- 1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)
- 2. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC AMENDMENTS.
- 3. ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES. GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE AS REQUIRED BY STATE AND LOCAL CODES.
- 4. ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6'-6" AFF.
- 5. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS. MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
- 6. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT ARE NOT LIMITED TO:
- a. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.).
- b. COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
- c. THIS CONTRACTOR SHALL ASSIST THE DIVISION 23 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN CEILING WITH CEILING CLEARANCES, RACEWAYS, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).
- d. THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 21E DRAWINGS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. 7. DEFINITIONS:
- a. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
- b. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
- c. "PROVIDE" MEANS TO "FURNISH AND INSTALL".

AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.

- d. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER. e. "RE: DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUPPLIERS, SUBCONTRACTORS,
- 8. "FIRESTOPPING" REQUIREMENT. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ALL PENETRATIONS SHALL MEET F AND T RATINGS AS REQUIRED BY THE
- BUILDING CODE. 9. WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO EQUIPMENT BEING
- 10. CONTRACTOR PROVIDE ALL MISCELLANEOUS SUPPORTS AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC.

THE ENTIRE LENGTH NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF TO BOTTOM OF DEVICE 78" (6-6") U.N.O. 72" (6-6") U.N.O. 10 TO TOP OF BOTTOM 10 T	NOTE: ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY, ON THE SAME SIDE OF THE STUD. WHERE WALL MOUNTED TELEPHONES OCCUR OVER LIGHT SWITCHES, VOLUME CONTROLS, ETC. OFFSET ONE STUD SPACE.
TYPICAL DEVICE MOUNTING HEIGHTS NO SCALE	FINISHED FLOOR

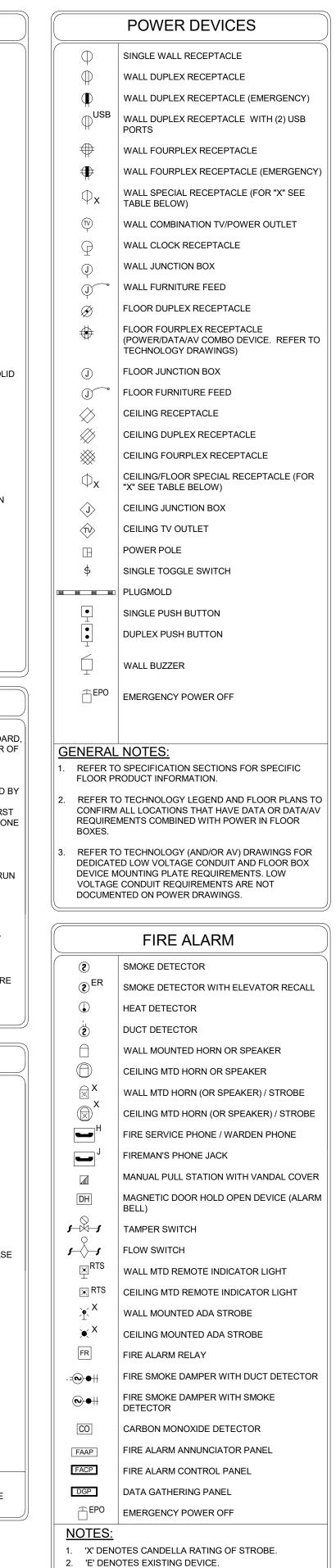
- 1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE. 2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
- 3. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
- 4. ALL ABOVE COUNTER (DESIGNATED BY "AC") SHALL BE MOUNTED 8" ABOVE COUNTER OR MAXIMUM HEIGHT OF
- 44" TO TOP OF DEVICE. VERIFY HEIGHTS WITH ARCHITECT. 5. FOR CEILINGS BELOW 7'-4", FIRE ALARM STROBE OR HORN/STROBES SHALL BE WALL MOUNTED 6" BELOW
- 6. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DUPLEX RECEPTACLES
- SHALL BE MOUNTED VERTICALLY. 7. REFER TO ARCHITECTURAL DRAWINGS FOR RECEPTACLE MOUNTING HEIGHTS. STANDARD CONVENIENCE
- RECEPTACLES SHALL BE MOUNTED AT HEIGHT INDICATED ABOVE WHERE MOUNTING HEIGHT IS NOT SHOWN ON
- 8. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS DIMENSIONS WHERE AVAILABLE. WHERE DEVICES ARE MOUNTED IN CASEWORK OR MILLWORK, CONTRACTOR SHALL VERIFY EXACT DIMENSIONS PRIOR TO

		RECEPTACLE MOD	OIFIER TAGS	
TAG	OUTLET RATING	NEMA/CAT NO	FEEDER (NOTE 1)	WIRING NOTES
Α	NON-LOCKING, 20A, 125V, 1PH	5-20R	2#12,#12G,3/4"C (50FT)	DEDICATED, SINGLE OUTLET
В	NON-LOCKING, 30A, 125V, 1PH	5-30R	2#10,#10G,3/4"C (60FT)	HOT-NEUT-GND
С	NON-LOCKING, 20A, 250V, 1PH	6-20R	2#12,#12G,3/4"C (100FT)	HOT-HOT-GND
D	NON-LOCKING, 30A, 250V, 1PH	6-30R	2#10,#10G,3/4"C (120FT)	HOT-HOT-GND
E	NON-LOCKING, 50A, 250V, 1PH	6-50R	2#6,#10G,3/4"C (150FT)	HOT-HOT-GND
F	TBD	-	-	-
G	NON-LOCKING, 20A, 125/250V, 1PH	14-20R	3#12,#12G,3/4"C (100FT)	HOT-HOT-NEUT-GND
Н	TBD	-	-	-
I	NOT USED	-	-	-
J	LOCKING, 20A, 125V, 1PH	L5-20R	2#12,#12G,3/4"C (50FT)	HOT-NEUT-GND
K	LOCKING, 30A, 125V, 1PH	L5-30R	2#10,#10G,3/4"C (60FT)	HOT-NEUT-GND
L	LOCKING, 20A, 250V, 1PH	L6-20R	2#12,#12G,3/4"C (100FT)	HOT-HOT-GND
М	LOCKING, 30A, 250V, 1PH	L6-30R	2#10,#10G,3/4"C (120FT)	HOT-HOT-GND
N	TBD	-	-	-
0	NOT USED	-	-	-
Р	LOCKING, 20A, 125/250V, 1PH	L14-20R	3#12,#12G,3/4"C (100FT)	HOT-HOT-NEUT-GND
Q	LOCKING, 30A, 125/250V, 1PH	L14-30R	3#10,#10G,3/4"C (120FT)	HOT-HOT-NEUT-GND
R	TBD	-	-	-
S	LOCKING, 20A, 208Y/120V, 3PH	L21-20R	4#12,#12G,3/4"C (120FT)	HOT-HOT-HOT-NEUT-GND
Т	LOCKING, 30A, 208Y/120V, 3PH	L21-30R	4#10,#10G,3/4"C (130FT)	HOT-HOT-HOT-NEUT-GND
U	LOCKING, 50A, 250V, 3PH	HBL CS8365C	3#6,#10G,1"C (175FT)	HOT-HOT-HOT-GND
V	NOT USED	-	-	-
W	PIN&SLEEVE, 60A, 208Y/120V, 3PH	HBL 560R9W	4#4,#10G,1-1/4"C (200FT)	HOT-HOT-HOT-NEUT-GND
Х	PIN&SLEEVE, 100A, 208Y/120V, 3PH	HBL 5100R9W	4#1,#8G,1-1/2"C (250FT)	HOT-HOT-HOT-NEUT-GND
Υ	TBD	-	-	-
Z	TBD	-	-	-

	ABBREVIATIONS			ABBREVIATIONS
A,AMP	AMPERE		MAX	MAXIMUM
AC	ABOVE COUNTER		MB	MAIN BREAKER
AF	AMPERE FUSE/FRAME		MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR		MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE		MCC	MOTOR CONTROL CENTER
AL	ALUMINUM		MCP	MOTOR CIRCUIT PROTECTOR
AM	AMMETER ANNUNCIATOR		MDP	MAIN DISTRIBUTION PANEL
ANN ANT			MECH	MECHANICAL MANUFACTURER
	ANTENNA AUTOMATIC TRANSFER SWITCH			MOTOR GENERATOR
ATS AUTO	AUTOMATIC AUTOMATIC		MG MH	MANHOLE OR METAL HALIDE
AUX	AUXILIARY		MIN	MINIMUM MINIMUM
AWG	AMERICAN WIRE GAUGE		MLO	MAIN LUGS ONLY
BFC	BELOW FINISHED CEILING		MOV	MOTOR OPERATED VALVE
BFG	BELOW FINISHED GRADE		MS	MOTOR STARTER
BKR	BREAKER		MSB	MAIN SWITCHBOARD
C	CONDUIT		MTD	MOUNTED
CAB	CABINET		MTG	MOUNTING
CAM	CAMERA		MS	MOTOR STARTER
CAIVI	CIRCUIT BREAKER		MV	MEDIUM VOLTAGE
CCTV				
	CLOSED CIRCUIT TELEVISION		N	NATIONAL ELECTRICAL CODE
CKT	CONDUIT ONLY		NEC	NATIONAL ELECTRICAL CODE
COMB	COMBINATION		NIC	NOT IN CONTRACT
COMB	CONDUCTOR		NC NI	NORMALLY CLOSED
COND	CURRENT TRANSCORMER		NL	NIGHT LIGHT
CU	CORRER CORRER		NO	NORMALLY OPEN
CU	COPPER		NTS	NOT TO SCALE
dB	DECIBEL		OC	ON CENTER
DGP	DIGITAL GATHERING PANEL		OA	OUTSIDE DIAMETER
DISC	DISCONNECT		P	POLE
DL	DAMP LISTED		PA	PUBLIC ADDRESS
DWG	DRAWING		PB	PUSH BUTTON
DVR	DIGITAL VIDEO RECORDER		PE	PHOTOELECTRIC
E	EXISTING		PF	POWER FACTOR
EA	EACH		PH	PHASE
EC	ELECTRICAL CONTRACTOR		PNL	PANEL
EF	EXHAUST FAN		PR	PAIR
EG	EQUIPMENT GROUND		PRI	PRIMARY
EHC	ELECTRIC HEATING COIL		PT	POTENTIAL TRANSFORMER
ELEC	ELECTRIC OR ELECTRICAL		PVC	POLYVINYL CHLORIDE
ELEV	ELEVATOR		PWR	POWER
EM	EMERGENCY		QR	QUARTZ RESTRIKE
EMT	ELECTRIC METALLIC TUBING		R	EXISTING TO BE RELOCATED
EOL	F/A END OF LINE RESISTOR		REC	RECEPTACLE
EQUIP	EQUIPMENT		RGS	RIGID GALVANIZED STEEL
EWC	ELECTRIC WATER COOLER		RM	ROOM
EWH	ELECTRIC WATER HEATER		RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST		SCP	SECURITY CONTROL PANEL
F -•	FUSE		SEC	SECONDARY/SECOND
FA	FIRE ALARM		SEC	SECTION
FACP	FIRE ALARM CONTROL PANEL		SHT	SHEET
FBO	FURNISHED BY OTHERS		SPD	SURGE PROTECTIVE DEVICE
FC 	FOOTCANDLES		SPDT	SINGLE POLE, DOUBLE THROW
FDR	FEEDER		SQ.FT	SQUARE FEET
FLEX	FLEXIBLE		ST	SHUNT TRIP
FLR	FLOOR		STD	STANDARD
FLUOR	FLUORESCENT		SW	SWITCH
FO O	FIBER OPTIC		SWBD	SWITCHBOARD
G CALV	GROUND		TC	TIME CLOCK
GALV	GALVANIZED		TEL	TELEPHONE
GEN	GENERATOR		TEMP	TEMPERATURE
GFI	GROUND FAULT CIRCUIT INTERRUPTER		TELECOM	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		TGB	TELECOMMUNICATIONS GROUND BUS
GND	GROUND		TL	TWIST LOCK
HD 	HEAVY DUTY		TMGB	TELECOMMUNICATIONS MAIN GROUND B
HH 10.4	HAND HOLE		TR	TELECOMMUNICATIONS ROOM
AOA	HAND-OFF-AUTO		UC	UNDER COUNTER
HP .DE	HORSEPOWER		U/G	UNDER GROUND
HPF	HIGH POWER FACTOR		UH	UNIT HEATER
HPS	HIGH PRESSURE SODIUM		UL	UNDERWRITER LABORATORIES
-TT	HEIGHT		UNF	UNFUSED
HTR	HEATER		UNO	UNLESS NOTED OTHERWISE
D	INSIDE DIAMETER		UPS	UNINTERRUPTIBLE POWER SUPPLY
G	ISOLATED GROUND		UTP	UNSHIELDED TWISTED PAIR
MC	INTERMEDIATE GRADE METALLIC CONDUIT		V	VOLT
NCAND	INCANDESCENT		VFD	VARIABLE FREQUENCY DRIVE
J-BOX	JUNCTION BOX		VM	VOLTMETER
KCMIL	THOUSAND OF CIRCULAR MILLS		w	WATT
ΚVA	KILOVOLT AMPERE		W/	WITH
KW	KILOWATT		WH	WATT HOUR
KWH	KILOWATT HOUR		WLAN	WIRELESS LOCAL AREA NETWORK
	LIGHTNING ARRESTOR		WP	WEATHERPROOF (IN-USE TYPE REQUIRE
_A		11		WEATHERPROOF LOCKABLE ENCLOSURI
	LIQUIDTIGHT FLEXIBLE CONDUIT		WPL	WEATHERFROOF LOCKABLE ENGLOSOR
LFC	LIQUIDTIGHT FLEXIBLE CONDUIT LIGHTING		WPL	WATERTIGHT
LA LFC LTG LV				

MECHANICAL/PLUMBING COORDINATION THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 21, 22,AND 23 DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE COSTS IN THE DIVISION 26 PRICING TO CONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON THE ELECTRICAL DRAWINGS AND ON THE MECHANICAL AND PLUMBING DRAWINGS. PROVIDE COMPLETE WIRING, STARTERS, AND DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING

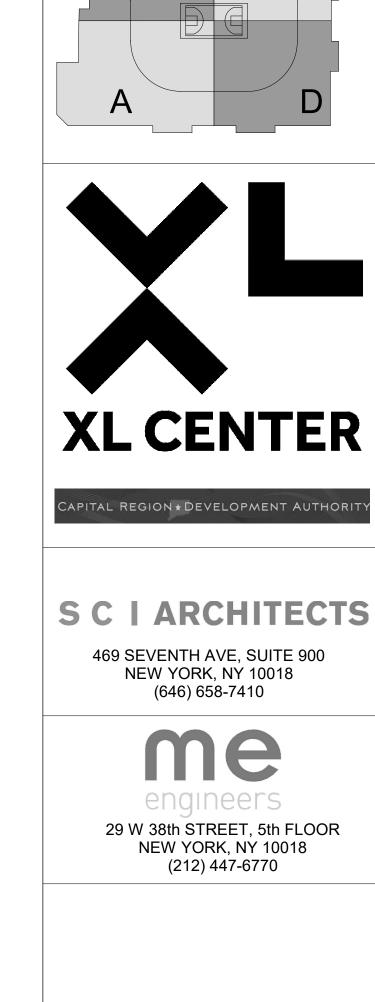
LIGHTING		EQUIPMENT
TRIP LIGHT		MOTOR
ALL MOUNTED LINEAR		MOTOR STARTER
ECESSED OR SURFACE MOUNTED 2'X4'		UN-FUSED DISCONNECT
ECESSED OR SURFACE MOUNTED 1'X4'		FUSED DISCONNECT
ECESSED OR SURFACE MOUNTED 2'X2'		CIRCUIT BREAKER
ALL MOUNTED FLOODLIGHT		BRANCH CIRCUIT OR POWER PANEL
ALL MOUNTED SCONCE		LIGHTING CONTROL PANEL
OWNLIGHT	(M)	METER
RACK WITH TRACK HEADS		CURRENT TRANSFORMER
XIT SIGN. MOUNTING, FACES AND		GROUND
IRECTIONAL ARROWS (CHEVRONS) PER LANS	Table 1	DELTAWYE WITH GROUND
MERGENCY LIGHTING UNIT	T	POWER TRANSFORMER
ACANCY SENSOR - CEILING MOUNTED		FUSE & SWITCH
ACANCY SENSOR - WALL MOUNTED		
CCUPANCY SENSOR - CEILING MOUNTED		CIRCUIT BREAKER
CCUPANCY SENSOR - WALL MOUNTED	*	DRAWOUT CIRCUIT BREAKER
CCUPANCY SENSOR - COMBINATION WALL	50	INVERSE TIME/OVERCURRENT RELAY (SOLID STATE WITH COMMUNICATION)
WITCH	——————————————————————————————————————	DRAWOUT 15 KV BREAKER
ACANCY SENSOR - COMBINATION WALL		KIRK-KEY INTERLOCK
WITCH	G	GROUND FAULT INTERRUPTER BREAKER
ASTER SWITCH		CIRCUIT MONITORING DEVICE
GHT SWITCH, REFER TO CONTROL DETAILS ND SCHEDULES FOR TYPE	D	GIRCUIT INIONITORING DEVICE
EILING MOUNTED DAYLIGHT SENSOR		MECHANICAL EQUIPMENT IDENTIFICATION
WITCH WITH PILOT LIGHT	\/,	TAG
	SPD	SURGE PROTECTIVE DEVICE
OOR JAMB SWITCH	\$ ™	THERMAL OVERLOAD
L924 EMERGENCY AUTOMATIC TRANSFER EVICE		
GHTING CONTROL KEYPAD	\$ ^{TO}	MOTOR AND THERMAL OVERLOAD
IMMER SWITCH		AUTOMATIC TRANSFER SWITCH
		ACTOMATIC TRANSPERSOR
		RACEWAY LEGEND
OWER CASE LETTERS AT LIGHT SWITCHES		
ND SENSORS DENOTE SWITCHING ZONE		
DWER CASE LETTERS AT LIGHT SWITCHES.		BRANCH CIRCUIT HOMERUN TO PANELBOARD
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE	A-2.4	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT
	A-2.4	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER.
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE CCUPANCY SENSOR - AUTO ON/OFF	A-2.4	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE	A-2.4 AX	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE CCUPANCY SENSOR - AUTO ON/OFF ACANCY SENSOR - AUTO OFF, MANUAL ON LL LIGHT SWITCHES ARE LOW VOLTAGE,	A-2.4 AX	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE CCUPANCY SENSOR - AUTO ON/OFF ACANCY SENSOR - AUTO OFF, MANUAL ON LL LIGHT SWITCHES ARE LOW VOLTAGE, NO.	A-2.4 A-2.4 A A-2.4	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE CCUPANCY SENSOR - AUTO ON/OFF ACANCY SENSOR - AUTO OFF, MANUAL ON LL LIGHT SWITCHES ARE LOW VOLTAGE,	A-2.4 A-2.4 A-2.4	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE A)
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE CCUPANCY SENSOR - AUTO ON/OFF ACANCY SENSOR - AUTO OFF, MANUAL ON LL LIGHT SWITCHES ARE LOW VOLTAGE, NO. EILING SENSORS SHALL HAVE 360 DEGREE ANGE WITH MIN 1500 SF COVERAGE. ENSORS TECHNOLOGY SHALL BE PER	A:2.4 A:2.4	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE A) UNDERGROUND FEEDER
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE CCUPANCY SENSOR - AUTO ON/OFF ACANCY SENSOR - AUTO OFF, MANUAL ON LL LIGHT SWITCHES ARE LOW VOLTAGE, NO. EILING SENSORS SHALL HAVE 360 DEGREE ANGE WITH MIN 1500 SF COVERAGE.	A-2.4 A A-2.4 A A A A A A A	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE A) UNDERGROUND FEEDER UNDERGROUND BRANCH CIRCUIT HOMERUN
DWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT DNE CCUPANCY SENSOR - AUTO ON/OFF ACANCY SENSOR - AUTO OFF, MANUAL ON LL LIGHT SWITCHES ARE LOW VOLTAGE, NO. EILING SENSORS SHALL HAVE 360 DEGREE ANGE WITH MIN 1500 SF COVERAGE. ENSORS TECHNOLOGY SHALL BE PER ONTROL SCHEDULE OR AS NOTED. WHERE DT NOTED, ASSUME SENSOR TO BE	A-2.4 A-2.4 A-2.4 A-2.4	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE A) UNDERGROUND FEEDER UNDERGROUND BRANCH CIRCUIT HOMERUN CONDUIT UP
OWER CASE LETTERS AT LIGHT SWITCHES, XTURES, AND SENSORS INSIDE ARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ONE CCUPANCY SENSOR - AUTO ON/OFF ACANCY SENSOR - AUTO OFF, MANUAL ON LL LIGHT SWITCHES ARE LOW VOLTAGE, NO. EILING SENSORS SHALL HAVE 360 DEGREE ANGE WITH MIN 1500 SF COVERAGE. ENSORS TECHNOLOGY SHALL BE PER ONTROL SCHEDULE OR AS NOTED. WHERE	A-2.4 A-2.4 A-2.4 A-2.4 A A A A A A A A A A	NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER. BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE A) UNDERGROUND FEEDER UNDERGROUND BRANCH CIRCUIT HOMERUN CONDUIT UP CONDUIT DOWN
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3. 'R' DENOTES RELOCATED DEVICE.

INSTALLATIONS.

4. 'TYP' DENOTES TYPICAL FOR SIMILAR DEVICES OR



NOT FOR

PH2 - ISSUED FOR 75% SD

DESCRIPTION REVISIONS/ ISSUES CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK DO NOT SCALE THE DRAWINGS

ELECTRICAL DRAWING LIST - PHASE 2

LEVEL 48 - ELECTRICAL DEMOLITION - PHASE 2

FIRE ALARM DRAWING LIST - PHASE 2

Sheet Name

E-000.PH2 ELECTRICAL LEGEND, DETAILS & NOTES - PHASE 2

ELECTRICAL SCHEDULES I - PHASE 2

E-201.PH2 LEVEL 31 - ELECTRICAL CONSTRUCTION - PHASE 2 E-202.PH2 LEVEL 48 - ELECTRICAL CONSTRUCTION - PHASE 2

FA-202.PH2 LEVEL 48 - FIRE ALARM CONSTRUCTION - PHASE 2 FA-201.PH2 LEVEL 31 - FIRE ALARM CONSTRUCTION - PHASE 2

FA-600.PH2 FIRE ALARM ONE-LINES I - PHASE 2

E-101.PH2 LEVEL 31 - ELECTRICAL DEMOLITION - PHASE 2

E-600.PH2 ELECTRICAL ONE-LINES I - PHASE 2

Sheet Name

Sheet Number

Sheet Number

12/12/2020 1:30:05 AM

XL CENTER

1 CIVIC CENTER PLAZA HARTFORD, CT

ELECTRICAL LEGEND, DETAILS & NOTES - PHASE 2

1/8" = 1'-0"

		XL CENTER RENOVATION_NY20014		ME	E Engin	eers In	C.				PANEL:	EHNW31	
		480Y/277		BUS:	200) Amps		Copper			SECTION:	1 OF 1	
		3PHASE,4WIRE+GND		MAINS:	200) AMP M	AIN BK	R			LOCATION:		
												EXISTING	
NOT	TES:					OPTION	S:				DATE:	10/28/20	
											FED FROM:		
											MOUNTING :		
											ISSUE:		
N	ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID N
	X	EXISTING LOAD		1	20	1	Α	2	20	1		SPARE	Р
	Х	EXISTING LOAD		1	20	3	В	4	20	1		SPARE	Р
	Х	EXISTING LOAD		1	20	5	С	6	20	1		EXISTING LOAD	X
	Р	SPARE		1	20	7	Α	8	20	1		SPARE	Р
	Р	SPARE		1	20	9	В	10	20	1		SPARE	Р
	Р	SPARE		1	20	11	С	12	20	1		SPARE	Р
	Р	SPARE		1	20	13	Α	14	20	1		SPARE	Р
	Р	SPARE		1	20	15	В	16	20	1		SPARE	Р
	Р	SPARE		1	20	17	С	18	20	1		SPARE	Р
	Р	SPARE		1	20	19	Α	20	20	1		SPARE	Р
	Р	SPARE		1	20	21	В	22	20	1		SPARE	Р
	Р	SPARE		1	20	23	С	24	20	1		SPARE	Р
	X	(L CENTER RENOVATION_NY20014.xls						1			ı		

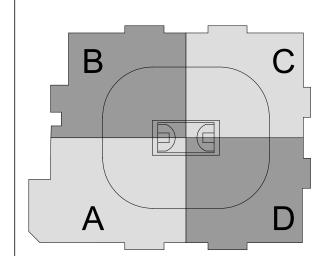
	XL CENTER RENOVATION_NY20014		ME	Engin	eers Ir	IC.				PANEL:	LB-5 (LP-5)	
	208Y/120	Е	BUS:	225	Amps		Copper			SECTION:	1 OF 1	
	3PHASE,4WIRE+GND	MA	AINS:	NS: 200 AMP MAIN BKR						LOCATION:	LEVEL 31	
NOTES:	PANEL REPLACED EXISITNG				OPTION	S:				DATE:	12/07/20	
	EXISITNG PANEL TO BE RETURNED TO OWNER									FED FROM:		
										MOUNTING :	SURFACE	
										ISSUE:		
N ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID N
X	RECEPT WEST ARENA (SB CONTROL)		1	20	1	Α	2	30	3		LIGHTING CATWALK WEST	X
X	LIGHTS CAT WALK WEST		1	20	3	В	4		>			X
X	ICE MACH MECH RM RECEPT		1	20	5	С	6		>			X
X	RECEPT MECH ROOM		1	20	7	Α	8	20	1		HOT WATER RECIRC PUMP	Х
Х	TO STARS DRESS RM AREA "F"		1	20	9	В	10	20	1		LTG CATWALK WEST ELEV	Х
X	RECEPT WEST ARENA 31 RINK WALL		1	20	11	С	12	20	1		RECEPT COL "C" & "D"	Х
X	RECEPT WEST DRINKING FOUNTAIN		1	20	13	Α	14	20	1		LTG BRINE TUN, CKT FOR CHILLER	X
X	RECEPT ENGINEERING OFFICE		1	20	15	В	16	20	1		LTG & RECEPT VISIT LOCER RM	X
X	RECEPT KARENS WIREMOLD		1	20	17	С	18	20	1		LTG AND RECPT STARS DRESS RM	X
X	RECEPT HTFD RM CARLS OFFCIE		1	20	19	Α	20	20	1		LTG&RECEPT STAR DRESS RM	X
X	LTG, RECEPT VISTOR LOCK RM		1	20	21	В	22	20	1		LTG,RECEPT STAR DRESS RM AREA	X
X	LTG, RECEPT VISTOR LOCK RM		1	20	23	С	24	20	1		LTG DWYER UNIT	X
X	LTG, RECEPT VIST LOCK RM EAST		1	20	25	A	26	20	1		EXISTING LOAD	X
X	RECEPT EAST ARENA NW		1	20	27	В	28	20	1		EXISTING LOAD	X
X	RECEPT EAST ARENA NW		1	20	29	C	30	20	2		ZAMBON SUBMERSIBLE PUMP	X
X	RECEPT, DF STOR, DRINK FOUNTAIN		1	20	31	Α	32		>			X
X	LTG, RECEPT VISTOR LOCK RM		1	20	33	В	34	20	1		SUMP PMP BRINE PIPE TUNNEL	X
X	SMOKE DETECTOR TO DGP PNL		1	20	35	C	36	30	3		WEST ELEV DOR CONTROL	X
X	LTG SHOP AND KARLS OFFCE		1	20	37	A	38		>			X
X	OPEN 60A		2	60	39	В	40		>			X
X	OI LIN OUA		<		41	C	42		1		NW SPACE HEATER (CEILING)	X
P	SPARE		1	20	43	^	44	20	1		SPARE	P
Р	SPARE		1	20	45	A B	46	20	1		SPARE	Р
P	SPARE		1				 		1		SPARE	P
P			1	20	47	C	48	20	1			
P	SPARE		1	20	49	A	50	20	1		SPARE	Р
P	SPARE		1	20	51	В	52	20	1		SPARE	Р
P	SPARE		1	20	53	C	54	20	1		SPARE	P
•	SPARE		1	20	55	Α	56	20	1		SPARE	Р
P	SPARE		1	20	57	В	58	20	1		SPARE	P
P	SPARE XL CENTER RENOVATION_NY20014.xls		1	20	59	С	60	20	1		SPARE	Р

	XL	. CENTER RENOVATION_NY20014		ME	E Engin	eers Ir	nc.				PANEL:	RED PANEL	
		480Y/277		BUS:		Amps		Copper			SECTION:	1 OF 1	
			MAINS:							LOCATION:			
												EXISTING	
NOTE	S:					OPTION	IS:				DATE:	10/28/20	
											FED FROM:		
											MOUNTING :		
											ISSUE:		
N	ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID
	X	EXISTING LOAD		1	20	1	Α	2	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	3	В	4	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	5	С	6	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	7	Α	8	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	9	В	10	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	11	С	12	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	13	Α	14	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	15	В	16	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	17	С	18	20	1		EXISTING LOAD	X
	Χ	EXISTING LOAD		1	20	19	Α	20	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	21	В	22	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	23	С	24	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	25	Α	26	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	27	В	28	20	1		EXISTING LOAD	X
	Χ	EXISTING LOAD		1	20	29	С	30	20	1		EXISTING LOAD	X
	Χ	EXISTING LOAD		1	20	31	Α	32	20	1		EXISTING LOAD	X
	Χ	EXISTING LOAD		1	20	33	В	34	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	35	С	36	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	37	Α	38	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	39	В	40	20	1		EXISTING LOAD	X
	Х	EXISTING LOAD		1	20	41	С	42	20	1		EXISTING LOAD	X

	XL CENTER RENOVATION_NY20014		ME	Engin	eers In	IC.				PANEL:	HNW31		
	480Y/277		BUS:	200	Amps		Copper			SECTION:	1 OF 1		
	3PHASE,4WIRE+GND		MAINS:		AMP M	AIN BK				LOCATION:			
											EXISTING		
NOTES:	<u>'</u>				OPTION	S:				DATE:	10/28/20		
										FED FROM:			
										MOUNTING :			
										ISSUE:			
N ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID	N
X	EXISTING LOAD		1	20	1	Α	2	20	1		EXISTING LOAD	X	
X	EXISTING LOAD		1	20	3	В	4	20	1		EXISTING LOAD	X	
X	EXISTING LOAD		3	20	5	С	6	20	3		EXISTING LOAD	X	
X			<		7	Α	8		>			X	
X			<		9	В	10		>			X	
Р	SPARE		1	20	11	С	12	20	3		EXISTING LOAD	X	
X	EXISTING LOAD		3	20	13	Α	14		>			X	
X			<		15	В	16		>			X	
X			<		17	С	18	20	1		SPARE	Р	
Р	SPARE		1	20	19	Α	20	20	3		EXISTING LOAD	X	
Р	SPARE		1	20	21	В	22		>			X	
Р	SPARE		1	20	23	С	24		>			X	
Р	SPARE		1	20	25	Α	26	20	1		LNW31	S	
Р	SPARE		1	20	27	В	28	20	1		SPARE	Р	
Р	SPARE		1	20	29	С	30	20	1		SPARE	Р	
Р	SPARE		1	20	31	Α	32	20	1		SPARE	Р	
Р	SPARE		1	20	33	В	34	20	1		SPARE	Р	
Р	SPARE		1	20	35	С	36	20	1		SPARE	Р	
Р	SPARE		1	20	37	Α	38	20	1		SPARE	Р	
Р	SPARE		1	20	39	В	40	20	1		SPARE	Р	
Р	SPARE		1	20	41	С	42	20	1		SPARE	Р	

		XL CENTER RENOVATION_NY20014	N_NY20014 ME Engineers Inc.								PANEL:	LNW31	
		208Y/120		BUS:	100) Amps		Copper			SECTION:	1 OF 1	
		3PHASE,4WIRE+GND		MAINS:	100) AMP M	AIN BK				LOCATION:		
												EXISTING	
0	TES:					OPTION	S:				DATE:	10/28/20	
											FED FROM:		
											MOUNTING :		
											ISSUE:		
l	ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID
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	X	EXISTING LOAD		1	20	3	В	4	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	5	С	6	60	3		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	7	Α	8		>			X
	X	EXISTING LOAD		1	20	9	В	10		>			X
	X	EXISTING LOAD		1	20	11	С	12	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	13	Α	14	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	15	В	16	20	1		SPARE	Р
	X	EXISTING LOAD		1	20	17	С	18	20	1		SPARE	Р
	X	EXISTING LOAD		1	20	19	Α	20	20	1		SPARE	Р
	X	EXISTING LOAD		1	20	21	В	22	20	1		SPARE	Р
	Р	SPARE		1	20	23	С	24	20	1		SPARE	Р
	X	EXISTING LOAD		1	20	25	Α	26	20	1		SPARE	Р
	Р	SPARE		1	20	27	В	28	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	29	С	30	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	31	Α	32	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	33	В	34	20	1		EXISTING LOAD	X
	X	EXISTING LOAD		1	20	35	С	36	20	1		EXISTING LOAD	X
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	Р	SPARE		1	20	39	В	40	20	1		SPARE	Р
	X	EXISTING LOAD		1	20	41	С	42	20	1		EXISTING LOAD	X

	XL CENTER RENOVATION_NY20014		ME	Engir	neers In	C.				PANEL:	DP31-MECH	
	480Y/277		BUS:		0 Amps		Copper			SECTION:	1 OF 1	
	3PHASE,4WIRE+GND		MAINS:		M.L.O.					LOCATION:	LEVEL 31	
	·									NEW PANEL		
NOTES: N	IEW PANEL TO FEED MCC LOADS				OPTIONS	3:				DATE:	12/02/20	
					BOLT IN E	BRANCH	BKRS			FED FROM:	MS-1	
					LAMINATE	ED NAME	PLATE			MOUNTING :	SURFACE	
					CONCEAL	ED HING	SE COVER			ISSUE:		
N ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID N
M	SUPPLY FAN V-1	11080	3	60	1	Α	2	20	3	3047	CONDENSATE PUMP #3	M
M		11080	<		3	В	4		>	3047		M
M		11080	<		5	С	6		>	3047		M
M	SUPPLY FAN S-11	7479	3	40	7	Α	8	20	3		FAN E-1	M
M		7479	<		9	В	10		>			M
M		7479	<		11	С	12		>			M
M	SUPPLY FAN S12	7479	3	40	13	Α	14	20	3	2105	RETURN FAN R12	M
M		7479	<		15	В	16		>	2105		M
M		7479	<		17	С	18		>	2105		M
M	FREIGHT SUMP		3	20	19	Α	20	20	3	2105	FAN R11	M
M			<		21	В	22		>	2105		M
M			<		23	С	24		>	2105		M
M	ADMIN UNIT HEATER		3	20	25	Α	26	20	3		PANTRY EXH E-12	M
M			<		27	В	28		>			M
M			<		29	С	30		>			M
M	OH DOOR WEST VOMITORY		3	20	31	Α	32	20	3		HEATERS VISIT TEAM	M
M			<		33	В	34		>			M
M			<		35	С	36		>			M
M	SEWAGE EJECTOR PUMP P-2		3	20	37	Α	38	60	3	12000	ELECTRIC WATER HEATER	M
M			<		39	В	40		>	12000		M
M			<		41	С	42		>	12000		M
M	GEF EF-10		3	20	43	Α	44	20	3		TEF EF-8	M
M			<		45	В	46		>			M
M			<		47	С	48		>			M
M	SPLY FAN SF-14		3	20	49	Α	50	20	3		SUPPLY FAN V3	M
M			<		51	В	52		>			M
M			<		53	С	54		>			M
M	RELIEF FAN E-3		3	20	55	Α	56	20	1		SPARE	Р
M			<		57	В	58	20	1		SPARE	Р
M			<		59	С	60	20	1		SPARE	Р





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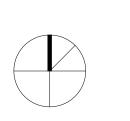
S C I ARCHITECTS 469 SEVENTH AVE, SUITE 900 NEW YORK, NY 10018 (646) 658-7410

29 W 38th STREET, 5th FLOOR NEW YORK, NY 10018 (212) 447-6770

NOT FOR CONSTRUCTION

PH2 - ISSUED FOR 75% SD DESCRIPTION

REVISIONS/ ISSUES CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCFEDING WITH THE WORK DO NOT SCALE THE DRAWINGS

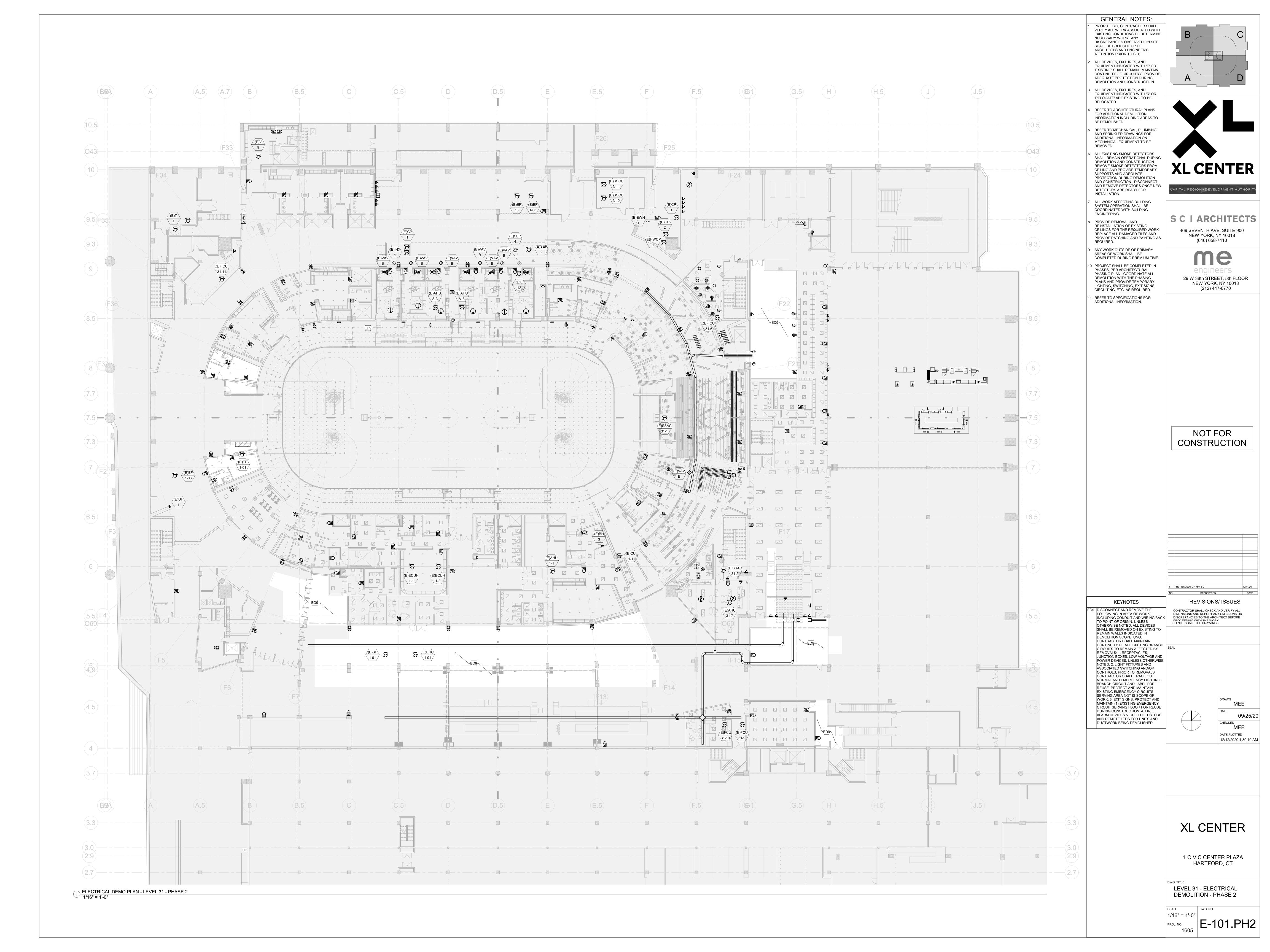


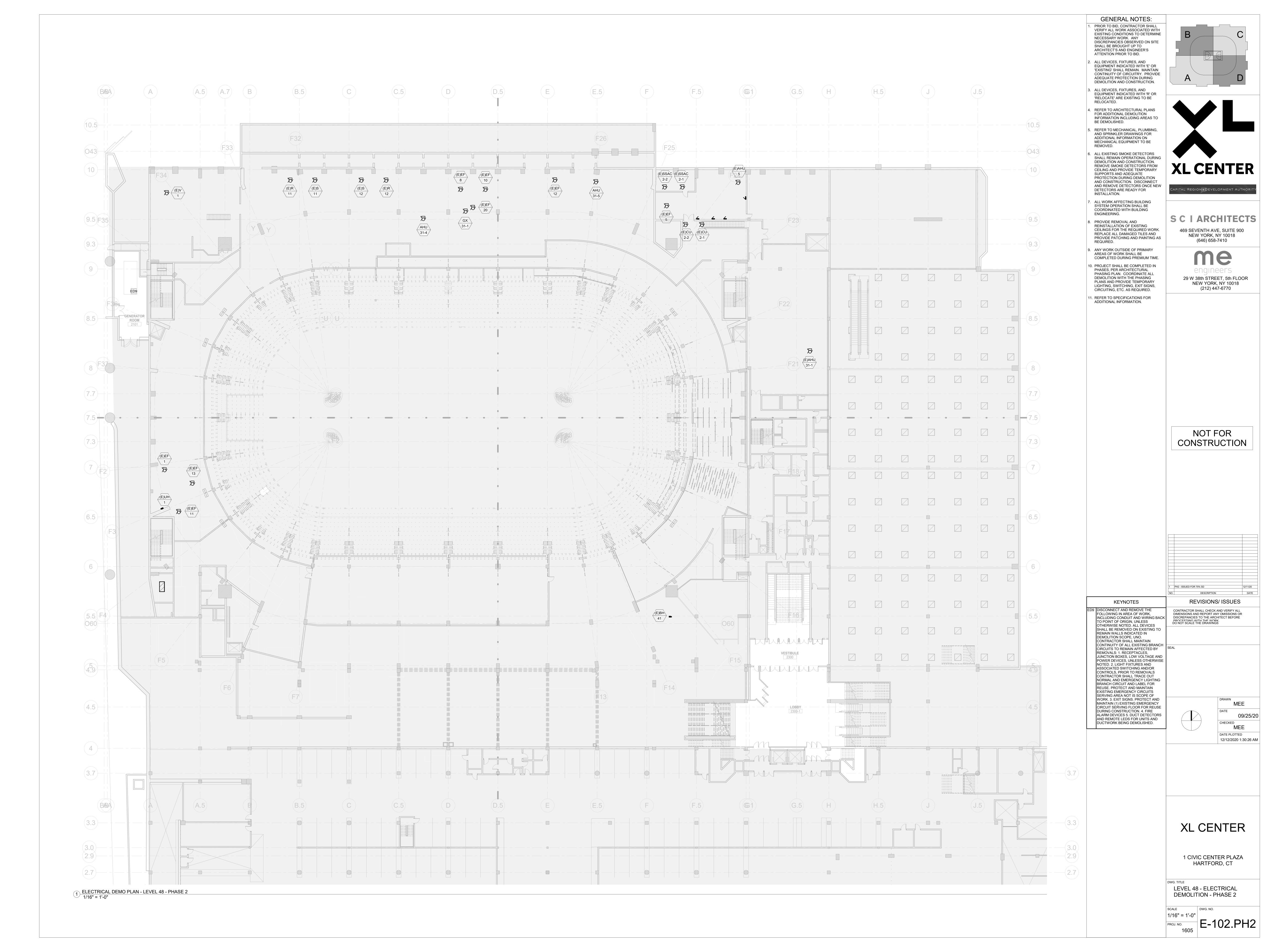
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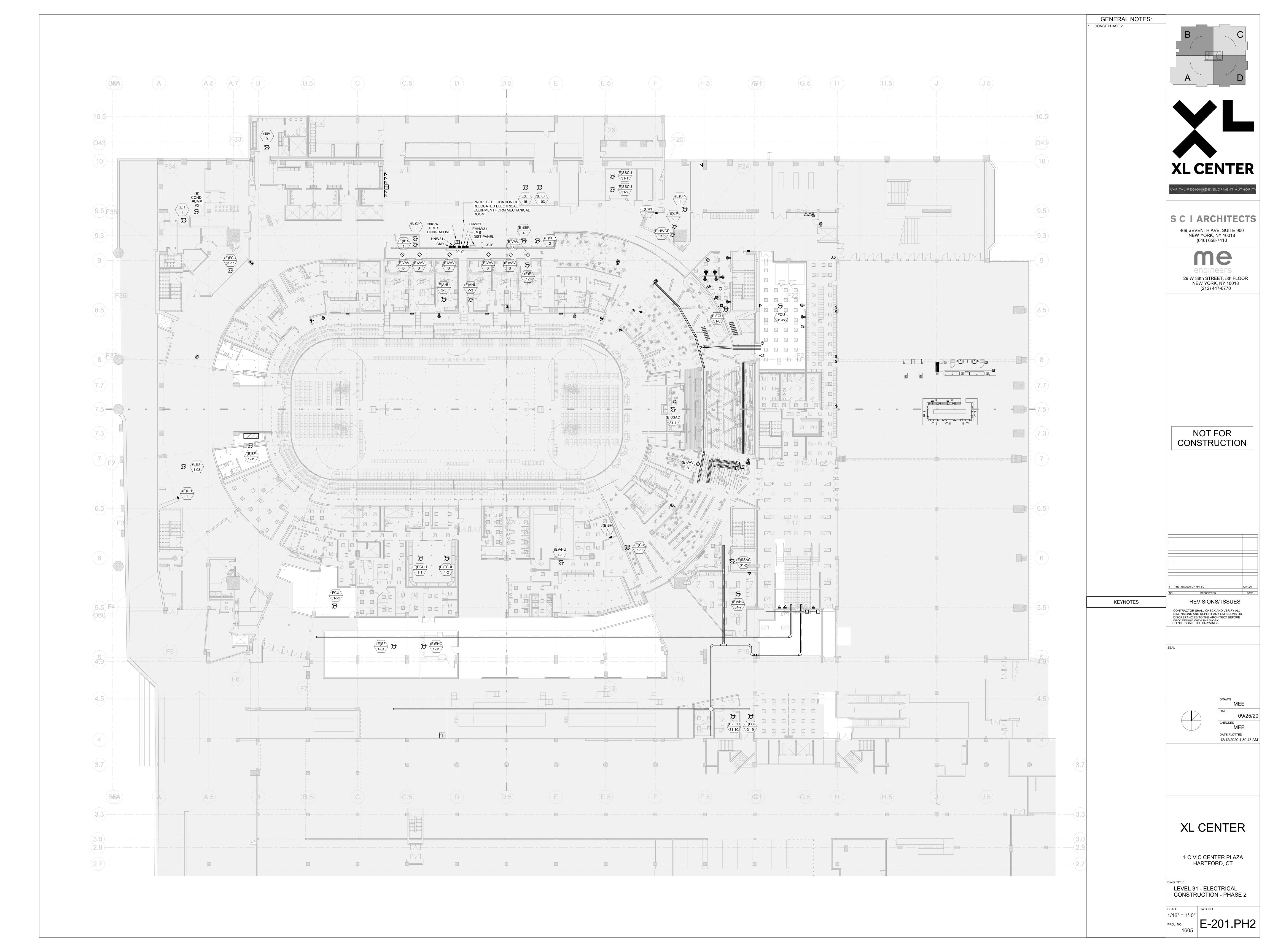
XL CENTER

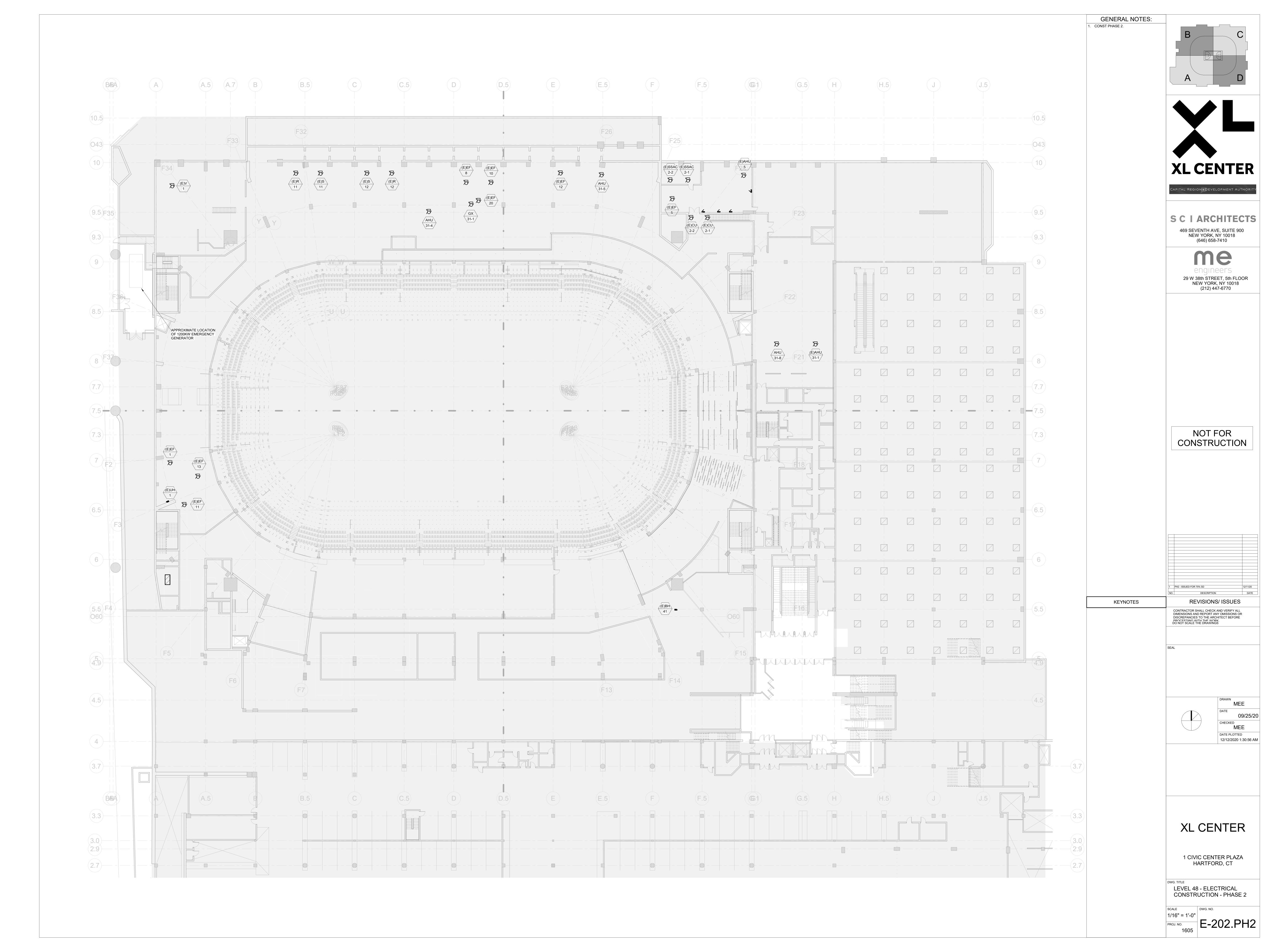
1 CIVIC CENTER PLAZA HARTFORD, CT

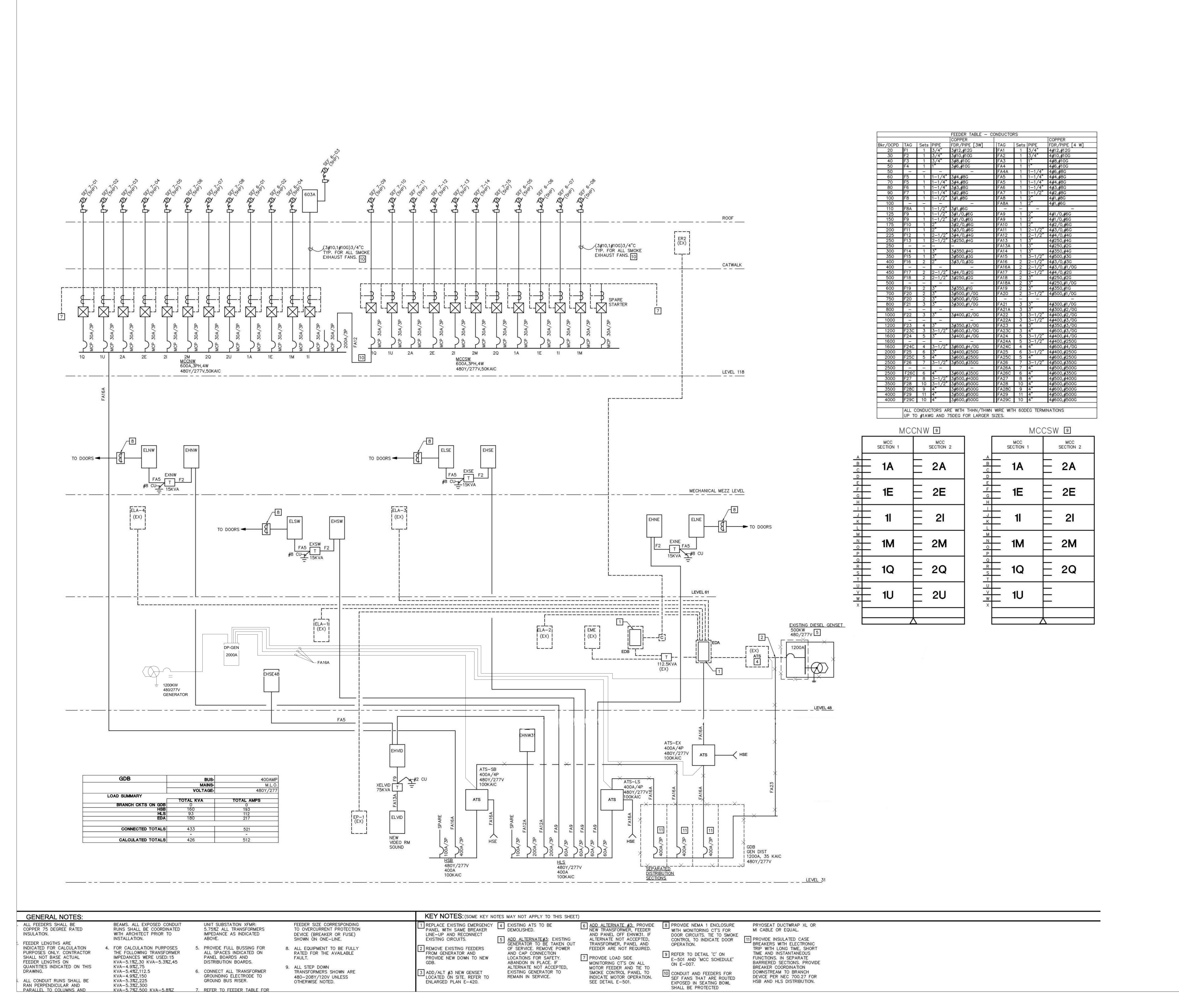
ELECTRICAL SCHEDULES I - PHASE 2

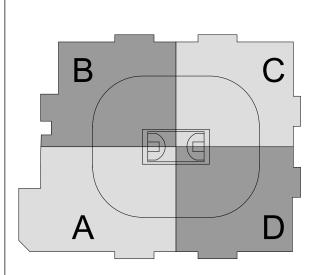














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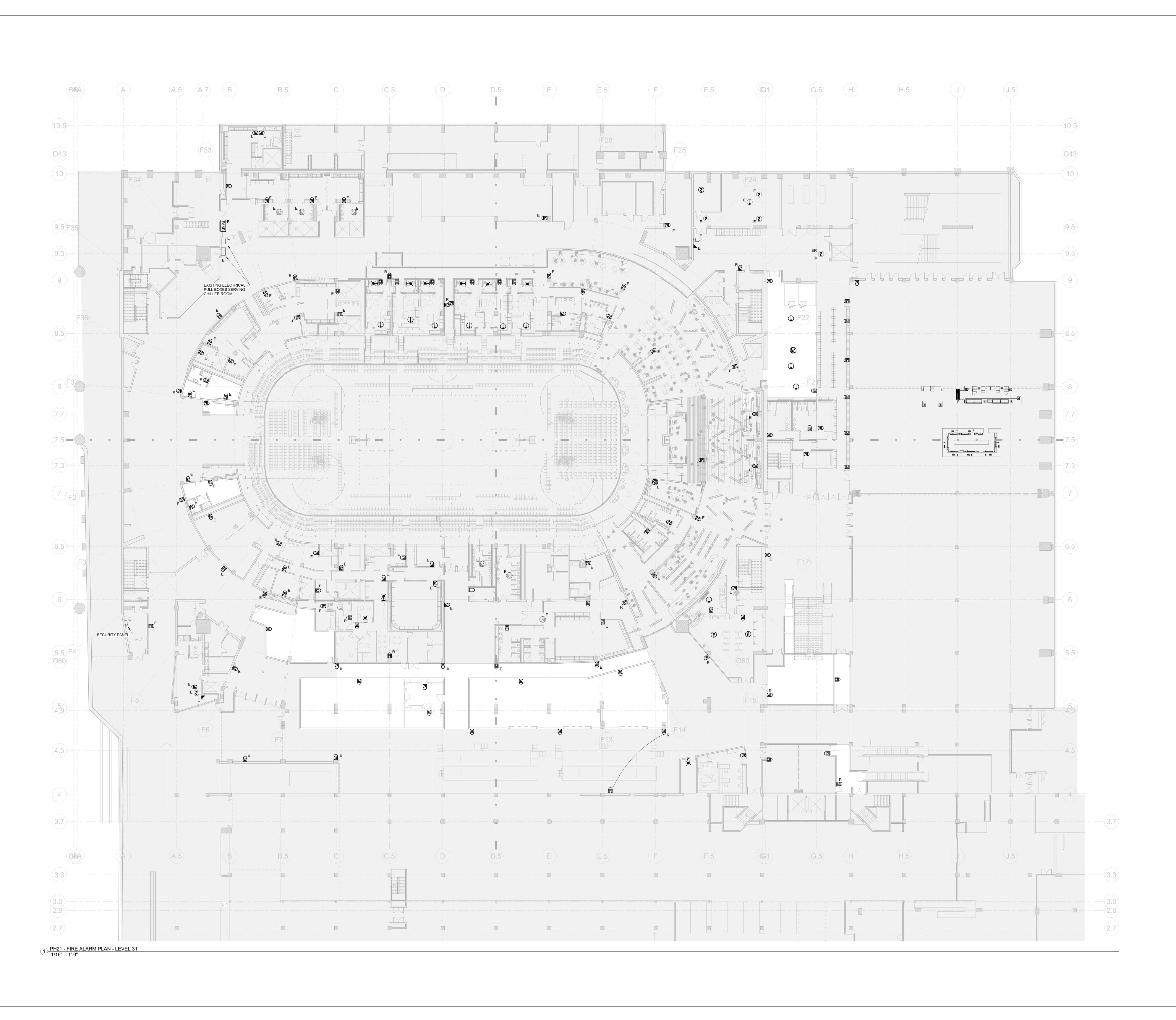
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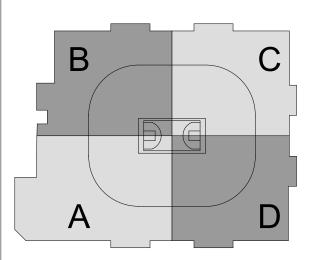
XL CENTER

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ELECTRICAL ONE-LINES I -PHASE 2

1/8" = 1'-0" **E-600.P**







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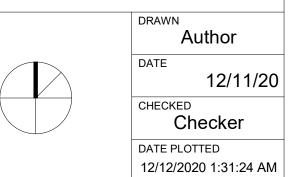
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PH2 - ISSUED FOR 75% SD 12/11/20

DESCRIPTION DATE

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XL CENTER

1 CIVIC CENTER PLAZA HARTFORD, CT

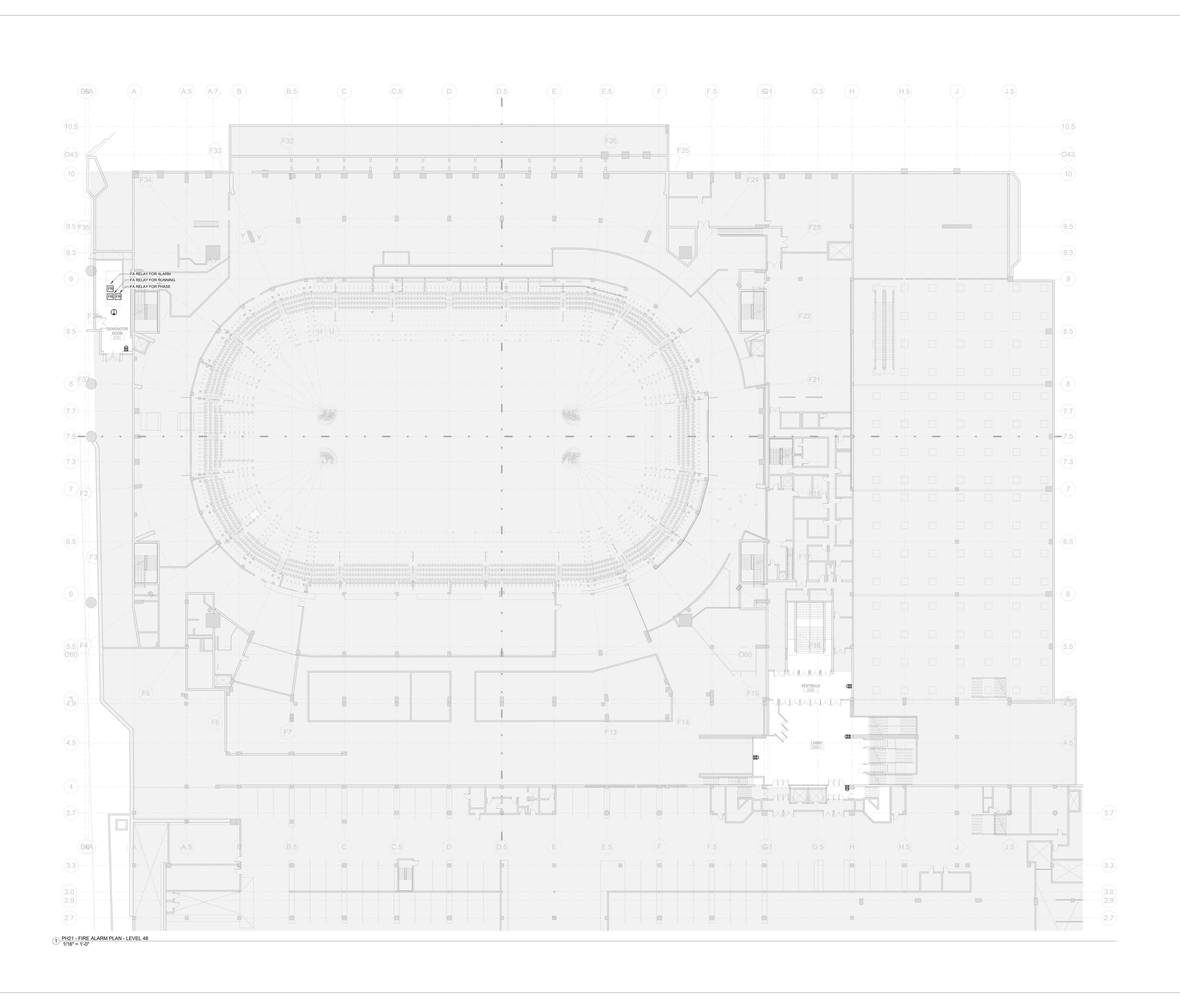
LEVEL 31 - FIRE ALARM
CONSTRUCTION - PHASE 2

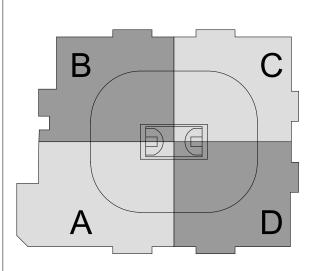
DWG. NO.

1/16" = 1'-0"

FA-201.PH2

1605







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1 PH2 - ISSUED FOR 75% SD 12/11/20
NO. DESCRIPTION DATE

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEFDING WITH THE WORK DO NOT SCALE THE DRAWINGS

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Author

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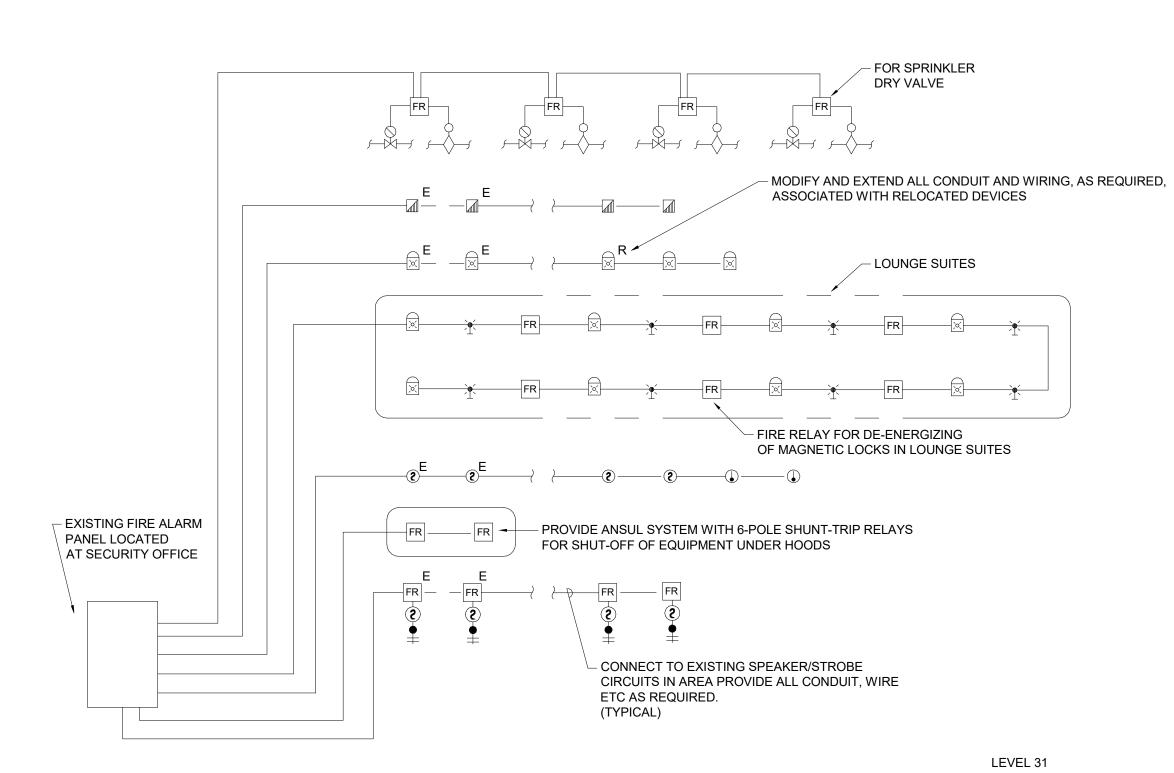
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1 CIVIC CENTER PLAZA HARTFORD, CT

XL CENTER

LEVEL 48 - FIRE ALARM
CONSTRUCTION - PHASE 2

SCALE | DWG. NO. | 1/16" = 1'-0" | FA-202.PH



FIRE ALARM RISER DIAGRAM **NOTES**

1. ALL NEW FIRE ALARM DEVICES SHALL BE TESTED IN ACCORDANCE WITH NFPA 72 AND WITNESSED BY OSFM

SEQUENCE OF OPERATION SYSTEM TROUBLE WATER FLOW PULL STATION DUCT SMOKE DETECTOR SMOKE DETECTOR ELEVATOR LOBBY SMOKE DETECTOR EXIT LEVEL ELEVATOR LOBBY SMOKE DETECTOR OTHER THAN EXIT LEVEL ELEVATOR EQUIPMENT ROOM SMOKE DETECTOR ELEVATOR TOP SHAFT SMOKE DETECTOR ELEVATOR EQUIPMENT ROOM HEAT DETECTOR HIGH LEVEL REFRIGERANT LEVEL REFRIGERANT MONITORING SYSTEM MALFUNCTION NOTE: SOME DEVICES SHOWN MAY NOT APPLY TO THIS PROJECT.

GENERAL NOTES

1. REFER TO PLAN DRAWINGS FOR DEVICE LOCATIONS.

- 2. ALL DEVICES INDICATED WITH 'E' OR 'EXISTING' SHALL REMAIN. MAINTAIN CONTINUITY OF CIRCUITRY. PROVIDE ADEQUATE PROTECTION DURING DEMOLITION AND CONSTRUCTION.
- 3. ALL DEVICES INDICATED WITH 'R' OR 'RELOCATE' ARE EXISTING TO BE

RELOCATED.

- 4. DIVISION 26 SHALL BE RESPONSIBLE FOR FILING AND OBTAINING APPROVAL OF ALL APPROPRIATE AUTHORITIES FOR SYSTEM, INCLUDING PAYING ALL ASSOCIATED FEES, INCLUDING OBTAINING SERVICES OF A CONNECTICUT STATE LICENSED PROFESSIONAL ENGINEER. WORK SHALL NOT BE CONSIDERED COMPLETE UNLESS ALL NECESSARY FILING, TESTS, AND INSPECTIONS ARE COMPLETED AND APPROVED.
- 5. ALL NEW FIRE ALARM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING SYSTEM AND SHALL BE INSTALLED UNDER DIRECT SUPERVISION OF EXISTING SYSTEM SUPPLIER (JCI CHRIS LETT 860-602-3179) WHO SHALL WARRANTY ALL WORK FOR (1)
- 6. ALL WIRING SHALL BE TEFLON INSULATED AND JACKETED, 2HR RATED. CABLE SHALL BE RATED 600 VOLT AND SHALL BE BSA APPROVED. PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES. ROUTE ALL WIRING IN CONDUIT.
- 7. EXACT ROUTING OF FIRE ALARM WIRING TO BE COORDINATED IN FIELD.
- 8. QUANTITY OF DEVICES ON ONE LOOP SHALL BE PER MANUFACTURER'S RECOMMENDATION. 9. LOCATE ALL STROBES 6'-8" TO BOTTOM
- 10. PROVIDE SEPARATE NOTIFICATION CIRCUITS FOR SPEAKER AND STROBE DEVICES. ALL NOTIFICATION CIRCUITS SHALL BE TWO HOUR PROTECTIVE CIRCUIT

ABOVE FINISHED FLOOR OR 6" TO CENTER

OR IN CONDUIT PER NFPA 72. 11. STROBE SHALL DELIVER A MINIMUM U.L. 1971 LISTED EFFECTIVE INTENSITY OF 75 CANDELA (AND SHALL BE COMPATIBLE WITH BASE BLDG. FIRE ALARM SYSTEM) WITH NO MORE THAN A 225MA DRAW. 15 CANDELA U.L. 1971 LISTED/75 CANDELA NEAR AXIS STROBES (115MA DRAW) SHALL BE UTILIZED FOR SPACE WITH NO DIMENSION GREATER THAN 20 FEET.

12. PROVIDE MONITORING MODULES, CONTROL

MODULES, END SWITCHES, LED STATUS LIGHTS, SELECTOR SWITCHES, PRINTED CIRCUIT CARDS, PROGRAMMING, AND ALL APPURTENANCES AS REQUIRED.

13. COORDINATE EXACT LOCATION AND

QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH DIVISION 23. DIVISION 26

- SHALL HARD WIRE TO RELAY STARTER. 14. COORDINATE EXACT LOCATION AND QUANTITY OF ALL FIRE SMOKE DAMPERS
- WITH DIVISION 23. 15. FIRE ALARM CONTRACTOR TO PROVIDE INTERFACE TO ELECTRICALLY UNLOCK ALL ELECTRICALLY HELD DOORS WITH CARD READER ACCESS. 16. ALL VISUAL DEVICES SHALL BE
 - SYNCHRONIZED. 17. PROVIDE END-OF-LINE DEVICES AS REQUIRED.

17. DIVISION 26 SHALL FIRE STOP ALL

PENETRATIONS THROUGH FIRE RATED PARTITIONS AND SLABS. 18. RUN RIGID CONDUIT WHERE NOT CONCEALED IN CEILINGS AND WHERE REQUIRED BY ALL APPLICABLE CODES, ALL

IDENTIFIED AT THE FACP.

19. ALL CONDUITS SHALL BE GROUNDED BY MEANS CONFORMING WITH THE NATIONAL ELECTRICAL CODE WITH A GROUND CONDUCTOR EQUAL IN SIZE TO THE LARGEST CONDUCTOR USED IN THE SYSTEM; BUT IN NO CASE SHALL THE GROUND CONDUCTOR BE SMALLER THEN #10 AWG. ALL CONDUITS SHALL BE RIGID STEEL CONDUIT. ALL CONDUITS AND

WIRING SHALL BE COLOR CODED AND

- JUNCTION BOXES SHALL BE PAINTED RED. 20. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- BELOW FINISHED CEILING, WHICHEVER IS 21. ALL ANNUNCIATING DEVICES SHALL BE COORDINATED WITH ARCHITECT.
 - 22. TESTING AND FINAL CONNECTION OF CONTROL PANELS AND PROGRAMMING OF THE FIRE ALARM SYSTEM SHALL BE MADE BY THE BUILDING FIRE ALARM VENDOR.
 - 23. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR THE SYSTEM, INCLUDING WIRING DIAGRAMS, CATALOG CUTS OF ALL DEVICES, SYSTEM RISER DIAGRAM, AND SEQUENCE OF OPERATION.

- TESTING AND FINAL CONNECTION OF CONTROL PANEL SHALL BE MADE BY THE BASE BUILDING FIRE ALARM VENDOR IN COORDINATION WITH THIS CONTRACTOR.
- CHECK-OUT AND PROGRAMMING OF THE FIRE ALARM SYSTEM SHALL BE MADE BY FIRE ALARM VENDOR (JCI CHRIS LETT 860-602-3179)
- 3. FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT WHERE FINISHED CEILINGS ARE NOT PRESENT. ALL FIRE ALARM WIRING ABOVE FINISHED CEILINGS SHALL BE TEFLON COATED (PLENUM
- 4. COORDINATE INSTALLATION OF FIRE ALARM EQUIPMENT WITH BASE BUILDING FIRE ALARM VENDOR CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR THE SYSTEM, INCLUDING WIRING DIAGRAMS, CATALOG CUTS OF ALL

DEVICES, AND SYSTEM RISER DIAGRAM AND SEQUENCE OF

- 6. PROVIDE END-OF-LINE DEVICES AS REQUIRED.
- ALL CONDUITS SHALL BE GROUNDED BY MEANS CONFORMING WITH THE NATIONAL ELECTRCIAL CODE WITH A GROUND CONDUCTOR EQUAL IN SIZE TO THE LARGEST CONDUCTOR USED IN THE SYSTEM; BUT IN NO CASE SHALL THE GROUND CONDUCTOR BE SMALLER THEN #10 AWG. ALL CONDUITS SHALL BE RIGID STEEL CONDUIT. ALL CONDUITS AND JUNCTION BOXES SHALL BE PAINTED RED.
- 8. ALL FIRE ALARM SYSTEM WIRING SHALL BE TWISTED PAIR #14 AWG MINIMUM, SOLID COPPER, 200 DEG. C, 600V, INSULATED CONDUCTORS, BS & E OR APPROVED AND COLORED RED.
- RUN RIGID CONDUIT WHERE NOT CONCEALED IN CEILINGS AND WHERE REQUIRED BY ALL APPLICABLE CODES, ALL WIRING SHALL BE COLOR CODED AND IDENTIFIED AT THE FACP. ALL FIRE ALARM CABLES SHALL BE APPROVED FOR USE IN FIRE ALARM SYSTEMS IN
- THE CITY HARTFORD CT. 10. ELECTRICAL CONTRACTOR SHALL PERFORM ALL NECESSARY FIRE DEPARTMENT FILING. WORK SHALL NOT BE CONSIDERED COMPLETE UNLESS ALL NECESSARY FILING, TESTS, AND INSPECTIONS ARE
- COMPLETED AND APPROVED. 11. ELECTRICAL CONTRACTOR SHALL FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS AND SLABS.
- 12. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID ONE (1) DAY FOR WALK-THRUS AND ALL PRE-TESTING, PRIOR TO FIRE DEPARTMENT INSPECTION AND TESTING.
- 13. VISUAL ALARM FLASHING STROBE LIGHT SHALL BE MINIMUM 75 CANDELAS AND WILL BE MOUNTED @ 80" A.F.F. PER "A.D.A." REQUIREMENTS STROBE LIGHTS MUST BE ALTERNATELY WIRED ON A & B CIRCUITS AS REQUIRED BY CODE.
- 14. COORDINATE COLOR AND LOCATION OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ANY WORK AND INSTALLATION.
- 15. REFER TO FLOOR PLAN FOR EXACT QUANTITY OF DEVICES.
- 16. ALL DEVICES SHALL BE PROVIDED BY THIS CONTRACTOR.
- 17. PRIOR TO SUBMITTING HIS BID, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO AVAILABILITY OF CIRCUITS/ZONES ETC., AND INFORM THE ENGINEER/ARCHITECT OF ANY DISCREPANCY AND INCLUDE IN HIS BID TO INCLUDE THE SAME AS DIRECTED. CLIENT IS NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED.
- 18. PROVIDE A FIRE ALARM CONTROL RELAY FOR CONTROL OF DAMPER MOTOR POWER FOR ALL FIRE SMOKE DAMPERS. ROUTE POWER VIA FIRE ALARM RELAY.
- 19. ALL FIRE ALARM INSTALLATIONS SHALL BE COORDINATED WITH BUILDING ENGINEER PRIOR TO INSTALLATION.



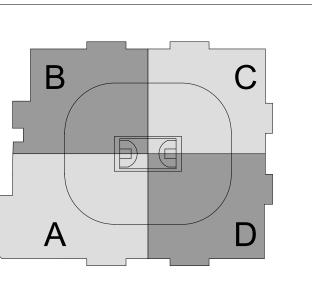
1. 'X' DENOTES CANDELLA RATING OF STROBE.

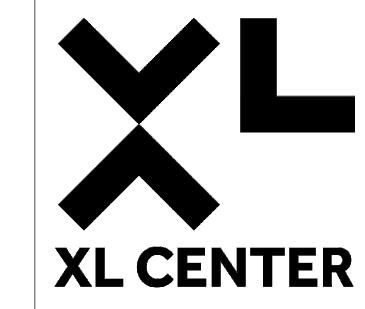
4. 'TYP' DENOTES TYPICAL FOR SIMILAR DEVICES OR

2. 'E' DENOTES EXISTING DEVICE.

INSTALLATIONS.

3. 'R' DENOTES RELOCATED DEVICE.





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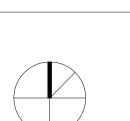
NOT FOR

DATE DESCRIPTION REVISIONS/ ISSUES CONTRACTOR SHALL CHECK AND VERIFY ALL

DISCREPANCIES TO THE ARCHITECT BEFORE

PROCEEDING WITH THE WORK DO NOT SCALE THE DRAWINGS

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FIRE ALARM ONE-LINES I -