



E

D

C

B

A

RACEWAYS AND WIRING

HOME RUN TO PANELBOARD, "1,4,3" INDICATES PANEL, "1,3" INDICATES CIRCUIT NUMBERS, (20A, 1P, UNLESS INDICATED OTHERWISE) NUMBER OF SLASH MARKS INDICATE NUMBERS OF #12AWG CONDUCTORS IN MINIMUM 3/4"X3" NO SLASH MARKS INDICATE 2#12 & 1#12G-34" UNLESS INDICATED OTHERWISE.

NOTES

1. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY, SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.

2. HOME RUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE) PLUS NEUTRAL AND GROUND CONDUCTORS IN EACH CONDUIT.

FEDER TAG-REFER TO LEGEND OF FEEDER SIZES

LIGHTING FIXTURES

FLUORESCENT LIGHTING FIXTURE CEILING OR RECESSED MOUNTED, "F1" INDICATES FIXTURE TYPE, "2" INDICATES CIRCUIT NUMBER, "N" INDICATES SWITCH CONTROL, "M" INDICATES WIRED TO LIFE SAFETY EMERGENCY SYSTEM AND "E" INDICATES WIRED TO CRITICAL EMERGENCY SYSTEM.

FLUORESCENT BARE LAMP STRIP OR INDUSTRIAL STRIP

FLUORESCENT UNDERCOUNTER TASK LIGHT

INCANDESCENT OR COMPACT FLUORESCENT RECESSED OR SURFACE MOUNTED LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

WALL WASH OR DIRECTIONAL LIGHTING FIXTURE

CEILING MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN

SURGICAL EXAM LIGHT

EMERGENCY BATTERY UNIT

REMOTE EMERGENCY LIGHT HEADS

ARROW INDICATES TYPICAL LIGHTING FIXTURES IN CONTINUOUS ROW, FURNISH AND INSTALL ALL CORNERS, ENDCAPS, EXTENSIONS AND FITTINGS AS REQUIRED FOR A COMPLETE INSTALLATION

POLE MOUNTED SITE LIGHTING FIXTURE

BOLLARD TYPE SITE LIGHTING FIXTURE

PIT ELEVATOR LIGHT, REFER TO LIGHTING SCHEDULE FOR DETAILS

TRACK LIGHTING

TOGGLE SWITCHES

(MOUNTED 48" AFF)

S₁ SINGLE POLE TOGGLE SWITCH, "N" INDICATES FIXTURE CONTROL

S₂ DOUBLE POLE, DOUBLE THROW CENTER OFF TOGGLE SWITCH, HUBBELL SERIES 1382

S₃ THREE WAY TOGGLE SWITCH

S₄ FOUR WAY TOGGLE SWITCH

S₅ KEY OPERATED SWITCH

S₆ SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT

S₇ SINGLE POLE MECHANICAL TIMER SWITCH

S_{20A} TIME CLOCK BYPASS SWITCH (MAX 4 HOURS OVERRIDE)

INCANDESCENT DIMMER SWITCH, "D1" INDICATES 1000 WATT DIMMER, "D2" INDICATES 200 WATT DIMMER

FAN SWITCH, FURNISHED BY HVAC SUBCONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL SUBCONTRACTOR

LOW VOLTAGE LIGHTING CONTROL RELAY

SURGICAL LIGHT INTENSITY CONTROLLER

LOW VOLTAGE LIGHTING CONTROL SWITCH

OCCUPANCY SENSOR LIGHTING CONTROL, "C" INDICATES CEILING MOUNTED

S_{20C} THREE POSITION MOMENTARY CONTACT SWITCH, CENTER OFF

RECEPTACLES

(MOUNTED 18" AFF)

R₂₁₋₂ DUPLEX RECEPTACLE, "R21" INDICATES PANEL, "2" INDICATES CIRCUIT NUMBER, "E" INDICATES WIRED TO EMERGENCY PANEL

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP

DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT INTERRUPTER

DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT INTERRUPTER MOUNTED 6" ABOVE COUNTER TOP

DOUBLE DUPLEX RECEPTACLE

DUPLEX RECEPTACLE ONE HALF SWITCH CONTROLLED

DUPLEX RECEPTACLE FLOOR MOUNTED

SPECIAL PURPOSE RECEPTACLE, "Z" INDICATES TYPE, SEE SPECIAL PURPOSE RECEPTACLE SCHEDULE

FACTORY WIRED, UL LISTED, MULTIOUTLET ASSEMBLY, "24" INDICATES DUPLEX RECEPTACLES MOUNTED ON 24" CENTERS

FIELD WIRED, UL LISTED, MULTIOUTLET ASSEMBLY, DEVICES AS INDICATED

YAG LASER OUTLET

PORTABLE X-RAY OUTLET

FILM VIEWER OUTLET

TWO DUPLEX RECEPTACLES MOUNTED AT 18" AFF AND 24" AFF

SINGLE RECEPTACLE

SAFETY TYPE DUPLEX RECEPTACLE

OPERATING ROOM POWER AND GROUND MODULE, "C" INDICATES CEILING MOUNTED

TELECOMMUNICATIONS

(MOUNTED 18" AFF)

TELEPHONE OUTLET

TELEPHONE OUTLET MOUNTED 54" AFF

TELEPHONE OUTLET FLOOR MOUNTED

CEILING MOUNTED TELEPHONE OUTLET

TELEPHONE OUTLET, PAYPHONE

TELEPHONE OUTLET, SECURITY

COMPUTER SYSTEM OUTLET

COMBINATION TELEPHONE/DATA OUTLET

TELEPHONE OUTLET

EMERGENCY PHONE, PROVIDE 3/4" C TO BAPTIST FOURTH FLOOR IT ROOM, COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH BAPTIST

SYMBOL LIST

MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS

FIRE ALARM SYSTEM

MANUAL PULL STATION MOUNTED 48" AFF

ADA COMPLIANT AUDIOVISUAL ALARM MOUNTED 80" AFF, "V" INDICATES VISUAL UNIT ONLY

NON ADA COMPLIANT AUDIOVISUAL ALARM MOUNTED 80" AFF

PHOTOELECTRIC SMOKE DETECTOR

PHOTOELECTRIC SMOKE DETECTOR IN ELEVATOR LOBBY FOR ELEVATOR RECALL

PATIENT ROOM PHOTOELECTRIC SMOKE DETECTOR, "A" INDICATES CONNECTION TO PATIENT ROOM FIRE ALARM ANNUNCIATOR AT RESPECTIVE NURSES STATION

RATE-OF-RISE, FIXED TEMPERATURE HEAT DETECTOR

FIXED TEMPERATURE HEAT DETECTOR, "180" INDICATES FIXED TEMPERATURE NO SUBSCRIPT INDICATED 135°

TAMPER SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR

MAGNETIC DOOR HOLD OPEN DEVICE, FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR

FIRE ALARM MASTER BOX

DUCT SMOKE DETECTOR

REMOTE ALARM INDICATOR AND TEST SWITCH FOR DUCT SMOKE DETECTOR WITH NAMEPLATE LABELED ACCORDINGLY, "2" INDICATES NUMBER OF INDICATORS GANGED TOGETHER

REMOTE ALARM INDICATOR FOR SMOKE DETECTOR IN ELECTRIC, TELEPHONE AND OTHER ROOMS AS INDICATED ON THE DRAWINGS WITH NAMEPLATE LABELED ACCORDINGLY

FIRE SMOKE DAMPER

FIRE COMMAND CENTER

FIRE ALARM REMOTE ANNUNCIATOR

FIRE ALARM TERMINAL CABINET

FIRE ALARM REMOTE DATA GATHERING PANEL

ELEVATOR WARNING LIGHT

FIRE FIGHTERS PHONE (JACK) (PHONE AND CABINET)

PATIENT ROOM SMOKE INDICATOR LIGHT

CONNECTION TO FIRE ALARM SYSTEM

CONTROL MODULE

ZONE ALARM MODULE

EXTERIOR FIRE ALARM BEACON

BEAM SMOKE DETECTOR TRANSMITTER

BEAM SMOKE DETECTOR RECEIVER

SOUND SYSTEM

SPEAKER, FLUSH CEILING MOUNTED

SPEAKER, FLUSH WALL MOUNTED

MICROPHONE OUTLET

MICROPHONE OUTLET, FLOOR MOUNTED

REMOTE VOLUME CONTROL

AMPLIFIER AND CENTRAL EQUIPMENT

SOUND SYSTEM JUNCTION BOX

TRUMPET SPEAKER

SECURITY SYSTEM

SECURITY CAMERA, FURNISHED AND INSTALLED BY OWNER

4" SQUARE JUNCTION BOX WITH 3/4" BUSSED COVER PLATE MOUNTED 6-8" AFF FOR CONNECTION TO SECURITY CAMERA

3/4" C RUN CONCEALED FROM SECURITY CAMERA OR DOOR ALARM JUNCTION BOX TO MAIN SECURITY EQUIPMENT

4" SQUARE JUNCTION BOX MOUNTED ABOVE HUNG CEILING WITH FLEXIBLE CONNECTION TO DOOR SWITCH DOOR SWITCH FURNISHED AND INSTALLED BY OWNER, WIRED BY ELECTRICAL SUBCONTRACTOR

4" SQUARE JUNCTION BOX MOUNTED ABOVE HUNG CEILING FOR 120 VOLT CARD READER EQUIPMENT

PANIC BUTTON, FURNISHED, INSTALLED AND WIRED BY OWNER

4" SQUARE JUNCTION BOX MOUNTED ABOVE HUNG CEILING WITH 3/4" C STUBBED INTO DOOR FRAME FOR SECURITY SYSTEM MANUFACTURERS USE

CARD READER

PEDESTAL MOUNTED CARD READER

POWER DISTRIBUTION EQUIPMENT

DISTRIBUTION PANEL

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

JUNCTION BOX, SIZED PER NEC

MOTOR, "2" INDICATES HORSEPOWER

MAGNETIC MOTOR STARTER

MANUAL MOTOR STARTER WITH THERMAL OVERLOAD, "P" INDICATES PILOT LIGHT

NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED, "6P" INDICATES 6 POLE

FUSED DISCONNECT SWITCH, SIZE OF SWITCH AND FUSE AS REQUIRED

COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH, SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED

DRY-TYPE DISTRIBUTION TRANSFORMER

ONE LINE POWER DIAGRAM

LOAD-BREAK SWITCH

FUSE, SIZE AS INDICATED

TRANSFORMER, SIZE AS INDICATED

CIRCUIT BREAKER

DRAW-OUT CIRCUIT BREAKER

W/KEY INTERLOCK

POTENTIAL TRANSFORMER

CURRENT TRANSFORMER

SOLID STATE TRIP UNIT

GROUND

AMMETER

AMMETER SWITCH

VOLTMETER

VOLTMETER SWITCH

PLUG-IN BUSWAY

FEEDER BUSWAY

CABLE TAP BOX

PLUG-IN BUSWAY CIRCUIT BREAKER

DRY TYPE TRANSFORMER, "2" INDICATES SIZE, REFER TO DRY TYPE TRANSFORMER SCHEDULE

"K" FACTOR DRY TYPE TRANSFORMER, "2" INDICATES SIZE, REFER TO "K" FACTOR DRY TYPE TRANSFORMER SCHEDULE

MISCELLANEOUS

CONNECTION TO FIRE SMOKE DAMPER

CONNECTION TO AUTOMATIC DOORS

CONNECTION TO PNEUMATIC TUBE STATION

CONNECTION TO WATER CHILLER MOUNTED BELOW SINK

CONNECTION TO HVAC AIR TERMINAL BOX MOUNTED ABOVE CEILING

CONNECTION TO MOTORIZED PROJECTION SCREEN MOUNTED ABOVE CEILING

CONNECTION TO ELECTRIC WATER COOLER

CONNECTION TO ELEVATOR PRIORITY CALL BUTTON, WALL MOUNTED WITH 3/4" C RUN TO ABOVE CEILING

60 MINUTE TIME SWITCH

ELECTRIC HEATER, FURNISHED AND INSTALLED BY HVAC SUBCONTRACTOR, WIRED BY ELECTRICAL SUBCONTRACTOR

ELECTRIC RE-HEAT COIL FURNISHED AND INSTALLED BY HVAC SUBCONTRACTOR, WIRED BY ELECTRICAL SUBCONTRACTOR

TWO GANG OUTLET BOX WITH TELEVISION ANTENNA OUTLET AND ADJACENT DUPLEX RECEPTACLE, RUN 3/4" C FROM OUTLET BOX TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING

TWO GANG OUTLET BOX WITH MONITOR OUTLET AND ADJACENT DUPLEX RECEPTACLE, RUN 3/4" C FROM OUTLET BOX TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING

PUSHBUTTON AND PLATE

120 VOLT CLOCK HANGER OUTLET, CLOCK FURNISHED AND INSTALLED BY OWNER

CENTRAL SYSTEM CLOCK WIRED TO CORRECTIVE CLOCK WIRING SYSTEM

BUZZERBELL, LOW VOLTAGE

LOW VOLTAGE TRANSFORMER, 120 VOLT TO 24 VAC

MUSHROOM TYPE PUSHBUTTON STATION FOR ACTIVATION OF SHUNT-TRIP DEVICE ON LABORATORY PANEL MAIN CIRCUIT BREAKER

ISOLATION PANEL REMOTE INDICATOR

7 DAY ASTRONOMICAL TIME CLOCK

REMOTE CLOCK COUPLER

CABLE TRAY, "12" INDICATES WIDTH

ABBREVIATIONS

A AMPERES

AF AMPERE FRAME (CIRCUIT BREAKER RATING)

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AIC AMPERE INTERRUPTING CAPACITY

AL ALUMINUM

ARCH ARCHITECT

AT AMPERE TRIP (CIRCUIT BREAKER RATING)

ATS AUTOMATIC TRANSFER SWITCH

AWG AMERICAN WIRE GAUGE

BLDG BUILDING

C CONDUIT

C.B. CIRCUIT BREAKER

C.T. CURRENT TRANSFORMER

CAT CATALOG

CR CIRCUIT

COL COLLUM

CU COPPER

Δ DELTA

DWG DRAWING

E WIRED ON EMERGENCY CIRCUIT

EC EMPTY CONDUIT

EM EMERGENCY

ENL EXISTING IN NEW LOCATION

ETD EXISTING TO BE DEMOLISHED AND REMOVED

ETR EXISTING TO REMAIN

ETRL EXISTING TO BE REMOVED AND REUSED/RELOCATED

F FLUSH

FT FEET

G GROUND

KMIL ONE THOUSAND CIRCULAR MILS

KVA KILOVOLT-AMPERES

KVAR KILOVOLT-AMPERES REACTIVE

KW KILOWATTS

MCB MAIN CIRCUIT BREAKER

MCC MOTOR CONTROL CENTER

MISC MISCELLANEOUS

MLO MAIN LUGS ONLY

NC NORMALLY CLOSED

NEC NATIONAL ELECTRICAL CODE

NL NIGHT LIGHT

NO NORMALLY OPEN

NTS NOT TO SCALE

∩ PHASE

P POLE

P.T. POTENTIAL TRANSFORMER

PVC POLYVINYL CHLORIDE

R RECESSED

S SURFACE

SCR SHORT CIRCUIT INTERRUPTING RATING

SP SPARE

SW SWITCH

TEL TELEPHONE

UG UNDERGROUND

V VOLT

Y WYE

W WATT

WP WEATHERPROOF

XFR TRANSFORMER

BRANCH CIRCUIT WIRING NOTES:

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS

2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS

3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED

4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED

5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS, VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL, AND GROUND CONDUCTORS.

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11	CITY OF MIAMI BEACH PERMIT COMMENTS	08/28/20
8	ZONING & GENERAL REVISIONS	11/12/20
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3	CITY OF MIAMI BEACH REVISIONS	11/28/14
NO	ISSUE	DATE

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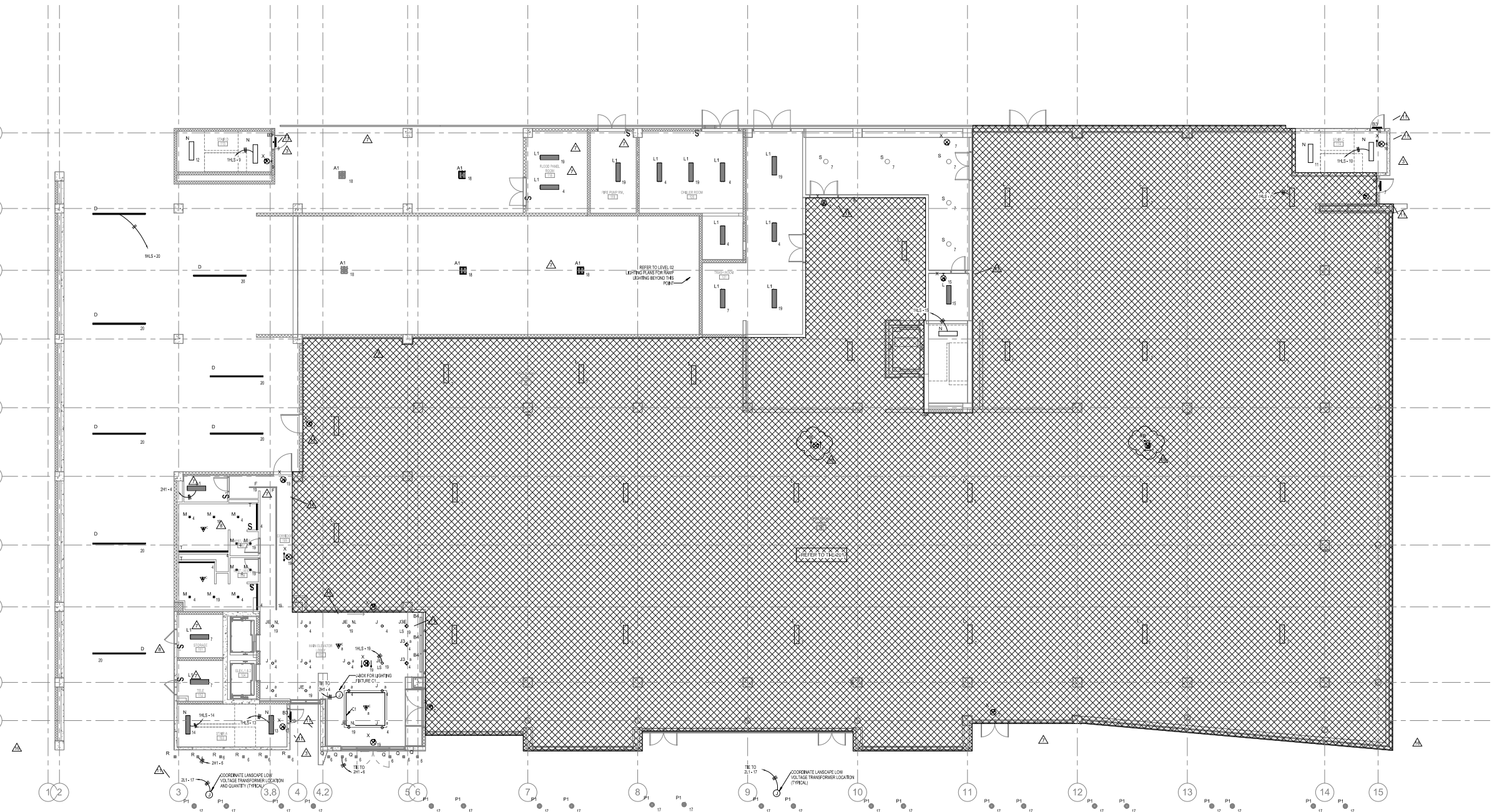
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Title

LEVEL 1 LIGHTING
PLAN

Sheet

E-101



1 LEVEL 01 LIGHTING PLAN
1/8\"/>

GENERAL LIGHTING NOTES

1. REFER TO ARCHITECT'S SELECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES PRIOR TO INSTALLATION (TYPICAL).
2. LOCATION AND GROUPING ARRANGEMENT ORIENTATION OF ALL SWITCHES SHALL BE COORDINATED WITH THE ARCHITECT AND MECHANICAL EQUIPMENT PRIOR TO INSTALLATION (TYPICAL).
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND COORDINATE FIXTURE TYPES PRIOR TO PURCHASE OF LIGHTING FIXTURES.
4. REFER TO DRAWING LEGEND SHEET FOR SYMBOLS LIST AND LIGHTING FIXTURE SCHEDULE.
5. ALL LIGHTING FIXTURES IN THE GARAGE AND IS-BELL SPACES SHALL BE MOUNTED SO THAT THE BOTTOM OF THE FIXTURE SHALL BE AT THE SAME HEIGHT AS THE BOTTOM OF THE BEAMS.
6. ALL EMERGENCY LIGHTING FIXTURES IN LOBBIES AND CORRIDORS WILL BE CONTINUED.

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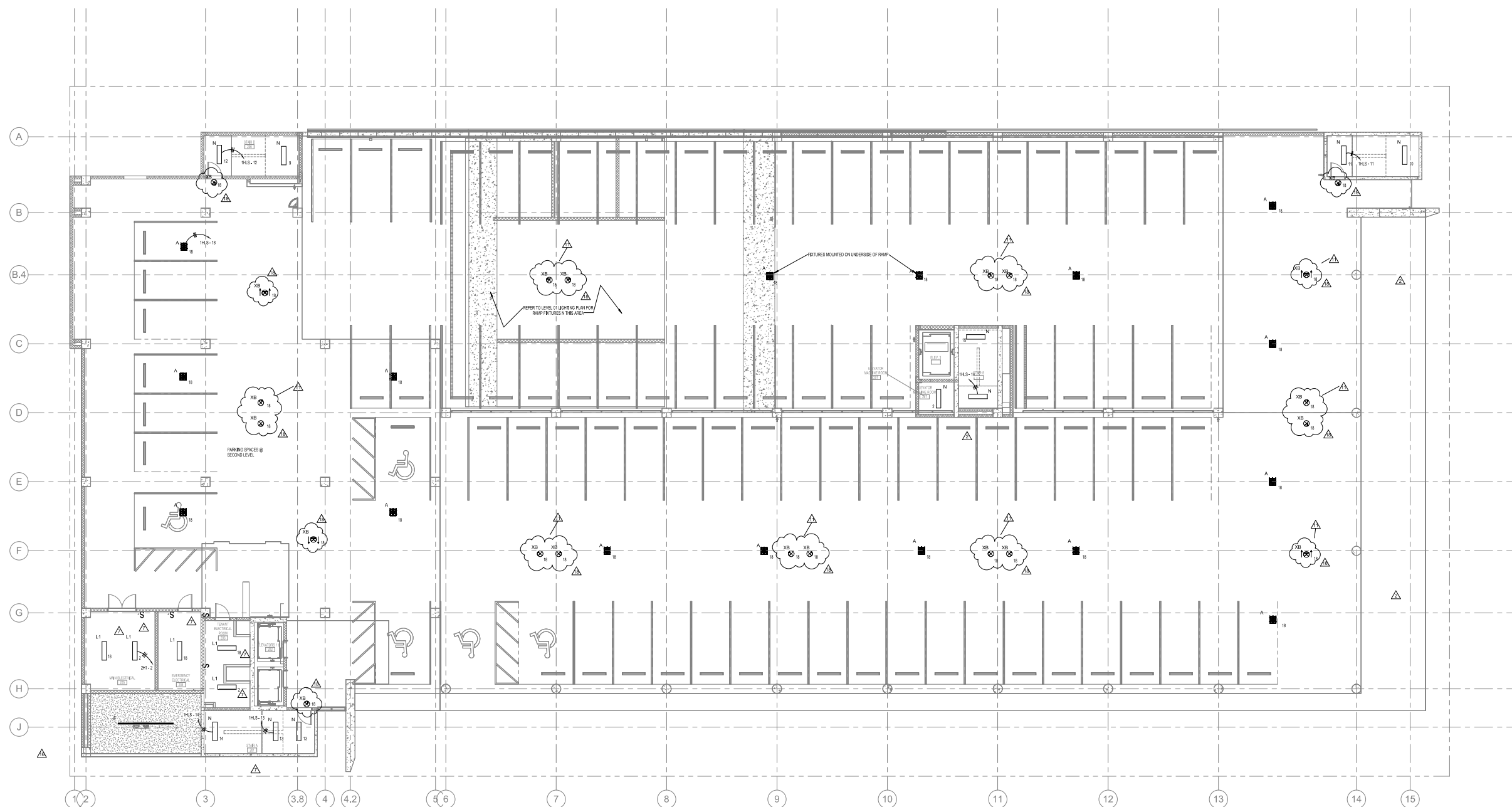
Revisions

18	PERMIT COMMENTS & FIELD COORDINATION	07/21/17
16	CS AND T.I. FIELD COORDINATION	03/31/17
11	CITY OF MIAMI BEACH PERMIT COMMENTS	08/26/2016
7	VE CHANGES	08/14/2015
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**LEVEL 2 LIGHTING
PLAN**

Sheet
E-102

1 LEVEL 02 LIGHTING PLAN
1/8" = 1'-0"

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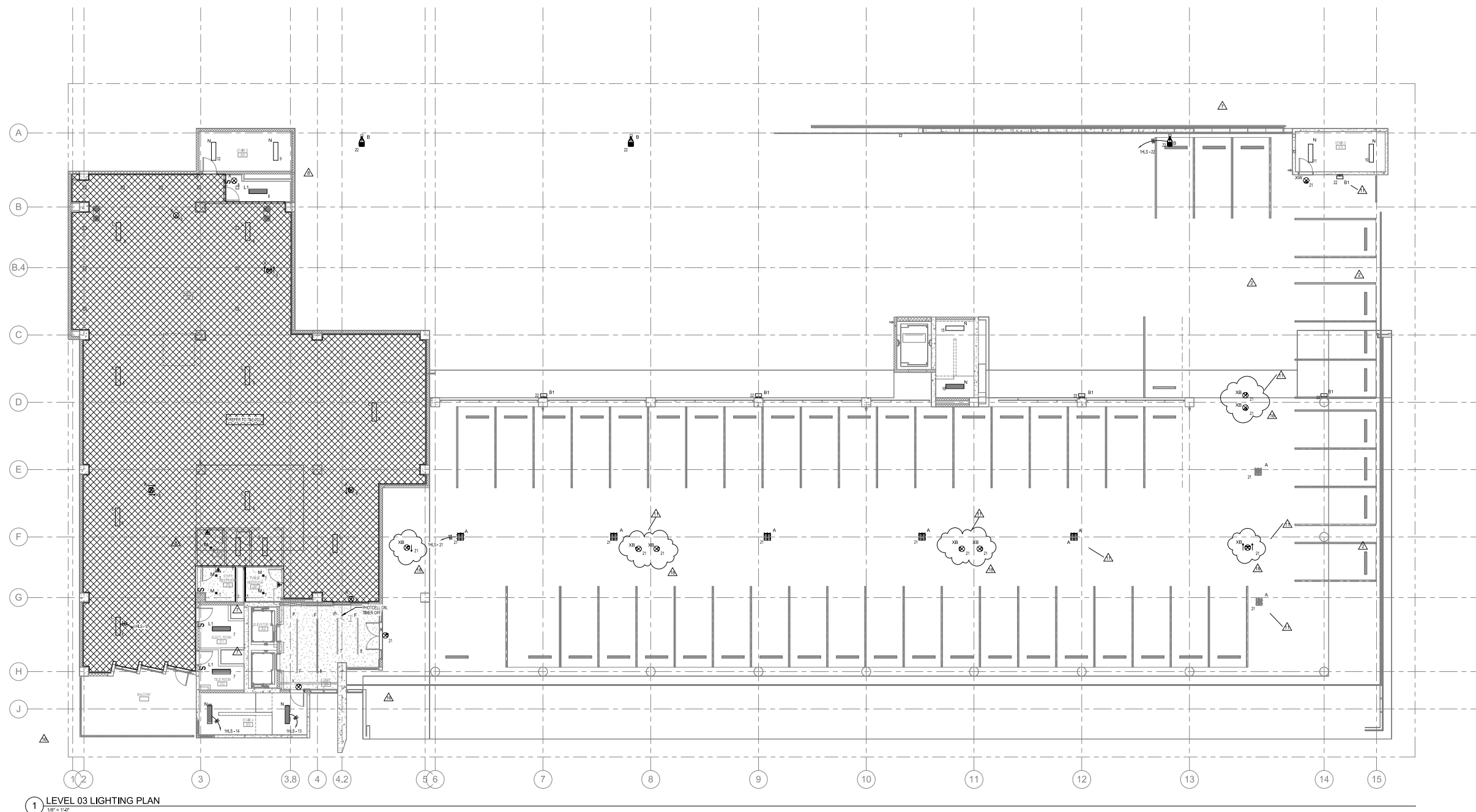
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LEVEL 3 LIGHTING PLAN

Sheet

E-103

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1 LEVEL 03 LIGHTING PLAN
1/8" = 1'-0"

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Revisions

18	PERMIT COMMENTS & FIELD COORDINATION	07/21/17
16	PCS AND T1 FIELD COORDINATION	03/07/17
11	CITY OF MIAMI BEACH PERMIT COMMENTS	08/05/16
9	CONTRACT GENERAL REVISIONS	11/12/15
7	VE CHANGES	08/14/15
5	DERM COMMENTS	07/08/15
4	ISSUE DATE	1

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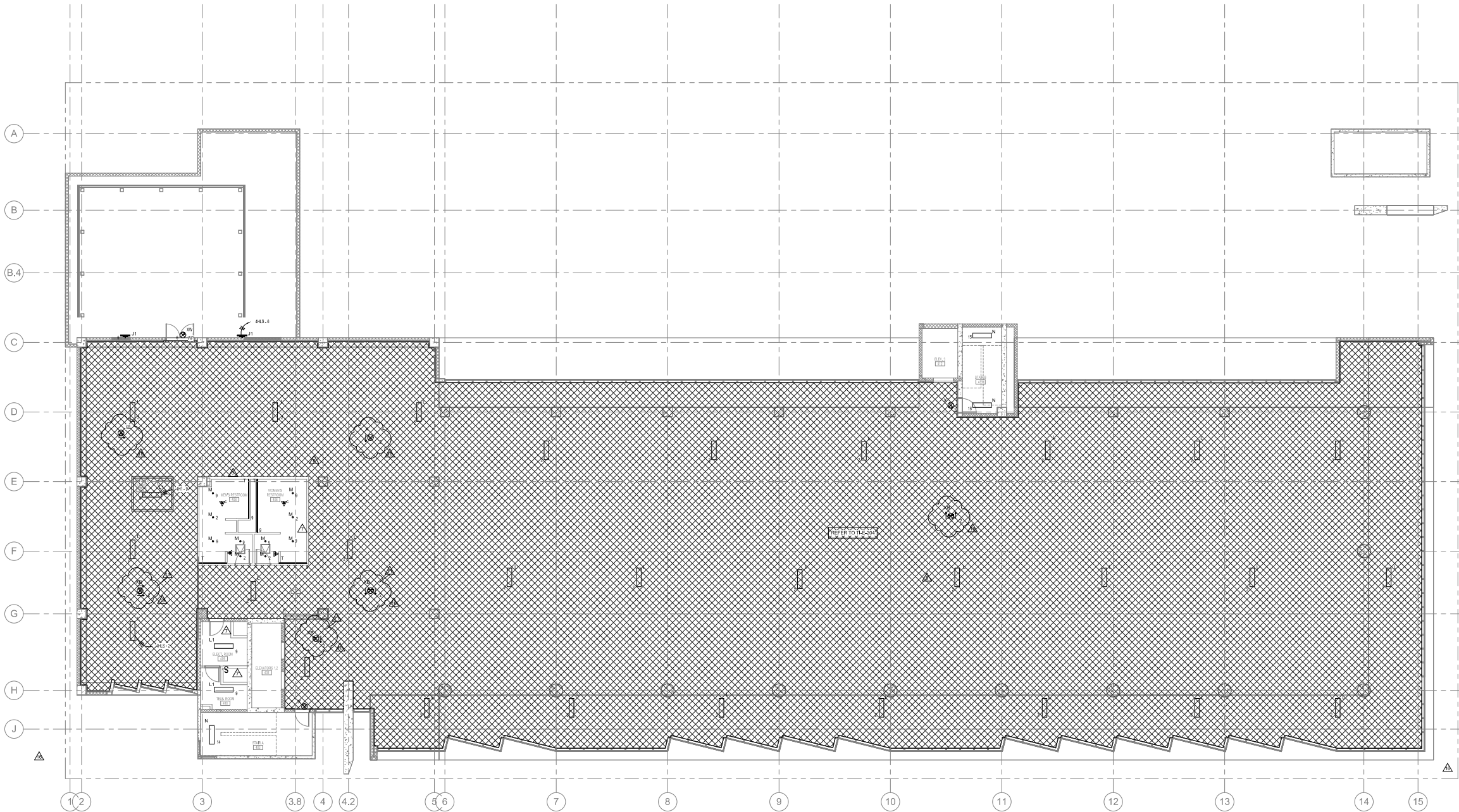
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LEVEL 4 LIGHTING PLAN

Sheet

E-104



1 LEVEL 04 LIGHTING PLAN
1/8" = 1'-0"

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16	CS AND TAYLOR	3/9/17
7	COORDINATION	09/14/2015
7	ISSUE CHANGES	15
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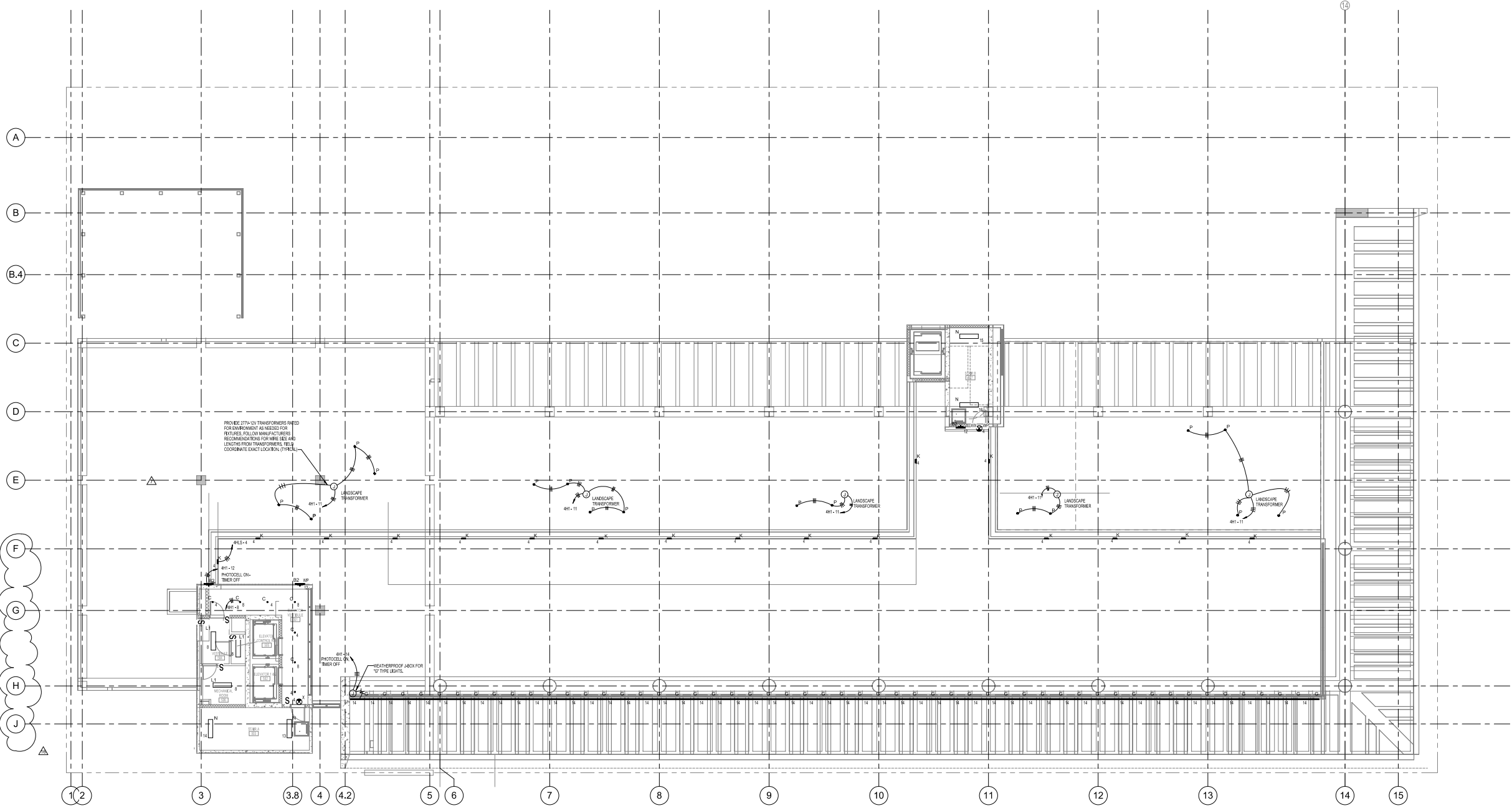
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LEVEL 5 LIGHTING
PLAN

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E-105



1 LEVEL 05 LIGHTING PLAN
1/8" = 1'-0"

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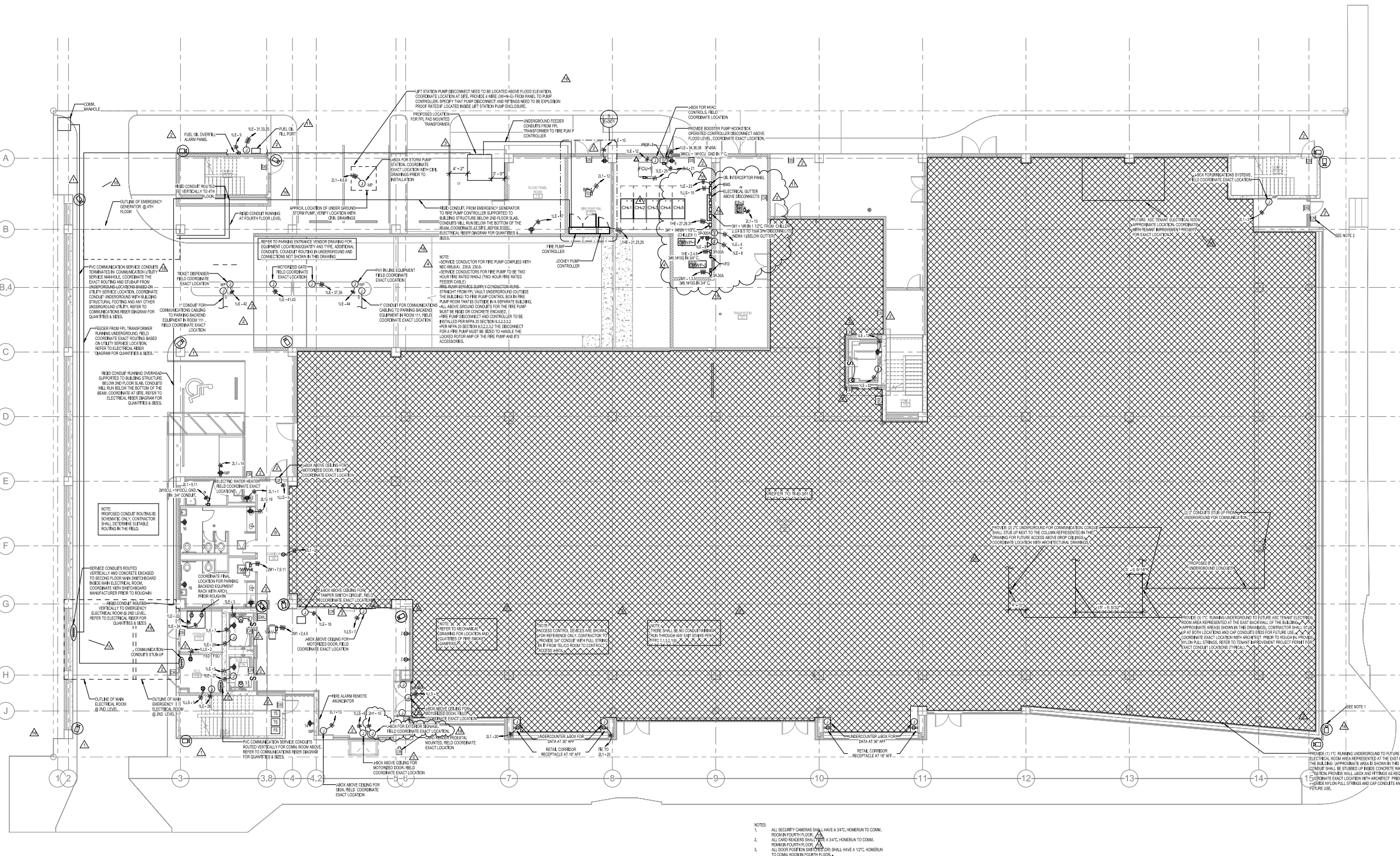
18	PERMIT COMMENTS & FIELD COORDINATION	07/21/17
17	PERMIT COMMENTS & FIELD COORDINATION	04/10/17
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LEVEL 1 POWER PLAN

Sheet

E-201



1 LEVEL 01 POWER PLAN
1/8" = 1'-0"

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18	PERMIT COMMENTS & FIELD COORDINATION	07/21/17
17	PERMIT COMMENTS & FIELD COORDINATION	04/10/17
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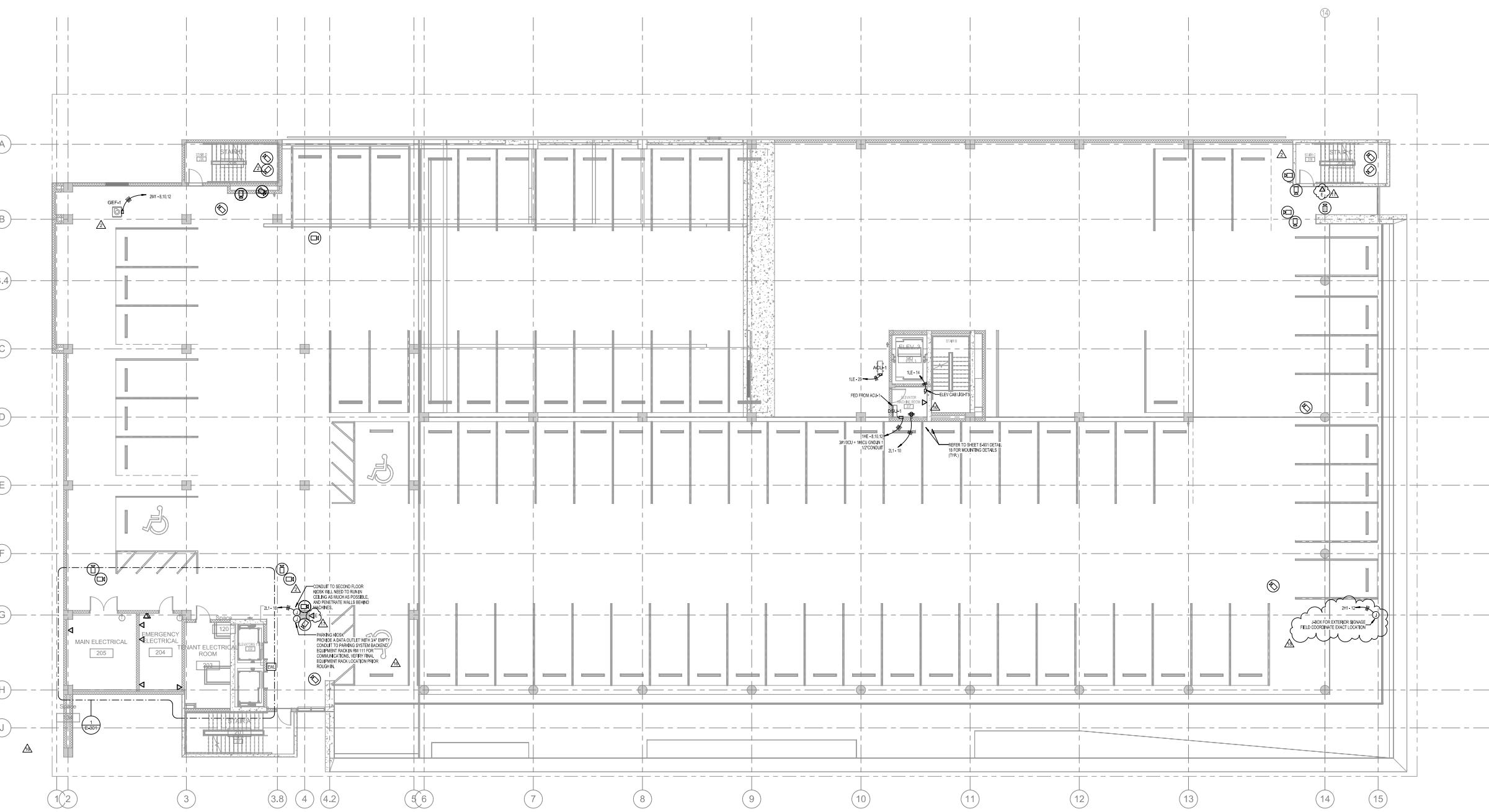
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LEVEL 2 POWER PLAN

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E-202

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1 LEVEL 02 POWER PLAN
1/8\"/>

- NOTES:
- ALL SECURITY CAMERAS SHALL HAVE A 3/4\"/>
 - ALL CORD HOLDERS SHALL HAVE A 3/4\"/>
 - ALL CORD HOLDERS SHALL HAVE A 3/4\"/>



2H-10
ASB FOR EXTERIOR BRIDGE
FIELD COORDINATE EXACT LOCATION

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Revisions

17	PERMIT COMMENTS & FIELD COORDINATION	04/10/17
16	CS AND T.I. FIELD COORDINATION	03/31/17
8	ZONING & GENERAL REVISIONS	11/12/2015
7	VE CHANGES	08/14/2015
2	QA/QC REVISIONS	11/26/14
NO	ISSUE	DATE

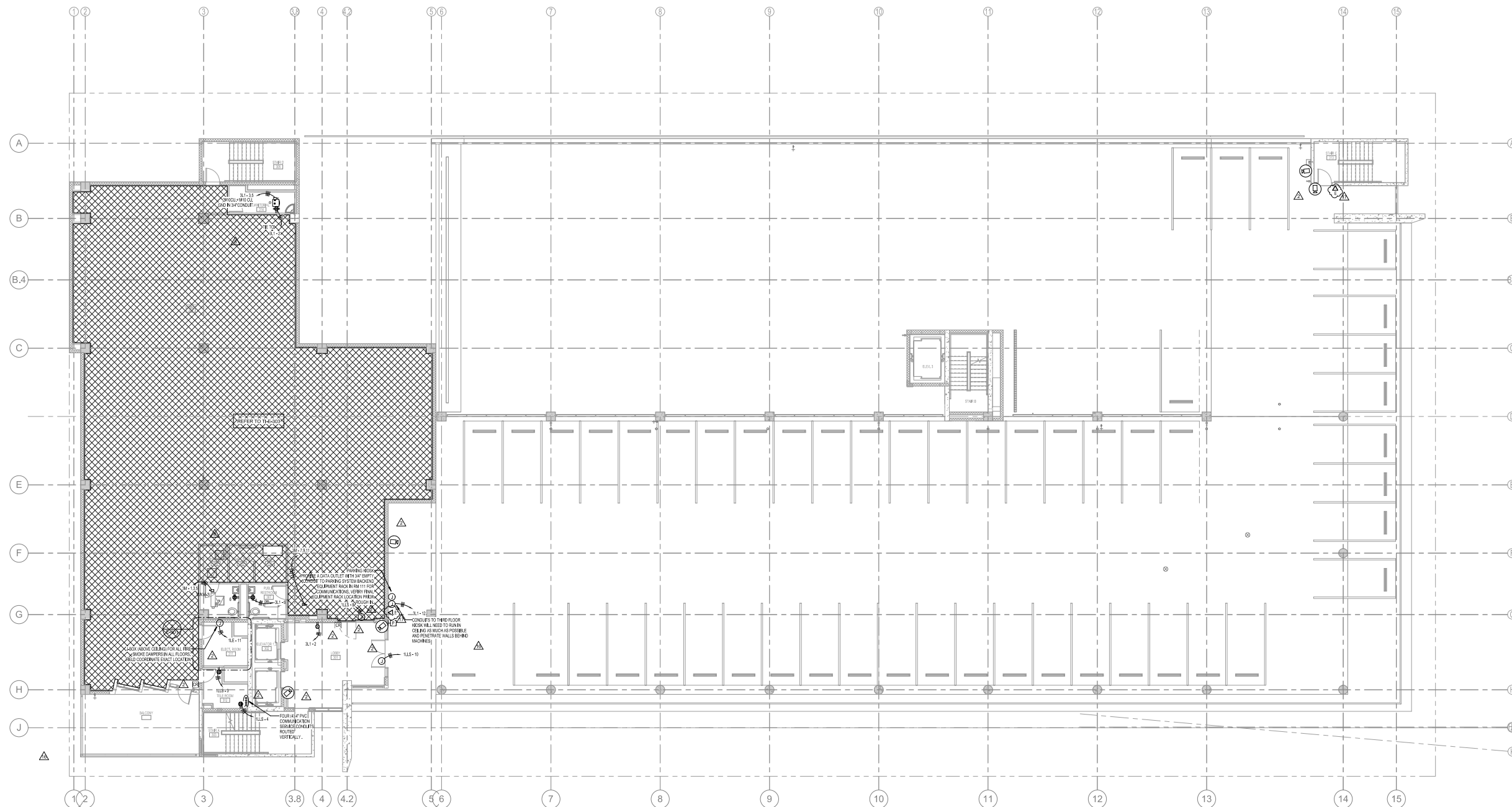
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LEVEL 3 POWER PLAN

Sheet
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1 LEVEL 03 POWER PLAN
1/8" = 1'-0"

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Revisions

10	CS AND T.F. FIELD	3/30/17
11	COORDINATION	
12	CITY OF MIAMI BEACH	09/26/20
13	PERMIT COMMENTS	11/12/20
14	REVISIONS	15
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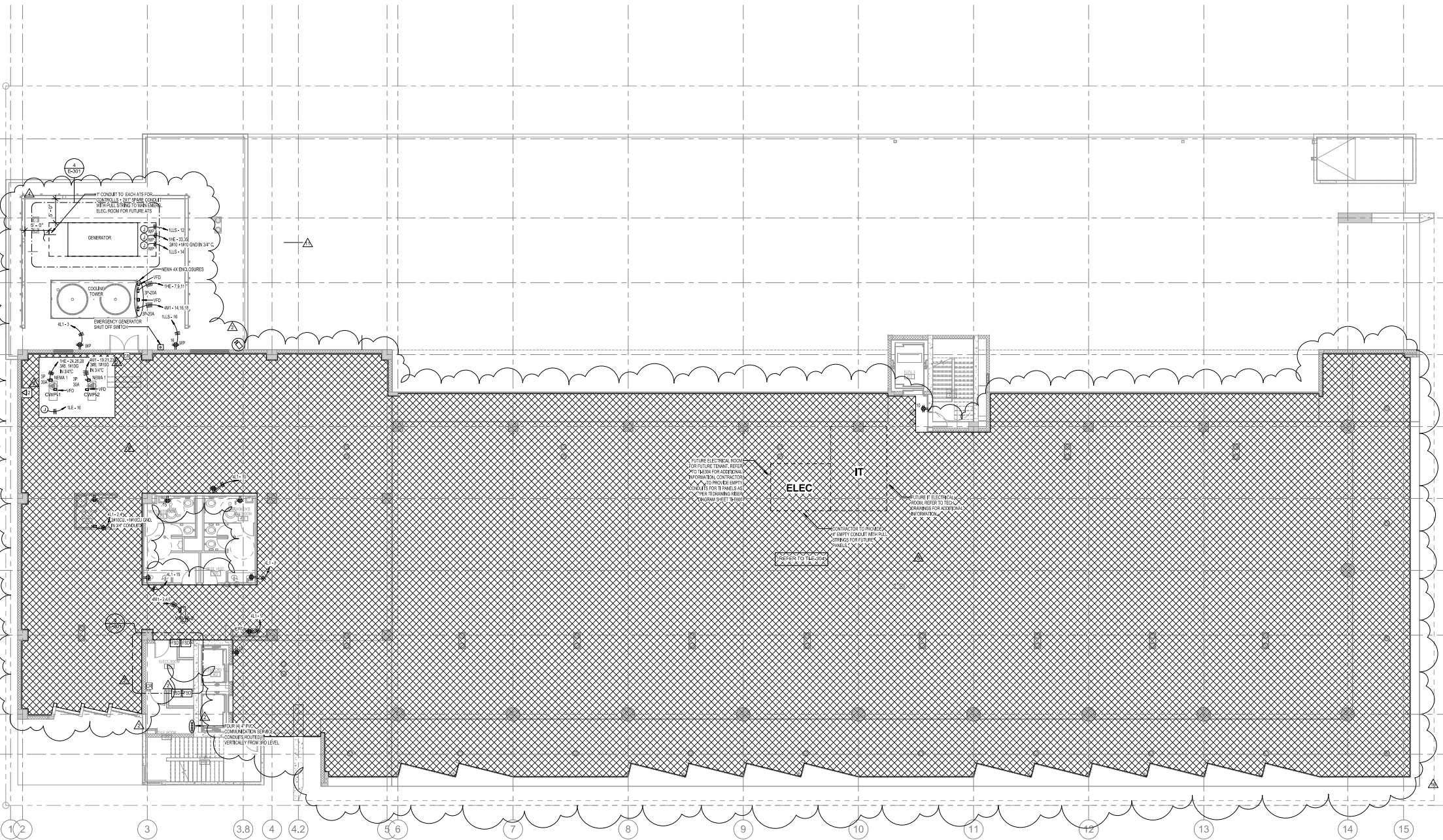
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LEVEL 4 POWER PLAN

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1 LEVEL 04 POWER PLAN
1/8" = 1'-0"

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Revisions

16	CS AND T.I FIELD COORDINATION	3/3/1
7	VE CHANGES	08/14/2
2	QA/QC REVISIONS	11/26/1
NO	ISSUE	DATE

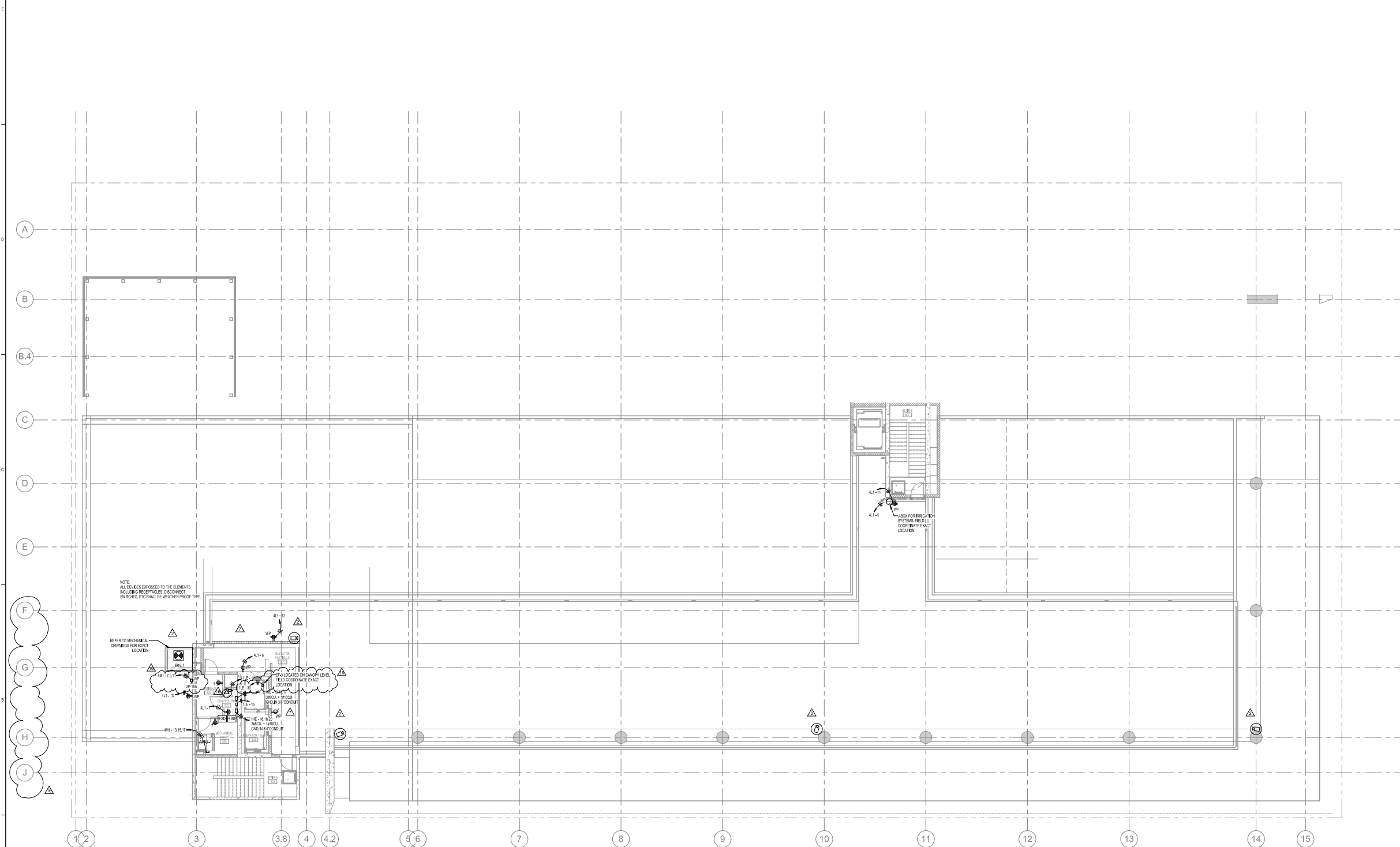
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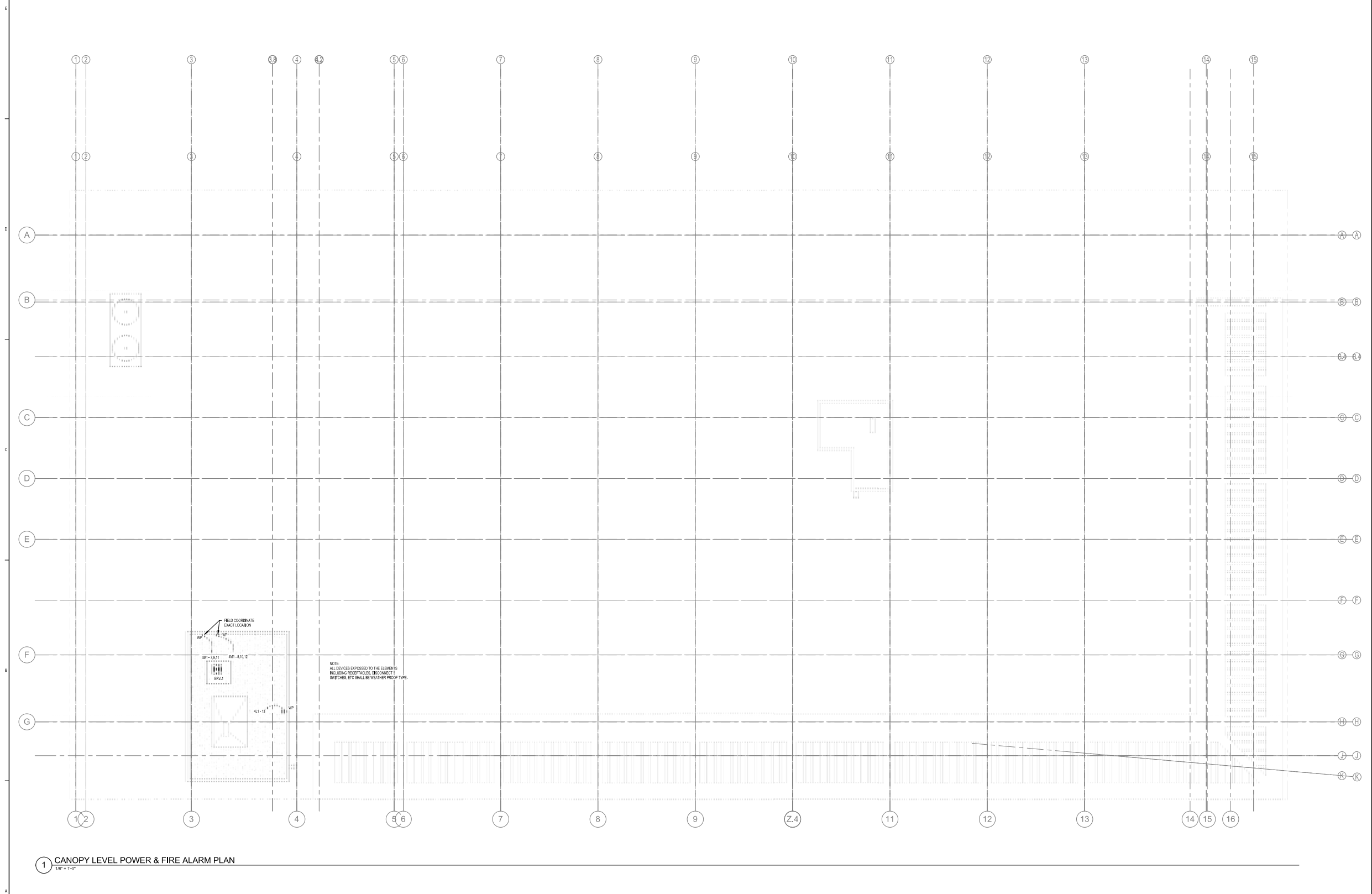
LEVEL 5 POWER PLAN

Sheet
E-205

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1 LEVEL 05 POWER PLAN
1/8" = 1'-0"



1 CANOPY LEVEL POWER & FIRE ALARM PLAN

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CANOPY LEVEL POWER & FIRE ALARM PLAN

Sheet

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Revisions

16	CS AND T.J FIELD COORDINATION	3/3/17
NO	ISSUE	DATE

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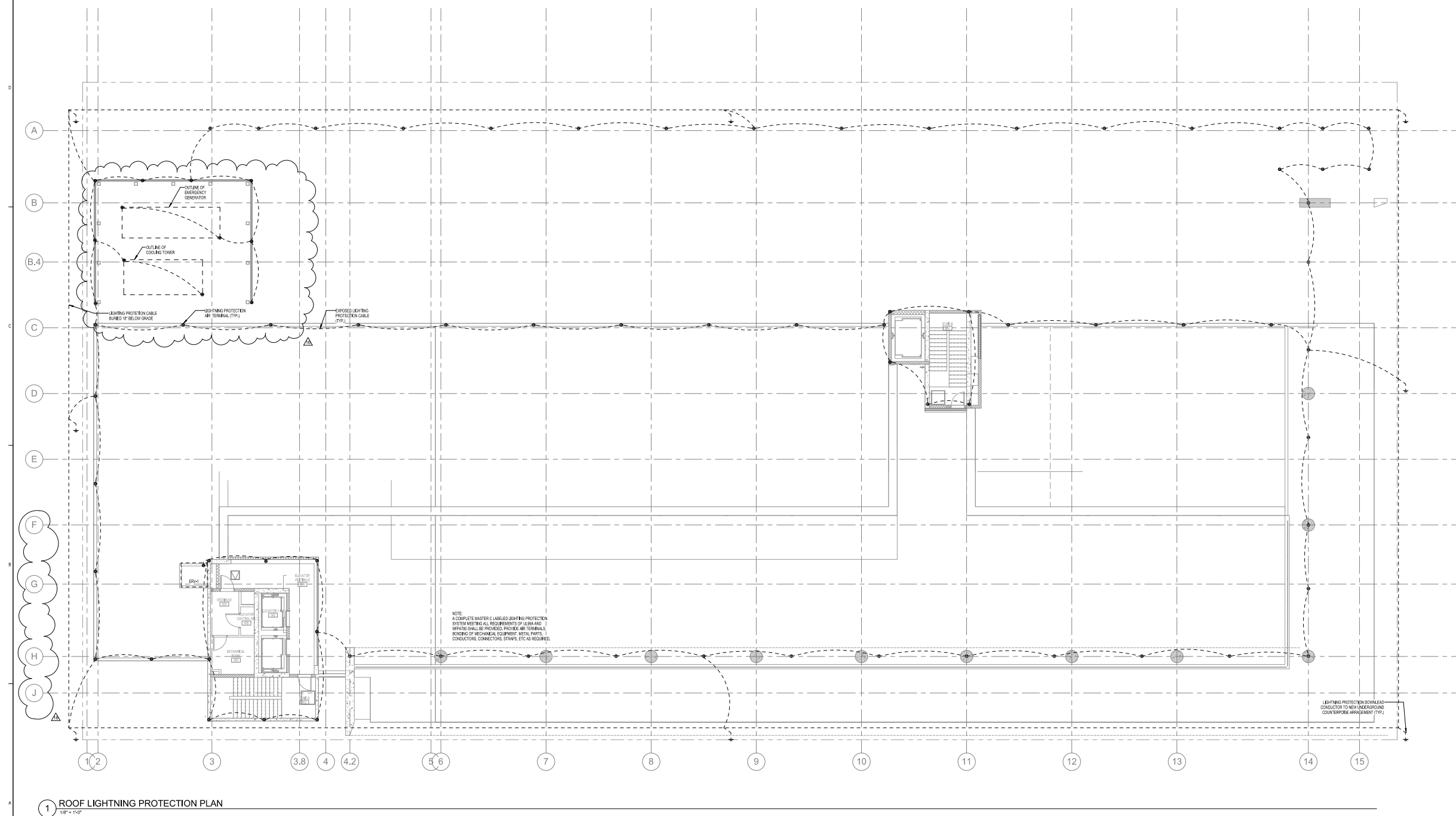
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Title
**LIGHTNING
PROTECTION
PLAN**

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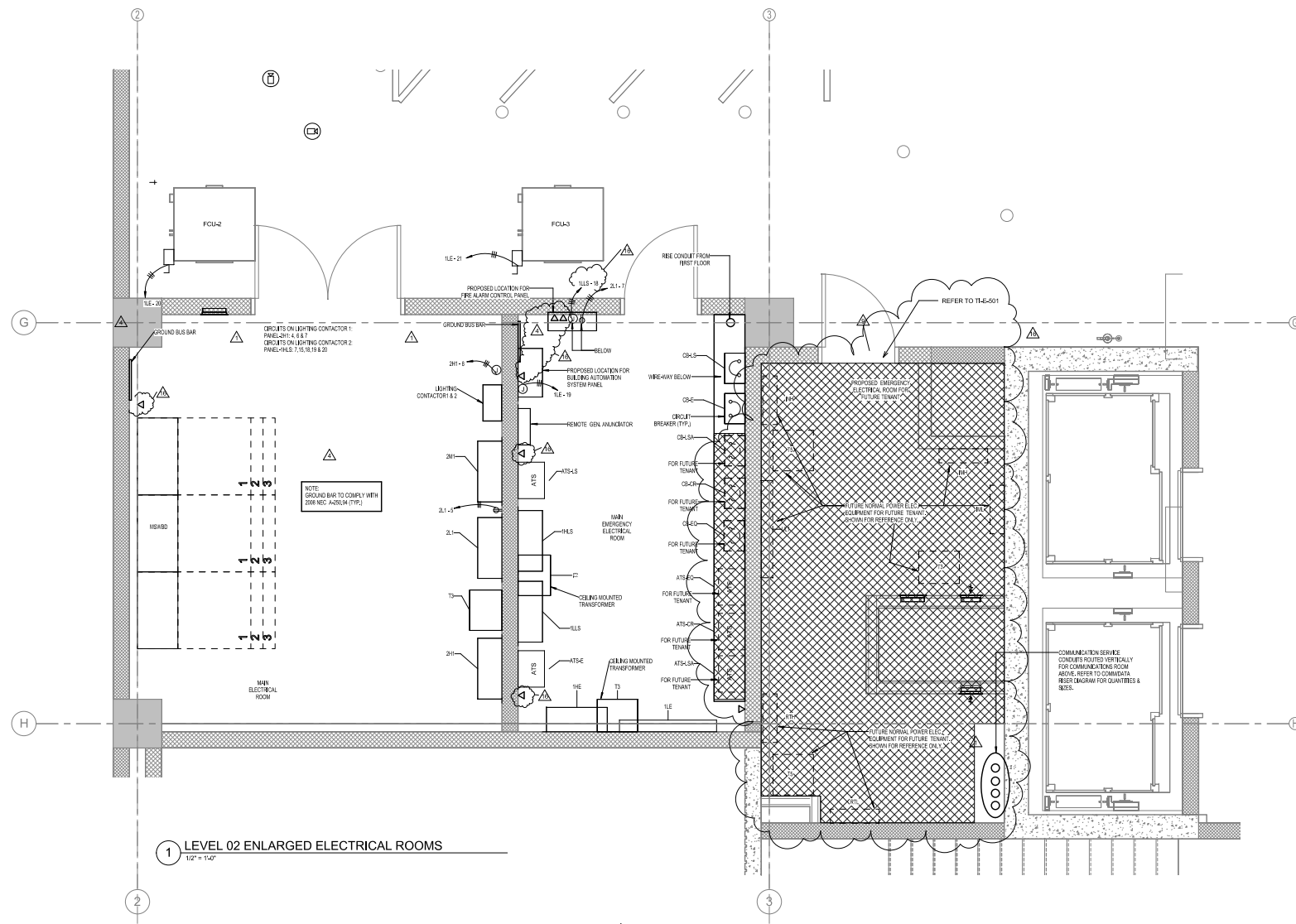
Revisions

16	CS AND TJ FIELD COORDINATION	3/3/17
11	CITY OF MIAMI BEACH PERMIT COMMENTS	08/28/2016
9	COORDINATION	Date 9
4	PERMIT COMMENTS	02/18/15
1	REVISED PERMIT COMMENTS	11/29/14
NO	ISSUE	DATE

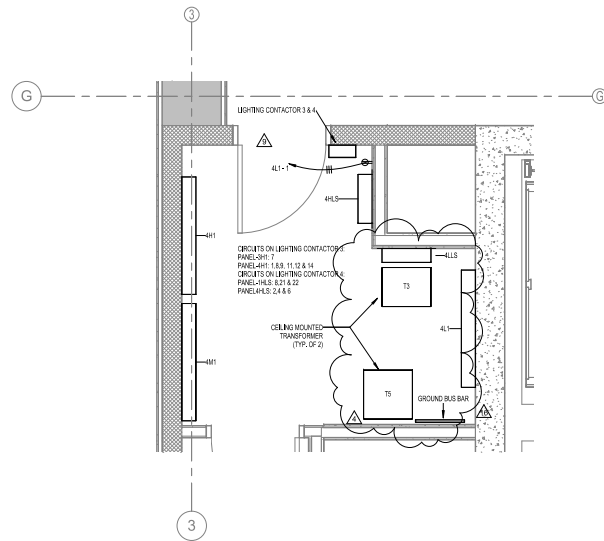
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Title
ENLARGED
ELECTRICAL
ROOMS

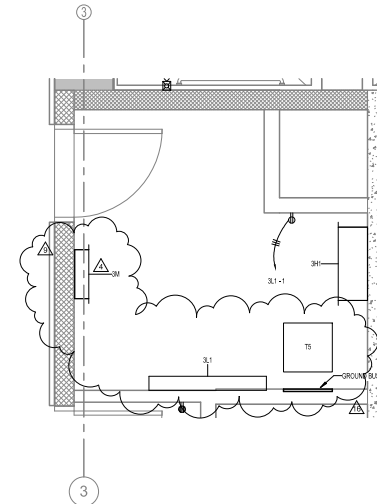
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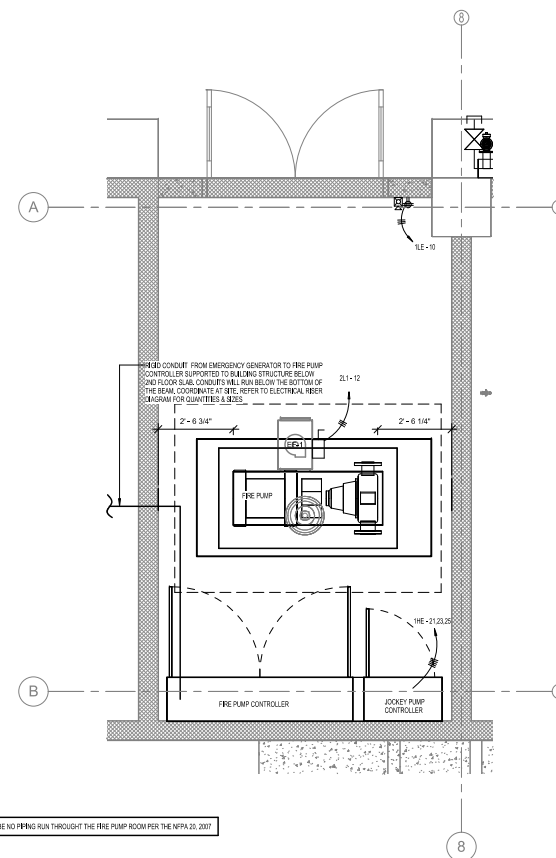
1 LEVEL 02 ENLARGED ELECTRICAL ROOMS
1/2" = 1'-0"



3 LEVEL 04 ENLARGED ELECTRICAL ROOM
1/2" = 1'-0"



2 LEVEL 03 ENLARGED ELECTRICAL ROOM
1/2" = 1'-0"



5 LEVEL 01 ENLARGED FIRE PUMP ROOM
1/2" = 1'-0"

NOTE: THERE SHALL BE NO Piping RUN THROUGH THE FIRE PUMP ROOM PER THE NFPA 20, 2007

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9	COORDINATION	Date 9
8	ZONING & GENERAL REVISIONS	11/12/2015
7	VE CHANGES	08/14/2015
4	PERMIT COMMENTS	02/18/15
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NO	ISSUE	DATE

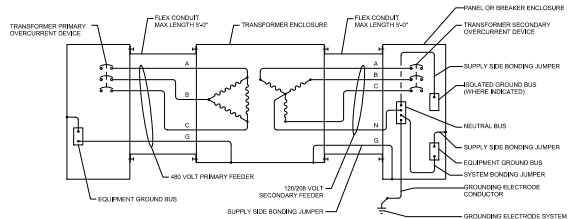
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Sheet
E-401

DRY TYPE TRANSFORMER SCHEDULE										STANDARD TRANSFORMER CONNECTION DIAGRAM
SIZE	PRIMARY VOLTAGE			SECONDARY VOLTAGE	WEGE 1	400 VOLT PRIMARY FEEDER	200/230 VOLT SECONDARY FEEDER			
10	9	11	25	25A 3P	30A 3P	30/150 & 30/250 V	400 & 150/250 V	1500 & 30/250 V		
12	15	18	42	30A 3P	30A 3P	30/150 & 30/250 V	400 & 150/250 V	1500 & 30/250 V		
15	30	36	90	60A 3P	60A 3P	60/300 & 60/500 V	400 & 150/250 V	1500 & 30/250 V		
20	40	48	120	80A 3P	100A 3P	80/400 & 100/500 V	400 & 150/250 V	1500 & 30/250 V		
25	60	72	180	125A 3P	250A 3P	125/625 & 250/500 V	400 & 150/250 V	1500 & 30/250 V		
30	150	180	450	250A 3P	500A 3P	250/1250 & 500/500 V	400 & 150/250 V	1500 & 30/250 V		
35	180	216	540	300A 3P	600A 3P	300/1500 & 600/500 V	400 & 150/250 V	1500 & 30/250 V		
40	225	270	675	400A 3P	800A 3P	400/2000 & 800/500 V	400 & 150/250 V	1500 & 30/250 V		
50	288	346	864	500A 3P	1000A 3P	500/2500 & 1000/500 V	400 & 150/250 V	1500 & 30/250 V		
60	360	432	1080	600A 3P	1200A 3P	600/3000 & 1200/500 V	400 & 150/250 V	1500 & 30/250 V		
75	450	540	1350	750A 3P	1500A 3P	750/3750 & 1500/500 V	400 & 150/250 V	1500 & 30/250 V		
90	540	648	1620	900A 3P	1800A 3P	900/4500 & 1800/500 V	400 & 150/250 V	1500 & 30/250 V		
110	660	792	1980	1100A 3P	2200A 3P	1100/5500 & 2200/500 V	400 & 150/250 V	1500 & 30/250 V		
125	750	900	2250	1250A 3P	2500A 3P	1250/6250 & 2500/500 V	400 & 150/250 V	1500 & 30/250 V		
150	900	1080	2700	1500A 3P	3000A 3P	1500/7500 & 3000/500 V	400 & 150/250 V	1500 & 30/250 V		
175	1050	1260	3150	1750A 3P	3500A 3P	1750/8750 & 3500/500 V	400 & 150/250 V	1500 & 30/250 V		
200	1200	1440	3600	2000A 3P	4000A 3P	2000/10000 & 4000/500 V	400 & 150/250 V	1500 & 30/250 V		
225	1350	1620	4050	2250A 3P	4500A 3P	2250/11250 & 4500/500 V	400 & 150/250 V	1500 & 30/250 V		
250	1500	1800	4500	2500A 3P	5000A 3P	2500/12500 & 5000/500 V	400 & 150/250 V	1500 & 30/250 V		
300	1800	2160	5400	3000A 3P	6000A 3P	3000/15000 & 6000/500 V	400 & 150/250 V	1500 & 30/250 V		
350	2100	2520	6300	3500A 3P	7000A 3P	3500/17500 & 7000/500 V	400 & 150/250 V	1500 & 30/250 V		
400	2400	2880	7200	4000A 3P	8000A 3P	4000/20000 & 8000/500 V	400 & 150/250 V	1500 & 30/250 V		
450	2700	3240	8100	4500A 3P	9000A 3P	4500/22500 & 9000/500 V	400 & 150/250 V	1500 & 30/250 V		
500	3000	3600	9000	5000A 3P	10000A 3P	5000/25000 & 10000/500 V	400 & 150/250 V	1500 & 30/250 V		
550	3300	3960	9900	5500A 3P	11000A 3P	5500/27500 & 11000/500 V	400 & 150/250 V	1500 & 30/250 V		
600	3600	4320	10800	6000A 3P	12000A 3P	6000/30000 & 12000/500 V	400 & 150/250 V	1500 & 30/250 V		
650	3900	4680	11700	6500A 3P	13000A 3P	6500/32500 & 13000/500 V	400 & 150/250 V	1500 & 30/250 V		
700	4200									

DRY TYPE TRANSFORMER SCHEDULE NOTES

- | | |
|----|--|
| 1. | ALL HARVEST AND REJECTION CONDUCTORS SHALL BE COVERED IN CONDUIT CONFORMING WITH THE FOLLOWING: |
| 2. | WINDLASHES, BELT DRUMS, CONDUCTOR TIE-INS, AND OTHER EQUIPMENT SHALL BE COVERED IN EXTERNAL INSULATED CONDUIT WITH TRANSFORMER OIL-RESISTANT POLYMER LAMINATE AND CONFORM TO THE REQUIREMENTS OF THE COORDINATION STUDY. TRANSFORMER OIL SHALL BE REPLACED BY THE COORDINATED BREAKING CAPABILITY OF THE COORDINATION STUDY. |
| 3. | SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED IN A PANELBOARD, INTERMEDIATE BREAKERS OR INDIVIDUALLY MOUNTED CIRCUIT BREAKERS. SECONDARY OVERCURRENT PROTECTION DEVICES SHALL BE LOCATED AT THE LOWEST VOLTAGE OF SECONDARY OVERCURRENT PROTECTION DEVICES. |
| 4. | USE OF INSULATED ELECTRICAL CONDUIT, SYSTEMS, RINGS, LAMP AND SUPPLY END, INSULATED LAMP. |
| 5. | THE INSULATED ELECTRICAL CONDUIT SHALL BE LOCATED IN A PANELBOARD OR IN CONDUIT FROM THE ACTUALITY TO THE INSULATED ELECTRICAL SYSTEM. |
| 6. | SECONDARY EQUIPMENT SHOULD BE COVERED IN A PANELBOARD OR INDIVIDUALLY MOUNTED CIRCUIT BREAKERS. |
| 7. | CONDUCTORS SHALL BE PROVIDED WHERE NEARBY CAPABLE AS REQUIRED TO COORDINATE WITH INDIVIDUALLY MOUNTED CIRCUIT BREAKERS. |
| 8. | CONDUCTOR TYPE SHALL BE SAME OR EQUIV. SUBJECT TO THE RESTRICTIONS OF THE NEC AND PROJECT'S PERFORMANCE. |

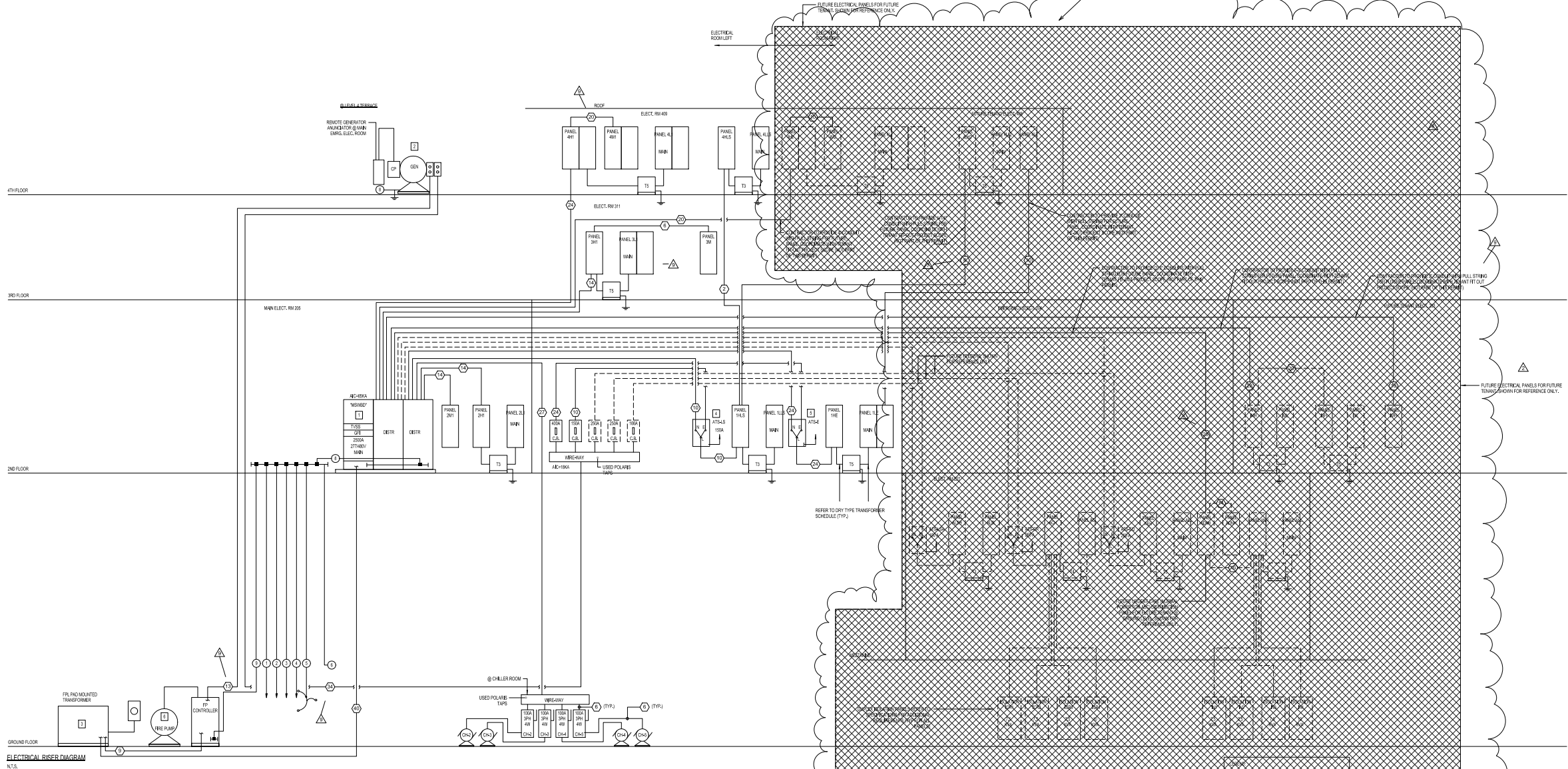


DRY TYPE TRANSFORMER WIRING DIAGRAM

NOTE:
TO THE BEST OF MY KNOWLEDGE AND ABILITY,
THIS PLANS WERE REVIEWED FOR
COMPLIANCE WITH THE 2010 FBC/2008 NEC.

KNOWLEDGE AND ABILITY,
AND FOR
BC/2003 NEC.

REFER TO TI-E-600



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Revisions

16	CS AND T.I FIELD COORDINATION	3/3/17
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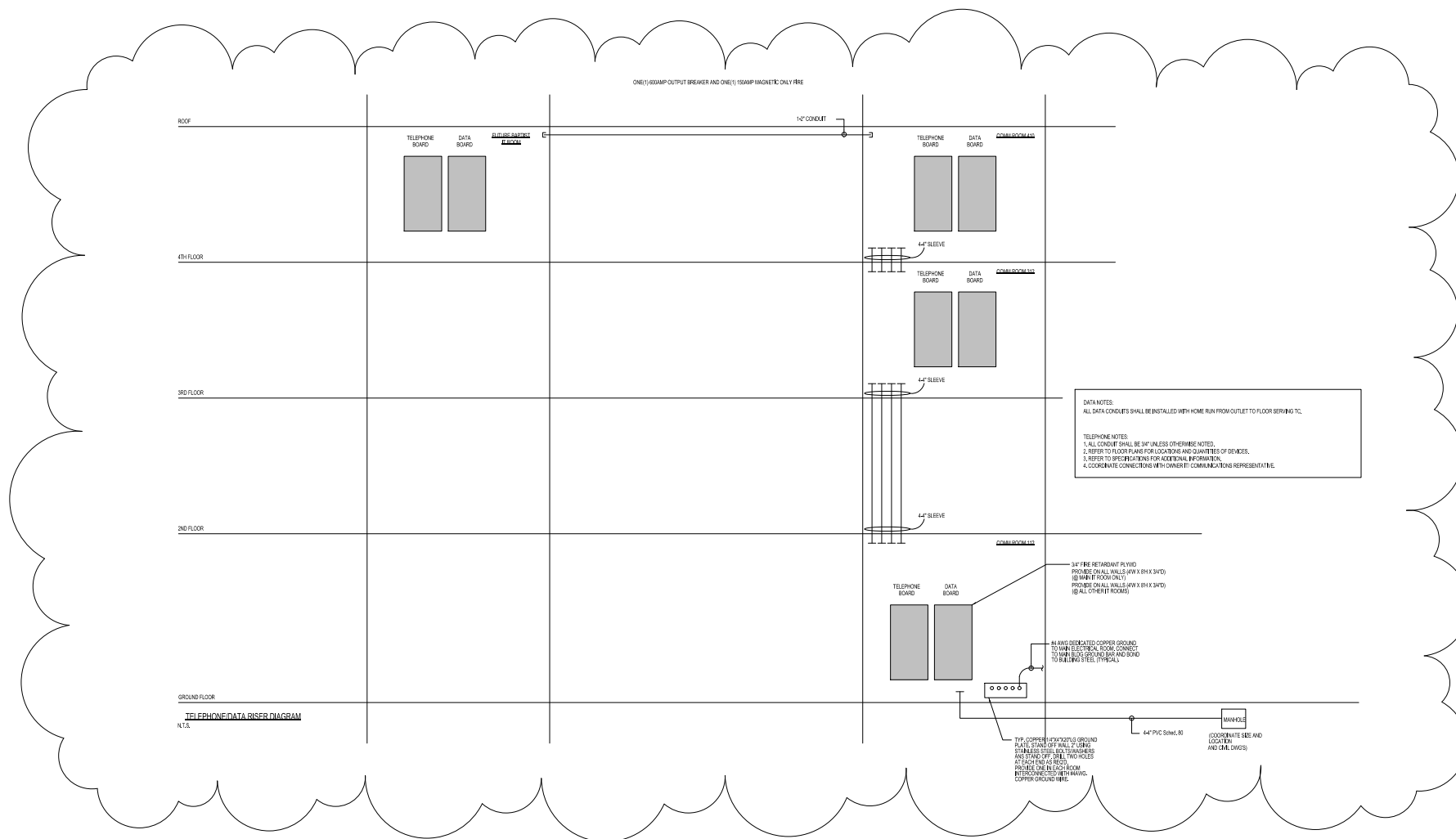
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TELCO/DATA
RISER DIAGRAM

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E-402



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Revisions

16	CS AND TJ FIELD	3/3/17
11	CITY OF MIAMI BEACH	08/28/20
10	PERMIT COMMENTS	11/12/20
9	CONING & GENERAL	11/12/20
8	REVISIONS	11/12/20
7	CITY OF MIAMI BEACH	11/28/14
6	REVISIONS	11/28/14
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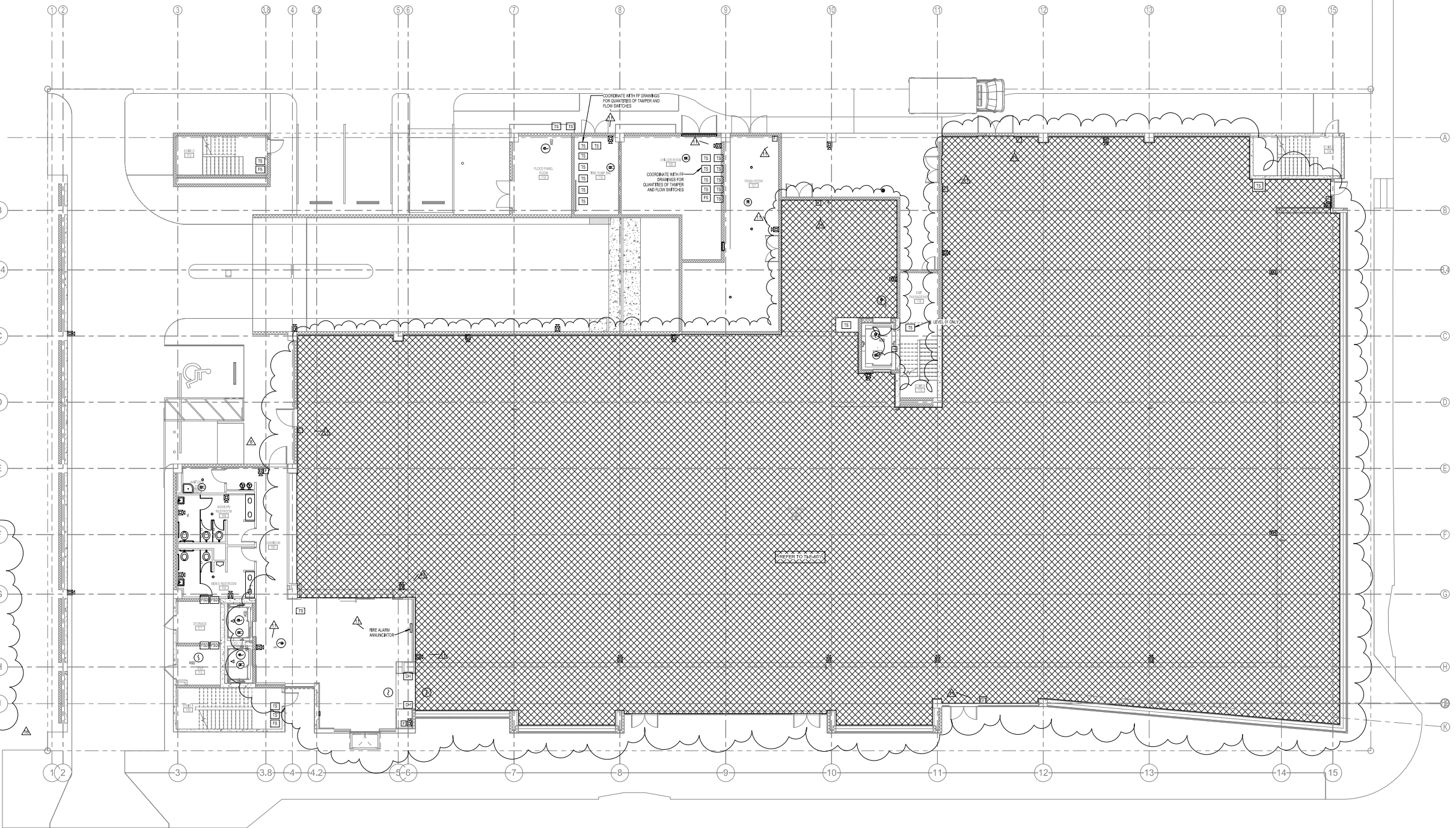
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LEVEL 1 FIRE
ALARM PLAN

Sheet

E-403

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1 FIRE ALARM PLAN LEVEL 01
1/8" = 1'-0"

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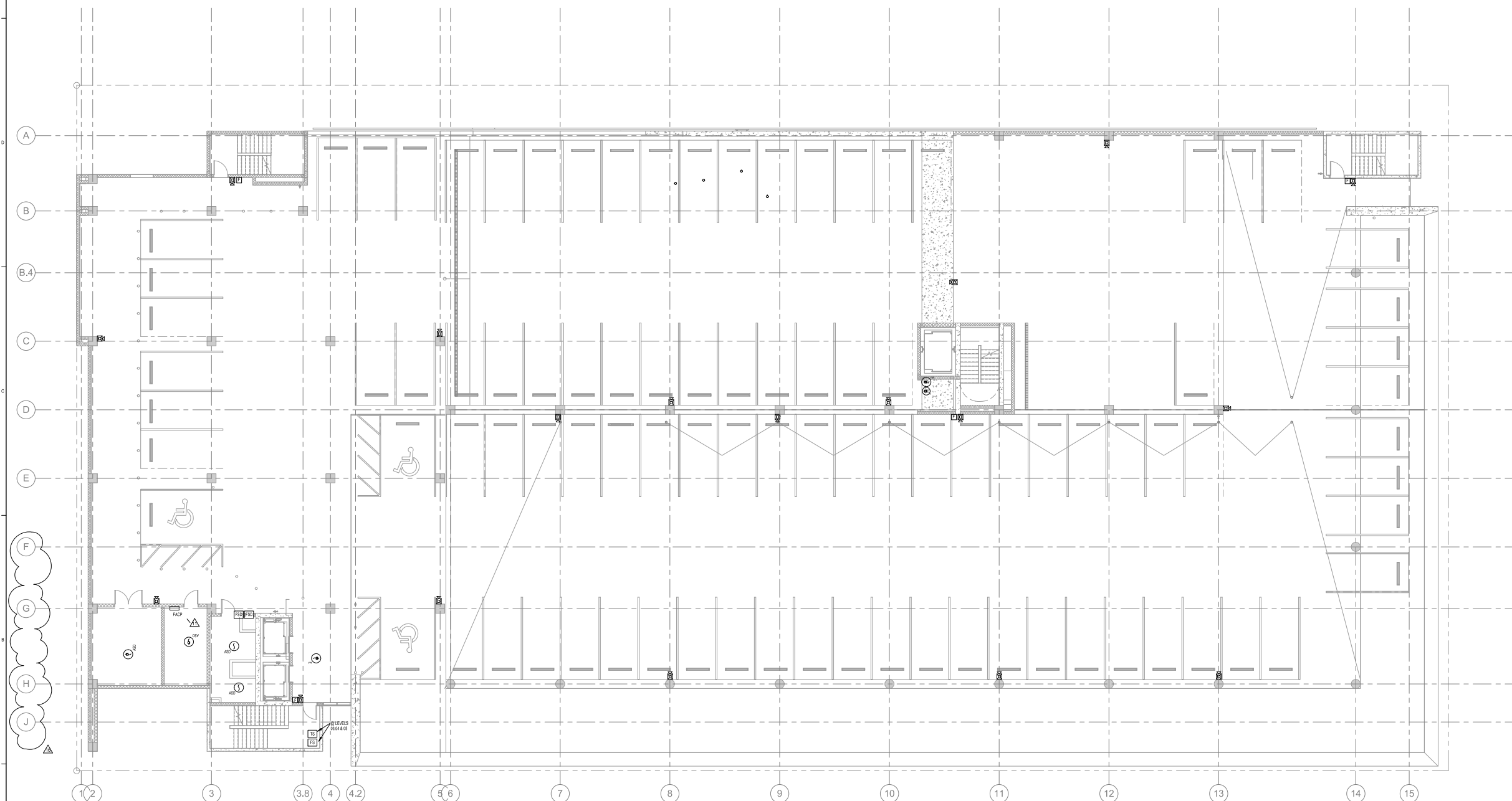
Revisions

16	CS AND T.I FIELD COORDINATION	3/3/17
11	CITY OF MIAMI BEACH PERMIT COMMENTS	08/28/2016
3	CITY OF MIAMI BEACH REVISIONS	11/28/14
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3
LEVEL 2 FIRE
ALARM PLAN

Sheet
E-404

1 FIRE ALARM PLAN LEVEL 02
1/8" = 1'-0"

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Revisions

16	CS AND FIELD COORDINATION	3/9/17
8	ZONING & GENERAL REVISIONS	11/12/20
3	CITY OF MIAMI BEACH REVISIONS	11/28/14
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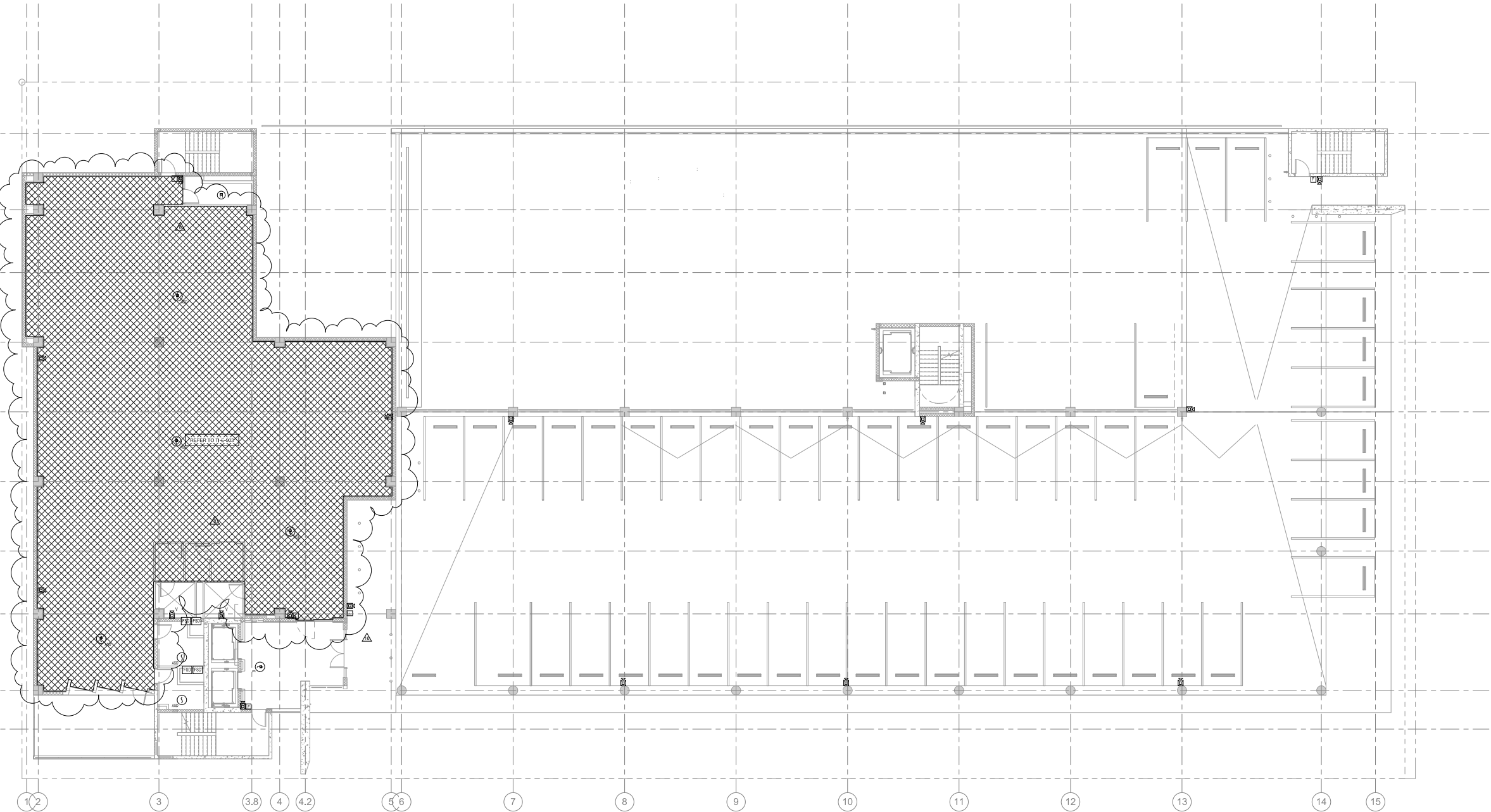
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LEVEL 3 FIRE
ALARM PLAN

Sheet

E-405

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1 FIRE ALARM PLAN LEVEL 03
1/8" = 1'-0"

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Revisions

16	CS AND TJ FIELD COORDINATION	3/3/17
8	ZONING & GENERAL REVISIONS	11/12/20
7	VE CHANGES	08/14/20
3	CITY OF MIAMI BEACH REVISIONS	11/20/14
NO	ISSUE	DATE

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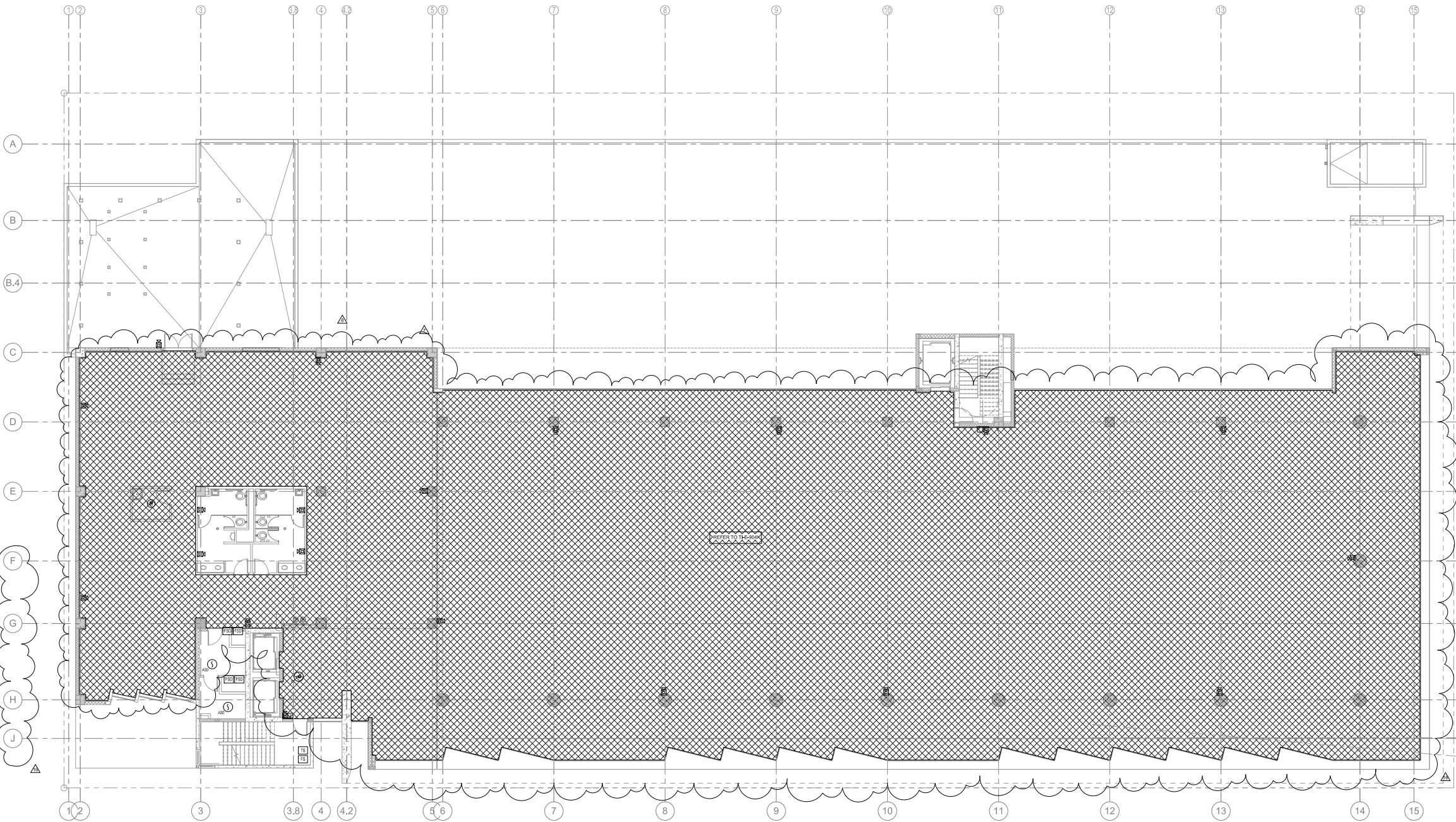
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LEVEL 4 FIRE
ALARM PLAN

Sheet

E-406



1 FIRE ALARM PLAN LEVEL 04

1/8" = 1'-0"

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Revisions

16	CS AND T.I FIELD COORDINATION	3/3/17
3	CITY OF MIAMI BEACH REVISIONS	11/26/14
2	QA/QC REVISIONS	11/26/14
NO	ISSUE	DATE

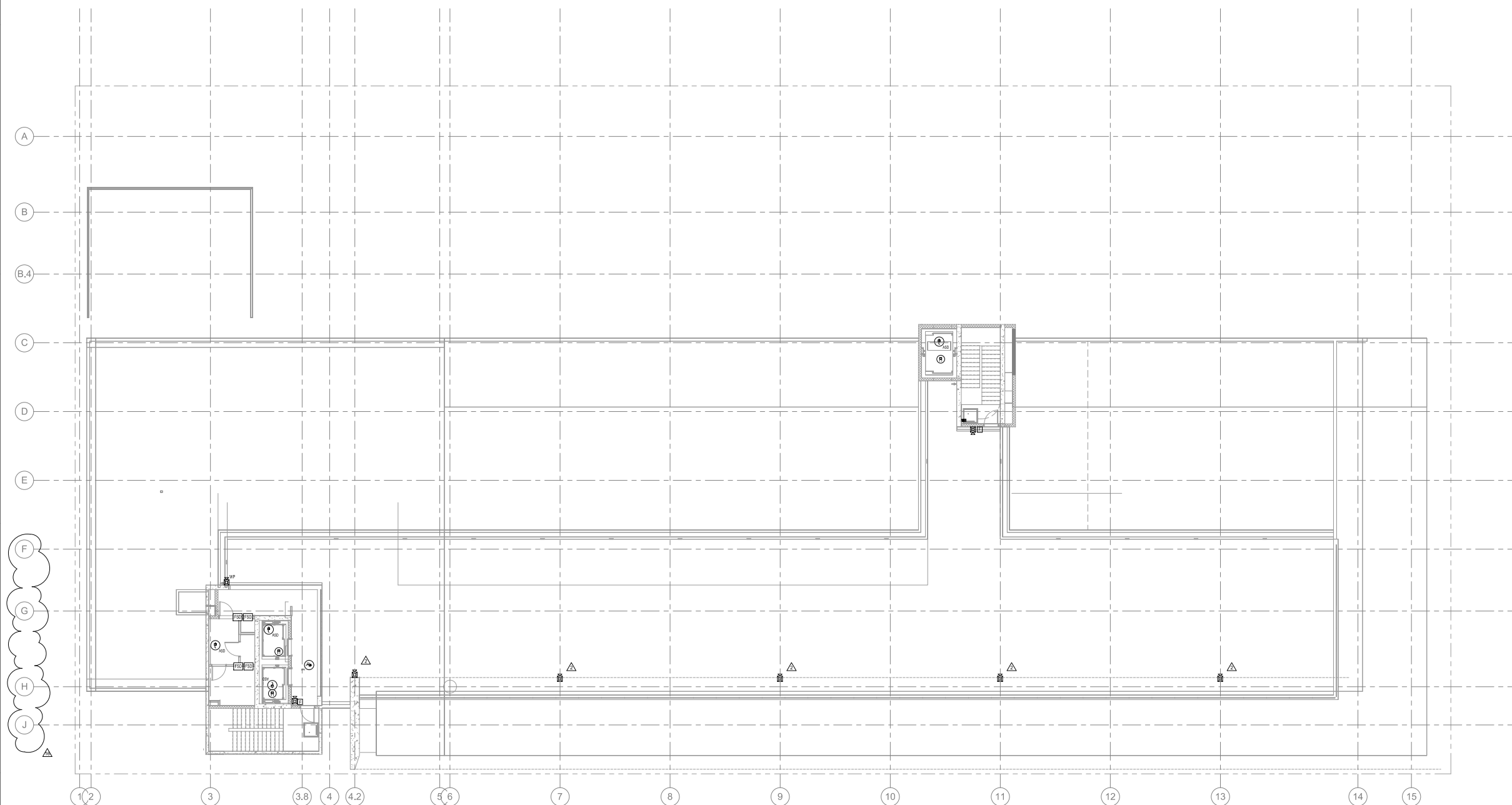
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Title	
	LEVEL 5 FIRE ALARM PLAN

Sheet

E-407



1 FIRE ALARM PLAN LEVEL 05
1/8" = 1'-0"

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Revisions

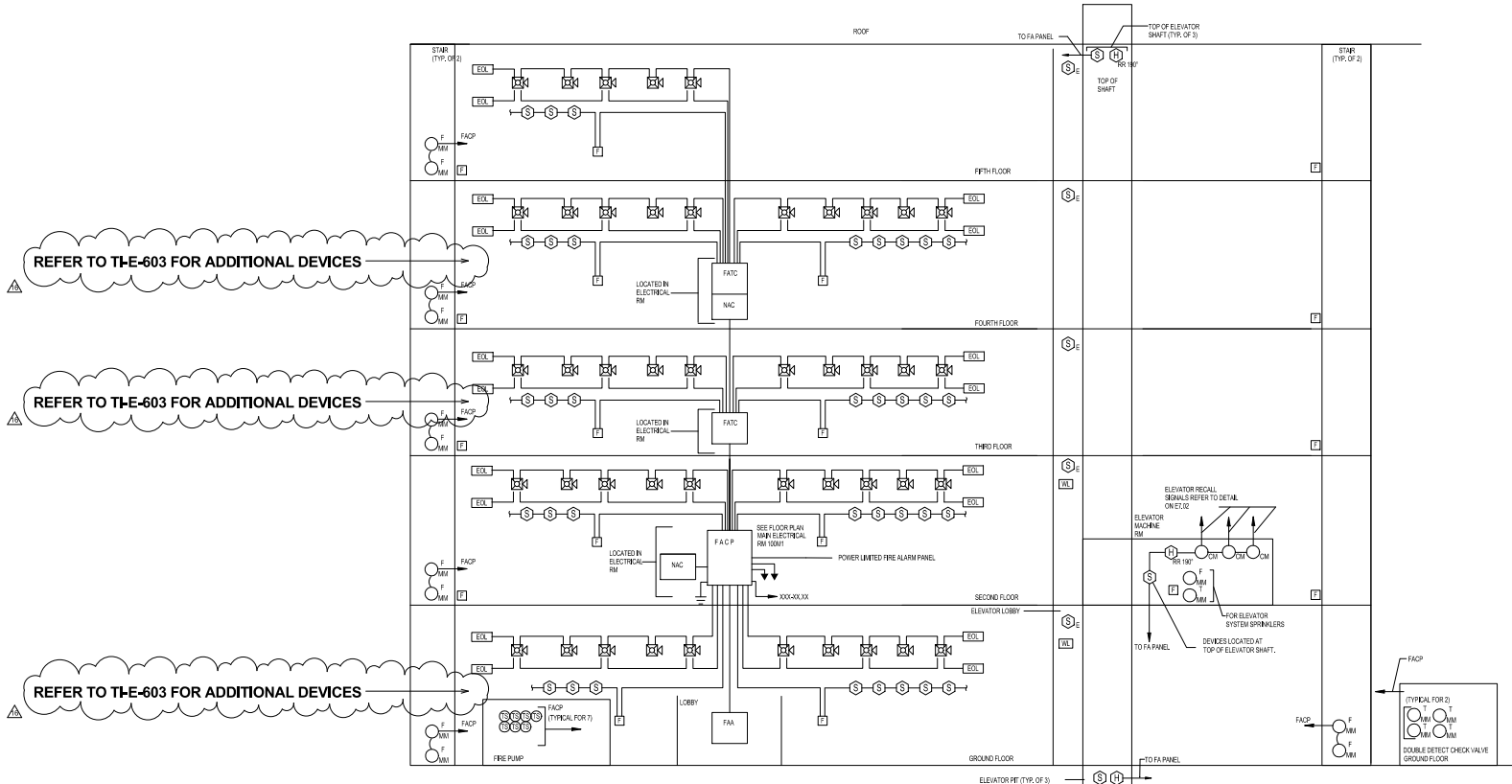
16	CS AND T3 FIELD COORDINATION	3/3/17
11	CITY OF MIAMI BEACH PERMIT COMMENTS	08/28/20
3	CITY OF MIAMI BEACH REVISIONS	11/20/14
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FIRE ALARM RISER
DIAGRAM



TYPICAL FIRE ALARM RISER DIAGRAM

GENERAL NOTES

- 1) THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AIA CODE COMPLIANT ADDRESSABLE MONITORING SYSTEM BASED ON THE ALARM SYSTEM TO BE WIRING, CONNECTED AND IN COMPLETE OPERATING CONDITION. THIS SHALL INCLUDE BUT NOT LIMITED TO DATA GATHERING PANEL, MANUAL PULL STATIONS, AUTOMATIC SMOKE DETECTORS, SPRINKLER, FLASHING STROBE LIGHTS, REMOTE CONTROL, MONITORING DEVICES, ALL WIRING CONNECTIONS TO DEVICES, OUTLET BOXES, JUNCTION BOXES, RACKS, RACKS, SUPPORTS AND ALL NECESSARY MATERIAL FOR A COMPLETE OPERATING SYSTEM. REFER TO FLOOR PLANS FOR EXACT LOCATIONS OF DEVICES.
- 2) REFER TO SPECIFICATION FOR ADDITIONAL DEVICES AND INSTALLATION REQUIREMENTS.
- 3) REFER TO FIRE PROTECTION FLOOR PLANS FOR EXACT LOCATIONS AND QUANTITIES OF ALL TAMPERS AND FLOW SWITCHES.
- 4) CONNECT TO REMAINING DEVICES ON RESPECTIVE FLOOR. REFER TO FLOOR PLANS FOR EXACT LOCATIONS AND QUANTITIES OF ALL DEVICES.
- 5) THE RISER DIAGRAM IS PRELIMINARY AND DOES NOT SHOW THE ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT LOCATIONS AND QUANTITIES OF ALL EQUIPMENT AND DEVICES.
- 6) ELECTRICAL CONTRACTOR SHALL NOT POSITION SMOKE DETECTORS WITHIN 14" OF SPRINKLER LOCATIONS.
- 7) ALL FIRE STOPPING SHALL BE PROVIDED BY THE G.C.
- 8) REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF DUCT SMOKE DETECTORS.
- 9) WIRE COUNTS SHOWN ARE FOR REFERENCE ONLY. ALL WIRE BIDS AND QUANTITIES SHALL BE PER APPROVED FIRE ALARM MANUFACTURER'S DRAWINGS (TYPICAL).
- 10) AT A MINIMUM SPEAKER AND STROBE CIRCUITING SHALL BE WIRING ON AUTOMATED AS A IS REQUIRED NO MORE THAN TEN (10) SPEAKERS OR STROBES SHALL BE INSTALLED ON ANY CIRCUIT.
- 11) ALL WIRING SHALL BE INSTALLED IN EXISTING ABOVE 8 FEET IN ELECTRICAL TELEPHONE MECHANICAL, LAN, ELEVATOR MACHINE ROOMS AND LOBBY (DOCKS) AND IN NEW 1/2" THREADED PIPE BELOW 8 FEET. WHEN EXPOSED OR INSTALLED ABOVE SHIP CHANNELS, WIRING SHALL BE SUPPORTED BY DESIGNATED BRIDGES EVERY 10 FEET OR ONE (1) FOOT OF EACH DEVICE SUPPORTED DIRECTLY TO THE BUILDING STRUCTURE.
- 12) PROVIDE FIRE ALARM RISER IN 2 HOUR RATED CABLE OR FIRE RATED ASSEMBLY.
- 13) PROVIDE MAIN FIRE ALARM PANEL WITH VOICE PAGING.
- 14) ALL FIRE ALARM DEVICES IN OPEN GARAGE AREAS SHALL BE WEATHERPROOF.
- 15) ALL FIRE ALARM WORK SHALL COMPLY WITH NFPA 72.
- 16) THE FIRE ALARM SYSTEM SHALL BE CLASSIFIED AS CENTRAL STATION.
- 17) THE FIRE ALARM SYSTEM SHALL BE CLASSIFIED AS CENTRAL STATION.
- 18) CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FIRE ALARM SYSTEM SPECIFICATION SHEETS AND ALL BATTERY CALCULATIONS, BIDDING AND BIDDING TO OPCA PROFESSIONAL ENGINEER FOR REVIEW PRIOR TO ACCORDING THE PERMIT. SHOP DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REFER TO SPECIFICATION SHEETS FOR ADDITIONAL REQUIREMENTS.
 - a. FLOOR PLANS SHOWING ALL DEVICES AND ASSOCIATED WIRING CONNECTIONS.
 - b. BATTERY CALCULATIONS.
 - c. BIDDING DRAWINGS.
 - d. DEVICE SPECIFICATIONS.
 - e. VOLTAGE DROP CALCULATIONS.

SEQUENCE OF OPERATION

CONTRACTOR SHALL COORDINATE THE PROPOSED SEQUENCE OF OPERATION WITH MECHANICAL DRAWINGS. SEQUENCE OF OPERATION REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. ALARM CONDITION:
 - a. ANY MANUAL PULL STATION AND OTHER DESIGNATED INITIATING DEVICE (AUTOMATIC INITIATING DEVICE, WATER FLOW SWITCH, ETC.) SHALL INITIATE AN ALARM CONDITION TO WATCH THE FOLLOWING SEQUENCE:
2. ALARM CONDITION OPERATION - ACTIVATION OF AN ALARM INITIATING DEVICE SHALL IMMEDIATELY CAUSE THE FOLLOWING:
 - a. SOUND AN AUDIBLE ALARM SIGNAL AND FLASH AND ALARMED AT THE SYSTEM CONTROL UNIT(S).
 - b. FIRE COMMAND CENTER AND SYSTEM ANNUNCIATORS.
 - c. DISPLAY THE ASSIGNED ENGLISH-LANGUAGE MESSAGE TEXT INCLUDING DEVICE ADDRESS, TYPE, LOCATION AND STATUS WITH THE FIRE AND DATE AT THE LOCAL CONTROL UNIT - FIRE COMMAND CENTER AND SYSTEM ANNUNCIATORS.
 - d. TRANSMIT THE EVENT TO THE REMOTE SUPERVISING STATION AND PUBLIC FIRE ALARM REPORTING SYSTEM.
 - e. INITIATE THE AUDIBLE AND VISUAL OCCUPANT NOTIFICATION SEQUENCES THROUGHOUT THE BUILDING.
 - f. RELEASE ALL MANUALLY-LOCKED DOORS ON THE FLOOR OF INCIDENCE.
 - g. RELEASE ALL THE FIRE DOORS IN THE FLOOR OF INCIDENCE.
 - h. ACTIVATE THE EXTERIOR READER.
 - i. INITIATE SHUTDOWN OR CONTROL OF ALL DAMPERS OR SMOKE SHUTTERS SERVING THE AREA OF ORIGIN.
 - j. INITIATE SHUTDOWN OF EACH EXHAUST FAN AND ASH SHOWN ON THE CONTRACT DOCUMENTS AS REQUIRED COORDINATE WITH MECHANICAL SEQUENCE OF OPERATION.
3. AIR HANDLING SYSTEM INTERFACE COORDINATE WITH MECHANICAL SEQUENCE OF OPERATION:
 - a. THE ACTIVATION OF OUTSTANDING SMOKE DETECTOR THAT IS ASSOCIATED DIRECTLY WITH AN AIR HANDLING UNIT OR FAN SHALL CAUSE THE UNIT TO SHUT DOWN IMMEDIATELY.
 - b. SHUTDOWN SHALL BE INITIATED BY SUPERVISED CONTROL SIGNAL TO THE ASSOCIATED EQUIPMENT.
4. FIRE SMOKE DAMPER INTERFACE:
 - a. PROVIDE SUPERVISED OUTPUT SIGNALS TO INITIATE CLOSURE OF EACH FIRE SMOKE OR SMOKE DAMPER SHOWN ON THE CONTRACT DOCUMENTS. SIGNALS SHALL UTILIZE A PROGRAMMABLE OUTPUT MODULE AND DEDICATED MULTIVOLTAGE POWER RELAY, LISTED AND RATED FOR THE APPLICATION.
 - b. PROVIDE ADDRESSABLE MONITOR MODULES AND STATUS FEEDBACK FROM EACH FIRE SMOKE OR SMOKE DAMPER TO SHOW ACTUAL DAMPER STATUS ON THE SYSTEM ANNUNCIATORS.
5. TROUBLE CONDITION:
 - a. ANY EVENTS DESIGNATED TO ACTIVATE A TROUBLE CONDITION SHALL CAUSE THE SPECIFIC EVENT TO DISPLAY AT THE MAIN FIRE ALARM CONTROL UNIT(S), FIRE COMMAND CENTER, REMOTE SYSTEM ANNUNCIATORS AND THE APPROVED SUPERVISING STATION.
6. SUPERVISORY CONDITION:
 - a. EVENTS TO ACTIVATE A SUPERVISORY CONDITION SHALL INCLUDE ACTIVATION OF ANY SPRINKLER SUPERVISORY CONTROL SWITCH, AND ANY OTHER DESIGNATED FIRE ALARM OR SUPERVISORY EVENT.
 - b. SUPERVISORY CONDITION OPERATION: ANY EVENTS DESIGNATED TO ACTIVATE A SUPERVISORY CONDITION SHALL CAUSE THE SPECIFIC EVENT TO DISPLAY AT THE MAIN FIRE ALARM CONTROL UNIT(S), FIRE COMMAND CENTER, REMOTE SYSTEM ANNUNCIATORS AND THE APPROVED SUPERVISING STATION.

ELEV. RECALL SEQUENCE OF OPERATION

THE SMOKE DETECTOR LOCATED IN FIRST FLOOR LOBBY (DESIGNATED ELEVATOR RECALL LOBBY) SHALL ACTIVATE THE FIRST ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTOR LOCATED IN THE REMAINING ELEVATOR LOBBIES SHALL ACTIVATE THE SECOND ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTOR LOCATED IN ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT SHALL ACTIVATE THE THIRD ELEVATOR CONTROL CIRCUIT. WHEN ACTIVATED, EACH ELEVATOR LOBBY, ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT SMOKE DETECTOR SHALL INITIATE A GENERAL ALARM CONDITION ON THE EXISTING BUILDING FIRE ALARM SYSTEM.

ELEV. SHUTDOWN

THE HEAT DETECTOR LOCATED IN THE ELEVATOR MACHINE ROOM SHALL ACTIVATE THE ASSOCIATED ELEVATOR SHAFT TRIP DISCONNECT MEANS TO SHUT DOWN THE POWER TO THE ELEVATOR. THE HEAT DETECTORS LOCATED IN ELEVATOR SHAFTS (TOP AND BOTTOM) SHALL ACTIVATE THE ASSOCIATED ELEVATOR SHAFT TRIP DISCONNECT MEANS TO SHUT DOWN THE POWER OF THE AFFECTED ELEVATOR. CONTROL CIRCUITS TO SHUT DOWN ELEVATOR POWER SHALL BE MONITORED FOR PRESENCE OF OPERATING VOLTAGE. THESE HEAT DETECTORS SHALL BE MONITORED FOR INTEGRITY BY THE FIRE ALARM CONTROL UNIT.

NOTE:

- 1- COORDINATE EXACT LOCATION OF TAMPER SWITCHES AND FLOW SWITCHES WITH FIRE SPRINKLER CONTRACTOR. REFER TO FIRE PROTECTION DRAWINGS FOR MORE DETAILS.
- 2- COORDINATE WITH MECHANICAL SEQUENCE OF OPERATION FOR LIFE SAFETY SYSTEMS.

18	PERMIT COMMENTS & FIELD COORDINATION	07/21/17
16	CS AND U FIELD COORDINATION	03/07/17
9	COORDINATION	Date 9
8	ISSUE	11/12/2015
7	VE CHANGES	06/14/2015
2	DATE	11/26/14
1	DATE	11/26/14

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PANEL
SCHEDULES

Branch Panel: 2M1											
Location: MAIN ELECTRICAL 205				Volts: 277/480V			A.I.C.: 42K				
Supply From: Main				Phases: 3			A.S.C.:				
Mounting: Surface				Wires: 4			Main Type: MLO				
Enclosure: Type 1				Neutral:			Mains Rating: 200 A				
				Ground Bus:							
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	CHW-F-2	30 A	3	3880... 1000...	3880... 1000...	3880... 1000...	3	20 A	VAV-2-S	2	
3										4	
5										6	
7										8	
9	VAV-2-4	20 A	3	333 VA 042 VA	333 VA 042 VA	333 VA 042 VA	3	20 A	GEF-1	10	
11										12	
13										14	
15										16	
17	Space	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	18
19	Space	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	19
21	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	20	
23	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	21	
25	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	22	
27	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	23	
29	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	24	
31	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	25	
33	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	26	
35	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	27	
37	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	28	
39	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	29	
41	Space	--	--	0 VA	0 VA	0 VA	0 VA	--	Space	30	
Total Load:				6155 VA	6155 VA	6155 VA					
Total Amps:				22 A	22 A	22 A					
Panel Totals											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Heating		6817 VA		100.00%		6817 VA		10466 VA			
Motor		11639 VA		125.00%		14540 VA		21376 VA			
								Total Conn. Load: 22 A			
								Total Est. Demand: 26 A			

Branch Panel: 2H1											
Location: MAIN ELECTRICAL 205				Volts: 277/480V				A.I.C.: 42K			
Supply From:				Phases: 3				A.S.C.:			
Mounting: Surface				Wires: 4				Main Type: MLO			
Enclosure: Type 1				Neutral:				Mains Rating: 200 A			
				Ground Bus:							
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	PANEL-2L1 VIA XFMR	50 A	3	7916... 415 VA	7758... 1306...	7916... 415 VA	3	20 A	Lighting MAIN ELECTRICAL 205	2	
2								1	20 A	LIGHTS	3
3								1	20 A	LIGHTS	4
4	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	Lighting Outside Walkway	5
5	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	6
6	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	7
7	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	8
8	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	9
9	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	10
10	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	11
11	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	12
12	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	13
13	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	14
14	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	15
15	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	16
16	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	17
17	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	18
18	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	19
19	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	20
20	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	21
21	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	22
22	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	23
23	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	24
24	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	25
25	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	26
26	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	27
27	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	28
28	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	29
29	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	30
30	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	31
31	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	32
32	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	33
33	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	34
34	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	35
35	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	36
36	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	37
37	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	38
38	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	39
39	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	40
40	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	41
41	Space	20 A	1	0 VA	500 VA	0 VA	0 VA	1	20 A	EXTERIOR SIGNAGE	42
Total Load:				7931 VA	10564 VA	8650 VA					
Total Amps:				29 A	38 A	29 A					
Panel Totals											
Load Classification		Connected Load		Demand Factor		Estimated Demand					
Cooling		1872 VA		100.00%		1872 VA					
Receptacle		4200 VA		80.00%		3360 VA		Total Conn. Load: 25587 VA			
Lighting		2100 VA		125.00%		2637 VA		Total Est. Demand: 27467 VA			
Motor		3304 VA		121.72%		6456 VA		Total Conn.: 32 A			
Other		440 VA		100.00%		440 VA		Total Est. Demand: 33 A			
Power		6482 VA		100.00%		6482 VA					
Receptacle		4160 VA		100.00%		4160 VA					

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PANEL DIRECTORY		
PANEL-3H1	PANEL-3L1	PANEL-3M
PANEL-4H1	PANEL-4M1	PANEL-4L1

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ELECTRICAL
DETAILS

Sheet

E-601



1 ELECTRICAL DETAILS-B
1:1

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Title		

ELECTRICAL DETAILS

Sheet

E-602



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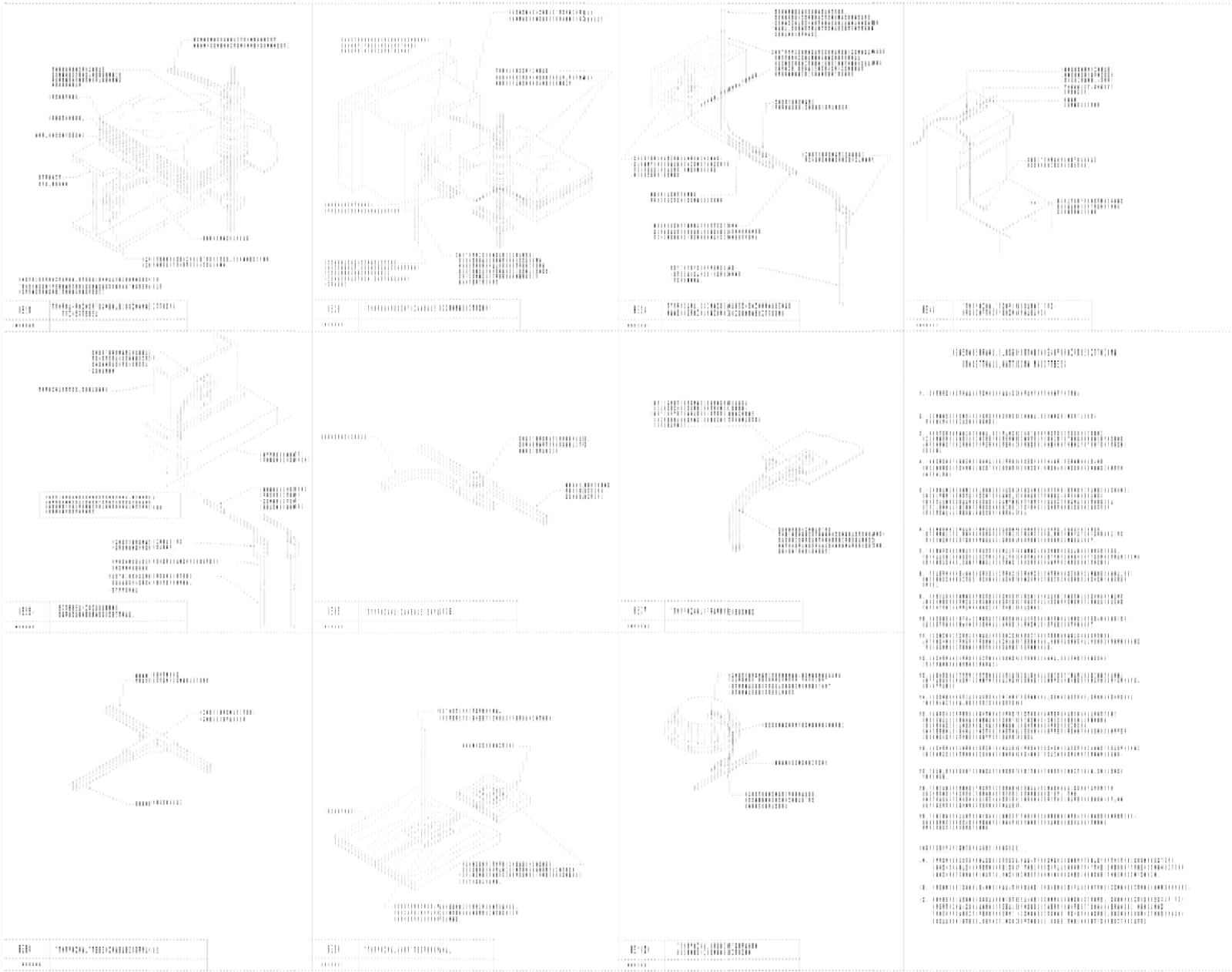
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Lightning
Protection
Details

Sheet

E-603



1 LIGHTNING PROTECTION DETAILS
1-1

PERMIT
SET

Revisions

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	[MANUFAC]	Description	Lum. Lumens	LLF	Lum. Watts
	5	A1	SINGLE	Lithonia Lighting	DSXPG LED 10C 1000 40K T5E MVOLT	3227	0.860	37
	3	B3	SINGLE	BEGA	33514 19 545 (INITIAL)	202	1.000	6
	8	D	BACK-BACK	ALIGHT	D3-B-LH-35-U-S-Q	2685	0.860	38
	27	F	SINGLE	FOCAL POINT LIGHTING - CHICAGO, IL	FSM2L FL 250LF 35K 1C UNV LD1 XFF WH X'	981	0.860	16
	26	FE	SINGLE	FOCAL POINT LIGHTING - CHICAGO, IL	FSM2L FL 250LF 35K 1C UNV LD1 XFF WH X' (EM CIRCUIT)	981	0.860	16
	25	L	SINGLE	Lithonia Lighting	Z 2 28T5 MVOLT GEB10PS WG246	4780	0.855	67

Calculation Summary									
Label	CalcType	Units	Meter Type	Avg	Max	Min	Avg/Min	Max/Min	
Garage 1st_Floor	Illuminance	Fc	Horizontal	5.26	12.5	1.3	4.05	9.62	
Lobby and Corridor_Floor	Illuminance	Fc	Normal	29.07	50.7	8.1	3.59	6.26	
Spill at Setback	Illuminance	Fc	Horizontal	0.02	0.2	0.0	N.A.	N.A.	
Spill on Alley	Illuminance	Fc	Horizontal	0.02	0.1	0.0	N.A.	N.A.	
Spill on Residential Line	Illuminance	Fc	Horizontal	0.00	0.0	0.0	N.A.	N.A.	
Tenant_Space_Floor	Illuminance	Fc	Normal	4.55	11.5	1.0	4.55	11.50	

11	CITY OF MIAMI BEACH	09/28/20
7	PERMIT COMMENTS	09/14/20
7	VE CHANGES	15
NO	ISSUE	DATE

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LEVEL 1 NORMAL
PHOTOMETRIC
PLAN

Sheet

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PERMIT
SET

Revisions

Luminaire Schedule

Symbol	Qty	Label	Arrangement	[MANUFAC]	Description	Lum. Lumens	LLF	Lum. Watts
	5	A1	SINGLE	Lithonia Lighting	DSXPG LED 10C 1000 40K T5E MVOLT	3227	0.860	37
	3	B3	SINGLE	BEGA	33514 19 545 (INITIAL)	202	1.000	6
	8	D	BACK-BACK	ALIGHT	D3-8-LH-35-U-S-Q	2685	0.860	38
	26	FE	SINGLE	FOCAL POINT LIGHTING - CHICAGO, IL	FSM2L FL 250LF 35K 1C UNV LD1 XFF WH X' (EM CIRCUIT)	981	0.860	16
	25	L	SINGLE	Lithonia Lighting	Z 2 28T5 MVOLT GEB10PS WZG46	4780	0.855	67

Calculation Summary

Label	CalcType	Units	Meter Type	Avg	Max	Min	Avg/Min	Max/Min
Garage 1st_Floor	Illuminance	Fc	Horizontal	5.26	12.5	1.3	4.05	9.62
Lobby and Corridor_Floor	Illuminance	Fc	Normal	13.09	21.8	4.9	2.67	4.45
South Exit	Illuminance	Fc	Horizontal	2.27	4.2	0.6	3.78	7.00
Spill at Setback	Illuminance	Fc	Horizontal	0.02	0.2	0.0	N.A.	N.A.
Spill on Alley	Illuminance	Fc	Horizontal	0.02	0.1	0.0	N.A.	N.A.
Spill on Residential Line	Illuminance	Fc	Horizontal	0.00	0.0	0.0	N.A.	N.A.
Stair A Exit	Illuminance	Fc	Horizontal	1.10	2.5	0.2	5.50	12.50
Stair C Exit	Illuminance	Fc	Horizontal	3.10	4.2	2.2	1.41	1.91
Stair D Exit	Illuminance	Fc	Horizontal	2.05	3.1	0.2	10.25	15.50
Tenant_Space_Floor	Illuminance	Fc	Normal	4.56	11.5	1.0	4.56	11.50

11	CITY OF MIAMI BEACH	08/28/20
7	PERMIT COMMENTS	08/14/20
3	CITY OF MIAMI BEACH	11/28/14
NO	ISSUE	DATE

Sheet Information

Date: Issued: September 4, 2014
Job Number: 810409.000
Drawn: JV
Checked: CEJ
Approved: [Signature]

LEVEL 1
EMERGENCY
PHOTOMETRIC
PLAN

Sheet

E-701B

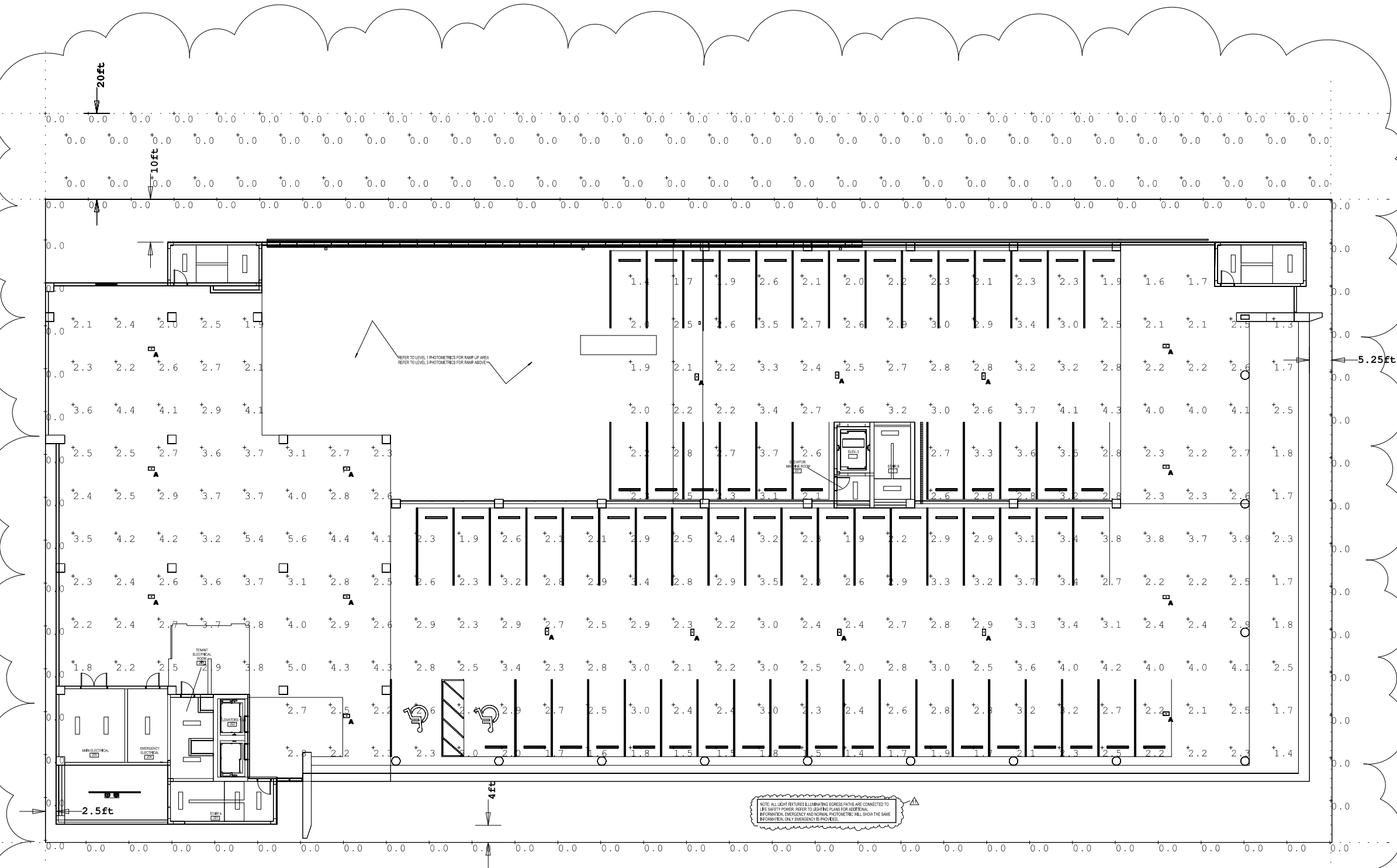
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PERMIT
SET

Revisions

11	CITY OF MIAMI BEACH	09/28/20
7	PERMIT COMMENTS	09/14/20
7	VE CHANGES	15
NO	ISSUE	DATE
Sheet Information		
Date	Issued: September 4, 2014	
Job Number	810469.000	
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Checked	CEJ	
Approved	Approver	

LEVEL 2
EMERGENCY
PHOTOMETRIC
PLAN



Luminaire Schedule								
Symbol	Qty	Label	Arrangement	[MANUFAC]	Description	Lum. Lumens	LLF	Lum. Watts
	17	A	SINGLE	Lithonia Lighting	DSXPG LED 20C 1000 40K T5R MVOLT (EM CIRCUIT)	6049	0.860	74

Calculation Summary									
Label	CalcType	Units	Meter Type	Avg	Max	Min	Avg/Min	Max/Min	
Garage 2nd_Floor	Illuminance	Fc	Normal	2.73	5.6	1.3	2.10	4.31	
Spill at Setback	Illuminance	Fc	Horizontal	0.00	0.0	0.0	N.A.	N.A.	
Spill on Alley	Illuminance	Fc	Horizontal	0.00	0.0	0.0	N.A.	N.A.	
Spill on Residential Line	Illuminance	Fc	Horizontal	0.00	0.0	0.0	N.A.	N.A.	

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**PERMIT
SET**
September 4, 2014

Revisions

NO	ISSUE	DATE
Sheet Information		
Date	July 3rd, 2014	
Job Number	810408,000	
Drawn	Author	
Checked	Checker	
Approved	Approver	
Title		

LEVEL 2 NORMAL
PHOTOMETRIC
PLAN

Sheet

E-702A

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[illegible]

Codebook	CodeType	Unit	Number	Mean	Median	Mode	Stdev	Skewness	Kurtosis
Language_Spanish	Language	Yes	1000000	0.000	0.000	0.000	0.000	0.000	0.000



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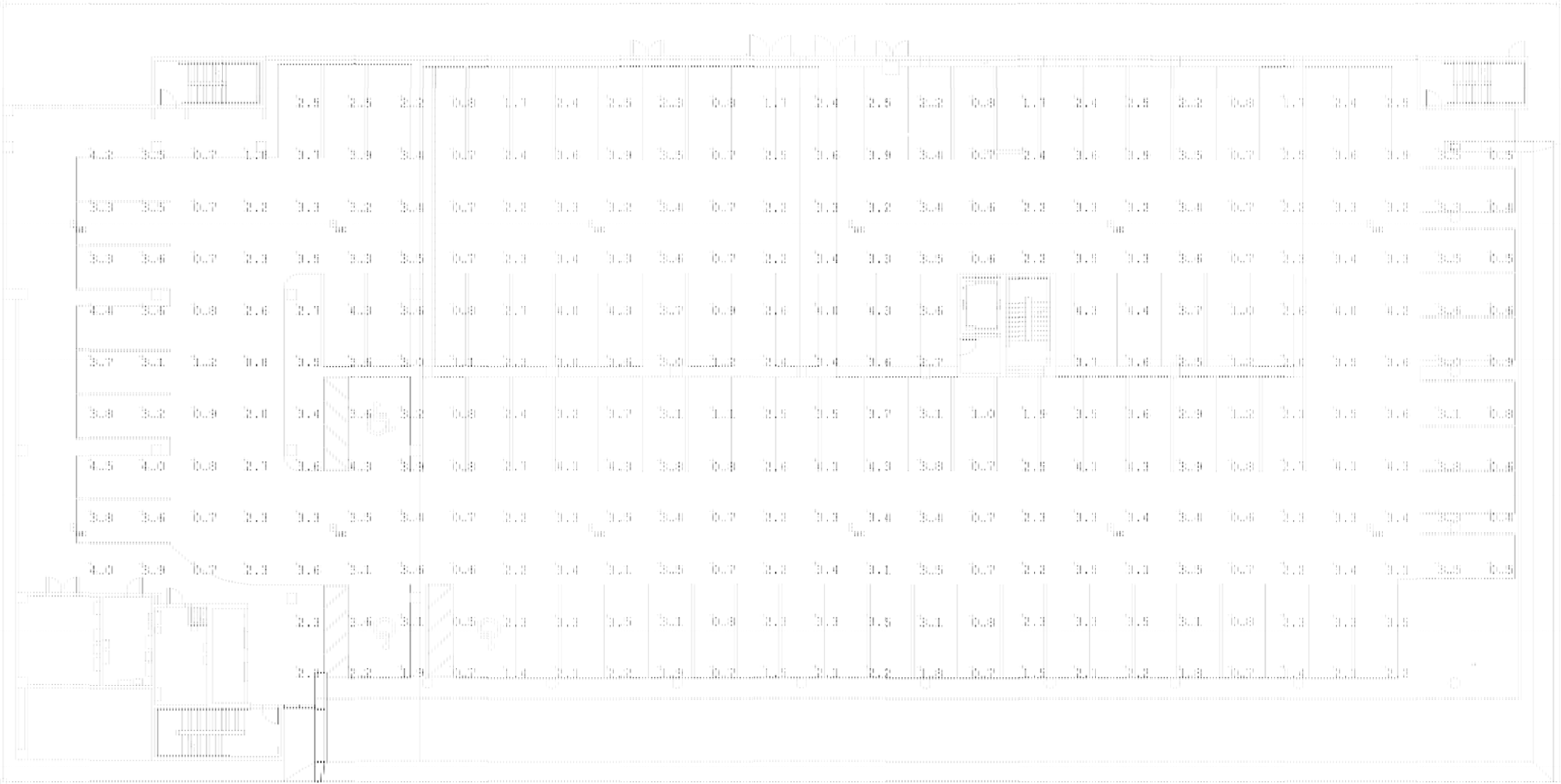
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SET
September 4, 2014

Revisions



Construction Information					
Approved:	Drawn:	Checked:	Design/Engineer:	Professional:	Description:
	32	440	PERKINS	Matthew M. Legg	DESIGN: 100 100 1000 400 100 1000 100 1000 1000 1000

Construction Information									
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NO.	ISSUE	DATE
Sheet Information		
Date:	July 3rd, 2014	
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Drawn:	Author	
Checked:	Checker	
Approved:	Approver	

TITLE
LEVEL 2
EMERGENCY
PHOTOMETRIC
PLAN

Sheet
E-702B

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Revisions

7	VE CHANGES	8514715
NO	ISSUE	DATE
Sheet Information		
Date	09/02/14	
Job Number	810405.000	
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Checked	Checker	
Approved	Approver	

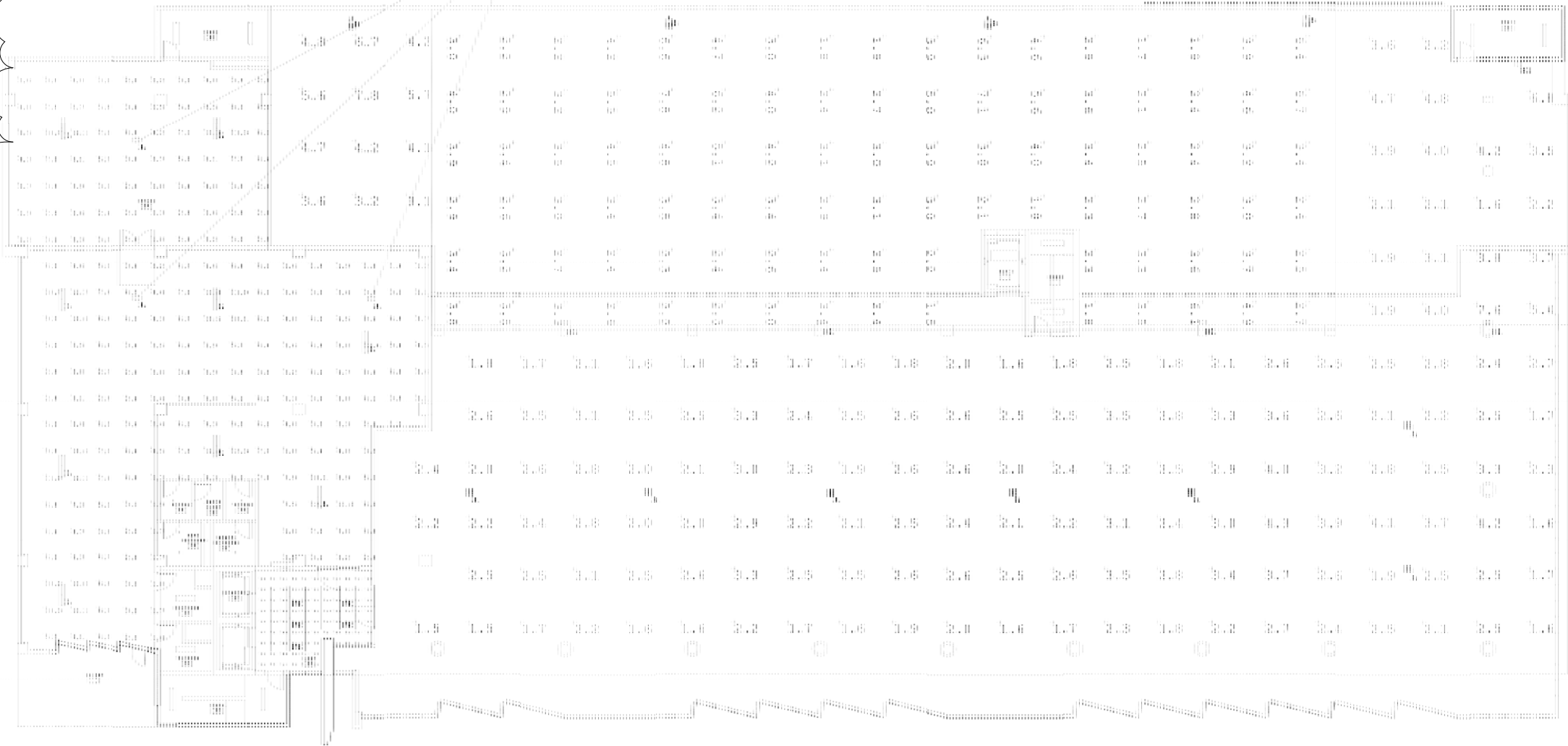
LEVEL 3
EMERGENCY
PHOTOMETRIC
PLAN

Sheet

E-703

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LOCATED ON 2ND FLOOR



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