

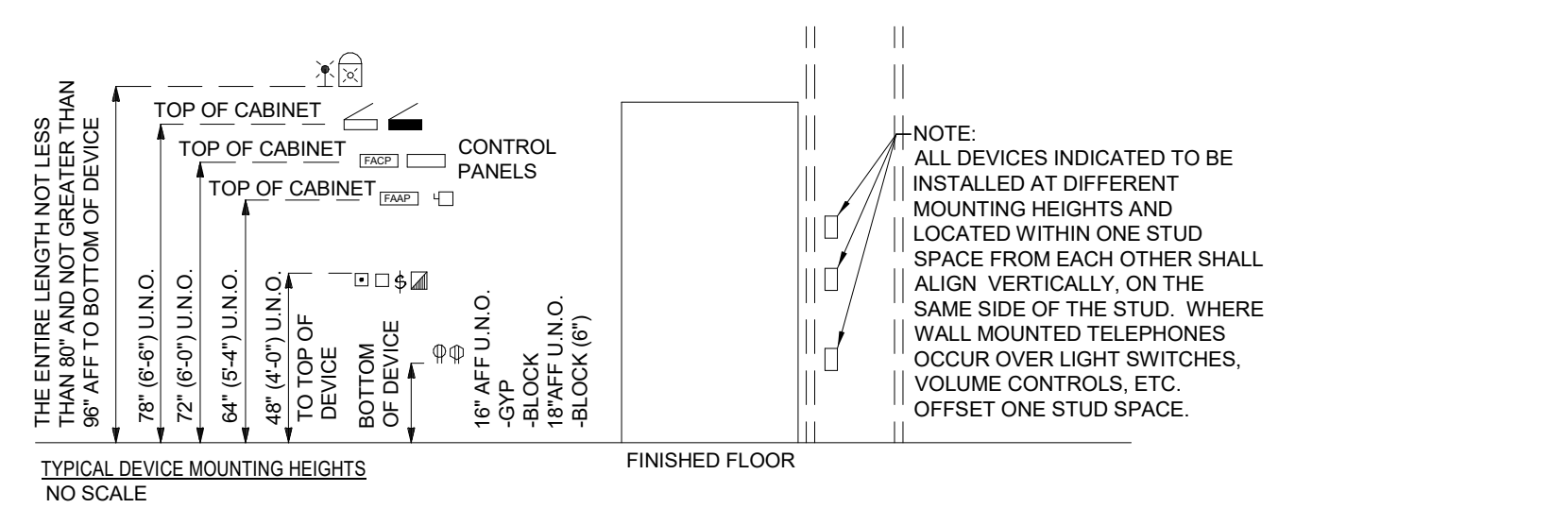
SC | ARCHITECTS

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NOT FOR
CONSTRUCTION

- NOTES:
1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS...
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 BUILDING...
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 CATEGORIES, RACEWAYS, TRIPING, 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".
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. THE "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 CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS SUPPLIERS, SUBCONTRACTORS AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.
8. FIRESTOPPING REQUIREMENT: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES 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 SERVED BY DISCONNECT.
10. CONTRACTOR PROVIDE ALL MISCELLANEOUS SUPPORTS AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNISTRUT, ALL THREADED, AIRCRAFT CABLE, ETC.



- NOTES:
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 6" ABOVE COUNTER OR MAXIMUM HEIGHT OF 44" TO TOP OF CEILING. VERIFY HEIGHTS WITH ARCHITECT.
5. FOR CEILING BELOW 7'-4", FIRE ALARM STROBE OR HORN/STROBE SHALL BE WALL MOUNTED IF BELOW FINISHED CEILING.
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 ARCHITECTURAL DOCUMENTS.
8. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS DIMENSIONS WHERE AVAILABLE. WHERE DEVICES ARE MOUNTED IN CASWORK OR MILLWORK, CONTRACTOR SHALL VERIFY EXACT DIMENSIONS PRIOR TO INSTALLATION.

Table with columns: TAG, OUTLET RATING, RECEPTACLE MODIFIER TAGS, FEEDER (NOTE 1), WIRING NOTES. Rows include various outlet types like NON-LOCKING, LOCKING, and their corresponding wiring configurations.

ABBREVIATIONS table listing electrical symbols and their corresponding terms, such as AMP, AC, AF, AFF, AFG, AL, AM, AN, ANT, ATS, AUTO, AUX, AWG, BFC, BFG, BKR, C, CAB, CAM, CB, CCTV, CMT, CO, COMB, CONDUIT, CU, CUP, DB, DGP, DISC, DND, DNR, EA, EAC, ECF, EGC, EHG, ELEC, ELEV, EM, EMT, EOL, EQP, EWC, EWH, EXH, F, FA, FACP, FBO, FC, FDR, FLEX, FLUR, FO, G, GALV, GEN, GFI, GFCI, GND, HOA, HP, HPF, HPS, HT, HTR, ID, ITP, J, JBC, K, KVA, KW, KWH, LA, LFC, LGT, LV, MA.

ABBREVIATIONS table listing electrical symbols and their corresponding terms, such as MAX, MB, MC, MCB, MCC, MCP, MECH, MFR, MG, MH, MR, MW, MWO, MOV, MS, MSB, MTD, MTO, MS, MV, NEC, NEC, NC, NL, NO, NTS, OC, OAD, PA, PAB, PBD, PE, PH, PNL, PNF, PR, PRT, PVR, QM, R, REC, RGS, RM, RPM, RSC, SEC, SEC, SH, SPT, SQU, ST, STD, SW, T, TCB, TEL, TEMP, TELECOM, TGB, TL, TMB, TR, UC, UG, UH, UL, UMF, UN, UPS, UTP, V, VFD, VM, W, WATT, WTH, WW, WJAN, WLN, WPT, X, Y, Z.

LIGHTING table listing lighting symbols and their corresponding terms, such as STRIP LIGHT, WALL MOUNTED LINEAR, RECESSED OR SURFACE MOUNTED 2X4, RECESSED OR SURFACE MOUNTED 2X2, WALL MOUNTED FLOODLIGHT, WALL MOUNTED SCOOGE, DOWNLIGHT, TRACK WITH TRACK HEADS, EXIT SIGN, MOUNTING, FACES AND DIRECTIONAL, ARROWS (SEE NOTES) PER PLANS, EMERGENCY LIGHTING UNIT, VACUANCY SENSOR - CEILING MOUNTED, VACUANCY SENSOR - WALL MOUNTED, OCCUPANCY SENSOR - CEILING MOUNTED, OCCUPANCY SENSOR - COMBINATION WALL SWITCH, VACUANCY SENSOR - COMBINATION WALL SWITCH, MASTER SWITCH, LIGHT SWITCH, LIGHT SWITCH REFER TO CONTROL DETAILS AND SCHEDULES FOR TYPE, CEILING MOUNTED DAYLIGHT SENSOR, SWITCH WITH PILOT LIGHT, DOOR JAMB SWITCH, UL924 EMERGENCY AUTOMATIC TRANSFER DEVICE, LIGHTING CONTROL KEYPAD, DIMMER SWITCH.

COMMUNICATIONS table listing communication symbols and their corresponding terms, such as WALL MTD MODULAR TELEPHONE OUTLET, WALL MTD TELEPHONE OUTLET, 2 PORT DATA WALL OUTLET, 3 PORT TEL/DATA WALL OUTLET, 4 PORT TEL/DATA WALL OUTLET, WALL MTD HDMI OUTLET, WALL MTD COAX OUTLET, WIRELESS LOCAL AREA NETWORK CEILING OUTLET MTD OR AS NOTED ON PLAN DRAWINGS, COMMUNICATIONS FURNITURE FEED MTD ON WALL AT 18" AFF, COMMUNICATIONS FURNITURE FEED FLOOR BOX, FLOOR MTD DATA OUTLET, SPEAKER, COMBINATION TV/RECEPTACLE OUTLET, TELECOMMUNICATIONS GROUND BUS, TELECOMMUNICATIONS MAIN GROUND BUS, TELECOMMUNICATIONS ROOM, UNDER COUNTER, UNDER GROUND, UNIT HEATER, UNDERWRITER LABORATORIES, UNFUSED, UNLESS NOTED OTHERWISE, UNINTERRUPTIBLE POWER SUPPLY, UNSHELDLED TWISTED PAIR, VOLT, VARIABLE FREQUENCY DRIVE, VOLTMETER, WATT, WITH, WATT HOUR, WIRELESS LOCAL AREA NETWORK, WEATHERPROOF (MUSE TYPE REQUIRED), WEATHERPROOF LOCKABLE ENCLOSURE, WPT, WATER TIGHT, TRANSFORMER, EXPLOSION PROOF.

EQUIPMENT table listing equipment symbols and their corresponding terms, such as MOTOR, MOTOR STARTER, UN-FUSED DISCONNECT, FUSED DISCONNECT, CIRCUIT BREAKER, BRANCH CIRCUIT OR POWER PANEL, LIGHTING CONTROL PANEL, METER, CURRENT TRANSFORMER, GROUND, DELTA/TWEE WITH GROUND, POWER TRANSFORMER, FUSE & SWITCH, CIRCUIT BREAKER, DRAWOUT CIRCUIT BREAKER, INVERSE TIME/OVERCURRENT RELAY (SOLID STATE WITH COMMUNICATION), DRAWOUT 15 KV BREAKER, KIRK-KEY INTERLOCK, GROUND FAULT INTERRUPTER BREAKER, CIRCUIT MONITORING DEVICE, MECHANICAL EQUIPMENT IDENTIFICATION TAG, SURGE PROTECTIVE DEVICE, THERMAL OVERLOAD, MOTOR AND THERMAL OVERLOAD, AUTOMATIC TRANSFER SWITCH.

RACEWAY LEGEND table listing raceway symbols and their corresponding terms, such as BRANCH CIRCUIT HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERICAL INDICATES CIRCUIT NUMBER, BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM, FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER, IN CIRCUIT #E IS IN ZONE, UNDERGROUND FEEDER, UNDERGROUND BRANCH CIRCUIT HOMERUN, CONDUIT UP, CONDUIT DOWN, CONDUIT RUNS UNDERFLOOR OR BELOW GRADE, CONDUIT RUN CONCEALED IN WALLS OR CEILING, OR EXPOSED WHEN CEILING ARE NOT PRESENT, MOTOR CONNECTION.

POWER DEVICES table listing power device symbols and their corresponding terms, such as SINGLE WALL RECEPTACLE, WALL DUPLEX RECEPTACLE, WALL DUPLEX RECEPTACLE (EMERGENCY), WALL DUPLEX RECEPTACLE WITH (2) USB PORTS, WALL FOURPLEX RECEPTACLE, WALL FOURPLEX RECEPTACLE (EMERGENCY), WALL SPECIAL RECEPTACLE (FOR "X" SEE TABLE BELOW), WALL COMBINATION TV/POWER OUTLET, WALL CLOCK RECEPTACLE, WALL JUNCTION BOX, WALL FURNITURE FEED, FLOOR DUPLEX RECEPTACLE, FLOOR FOURPLEX RECEPTACLE (POWERED/FAN/COMBO DEVICE, REFER TO TECHNOLOGY DRAWINGS), FLOOR JUNCTION BOX, FLOOR FURNITURE FEED, CEILING RECEPTACLE, CEILING DUPLEX RECEPTACLE, CEILING FOURPLEX RECEPTACLE, CEILING/FLOOR SPECIAL RECEPTACLE (FOR "X" SEE TABLE BELOW), CEILING JUNCTION BOX, CEILING TV OUTLET, POWER POLE, SINGLE TOGGLE SWITCH, PULSOMOLD, SINGLE PUSH BUTTON, DUPLEX PUSH BUTTON, WALL BUZZER, EMERGENCY POWER OFF.

FIRE ALARM table listing fire alarm symbols and their corresponding terms, such as SMOKE DETECTOR, SMOKE DETECTOR WITH ELEVATOR REGALL, HEAT DETECTOR, DUCT DETECTOR, WALL MOUNTED HORN OR SPEAKER, CEILING MTD HORN OR SPEAKER, WALL MTD HORN (OR SPEAKER) / STROBE, CEILING MTD HORN (OR SPEAKER) / STROBE, FIRE SERVICE PHONE / WARDEN PHONE, FIREMAN'S PHONE JACK, MANUAL PULL STATION WITH VANDAL COVER, MAGNETIC DOOR HOLD OPEN DEVICE (ALARM REL), TAMPER SWITCH, FLOW SWITCH, WALL MTD REMOTE INDICATOR LIGHT, CEILING MTD REMOTE INDICATOR LIGHT, ELECTRIC STRIKE, WALL MOUNTED ADA STROBE, CEILING MOUNTED ADA STROBE, FIRE ALARM RELAY, FIRE SMOKE DAMPER WITH DUCT DETECTOR, FIRE SMOKE DAMPER WITH SMOKE DETECTOR, CARBON MONOXIDE DETECTOR, FIRE ALARM ANNUNCIATOR PANEL, FIRE ALARM CONTROL PANEL, DATA GATHERING PANEL, EMERGENCY POWER OFF.

MECHANICAL/PLUMBING COORDINATION REQUIREMENTS
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 EQUIPMENT.

GENERAL NOTES:
1. TECHNOLOGY DEVICES SHOWN FOR REFERENCE ONLY. PROVIDE BACKBOXES AND CONDUIT WITH DRAG WIRE STUBBED UP TO 6" ABOVE FINISHED CEILING, UNO.
2. DEVICES SHOWN FOR REFERENCE ONLY. PROVIDE BACKBOXES AND CONDUIT AS REQUIRED.

ELECTRICAL DRAWING LIST - PHASE 2

Table with columns: Sheet Number, Sheet Name. Lists sheets E-000.PH2 through E-600.PH2 and their corresponding titles like ELECTRICAL LEGEND, SCHEDULES I - PHASE 2, LEVEL 31 - ELECTRICAL DEMOLITION - PHASE 2, etc.

FIRE ALARM DRAWING LIST - PHASE 2

Table with columns: Sheet Number, Sheet Name. Lists sheets FA-202.PH2 through FA-600.PH2 and their corresponding titles like LEVEL 48 - FIRE ALARM CONSTRUCTION - PHASE 2, LEVEL 31 - FIRE ALARM CONSTRUCTION - PHASE 2, FIRE ALARM ONE-LINES I - PHASE 2.

Table with columns: TAG, DESCRIPTION, DATE. Includes a header row and several empty rows for revision tracking.

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.

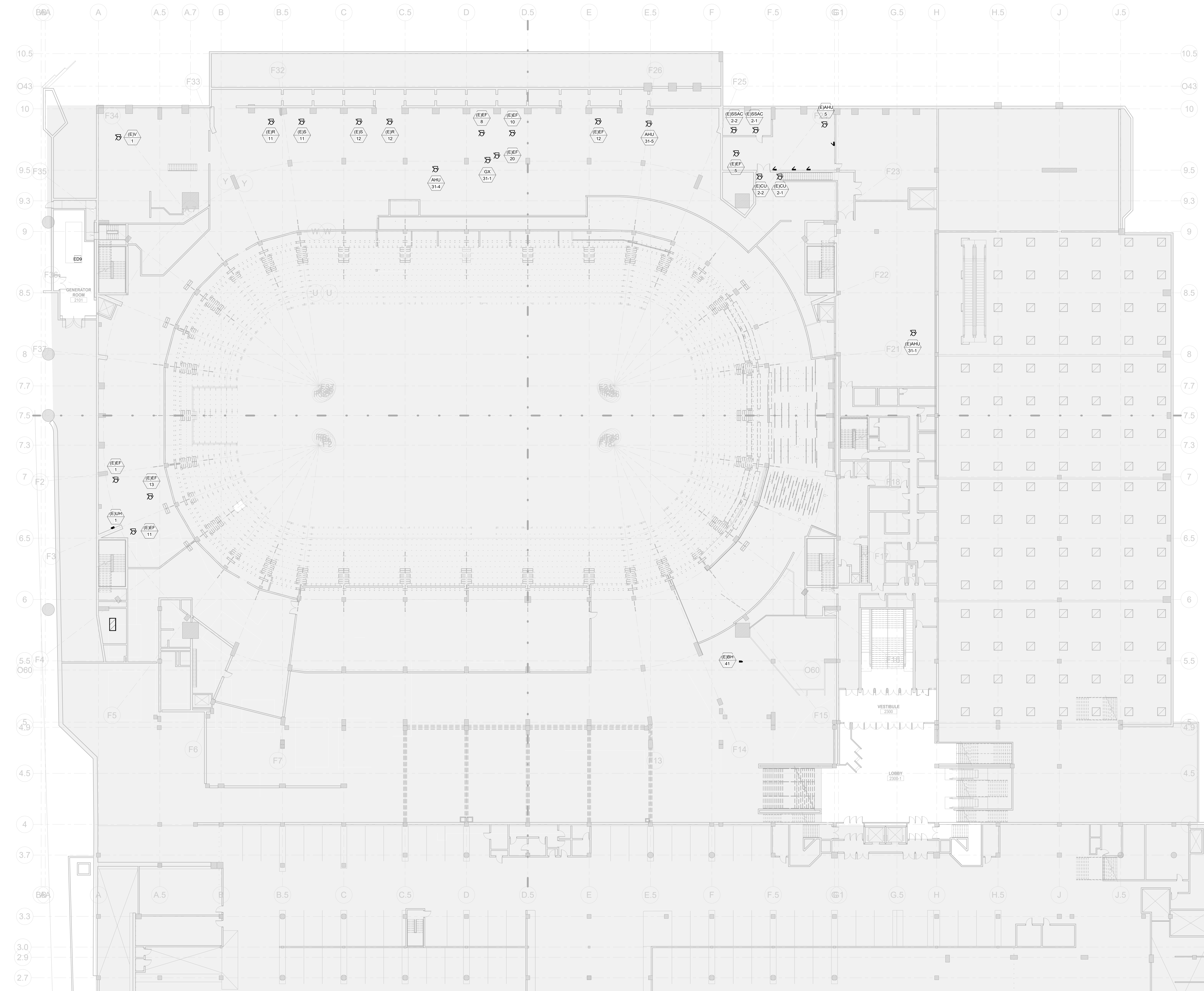
Table with columns: DRAWN, DATE, CHECKED, DATE PLOTTED. Shows MEE, 09/25/20, MEE, 12/12/2020 1:30:05 AM.

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HARTFORD, CT

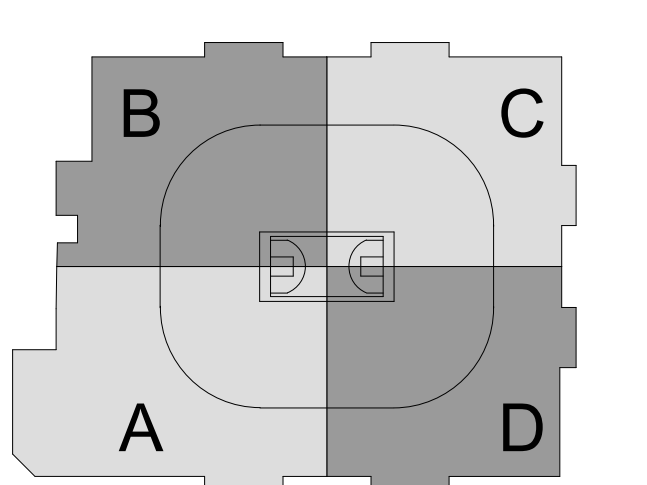
DWG. TITLE
ELECTRICAL LEGEND,
DETAILS & NOTES - PHASE 2

SCALE: 1/8" = 1'-0"
PROJ. NO: 1605
DWG. NO: E-000.PH2



1 ELECTRICAL DEMO PLAN - LEVEL 48 - PHASE 2
1/16" = 1'-0"

- GENERAL NOTES:**
1. PRIOR TO BID, CONTRACTOR SHALL VERIFY ALL WORK ASSOCIATED WITH EXISTING CONDITIONS TO DETERMINE NECESSARY WORK. ANY DISCREPANCIES OBSERVED ON SITE SHALL BE BROUGHT UP TO ARCHITECT'S AND ENGINEER'S ATTENTION PRIOR TO BID.
 2. ALL DEVICES, FIXTURES, AND EQUIPMENT INDICATED WITH 'E' OR 'EXISTING' SHALL REMAIN. MAINTAIN CONTINUITY OF CIRCUITRY. PROVIDE ADEQUATE PROTECTION DURING DEMOLITION AND CONSTRUCTION.
 3. ALL DEVICES, FIXTURES, AND EQUIPMENT INDICATED WITH 'R' OR 'RELOCATE' ARE EXISTING TO BE RELOCATED.
 4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION INFORMATION INCLUDING AREAS TO BE DEMOLISHED.
 5. REFER TO MECHANICAL, PLUMBING, AND SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL EQUIPMENT TO BE REMOVED.
 6. ALL EXISTING SMOKE DETECTORS SHALL REMAIN OPERATIONAL DURING DEMOLITION AND CONSTRUCTION. REMOVE SMOKE DETECTORS FROM CEILING AND PROVIDE TEMPORARY SUPPORTS AND ADEQUATE PROTECTION DURING DEMOLITION AND CONSTRUCTION. DISCONNECT AND REMOVE DETECTORS ONCE NEW DETECTORS ARE READY FOR INSTALLATION.
 7. ALL WORK AFFECTING BUILDING SYSTEM OPERATION SHALL BE COORDINATED WITH BUILDING ENGINEERING.
 8. PROVIDE REMOVAL AND REINSTALLATION OF EXISTING CEILING FOR THE REQUIRED WORK. REPLACE ALL DAMAGED TILES AND PROVIDE PATCHING AND PAINTING AS REQUIRED.
 9. ANY WORK OUTSIDE OF PRIMARY AREAS OF WORK SHALL BE COMPLETED DURING PREMIUM TIME.
 10. PROJECT SHALL BE COMPLETED IN PHASES PER ARCHITECTURAL PHASING PLAN. COORDINATE ALL DEMOLITION WITH THE PHASING PLANS AND PROVIDE TEMPORARY LIGHTING, SWITCHING, EXIT SIGNS, CIRCUITRY, ETC. AS REQUIRED.
 11. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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KEYNOTES	REVISIONS/ ISSUES
<p>DISCONNECT AND REMOVE THE FOLLOWING IN AREA OF WORK INCLUDING CONDUIT AND WIRING BACK TO POINT OF ORIGIN UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE REMOVED ON EXISTING TO REMAIN WALLS INDICATED IN DEMOLITION SCOPE. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN CONTINUITY OF ALL EXISTING BRANCH CIRCUITS TO REMAIN AFFECTED BY REMOVALS:</p> <p>1. RECEPTACLES, JUNCTION BOXES, LOW VOLTAGE AND POWER DEVICES, UNLESS OTHERWISE NOTED. 2. LIGHT FIXTURES AND ASSOCIATED SWITCHING AND/OR CONTROLS, PRIOR TO REMOVALS CONTRACTOR SHALL TRACE OUT NORMAL AND EMERGENCY LIGHTING BRANCH CIRCUIT AND LABEL FOR REUSE. PROTECT AND MAINTAIN EXISTING EMERGENCY CIRCUITS SERVING AREA NOT IS SCOPE OF WORK. 3. EXIT SIGNS. PROTECT AND MAINTAIN (1) EXISTING EMERGENCY CIRCUIT SERVING FLOOR FOR REUSE DURING CONSTRUCTION. 4. FIRE ALARM DEVICES 5. DUCT DETECTORS AND REMOTE LEDS FOR UNITS AND DUCTWORK BEING DEMOLISHED.</p>	<p>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.</p>

NO.	DESCRIPTION	DATE
1	ISSUED FOR TIA 50	10/1/20

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DATE	09/25/20
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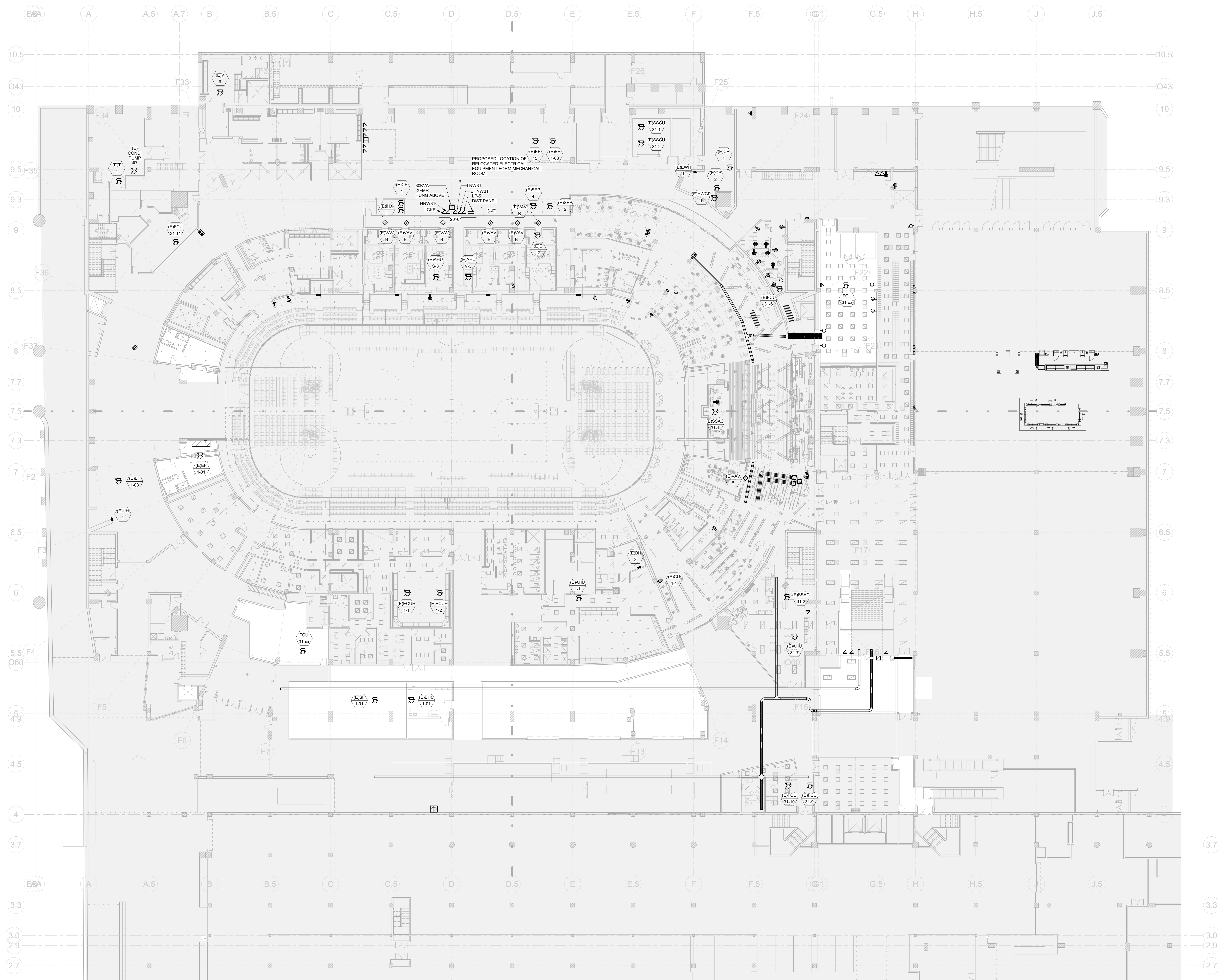
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DWG. TITLE
LEVEL 48 - ELECTRICAL DEMOLITION - PHASE 2

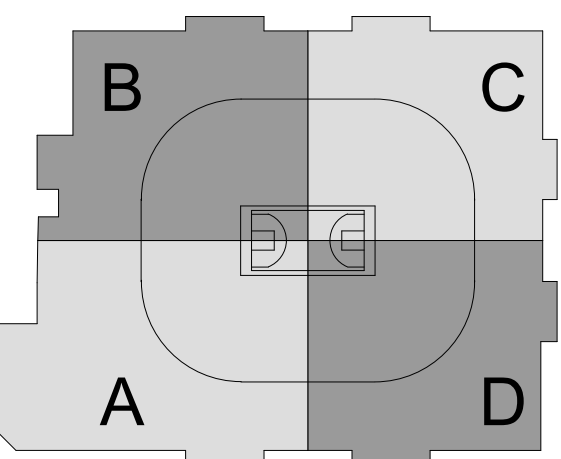
SCALE
1/16" = 1'-0"

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E-102.PH2

PROJ. NO.
1605

**GENERAL NOTES:**

1. CONST PHASE 2



CAPITAL REGION DEVELOPMENT AUTHORITY

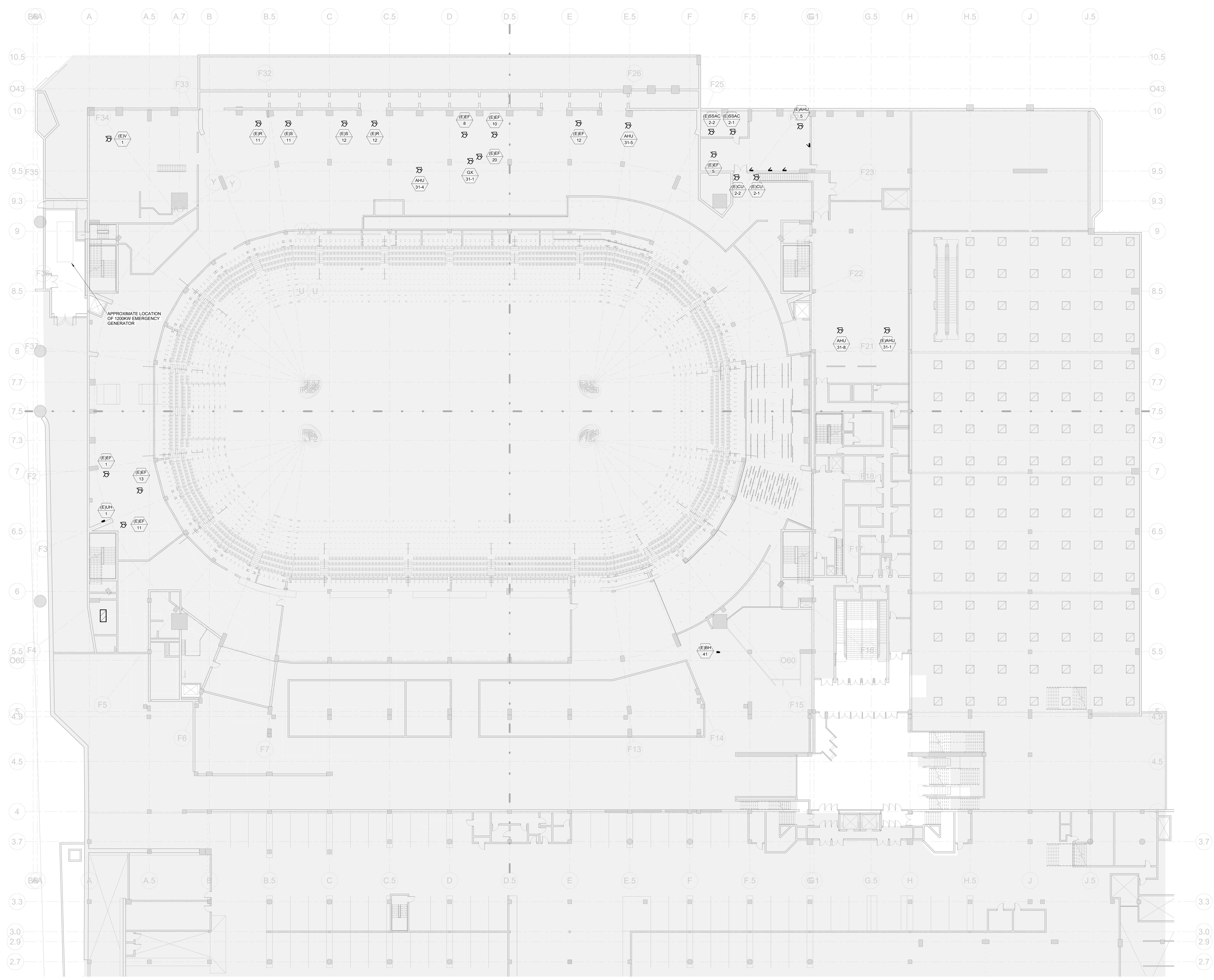
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(646) 659-741029 W 38th STREET, 5th FLOOR
NEW YORK, NY 10018
(212) 447-6770**NOT FOR
CONSTRUCTION****KEYNOTES****REVISIONS/ ISSUES**
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.

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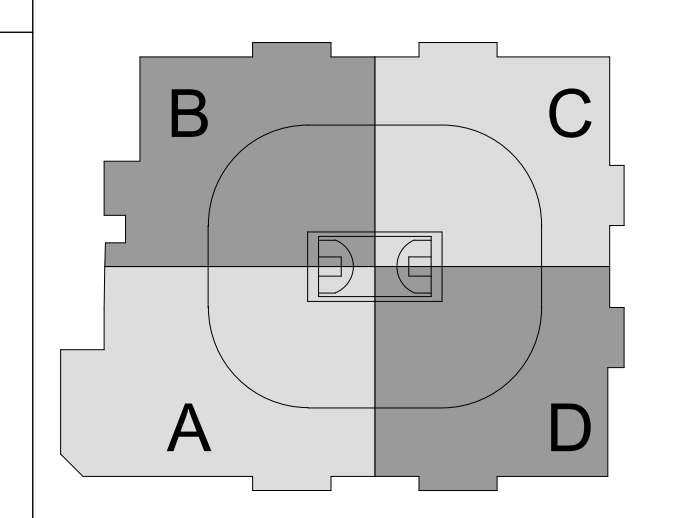
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HARTFORD, CTDWG TITLE
**LEVEL 31 - ELECTRICAL
CONSTRUCTION - PHASE 2**

SCALE	DWG NO.
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PROJ NO.	1605



GENERAL NOTES:

1. CONST PHASE 2



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NO.	DESCRIPTION	DATE

KEYNOTES

APPROXIMATE LOCATION OF 1200KW EMERGENCY GENERATOR

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

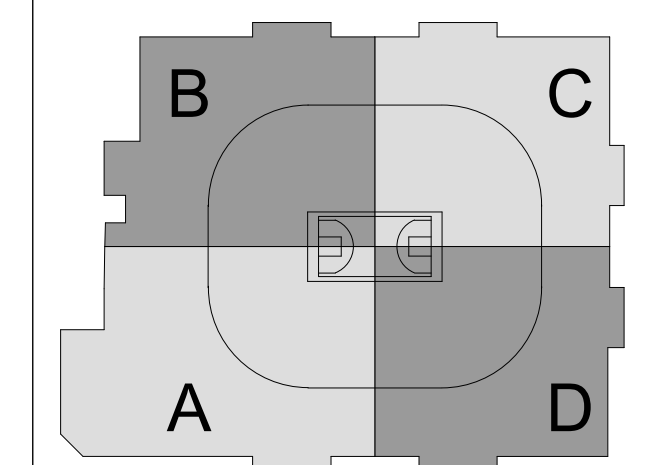
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 HARTFORD, CT

DWG. TITLE
 LEVEL 48 - ELECTRICAL
 CONSTRUCTION - PHASE 2

SCALE
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 DWG. NO.
 E-202.PH2
 PROJ. NO.
 1605



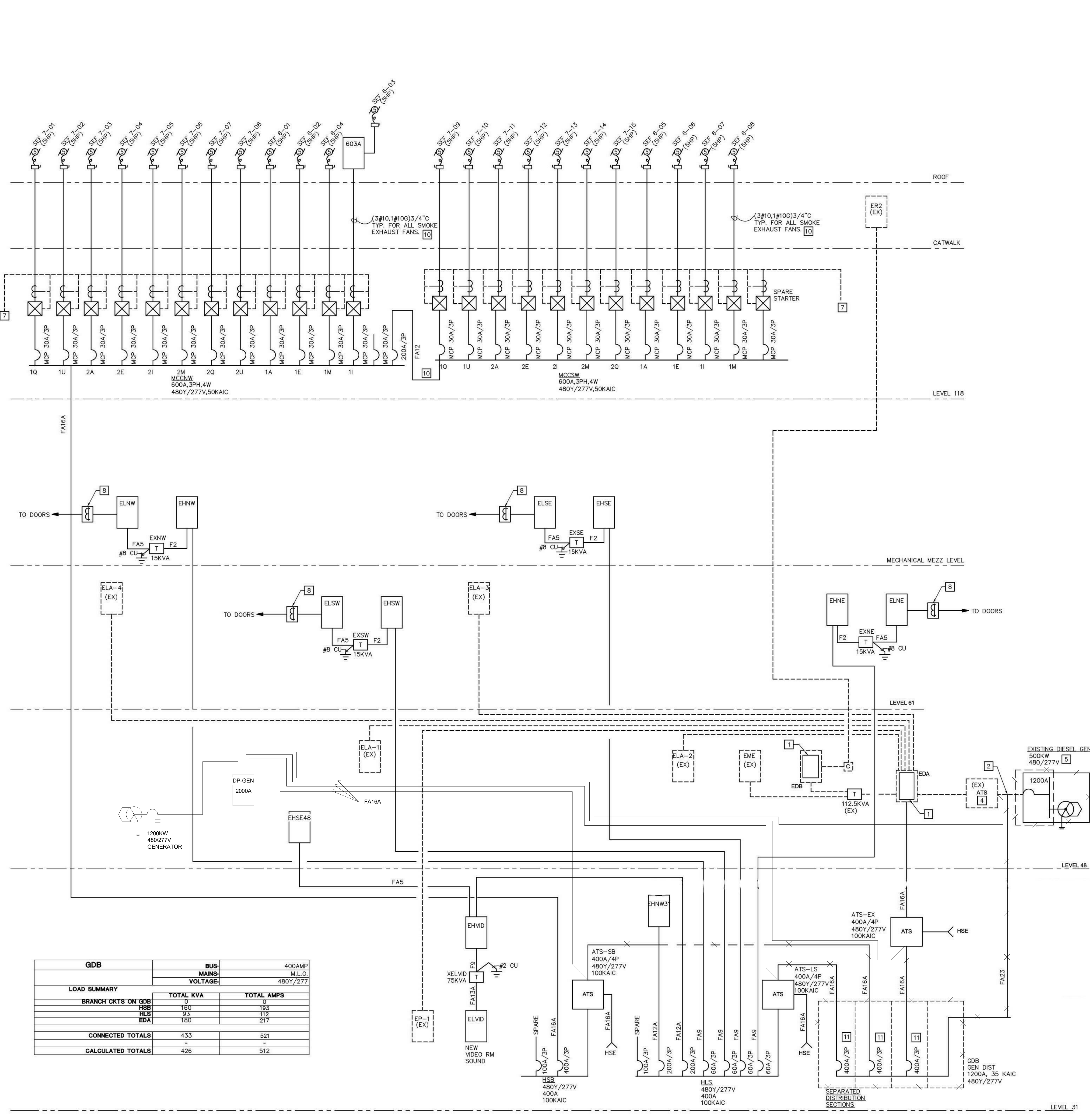
CAPITAL REGION DEVELOPMENT AUTHORITY

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FEEDER TABLE - CONDUCTORS

Br./CCPD	TAG	Sets	COPPER		COPPER	
			FDR/PIPE [3W]	FA1	FDR/PIPE [4 W]	FA1
20	F1	1	3/4"	3#12 #12G	1 3/4"	4#12 #12G
30	F2	1	3/4"	3#10 #10G	1 3/4"	4#10 #10G
40	F3	1	3/4"	3#8 #10G	1 3/4"	4#8 #10G
50	F4	1	1"	3#6 #10G	1 1/2"	4#6 #10G
60	F5	1	1-1/4"	3#4 #8G	1 1/4"	4#4 #8G
70	F6	1	1-1/4"	3#4 #8G	1 1/4"	4#4 #8G
80	F6	1	1-1/4"	3#4 #8G	1 1/4"	4#4 #8G
90	F7	1	1-1/4"	3#4 #8G	1 1/2"	4#4 #8G
100	F8	1	1-1/2"	3#4 #8G	1 2"	4#4 #8G
110	F8A	1	1-1/2"	3#4 #8G	2"	4#4 #8G
125	F9	1	1-1/2"	3#4 #8G	1 2"	4#4 #8G
150	F9	1	1-1/2"	3#4 #8G	1 2"	4#4 #8G
175	F10	1	2"	3#2 #8G	1 2"	4#2 #8G
200	F11	1	2"	3#2 #8G	1 2-1/2"	4#2 #8G
225	F12	1	2-1/2"	3#4 #8G	1 2-1/2"	4#4 #8G
250	F13	1	2-1/2"	3#250 #4G	1 3"	4#250 #4G
250	F14	1	3"	3#350 #4G	1 3"	4#350 #4G
300	F15	1	3"	3#500 #3G	1 3-1/2"	4#500 #3G
400	F16	2	2"	3#3 #3G	2 2-1/2"	4#3 #3G
400	F17	2	2-1/2"	3#4 #2G	2 2-1/2"	4#4 #2G
450	F17	2	2-1/2"	3#4 #2G	2 2-1/2"	4#4 #2G
500	F18	2	2-1/2"	3#250 #2G	2 3"	4#250 #2G
500	F19	2	3"	3#350 #1G	2 3"	4#350 #1G
700	F20	2	3"	3#500 #1/2G	2 3-1/2"	4#500 #1/2G
750	F20	2	3"	3#500 #1/2G	3"	4#500 #1/2G
800	F21	3	3"	3#300 #1/2G	3 3"	4#300 #1/2G
800	F22	3	3"	3#400 #2/2G	3 3"	4#400 #2/2G
1000	F22	3	3"	3#400 #2/2G	3 3-1/2"	4#400 #2/2G
1000	F23	3	3"	3#350 #3/2G	3 3-1/2"	4#350 #3/2G
1200	F23	3	3"	3#600 #3/2G	3 3-1/2"	4#600 #3/2G
1600	F24	5	3"	3#400 #4/2G	5 3-1/2"	4#400 #4/2G
1600	F24C	4	3-1/2"	3#600 #4/2G	5 3-1/2"	4#600 #4/2G
2000	F25	6	3"	3#400 #250G	6 3-1/2"	4#400 #250G
2000	F25C	5	3"	3#600 #250G	6 3-1/2"	4#600 #250G
2500	F26	7	3-1/2"	3#500 #350G	7 3-1/2"	4#500 #350G
2500	F26A	7	4"	3#500 #500G	7 4"	4#500 #500G
2500	F26B	6	4"	3#600 #350G	7 4"	4#600 #350G
3000	F27	8	3-1/2"	3#500 #400G	8 4"	4#500 #400G
3500	F28	10	3-1/2"	3#500 #500G	10 4"	4#500 #500G
3500	F28C	9	4"	3#600 #500G	10 4"	4#600 #500G
4000	F29	11	4"	3#500 #500G	11 4"	4#500 #500G
4000	F29C	10	4"	3#600 #500G	10 4"	4#600 #500G

ALL CONDUCTORS ARE WITH THHN/THWN WIRE WITH 60 DEG TERMINATIONS UP TO #1AWG AND 75 DEG FOR LARGER SIZES.

A	B	MCCNW		MCCSW	
		SECTION 1	SECTION 2	SECTION 1	SECTION 2
A	A	1A	2A	1A	2A
B	B				
C	C				
D	D				
E	E				
F	F	1E	2E	1E	2E
G	G				
H	H				
I	I				
J	J	1I	2I	1I	2I
K	K				
L	L				
M	M	1M	2M	1M	2M
N	N				
O	O				
P	P				
Q	Q	1Q	2Q	1Q	2Q
R	R				
S	S				
T	T				
U	U	1U	2U	1U	2U
V	V				
W	W				
X	X				

GDB		BUS		400AMP
LOAD SUMMARY		TOTAL KVA	TOTAL AMPS	M.L.O.
BRANCH CKTS ON GDB				
HBB	180	193		
HLS	93	112		
EDA	180	217		
CONNECTED TOTALS	453	521		
CALCULATED TOTALS	426	512		

GENERAL NOTES:

- ALL FEEDERS SHALL BE COPPER 75 DEGREE RATED INSULATION.
- FEEDER LENGTHS ARE INDICATED FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT BASE ACTUAL FEEDER LENGTHS ON QUANTITIES INDICATED ON THIS DRAWING.
- ALL CONDUIT RUNS SHALL BE RAN PERPENDICULAR AND PARALLEL TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT RUNS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
- FOR CALCULATION PURPOSES THE FOLLOWING TRANSFORMER IMPEDANCES WERE USED: 15 KVA-4.5%Z, 75 KVA-5.4%Z, 112.5 KVA-4.9%Z, 150 KVA-5.3%Z, 225 KVA-4.9%Z, 300 KVA-5.3%Z, 500 KVA-5.8%Z.
- PROVIDE FULL BUSSING FOR ALL SPACINGS INDICATED ON PANEL BOARDS AND DISTRIBUTION BOARDS.
- CONNECT ALL TRANSFORMER GROUNDING ELECTRODE TO GROUND BUS RISER.
- REFER TO FEEDER TABLE FOR FEEDER SIZE CORRESPONDING TO OVERCURRENT PROTECTION DEVICE (BREAKER OR FUSE) SHOWN ON ONE-LINE.
- ALL EQUIPMENT TO BE FULLY RATED FOR THE AVAILABLE FAULT.
- ALL STEP DOWN TRANSFORMERS SHOWN ARE 480-208V/120V UNLESS OTHERWISE NOTED.
- REFER TO FEEDER TABLE FOR

KEY NOTES: (SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

- REPLACE EXISTING EMERGENCY PANEL WITH SAME BREAKER LINE-UP AND RECONNECT EXISTING CIRCUITS.
- REMOVE EXISTING FEEDERS FROM GENERATOR AND PROVIDE NEW DOWN TO NEW ODB.
- ADD/ALT #3 NEW GENSET LOCATED ON SITE. REFER TO ENLARGED PLAN E-620.
- EXISTING ATS TO BE DEMOLISHED.
- ADD ALTERNATE #3 EXISTING GENERATOR TO BE TAKEN OUT OF SERVICE. REMOVE POWER AND CAP CONNECTION LOCATIONS FOR SAFETY. ABANDON IN PLACE. IF ALTERNATE NOT ACCEPTED, EXISTING GENERATOR TO REMAIN IN SERVICE.
- PROVIDE LOAD SIDE MONITORING CT'S ON ALL MOTOR FEEDER AND TIE TO SMOKE CONTROL PANEL TO INDICATE MOTOR OPERATION. SEE DETAIL E-501.
- ADD ALTERNATE #X. PROVIDE NEW TRANSFORMER, FEEDER AND PANEL OFF EHNW. IF ALTERNATE NOT ACCEPTED, TRANSFORMER, PANEL AND FEEDER ARE NOT REQUIRED.
- PROVIDE NEMA 1 ENCLOSURE WITH MONITORING CT'S FOR DOOR CIRCUITS. TIE TO SMOKE CONTROL TO INDICATE DOOR OPERATION.
- REFER TO DETAIL 'C' ON E-501 AND 'MCC SCHEDULE' ON E-007.
- CONDUIT AND FEEDERS FOR SEF FANS THAT ARE ROUTED EXPOSED IN SEATING BOWL SHALL BE PROTECTED
- PROVIDE INSULATED CASE BREAKERS WITH ELECTRONIC TRIP WITH LONG TIME, SHORT TIME AND INSTANTANEOUS FUNCTIONS IN SEPARATE BARRIERS SECTIONS. PROVIDE BREAKER COORDINATION DOWNSTREAM TO BRANCH DEVICE PER NEC 700.27 FOR HSB AND HLS DISTRIBUTION.
- PROYSEAL DUCTWRAP XL OR MI CABLE OR EQUAL.
- PROVIDE INSULATED CASE BREAKERS WITH ELECTRONIC TRIP WITH LONG TIME, SHORT TIME AND INSTANTANEOUS FUNCTIONS IN SEPARATE BARRIERS SECTIONS. PROVIDE BREAKER COORDINATION DOWNSTREAM TO BRANCH DEVICE PER NEC 700.27 FOR HSB AND HLS DISTRIBUTION.

NO.	DESCRIPTION	DATE

REVISIONS/ ISSUES

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

DATE	DESCRIPTION	DATE
09/25/20		

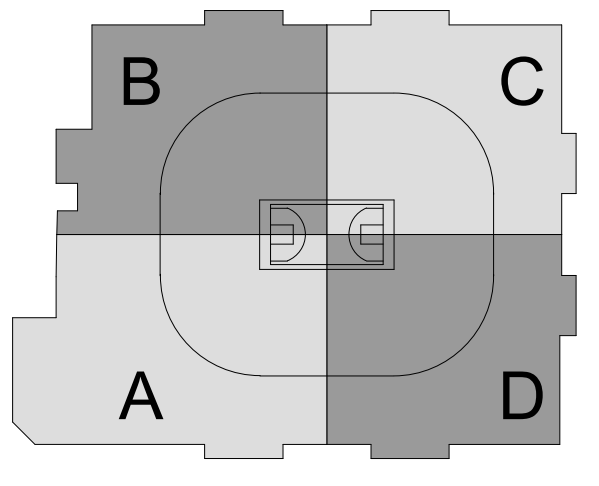
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DATE: 09/25/20
CHECKED: MEE
DATE PLOTTED: 12/12/2020 1:31:02 AM

XL CENTER

1 CIVIC CENTER PLAZA
HARTFORD, CT

PROJECT TITLE: ELECTRICAL ONE-LINES I - PHASE 2

SCALE: 1/8" = 1'-0"
DWG NO: E-600.PH2
PROJ NO: 1605



CAPITAL REGION DEVELOPMENT AUTHORITY

SC I ARCHITECTS

489 SEVENTH AVE., SUITE 900
NEW YORK, NY 10018
(646) 658-7410

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

NOT FOR
CONSTRUCTION

NO.	ISSUED FOR	DATE	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

SEAL

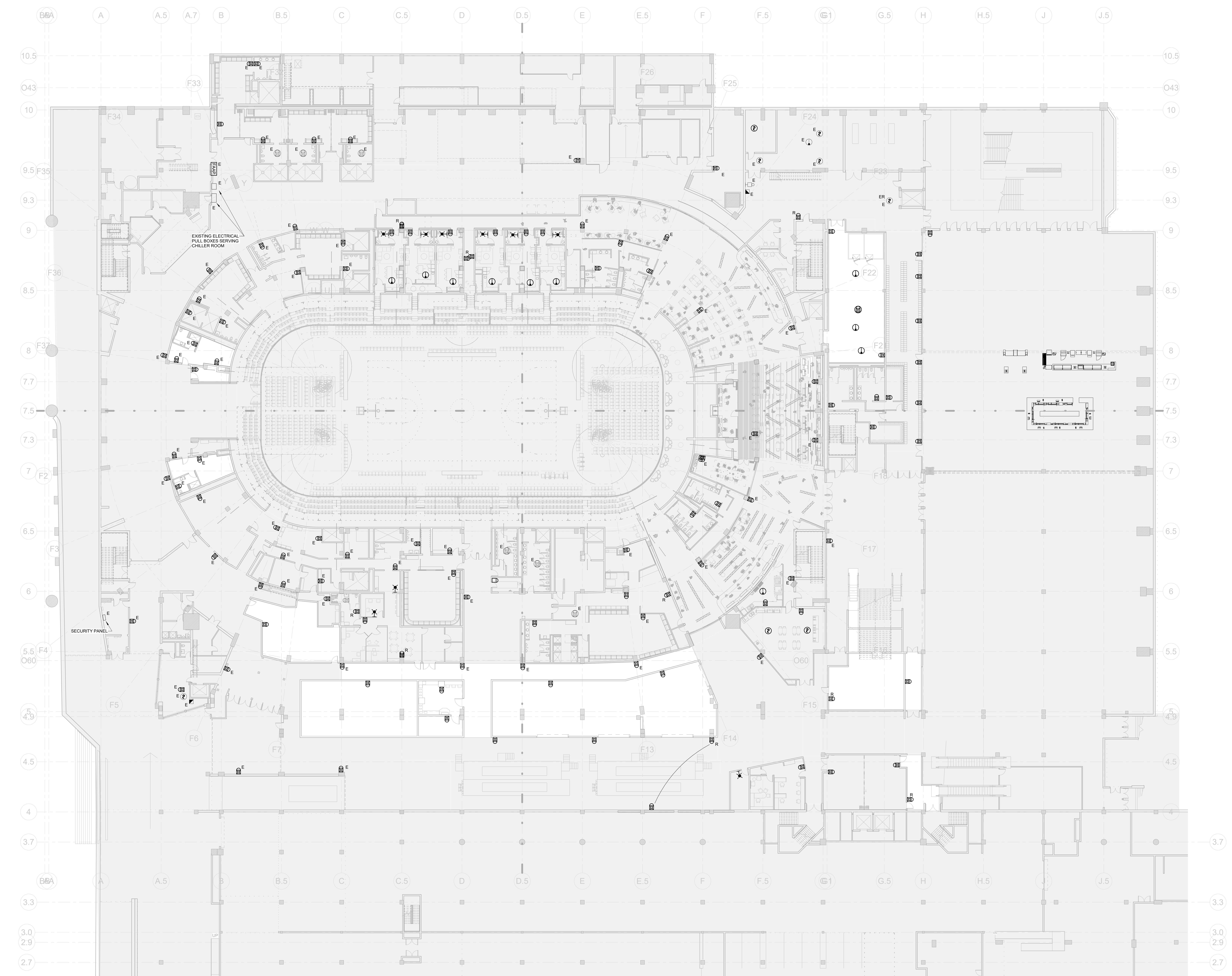
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DATE	12/11/20
CHECKED	Checker
DATE PLOTTED	12/12/2020 1:31:24 AM

XL CENTER

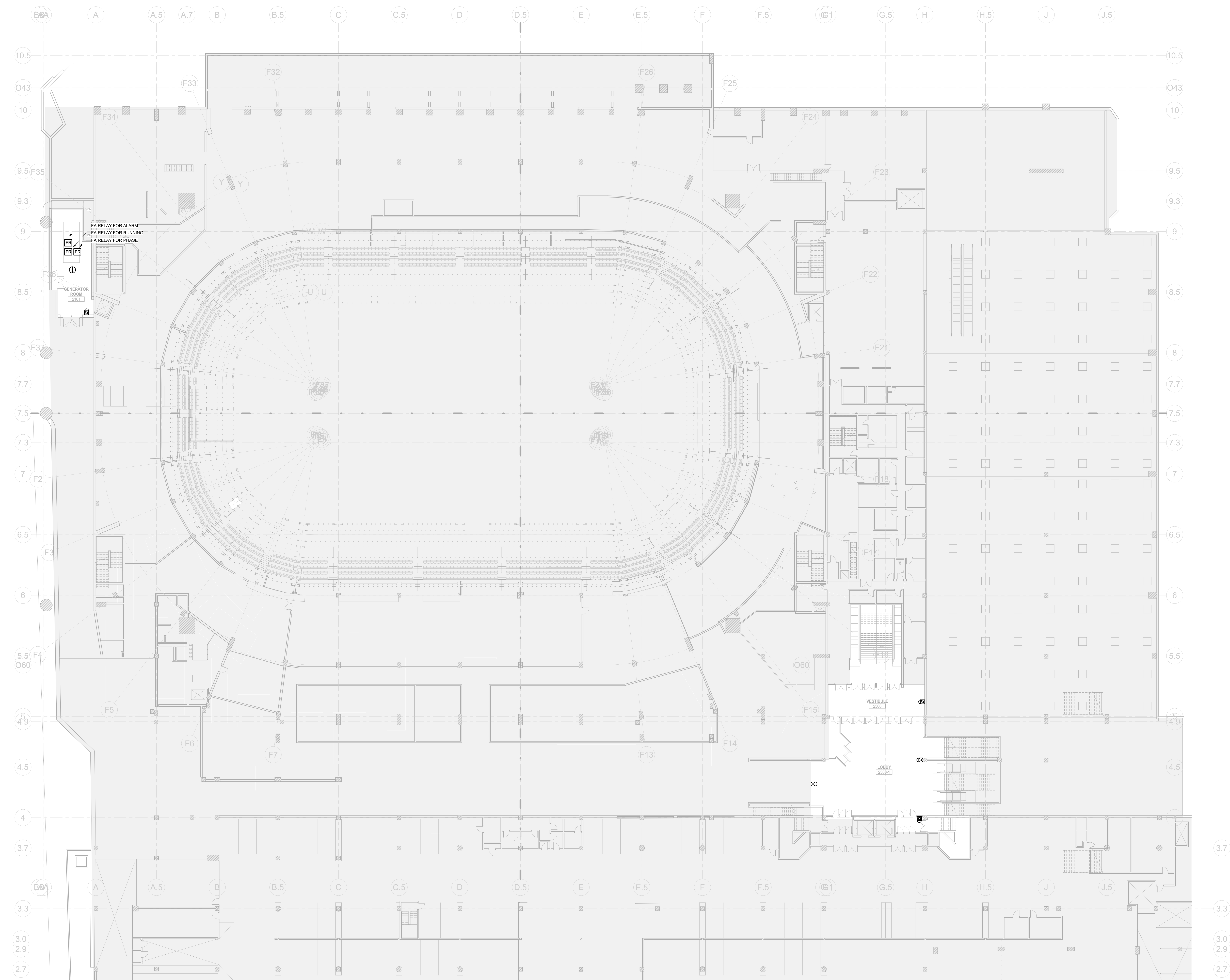
1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 31 - FIRE ALARM
CONSTRUCTION - PHASE 2

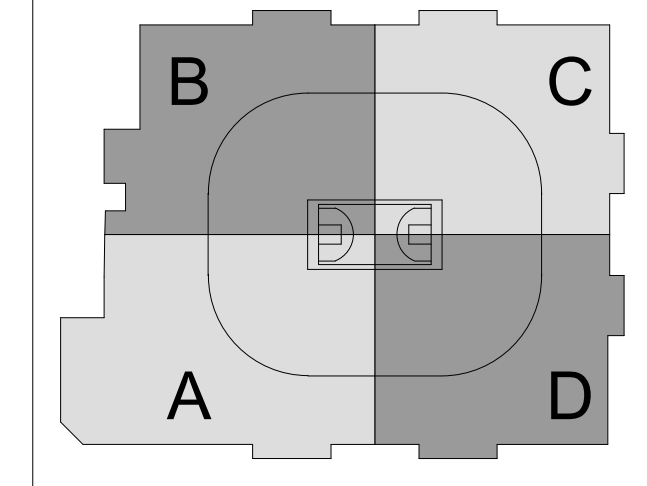
SCALE: 1/16" = 1'-0"
PROJ. NO: 1605
FA-201.PH2



1 PH21 - FIRE ALARM PLAN - LEVEL 31
1/16" = 1'-0"



PH21 - FIRE ALARM PLAN - LEVEL 48
1/16" = 1'-0"



CAPITAL REGION DEVELOPMENT AUTHORITY

S C I ARCHITECTS

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(646) 655-7410

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NEW YORK, NY 10018
(212) 447-6770

NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE

REVISIONS/ ISSUES

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SEAL

DRAWN	Author
DATE	12/11/20
CHECKED	Checker
DATE PLOTTED	12/12/2020 1:31:34 AM

XL CENTER

1 CIVIC CENTER PLAZA
HARTFORD, CT

DWG. TITLE
LEVEL 48 - FIRE ALARM CONSTRUCTION - PHASE 2

SCALE
1/16" = 1'-0"

DWG. NO.
1605

PROJ. NO.
FA-202.PH2

