

# MACOMB COUNTY BOARD OF COMMISSIONERS CLEMENS CENTER - COUNTY CLERK STORAGE RENOVATION

ISSUED FOR: CONSTRUCTION DOCUMENTS  
 DATE: July 25, 2024  
 PROJECT NO.: 231987

**ARCHITECT:**

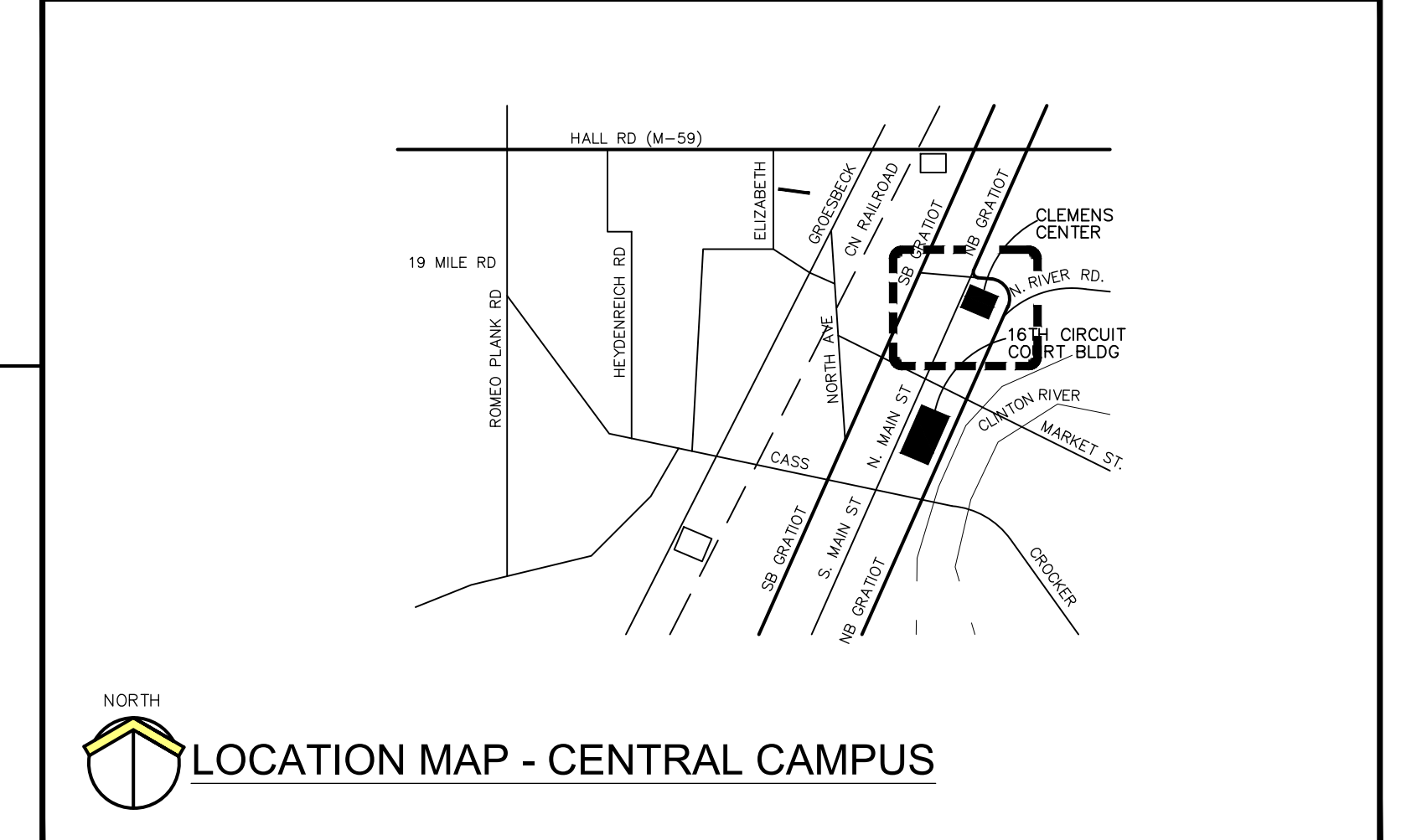
WAKELY ASSOCIATES, INC./ ARCHITECTS  
 30500 VAN DYKE AVE, SUITE 209, WARREN, MI 48093, 586-573-4100

**MECHANICAL/ ELECTRICAL ENGINEERS:**

 UNIFIED BUILDING SYSTEMS ENGINEERING, LLC  
 75 N. MAIN ST. SUITE 221, MT. CLEMENS, MI 48043, 248.804.1741

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**Location Map**



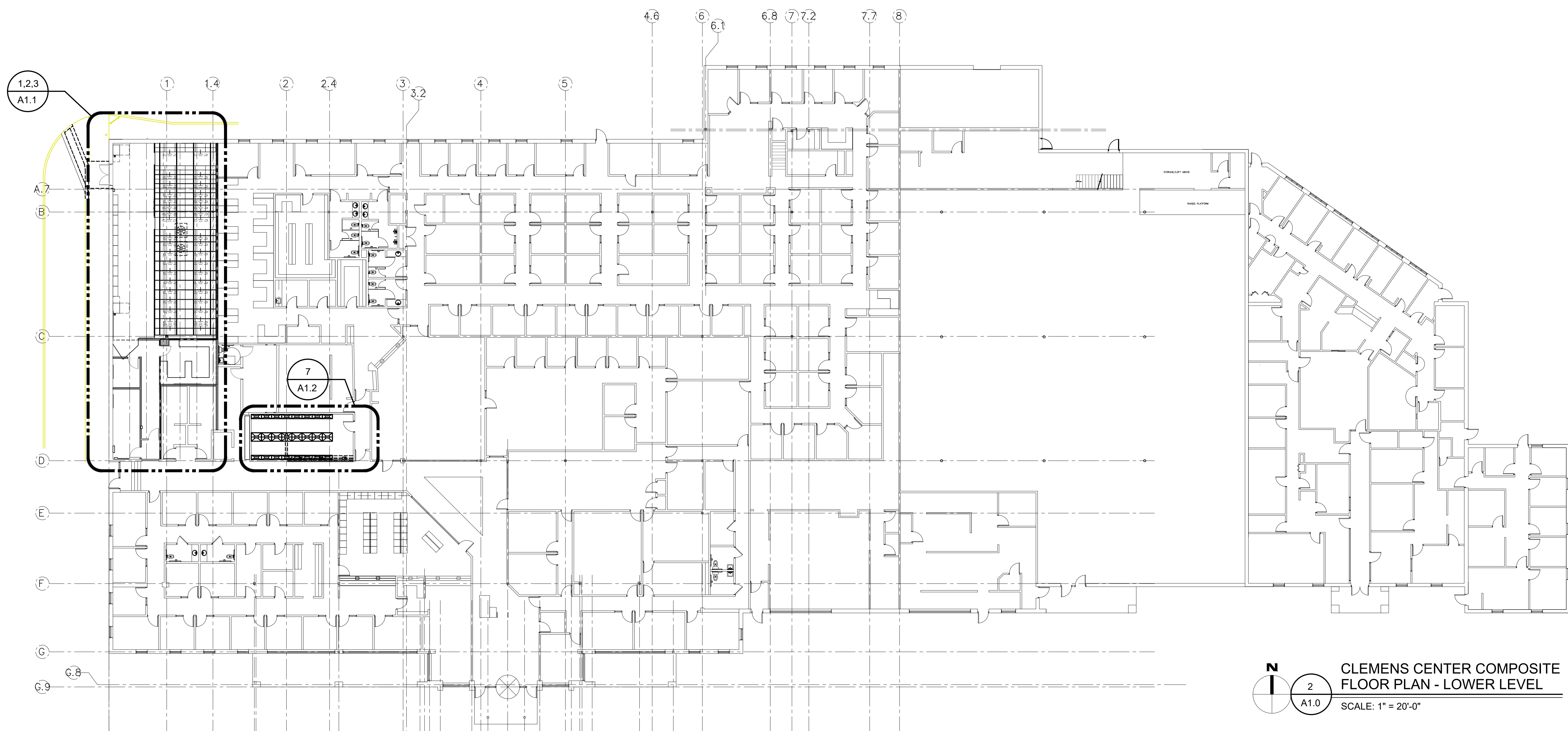
ENGINEER SEAL:

ARCHITECT SEAL:

 LOCATION MAP - CENTRAL CAMPUS







**CLEMENS CENTER COMPOSITE  
FLOOR PLAN - LOWER LEVEL**  
SCALE: 1" = 20'-0"

**BUILDING CODE SUMMARY**

**PROJECT:** Macomb County Clerk Storage Renovation - Clemens Center, Mt. Clemens, MI  
**ADDRESS:** Clemens Center, Mt. Clemens, Michigan  
**PROPOSED USE:** Existing Facility - Mixed Use B and S-1  
**REFERENCE CODES:**  
Renovation: Michigan Rehabilitation Code, 2015 Edition  
Building: Michigan Building Code, 2015 edition  
Mechanical: Michigan Mechanical Code, 2021 edition  
Plumbing: Michigan Plumbing Code, 2021 edition  
Electrical: Michigan Electrical Code, (2023 NEC with Part 8 technical amendments)  
Energy: Michigan Energy Code, 2015 Edition

**BUILDING DATA**

Use Group ( ) Assembly ( ) Institutional ( ) Business ( ) Mercantile ( ) Educational ( ) Residential ( ) Factory-Industrial - Low Hazard ( ) Storage - Low Hazard (S-2) ( ) Factory-Industrial - Moderate Hazard (X) Storage - Mod. Hazard (S-1) ( ) High Hazard ( ) Utility, Miscellaneous  
**CONSTRUCTION TYPE**  
( ) Type 1A - Protected ( ) Type 3 - Protected ( ) Type 1B - Protected ( ) Type 3 - Unprotected ( ) Type 2A - Protected ( ) Type 4 - Heavy Timber (X) Type 2B - Unprotected ( ) Type 5 - Protected ( ) Type 5 - Unprotected  
(X) Mixed Construction Type - Non-Separated (using most restrictive of B and S-1)

Sprinklered? ( ) Required (X) Provided

Building Height: Permitted: 4 stories (504.4), 75 feet (with sprinkler system - 504.2) TYPE 2B  
Actual: 1 Story (Less than 17 feet)

Mezzanine: (X) Yes ( ) No

High Rise: ( ) Yes (X) No

GROSS BUILDING AREA:  
Grade Level 61,030 S.F.  
Basement NA  
2<sup>nd</sup> Level NA  
Work Area: 2,925 S.F.  
Mezzanine Level: NA  
Total Gross Area 61,030 S.F.  
Perimeter Modifications Applied (X) Yes ( ) No

At - % of Allowable tabular area (Table 506.2) SM (Sprinklered Single Story = 52,500 S.F. - S-1)

If - % Increase for open perimeter (506.2) .75%

If =  $[FIP-0.25]W/30$  Note: W/30 Limited to 1.0 (FIP = 1.0 and W/30 = 1.0)

NS = 17,750 SF (S-1)

Aa =  $(61 + [NS \times 1])$

Aa =  $(52,500 \text{ s.f.} + [17,750 \text{ s.f.} \times .75])$

Aa = 65,825 s.f. = Allowable Building Area

TOTAL BLDG AREA = 61,030 S.F. < ALLOWABLE AREA 65,825 S.F. (S-1)

**Hourly Rating (1) Detail # & Sheet # %Wall Opening # Design No. for Rated Assemblies**

Party/Firewalls:	Hourly Rating (1)	Detail # & Sheet #	%Wall Opening #	Design No. for Rated Assemblies
Exterior Bearing Walls (Fire Separation Distance > 30 Feet)				
North	0			
East	0			
West	0			
South	0			
Exterior Non-Bearing (Fire Separation Distance > 30 Feet)				
Walls				
North	0			
East	0			
West	0			
South	0			
Interior Walls				
Bearing	0			
Non-Bearing	0			
Tenant Separation	N/A			
Fire Separation Assemblies				
Exit Enclosures	2			
Ceiling-Floors Assembly	0			
Beams	0			
Columns	0			
Ceiling-Roof Assembly	0			
Vertical Shafts	2			
Mixed Occupancy Separation				
Tenant Separation	N/A			
Exit Access Corridors (1020.1) 0 (B and S-1 are the same)				

**LIFE SAFETY SYSTEMS:**

Emergency Lighting & Exit Signs	(X) Required	(X) Provided
Fire Alarms	(X) Required	(X) Provided
Smoke Detectors Systems	(X) Required	(X) Provided
Panic Hardware	(X) Required	(X) Provided
Fire Suppression System	(X) Required	(X) Provided
Standpipe System	( ) Required	( ) Provided

**OCCUPANT LOAD:** (Most Restrictive of B and S-1)

Business = 1 person/100 Gross Square Feet

61,030 Gross S.F./100 = 611 Persons Total

306 Female  
306 Male

2021 Michigan Plumbing Code

1 Water Closet/ 25 Males for the first 5 WC then 1 WC for each 50 males thereafter = (8) Water Closets Required

Existing: 7 WC Minimum, 3 Urinals Minimum

1 Water Closet/ 25 Females for the first 5 WC then 1 WC for each 50 Females thereafter = (9) Water Closets Required

Existing: 7 WC Minimum

1 Lav/per 40 Males for the first 80 males then 1 per each 80 males thereafter = (4) Lavs Required

Existing: 6 Lavs Minimum

1 Lav/per 40 Females for the first 80 females then 1 per each 80 females thereafter = (4) Lavs Required

Existing: 6 Lavs Minimum

1 Drinking Fountain/1000 Persons/611 Persons = (1) Drinking Fountain Required

Existing: 1 Minimum

1 Service Sink Required

Existing: 1 Minimum

**EXIT REQUIREMENTS:** (B and S are the same unless noted otherwise):

Dead end limit-maximum condition (1020.4 w/Exception #2) Allowed 50ft. Actual 0 in Work area

Travel distance to exit-maximum condition (table 1017.2 w/Sprinkler) Allowed 250ft. Actual TBD in Work area

Common Path of Travel 1006.3.2 (2) (with Sprinkler System) Allowed 100 ft. Actual TBD in Work area

(Note b allows 100 feet)

Number exits (per story):

Required (Table 1006.3.1) Occupant Load first floor 61,030s.f./100 S.F./Person (Business) = 611 Minimum four

(4) Actual 14

**DESIGN LOADS:** (See Structural Drawings)

Roof live load: 20 PSF

Wind: 90 MPH, 23 PSF

Floor: 100PSF + 1<sup>st</sup> Floor corridors, 1000# Concentrated

Snow: 30 PSF

Seismic: TBD

Lateral design: 21 PSF

**Soil Bearing Capacities:**

Assumed Net Soils Bearing Capacity = 2000 PSF

Special approval by Local Jurisdiction, describe below: N/A



### ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS
				NORTH	SOUTH	WEST	EAST	MAT'L	HGT.	
A100	F+O STORAGE	EP	4RB	GB-PT	ETR-PT	GB-PT	GB-PT	ACT-1	9'-0"	1,2,3,4,6,7
A101	OFFICE	CPT	4RB	GB-PT	ETR-PT	ETR-PT	GB-PT	ACT-1	9'-0"	1,2,3,4,6,7
A102	CORRIDOR	LVT	4RB	GB-PT	ETR-PT	ETR-PT	GB-PT	ACT-1	9'-0"	1,2,3,4,6,7
A103	SECURED STORAGE	LVT	4RB	GB-PT	ETR-PT	GB-PT	ETR-PT	ACT-1	9'-0"	1,2,3,4,6,7
A104	HIGH-DENSITY STORAGE	EP/LVT	4RB	ETR-PT	GB-PT	ETR-PT	ETR-PT	--	--	1,2,3,4,5,6,7
A105	NEW CLERK STORAGE	LVT	4RB	ETR-PT	GB-PT	ETR-PT	ETR-PT	--	9'-0"	1,2,4

### DOOR SCHEDULE

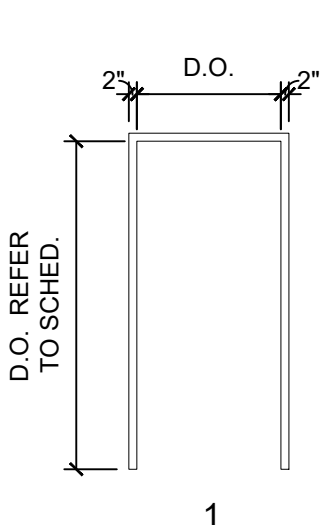
NO.	WIDTH	HEIGHT	DOOR		FRAME		DETAILS				REMARKS				
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB		SILL	THRESHOLD	U.L. LABEL	HARDWARE SET
<b>FIRST FLOOR</b>															
A100	3'-0"	7'-0"	F	WD	STN	1	HM	PT	H2	J2	-	-	-	1	3
A101	3'-0"	7'-0"	N	WD	STN	1	HM	PT	H2	J2	-	-	-	3	1,3
A102	3'-0"	7'-0"	N	WD	STN	1	HM	PT	H2	J2	-	-	20MIN.	1	1,3
A103	3'-0"	7'-0"	F	WD	STN	1	HM	PT	H2	J2	-	-	-	2	3
A104	3'-0"	7'-0"	F	HM	PT	2	HM	PT	H1	J1	-	AL	-	4	2,3

### DOOR SCHEDULE REMARKS

- ALL INTERIOR GLASS TO BE 1/4" LAMINATED GLASS, U.N.O
- ALTERNATE NO. 2: PROVIDE FRP DOORS AND ALUMINUM FRAME IN LIEU OF HOLLOW METAL. REFER TO SPECS.
- PAINT ALL HOLLOW METAL DOOR AND FRAMES EPOXY PAINT.

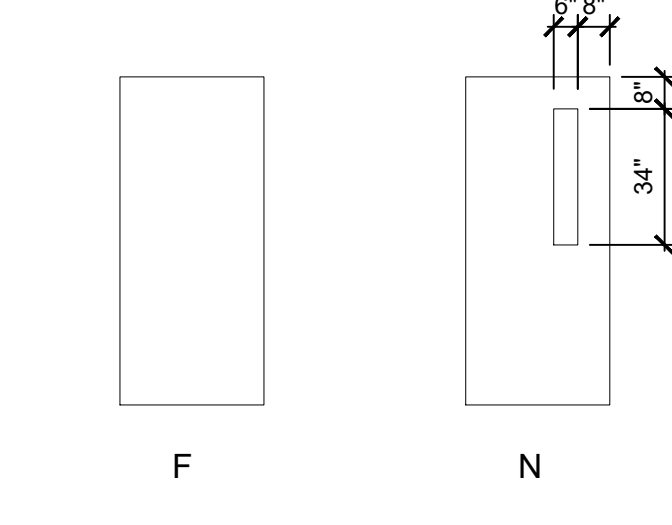
### FRAME TYPES

SCALE: 1/4" = 1'-0"



### DOOR ELEVATIONS

SCALE: 1/4" = 1'-0"



### ABBREVIATIONS:

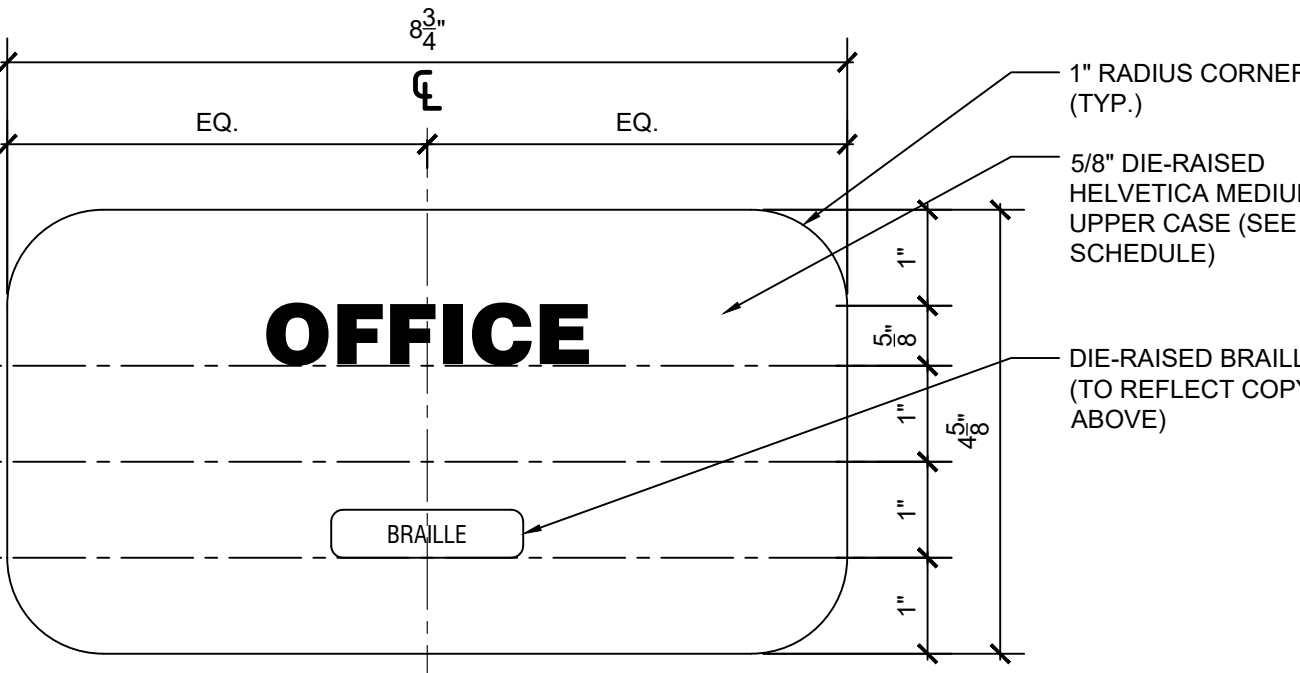
- ACT ACOUSTICAL CEILING TILE IN METAL GRID
- CPT CARPET - SEE SPECIFICATIONS
- ETR EXISTING TO REMAIN
- GB GYPSUM BOARD (WALLS ONLY TO BE HI-IMPACT GYPSUM BOARD)
- LVT LUXURY VINYL TILE
- RP 4" RESILIENT BASE
- EP EPOXY FLOORING

### ROOM FINISH NOTES

- PAINT ALL EXISTING WALLS IN NEW WORK AREA.
- ALL WALL BOARD TO BE HI-IMPACT GYPSUM BOARD.
- ALL EXISTING AND NEW GYPSUM BOARD WALL CORNERS TO HAVE STAINLESS STEEL CORNER GUARDS. REFER TO SPECS.
- RUN LVT THE LENGTH OF THE ROOM AT 1/3 OFFSET UNLESS OTHERWISE NOTED.
- EXPOSED CEILING - PAINT ALL EXPOSED STEEL JOIST, COLUMNS, PIPING, CONDUITS, DUCTWORK, ETC.
- PROVIDE TRANSITION AT FLOOR BETWEEN DISSIMILAR MATERIALS. REFER TO SPECS.
- PROVIDE STAINLESS STEEL CORNER GUARDS AT ALL NEW AND EXISTING GYPSUM BOARD WALLS. REFER TO SPECIFICATIONS.

### SIGNAGE SCHEDULE

NO.	ROOM NAME	QTY	TYPE	MOUNTING	TEXT
A100	F+O STORAGE	1	A	1	LINE 1: STORAGE
A101	OFFICE	1	A	1	LINE 1: OFFICE
A102	CORRIDOR	-	-	-	-
A103	SECURED STORAGE	1	A	1	LINE 1: STORAGE LINE 1: COUNTY CLERK
A105	ALCOVE	1	A	1	LINE 2: STORAGE FACILITY



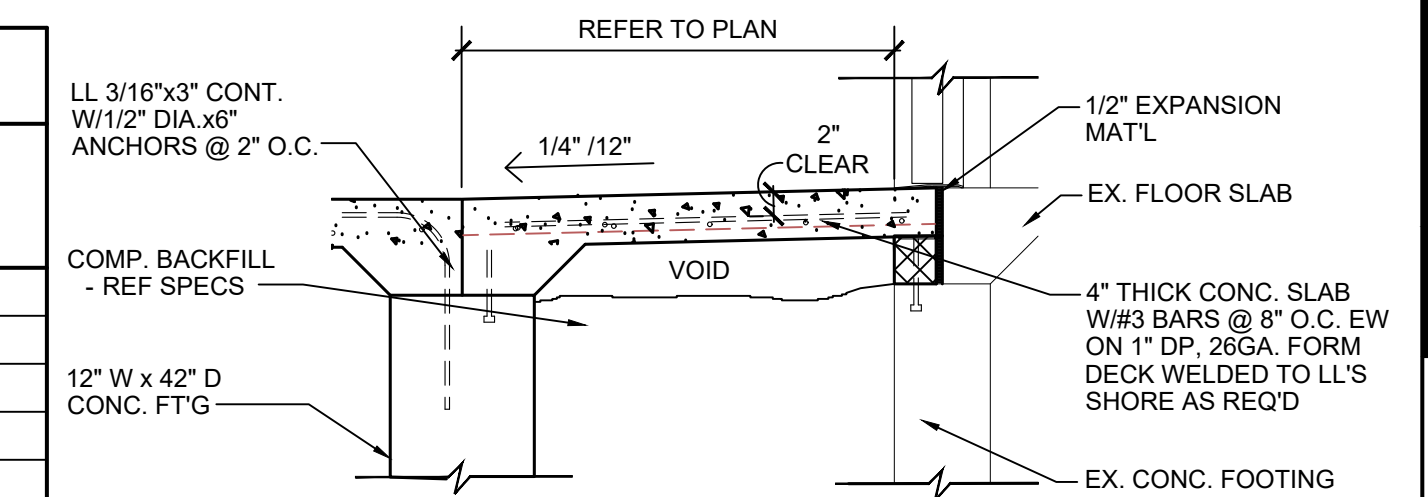
### SIGNAGE DETAIL

SCALE: 6" = 1'-0"

### SIGNAGE MOUNTING

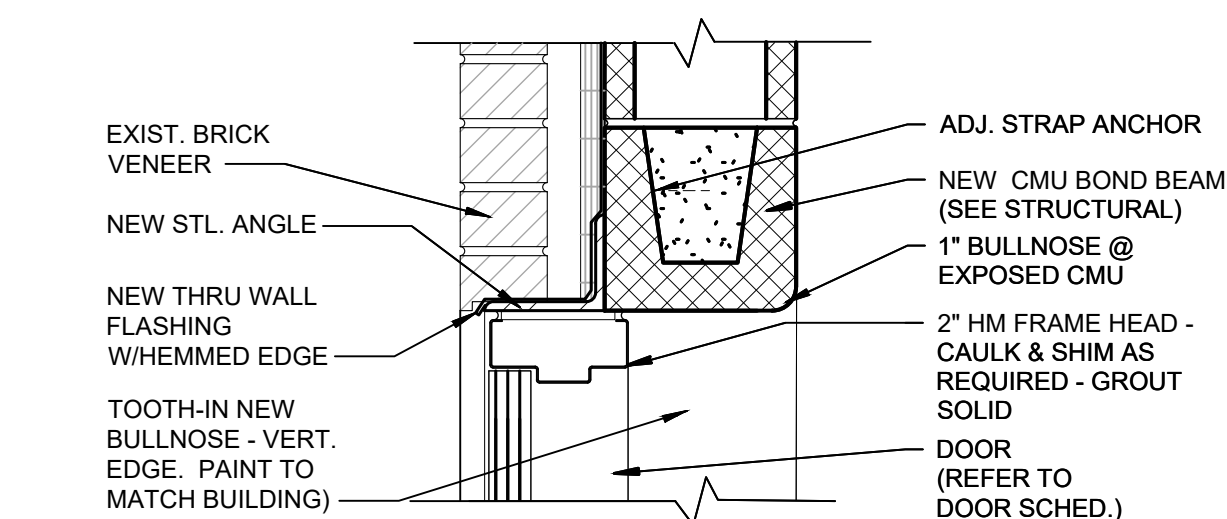
SCALE: 1/4" = 1'-0"

NOTE: SIGN MOUNTING TYPICAL FOR OPPOSITE DOOR CONFIGURATION



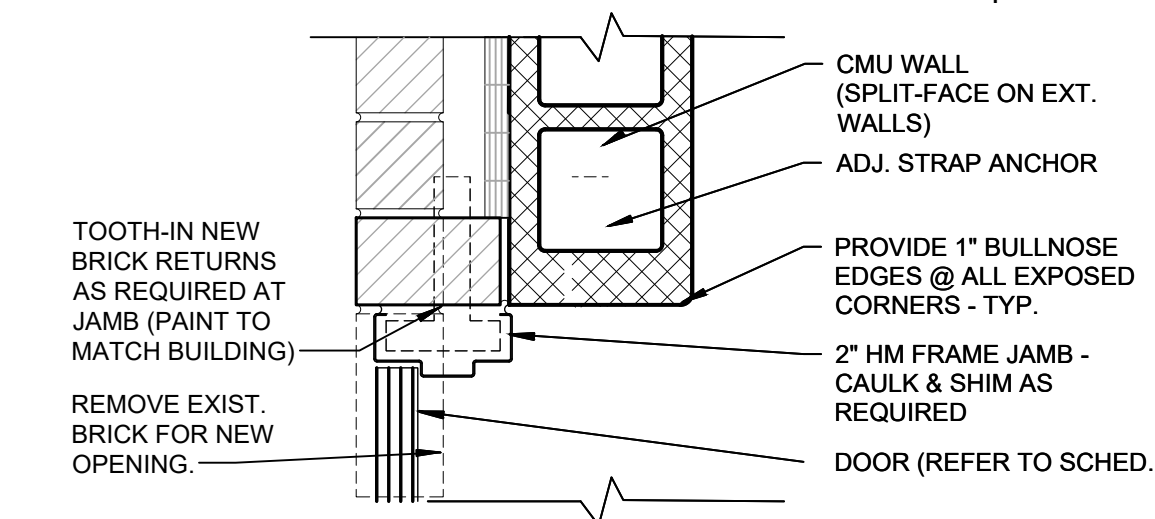
### SECTION DETAIL - SUPPORTED SLAB

SCALE: 3/4" = 1'-0"



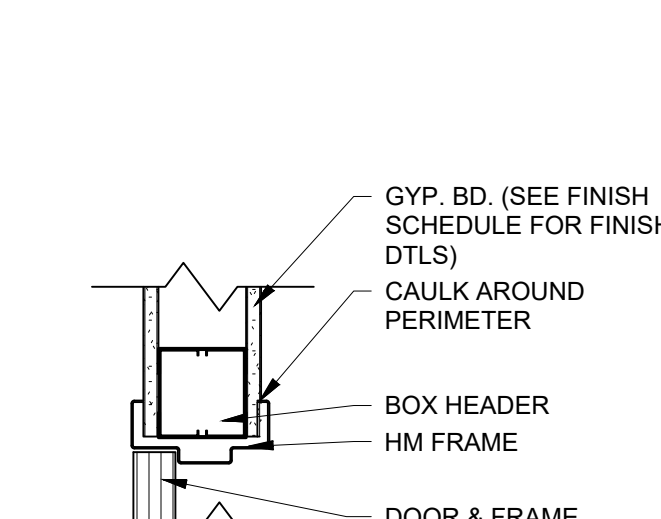
### HEAD DETAIL

SCALE: 1/4" = 1'-0"



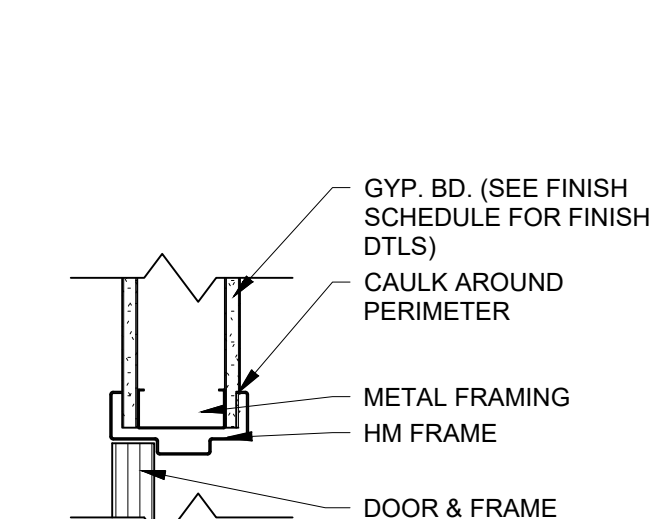
### JAMB DETAIL

SCALE: 1 1/2" = 1'-0"



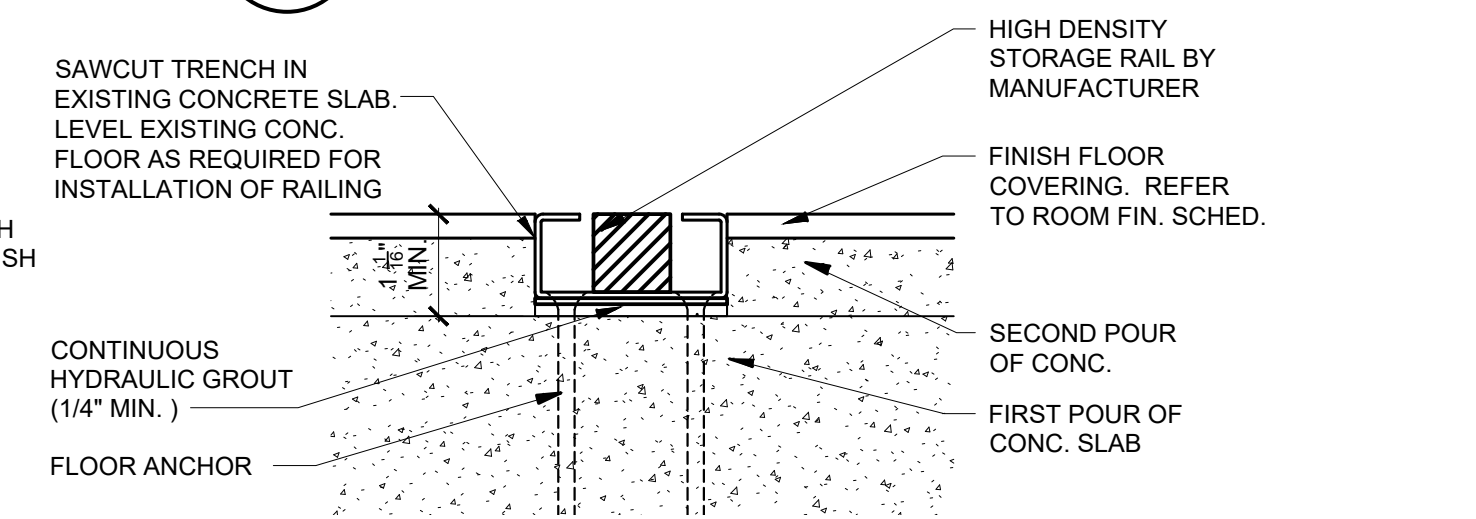
### HEAD DETAIL

SCALE: 1/4" = 1'-0"



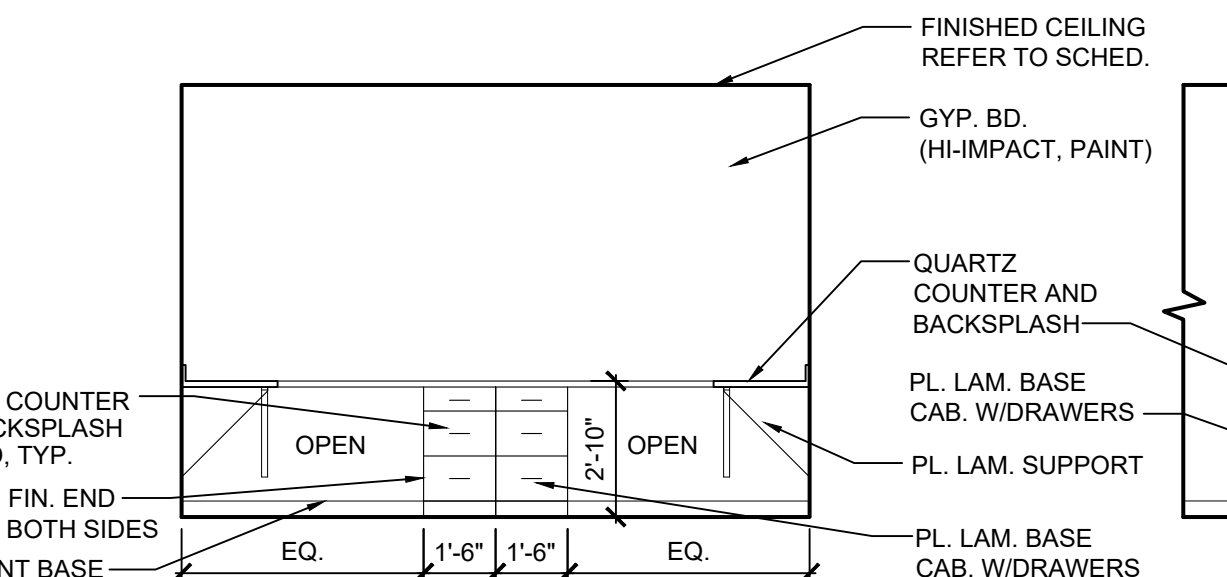
### JAMB DETAIL

SCALE: 1 1/2" = 1'-0"



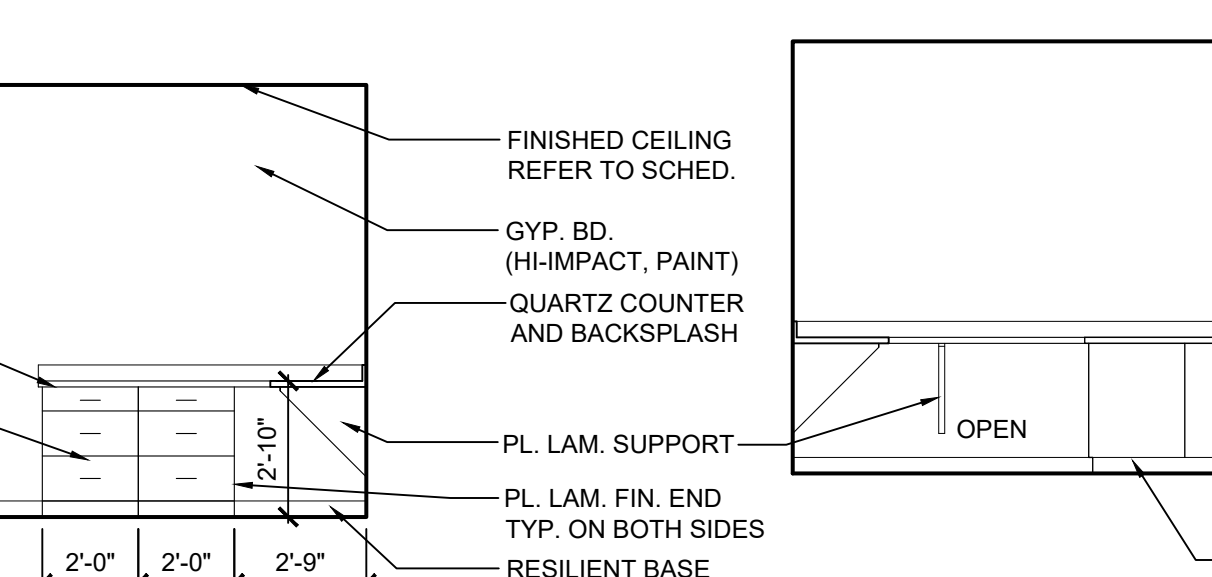
### SECTION DETAIL - RECESSED RAIL SYSTEM

SCALE: 6" = 1'-0"



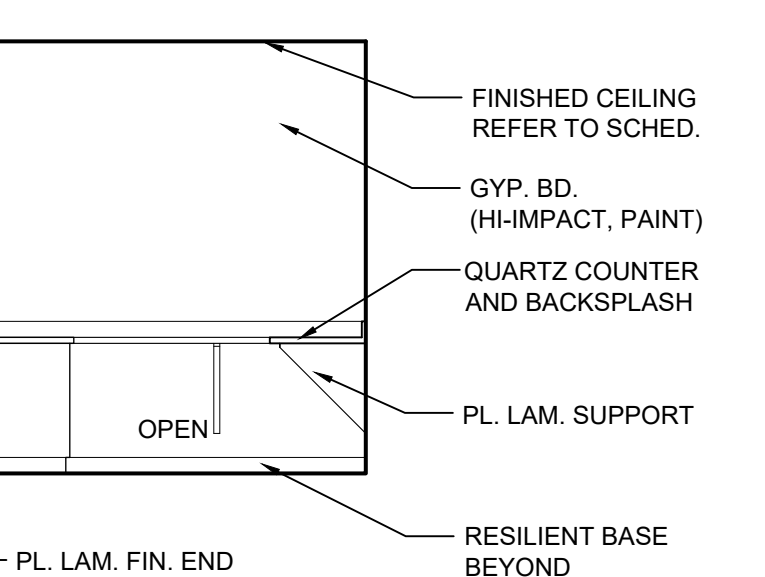
### INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"



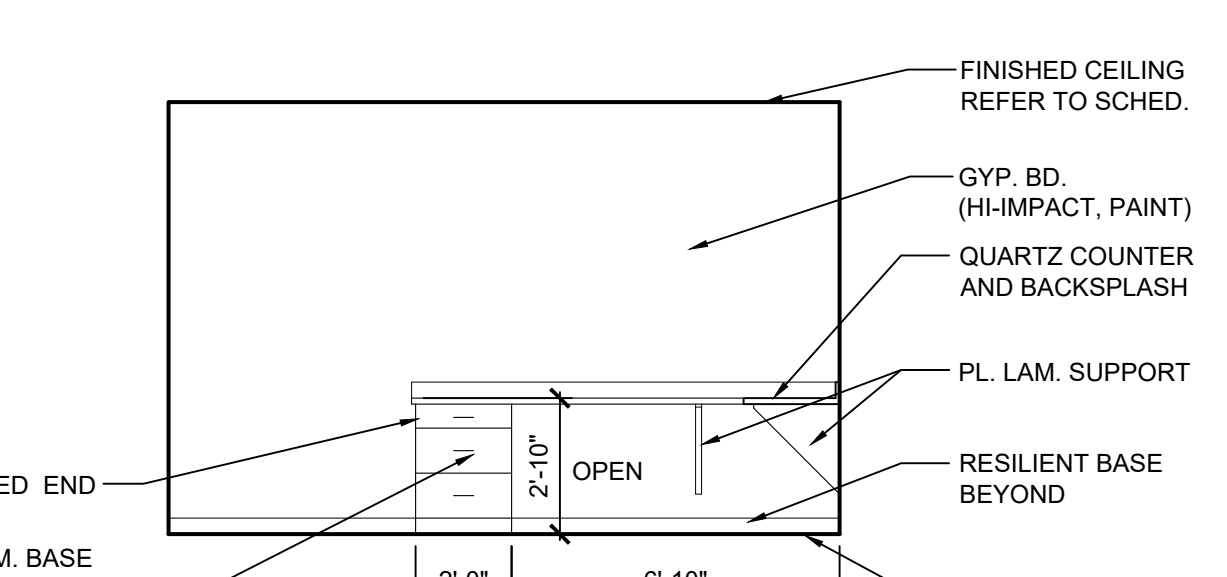
### INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"



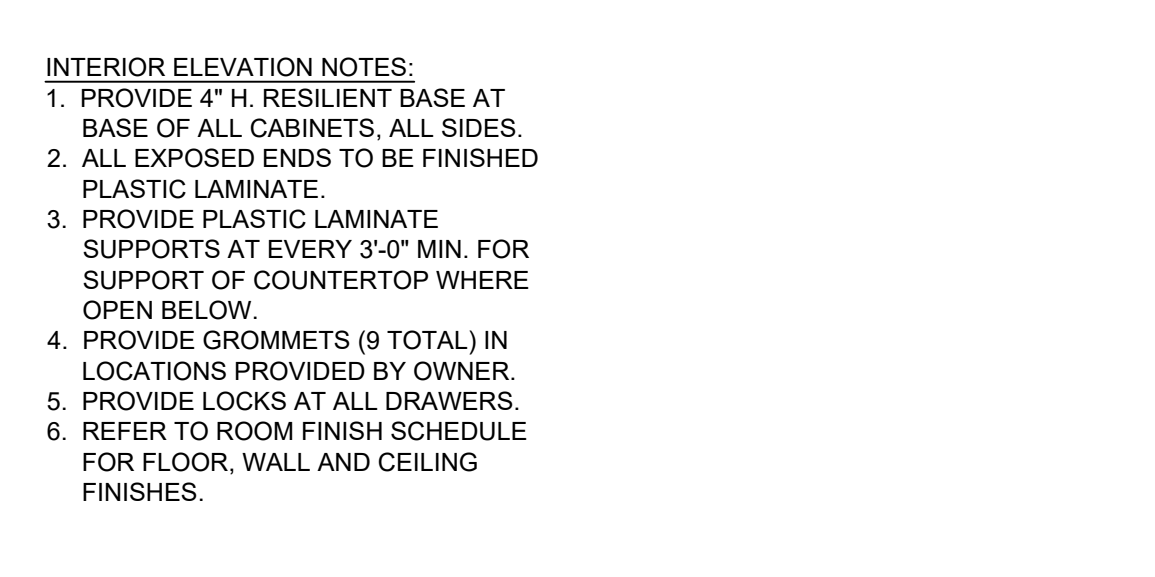
### INTERIOR ELEVATION

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



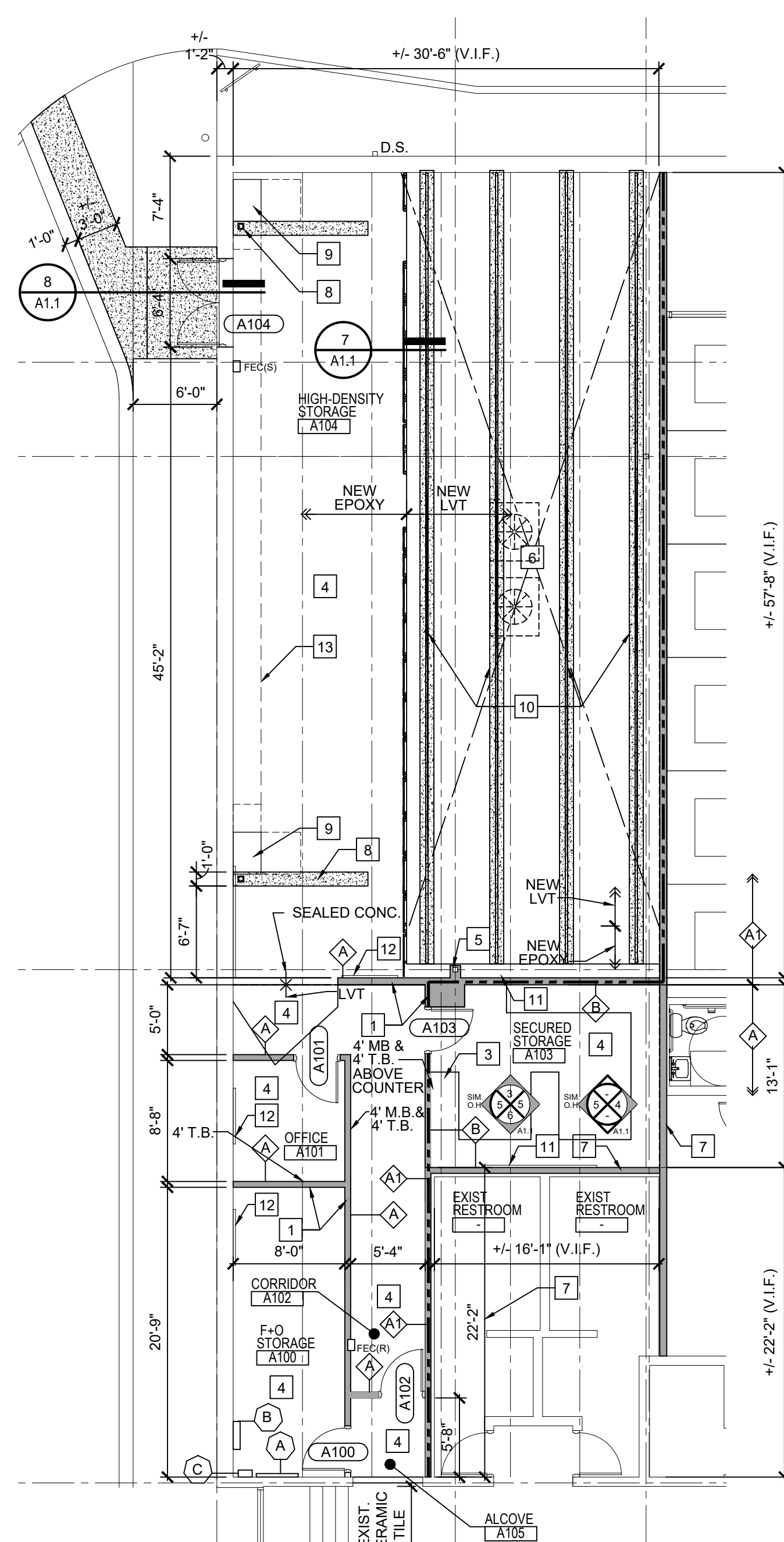
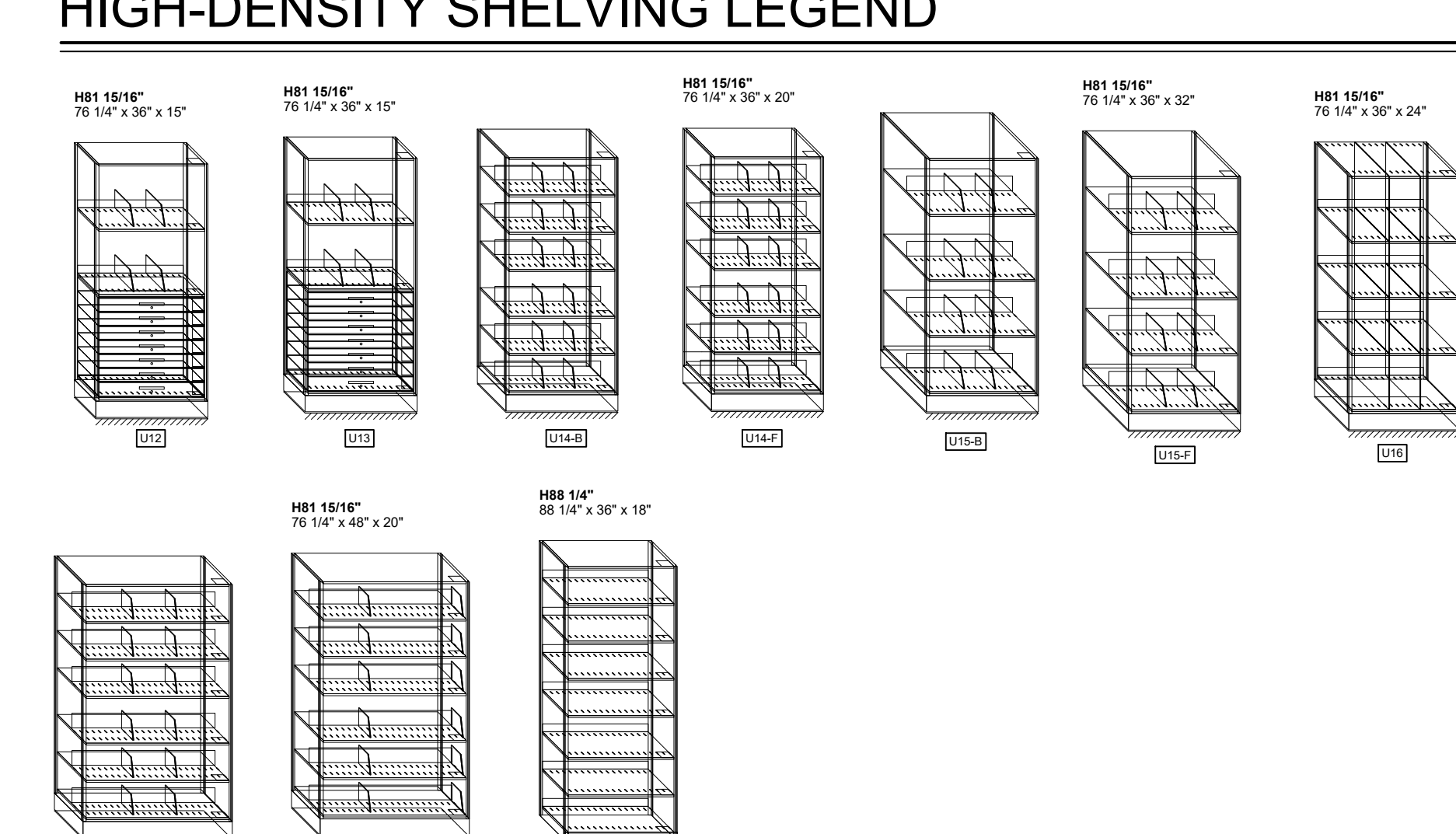
### INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"



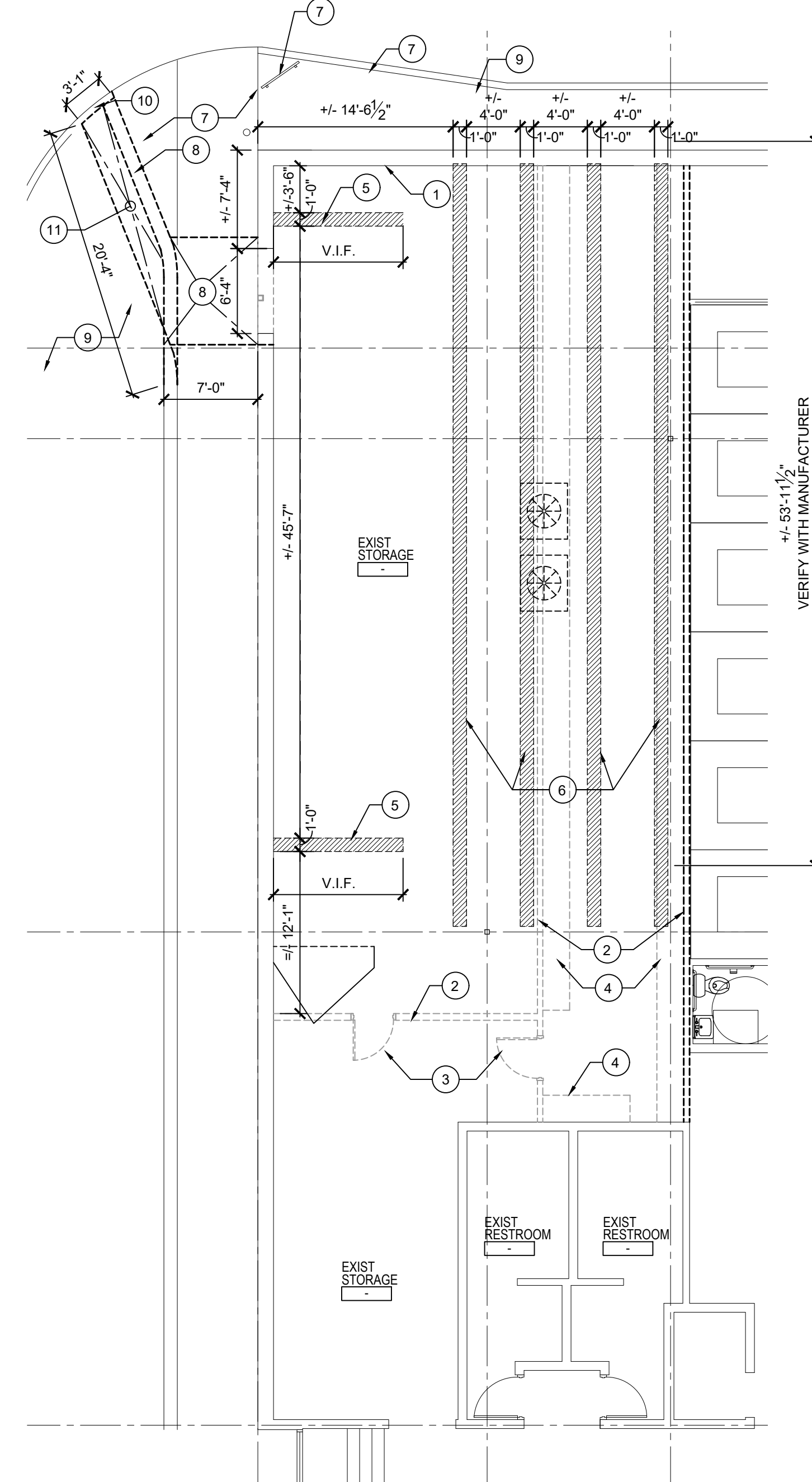
**INTERIOR ELEVATION NOTES:**  
 1. PROVIDE 4" H. RESILIENT BASE AT BASE OF ALL CABINETS, ALL SIDES.  
 2. ALL EXPOSED ENDS TO BE FINISHED PLASTIC LAMINATE.  
 3. PROVIDE PLASTIC LAMINATE SUPPORTS AT EVERY 3'-0" MIN. FOR SUPPORT OF COUNTERTOP WHERE OPEN BELOW.  
 4. PROVIDE GROMMETS (9 TOTAL) IN LOCATIONS PROVIDED BY OWNER.  
 5. PROVIDE LOCKS AT ALL DRAWERS.  
 6. REFER TO ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.

### HIGH-DENSITY SHELVING LEGEND



**CLEMENS CENTER HIGH-DENSITY STORAGE PLAN**  
 SCALE: 1/8" = 1'-0"

**CLEMENS CENTER NEW WORK FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 NOTE: FEC = FIRE EXTINGUISHER CABINET, R = RECESSED, S = SURFACE MTD.



**CLEMENS CENTER DEMOLITION FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

### DEMOLITION KEYNOTES

- REMOVE PORTION OF EXISTING WALL FOR NEW DOOR OPENING.
- REMOVE WALL (WOOD STUDS AND PLYWOOD) IN ITS ENTIRETY.
- REMOVE EXISTING DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
- REMOVE ALL EXISTING SHELVING AND RETURN TO OWNER. OWNER TO REMOVE ALL FILES PRIOR TO DEMOLITION.
- SAWCUT EXISTING CONCRETE SLAB FLOOR AS REQUIRED FOR NEW FLOOR DRAINS AND SANITARY LINES. REFER TO ELECT. MECH. DWGS. COORDINATE WITH TRADES FOR EXACT LOCATIONS.
- SAWCUT 12" W X 2" D TRENCH FOR NEW HIGH-DENSITY RECESSED RAIL SYSTEM. REFER TO MANUFACTURER'S SPECIFICATIONS AND DETAIL 7/A1.1.
- EXISTING BUSH, GRASS, SIGNAGE AND CONCRETE WALK TO REMAIN.
- EXISTING BRICK PAVEMENT BORDER TO BE REMOVED AND REINSTALLS AS SHOWN ON DRAWINGS. REMOVE EXISTING CONCRETE WALK AS REQUIRED FOR NEW SUPPORTED SLAB AT NEW DOOR.
- EXISTING GRASS AREA TO REMAIN. RESTORE AND RESEED AS REQUIRED.
- REMOVE EXISTING CURB AS SHOWN ON DRAWINGS.
- REMOVE EXISTING GRASS FOR CONCRETE WALKWAY.

### NEW WORK FLOOR PLAN KEYNOTES

- NEW WALL PARTITION - REFER TO LEGEND.
- NEW DOOR, FRAME AND HARDWARE. REFER TO DOOR SCHEDULE. TOOTH-IN NEW BULLNOSE EDGE CMU (PAINT) AT BOTH JAMBS. PROVIDE NEW MASONRY LINTEL WITH 8" MIN. BEARING.
- NEW FIN. QUARTZ COUNTER, BACKSPLASH AND BASE CABINETS. REFER TO INTERIOR ELEVATIONS.
- NEW FLOOR, WALL AND CEILING FINISHES. REFER TO ROOM FINISH SCHEDULE.
- NEW GYPSUM BOARD ENCLOSURE AT EXISTING COLUMN.
- HIGH-DENSITY STORAGE SYSTEM WITH SHELVING, LED LIGHTING, ETC. RAIL SYSTEM TO BE RECESSED INTO EXISTING CONCRETE FLOOR. REFER TO DEMOLITION PLAN. LEVEL FLOOR AS REQUIRED. REFER TO SPECIFICATIONS.
- PROVIDE NEW PARTITION ABOVE EXISTING WALL (TIGHT TO THE DECK).
- PATCH EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FLOOR DRAINS/SANITARY LINE. REFER TO MECH. DWGS. COORDINATE WITH TRADES FOR EXACT LOCATION OF EXISTING SANITARY LINE.
- NEW AIR CONDITIONING UNIT. REFER TO MECH/ELECT. DWGS.
- INFILL NEW TRENCH FOR NEW HIGH-DENSITY STORAGE RECESSED RAIL SYSTEM PER THE MANUFACTURER'S SPECIFICATIONS.
- NEW 8"x4" MARKERBOARD. REFER TO SPECS.
- NEW 4"x4" TACKBOARD. REFER TO SPECS.
- NEW OPEN SHELVING UNITS. REFER TO LEGEND.

### ACCESSORIES SCHEDULE

- A MOP + BROOM HOLDER. REFER TO SPECIFICATIONS.
- B STAINLESS STEEL SHELF, 24" L. REFER TO SPECIFICATIONS.
- C PAPER TOWEL DISPENSER. REFER TO SPECIFICATIONS.

### WALL TYPES

- A NOMINAL 5" ACTUAL 4 7/8" 5/8" TYPE 'X' GYPSUM ON BOTH SIDES OF 3 5/8" 20 GA. METAL STUDS AT 16" O.C. MAX W/ SOUND ATTENUATION BLANKETS IN ALL VOIDS FULL HEIGHT. RUN PARTITION UP TO ROOF DECK.
- B NOMINAL 5" ACTUAL 4 7/8" (2) 5/8" TYPE 'X' GYPSUM ON BOTH SIDES OF 3 5/8" AP1522 GA. METAL STUDS AT 16" O.C. MAX W/ SOUND ATTENUATION BLANKETS IN ALL VOIDS FULL HEIGHT. RUN PARTITION UP TO ROOF DECK. 2 HR. RATED ASSEMBLY.



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**MACOMB COUNTY BOARD OF COMMISSIONERS**  
**CLEMENS CENTER COUNTY CLERK STORAGE RENOVATION**

MACOMB COUNTY  
 CLEMENS CENTER

ENLARGED LOWER LEVEL  
 FLOOR PLANS - DEMOLITION  
 AND NEW WORK, SCHEDULES  
 AND INTERIOR ELEVATIONS

PRELIMINARY   
 DESIGN DEVELOPMENT   
 CONSTRUCTION   
 FINAL RECORD

DRAWN BY: KAN  
 CHECKED BY: RS

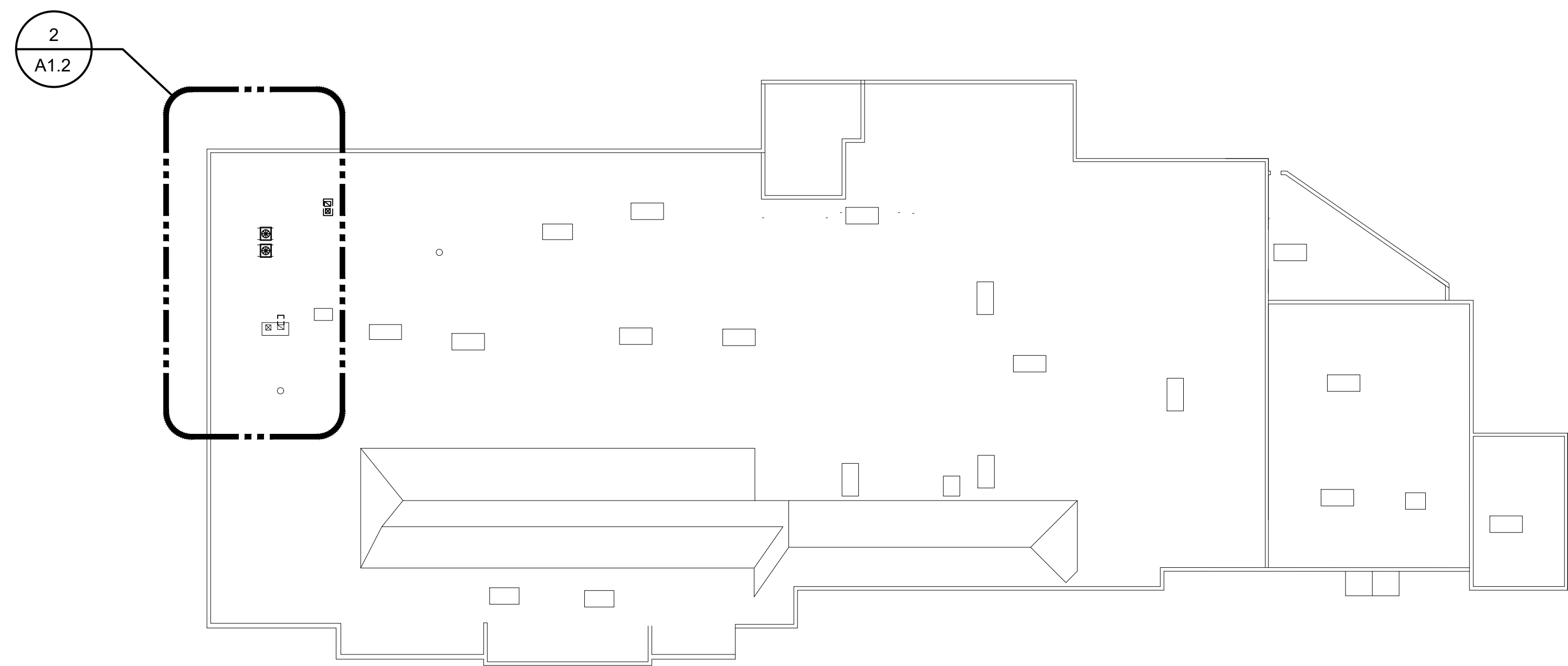
REVISIONS  
 ISSUED FOR BIDS: JULY 25, 2024

DATE: JULY 25, 2024  
 SHEET NO.

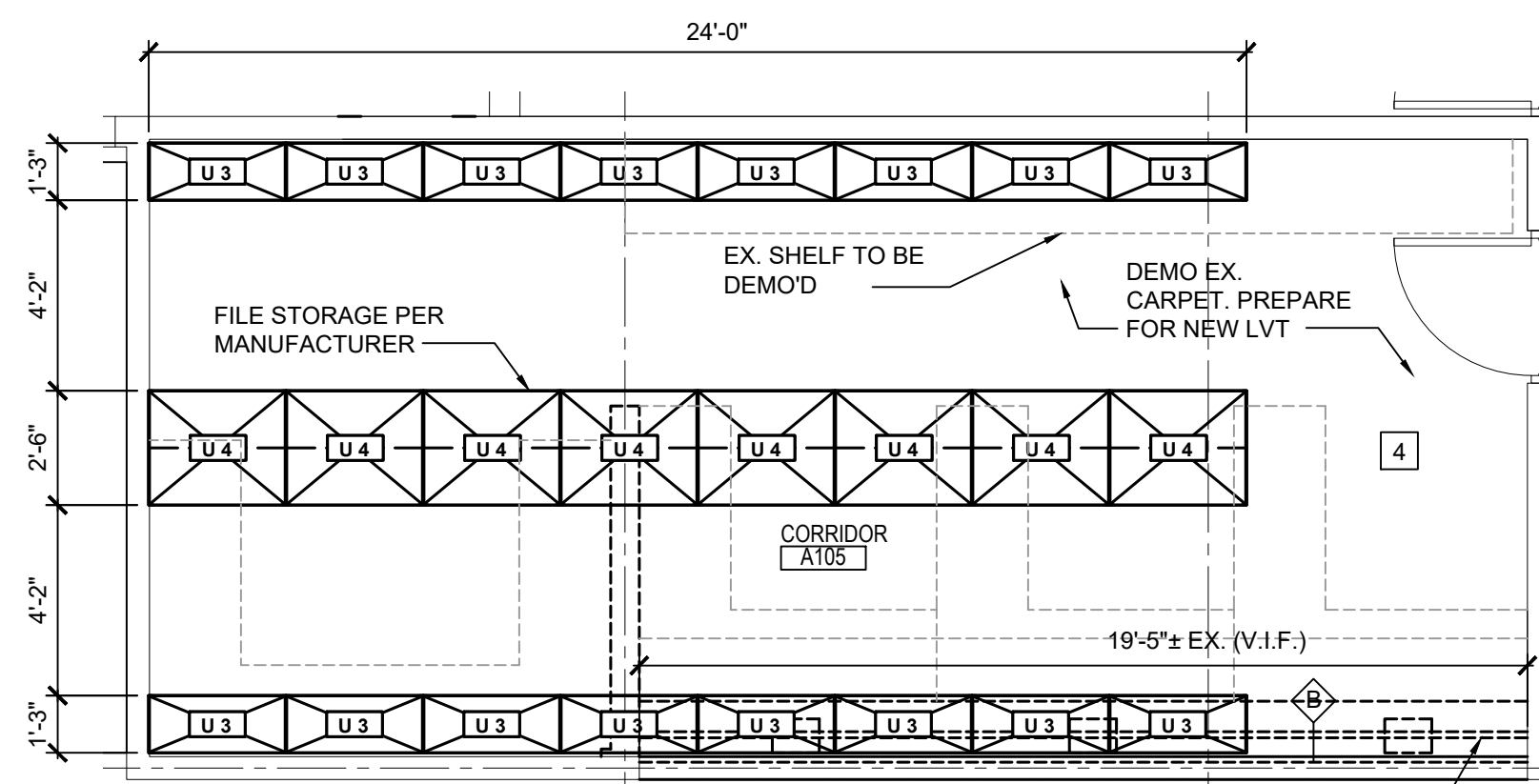
**A1.1**

JOB NO. 231987

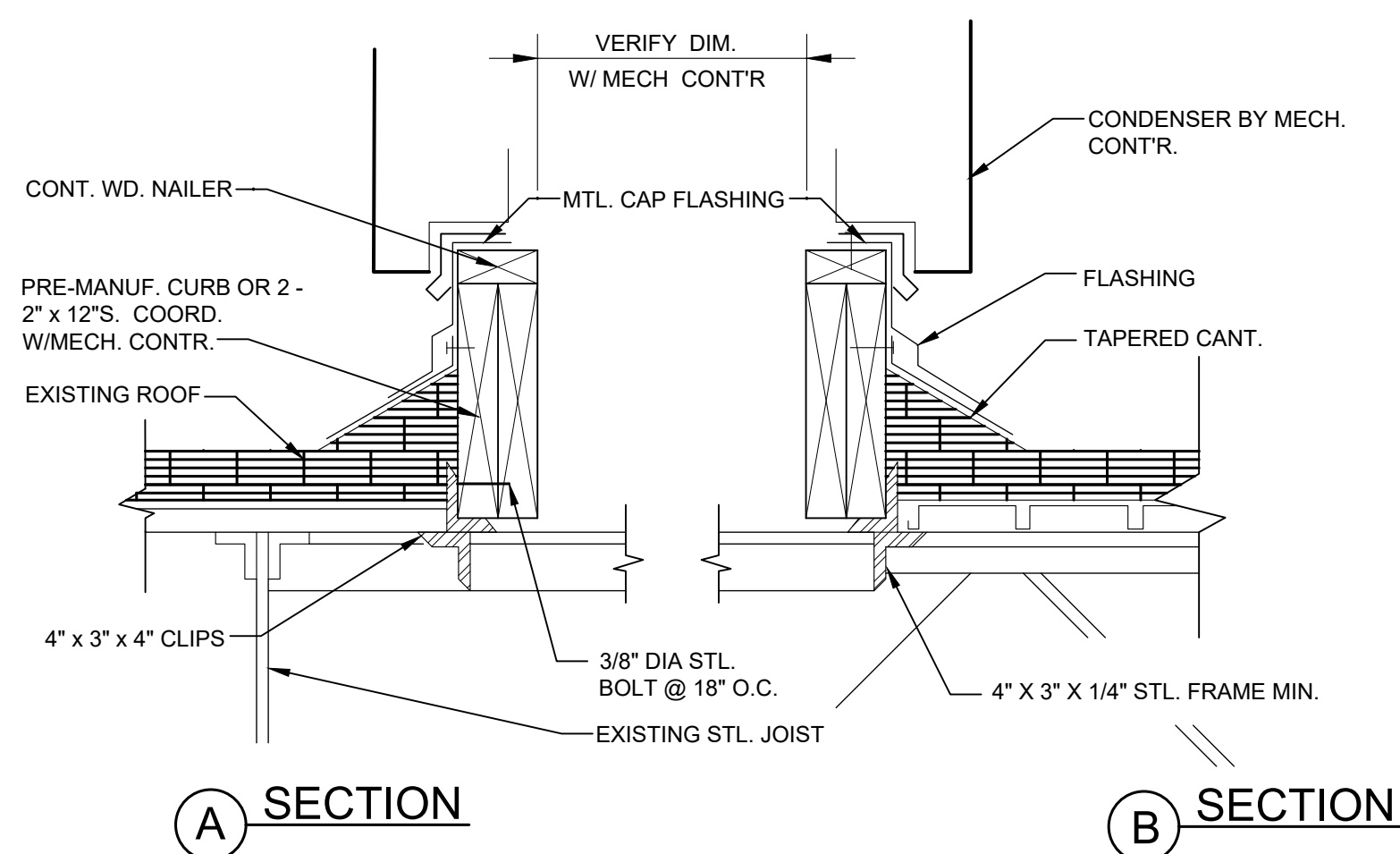




**2**  
A1.2  
**CLEMENS CENTER  
COMPOSITE ROOF PLAN**  
SCALE: 1/32" = 1'-0"

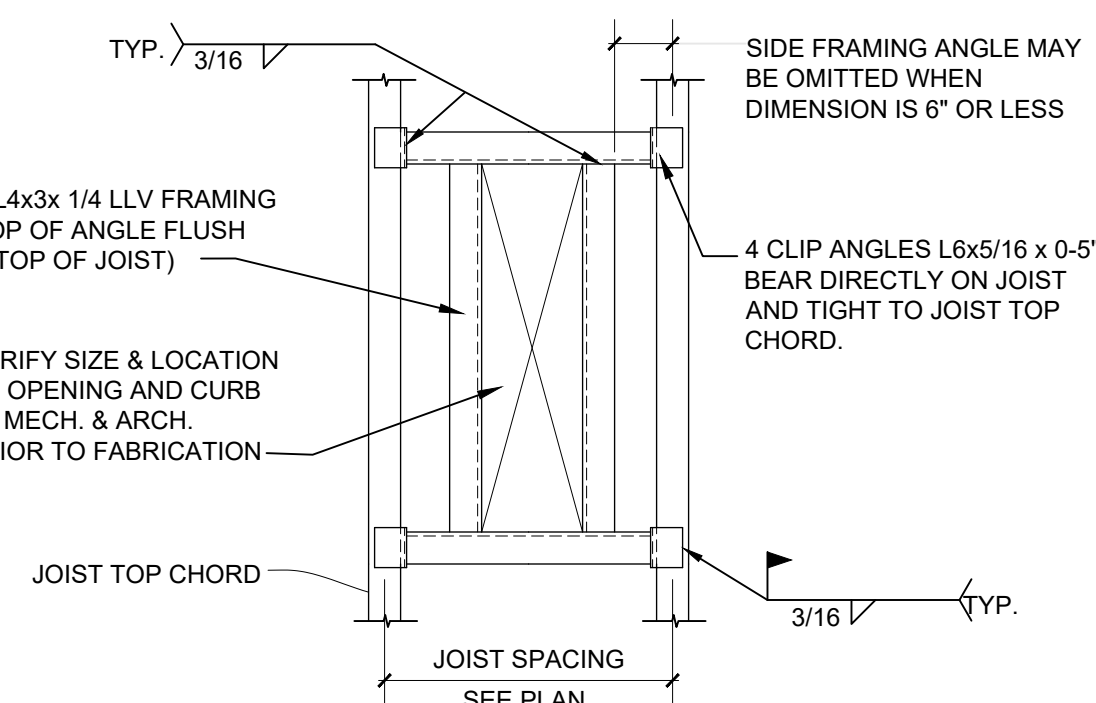


**7**  
A1.2  
**CLEMENS CENTER  
ENLARGED STATE OF MICHIGAN STORAGE PLAN**  
SCALE: 1/4" = 1'-0"

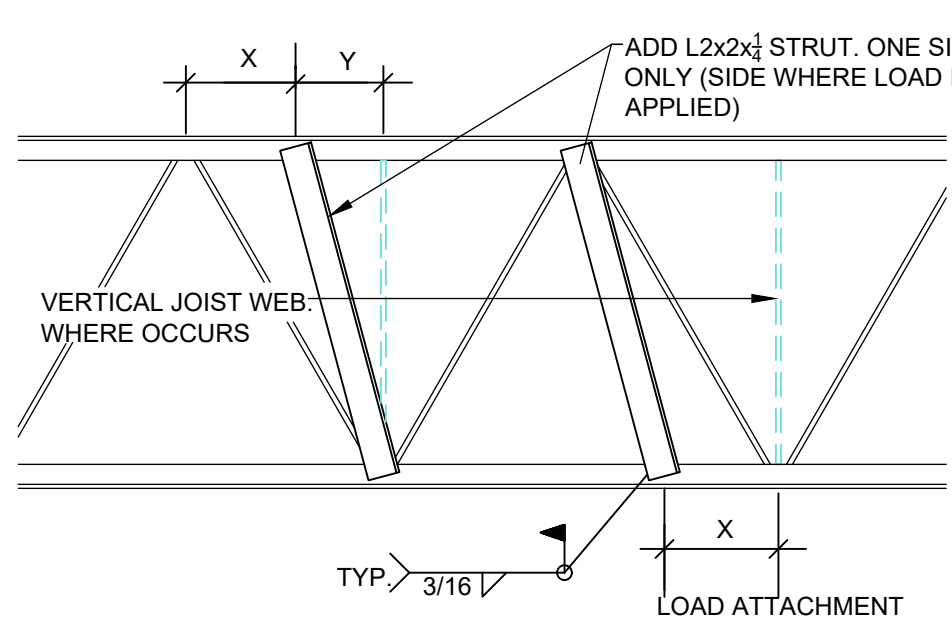


**A** SECTION  
**B** SECTION

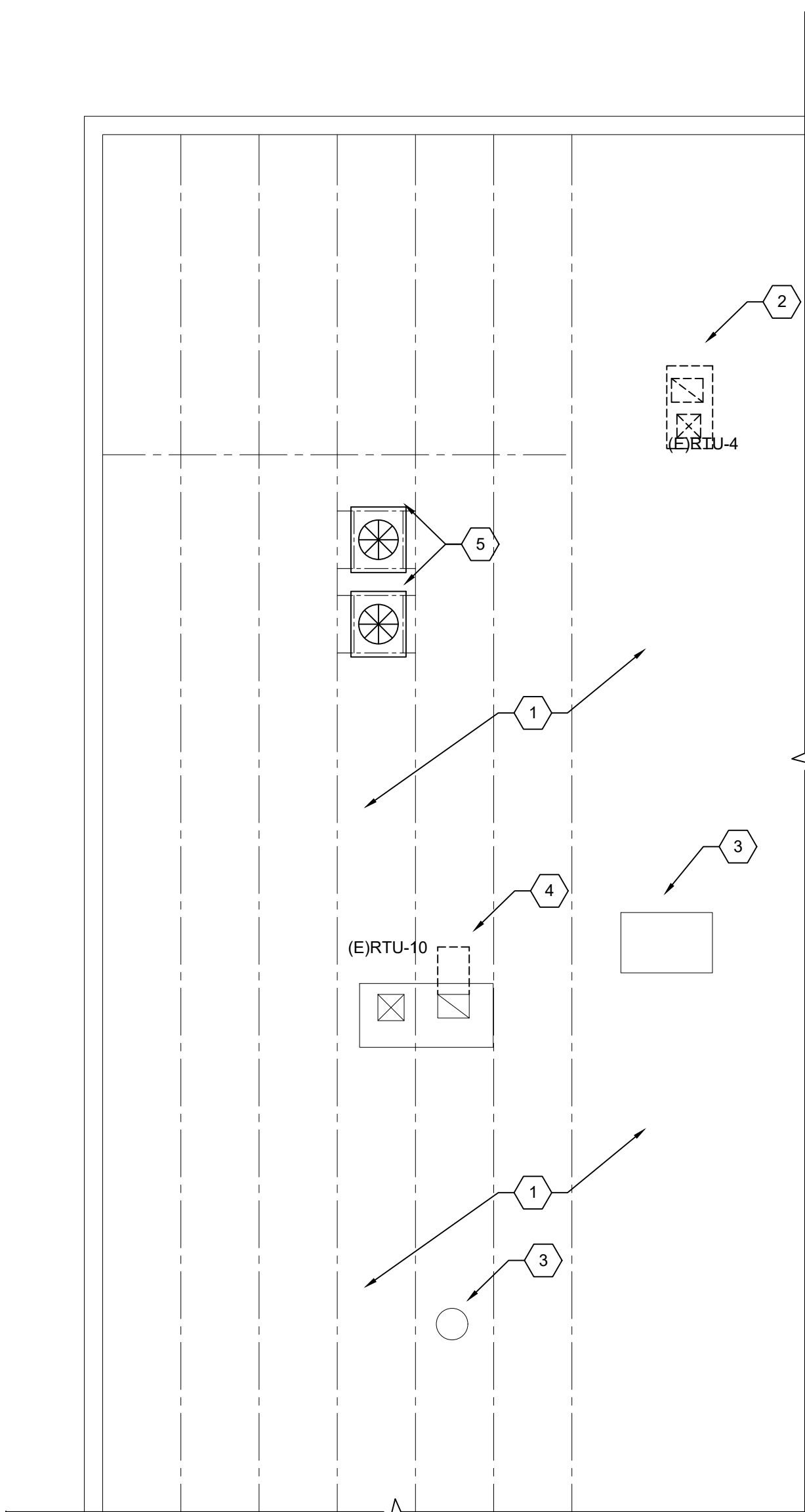
**6**  
A1.2  
**CURB DETAIL**  
N.T.S.



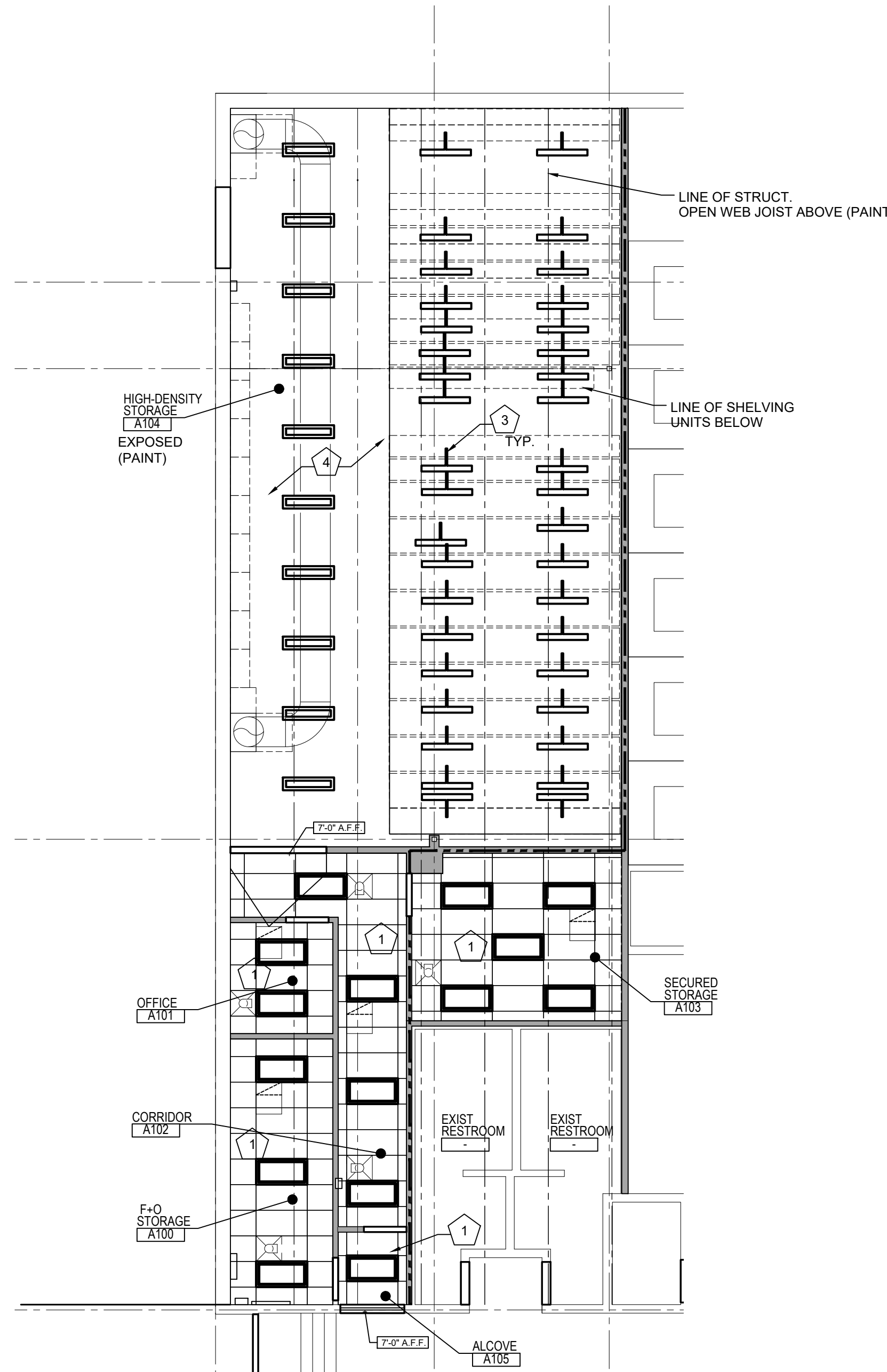
**5**  
A1.2  
**TYP. CURB FRAMING DETAIL**  
SCALE: 1" = 1'-0"



**4**  
A1.2  
**TYP. JOIST REINFORCEMENT DETAIL**  
SCALE: 1" = 1'-0"



**2**  
A1.2  
**CLEMENS CENTER  
PARTIAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**1**  
A1.2  
**CLEMENS CENTER  
REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"

**NEW WORK  
FLOOR PLAN KEYNOTES**

- 1 NEW WALL PARTITION - REFER TO LEGEND.
- 2 NEW DOOR, FRAME AND HARDWARE - REFER TO DOOR SCHEDULE. TOOTH-IN NEW BULLNOSE EDGE CMU (PAINT) AT BOTH JAMBS. PROVIDE NEW MASONRY LINTEL WITH 8" MIN. BEARING.
- 3 NEW QUARTZ COUNTER, BACKPLASH AND BASE CABINETS. REFER TO INTERIOR ELEVATIONS.
- 4 NEW FLOOR, WALL AND CEILING FINISHES. REFER TO ROOM FINISH SCHEDULE.
- 5 NEW GYPSUM BOARD ENCLOSURE AT EXISTING COLUMN.
- 6 HIGH-DENSITY STORAGE SYSTEM WITH SHELVING, LED LIGHTING, ETC. RAIL SYSTEM TO BE RECESSED INTO EXISTING CONCRETE FLOOR. REFER TO DEMOLITION PLAN. LEVEL FLOOR AS REQUIRED. REFER TO SPECIFICATIONS.
- 7 PROVIDE NEW PARTITION ABOVE EXISTING WALL (TIGHT TO THE DECK).
- 8 PATCH EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FLOOR DRAIN/SANITARY LINE. REFER TO MECH. DWGS. COORDINATE WITH TRADES FOR EXACT LOCATION OF EXISTING SANITARY LINE.
- 9 NEW AIR CONDITIONING UNIT. REFER TO MECH./ELECT. DWGS.
- 10 INFILL NEW TRENCH FOR NEW HIGH-DENSITY STORAGE RECESSED RAIL SYSTEM PER THE MANUFACTURER'S SPECIFICATIONS.
- 11 NEW 6"x4" MARKERBOARD. REFER TO SPECS.
- 12 NEW 4"x4" TACKBOARD. REFER TO SPECS.
- 13 NEW OPEN SHELVING UNITS. REFER TO LEGEND.

**REFLECTED CEILING  
KEYNOTES**

- 1 NEW 2'x4' CEILING GRID AND TILE WITH NEW LIGHTING, DIFFUSERS, ETC. REFER TO ELECT. DRAWINGS.
- 2 NEW GYPSUM BOARD WALL HEAD (PAINT).
- 3 NEW LED AISLE LIGHT FIXTURES MOUNTED TO TOP OF SHELVING UNITS AND PROVIDED BY HIGH-DENSITY STORAGE MANUFACTURER (TWO LIGHT FIXTURES TYPICAL AT EACH ROW WITH EXCEPTION OF THE TWO END ROWS) REFER TO ELECT. DRAWINGS.
- 4 EXPOSED STRUCTURAL DECK, JOIST AND BEAMS ABOVE (PAINT).

**ROOF PLAN KEYNOTES**

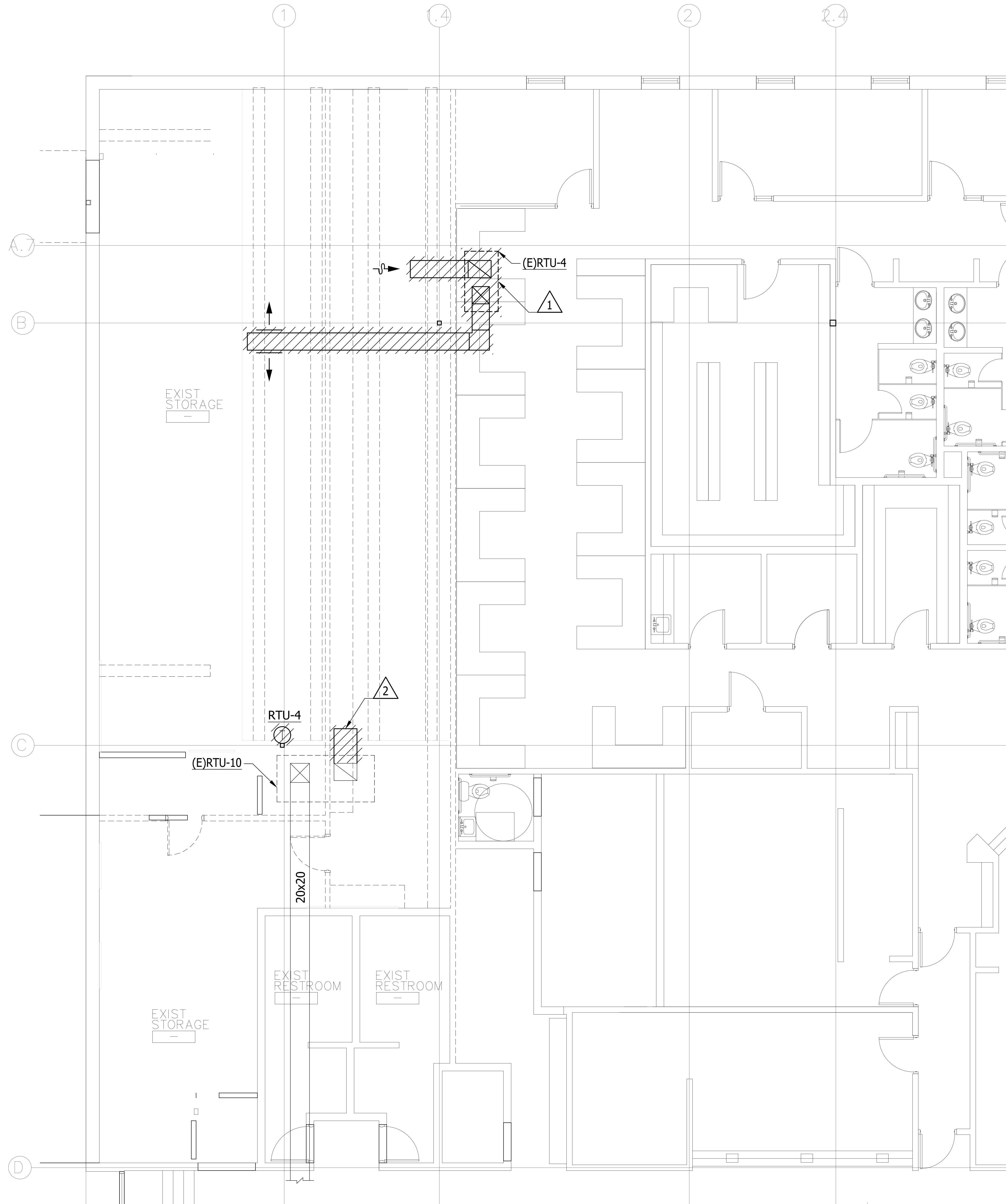
- 1 EXISTING BUILT-UP ROOFING SYSTEM TO REMAIN.
- 2 EXISTING ROOF TOP UNIT (RTU-4) TO BE REMOVED INCLUDING ALL DUCTWORK, ACCESSORIES, ETC. REFER TO MECH. DWGS. EXISTING CURB TO REMAIN. INFILL CURB AND CAP EXISTING OPENING. SEAL ALL PENETRATIONS WEATHER TIGHT.
- 3 EXISTING ROOF TOP UNITS, EXHAUST FANS, ETC. TO REMAIN.
- 4 EXISTING DUCTWORK TO BE REMOVED COMPLETE. CAP ALL PENETRATIONS THRU ROOF.
- 5 NEW ROOF MOUNTED CONDENSING UNITS ON EQUIPMENT RAILS. REFER TO MECH. DWGS.

NOTE:  
1. ALL ADDITIONAL SUPPLEMENTAL STRUT MUST BE INSTALLED IN STEEL JOISTS AT ALL CONCENTRATED LOADS IN EXCESS OF 50 LBS. UNLESS THE LOAD ATTACHMENTS AT A PANEL POINT OF THE JOISTS.  
2. AN ADDITIONAL STRUT IS NOT REQUIRED IF 'X' OR 'Y' IS LESS THAN OR EQUAL TO 6".  
3. CONCENTRATED LOADS GREATER THAN 250 LBS. WHICH ARE NOT SPECIFIED ON THE PLANS, ARE NOT PERMITTED WITHOUT REVIEW BY THE PROFESSIONAL - OF - RECORD.

IMPORTANT NOTE:  
ALL EXISTING BUILT-UP ROOFING TO REMAIN. ALL WORK (FLASHING, PENETRATIONS, ETC.) TO BE DONE BY AN TREMCO APPROVED CONTRACTOR TO MAINTAIN WARRANTY. CONTACT EARL SRBU AT 586.933.7069 PRIOR TO CONSTRUCTION.







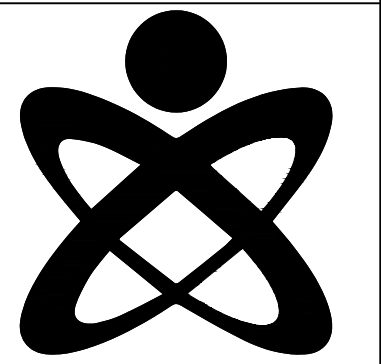
GENERAL DEMOLITION NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

DEMOLITION KEYED NOTES	
1	REMOVE PACKAGED ROOFTOP UNIT COMPLETE INCLUDING ALL DUCTWORK AND ACCESSORIES. CAP GAS PIPING AT ROOF. INFILL CURB AND CAP EXISTING OPENING. SEAL PENETRATIONS WEATHER TIGHT.
2	REMOVE RETURN AIR OPEN DUCTWORK BACK TO DROP THRU ROOF AND CAP. PREPARE DROP FOR NEW CONNECTION.



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UBS PROJECT: 007.24.02

MACOMB COUNTY BOARD OF COMMISSIONERS  
CLEMENS CENTER COUNTY CLERK STORAGE RENOVATION

CLEMENS CENTER  
MECHANICAL DEMOLITION  
LOWER LEVEL FLOOR PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: MPH  
CHECKED BY: MPH

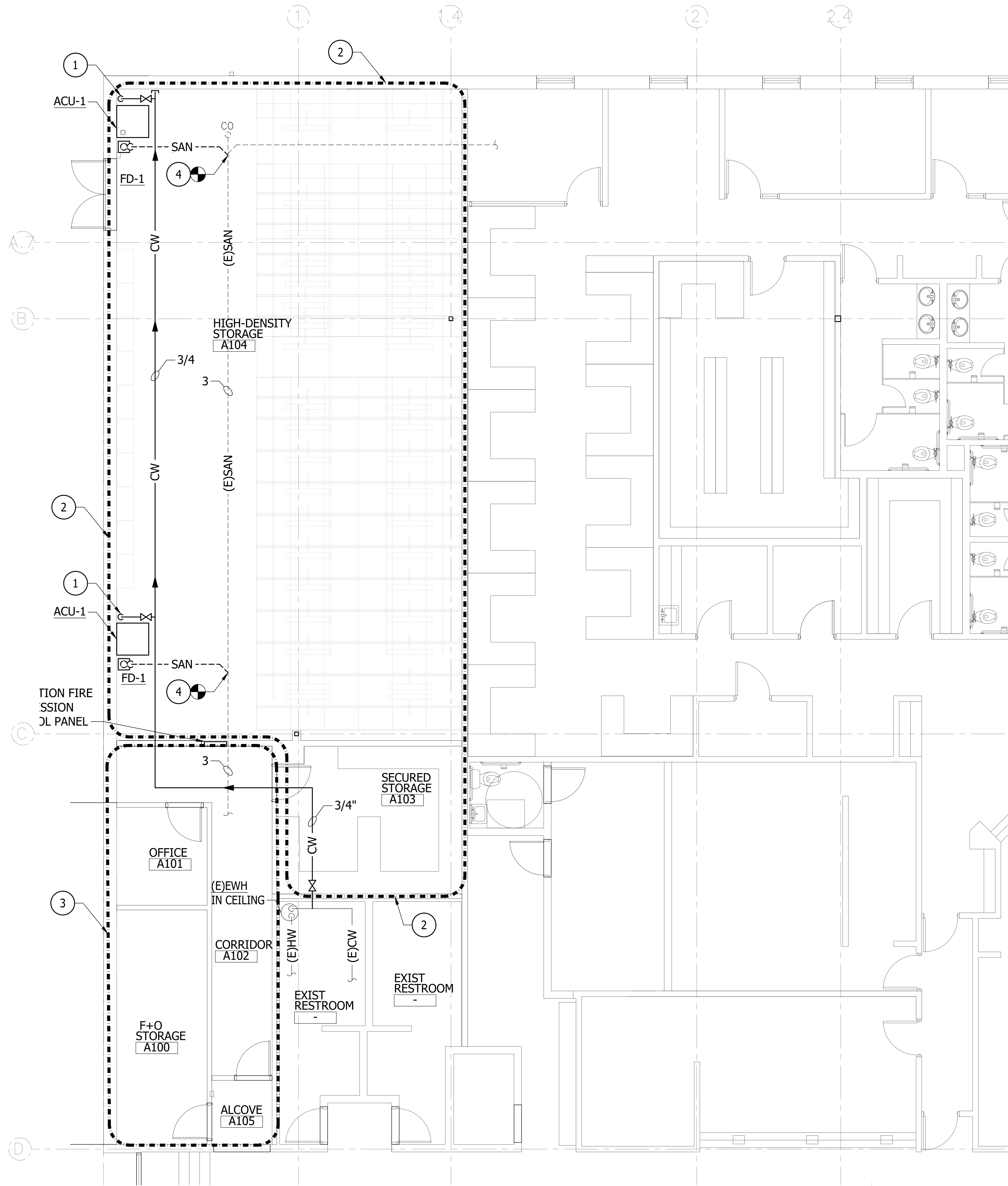
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CLEMENS CENTER MECHANICAL DEMOLITION LOWER LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"



**CLEMENS CENTER PLUMBING NEW WORK LOWER LEVEL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

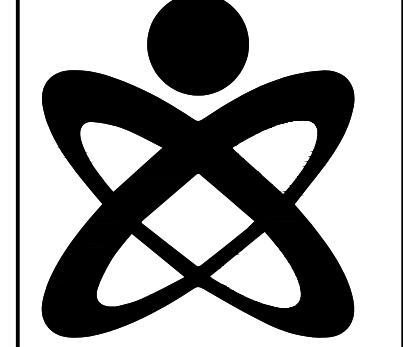
HVAC GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
C	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO IDENTITY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEY'S FEES ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECTIONS SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
H	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCUMENTS AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING STEEL SHALL BE PROVIDED BY THE CONTRACTOR.
K	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
M	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE NO DUCT SIZE IS INDICATED.

FIRE PROTECTION GENERAL NOTES	
A	SEE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE/REWORK FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, NFPA, OWNERS INSURER'S REQUIREMENTS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
B	THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW MECHANICAL EQUIPMENT.
C	MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
D	FIRE PROTECTION TRADES SHALL SUBMIT PLANS, FLOW AND PRESSURE TEST AND CALCULATIONS TO THE LOCAL FIRE MARSHAL AND TO THE BUILDING'S INSURING AGENCY FOR APPROVAL. CONTRACTOR SHALL THEN MAKE ALL NECESSARY CORRECTIONS AND RESUBMIT PLANS AND CALCULATIONS FOR RECORD TO THE ARCHITECT AS WELL AS THE FIRE MARSHAL.
E	CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTS AND PAY FOR ALL FEES, PERMITS, INSPECTIONS, AND LICENSES, AS REQUIRED BY THE LOCAL AUTHORITY.

NEW WORK KEYED NOTES	
1	ROUTE 1/2" CW DOWN ALONG WALL AND CONNECT TO 1/4" UNIT HUMIDIFIER CONNECTION. TERMINATE WITH ASSE 1022 BACKFLOW PREVENTION DEVICE AND ISOLATION VALVE.
2	IN AREA INDICATED, REMOVE ALL BUILDING SERVED WET-PIPE SPRINKLER SYSTEM AND CAP OUTSIDE OF AREA. PROVIDE NEW PRE-ACTION DRY FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 STANDARDS. COORDINATE PLACEMENT OF RISER/AIR COMPRESSOR IN FIELD WITH OWNER PRIOR TO INSTALLATION. PROVIDE CONTROL PANEL IN OFFICE SPACE JUST OUTSIDE OF ROOM.
3	IN AREA INDICATED, RE-WORK EXISTING FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. COORDINATE WITH ARCHITECTURAL CEILING LAYOUTS AS NECESSARY.
4	FIELD VERIFY EXISTING SANITARY LOCATION, FLOW DIRECTION, AND ELEVATION IN FIELD PRIOR TO INSTALLATION. IF CONDITIONS VARY GREATLY THAN INDICATED ON PLANS, REPORT FINDINGS TO ENGINEER.



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CLEMENS CENTER COUNTY CLERK STORAGE RENOVATION**

CLEMENS CENTER PLUMBING  
NEW WORK LOWER LEVEL  
FLOOR PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY \_\_\_\_\_ MPH  
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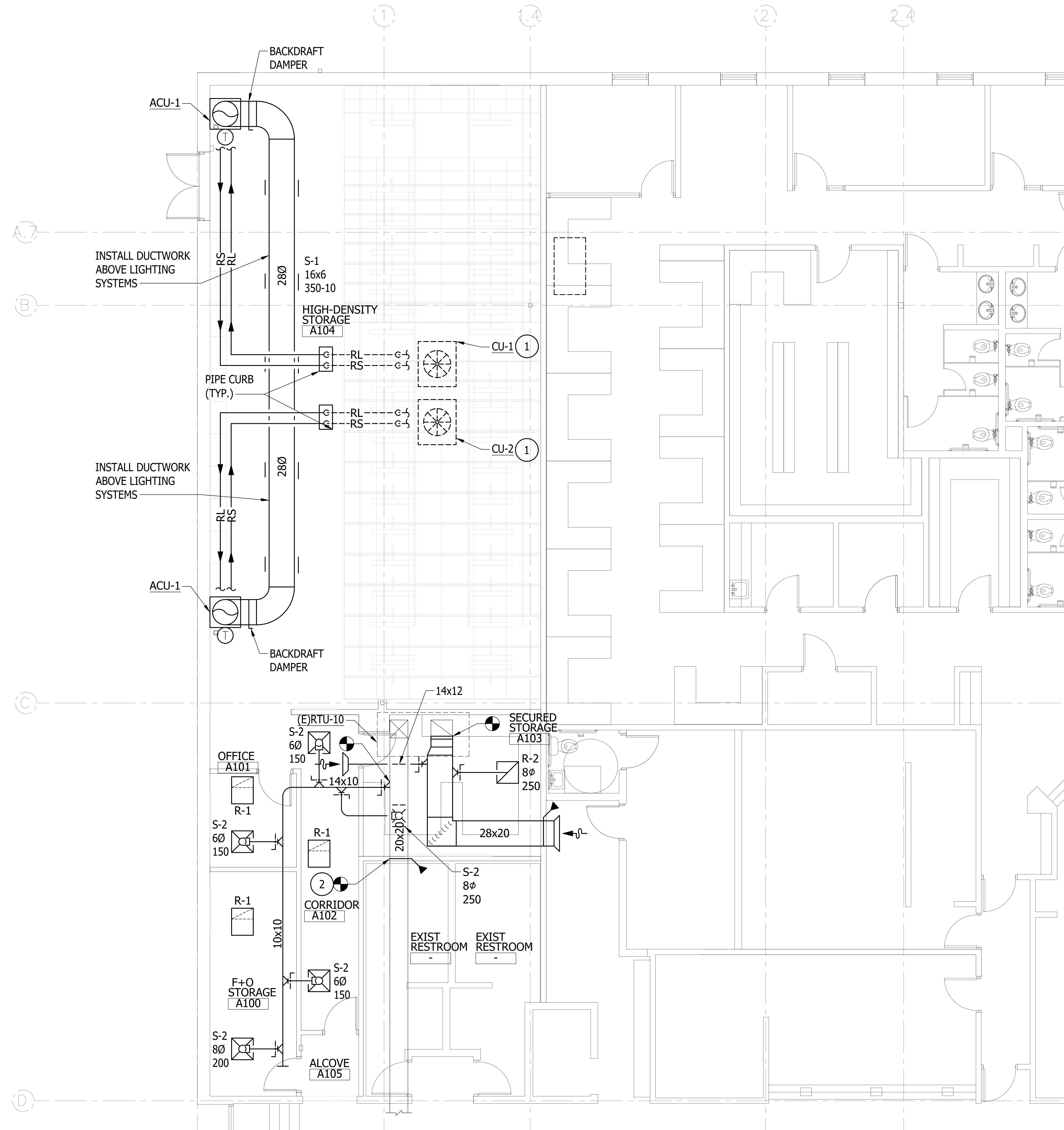
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BACKDRAFT DAMPER

ACU-1

INSTALL DUCTWORK ABOVE LIGHTING SYSTEMS

PIPE CURB (TYP.)

ACU-1

BACKDRAFT DAMPER

S-1  
16x6  
350-10

HIGH-DENSITY STORAGE  
A104

(E)RTU-10

OFFICE  
A101

R-1

S-2  
60  
150

R-1

S-2  
60  
150

R-1

10x10

F+O STORAGE  
A100

S-2  
80  
200

ALCOVE  
A105

14x12

SECURED STORAGE  
A103

R-2  
8ø  
250

28x20

S-2  
8ø  
250

CORRIDOR  
A102

EXIST RESTROOM

EXIST RESTROOM

HVAC GENERAL NOTES

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C	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO IDENTIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEY'S FEES ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
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G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECTIONS SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
H	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCUMENTS AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING STEEL SHALL BE PROVIDED BY THE CONTRACTOR.
K	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
M	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE NO DUCT SIZE IS INDICATED.

NEW WORK KEYED NOTES

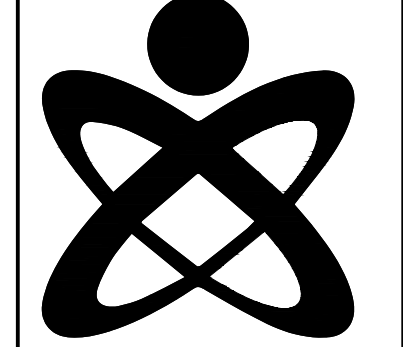
1	INSTALL ROOF MOUNTED CONDENSING UNIT ON EQUIPMENT RAILS. EQUIPMENT SHALL BE INSTALLED MINIMUM 10'-0" FROM ROOF EDGE. ROOF MOUNTED REFRIGERANT PIPING SHALL BE INSTALLED ON PIPE SUPPORTS. ALL PIPING IN SPACE SHALL NOT BE INSTALLED OVER STORAGE CABINETS.
2	INSTALL NEW FIRE DAMPER IN EXISTING DUCT AT NEW FIRE WALL PENETRATION. REMOVE SECTIONS OF DUCT AS REQUIRED FOR INSTALLATION. FIELD VERIFY EXACT SIZE AND WALL THICKNESS IN FIELD PRIOR TO INSTALLATION.

CLEMENS CENTER MECHANICAL NEW WORK LOWER LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"



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LUMINAIRE SCHEDULE					
FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	MANUFACTURER(S)	LAMP SOURCE	WATTS
	A	2'x4' LOW PROFILE TROFFER EDGE LIT FLAT PANEL LED LUMINAIRE. A FULLY LUMINOUS APPEARANCE GLARE FREE. SUITABLE FOR RECESS MOUNTING IN LAY-IN TYPE GRID CEILING. ALUMINUM FRAME WITH SATIN WHITE LENS. 4800 LUMENS. ELECTRONIC DRIVER, 4000K. 0-10V DIMMING CAPABLE, UNIVERSAL VOLTAGE.	1. LITHONIA EPANEL LED FLAT PANEL 2. COOPER LIGHTING 3. COLUMBIA LIGHTING	LPB40 80CRI 4800 LUMENS	38.9
	B	8'1" X 3.4" W X 2.7" D LED LINEAR STRIP FIXTURE. ROLLED STEEL HOUSING, END CAPS, WHITE FINISH. FLAT DIFFUSED LENS, LED ELECTRONIC DRIVER 0-10V DIMMING DOWN TO 10%. 4000 LUMENS, 4000K, 80 CRI. CABLE, 120V OPERATION.	1. LITHONIA CLX L48-4000L SEF FDL MVOLT G210 40K 80CRI HC36 LUGR 2. EATON LIGHTING 3. COLUMBIA LIGHTING	LED 4000K 4500LM 80CRI	63.7W
	EF	SAME AS TYPE # EXCEPT THIS FIXTURE WILL BE PROVIDED WITH AN INTERNAL BATTERY PACK. WIRE SUCH IT OPERATES NORMALLY WITH A SWITCH AND AS AN EMERGENCY LIGHT UPON LOSS OF POWER.			
	X	EXIT LIGHT EMERGENCY LIGHT SHALL BE UNIVERSAL MOUNT, DIECAST ALUMINUM, HIGH OUTPUT LED DIFFUSE LIGHT PANEL, RED LETTERS WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY CAPABLE OF PROVIDING 90 MINUTE FULL LIGHT OPERATION.	1. LITEALARMS GRANDE SERIES CAT# 1 XDPC N W RW	120-277V	2.3
	XT	EMERGENCY LIGHT REMOTE HEAD TO BE CONNECTED TO EXIT SIGN WITH HIGH OUTPUT BATTERY.	1. LITEALARMS CAT # SAF2 LD1 B 6	120-277V	2.3

### LIGHTING SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHT FIXTURE - CEILING/GRID MOUNT
	LIGHT FIXTURE - INTERIOR WALL MOUNT LINEAR
	LIGHT FIXTURE - DOWNLIGHT WITH WALLWASH DIST.
	LIGHT FIXTURE - INTERIOR WALL SCONCE
	LIGHT FIXTURE - INTERIOR SURFACE MOUNT
	LIGHT FIXTURE - INTERIOR WALL MOUNTED
	LIGHT FIXTURE - INTERIOR PENDANT MOUNT
	LIGHT FIXTURE - INTERIOR PENDANT MOUNT CYLINDER
	TRACK AND TRACK MOUNTED LIGHT FIXTURES
	EXIT LIGHT - CEILING MOUNTED - ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
	EXIT LIGHT - WALL MOUNTED - ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
	EMERGENCY LIGHT FIXTURE - EMERGENCY BATTERY UNIT
	EMERGENCY LIGHT FIXTURE - BATTERY UNIT/EXIT SIGN
	LIGHT FIXTURE - EXTERIOR POLE MOUNT TYPE
	LIGHT FIXTURE - EXTERIOR WALL MOUNT TYPE
	LIGHT FIXTURE - EXTERIOR POST TOP TYPE
	LIGHT FIXTURE - EXTERIOR BOLLARD TYPE

NOTES:  
1. LIGHTING SYMBOLS AS INDICATED ON PLANS ARE NOT DRAWN TO SCALE UNLESS NOTED OTHERWISE.

### LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
\$	SWITCH SINGLE POLE
\$ <sub>o</sub>	OCCUPANCY SENSOR SWITCH
\$ <sub>v</sub>	VACANCY SENSOR SWITCH
\$ <sub>d</sub>	LOW VOLTAGE DIMMER SWITCH
\$ <sub>vo</sub>	VACANCY DIMMER SENSOR SWITCH
@	CEILING MOUNTED OCCUPANCY SENSOR
⊙	CEILING MOUNTED VACANCY SENSOR
\$ <sub>3</sub>	SWITCH THREE-WAY
\$ <sub>x</sub>	SINGLE POLE KEY SWITCH

### POWER SYMBOL LIST

SYMBOL	DESCRIPTION
•	CONDUIT DOWN
○	CONDUIT UP
□	CONTACTOR
□	DISCONNECT SWITCH - NON FIXED
□	DISCONNECT SWITCH - FUSED
□	DISCONNECT SWITCH - COMB. MOTOR STARTER
□	ELECTRICAL PANEL - 208/240 VOLTS
□	ELECTRICAL PANEL - 480 VOLTS
⊕	GROUNDING ROD
⊖	GROUND
—	GROUNDING BAR
⊙	JUNCTION BOX
⊙	JUNCTION BOX WITH HARDWIRED CONNECTION
M	METER
∩	MOTOR - SINGLE PHASE
∩	MOTOR - THREE PHASE
⚡	MOTOR RATED SWITCH
⊕	POWER RECEPTACLE - SIMPLEX TYPE
⊕	POWER RECEPTACLE - DUPLEX TYPE
⊕	POWER RECEPTACLE - DUPLEX 6" ABOVE COUNTER
⊕ <sub>6"</sub>	POWER RECEPTACLE - USB/DUPLEX COMBO. DEVICE
⊕	POWER RECEPTACLE - QUADRUPLE TYPE
⊕	POWER RECEPTACLE - RECESSED FLOOR TYPE
⊕	POWER RECEPTACLE - SPECIALTY TYPE
SPD	SURGE PROTECTION DEVICE
TC	TIME CLOCK
T	TRANSFORMER (REFER TO SCHEDULES FOR INFO)
VSD	VARIABLE SPEED DRIVE

NOTES:  
1. ALL DEVICE RATINGS/SIZES SHALL BE COORDINATED WITH PLANS AND SCHEDULES.

### AUXILIARY SYST. SYMBOL LIST

SYMBOL	DESCRIPTION
□	CAMERA
CR	CARD READER
▼	COMMUNICATIONS DEVICE - 6" ABOVE COUNTER
▼	COMMUNICATIONS DEVICE - FLOOR
▼	COMMUNICATIONS DEVICE - WALL
DH	MAGNETIC DOOR HOLDER
□	PUSH BUTTON
S	SPEAKER
⊖	WALL CLOCK - SINGLE FACE
⊖	WALL CLOCK - DOUBLE FACE
⊖S	WALL CLOCK AND SPEAKER UNIT

NOTES:  
1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONDUIT FOR ALL DEVICES INDICATED.  
2. LOW VOLTAGE CONTRACTOR SHALL PROVIDE EXACT SPECIFICATIONS AND LOCATIONS OF ALL DEVICES.

### FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION
S	DETECTION DEVICE
S	DETECTION DEVICE - DUCT MOUNTED
FS	DETECTION DEVICE - FLOW SWITCH
TS	DETECTION DEVICE - TAMPER SWITCH
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DEPARTMENT COMMUNICATION OUTLET
F	MANUAL DEVICE - PULL STATION
F	NOTIFICATION DEVICE - WALL MOUNTED
F	NOTIFICATION DEVICE - CEILING MOUNTED

NOTES:  
1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

### ELECTRICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A	AMPERE
AF	AMPERE FUSE/AMPERE FRAME
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
C	CONDUIT OR CEILING MOUNTED
CB	CIRCUIT BREAKER
CU	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
F	FUSE
G/GRD	GROUND
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N/NEU	NEUTRAL
NF	NON-FUSIBLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED / OWNER INSTALLED
PH. OR #	PHASE
P	POLE
PF	POWER FACTOR
PVC	POLYVINYL CHLORIDE (PLASTIC)
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(RR)	REMOVE AND REINSTALL
RMC	RIGID METALLIC CONDUIT
RP	RECEPTACLE PANEL
SPEC/SPECS	SPECIFICATIONS
TBB	TELEPHONE BACKBOARD
TYP.	TYPICAL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

### DRAWING INDEX

SHT NO	DESCRIPTION
E0.00	ELECTRICAL GENERAL INFORMATION & LIGHTING SCHEDULE
EPD1.00	CLEMENS CENTER POWER DEMOLITION LOWER LEVEL FLOOR PLAN
ELD1.00	CLEMENS CENTER LIGHTING DEMOLITION LOWER LEVEL FLOOR PLAN
EP1.00	CLEMENS CENTER POWER NEW WORK LOWER LEVEL FLOOR PLAN
EL1.00	CLEMENS CENTER LIGHTING NEW WORK LOWER LEVEL FLOOR PLAN
E5.00	ELECTRICAL DETAILS & PANEL SCHEDULE
E6.00	ELECTRICAL ONE-LINE DIAGRAM

### DRAWING NOTATION

SYMBOL	DESCRIPTION
LA	LIGHTING FIXTURE TAG
①	CONSTRUCTION KEY NOTE NUMBER 1
①	DEMOLITION KEY NOTE NUMBER 1
①	FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE ON THIS SHEET)
EF-1	EQUIPMENT DESIGNATION, (I.E. EXHAUST FAN NUMBER 1)
—	EXISTING DEVICES OR EQUIPMENT
—	NEW OR MODIFIED DEVICES OR EQUIPMENT
---	NEW OR MODIFIED UNDERGROUND WIRING
////	EXISTING SYSTEM COMPONENT TO BE REMOVED
▲	SECTION NUMBER 4
▲	SHEET E5.2 ON WHICH SECTION IS DRAWN
▲	SECTION NO. 6
▲	SCALE: 1/4" = 1' - 0"
▲	SHEET E5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR)
▲	LIGHTING CONTROL TAG
▲	SCENE SCHEDULE ID 'A'
▲	DAYLIGHTING CONTROL ZONE '1' (MAY NOT APPEAR ON EVERY TAG)

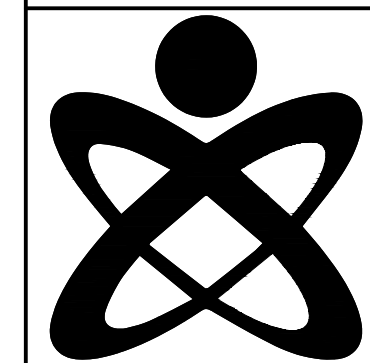
### APPLICABLE CODES AND REGULATIONS

YEAR	CODE
2015	MICHIGAN BUILDING CODE
2015	MICHIGAN ENERGY CODE
2023	MICHIGAN ELECTRICAL CODE RULES, PART 8
2023	NATIONAL ELECTRICAL CODE (NFPA 70)
2013	NFPA 20
2013	NFPA 72
2012	NFPA 101
2013	NFPA 110
2009	ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES



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UBS PROJECT 007.24.02

MACOMB COUNTY BOARD OF COMMISSIONERS  
CLEMENS CENTER COUNTY CLERK STORAGE RENOVATION

ELECTRICAL GENERAL  
INFORMATION & LIGHTING  
SCHEDULE

PRELIMINARY   
DESIGN DEVELOPMENT   
CONSTRUCTION   
FINAL RECORD

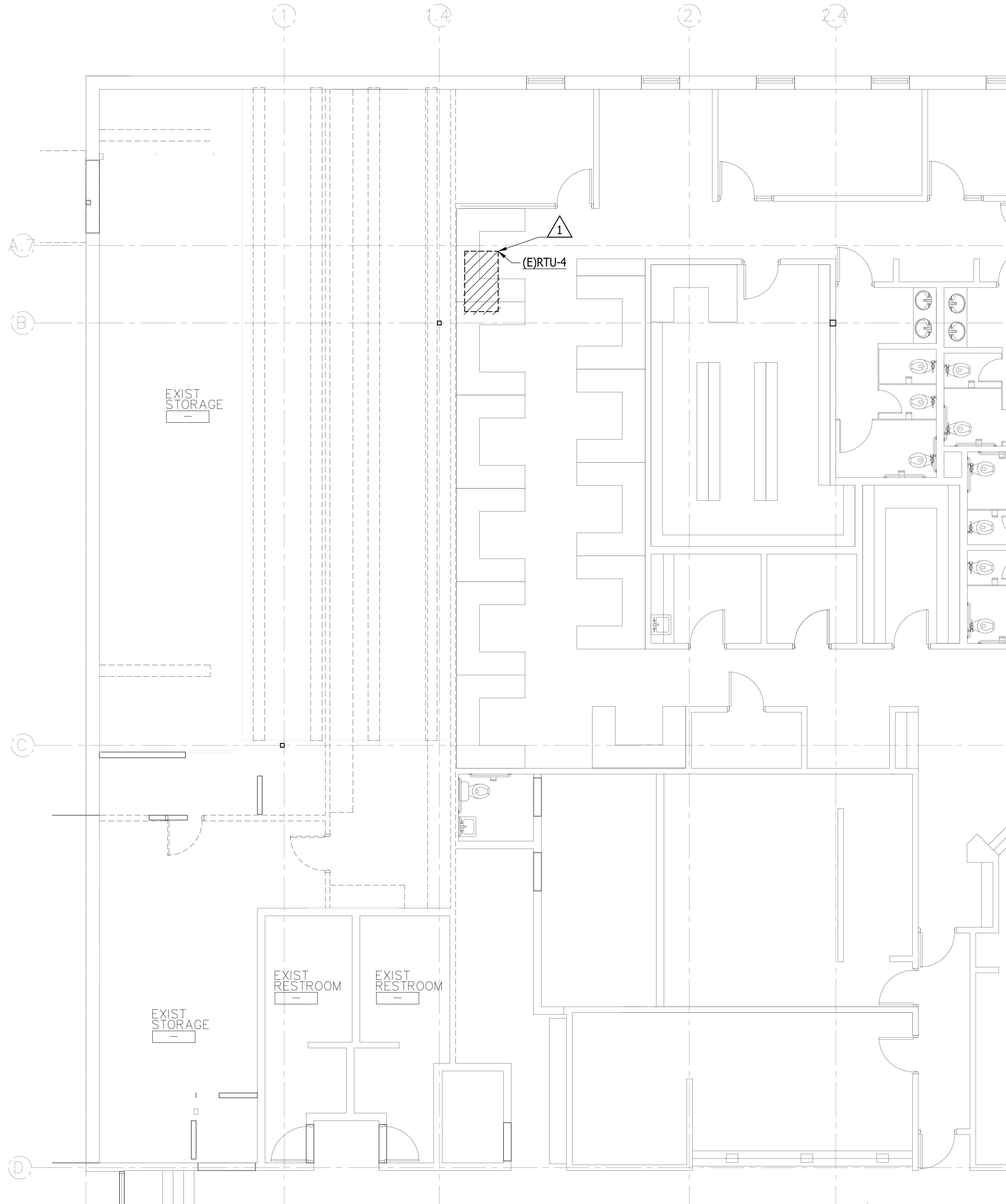
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CHECKED BY: RDL

REVISIONS

DATE: JULY 25, 2024  
SHEET NO.

E0.00

JOB NO. 231987



GENERAL DEMOLITION NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

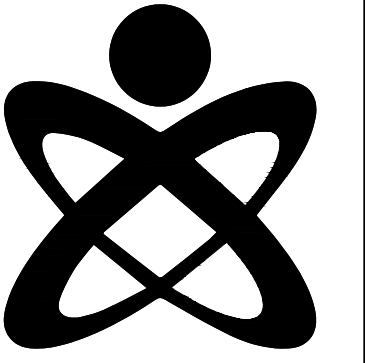
DEMOLITION KEYED NOTES	
1	RTU-4 BEING REMOVED BY MECHANICAL TRADES. EC TO DISCONNECT AND MAKE SAFE. TAKE WIRING AND CONDUIT BACK TO SOURCE. MARK BREAKER AS STABE.

**CLEMENS CENTER POWER DEMOLITION LOWER LEVEL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



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**MACOMB COUNTY BOARD OF COMMISSIONERS**  
**CLEMENS CENTER COUNTY CLERK STORAGE RENOVATION**

CLEMENS CENTER POWER  
DEMOLITION LOWER LEVEL  
FLOOR PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: RDL

CHECKED BY: RDL

REVISIONS

NO.	DESCRIPTION

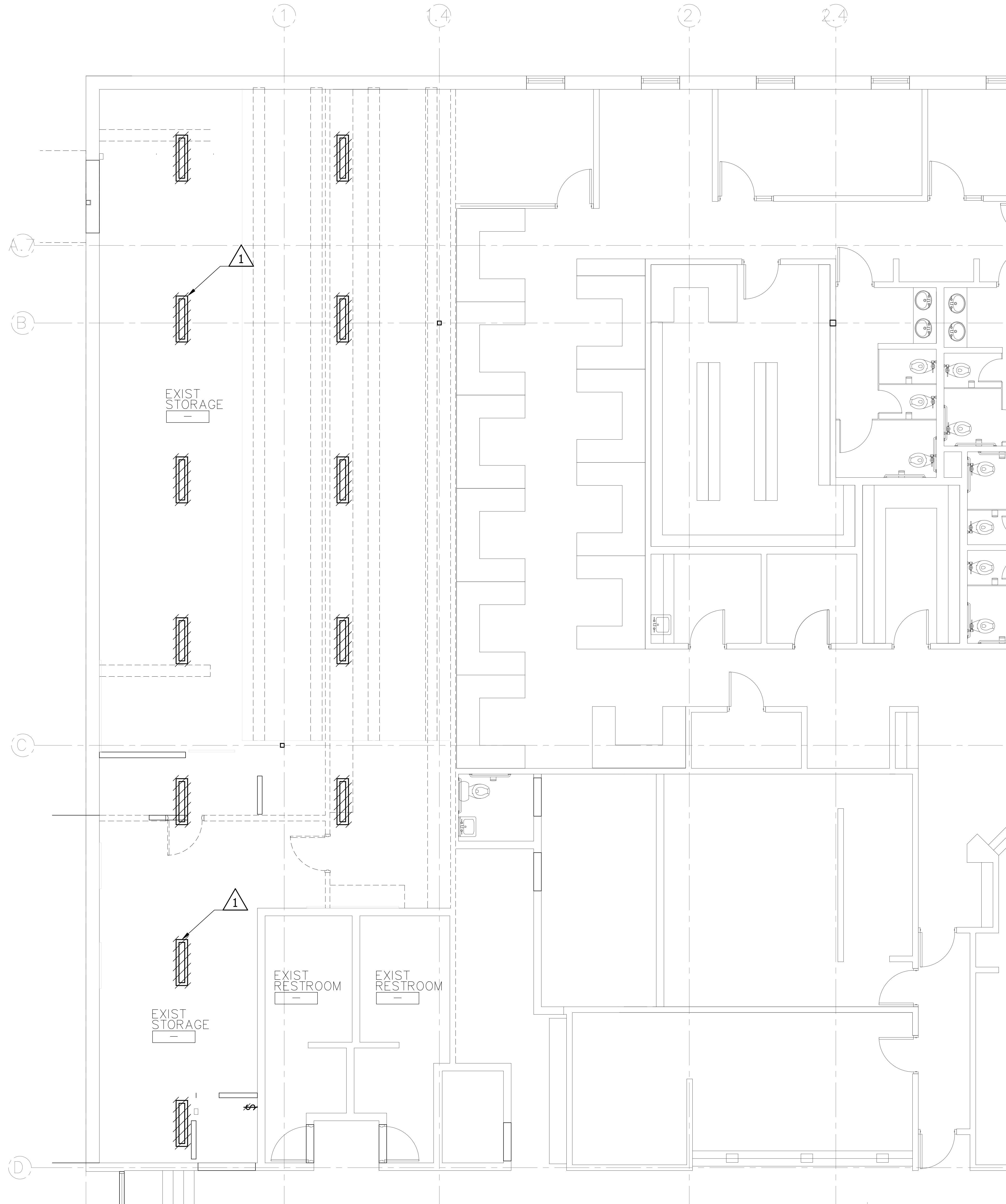
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**CLEMENS CENTER LIGHTING DEMOLITION LOWER LEVEL FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

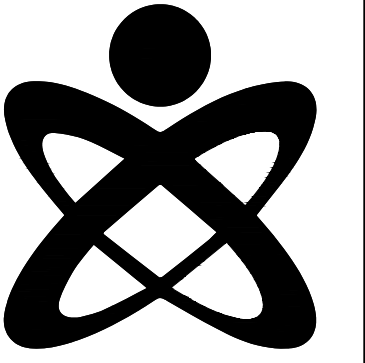
GENERAL DEMOLITION NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
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F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

DEMOLITION KEYED NOTES	
1	DISCONNECT AND REMOVE STORAGE AREA LIGHTING AND ASSOCIATED OCCUPANCY SENSORS. REFER TO NEW WORK PLANS FOR NEW STORAGE ROOM RENOVATION LAYOUT.



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CLEMENS CENTER LIGHTING  
DEMOLITION LOWER LEVEL  
FLOOR PLAN

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DRAWN BY: RDL

CHECKED BY: RDL

REVISIONS

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ELD1.00

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