

**Alamance Consulting Engineers**

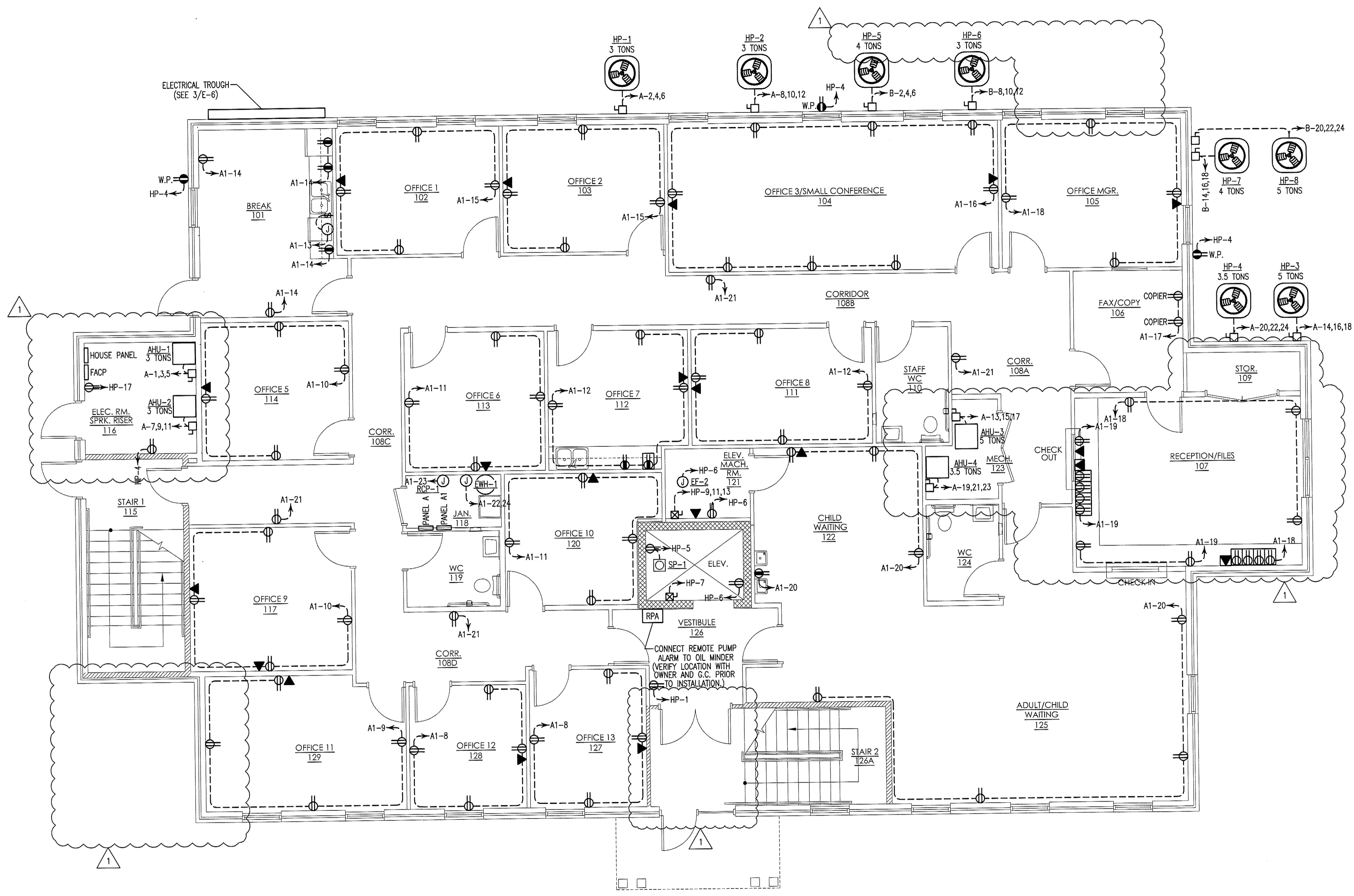
961-F Burlington Ave.  
Gibsonville, N.C. 27249  
Phone: (336) 449-4558  
Fax: (336) 449-5732

**HOUSEWRIGHT BUILDING CO.**

P.O. BOX 786  
CARRBORO, NC 27510  
919-524-2074

**NEW BUILDING FACILITY:  
CBC OFFICE BUILDING**

Hillsborough, North Carolina



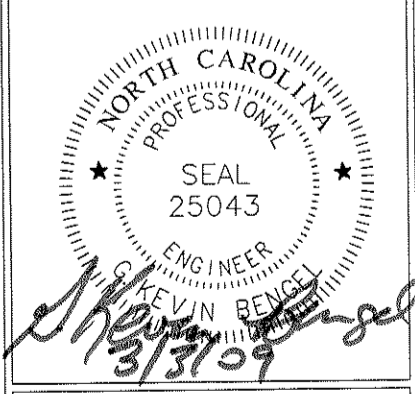
1st FLOOR  
**ELECTRICAL PLAN**  
E-1 SCALE: 3/16" = 1'-0"

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	120V DUPLEX RECEPTACLE
	120V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER
	120V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER WEATHER PROOF
	120V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER MOUNTED UNDER COUNTER
	120V DUPLEX RECEPTACLE MOUNTED UNDER COUNTER
	LOCKABLE FUSED DISCONNECT
	UNFUSED DISCONNECT
	TELE/DATA OUTLET
	TELE/DATA OUTLET MOUNTED UNDER COUNTER
	JUNCTION BOX
	PANEL

WALL LEGEND	
	1HR. RATED GYPSUM WALL
	1HR. RATED MASONRY WALL

REV #	DATE	BY	CHECKED	DESCRIPTION
1	3/3/09	TGW	JNK	REVISED TO SUIT NEW FLOOR PLAN AND RELOCATED AIR HANDLERS AT THE REQUEST OF THE GENERAL CONTRACTOR (A. KNIGHT). REFER TO EMAIL FROM ARCHITECT (D. RIPPERTON) DATED 2-20-09.

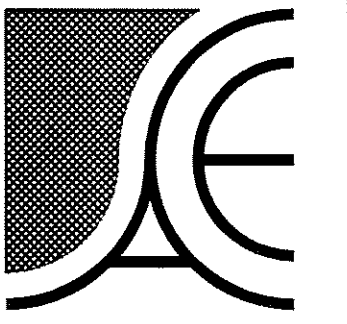
DRAWING NAME  
1st FLOOR  
ELECTRICAL PLAN



DRAWN  
TGW  
CHECKED  
JNK  
DATE  
1/8/09  
SCALE  
AS NOTED  
JOB NO.  
8123  
SHEET

**E-1**

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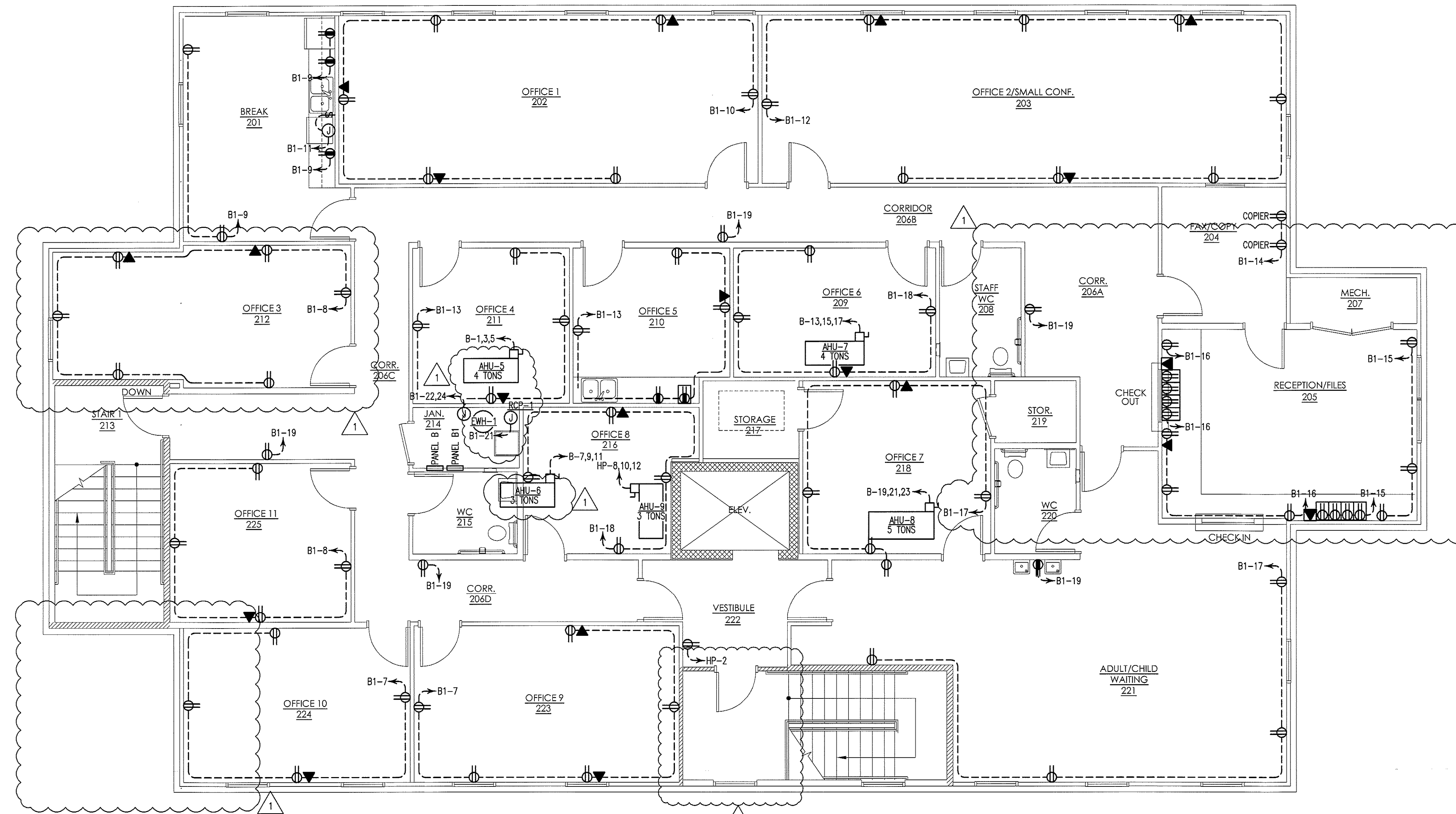
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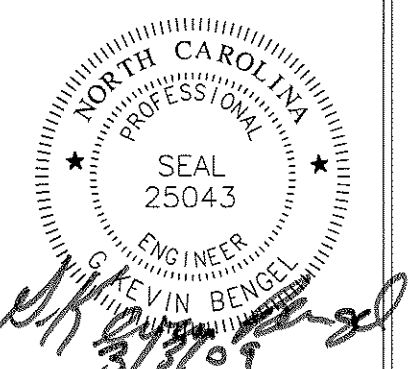
Hillsborough, North Carolina



2nd FLOOR ELECTRICAL PLAN  
SCALE: 3/16" = 1'-0"

WALL LEGEND	
	1HR. RATED GYPSUM WALL
	1HR. RATED MASONRY WALL

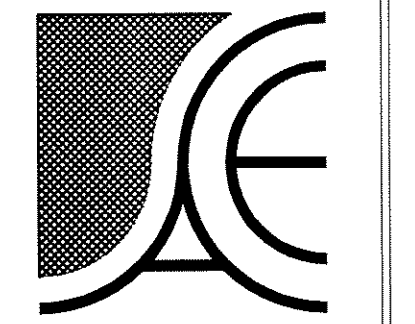
DRAWING NAME:  
2nd FLOOR ELECTRICAL PLAN



DRAWN	TGW
CHECKED	JNK
DATE	1/8/09
SCALE	AS NOTED
JOB NO.	8123
SHEET	

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**E-2**



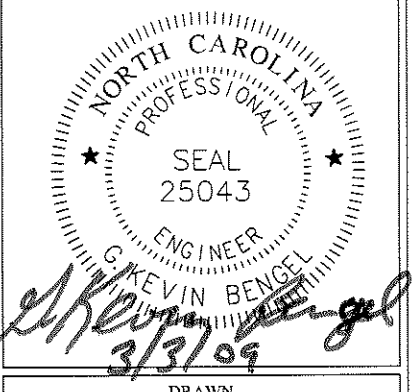
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Hillsborough, North Carolina

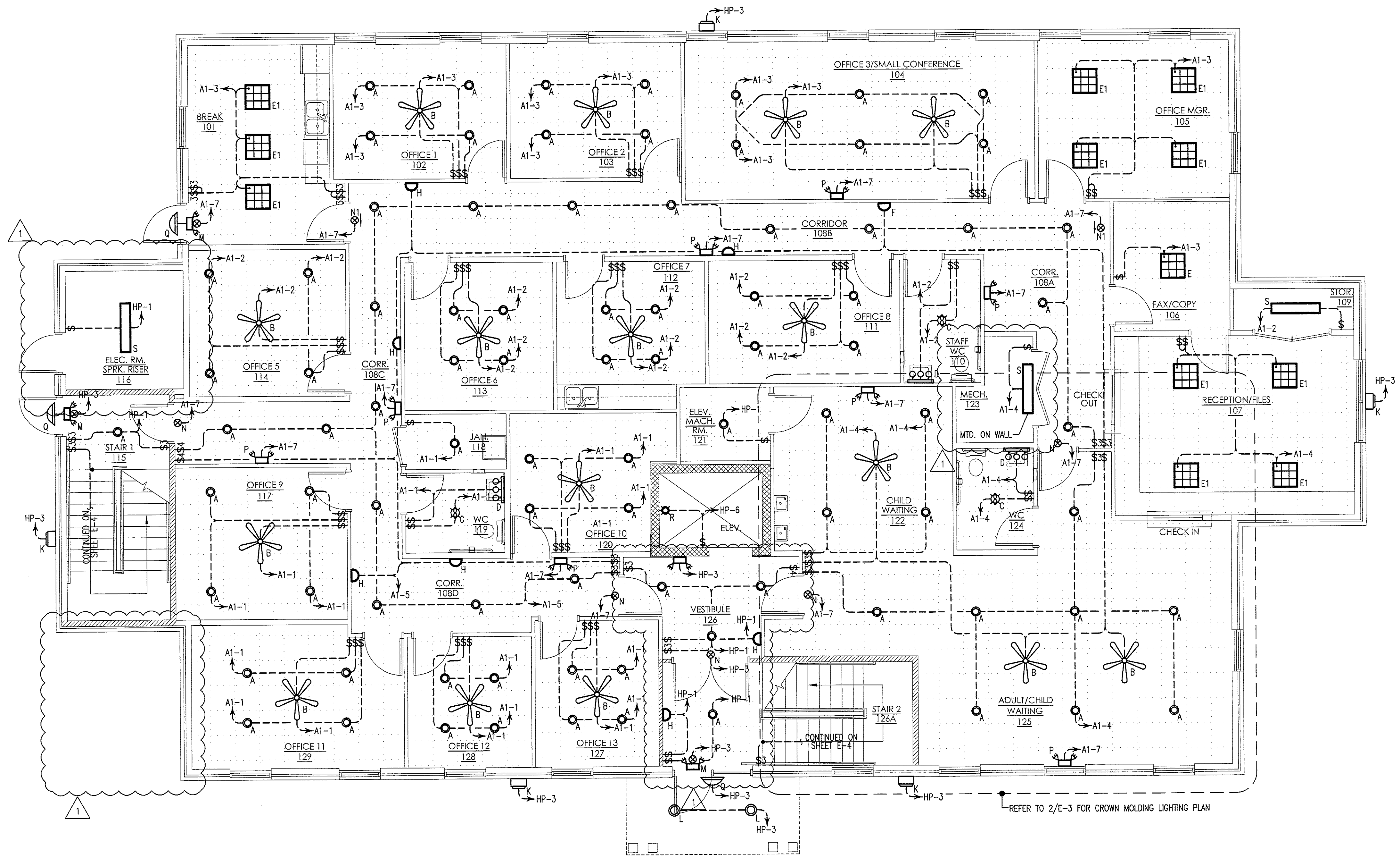
DRAWING NAME  
1st FLOOR LIGHTING PLAN



DRAWN: TGW  
CHECKED: JNK  
DATE: 1/8/09  
SCALE: AS NOTED  
FIG. NO.: 8123  
SHEET

**E-3**

LIGHTING LEGEND		
MARK	SYMBOL	DESCRIPTION
A	○	RECESSED MOUNTED INCANDESCENT CAN LIGHT, 1-LAMP, 50W
B	✱	52" CEILING FAN
C	⊗	BATHROOM EXHAUST FAN/LIGHT COMBO SEE EXHAUST FAN SCHEDULE FOR SPECIFICATIONS
D	⊙	INTERIOR WALL MOUNTED INCANDESCENT VANITY LIGHT, 3-LAMP, 150W
E	⊞	2'x2' LAY-IN FLUORESCENT, 3-TUBE, WITH 9 CELL PARABOLIC LENS, T-8 LAMPS, 3-LAMP ELECTRONIC BALLAST, 51W
E1	⊞	2'x2' LAY-IN FLUORESCENT, 3-TUBE, WITH 9 CELL PARABOLIC LENS, T-8 LAMPS, (1) 2 LAMP AND (1) 1 LAMP ELECTRONIC BALLASTS, 51W
F	⊞	2'x2' LAY-IN FLUORESCENT, 2-TUBE, WITH ACRYLIC LENS, T-8 LAMPS, ELECTRONIC BALLAST, 34W
G	⊞	2'x4' LAY-IN FLUORESCENT, 4-TUBE, WITH ACRYLIC LENS, T-8 LAMPS, ELECTRONIC BALLASTS, 128W
G1	⊞	2'x4' LAY-IN FLUORESCENT, 4-TUBE, WITH ACRYLIC LENS, T-8 LAMPS, (2) 2 LAMP ELECTRONIC BALLASTS, 128W
H	⊞	INTERIOR WALL MOUNTED INCANDESCENT SCONCE LIGHT, 1-LAMP, 100W
J	—	4'-0" 1-TUBE FLUORESCENT STRIP LIGHT WITH REFLECTOR, T-8 LAMPS, ELECTRONIC BALLAST, 40W
K	⊞	WALL PAK, METAL HALIDE, 1-LAMP, 250W
L	○	EXTERIOR MOUNTED COMPACT FLUORESCENT CAN LIGHT, 1-LAMP, 26W
M	⊞	EMERGENCY/EXIT LIGHT WITH BATTERY BACK-UP
N	⊞	EXIT SIGN WITH BATTERY BACK-UP
P	⊞	EMERGENCY LIGHT WITH BATTERY BACK-UP
Q	⊞	DECORATIVE EXTERIOR EMERGENCY LIGHT, TWO 6W XENON LAMPS, W/HIGH-TEMPERATURE NICKEL-CADMIUM BATTERY, LITHONIA #AFN-W-EXT
R	⊞	WALL MOUNTED BRACKET LIGHT, INCANDESCENT, 1-LAMP, 75W
S	—	4'-0" 2-TUBE FLUORESCENT STRIP LIGHT WITH WRAP AROUND ACRYLIC LENS, T-8 LAMPS, ELECTRONIC BALLAST, 64W
--	⊞	SINGLE POLE WALL SWITCH
--	⊞	THREE WAY WALL SWITCH
--	⊞	FOUR WAY WALL SWITCH
--	⊞	SINGLE POLE TANDEM WALL SWITCHES 3 LAMP FIXTURE 1 SWITCH - 1 LAMP BALLAST 1 SWITCH - 2 LAMP BALLAST
--	⊞	4 LAMP FIXTURE 1 SWITCH - 2 LAMP BALLAST 1 SWITCH - 2 LAMP BALLAST
--	⊞	THREE WAY TANDEM WALL SWITCHES 1 SWITCH - 1 LAMP BALLAST 1 SWITCH - 2 LAMP BALLAST

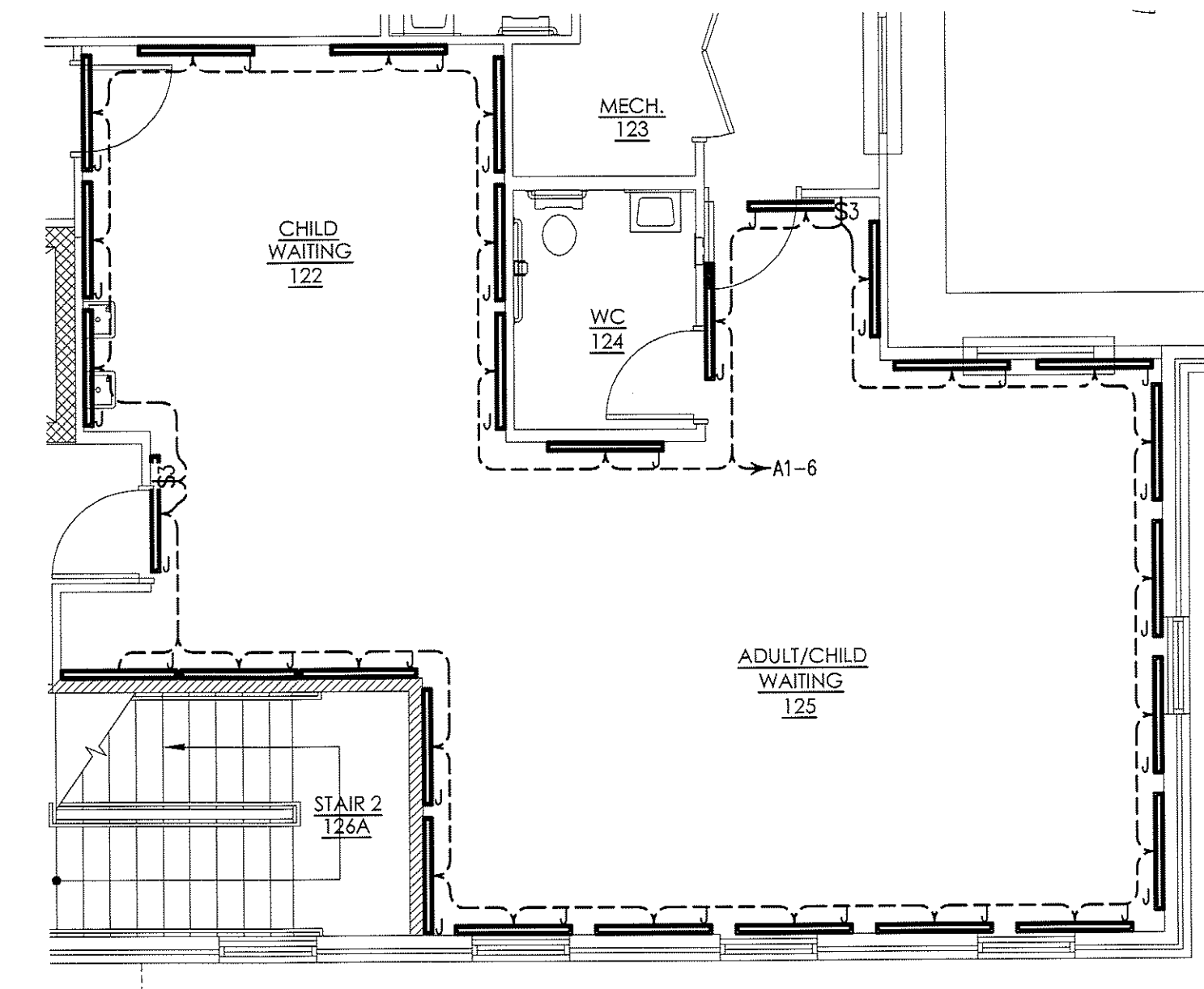


ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE		
PREScriptive	PERFORMANCE	ENERGY COST BUDGET
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROVIDE A STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS FOR CHECK METERING. PROVIDE A STANDARD PANEL SCHEDULE DESCRIPTION WHICH IDENTIFIES DIFFERENT ENDUSE LOADS.		
LIGHTING SCHEDULE (OFFICE - 1st FLOOR)		
LAMP TYPE REQUIRED IN FIXTURE	INCANDESCENT	
BALLAST TYPE USED IN FIXTURE	N/A	
NUMBER OF LAMPS IN FIXTURE		
NUMBER OF BALLASTS IN FIXTURE	N/A	
TOTAL WATTAGE PER FIXTURE	50	
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED	1.1 W/SQ. FT. VS 1.1 W/SQ. FT.	
LIGHTING SCHEDULE (OFFICE - 2nd FLOOR)		
LAMP TYPE REQUIRED IN FIXTURE	FLUORESCENT	
BALLAST TYPE USED IN FIXTURE	ELECTRONIC	
NUMBER OF LAMPS IN FIXTURE	1/2	
NUMBER OF BALLASTS IN FIXTURE	1/2	
TOTAL WATTAGE PER FIXTURE	128	
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED	1.05 W/SQ. FT. VS 1.1 W/SQ. FT.	
LIGHTING SCHEDULE (VESTIBULE)		
LAMP TYPE REQUIRED IN FIXTURE	INCANDESCENT	
BALLAST TYPE USED IN FIXTURE	N/A	
NUMBER OF LAMPS IN FIXTURE		
NUMBER OF BALLASTS IN FIXTURE	N/A	
TOTAL WATTAGE PER FIXTURE	50	
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED	1.21 W/SQ. FT. VS 1.3 W/SQ. FT.	
EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)		
MOTOR HORSEPOWER	N/A	HP
NUMBER OF PHASES		Φ
MINIMUM EFFICIENCY		%
MOTOR TYPE		
# OF POLES		
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF NORTH CAROLINA STATE BUILDING CODE.		

\* EXTERIOR LIGHTS MUST HAVE MINIMUM EFFICACY OF 45 W/LUMEN.

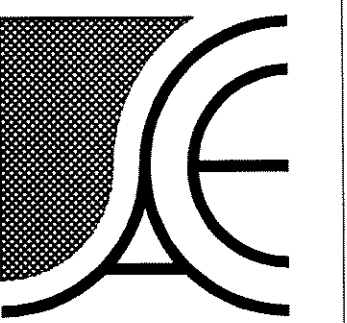
1st FLOOR LIGHTING PLAN  
SCALE: 3/16" = 1'-0"

WALL LEGEND	
▨	1HR. RATED GYPSUM WALL
▩	1HR. RATED MASONRY WALL



ENLARGED LIGHTING PLAN  
SCALE: 3/16" = 1'-0"

REV #	DATE	BY	CHECKED	DESCRIPTION
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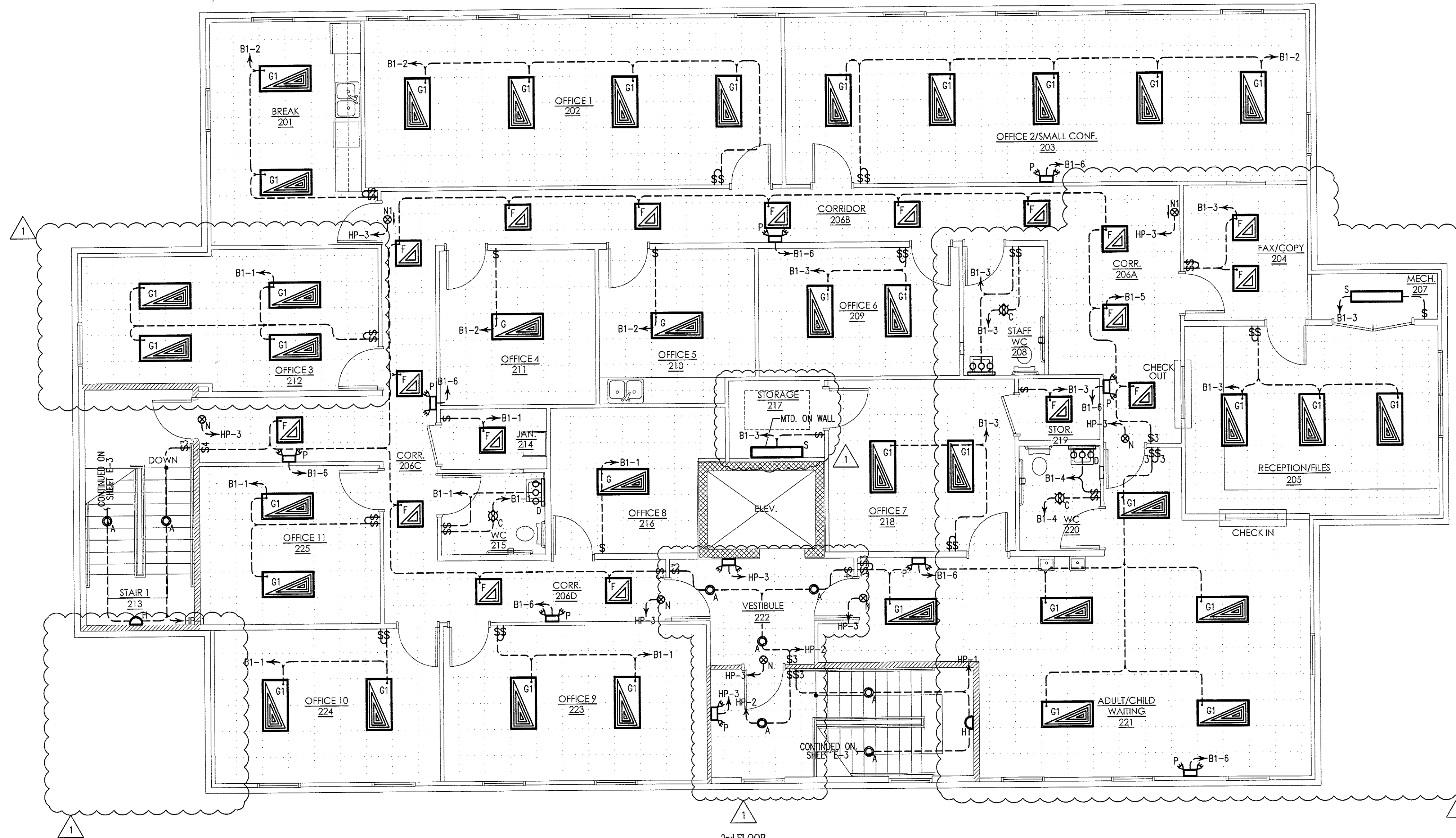
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2nd FLOOR LIGHTING PLAN  
E-4 SCALE: 3/16" = 1'-0"

WALL LEGEND	
	1HR. RATED GYPSUM WALL
	1HR. RATED MASONRY WALL

DRAWING NAME  
2nd FLOOR LIGHTING PLAN



DRAWN  
TGW  
CHECKED  
JNK  
DATE  
1/8/09  
SCALE  
AS NOTED  
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8123  
SHEET

**E-4**

REV #	DATE	BY	CHECKED	DESCRIPTION
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