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PERMIT NUMBER: B 23000508

DATE ACCEPTED:

FEB 16 2023



COMMERCIAL BUILDING PERMIT APPLICATION

HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS LICENSES & PERMITS DIVISION
3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4
www.howardcountymd.gov

BUILDING SITE ADDRESS REQUIRED

Street Address: 6660 Dobbin Road Unit: J
City: Columbia State: MD Zip Code: 21045
Subdivision/Village/Complex Name: 0000 SDP/WP/BA #: SDP-84-284
Lot: A2 Tax Map: 0036 Parcel: 0366 Grading Permit #: n/a

DESCRIPTION OF WORK REQUIRED

Existing Use: warehouse Proposed Use: auto repair Estimated Cost: \$45,000.00
Trade Work to Be Completed (Separate Permits Required): Mechanical (HVACR) Electrical Plumbing None
Installing 5 car lifts in existing warehouse

PROPERTY OWNER INFORMATION REQUIRED

Owner(s) Name(s) (As it appears on tax records): 6656 Dobbin Road Investors LLC
Owner's Street Address: 13516 Narrow Leaf Ct.
City: Clarksville State: Maryland Zip Code: 21059
Phone: (301) 412-4422 Email: malhiproperties@gmail.com

TENANT INFORMATION REQUIRED

Business Name: Smart Turn Auto Contact Name: Jesse Simpson
Street Address: 6660 Dobbin Road
City: Columbia State: Maryland Zip Code: 21045
Phone: (610) 763-2590 Email: jessesimpson@comcast.net

APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION

Business Name: DLHindman, Inc. Contact Name: David L. Hindman
Street Address: 7958 Lakecrest Drive
City: Greenbelt State: Maryland Zip Code: 20770
Phone: (301) 275-3111 Email: dlhecorp@aol.com

CONTRACTOR INFORMATION REQUIRED

Business Name: Tenant acting as General Contractor
Licensee's Name: License #:
Street Address:
City: State: Zip Code:
Phone: Email:

ARCHITECT/ENGINEER INFORMATION REQUIRED - INDIVIDUAL WHO SIGNED PLANS

Business Name: Snyder AE Design Services Name: Allen A. Snyder
Street Address: 493 Parkview Estates Lane
City: Luray State: VA Zip Code: 22835
Phone: (540) 843-2535 Email: snyder.al@verizon.net

BUILDING CHARACTERISTICS (PLEASE SELECT/COMPLETE ALL THAT APPLY)

Utilities: Electric Gas Water Supply: Public Private (Well) Sewage Disposal: Public Private (Septic)
Heating System: Electric Natural Gas Propane Other: Roadside Tree Project: No Yes:#
Sprinkler System: NFPA 13 NFPA 13R None Fire Alarm System: Yes No Voice Evac

ADDITIONAL COMMERCIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)

Area of Construction: 5,537 sq ft Gross Area: 5,537 sq ft Height: 17 ft # of Stories: 1
Construction Classification(s): IIB Use Group: S-1
Was the tenant space previously occupied? Yes No Shell Building Permit # (for interior completions): N/A

ADDITIONAL MULTI-FAMILY INFORMATION IF APPLICABLE

# of efficiency units (MF): # of 1 BR (MF): # of 2 BR (MF): # of 3 BR (MF):
Energy Method: Performance UA Alternative ERI A 90.1 Gross Area: sq ft Occupiable Area: sq ft

AGREEMENT/ DISCALIMER REQUIRED

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES
Signature: David L. Hindman Date Signed: 2/16/23

FOR OFFICE USE ONLY

CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

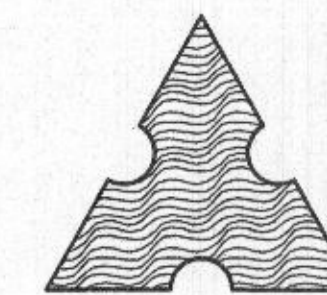
AGENCIES REQUIRED/APPROVALS: PR DPZ DED Health SHA CID
SUBMITTAL FEES: 200 PAYMENT: 1759 ACCEPTED BY: [Signature]

Andman Inc.

# SMART TURN AUTO REPAIR

## 6660 DOBBIN RD, STE J

### COLUMBIA, MD 21045



SMART TURN  
AUTO REPAIR, INC.  
6660 DOBBIN RD, STE J  
COLUMBIA, MD 21045

D.L. HINDMAN, INC.  
CONSULTING SERVICES  
7958 LAKECREST DRIVE,  
GREENBELT MD 20770  
(301) 275-3111

## SCOPE OF WORK

USE AND OCCUPANCY PERMIT FOR AUTO REPAIR USE IN EXISTING WAREHOUSE SPACE, TO INSTALL 5 AUTO LIFTS AND FUTURE INSTALL OF 5 ADDITIONAL AUTO LIFTS AND AIR COMPRESSOR.

## SHEET INDEX

- C-001: COVER SHEET, SCOPE OF WORK, BUILDING DATA
- A-001: LIFE SAFETY PLAN
- A-002: GENERAL NOTES, EQUIPMENT DATA
- A-003: FLOOR PLAN & NOTES
- E-001: ELECTRICAL RISER & PANEL SCHEDULES
- E-002: ELECTRICAL FLOOR PLAN
- M-001: MECHANICAL HVAC FLOOR PLAN
- M-002: EQUIPMENT FLOOR PLAN & DETAILS

## BUILDING DATA

	EXISTING	PROPOSED
USE GROUP/NON-SEPARATED, NON-MIXED USE (Per IBC Code)	S-1	S-1
OCCUPANT CAPACITY S-1 (Per NFPA 101) (100)	56	56
OCCUPANT CAPACITY S-1 (Per IBC Code) (300)	19	19
TYPE OF CONSTRUCTION (Per IBC Code)	11B	NO CHANGE
SPRINKLER PROTECTION (Indicate Type)	Automatic	NO CHANGE
FULLY SPRINKLERED (MONITORED BY INTERCEPTER SECURITY)	YES	NO CHANGE
FIRE ALARM (Indicate Type)	BELL	NO CHANGE
STANDPIPES (Indicate Yes or No)	YES	NO CHANGE
HEIGHT OF BUILDING (In Feet)	17'	NO CHANGE
NUMBER OF STORIES ABOVE GRADE	1	NO CHANGE
NUMBER OF STORIES BELOW GRADE	0	NO CHANGE
OFFICE AREA (B) EXISTING (LESS THAN 10%)	449 SQ FT	449 SQ FT
SHOP AREA (S-1) EXISTING	4,812 SQ FT	4,812 SQ FT
FLOOR AREA (TOTAL TENANT SPACE)	5,537 SQ FT	NO CHANGE
HIGH RISE BUILDING DESIGN (Yes, No)	NO	NO CHANGE

CODES USED FOR DESIGN:  
 HOWARD COUNTY  
 2021 INTERNATIONAL BUILDING CODE (IBC)  
 2021 INTERNATIONAL ENERGY CONSERVATION CODE  
 2021 INTERNATIONAL MECHANICAL CODE  
 2021 INTERNATIONAL PLUMBING CODE  
 2021 NFPA101 LIFE SAFETY CODE  
 2018 NFPA 30A  
 2020 NATIONAL ELECTRICAL CODE W/ LOCAL AMENDMENTS  
 CDMAR 05.02.02 MARYLAND ACCESSIBILITY CODE

## COVER SHEET

SCALE: AS NOTED

Professional Certification: I certify that these documents were prepared or approved by me, and that I, Allen A. Snyder am a duly licensed Professional Engineer under the laws of the State of Maryland, license number 21589, Expiration Date: 05-12-2023



**Pat Snyder**  
**Snyder AE Design Services**  
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 Luray, VA 22835  
 snyder.pat@verizon.net  
 703 967-6188 Cell  
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COMMERCIAL  
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DESIGN SERVICES

Designed By: J.R. Simpson  
 Approved By: A.A. Snyder, P.E.

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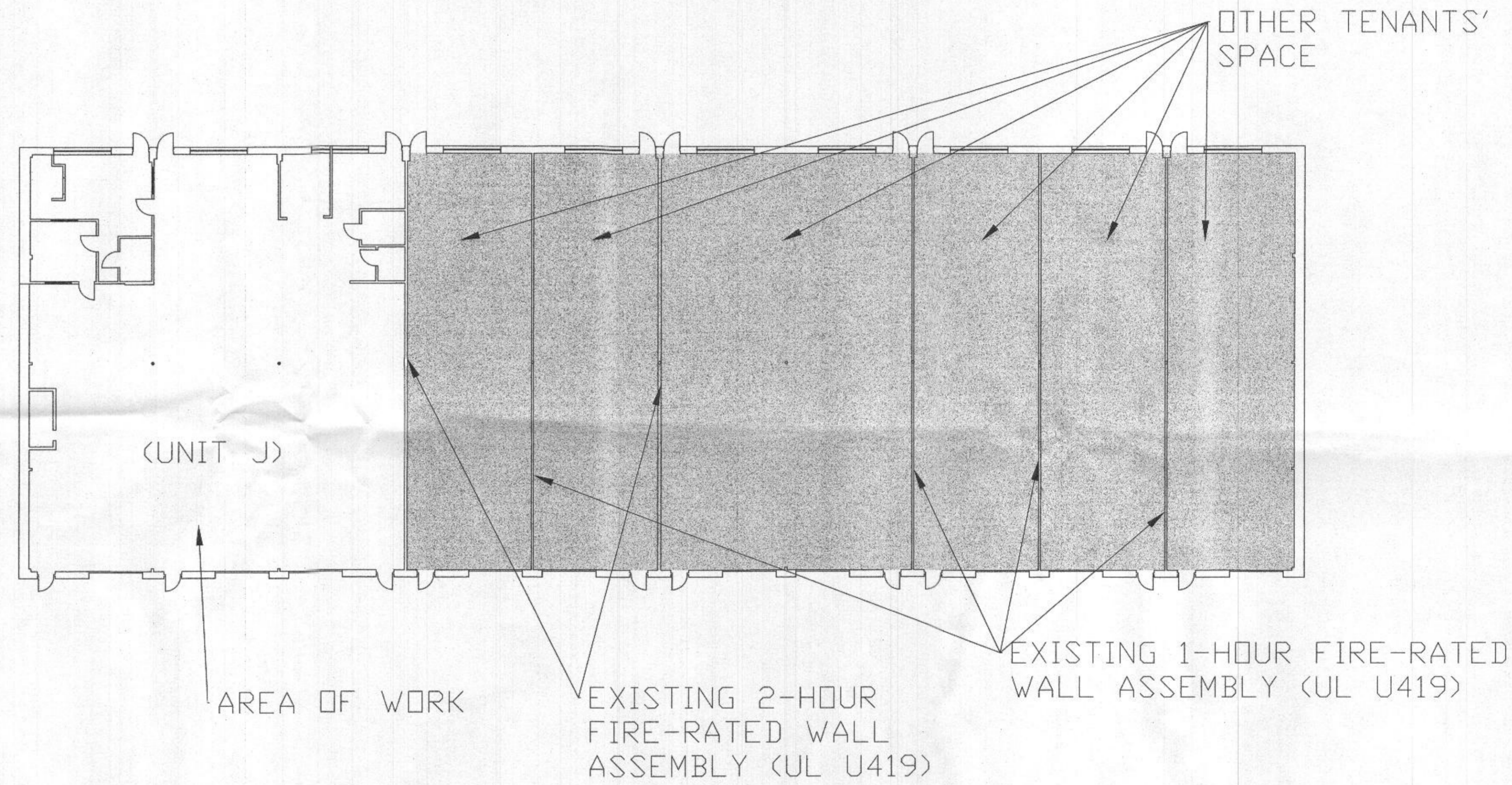
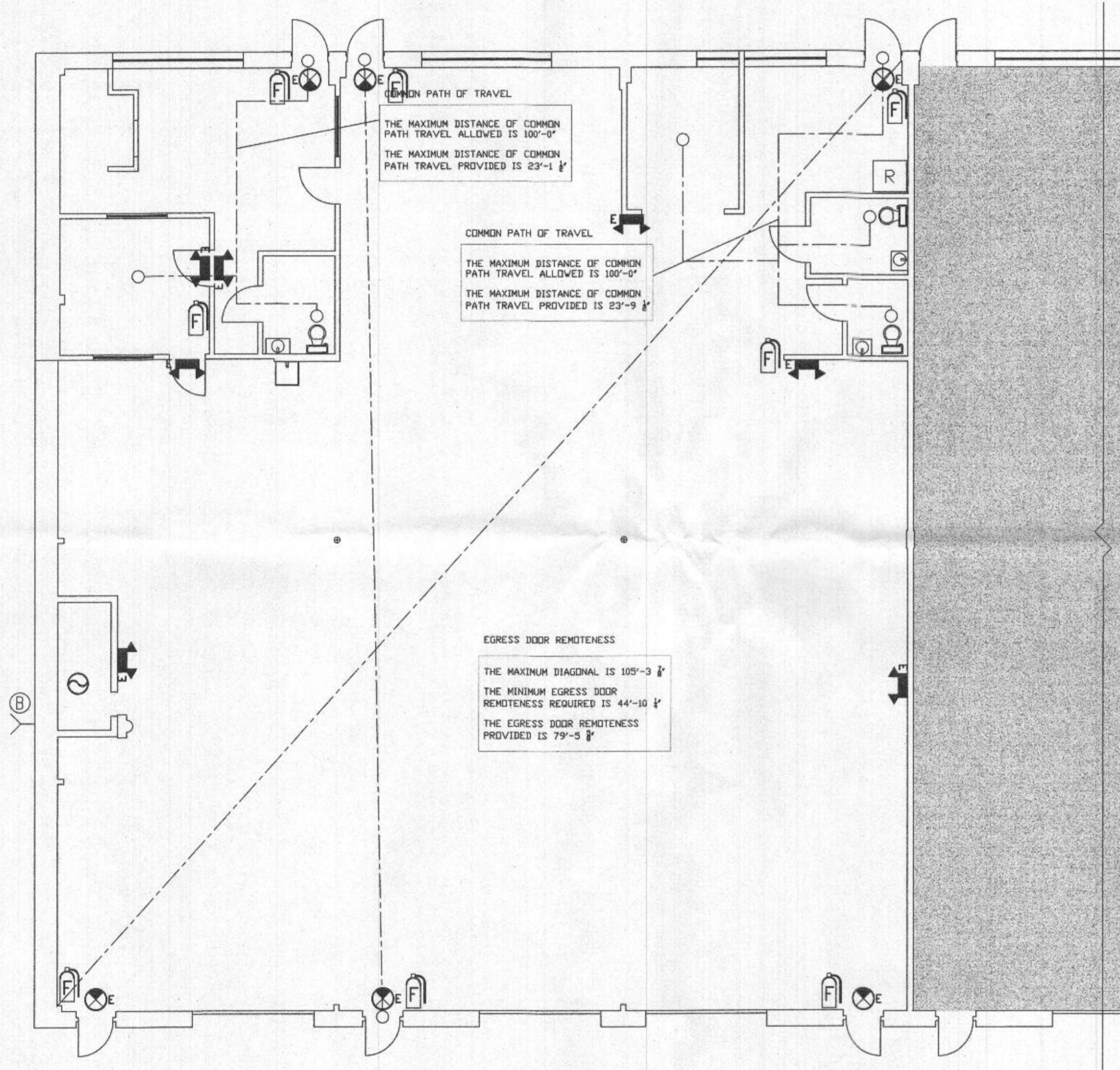
**C-001**

# LIFE SAFETY PLAN

SCALE:  $\frac{1}{8}'' = 1'-0''$

# KEY PLAN

SCALE:  $\frac{1}{16}'' = 1'-0''$

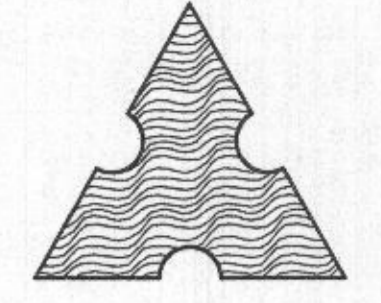


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**A-001**

# GENERAL NOTES

1. ALL GENERAL NOTES SHALL BE ADHERED TO DURING CONSTRUCTION.
2. EXIT DOOR LOCKS, IF PROVIDED, SHALL NOT REQUIRE THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT, FOR OPERATION WITHIN THE BUILDING, PER NFPA 101 (2021).
3. ALL EXIT DOORS SHALL BE PROVIDED WITH APPROVED PANIC HARDWARE, PER IBC (2021), IF APPLICABLE.
4. A LATCH OR OTHER FASTENING DEVICE ON A DOOR SHALL BE PROVIDED WITH A KNOB, PANIC BAR, OR OTHER SIMPLE TYPE OF RELEASING DEVICE HAVING AN OBVIOUS METHOD OF OPERATION UNDER ALL LIGHTING CONDITIONS. DOORS SHALL BE OPENABLE WITH NO MORE THAN ONE RELEASING OPERATION, PER NFPA 101 (2021).
5. ALL BUILDINGS WHICH CONTAIN NO MORE THAN THE EXEMPT QUANTITIES OF HIGH-HAZARD MATERIALS AS SHOWN ON TABLE 307.1(1) SHALL BE CLASSIFIED IN THE USE GROUP WHICH THEY MOST NEARLY RESEMBLE, PER IBC (2021) SECTION 307.1, EXCEPTION 1,2,3.
6. ALL WIRING SHALL COMPLY WITH THE REQUIREMENTS OF NEC 516 (2020) AND NFPA 1 (2021) WHERE APPLICABLE.
7. PROVIDE PORTABLE ABC EXTINGUISHERS IN THE SHOP AREA AS PER IBC (2021), NFPA 1 (2021) TO BE PLACED AS PER NFPA 10 (2013), NFPA 1 (2021) TABLE 13.6.2.
8. ALL TRAVEL DISTANCES AND COMMON PATHS OF TRAVEL WILL COMPLY WITH NFPA 101 (2021) SECTIONS 40.2.5, 40.2.6, & IBC (2021) SECTIONS 1014.3, 1016.2, & TABLE 1016.1.
9. STORAGE AND HANDLING OF FLAMMABLE LIQUIDS SHALL BE IN ACCORDANCE WITH NFPA 30 (2018), 9.4.3, NFPA 101 (2021) 8.7.3.1 & NFPA 1 (2021) 0.2 & 66.1.1 AS APPLICABLE.
10. CONTAINERS HOLDING FLAMMABLE OR COMBUSTIBLE LIQUIDS SHALL BE OF A TYPE AND SIZE THAT COMPLIES WITH NFPA 30 (2018) 9.4.3 AS APPLICABLE.
11. PROVIDE 1 EA APPROVED FM/UL 30 GALLON STORAGE CABINET PER NFPA 30 (2018) & NFPA 1 (2021).
12. SMART TURN AUTO REPAIR DOES NOT WORK ON VEHICLES FUELED BY NONODORIZED GASES, INCLUDING BUT NOT LIMITED TO HYDROGEN, NONODORIZED LNG & CNG.

## HAZARDOUS MATERIAL STORAGE ON SITE

THE AMOUNTS OF HAZARDOUS MATERIAL STORAGE AT 6660 DOBBIN ROAD WILL BE LESS THAN THE EXEMPT AMOUNTS ALLOWABLE (240 GALLONS), PER IBC (2021) TABLE 307.1(1) AND THE MANAGEMENT AT SMART TURN AUTO REPAIR IS AWARE OF THESE LIMITATIONS AND AGREES TO COMPLY WITH THEM. THE COMBINED QUANTITIES OF LIQUIDS LOCATED IN THE SHOP AREA SHALL NOT EXCEED 30 GALLONS AT ANY ONE TIME DURING OPERATIONS PER NFPA 1 (2021).

THE FIRE CODES OF THE STORED MATERIALS ARE AS FOLLOWS:

- TOTAL IB = 5 GALLONS
- TOTAL IC = 0 GALLONS
- TOTAL II = 10 GALLONS
- TOTAL IIIA = 0 GALLONS
- TOTAL IIIB = 25 GALLONS
- TOTAL GALLONS = 40

IBC (2021) TABLE 307.1(1) & NFPA 1 (2021)

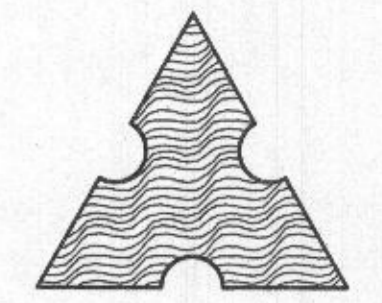
MATERIAL	CLASS	GROUP	STORAGE (CABINETS) (GALLONS)	CLOSED SYSTEM - N/A	OPEN SYSTEM - (SHOP)
COMBINATION OF FLAMMABLE LIQUIDS ( 1A, 1B, 1C )	N/A	H2 OR H3 (MAX)	120	120	30

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DESIGN SERVICES

Designed By: J.R. Simpson  
Approved By: A.A. Snyder, P.E.



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## GENERAL NOTES

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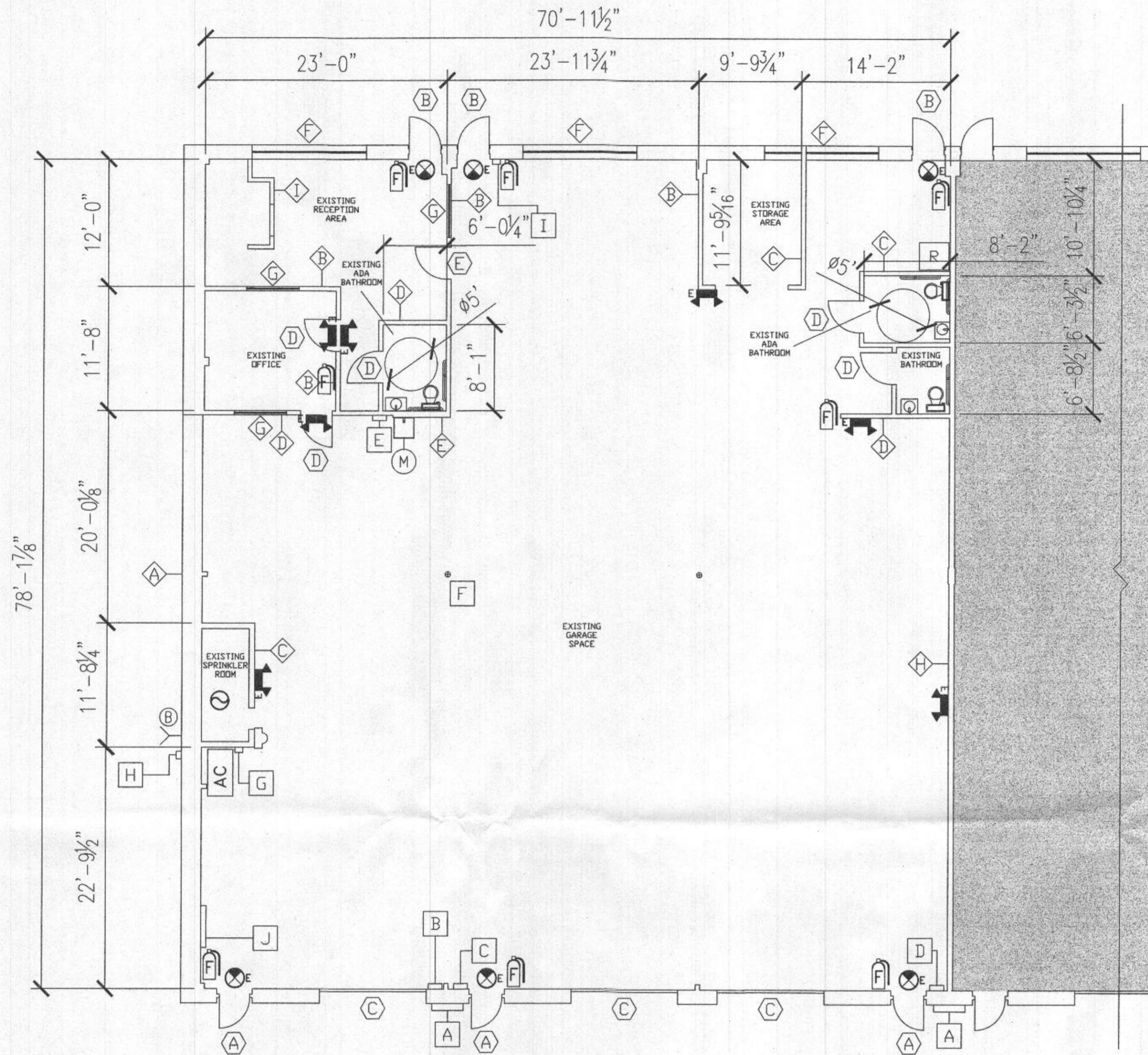


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**A-002**

FLOOR PLAN

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



MISC. FLOOR PLAN SYMBOLS

- EXISTING BUILDING FIRE SPRINKLER SYSTEM MAIN
- EXISTING BUILDING FIRE SPRINKLER SYSTEM STANDPIPE
- EXISTING BUILDING FIRE SPRINKLER BELL
- EXISTING FIRE EXTINGUISHER A,B,C, (5LB EA.)
- EXISTING LIGHTED EXIT SIGN AND EMERGENCY LIGHT W/ BATTERY PACK
- EXISTING EMERGENCY LIGHT W/ BATTERY PACK
- EXISTING FIRE ALARM CONTROL PANEL AND SMOKE ALARM
- EXISTING STRUCTURAL 6" DIA STEEL COLUMN
- EXISTING MOP SINK
- NEW CUSTOMER SERVICE COUNTER
- FUTURE AIR COMPRESSOR
- NEW REFRIGERATOR WITH ADA-COMPLIANT WATER DISPENSER

EXISTING ELECTRICAL SYMBOLS

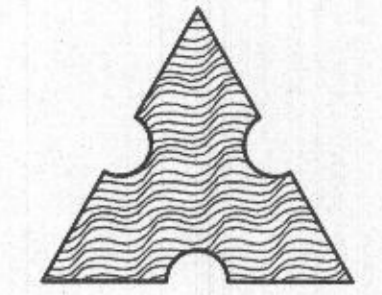
- EXISTING MAIN SERVICE CT CABINET
- EXISTING MAIN SERVICE PANEL \*PJ\* 200A, 120/208V, 3P
- EXISTING MAIN SERVICE PANEL \*PI\* 200A, 120/208V, 3P
- EXISTING MAIN SERVICE PANEL \*PH\* 200A, 120/208V, 3P
- EXISTING SUB PANEL \*PJS\* 100A, 120/208V, 1P
- EXISTING FUSIBLE SAFETY SWITCH \*DS1\* 60A, 60AF, 120/208V, 3P, FOR AIR HANDLER
- EXISTING FUSIBLE SAFETY SWITCH \*DS2\* 60A, 60AF, 120/208V, 3P, TO BE USED FOR FUTURE AIR COMPRESSOR
- EXISTING NON-FUSIBLE SAFETY SWITCH \*DS3\* 30A, 208V, 1P, FOR MAKEUP AIR UNIT
- EXISTING SAFETY SWITCH \*DS4\* W/ 20A LOCKABLE BREAKER, 120V, 1P, FOR FRONT SIGN
- EXISTING PHONE LINE SERVICE PANEL

EXISTING DOOR SYMBOLS

- EXISTING 36" FIRE EXIT DOOR W/ PUSH BAR
- EXISTING 36" GLASS DOOR W/ PUSH BAR
- EXISTING EXTERIOR ROLLUP GARAGE DOOR
- EXISTING 36" INTERIOR DOOR W/ ADA LEVER HANDLES
- EXISTING 36" TEMPERED GLASS DOOR W/ PUSH BAR

EXISTING WALL SYMBOLS

- EXISTING EXTERIOR WALL 8" CMU, W/ 4" BRICK FACING
- EXISTING INTERIOR WALL, 3 5/8" METAL STUDS, WITH 5/8" TYPE FSW DRYWALL, EACH SIDE, TO ROOF DECK
- EXISTING INTERIOR WALL, 3 5/8" METAL STUDS, WITH 5/8" TYPE FSW DRYWALL, EACH SIDE, TO 10' - 0" FF
- EXISTING INTERIOR WALL, 3 5/8" METAL STUDS, WITH 1/2" DRYWALL, EACH SIDE, TO ROOF DECK, NON RATED
- EXISTING INTERIOR WALL, 6" METAL STUDS, WITH 1/2" DRYWALL, EACH SIDE, TO ROOF DECK, NON RATED
- EXISTING EXTERIOR WINDOW
- EXISTING TEMPERED GLASS INTERIOR WINDOW
- EXISTING 2-HOUR FIRE-RATED WALL, 3 5/8" METAL STUDS, WITH TWO LAYERS 5/8" TYPE SCX DRYWALL, EACH SIDE, TO ROOF DECK
- EXISTING INTERIOR WALL, 3 5/8" METAL STUDS, WITH 1/2" DRYWALL, EACH SIDE, TO 3' - 6" FF WITH ADA TRANSACTION COUNTER CUTOUT



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FLOOR PLAN  
& NOTES

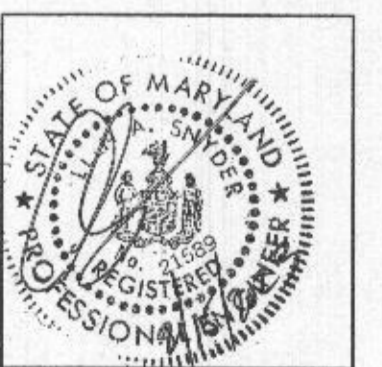
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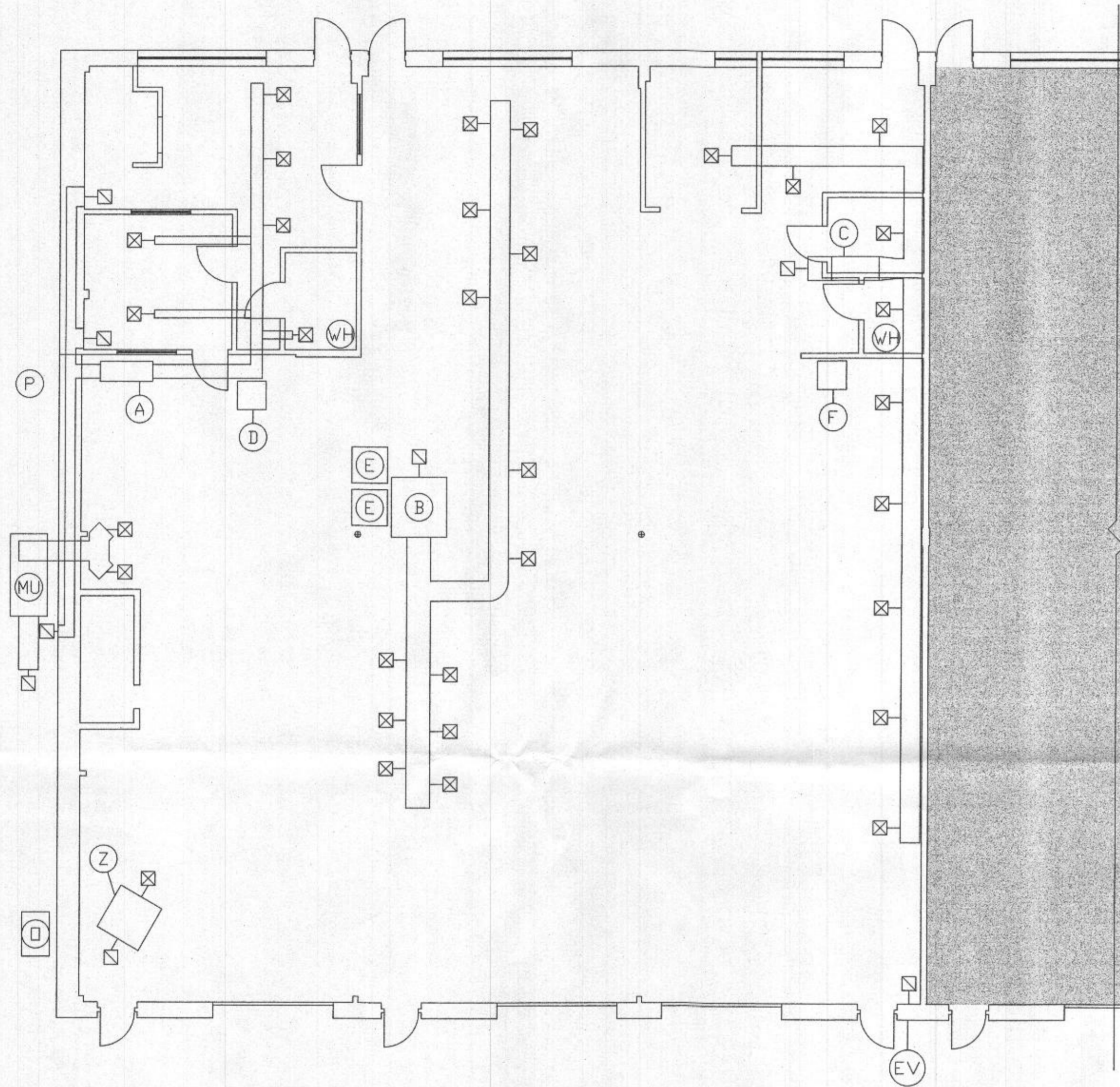
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**A-003**

# MECHANICAL OVERLAY

SCALE:  $\frac{1}{8}'' - 1'-0''$



### EXISTING OFFICE MECHANICAL SYMBOLS

- (A) EXISTING AIR HANDLER W/ 10KW ACCESSORY HEATER, 36.2 AMP, 208V, 1P, 58000 BTU/HR

### EXISTING SHOP MECHANICAL SYMBOLS

- (B) EXISTING AIR HANDLER W/ 16KW ACCESSORY HEATER, 30 AMP, 208V, 1P, 174000 BTU/HR
- (C) EXISTING AIR HANDLER W/ 6KW ACCESSORY HEATER, 29.3 AMP, 208V, 1P, 80185 BTU/HR
- (Z) EXISTING OIL BURNER, 5 AMP, 120V, 1P, 118000 BTU/HR

### EXISTING ROOFTOP MECHANICAL SYMBOLS

- (D) EXISTING HEAT PUMP, 2 TON,  $\frac{1}{2}$  HP, 10.9 AMP, 208V, 1P
- (E) EXISTING HEAT PUMP, 5 TON,  $\frac{1}{4}$  HP, 24.4 AMP, 208V, 1P
- (F) EXISTING HEAT PUMP, 5 TON,  $\frac{1}{2}$  HP, 34 AMP, 208V, 1P

### EXISTING MECHANICAL VENTILATION SYMBOLS

- (MU) EXISTING MAKE-UP AIR UNIT, 9.6 AMP, 208V, 1P, 4400 CFM MAX W/ VFD, DIRECT FIRED, LIQUID PROPANE, 258538 BTU/HR
- (EV) EXISTING REAR WALL EXHAUST FAN, 3 AMP, 120V, 1P, 4163 CFM MAX W/ VFD

### OTHER EXISTING MECHANICAL SYMBOLS

- (D) EXISTING DOUBLE WALL OIL TANK, 265 GAL TOTAL CAPACITY
- (P) EXISTING 100 GALLON PROPANE TANK
- (WH) EXISTING WATER HEATER, 12.5 AMP, 120V, 1P
- ☒ EXISTING AIR SUPPLY
- ☐ EXISTING AIR RETURN

### SHOP MECHANICAL VENTILATION NOTES

1. VENTILATION RATE PER IMC (2021) TABLE 403.1.1: 0.75 CFM/SQ FT DURING OCCUPIED HOURS WITH OUT SENSORS.  
4812 SQ FT X .75 CFM/SQ FT = 3609 CFM REQUIRED

\* AIR SUPPLY PROVIDED BY EXISTING MAKE-UP AIR UNIT, 9.6 AMP, 208V, 1P, 4400 CFM MAX W/ VFD, DIRECT FIRED, LIQUID PROPANE, 258538 BTU/HR

\* EXHAUST PROVIDED BY EXISTING REAR WALL EXHAUST FAN, 3 AMP, 120V, 1P, 4163 CFM MAX W/ VFD

2. OVERPRESSURIZATION FOR THE OFFICE AREA PROVIDED BY AUXILIARY POSITIVE PRESSURE SYSTEM W/ A 24V DAMPER FOR OUTSIDE FRESH AIR FROM 0 TO 325 CFM AS REQUIRED W/ CFM CONTROLLER IN OFFICE.

3. ALL MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE LISTED AND LABELED PER NEC (2020), IMC (2021) SECTIONS 301.4 & 301.5.

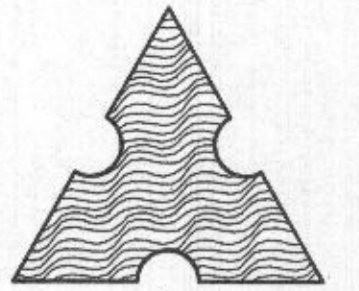
4. PLEASE NOTE THAT THERE ARE NO MECHANICAL MODIFICATIONS TO THE EXISTING SHOP, OFFICE, OR STORAGE ROOM AREAS.

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## MECHANICAL FLOOR PLAN

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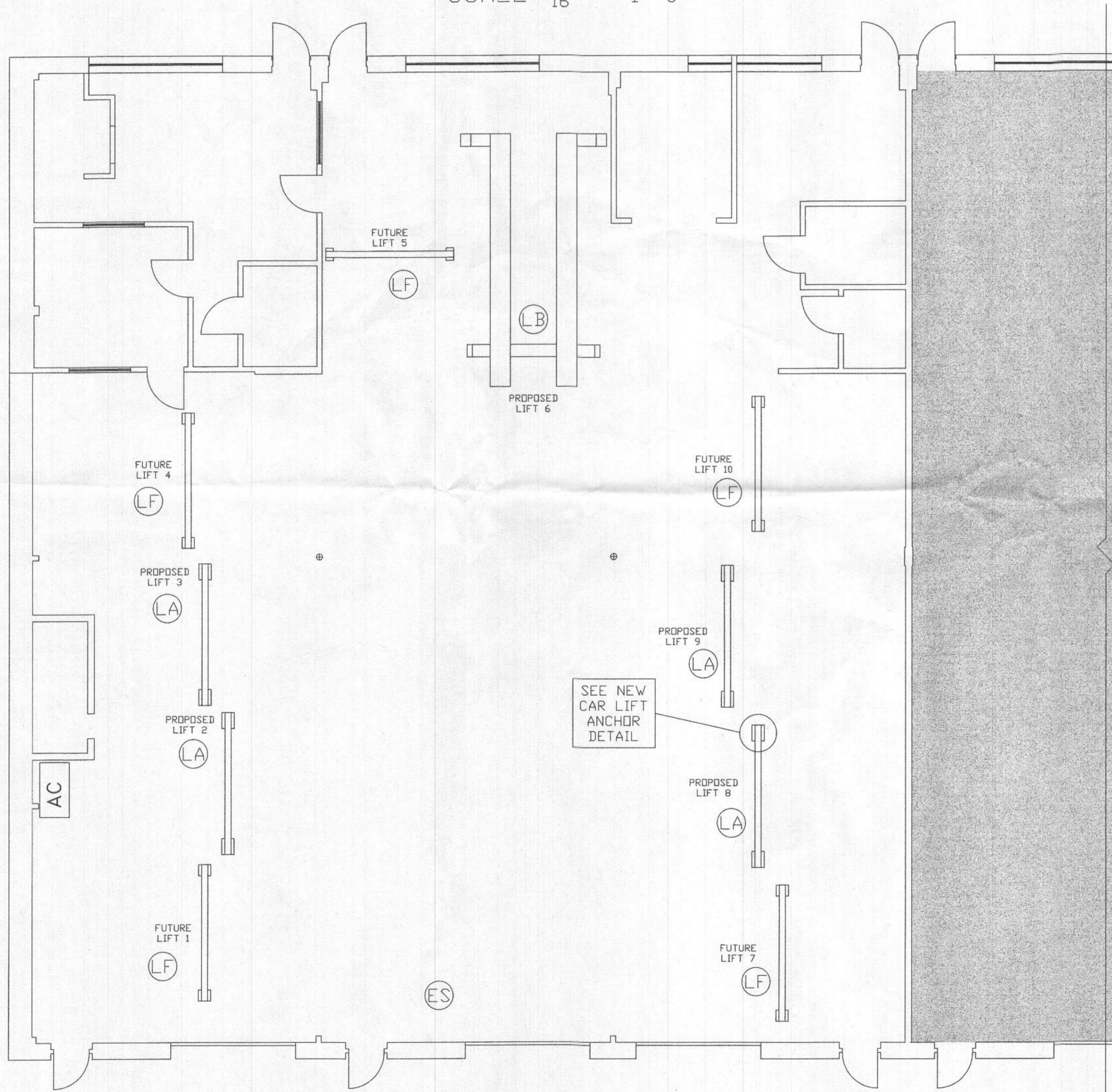
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SHEET NUMBER:

**M-001**

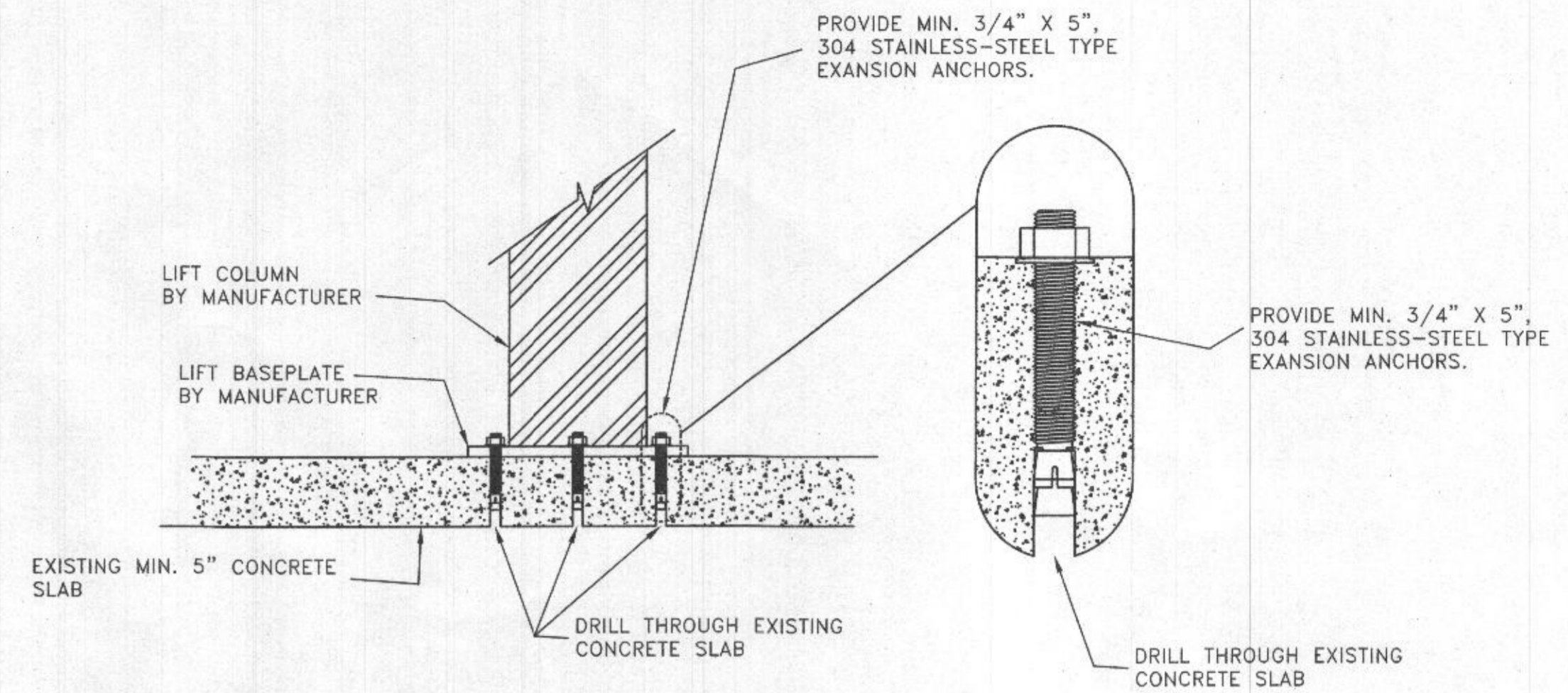
# EQUIPMENT OVERLAY

SCALE:  $\frac{3}{16}$ " - 1'-0"



## NEW CAR LIFT ANCHOR DETAIL

NOT TO SCALE



## NEW AND FUTURE EQUIPMENT SYMBOLS

- ⓁA NEW BENDPAK XPR-10AXLS-181 ALI CERTIFIED 2 POST LIFT 10,000 LB
- ⓁB NEW BENDPAK HDSQ-14AX 4 POST ALI CERTIFIED ALIGNMENT LIFT 14,000 LB
- ⓁES PORTABLE VEHICLE EXHAUST EXTRACTION SYSTEM,  $\frac{3}{4}$  HP, 5 AMP, 120V, 1P, 700 CFM (PLUGS INTO STANDARD 120V OUTLET)
- ⓁF FUTURE LIFT TO BE INSTALLED AT A LATER TIME
- ⓁAC FUTURE AIR COMPRESSOR TO BE INSTALLED AT A LATER TIME

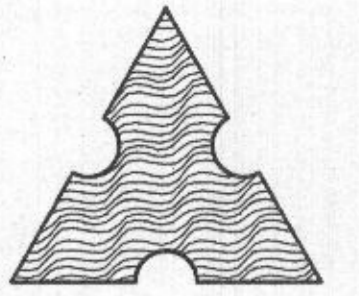
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CONSTRUCTION  
DESIGN SERVICES

Designed By: J.R. Simpson  
Approved By: A.A. Snyder, P.E.



**SMART TURN**  
AUTO REPAIR, INC.  
6660 DOBBIN RD, STE J  
COLUMBIA, MD 21045

**D.L. HINDMAN, INC.**  
CONSULTING SERVICES  
7958 LAKECREST DRIVE,  
GREENBELT MD 20770  
(301) 275-3111

## AUTOMOTIVE EQUIPMENT FLOOR PLAN & DETAILS

SCALE: AS NOTED



ISSUE DATE:  
PERMIT/  
CONSTRUCTION

**RECEIVED**

FEB 16 2023

LICENSES & PERMITS  
DIVISION

SHEET NUMBER:

**M-002**

Panel designation		Location: rear wall of space			Mounting:		Surface		Entry: top					
Ser Panel J existing		Bus: 200 amp			Voltage: 120/208		Phase: 3		Wire: 4					
		Main: 200 amp			Poles: 42		AIC: 10000		Size: #3/0 cu					
CKT	Description:	Phase			Pole	AMP	CKT	Phase			Pole	AMP		
		A	B	C				A	B	C				
1	Sub panel J	10500			2	100	2	Main fire alarm sys.	1000			1	20	
3	Sub panel J		10500		-	100	4	Water heater		1500		1	20	
5	Future air compress			0	-	60	6	Misc bay lights			700	1	20	
7	Future air compress	0			3	60	8	Oil burner	650			1	20	
9	Future air compress		0		-	60	10	Ceiling recept GFI		180		1	20	
11	6-50 recept			0	2	50	12	Ceiling recept GFI			180	1	20	
13	6-50 recept	0			-	50	14	Ceiling recept GFI	180			1	20	
15	6-50 recept		0		2	50	16	Ceiling recept GFI		180		1	20	
17	6-50 recept			0	-	50	18	Car lift #1 recept (F)			0	2	30	
19	6-50 recept	0			2	50	20	Car lift #1 recept (F)	0			-	30	
21	6-50 recept		0		-	50	22	Car lift #2 recept (P)		1660		2	25	
23	6-30 recept			2640	2	30	24	Car lift #2 recept (P)			1660	-	25	
25	6-30 recept	2640			-	30	26	Car lift #3 recept (P)	1660			2	25	
27	Air make-up unit		1150		2	20	28	Car lift #3 recept (P)		1660		-	25	
29	Air make-up unit			1150	-	20	30	Car lift #4 recept (F)			0	2	30	
31	Office/Recept lights	900			1	20	32	Car lift #4 recept (F)	0			-	30	
33	Misc office receipts		720		1	20	34	Misc bay receipts		720		1	20	
35	Recept area receipts			900	1	20	36	Misc bay receipts			900	1	20	
37	Recept area receipts	720			1	20	38	Misc bay receipts	720			1	20	
39	Recept area receipts		720		1	20	40	Misc bay receipts		900		1	20	
41	Outer security lights			1200	1	15	42	Misc bay receipts			720	1	20	
TOTAL AMPERAGE CALCULATION:					TOTAL WATTAGE A=		18970.00							
					TOTAL WATTAGE B=		19890.00							
					TOTAL WATTAGE C=		10050.00							
					TOTAL WATTAGE=		48910.00							
					TOTAL AMPERAGE:		135.8611111							

Note: All circuits are existing.  
 Note: These are all connected loads as shown, not actual loads.  
 Note: There is only one 30a,1ph,208v mig welder in the shop with multiple receptacles.  
 Note: There is only one 50a,1ph,208v mig welder in the shop with multiple receptacles.

Panel designation		Location: rear wall of space			Mounting:		Surface		Entry: top					
Ser Panel I existing		Bus: 200 amp			Voltage: 120/208		Phase: 3		Wire: 4					
		Main: 200 amp			Poles: 42		AIC: 10000		Size: #3/0 cu					
CKT	Description:	Phase			Pole	AMP	CKT	Phase			Pole	AMP		
		A	B	C				A	B	C				
1	Air handler	5890			-	60	2	Heat pump	2538			2	40	
3	Air handler		5890		3	60	4	Heat pump		2538		-	40	
5	Air handler			5890	-	60	6	SPARE			0	2	15	
7	SPARE	0			-	30	8	SPARE	0			-	15	
9	SPARE		0		3	30	10	Heat pump		2538		2	40	
11	SPARE			0	-	30	12	Heat pump			2538	-	40	
13	14-50 recept	0			2	50	14	Ceiling recept GFI	180			1	20	
15	(future car charger)		0		-	50	16	Ceiling recept GFI		180		1	20	
17	6-30 recept			0	2	30	18	Misc shop receipts			720	1	20	
19	6-30 recept	0			-	30	20	Misc shop receipts	720			1	20	
21	6-30 recept		0		2	30	22	Misc shop receipts		720		1	20	
23	6-30 recept			0	-	30	24	Misc shop receipts			900	1	20	
25	Car lift #5 recept (F)	0			2	30	26	Misc shop receipts	720			1	20	
27	Car lift #5 recept (F)		0		-	30	28	Misc shop receipts		720		1	20	
29	Car lift #6 recept (P)			1660	2	30	30	Outside wall sign			1200	1	20	
31	Car lift #6 recept (P)	1660			-	30	32	Misc lights	540			1	20	
33	SPACE				-	-	34	SPACE				-	-	
35	SPACE				-	-	36	SPACE				-	-	
37	SPACE				-	-	38	SPACE				-	-	
39	SPACE				-	-	40	SPACE				-	-	
41	SPACE				-	-	42	Panel recept			180	1	20	
TOTAL AMPERAGE CALCULATION:					TOTAL WATTAGE A=		12248.00							
					TOTAL WATTAGE B=		12586.00							
					TOTAL WATTAGE C=		13088.00							
					TOTAL WATTAGE=		37922.00							
					TOTAL AMPERAGE:		105.3388889							

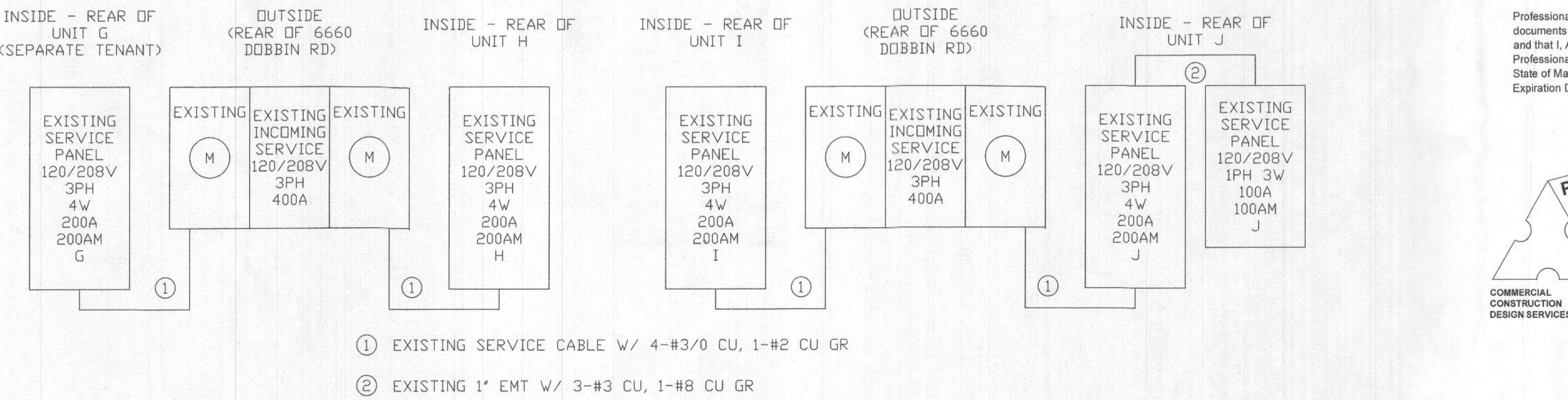
Note: All circuits are existing.  
 Note: These are all connected loads as shown, not actual loads.  
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Panel designation		Location: rear wall of space			Mounting:		Surface		Entry: top					
Ser Panel H existing		Bus: 200 amp			Voltage: 120/208		Phase: 3		Wire: 4					
		Main: 200 amp			Poles: 42		AIC: 10000		Size: #3/0 cu					
CKT	Description:	Phase			Pole	AMP	CKT	Phase			Pole	AMP		
		A	B	C				A	B	C				
1	Air handler unit H	4200			2	60	2	Recept minifrig	1000			1	20	
3	Air handler unit H		4200		-	60	4	Recept microwave		1200		1	20	
5	Recept re frig			1200	1	20	6	Ceiling recept GFI			180	1	20	
7	Parts rm receipts	720			1	20	8	Ceiling recept GFI	180			1	20	
9	Water heater		1500		1	20	10	Ceiling recept GFI		180		1	20	
11	SPARE			0	1	20	12	Ceiling recept GFI			180	1	20	
13	Recept area lights	900			1	20	14	6-30 recept	0			2	30	
15	Break area receipts		720		1	20	16	6-30 recept		0		-	30	
17	Counter receipts			1080	1	20	18	Heat pump			2200	2	40	
19	Shop area lights	720			1	20	20	Heat pump		2200		-	40	
21	Car lift #7 recept (F)		0		2	30	22	Car lift #9 recept (P)		1660		2	30	
23	Car lift #7 recept (F)			0	-	30	24	Car lift #9 recept (P)			1660	-	30	
25	Car lift #8 recept (P)	1660			2	30	26	Car lift #10 recept (F)	0			2	30	
27	Car lift #8 recept (P)		1660		-	30	28	Car lift #10 recept (F)		0		-	30	
29	SPACE				-	-	30	Exhaust fan			360	-	20	
31	SPACE				-	-	32	Panel recept	180			1	20	
33	Misc bay receipts		720		1	20	34	Misc bay receipts		720		1	20	
35	Misc bay receipts			900	1	20	36	Misc bay receipts			720	1	20	
37	Misc bay receipts	900			1	20	38	Misc bay receipts	900			1	20	
39	Misc bay receipts		900		1	20	40	Misc bay receipts		900		1	20	
41	Misc bay receipts			900	1	20	42	Misc bay receipts			900	1	20	
TOTAL AMPERAGE CALCULATION:					TOTAL WATTAGE A=		13560.00							
					TOTAL WATTAGE B=		14360.00							
					TOTAL WATTAGE C=		10280.00							
					TOTAL WATTAGE=		38200.00							
					TOTAL AMPERAGE:		106.1111111							

Note: All circuits are existing.  
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Panel designation		Location:			Mounting:		Surface		Entry: TOP					
Sub Panel J new		Bus: 100 amp			Voltage: 120/240		Phase: 1		Wire: 3					
		Main: 100 amp			Poles: 24		AIC: 10000		Size: #3 cu					
CKT	Description:	Phase			Pole	AMP	CKT	Phase			Pole	AMP		
		A	B	C				A	B	C				
1	Main disconnect	-	-	-	2	100	2	SPACE	-	-	-	-		
3	Main disconnect	-	-	-	-	100	4	SPACE	-	-	-	-		
5	6-50 recept	4200			2	50	6	Heat pump	1135			2	30	
7	6-50 recept		4200		-	50	8	Heat pump		1135		-	30	
9	6-30 recept	0			2	30	10	Air handler	3765			2	60	
11	6-30 recept		0		-	30	12	Air handler		3765		-	60	
13	Misc bay receipts	700			1	20	14	Misc bay receipts	700			1	20	
15	Misc bay receipts		700		1	20	16	Misc bay receipts		700		1	20	
17	SPACE	-	-	-	-	-	18	SPACE	-	-	-	-		
19	SPACE	-	-	-	-	-	20	SPACE	-	-	-	-		
21	SPACE	-	-	-	-	-	22	SPACE	-	-	-	-		
23	SPACE	-	-	-	-	-	24	SPACE	-	-	-	-		
TOTAL AMPERAGE CALCULATION:					TOTAL WATTAGE A=		10500.00							
					TOTAL WATTAGE B=		10500.00							
					TOTAL WATTAGE C=		21000.00							
					TOTAL AMPERAGE:		87.5							

NOTE: All circuits are existing.  
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 NOTE: There is only one 50a,1ph,208v mig welder in the shop with multiple receptacles.

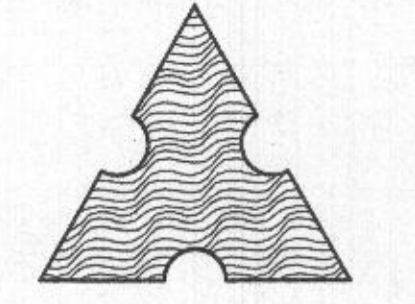


Professional Certification. I certify that these documents were prepared or approved by me, and that I, Allen A. Snyder am a duly licensed Professional Engineer under the laws of the State of Maryland, license number 21589, Expiration Date: 05-12-2023

**Pat Snyder**  
 Snyder AE Design Services  
 493 Parkview Estates Lane  
 Luray, VA 22835  
 snyder.pat@verizon.net  
 703 967-6188 Cell  
 540 843-2535 Home Office

COMMERCIAL CONSTRUCTION DESIGN SERVICES

Designed By: J.R. Simpson  
 Approved By: A.A. Snyder, P.E.



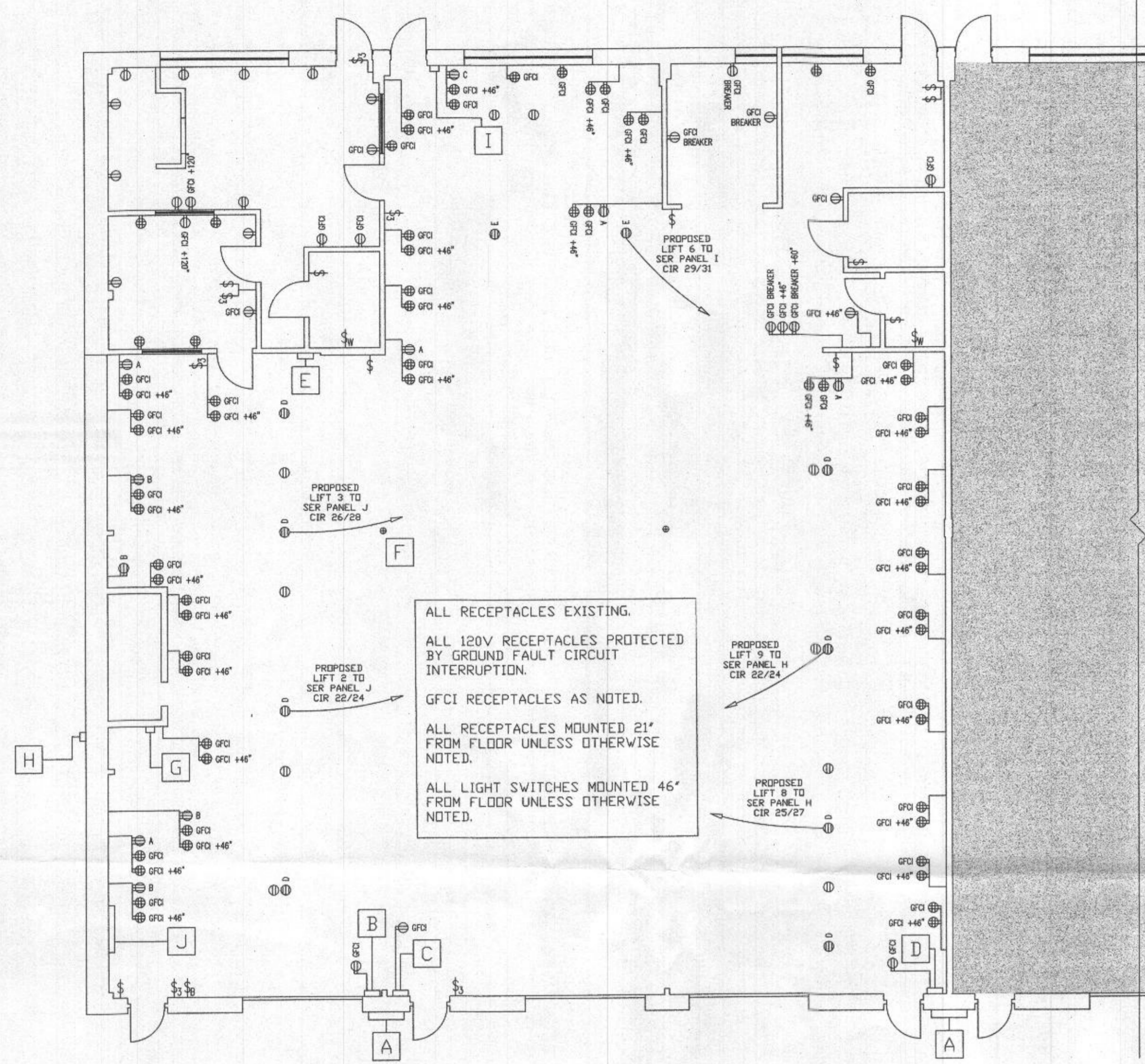
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**ELECTRICAL**  
**RISERS**

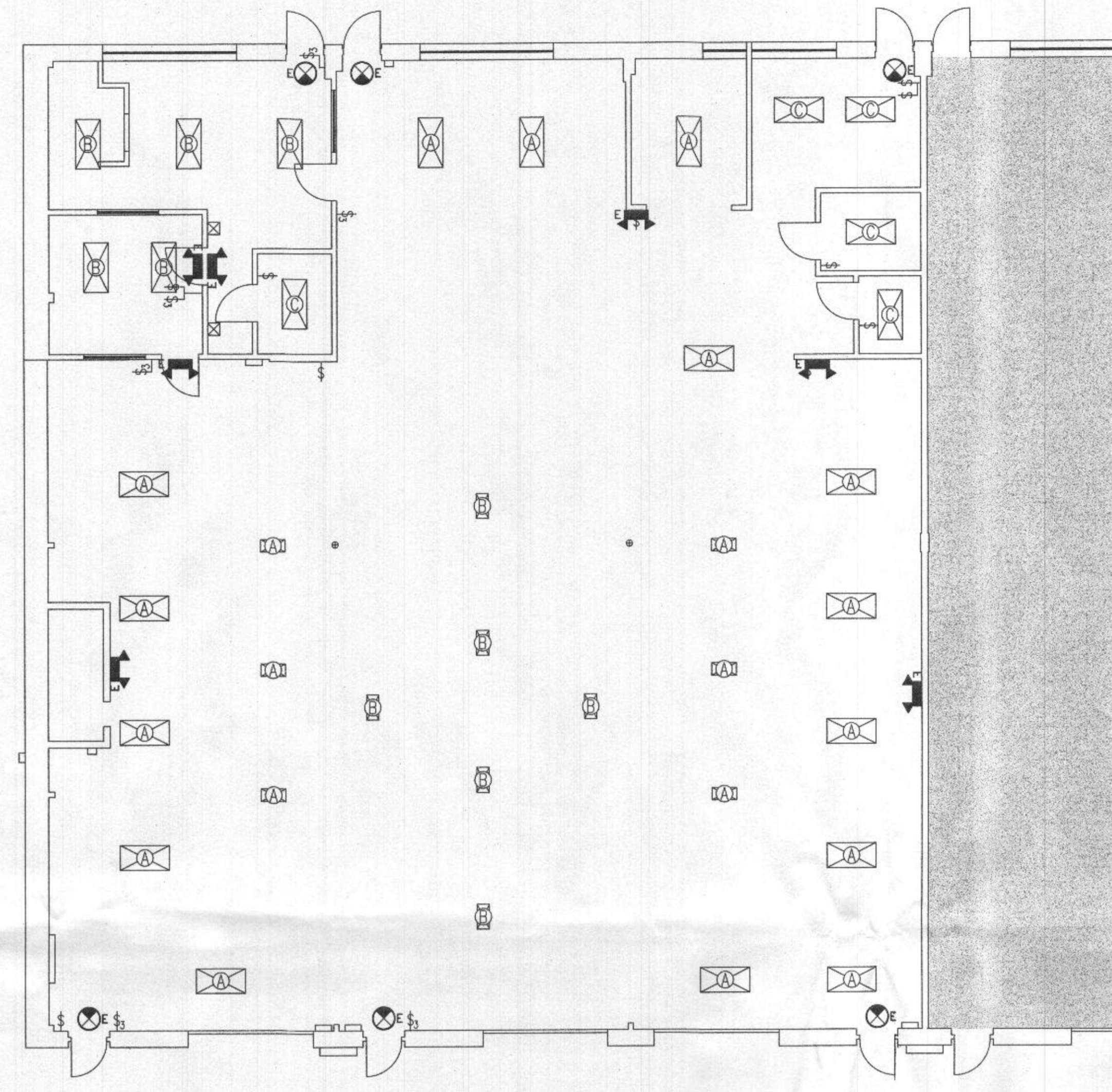
POWER OVERLAY

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



LIGHTING OVERLAY

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



EXISTING AND NEW MISC ELECTRICAL SYMBOLS

- A EXISTING MAIN SERVICE CT CABINET
- B EXISTING MAIN SERVICE PANEL "PJ" 200A, 120/208V, 3P
- C EXISTING MAIN SERVICE PANEL "PI" 200A, 120/208V, 3P
- D EXISTING MAIN SERVICE PANEL "PH" 200A, 120/208V, 3P
- E EXISTING SUB PANEL "PJS" 100A, 120/208V, 1P
- F EXISTING FUSIBLE SAFETY SWITCH "DS1" 60A, 60AF, 120/208V, 3P, FOR AIR HANDLER
- G EXISTING FUSIBLE SAFETY SWITCH "DS2" 60A, 60AF, 120/208V, 3P, TO BE USED FOR FUTURE AIR COMPRESSOR
- H EXISTING NON-FUSIBLE SAFETY SWITCH "DS3" 30A, 208V, 1P, FOR MAKEUP AIR UNIT
- I EXISTING SAFETY SWITCH "DS4" W/ 20A LOCKABLE BREAKER, 120V, 1P, FOR FRONT SIGN
- J EXISTING PHONE LINE SERVICE PANEL

EXISTING RECEPTACLE SYMBOLS

- ⊕ EXISTING 120V, 1P, DUPLEX OUTLET, GFCI OUTLET OR BREAKER AS NOTED
- ⊕ EXISTING 120V, 1P, DUPLEX OUTLET, CEILING MOUNTED, GFCI BREAKER
- ⊕ EXISTING 120V, 1P, QUADPLEX OUTLET, GFCI OUTLET AS NOTED
- ⊕ EXISTING 208V, 1P, NEMA 6-30 RECEPTACLE
- ⊕ EXISTING 208V, 1P, NEMA 6-50 RECEPTACLE
- ⊕ EXISTING 208V, 1P, NEMA 14-50 RECEPTACLE
- ⊕ EXISTING 208V, 1P, NEMA L6-30 RECEPTACLE TO BE USED FOR LIFT, CEILING MOUNTED
- ⊕ EXISTING 208V, 1P, NEMA L14-0 RECEPTACLE TO BE USED FOR LIFT, CEILING MOUNTED
- ⊕ EXISTING OIL BURNER EMERGENCY SHUTOFF SWITCH
- ⊕ EXISTING WATER HEATER EMERGENCY SHUTOFF SWITCH
- ⊕ EXISTING LIGHT SWITCH, 20 AMP BREAKER
- ⊕ EXISTING THREE-WAY LIGHT SWITCH, 20 AMP BREAKER

EXISTING LIGHT SYMBOLS

- ⊕ EXISTING 2' X 4' T5 LED 6-BULB HIGH BAY LIGHT FIXTURE (144 WATTS)
- ⊕ EXISTING 2' X 4' LED LIGHT FIXTURE (35 WATTS)
- ⊕ EXISTING 2' X 4' T8 LED LIGHT FIXTURE (36 WATTS)
- ⊕ EXISTING 1' X 2' LED HIGH BAY LIGHT FIXTURE (160 WATTS)
- ⊕ EXISTING 8' T8 LED LIGHT FIXTURE (88 WATTS)
- ⊕ EXISTING LED WALL LIGHT FIXTURE (12 WATTS)
- ⊕ EXISTING LIGHTED EXIT SIGN AND EMERGENCY LIGHT W/ BATTERY PACK
- ⊕ EXISTING EMERGENCY LIGHT W/ BATTERY PACK

Professional Certification. I certify that these documents were prepared or approved by me, and that I, Allen A. Snyder am a duly licensed Professional Engineer under the laws of the State of Maryland, license number 21589, Expiration Date: 05-12-2023

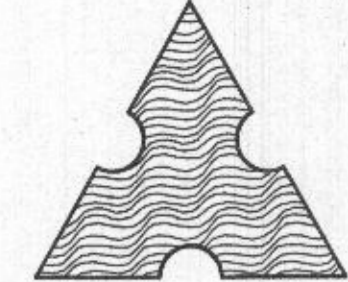
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**ELECTRICAL FLOOR PLAN**

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