ELECTRICAL SYMBOLS LEGEND

NTS — 00M-E0101-N00-LGND — N — 12/22/17

SYMBOL	ITEM	DESCRIPTION
	RECESSED DOWNLIGHT	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	RECESSED DIRECTIONAL	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	TRACK LIGHT	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	FLUORESCENT STRIP	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	EMERGENCY FLUORESCENT STRIP	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	FLUORESCENT TROFFER	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	SCONCE	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	DECORATIVE PENDANTS	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	DECORATIVE LAMP	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	EXIT SIGN W/ DIRECTIONAL ARROWS	ARROWS OPTIONAL PER PLAN. REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION. IN CANADA, EXIT SIGNS ARE SUPPLIED & INSTALLED BY CONTRACTOR.
	EMERGENCY LIGHT, SURFACE	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	EMERGENCY LIGHT, RECESSED	REFER TO LIGHT FIXTURE SCHEDULE FOR DESCRIPTION
	SCENT-AIR FRAGRANCE DISTRIBUTOR	
$	SWITCH	
$MS	SWITCH - MOTION SENSOR	HUBBELL AP2000W22 PASSIVE INFRARED, DOUBLE POLE, SINGLE THROW WALL SWITCH SENSOR WITH TWO SEPARATE RELAYS. WHITE COLOR FINISH.
$D	SWITCH - DIMMER	HUBBELL 5614I, SINGLE POLE, SINGLE THROW WALL DIMMER SWITCH. WHITE COLOR FINISH.
$K	KEY - SWITCH	HUBBELL HBL1223RKL, SINGLE POLE, THREE-WAY BARREL KEY WALL SWITCH FOR STOREFRONT ROLLING GRILLE. WHITE COLOR FINISH.
$RD	SWITCH - DIMMER	ROOM CONTROLLER DIMMER SWITCH. REFER FOR SHEET E05.02 FOR MORE INFORMATION.
	CEILING EXHAUST FAN	REFER TO MECHANICAL SCHEDULE FOR INFORMATION.
	TRAFFIC COUNTER	REFER TO ARCHITECTURAL DRAWINGS FOR COLOR INFORMATION
WAP	WIRELESS ACCESS POINT	
	SPEAKER/SUBWOOFER	REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.
	CAMERA/SECURITY DOME	REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.
	IP CAMERA	REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.
	LVAN	REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.
	SINGLE RECEPT. W/ COVERPLATE	20 AMP, 120 VOLT
	DUPLEX RECEPT. W/ COVERPLATE	20 AMP, 120 VOLT, SHALL BE WHITE UNLESS NOTED OTHERWISE
	QUAD. RECEPT. W/ COVERPLATE	20 AMP, 120 VOLT
	FLUSH QUAD FLOOR RECEPT.	20 AMP, 120 VOLT FLOOR BOX
	FLUSH DUPLEX FLOOR RECEPT.	20 AMP, 120 VOLT FLOOR BOX
	FLUSH DUPLEX/DATA FLOOR RECEPT.	20 AMP, 120 VOLT FLOOR BOX
TD	TELEPHONE OUTLET	WHITE COLOR RJ14C TELE. JACK IN SALES AND NON-SALES AREA.
TD	DATA/TELEPHONE OUTLET	WHITE COLOR PLATE IN SALES AND IN NON-SALES AREA.
	JUNCTION BOX	JUNCTION BOX, 4" X 4" X 2 1/8" DEEP MINIMUM
MS	MAGNETIC STARTER	FULL VOLTAGE STARTER IN A NEMA 1 ENCLOSURE, SIZE 1 MINIMUM
DS	DISCONNECT SWITCH	HEAVY DUTY, FUSIBLE AND NON-FUSIBLE PROVIDED BY EC
DS	DISCONNECT SWITCH	HEAVY DUTY, FUSIBLE AND NON-FUSIBLE PREINSTALLED WITH EQUIPMENT
	DELIVERY BUZZER TRANSFORMER	TRANSFORMER AT 8'-0" AFF
	DELIVERY BUZZER	REFER TO POWER PLAN FOR MOUNTING INFORMATION
	PUSHBUTTON	PUSHBUTTON UNIT
S	CEILING SMOKE DETECTOR	SYSTEM CONNECTED CEILING MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR	SYSTEM CONNECTED DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR COMPLETE WITH SAMPLING TUBES
DC	DOOR CONTACT	FOR SECURITY / CAMERA SYSTEM
MD	MOTION DETECTOR	CEILING MOUNTED
MD	MOTION DETECTOR	WALL MOUNTED
K	KEYPAD	KEYPAD SEE FLOOR PLAN FOR LOCATION
OS	CEILING MOUNTED OCC. SENSOR	LEVITON POWER BASE ADAPTER MODEL OPB15 AND OCCUPANCY SENSOR MODEL OSC-10 WDW. MOUNT SENSOR LEVELED WITH LIGHTS.
OS	CEILING MOUNTED OCC. SENSOR	ROOM CONTROLLER OCCUPANCY SENSOR. REFER FOR SHEET E05.02 FOR MORE INFORMATION.
PP OS OS	CEILING MOUNTED POWER PACK AND OCCUPANCY SENSOR(S)	POWER PACK, LEVITON MODEL OPP2001 OCCUPANCY SENSOR LEVITON MODEL OSC-10-MDW
PS	DAYLIGHT PHOTO SENSOR	
S T H CO2	SENSOR/THERMOSTAT/HUMIDISTAT/ CARBON MONOXIDE	SINGLE GANG BOX (2"x4") FOR SENSOR/THERMOSTAT/HUMIDISTAT/CARBON MONOXIDE WITH FACE FLUSH TO DRYWALL.
EDD	ELECTRONICALLY OPERATED DAMPER W/ TOGGLE DISCONNECT	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS.
FACP	FIRE ALARM CONTROL PANEL	INCLUDES BATTERY BACK-UP FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR. COORDINATE WITH LANDLORD'S REQUIREMENTS FOR SEQUENCE OF OPERATION
FSA	FIRE ALARM REMOTE ANNUNCIATOR	
F	FIRE ALARM MANUAL PULL STATION	MOUNT CENTER OF DEVICE AT 48" AFF
F	FIRE ALARM HORN/STROBE	DEVICE SHALL BE WALL MOUNTED. MOUNT CENTER OF LENS AT 80" AFF. CANDELA RATING BY FIRE ALARM CONTRACTOR.
FS	FIRE ALARM STROBE	DEVICE SHALL BE WALL MOUNTED. MOUNT CENTER OF LENS AT 80" AFF. CANDELA RATING BY FIRE ALARM CONTRACTOR.
FHS	FIRE ALARM HORN/STROBE	DEVICE SHALL BE CEILING MOUNTED. CANDELA RATING BY FIRE ALARM CONTRACTOR.
FS	FIRE ALARM STROBE	DEVICE SHALL BE CEILING MOUNTED. CANDELA RATING BY FIRE ALARM CONTRACTOR.
FB	FIRE ALARM BELL	BELL SHALL BE SURFACE MOUNTED ABOVE THE CEILING. RATING BY FIRE ALARM CONTRACTOR.
H	HEAT DETECTOR	
EOL	END OF LINE RESISTOR	
RELAY	FAN SHUT DOWN RELAY	
FS	FIRE ALARM WATER FLOW	
	EVACUATION CHIME	WHITE FOR LIGHT COLOR CEILINGS. BLACK FOR DARK COLOR CEILINGS.
RC	ROOM CONTROLLER	ROOM CONTROLLER DIMMING SYSTEM. SEE SHEET E05.02 FOR MORE INFORMATION.

ELECTRICAL RESPONSIBILITY SCHEDULE

NTS — 00M-E0101-J00-SCHD — J — 12/22/17

ANY ITEM NOT SHOWN IS THE RESPONSIBILITY OF CONTRACTOR.

ITEM	FURNISHED BY: LANDLORD	FURNISHED BY: COMM'R.	INSTALLED OR PERFORMED BY: LSD&C/ VENDOR	INSTALLED OR PERFORMED BY: LANDLORD	INSTALLED OR PERFORMED BY: COMM'R.	INSTALLED OR PERFORMED BY: OTHER	RE-USE EXISTING	N/A	REMARKS
MAIN OVER CURRENT DEVICE IN LANDLORD'S ELECTRICAL EQUIPMENT							●		FIELD VERIFY PRIOR TO BID
METER IN LANDLORD'S OR TENANT'S SPACE (VERIFY W/ POWER PLANS, RISER)							●		FIELD VERIFY PRIOR TO BID
CT'S AND CABINET IN LANDLORD'S OR TENANT'S SPACE (VERIFY W/ POWER PLANS, RISER)							●		FIELD VERIFY PRIOR TO BID
SERVICE ENTRANCE CONDUIT(S) TO LEASE SPACE							●		FIELD VERIFY PRIOR TO BID
SERVICE ENTRANCE FEEDER(S) TO LEASE SPACE							●		FIELD VERIFY PRIOR TO BID
U.T.S. ENCLOSURE (SYNTHOREAX ASSEMBLY)			IF		EC				
277/480 VOLT PANEL OR 347/600 VOLT PANEL								●	
STEP DOWN LINE TRANSFORMER & MOUNTING ACCESSORIES								●	
120/208 VOLT PANEL(S)			IF			IF			INSTALLED IN FACTORY
SMART BREAKER SYSTEM FOR LIGHTING CONTROL			IF			IF			INSTALLED IN FACTORY
LIGHTING CONTROLLER WITH POWER SUPPLY AND OVERRIDE STATION			EWS			IF			INSTALLED IN FACTORY
T-LUMEN PANEL							●		
BREAKER LOCKS			IF		EC				AS REQUIRED BY ENGINEER

MECHANICAL / PLUMBING EQUIPMENT COORDINATION

ITEM	FURNISHED BY: LANDLORD	FURNISHED BY: COMM'R.	INSTALLED OR PERFORMED BY: LSD&C/ VENDOR	INSTALLED OR PERFORMED BY: LANDLORD	INSTALLED OR PERFORMED BY: COMM'R.	INSTALLED OR PERFORMED BY: OTHER	RE-USE EXISTING	N/A	REMARKS
POWER WIRING AND CONDUIT / PULL STRING TO ALL HVAC EQUIPMENT		EC			EC				
ROOF TOP UNIT - DISCONNECT SWITCH			ACS			ACS			
ROOF TOP UNIT - WEATHERPROOF GFI SERVICE REC.			ACS			ACS			WIRED BY EC
AIR HANDLING UNIT (OR SPLIT) - ELECTRIC HEAT-DISCONNECT SWITCH/FAN CONTACTS							●		
AIR HANDLING UNIT (OR SPLIT) - DISCONNECT SWITCH / FAN CONTACTS							●		
CONDENSING UNIT (OR SPLIT) - DISCONNECT SWITCH							●		
CONDENSING UNIT (OR SPLIT) - WEATHERPROOF GFI SERVICE REC.							●		
FAN POWERED VAV / VAV SYSTEM (WITH OR WITHOUT ELECTRIC HEAT) - DISCONNECT SWITCH			ACS			ACS			
WATER SOURCE HEAT PUMP - DISCONNECT SWITCH							●		
TOILET EXHAUST FANS (FRACTIONAL HP) WITH DISCONNECT SWITCH		WC			WC				WIRED BY EC
ELECTRONIC CONTROL DAMPERS - DISCONNECT SWITCH							●		
DUCT HEATERS							●		
HVAC SENSOR JUNCTION BOX AND CONDUIT WITH PULL STRING		EC			EC				WIRED BY MC
DEHUMIDIFICATION SINK SOLENOID VALVE AND CONTROL TRANSFORMER							●		

LOW VOLTAGE SYSTEMS

ITEM	FURNISHED BY: LANDLORD	FURNISHED BY: COMM'R.	INSTALLED OR PERFORMED BY: LSD&C/ VENDOR	INSTALLED OR PERFORMED BY: LANDLORD	INSTALLED OR PERFORMED BY: COMM'R.	INSTALLED OR PERFORMED BY: OTHER	RE-USE EXISTING	N/A	REMARKS
BURGLAR / SECURITY SYSTEM - KEYPOWER			SSV		SC				
BURGLAR / SECURITY SYSTEM - WIRE			SSV		EC				
BURGLAR / SECURITY SYSTEM - CONDUIT / PULL STRING			EC		EC				IF REQUIRED BY AHJ
WAP - HARDWARE			TELC		TELC				
WAP - WIRE			TELC		TELC				
WAP - CONDUIT / PULL STRING			EC		EC				
LVAN / TRAFFIC & OBSERVATIONS SYSTEM - EQUIPMENT			TELC		TELC				
LVAN / TRAFFIC & OBSERVATIONS SYSTEM - WIRE			TELC		TELC				
LVAN / TRAFFIC & OBSERVATIONS SYSTEM - CONDUIT / PULL STRING			EC		EC				IF REQUIRED BY AHJ
MUSIC / VIDEO SYSTEM - HARDWARE [SPEAKERS/MONITORS/CONTROLLERS]			WS		EC				
MUSIC / VIDEO SYSTEM - WIRE			WS		EC				
MUSIC / VIDEO SYSTEM - CONDUIT / PULL STRING			EC		EC				IF REQUIRED BY AHJ
DELIVERY BUZZER SYSTEM - HARDWARE			EC		EC				
DELIVERY BUZZER SYSTEM - WIRE			EC		EC				
DELIVERY BUZZER SYSTEM - CONDUIT / PULL STRING			EC		EC				IF REQUIRED BY AHJ
TRAFFIC COUNTER - CONDUIT / PULL STRING			EC		EC				
TRAFFIC COUNTER - COUNTER / WIRE			LSD&C		LSD&C				

MISCELLANEOUS ELECTRICAL ITEMS

ITEM	LANDLORD	COMM'R.	LSD&C/ VENDOR	LANDLORD	CONTR.	OTHER/NR	RE-USE EXISTING	N/A	REMARKS
LIGHTING FIXTURES AND LAMPS			LSD		LSD				
DIMMING CONTROL SYSTEM		EC			EC				
RECEPTACLES, COVERPLATES AND MOTION SENSOR LIGHT SWITCHES		EC			EC				
FLOOR BOXES, COVERS AND FLOOR BOXES WITH DATA		EC			EC				UNLESS OTHERWISE NOTED ON PLANS
JUNCTION BOXES		EC			EC				
DATA AND TELEPHONE SYSTEMS - CABLE AND JACKS		TELC			TELC				
DATA AND TELEPHONE SYSTEMS - CONDUITS / PULL STRING		EC			EC				
TELEPHONE DEMARC PANEL - PROTECTION OF DURING CONSTRUCTION / RELOCATION / DEMOLITION		GC							CALL LSD&C TO RELOCATE. DO NOT CUT WIRES.
EXACT SMOKE DETECTOR		FAC			WC				
MECHANICAL EQUIPMENT SHUNT-TRIPS		FAC			FAC				
FIRE ALARM SYSTEM		FAC			FAC				
POWER WIRING AND CONDUIT / PULL STRING		EC			EC				
ROOF TOP UNIT							●		
CEILING AND CONCEALED WIRING							●		
CEILING GRID							●		
CEILING GRID AT 4x4 AREAS							●		
CEILING TILE							●		
ROOM CONTROLLER DEVICES AND WIRING			IF		EC				
AS-BUILT DRAWINGS		EC			EC				

FIRE PENETRATION SCHEDULE

NTS — 00M-E0101-H00-SCHD — H — 08/13/15

TYPE OF PENETRATION	CONCRETE OR MASONRY: FLOORS UL/ULC SYSTEM #	CONCRETE OR MASONRY: WALLS UL/ULC SYSTEM #	GYPSUM BOARD/FRAME: FLOORS UL/ULC SYSTEM #	GYPSUM BOARD/FRAME: WALLS UL/ULC SYSTEM #	"SPECSEAL FIRESTOP" PRODUCTS
METAL CONDUITS MAX. 4"	CAJ1080	CAJ1080	FC1010	WL1043	SSS100 SEALANT
	CAJ2113	WJ1035		WL1085	LC150 SEALANT
	CAJ1198	CAJ1198		WL1062	PEN300 SILICONE
PVC CONDUIT 2" AND SMALLER	CAJ2031	WJ2018	FC2032	WL2093	SSS100 SEALANT
	CAJ2038	CAJ2038		WL2029	FIRESTOP COLLAR
PVC CONDUITS 2" THRU 4"	CAJ2045	CAJ2045			FIRESTOP COLLAR
	CAJ2124	CAJ2124	FC2035	WL2059	WRAP STRIPS
	CAJ4029	WJ4021		WL4006	FIRESTOP PILLOWS
CABLE TRAY STEEL OR ALUMINUM	CAJ4020	CAJ4020			FIRESTOP MORTAR
		WJ4009		WL4005	SSS100 SEALANT
ELECTRICAL BUS DUCT	CAJ6003	CAJ6003			PEN300 SILICONE
	CAJ6008	CAJ6008		WL6001	SSS100 SEALANT
CABLE BUNDLES MAX. 3"	CAJ3154	WJ3022		WL3076	SSS100 SEALANT

NOTES:

1. ALL UL/ULC LISTED SYSTEMS SHOWN ABOVE ARE BASED ON PROVIDING A 1 & 2 HOUR RATED FIRESTOP. WHERE 3 HOUR RATING IS REQUIRED, CONTACT FIRESTOP PRODUCT MANUFACTURER FOR DESIGN MODIFICATIONS.
2. ALL UL/ULC LISTED SYSTEMS SHOWN ABOVE ARE BASED ON "SpecSeal Firestop" PRODUCTS FROM SPECIFIED TECHNOLOGIES, INC. OR APPROVED EQUAL PRODUCTS FROM "3-M" OR HILTI, INC.

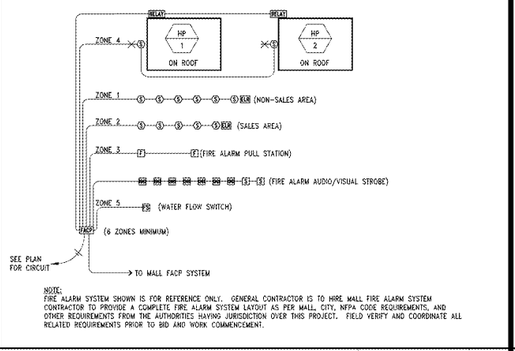
FIRE ALARM GENERAL NOTES

NTS — 00M-E0101-G00-NOTE — F — 08/07/14

1. FIRE ALARM SYSTEM SHALL BE UL/ULC LISTED AND APPROVED BY LOCAL FIRE OFFICIAL AND FIRE DEPARTMENT.
2. FIRE ALARM SYSTEM SHALL SHUT-DOWN HVAC UNITS IN CASE OF ANY ZONE ALARM.
3. FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL RELAYS AND DRY CONTACTS FOR HVAC UNITS AS REQUIRED. RELAYS SHALL SHUT-DOWN HVAC UNITS UPON ANY ZONE ALARM.
4. TENANT'S FIRE ALARM SYSTEM SHALL BE PRE-TESTED PER LANDLORD'S CRITERIA AND LOCAL AUTHORITY. TENANT'S FIRE ALARM SYSTEM SHALL BE FINAL TESTED BY THE LOCAL BUILDING AND FIRE MARSHALL AND WITNESSED BY LANDLORD'S ON-SITE REPRESENTATIVE.
5. LANDLORD'S FIRE ALARM CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO LANDLORD'S FIRE ALARM SYSTEM AT THE TENANT'S SOLE COST AND EXPENSE.
6. THESE PLANS MAY BE USED FOR CONSTRUCTION ONLY AFTER APPROVAL IS OBTAINED FROM THE BUILDING DEPARTMENT FIRE ALARM PLAN CHECK DIVISION AND THAT DIVISION'S STAMPED APPROVAL AND AUTHORIZED SIGNATURE APPEAR ON THE PLANS.
7. COORDINATE ALL WORK WITH ALL TRADES INCLUDED BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND STRUCTURAL CONTRACTORS. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS. NO ITEM SUCH AS PIPE, DUCT, ETC. IS TO BE IN CONTACT WITH ANY EQUIPMENT.
8. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK AND EXACT FIXTURE LOCATIONS.
9. CONTRACTOR SHALL PROVIDE CUT SHEETS TO LSD&C FOR ALL EQUIPMENT AND DEVICES FURNISHED BY THE CONTRACTOR THAT DEVIATE FROM SPECIFIED ITEM FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF ANY SUCH EQUIPMENT OR DEVICES.
10. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXACT LOCATION OF SMOKE DETECTORS AND FIRE ALARM INTERFACE PANEL IN TENANT'S DEMISED PREMISES PRIOR TO SUBMITTING HIS OR HER BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOB SITE AND/OR FAILURE TO PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS OR HER BID.
11. ACCESS TO ALL COMPONENTS AND EQUIPMENT MUST BE PROVIDED TO MEET CODE AND SERVICE/MAINTENANCE EASE.
12. THE CONTRACTOR SHALL VERIFY WITH LOCAL CODES AS TO THE REQUIREMENT/INSTALLATION OF THE FIRE ALARM SYSTEM.
13. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL ENSURE THE PROPER WORKING ORDER OF THE SYSTEM(S) AND MAKE ANY ADJUSTMENTS AS REQUIRED.
14. FIRE ALARM CONTRACTOR SHALL PROVIDE UL/ULC LISTED FIRE STOPPING SYSTEMS AROUND ALL CONDUIT PENETRATIONS THROUGH RATED WALLS.
15. FIRE ALARM CONTRACTOR RESPONSIBLE FOR PULLING LOW VOLTAGE PERMIT.

FIRE ALARM SINGLE LINE DIAGRAM

NTS — 00M-E0101-E00-DIAG — E — 08/07/14



NOTE:
FIRE ALARM SYSTEM SHOWN IS FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO HIRE MALL FIRE ALARM SYSTEM CONTRACTOR TO PROVIDE A COMPLETE FIRE ALARM SYSTEM LAYOUT AS PER MALL CITY, NFPA CODE REQUIREMENTS, AND OTHER REQUIREMENTS FROM THE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. FIELD VERIFY AND COORDINATE ALL RELATED REQUIREMENTS PRIOR TO BID AND WORK COMMENCEMENT.

ELECTRICAL ABBREVIATIONS

NTS — 00D-E0101-F00-ABBR — G — 08/31/17

A/C	AIR CONDITIONER	FLA	FULL LOAD AMPS	NL	NIGHT LIGHT DESIGNATION
AC	ALTERNATING CURRENT	G	GROUND	N.O.	NORMALLY OPEN
ACS	HVAC EQUIPMENT SUPPLIER	GC	GENERAL CONTRACTOR		
AFF	ABOVE FINISHED FLOOR	GFI	GROUND FAULT INTERRUPTER	OC	ON CENTER
AHU	AIR HANDLING UNIT			OL	OVER LOAD
AHJ	AUTHORITY HAVING JURISDICTION	HP	HORSEPOWER		
AIC	AMPERE INTERRUPTING CAPACITY	HV	HIGH VOLTAGE	P	POLE
AMP, A	AMPERE	HZ	HERTZ	PA	PUBLIC ADDRESS
				PC	PLUMBING CONTRACTOR
C	CONDUIT	IP	INTERCOM PHONE	PE	PHOTO ELECTRIC
C.B	CIRCUIT BREAKER	IF	IF'S SUPPLIER	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	IFS	INTEGRATED FACILITY SYSTEM	PS	PAGING SYSTEM VENDOR
CIRC.	CIRCUIT			PWR	POWER
CL	CURRENT LIMITER	J-BOX	JUNCTION BOX		
COL.	COLUMN			RM	ROOM
COND	CONDUIT	KVA	KILOVOLT-AMPS	RT	RUN TIGHT
CONT	CONTINUED			RTU	ROOF TOP UNIT
CU	COPPER	LD	LIGHTING PACKAGE DISTRIBUTOR		
		LCL	LONG CONTINUOUS LOAD	SC	SECURITY CONTRACTOR
DET	DETAIL	LL	LANDLORD	SSV	SECURITY SYSTEM VENDOR
DF	DRINKING FOUNTAIN	LSD&C	L.S. BRANDS STORE DESIGN AND CONSTRUCTION	SV	SENSORMATIC VENDOR
DIA	DIAMETER			SW	SWITCH
DISC	DISCONNECT	LTG	LIGHTING	SWBD	SWITCHBOARD
DISTR	DISTRIBUTION	LV	LOW VOLTAGE		
DWG	DRAWING	LVAN	L-BRANDS VOICE AND DATA ANALYTIC NETWORK	TC	TIMECLOCK
				TELC	TELEPHONE CONTRACTOR
(E). EX	EXISTING	MAX	MAXIMUM	TELE	TELEPHONE
EC	ELECTRICAL CONTRACTOR	MC	MECHANICAL CONTRACTOR	TYP	TYP.
EF	EXHAUST FAN	MCC	MOTOR CIRCUIT CAPACITY		
ELEC	ELECTRICAL	MCC	MOTOR CONTROL CENTER	V	V
EM	EMERGENCY LIGHT DESIGNATION	MCB	MAIN CIRCUIT BREAKER		
EMS	ENERGY MANAGEMENT SYSTEM	MECH	MECHANICAL	WP	WEATHERPROOF
	VENDOR	MLO	MAIN LUGS ONLY	WAP	WIRELESS ACCESS POINT
EWC	ELECTRIC WATER COOLER		MINIMUM		
EXD	EXTERNALLY DRIVEN		MOUNTING HEIGHT		
EXT LOC	EXTERIOR LOCATION		MAIN SYSTEM		
FA	FIRE ALARM	N.C.	NORMALLY CLOSED		
FAC	FIRE ALARM CONTRACTOR	NF	NOT FUSED		
FVAT		N.I.C.	NOT IN CONTRACT		

ELECTRICAL GENERAL NOTES

NTS — 00N-E0101-C00-NOTE — C — 08/12/13

1. CIRCUITING INDICATED ON PLAN IS PARTIALLY DIAGRAMMATIC FOR CLARITY. CIRCUITING SHALL BE "THRU-WIRING" WHERE AND WHENEVER POSSIBLE.
2. FIELD VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT.
3. ALL RECEPTACLE CIRCUITS UP TO 100'-0" SHALL UTILIZE #12 CONDUCTORS MINIMUM. ALL RECEPTACLE AND LIGHTING CIRCUITS FROM 100'-1" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. ALL RECEPTACLE CIRCUITS 150'-1" UP TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. CIRCUITS ABOVE 250'-0" SHALL UTILIZE #6 CONDUCTORS MINIMUM.
4. PLACEMENT OF ALL RECEPTACLES IN THE SALES AREA SHALL BE INTENTIONAL (I.E. – CENTERED ON COLUMNS, WALL FEATURES OR TIGHT TO CORNERS), UNLESS OTHERWISE NOTED. IF THE RECEPTACLE IS NOT SHOWN IN A DESIRABLE LOCATION, FIELD VERIFY EXACT PLACEMENT OF RECEPTACLE WITH LS PROJECT MANAGER PRIOR TO ROUGH IN.
5. ALL RECEPTACLES AND COVERS (DUPLEX, QUADRAPLEX, ETC) SHALL BE THE COLORS AS NOTED IN THE ELECTRICAL POWER PLAN NOTES AND SCHEDULES.
6. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A FULLY COMPLETE AND OPERABLE SYSTEM.
7. ACCESS TO ALL COMPONENTS AND EQUIPMENT MUST BE PROVIDED TO MEET CODE AND SERVICE/MAINTENANCE EASE. WHERE DRYWALL CEILINGS ARE USED IN THE "SALES" AREA, THE ELECTRICAL CONTRACTOR SHALL ARRANGE CIRCUITS TO AVOID THE USE OF JUNCTION BOXES IN INACCESSIBLE LOCATIONS. THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILINGS SHALL BE LIMITED TO LOCATIONS NEAR ACCESS FRAMES USED FOR DIFFUSERS AND RETURN AIR GRILLES OR ACCESS PANELS AS LOCATED ON PLANS. IF PLAN LOCATION IS NOT ACCEPTABLE, IMMEDIATELY CONTACT LSD&C PROJECT MANAGER.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE FIRE ALARM SYSTEM LAYOUT AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND ALL APPLICABLE CODES, AND COMPATIBLE WITH THE LANDLORD'S FIRE ALARM SYSTEM. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INQUIRE WITH THE LANDLORD'S REPRESENTATIVE ON ANY FIRE ALARM SYSTEMS IN USE AT THE MALL AT THE TIME OF BID. IF THE FIRE ALARM SYSTEM IS NOT ADEQUATELY DESCRIBED ON THE DRAWINGS, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INFORMING THE GENERAL CONTRACTOR AND INCLUDE THE COST AS A SEPARATE LINE IN BID. NO ADDITIONAL MONIES SHALL BE AWARDED FOR TIE-IN REQUIREMENTS TO A LANDLORD'S FIRE ALARM SYSTEM THAT IS IN EXISTENCE AT THE TIME OF BID, WITHOUT A SEPARATE LINE ITEM.
9. ANY PENETRATION THROUGH THE ROOF OR WALL WITH CONTROL WIRING MUST BE SLEEVED IN A CONDUIT.
10. ALL 24 VOLT COMMUNICATION AND/OR SENSOR WIRING ASSOCIATED WITH HVAC SYSTEM SHALL BE FURNISHED BY HVAC EQUIPMENT MANUFACTURER AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL FINAL CONNECTIONS SHALL BE BY MECHANICAL CONTRACTOR. ALL WIRING AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ADOPTED ELECTRICAL CODE, JURISDICTION APPROVED CODE AND AMENDMENTS, AND LANDLORD REQUIREMENTS.
11. FURNISH AND INSTALL GROUND WIRE CONNECTION (BY-PASS) BETWEEN WATER METER PLUMBING END PIPE USING CLAMP CONNECTORS. MAKE SURE PLUMBING METALLIC WATER PIPE IS SECURELY GROUNDED AS PER THE ADOPTED ELECTRICAL CODE, JURISDICTION APPROVED CODE AND AMENDMENTS.
12. IFS ENCLOSURE FURNISHED BY LS AND INSTALLED BY ELECTRICAL CONTRACTOR IS HEREIN DESCRIBED:
    12.a. EQUIPMENT NOTED HAS BEEN PREPURCHASED BY LIMITED STORE DESIGN & CONSTRUCTION.
    12.b. UNIT WILL BE SHIPPED TO THE PROJECT IN MULTIPLE SECTIONS AND THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR OFF-LOADING OF EQUIPMENT, INSPECTION OF EQUIPMENT FOR DAMAGES, VERIFICATION OF EQUIPMENT RECEIVED, ENSURING THAT THE EQUIPMENT RECEIVED IS COMPLETE AND MEETS THE SCHEDULED PANELS FOR THE PROJECT, MOVING AND MOUNTING OF SECTIONS AS WELL AS REASSEMBLING OF SAME INTO ONE COMPLETE UNIT PER MANUFACTURER'S REQUIREMENTS.
    12.c. ELECTRICAL CONTRACTOR TO CONNECT ALL PROVIDED INTERCONNECTING CABLES BETWEEN SECTIONS AND TORQUE CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.
    12.d. ELECTRICAL CONTRACTOR IS TO CONNECT LIGHTING BRANCH CIRCUITS TO APPROPRIATE LOAD TERMINALS PROVIDED WITHIN IFS ENCLOSURE PER LIGHTING ZONES INDICATED IN THE PANEL SCHEDULE (I.E. ZONE A, B, C, AND D). LINE SIDE WIRING AND LIGHTING CONTROL WIRING WILL BE PREWIRED BY MANUFACTURER AT FACTORY. COORDINATE EXACT TERMINAL NUMBER FOR EACH CIRCUIT CONNECTION WITH MANUFACTURER'S DRAWINGS.
    12.e. ALL LIGHTING, RECEPTACLE, AND MISCELLANEOUS BRANCH CIRCUITS NOT SPECIFIED AS BEING CONTROLLED ARE TO BE WIRED DIRECTLY TO THE CORRESPONDING BRANCH BREAKER IN THE DESIGNATED PANEL.
    12.f. ALL CONNECTIONS WITHIN THE TELEPHONE/DATA SECTION AND HVAC CONTROL SECTION OF THE IFS ENCLOSURE ARE TO BE PERFORMED BY OTHERS.
13. CENTER ALL FIXTURES IN CEILING TILE WHERE APPLICABLE INCLUDING FAUX 2X2 GRID NOT CEN