	CONFIRM MODEL NUMBER WITH VENDOR	INTEGRAL LED	5
20748	1	SCONCE - KUZCO PLUTO TRIPLE - CHROME	VD	CONFIRM MODEL NUMBER WITH VENDOR	INTEGRAL LED	15
21422	1	SOFT CONE PENDANT	GC-SB	REJUVINATION #A2373 - UNGLAZED TOAST-OIL-BUBBED BRONZE	(1) 6W	6
21783	7	TROFFER - LED RECESSED - 24X48IN - 600X1200MM - WHITE - 3900LM	GC-SB	ILP #PAN24-36WLED-U-35	INTEGRAL LED	36
X7001	17	CAN - LED ADJUSTABLE RECESSED - 3IN 75MM - BLACK - 800LM FLOOD	GC-SB	LEDRA #NU3-RA-SW-13LM/12W-27K-90CRI-S35-120-DIM10-NC-BK-BK	INTEGRAL LED	12

**LIGHTING DESIGN PLAN NOTES**

- ALL FIXTURES IN WORK ROOM, BACK AND FRONT LINE, ABOVE CONDIMENT CART, AND ANY OTHER AREAS WHERE EXPOSED FOOD, CLEAN EQUIPMENT OR UTENSILS, OR UNWRAPPED SINGLE SERVICE ITEMS WILL BE EXPOSED, SHALL HAVE SHATTERPROOF LAMPS IF THE FIXTURE IS NOT LENSED. ARCHITECT OF RECORD TO INCLUDE APPROPRIATE LAMPS / FIXTURES ON DRAWINGS AND SCHEDULES, AND COMPLY WITH ANY ADDITIONAL JURISDICTIONAL LIGHTING REQUIREMENT.
- PROVIDE GROMMET AT ALL CEILING PENETRATIONS FOR FIXTURES/SUPPORTS.
- CENTER EMERGENCY/EXIT LIGHTS ABOVE DOORS, UNLESS OTHERWISE NOTED.
- ADJUST FOCUS OF ALL TRACK AND RECESSED DIRECTIONAL LIGHTING TO FULLY ILLUMINATE ALL ARTWORK, MENU BOARDS, AND MERCHANDISE BAYS.
- IF PENDANT CYLINDERS CAN SUSPENDED LENGTH EXCEEDS 48" (1220MM) FROM CEILING, REPLACE WITH SURFACE MOUNTED CYLINDER CANS AND SUSPEND WITH GENERAL CONTRACTOR SUPPLIED CONDUIT AND J-BOX TO DIMENSIONED HEIGHT.
- REFER TO POWER PLAN FOR PANELBOARD LOCATIONS.

**RESPONSIBILITY LEGEND**

SB	STARBUCKS
GC	GENERAL CONTRACTOR
VD	VENDOR
LL	LANDLORD



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Timothy L. Rabarding, PE  
Professional Engineer

11/06/2023



**KEY NOTES**

- ELECTRICAL CONTRACTOR TO VERIFY THAT A WEATHERPROOF SWITCH IS PROVIDED BY THE SIGN COMPANY. IF NOT ONE MUST BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE DIRECT ACCESSIBLE POWER FOR ALL ELECTRICAL SIGNAGE WITHIN 6'-0" OF THE SIGN LOCATION PROVIDE CONDUIT AND STUB THRU WALL, J-BOX AND ANY REQUIRED O.C.P. CIRCUIT THROUGH NEW LIGHTING CONTROL PANEL (SEE DETAILS ON E-502 AND E-601).
- SWITCH BANK LOCATION: SEE CONTROL ZONE DETAIL ON THIS SHEET AND LIGHTING CONTROL DIAGRAM ON E-601. SWITCHES SHALL SERVE AS LOCAL OFF SWITCH.
- PROVIDE 4A CURRENT LIMITING DEVICE (CLD) #RCLF11WH-TCL4WH. ALL SALES/SEATING TRACK SHALL BE CIRCUITED VIA THIS CLD.
- LED LIGHT STRIP: REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL MOUNTING INFORMATION.
- PROVIDE 120V CONNECTION TO MOP SIGNAGE; CONTROL WITH ACCENT LIGHTS.
- WALL MOUNTED OCCUPANCY SENSOR (LEVITON IPS02 1LW) SHALL CONTROL THE LIGHTS IN THIS ROOM. SET FOR 5 MINUTE TIME DELAY.
- EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CIRCUITED TO LOCAL CIRCUIT AHEAD OF ANY CONTROLS.
- LOCATION OF LIGHTING CONTROL PANEL (SEE CONTROL ZONE SCHEDULE THIS SHEET AND DETAILS ON E-502 AND E-601).
- EXISTING EXTERIOR NORMAL AND EMERGENCY EGRESS LIGHTING TO REMAIN. MAINTAIN EXISTING CIRCUITING AND CONTROLS.

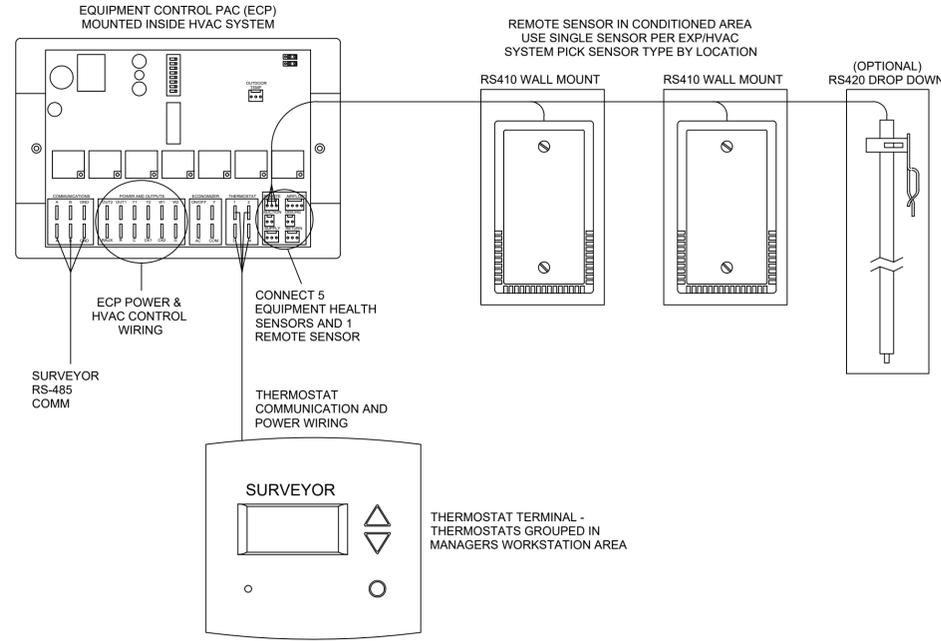
**CONTROL ZONE SCHEDULE**

a - BACK ROOM/PREP AREA	\$ <sup>a</sup>	\$ <sup>b</sup>	\$ <sup>c</sup>	\$ <sup>d</sup>	\$ <sup>e</sup>	\$ <sup>f</sup>
b - BACKBAR/PREP TRACK LIGHTS*						
c - WORK ROOM LIGHTS						
d - BACK OF HOUSE						
e - EXTERIOR RECEPTACLES						
f - 2 HR MAX TIMED OVERRIDE						

PROVIDE COMPATIBLE DIMMER FOR SALES/SEATING TRACKS TO MEET DIMMER REQUIREMENTS WITH VENDOR 11-09-23  
A PERMIT ISSUED SHALL BE CONSTRUED TO BE A LICENSE TO PROCEED WITH THE WORK AND NOT AS A GUARANTEE OF THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS FROM THE BUILDING OFFICIAL FROM THE RELEVANT JURISDICTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS FROM THE RELEVANT JURISDICTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS FROM THE RELEVANT JURISDICTION.  
**REVISIONS**  
1. LIGHTING SWITCH BANK DETAIL  
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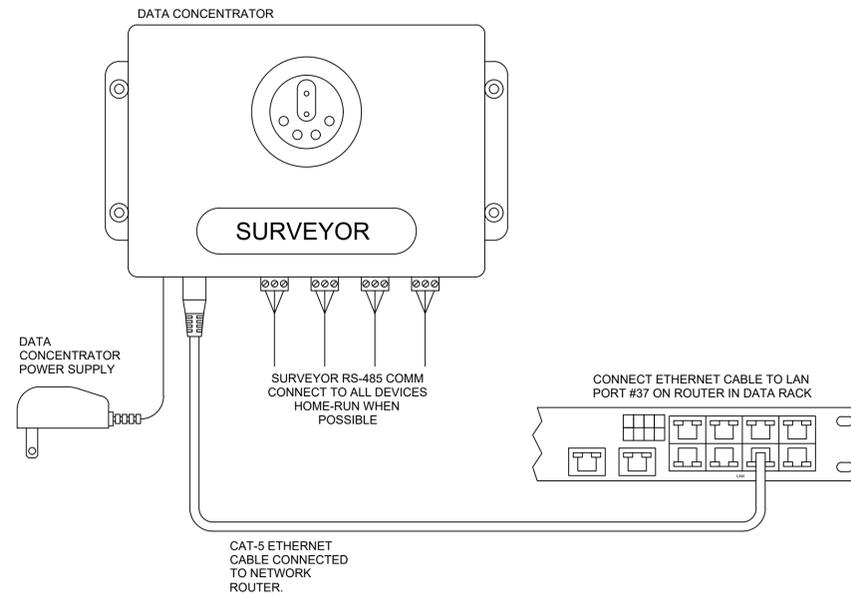
- NOTES:  
 1. OUTDOOR TEMPERATURE SENSOR CONNECTED TO ONE ECP ONLY PER LOCATION. FACE NORTH WHEN POSSIBLE.  
 2. SEE GENERAL NOTES 7 AND 8 FOR REMOTE SENSOR MOUNTING LOCATION DETAILS.

**3 Venstar EMS - No Lighting Control - HVAC Controls**  
 Scale: 6" = 1'-0"

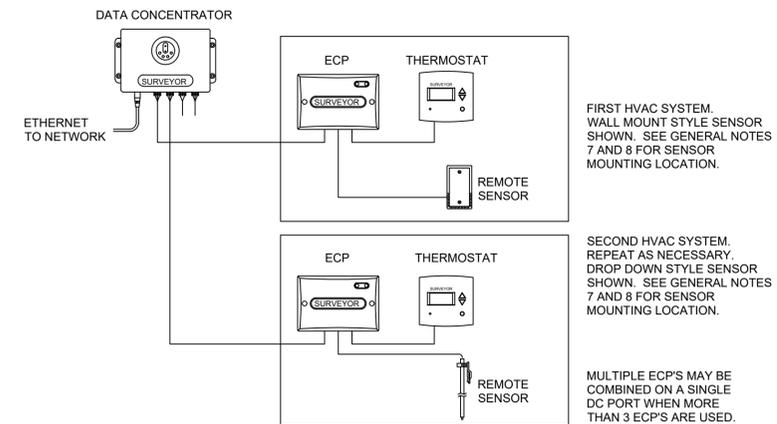
**GENERAL NOTES**

1. SURVEYOR ENERGY MANAGEMENT SYSTEM HARDWARE IS SUPPLIED BY STARBUCKS.
2. DRAWING FOR GENERAL INFORMATION, DESIGN INTENT, AND COORDINATION ONLY.
3. LOCAL BUILDING CODES TAKE PRECEDENCE OVER THIS DOCUMENT.
4. NOT ALL WIRING IS SHOWN ON THIS DRAWING. FOR CLARITY, ONLY ONE EXAMPLE OF EACH TYPE OF DEVICE IS SHOWN.
5. REFER TO THE SURVEYOR INSTALLATION INSTRUCTIONS FOR EACH COMPONENT FOR DETAILED WIRING AND ADDITIONAL CRITICAL INFORMATION.
6. CAUTION! INSTALLATION REQUIRES THE REMOVAL OF SAFETY COVERS AND EXPOSE THE INSTALLER TO HIGH VOLTAGE AND ELECTRICAL HAZARDS. USE OF A LICENSED ELECTRICIAN IS REQUIRED. FOLLOW ALL APPROPRIATE SAFETY PRECAUTIONS. ADDITIONAL SAFETY INFORMATION IS IN THE SURVEYOR INSTALLATION MANUALS.
7. WALL MOUNTED REMOTE SENSOR IS MOUNTED ON WALL 4 TO 5 FT AFF. AVOID AREAS WITH DIRECT AIRFLOW FROM SUPPLY REGISTERS.
8. USE A DROP DOWN SENSOR IF A WALL MOUNT SENSOR CANNOT BE INSTALLED DUE TO SPACE CONSTRAINTS (SEE NOTE 7 FOR REQUIREMENTS). THE SENSOR CLIPS TO THE T-BAR GRID AND ADJUSTED SO THE BOTTOM OF THE SENSOR IS 8 TO 9 FT AFF. ALLOW 2 FT OF CLEARANCE FROM METRO SHELVING AND AVOID AREAS WITH DIRECT AIRFLOW FROM SUPPLY REGISTERS.
9. FOR SURVEYOR EMS TECHNICAL SUPPORT AND SYSTEM COMMISSIONING, CONTACT SURVEYOR TECHNICAL SUPPORT, (855) 647-7660, OPTION 1 OR EMAIL INSTILLSUPPORT@VENSTAR.COM. HOURS 6:00 AM TO 8:00 PM PACIFIC, MON-FRI.

SURVEYOR EMS COMPONENTS			
VENSTAR PART	SBUX ITEM #	DESCRIPTION	QUANTITY
DC400	011029485	DATA CONCENTRATOR	1
OTS400	011029487	OUTDOOR TEMPERATURE SENSOR	1
ECP400	011029489	EQUIPMENT CONTROL PAC	1 PER HVAC
CT414	011029490	COMMUNICATING THERMOSTAT	1 PER HVAC
SP400	011029491	SENSOR PAC	1 PER HVAC
RS410	011029492	WALL MOUNT REMOTE SENSOR	1 PER FOH HVAC
OPTIONAL → RS420	011050767	NARROW DROP DOWN SENSOR	1 PER BOH HVAC



**2 Venstar EMS - No Lighting Control - Data Concentrator**  
 Scale: 6" = 1'-0"



**1 Venstar EMS - No Lighting Control - Basic Low Voltage Wire Runs**  
 Scale: 6" = 1'-0"



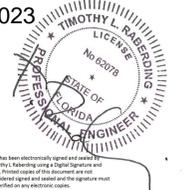
**STARBUCKS**  
 2401 UTAH AVENUE SOUTH  
 SEATTLE, WASHINGTON 98134  
 (206) 318-1575

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**Design Forum Architects Inc.**  
 2056 Byers Rd  
 Miami, FL 33134  
 Tel: (844) 804-7700  
 Donald J. Rethman  
 Architect in Charge

**Design Forum Engineering**  
 2056 Byers Rd  
 Miami, FL 33134  
 Tel: (844) 804-7700  
 Timothy L. Rabarding, PE  
 Professional Engineer

11/06/2023



FOR CONSTRUCTION

PROJECT NAME:  
**US 17-92 & LAKE MARY BLVD**  
 PROJECT ADDRESS:  
**3764 ORLANDO DRIVE  
 SANFORD, FL 23773**

STORE #: 81065  
 PROJECT #: 98504-001  
 ISSUE DATE: 08-03-2023  
 DESIGN MANAGER: PAULINA LOPEZ  
 PRODUCTION DESIGNER: ANDY M'CLOUD  
 CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**ELECTRICAL DETAILS - ENERGY MANAGEMENT SYSTEM**  
 SCALE: AS INDICATED

SHEET NUMBER:  
**E-502**

**REVIEWED FOR CODE COMPLIANCE**  
 Wayne Thorne - PX3005 11-09-23  
 A PERMIT ISSUED SHALL BE CONSTRUED TO BE A LICENSE TO PROCEED WITH THE WORK AND NOT AS AUTHORITY TO VIOLATE, CANCEL, ALTER OR SET ASIDE ANY OF THE PROVISIONS OF THE TECHNICAL CODES. NOR SHALL ISSUANCE OF A PERMIT PREVENT THE BUILDING OFFICIAL FROM THEREAFTER REQUIRING A CORRECTION OF ERRORS IN PLANS, CONSTRUCTION OR VIOLATIONS OF THIS CODE.

**SANFORD DEPARTMENT**

SITE COPY **BC23-000692**



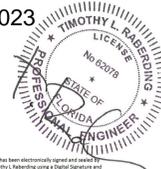
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11/06/2023



This has been electronically signed and sealed and the signature must be considered signed and sealed and the signature must be considered signed and sealed.

FOR CONSTRUCTION

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**US 17-92 & LAKE MARY BLVD**

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PRODUCTION DESIGNER: ANDY MCLOUD  
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**PANELBOARD SCHEDULES**  
SCALE: AS INDICATED

SHEET NUMBER:  
**E-601**

PROVIDE ARC-FLASH HAZARD WARNINGS TO METER ENCLOSURES, PANELBOARDS, DISCONNECTING MEANS, ETC PER NEC 110.16 AND 110.21(B)

B											
ROOM MOUNTING RECESSED FED FROM		VOLTS 208Y/120V 3P 4W BUS AMPS 225 NEUTRAL 100%			AIC MAIN BKR MLO LUGS STANDARD			SERIES RATED		EXISTING MAIN BKR MLO FEEDTHRU	
CKT #	CIRCUIT DESCRIPTION	A	B	C	CKT BKR	CKT BKR	A	B	C	CIRCUIT DESCRIPTION	CKT #
1	* ESPRESSO	3.25			30/2	20/1	0.96			* U.C. REFRIGERATOR	2
3			3.25			20/1	1.48			* INSTA-HOT, PREP TABLE	4
5	* LEFT ESPRESSO			3.25	40/2	20/1			1.56	* BLENDER, * CUP LABELER	6
7		3.25				20/1	0			SPARE	8
9	* RIGHT ESPRESSO		3.25		40/2	20/1			0	SPARE	10
11				3.25		20/1			0.48	* U.C. REFRIGERATOR	12
13	* RIGHT TURBOCHEF	3			30/2	20/1	0.96			* U.C. REFRIGERATOR	14
15			3			40/2			3.9	* SANITIZER	16
17	* CUP LABELER			0.4	20/1				3.9		18
19	* FUTURE EQUIPMENT	0.18			20/1	20/1	0.48			* U.C. REFRIGERATOR	20
21	* RIGHT TURBOCHEF		3		30/2	20/1			0.72	* SCALE&GRINDER	22
23				3		20/1			0.09	* SERVER STAND	24
25	* DUAL BREWER	4.17			50/2	20/1	0.72			* MANAGER'S DESK - PC, PRINTER	26
27			4.17			20/1	0.36			* CONVENIENCE RECEIPT	28
29	* DT POS - DED. REC			0.36	20/1	20/1		0.36		* EXTERIOR RECEIPT	30
31	* DT POS REC - FUTURE	0.36			20/1	20/1	0			SPARE	32
33	* U.C. REFRIGERATOR, FUTURE		0.98		20/1	20/1	0.36			* RCP, WATER FILTER	34
35	* DT COMMUNICATIONS			0.72	20/1	20/1			0	SPARE	36
37	* DT TIMER	0.72			20/1	20/1	0.18			* PARTNER WORKSTATION	38
39	* LEFT POS - DED. REC		0.18		20/1	20/1			0	SPARE	40
41	* RIGHT POS - DED. REC			0.18	20/1	20/1		1.08		* DOUBLE DOOR REFRIGERATOR	42
43	* POS REC - MISC EQUIPMENT	0.36			20/1	20/1	1.3			* DOUBLE DOOR FREEZER	44
45	* BLENDER		1.2		20/1	20/1			0	SPARE	46
47	* U.C. REFRIGERATOR			0.48	20/1	20/1			1.3	* DOUBLE DOOR FREEZER	48
49	* REMOTE CONDENSOR	0.144			20/2	50/3	4.5			* WH	50
51			0.144					4.5			52
53	* NITRO GENERATOR			0.72	20/1				4.5		54
55	* ICE MACHINE	1.8			20/2	30/2	0			* FUTURE EQUIPMENT	56
57			1.8						0		58
59	* FUTURE EQUIPMENT			0.36	20/1	20/1			1.08	* DOUBLE DOOR REFRIGERATOR	60
61	* SINK	0.18			20/1	20/1	0.48			* U.C. REFRIGERATOR	62
63	* CUP LABELER		0.2		20/1	20/1			0	SPARE	64
65	* U.C. REF			0.48	20/1	20/1			0	SPARE	66
							27	32.5	27.6	TOTAL CONNECTED KVA	
							229	271	232	TOTAL CONNECTED AMPS	

LOAD TYPE	CONN. KVA	DEMAND KVA	LOAD TYPE	CONN. KVA	DEMAND KVA
LIGHTING	0	0	CONTINUOUS	0	0
LARGEST MOTOR	13.5	16.9	HEATING	0	0
OTHER MOTORS	0	0	NONCONTINUOUS	0	0
RECEPTACLES	8.52	8.52	KITCHEN EQUIP	64.7	42.1
			NONCOIN/DIVERSE	0	(N/A)
			TOTAL KVA:	87	67.8
			TOTAL BALANCED DEMAND AMPS:	188	

NOTES:  
\* - PROVIDE GFCI PROTECTION (SEE NOTE)  
\*\* - CIRCUIT CONTROLLED VIA CONTACTOR / \*\*\* - EXISTING CIRCUIT TO REMAIN

THIS SHALL BE A SERIES-RATED SYSTEM BETWEEN THE MAIN CIRCUIT BREAKER AND THE BRANCH BREAKERS WITHIN THE PANELS TO ALLOW FOR 10 KAIC RATED BREAKERS TO BE UTILIZED.

NOTE: PANELS ARE BY LL. CONTRACTOR SHALL PROVIDE ALL BREAKERS AS SHOWN ON THESE SCHEDULES!

A											
ROOM MOUNTING RECESSED FED FROM		VOLTS 208Y/120V 3P 4W BUS AMPS 600 NEUTRAL 100%			AIC MAIN BKR MLO LUGS FEEDTHRU			EXISTING MAIN BKR MLO FEEDTHRU			
CKT #	CIRCUIT DESCRIPTION	A	B	C	CKT BKR	CKT BKR	A	B	C	CIRCUIT DESCRIPTION	CKT #
1	***RTU-1 (EXIST)	7.68			90/3	20/1	0			SPARE	2
3			7.68			20/1		0		SPARE	4
5				7.68		20/1		0		SPARE	6
7	SPARE	0			20/1	20/1	0			SPARE	8
9	SPARE		0		20/1	20/1		0		SPARE	10
11	SPARE			0	20/1	20/1		0.12		EMERG/EXIT LIGHTING	12
13	SPARE	0			20/1	20/1	0			SPARE	14
15	SPARE		0		20/1	20/1		0.25		LIGHTING CONTROLS	16
17	SPARE			0	20/1	20/1		1.9		HAND DRYER	18
19	SPARE	0			20/1	20/1	0.26			** DRIVE-THRU SIGN	20
21	SPARE		0		20/1	20/1		0.497		**BACK BAR/PREP AREA LIGHTING	22
23	SPARE			0	20/1	20/1		0.365		**BOH & RESTROOM LIGHTING	24
25	SPARE	0			20/1	20/1	0.96			** WORDMARK SIGN	26
27	SPARE		0		20/1	20/1		0.26		** DRIVE-THRU SIGN	28
29	SPARE			0	20/1	20/1		0.96		** WORDMARK SIGN	30
31	SPARE	0			20/1	20/1	0.26			** LOGO SIGN	32
33	SPARE		0		20/1	225/3	27			PANEL B	34
35	SPARE			0	30/1				32.5		36
37	SPARE	0			20/1			27.6			38
39	** UPLIGHT		0.2		20/1	30/2		0.35		IRRIGATION PUMP (EXIST)	40
41	** DT DIGITAL ORDER SCREEN			0.26	20/1			0.35			42
43	***TIME CLOCK POWER	0.4			20/1	20/1	0.445			**/**SITE LIGHTING	44
45	***DRIVE-THRU SIGN, MONUMENT SIGN		1.52		20/1	20/1		0.534		**/**SITE LIGHTING	46
47	SPARE			0	20/1	20/1		0.72		**/**PATIO REC	48
49	***DT MENU BOARD	0.52			20/1	20/1	0.5			**DRIVE THRU DSC/DCB #1	50
51	***DRIVE THRU CANOPY		0.4		20/1	20/1		0		SPARE	52
53	***EXTERIOR BUILDING LIGHT			0.8	20/1	20/1		0		SPARE	54
55	***DRIVE THRU WINDOW	0.5			20/1	20/1	0			SPARE	56
57	***DRIVE THRU WINDOW	0.5			20/1	20/1	0			SPARE	58
59	*** EF-1		0.468		20/1	20/1		0		SPARE	60
61	DUCT SMOKE DETECT	0.4			20/1	20/3	0			SURGE SUPPRESSOR	62
63	***RTU SERVICE RECEIPTS (EXIST)		0.36		20/1			0			64
65	***DRIVE THRU DSC/DCB #2			0.5	20/1			0			66
							39.5	39.5	46.6	TOTAL CONNECTED KVA	
							330	332	388	TOTAL CONNECTED AMPS	

LOAD TYPE	CONN. KVA	DEMAND KVA	LOAD TYPE	CONN. KVA	DEMAND KVA
LIGHTING	8.1	10.1	CONTINUOUS	0.65	0.813
LARGEST MOTOR	23	5.76	HEATING	0	0
OTHER MOTORS	16.1	16.1	NONCONTINUOUS	2.16	2.16
RECEPTACLES	10.6	10.3	KITCHEN EQUIP	64.7	42.1
			NONCOIN/DIVERSE	0	(N/A)
			TOTAL KVA:	126	111
			TOTAL BALANCED DEMAND AMPS:	307	

NOTES:  
\* - PROVIDE GFCI PROTECTION (SEE NOTE)  
\*\* - CIRCUIT CONTROLLED VIA CONTACTOR / \*\*\* - EXISTING CIRCUIT TO REMAIN

INSTALL LOCK OFF PROVISIONS FOR CIRCUIT BREAKERS SERVING HAND DRYERS PER NEC 422.31(B)

**GROUND FAULT PROTECTION NOTES:**

PROVIDE GFCI PROTECTION AS REQUIRED BY NEC 210.8.

CIRCUITS REQUIRING GFCI PROTECTION IDENTIFIED WITH \* ON PANEL SCHEDULES.

ABOVE-COUNTER RECEPTACLES THAT ARE READILY ACCESSIBLE AND WITHIN REACH OF PARTNERS SHALL BE GFCI TYPE.

BELOW-COUNTER RECEPTACLES, OR RECEPTACLES THAT ARE DIFFICULT TO REACH OR REQUIRE MOVING EQUIPMENT TO RESET, AND ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFI CIRCUIT BREAKERS.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, CONTACT CIRCUIT BREAKER MANUFACTURER AND PROVIDE GFCI TYPE CIRCUIT BREAKER THAT SERIES RATES WITH PANEL OVER CURRENT PROTECTION IF AVAILABLE.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, AND GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE DEAD-FRONT GFCIS (IN A READILY ACCESSIBLE LOCATION) TO SERVE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE.

**CLOSE-OUT NOTES:**

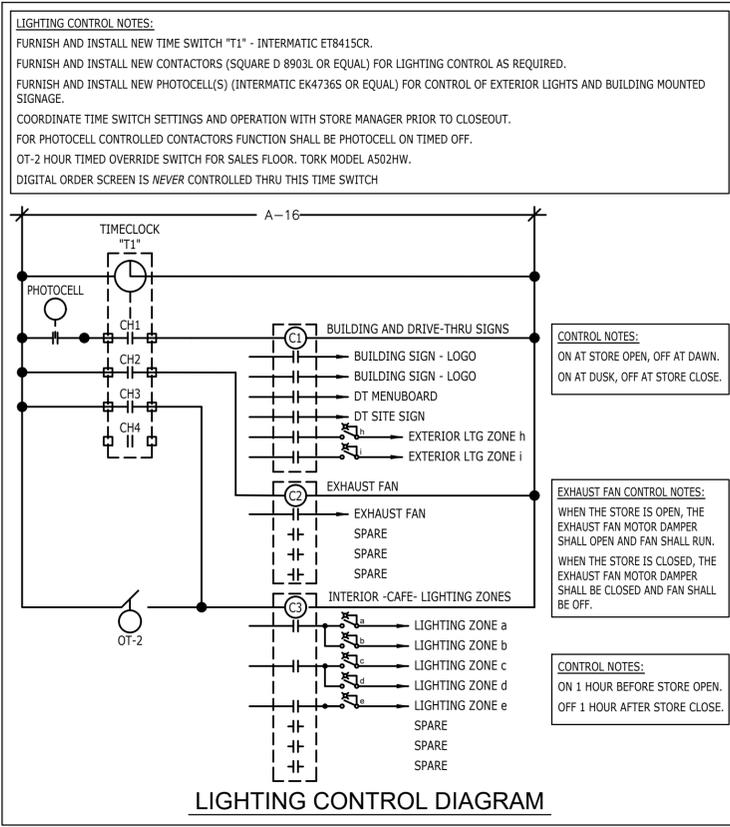
A. WITHIN 30 DAYS OF DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

B. UPON COMPLETION OF PROJECT, PROVIDE OPERATION AND MAINTENANCE MANUALS TO OWNER. THE MANUALS SHALL CONTAIN, AT A MINIMUM, THE FOLLOWING INFORMATION:

1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

C. PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE TO THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.



**MINIMUM WIRE & CONDUIT SIZES FOR CIRCUIT BREAKERS AND FUSES**

AMPS	FEEDER SIZE	GROUND	CONDUIT
15	#12	#12	3/4"
20	#12	#12	3/4"
25	#10	#10	3/4"
30	#10	#10	3/4"
35	#8	#10	3/4"
40	#8	#10	3/4"
45	#8	#10	3/4"
50	#8	#10	3/4"
60	#6	#10	3/4"
70	#4	#8	1"
80	#4	#8	1"
90	#3	#8	1-1/4"
100	#3	#8	1-1/4"

PROVIDE THE FOLLOWING QUANTITIES:

1 POLE CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND	3 POLE CIRCUIT - 3 HOT, 1 GROUND
2 POLE CIRCUIT - 2 HOT, 1 GROUND	1 POLE IG CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND, 1 ISOLATED GROUND.

**NOTES:**

1. ALL CONDUCTORS SHALL BE COPPER.
2. ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR INSTALLED.
3. CONDUIT BELOW GRADE OUTSIDE OF BUILDING SHALL BE 1" MINIMUM.
4. SIZING OF CONDUCTORS SHALL BE ALTERED FOR DERATING PER N.E.C. OR VOLTAGE DROP CONSIDERATIONS.
5. SEE RISER DIAGRAM FOR SIZING OF CIRCUITS GREATER THAN 100A.
6. USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP, EQUIPMENT GROUND SHALL BE INCREASED PROPORTIONATELY PER NEC 250.122 (B).
7. WHERE MC CABLE IS ALLOWED BY AUTHORITY HAVING JURISDICTION THE CONDUCTORS FOR MC CABLE SHALL BE THHN. JACKET SHALL BE THE MANUFACTURER'S STANDARD SIZE FOR CONDUCTORS UTILIZED.

**REVIEWED FOR CODE COMPLIANCE**  
Wayne Thorne - PX3005 11-09-23  
A PERMIT ISSUED SHALL BE CONSTRUED TO BE A LICENSE TO PROCEED WITH THE WORK





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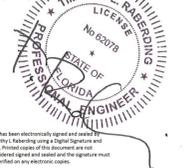
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11/06/2023



PROJECT NAME:
US 17-92 & LAKE MARY
BLVD

PROJECT ADDRESS:
3764 ORLANDO DRIVE
SANFORD, FL 32733

STORE #: XXXXX
PROJECT #: 98504-001
ISSUE DATE: 03-14-2023
DESIGN MANAGER: PAULINA LOPEZ
PRODUCTION DESIGNER: ANDY M.CLOUD
CHECKED BY: DONALD RETHMAN

Table with 3 columns: Rev, Date, Description. Revision Schedule header.

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN-001

COMcheck Software Version COMcheckWeb Inspection Checklist. Section 405.2.1, 405.2.2, 405.2.3. Includes compliance checkboxes and comments.

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate. Project Title: SBX-US 17-92 and Lake Mary Blvd-FL. Includes tables for Allowed Interior Lighting Power and Proposed Interior Lighting Power.

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Statement. Project Title: SBX-US 17-92 and Lake Mary Blvd-FL. Includes tables for Allowed Interior Lighting Power and Proposed Interior Lighting Power.

COMcheck Software Version COMcheckWeb Inspection Checklist. Section 405.2.3, 405.2.4, 405.6, 405.7, 405.8.2, 405.5.3. Includes compliance checkboxes and comments.

COMcheck Software Version COMcheckWeb Final Inspection. Section 408.2.5, 408.3.2, 408.1.1, 408.3. Includes compliance checkboxes and comments.

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Wayne Thorne - PX3005 11-09-23
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