

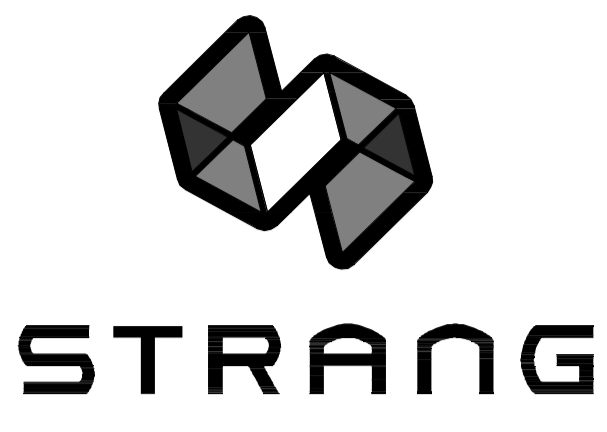
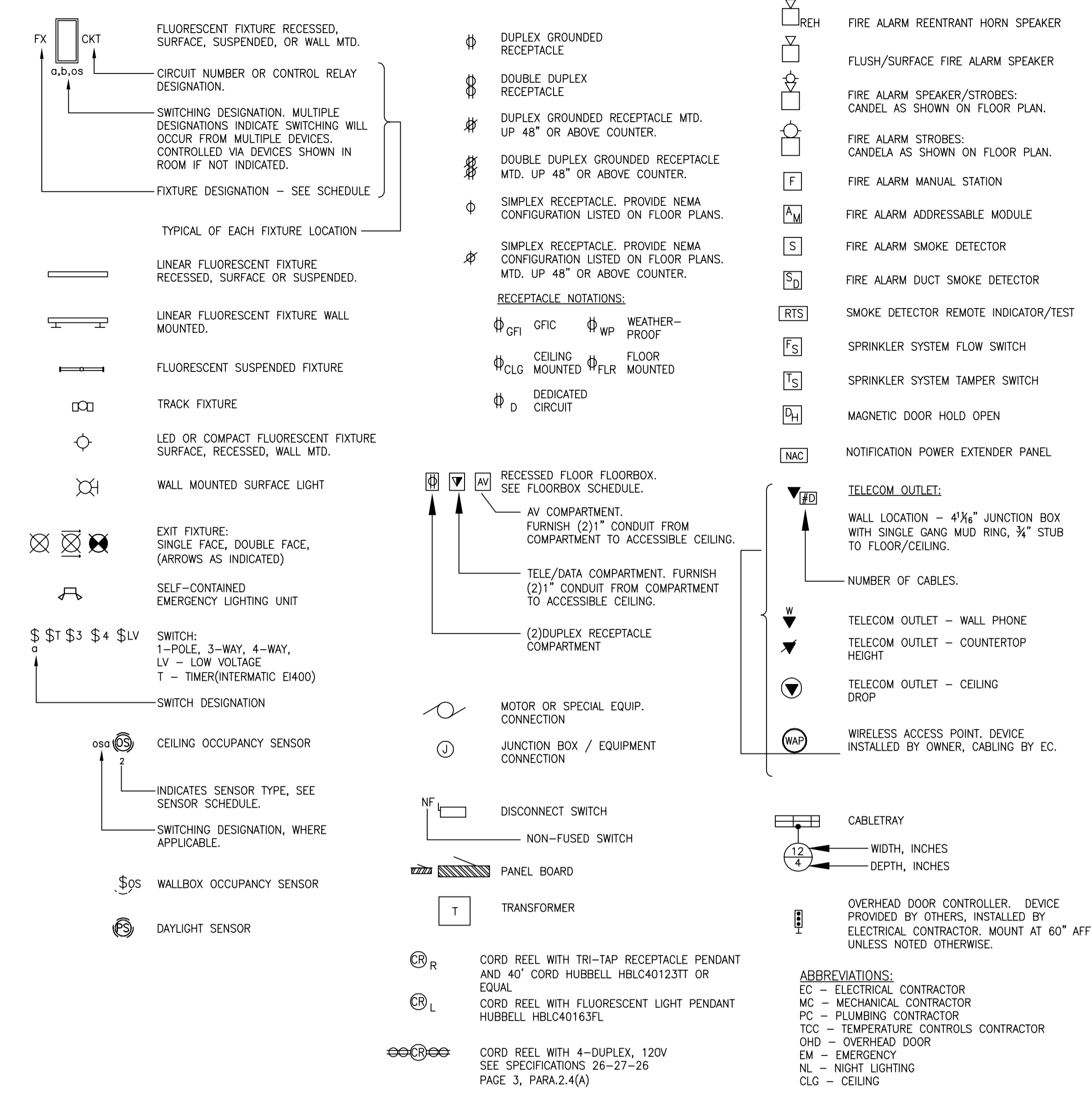
LIGHT FIXTURE SCHEDULE									
1. MANUFACTURERS SHOWN ARE BASIS OF DESIGN. ALTERNATE PRODUCTS SIMILAR IN APPEARANCE AND PERFORMANCE ARE PERMITTED WITH PRIOR APPROVAL FROM A/E.									
EM - EMERGENCY; CONNECT TO EMERGENCY CIRCUIT INDICATED.									
2. SEE SPECIFICATION SECTION 26 51 00 FOR APPROVED BALLAST. COORDINATE WITH MANUFACTURER AS REQUIRED TO MEET SPECIFICATION.									
MOUNTING (MTG)		LAMP TYPE		LENS/LOUVER		BALLAST TYPE		BALLAST FACTOR	
RE - RECESSED	FL - FLUORESCENT	A - ACRYLIC	EM - EMERGENCY BATTERY	LBF - LOW, BF < 0.85				NBF - NORMAL, BF 0.85-1.0	
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE	DM - DIMMING BALLAST	NBF - NORMAL, BF 0.85-1.0				HBF - HIGH, BF > 1.01	
CL - CEILING SURFACE	IN - INCANDESCENT	C - CLEAR ALUM	SDM - STEP DIMMING BALLAST						
W - WALL	LED - LIGHT EMITTING DIODE	D - CLEAR ALUM	ADM - DIGITAL ADDRESSABLE BALLAST						
UC - UNDER CABINET	HPS - HIGH PRESSURE SODIUM	L - LOW IRIDESCENT SEMI-SPECULAR	IS - INSTANT START						
CV - COVE	HLC - HALOGEN	ALUMINUM	PS - PROGRAMMED START						
PL - POLE	MH - METAL HALIDE	N - NONE	RS - RAPID START						
S - SURFACE	PSMH - PULSE START METAL HALIDE	S - SPECULAR CLEAR	SCWA - SUPER CONSTANT WATTAGE						
U - UNIVERSAL	CMH - CERAMIC METAL HALIDE	O - OTHER (SEE DESCRIPTION)	eHD - ELECTRONIC HID						
O - OTHER (SEE DESCRIPTION)	O - OTHER (SEE DESCRIPTION)		LED - LED ELECTRONIC DRIVER						
FIXTURE NUMBER	DESCRIPTION	MTG	LAMPS	VOLTAGE	LENS/LOUVER	APPROVED MANUFACTURERS (LIST IS NOT EXCLUSIVE, MANUFACTURERS LISTED ARE BASIS FOR DESIGN.)	BALLAST	NOTES	
D1	6" ROUND DOWNLIGHT, MEDIUM BEAM	RE	LED 1000LMN 4100K	MVOLT		GOHAM EVO 41 10 6AR MD LD OR APPROVED EQUAL	PS NBF		
D2	6" ROUND DOWNLIGHT, WIDE BEAM	RE	LED 1000LMN 4100K	MVOLT		GOHAM EVO 41 10 6AR WD LD OR APPROVED EQUAL	PS NBF		
D3	6" ROUND DOWNLIGHT, NARROW BEAM	RE	LED 1000LMN 4100K	MVOLT		GOHAM EVO 41 14 6AR ND LD OR APPROVED EQUAL	PS NBF		
EX1	SINGLE FACE EXIT FIXTURE	W	LED			LITHONIA - LVSXWRMCW		MOUNT EXIT FIXTURES ON WALL ABOVE DOOR FRAME AND BELOW LOUVERS IN PAVILION	
EX2	EXIT FIXTURE	W	LED			LITHONIA - EDG W 1 R			
EX3	DOUBLE FACE EXIT FIXTURE	W	LED			LITHONIA - LVSXWRMCW			
F1	EXISTING 1X4 FIXTURE	S	FL (2)F32W8			EXISTING		REMOVED FROM EXISTING BUILDINGS AND REUSED AS INDICATED. SEE SPEC 26-00-00 PAGE 1, PARA 1.4	
F2	4-LAMP HIGH PRESSURE HOSE-DOWN IP65, IP66 AND IP67 RATED.	S	FL (4)F54TSHO 4100K	MVOLT		LITHONIA - FHP 454L SD WITH (2) 2 LAMP BALLASTS	PS NBF		
F3	FLUORESCENT DIRECT SUSPENDED FIXTURE	S	FL (2)F54TSHO 4100K	MVOLT		AXIS BEAM 4 - BBD S NO 4 NL4 TSHO 2 0 OR APPROVED EQUAL	PS NBF	BOTTOM OF FIXTURE MOUNTED FLUSH WITH BOTTOM OF ACOUSTIC PANELS	
F4	2X4 FLUORESCENT LENSED TROFFER	RE	FL (2)F32W8 4100K	277V		LITHONIA 2SP8 G 3 32 A12125 277	PS NBF	INSTALL LENS PRISM UP FOR EASE OF CLEANING	
F5	2X4 FLUORESCENT DIRECT/INDIRECT TROFFER	RE	FL (2)F32W8 4100K	MVOLT		LEDALITE SHINE SERIES 3324-01-SMS-7232-S-1 OR APPROVED EQUAL	PS NBF		
F6	1X4 FLUORESCENT LENSED FIXTURE	RE	FL (1)F32W8 4100K	MVOLT		LITHONIA GTS 1 32 FW A12 MVOLT OR APPROVED EQUAL	PS NBF		
F7	LINEAR FLUORESCENT WRAPAROUND	S	FL (2) F32W8 4100K	277V	A	LITHONIA LB METALUX WN DAYBRITE	PS 1.15		
F8	LINEAR FLUORESCENT STRIP WITH WIREGUARD	SP/S	FL (2) F32W8 4100K	277V	A	LITHONIA C METALUX DAYBRITE	IS .88	CHAIN HANG AT 12" AFF UNLESS OTHERWISE NOTED.	
F9	LINEAR FLUORESCENT HIGH BAY, WIDE DISTRIBUTION	SP	FL (6) F54TSHO 4100K	277V	A	LITHONIA IBZ METALUX HBL DAYBRITE	PS 1.15	CHAIN/CABLE HANG AT 18" AFF UNLESS OTHERWISE NOTED. WHERE MULTI-LEVEL SWITCHING IS SHOWN, SWITCH OUTER (2) LAMPS SEPARATELY FROM INNER LAMPS. WHERE 'NL' IS SHOWN OUTER (2) LAMPS SHALL BE UNSWITCHED AND INNER (4) LAMPS SWITCHED.	
F10	VAPORITE INDUSTRIAL	SP/S	FL (2) F54TSHO 4100K	277V	A	LITHONIA VRI METALUX V12 DAYBRITE	PS 1.01	CHAIN HANG AT 15" AFF UNLESS OTHERWISE NOTED.	
F11	OUTDOOR LED WALLPACK, FULL CUTOFF WITH INTEGRAL PHOTOCCELL.	WL	LED 880 LUMEN OUTPUT 4100K	277V	A	DAYBRITE WRN LUMARK XT0UR1A LITHONIA	LED		
F12	1X4 (2) LAMP FLUORESCENT ROUGH SERVICE FIXTURE OF STARTING ELECTRONIC BALLAST	S	FL (2)32W 18, 4100K	120V		LITHONIA - VDS 2 32 MVOLT	PS NBF		
F13	LED STRIPLIGHT.	W	LED 2100 LUMEN 4100K	277V	A	LITHONIA MNSL MV M6 OR APPROVED EQUAL	LED 1.01	MOUNTED IN WOOD SCRIM AS SHOWN ON ARCHITECTURAL PLANS, ELEVATIONS AND SECTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL FIXTURE COUNT AND FOR MOUNTING DETAILS AND REQUIREMENTS	
F14	2' WALL MOUNTED WRAPAROUND	W	FL (1)17W8 4100K	277V		LITHONIA - VWC 1 17 277	PS NBF		
F15	LENSED LED LIGHT CHANNEL, IP66 RATED, FROSTED DIFFUSER	W	LED 60 LMW/FT 2700K	277V		TRAXON TLUM OR APPROVED EQUAL	LED	PROVIDE ALL FIXTURE LENGTHS, CONNECTORS, DRIVERS AND MOUNTING ACCESSORIES TO PROVIDE CONTINUOUS AROUND (BOTTOM AND SIDES) OF ALL WOOD ELEMENTS DENOTED "WD-2" ON ARCHITECTURAL DRAWINGS. LAYOUT SHOWN ON E DRAWINGS IS FOR REFERENCE ONLY. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS. CONTRACTOR SHALL SUBMIT DIMENSIONED SHOP DRAWINGS SHOWING ELEVATIONS AND SECTIONS OF INSTALLED FIXTURES IN EACH INSTANCE OF WD-2.	
P1	16" DIAMETER INDIRECT PENDANT		(48) 14W T5	277V		VISA CP5022	FL 0.7-0.8BF		
P2	MINI CYLINDER SUSPENDED DOWNLIGHT - ALUMINUM HOUSING, ANCHOR CABLE MOUNTED, NATURAL ALUMINUM FINISH, CAP WITH 1" RECESSED LENS.	SP	LED 250 LUMEN 24" BEAM 3000K	277V		B-K RM LED OR APPROVED EQUAL	LED	SUSPEND SO FIXTURE IS AT 12" AFF. PROVIDE ALL REQUIRED ACCESSORIES AND TRANSFORMERS FOR A COMPLETE SYSTEM.	
P2B	SAME AS P2 WITH 18" BEAM		250 LUMEN 18" BEAM 3000K	277V		B-K RM LED OR APPROVED EQUAL			
P2C	SAME AS P2 WITH 36" BEAM		250 LUMEN 36" BEAM 3000K	277V		B-K RM LED OR APPROVED EQUAL			
T1	TWO HEAD, CANOPY MOUNTED, AIMABLE TRACK LUMINAIRE NATURAL ALUMINUM FINISH.		1600 LUMEN/HEAD 50" BEAM 3000K	277V		INTENSE MBS OR APPROVED EQUAL			
T1B	SAME AS T1 WITH 24" BEAM SPREAD		1600 LUMEN/HEAD 24" BEAM 3000K	277V		INTENSE MBS OR APPROVED EQUAL			
T1C	SAME AS T1 WITH ONE HEAD AND 16" BEAM SPREAD		1600 LUMEN 16" BEAM 3000K	277V		INTENSE MBS OR APPROVED EQUAL			

- UL Listed for 40 degree C Ambient
- Suitable for Wet Location but more importantly IP65, IP66 and IP67 rated.
- Certified to meet NSF Splash Zone 2
- NEMA 4x, 1200 PSI hose down.
- One-Piece 5VA rated Fiberglass housing with continuous closed cell gasket motor
- Tool Less ballast and wiring access.
- Injection Moulded, Impact Resistant clear acrylic diffuser with frosted ends and side lined prism. (helps control Brightness/Glare)
- The diffuser must be securely tethered to the fixture for ease of maintenance.
- There must be 12 Stainless Steel Diffuser Latches.
- The reflectors are segmented optics with 95% reflectivity.
- 11.5 1500 Starting Temperature is -20 F.
- Lamp sockets are rotary locking for ease of maintenance and minimizing lamps loosening from any building vibration.

MOUNTED IN WOOD SCRIM AS SHOWN ON ARCHITECTURAL PLANS, ELEVATIONS AND SECTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL FIXTURE COUNT AND FOR MOUNTING DETAILS AND REQUIREMENTS

PROVIDE ALL FIXTURE LENGTHS, CONNECTORS, DRIVERS AND MOUNTING ACCESSORIES TO PROVIDE CONTINUOUS AROUND (BOTTOM AND SIDES) OF ALL WOOD ELEMENTS DENOTED "WD-2" ON ARCHITECTURAL DRAWINGS. LAYOUT SHOWN ON E DRAWINGS IS FOR REFERENCE ONLY. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS. CONTRACTOR SHALL SUBMIT DIMENSIONED SHOP DRAWINGS SHOWING ELEVATIONS AND SECTIONS OF INSTALLED FIXTURES IN EACH INSTANCE OF WD-2.

### ELECTRICAL SYMBOL LEGEND



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

### OCCUPANCY SENSOR SCHEDULE

SENSOR TAG	DESCRIPTION	APPROVED MANUFACTURERS (LIST IS NOT EXCLUSIVE, MANUFACTURERS LISTED ARE BASIS FOR DESIGN.)	NOTES
NONE	CEILING MOUNTED DUAL TECHNOLOGY. 360° COVERAGE FURNISH WITH REQUIRED POWER PACK(S)	SENSOR SWITCH CM-PDT-9-R ALTERNATES MUST BE SIMILAR IN PERFORMANCE & APPEARANCE	ALL SENSORS ARE THIS TYPE UNLESS TAGGED OTHERWISE. ADD EXTRA CONTACTS FOR HVAC EXHAUST FAN CONTROLS
TYPE 1	WALL MOUNTED DUAL TECHNOLOGY. FURNISH WITH REQUIRED POWER PACK(S)	SENSOR SWITCH WSD PDT 2P NLD WH ALTERNATES MUST BE SIMILAR IN PERFORMANCE & APPEARANCE	

GENERAL NOTES:  
1. SEE SHEET E401 FOR ADDITIONAL OCCUPANCY SENSOR DETAILS.

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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
ELECTRICAL  
SYMBOLS/ABBREV.  
FIXTURE SCHEDULE

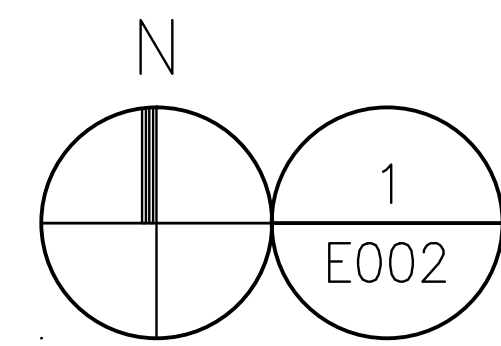
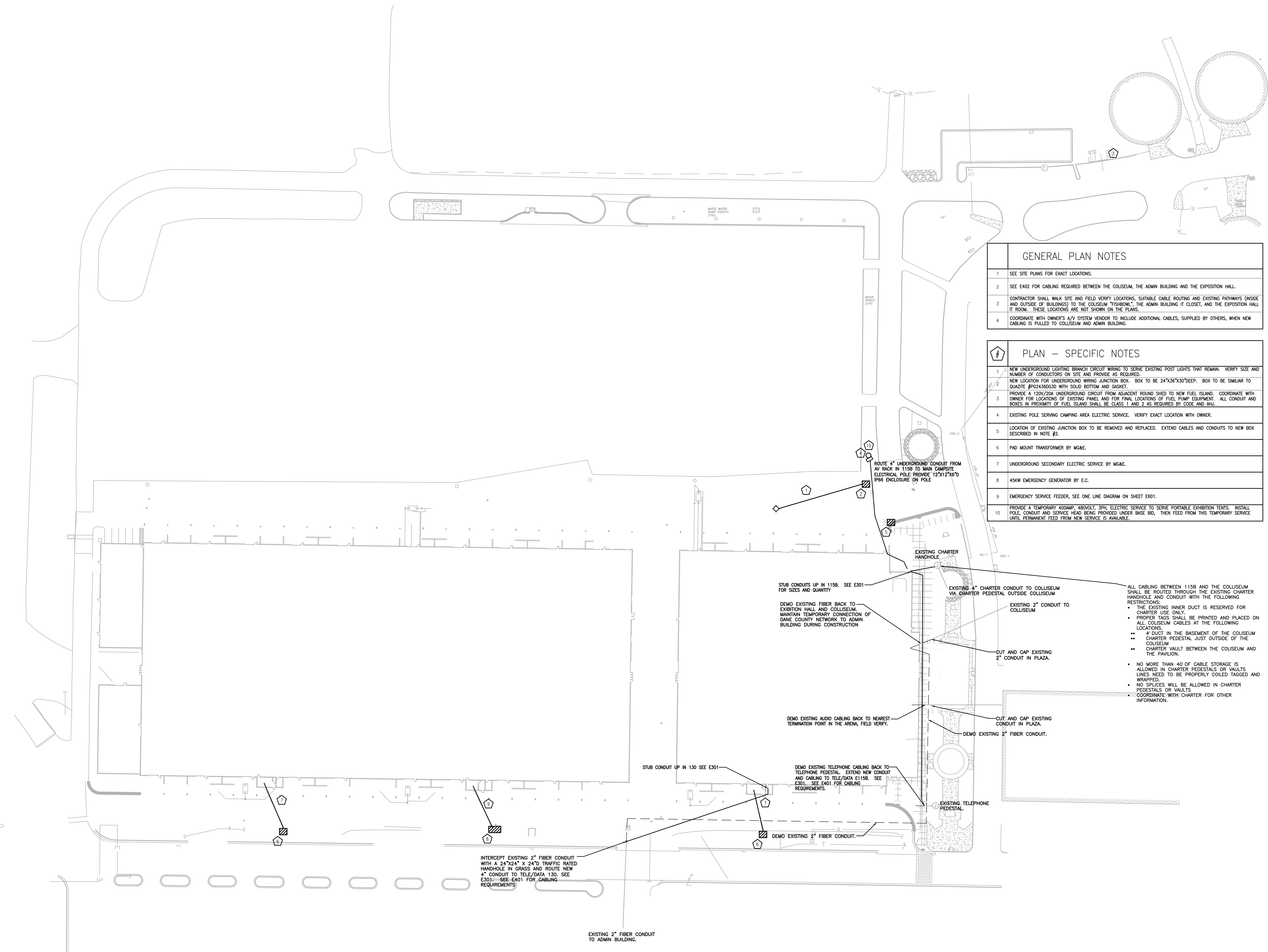
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E001

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GENERAL PLAN NOTES	
1	SEE SITE PLANS FOR EXACT LOCATIONS.
2	SEE E402 FOR CABLING REQUIRED BETWEEN THE COLISEUM, THE ADMIN BUILDING AND THE EXPOSITION HALL.
3	CONTRACTOR SHALL WALK SITE AND FIELD VERIFY LOCATIONS, SUITABLE CABLE ROUTING AND EXISTING PATHWAYS (INSIDE AND OUTSIDE OF BUILDINGS) TO THE COLISEUM "FISHBOWL", THE ADMIN BUILDING IT CLOSET, AND THE EXPOSITION HALL IT ROOM. THESE LOCATIONS ARE NOT SHOWN ON THE PLANS.
4	COORDINATE WITH OWNER'S AV SYSTEM VENDOR TO INCLUDE ADDITIONAL CABLES, SUPPLIED BY OTHERS, WHEN NEW CABLING IS RULLED TO COLISEUM AND ADMIN BUILDING.

#	PLAN - SPECIFIC NOTES
1	NEW UNDERGROUND LIGHTING BRANCH CIRCUIT WIRING TO SERVE EXISTING POST LIGHTS THAT REMAIN. VERIFY SIZE AND NUMBER OF CONDUCTORS ON SITE AND PROVIDE AS REQUIRED.
2	NEW LOCATION FOR UNDERGROUND WIRING JUNCTION BOX. BOX TO BE 24"x36"x30" DEEP. BOX TO BE SIMILAR TO QUANTE #P024380030 WITH SOLID BOTTOM AND GASKET.
3	PROVIDE A 120V/20A UNDERGROUND CIRCUIT FROM ADJACENT ROUND SHED TO NEW FUEL ISLAND. COORDINATE WITH OWNER FOR LOCATIONS OF EXISTING PANEL AND FOR FINAL LOCATIONS OF FUEL PUMP EQUIPMENT. ALL CONDUIT AND BOXES IN PROXIMITY OF FUEL ISLAND SHALL BE CLASS 1 AND 2 AS REQUIRED BY CODE AND AHJ.
4	EXISTING POLE SERVING CAMPING AREA ELECTRIC SERVICE. VERIFY EXACT LOCATION WITH OWNER.
5	LOCATION OF EXISTING JUNCTION BOX TO BE REMOVED AND REPLACED. EXTEND CABLES AND CONDUITS TO NEW BOX DESCRIBED IN NOTE #2.
6	PAD MOUNT TRANSFORMER BY M&E.
7	UNDERGROUND SECONDARY ELECTRIC SERVICE BY M&E.
8	45KW EMERGENCY GENERATOR BY E.C.
9	EMERGENCY SERVICE FEEDER, SEE ONE LINE DIAGRAM ON SHEET E601.
10	PROVIDE A TEMPORARY 400AMP, 480VOLT, 3PH, ELECTRIC SERVICE TO SERVE PORTABLE EXHIBITION TENTS. INSTALL POLE, CONDUIT AND SERVICE HEAD BEING PROVIDED UNDER BASE BID, THEN FEED FROM THIS TEMPORARY SERVICE UNTIL PERMANENT FEED FROM NEW SERVICE IS AVAILABLE.

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# ELECTRICAL OVERALL SITE PLAN

SCALE: 1" = 50'-0"

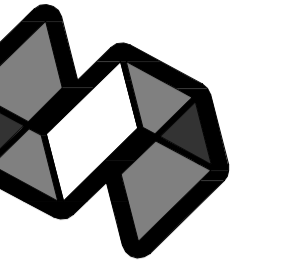
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**ELECTRICAL OVERALL SITE PLAN**

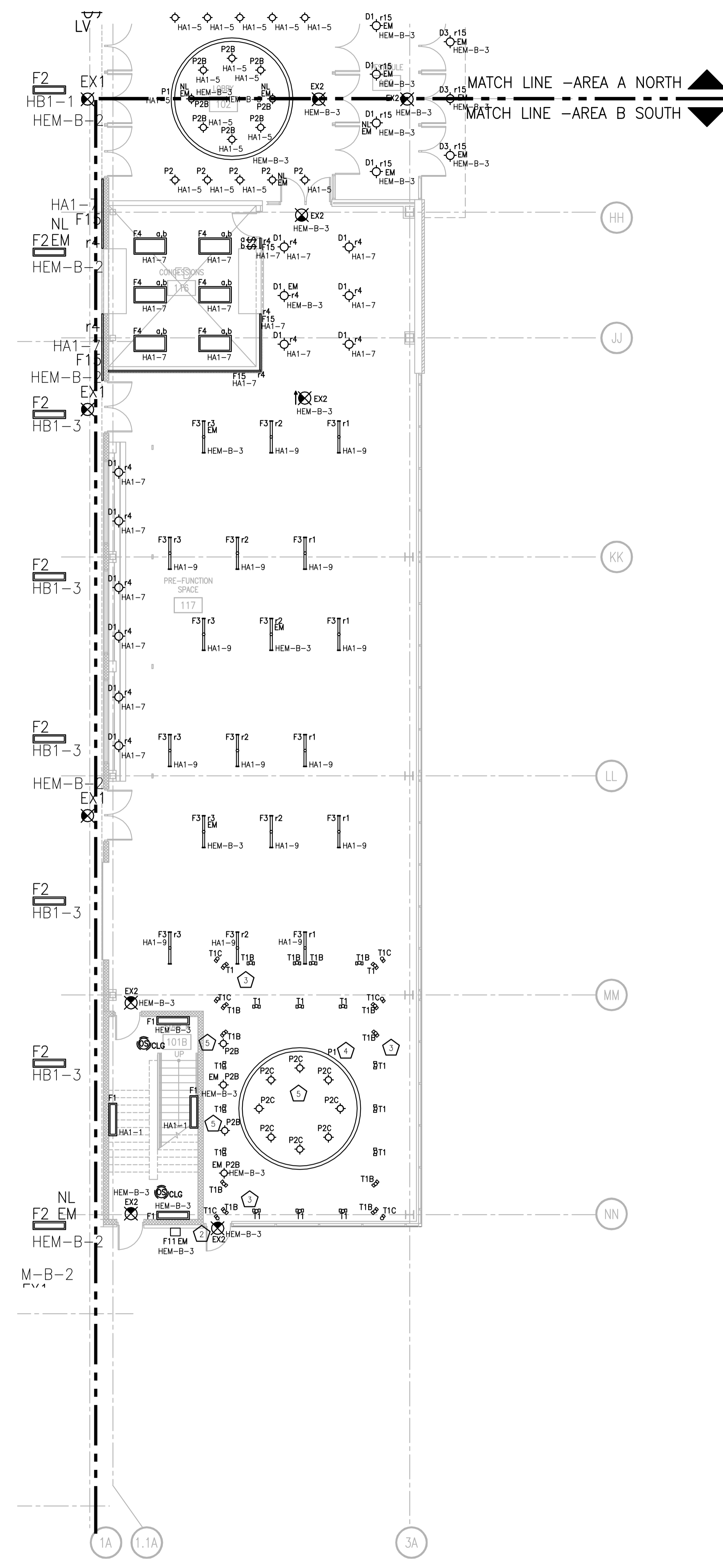
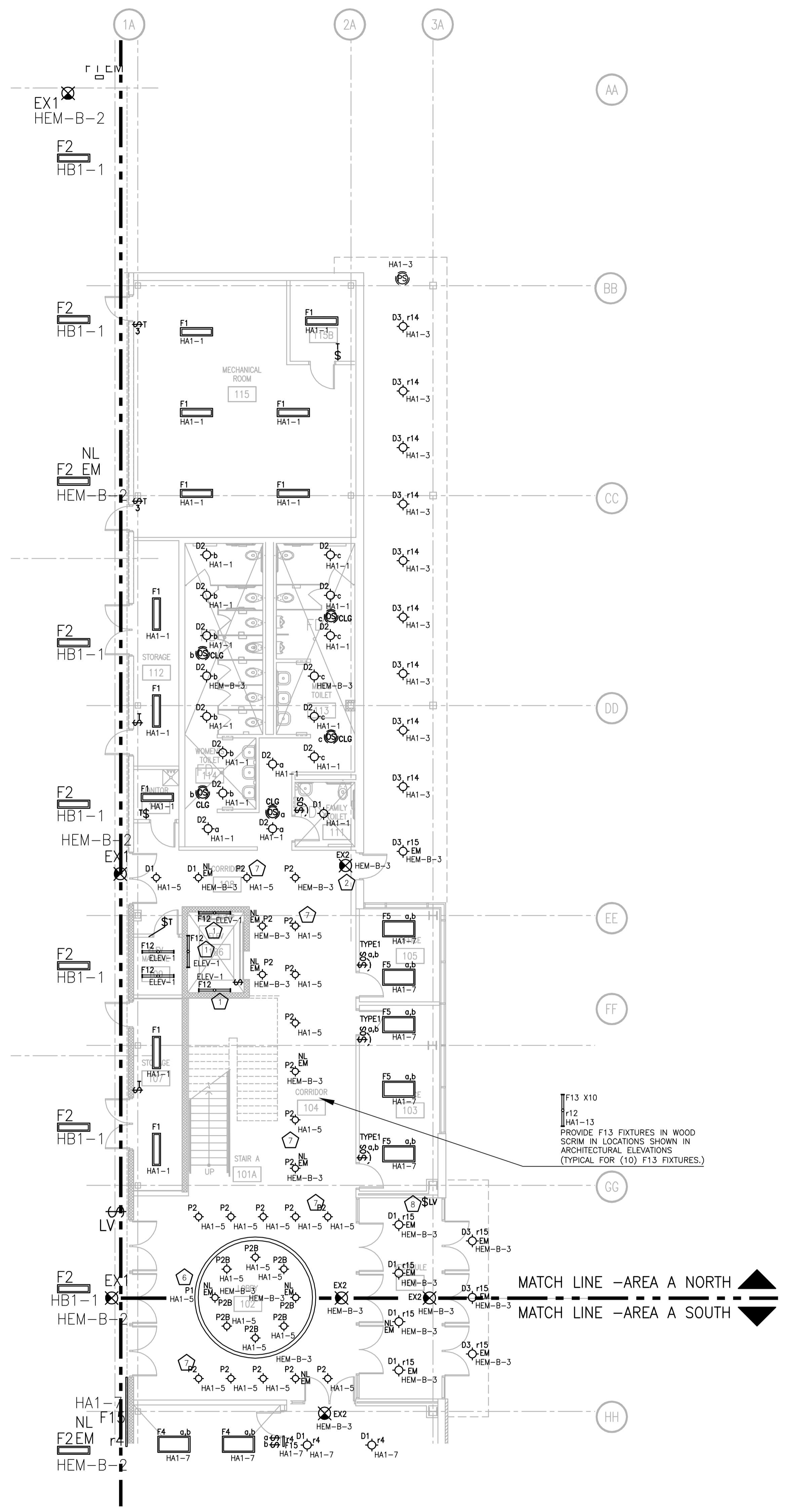
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**E002**



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F/ 608 276 9204



#	PLAN - SPECIFIC NOTES
1	MOUNT FIXTURES VERTICALLY IN ELEVATOR PIT. CIRCUIT LIGHT FIXTURES TO ELEV-1 PANEL LOCATED IN ROOM 109.
2	EXIT SIGN TO BE WALL MOUNTED.
3	FIXTURES T1, T1B AND T1C IN SOUTH HALF OF RM 117 ARE ON RELAY 6. FIXTURES ARE BEING FED FROM PANEL HA1 CIRCUIT 11.
4	FIXTURE P1 IS ON RELAY 7 IN SOUTH HALF OF RM 117. FIXTURE IS BEING FED FROM PANEL HA1 CIRCUIT 11.
5	FIXTURES P2B AND P2C IN SOUTH HALF OF RM 117 ARE ON RELAY 5. FIXTURES ARE BEING FED FROM PANEL HA1 CIRCUIT 11.
6	FIXTURE P1 LOCATED IN THE LOBBY IS ON RELAY 11.
7	FIXTURES P2 AND P2B LOCATED IN THE LOBBY AND CORRIDOR ARE ON RELAY 10.
8	LOW VOLTAGE SWITCH STATION FOR CONTROL IN PREFUNCTION SPACES. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 6.

FIRST FLOOR LIGHTING PLAN - AREA A NORTH  
SCALE: 1/8" = 1'-0"

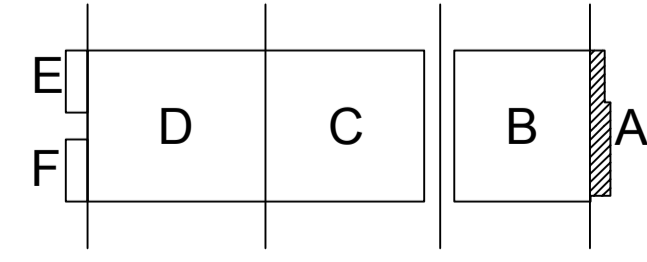
FIRST FLOOR LIGHTING PLAN - AREA A SOUTH  
SCALE: 1/8" = 1'-0"

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PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

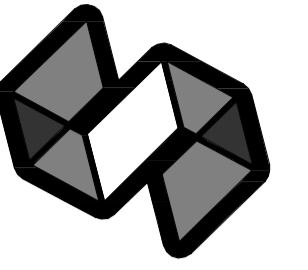


KEY PLAN

SHEET TITLE  
FIRST FLOOR LIGHTING PLAN  
AREA A BUILDING 1

SHEET NO.  
EL201A

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F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL TYPE F2 FIXTURES IN PAVILION SHALL BE CONTROLLED WITH (2) LOW VOLTAGE RELAYS FOR MULTI-LEVEL SWITCHING.
2	ALL TYPE F2 FIXTURES TO BE SURFACE MOUNTED TO UNISTRUT. SEE SHEET E401 FOR DETAIL.
3	2 LAMPS ON EMERGENCY FOR F2 FIXTURES.

PLAN - SPECIFIC NOTES	
1	FIXTURE WILL BE MOUNTED VERTICALLY BOTTOM OF FIXTURE 1'-0" ABOVE CONCRETE. SEE ARCHITECTURAL A400 SERIES DRAWINGS FOR LOCATION.
2	LOW VOLTAGE SWITCH STATION FOR CONTROL OF TYPE F2 FIXTURES IN PAVILION. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 6.
3	DAYLIGHT SENSOR TO BE MOUNTED ON ROOF.

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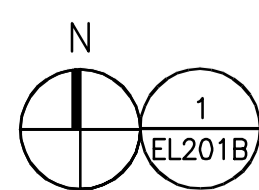
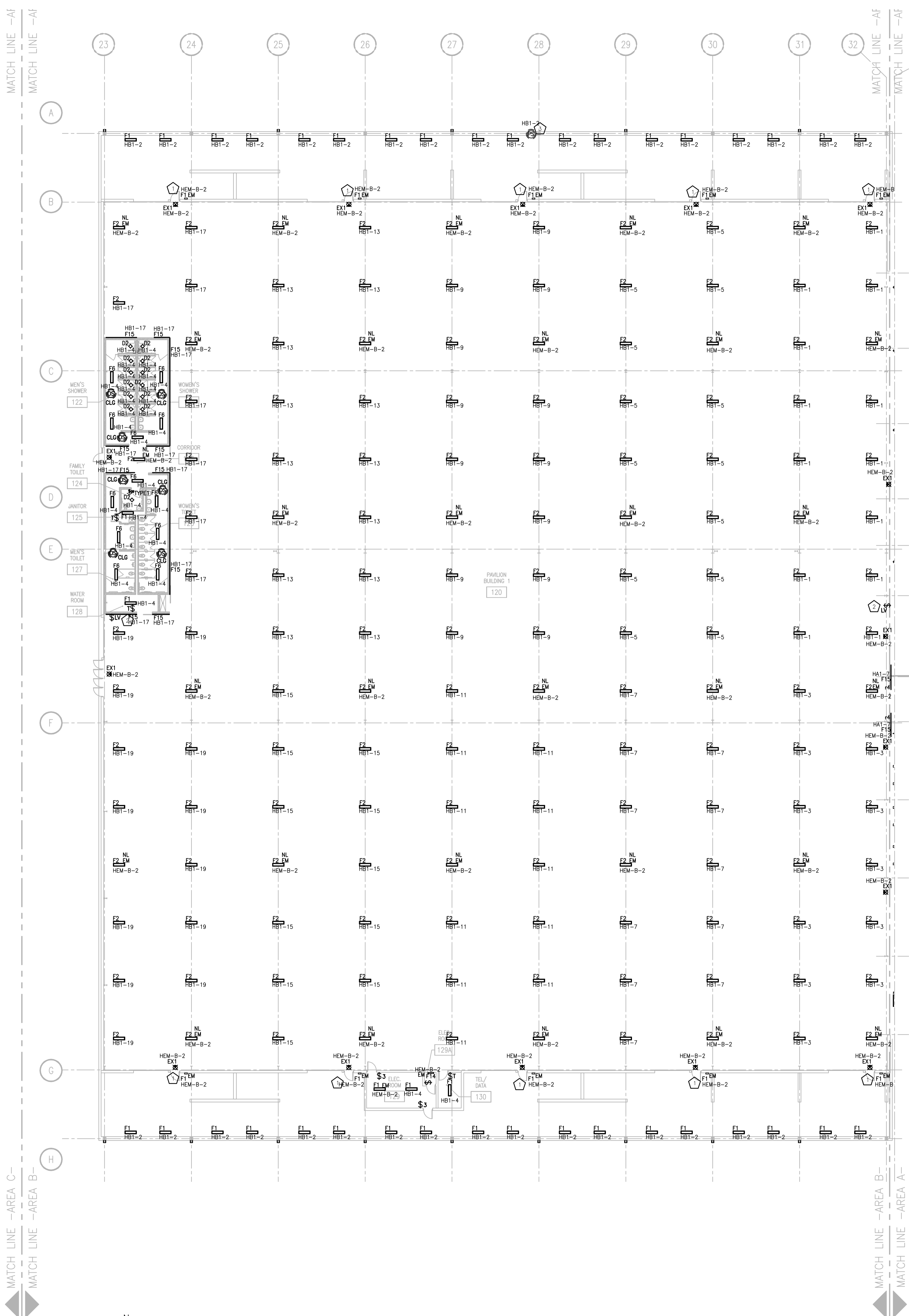
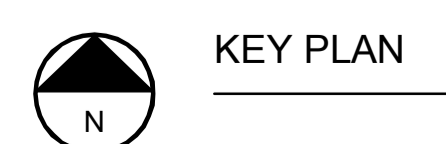
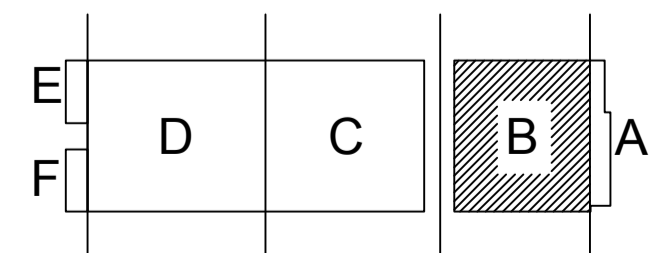
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PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

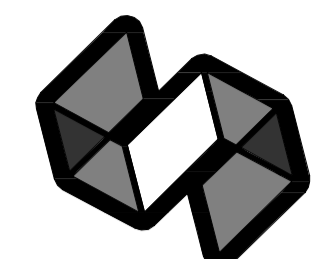
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FIRST FLOOR  
LIGHTING PLAN  
AREA B - BUILDING 1

SHEET NO.  
EL201B



FIRST FLOOR LIGHTING PLAN - AREA B  
SCALE: 1/16" = 1'-0"

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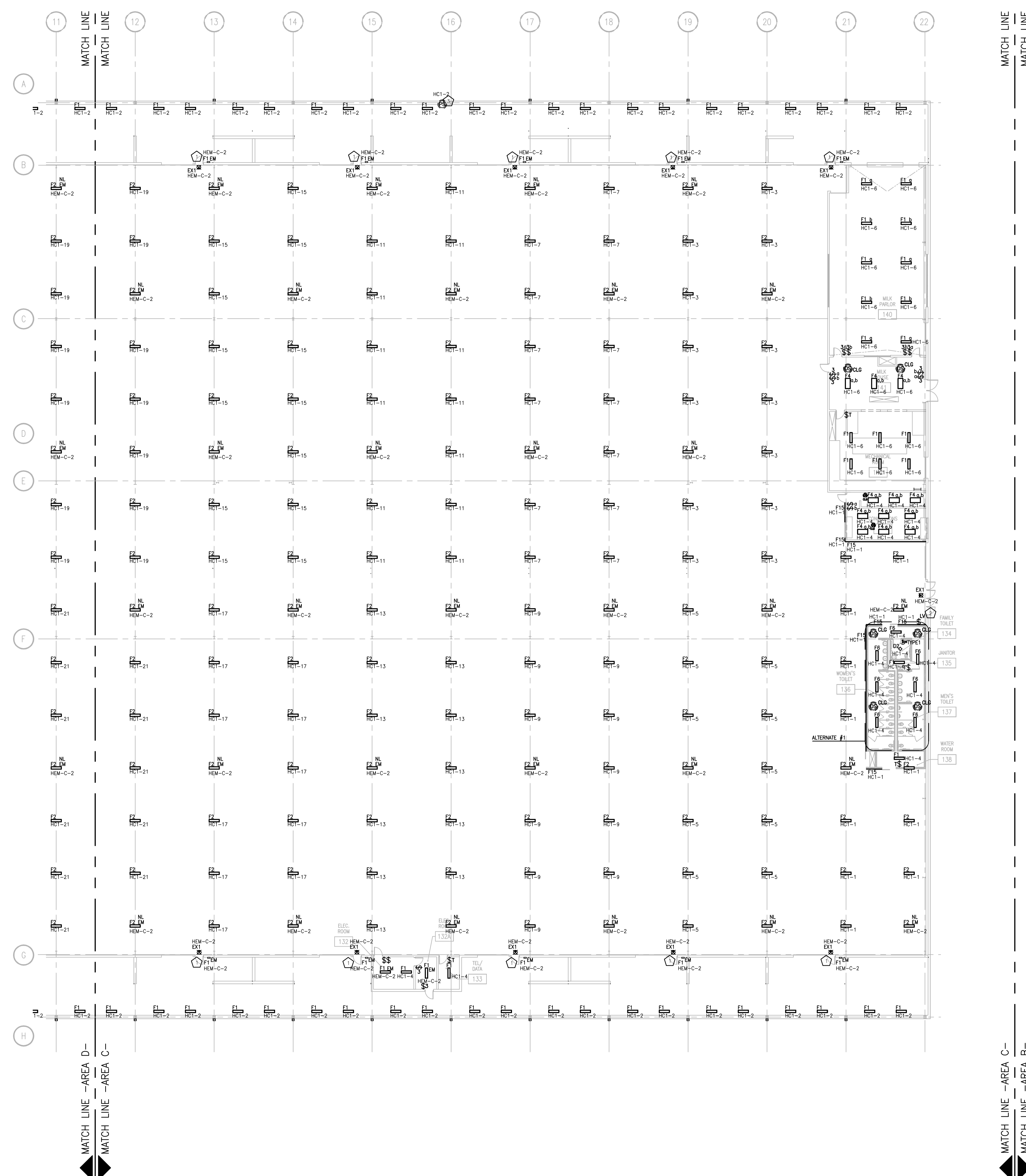
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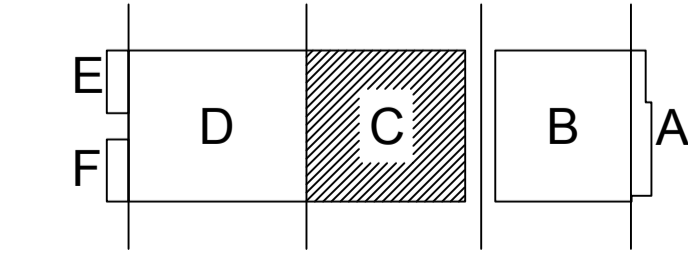
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GENERAL PLAN NOTES	
1	ALL TYPE F2 FIXTURES IN PAVILION SHALL BE CONTROLLED WITH (2) LOW VOLTAGE RELAYS FOR MULTI-LEVEL SWITCHING.
2	ALL TYPE F2 FIXTURES TO BE SURFACE MOUNTED TO UNISTRUT. SEE SHEET E401 FOR DETAIL.
3	2 LAMPS ON EMERGENCY FOR F2 FIXTURES.
4	ALTERNATE #1: ADD ALTERNATE - INTERIOR BUILD OUT OF FAMILY TOILET 134, JANITOR 135, WOMEN'S TOILET 136, AND MEN'S TOILET 137 (FLOOR SLAB AND UNDER FLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK)

PLAN - SPECIFIC NOTES	
1	FIXTURE WILL BE MOUNTED VERTICALLY BOTTOM OF FIXTURE 1'-0" ABOVE CONCRETE. SEE ARCHITECTURAL A400 SERIES DRAWINGS FOR LOCATION.
2	LOW VOLTAGE SWITCH STATION FOR CONTROL OF TYPE F2 FIXTURES IN PAVILION. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 8.
3	DAYLIGHT SENSOR TO BE MOUNTED ON ROOF.



FIRST FLOOR LIGHTING PLAN - AREA C  
SCALE: 1/16" = 1'-0"



KEY PLAN

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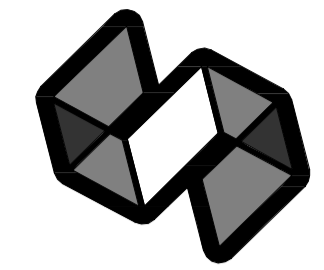
PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS  
BUILD # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
LIGHTING PLAN  
AREA C - BUILDING 2**

SHEET NO.  
**EL201C**

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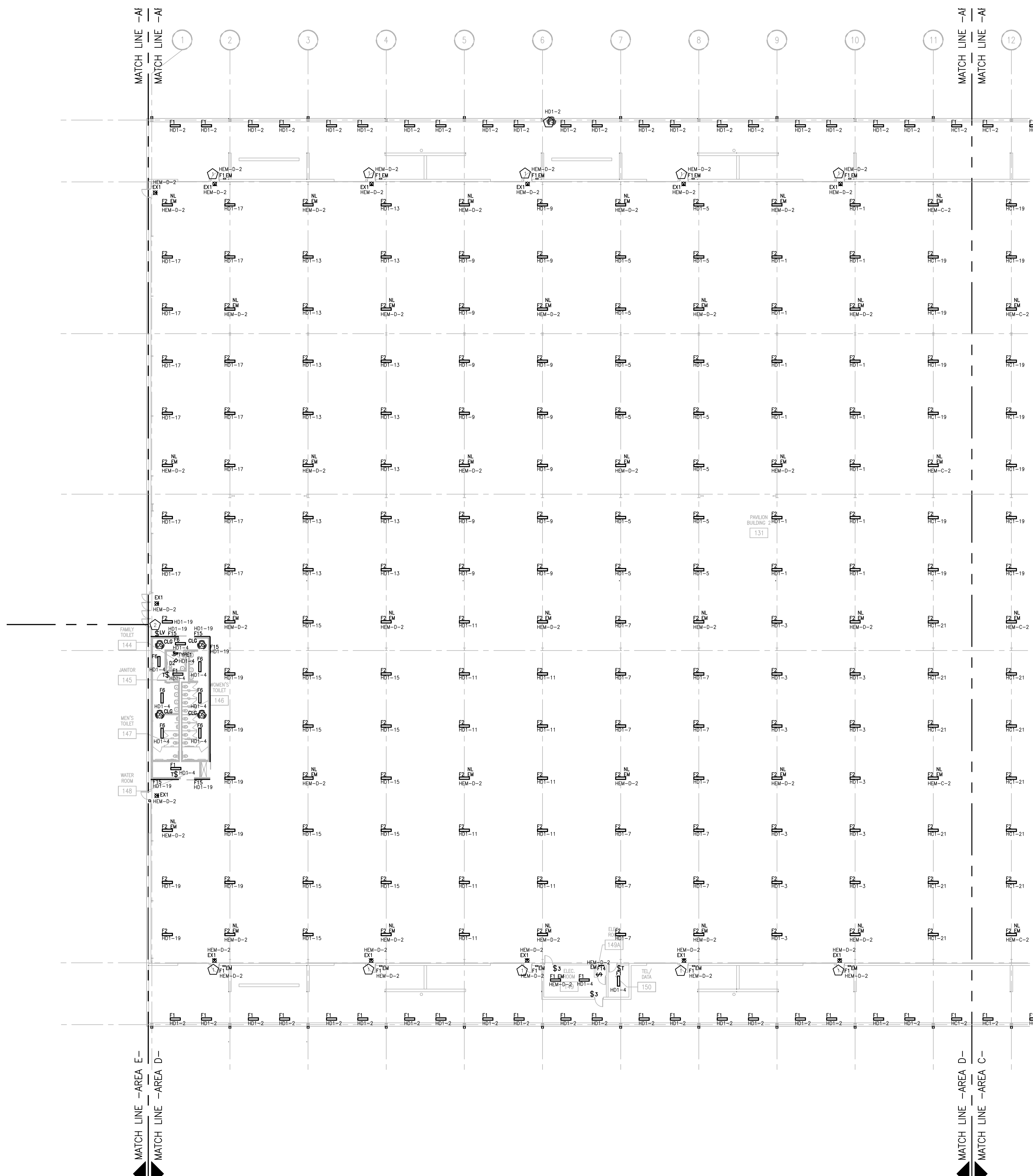
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F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL TYPE F2 FIXTURES IN PAVILION SHALL BE CONTROLLED WITH (2) LOW VOLTAGE RELAYS FOR MULTI-LEVEL SWITCHING.
2	ALL TYPE F2 FIXTURES TO BE SURFACE MOUNTED TO UNISTRUT. SEE SHEET E401 FOR DETAIL.
3	2 LAMPS ON EMERGENCY FOR F2 FIXTURES.

PLAN - SPECIFIC NOTES	
1	FIXTURE WILL BE MOUNTED VERTICALLY BOTTOM OF FIXTURE 1'-0" ABOVE CONCRETE. SEE ARCHITECTURAL A400 SERIES DRAWINGS FOR LOCATION.
2	LOW VOLTAGE SWITCH STATION FOR CONTROL OF TYPE F2 FIXTURES IN PAVILION. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 6.
3	DAYLIGHT SENSOR TO BE MOUNTED ON ROOF.



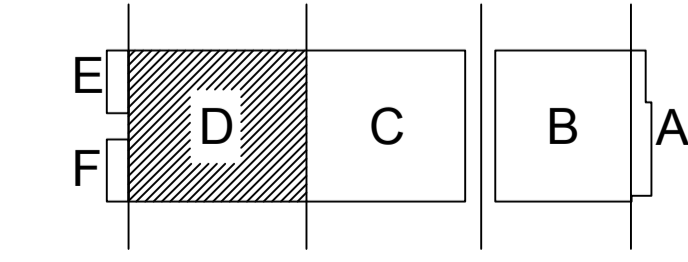
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FIRST FLOOR LIGHTING PLAN - AREA D  
SCALE: 1/16" = 1'-0"

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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



KEY PLAN

SHEET TITLE  
FIRST FLOOR  
LIGHTING PLAN  
AREA D - BUILDING 2

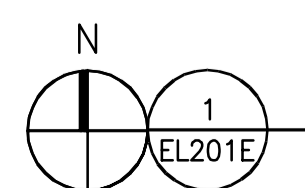
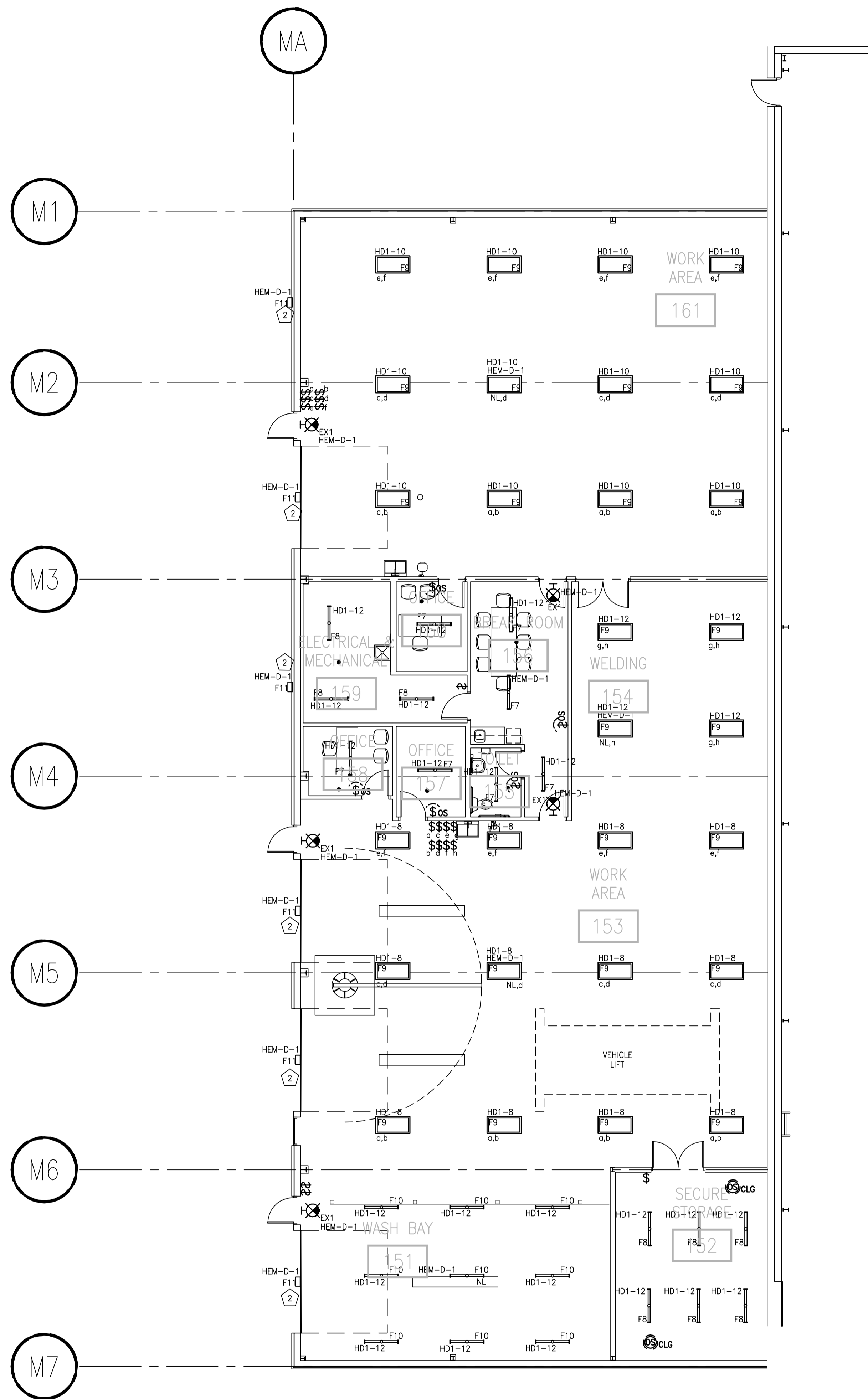
SHEET NO.  
EL201D

### BUILDING E GENERAL NOTES

- ALTERNATE BID 5: DELETE ALL WORK IN BUILDING 'E' EXCEPT:  
 -INSTALLATION OF PANEL LE AND TRANSFORMER TE  
 1 -FIRE ALARM INITIATION AND NOTIFICATION DEVICES IN 161,154,153,151 AND ABOVE INTERIOR ROOMS (NOT WITHIN INTERIOR ROOMS)  
 -EXTERIOR LIGHTING  
 -EXIT SIGNS AND FIXTURES IN 161,154,153,151 CIRCUITED TO PANEL HEM.

### BUILDING E SPECIFIC LIGHTING/POWER/SYSTEMS NOTES

#	PLAN NOTE
1	ROUTE 3/4" CONDUIT FROM OS-1 ALARM ON WALL TO OS-1 PIT UNDER SLAB. COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
2	EXTERIOR WALL MOUNT SO JUNCTION BOX IS CENTERED 1' ABOVE OH DOOR.
3	COORDINATE HEIGHT AND TYPE OF DOOR OPERATOR POWER CONNECTION WITH DOOR OPERATOR SUPPLIER. PROVIDE BACKBOX AT 42" AFF FOR OH DOOR CONTROL BUTTON STATION BY OTHERS. COORDINATE BOX SIZE WITH DOOR OPERATOR SUPPLIER. ROUTE 1/2" CONDUIT TO LOCATION OF DOOR OPERATOR. COORDINATE LOCATION WITH DOOR OPERATOR SUPPLIER. PROVIDE DISCONNECTING MEANS. COORDINATE WITH GC.
4	PROVIDE 12GA CORD PENDANT (NOT A CORD REEL) FOR 208V AND 120V RECEPTACLE FROM CEILING IN THIS LOCATION. PENDANT BOX SHALL HAVE A DUPLEX 120V RECEPTACLE ON ONE SIDE AND A SIMPLEX 208V RECEPTACLE ON THE OTHER SIDE. COORDINATE DEVICE TYPE WITH THAT SHOWN ON DRAWINGS. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
5	PROVIDE CEILING OR BEAM MOUNTED RECEPTACLE FOR CORD REELS AS SHOWN. ADJUST REEL STOP SO CORDS HANG AT 7' AFF. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
6	PROVIDE FIXED 12GA CORD PENDANT FOR 208V PENDANT CORD/PLUG FROM CEILING IN THIS LOCATION. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
7	COORDINATE REQUIRED DISCONNECT LOCATION WITH AHJ. IF ALLOWED, THE PREFERRED OPTION IS TO LOCATE DISCONNECT ADJACENT TO OR ON UNIT SERVED. HOWEVER, IF THE AHJ'S INTERPRETATION OF 'READILY ACCESSIBLE' REQUIRES THAT THE DISCONNECT BE LOCATED WITHIN REACH OF THE FLOOR, LOCATE DISCONNECT ON THE NEAREST WALL.
8	CEILING MOUNT OR WALL MOUNTED WITHIN 12" OF CEILING.
9	4"X8" UL LISTED FIRE RATED PLYWOOD PANEL AND 12 SPACE WALL MOUNTED RACK. PROVIDE PATCH PANELS AND WIRE MANGEMENT AS REQUIRED IN SPECIFICATIONS AND ON E402 TELECOMMUNICATIONS RISER DIAGRAM.
10	PADLOCKABLE NON FUSED DISCONNECT WIRED AHEAD OF PANEL B TO ALLOW LOOKOUT OF ENTIRE PANEL B POWER.
11	PROVIDE ELECTRICALLY HELD 3-POLE CONTACTOR IN OR ADJACENT TO PANEL B. CONTACTOR SHALL BE WIRED TO SWITCH IN OFFICE 110. CONTACTOR SHALL HAVE NO EXTERNAL CONTROLS OR OVERRIDE AND SHALL BE PROVIDED WITH A PADLOCKABLE COVER. IF A CONTACTOR INTEGRAL TO THE PANEL IS PROVIDED, THE PANEL COVER SHALL BE PADLOCKABLE.
12	PROVIDE FIXED 12GA CORD PENDANT FOR RECEPTACLE FROM CEILING IN THIS LOCATION. HANG RECEPTACLE DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. PROVIDE DEVICE AS SHOWN ON DRAWINGS. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
13	LOCATED ON MAIN SPACE CEILING, ABOVE ROOM.
14	LOCATE WITHIN 3' OF CEILING PEAK.



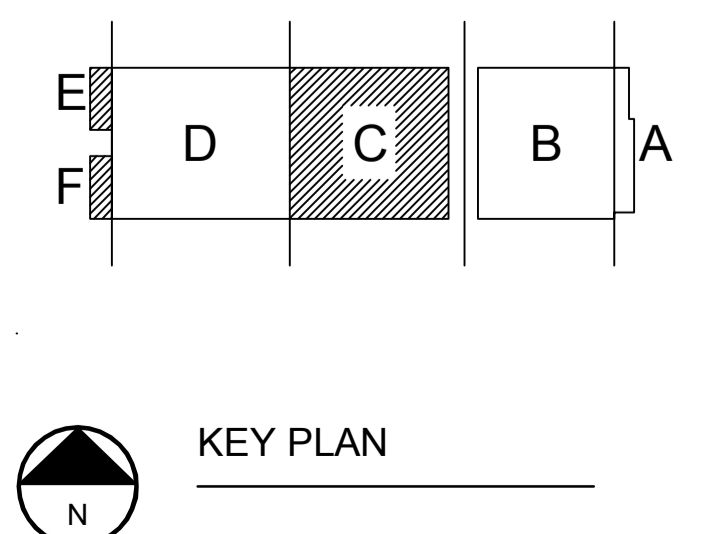
FIRST FLOOR LIGHTING PLAN - AREA E  
SCALE: 1/8" = 1'-0"

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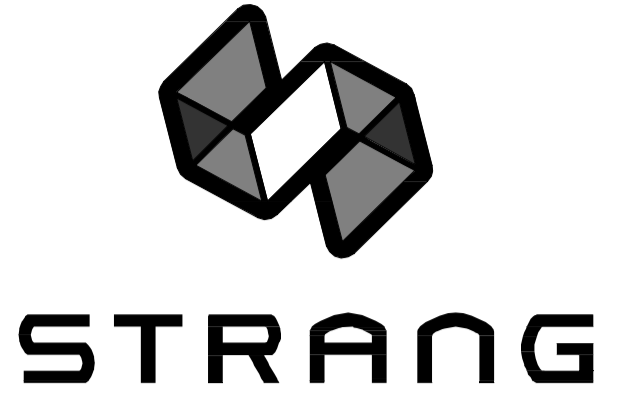
ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



SHEET TITLE  
FIRST FLOOR LIGHTING PLAN  
AREA E - BUILDING 2

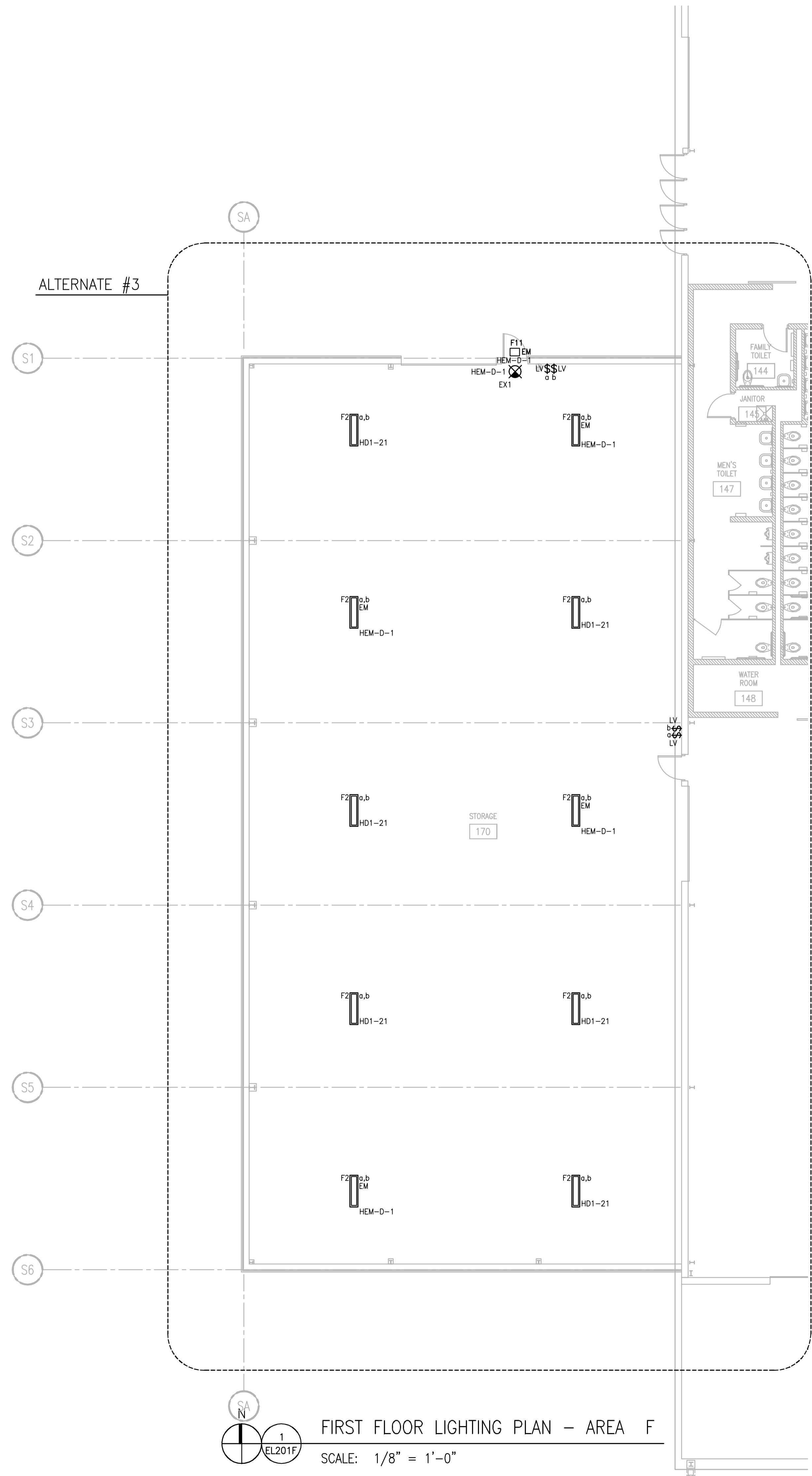
SHEET NO.  
EL201E



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

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6413 MINERAL POINT ROAD  
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GENERAL PLAN NOTES	
1	ALTERNATE #3: ADD ALTERNATE - AREA F

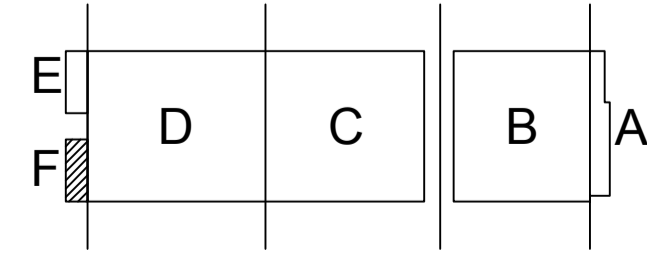


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PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



KEY PLAN

SHEET TITLE  
FIRST FLOOR  
LIGHTING PLAN  
AREA F

SHEET NO.  
EL201F

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GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN CONCESSIONS RM 116 SHALL BE GFI TYPE.

PLAN - SPECIFIC NOTES	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E801 FOR TRANSFORMER SIZE.
2	RECEPTACLE COLOR SHOULD COORDINATE WITH COLUMN "GREY".
3	PROVIDE TWIST-LOCK RECEPTACLE CEILING MOUNTED.
4	ELEVATOR POWER MODULE, SEE ONE-LINE DIAGRAM.
5	PROVIDE 200AMP FEEDER TO POWER POLE SERVING CAMPER AREA. INCLUDE VERTICAL RISER ON POLE WITH WEATHER PROOF HEAD NEAR TOP OF POLE. VERIFY LOCATION ON SITE AND VERIFY INSTALLATION REQUIREMENTS WITH OWNER.
6	PROVIDE (3) 4" PVC RACEWAYS TO NEW PULL BOX THAT REPLACES EXISTING PULL BOX BEING RELOCATED BECAUSE OF CANOPY SUPPORT BEAM.
7	PROVIDE A 30AMP 3PH TWIST-LOCK RECEPTACLE.

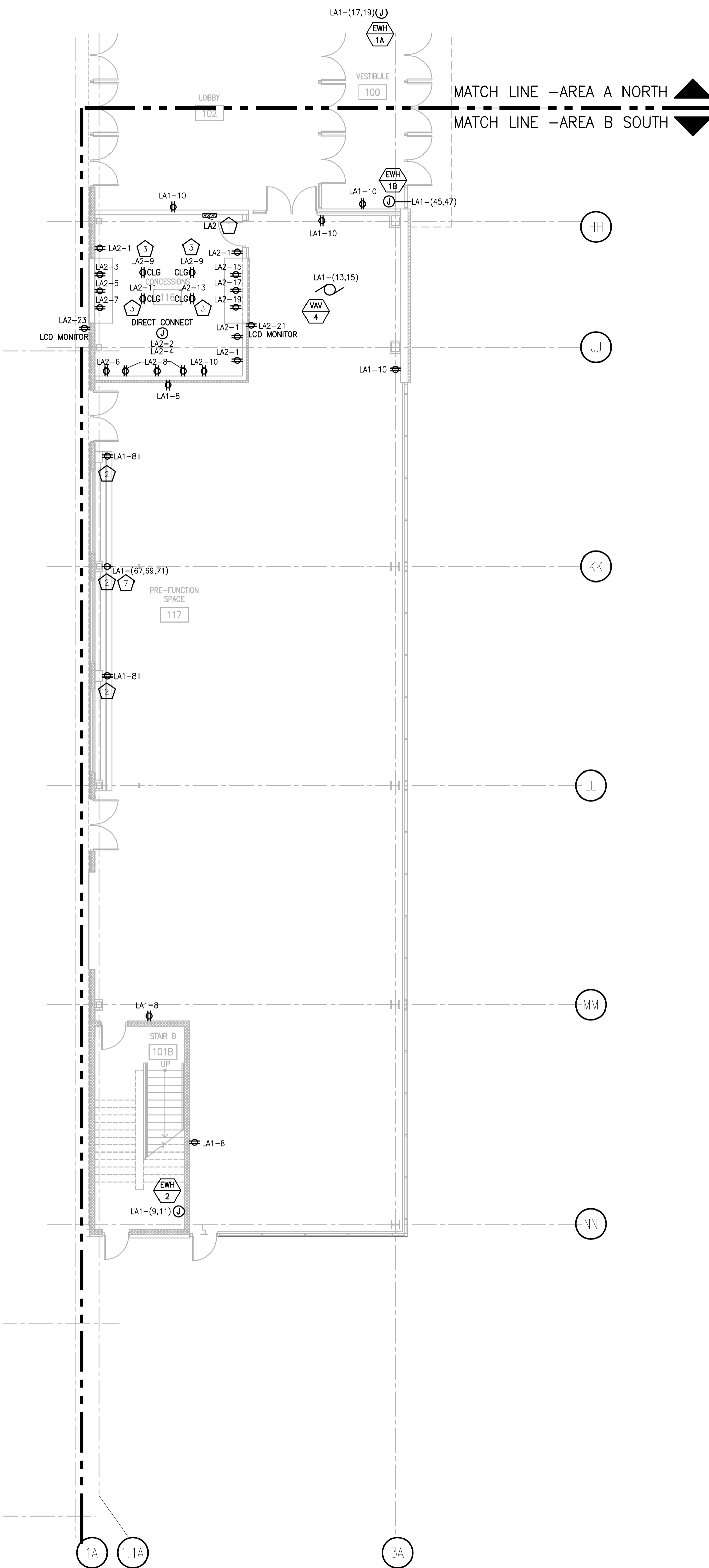
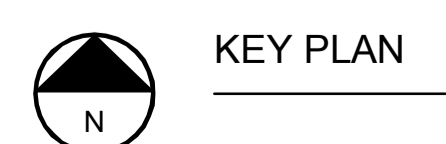
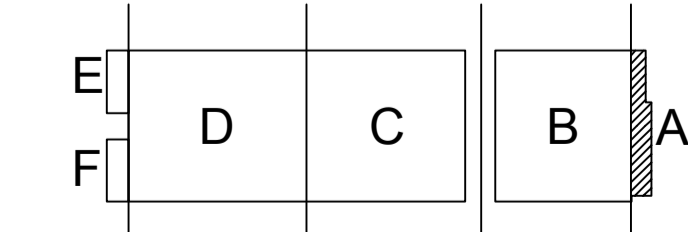
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PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

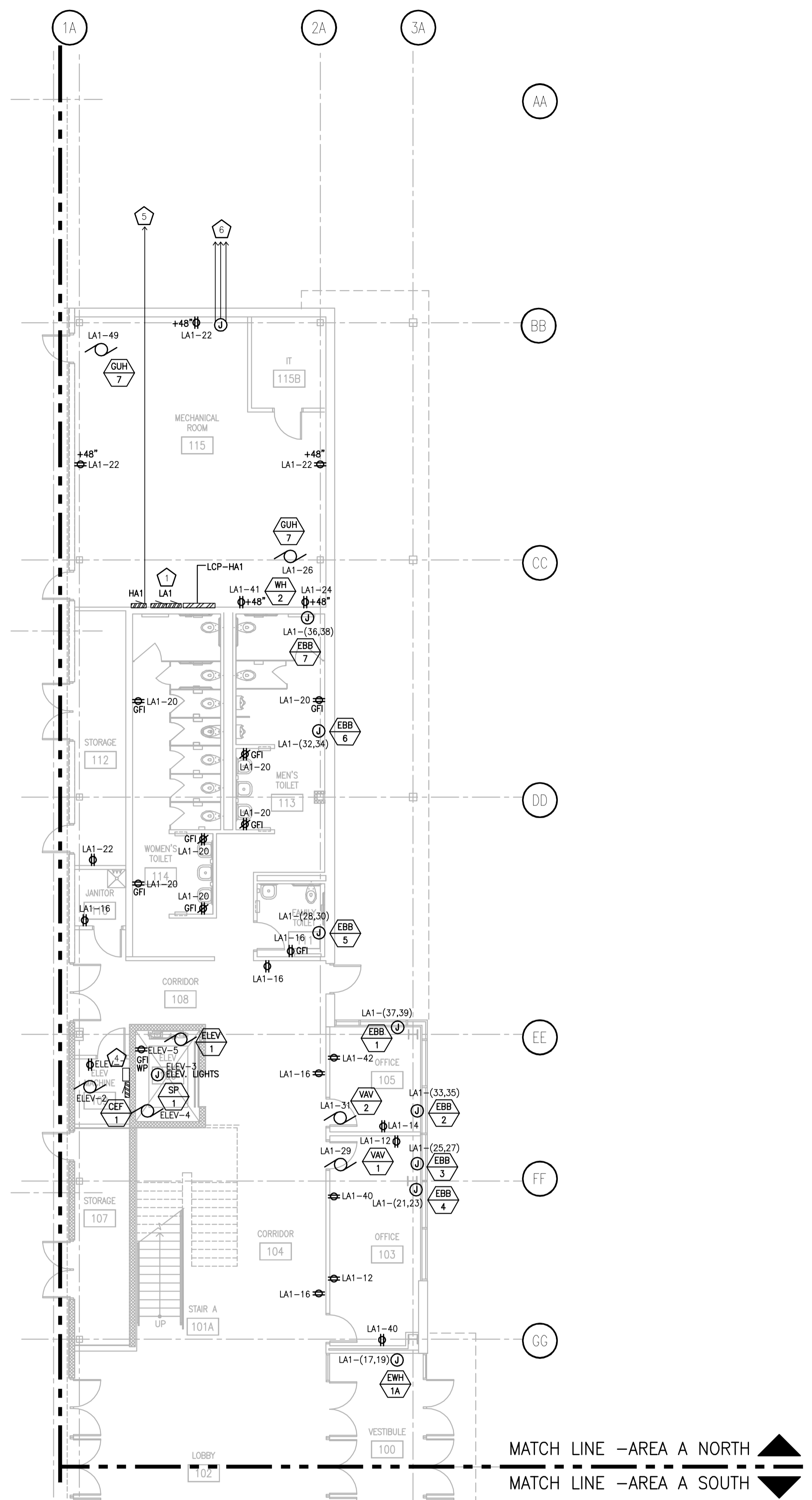
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
POWER PLAN  
AREA A BUILDING 1**

SHEET NO.  
**EP201A**

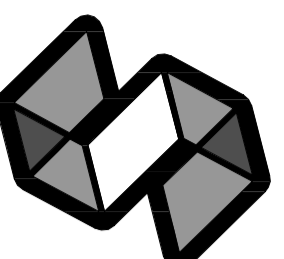


**FIRST FLOOR POWER PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR POWER PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"

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STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN THE PAVILION BUILDING SHALL BE GFI AND WATER PROOF.
2	UNDER ALTERNATE BID #8, ALL CORD REELS SHALL BE REPLACED WITH A CUSTOM OUTLET ASSEMBLY AS INDICATED ON DETAIL 3/E402.

PLAN - SPECIFIC NOTES	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.

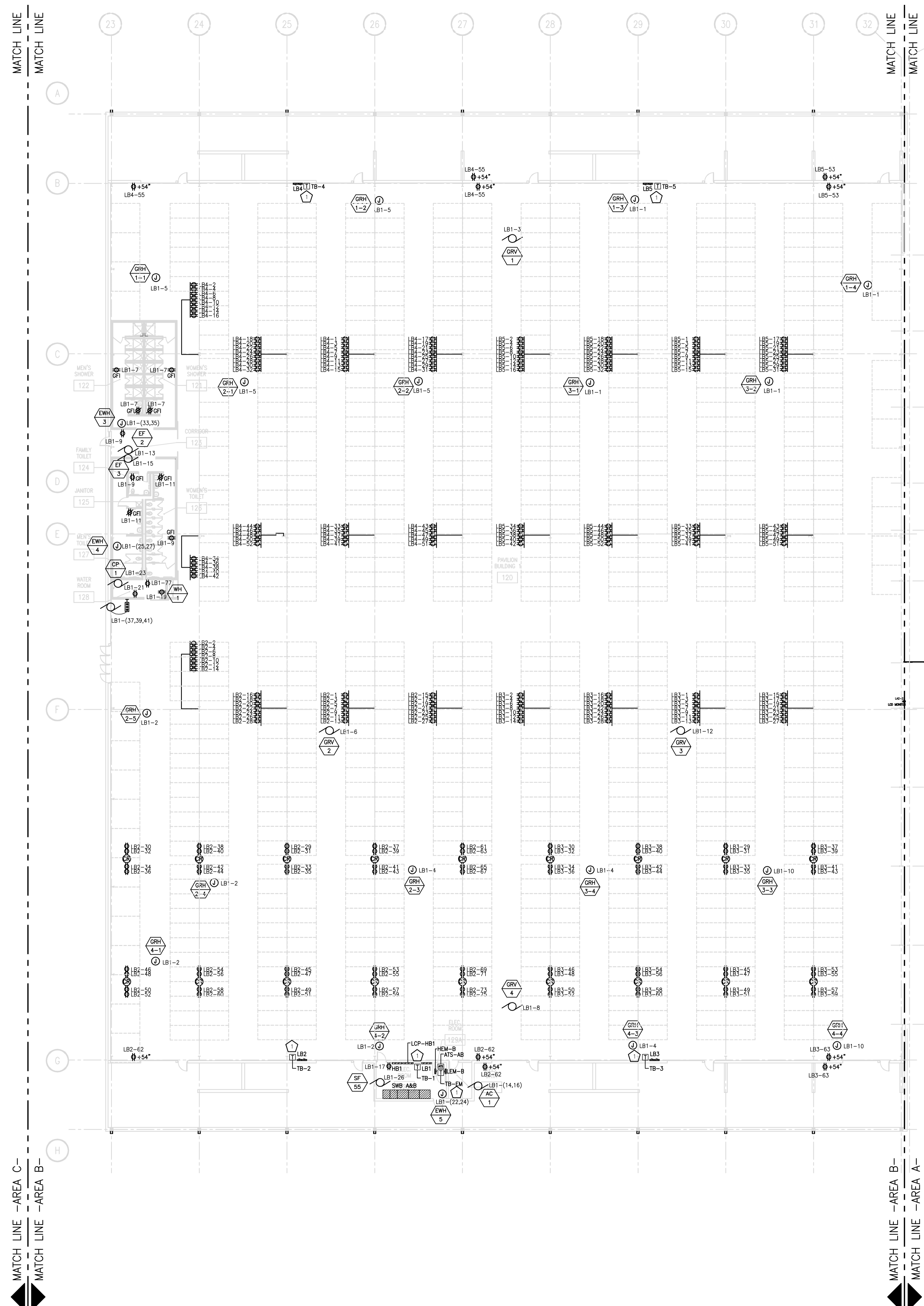
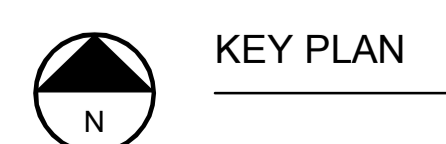
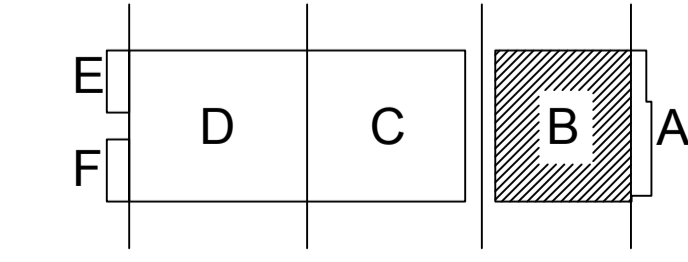
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PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

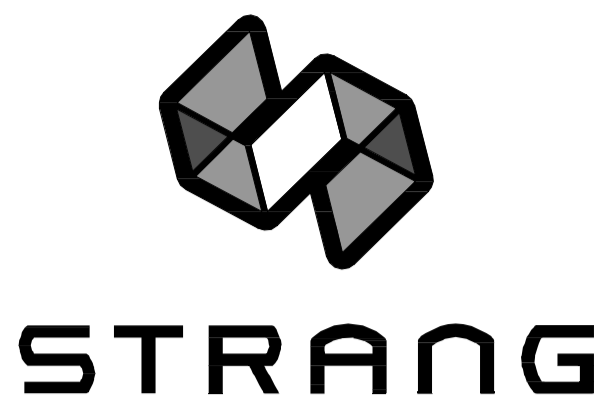
SHEET TITLE  
FIRST FLOOR  
POWER PLAN  
AREA B - BUILDING 1

SHEET NO.  
EP201B



FIRST FLOOR POWER PLAN - AREA B  
SCALE: 1/16" = 1'-0"

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ALLIANT ENERGY CENTER PAVILIONS & EXHIBITION SPACE EXPANSION 2013027\_02-EP201B.DWG  
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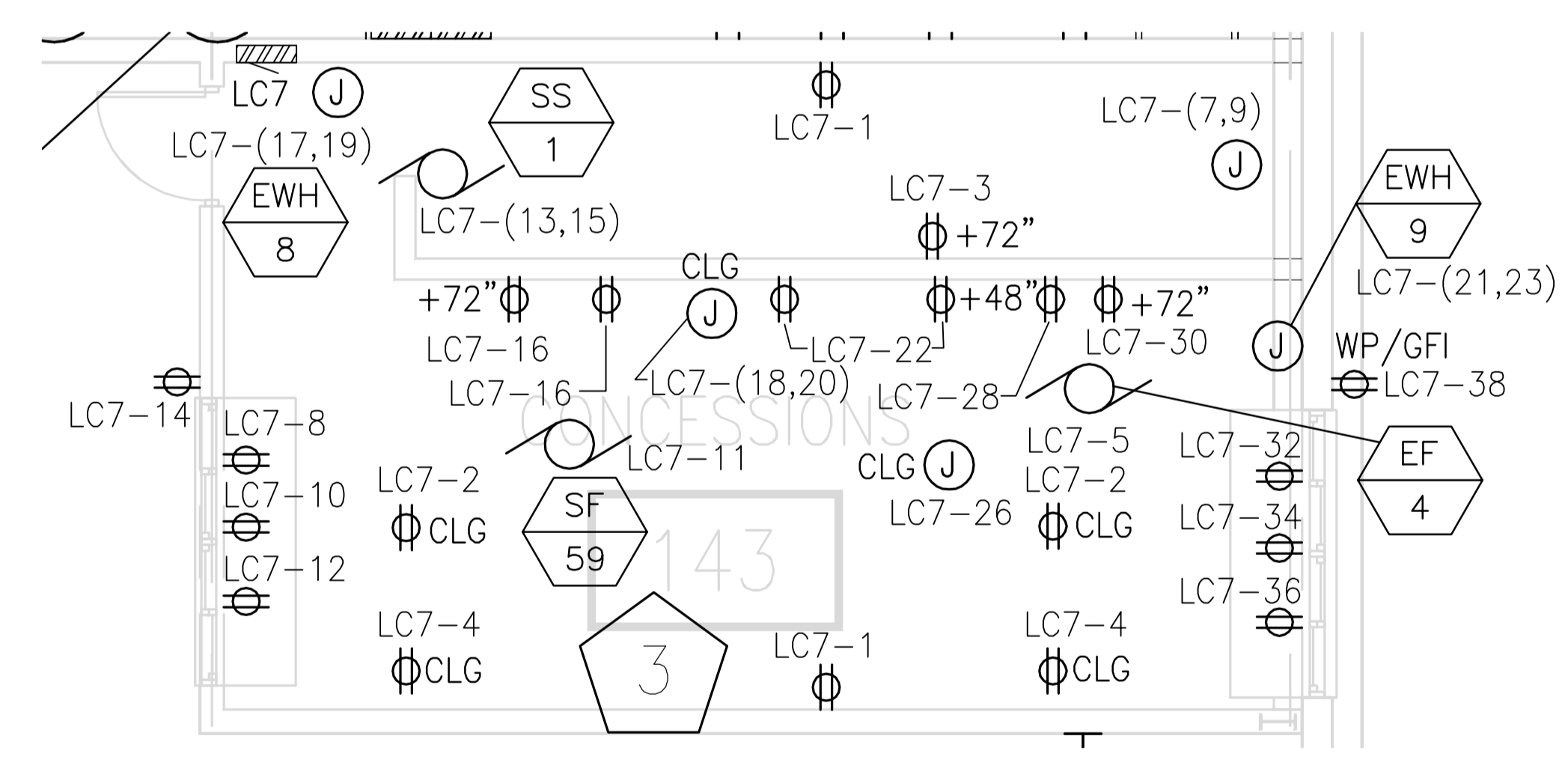


ARCHITECTURE  
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INTERIOR DESIGN

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8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
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GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN PAVILION BUILDINGS SHALL BE GFI AND WATERPROOF.
2	ALL RECEPTACLES IN CONCESSIONS RM 143 TO BE GFI TYPE.
3	ALTERNATE #1: ADD ALTERNATE - INTERIOR BUILD OUT OF FAMILY TOILET 134, JANITOR 135, WOMEN'S TOILET 136, AND MEN'S TOILET 137 (FLOOR SLAB AND UNDER FLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK).
4	UNDER ALTERNATE BID #6, ALL CORG REELS SHALL BE REPLACED WITH A CUSTOM OUTLET ASSEMBLY AS INDICATED ON DETAIL 3/E402.

PLAN - SPECIFIC NOTES	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.
2	PROVIDE A NEMA 12, 4 WIRE WITH BOTH NEUTRAL AND GROUND RECEPTACLE.
3	SEE "X" SCALE DRAWING ON THIS SHEET.
4	PROVIDE DISCONNECTS FOR HARDWIRED EQUIPMENT IN MECHANICAL ROOM 142 AND MILKING HOUSE 141.
5	COMPLETE INSTALLATION OF AN EQUIPOTENTIAL PLANE (EPP) SYSTEM MUST BE PROVIDED AS REQUIRED BY NEC ARTICLE 547.
6	EPP SYSTEM MUST BE INSTALLED COMPLETELY WITH ALL CONDUCTIVE OBJECTS ON OR NEAR THE EPP BONDED TO THE WIRE MESH INSTALLED IN THE SLAB. THIS INCLUDES BUT IS NOT LIMITED TO: STANCHIONS, STALL PARTITIONS, METAL POSTS OR COLUMNS, WATER LINES, METALLIC WATERERS AND FEEDERS, STAINLESS STEEL MILK PIPELINES, GROUNDED METAL BUILDING FRAME.
7	WELDED STEEL MESH INSTALLED IN MILKING PARLOR FLOOR SLAB AND REINFORCING RODS INSTALLED IN THE FOUR VOLTAGE RAMPS WILL BE PROVIDED BY G.E. BUT ALL GROUND/BOND WIRES WILL BE PROVIDED AND INSTALLED BY E.C.
8	WELDED STEEL MESH SHALL BE 6"x6" NOT SMALLER THAN NO.10 GAUGE AND REINFORCING RODS SHALL BE MIN. #3 GAUGE.
9	BONDING CONDUCTORS SHALL BE NOT SMALLER THAN NO.8 AWG COPPER.
10	THE EPP SHALL BE BONDED TO THE FACILITY SERVICE GROUNDING SYSTEM AT THE ELECTRIC SERVICE LOCATION WITH A MIN. AWG 2 COPPER GROUND CONDUCTOR INSTALLED IN PVC RACEWAY.
11	ALL BOND WIRES SHALL BE INSTALLED IN PVC RACEWAY WHERE CONDUCTOR EXTENDS INTO CONCRETE SLABS. THE BOND BETWEEN THE EPP AND THE BUILDING GROUND SYSTEM MUST BE EXPOSED (NOT BURIED IN CONCRETE OR EARTH) SO IT CAN BE INSPECTED.
12	THE EXPOSED BOND SHALL CONSIST OF BARE COPPER CONDUCTORS BONDED TO THE MESH AND LEFT PROTRUDING FROM THE CONCRETE AND THEN CONNECTED TO THE BUILDING GROUND SYSTEM TO PRODUCE A VISIBLE BOND. OTHER APPROVED METHODS WILL BE CONSIDERED.
13	INSTALL VOLTAGE RAMPS (TRANSITION AREA) WHERE LIVESTOCK ENTER AND EXIT THE EPP. G.C. SHALL PROVIDE #6, 10" REINFORCING RODS DRIVEN ON A 45° SLOPE INTO GROUND ON A 12" CENTER ALONG THE WIDTH OF THE TRANSITION AREA SO THAT A MINIMUM 48" SPACE OUTSIDE THE EPP AREA IS CREATED SO THAT A GRADUAL CHANGE IN VOLTAGE POTENTIAL IS ACHIEVED. GROUND RODS ARE THEN BONDED TO THE MESH BY WELDING.
14	BOND EPP TO STAINLESS STEEL MILKING SYSTEM/PIPING USING #8 AWG COPPER CONDUCTOR TO A STAINLESS STEEL HOSE CLAMP WITH A COPPER LUG.
15	SEE STRUCTURE DRAWING S201C FOR ADDITIONAL INFORMATION REGARDING EPP MESH AND REINFORCING RODS.
16	DETAILS ON DRAWING ARE TYPICAL SHOWING GENERAL INTENT AND ARE NOT INTENDED TO BE FIELD WIRING DIAGRAMS.



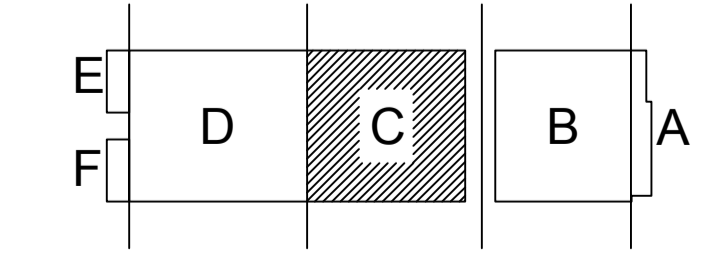
CONCESSIONS RM 143  
SCALE: 1/4" = 1'-0"

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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

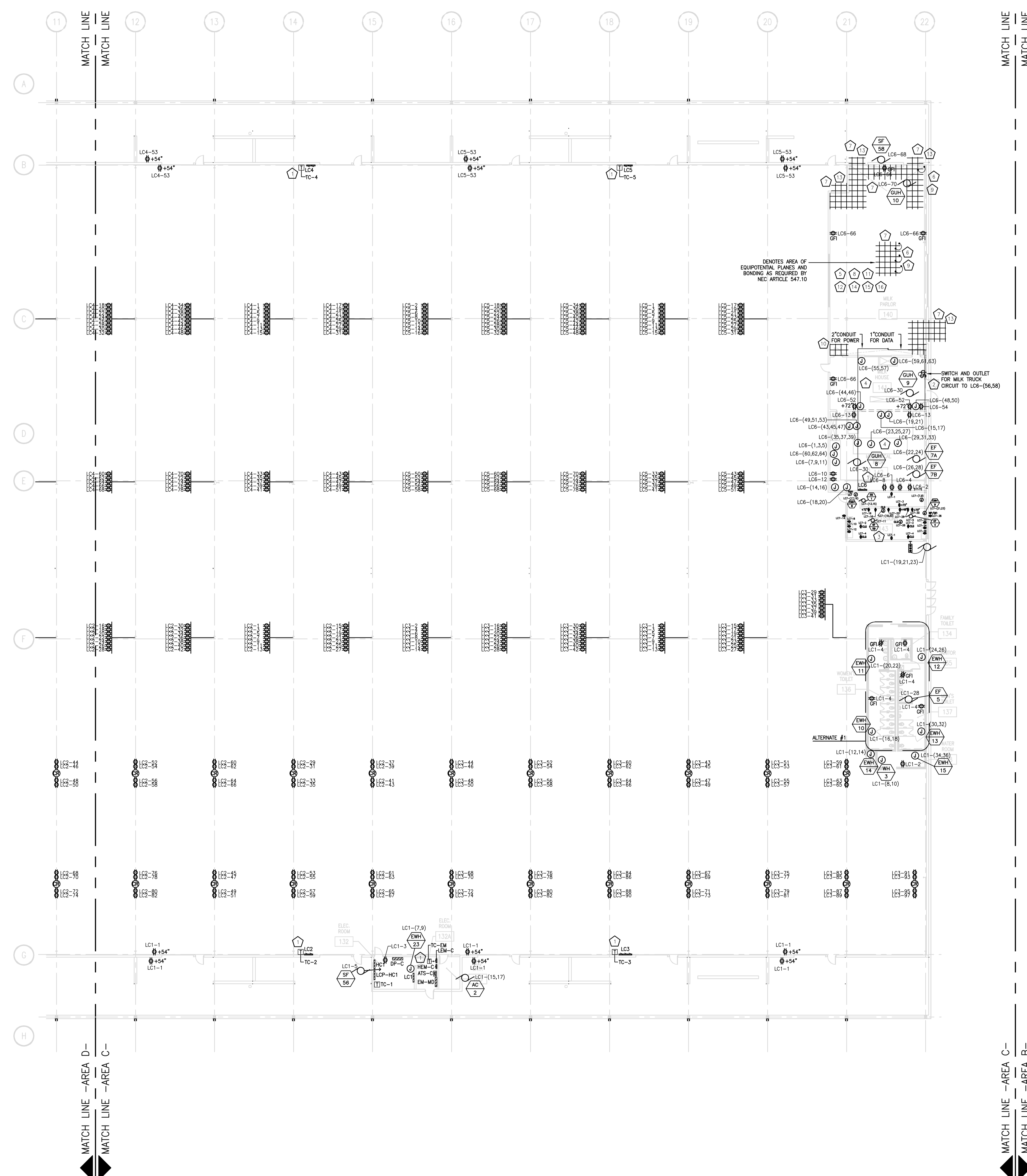
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



KEY PLAN

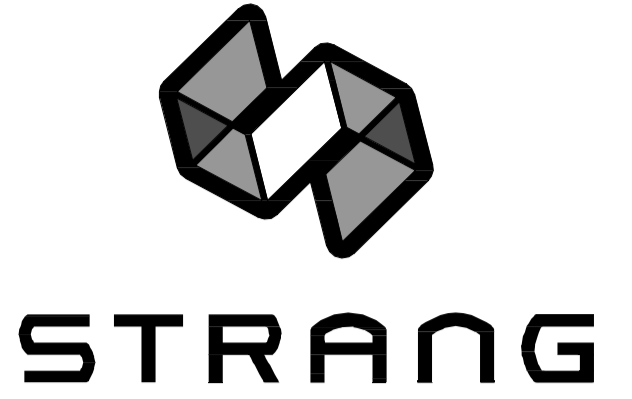
SHEET TITLE  
FIRST FLOOR  
POWER PLAN  
AREA C - BUILDING 2

SHEET NO.  
EP201C



FIRST FLOOR POWER PLAN - AREA C  
SCALE: 1/16" = 1'-0"

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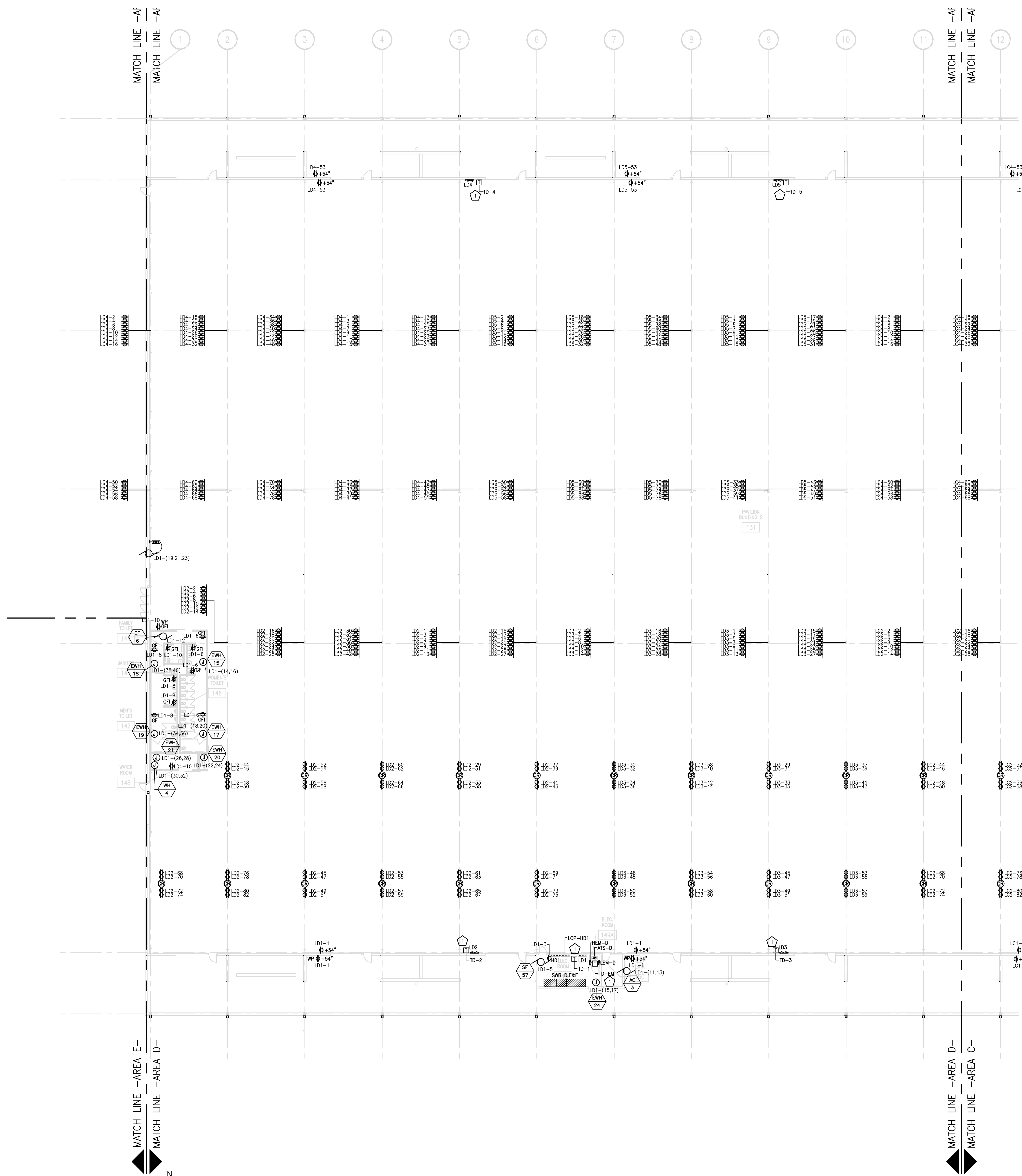


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

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8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN PAVILION BUILDINGS SHALL BE GFI AND WATERPROOF.
2	UNDER ALTERNATE BID #8, ALL CORD REELS SHALL BE REPLACED WITH A CUSTOM OUTLET ASSEMBLY AS INDICATED ON DETAIL 3/E402.

PLAN - SPECIFIC NOTES	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.



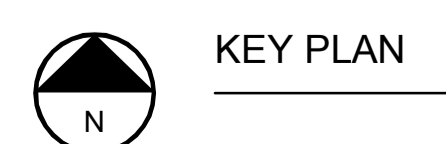
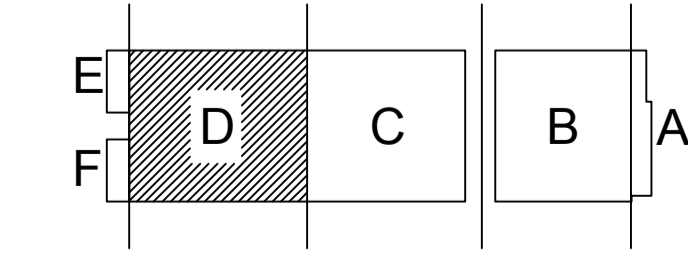
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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
FIRST FLOOR  
POWER PLAN  
AREA D - BUILDING 2

SHEET NO.  
EP201D



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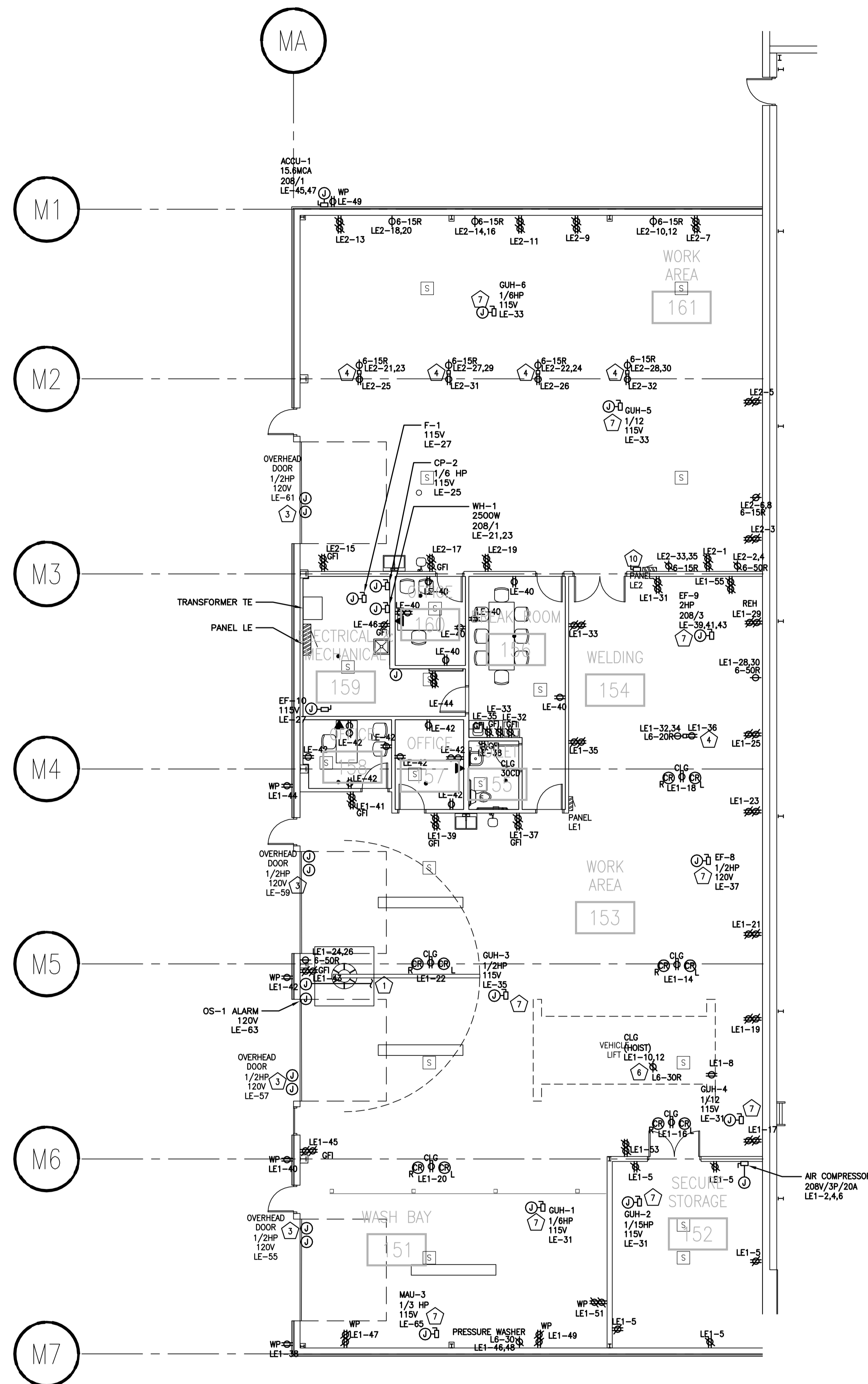
FIRST FLOOR POWER PLAN - AREA D  
SCALE: 1/16" = 1'-0"

### BUILDING E GENERAL NOTES

- ALTERNATE BID 5: DELETE ALL WORK IN BUILDING 'E' EXCEPT:  
 -INSTALLATION OF PANEL LE AND TRANSFORMER TE  
 1 -FIRE ALARM INITIATION AND NOTIFICATION DEVICES IN 161,154,153,151 AND ABOVE INTERIOR ROOMS (NOT WITHIN INTERIOR ROOMS)  
 -EXTERIOR LIGHTING  
 -EXIT SIGNS AND FIXTURES IN 161,154,153,151 CIRCUITED TO PANEL HEM.

### BUILDING E SPECIFIC LIGHTING/POWER/SYSTEMS NOTES

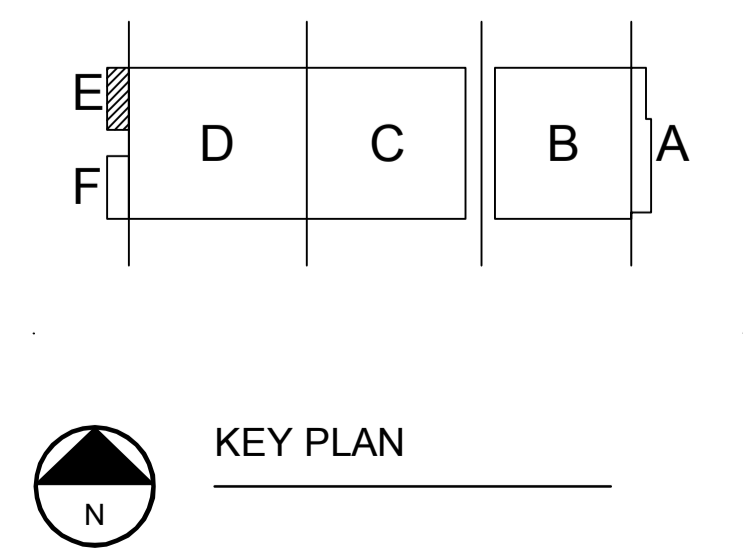
#	PLAN NOTE
1	ROUTE 3/4" CONDUIT FROM OS-1 ALARM ON WALL TO OS-1 PIT UNDER SLAB. COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
2	EXTERIOR WALL MOUNT SO JUNCTION BOX IS CENTERED 1' ABOVE OH DOOR.
3	COORDINATE HEIGHT AND TYPE OF DOOR OPERATOR POWER CONNECTION WITH DOOR OPERATOR SUPPLIER. PROVIDE BACKBOX AT 42" AFF FOR OH DOOR CONTROL BUTTON STATION BY OTHERS. COORDINATE BOX SIZE WITH DOOR OPERATOR SUPPLIER. ROUTE 1/2" CONDUIT TO LOCATION OF DOOR OPERATOR. COORDINATE LOCATION WITH DOOR OPERATOR SUPPLIER. PROVIDE DISCONNECTING MEANS. COORDINATE WITH GC.
4	PROVIDE 12GA CORD PENDANT (NOT A CORD REEL) FOR 208V AND 120V RECEPTACLE FROM CEILING IN THIS LOCATION. PENDANT BOX SHALL HAVE A DUPLEX 120V RECEPTACLE ON ONE SIDE AND A SIMPLEX 208V RECEPTACLE ON THE OTHER SIDE. COORDINATE DEVICE TYPE WITH THAT SHOWN ON DRAWINGS. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
5	PROVIDE CEILING OR BEAM MOUNTED RECEPTACLE FOR CORD REELS AS SHOWN. ADJUST REEL STOP SO CORDS HANG AT 7' AFF. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
6	PROVIDE FIXED 15GA CORD PENDANT FOR 208V PENDANT CORD/PLUG FROM CEILING IN THIS LOCATION. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
7	COORDINATE REQUIRED DISCONNECT LOCATION WITH AHJ. IF ALLOWED, THE PREFERRED OPTION IS TO LOCATE DISCONNECT ADJACENT TO OR ON UNIT SERVED. HOWEVER, IF THE AHJ'S INTERPRETATION OF 'READILY ACCESSIBLE' REQUIRES THAT THE DISCONNECT BE LOCATED WITHIN REACH OF THE FLOOR, LOCATE DISCONNECT ON THE NEAREST WALL.
8	CEILING MOUNT OR WALL MOUNTED WITHIN 12" OF CEILING.
9	4"X8" UL LISTED FIRE RATED PLYWOOD PANEL AND 12 SPACE WALL MOUNTED RACK. PROVIDE PATCH PANELS AND WIRE MANGEMENT AS REQUIRED IN SPECIFICATIONS AND ON E402 TELECOMMUNICATIONS RISER DIAGRAM.
10	PADLOCKABLE NON FUSED DISCONNECT WIRED AHEAD OF PANEL B TO ALLOW LOOKOUT OF ENTIRE PANEL B POWER.
11	PROVIDE ELECTRICALLY HELD 3-POLE CONTACTOR IN OR ADJACENT TO PANEL B. CONTACTOR SHALL BE WIRED TO SWITCH IN OFFICE 110. CONTACTOR SHALL HAVE NO EXTERNAL CONTROLS OR OVERRIDE AND SHALL BE PROVIDED WITH A PADLOCKABLE COVER. IF A CONTACTOR INTEGRAL TO THE PANEL IS PROVIDED, THE PANEL COVER SHALL BE PADLOCKABLE.
12	PROVIDE FIXED 12GA CORD PENDANT FOR RECEPTACLE FROM CEILING IN THIS LOCATION. HANG RECEPTACLE DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. PROVIDE DEVICE AS SHOWN ON DRAWINGS. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
13	LOCATED ON MAIN SPACE CEILING, ABOVE ROOM.
14	LOCATE WITHIN 3' OF CEILING PEAK.



DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-EP201E.DWG
REVISIONS	ADDENDUM #1 8/5/13
DRAWN	ML
CHECKED	-
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
 BID # 313072

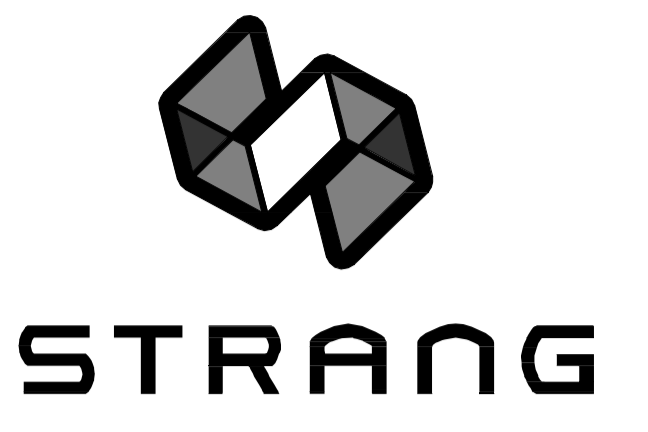
1919 ALLIANT ENERGY CENTER WAY  
 MADISON, WISCONSIN 53713



SHEET TITLE  
**FIRST FLOOR  
 POWER PLAN  
 AREA E - BUILDING 2**

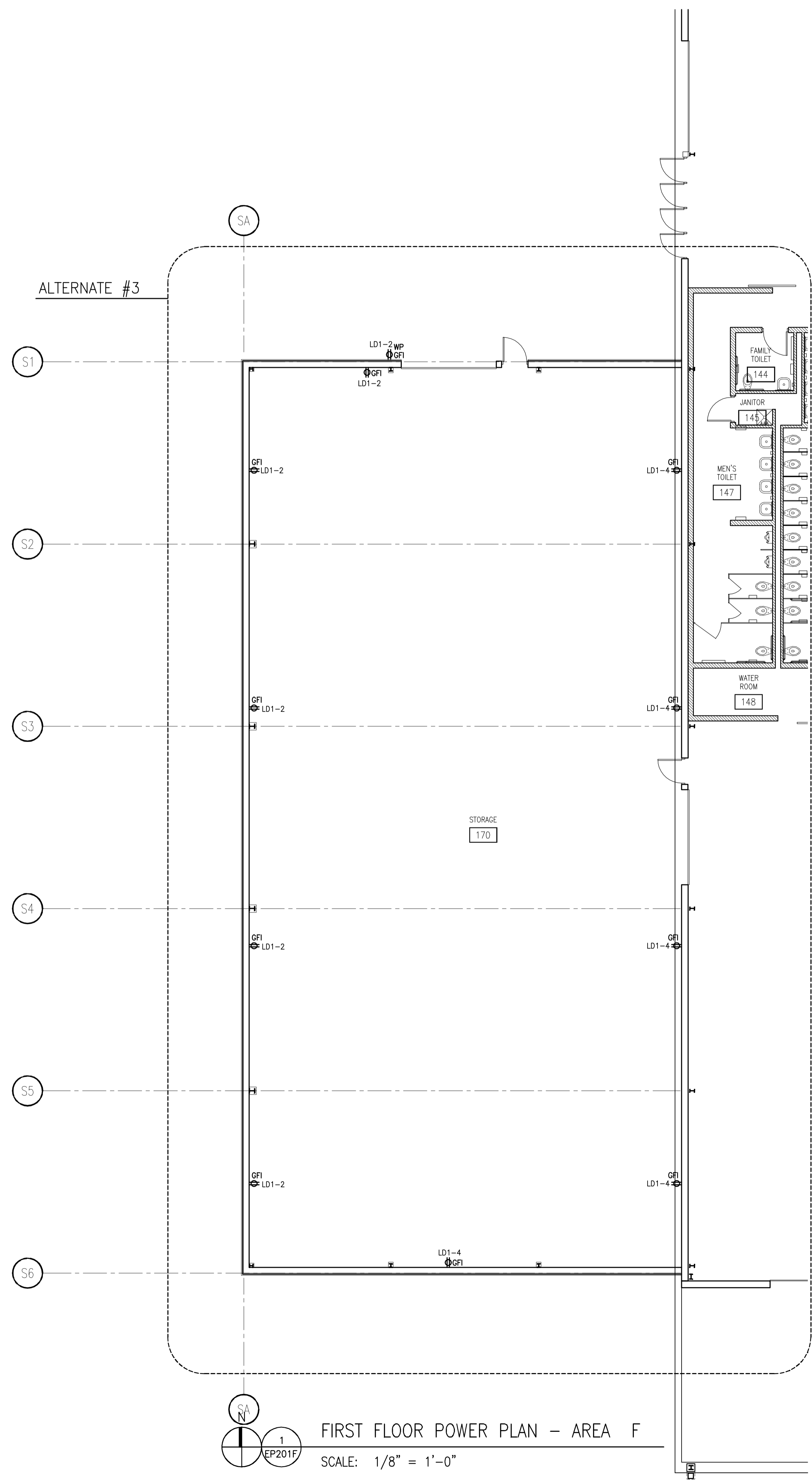
SHEET NO.  
**EP201E**

GENERAL PLAN NOTES	
1	RECEPTACLES TO BE MOUNT AT 48" AFF.
2	ALTERNATE #3: ADD ALTERNATE -- AREA F.



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
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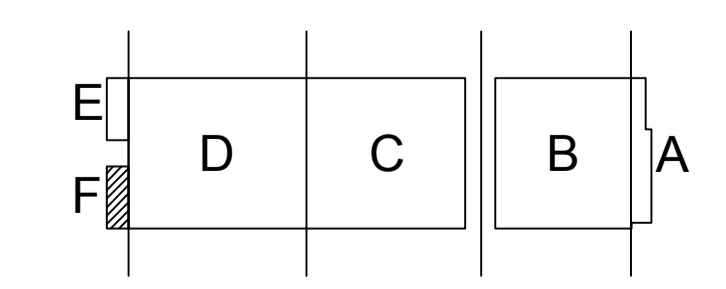
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EP201F  
FIRST FLOOR POWER PLAN - AREA F  
SCALE: 1/8" = 1'-0"

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FILE NAME	2013027_02-EP201F.DWG
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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

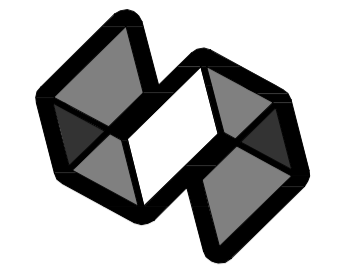
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



SHEET TITLE  
**FIRST FLOOR  
POWER PLAN  
AREA F BUILDING 2**

SHEET NO.  
**EP201F**

CARLOS RUIZ, 2009-10-30 2:27 PM K:\2013\313072 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIVESTOCK AND EXHIBITION HALLDRAWINGS\2013027\_02-EP201F.DWG

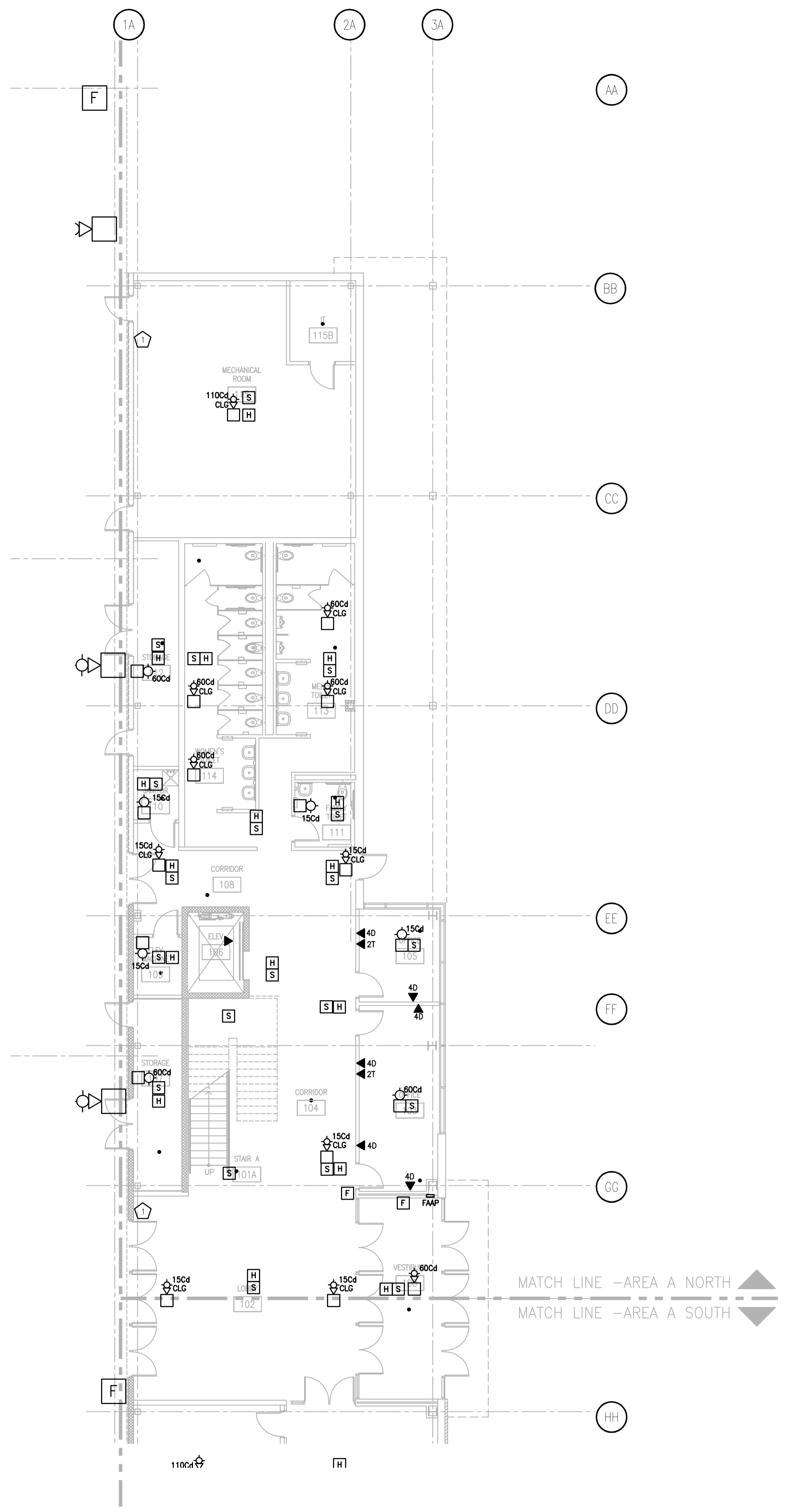


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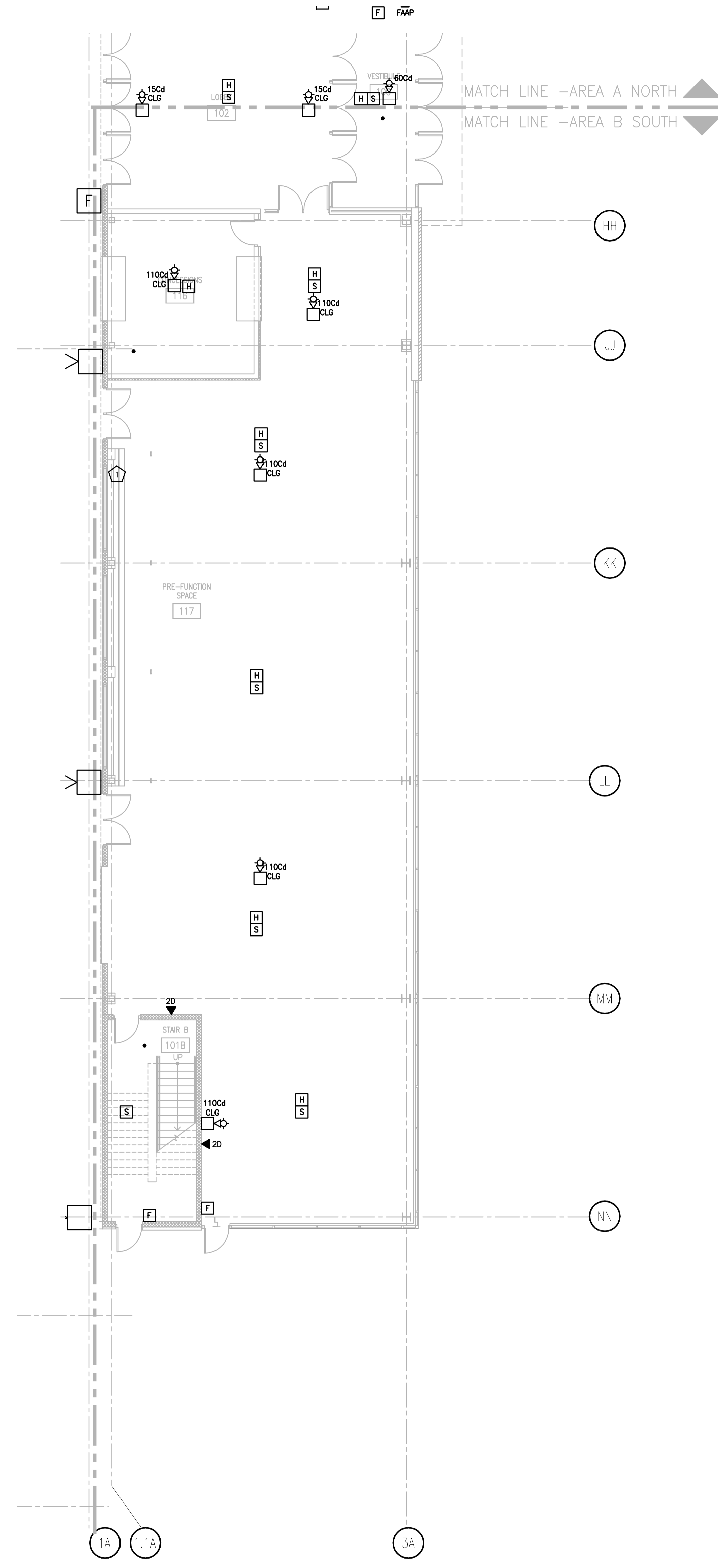
ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL FIRE ALARM TO BE FED FROM PANEL LEM-B.
PLAN - SPECIFIC NOTES	
1	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402 LOCATE 18" AFF.



**1** FIRST FLOOR SYSTEMS PLAN - AREA A NORTH  
SCALE: 1/8" = 1'-0"

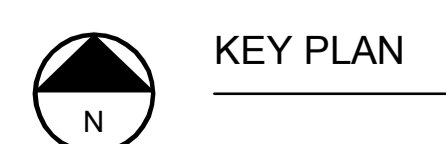
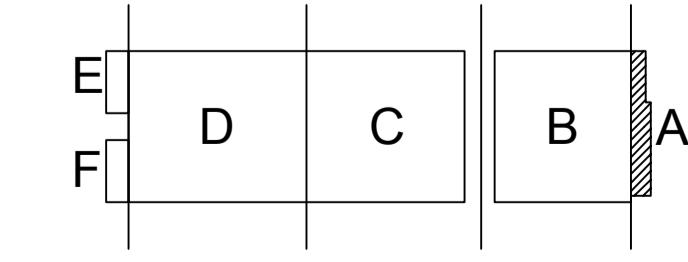


**2** FIRST FLOOR SYSTEMS PLAN - AREA A SOUTH  
SCALE: 1/8" = 1'-0"

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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

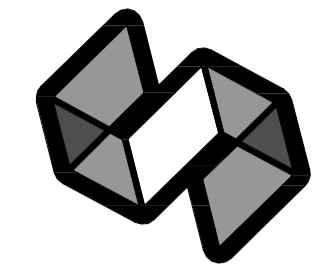


KEY PLAN

SHEET TITLE  
**FIRST FLOOR SYSTEMS PLAN  
AREA A BUILDING 1**

SHEET NO.  
**ES201A**

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ENGINEERING  
INTERIOR DESIGN

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MADISON, WI 53705-4395  
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F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL SPEAKER/STROBES ARE SURFACE MOUNTED TO UNISTRUT UNLESS LOCATED ON WALL.
2	ALL FIRE ALARM SYSTEM EQUIPMENT IN PAVILION BUILDING 120 MUST BE WATERPROOF.
3	ALL FIRE ALARM EQUIPMENT TO BE FED FROM PANEL LEM-B.

PLAN - SPECIFIC NOTES	
1	QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES TO BE COORDINATED WITH SPRINKLER CONTRACTOR.
2	REFER TO SHEET E301 FOR EQUIPMENT LOCATED IN ROOM.

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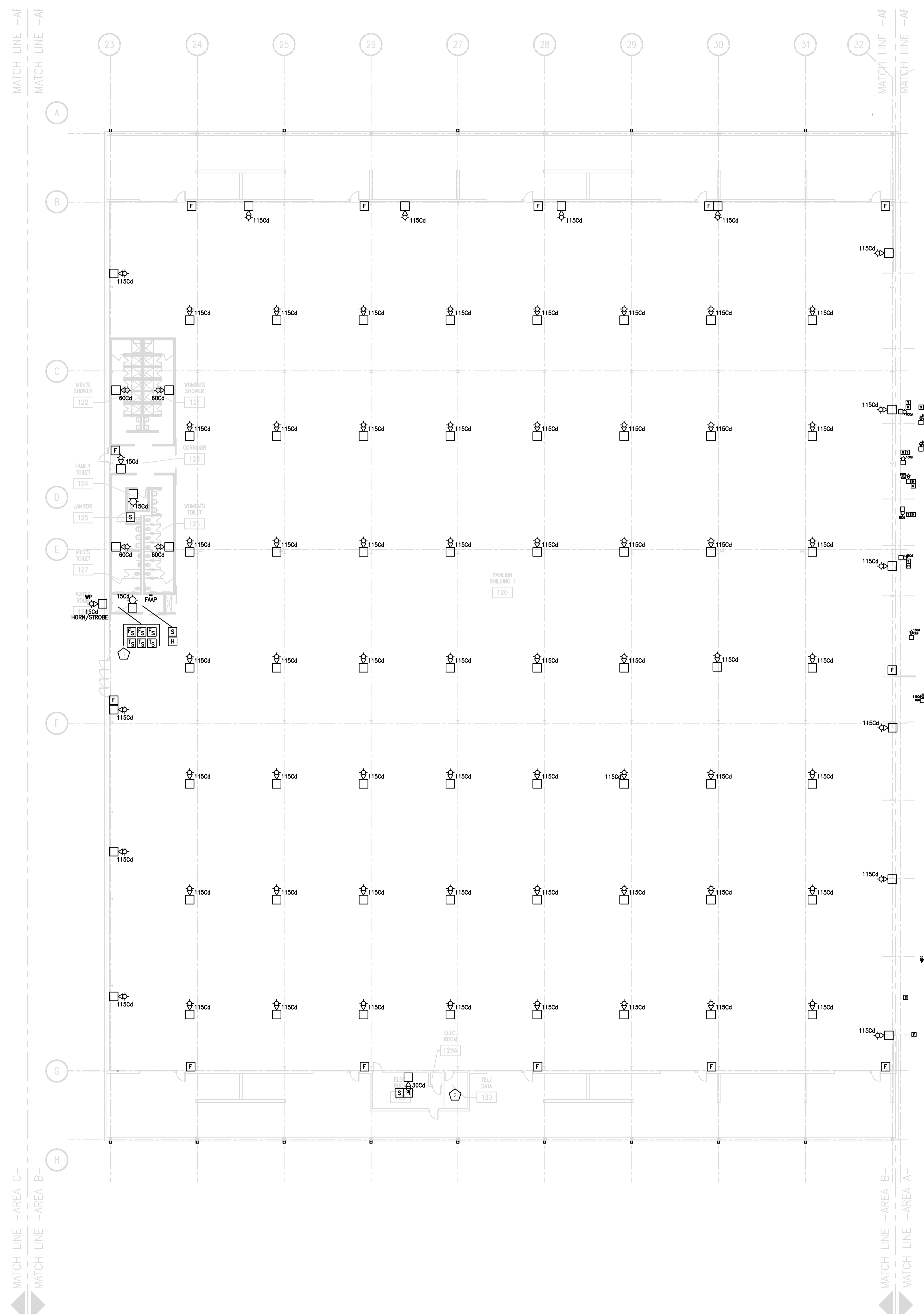
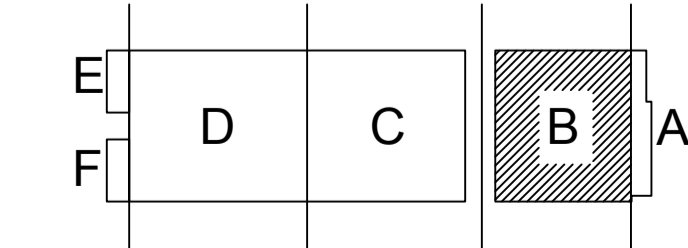
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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
SYSTEMS PLAN  
AREA B - BUILDING 1**

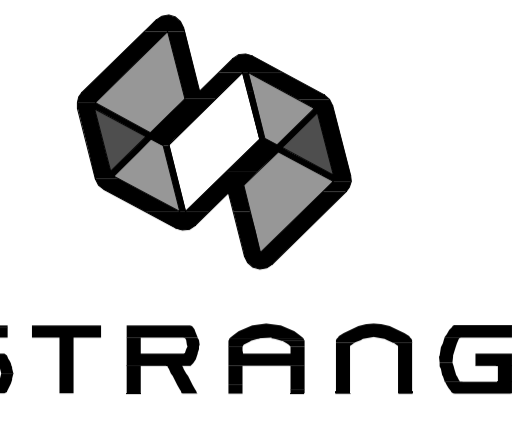
SHEET NO.  
**ES201B**



**FIRST FLOOR SYSTEMS PLAN - AREA B**  
SCALE: 1/16" = 1'-0"

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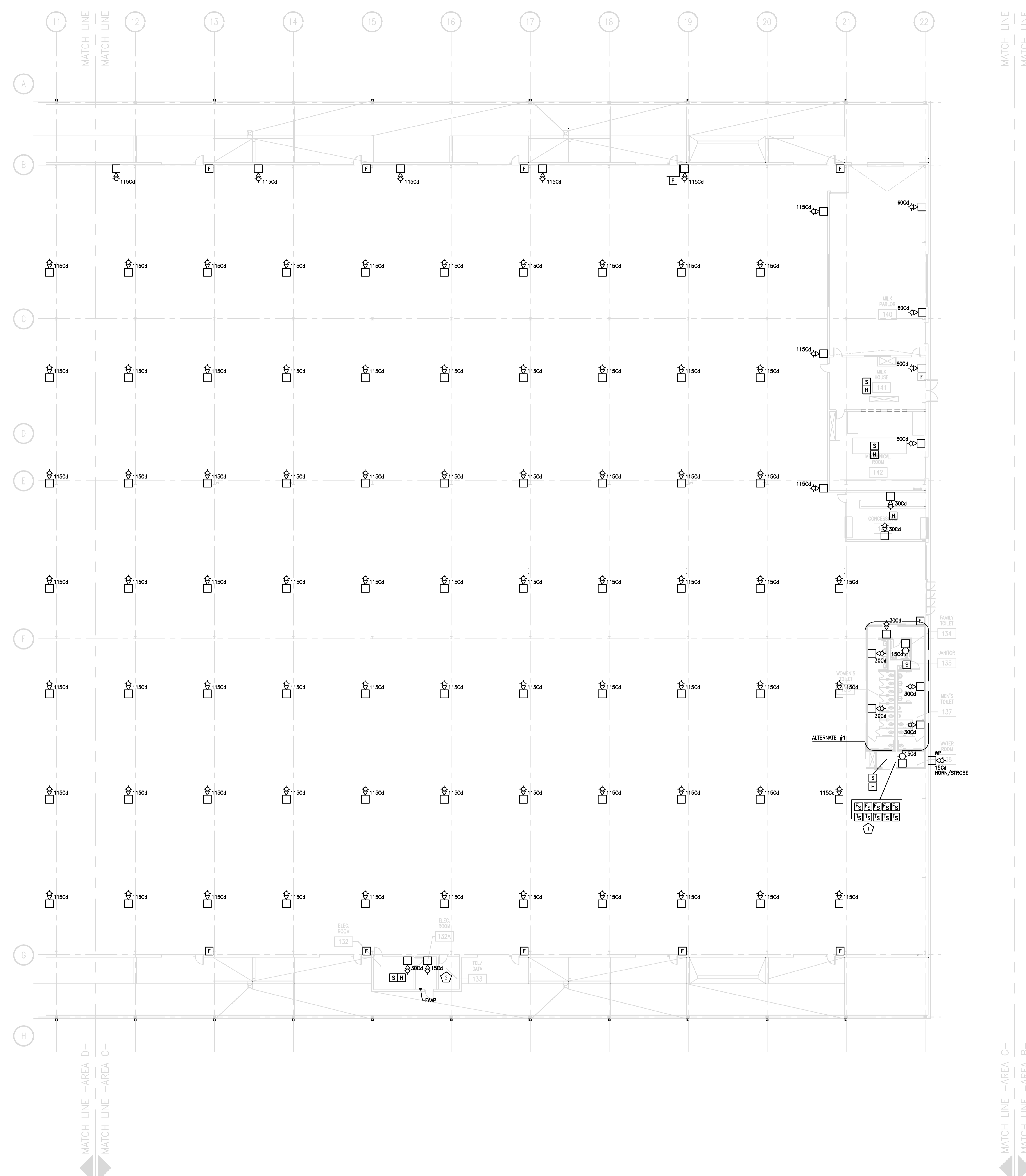


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

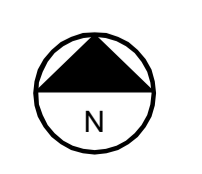
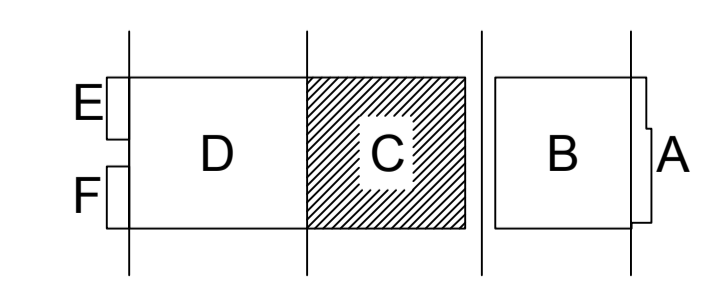
STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL SPEAKER/STROBES ARE SURFACE MOUNTED TO UNISTRUIT UNLESS LOCATED ON WALL.
2	ALL FIRE ALARM SYSTEM EQUIPMENT IN PAVILION BUILDING 131 MUST BE WATERPROOF.
3	ALL FIRE ALARM EQUIPMENT TO BE FED FROM PANEL LEM-C.
4	ALTERNATE #1: ADD ALTERNATE - INTERIOR BUILD OUT OF FAMILY TOILET 134, JANITOR 135, WOMEN'S TOILET 136, AND MEN'S TOILET 137 (FLOOR SLAB AND UNDER FLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK)

PLAN - SPECIFIC NOTES	
1	QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES TO BE COORDINATED WITH SPRINKLER CONTRACTOR.
2	REFER TO SHEET E301 FOR EQUIPMENT LOCATED IN ROOM.



**FIRST FLOOR SYSTEMS PLAN - AREA C**  
SCALE: 1/16" = 1'-0"



KEY PLAN

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PROJECT NO.	2013027_02
PROJECT TITLE	

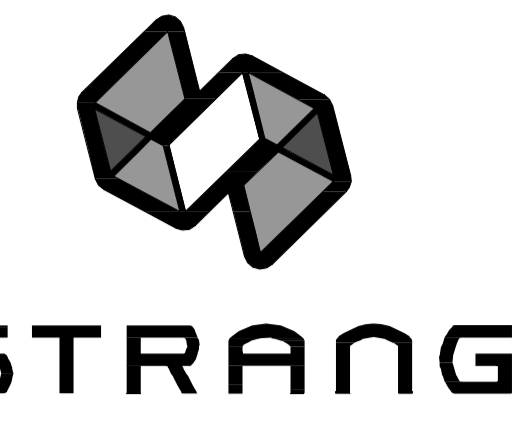
**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR SYSTEMS PLAN  
AREA C - BUILDING 2**

SHEET NO.  
**ES201C**

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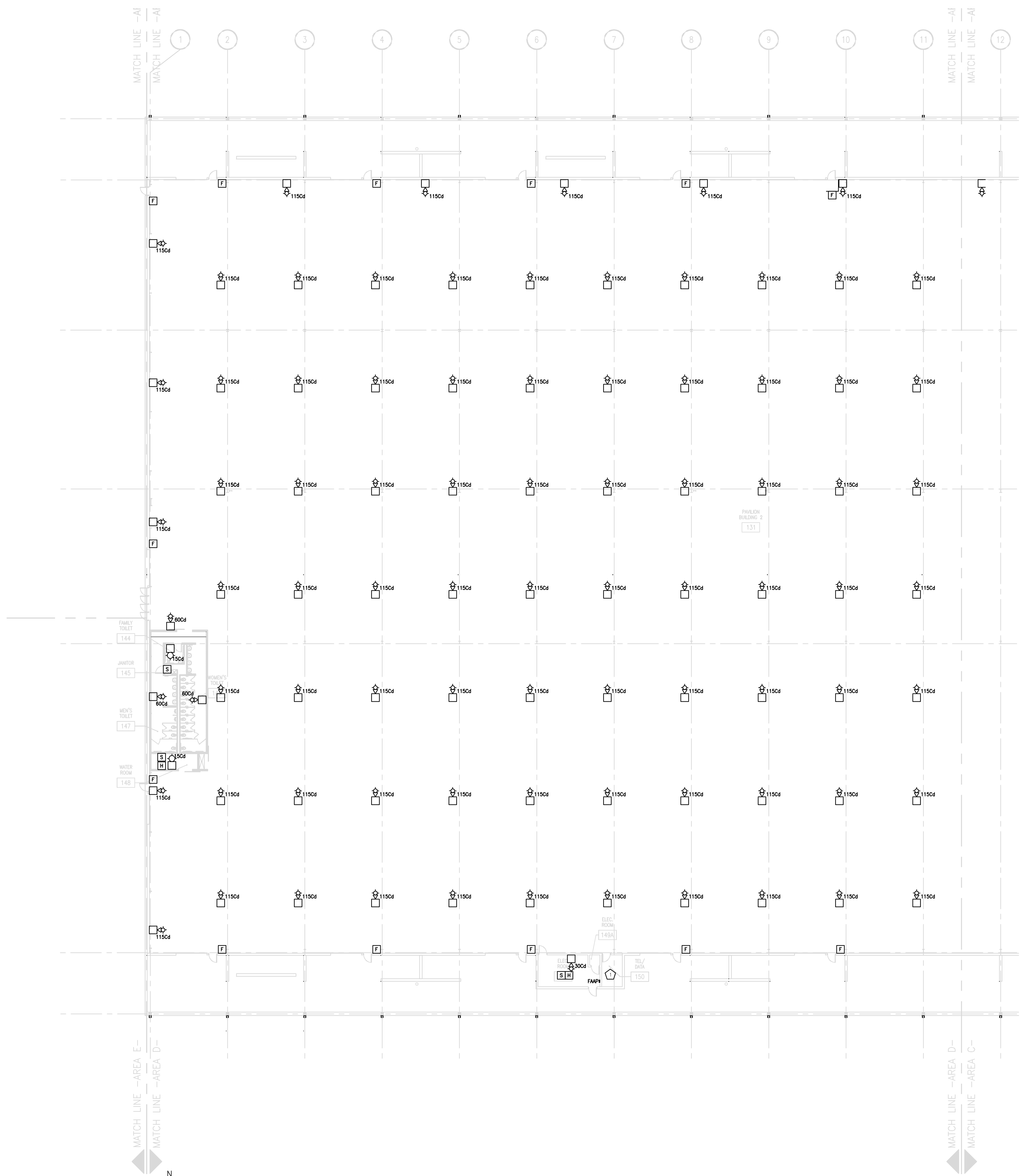


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

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8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
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F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALL SPEAKER/STROBES ARE SURFACE MOUNTED TO UNISTRUT UNLESS LOCATED ON WALL.
2	ALL FIRE ALARM SYSTEM EQUIPMENT IN PAVILION BUILDING 131 MUST BE WATERPROOF.
3	ALL FIRE ALARM EQUIPMENT TO BE FED FROM PANEL LEM-D.

PLAN - SPECIFIC NOTES	
1	REFER TO SHEET ES01 FOR EQUIPMENT LOCATED IN ROOM.



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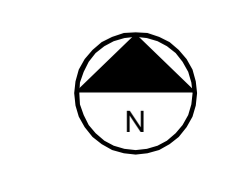
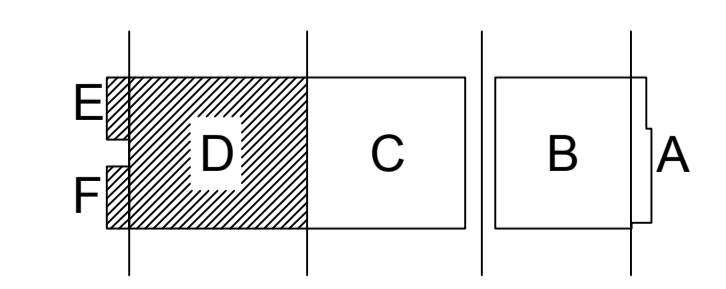
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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

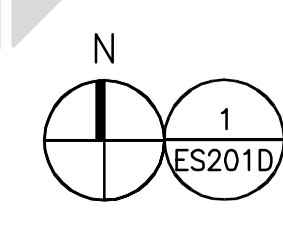
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
SYSTEMS PLAN  
AREA D - BUILDING 2**

SHEET NO.  
**ES201D**

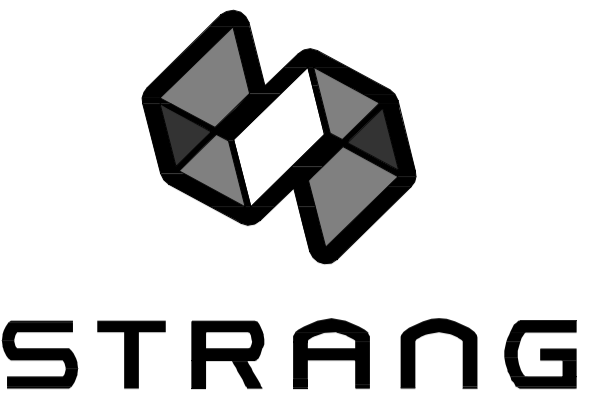


KEY PLAN



**FIRST FLOOR SYSTEMS PLAN - AREA D**  
SCALE: 1/16" = 1'-0"

CARLOS RUZ 2013.10.27 2:27 PM K:\2013027\_02-ES201D.DWG



ARCHITECTURE  
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INTERIOR DESIGN

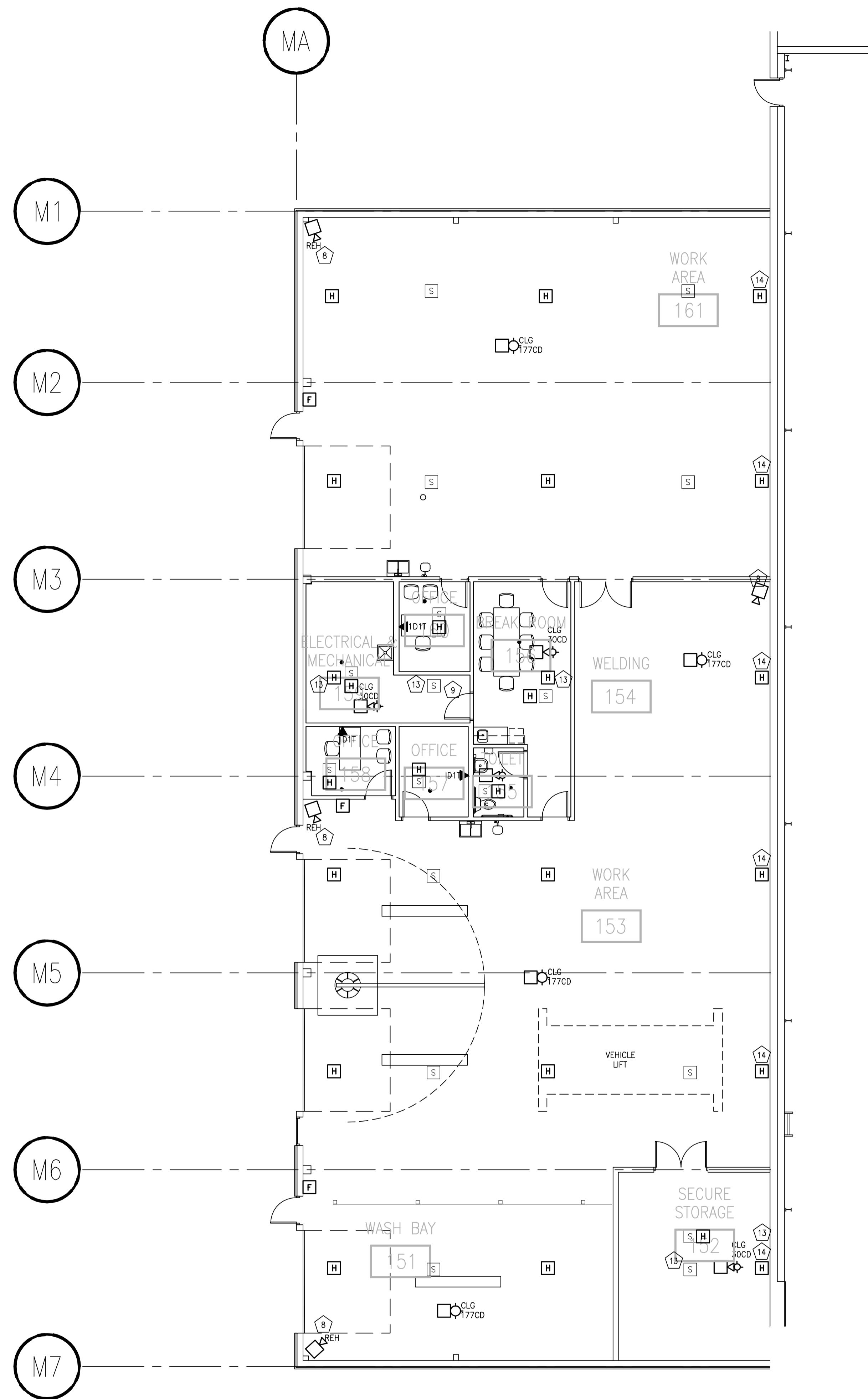
STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

BUILDING E GENERAL NOTES

- ALTERNATE BID 5: DELETE ALL WORK IN BUILDING 'E' EXCEPT:  
 -INSTALLATION OF PANEL LE AND TRANSFORMER TE  
 1 -FIRE ALARM INITIATION AND NOTIFICATION DEVICES IN 161,154,153,151 AND ABOVE INTERIOR ROOMS (NOT WITHIN INTERIOR ROOMS)  
 -EXTERIOR LIGHTING  
 -EXIT SIGNS AND FIXTURES IN 161,154,153,151 CIRCUITED TO PANEL HEM.

BUILDING E SPECIFIC  
LIGHTING/POWER/SYSTEMS NOTES

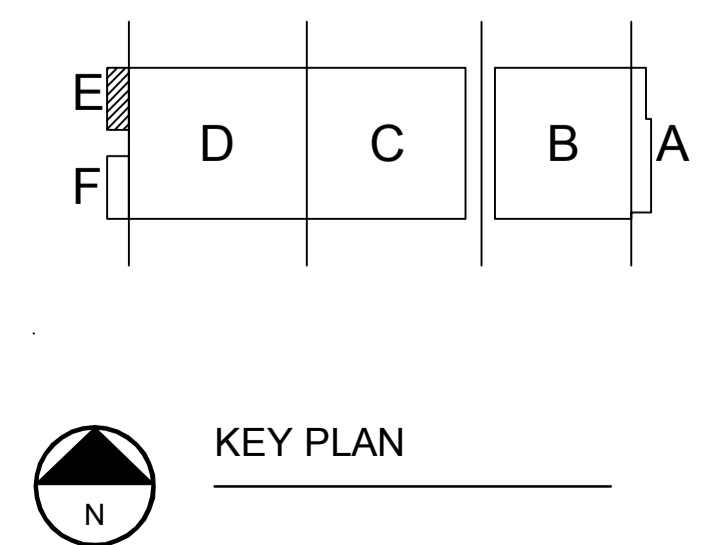
#	PLAN NOTE
1	ROUTE 3/4" CONDUIT FROM OS-1 ALARM ON WALL TO OS-1 PIT UNDER SLAB. COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
2	EXTERIOR WALL MOUNT SO JUNCTION BOX IS CENTERED 1' ABOVE OH DOOR.
3	COORDINATE HEIGHT AND TYPE OF DOOR OPERATOR POWER CONNECTION WITH DOOR OPERATOR SUPPLIER. PROVIDE BACKBOX AT 42" AFF FOR OH DOOR CONTROL BUTTON STATION BY OTHERS. COORDINATE BOX SIZE WITH DOOR OPERATOR SUPPLIER. ROUTE 1/2" CONDUIT TO LOCATION OF DOOR OPERATOR. COORDINATE LOCATION WITH DOOR OPERATOR SUPPLIER. PROVIDE DISCONNECTING MEANS. COORDINATE WITH GC.
4	PROVIDE 12GA CORD PENDANT (NOT A CORD REEL) FOR 208V AND 120V RECEPTACLE FROM CEILING IN THIS LOCATION. PENDANT BOX SHALL HAVE A DUPLEX 120V RECEPTACLE ON ONE SIDE AND A SIMPLEX 208V RECEPTACLE ON THE OTHER SIDE. COORDINATE DEVICE TYPE WITH THAT SHOWN ON DRAWINGS. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
5	PROVIDE CEILING OR BEAM MOUNTED RECEPTACLE FOR CORD REELS AS SHOWN. ADJUST REEL STOP SO CORDS HANG AT 7' AFF. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
6	PROVIDE FIXED 12GA CORD PENDANT FOR 208V PENDANT CORD/PLUG FROM CEILING IN THIS LOCATION. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
7	COORDINATE REQUIRED DISCONNECT LOCATION WITH AHJ. IF ALLOWED, THE PREFERRED OPTION IS TO LOCATE DISCONNECT ADJACENT TO OR ON UNIT SERVED. HOWEVER, IF THE AHJ'S INTERPRETATION OF 'READILY ACCESSIBLE' REQUIRES THAT THE DISCONNECT BE LOCATED WITHIN REACH OF THE FLOOR, LOCATE DISCONNECT ON THE NEAREST WALL.
8	CEILING MOUNT OR WALL MOUNTED WITHIN 12" OF CEILING.
9	4'X8' UL LISTED FIRE RATED PLYWOOD PANEL AND 12 SPACE WALL MOUNTED RACK. PROVIDE PATCH PANELS AND WIRE MANGEMENT AS REQUIRED IN SPECIFICATIONS AND ON E402 TELECOMMUNICATIONS RISER DIAGRAM.
10	PADLOCKABLE NON FUSED DISCONNECT WIRED AHEAD OF PANEL B TO ALLOW LOOKOUT OF ENTIRE PANEL B POWER.
11	PROVIDE ELECTRICALLY HELD 3-POLE CONTACTOR IN OR ADJACENT TO PANEL B. CONTACTOR SHALL BE WIRED TO SWITCH IN OFFICE 110. CONTACTOR SHALL HAVE NO EXTERNAL CONTROLS OR OVERRIDE AND SHALL BE PROVIDED WITH A PADLOCKABLE COVER. IF A CONTACTOR INTEGRAL TO THE PANEL IS PROVIDED, THE PANEL COVER SHALL BE PADLOCKABLE.
12	PROVIDE FIXED 12GA CORD PENDANT FOR RECEPTACLE FROM CEILING IN THIS LOCATION. HANG RECEPTACLE DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. PROVIDE DEVICE AS SHOWN ON DRAWINGS. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
13	LOCATED ON MAIN SPACE CEILING, ABOVE ROOM.
14	LOCATE WITHIN 3' OF CEILING PEAK.



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REVISIONS	ADDENDUM #1 8/5/13
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PROJECT NO.	2013027_02
PROJECT TITLE	

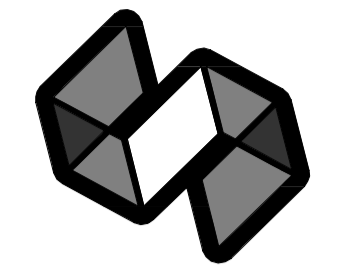
ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



SHEET TITLE  
FIRST FLOOR  
SYSTEMS PLAN  
AREA E - BUILDING 2

SHEET NO.  
ES201E

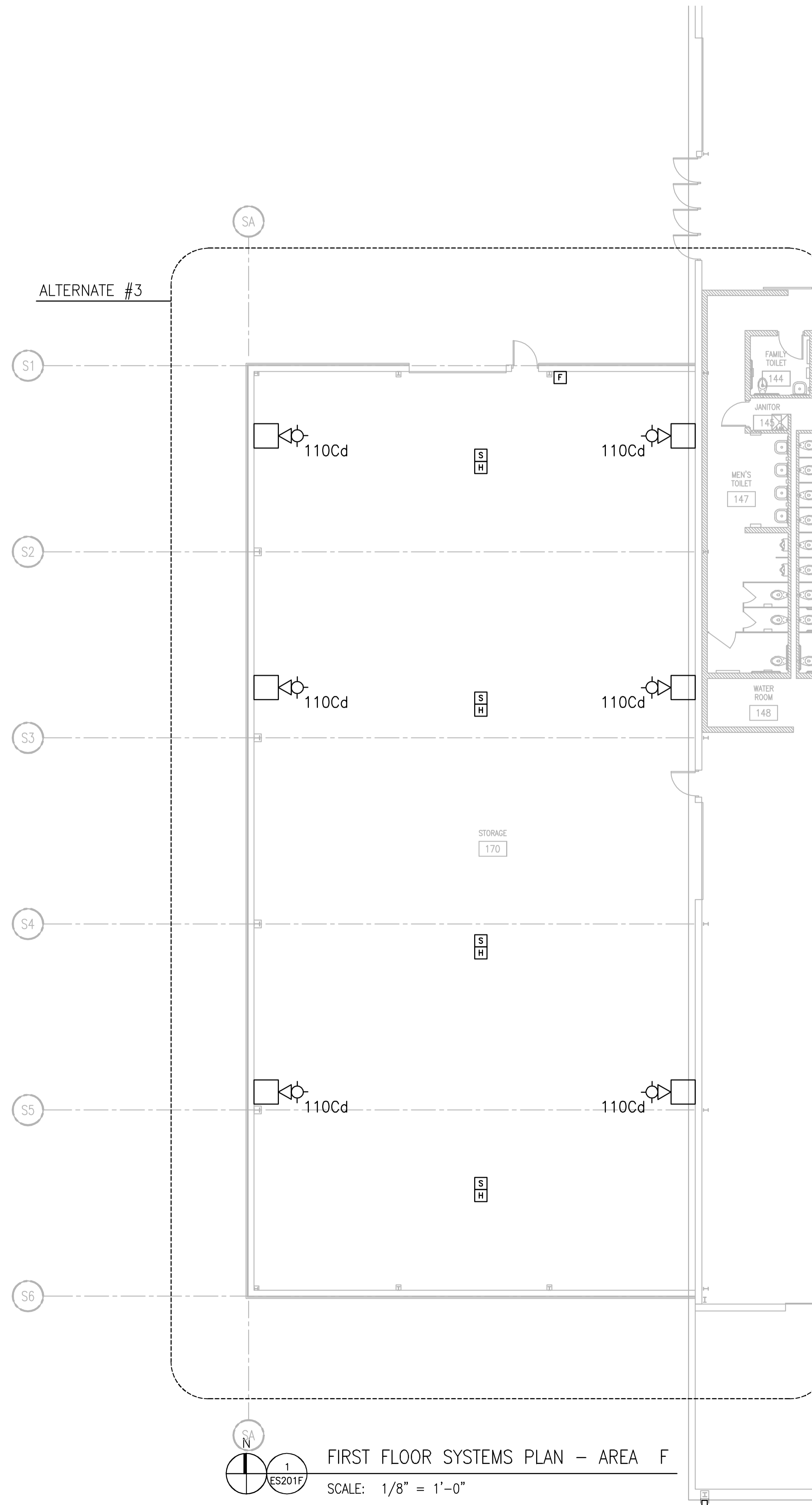


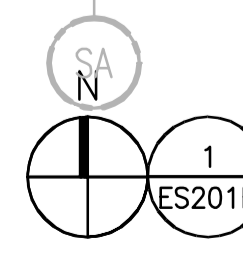
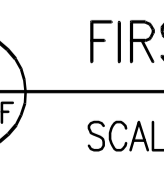
STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

GENERAL PLAN NOTES	
1	ALTERNATE #3: ADD ALTERNATE - AREA F

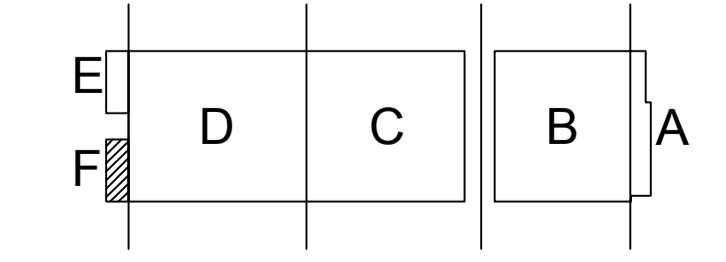





**FIRST FLOOR SYSTEMS PLAN - AREA F**  
 SCALE: 1/8" = 1'-0"

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FILE NAME	2013027_02-ES201F.DWG
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DRAWN	KK
CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



 **KEY PLAN**

SHEET TITLE  
**FIRST FLOOR SYSTEMS PLAN  
AREA F BUILDING 2**

SHEET NO.  
**ES201F**

CARLOS RUZ 2009.09.30 2:27 PM K:\20130313027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIVESTOCK AND EXHIBITION HALLDRAWINGS\2013027\_02-ES201F.DWG

#	PLAN - SPECIFIC NOTES
1	ALL P2B FIXTURE ON MEZZANINE IS RELAY 7.
2	EXIT SIGN IS WALL MOUNTED ABOVE DOOR.
3	OWNER TO DECIDE SCENES FOR THE LOW VOLTAGE SWITCHING.

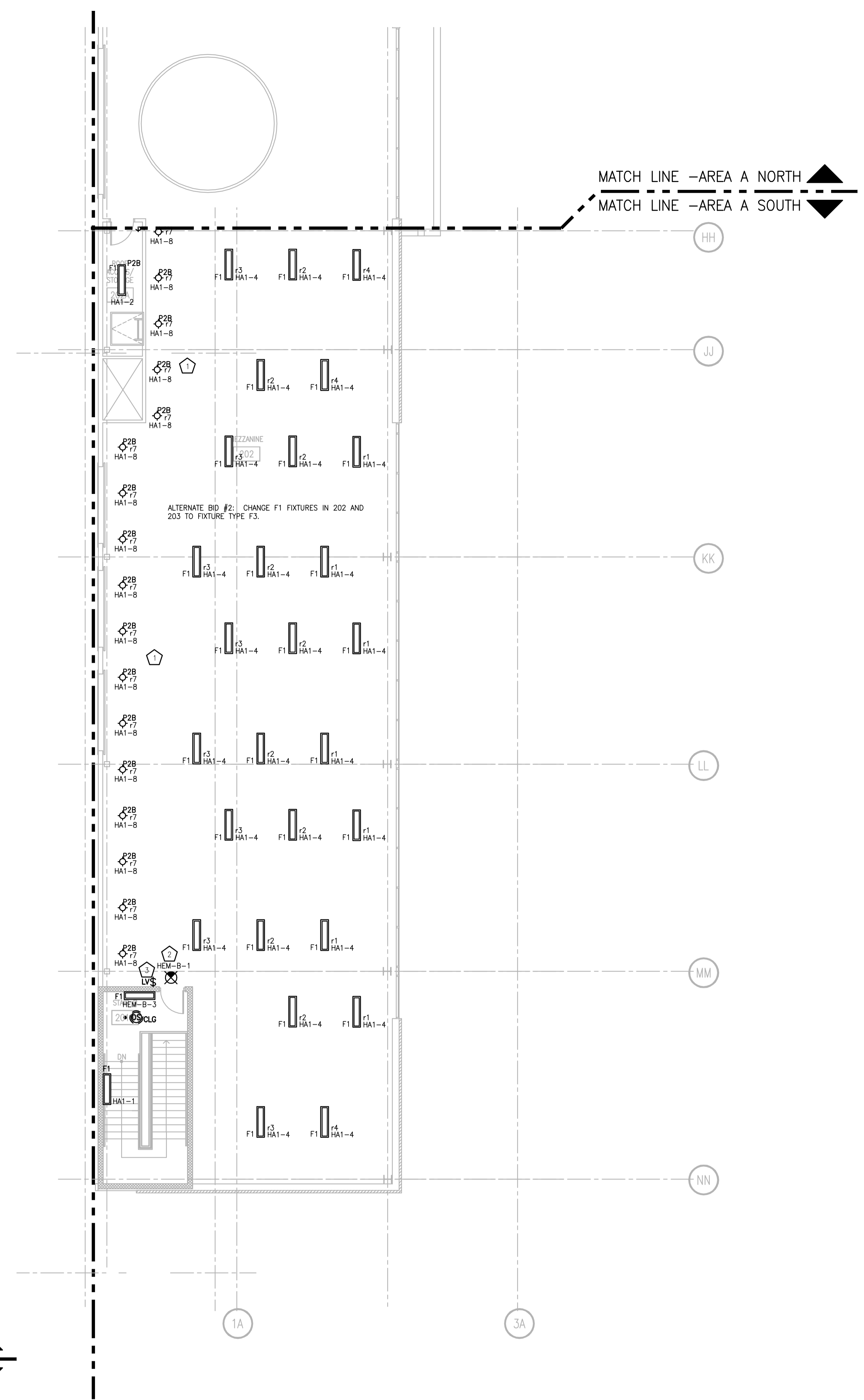
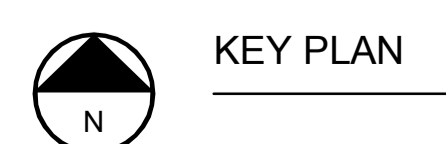
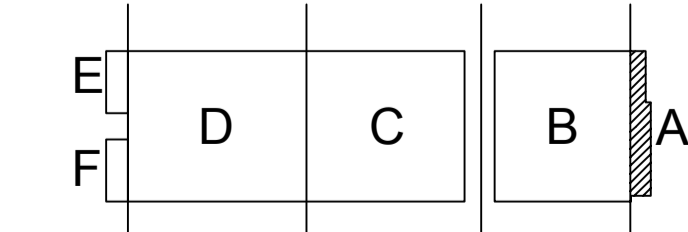
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FILE NAME	2013027_02_EL202A.DWG
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CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

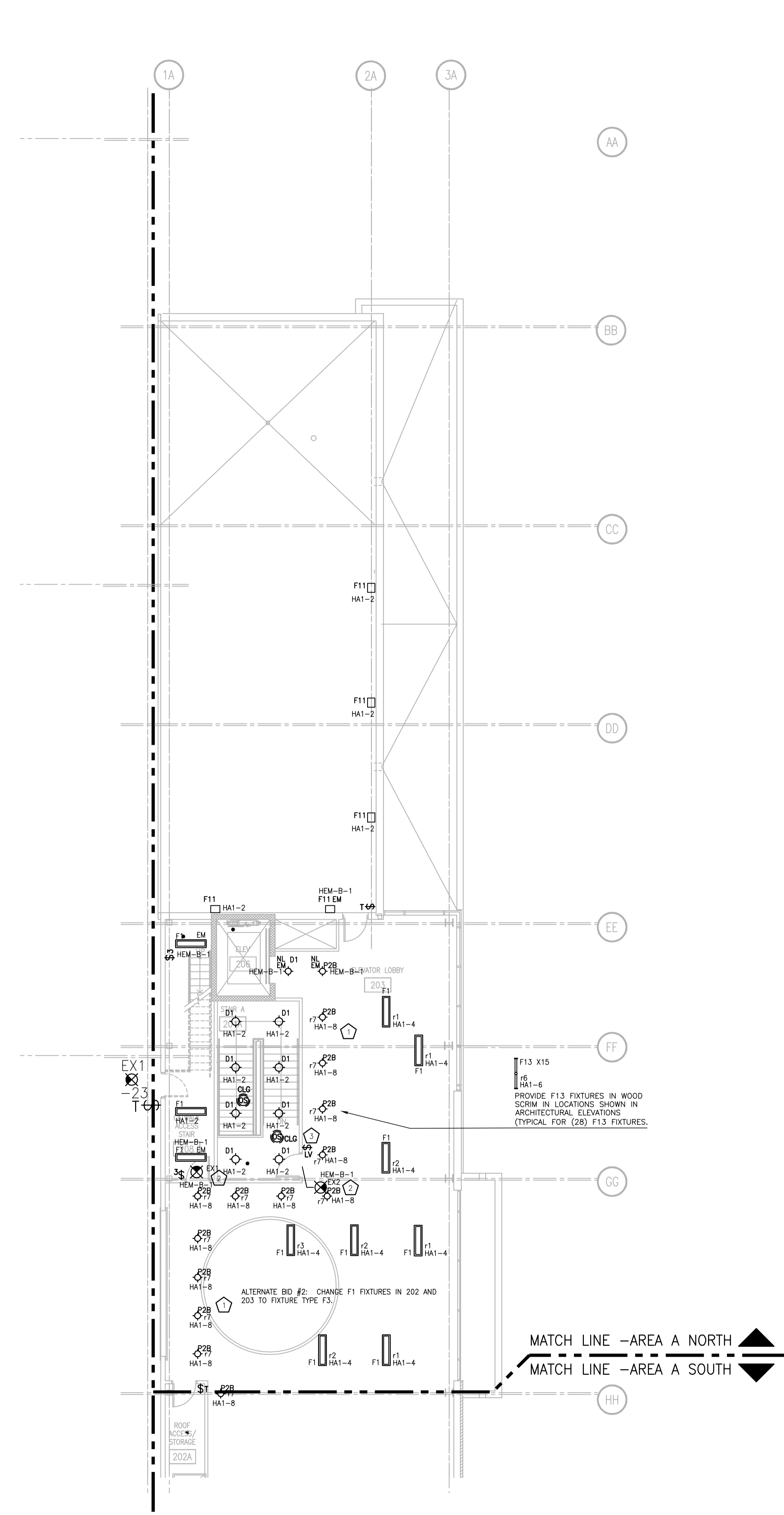
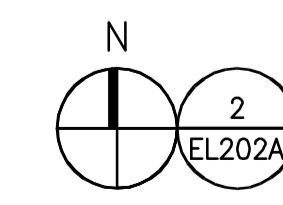
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
LIGHTING  
FLOOR PLAN - AREA A**

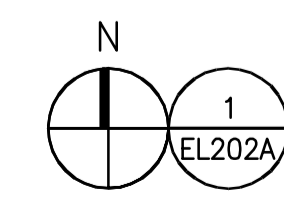
SHEET NO.  
**EL202A**



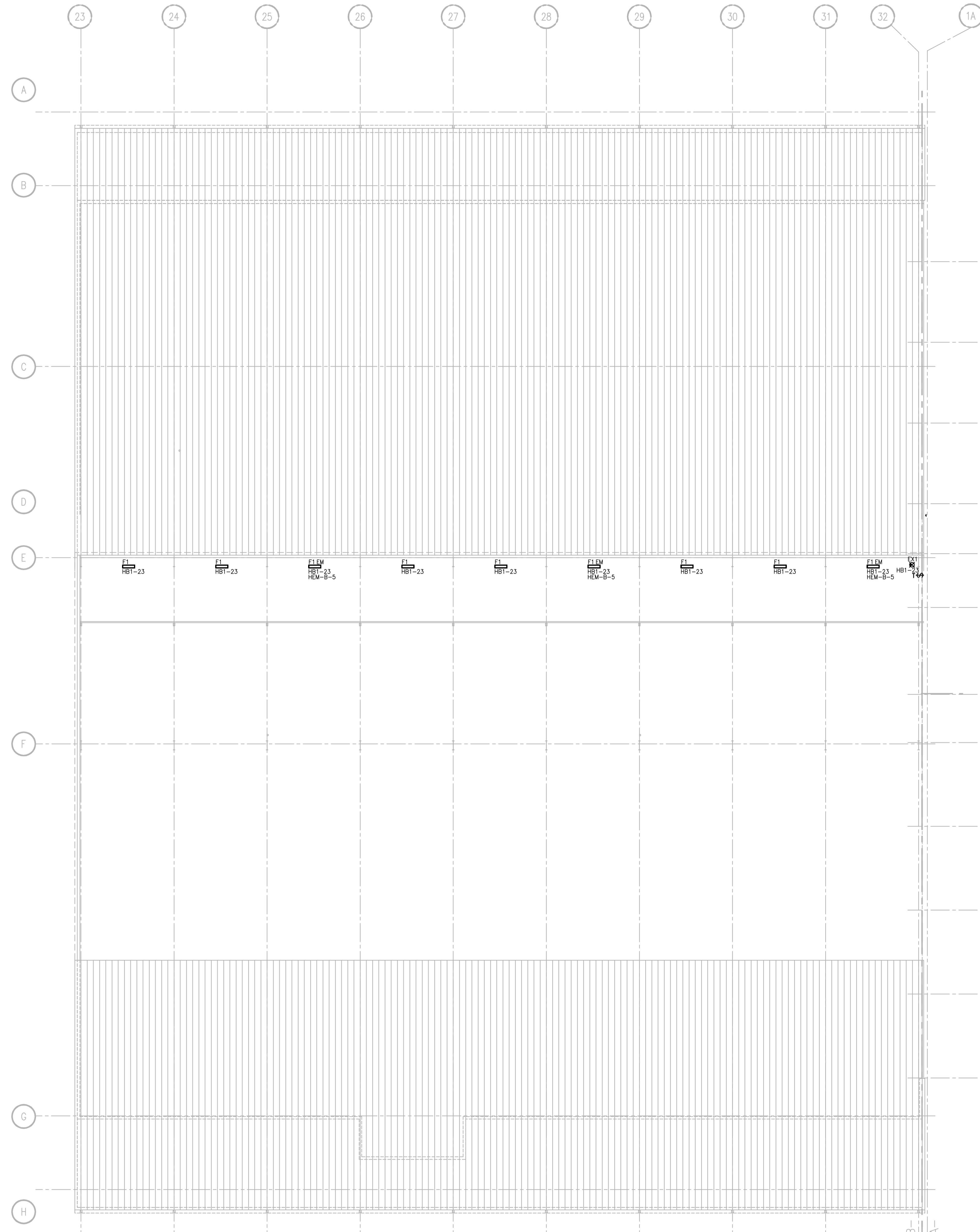
MEZZANINE LIGHTING FLOOR PLAN - AREA A - SOUTH



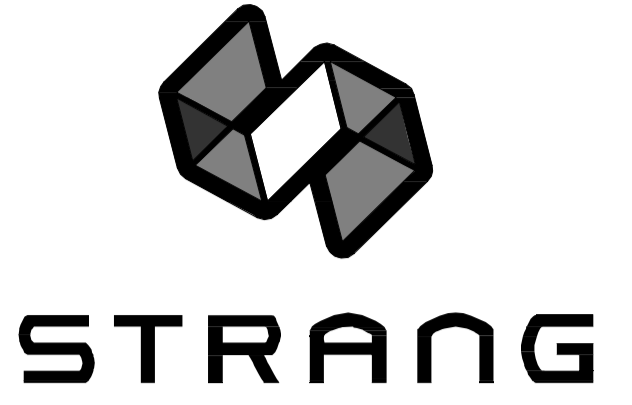
MEZZANINE LIGHTING FLOOR PLAN - AREA A - NORTH



CARLOS RUZ 2009.06.30 2:27 PM K:\2013027\_02 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - EL202A.DWG



GENERAL PLAN NOTES	
1	LOCATE ALL LIGHTING TO ACCOMMODATE MECHANICAL EQUIPMENT.



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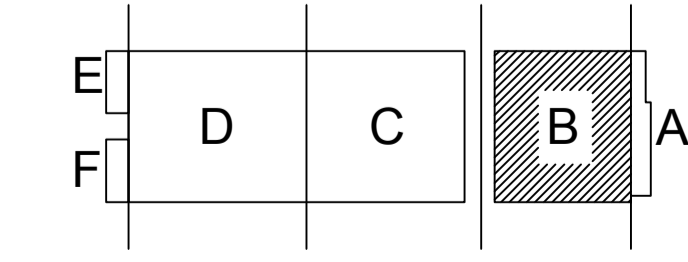
DRAWN	KK
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DATE	10-29-13
PROJECT NO.	2013027_02

PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
LIGHTING PLAN  
AREA B - BUILDING 1**

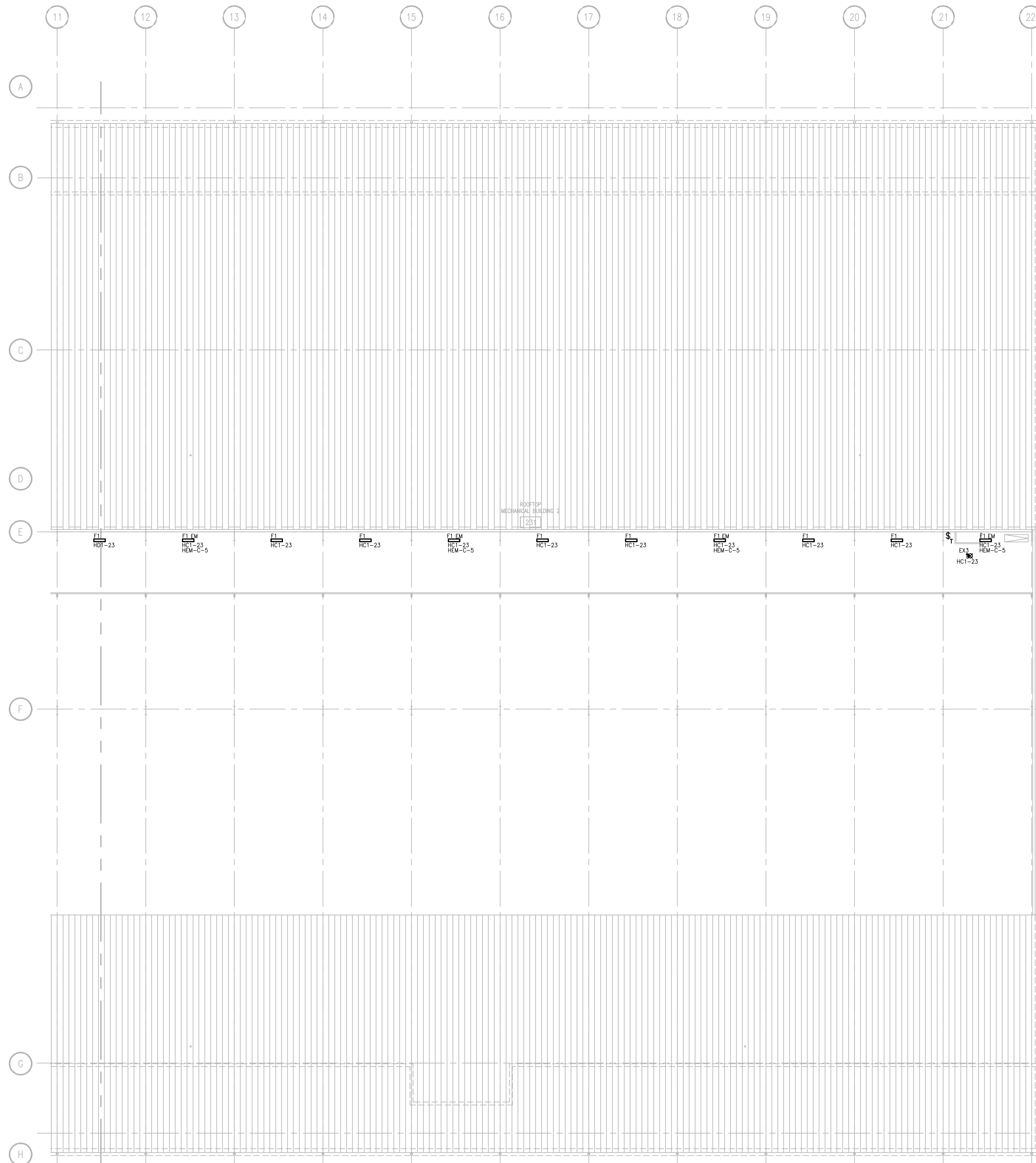
SHEET NO.  
**EL202B**



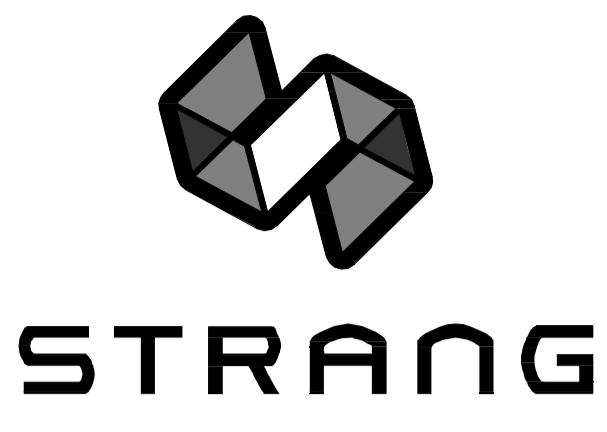
KEY PLAN

MEZZANINE LIGHTING PLAN - AREA B  
SCALE: 1/16" = 1'-0"

CARLOS RUIZ 2009-06-30 2:27 PM K:\2013\3013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIVESTOCK AND EXHIBITION HALLDRAWINGS\2013027\_02-EL202B.DWG



GENERAL PLAN NOTES	
1	LOCATE ALL LIGHTING TO ACCOMMODATE MECHANICAL EQUIPMENT.



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CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02

PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

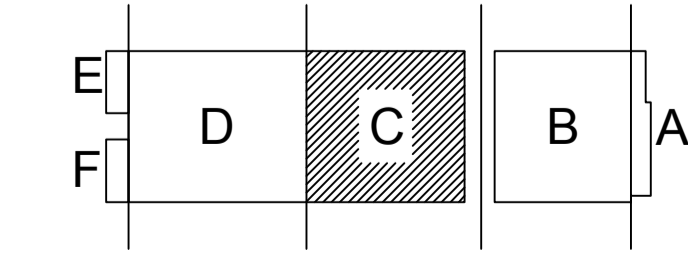
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
LIGHTING PLAN  
AREA C**

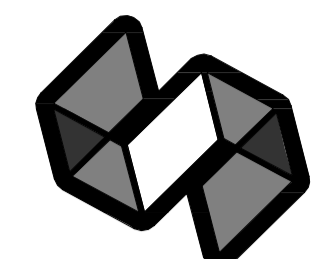
SHEET NO.  
**EL202C**

MATCH LINE - AREA D -  
MATCH LINE - AREA C -

**MEZZANINE LIGHTING PLAN - AREA C**  
SCALE: 1/16" = 1'-0"



CARLOS RUIZ 2013.03.13027 - ALLIANT ENERGY CENTER LIVES TOOK & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER - LIVES TOOK AND EXHIBITION HALL DRAWINGS 2013027\_02-EL202C.DWG

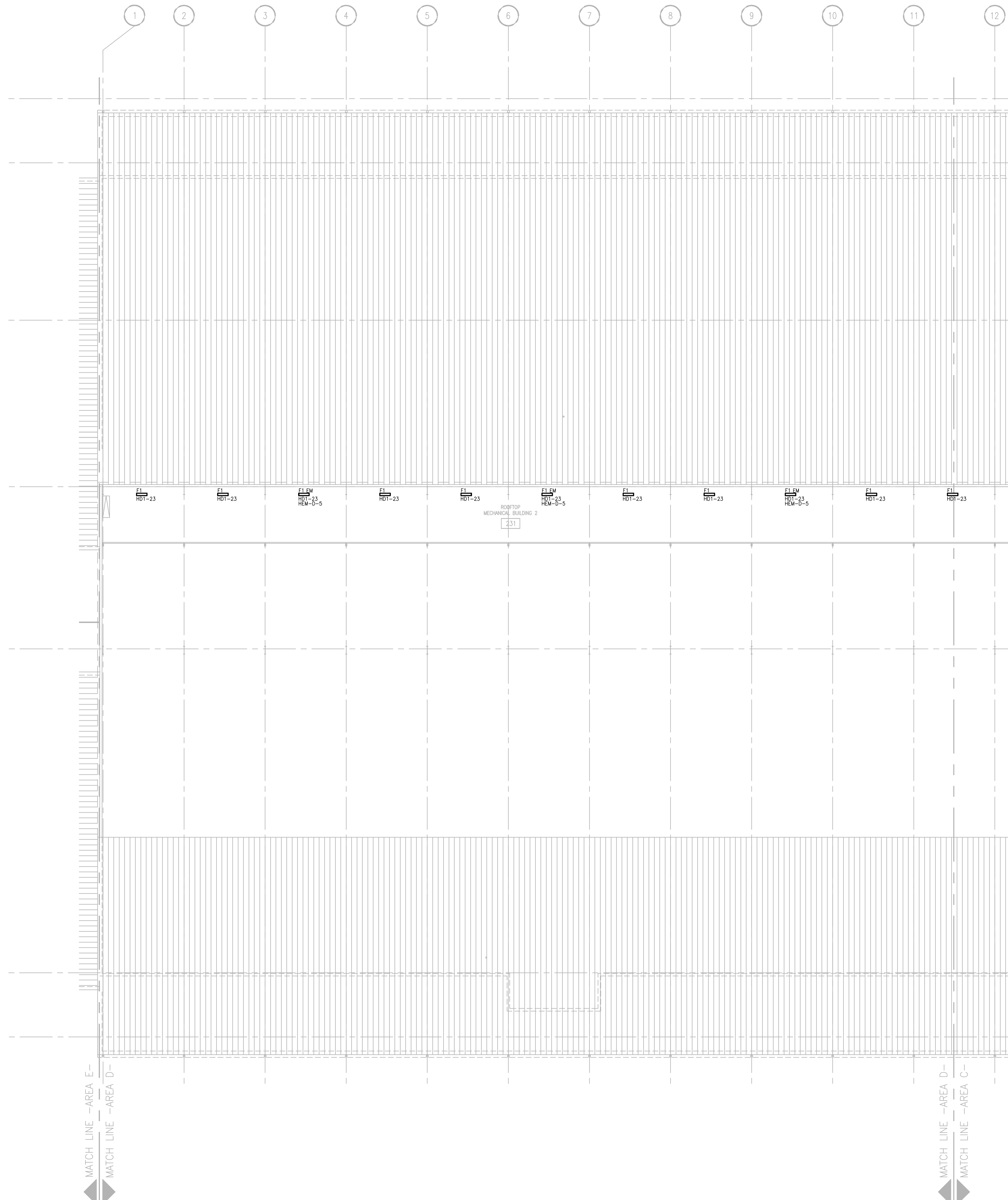


**STRANG**

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GENERAL PLAN NOTES	
1	LOCATE ALL LIGHTING TO ACCOMMODATE MECHANICAL EQUIPMENT.



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FILE NAME	2013027_02-EL2020.DWG
REVISIONS	

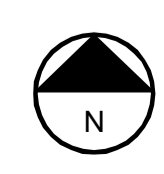
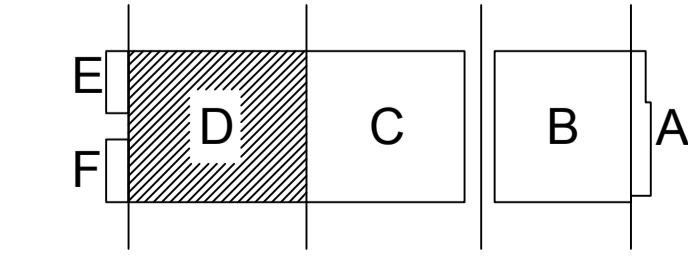
DRAWN	KK
CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
AREA D - BUILDING 2  
BID # 313072**

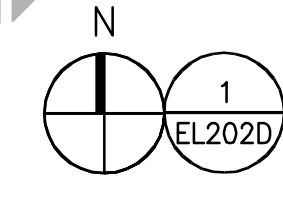
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
LIGHTING PLAN  
AREA D - BUILDING 2**

SHEET NO.  
**EL202D**



KEY PLAN



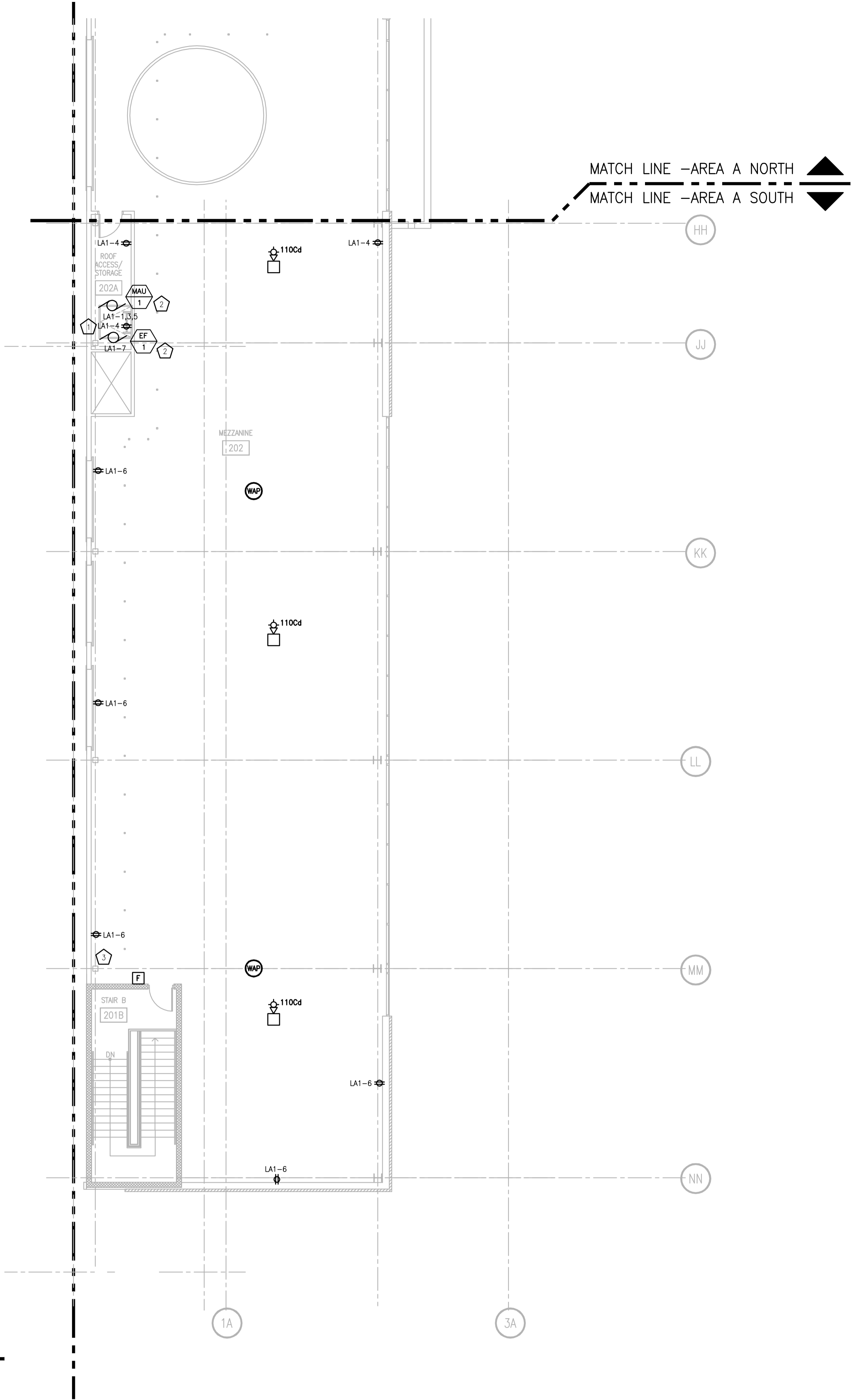
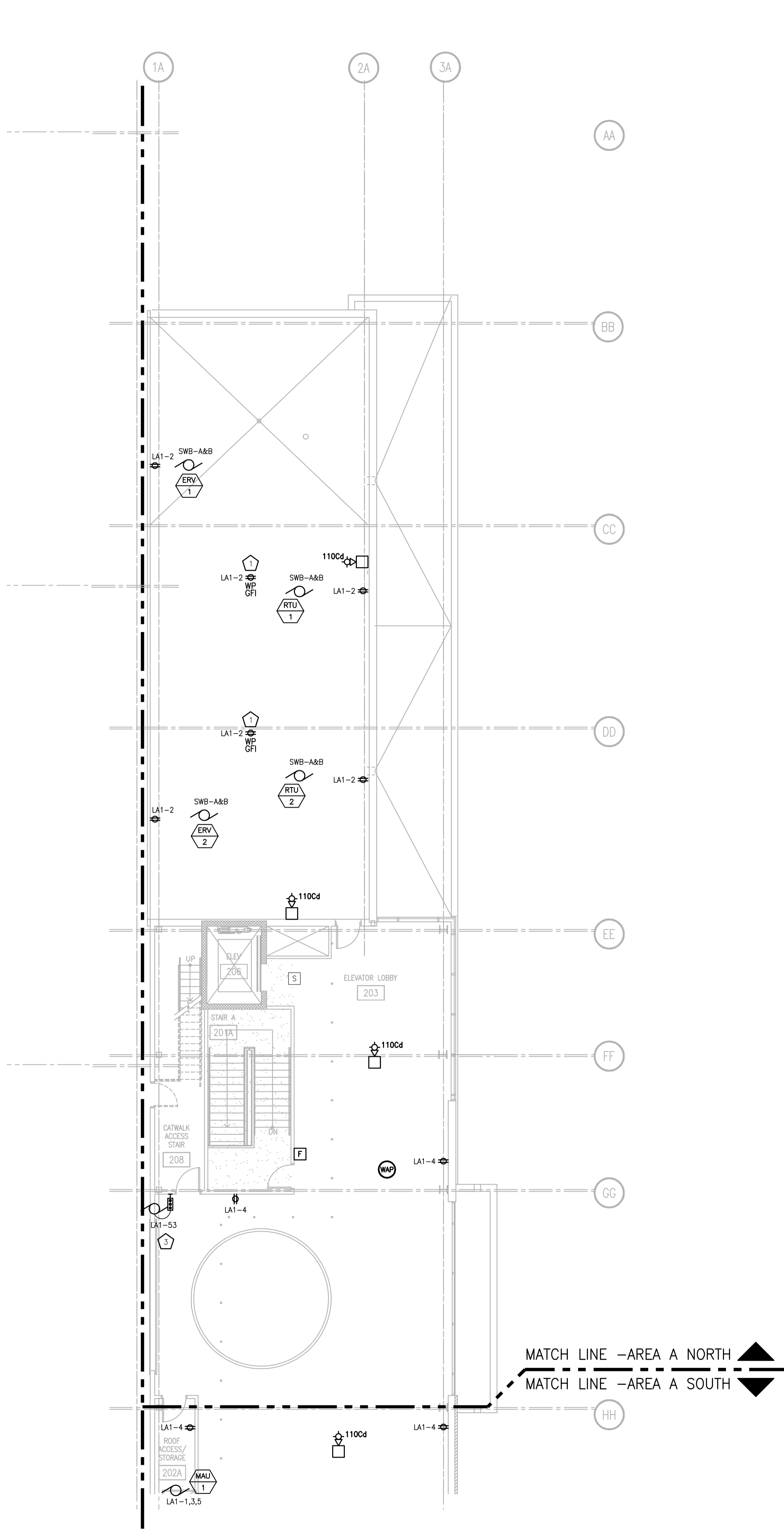
**MEZZANINE LIGHTING PLAN - AREA D**  
SCALE: 1/16" = 1'-0"

CARLOS RUIZ 2013.10.29 2:27 PM K:\2013\313072 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIVESTOCK AND EXHIBITION HALLDRAWINGS\2013027\_02-EL2020.DWG



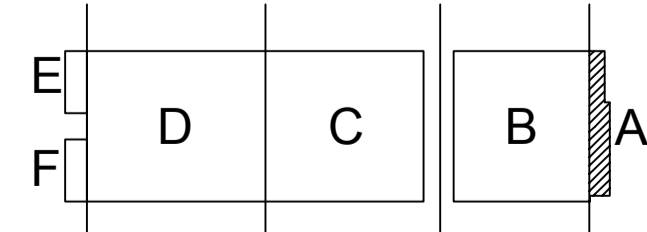
GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN MECHANICAL AREAS TO BE MOUNTED AT 48" AFF.

PLAN - SPECIFIC NOTES	
1	LOCATE ABOVE ROOF TO ACCOMMODATE MECHANICAL EQUIPMENT.
2	MOTORS LOCATED ON ROOF. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
3	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402. LOCATE 18" AFF (MEZZANINE LEVEL FLOOR)



MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A - NORTH  
SCALE: 1/8" = 1'-0"

MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A - SOUTH  
SCALE: 1/8" = 1'-0"



KEY PLAN

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FILE NAME	2013027_02-EP202A.DWG

REVISIONS	DATE	BY
DRAWN	10-29-13	KK
CHECKED		AS
PROJECT NO.	2013027_02	

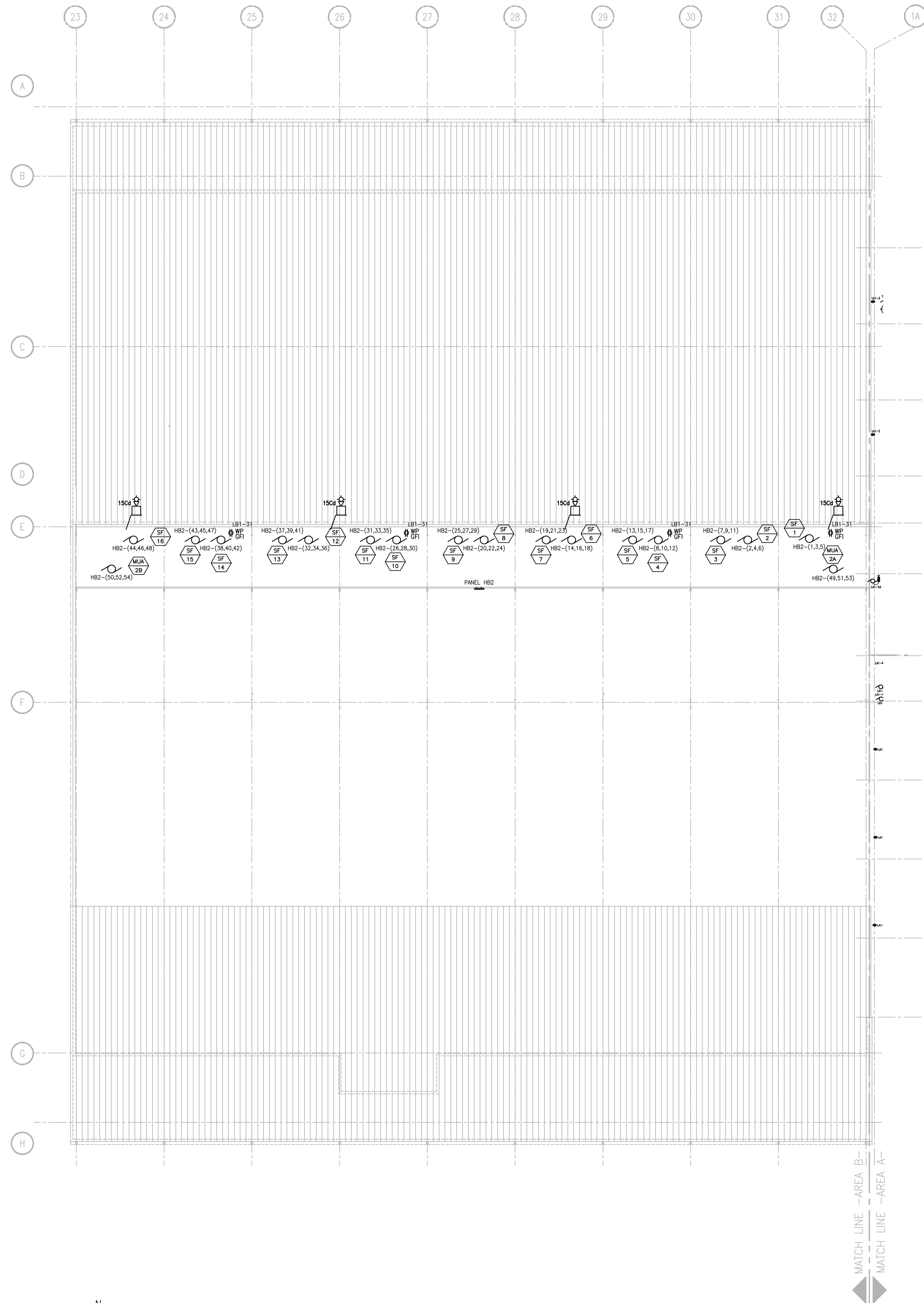
PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

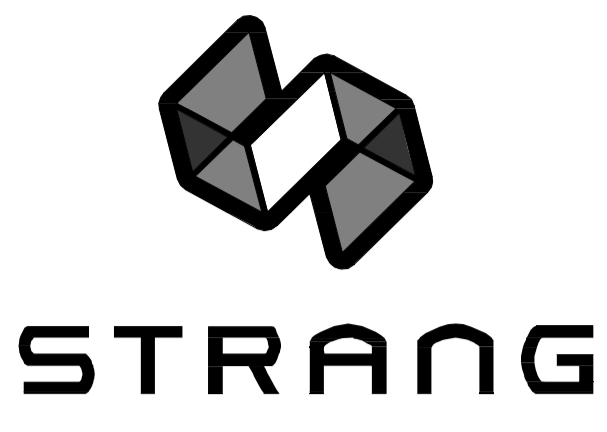
SHEET TITLE  
**MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A**

SHEET NO.  
**EP202A**

CARLOS RUZ 2005-5-30 2:27 PM K:\2013027\_02-EP202A\DRAWINGS\2013027\_02-EP202A.DWG



GENERAL PLAN NOTES	
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.



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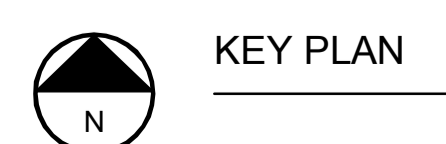
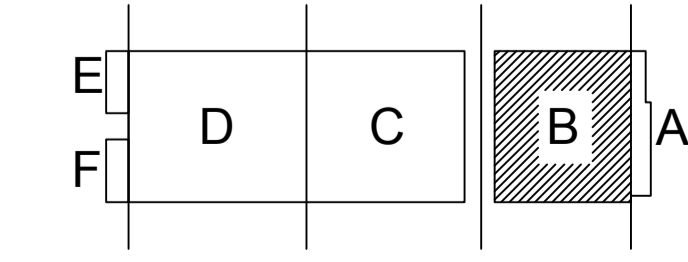
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FILE NAME	2013027_02-EP202B.DWG
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DRAWN	KK
CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

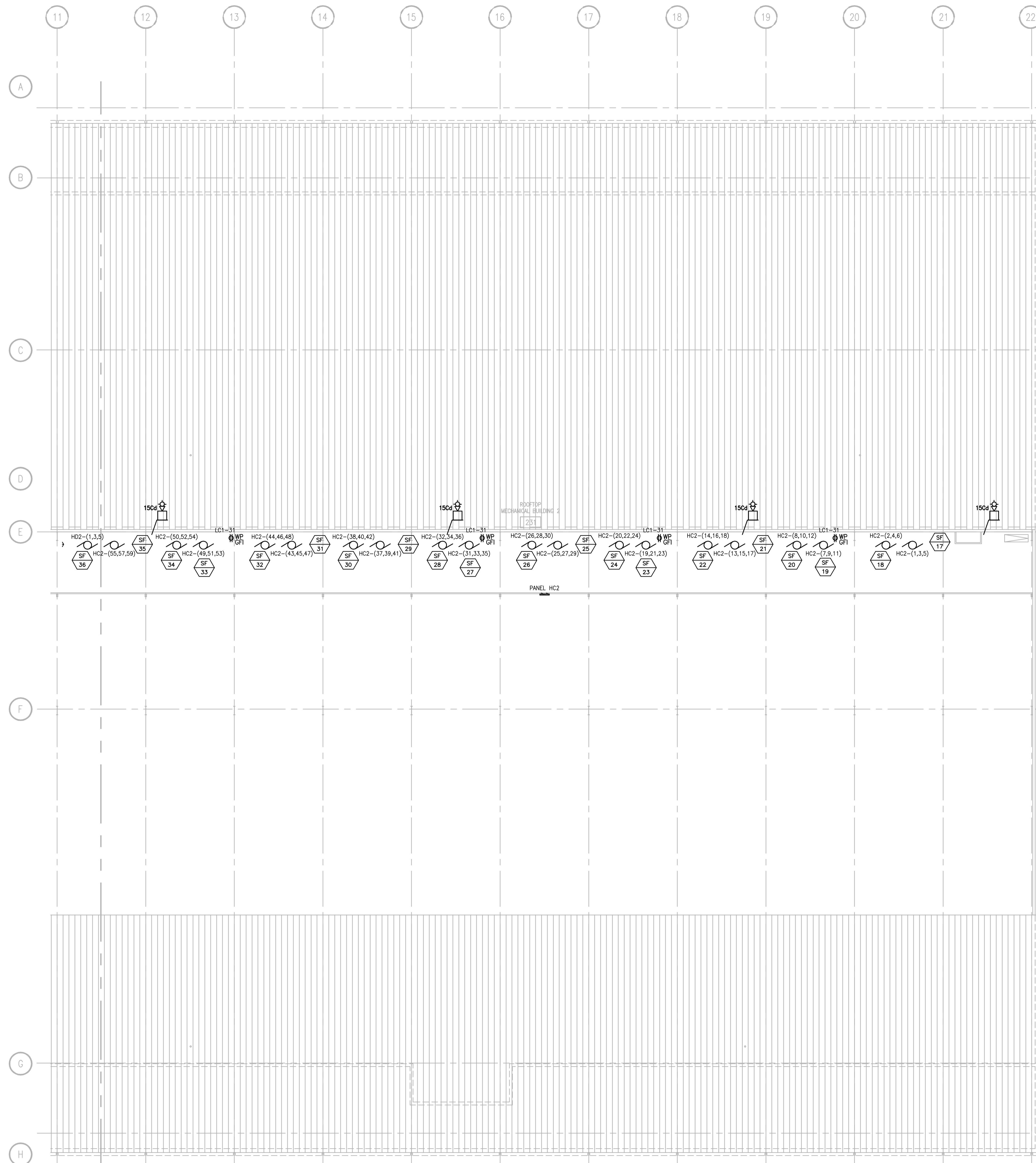
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**MEZZANINE  
POWER/SYSTEMS  
AREA B - BUILDING 1**

SHEET NO.  
**EP202B**

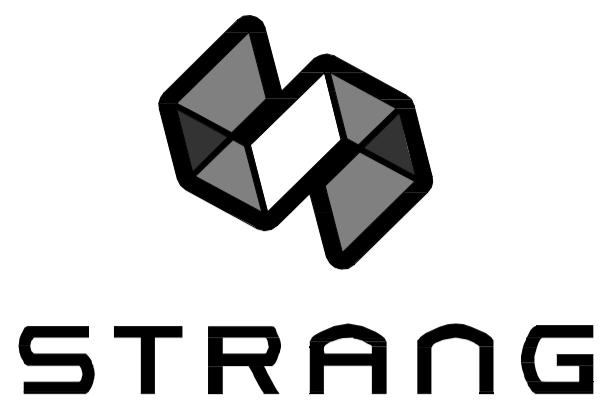


**MEZZANINE POWER/SYSTEMS PLAN - AREA B**  
SCALE: 1/16" = 1'-0"

CARLOS RUIZ 2013.10.29 2:27 PM K:\2013\3013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027\_02-EP202B.DWG



GENERAL PLAN NOTES	
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.



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CARLOS RUIZ 2013.03.13027 - ALLIANT ENERGY CENTER LIVES TOOK & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER LIVES TOOK & EXHIBITION HALLDRAWINGS2013027\_02-EP202C.DWG  
 10/29/13 10:28:13 AM  
 10/29/13 10:28:13 AM  
 10/29/13 10:28:13 AM

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COPYRIGHT	2013
FILE NAME	2013027_02-EP202C.DWG

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DATE	10-29-13
PROJECT NO.	2013027_02

PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS BID # 313072**

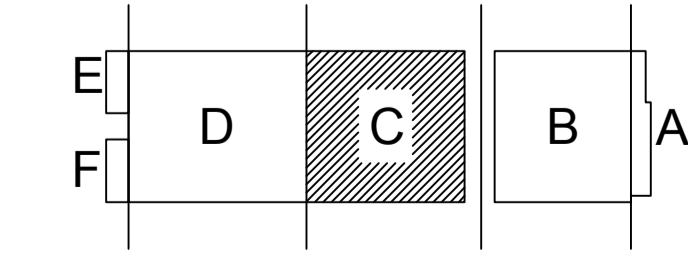
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE POWER/SYSTEMS AREA C - BUILDING 2**

SHEET NO.  
**EP202C**

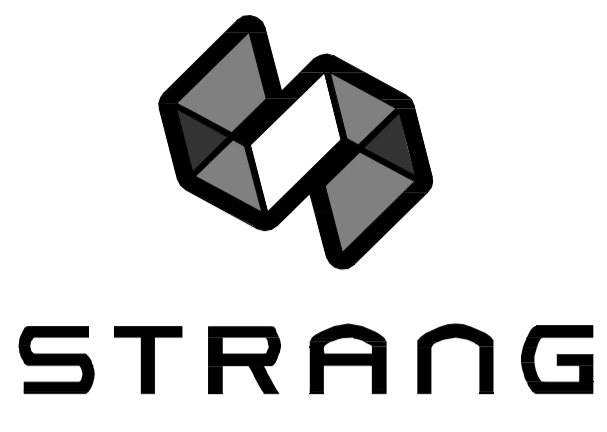
MEZZANINE POWER/SYSTEMS PLAN - AREA C  
SCALE: 1/16" = 1'-0"

MATCH LINE - AREA D -  
MATCH LINE - AREA C -



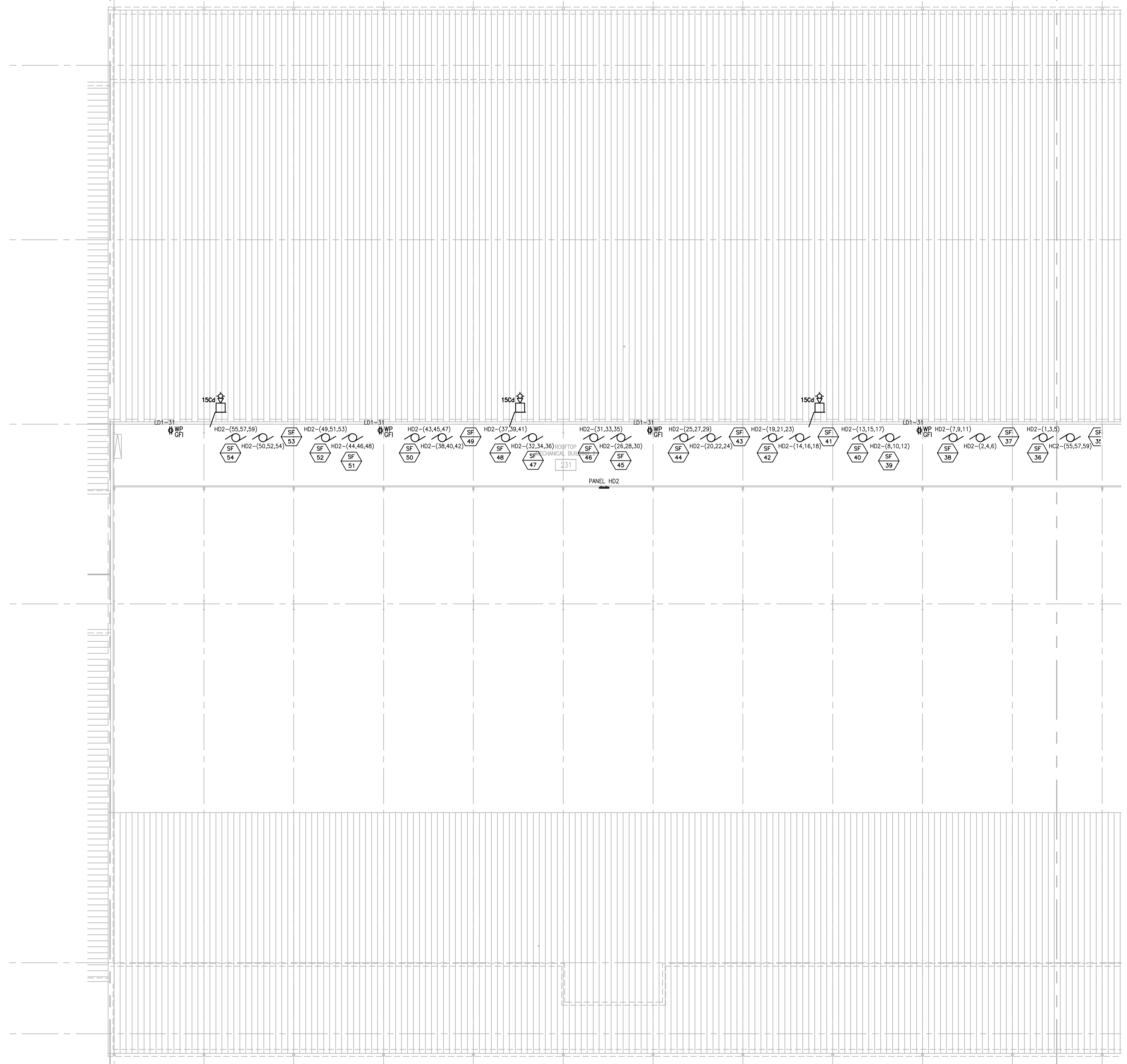
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GENERAL PLAN NOTES	
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.



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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

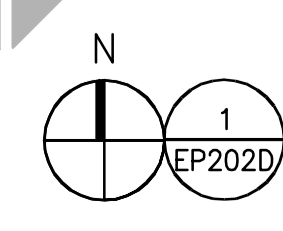
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
POWER/SYSTEMS  
AREA D - BUILDING 2**

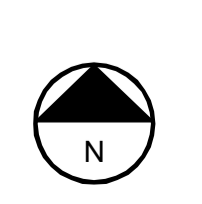
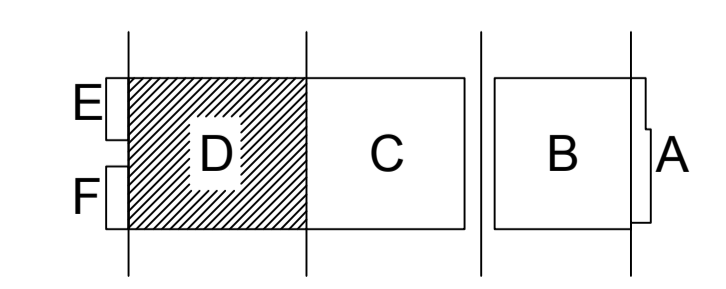
SHEET NO.  
**EP202D**

MATCH LINE - AREA E  
MATCH LINE - AREA D

MATCH LINE - AREA D  
MATCH LINE - AREA C

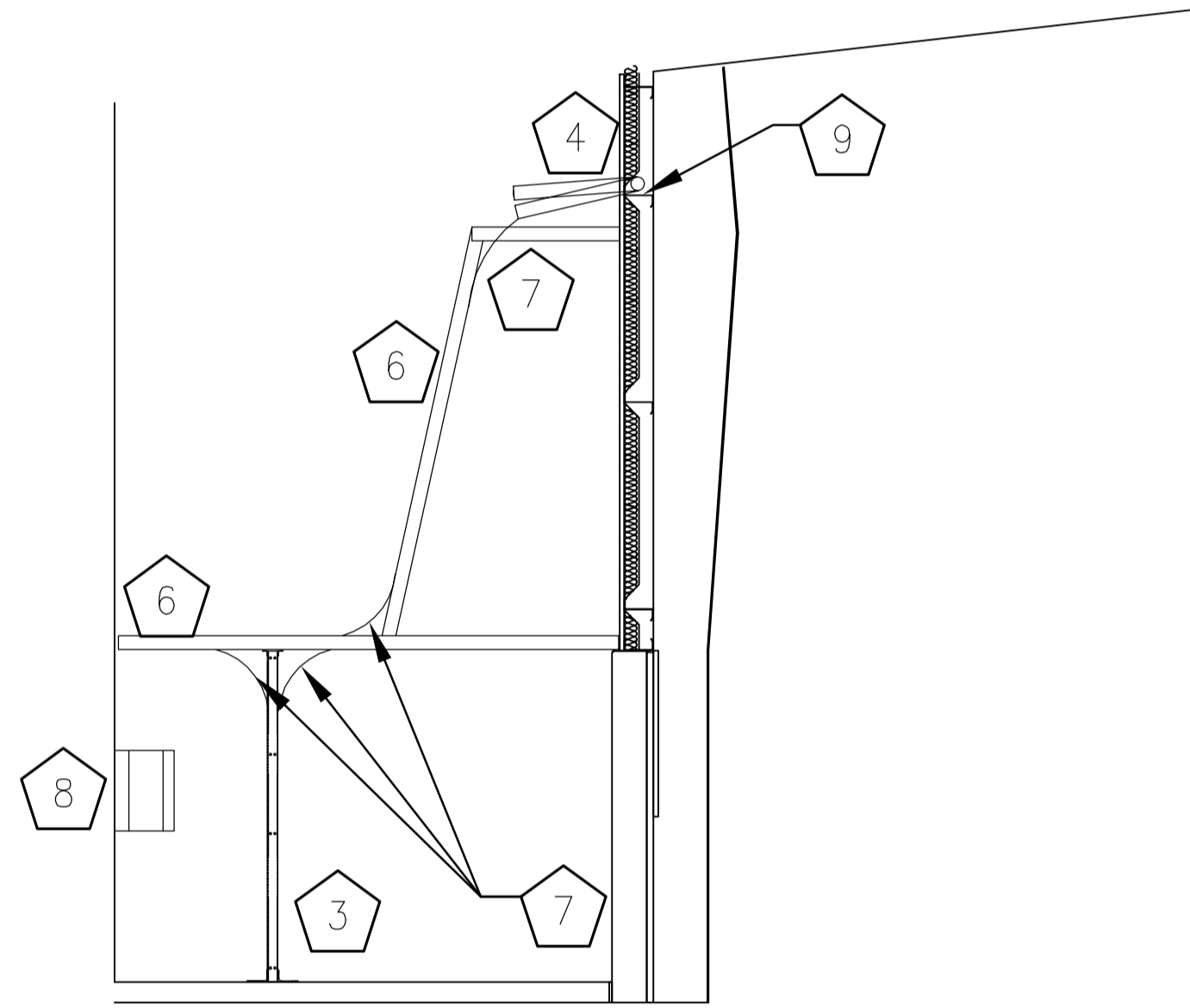
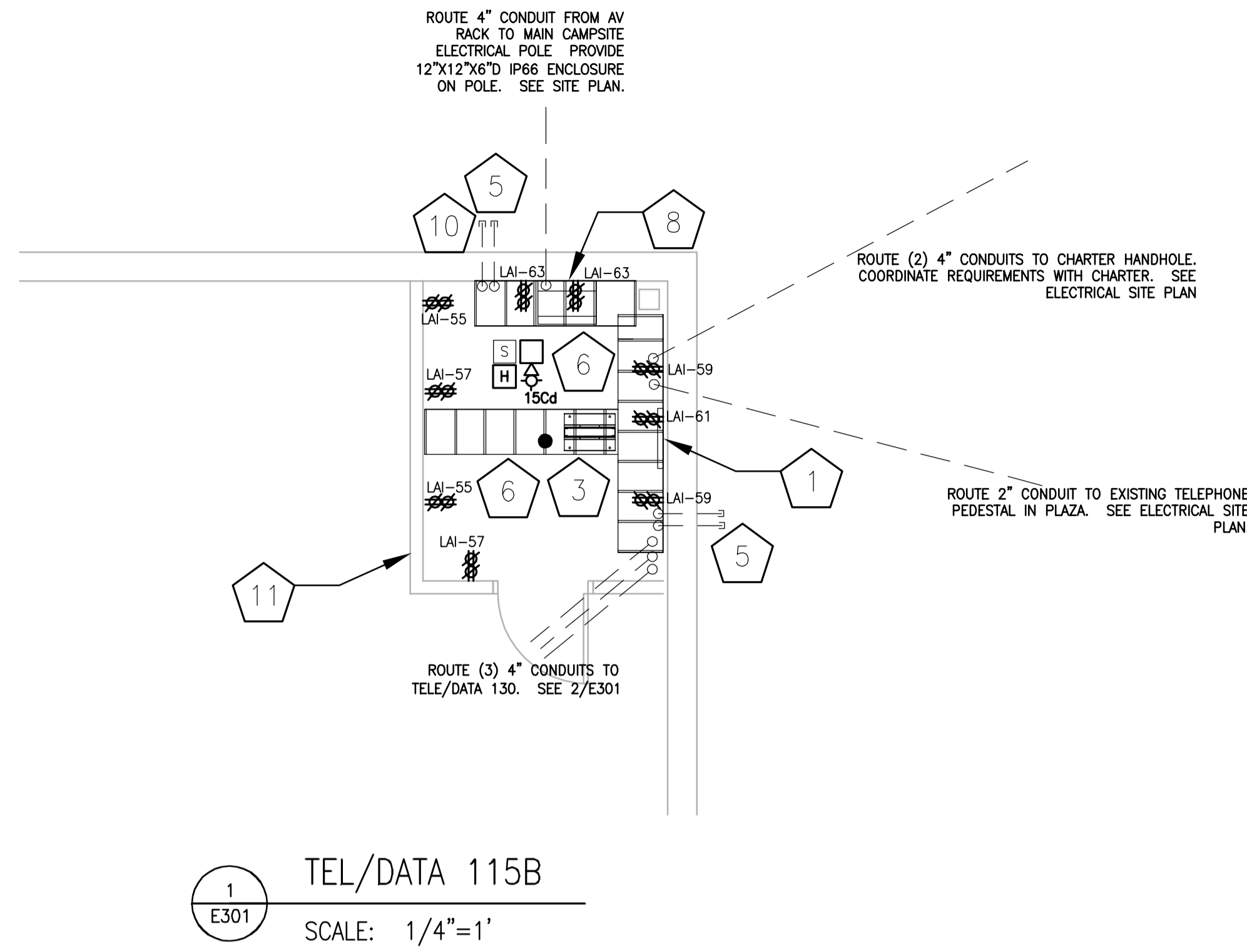
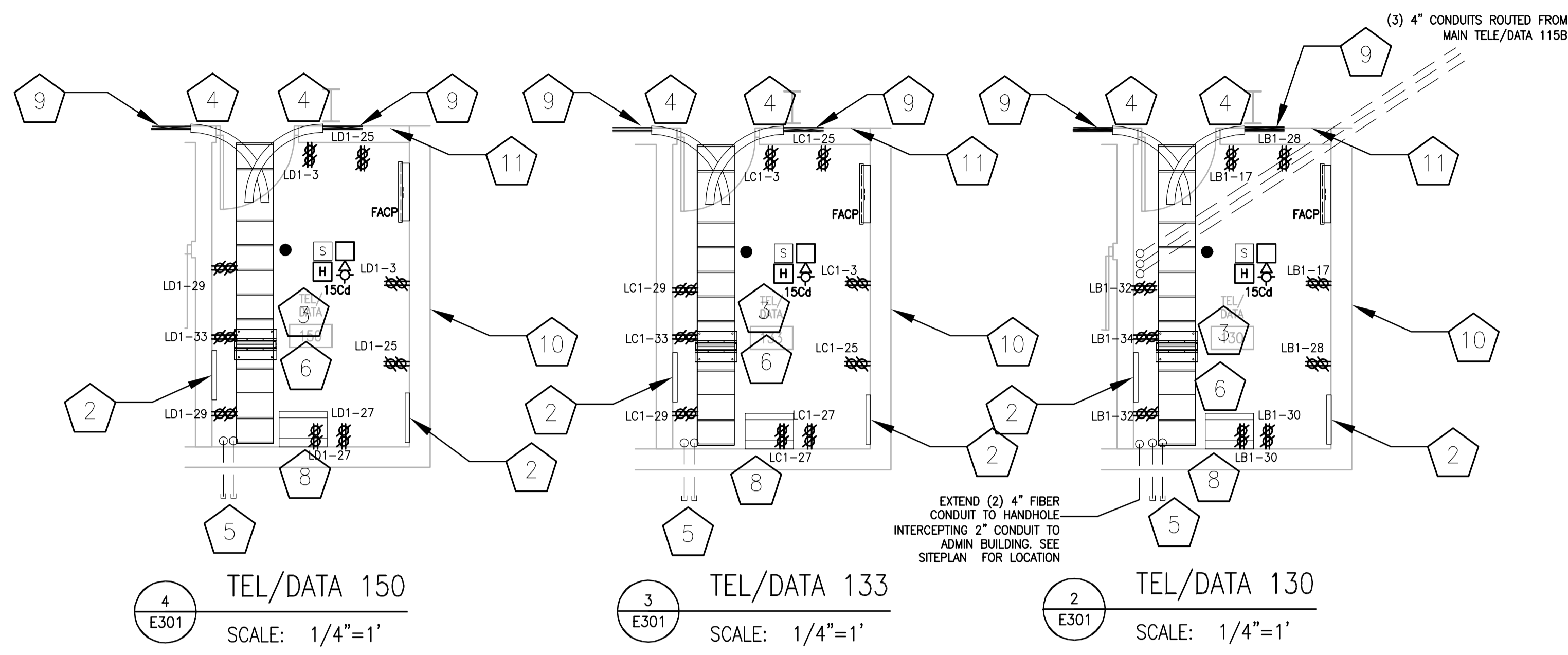


MEZZANINE POWER/SYSTEMS PLAN - AREA D  
SCALE: 1/16" = 1'-0"



KEY PLAN

CARLOS RUIZ 2013.03.13 2:27 PM K:\20130313027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027\_02-EP202D.DWG



CONDUIT/LADDER RACK ELEVATION  
TEL/DATA 130, 133, 150

5  
E301  
SCALE: 1/4"=1'

#	ENLARGED PLAN NOTES
1	24" LONG TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB). SEE SPECIFICATIONS FOR REQUIREMENTS.
2	24" LONG TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). SEE SPECIFICATIONS FOR REQUIREMENTS.
3	96" TALL FLOOR MOUNTED, 2-POST 19" RACK. SEE SPECIFICATIONS. PROVIDE ALL EQUIPMENT, VERTICAL AND HORIZONTAL WIRE MANAGEMENT AND ACCESSORIES REQUIRED IN SPECIFICATIONS AND AS TYPICAL FOR A COMPLETE AND FINISHED INSTALLATION TO APPLICABLE EIA/ITA STANDARDS AND INDUSTRY STANDARDS.
4	4" CONDUIT SWEEPS FROM STRUCTURAL GIRT INTO TELE/DATA ROOM. PROVIDE SUPPORT AS REQUIRED.
5	PROVIDE (2) 4" CONDUITS STUBBED 5' BEYOND PAVEMENT (INTO GRASSY AREA)
6	18" LADDER RACK. SUPPORT PER MANUFACTURER'S REQUIREMENTS.
7	PROVIDE WATERFALLS AS NEEDED TO MAINTAIN BEND RADIUS.
8	WALL MOUNTED A/R RACK FOR MOBILE TELEVISION COMPANY. 12U, 19" RACK. HINGED BACK, HINGED LOCKABLE DOOR. STARTECH RK1219WALHM OR EQUAL. PROVIDE FIBER PATCH PANEL AS SHOWN ON E402. LOCATE RECEPTACLE SHOWN INSIDE RACK.
9	ROUTE CABLING ON STRUCTURAL GIRT AS SHOWN. EC SHALL INSPECT GIRT PRIOR TO CABLE PULLING, AND ENSURE CABLES ARE NOT PULLED OR LAID ACROSS SHARP CUTS OR EDGES. FIBER OPTIC CABLES SHALL BE ROUTED IN FIBER INNERDUCT TO PROTECT FROM CUTS OR ABRASIONS.
10	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402. LOCATE 36" AFF.
11	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402. LOCATE 18" AFF.

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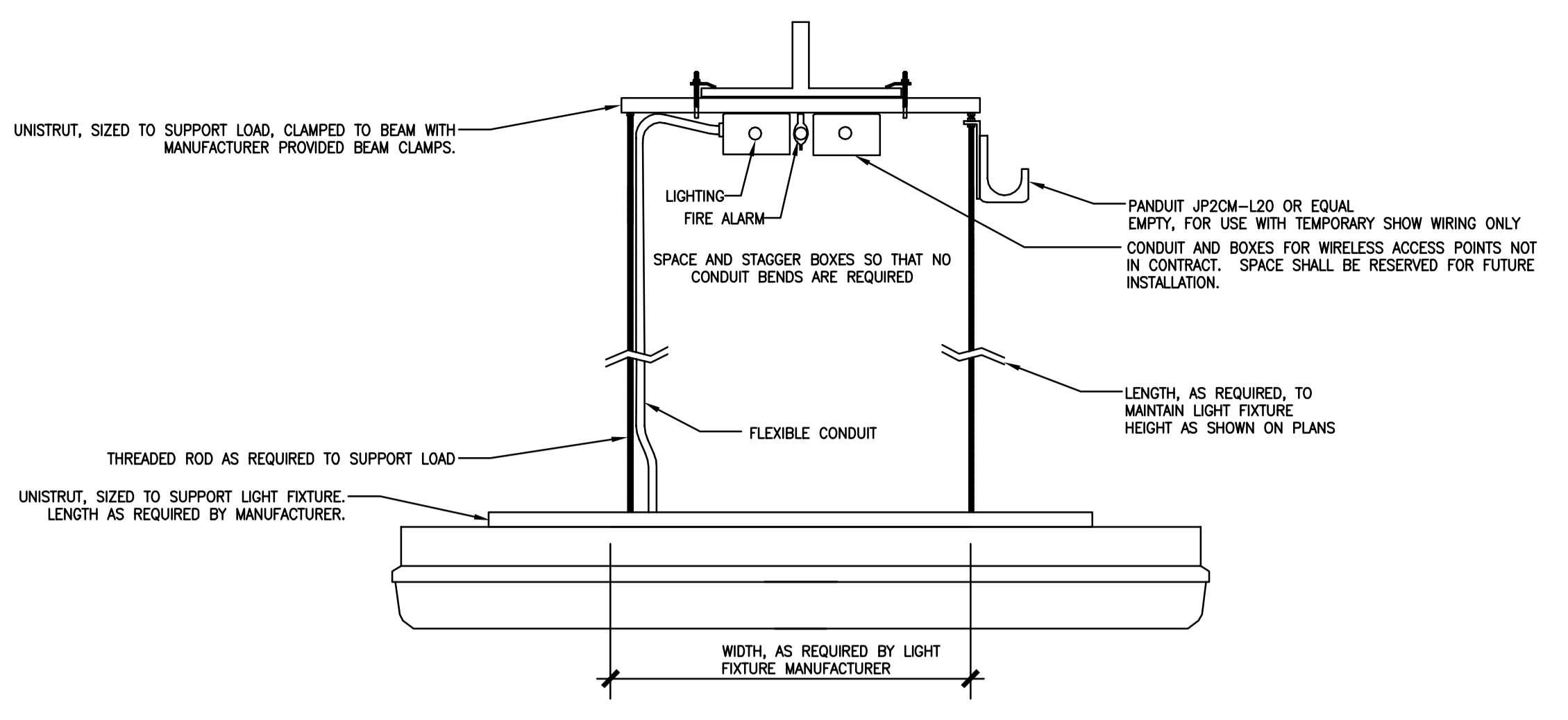
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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

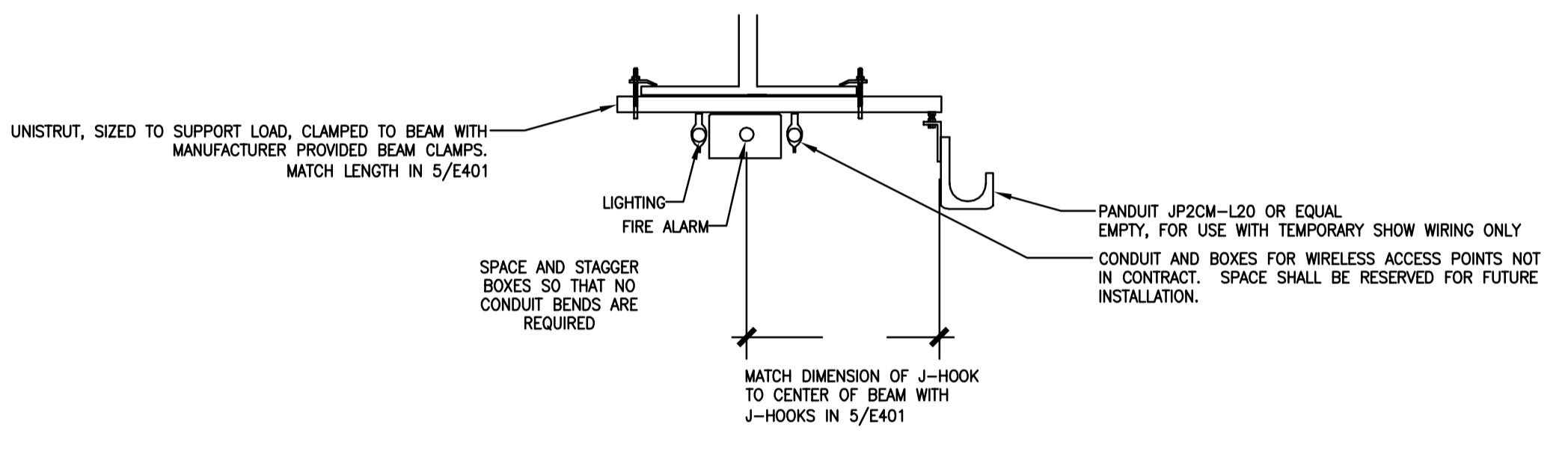
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
ENLARGED  
ELECTRICAL PLANS

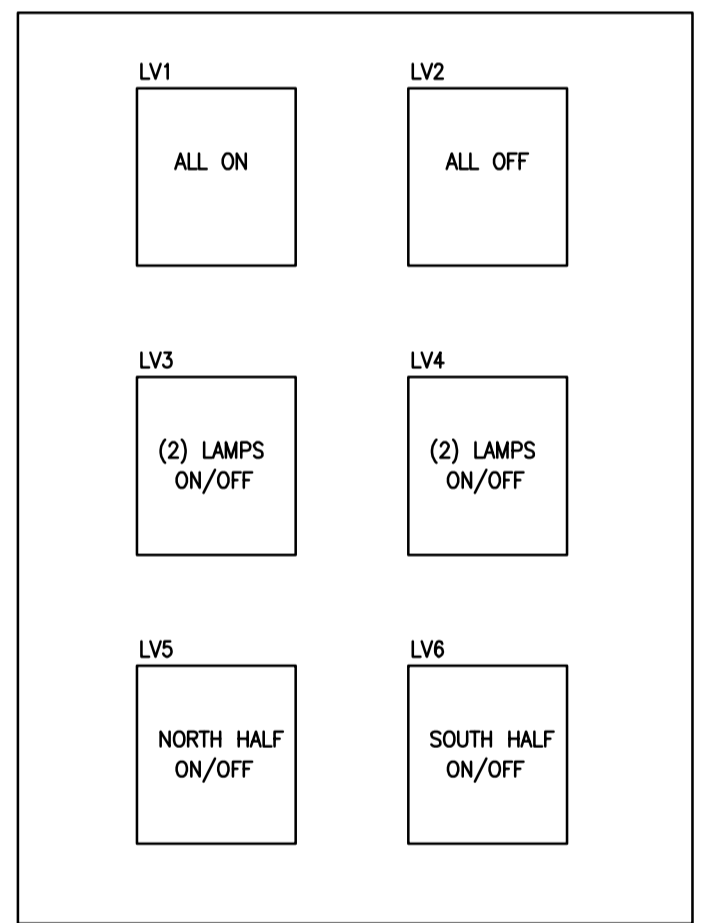
SHEET NO.  
E301



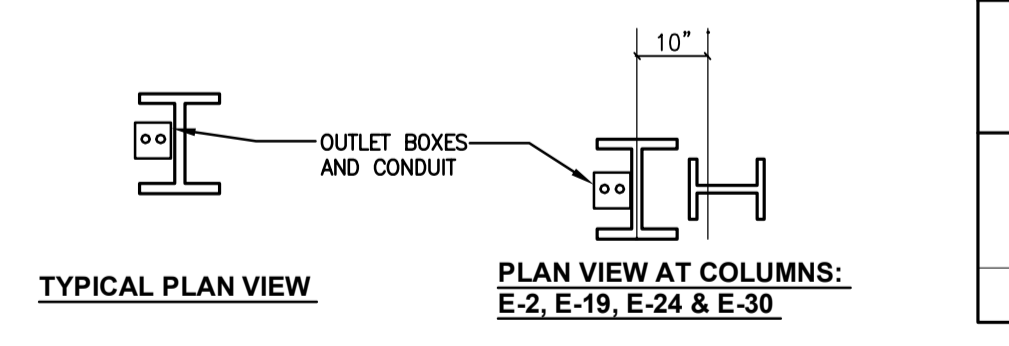
AT LIGHT FIXTURE LOCATIONS  
PAVILION LIGHTING, FIRE ALARM, DATA CONDUIT AND SUPPORT SYSTEM  
SCALE: N.T.S.



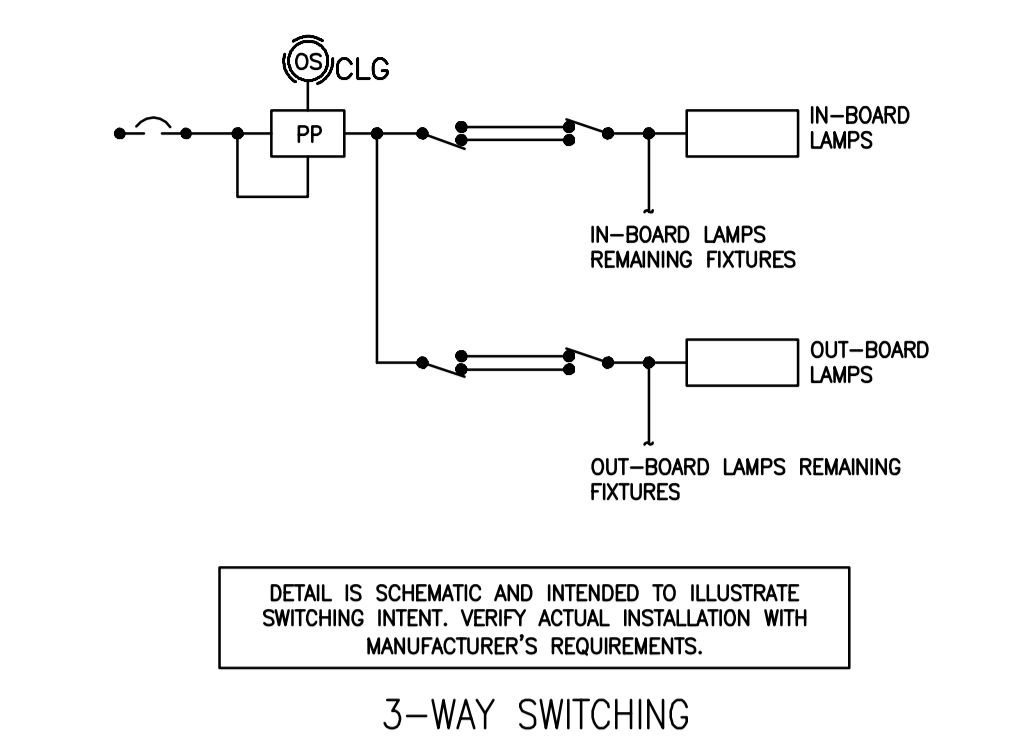
BETWEEN LIGHT FIXTURE LOCATIONS  
PAVILION LIGHTING, FIRE ALARM, DATA CONDUIT AND SUPPORT SYSTEM  
SCALE: N.T.S.



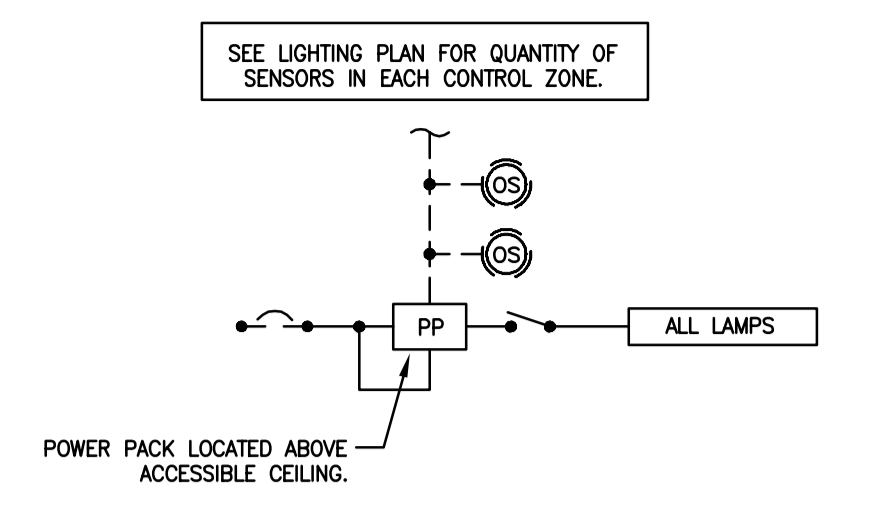
LOW VOLTAGE SWITCH SCENES  
SCALE: N.T.S.



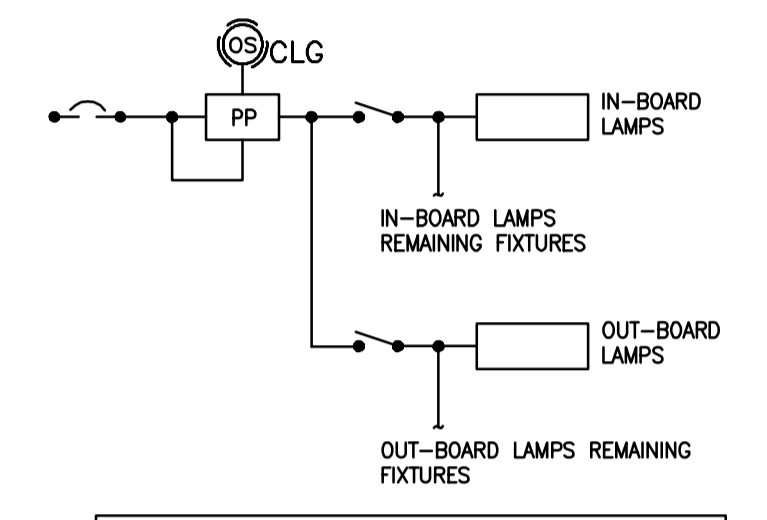
RECEPTACLES AT COLUMN DETAIL  
SCALE: N.T.S.



3-WAY SWITCHING  
CEILING OCCUPANCY SENSOR W/ TWO LEVELS LIGHTING  
SCALE: N.T.S.



CEILING OCCUPANCY SENSOR W/ SINGLE POLE SWITCH  
SCALE: N.T.S.

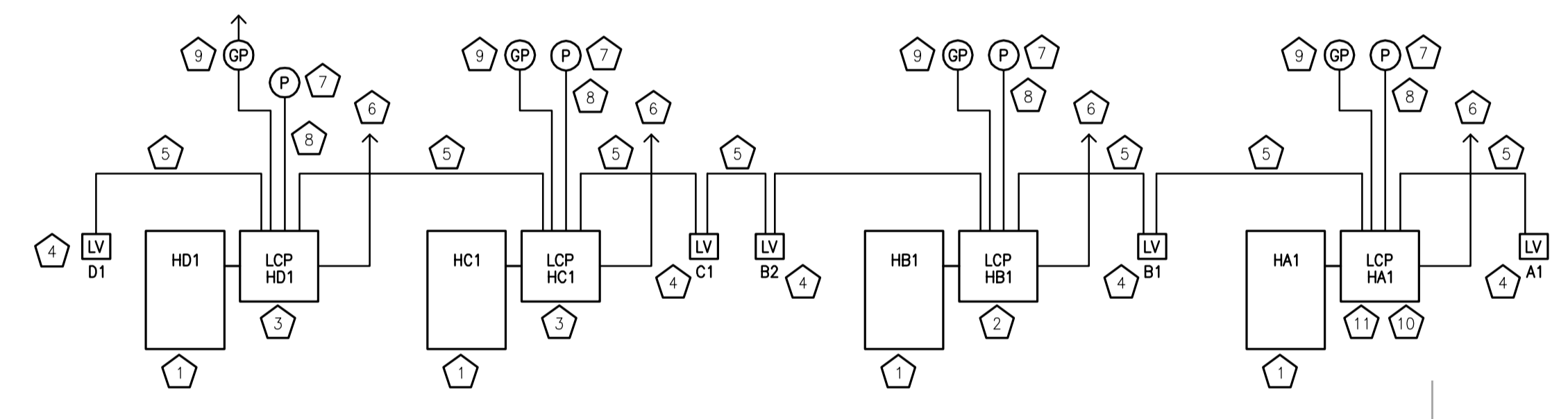


CEILING OCCUPANCY SENSOR W/ TWO LEVELS LIGHTING  
SCALE: N.T.S.

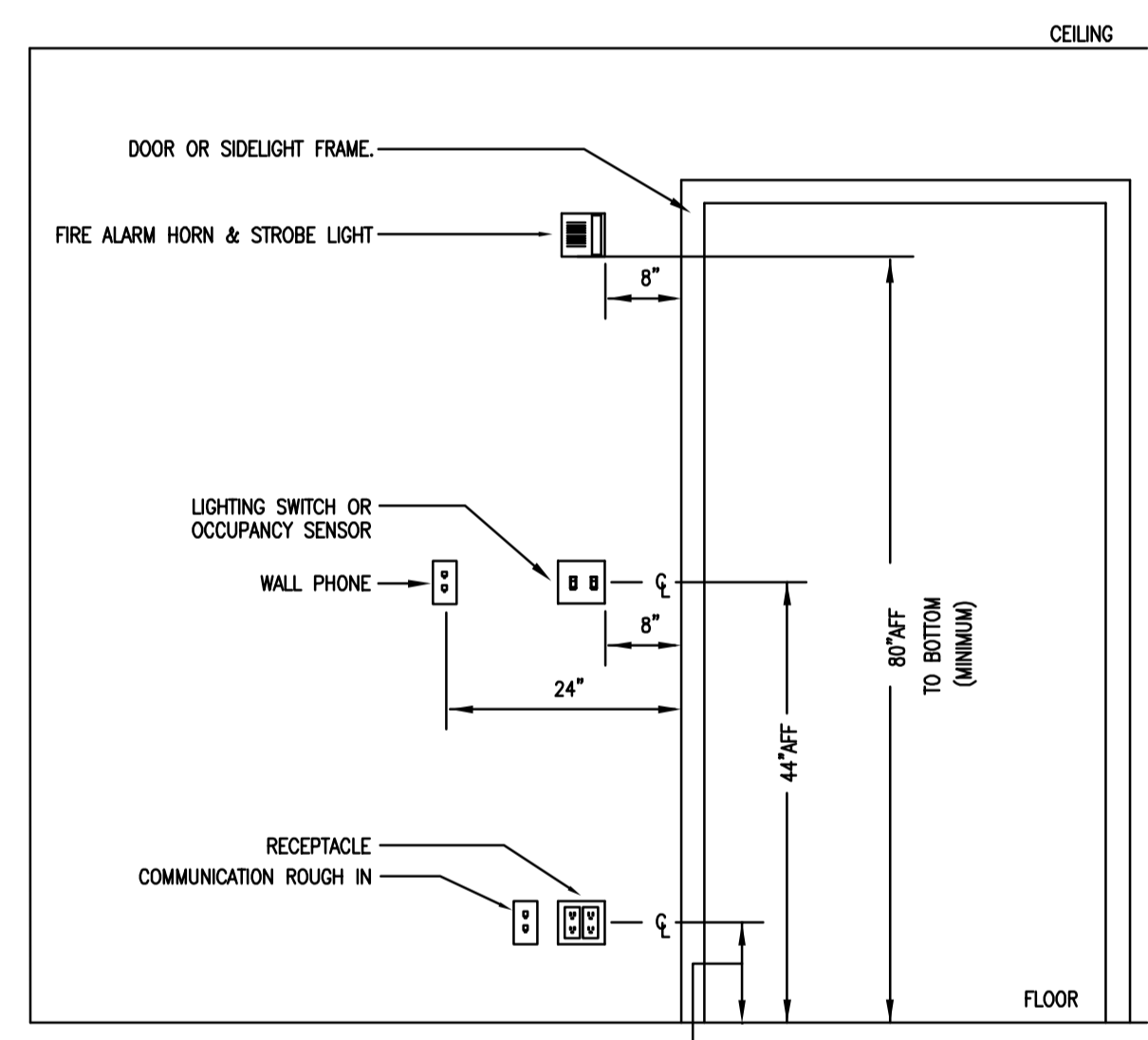
GENERAL PLAN NOTES FOR DETAIL 5	
1	THIS DIAGRAM IS NOT INTENDED TO BE A FIELD WIRING DIAGRAM THAT INDICATES SPECIFIC WIRING AND CONNECTION REQUIREMENTS. DIAGRAM INDICATES GENERAL SYSTEM COMPONENTS AND ARRANGEMENT ONLY. COMPLETE SYSTEM INSTALLATION SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER ACCORDING TO SHOP DRAWINGS AND FIELD WIRING DIAGRAMS FURNISHED BY THE MANUFACTURER.
2	VERIFY ALL LOCATIONS FOR EQUIPMENT ON SITE WITH OWNER.
3	EQUIPMENT CATALOG NUMBERS LISTED ON DIAGRAM IS EQUIPMENT MANUFACTURED BY LC&D.

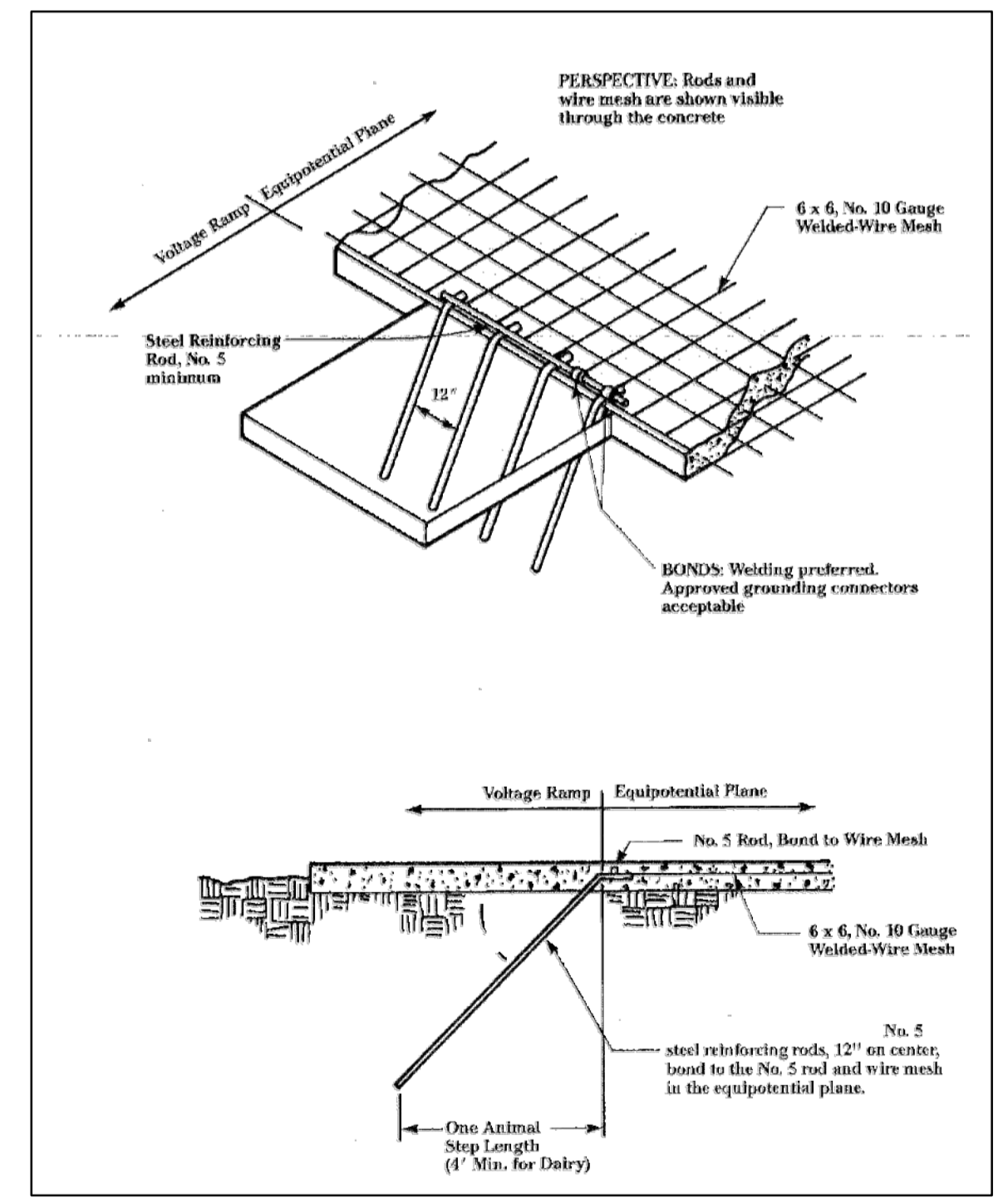
DETAIL 5 - SPECIFIC NOTES	
1	480 / 277V BRANCH CIRCUIT PANEL SERVING LIGHTING IN RESPECTIVE AREA. REFER TO LIGHTING FLOOR PLANS FOR CIRCUIT NUMBERS.
2	LIGHTING RELAY MASTER CONTROL PANEL CAT. NO. GR2432 LT INT 32NCL DTC MDD DV/GR2432 LT ENC SM NE1.
3	LIGHTING RELAY REMOTE CONTROL PANEL CAT. NO. GR2432 LT INT 32NCL REMOTE DV/GR2432 LT ENC SM NE1.
4	LOCAL LOW VOLTAGE MANUAL CONTROL SWITCH CH8 WP BWH PWH. VERIFY QUANTITY OF BUTTONS TO ACCOMMODATE NUMBER OF CONTROL ZONES. INCLUDE ENGRAVED NAMEPLATES TO IDENTIFY ZONES SERVED.
5	CAT 5 PATCH CABLE WITH RJ45 CONNECTORS.
6	277V VOLT LIGHTING CIRCUITS, SEE DRAWINGS FOR CIRCUIT NUMBERS.
7	OUTDOOR DIGITAL PHOTOSENSOR GR2400PC12W0 MOUNT WHERE APPROVED BY ARCHITECT ON NORTHSIDE OF BUILDING.
8	2 #18
9	INDOOR GLOBAL PHOTOSENSORS #RW/GR2400PC3 FOR CONTROL OF SKYLIGHT DAYLIT AREAS. BASE BID CONTROL WITH PHOTOSENSORS. ALT BID MANUAL DEVICES. VERIFY QUANTITY REQUIRED ON FLOOR PLANS.
10	LOCATE A SECOND RELAY PANEL ON THE MEZZANINE LEVEL.
11	LIGHTING RELAY REMOTE CONTROL PANEL CAT. NO. GR2416 LT INT 16NCL REMOTE DV/GR2416 LT ENC SM NE1.



LIGHTING CONTROL SYSTEM DIAGRAM  
SCALE: N.T.S.



DEVICE MOUNTING DETAIL  
SCALE: N.T.S.



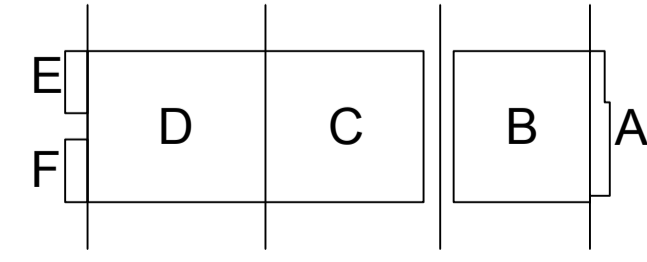
MILKING PARLOR TRANSITION RAMP DETAIL  
SCALE: N.T.S.

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-E401.DWG
REVISIONS	

DRAWN	KK
CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

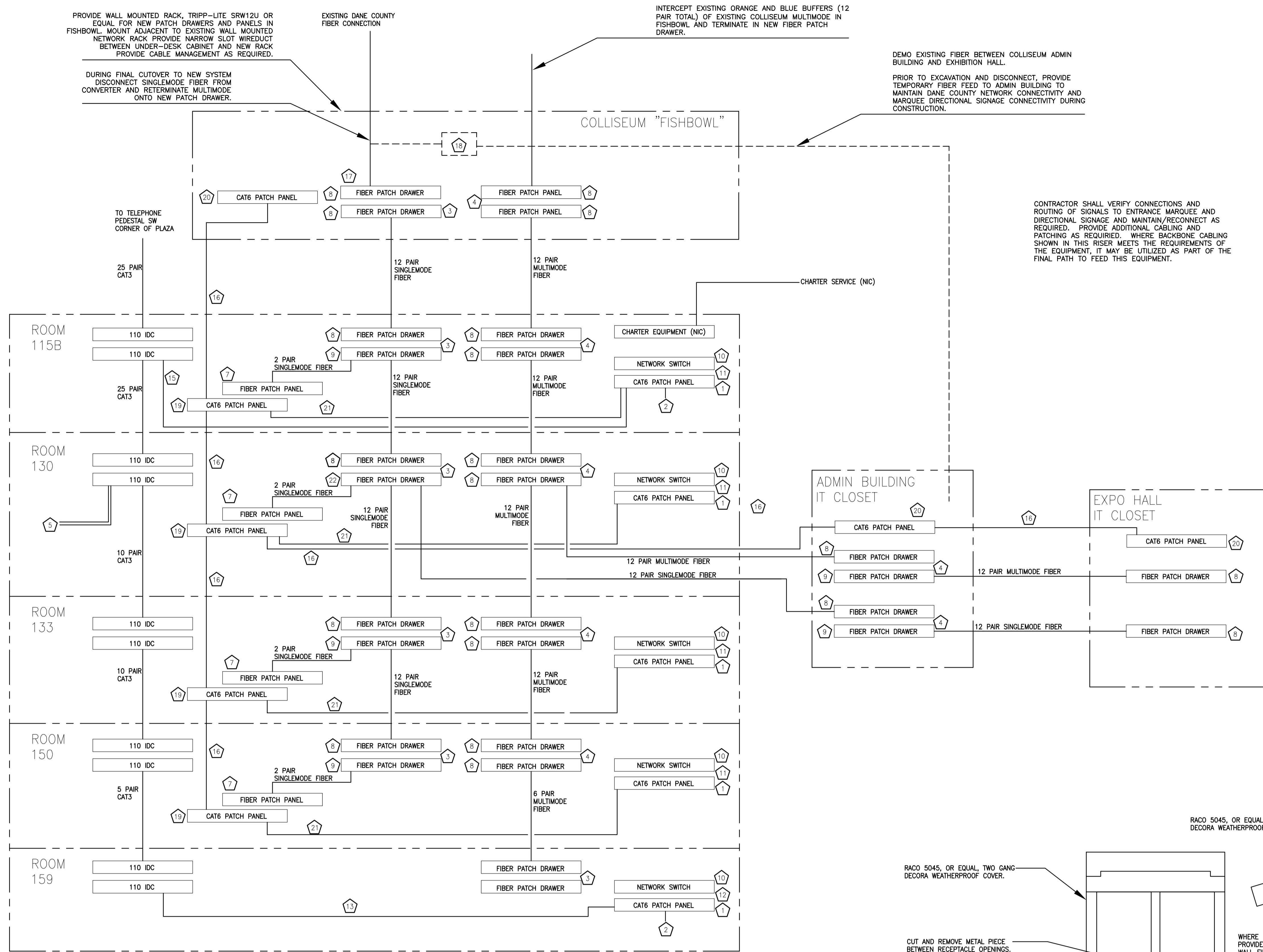


SHEET TITLE  
ELECTRICAL DETAILS

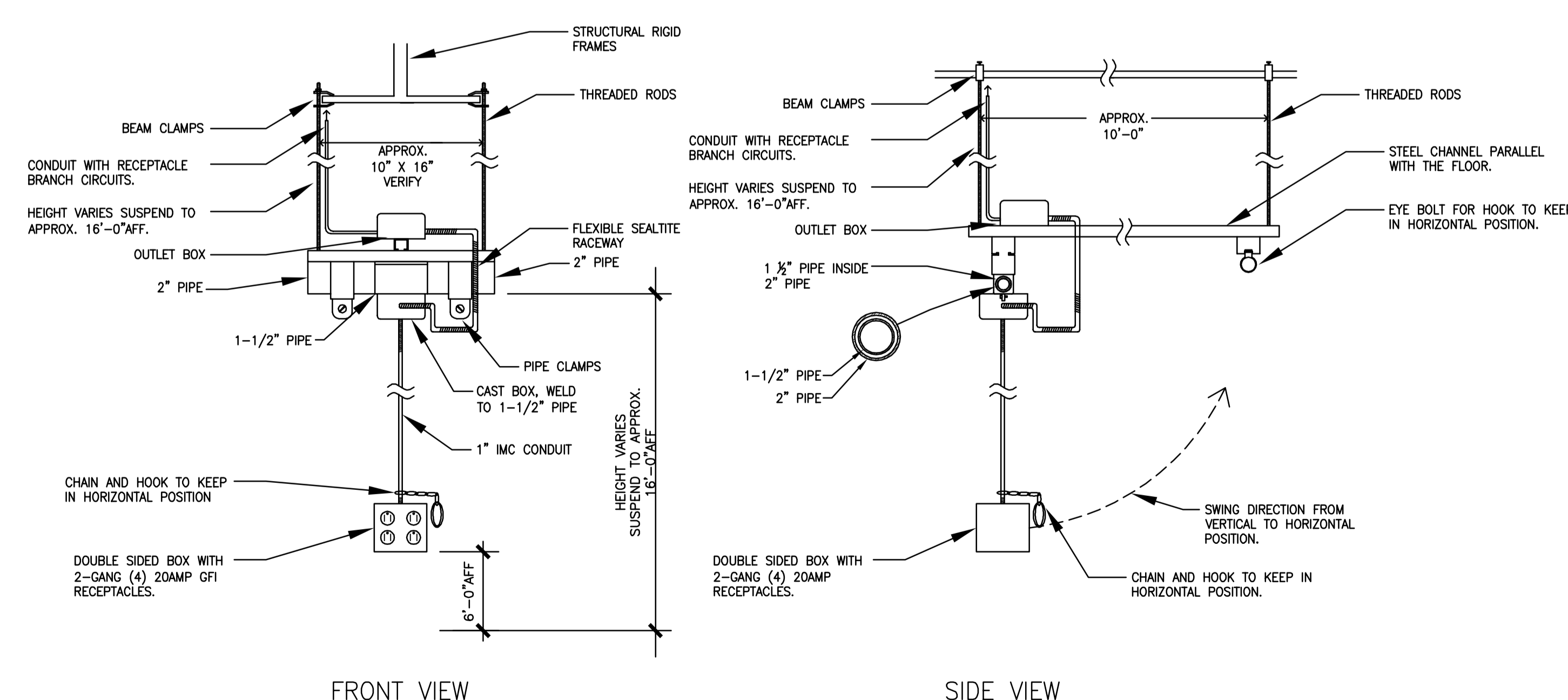
SHEET NO.  
E401

C:\CARLOS\RUZ\_2009-10-30\_2:27 PM K1\_201303013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02-E401.DWG

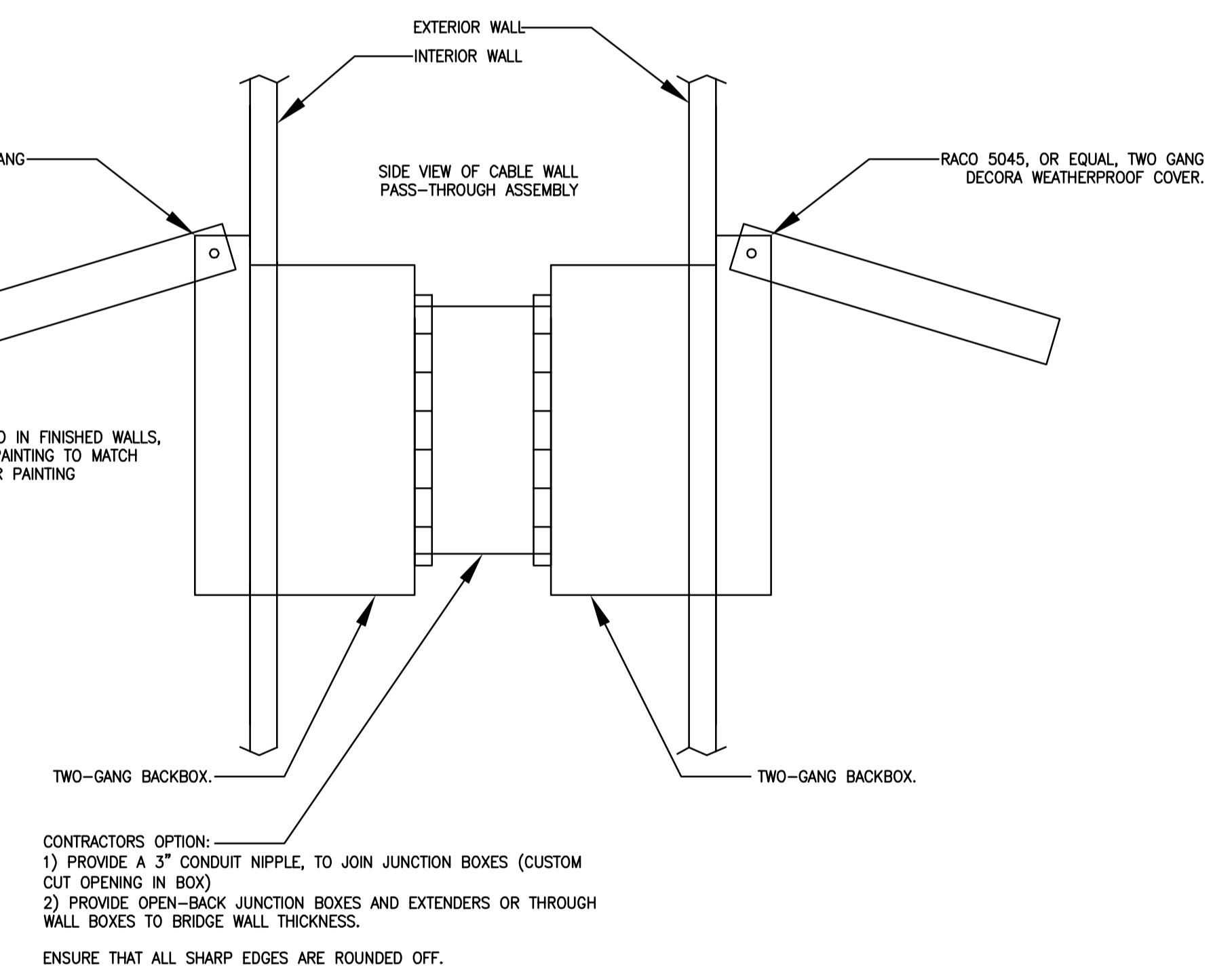
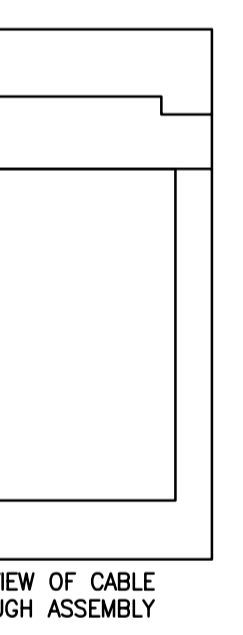
CARLOS RUIZ - 2009-6-30 2:27 PM N:\20130313027 - ALLIANT ENERGY CENTER - LIFESTOCK AND EXHIBITION HALL DRAWINGS\3013027\_02.E402.DWG



**1**  
**E402**  
**IT RISER.**  
 SCALE: NONE



**3**  
**E402**  
**PAVILION OUTLET DETAIL ALTERNATE #8**  
 SCALE: N.T.S.

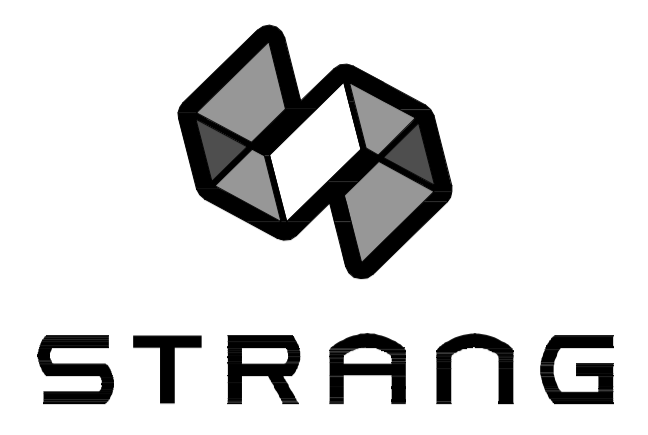


**2**  
**E402**  
**A/V CABLE PASS THROUGH ASSEMBLY**  
 SCALE: NONE

IT RISER-GENERAL NOTES	
1	THIS DIAGRAM IS NOT INTENDED TO BE A FIELD WIRING DIAGRAM THAT INDICATES SPECIFIC WIRING AND CONNECTION REQUIREMENTS. DIAGRAM INDICATES GENERAL SYSTEM COMPONENTS AND ARRANGEMENT ONLY. COMPLETE SYSTEM INSTALLATION SHALL BE AS RECOMMENDED EA/TA AND ACCORDING TO SHOP DRAWINGS AND FIELD WIRING DIAGRAMS FURNISHED BY THE MANUFACTURERS.
2	VERIFY ALL LOCATIONS FOR EQUIPMENT ON SITE WITH OWNER.
3	ACTIVE NETWORK EQUIPMENT, INCLUDING NETWORK SWITCHES, WIRELESS ACCESS POINTS (AND ASSOCIATED CONTROLLERS) AND CAT-6 CABLE AND CONDUIT TO WIRELESS ACCESS POINTS IS NOT IN CONTRACT. THESE ITEMS ARE INCLUDED IN AN ALLOWANCE CARRIED BY THE GENERAL CONTRACTOR.
4	ALL EQUIPMENT SHOWN SHALL BE MOUNTED IN EQUIPMENT RACKS SHOWN IN EACH ROOM, UNLESS OTHERWISE NOTED.
5	NETWORK OUTAGES SHALL BE KEPT TO A MINIMUM IN EXISTING BUILDINGS. ALL OUTAGES SHALL BE COORDINATED WITH THE OWNER 2 WEEKS PRIOR TO OUTAGES. ALL OUTAGE DATES ARE SUBJECT TO ALLIANT ENERGY CENTER APPROVAL BASED ON EVENTS AND OTHER FACTORS.

IT RISER-SPECIFIC NOTES	
1	PATCH PANEL SHALL HAVE A MINIMUM OF 48 PORTS TO SUPPORT WIRELESS ACCESS POINTS AND EVENT-SPECIFIC HORIZONTAL NETWORK CABLING NOT IN CONTRACT. HARDWIRED DATA OUTLET WIRING, SHOWN ON PLANS, IS PART OF THIS QUANTITY (NOT IN ADDITION TO IT).
2	PATCH PANEL SHALL HAVE A MINIMUM OF 12 PORTS TO SUPPORT FUTURE HORIZONTAL NETWORK CABLING NOT IN CONTRACT. HARDWIRED DATA OUTLET WIRING, SHOWN ON PLANS, IS PART OF THIS QUANTITY (NOT IN ADDITION TO IT).
3	PROVIDE (3) DUPLEX FIBER PATCH CABLES.
4	PROVIDE (6) DUPLEX FIBER PATCH CABLES.
5	2 PAIRS TO FIRE ALARM SYSTEM COMMUNICATOR
6	TO MAINTENANCE SHOP OFFICE PHONES
7	4 PORT MINIMUM, LOCATED IN WALL AV CABINET. PROVIDE PATCH PANELS WITH ST CONNECTORS IN WALL A/V CABINET. (ALL OTHER SINGLEMODE CONNECTIONS UTILIZE LC CONNECTORS)
8	12 PORT (DUPLEX) MINIMUM
9	16 PORT (DUPLEX) MINIMUM
10	ACTIVE NETWORK EQUIPMENT NOT IN CONTRACT
11	PROVIDE (48) CAT6 PATCH CABLES
12	PROVIDE (3) CAT6 PATCH CABLES
13	PROVIDE (3) CAT3 110 IDC TO RJ45 PATCH CABLES FOR TELEPHONE CONNECTION TO OFFICES, VIA CAT6 PATCH PANEL. UTILIZE CAT6 CABLE TO THE OUTLETS AS SHOWN ON THE PLANS.
14	CAT6 CABLE TO WIRED DATA OUTLETS. SEE PLANS FOR QUANTITY AND LOCATIONS.
15	PROVIDE (4) CAT3 110 IDC TO RJ45 PATCH CABLES FOR TELEPHONE CONNECTION TO OFFICES, VIA CAT6 PATCH PANEL. UTILIZE CAT6 CABLE TO THE OUTLETS AS SHOWN ON THE PLANS.
16	(4) CAT6 CABLES (FOR THE USE OF THE MOBILE TELEVISION CONTRACTOR) OF A DIFFERENT COLOR THAN OTHER NETWORK CABLING TERMINATE EACH END OF CABLE ON PATCH PANELS AS SHOWN.
17	RETERMINATE EXISTING INCOMING SINGLEMODE FIBER ONTO A NEW PATCH PANEL IN NEW CABINET.
18	REMOVE EXISTING SINGLEMODE TO MULTIMODE CONVERTER ONCE CONSTRUCTION IS COMPLETE. TURN OVER TO OWNER.
19	MINIMUM 16 PORT CAT6 PATCH PANEL LOCATED IN AV RACK
20	MINIMUM 8 PORT CAT6 PATCH PANEL LOCATED IN EXISTING RACK
21	(2) CAT6 CABLES FROM NETWORK RACK TO AV RACK
22	30 PORT (DUPLEX) MINIMUM
23	ALTERNATE #8 OUTLET BOX ASSEMBLY TO REPLACE CORD REELS IN PAVILIONS.
24	DETAIL 3/E402 IS INTENDED TO BE A CONCEPT DRAWING THAT INDICATES THE GENERAL CONFIGURATION OF THE SWING DOWN OUTLET ASSEMBLY THAT CAN REPLACE THE CORD REELS INDICATED ON DRAWINGS. DETAIL DOES NOT INCLUDE SPECIFIC INFORMATION FOR ALL COMPONENTS THAT ARE NECESSARY FOR A COMPLETE WORKING ASSEMBLY.
25	INCLUDED IN THE WORK FOR ALTERNATE #8 SHALL BE A COMPLETE FULL SIZE WORKING MOCK-UP FOR THE PAVILION OUTLET ASSEMBLY INCLUDING ALL WORK AND COMPONENTS NECESSARY FOR A COMPLETE ASSEMBLY. APPROVAL OF MOCK-UP IS REQUIRED BY OWNER, ARCHITECT, AND ENGINEER BEFORE STARTING THE FABRICATION OF THE FINAL ASSEMBLY.



ARCHITECTURE  
 ENGINEERING  
 INTERIOR DESIGN  
  
 STRANG INC.  
 8411 MINERAL POINT ROAD  
 MADISON, WI 53705-4395  
 T/ 608 276 9200  
 F/ 608 276 9204

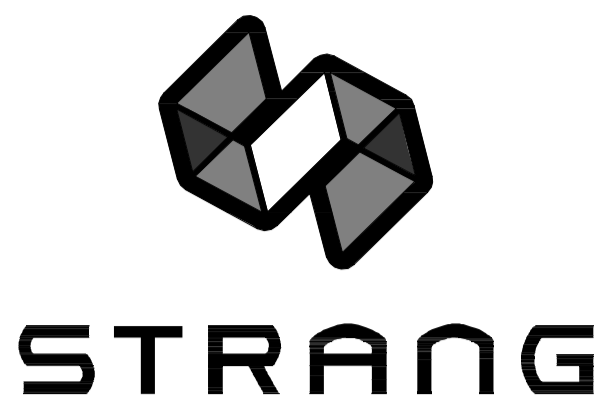
DRAWING SET	CD
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FILE NAME	2013027_02-E402.DWG
REVISIONS	
DRAWN	MAL
CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
 BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
 MADISON, WISCONSIN 53713

SHEET TITLE  
**ELECTRICAL DETAILS**

SHEET NO.  
**E402**



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9244

Panelboard: HA1. Bus Ampacity: 250. Branch Bkr Space: 42. MLO Amps: 250. Panel Source: SWB A/B. Feed (Top/Bottom): 277/480. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 35K. Sub-Feed Bkr #2: 29.9 A. Panel Depth: 29.9 A.

Panelboard: LA1A. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 400. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 157.1 A. Panel Depth: 157.1 A.

Panelboard: LA1B. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 400. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 157.1 A. Panel Depth: 157.1 A.

Panelboard: LA2. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 400. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 162.2 A. Panel Depth: 162.2 A.

Panelboard: HB1. Bus Ampacity: 250. Branch Bkr Space: 42. MLO Amps: 250. Panel Source: SWB A/B. Feed (Top/Bottom): 277/480. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 35K. Sub-Feed Bkr #2: 57.4 A. Panel Depth: 57.4 A.

Panelboard: LB1. Bus Ampacity: 225. Branch Bkr Space: 42. MLO Amps: 175. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 98.4 A. Panel Depth: 98.4 A.

Panelboard: LB2A. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 300. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 193.6 A. Panel Depth: 193.6 A.

Panelboard: LB2B. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 400. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 193.6 A. Panel Depth: 193.6 A.

Panelboard: LB3A. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 300. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 166.0 A. Panel Depth: 166.0 A.

Panelboard: LB3B. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 400. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 166.0 A. Panel Depth: 166.0 A.

Panelboard: LB4A. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 300. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 144.0 A. Panel Depth: 144.0 A.

Panelboard: LB4B. Bus Ampacity: 400. Branch Bkr Space: 42. MLO Amps: 400. Panel Source: SWB A/B. Feed (Top/Bottom): 120/208. Feed-Thru Lugs: 3. Load Fed: 4. Sub-Feed Lugs: 4. Sub-Feed Bkr #1: 22K. Sub-Feed Bkr #2: 166.0 A. Panel Depth: 166.0 A.

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FILE NAME 2013027\_02-E501.DWG

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DATE 10-29-13

PROJECT NO. 2013027\_02

PROJECT TITLE  
ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

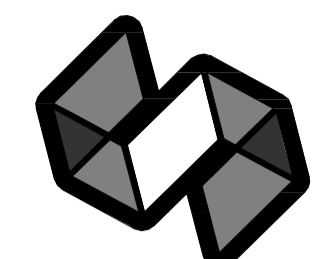
SHEET TITLE

PANELBOARD  
SCHEDULES

SHEET NO.  
E501

CARLOS RUIZ - 2009-06-30 - 2:27 PM (K)\_20130313027 - ALLIANT ENERGY CENTER PAVILIONS AND EXHIBITION - LAYOUT AND EXHIBITION - HALLDRAWING2013027\_02-E501.DWG





STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9244

Panelboard: LBSA. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: SWB A/B. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 145.0 A. Load Fed. Total Phases 18,000. Total Panel 18,000 18,000 16,360 52,360.

Panelboard: LBSB. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: SWB A/B. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 145.0 A. Load Fed. Total Phases 4,000. Total Panel 4,000 4,000 2,360 10,360.

Panelboard: ELEV. Bus Ampacity 100, Branch Brkr Space 18, MLO Amps 70. Panel Source: SWB A/B. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 7.5 A. Load Fed. Total Phases 320 300 620. Total Panel 320 300 620 1,996.

Panelboard: HCl. Bus Ampacity 250, Branch Brkr Space 42, MLO Amps 250. Panel Source: DP C. Feed (Top/Bottom) 277/480. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 35K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 64.0 A. Load Fed. Total Phases 15,492. Total Panel 15,492 14,940 12,130 42,562.

Panelboard: LC1. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 123.9 A. Load Fed. Total Phases 14,330. Total Panel 14,330 16,130 14,488 44,948.

Panelboard: LC2A. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 208.0 A. Load Fed. Total Phases 26,000. Total Panel 26,000 25,000 24,000 75,000.

Panelboard: LC2B. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 183.0 A. Load Fed. Total Phases 12,000. Total Panel 12,000 11,000 10,000 33,000.

Panelboard: LC3A. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 261.0 A. Load Fed. Total Phases 32,000. Total Panel 32,000 31,000 31,000 94,000.

Panelboard: LC3B. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 145.0 A. Load Fed. Total Phases 18,000. Total Panel 18,000 17,000 17,000 52,000.

Panelboard: LC3C. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 183.0 A. Load Fed. Total Phases 4,000. Total Panel 4,000 3,000 3,000 10,000.

Panelboard: LC4A. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 300. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 183.0 A. Load Fed. Total Phases 22,000. Total Panel 22,000 22,000 22,000 66,000.

Panelboard: LC4B. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Wires 4. Sub-Feed Lugs YES. Sub-Feed Brkr #1 AIC 22K. Sub-Feed Brkr #2 Phil MCA. Sub-Feed Brkr #2 145.0 A. Load Fed. Total Phases 8,000. Total Panel 8,000 8,000 8,000 24,000.

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FILE NAME 2013027\_02-E502.DWG

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DATE 10-29-13

PROJECT NO. 2013027\_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

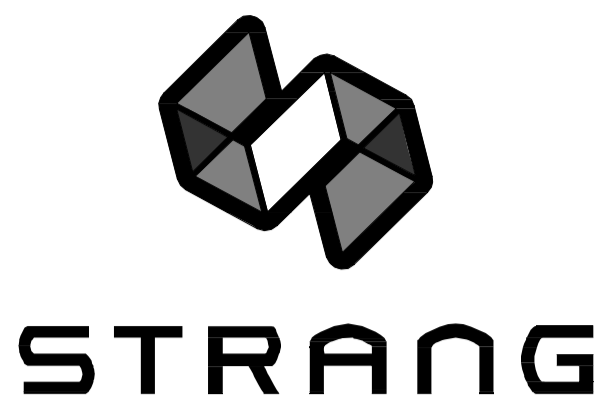
SHEET TITLE

PANELBOARD  
SCHEDULES

SHEET NO.

E502

CARLOS RUIZ 2009-5-30 2:27 PM K:\2013\03\13027 - ALLIANT ENERGY CENTER LIVES TOOK & EXHIBITION HALL\DRAWINGS\2013027\_02-E502.DWG



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9244

Panelboard: LC5A Panel Source: DP C
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 105.5 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LC5B Panel Source: DP C
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 105.5 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: HD1 Panel Source: SWB D,E,F
Bus Amptcity: 250 Volts 277/480 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 250 Wires 4 Load Fed
MCB A/P: 300 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 35K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 74.9 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD1 Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 300 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 127.3 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD2A Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 219.0 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD2B Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 166.0 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD3A Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 166.0 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD3B Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 166.0 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD4A Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 105.5 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD4B Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 105.5 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD5A Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 105.5 A Sub-Feed Brkr #2
Pul Depth: Load Fed

Panelboard: LD5B Panel Source: SWB D,E,F
Bus Amptcity: 400 Volts 120/208 Feed (Top/Bottom)
Branch Brkr Space: 42 Phase 3 Feed-Thru Lugs
MLO Amps: 400 Wires 4 Load Fed
MCB A/P: 400 Surface YES Sub-Feed Lugs
Pul Mir: Recessed Load Fed
Pul Type: AIC 22K Sub-Feed Brkr #1
Pul Height: Load Fed
Pul Width: Pul MCA 105.5 A Sub-Feed Brkr #2
Pul Depth: Load Fed

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FILE NAME 2013027\_02-E503.DWG

REVISIONS

DRAWN KK
CHECKED AS

DATE 10-29-13

PROJECT NO. 2013027\_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY MADISON, WISCONSIN 53713

SHEET TITLE PANELBOARD SCHEDULES

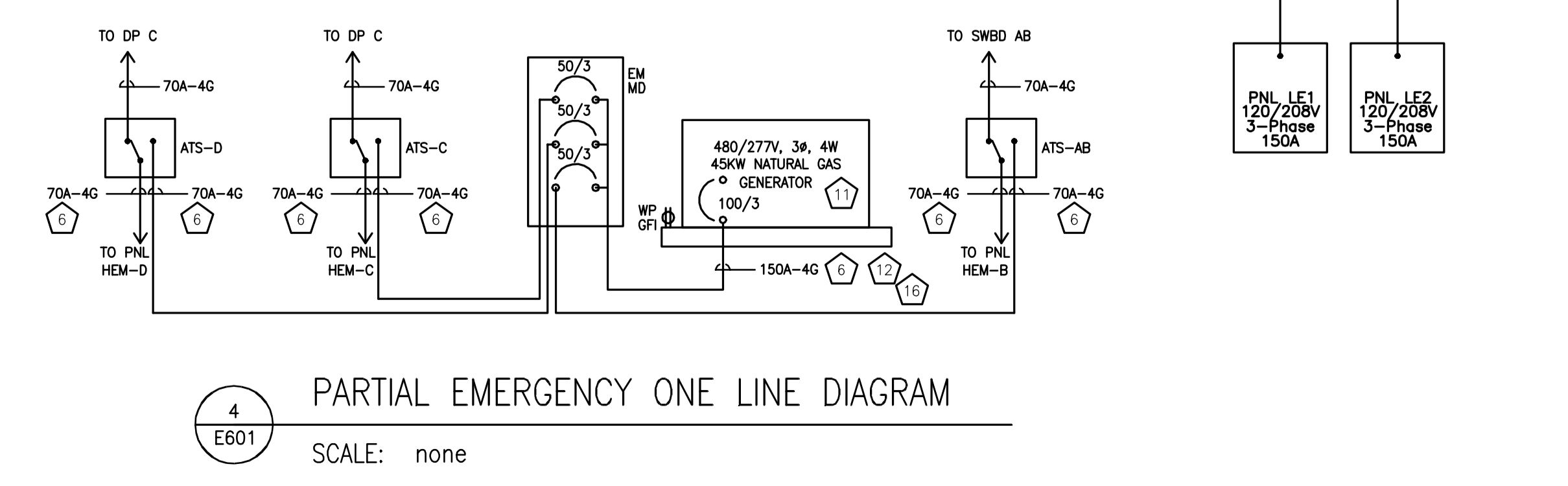
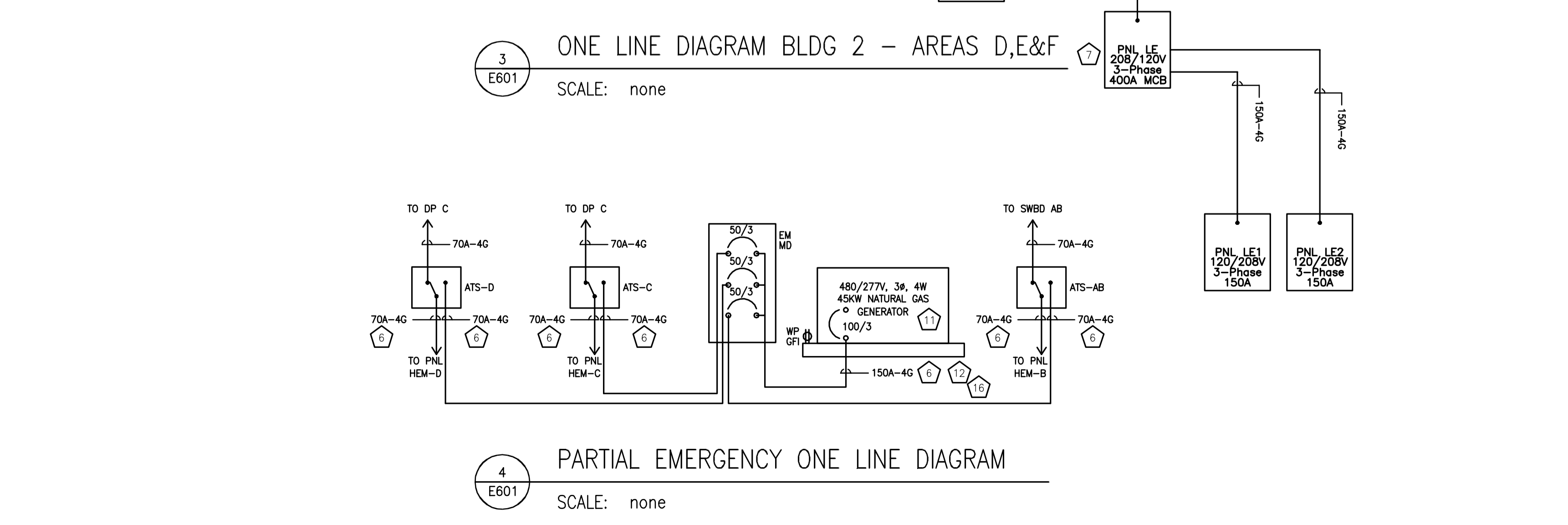
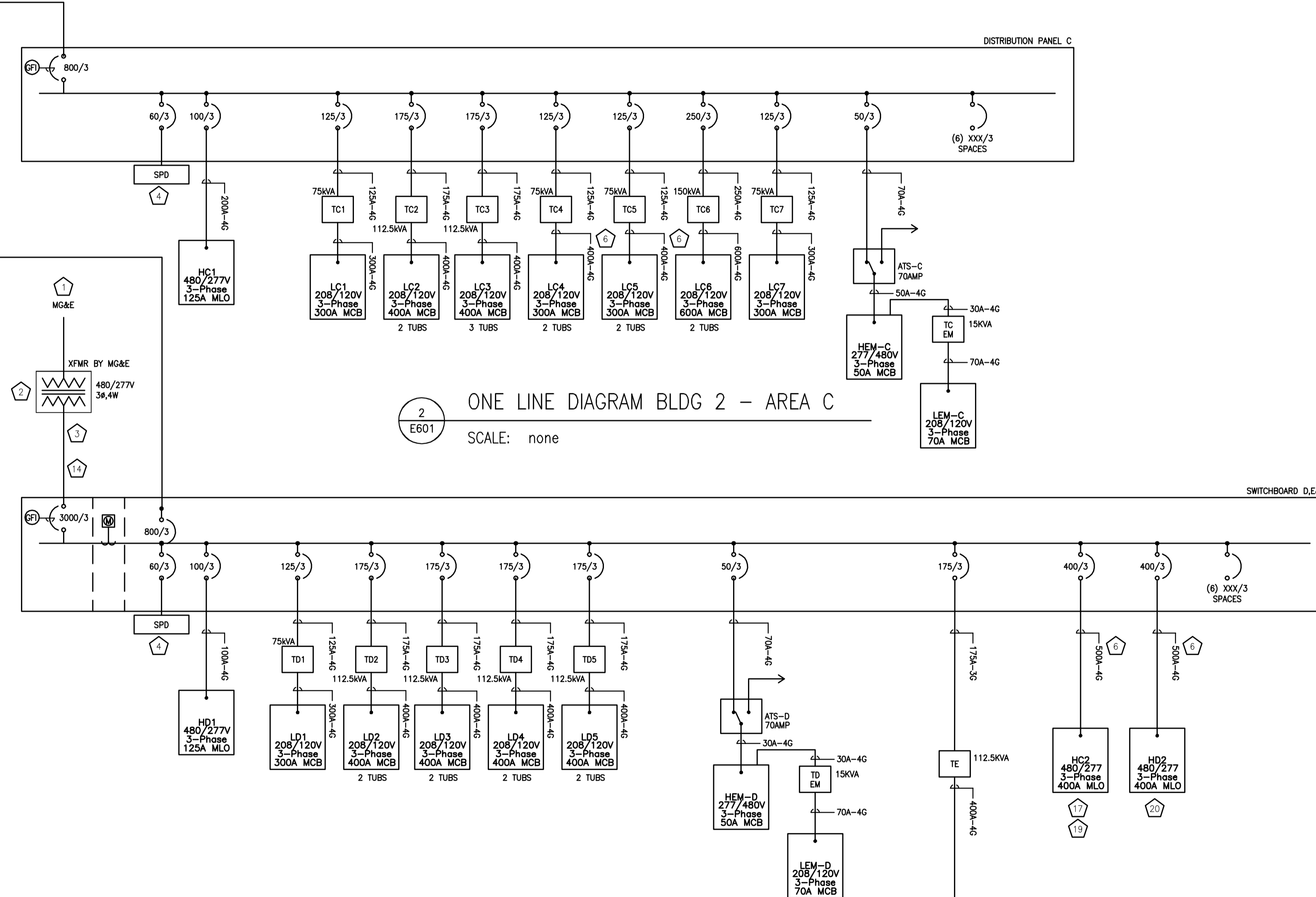
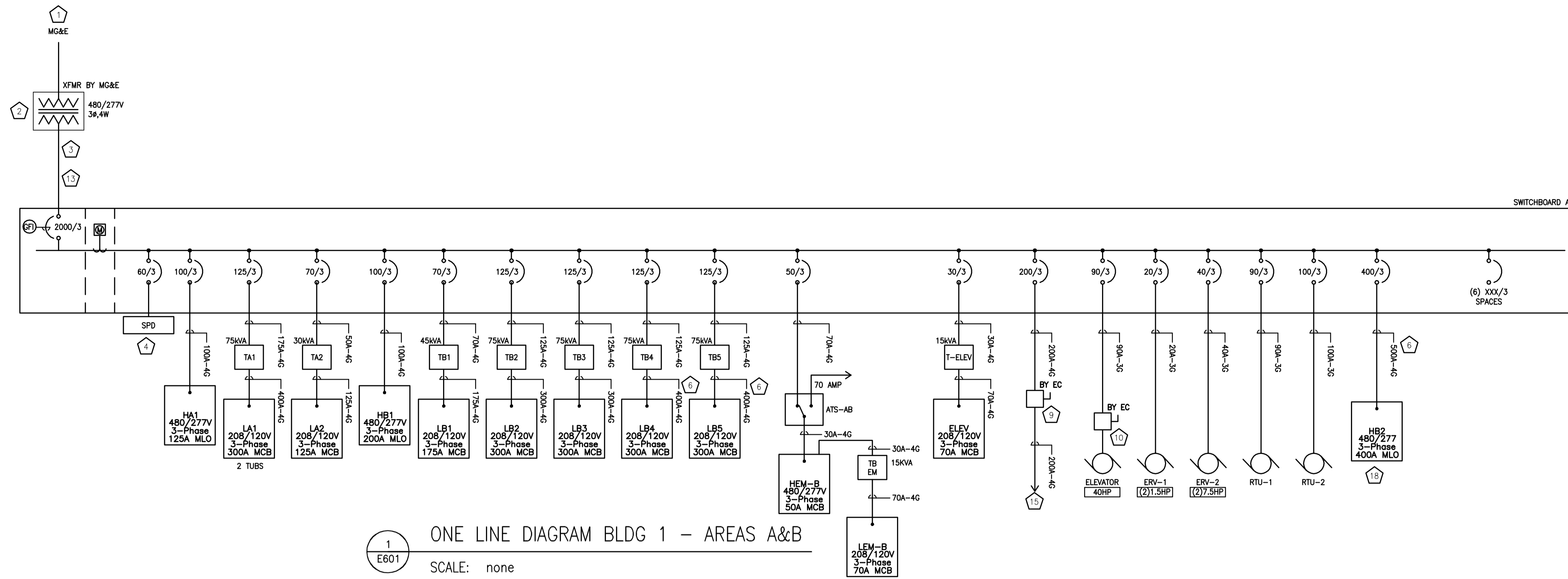
SHEET NO. E503

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FEEDER SCHEDULE (600 V)				
FEEDER AMPACITY	CONDUCTOR SIZE (Kcmil)		CONDUIT SIZE	
	# & N	GRD	3ø & GRD	3ø & N & GRD
20	#12	#12	3/4"	3/4"
30	#10	#10	3/4"	3/4"
40	#8	#10	3/4"	1"
50	#6	#10	1"	1"
70	#4	#8	1-1/4"	1-1/4"
80	#3	#8	1-1/4"	1-1/4"
100	#1	#8	1-1/2"	2"
110	#2	#6	1-1/4"	1-1/2"
125	#1	#6	1-1/2"	2"
150	#1/0	#6	1-1/2"	2"
175	#2/0	#6	2"	2"
200	#3/0	#6	2"	2-1/2"
225	#4/0	#4	2"	2-1/2"
250	#250	#4	2-1/2"	3"
300	#500	#4	3"	3"
350	#500	#3	3"	3-1/2"
400	(2) # 3/0	(2) # 3	(2) 2"	(2) 2-1/2"
450	(2) # 4/0	(2) # 2	(2) 2"	(2) 2-1/2"
500	(2) # 250	(2) # 2	(2) 2-1/2"	(2) 3"
600	(2) # 350	(2) # 1	(2) 3"	(2) 3"
700	(2) # 500	(2) # 1/0	(2) 3"	(2) 3-1/2"
800	(2) # 600	(2) # 1/0	(2) 3-1/2"	(2) 4"
1000	(3) # 400	(3) # 2/0	(3) 3"	(3) 3-1/2"
1200	(3) # 600	(3) # 3/0	(3) 3-1/2"	(3) 4"
1600	(4) # 800	(4) # 4/0	(4) 3-1/2"	(4) 4"
2000	(5) # 600	(5) # 250	(5) 3-1/2"	(5) 4"

- GENERAL NOTES:
- THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
  - ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-16 OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THWN.
  - FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.
  - WHERE MULTIPLE CONDUITS ARE INDICATED FOR A SINGLE FEEDER EACH CONDUIT SHALL CONTAIN AN AR, BA, CA, OR GROUND CONDUCTOR, AND NEUTRAL CONDUCTOR.
- FEEDER DESIGNATION
- 200 - 3G
- SYSTEM DESCRIPTION  
(X) 3ø, 3W + GRD  
(3) 3ø, 4W + GRD  
CONDUCTOR AMPACITY  
(SEE FEEDER SCHEDULE)

#	PLAN - SPECIFIC NOTES
1	UNDERGROUND PRIMARY ELECTRICAL SERVICE PROVIDED BY MG&E. COORDINATE INSTALLATION WITH UTILITY AND PROVIDE ALL WORK AND COORDINATION REQUIRED BY UTILITY TO INSTALL SERVICE.
2	PAD MOUNT TRANSFORMER BY MG&E.
3	UNDERGROUND SECONDARY SERVICE CONDUCTORS BY MG&E.
4	SPD MOUNTED ON SWITCHBOARD OR AS CLOSE AS POSSIBLE TO MAIN CIRCUIT BREAKER.
5	COMBINATION CIRCUIT BREAKER AUTOTRANSFORMER REDUCED VOLTAGE STARTERS INSTALLED IN MOTOR CONTROL CENTER. MOTOR CONTROL CENTER ENCLOSURE TO BE NEMA 3R. ADD INCOMING 20" SECTION TO ACCOMMODATE FEEDER.
6	FEEDER SIZE INCREASED TO COMPENSATE FOR VOLTAGE DROP.
7	PROVIDE A C-H POW-R-LINE 3A PANEL OR EQUAL.
8	MOUNT TRANSFORMER ON WALL ABOVE PANEL WITH STEEL CHANNEL SUPPORT RACK.
9	200AMP DISCONNECT LOCATED IN ROOM 115 TO SERVE POWER FOR CAMPING AREA.
10	PROVIDE BUSSMAN TYPE P511481K1GN1B3 POWER MODULE SWITCH.
11	GENERATOR LOCATED OUTSIDE BLDG 2 AREA C. SEE CIVIL DRAWINGS FOR EXACT LOCATION.
12	FEEDER FROM GENERATOR TO PANEL EM MD TO BE HEAVY WALL GALVANIZED STEEL CONDUIT.
13	PROVIDE (5) 4" HEAVY WALL GALVANIZED STEEL CONDUITS FROM SWITCHBOARD TO A POINT OUTSIDE BUILDING AS DIRECTED BY MG&E.
14	PROVIDE (8) 4" HEAVY WALL GALVANIZED STEEL CONDUITS FROM SWITCHBOARD TO A POINT OUTSIDE BUILDING AS DIRECTED BY MG&E.
15	FEEDER TO CAMPGROUND RISER POLE. RUN UP POLE AND PROVIDE SERVICE HEAD. INSTALL POLE, RISER CONDUIT AND SERVICE SO IT CAN BE CONNECTED TO A TEMPORARY UTILITY SERVICE INTENDED TO SERVE TEMPORARY TENT PAVILIONS. PROVIDE TEMPORARY SERVICE FROM MG&E AS DESCRIBED ON SHEET E002 AND IN SPECIFICATIONS.
16	PROVIDE (3) #3 120V CIRCUITS FROM PANEL LEM-C TO SERVE GENERATOR HEATER, BATTERY CHARGER, CONNEXION OUTLET, ETC.
17	PROVIDE ENGRAVED PLASTIC WARNING SIGN "PANEL FED FROM SWITCHBOARD D,E,&F" RED BACKGROUND WITH 1" WHITE LETTERS.
18	PANEL SERVES SF-1 THRU SF-16 AND MAU-2A&2B, SEE PANEL SCHEDULE.
19	PANEL SERVES SF-17 THRU SF-35.
20	PANEL SERVES SF-36 THRU SF-54.

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