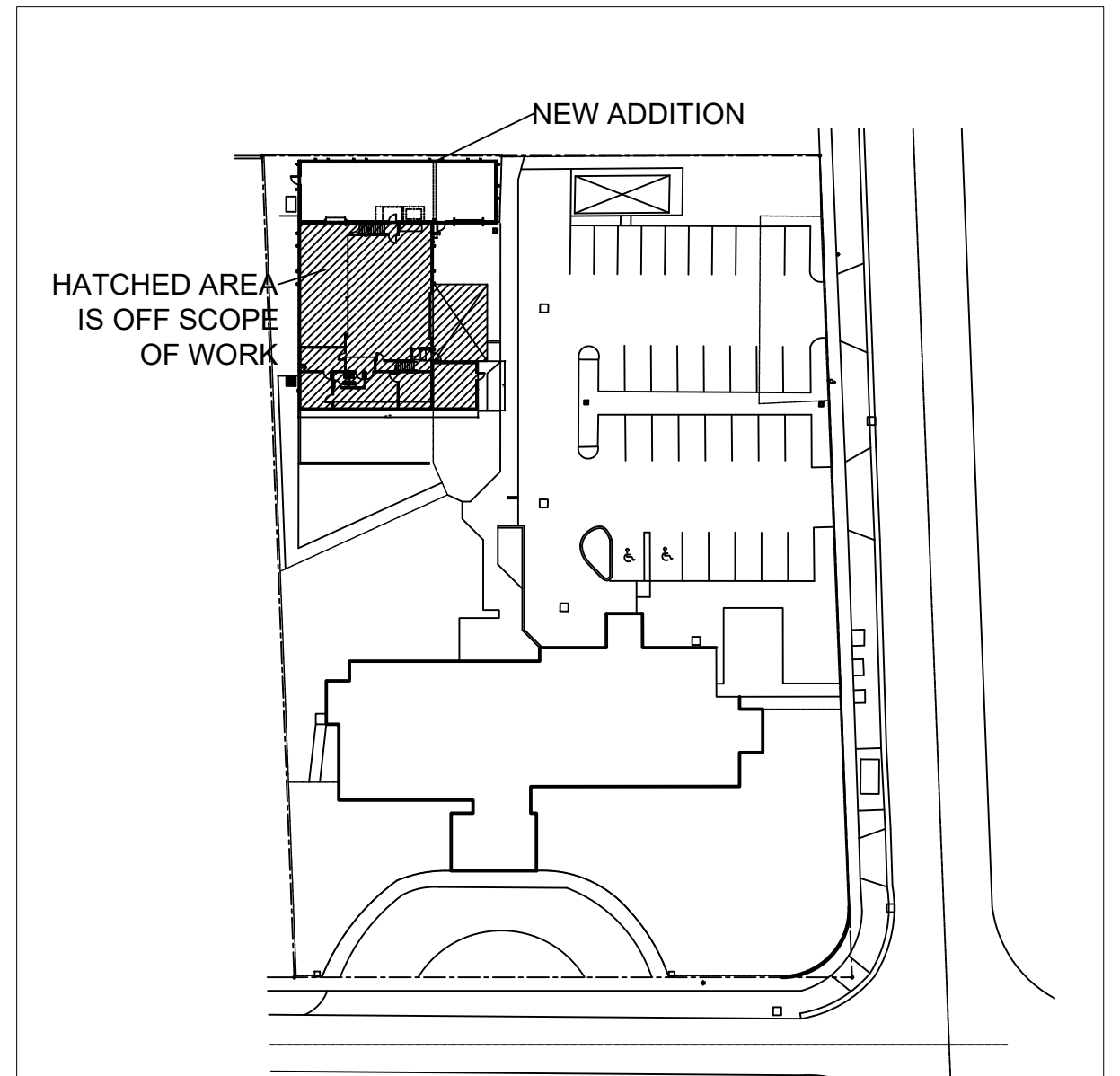
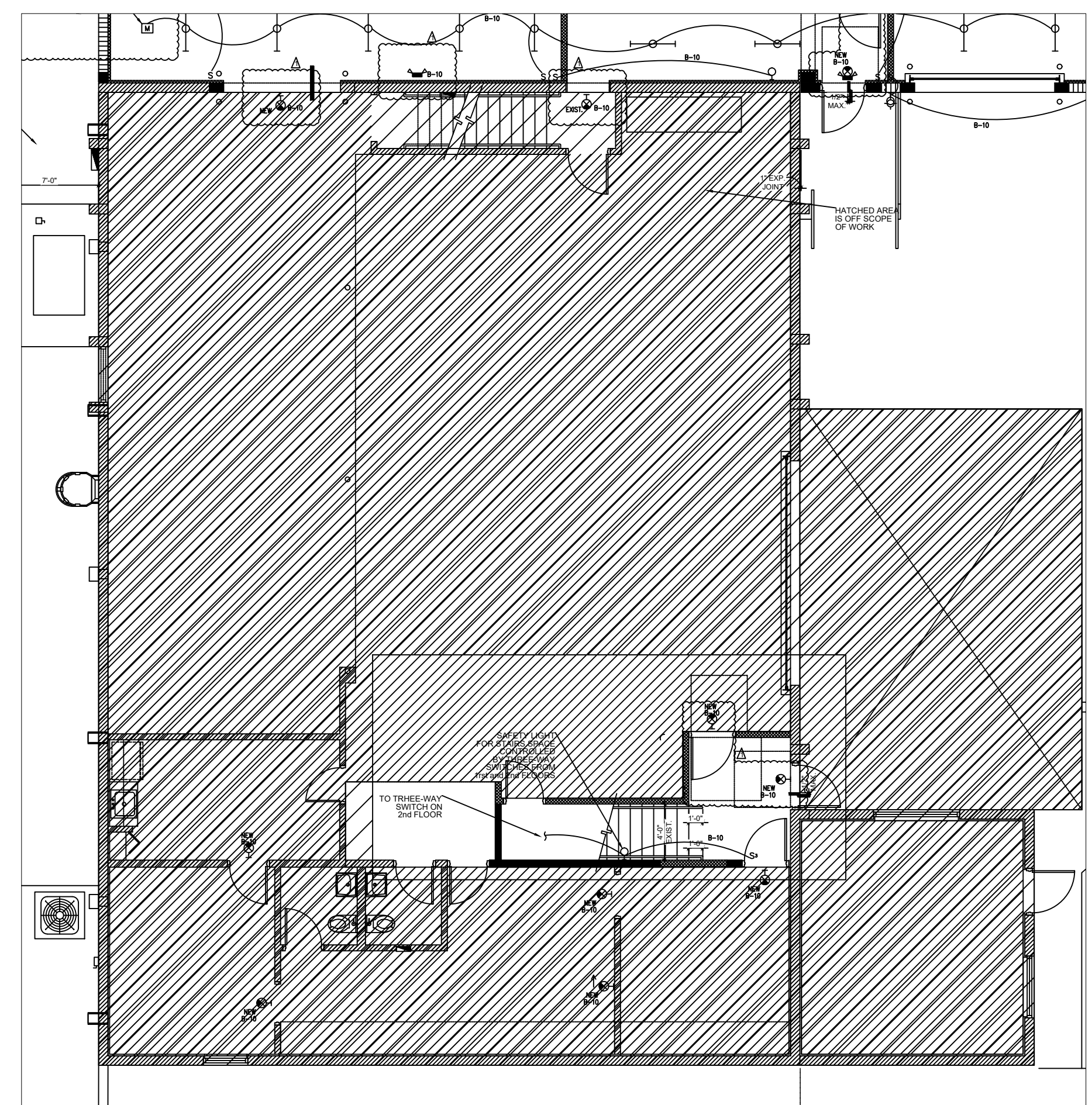


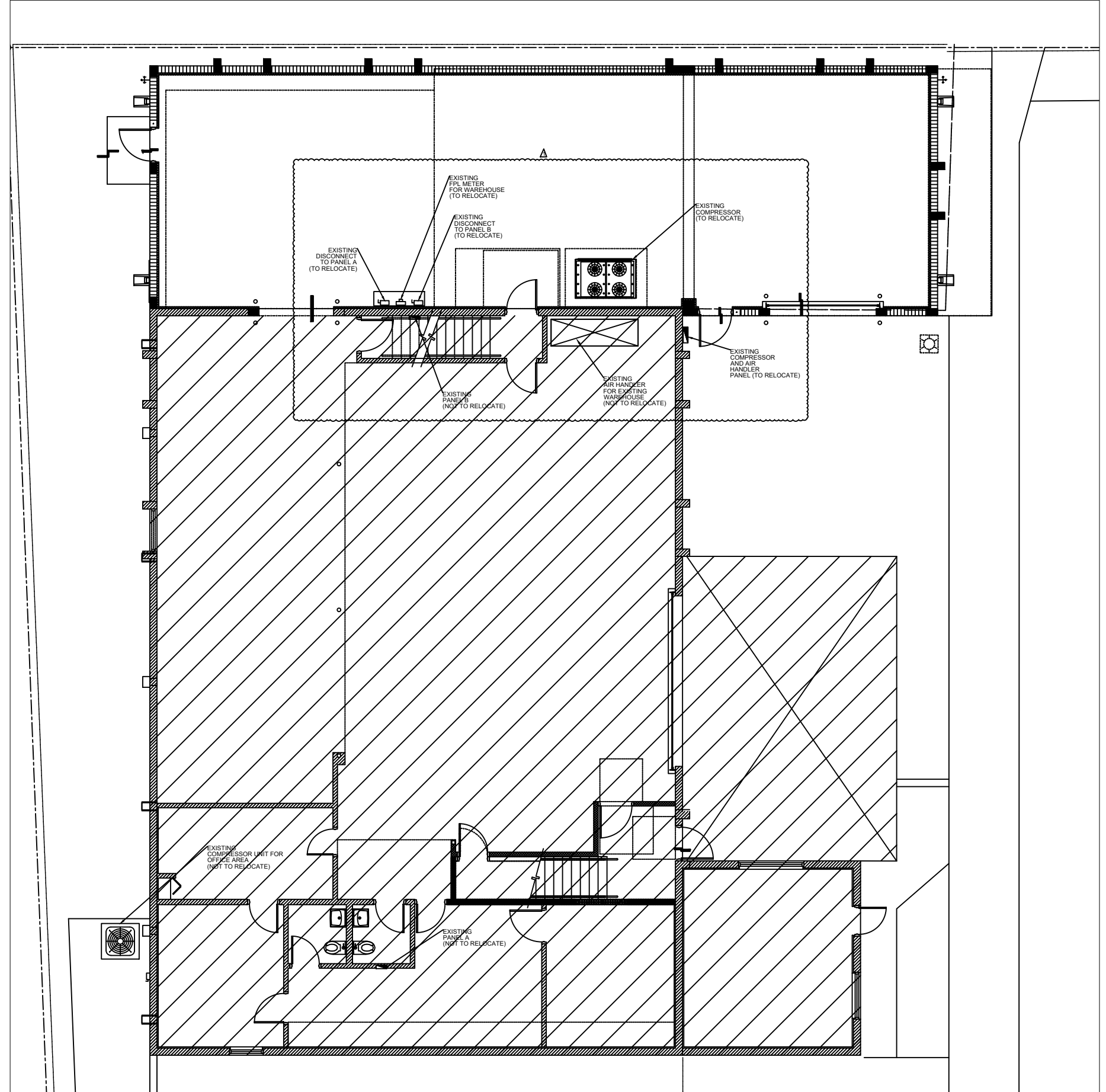
2 FLOOR PLAN - LIGHTS
SCALE: 1/4"=1'-0"



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



3 FLOOR PLAN - SAFETY LIGHT FOR STAIRS ACCESS
SCALE: 1/4"=1'-0"



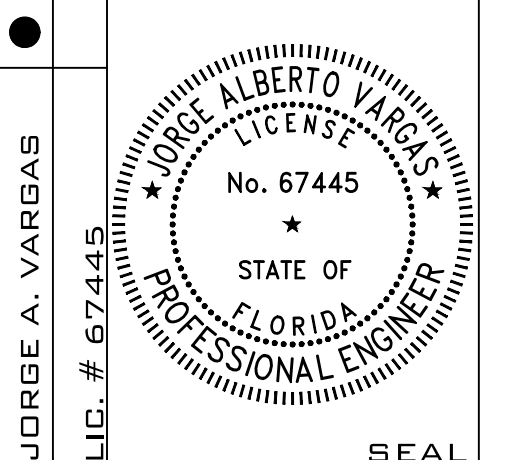
4 FLOOR PLAN - PANELS AND SERVICE EQUIPMENT PREVIOUS LOCATION
SCALE: 3/8"=1'-0"

HIALEAH HOUSING AUTHORITY
STORAGE BLDG. ADDITION AND ALTERATIONS
815 WEST 75TH ST

DATE: 12.15.20
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DRAWN BY:
REVIEWED BY:
PROJECT NO. 20-0032

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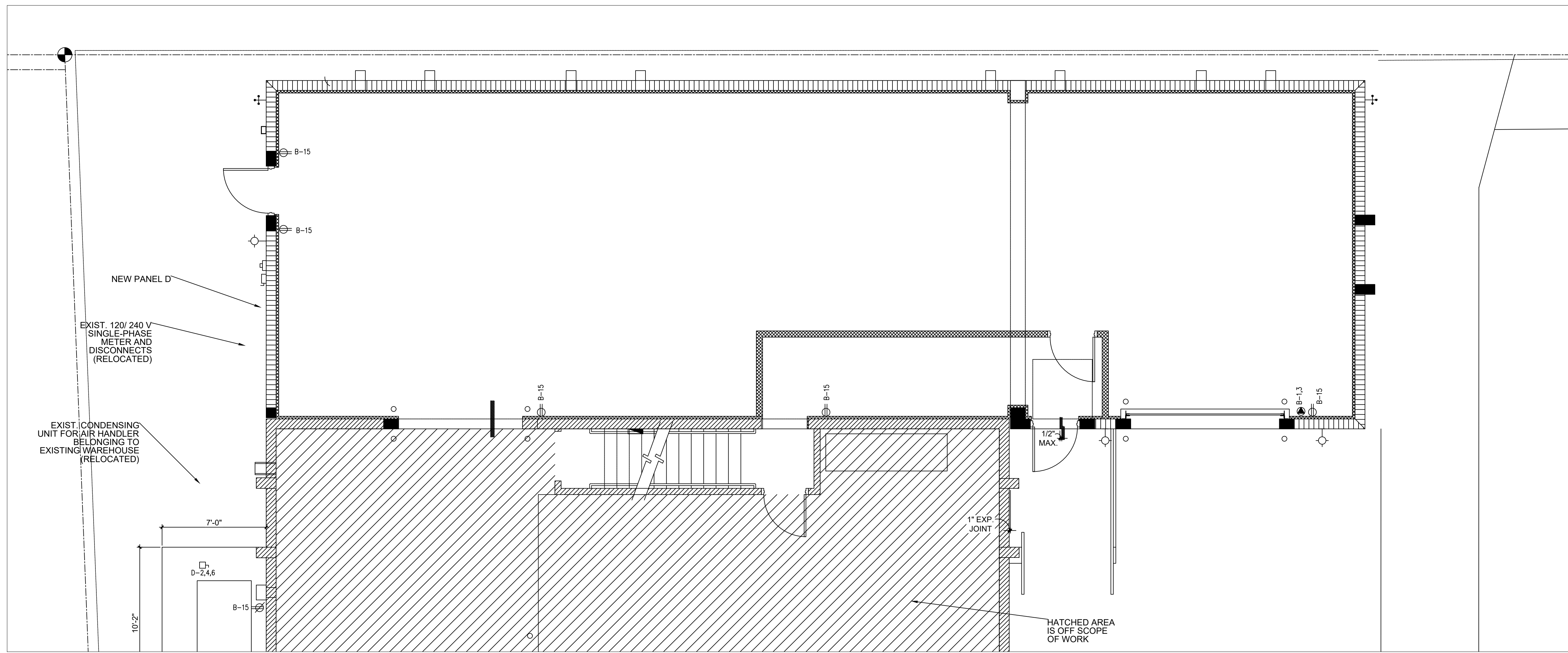


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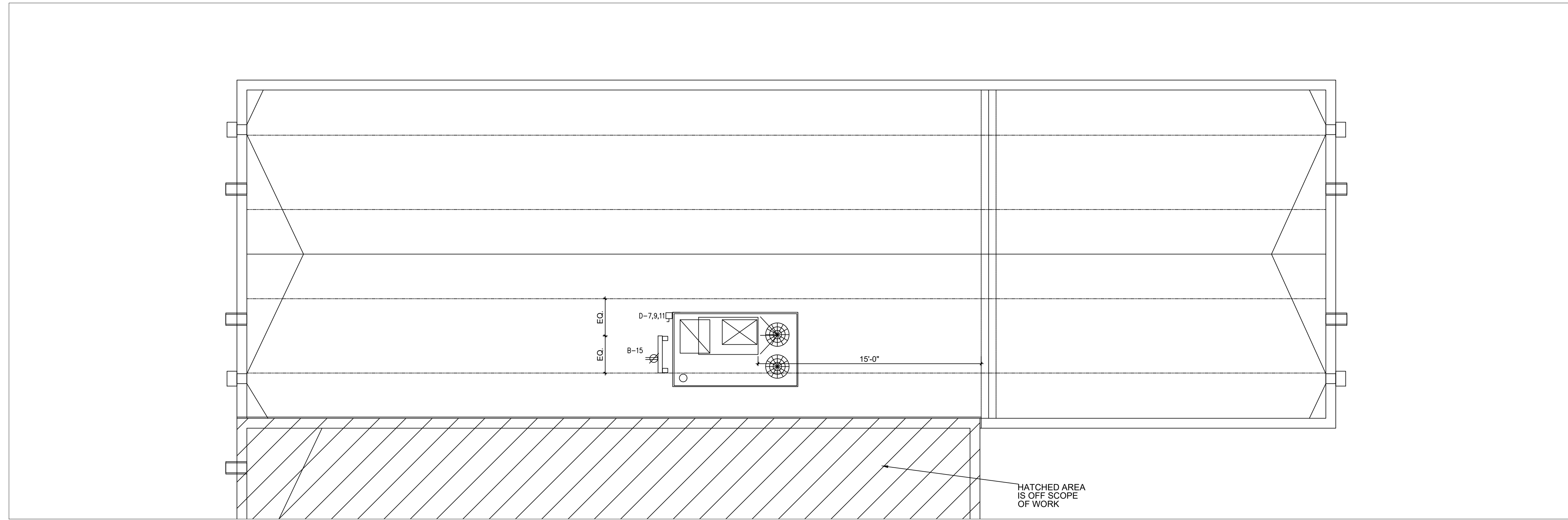
GENERAL LAYOUT AND LIGHTS

E-2.0

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1 FLOOR PLAN - POWER
SCALE: $\frac{1}{4}''=1'-0''$

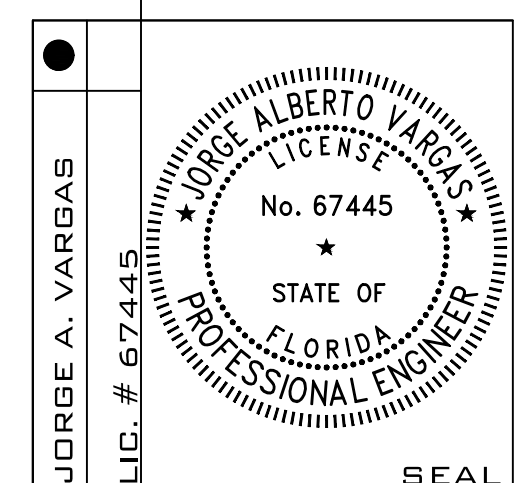


2 ROOF PLAN - POWER
SCALE: $\frac{1}{8}''=1'-0''$

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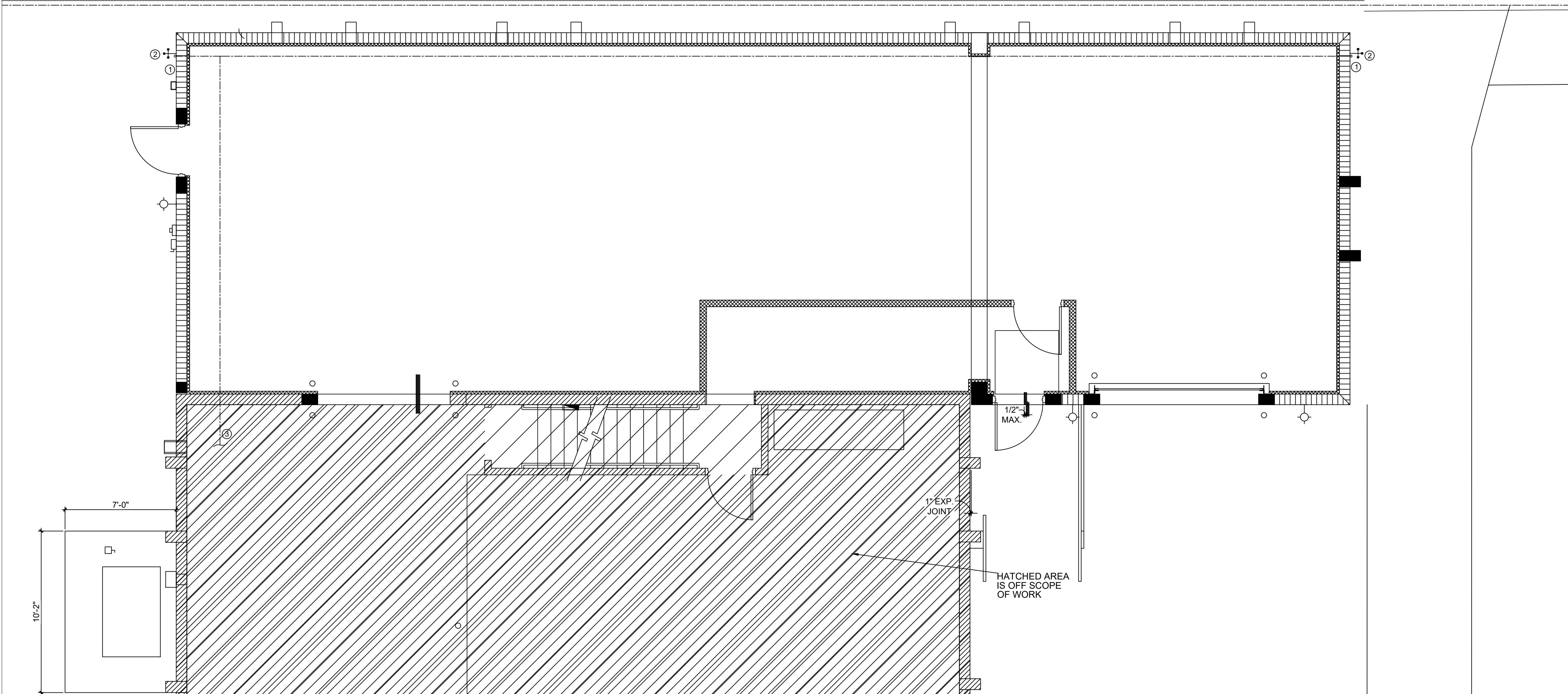
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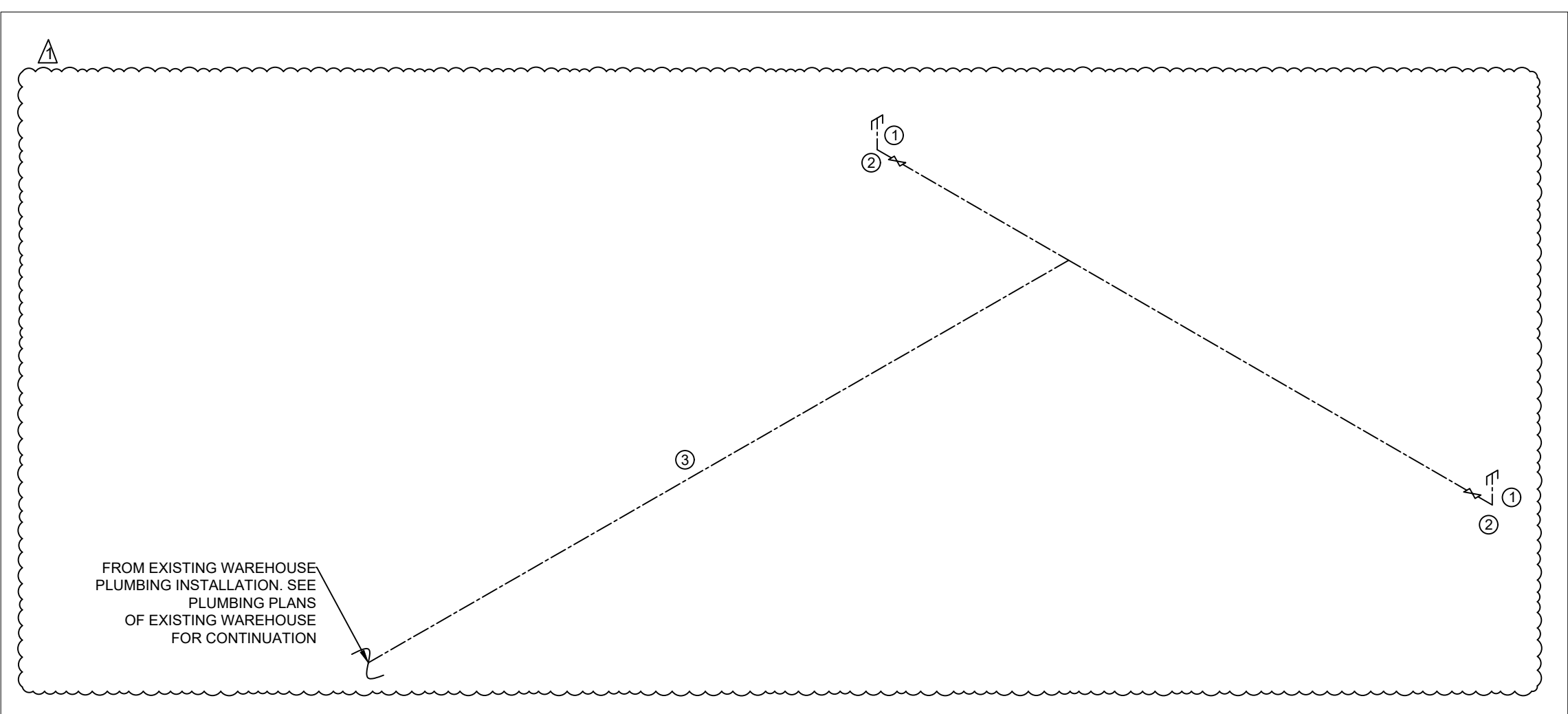
POWER - FLOOR PLAN AND ROOF PLAN

PLUMBING KEY	
①	1/2" C.W. LINE B.F.F. UP TO HOSE BIBB. FIELD COORDINATE EXACT LOCATION.
②	1/2" C.W. HOSE BIBB WITH S.O.V. AND VACUUM BREAKER. FIELD COORDINATE EXACT LOCATION.
③	1/2" C.W. LINE BELOW GRADE. SEE EXISTING PLUMBING SITE PLAN FOR CONTINUATION. FIELD COORDINATE EXACT LOCATION.

TOTAL OCCUPANCY	
-	STORAGE ADDITION WILL HAVE 6.00 OCCUPANTS.
-	EXISTING BUSINESS GROUND LEVEL 8.00 OCCUPANTS.
-	EXISTING STORAGE GROUND LEVEL 9.00 OCCUPANTS.
-	EXISTING STORAGE SECOND LEVEL 6.00 OCCUPANTS.



① FLOOR PLAN - WATER DISTRIBUTION
SCALE: 1/4"=1'-0"



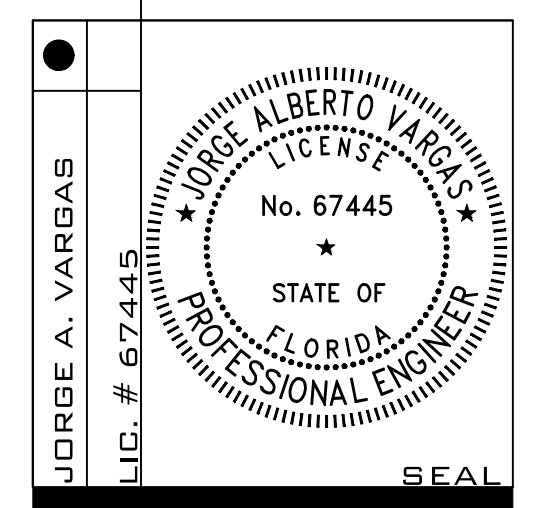
② ISOMETRIC - WATER DISTRIBUTION
N.T.S.

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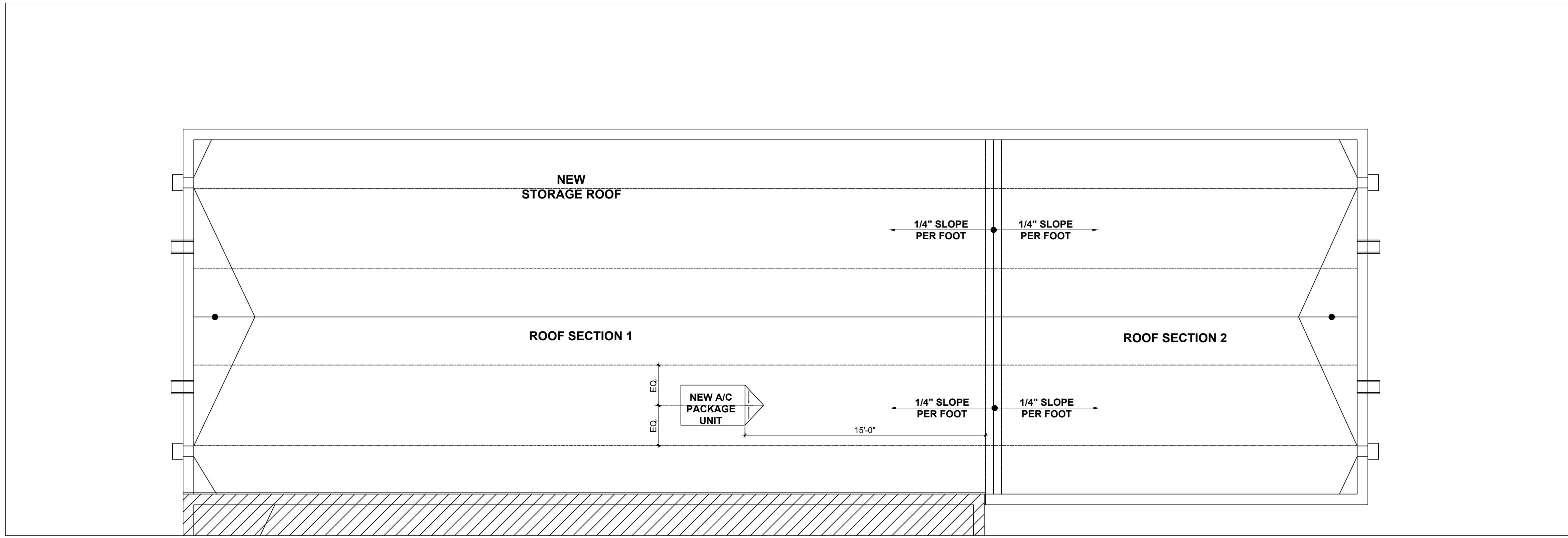


WATER DISTRIBUTION

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V3
ARCHITECTURAL GROUP



1 ROOF PLAN - DRAINAGE
SCALE: 1/4"=1'-0"

	Roof Section 1	Roof Section 2
Sq. Ft. - 1/4" per foot slope	1080	485
GPM	56.16	25.22
Pipe size	3"	2"

SCOPE OF WORK

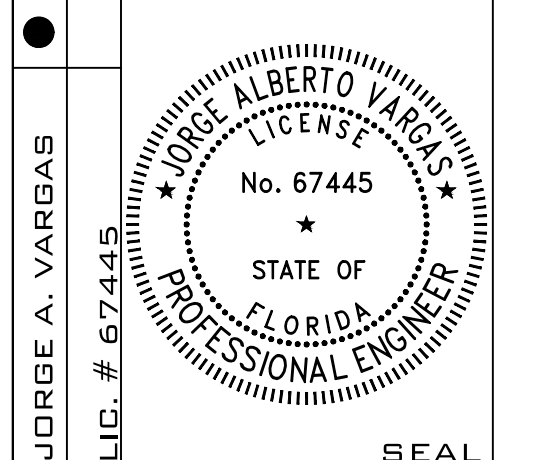
STORM WATER DRAINAGE SYSTEM ONLY FOR NEW-ADDITION ROOF AS PER ROOF CONFIGURATION AND SLOPES. THE DRAINAGE SYSTEM PERTAINING TO THE EXISTING PART OF THE BUILDING IS EXISTING TO REMAIN.

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ROOF DRAINAGE

P-3.0

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UNITS SCHEDULE		
UNIT DESIGNATION	ROOFTOP PACKAGE UNIT	
SEER	13.2	
OPERATION WEIGHT (LBS)	1190	
DESIGN MANUFACTURER	LENNOX	
MODEL NO	LCH120H4B	
CONFIGURATION	HORIZONTAL	
DIMENSION (WXDXH)	60"X101"X47"	
TOTAL CFM	3800	
EXT STATIC PRESSURE	0.8	
FAN MOTOR HP	3	
FAN FLA	10.6	
ELECTRICAL SERVICE AVAILABLE	208/3/60	
TOTAL CAPACITY (BTU/H)	114,000	
SENSIBLE CAPACITY	112,000	
ENTERING TEMP °F DB/WB	75/ 50	
LEAVING AIR TEMP	55	
HEAT CAPACITY (KW)	22	
NO OF HEAT STEP	2	
MCA/MOP	72/ 80	
UNIT DESIGNATION	CU-1	
OPERATING WEIGHT (LBS)		
DESIGN MANUFACTURER	LENNOX	
MODEL	BUILT-IN	
DIMENSION (WXDXH)	N/A	
TYPE OF FAN	PROPELLER	
FAN-AMP	4.80	
NO OF COMPRESSOR	2	
COMPRESSOR RLA-LRA	32-47.4	
MCA/MOP	17.8 /30	
ELECTRICAL SERVICE AVAILABLE	230/1/60	
REFRIGERANT	R410A	
REFRIGERANT PIPES	L-3/8 G-3/4	

DUCTWORK INSULATION (FBC 2020)

LOCATION	SUPPLY DUCT	RETURN DUCT
EXTERIOR OF BUILDING	R-6	R-4.2
VENTILATED ATTIC	R-6	R-4.2
UNVENTED ATTIC ABOVE INSULATED CEILING	R-6	R-4.2
UNVENTED ATTIC WITH ROOF INSULATION	R-4.2	NONE
UNCONDITIONED SPACES	R-4.2	R-4.2
INDIRECTLY CONDITIONED SPACES	NONE	NONE
CONDITIONED SPACES	NONE	NONE
BURIED	R-4.2	NONE

* APPLY FOR THIS PROJECT.
NOTE: DRYER EXHAUST DUCT SHALL BE INSULATE WITH R-6.

AIR DEVICE SCHEDULE					
ITEM	MANUF./CAT NO.	TYPE	NECK	FRAME	FINISH
			0 - 125 CFM = 6"Ø 130 - 150 CFM = 6"Ø 160 - 275 CFM = 8"Ø 280 - 390 CFM = 10"Ø 400 - 500 CFM = 12"Ø	SEE PLANS	BAK. WHT. ENAMEL
A	TITUS SUPPLY WALL GRILLE MODEL 250 (3 AND 2 WAY)	WG	SEE PLANS	SEE PLANS	BAK. WHT. ENAMEL
B	TITUS RETURN WALL GRILLE MODEL 355R	WG	SEE PLANS	SEE PLANS	BAK. WHT. ENAMEL

DEVICE TYPE LEGEND:

CG = CEILING GRILLE
 RCG = RETURN AIR GRILLE (EGG CRATE FACE TYPE)
 WG = SUPPLY WALL GRILLE
 RWG = RETURN WALL GRILLE

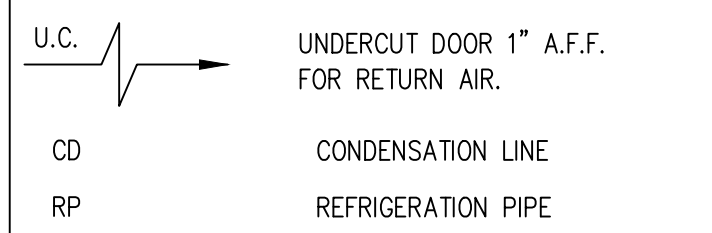
NOTES:

- PROVIDE CEILING DEVICES WITH PROPER FRAME STYLE TO MATCH CEILING OR WALL TYPE AS CALLED FOR BY ARCHITECT.
- DEVICES SHALL BE PROVIDED WITH FACTORY FINISH.
- AIR DEVICES SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE OR SHOWN ON PLANS WITH DIRECTIONAL ARROW(S).
- IF NECESSARY, PROVIDE TOP HAT FOR GRILLES AND DIFFUSERS.
- PROVIDE EQUALIZING GRID (PRICE MODEL EG.) FOR DIFFUSERS TAPPED DIRECTLY FROM BOTTOM OF DUCT.
- PROVIDE OPPOSED BLADE DAMPER (PRICE MODEL D-57) WHERE 3-WAY THROW IS NOTED, INSTALL BAFFLES IN THE NECK OF DIFFUSERS.
- PROVIDE OPPOSED BLADE DAMPER FOR REGISTERS.

BATHROOM EXHAUST FAN SPECS

EF-1: "NUTONE" MODEL QTXEN-50, 50 CFM AIR DELIVERY @ 1/10" SP, 115 VOLTS, 60 Hz, 0.3 AMP. CEILING MOUNTED W/B.D.D. BUILT-IN.

EF-2: "NUTONE" MODEL QTXEN-80, 80 CFM AIR DELIVERY @ 1/10" SP, 115 VOLTS, 60 Hz, 0.4 AMP. CEILING MOUNTED W/B.D.D. BUILT-IN.



NOTE: USE LONG LINE APPLICATION REFRIGERANT PIPES IN DISTANCES WITH 75' OR MORE IN LENGTH AND 52' OR MORE IN HEIGHT.

SCOPE OF WORK

NEW HVAC UNITS FOR WAREHOUSE
NEW ADDITION

HVAC DESIGN SCHEDULE.

HVAC DESIGN REQUIRES:	YES	NO	REMARKS
DUCT SMOKE DETECTOR(S)		NO	
FIRE DAMPER(S)		NO	
SMOKE DAMPER(S)		NO	
FIRE RATED ENCLOSURE		NO	
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		NO	
FIRE STOPPING		NO	
SMOKE CONTROL		NO	

NOTE: CONDENSING UNIT SHALL BE INSTALLED ⑥ ABOVE BASE FLOOD ELEVATION AND PER FMC 301.16

DRAWING INDEX

MECHANICAL
 M-1.0 HVAC NOTES AND SCHEDULES
 M-2.0 HVAC FLOOR PLAN
 M-3.0 HVAC DETAILS
 M-4.0 BORA COMPLIANCE

H.V.A.C. NOTES

- ALL WORK SHALL BE AS PER 2020 7TH EDITION F.B.C. AND NFPA
- ALL HEATING AND AIR CONDITIONING DUCT WORK SHALL BE FIBERGLASS, ENDURA GOLD TYPE, AS MANUFACTURED BY OWENS-CORNING, W/BACTERIAL / FUNGAL GROWTH RESISTANCE, TYPE 800 (1.5" THICK R-6). ALL BATHROOM AND DRYER EXHAUST DUCTS SHALL BE 30 GA. GALV. METAL WITHOUT INSULATION. HOOD EXHAUST DUCT SHALL BE 26 GA. GALV. METAL WITHOUT INSULATION AND W/WIRE MESH. PROVIDE A UV LIGHT IN EACH AIR HANDLING UNIT. SUPPLY AND RETURN DUCTS IN ATTICS SHALL BE INSULATED TO A MINIMUM OF R-8 WHERE 3 INCHES (76 MM) IN DIAMETER AND GREATER AND R-6 WHERE LESS THAN 3 INCHES (76 MM) IN DIAMETER. SUPPLY AND RETURN DUCTS IN OTHER PORTIONS OF THE BUILDING SHALL BE INSULATED TO A MINIMUM OF R-6 WHERE 3 INCHES (76 MM) IN DIAMETER OR GREATER AND R-4.2 WHERE LESS THAN 3 INCHES (76 MM) IN DIAMETER. EXCEPTION: DUCTS OR PORTIONS THEREOF LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE.
- DUCT WORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS & ACCORDING TO ASHRAE & SMACNA STANDARDS AND IN COMPLIANCE WITH UL 181.
- DUCT DIMENSIONS ARE IN INCHES AND CORRESPOND TO INSIDE DIMENSIONS WIDTH x HEIGHT. DUCT SYSTEM SHALL COMPLY WITH NFPA STD. NO. 90A AND/OR 90B. DUCTWORK AND MATERIALS SHALL BE CLASS 1 MATERIALS IN ACCORDANCE WITH U.L. 181 TESTS.
- COORDINATE LOCATIONS, SIZES & OPENINGS W/OTHER TRADES ON THE JOB. A/C CONTRACTOR SHALL PROVIDE THE COMPLETE DUCT SYSTEM W/TURNING VANES AT ALL ELBOWS. SPLITTERS AND DAMPERS AS REQUIRED. A/C CONTRACTOR SHALL USE THE BEST PRACTICES OF THE TRADE IN THE FABRICATION AND INSTALLATION OF THE SYSTEM.
- ALL SUPPLY AIR AND RETURN AIR GRILLES/DIFFUSERS SHALL BE NEW, AND SHALL BE LOCATED AND BALANCED IN ORDER THAT THEY DELIVER THE REQUIRED CFM TO THE ENTIRE ROOM EVENLY & DRAFT FREE TO MAINTAIN THE FOLLOWING DESIGN CONDITIONS:

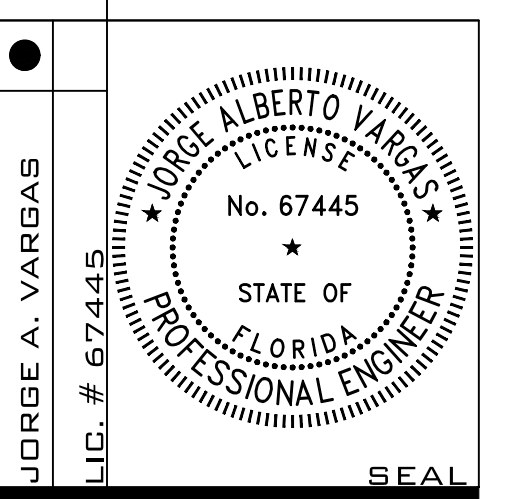
INSIDE	OUTSIDE	RELATIVE HUMIDITY
COOLING - 76 DB	90 DB - 79 WB	50% TO 60%
HEATING - 72 DB	45 - DB	
- ALL TEMPERATURE CONTROLS SHALL BE DIGITAL PROGRAMMABLE THERMOSTAT MOUNTED WHERE SHOWN ON PLANS, AT 5"-0" A.F.F.
- ALL NEW GRILLES AND DIFFUSERS TO BE ALUMINUM CONSTRUCTION. DIFFUSERS SHALL HAVE HIDDEN OPPOSED BLADE DAMPERS. PROVIDE GASKETS ON ALL GRILLES & DIFFUSERS.
- PROJECT ARCH. SHALL REVIEW AND APPROVE ALL DIFFUSER TYPES & FINISHES PRIOR TO PURCHASE AND INSTALLATION.
- CONTRACTOR SHALL FIELD VERIFY/COORDINATE ALL CONDITIONS AND PARAMETERS W/OTHER TRADES INVOLVED W/THE PROJECT.
- REFRIGERANT PIPING (SUCTION) SHALL BE INSULATED WITH MINIMUM 3/4" THICK ARMAFLEX INSULATION.
- ALL AIR HANDLING UNITS SHALL BE INSTALLED WITH 4" CLEARANCE ALL AROUND INSIDE MECHANICAL CLOSET.
- PLACE ALL GRILLES MIN. 12" AWAY FROM WALLS TO ACCOMMODATE FOR DRYWALL AND MOLDINGS.
- HVAC SYSTEMS SPECIFIED ON THIS PLAN AND INSTALLED AT THE PROJECT SITE. WILL NOT BE USED AND IN OPERATION DURING WOOD FLOOR SANDING PROCESS.
- UPON COMPLETION OF CONSTRUCTION, PRIOR TO THE DELIVERY OF THE HVAC SYSTEMS, ALL AIR HANDLING UNITS (COILS AND FAN SECTION) WILL BE CLEANED.
- AT THE TIME OF INITIAL HVAC SYSTEM START-UP, THE FOLLOWING STEPS WILL BE FOLLOWED:
 - COMPLETE HVAC SYSTEM WILL BE BALANCED AT EACH ZONE, WITHIN 5% OF SPECIFIED VALUES.
 - FAN SPEED SETTING AT EACH AIR HANDLING UNIT WILL BE VERIFIED AGAINST THE TOTAL AIR FLOW AND SUPPLY AIR TEMP. AT AHU DISCHARGE.
 - SUPPLY AIR TEMPERATURE READINGS WILL BE RECORDED AT AHU DISCHARGE AND AT THE REMOTEST SUPPLY AIR DIFFUSER / GRILLE.
 - RETURN AIR TEMPERATURE READINGS WILL BE RECORDED AT EACH AHU ZONE.
 - SUPPLY AND RETURN AIR DIFFERENTIAL IN THE RANGE OF 15 -20 DEG. WILL BE OBSERVED; OTHERWISE, FAN SPEED SETTINGS WILL BE MODIFIED INORDER TO ACHIEVE SUCH READINGS.
 - SUPPLY AIR TEMPERATURE READING AT EACH AHU DISCHARGE POINT, (RECORDED BY PROBE TYPE INSTRUMENT INSERTED DIRECTLY INTO THE AIR STREAM) WILL NOT BE LOWER THAN 53 DEG. F. OR HIGHER THAN 58 DEG. F.; OTHERWISE FAN SPEED SETTINGS WILL BE CHANGED.
 - ALL OF THE START-UP TESTS NOTED ABOVE WILL BE CARRIED OUT, AFTER THE SYSTEMS HAVE BEEN RUNNING FOR A PERIOD OF 24 HOURS.
 - AT THE CONCLUSION OF THE START UP TESTING, ALL DUCT WORK WITHIN THE ATTIC SPACE WILL BE OBSERVED FOR SIGN OF CONDENSATION ON DUCT SURFACE, DAILY, FOR A PERIOD OF ONE WEEK.
 - IN THE EVENT THAT TEMPERATURE READINGS AND / OR AIR FLOW QUANTITIES, ARE FOUND TO DIFFER FROM THE PARAMETERS NOTED ABOVE, AND / OR CONDENSATION IS OBSERVED ON THE DUCT SURFACE WITHIN THE ATTIC SPACE, PROJECT ARCHITECT AND ENGINEER WILL BE NOTIFIED FOR FURTHER EVALUATION AND IMPLEMENTATION OF CORRECTIVE MEASURES.
- REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS. FBC M-1101.10

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NO.	DESCRIPTION



NOTES AND SCHEDULE

M-1.0

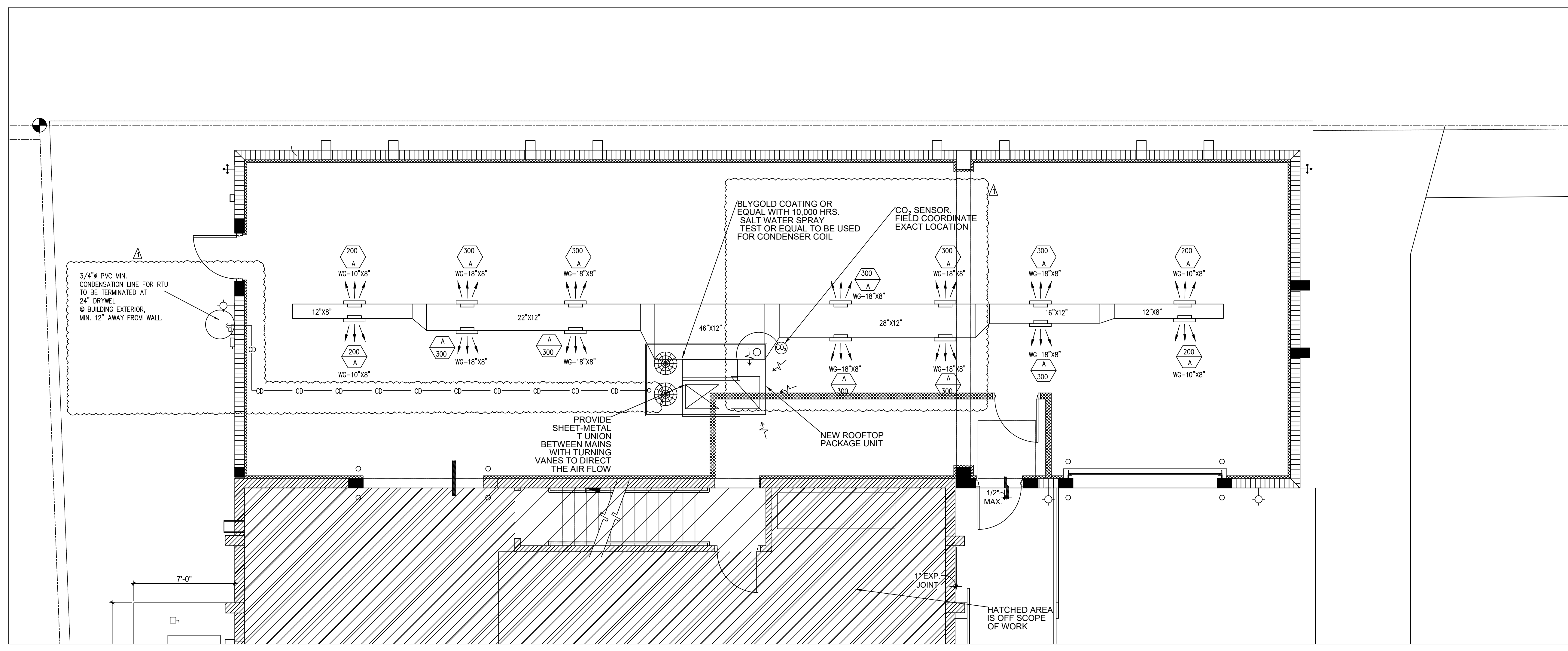
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1 FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

Minimum ventilation Rate as per FBC M. 2020

outdoor airflow rate required in the breathing zone (V_{bz}):

$$V_{bz} = R_p \cdot P_z + R_a \cdot A_z$$

$$V_{bz} = 10 \cdot 6 + 0.12 \cdot 1568 = 248.16 \text{ cfm}$$

where:

- A_z = Zone floor area: the net occupiable floor area of the space or spaces in the zone (floor area of new addition space= 1568 sq. ft.).
- P_z = Zone population: the number of people in the space or spaces in the zone.
- R_p = People outdoor air rate: the outdoor airflow rate required per person from Table 403.3.1.1.
- R_a = Area outdoor air rate: the outdoor airflow rate required per unit area from Table 403.3.1.1.

TABLE 403.3.1.1 MINIMUM VENTILATION RATES				
OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY #/1000 FT ²	R _p CFM/PERSON	R _a CFM/FT ²	EXHAUST AIRFLOW RATE CFM/FT ²
Retail stores/sales	—	—	10	0.12
Warehouses (storage)	—	—	10	0.12

The zone outdoor airflow rate (V_{oz}):

Zone Air Distribution Effectiveness...E_z = 0.8 (see Table 403.3.1.1.1.2 for Ceiling supply of warm air and ceiling return

$$V_{oz} = V_{bz} / E_z = 248.16 / 0.8 = 310.2$$

403.3.1.1.2 Single zone systems:

Where one air handler supplies a mixture of outdoor air and recirculated return air to only one zone, the system outdoor air intake flow rate (V_{ot}) shall be determined in accordance with the following:

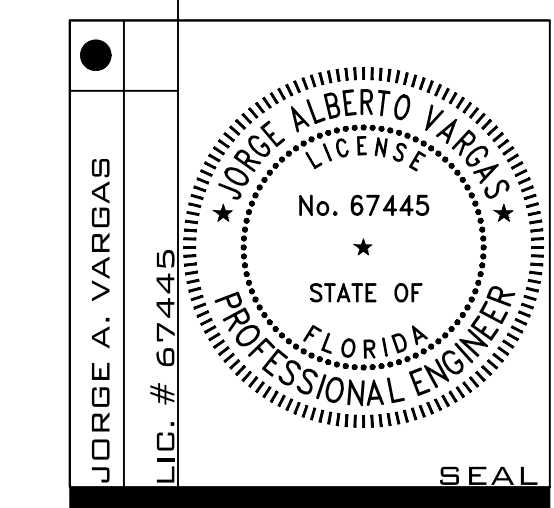
$$V_{ot} = V_{oz} = 310.2 \text{ cfm}$$

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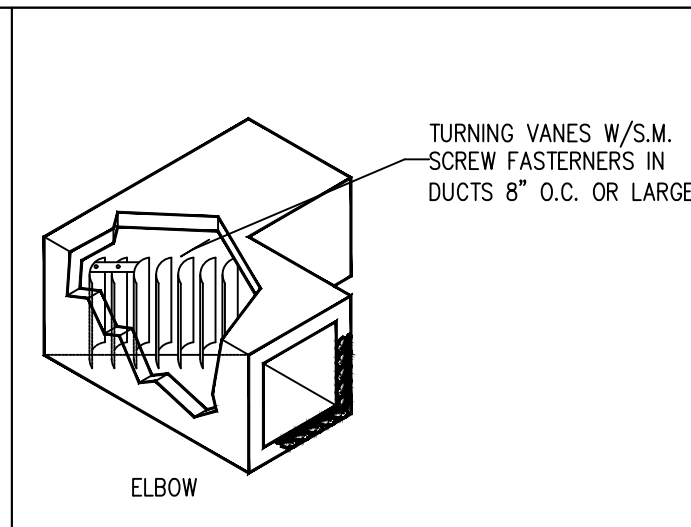
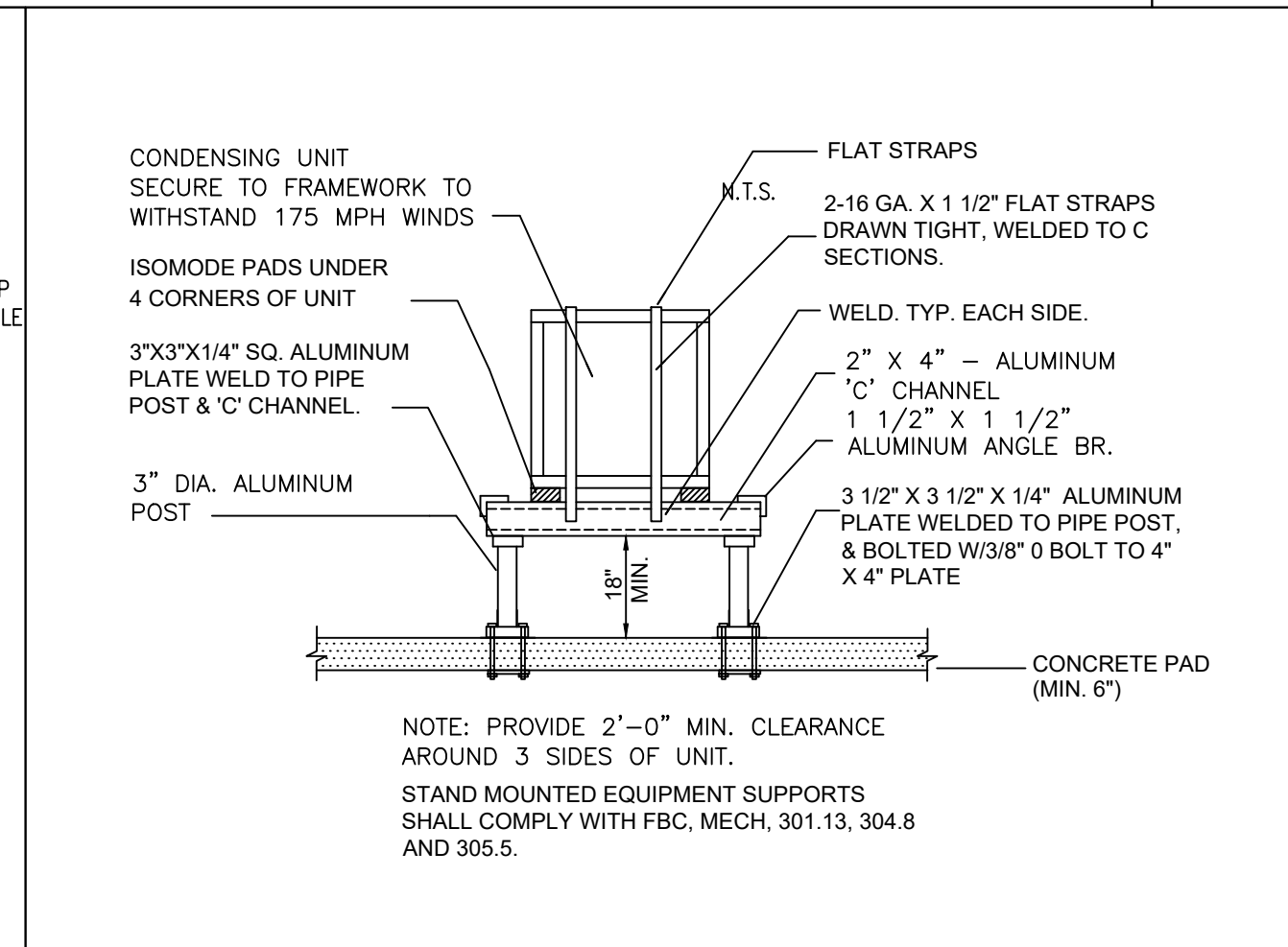
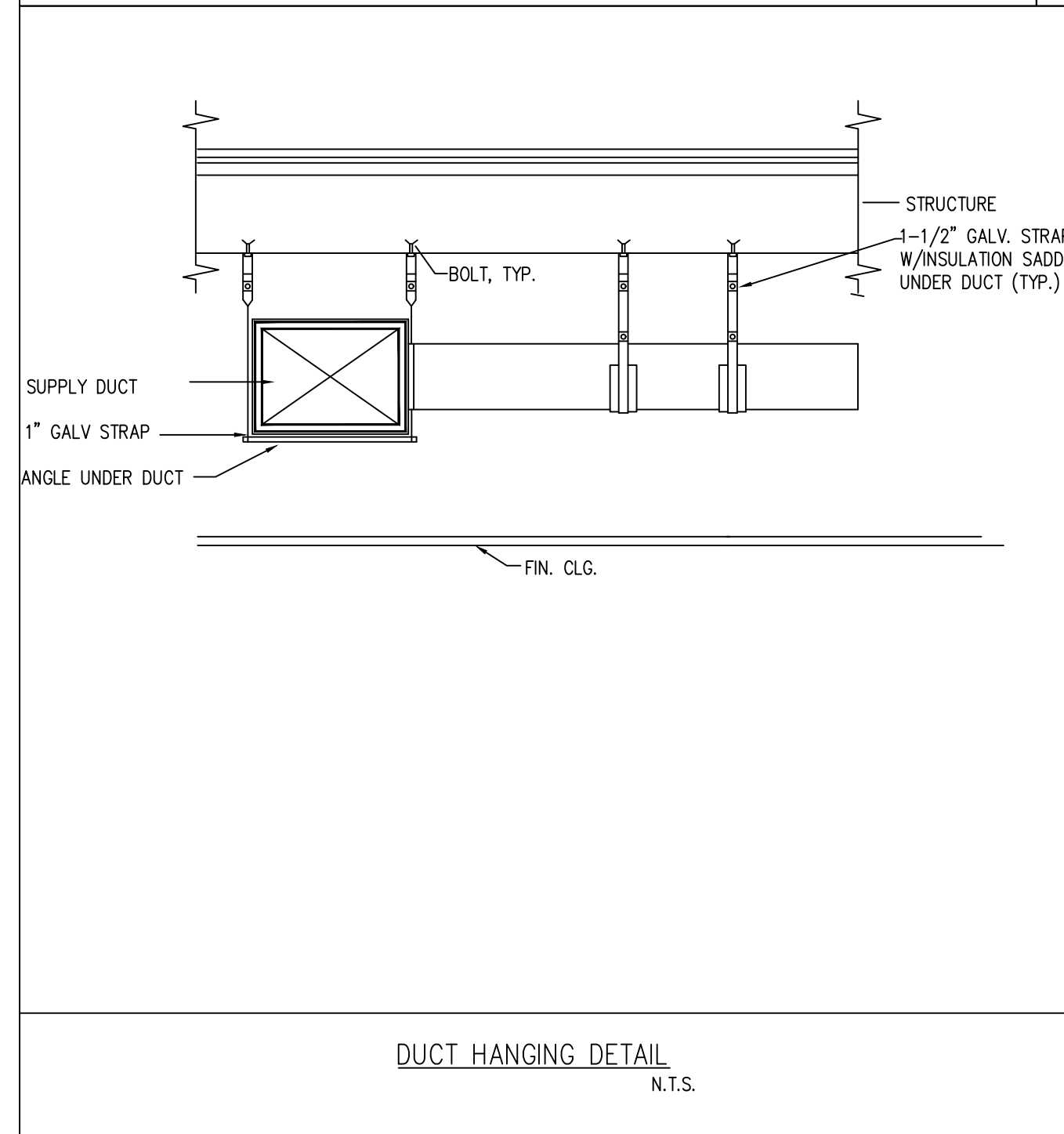
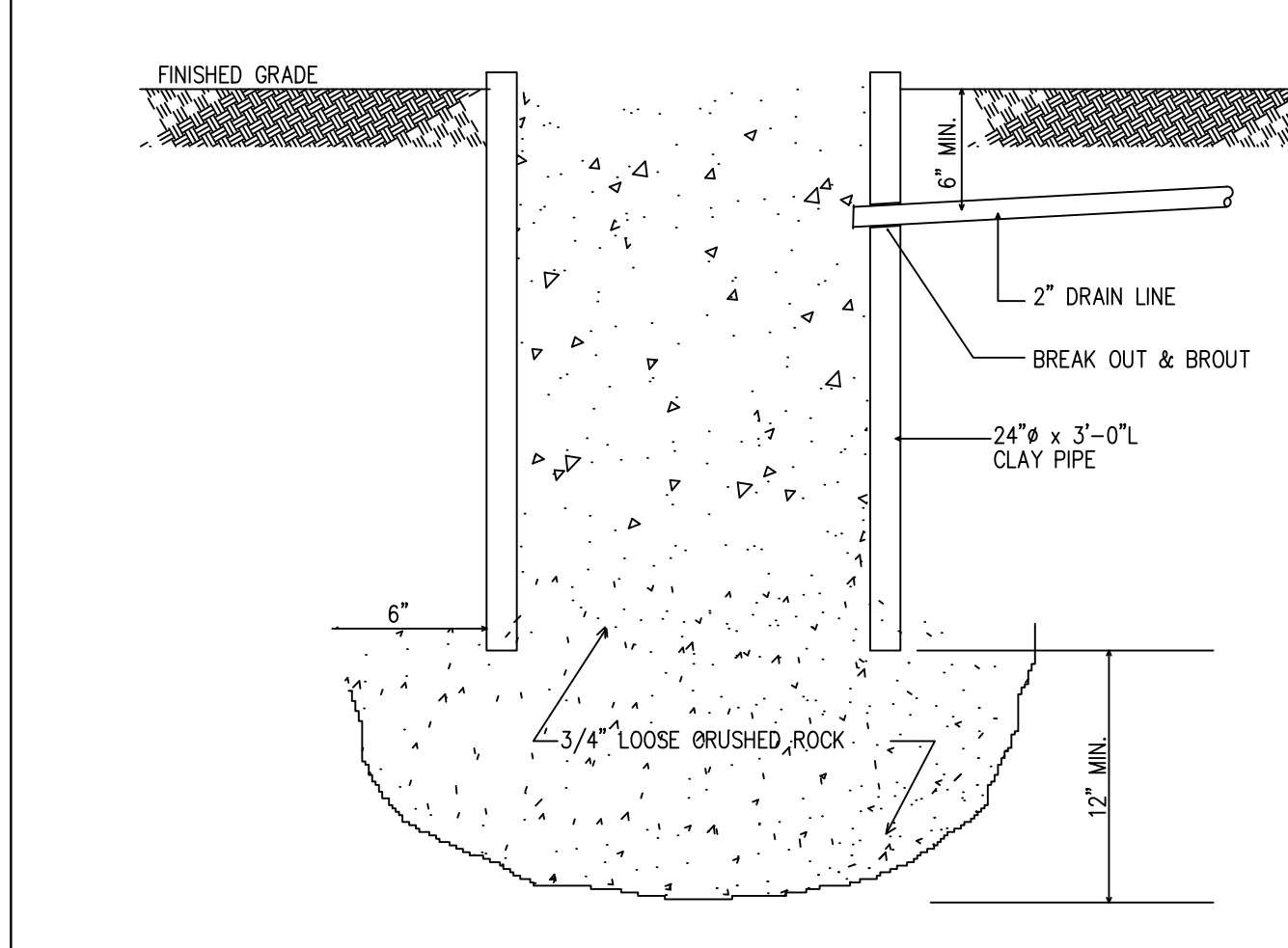
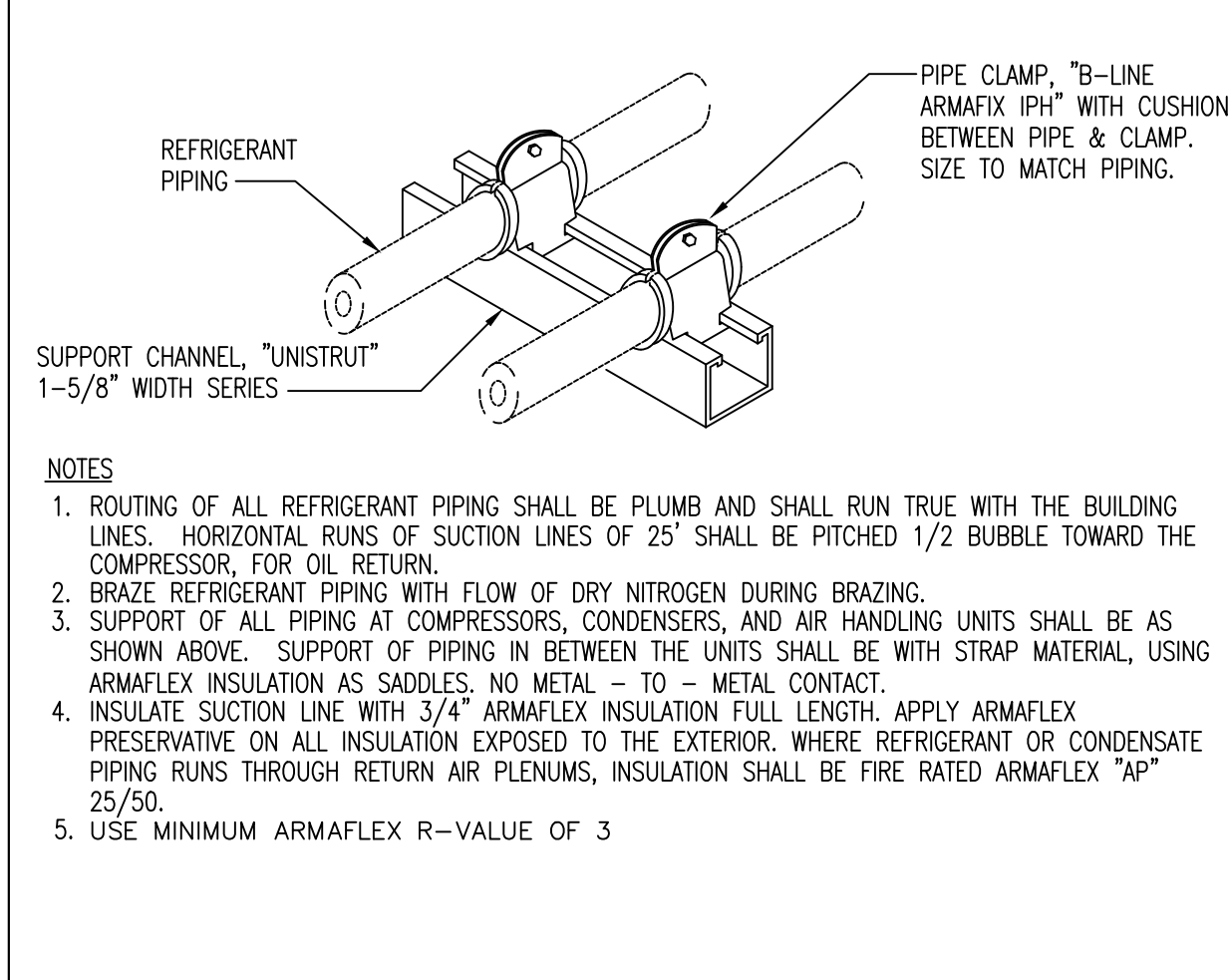
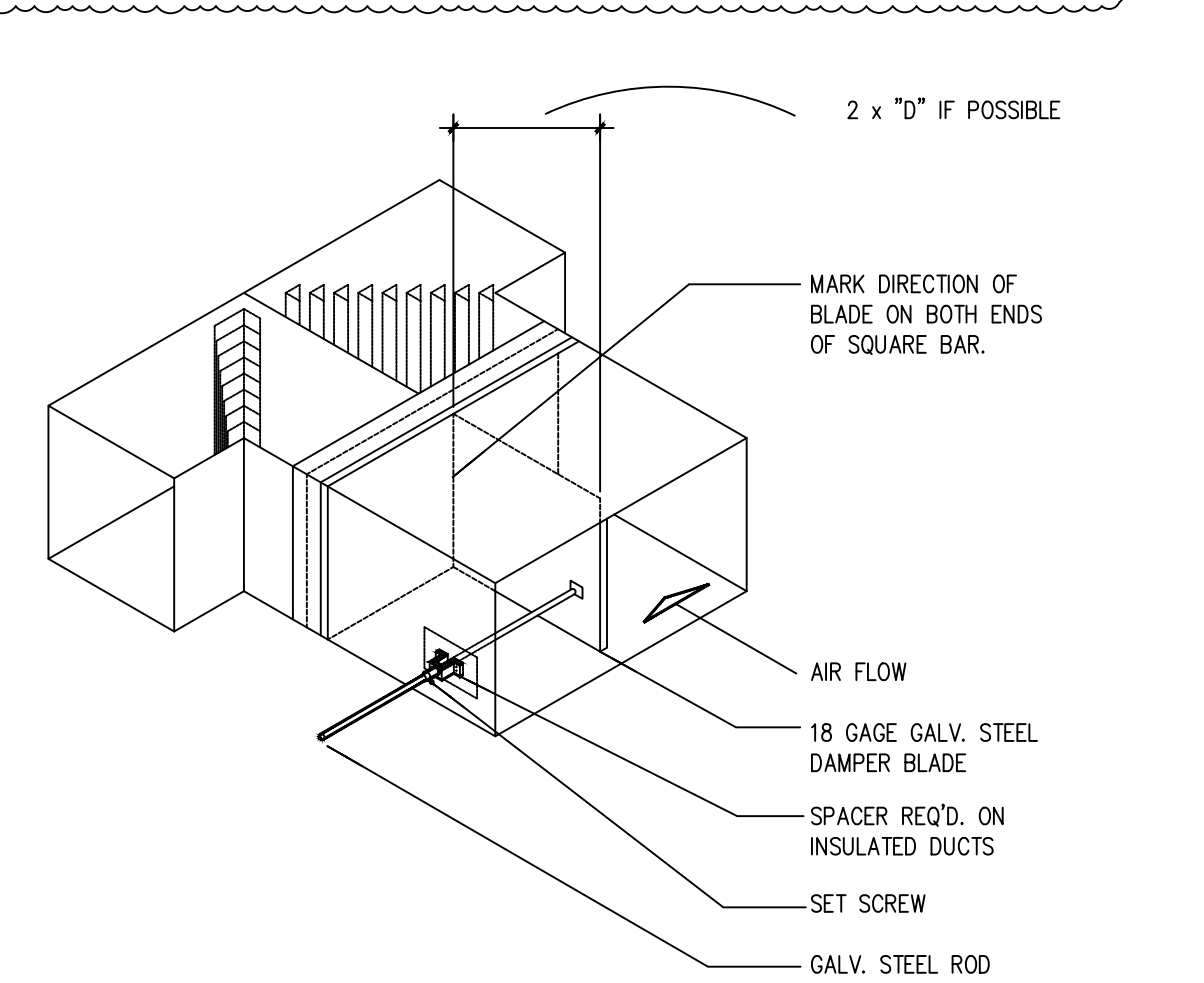
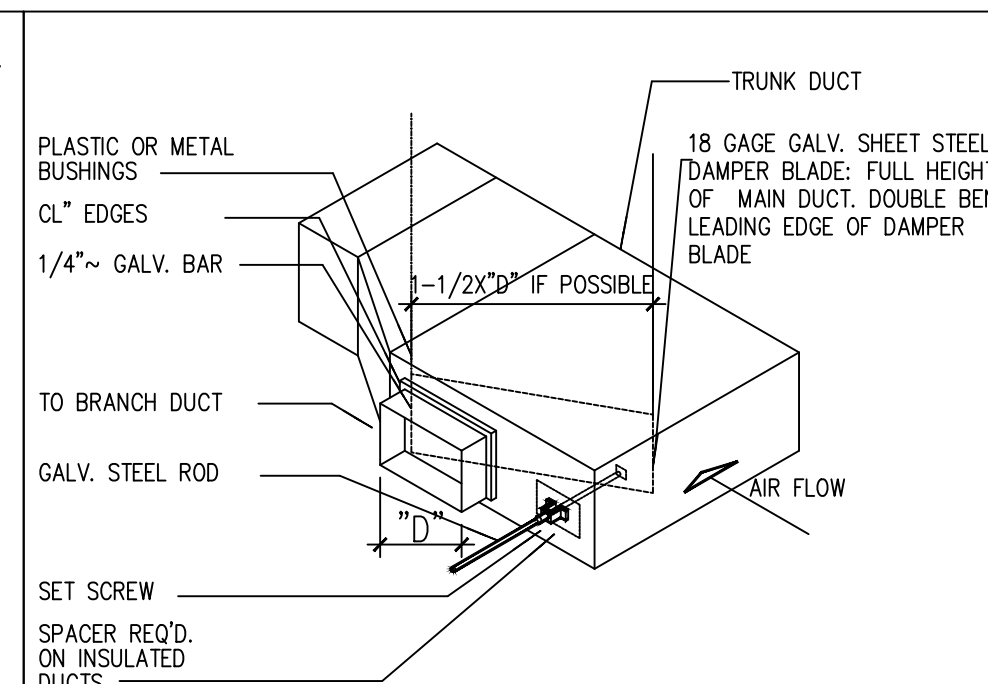
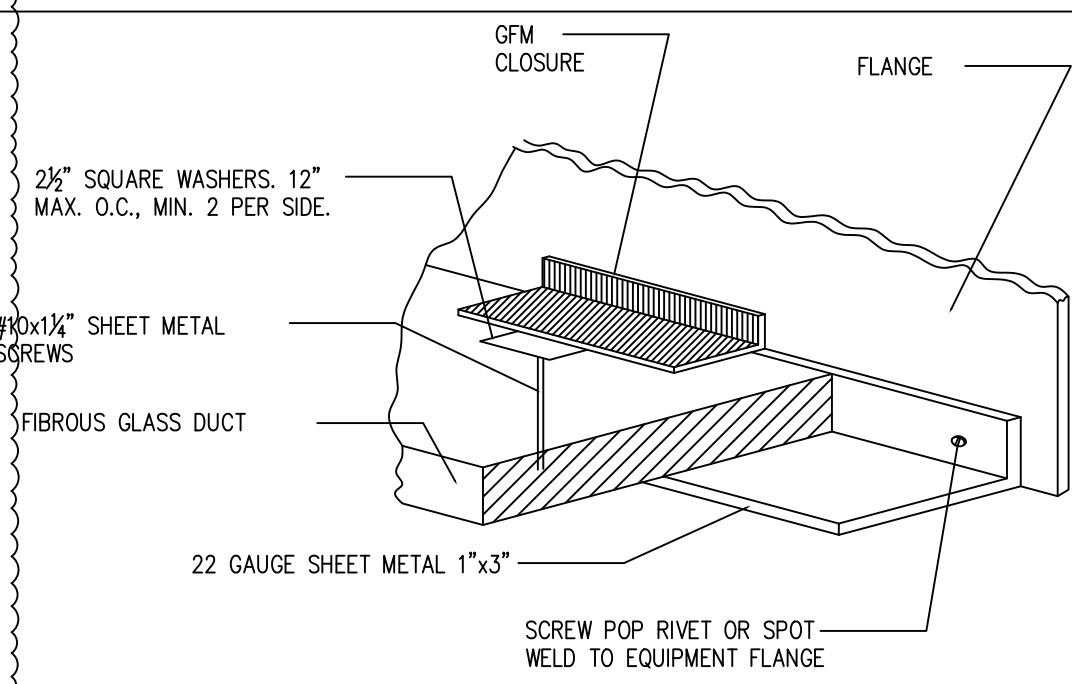
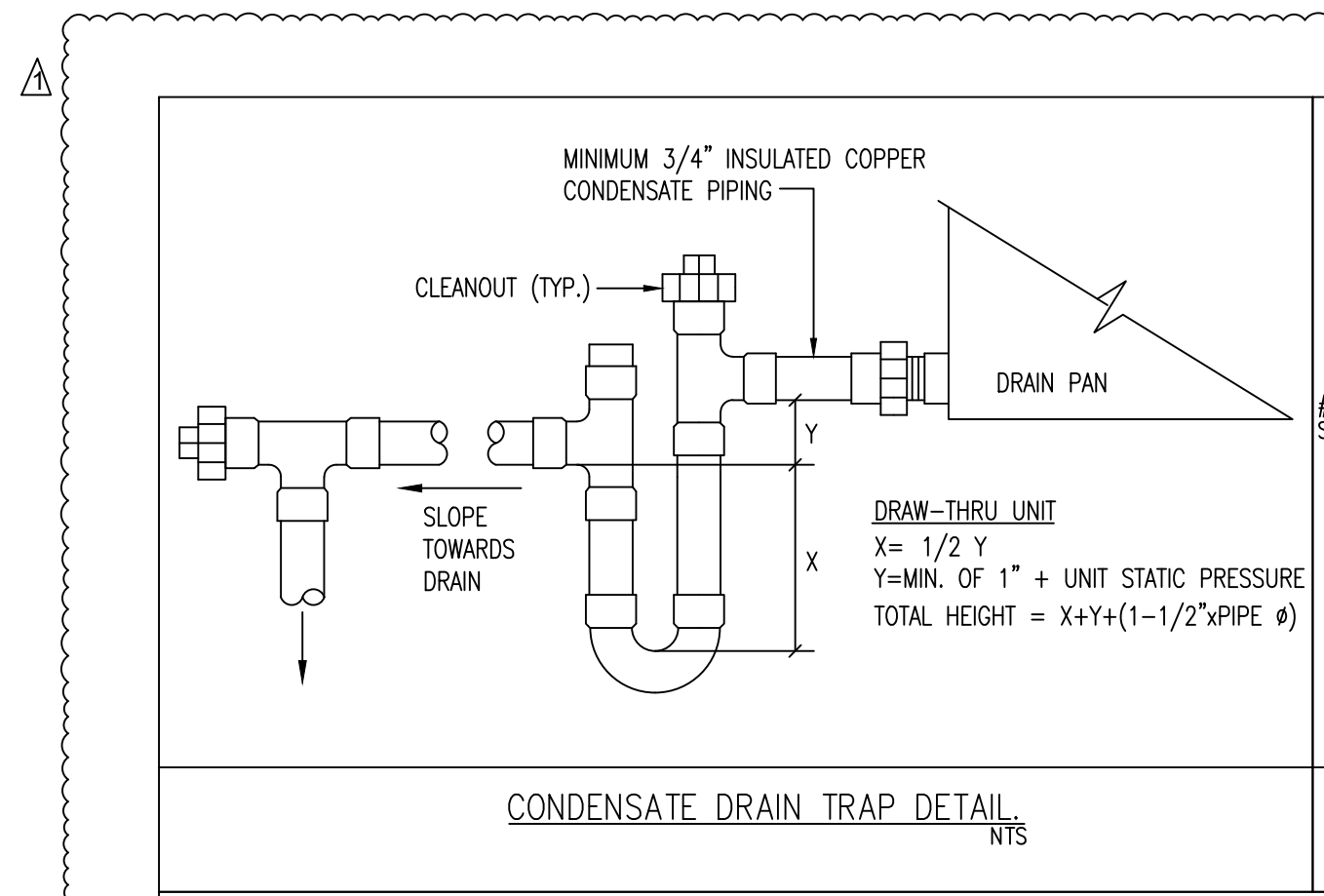


FLOOR PLAN

M-2.0

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CA# 32749



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**HIALEAH HOUSING AUTHORITY
STORAGE BLDG. ADDITION AND ALTERATIONS
815 WEST 75TH ST**

DATE: 12.15.20

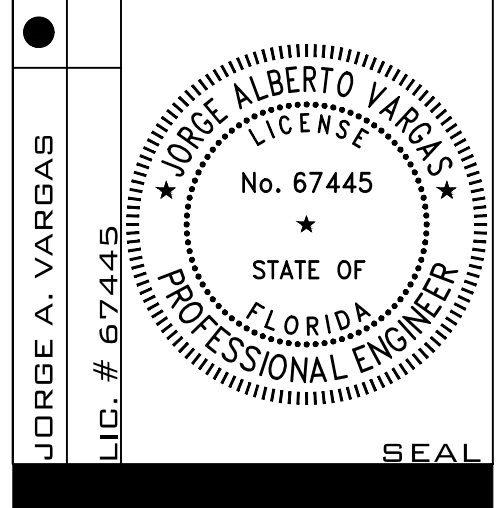
DESIGNED BY: _____

DRAWN BY: _____

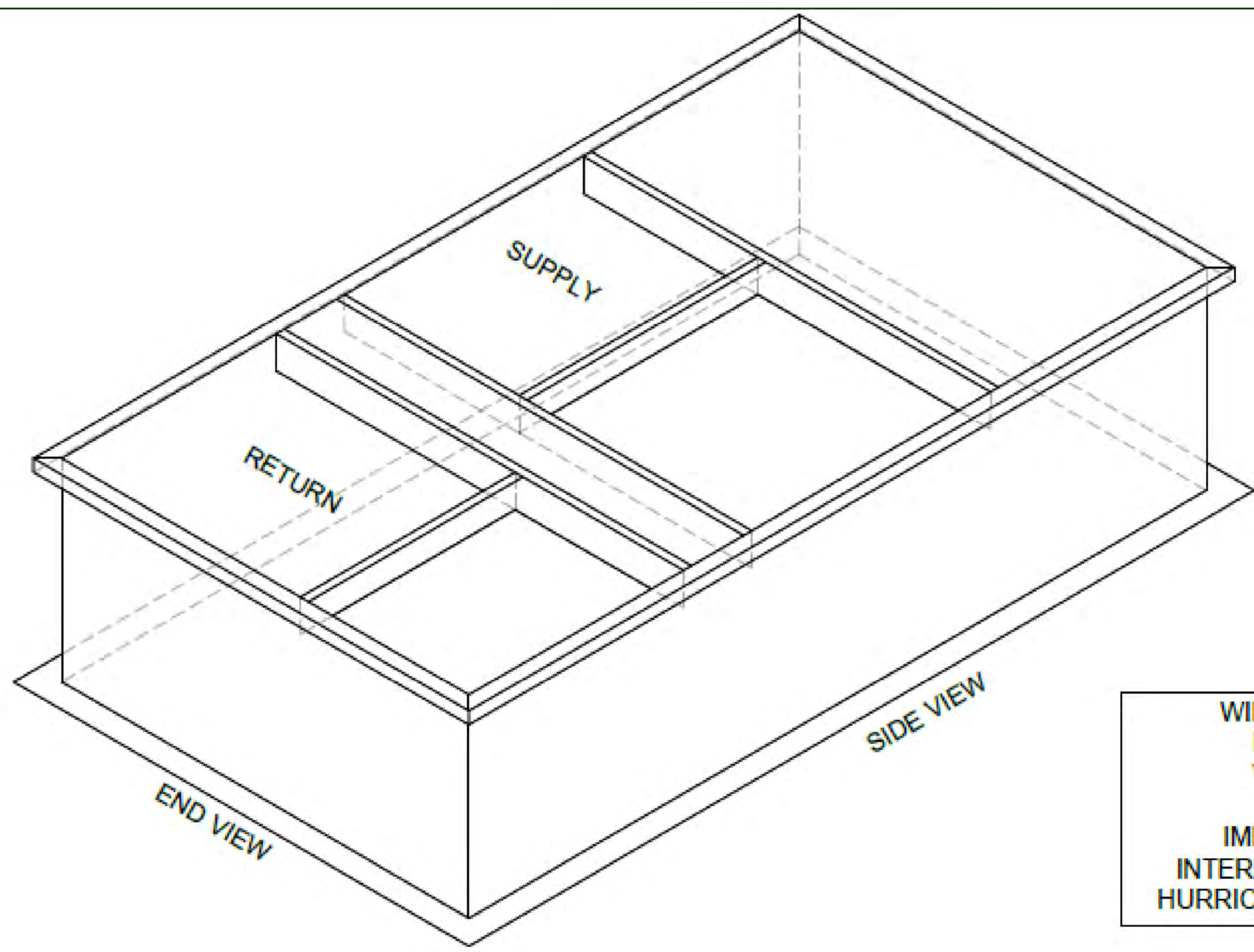
REVIEWED BY: _____

PROJECT NO. 20-0032

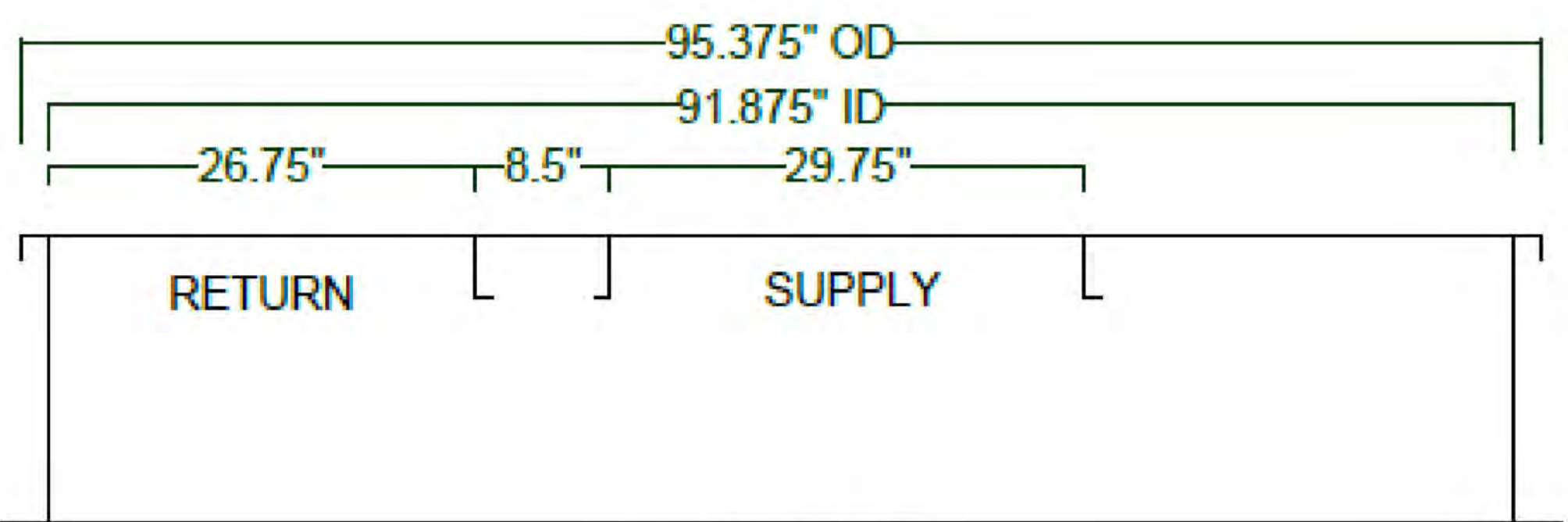
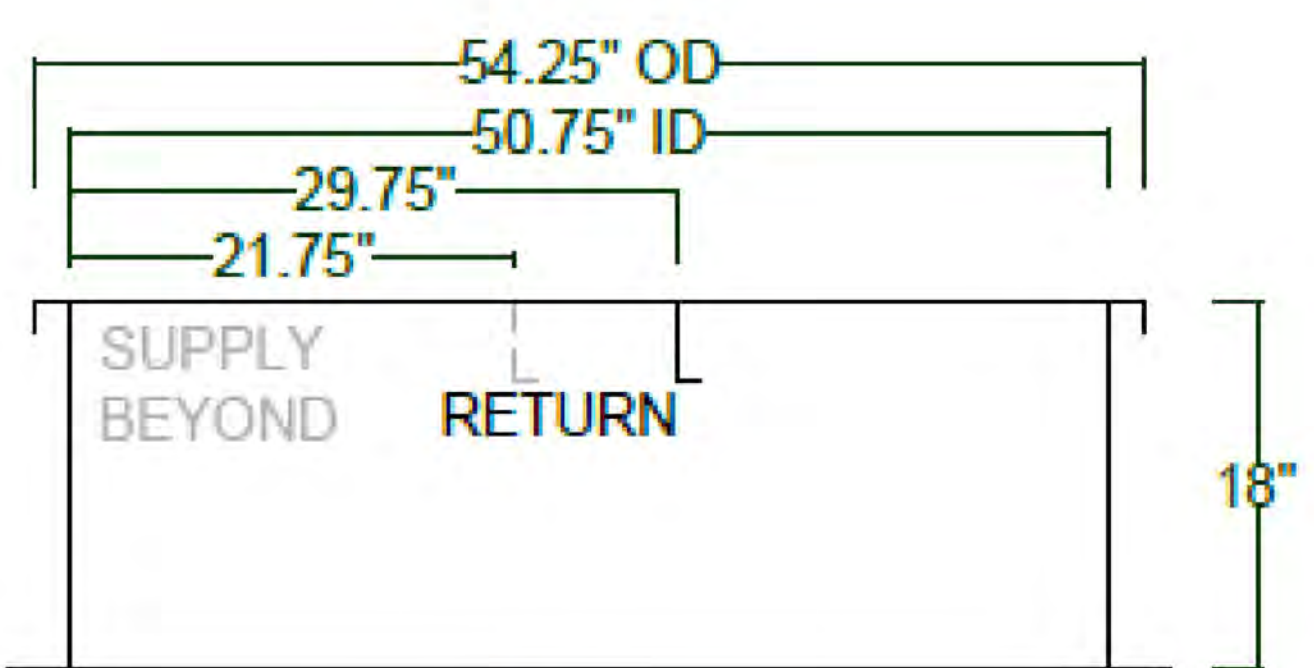
NO.	REVISIONS
1	02/17/2021 BLDG DEPT.



M.E.P. ENGINEER:
Genesis Fortune, LLC
305.778.7342
jorge@genesisfortune.com
CA# 32749



WINDLOAD CERTIFICATION
 FBC 2017 & ASCE 7-10
 WIND SPEED 180 MPH
 EXPOSURE: D
 IMPORTANCE FACTOR: 1.0
 INTERNAL PRESSURE COEFF: 0.00
 HURRICANE RATED 16 GAUGE GALV.



END VIEW

SIDE VIEW

2601 Industrial Ave. 3
Fort Pierce, FL 34946
Curbsfast.Seacoast@Ymail.com
1-800-551-6606

- NOTES:**
1. 16 GA. GALV. STEEL CONSTRUCTION
 2. LIFTING LUGS INCLUDED
 3. SHIPPED FULLY ASSEMBLED
 4. FULLY INSULATED UPON REQUEST

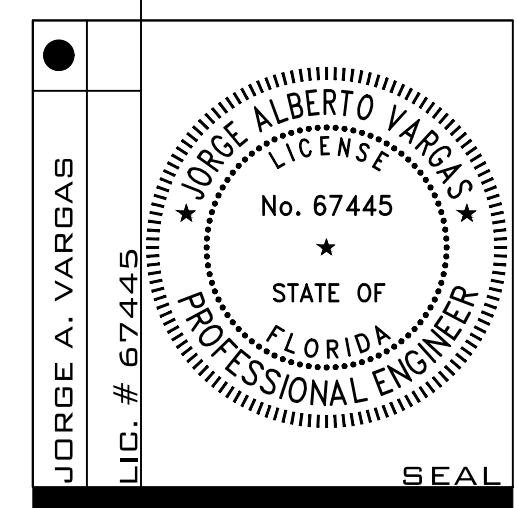
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REVISIONS

1	02/17/2021	BLDG DEPT.
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BORA COMPLIANCE

M-4.0

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