



3315 N Oak Trafficway | Kansas City, MO 64116
816 | 888 | 7380
NP Studio North, LLC
Missouri Certificate of Authorization No. A-201 7040540

PLUMBING	DESIGN-BUILD BY GEN CONTRACTOR
MECHANICAL	DESIGN-BUILD BY GEN CONTRACTOR
ELECTRICAL	DESIGN-BUILD BY GEN CONTRACTOR
FIRE PROTECTION	DESIGN-BUILD BY GEN CONTRACTOR
CONTRACTOR	FORGE CONSTRUCTION

H&R BLOCK
DEPOT

1220 NW Main St
Lee's Summit, MO 64086

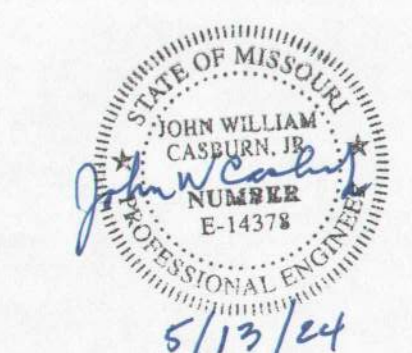
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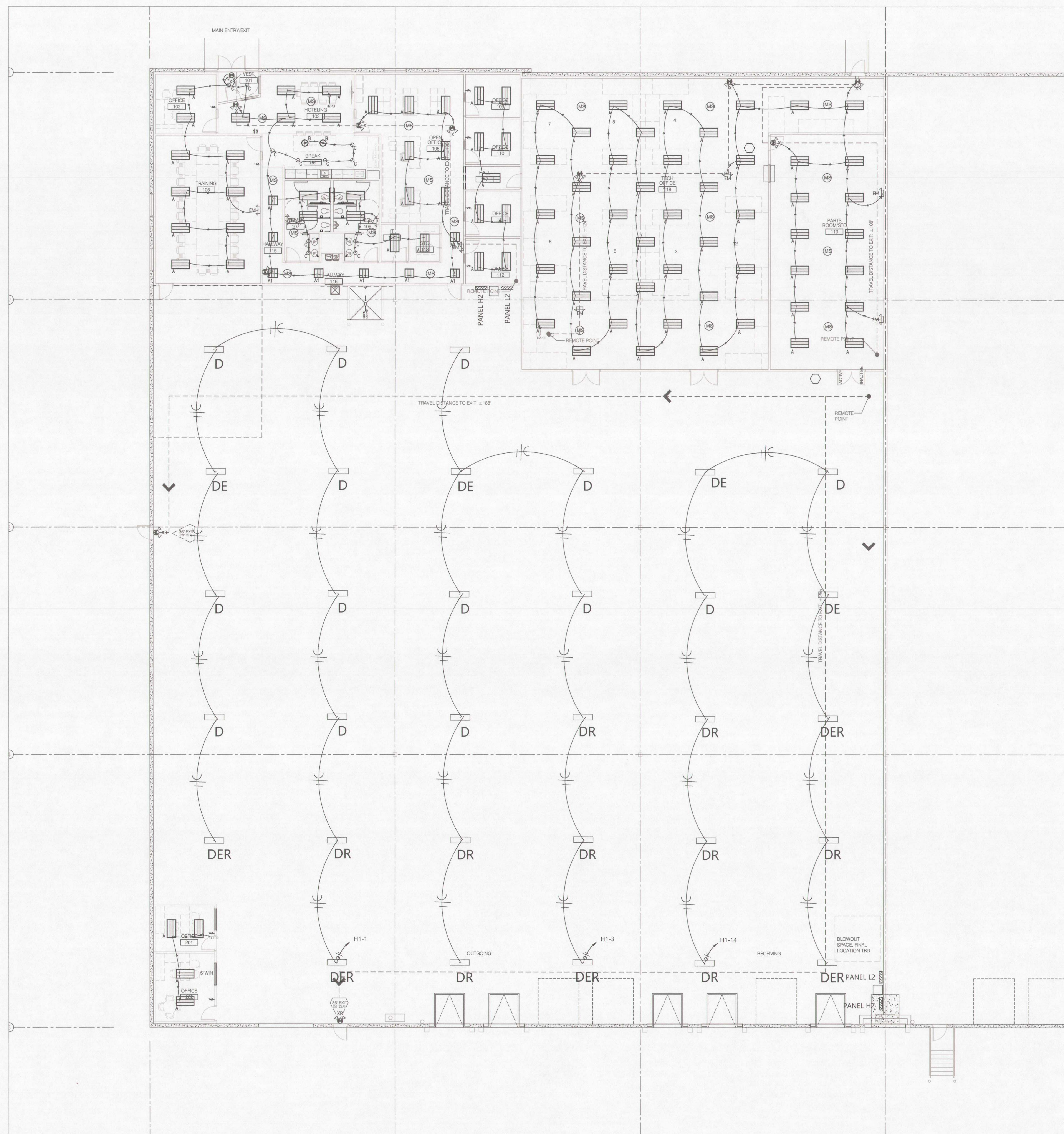


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E1.00
LIGHTING



1 OVERALL FLOOR PLAN
Scale: 1/8" = 1'-0"

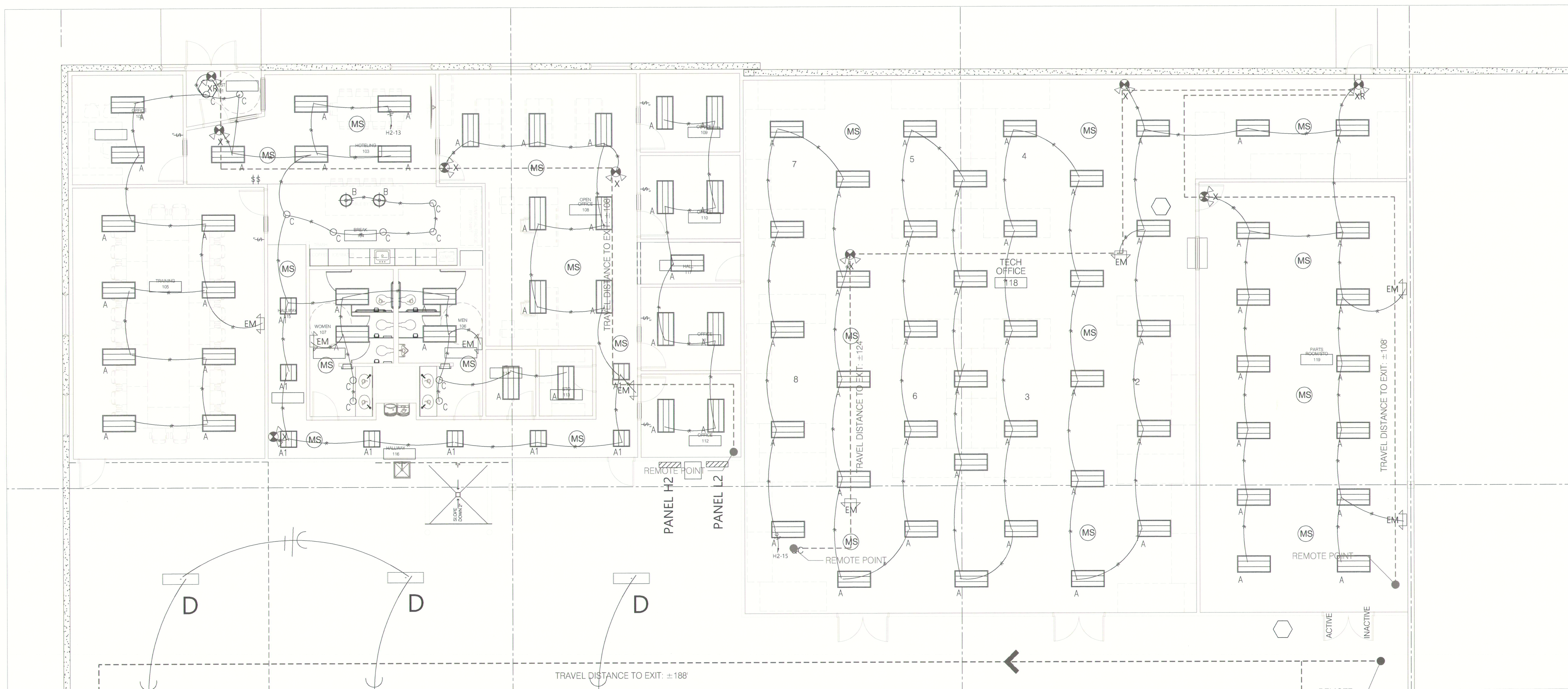
\\H:\COMPANY SHARED\JEREIN\AUTOCAD DRAWINGS\H AND R BLOCK\HR BLOCK DEPOT ELECTRICAL DWG - 5/8/2024 10:51:45 AM - jhanson



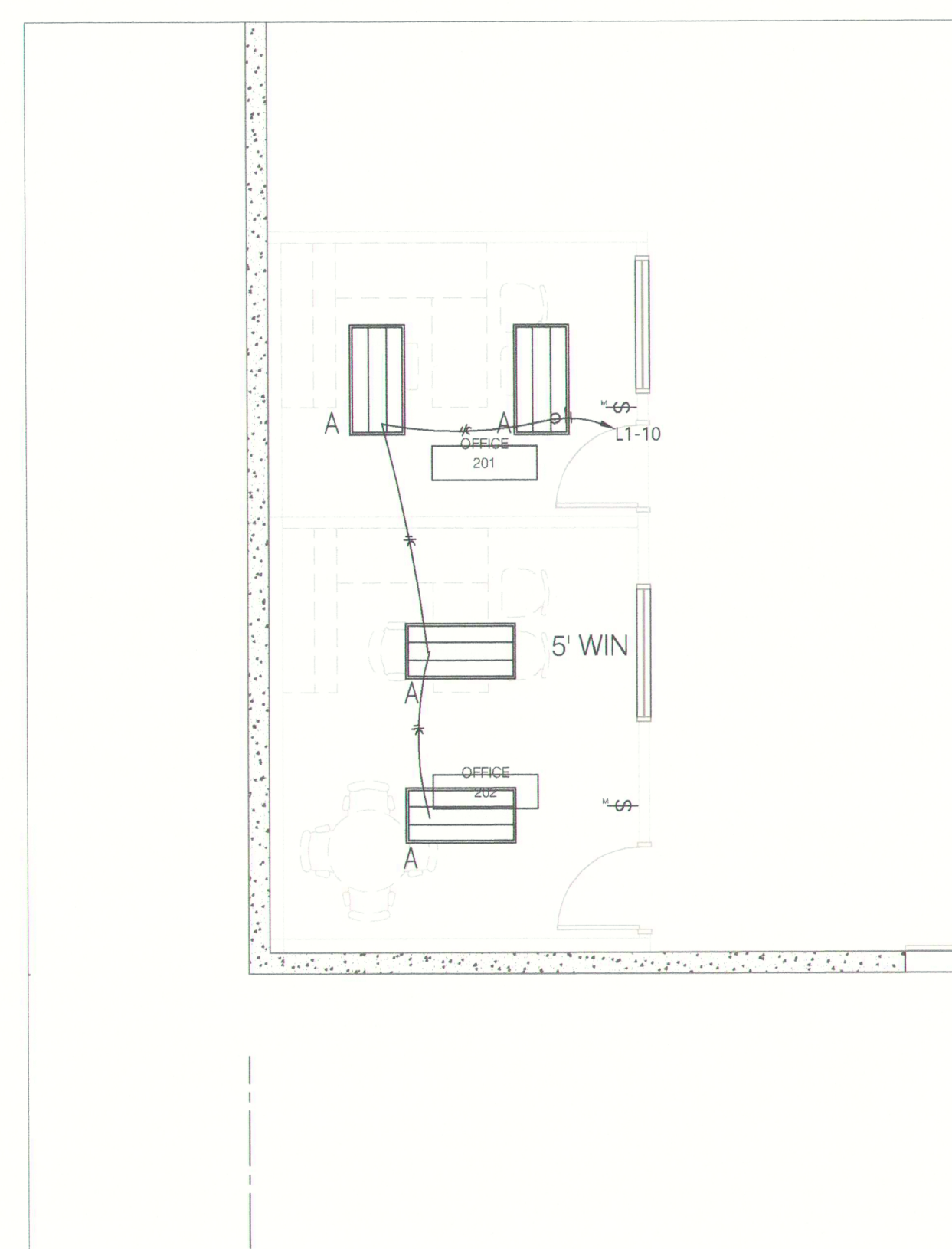
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1 ENLARGED FLOOR PLAN
Scale: 3/16" = 1'-0"
PLAN TRUE



2 ENLARGED FLOOR PLAN
Scale: 3/16" = 1'-0"
PLAN TRUE

TENANT IMPROVEMENTS FOR:

H&R BLOCK
DEPOT

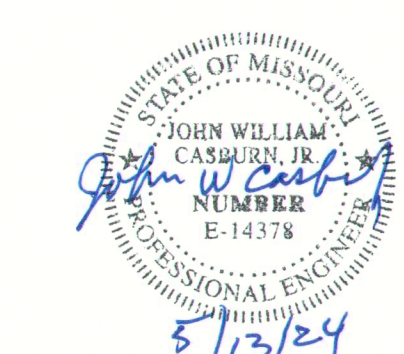
1220 NW Main St.
Lee's Summit, MO 64086

Project No.	2024-032	
Date:	04.26.24	
Issued For:	Permit Submittal	
Drawn By:	F. Crubaugh	
Reviewed By:		
Revisions:		
No.	Date	Description

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E1.10
ENLARGED LIGHTING



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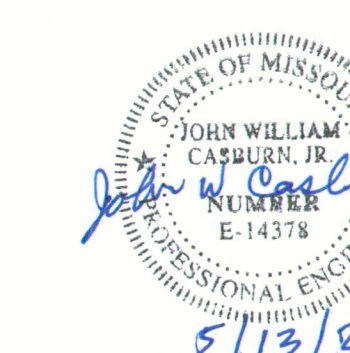
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E2.00
POWER



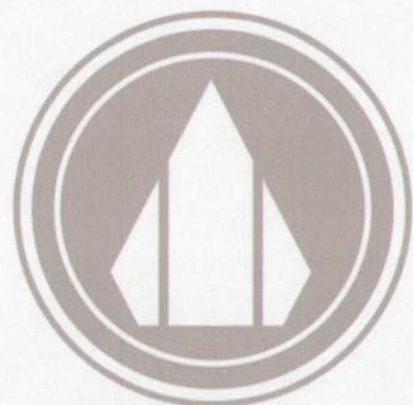
1 OVERALL FLOOR PLAN
Scale: 1/8" = 1'-0"

Scale: 1/8" = 1'-0"



Figure 1 consists of two circular diagrams. The left diagram shows a circle with a horizontal diameter and a vertical radius. A shaded sector is formed by the vertical radius and the arc. The right diagram shows a circle with a horizontal diameter and a vertical radius. A shaded sector is formed by the vertical radius and the arc.

\\H:\COMPANY SHARED\JEREMY\AUTOCAD DRAWINGS\H AND R BLOCK\HR BLOCK DEPOT ELECTRICAL.DWG : 5/9/2024 10:51:45 AM : jhansen



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DEPOT

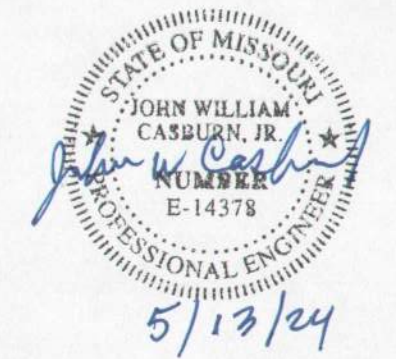
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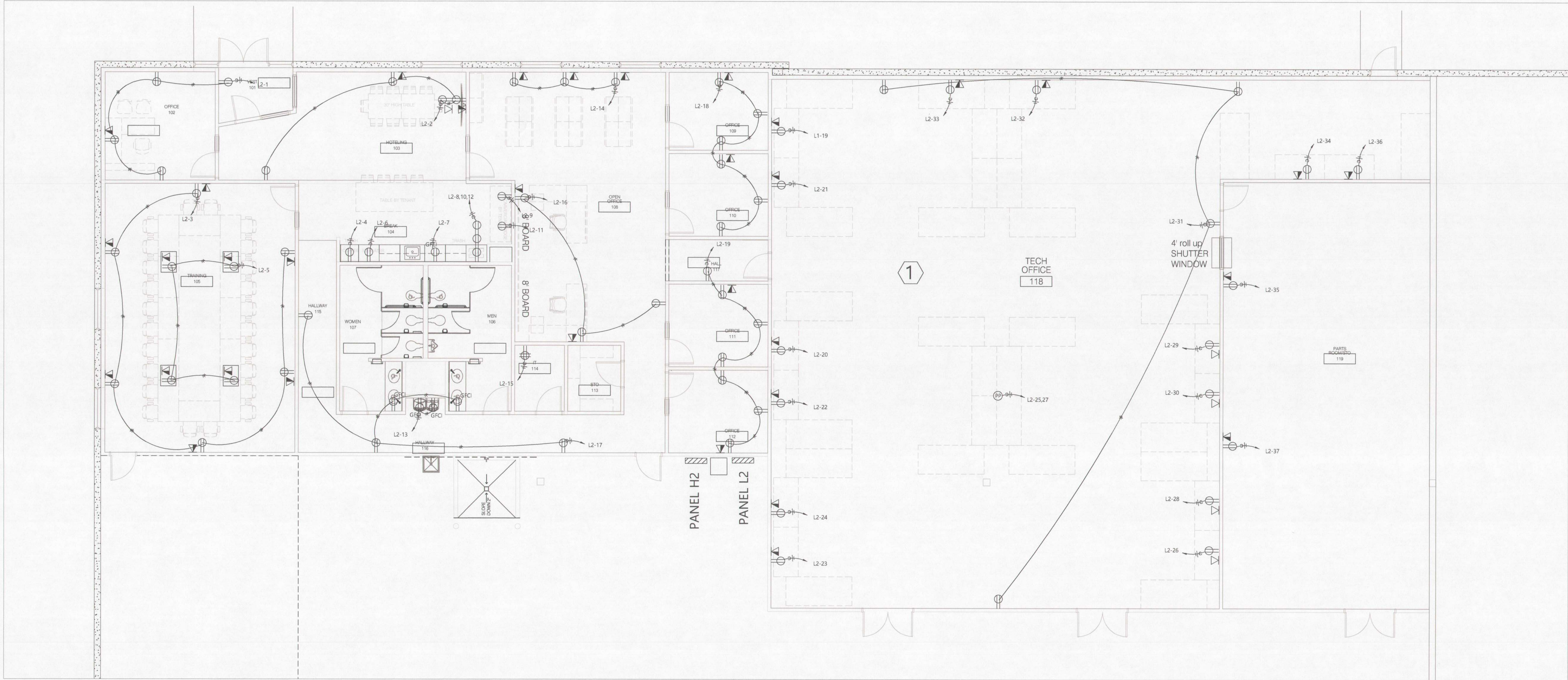
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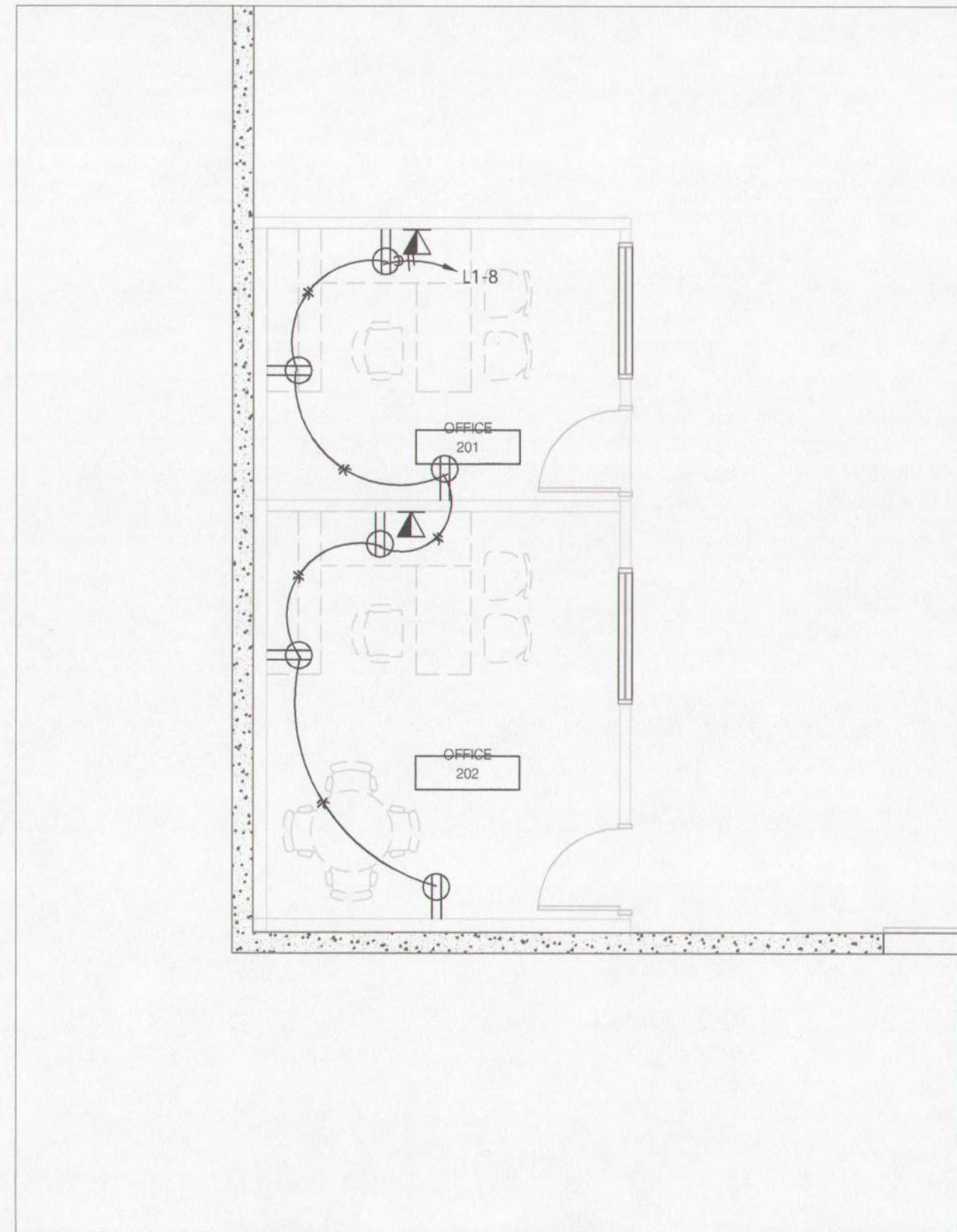
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E2.10
ENLARGED POWER

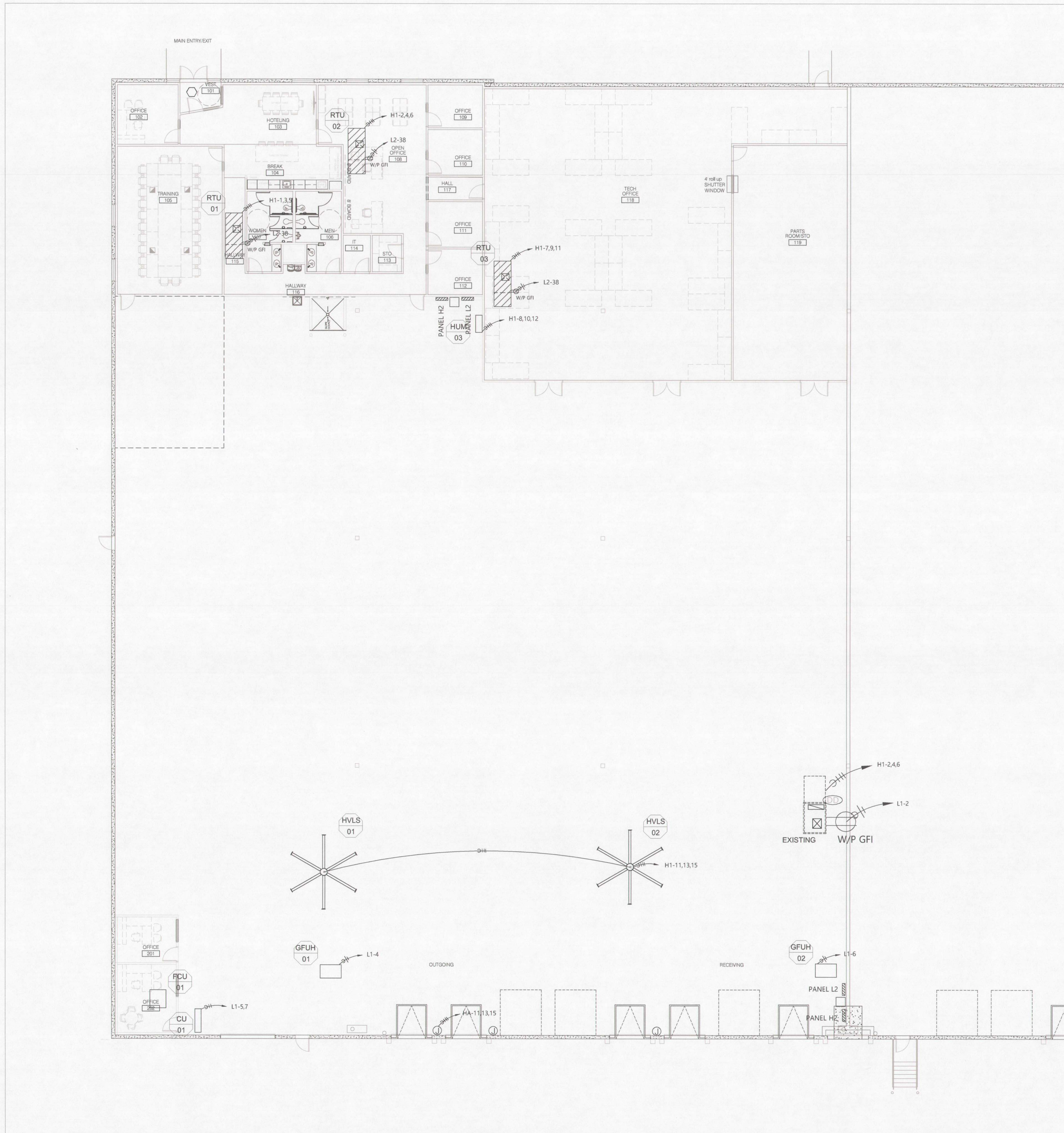


1 ENLARGED FLOOR PLAN
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PLAN TRUE



2 ENLARGED FLOOR PLAN
Scale: 3/16" = 1'-0"
PLAN TRUE

H:\COMPANY SHARED\HERITAGE\AUTOCAD DRAWINGS\H&R BLOCK\H&R BLOCK DEPOT ELECTRICAL.DWG 3/9/2024 10:51:46 AM - jharmon



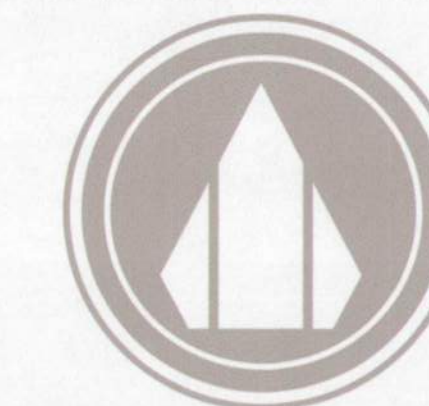
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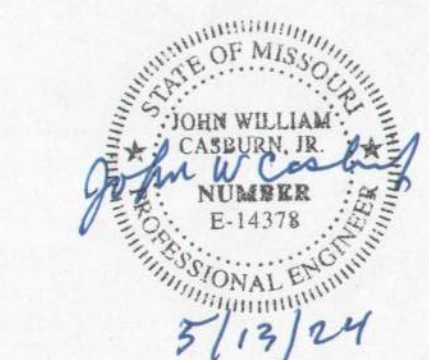
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TENANT IMPROVEMENTS FOR:

H&R BLOCK
DEPOT

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E3.00
HVAC POWER



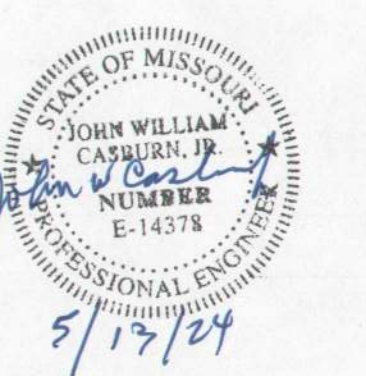
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PIPE PROTECTION	DESIGN-BUILD BY GEN CONTRACTOR
CONTRACTOR	FORGE CONSTRUCTION

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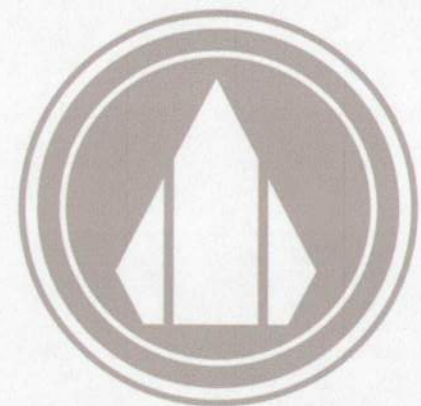
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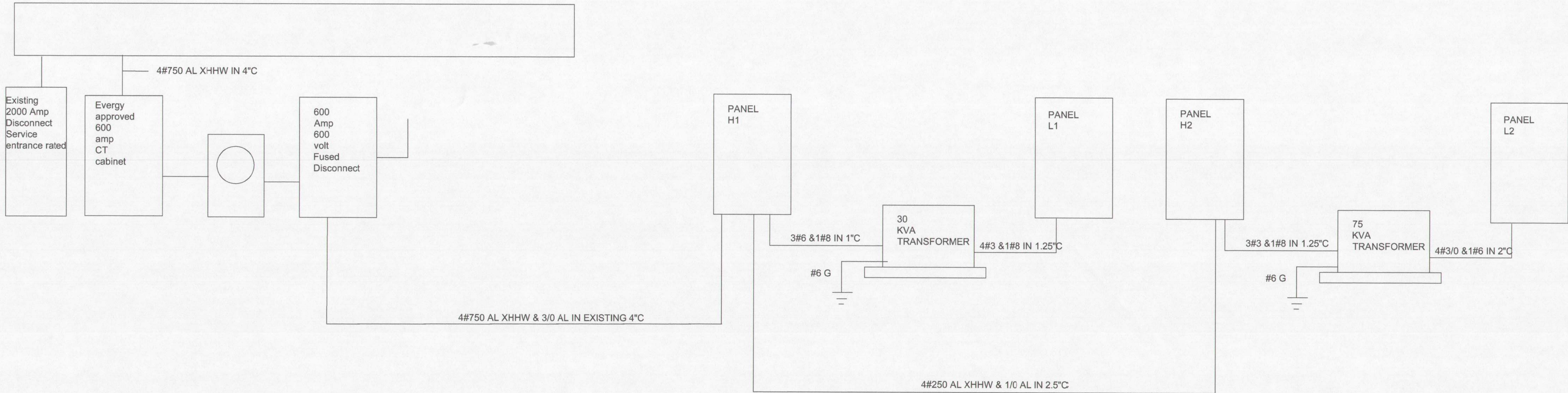
E3.10

ENLARGED HVAC



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1 RISER DIAGRAM

Scope:
Provide electrical for new TI
All Electrical work shall be as per NEC 2017.
All work shall be done by qualified electricians.
All branch wiring shall be copper.
Devices shall be 20a commercial grade and color shall be by architect.

- SPECIFICATIONS
- CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED
 - CONDUIT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED
 - CONNECTIONS SHALL BE MADE USING SET SCREW CONNECTORS
 - MC CABLE IS ACCEPTABLE FOR FINAL CONNECTIONS TO LIGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS
 - BRANCH WIRING SHALL BE #12 THHN COPPER UNLESS OTHERWISE NOTED
 - WIRING SHALL BE AS PER CURRENT NEC 2005
 - WIRING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP
 - INSTALLATION SHALL ADHERE TO ADA STANDARDS
 - ALUMINUM XHHW-#2 CABLE MAY BE USED FOR FEEDERS LARGER THEN #2 OTHERWISE COPPER
 - REFER TO KCP8L STANDARDS MANUAL FOR 480 SERVICES
 - ALL LIGHTING/EQUIPMENT IN WARE-HOUSE SHALL BE MOUNTED TO PROVIDE A MIN OF 36" CLEAR HEIGHT

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART*

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND CONDUIT SIZE	THREE PHASE 3 WIRE + GND CONDUIT SIZE	THREE PHASE 4 WIRE + GND CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	8 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	8 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	6 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	4 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	3 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

NOTES:
UNLESS OTHERWISE NOTED ON THE DRAWINGS
UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.
ALL SIZING BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.
ELECTRICAL FIELD PERSONAL RESPONSIBLE FOR VOLTAGE DROP CALCULATIONS.

ELECTRICAL GENERAL NOTES

- WORK INCLUDED: FURNISH ALL LABOR, MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, ERECTION, INSTALLATION CONNECTIONS, TESTING AND ADJUSTMENTS OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN, OR NOTED ON THE DRAWINGS, AND ITS DELIVERY TO THE OWNER COMPLETE IN ALL RESPECTS READY FOR USE.
- CONTRACT DRAWINGS THE CONTRACT DRAWINGS ARE SHOWN IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, INDICATING THE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. VERIFY SPACES FOR THE INSTALLATION OF THE MATERIALS BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED. IF A QUESTION EXISTS AS TO THE EXACT INTENDED LOCATION OF OUTLETS OR EQUIPMENT, OBTAIN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.
- MINIMUM SIZE OF CONDUIT SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- ALL WIRING FOR LIGHTING, RECEPTACLE AND POWER CIRCUITS WHERE NOT SHOWN ON DRAWINGS SHALL BE WITH #12 CONDUCTORS, NUMBER AS REQUIRED IN CONDUIT SIZED PER N.E.C. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR ALL BRANCH CIRCUITS AND FEEDERS, HOMERUNS TO PANEL SHALL BE IN INDIVIDUAL CONDUITS, UNLESS NOTED OTHERWISE, WITH CIRCUITS AS SHOWN.
- THE USE OF TYPE 'MC' AND TYPE 'AC' CABLE IS PERMITTED IN ALL AREAS PER NEC AND LOCAL CODE REQUIREMENTS.
- THE USE OF ALUMINUM CONDUCTORS WITH AMPACITY EQUIVALENT TO COPPER IS PERMITTED IN ALL AREAS PER NEC REQUIREMENTS.
- ALL JUNCTION BOXES, PULL BOXES, AND PANELBOARDS SHALL BE RIGIDLY ATTACHED TO STRUCTURE.
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- ALL CONDUIT, BOXES, ETC. SHALL BE CONCEALED OR MOUNTED FLUSH WITH CEILING OR WALL CONSTRUCTION, CONDUITS SHALL BE MOUNTED AS HIGH AS POSSIBLE. NO SURFACE MOUNTED CONDUIT, BOXES, ETC. WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER PRIOR TO INSTALLATION. ALL CONDUIT PENETRATIONS SHALL BE FIRE-CAULKED AS REQUIRED.

SYMBOLS & LEGEND	
	CONDUIT ABOVE GRADE
	CONDUIT BELOW GRADE
	SINGLE POLE SWITCH
	TWO POLE SWITCH
	THREE-WAY SWITCH
	CEILING MOUNTED MOTION SENSOR
	WALL MOUNTED MOTION SENSOR
	EMERGENCY LIGHTING
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTABLES
	DUPLEX RECEPTACLE MOUNTED ON CEILING
	GFCI RECEPTACLE
	GFCI FOUR-WAY RECEPTACLE
	FLUSH MOUNTED RECEPTACLE
	COMMUNICATION DATA / VOICE OUTLET
	PUSH BUTTON
	DISCONNECT BOX
	DISCONNECT SWITCH
	STARTER
	COMBINATION DISCONNECT AND STARTER
	PANELBOARD
	GROUND FAULT INTERRUPTING
	WEATHERPROOF
	ISOLATED GROUND
	ABOVE COUNTER
	WEATHERPROOF GROUND FAULT INTERRUPTING

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	LITHONIA LIGHTING	STAKS-2X4-AL06-SWW7	LED	CEILING	UNV	OR EQUAL
A1	LITHONIA LIGHTING	STAKS-2X2-AL03-SWW7	LED	CEILING	UNV	OR EQUAL
B	LIGHTART	22" ACOUSTIC EMPIRE SHADE, OUTSIDE SHADE DUNE, INSIDE SHADE ZINC WHITE CANOPY CORD AND FRAME 4000K DIMMABLE 800 LUMEN 54 DEGREE FLOOD	LED	CEILING	UNV	
C	LITHONIA LIGHTING	LDN6-AL02-SWW1-LOS-AR-LSS-MVO LT	LED	CEILING	UNV	OR EQUAL
D	HE WILLIAMS	GH-2-L300-840-FA-DIM-UNV	LED	CEILING	277	PROVIDE WITH INTEGRAL MOTION SENSOR
DR	EXISTING TO RELOCATE					
DE	HE WILLIAMS	GH-2-L300-840-FA-DIM-UNV	LED	CEILING	277	SAME AS TYPE D ONLY WITH EM BALLAST
DER	EXISTING TO RELOCATE					
EM	COMPASS	CUS2Q	LED	WALL	UNV	OR EQUAL
X1	Compass	CCR	LED	WALL	UNV	OR EQUAL
EX	COMPASS	CCR	LED	WALL	UNV	EXISTING
ERH	COMPASS	CUWZ-PC	LED	WALL	UNV	EXISTING

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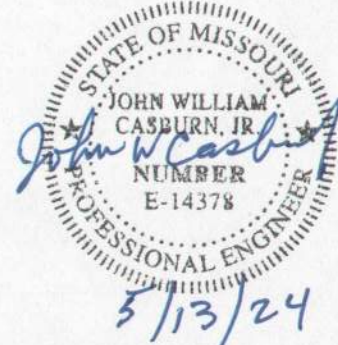
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E4.00
RISER

PANEL: H1										NEW									
CCT	SERVICES	VA	OCF	WIRE	PHASE	WIRE	OCF	VA	SERVICES	CCT	CONN	NEC	DEM	LOAD BALANCE PER PHASE					
1	WAREHOUSE LIGHTS	2475	201	2#12-1#12G	A	2#12-1#12G	253	4432	MAU-1 EXISTING	2									
3	WAREHOUSE LIGHTS	2475	201	2#12-1#12G	B	2#12-1#12G		4432		4									
5	OVERHEAD DOOR	200	203	4#10-1#12G	C	2#12-1#12G		4432		6									
7		200			A		2003	41955	PANEL H2	8									
9		200			B			41955		10									
11	HVLS FAN	1000	203	4#10-1#12G	C			39565		12									
13		1000			A		303	5400	BATTERY CHARGER	14									
15		1000			B			5400		16									
17	WAREHOUSE LIGHTS	2250			C			5400		18									
19	OVERHEAD DOOR POWER	1500	203		B		303	5400	BATTERY CHARGER	20									
21		1500			A			5400		22									
23		1500			C			5400		24									
25	INSTAPAK MACHINE	3400	203		A					26									
27		3400			B					28									
29		3400			C					30									
31					A					32									
33					B					34									
35					C					36									
37					A	3#8-1#10G		1003	6640	TRANSFORMER	38								
39					B			-	4900	TRANSFORMER	40								
41					C			-	4640	TRANSFORMER	42								
NOTES:										LOAD SUMMARY									
1 NEMA 1 ENCLOSURE										1 LIGHTING									
2 PROVIDE BOLT ON BREAKERS										2 RECEPTACLES									
3										3 KITCHEN									
										4 HVAC									
										5 NON-CONT									
										LARGEST MOTOR									
										TOTAL VA									
										TOTAL AMPS									

PANEL: L1										NEW									
CCT	SERVICES	VA	OCF	WIRE	PHASE	WIRE	OCF	VA	SERVICES	CCT	CONN	NEC	DEM	LOAD BALANCE PER PHASE					
1	DOCK POWER	800	201	2#12-1#12G	A	2#12-1#12G	201	840	GFCI RECEPTACLE	2									
3	DOCK POWER	600	201	2#12-1#12G	B	2#12-1#12G	201	840	GFCI 1	4									
5	CU-1	2600	253	2#12-1#12G	C	2#12-1#12G	201	840	GFCI 2	6									
7		2600	201	2#12-1#12G	A	2#12-1#12G	201	1200	OFFICE RECEPS	8									
9	WAREHOUSE RECEP	1200	201	2#12-1#12G	B	2#12-1#12G	201	220	OFFICE LIGHTS	10									
11	WAREHOUSE RECEP	1200	201	2#12-1#12G	C	2#12-1#12G	201			12									
13	WAREHOUSE RECEP	1200	201	2#12-1#12G	A	2#12-1#12G	201			14									
15	WAREHOUSE RECEP	1200	201	2#12-1#12G	B	2#12-1#12G	201			16									
17			201	2#12-1#12G	C	2#12-1#12G	201			18									
19			201	2#12-1#12G	A	-	201		SPARE	20									
21			201	2#12-1#12G	B	-	201		SPARE	22									
23	SPARE		201	-	C	-	201		SPARE	24									
25	SPARE		201	--	A	--	201		SPARE	26									
27	SPACE			--	B	--			SPACE	28									
29	SPACE			--	C	--			SPACE	30									
31	SPACE			--	A	--			SPACE	32									
33	SPACE			--	B	--			SPACE	34									
35	SPACE			--	C	--			SPACE	36									
37	SPACE			-	A	-			SPACE	38									
39	SPACE			-	B	-			SPACE	40									
41	SPACE			-	C	-			SPACE	42									
NOTES:										LOAD SUMMARY									
1 NEMA 1 ENCLOSURE										1 LIGHTING									
2 PROVIDE BOLT ON BREAKERS										2 RECEPTACLES									
3										3 KITCHEN									
										4 HVAC									
										5 NON-CONT									
										LARGEST MOTOR									
										TOTAL VA									
										TOTAL AMPS									

PANEL: H2						200A		MLO		277V		480 V, 3PH, 4W.+GRND.		NEW PANEL					
CCT	SERVES		VA	OCF	WIRE	PHASE	WIRE		OCF	VA	SERVES		CCT						
1	RTU 1				3011	203	3#12, 1#12G	A	3#12, 1#12G		203	3011	RTU 2	2					
3					3011			B				3011		4					
5					3011			C				3011		6					
7	RTU 3				6948	253	3#10, 1#12G	A	3#10, 1#12G		303	6925	HUM-1	8					
9					6948			B				6925		10					
11					6948			C				6925		12					
13	OFFICE LIGHTING				2970	201	2#12, 1#12G	A						14					
15	OFFICE LIGHTING				2955	201	2#12, 1#12G	B						16					
17								C						18					
19								A						20					
21								B						22					
23								C						24					
25								A						26					
27								B						28					
29								C						30					
31								A						32					
33								B						34					
35								C						36					
37								A	3#3 1#8G		1003	1820	TRANSFORMER	38					
39								B			-	1820	TRANSFORMER	40					
41								C			-	1820	TRANSFORMER	42					

NOTES:		LOAD SUMMARY													
		CONN		NEC		DEM		LOAD BALANCE PER PHASE							
1 NEMA 1 ENCLOSURE		5363		1.25		8706.25		PHASE A						41663	
2 PROVIDE BOLT ON BREAKERS		55460		NEC		32730		PHASE B						41680	
3		0		0.85		0		PHASE C						36995	
		82225		1		62325		LOWEST PHASE PLUS 10%						43564.5	
		0		1		0		36995						+ 10%	43564.5
LARGEST MOTOR		0		0.25		0		PHASES ARE BALANCED							
TOTAL VA		123150				101781.25									
TOTAL AMP'S		148.1				122.4									