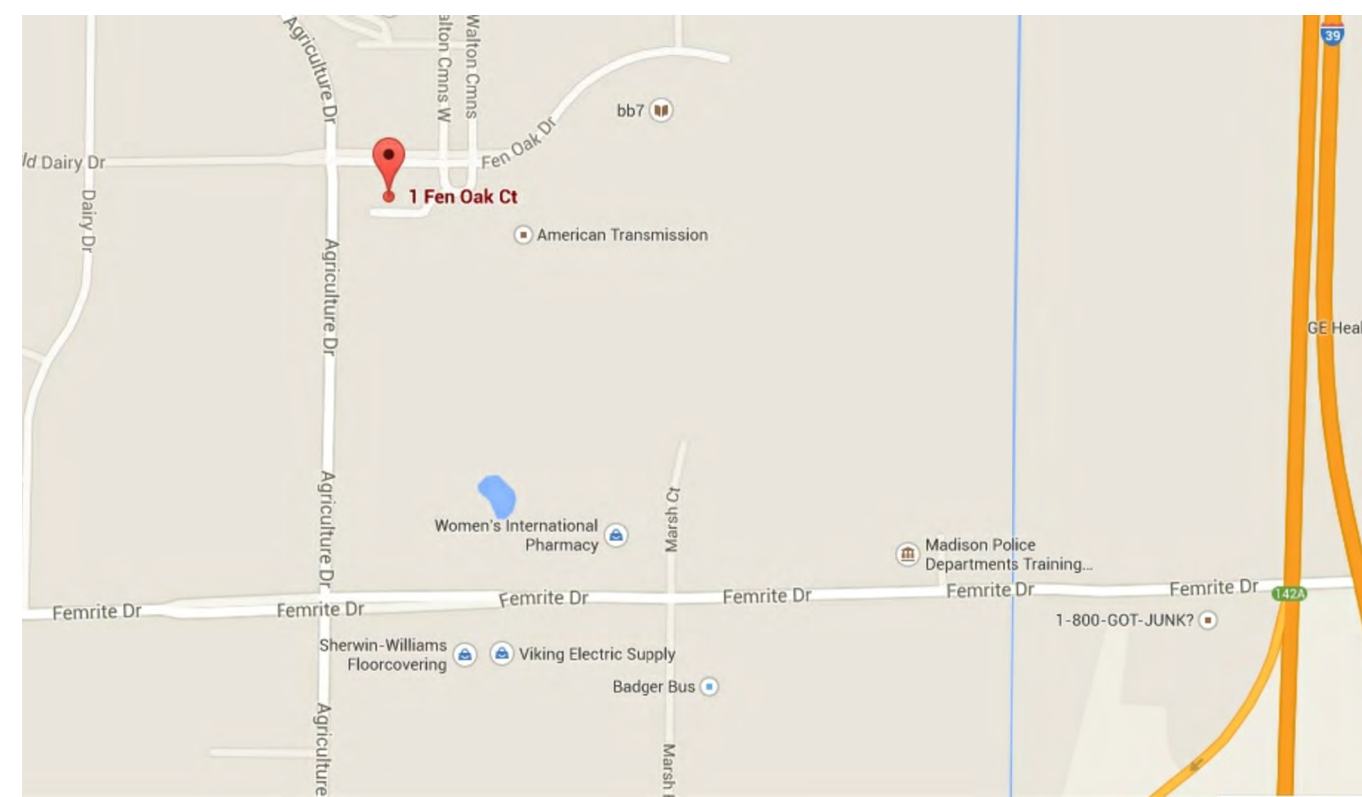


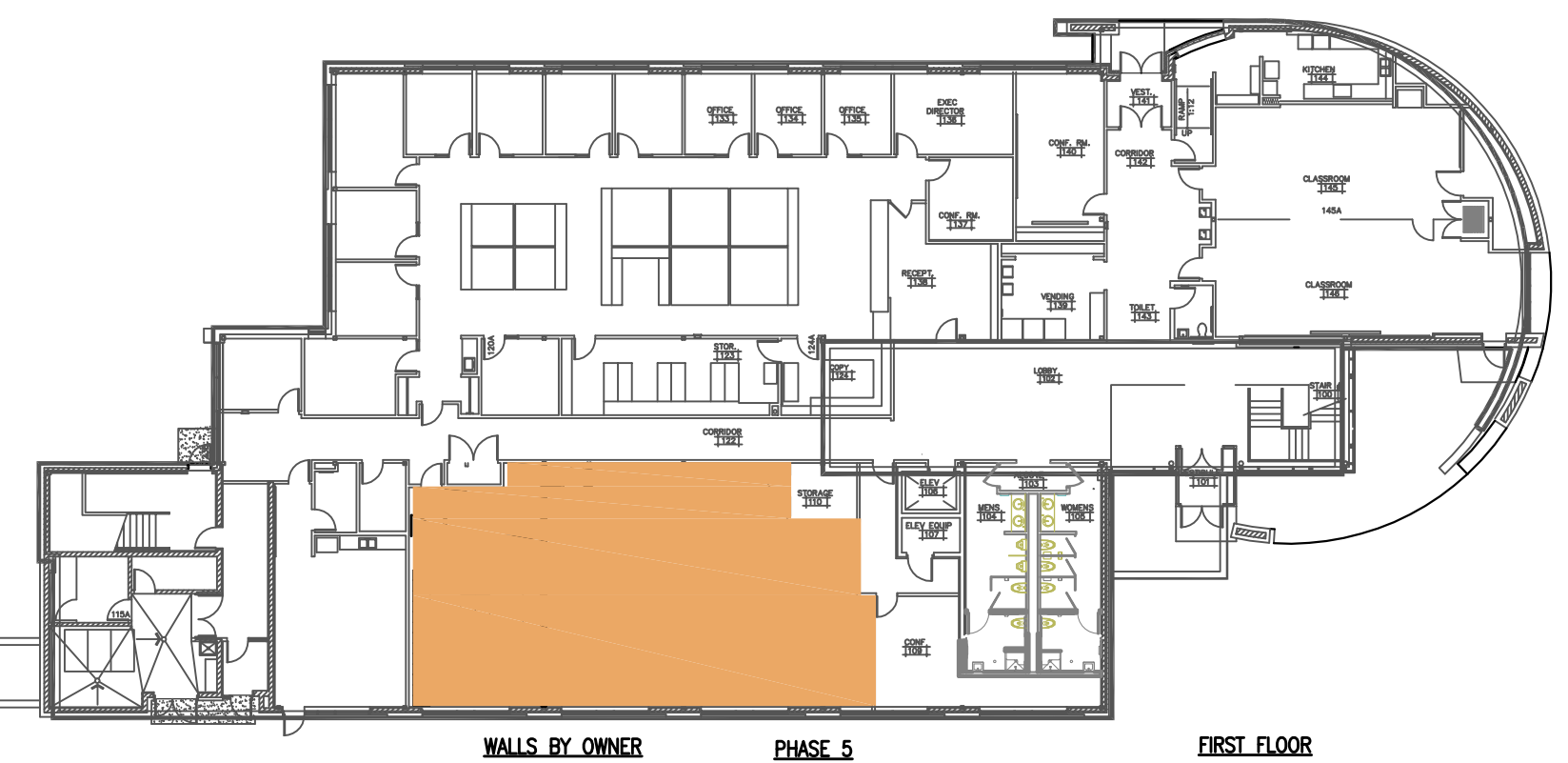
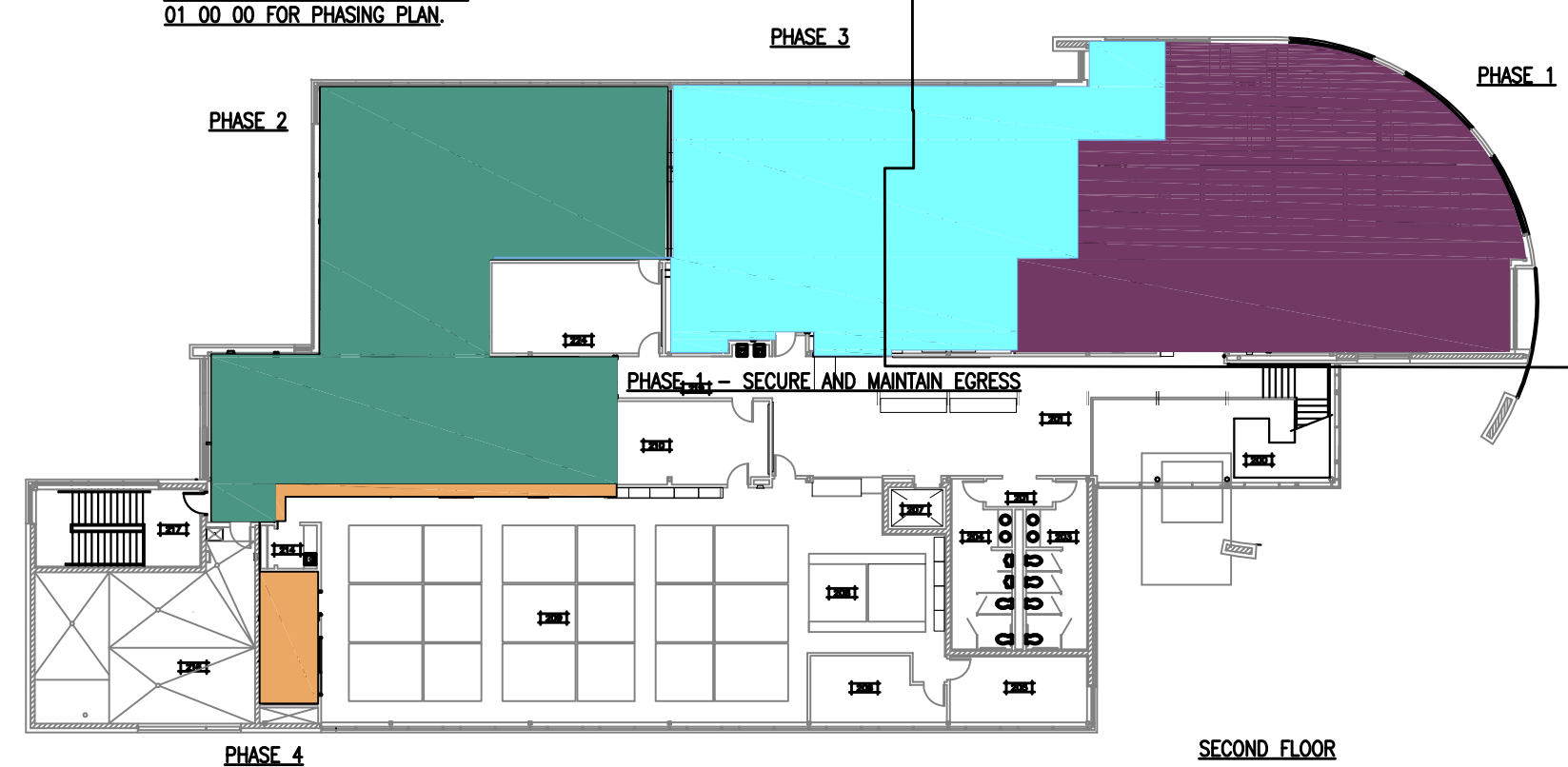
FEN OAK SECOND FLOOR RENOVATIONS LYMAN F. ANDERSON AGRICULTURE AND CONSERVATION CENTER 5201 FEN OAK DRIVE MADISON, WISCONSIN



MADISON, WISCONSIN

PHASE 1 AND EAST PORTION OF PHASE 2 WILL BE OCCUPIED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) DANE COUNTY FARM SERVICE AGENCY (FSA) AND NATURAL RESOURCES CONSERVATION SERVICE (NRCS). SEE INFORMATIONAL BID 1.

REFER TO SPECIFICATION SECTION 01 00 00 FOR PHASING PLAN.



PHASED CONSTRUCTION PLAN

INDEX OF DRAWINGS

- GENERAL**
- G1.0 COVER SHEET AND INDEX OF DRAWINGS
- DEMOLITION**
- D2.1 SECOND FLOOR DEMOLITION PLAN
- D3.1 SECOND FLOOR DEMO REFLECTED CEILING PLAN
- ARCHITECTURAL**
- A2.0 FIRST FLOOR PLAN
- A2.1 SECOND FLOOR PLAN
- A3.1 SECOND FLOOR REFLECTED CEILING PLAN
- A7.0 DOOR & FRAME ELEVATIONS, PARTITION TYPES, DETAILS & SCHEDULE
- A8.0 INTERIOR ELEVATIONS
- A9.1 SECOND FLOOR FINISH PLAN AND ILLUSTRATIVE FURNITURE PLAN
- FIRE PROTECTION**
- FP0.0 SYMBOLS AND ABBREVIATIONS - FIRE PROTECTION
- FP1.1 PARTIAL FIRST FLOOR DEMOLITION PLAN - FIRE PROTECTION
- FP1.2 PARTIAL SECOND FLOOR DEMOLITION PLAN - FIRE PROTECTION
- FP2.1 PARTIAL FIRST FLOOR NEW WORK PLAN - FIRE PROTECTION
- FP2.2 PARTIAL SECOND FLOOR NEW WORK PLAN - FIRE PROTECTION
- PLUMBING**
- P2.1 FLOOR PLANS - PLUMBING
- MECHANICAL**
- M0.0 SYMBOLS AND ABBREVIATIONS - HVAC
- M1.1 PARTIAL FIRST FLOOR DEMOLITION PLAN - HVAC
- M1.2 PARTIAL SECOND FLOOR DEMOLITION PLAN - HVAC
- M2.1 PARTIAL FIRST FLOOR PLAN NEW WORK PLAN - HVAC
- M2.2 PARTIAL SECOND FLOOR PLAN NEW WORK PLAN - HVAC
- M3.0 DETAILS - HVAC
- M4.0 SCHEDULES - HVAC
- ELECTRICAL**
- E0.0 SYMBOLS & SCHEDULES ELECTRICAL
- E1.1 PARTIAL FIRST FLOOR DEMOLITION PLAN ELECTRICAL
- E1.2 PARTIAL SECOND FLOOR DEMOLITION PLAN ELECTRICAL
- E2.1 PARTIAL FIRST FLOOR NEW WORK PLAN ELECTRICAL
- E2.2 PARTIAL SECOND FLOOR NEW WORK LIGHTING PLAN
- E2.3 PARTIAL SECOND FLOOR NEW WORK PLAN POWER & SYSTEMS
- E9.0 DETAILS - ELECTRICAL

SCHEDULE OF ALTERNATE BIDS

- SCHEDULE OF ALTERNATE BIDS**
- ALTERNATE BID 1: PROVIDE CPT-1 AND RB-1 IN SECOND FLOOR AREAS NOTED 'EXISTING CARPET' ON A9.1 INCLUDING REMOVAL OF EXISTING.
- ALTERNATE BID 2: PROVIDE ACCESS CONTROL SYSTEM INCLUDING ASSOCIATED MODIFICATIONS TO DOORS AND FRAMES
- SCHEDULE OF INFORMATIONAL BIDS**
- INFORMATIONAL BID 1: WORK RELATED TO UNITED STATES DEPARTMENT OF AGRICULTURE DANE COUNTY FARM SERVICE AGENCY AND NATURAL RESOURCES CONSERVATION SERVICE. ALL DIVISION 28 WORK (PHONE, DATA, POWER) IN FED SERVER ROOM 230 AND ASSOCIATED WITH THE RELOCATION OF FED STAFF. MODIFICATIONS TO OPENINGS TO SECURE THE FSA SUITE INCLUDING BASE BID WORK AT FSA ENTRY 234 AND DOOR 228 (INCLUDING DEMO, FRAMING AND PAINT).
- INFORMATIONAL BID 2: DIRECT DIGITAL CONTROL SYSTEM FOR HVAC

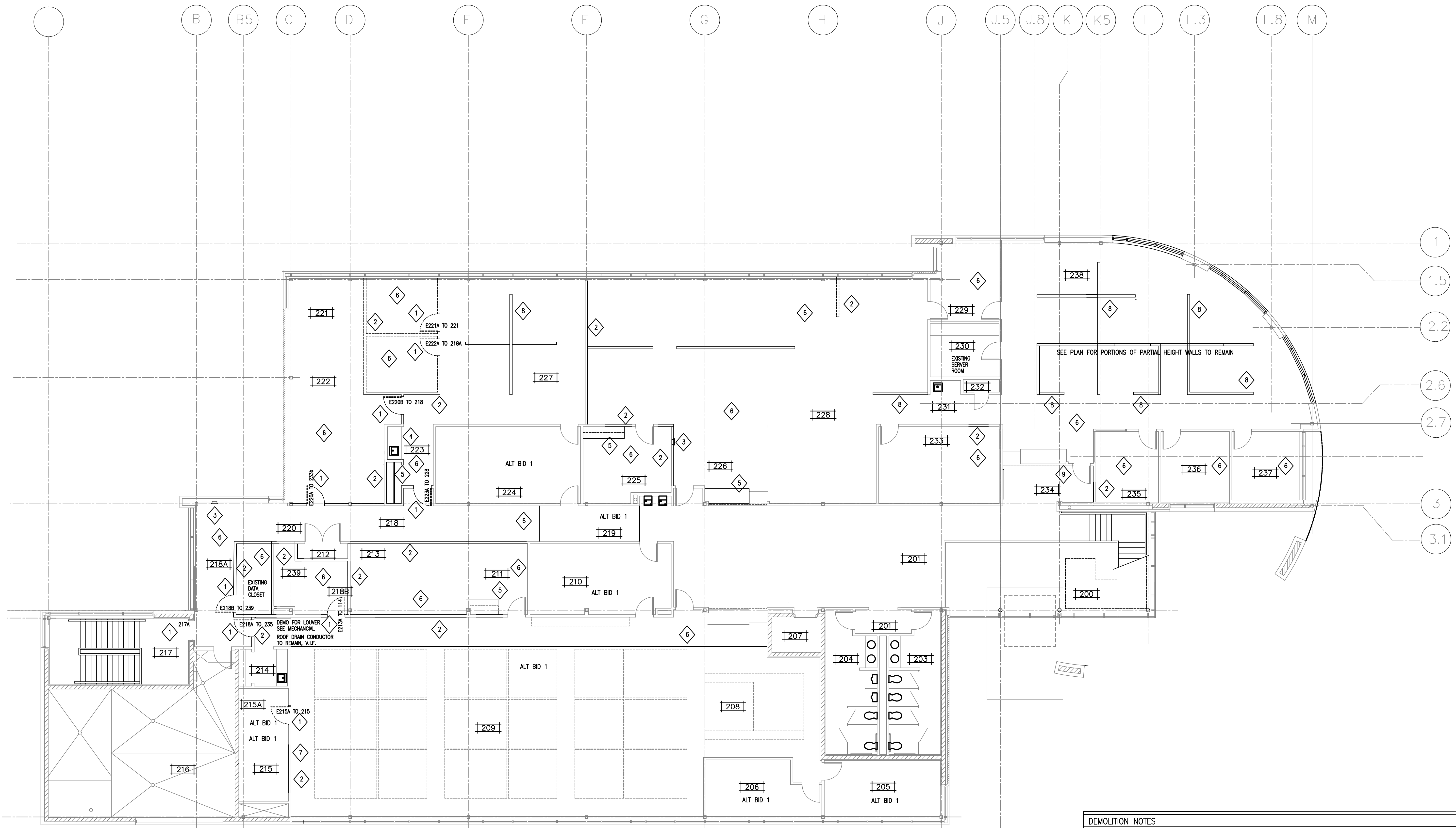
ABBREVIATIONS

- | | |
|----------|--------------------------------------|
| ADA | AMERICANS WITH DISABILITIES ACT |
| A.F.F. | ABOVE FINISHED FLOOR |
| AL | ALUMINUM |
| AP | ACCESS PANEL |
| CF | POLISHED CONCRETE RETROPLATE |
| CG | CORNER GUARD |
| CJ | CONTROL JOINT |
| CMU | CONCRETE MASONRY UNIT |
| CONC | CONCRETE |
| CPT | CARPET |
| CT | CERAMIC TILE |
| CUH | CABINET UNIT HEATER |
| EJ | EXPANSION JOINT |
| EW | ELECTRIC WATER COOLER |
| FD | FLOOR DRAIN |
| FO | FOUNDATION DRAIN SYSTEM FLUSHOUT |
| FRT | FIRE TREATED |
| FX-# | FIRE EXTINGUISHER AND TYPE |
| GWB | GYPSUM WALL BOARD |
| HM | HOLLOW METAL |
| MB | MARKER BOARD |
| TB | TACK BOARD |
| BB | BULLETIN BOARD |
| M.O. | MASONRY OPENING |
| N.I.C. | NOT IN CONTRACT |
| O.F.C.I. | OWNER FURNISHED CONTRACTOR INSTALLED |
| O.F.O.I. | OWNER FURNISHED OWNER INSTALLED |
| OPP | OPPOSITE |
| P.LAM. | PLASTIC LAMINATE |
| REV | REVERSE |
| RP | RESILIENT PANEL |
| R.O. | ROUGH OPENING |
| S.S. | STAINLESS STEEL |
| TZO | TERRAZZO |
| U.N.O. | UNLESS NOTED OTHERWISE |
| VCT | VINYL COMPOSITION TILE |
| WD | WOOD |
| WP | WATER PROOFING |
| WPT | WORK POINT |
- MAJOR USE & OCCUPANCY CLASSIFICATION: B
CONSTRUCTION CLASSIFICATION: IB
PROJECT AREA: 8,000 S.F.
SPRINKLERED
MAXIMUM EXIT ACCESS TRAVEL DISTANCE: 300'

ARCHITECTURAL SYMBOLS AND LEGEND

- X/XXX DETAIL REFERENCE SHEET REFERENCE DETAIL NUMBER
- X/XXX WALL SECTION REFERENCE SHEET REFERENCE DETAIL NUMBER
- X WALL SECTION REFERENCE SHEET REFERENCE DETAIL NUMBER
- X ELEVATION REFERENCE
- X PARTITION TYPE REF. SEE SHEET A7.0
- NEW WALLS
- WINDOW TYPES SEE A7.0
- 100 DOOR SWING w/NUMBER. SEE A7.0
- 100 EXISTING DOOR SWING w/NUMBER. SEE A7.0
- REVISIONS
- FX-1 RECESSED FIRE EXTINGUISHER
- FX-2 SEMI RECESSED FIRE EXTINGUISHER
- OFFICE 012 ROOM NAME & NUMBER SEE ROOM FIN SCHED SHEET A9.1
- REFLECTED CEILING PLAN SYMBOLS:
- GYPSUM WALL BOARD
- 2'X2' ACOUSTICAL CEILING TILE
- EXISTING GYPSUM WALL BOARD
- RECESSED DOWNLIGHT
- 2'X2' LIGHT FIXTURE, SEE ELECTRICAL
- 1'X LINEAR FLUORESCENT INDIRECT PENDANT FIXTURE. SEE ELECTRICAL
- TRACK MOUNTED FIXTURES, SEE ELECTRICAL
- 1'X4' LIGHT FIXTURE. SEE ELECTRICAL
- EXIT LIGHT, ARROW INDICATES DIRECTION PLACE CENTER OF 2x2' TILE
- HVAC DIFFUSER

ISSUED



1 SECOND FLOOR DEMOLITION PLAN
1/8"=1'-0"



DEMOLITION PLAN GENERAL NOTES

1. FIELD VERIFY ALL CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCY.
2. SEE MEP FOR ADDITIONAL INFORMATION.
3. REVIEW DEMOLITION IN FIELD OF GWB WALLS ADJACENT TO COLUMNS AND EXISTING ROOF DRAIN CONDUCTORS

DEMOLITION NOTES	
1 DEMO DOOR AND FRAME, SALVAGE DOOR AND HARDWARE AS NOTED FOR REINSTALLATION. SEE ALTERNATE BID 2 AND A7.0.	8 REMOVE FLOORING AND RESILIENT BASE FOR NEW FLOORING AND RUBBER BASE. SALVAGE MATERIAL FOR BASE BID REPAIR. REFER TO A9.1.
2 REMOVE EXISTING WALL IN ITS ENTIRETY OR REMOVE PORTIONS OF WALL FOR NEW OPENINGS.	7 REMOVE GLAZING AND FRAME
3 REMOVE AND SALVAGE FIRE EXTINGUISHER CABINET FOR REINSTALLATION IN NEW CASEWORK	8 REMOVE PARTIAL HEIGHT WALL. SALVAGE WOOD CAP FOR REINSTALLATION
4 REMOVE CASEWORK IN ITS ENTIRETY, SALVAGE SINK FOR REINSTALLATION IN NEW CASEWORK	9 REMOVE PORTION OF GWB WALL AS REQUIRED FOR INSTALLATION OF SALVAGED OVERHEAD COLLING DOOR. REMOVE WOOD BASE FOR INSTALLATION OF GWB FULL HEIGHT.
5 REMOVE CASEWORK. SALVAGE COAT ROD FOR REINSTALLATION.	

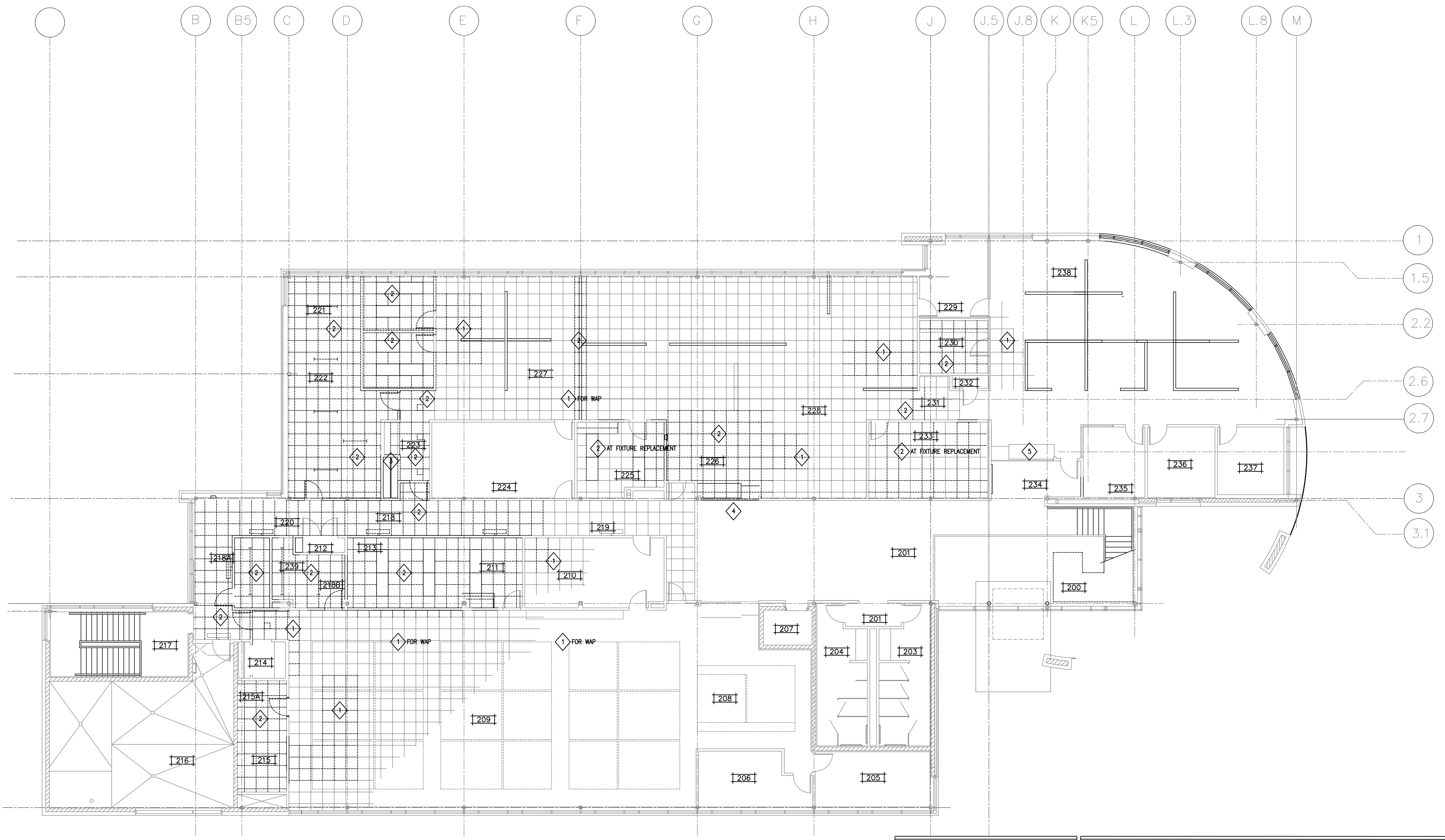
PROJECT
FEN OAK SECOND FLOOR RENOVATIONS

LYMAN F. ANDERSON AGRICULTURE AND CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

DRAWING
SECOND FLOOR DEMOLITION PLAN

DATE
04.30.15

ISSUED



1 SECOND FLOOR DEMO REFLECTED CEILING PLAN
1/8"=1'-0"



DEMOLITION PLAN GENERAL NOTES

1. FIELD VERIFY ALL CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCY.
2. SEE MEP FOR ADDITIONAL INFORMATION.
3. REFER TO MEP DRAWINGS FOR AREAS OF THE FIRST FLOOR CEILING TO BE REMOVED AND REPLACED TO MATCH EXISTING TO ALLOW ACCESS FOR WORK AND MODIFICATIONS TO THE FIRST FLOOR CONFERENCE ROOM.
4. CONFIRM EXISTING CEILING GRID LOCATION AND SUPPORTS. DEMO AND REINSTALL TO EXTENT REQUIRED FOR NEW WORK TO ALIGN WITH EXISTING GRID.

DEMOLITION NOTES

1 REMOVE AND REPLACE EXISTING ACT, REFER TO MEP FOR ADDITIONAL INFORMATION. TILES IN GOOD CONDITION ACCEPTABLE FOR REUSE.	4 REMOVE OVERHEAD CEILING DOOR, SALVAGE FOR REINSTALLATION. DEMO PORTION OF GWB SOFFIT.
2 REMOVE AND SALVAGE EXISTING ACT. TILES IN GOOD CONDITIONS ACCEPTABLE FOR REUSE.	5 REMOVE OVERHEAD CEILING DOOR, TURN OVER TO OWNER. REMOVE GWB SOFFIT AND JAMBS AS REQUIRED FOR INSTALLATION OF SALVAGED OVERHEAD GRILL.
3 REMOVE EXISTING GWB SOFFIT.	

PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

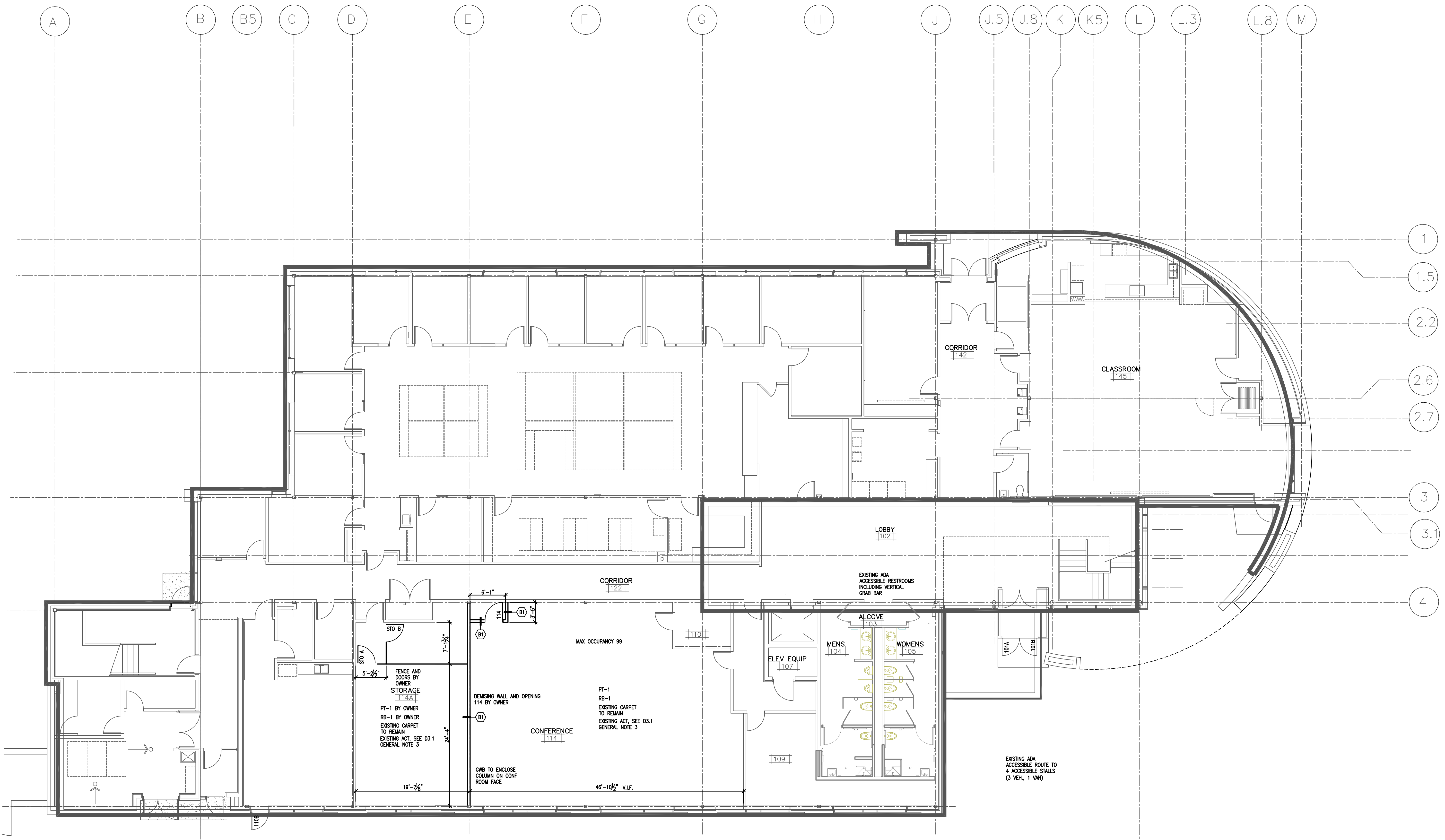
LYMAN F. ANDERSON
AGRICULTURE AND
CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

DRAWING
SECOND FLOOR DEMO
REFLECTED CEILING PLAN

DATE
04.30.15

D3.1

ISSUED



1 FIRST FLOOR PLAN
1/8"=1'-0"



PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

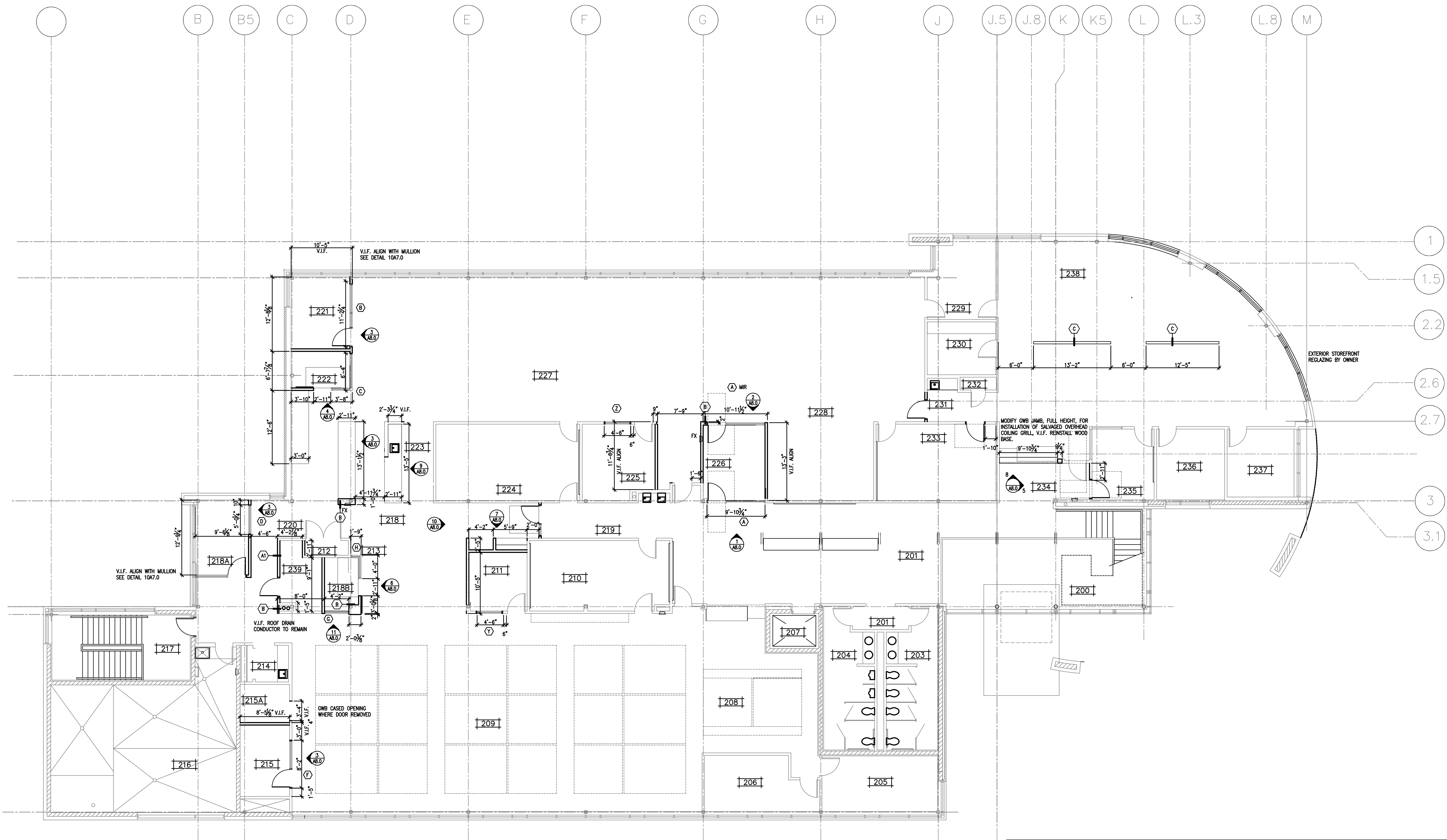
LYMAN F. ANDERSON
AGRICULTURE AND
CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

DRAWING
FIRST FLOOR PLAN

DATE
04.30.15

A2.0

ISSUED



1 SECOND FLOOR PLAN
1/8"=1'-0"



PLAN GENERAL NOTES	
1. FIELD VERIFY ALL CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCY.	4. REVIEW ALL COLUMN WRAP LOCATIONS IN FIELD WITH ARCHITECT.
2. SEE MECHANICAL AND ELECTRICAL AND COORDINATE RECEPTACLE AND EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH IN.	5. CONFIRM FRAMING REQUIREMENTS FOR REINSTALLED FIRE EXTINGUISHER CABINETS PRIOR TO INSTALLATION OF FRAMING. MOUNT SO TOP OF EXTINGUISHER IS NO HIGHER THAN 4 FEET ABOVE FINISHED FLOOR.
3. ALL EXISTING GNB WALLS AND SOFFITS TO REMAIN ARE TO BE PATCHED AND TEXTURED WHERE DAMAGED BY DEMOLITION OR ADJACENT NEW CONSTRUCTION.	6. SEE 01.0 FOR PHASED CONSTRUCTION PLAN

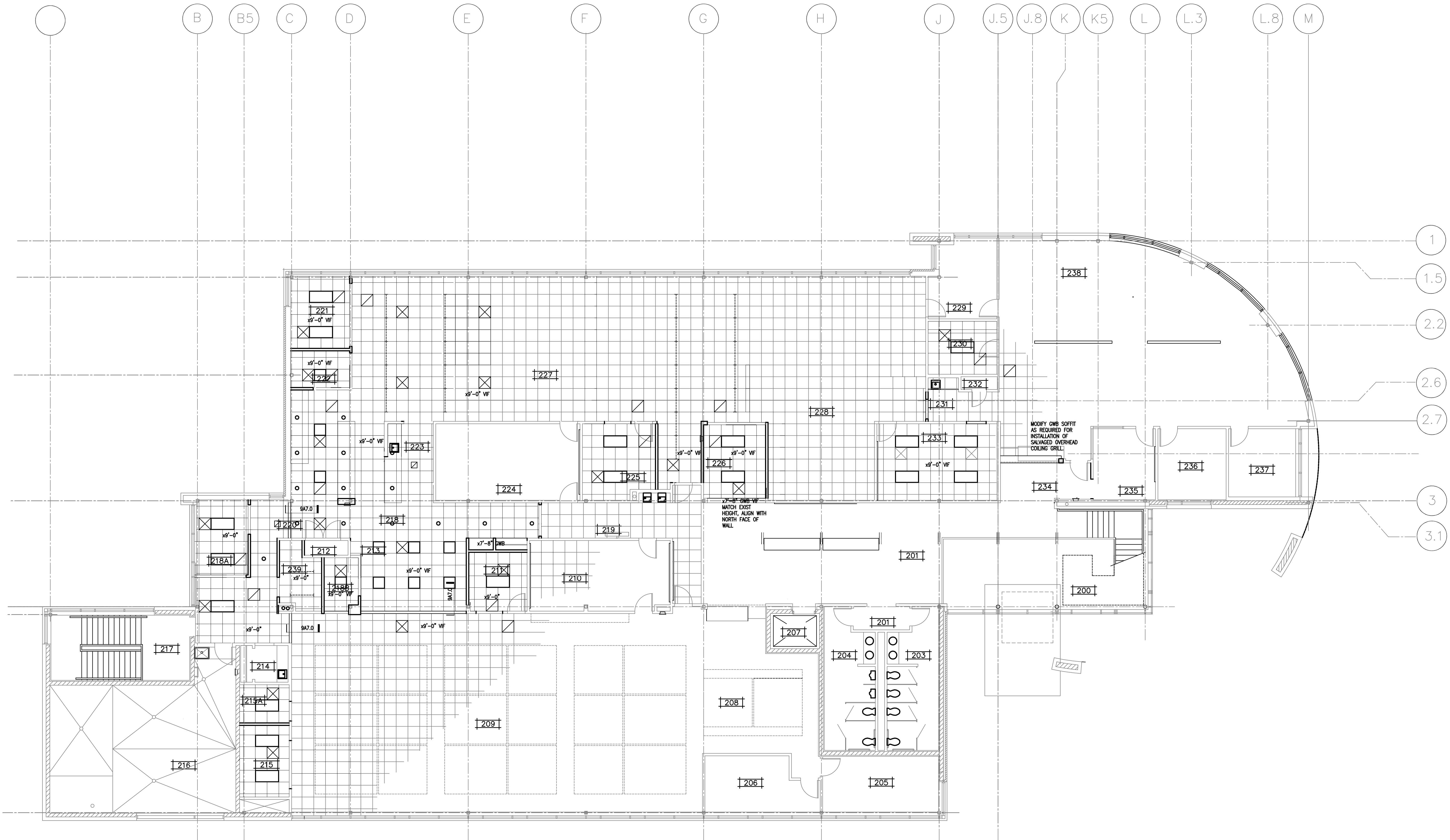
PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

LYMAN F. ANDERSON
AGRICULTURE AND
CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

DRAWING
SECOND FLOOR PLAN

DATE
04.30.15

ISSUED



1 SECOND FLOOR REFLECTED CEILING PLAN
1/8"=1'-0"



PLAN GENERAL NOTES

1. FIELD VERIFY ALL CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCY.
2. SEE MECHANICAL AND ELECTRICAL AND COORDINATE.
3. ALL EXISTING GNB WALLS AND SOFFITS TO REMAIN ARE TO BE PATCHED AND TEXTURED WHERE DAMAGED BY DEMOLITION OR ADJACENT NEW CONSTRUCTION.
4. REVIEW ALL COLUMN WRAP LOCATIONS IN FIELD WITH ARCHITECT.
5. CONFIRM EXISTING CEILING GRID LOCATION AND SUPPORTS. DEMO AND REINSTALL TO EXTENT REQUIRED FOR NEW WORK TO ALIGN WITH EXISTING GRID.

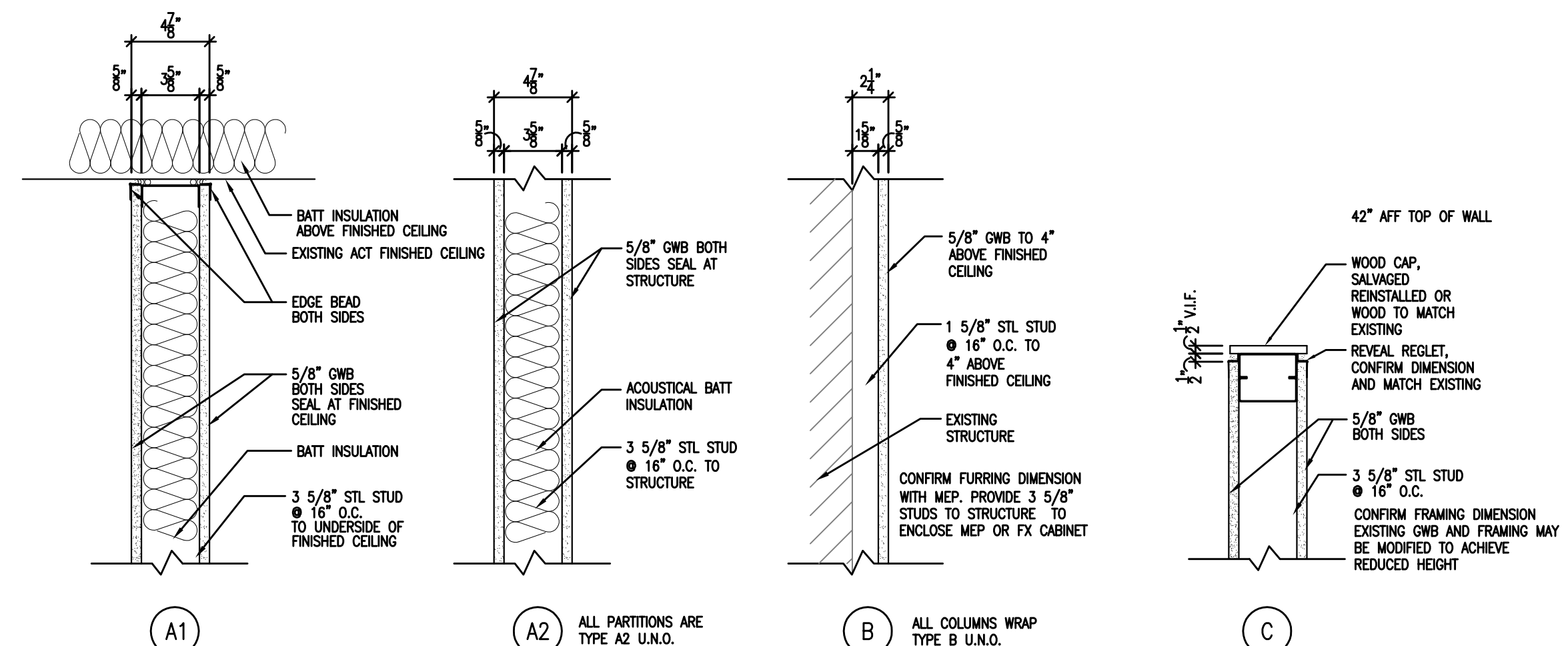
PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

LYMAN F. ANDERSON
AGRICULTURE AND
CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

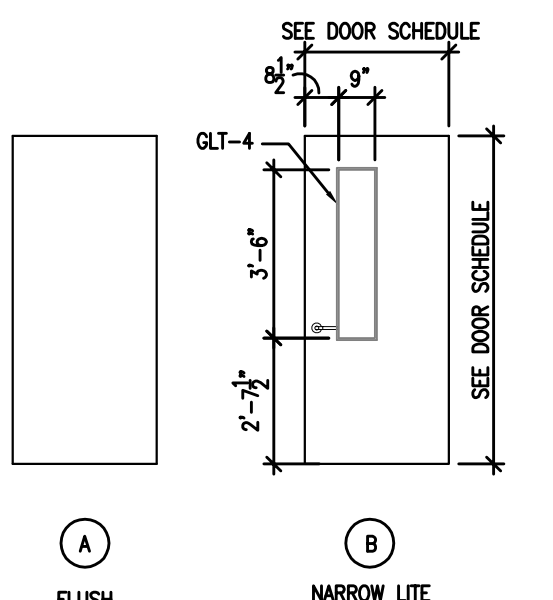
DRAWING
SECOND FLOOR REFLECTED
CEILING PLAN

DATE
04.30.15

A3.1

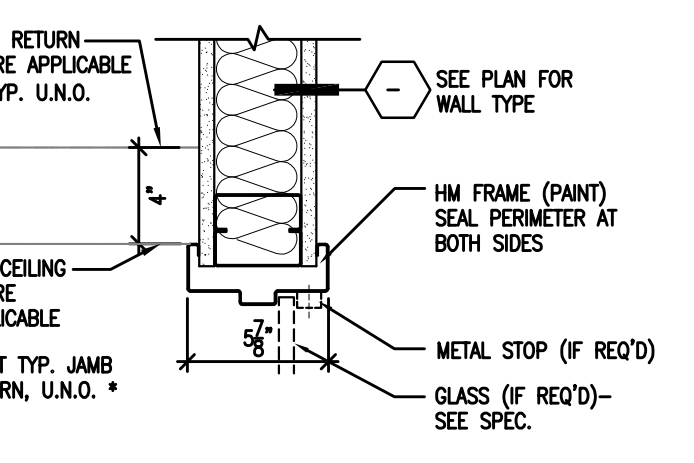


1 PARTITION TYPES
1 1/2"=1'-0"

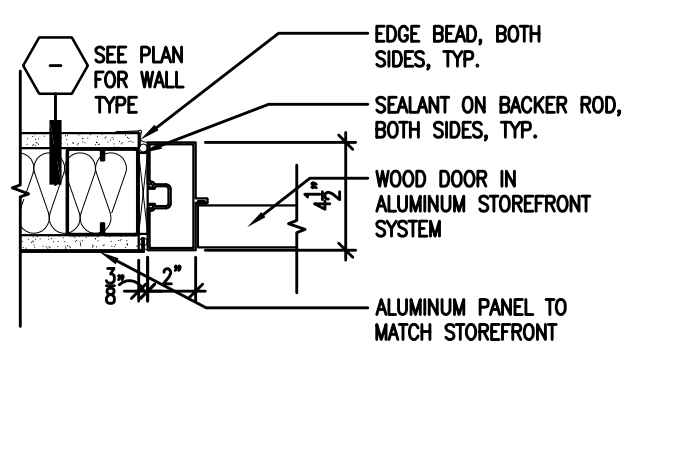


2 DOOR ELEVATIONS
1/4"=1'-0"

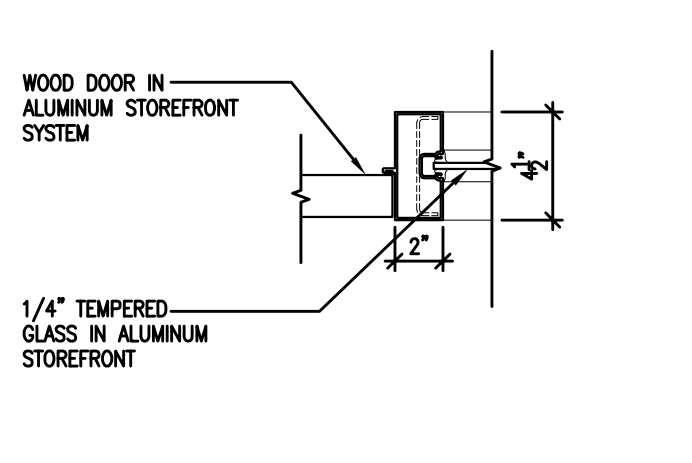
3 WINDOW ELEVATIONS
1/4"=1'-0"



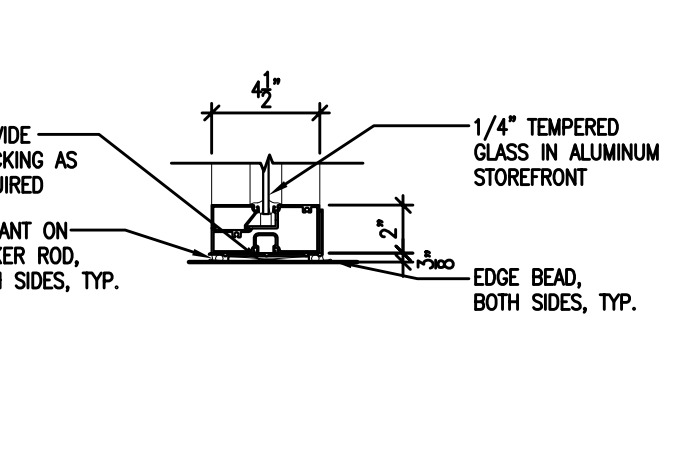
4 HM DOOR JAMB/HEAD DETAIL
1 1/2"=1'-0"



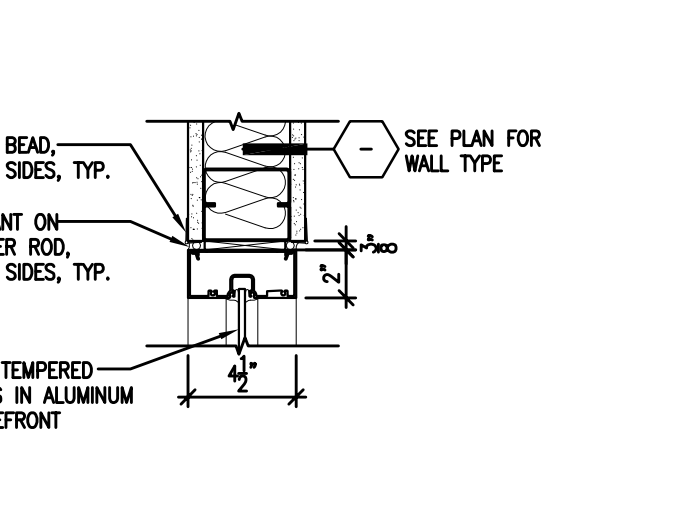
5 ALUM JAMB/HEAD DETAIL
1 1/2"=1'-0"



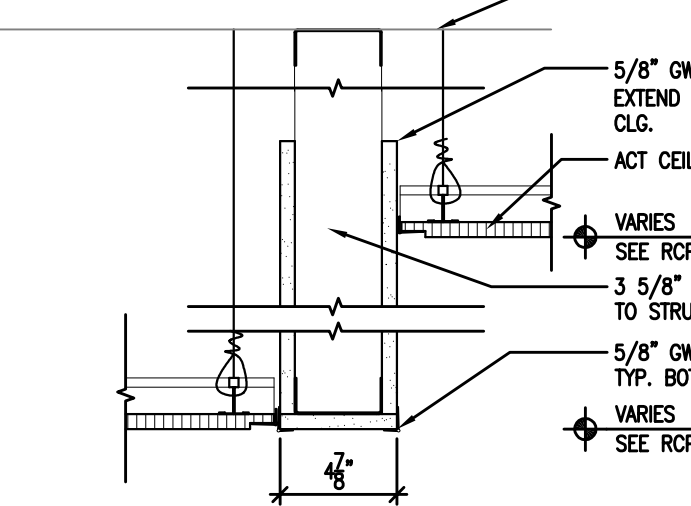
6 ALUM JAMB DETAIL
1 1/2"=1'-0"



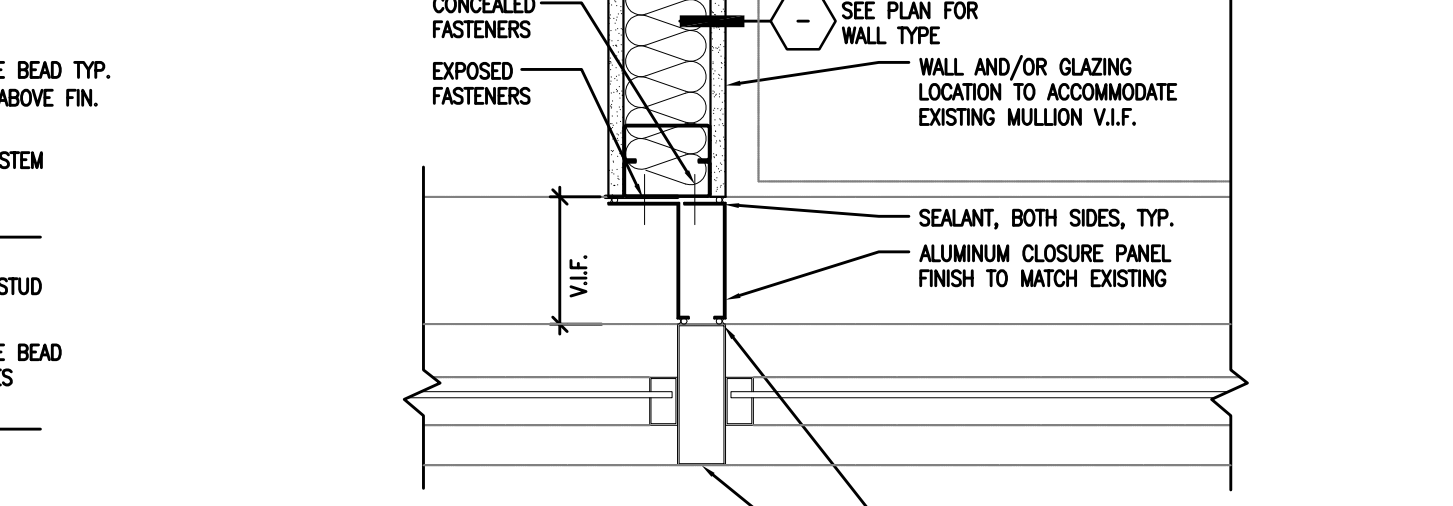
7 ALUM BASE DETAIL
1 1/2"=1'-0"



8 ALUM JAMB/HEAD DETAIL
1 1/2"=1'-0"



9 SOFFIT DETAIL
1 1/2"=1'-0"



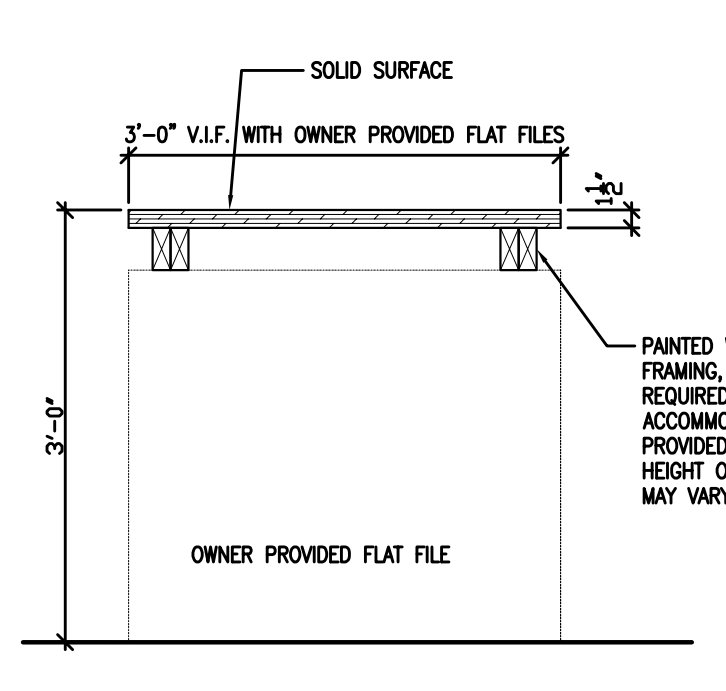
10 DETAIL AT EXTERIOR MULLION
1 1/2"=1'-0"

DOOR AND FRAME SCHEDULE												
DOOR NO.	QNTY	SIZE			MATERIAL	ELEV	GLASS	LOUVER OR UNDERCUT	FRAME			REMARKS
		W	H	T					MATL	ELEV	DETAILS	
									HEAD	JAMB	SILL	
101A	1	3-0	7-8	1 3/4"	EXIST AL	2	EXIST		EXIST AL			10
101B	1	3-0	7-8	1 3/4"	EXIST AL	2	EXIST		EXIST AL			01
110B	1	3-0	7-0	1 3/4"	EXIST AL	2	EXIST		EXIST AL			01
STO A					FENCE							
STO B					FENCE							
114	1	3-0	7-10	1 3/4"	EXIST WD	1			EXIST HM			10
208A	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		EXIST HM			09
210A	1	3-0	7-10	1 3/4"	EXIST WD	1			EXIST HM			12
215	1	3-0	7-10	1 3/4"	EXIST WD	1			HM			03
217A	1	3-0	7-10	1 3/4"	WOOD	3	GLT-6	-	HM		45 MIN	02
218	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		HM			04
224B	1	3-0	7-10	1 3/4"	EXIST WD	1			EXIST HM			12
218A	1	3-0	7-10	1 3/4"	EXIST WD	1			AL			10
218B	1	3-0	7-10	1 3/4"	WOOD	1	-	-	-			06
221	1	3-0	7-10	1 3/4"	EXIST WD	1			AL			10
222	1	3-0	7-10	1 3/4"	WOOD	1	-	-	-			06
226A	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		EXIST HM			09
226a	1	3-0	7-10	1 3/4"	WOOD	1			AL			05
226b	1	3-0	7-10	1 3/4"	WOOD	1			AL			05
228	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		HM			10
233A	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		HM			07
233b	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		HM			10
234A	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		EXIST HM			09
235	1	3-0	7-10	1 3/4"	EXIST WD	3	EXIST		HM			10
239	1	3-0	7-10	1 3/4"	EXIST WD	1	-	-	HM			10

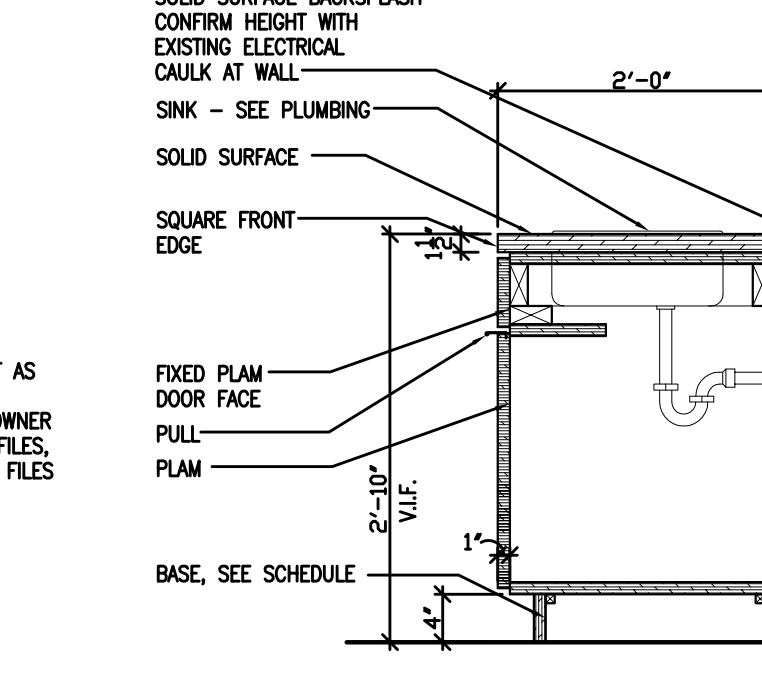
GENERAL NOTES:
 1. PAINT ALL HM FRAMES/DOORS TO MATCH OWNER'S SAMPLE.
 2. PAINT ALL EXISTING HM FRAMES/DOORS IN PROJECT AREA TO MATCH OWNER'S SAMPLE.
 3. STAIN ALL WOOD DOORS TO MATCH OWNER'S SAMPLE.
 4. REFER TO SHEET A7.0 FOR HOLLOW METAL FRAME ELEVATIONS.
 5. FIELD VERIFY ALL DIMENSIONS.

LEGEND:
 AL ALUMINUM
 HM HOLLOW METAL
 WD WOOD
 UC UNDERCUT

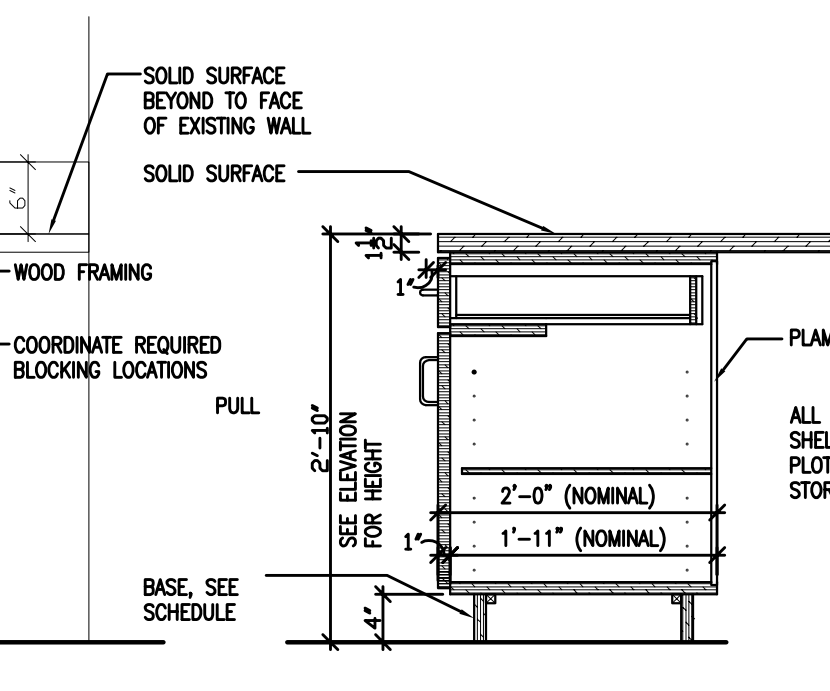
REMARKS:
 1. ABOVE DIMENSIONS ARE APPROXIMATE, FIELD VERIFY ALL EXISTING DOORS PRIOR TO SHOP DRAWING SUBMITTAL OF HM AND ALUMINUM FRAMES. ALL MODIFICATIONS BY CONTRACTOR FOR SCHEDULED HARDWARE FUNCTION.



11 CASEWORK SECTION
3/4"=1'-0"



12 CASEWORK SECTION
3/4"=1'-0"



13 CASEWORK SECTION
3/4"=1'-0"

ISSUED

PROJECT

FEN OAK SECOND FLOOR RENOVATIONS

LYMAN F. ANDERSON
AGRICULTURE AND
CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

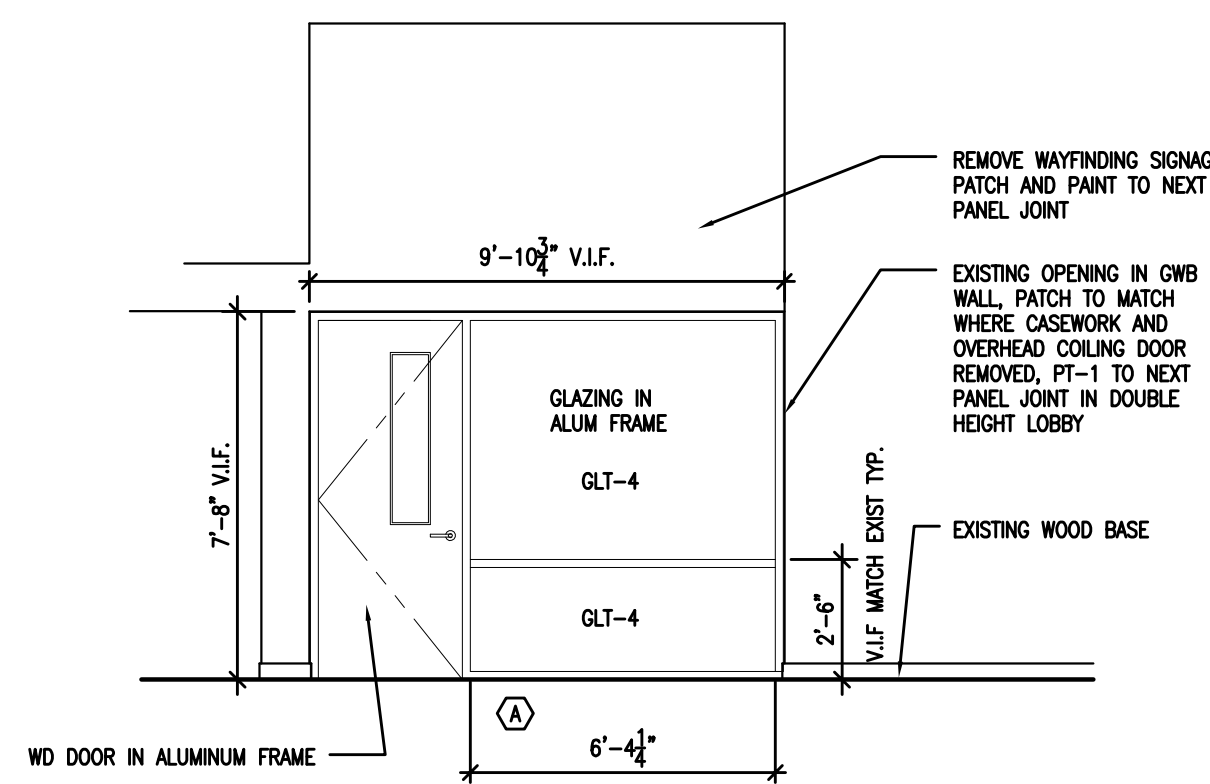
DRAWING

INTERIOR ELEVATIONS

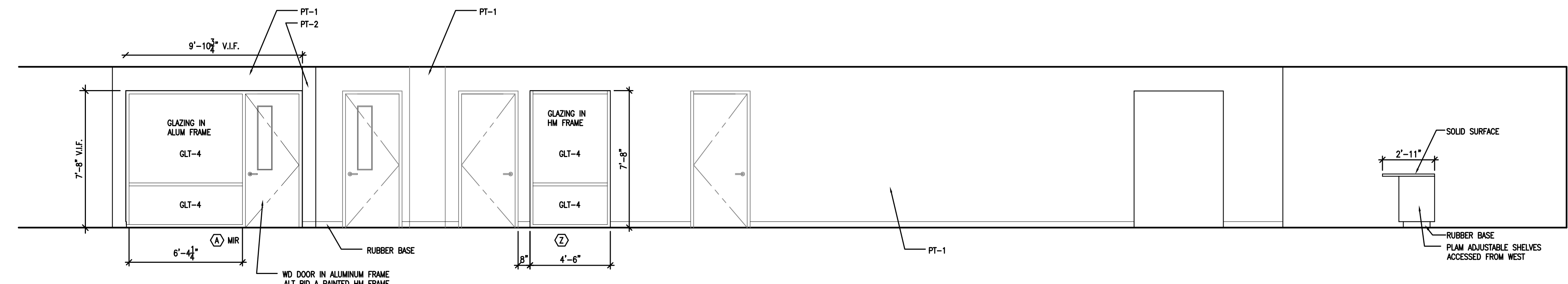
DATE

04.30.15

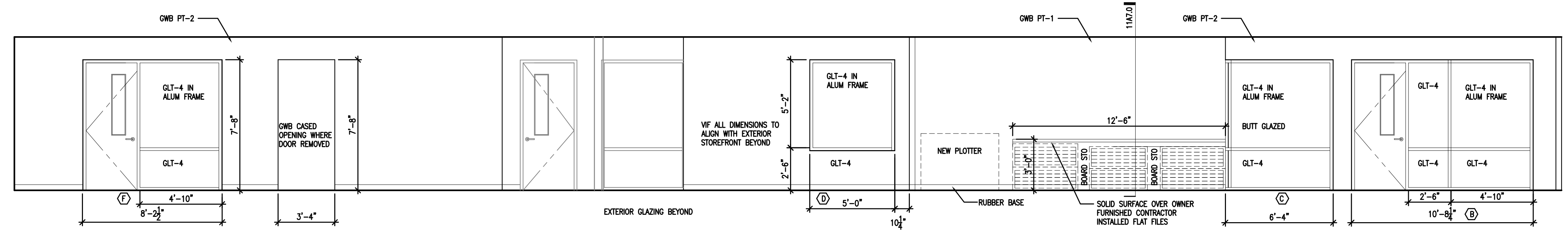
A8.0



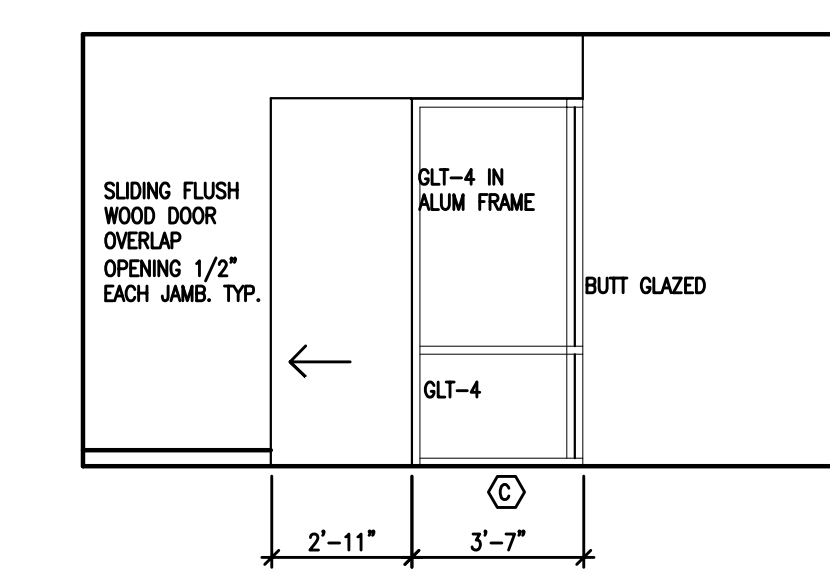
1 INTERIOR ELEVATION
1/4"=1'-0"



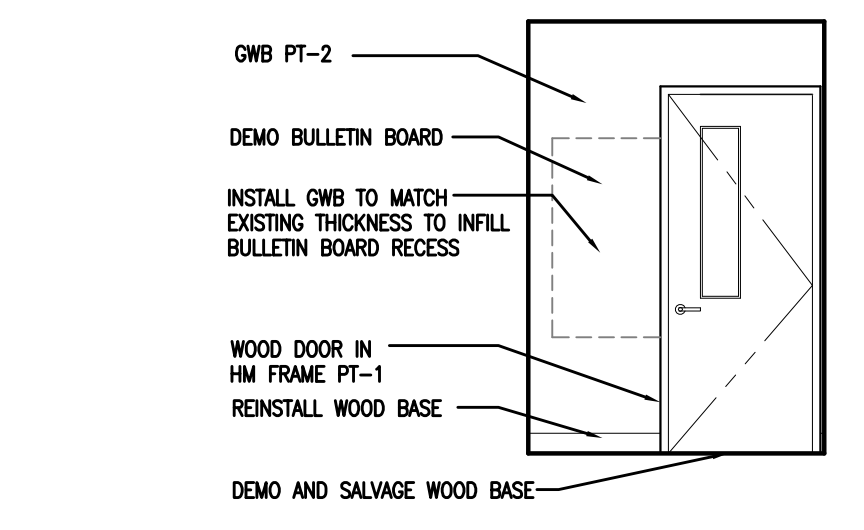
2 INTERIOR ELEVATION
1/4"=1'-0"



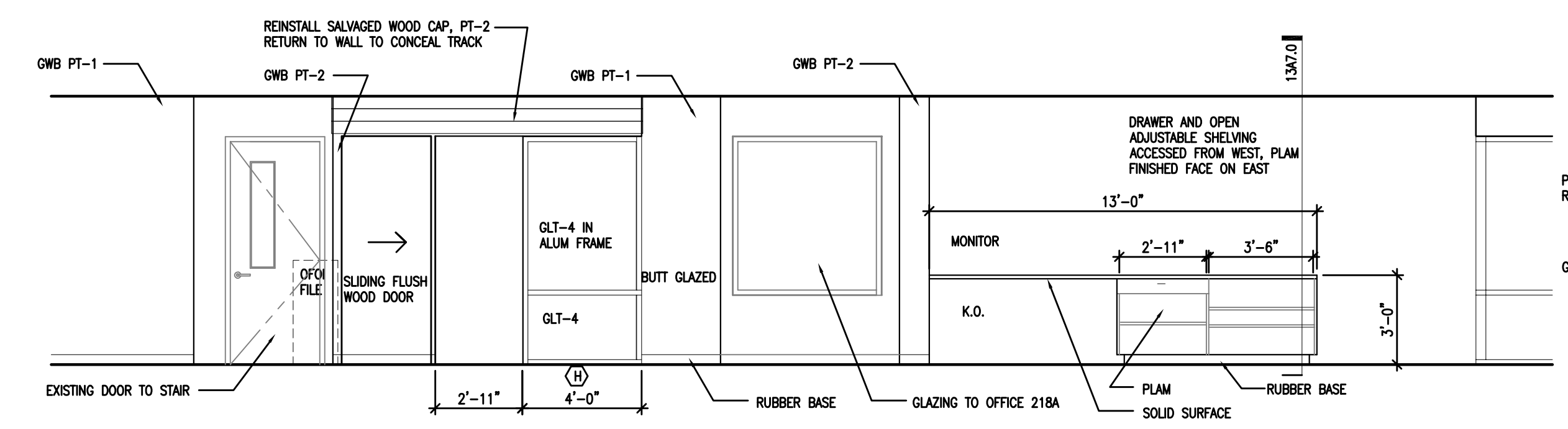
3 INTERIOR ELEVATION
1/4"=1'-0"



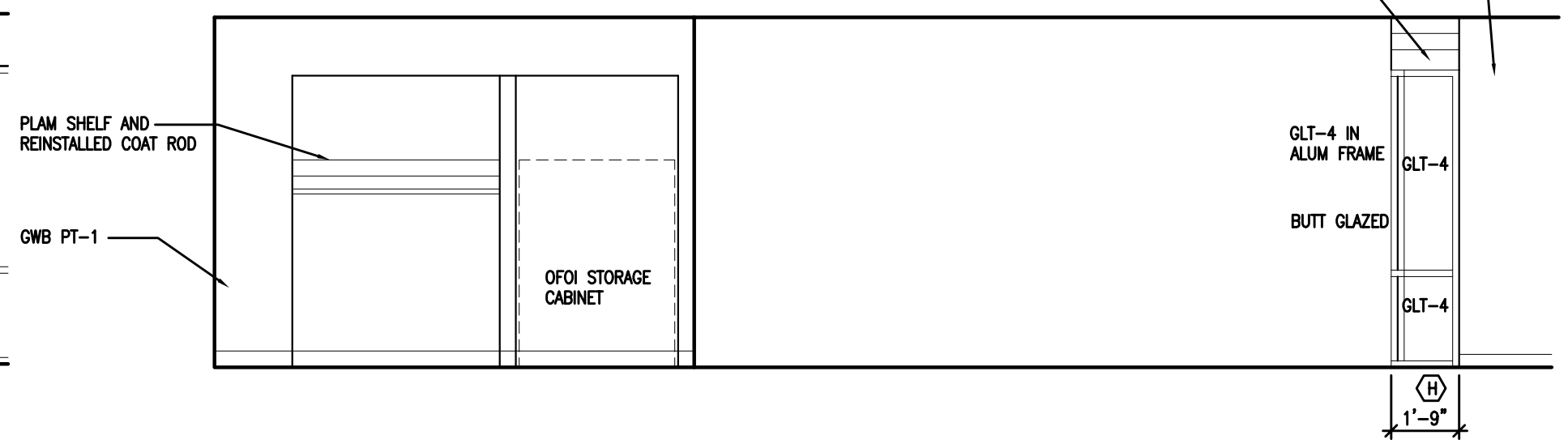
4 INTERIOR ELEVATION
1/4"=1'-0"



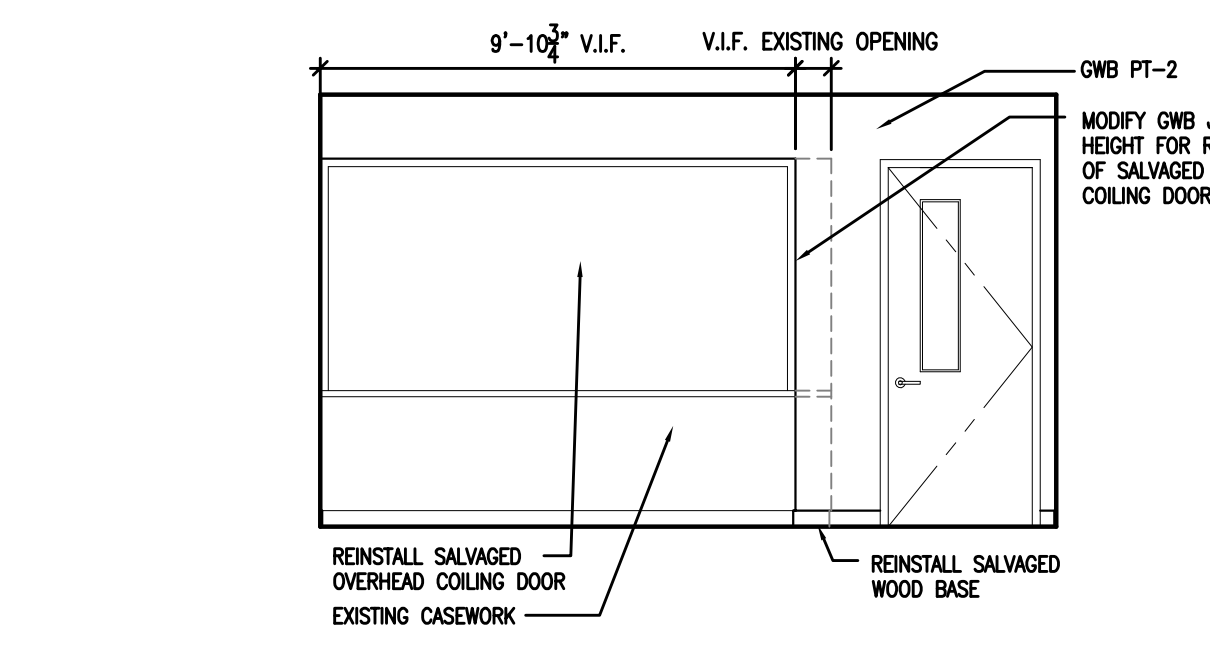
5 INTERIOR ELEVATION
1/4"=1'-0"



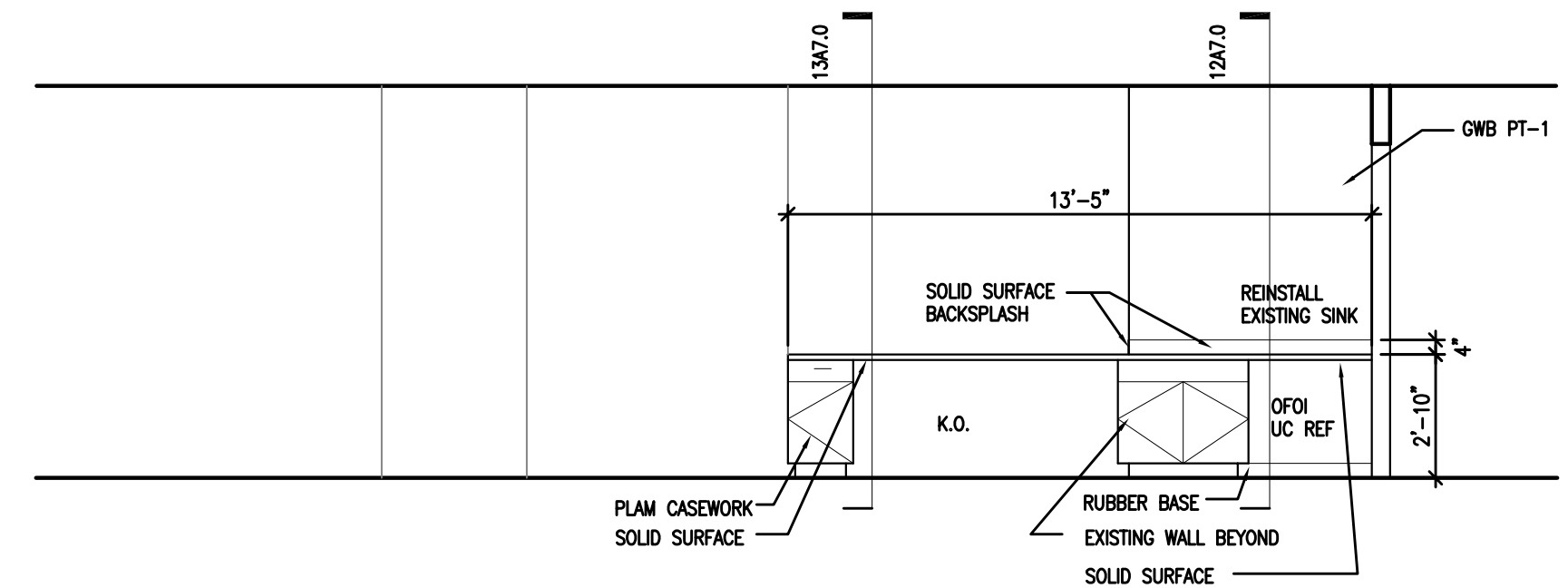
6 INTERIOR ELEVATION
1/4"=1'-0"



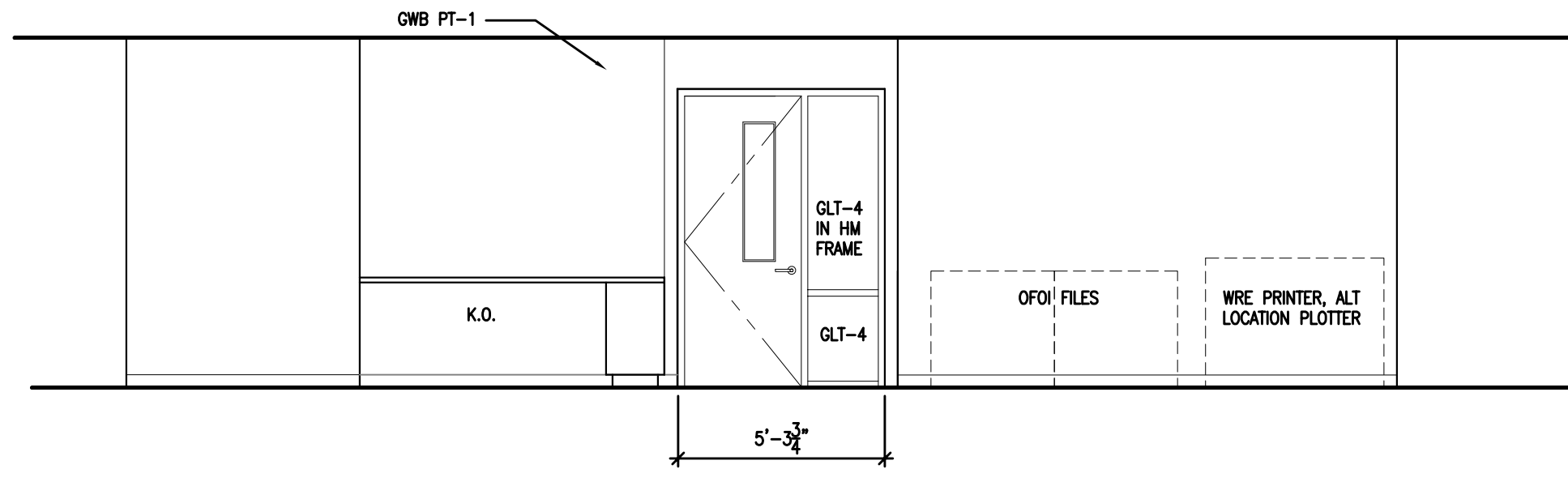
7 INTERIOR ELEVATION
1/4"=1'-0"



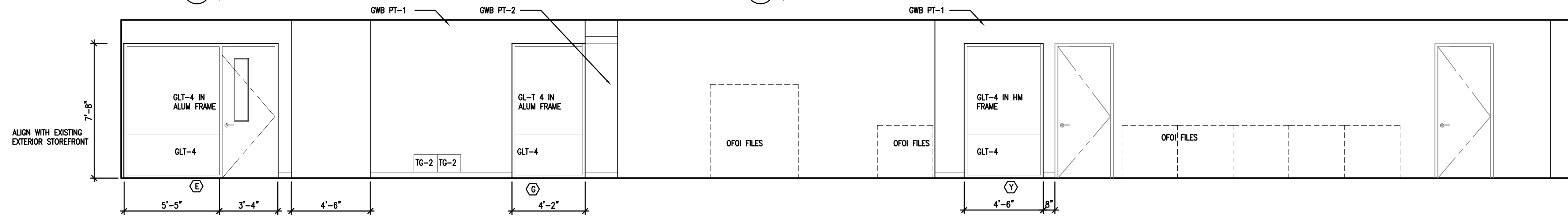
8 INTERIOR ELEVATION
1/4"=1'-0"



9 INTERIOR ELEVATION
1/4"=1'-0"

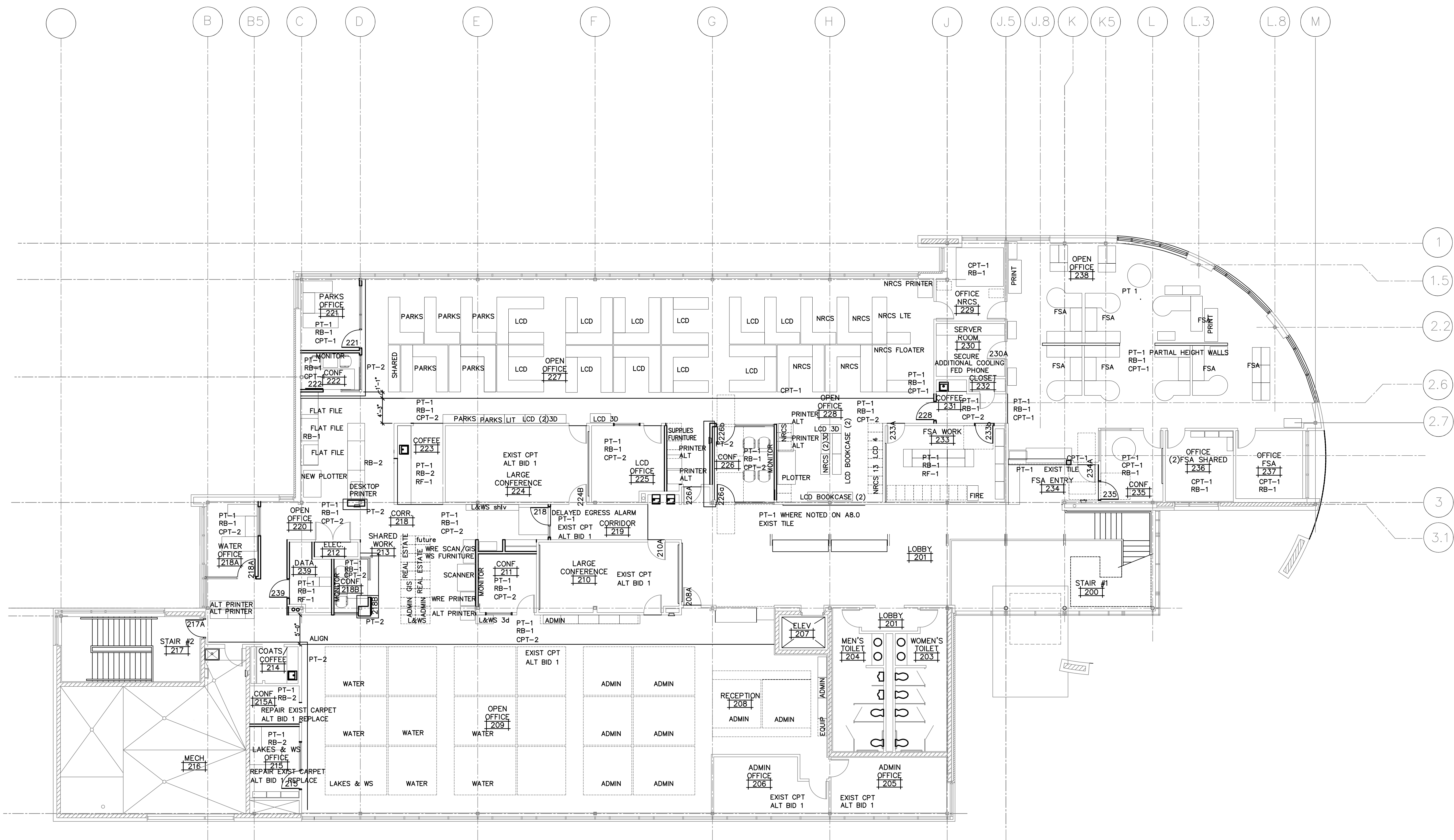


10 INTERIOR ELEVATION
1/4"=1'-0"



11 INTERIOR ELEVATION
1/4"=1'-0"

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1 SECOND FLOOR FINISH PLAN AND ILLUSTRATIVE FURNITURE PLAN
1/8"=1'-0"

PLAN GENERAL NOTES	
1. FIELD VERIFY ALL CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCY.	4. REVIEW ALL COLUMN WRAP LOCATIONS IN FIELD WITH ARCHITECT.
2. CONCEPTUAL SYSTEMS FURNITURE LAYOUT SHOWN. CONFIRM FURNITURE LAYOUT WITH OWNER AND COORDINATE POKE THRU DEVICE LOCATIONS.	5. CONFIRM FRAMING REQUIREMENTS FOR REINSTALLED FIRE EXTINGUISHER CABINETS PRIOR TO INSTALLATION OF FRAMING. MOUNT SO TOP OF EXTINGUISHER IS NO HIGHER THAN 4 FEET ABOVE FINISHED FLOOR.
3. ALL EXISTING GWB WALLS AND SOFFITS TO REMAIN ARE TO BE PATCHED AND TEXTURED WHERE DAMAGED BY DEMOLITION OR ADJACENT NEW CONSTRUCTION.	5. SEE 01.0 FOR PHASED CONSTRUCTION PLAN

PROJECT
FEN OAK SECOND FLOOR RENOVATIONS

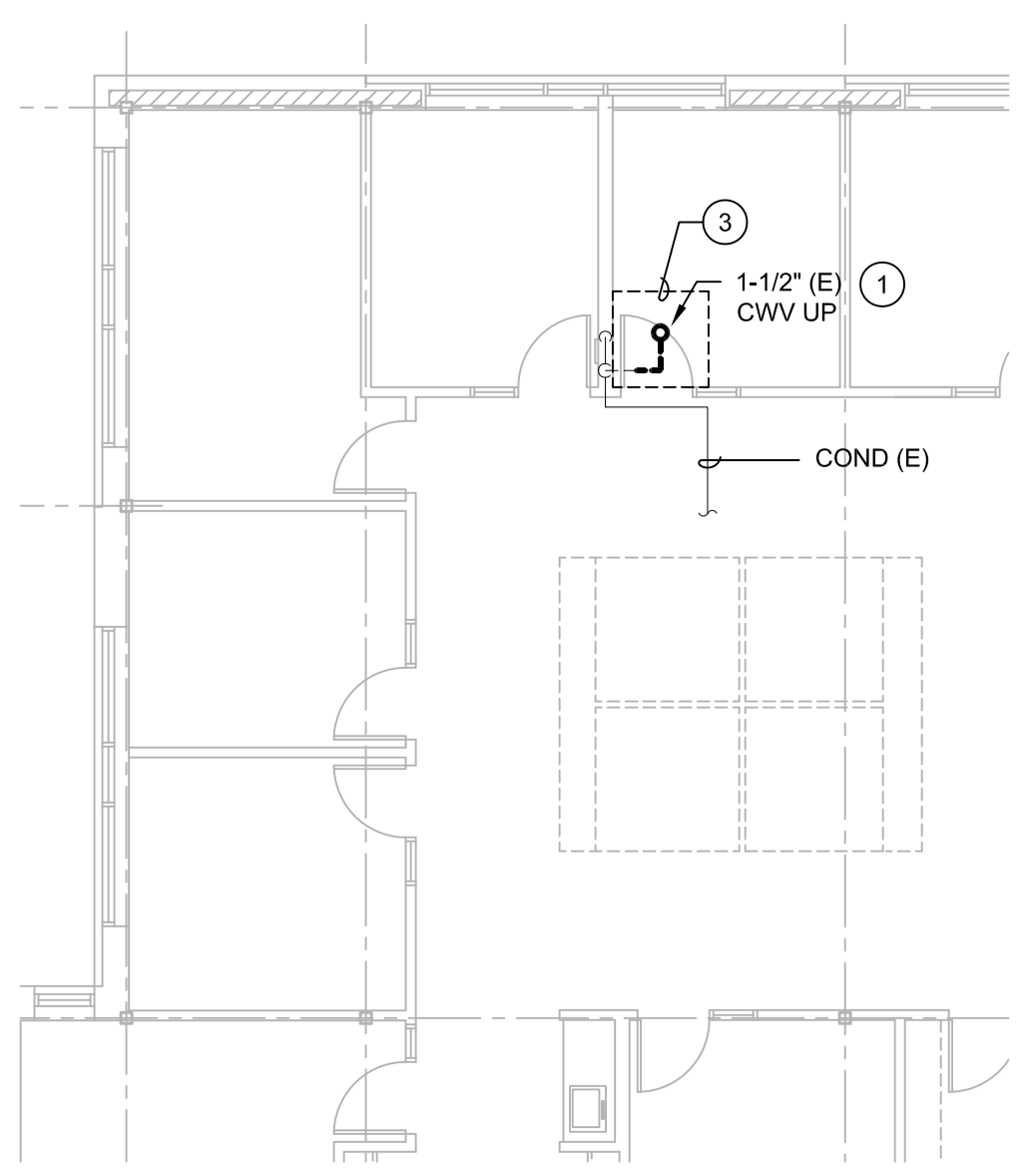
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MADISON, WI

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SECOND FLOOR FINISH PLAN AND ILLUSTRATIVE FURNITURE PLAN
DATE
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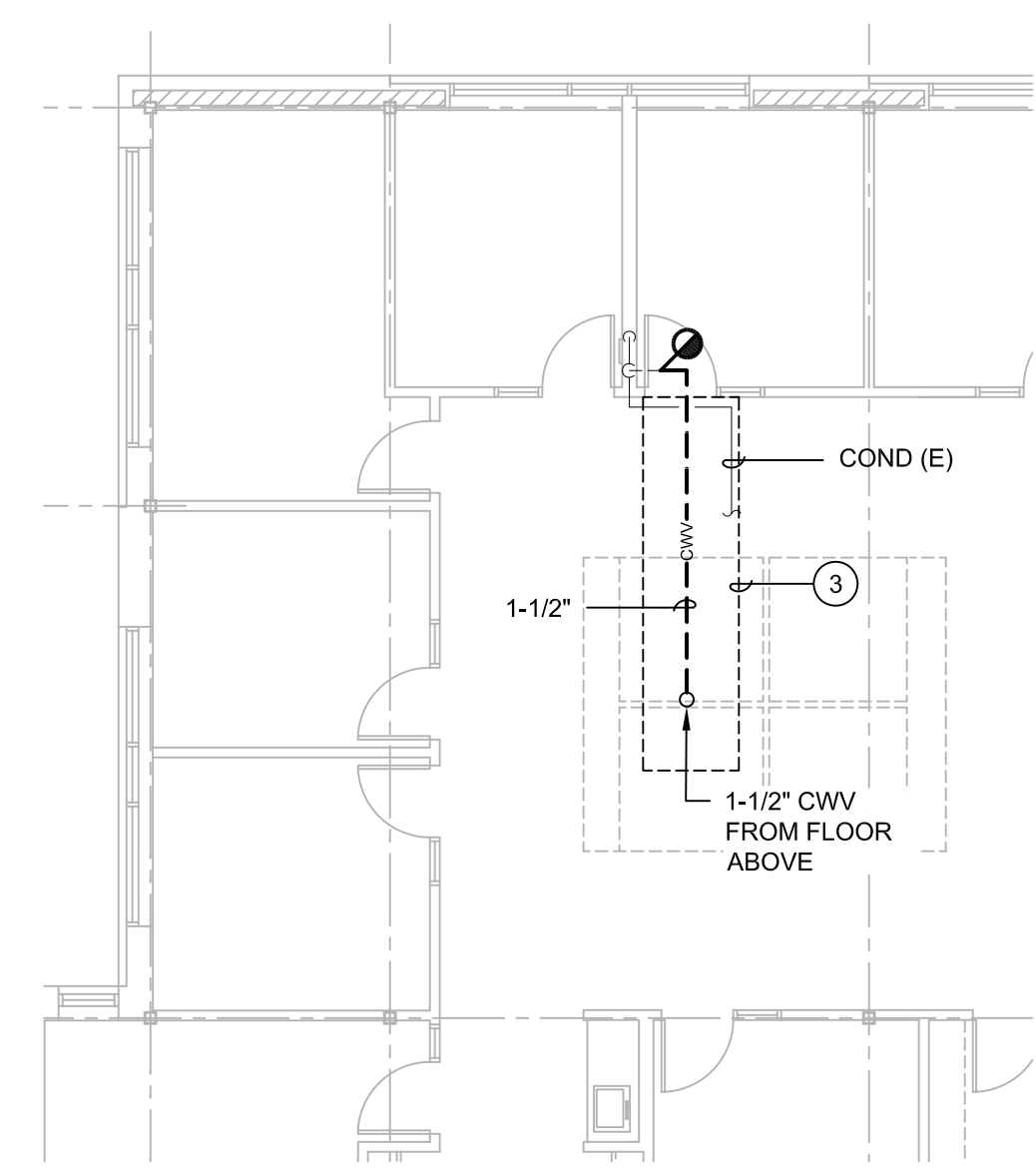
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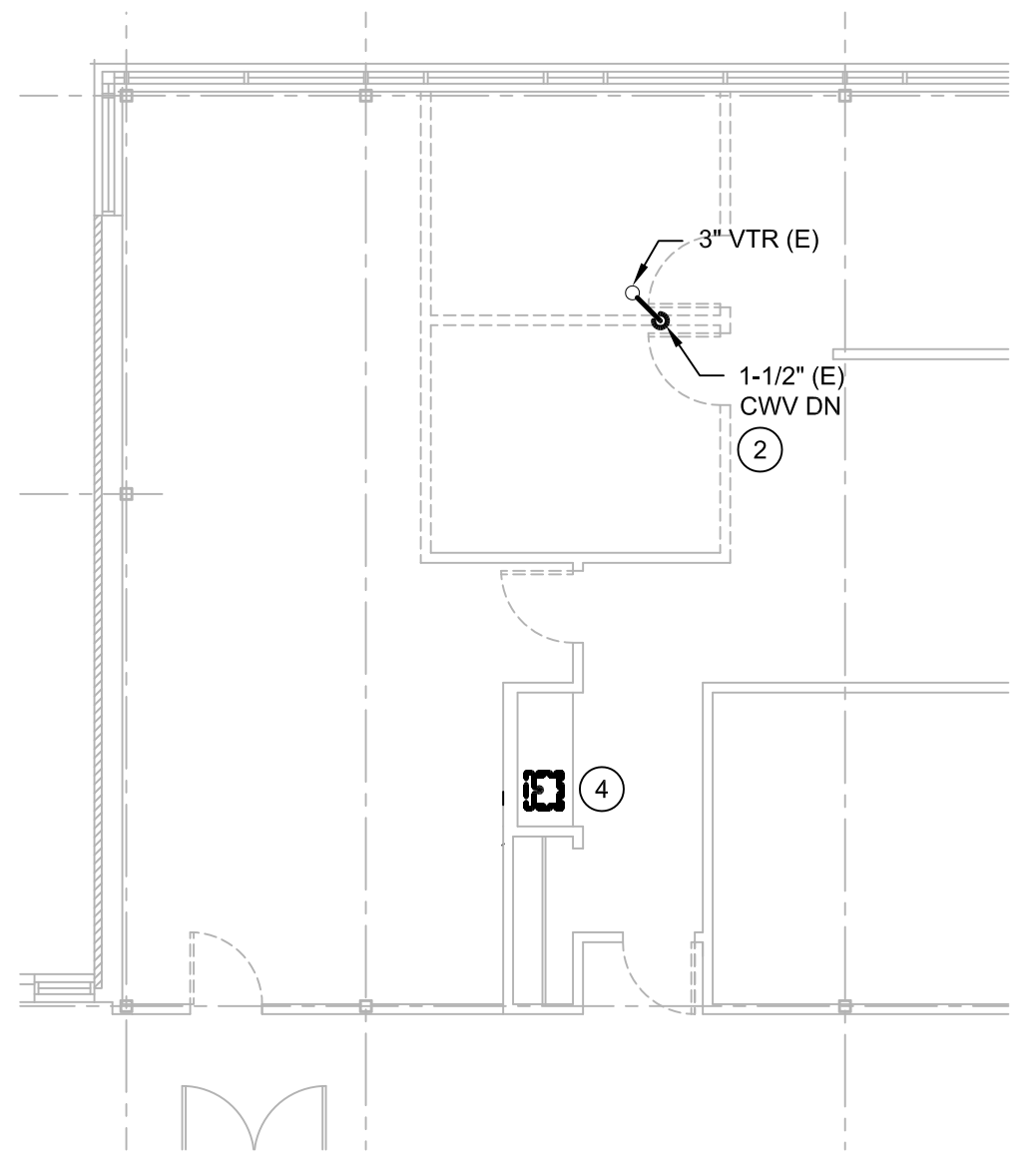
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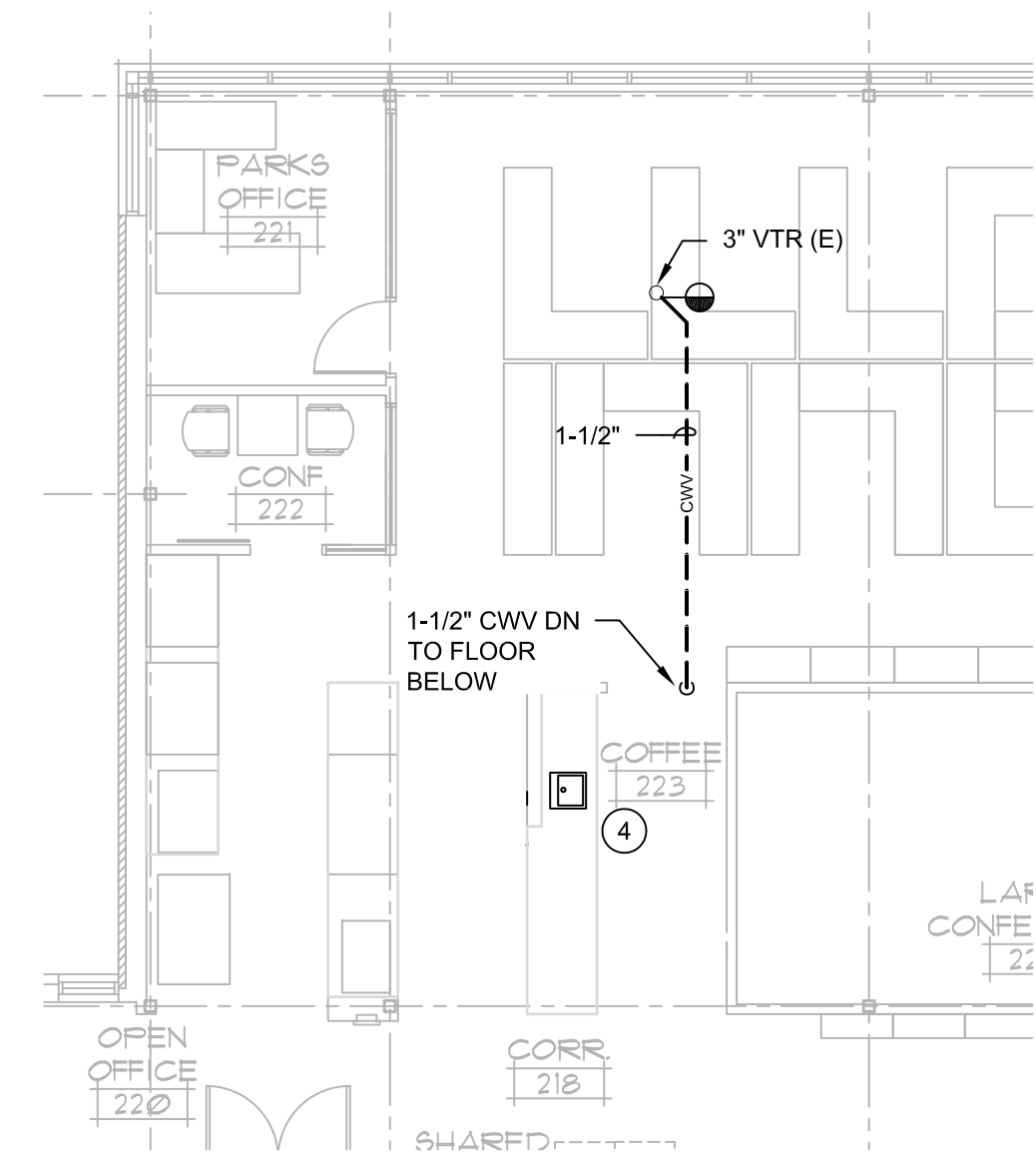
1
PARTIAL FIRST FLOOR
DEMOLITION PLAN - PLUMBING
SCALE: 1/8"=1'-0"



2
PARTIAL FIRST FLOOR
NEW WORK PLAN - PLUMBING
SCALE: 1/8"=1'-0"



3
PARTIAL SECOND FLOOR
DEMOLITION PLAN - PLUMBING
SCALE: 1/8"=1'-0"



4
PARTIAL SECOND FLOOR
NEW WORK PLAN - PLUMBING
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. PC SHALL VISIT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. PC SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. DEMOLITION DRAWINGS ARE DIAGRAMMATICAL IN NATURE. HC IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCOMPLISH ALL NEW WORK REQUIREMENTS.
2. GC RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILING TO PERFORM PLUMBING PROJECT WORK. PC TO FIELD VERIFY AND COORDINATE CEILINGS REQUIRED FOR REMOVAL. COORDINATE CEILING REMOVAL WITH OTHER TRADES.

KEYED NOTES:

- 1 REMOVE CLEAR WATER VENT PIPE FROM FLOOR ABOVE TO EXISTING HUB DRAIN.
- 2 REMOVE CLEAR WATER VENT FROM BELOW UP TO EXISTING 3" VTR. GC TO PATCH FLOOR OPENING.
- 3 APPROXIMATE LOCATION OF CEILING REMOVAL REQUIRED FOR PLUMBING WORK.
- 4 DISCONNECT AND REMOVE EXISTING SINK AND FIXTURE. REINSTALL EXISTING SINK AND FIXTURE IN NEW COUNTER. RECONNECT ALL PIPING.

PLUMBING SPECIFICATIONS:

PIPE PENETRATIONS:

FIRE, SMOKE AND FIRE/SMOKE RATED SURFACES:
3M CP 25N/S OR CP 25S/L CAULK, 3M FS 195 WRAP/STRIP WITH RESTRICTING COLLAR, 3M CS 195 COMPOSITE SHEET, PIPE SHIELDS INC. SERIES F FIRE BARRIER KITS, PROSET SYSTEMS FIRE RATED FLOOR AND WALL PENETRATIONS, INSTA_FOAM PRODUCTS INSTA_FIRE SEAL FIRESTOP FOAM OR DOW CORNING FIRE STOP SYSTEM.

ALL FIRE STOPPING SYSTEMS SHALL BE PROVIDED BY THE SAME MANUFACTURER.

UL LISTED OR TESTED BY INDEPENDENT TESTING LABORATORY, APPROVED BY STATE AND LOCAL CODE JURISDICTIONS.

USE PRODUCT THAT HAS A RATING NOT LESS THAN RATING OF WALL OR FLOOR BEING PENETRATED. REFERENCE ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF FIRE AND/OR SMOKE RATED WALLS AND FLOORS.

SLEEVES IN CONCRETE TO BE SCHEDULE 40 STEEL PIPE WITH INTEGRAL WATER STOP UNLESS FIRE STOP MATERIAL USED INCLUDES A SLEEVE THAT IS AN INTEGRAL PART OF RATED ASSEMBLY.

USE FIRESTOP PUTTY, CAULK SEALANT, INTUMESCENT WRAPSTRIPS, INTUMESCENT FIRESTOP COLLARS, FIRESTOP BLOCKS, FIRESTOP MORTAR OR A COMBINATION OF THESE PRODUCTS TO PROVIDE A UL LISTED SYSTEM FOR EACH APPLICATION REQUIRED FOR THIS PROJECT. PROVIDE MINERAL WOOL BACKING WHERE SPECIFIED IN MANUFACTURER'S APPLICATION DETAIL.

NON-RATED SURFACES:

STAMPED STEEL, CHROME PLATED, HINGED, SPLIT RING ESCUTCHEONS OR FLOOR/CEILING PLATES FOR COVERING OPENINGS IN OCCUPIED SPACES.

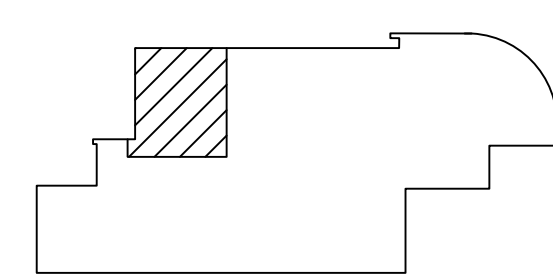
PIPING SYSTEMS:

CLEARWATER WASTE AND VENT PIPING:

PVC, SCHEDULE 40, TYPE I, ASTM D1785, AND PVC DRAIN-WASTE-VENT FITTINGS, ASTM D2665, WITH SOLVENT WELD JOINTS, ASTM D2855. SOLID WALL PVC ONLY.

PREPARE PVC PIPE ENDS AS RECOMMENDED BY MANUFACTURER. USE A P_70 TYPE PRIMER (FOR PVC) AND A PVC SOLVENT CEMENT APPROPRIATE TO THE PIPE SIZE AND TEMPERATURE RANGE.

HYDRO-STATICALLY PRESSURE TEST ALL PIPING TO 10 FEET OF WATER COLUMN PRESSURE FOR 2 HOURS. NO LEAKS ALLOWED. PROVIDE MINT TEST OF ENTIRE SYSTEM AS REQUIRED BY LOCAL INSPECTOR.



PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

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DRAWING
FLOOR PLANS -
PLUMBING

DATE
04.30.15

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P2.1

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FIRE PROTECTION GENERAL NOTES:

1. VERIFY UTILITY INFORMATION WITH LOCAL UTILITY COMPANIES, VISIT THE BUILDING SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING THE WORK.
2. VERIFY ALL MEASUREMENTS, PIPE SIZES, PIPE LOCATIONS, ELEVATIONS, ETC. AT SITE.
3. DRAWINGS OF ALL OTHER TRADES SHALL BE REVIEWED. COORDINATE THE INSTALLATION AND SCHEDULING OF THE WORK WITH OTHER TRADES TO PREVENT INTERFERENCE WITH THEIR RESPECTIVE INSTALLATION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL STRUCTURAL DIMENSIONS AND LAYOUT.
5. IT IS THE INTENT OF THESE DRAWINGS THAT A COMPLETE WORKING SYSTEM, PROPERLY TESTED, WILL BE OPERATIONAL UPON COMPLETION OF INSTALLATION.
6. CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID OPENING. THE ENGINEER RESERVES THE RIGHT TO FINAL INTERPRETATION.
7. REFER TO SYMBOL SCHEDULE FOR SYMBOLS USED.
8. ALL SPRINKLER PIPING SHALL BE LOCATED WITHIN THE JOIST SPACE UNLESS INDICATED OTHERWISE WHERE CONSTRUCTION TYPE IS APPLICABLE.
9. SPRINKLER/FIRE SUPPRESSION SYSTEM(S) SHALL BE DEFINED FOR INDIVIDUAL AREAS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, EXPOSED STRUCTURE AND CEILING DEVICES. IN EXPOSED AREAS, COORDINATE PIPE ROUTING AND HEAD LAYOUT TO PROVIDE A CLEAN SYMMETRICAL INSTALLATION WITH DUCTWORK, LIGHTING, ETC.
10. WHERE APPLICABLE, INSTALL SPRINKLERS IN CENTER OF CEILING TILE.

FIRE PROTECTION NARRATIVE

1. THE FIRE PROTECTION SYSTEM IS TO BE DESIGNED TO THE CONTRACT SCOPE DOCUMENTS, NFPA 13 LATEST EDITION, AND THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
2. CONTRACTOR TO NOTE SPECIAL AESTHETIC CONDITION OF SPRINKLER INSTALLATION IN AREAS WITH NO CEILINGS.
3. SPRINKLER COVERAGE AND PIPING SHALL BE WET PIPE HYDRAULICALLY DESIGNED BY THE FIRE PROTECTION CONTRACTOR BASED ON NFPA 13.

FIRE PROTECTION SYSTEM CLASSIFICATION

LIGHT HAZARD OCCUPANCY:

THE PROTECTION AREA ALLOTTED PER SPRINKLER SHOULD NOT EXCEED 200 SQUARE FEET WITH THE MAXIMUM DISTANCE BETWEEN LINES AND SPRINKLERS ON LINES BEING 15 FEET. THE SPRINKLERS DO NOT NEED TO BE STAGGERED.

AREAS OF LIGHT HAZARD SHALL INCLUDE: ALL GENERAL OFFICE SPACE, TOILET ROOMS, SLEEPING ROOMS AND CORRIDORS.

FIRE PROTECTION LEGEND

	EXISTING PIPING TO BE REMOVED/DEMOLISHED
	EXISTING PIPING (SERVICE DESIGNATED)
	DOMESTIC WATER SERVICE
	FIRE PROTECTION WATER SERVICE
	SPRINKLER PIPING
	TEE (BRANCH TO SIDE)
	TEE (BRANCH DOWN)
	RISER UP
	RISER DOWN
	CLEANOUT (CO)
	WALL CLEANOUT (WCO)
	FLOOR CLEANOUT (FCO)
	YARD CLEANOUT (YCO)
	FLOW
	CHECK VALVE
	POINT OF CONNECTION (POC)
	CAP
	SHUT-OFF VALVE
	PIPE STRAINER
	FLOW SWITCH
	TAMPER SWITCH
	OS&Y GATE VALVE
	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE HYDRANT (HYD)
	VALVE IN RISER
	PRESSURE GAUGE
	ANGLE VALVE - FIRE HOSE CONNECTION
	EXISTING SPRINKLER HEAD
	NEW SPRINKLER HEAD
	DEMOLITION KEYED NOTE
	NEW WORK KEYED NOTE
	REVISION KEYED NOTE
	TAG FOR CONTINUATION MATCH POINTS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
DCV	DOUBLE DETECTOR CHECK VALVE
E	EXISTING
EC	ELECTRICAL CONTRACTOR
F	FIRE PROTECTION WATER SERVICE
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
HC	HVAC CONTRACTOR
PC	PLUMBING CONTRACTOR
SPR	SPRINKLER PIPING
W	DOMESTIC WATER SERVICE

GENERAL NOTES:

LIGHT HAZARD (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: CHROME SEMI-RECESSED IN CEILINGS)

FIRE PROTECTION SHEET INDEX

FP0.0	SYMBOLS AND ABBREVIATIONS - FIRE PROTECTION
FP1.1	PARTIAL FIRST FLOOR DEMOLITION PLAN - FIRE PROTECTION
FP1.2	PARTIAL SECOND FLOOR DEMOLITION PLAN - FIRE PROTECTION
FP2.1	PARTIAL FIRST FLOOR NEW WORK PLAN - FIRE PROTECTION
FP2.2	PARTIAL SECOND FLOOR NEW WORK PLAN - FIRE PROTECTION

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PROJECT
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RENOVATIONS

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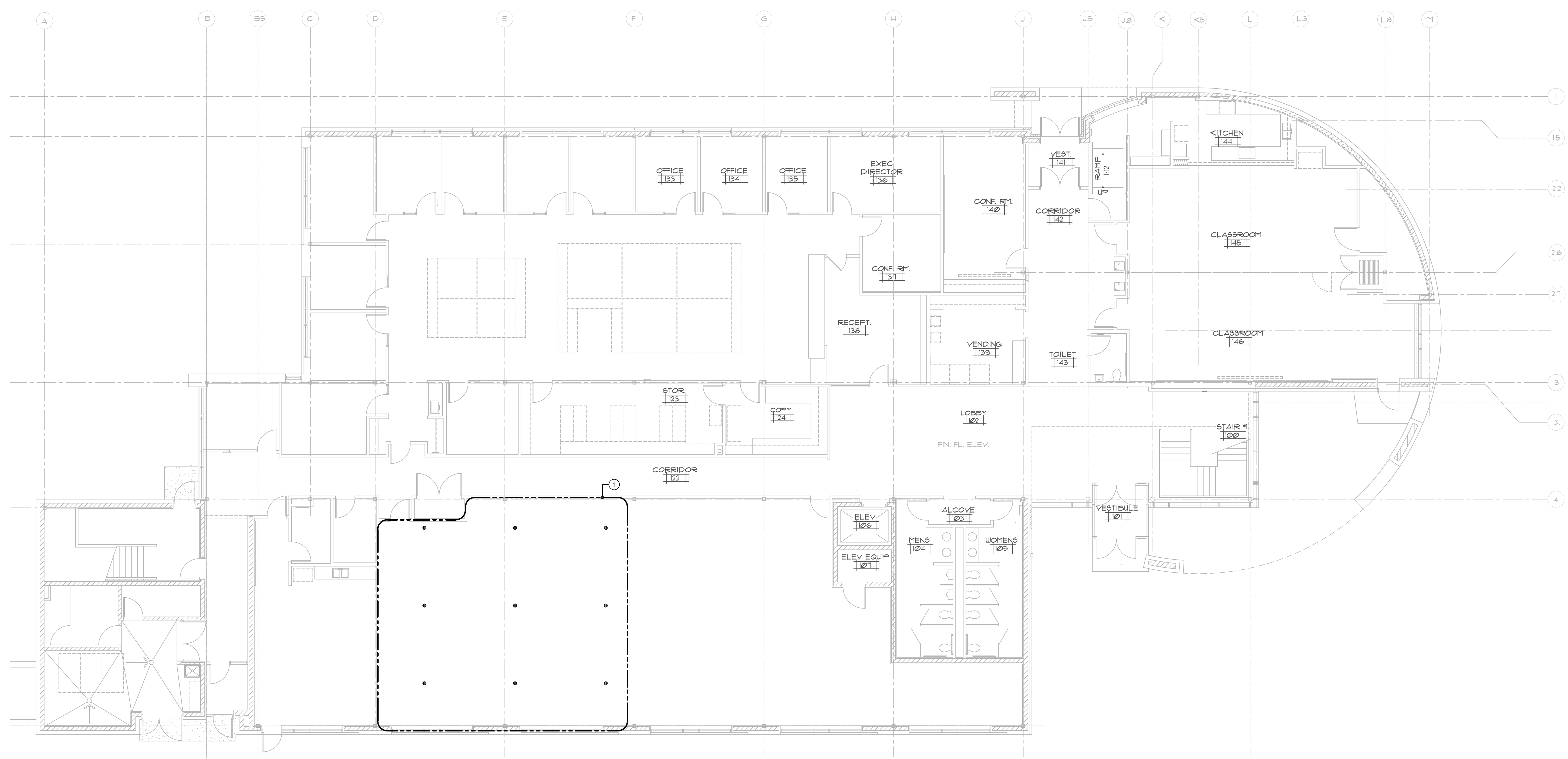
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ABBREVIATIONS - FIRE
PROTECTION
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1 PARTIAL FIRST FLOOR
DEMOLITION PLAN - FIRE PROTECTION
FP1.1 SCALE: 1/8"=1'-0"  NORTH

GENERAL NOTES:

1. FPC SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY BEFORE COMMENCING WORK.
2. COORDINATE EXISTING SPRINKLER HEADS WITH NEW ARCHITECTURAL WORK. FINAL SPRINKLER HEAD LAYOUT, SYSTEM DESIGN, COVERAGES, ETC SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. SPRINKLER HEADS SHOWN FOR INFORMATIONAL PURPOSES ONLY.


KEYED NOTES:

- 1** LIMITS OF DEMOLITION: FPC SHALL DEMOLISH ALL EXISTING SPRINKLER HEAD DROPS NOT REQUIRED FOR NEW SPRINKLER HEAD LOCATIONS. ALL EXISTING SPRINKLER HEADS SHALL BE DEMOLISHED AND ARE NOT TO BE REUSED.

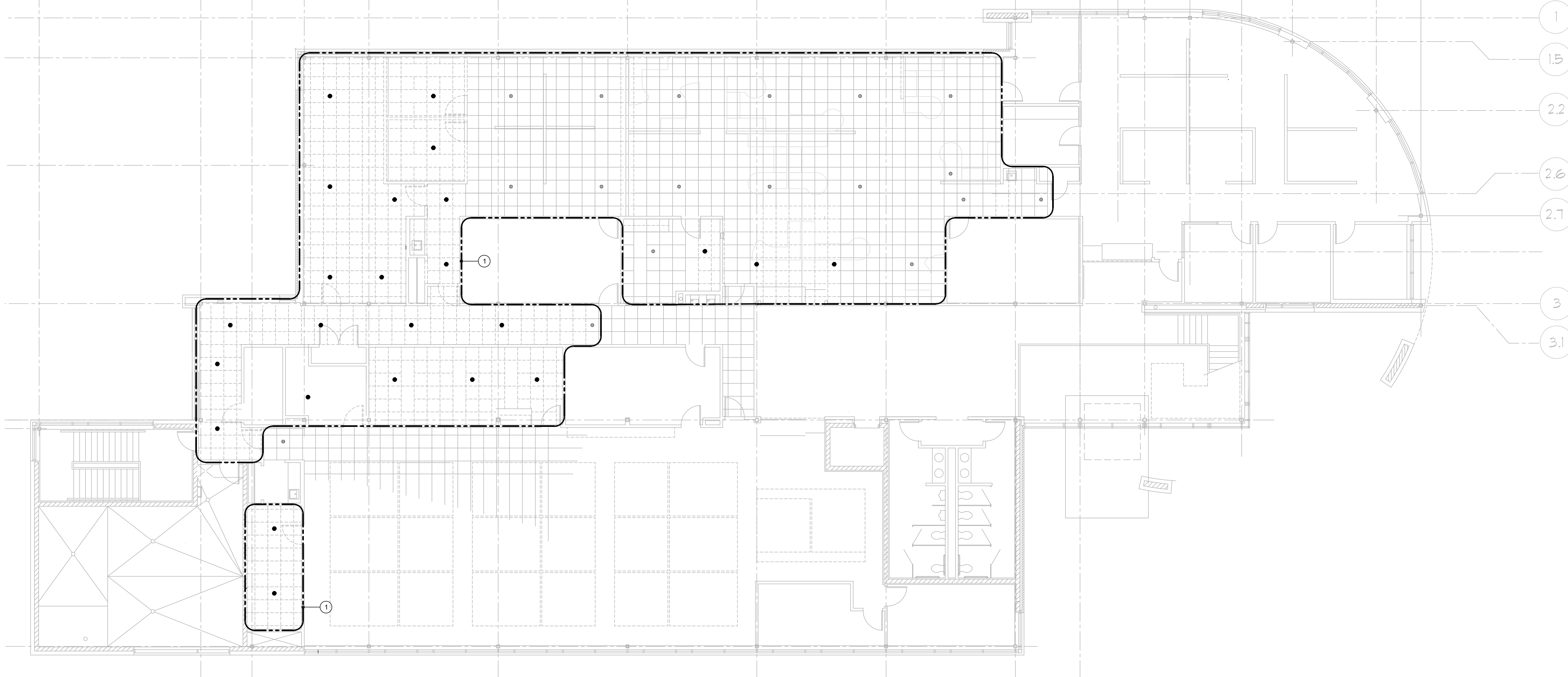
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DEMOLITION PLAN - FIRE
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FP1.1



1
FP1.2
SCALE: 1/8"=1'-0"

**PARTIAL SECOND FLOOR
DEMOLITION PLAN - FIRE PROTECTION**

NORTH

GENERAL NOTES:

1. FPC SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY BEFORE COMMENCING WORK.
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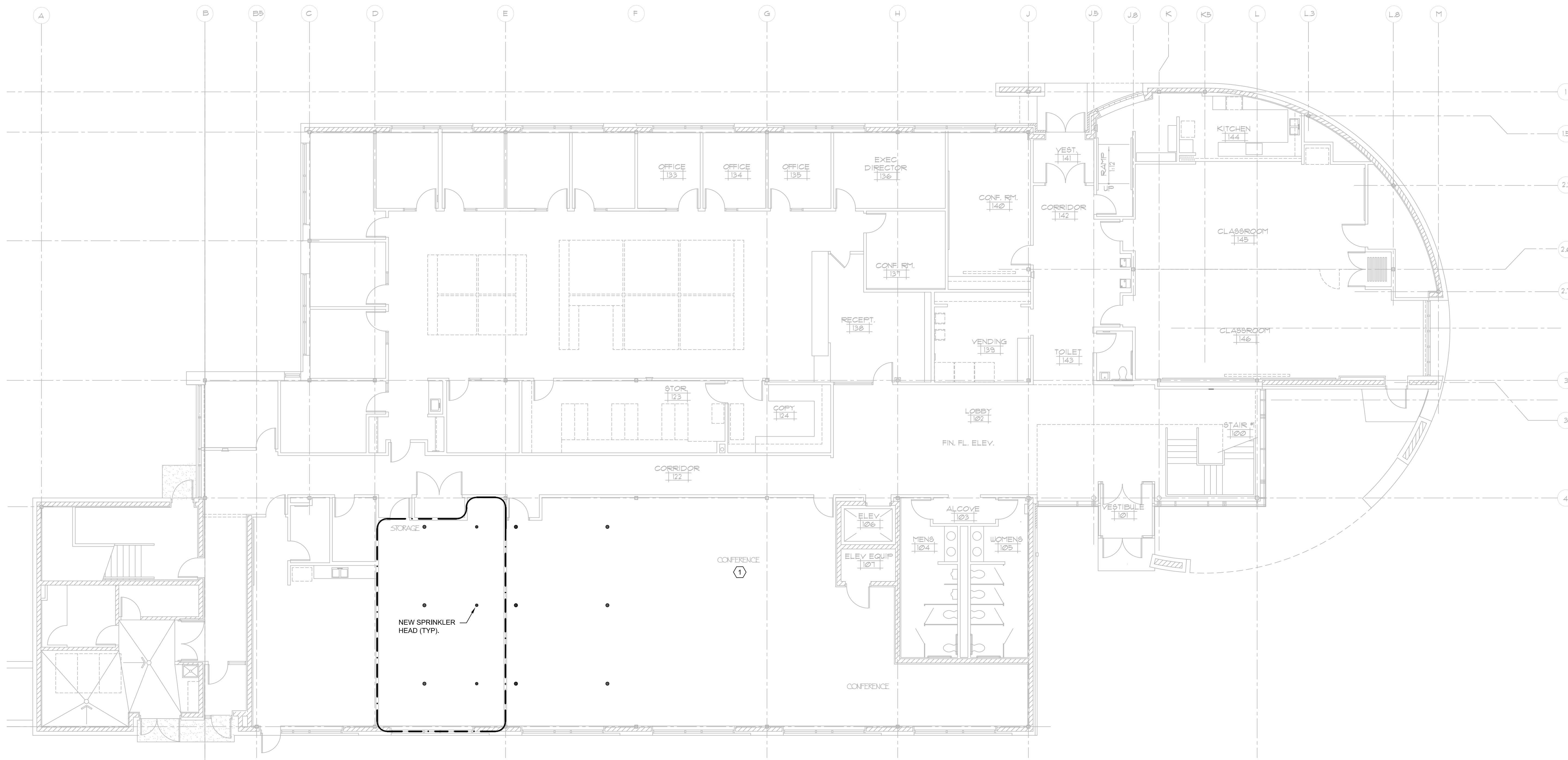
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FP1.2



1 PARTIAL FIRST FLOOR
NEW WORK PLAN - FIRE PROTECTION
FP2.1 SCALE: 1/8"=1'-0"



GENERAL NOTES:

1. FPC SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY BEFORE COMMENCING WORK.
2. COORDINATE EXISTING SPRINKLER HEADS WITH NEW ARCHITECTURAL WORK. FINAL SPRINKLER HEAD LAYOUT, SYSTEM DESIGN, COVERAGES, ETC SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. SPRINKLER HEADS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. REFER TO ARCHITECTURAL DRAWING FOR CEILING TYPES AND HEIGHT. COORDINATE WORK WITH ALL TRADES.

KEYED NOTES:

- ① EXISTING SPRINKLER COVERAGE TO REMAIN.

GENERAL NOTES:

- LIGHT HAZARD (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: CHROME SEMI-RECESSED IN CEILINGS)

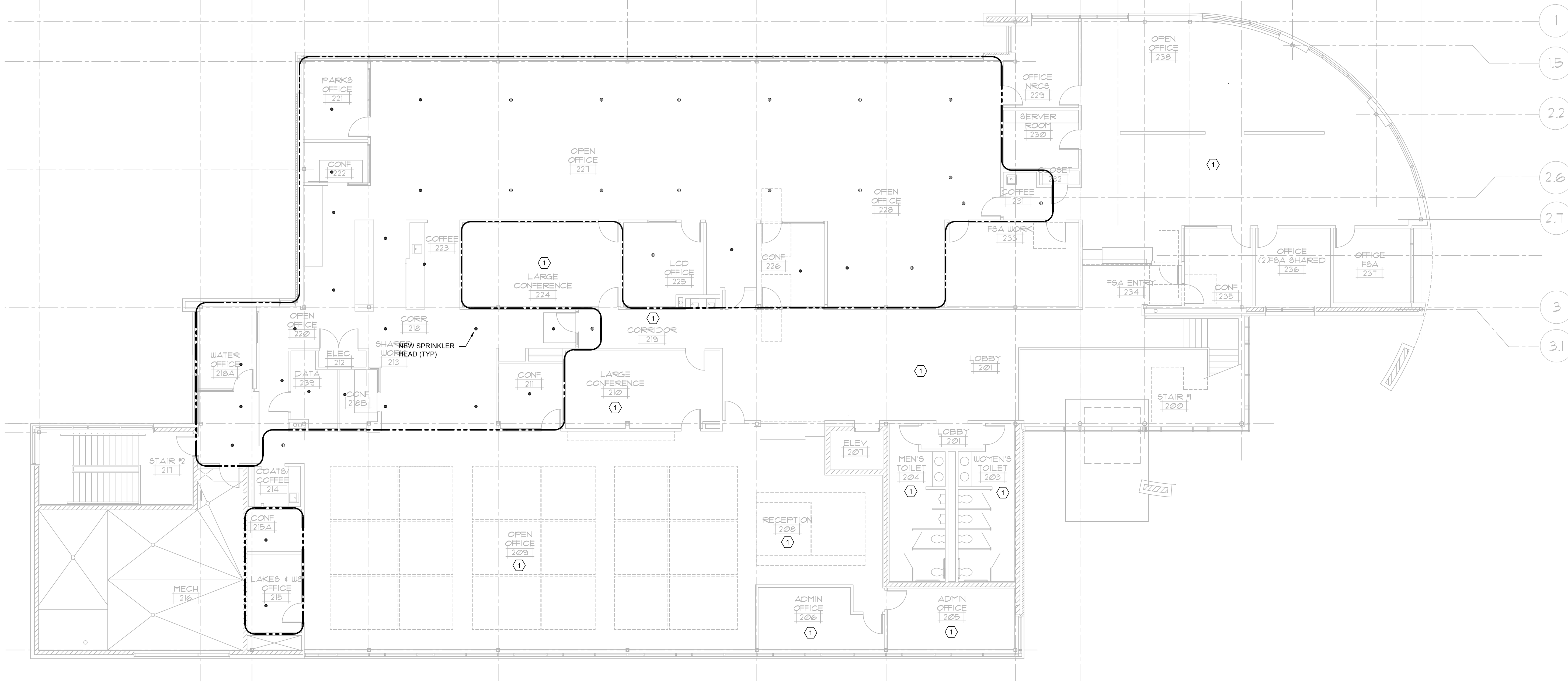
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FP2.1



1 PARTIAL SECOND FLOOR
NEW WORK PLAN - FIRE PROTECTION
FP2.2 SCALE: 1/8"=1'-0"



GENERAL NOTES:

1. FPC SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY BEFORE COMMENCING WORK.
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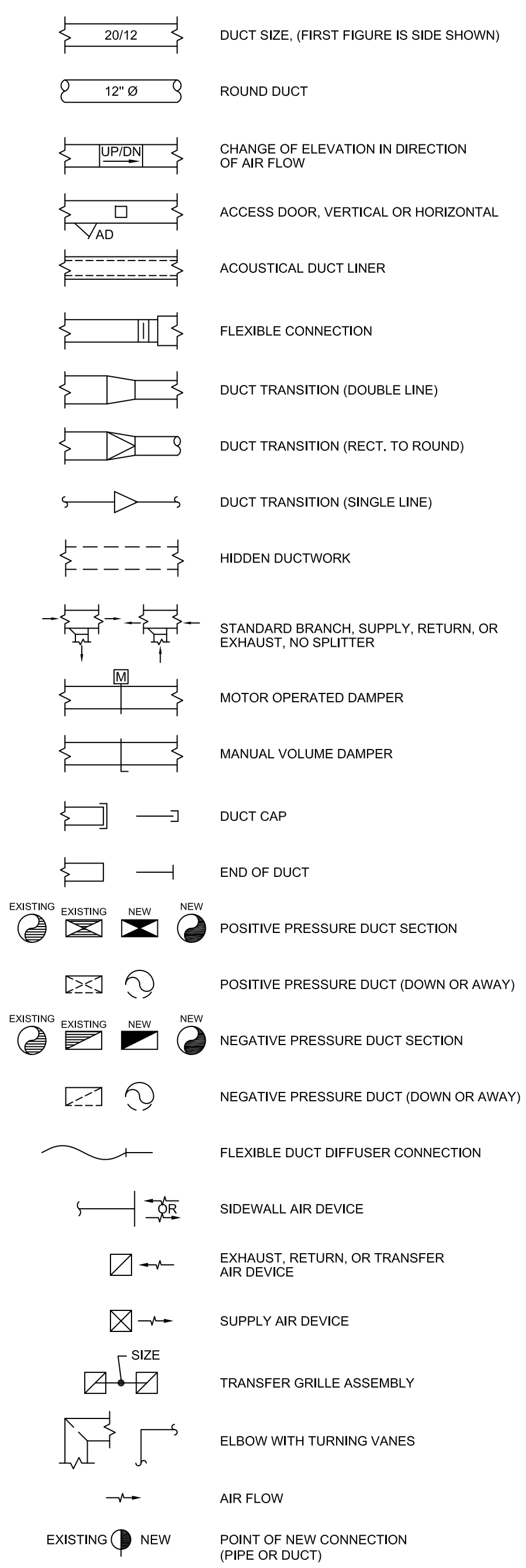
FP2.2

ABBREVIATIONS

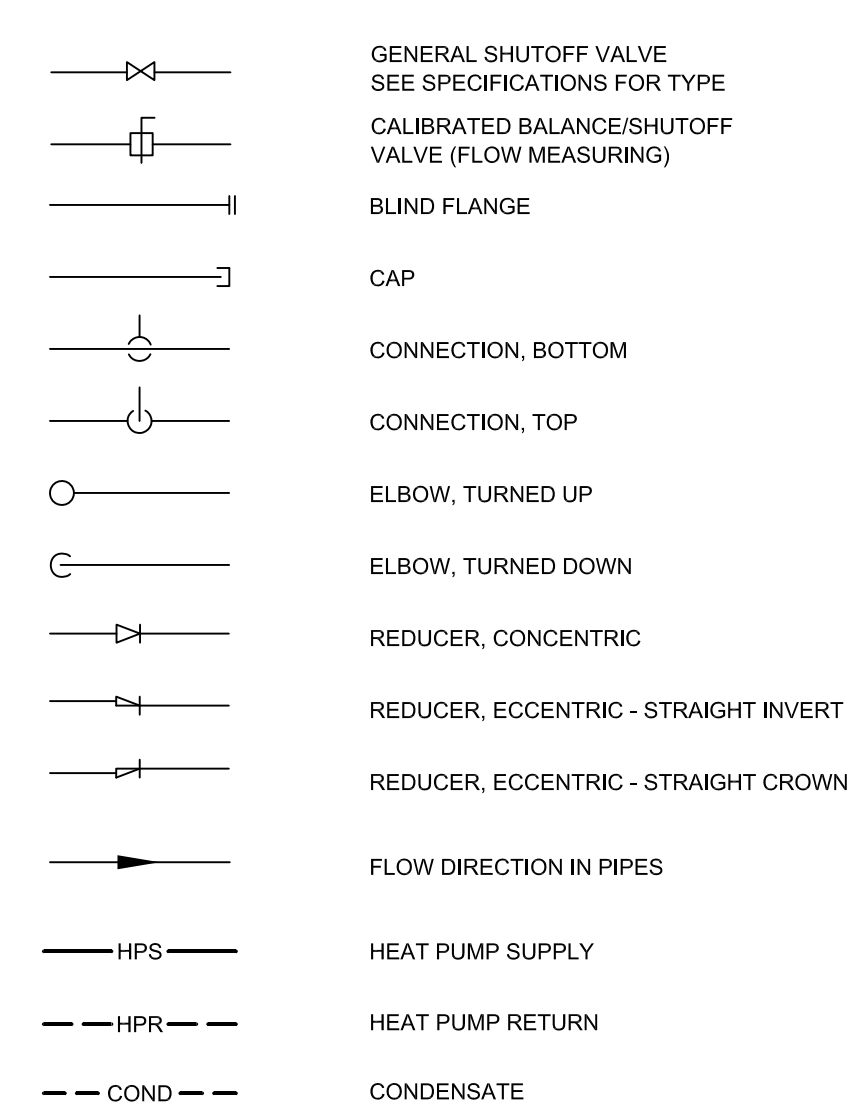
AD	ACCESS DOOR
ADJ	ADJUSTABLE
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ASC	ABOVE SUSPENDED CEILING
AUTO	AUTOMATIC
BB	BASEBOARD
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CL	CENTERLINE
CLG	CEILING
COND	CONDENSATE
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
D	DRAIN
DDC	DIRECT DIGITAL CONTROL
DEPT	DEPARTMENT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EW	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXT	EXTERIOR OR EXTERNAL
'F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FORWARD CURVED
FD	FLOOR DRAIN OR FIRE DAMPER
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FLL	FILL LINE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPC	FIRE PROTECTION CONTRACTOR
FFM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FOOT OR FEET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HC	HEATING CONTRACTOR
HD	HUB DRAIN
HG	MERCURY
HGT	HEIGHT
HP	HORSEPOWER
HPU	HEAT PUMP UNIT
HPR	HEAT PUMP WATER RETURN
HPS	HEAT PUMP WATER SUPPLY
HR	HOUR
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HZ	HERTZ
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE

M	MOTOR OPERATED DAMPER
MAT	MIXED AIR TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS/HOUR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
MOPP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
OC	ON CENTER
OPD	OPPOSED BLADE DAMPER
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
REQD	REQUIRED
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
S	SUPPLY
SA	SUPPLY AIR
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SM	SHEET METAL
SQ FT	SQUARE FEET
SR	SUPPLY REGISTER
SWD	SINGLE WALL DUCTWORK
T	THERMOSTAT/TEMPERATURE SENSOR
TA	THROWAWAY
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TCV	TEMPERATURE CONTROL VALVE
TEMP	TEMPORARY
TF	TRANSFER FAN
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TG	TRANSFER GRILLE
TO	TEST OPENINGS
TS	TIP SPEED
TYP	TYPICAL
UH	UNIT HEATER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
WB	WET BULB
WC	WATER COLUMN
WP	WEATHER PROOF
WPD	WATER PRESSURE DROP

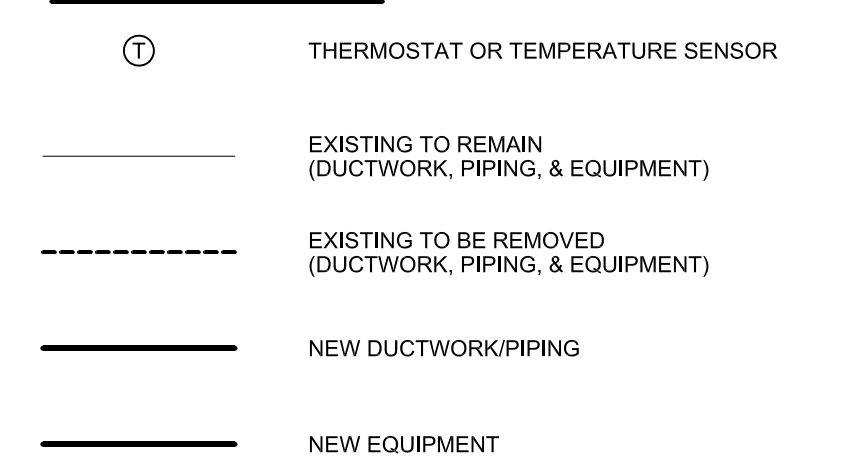
DUCTWORK SYSTEMS



PIPING SYSTEMS



GENERAL SYMBOLS



HVAC SHEET INDEX

M000	SYMBOLS AND ABBREVIATIONS - HVAC
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M1.2	PARTIAL SECOND FLOOR DEMOLITION PLAN - HVAC
M2.1	PARTIAL FIRST FLOOR NEW WORK PLAN - HVAC
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M3.0	DETAILS - HVAC
M4.0	SCHEDULES - HVAC

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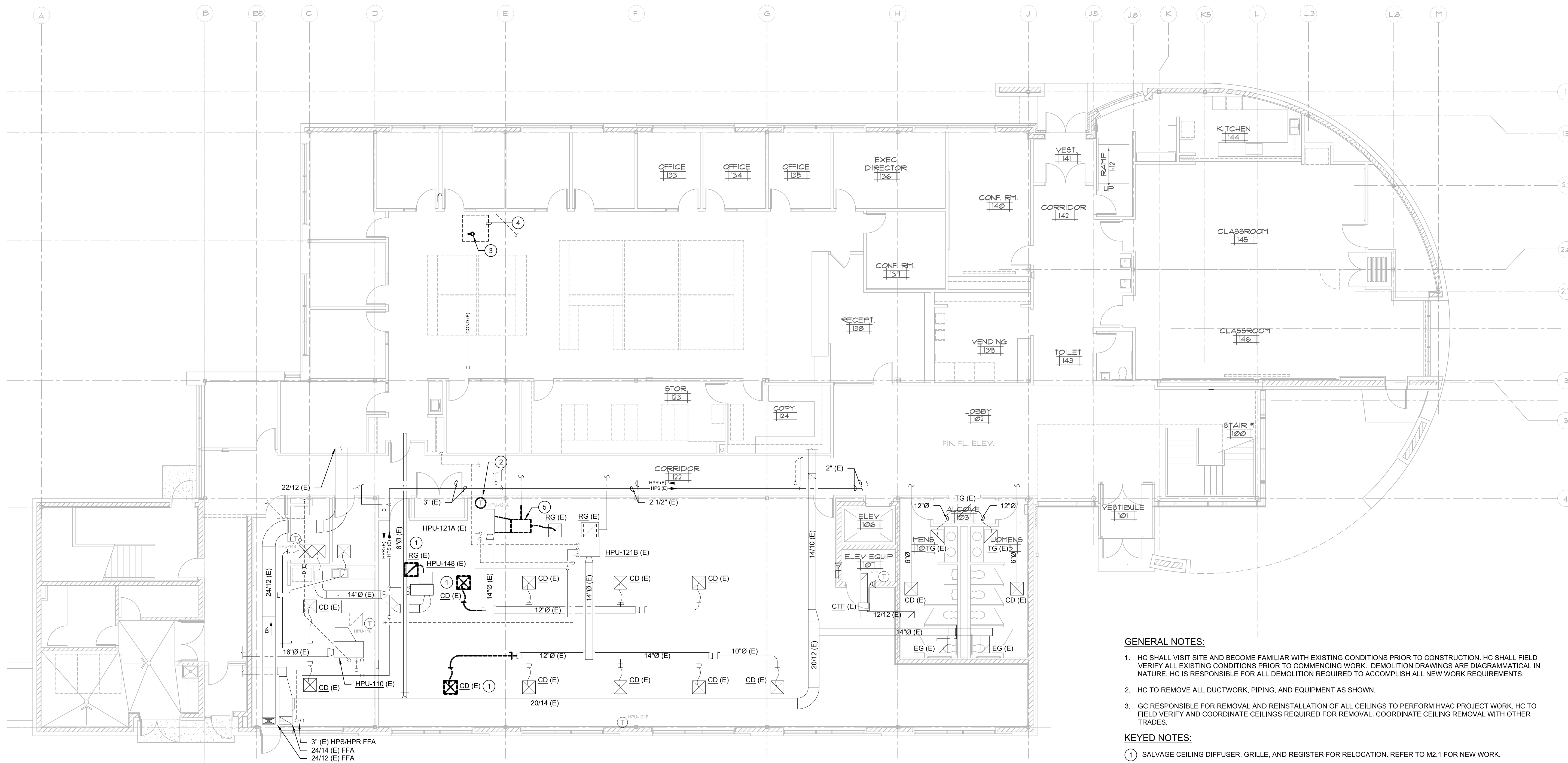
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DRAWING
SYMBOLS AND
ABBREVIATIONS - HVAC

DATE
04.30.15

M0.0



GENERAL NOTES:

1. HC SHALL VISIT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. HC SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. DEMOLITION DRAWINGS ARE DIAGRAMMATICAL IN NATURE. HC IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCOMPLISH ALL NEW WORK REQUIREMENTS.
2. HC TO REMOVE ALL DUCTWORK, PIPING, AND EQUIPMENT AS SHOWN.
3. GC RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILINGS TO PERFORM HVAC PROJECT WORK. HC TO FIELD VERIFY AND COORDINATE CEILINGS REQUIRED FOR REMOVAL. COORDINATE CEILING REMOVAL WITH OTHER TRADES.

KEYED NOTES:

- 1 SALVAGE CEILING DIFFUSER, GRILLE, AND REGISTER FOR RELOCATION. REFER TO M2.1 FOR NEW WORK.
- 2 SALVAGE EXISTING THERMOSTAT FOR RELOCATION. REFER TO M2.1 FOR NEW WORK.
- 3 REMOVE CONDENSATE PIPE FROM FLOOR ABOVE AND CAP. REFER TO M2.1 FOR NEW WORK.
- 4 APPROXIMATE LOCATION OF CEILING REMOVAL REQUIRED FOR HVAC WORK.
- 5 REMOVE RETURN DUCTWORK AS REQUIRED TO ACCOMMODATE NEW ARCHITECTURAL LAYOUT. REFER TO M2.1 FOR NEW WORK.

1 PARTIAL FIRST FLOOR DEMOLITION PLAN - HVAC
M1.1 SCALE: 1/8"=1'-0"



PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

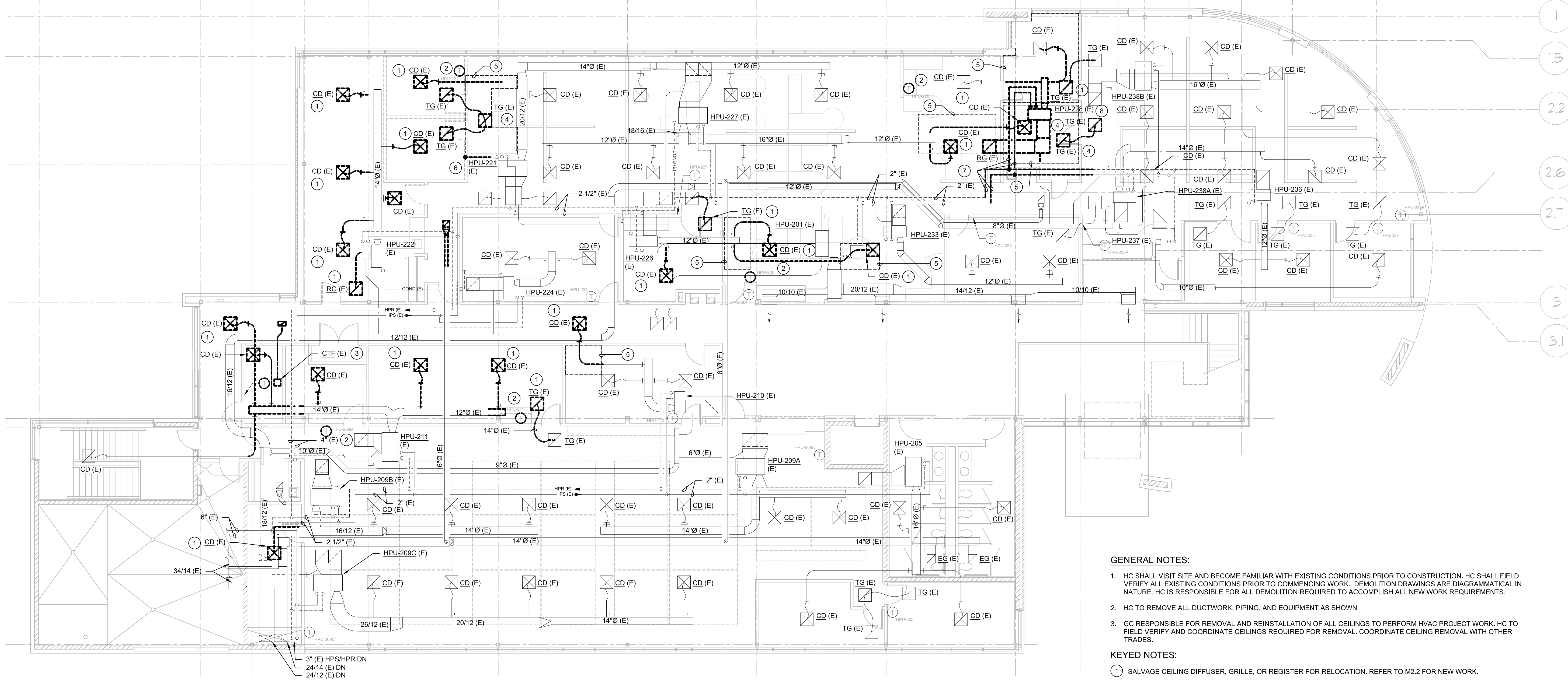
LYMAN F. ANDERSON
AGRICULTURE AND
CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

DRAWING
PARTIAL FIRST FLOOR
DEMOLITION PLAN - HVAC

DATE
04.30.15

JDR
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JDR Project No. 150045

M1.1



1 PARTIAL SECOND FLOOR DEMOLITION PLAN - HVAC
M1.2 SCALE: 1/8"=1'-0"



GENERAL NOTES:

1. HC SHALL VISIT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. HC SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. DEMOLITION DRAWINGS ARE DIAGRAMMATICAL IN NATURE. HC IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCOMPLISH ALL NEW WORK REQUIREMENTS.
2. HC TO REMOVE ALL DUCTWORK, PIPING, AND EQUIPMENT AS SHOWN.
3. GC RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILINGS TO PERFORM HVAC PROJECT WORK. HC TO FIELD VERIFY AND COORDINATE CEILINGS REQUIRED FOR REMOVAL. COORDINATE CEILING REMOVAL WITH OTHER TRADES.

KEYED NOTES:

- 1 SALVAGE CEILING DIFFUSER, GRILLE, OR REGISTER FOR RELOCATION. REFER TO M2.2 FOR NEW WORK.
- 2 SALVAGE EXISTING THERMOSTAT FOR RELOCATION. REFER TO M2.2 FOR NEW WORK.
- 3 REMOVE EXISTING TRANSFER FAN, THERMOSTAT, AND CONTROL WIRING COMPLETE.
- 4 GC TO PROVIDE NEW ACOUSTICAL CEILING TILE FROM DEMOLISHED TRANSFER GRILLE.
- 5 APPROXIMATE LOCATION OF CEILING REMOVAL REQUIRED FOR HVAC WORK.
- 6 REMOVE CONDENSATE PIPE DOWN THROUGH FLOOR. REFER TO M2.2 FOR NEW WORK.
- 7 REMOVE HEAT PUMP SUPPLY AND RETURN PIPING OVER EXISTING SERVER ROOM SPACE. REFER TO M2.2 FOR NEW WORK.
- 8 REMOVE AND SALVAGE HEAT PUMP UNIT (HPU-228 (E)) FOR RELOCATION. THIS INCLUDES MODIFYING ALL RETURN, SUPPLY, AND OUTSIDE AIR DUCTWORK, AND ALL CONTROLS WIRING/CONDUIT. COORDINATE WITH EC TO DISCONNECT AND RECONNECT POWER TO UNIT. REFER TO M2.2 FOR NEW WORK.

PROJECT
FEN OAK SECOND FLOOR RENOVATIONS

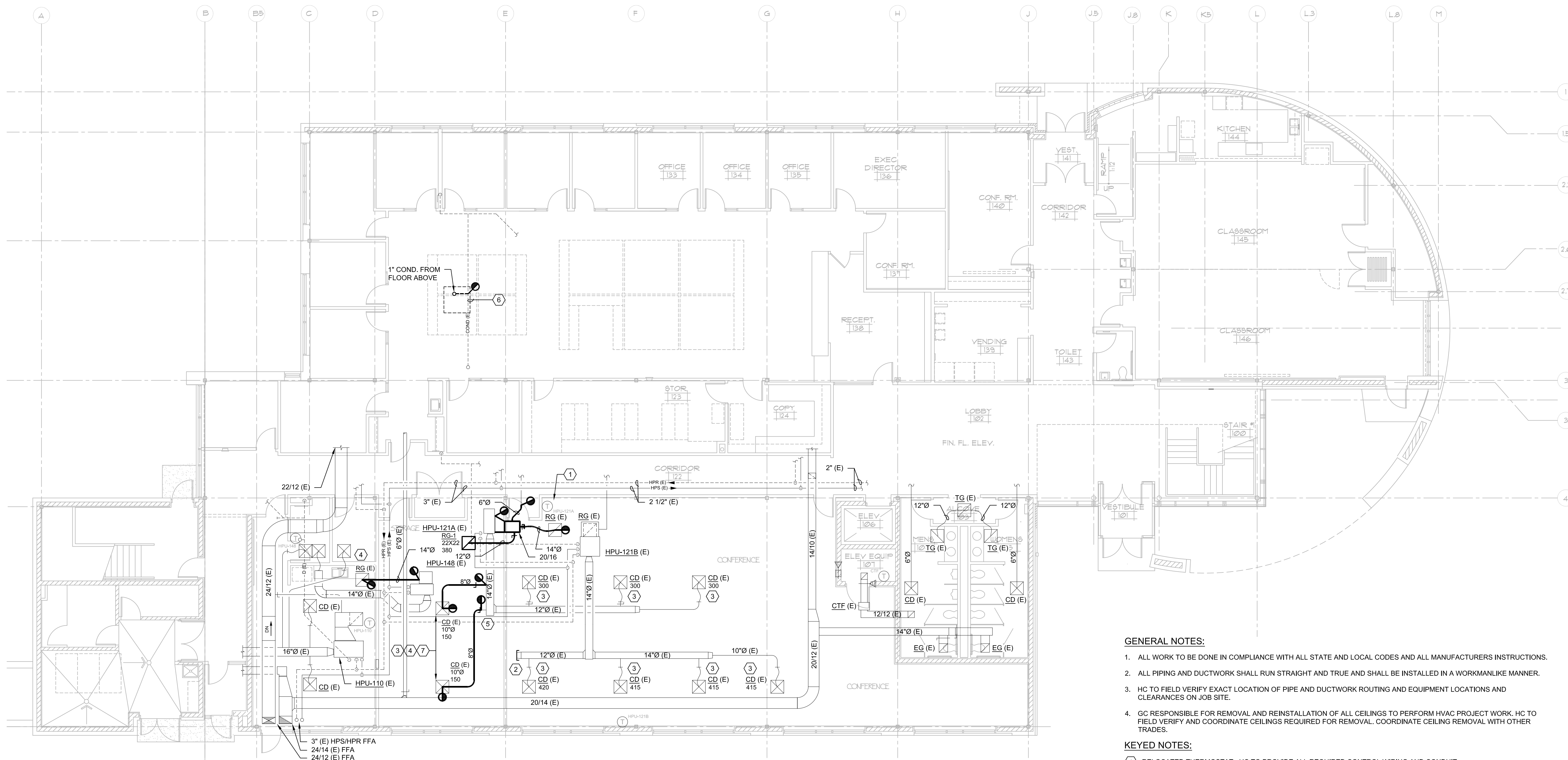
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M1.2



- GENERAL NOTES:**
1. ALL WORK TO BE DONE IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND ALL MANUFACTURERS INSTRUCTIONS.
 2. ALL PIPING AND DUCTWORK SHALL RUN STRAIGHT AND TRUE AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER.
 3. HC TO FIELD VERIFY EXACT LOCATION OF PIPE AND DUCTWORK ROUTING AND EQUIPMENT LOCATIONS AND CLEARANCES ON JOB SITE.
 4. GC RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILINGS TO PERFORM HVAC PROJECT WORK. HC TO FIELD VERIFY AND COORDINATE CEILINGS REQUIRED FOR REMOVAL. COORDINATE CEILING REMOVAL WITH OTHER TRADES.

- KEYED NOTES:**
- 1 RELOCATED THERMOSTAT. HC TO PROVIDE ALL REQUIRED CONTROL WIRING AND CONDUIT.
 - 2 PROVIDE DUCT CAP AND INSULATE.
 - 3 REBALANCE EQUIPMENT TO FLOW RATE LISTED.
 - 4 RELOCATED CEILING DIFFUSER. HC TO CLEAN DIFFUSER AND PROVIDE NEW IF DAMAGED UPON REMOVAL.
 - 5 PROVIDE 10" TO 8" CONCENTRIC REDUCER AT SUPPLY AIR DUCT MAIN.
 - 6 APPROXIMATE LOCATION OF CEILING REMOVAL REQUIRED FOR HVAC WORK. HC TO REMOVE AND REINSTALL ALL EXISTING CEILING DIFFUSERS REQUIRED TO BE ADJUSTED FOR NEW WORK.
 - 7 PROVIDE 10" TO 8" CONCENTRIC REDUCER AT DIFFUSER CONNECTION.

1 PARTIAL FIRST FLOOR NEW WORK PLAN - HVAC
M2.1 SCALE: 1/8"=1'-0" NORTH

PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

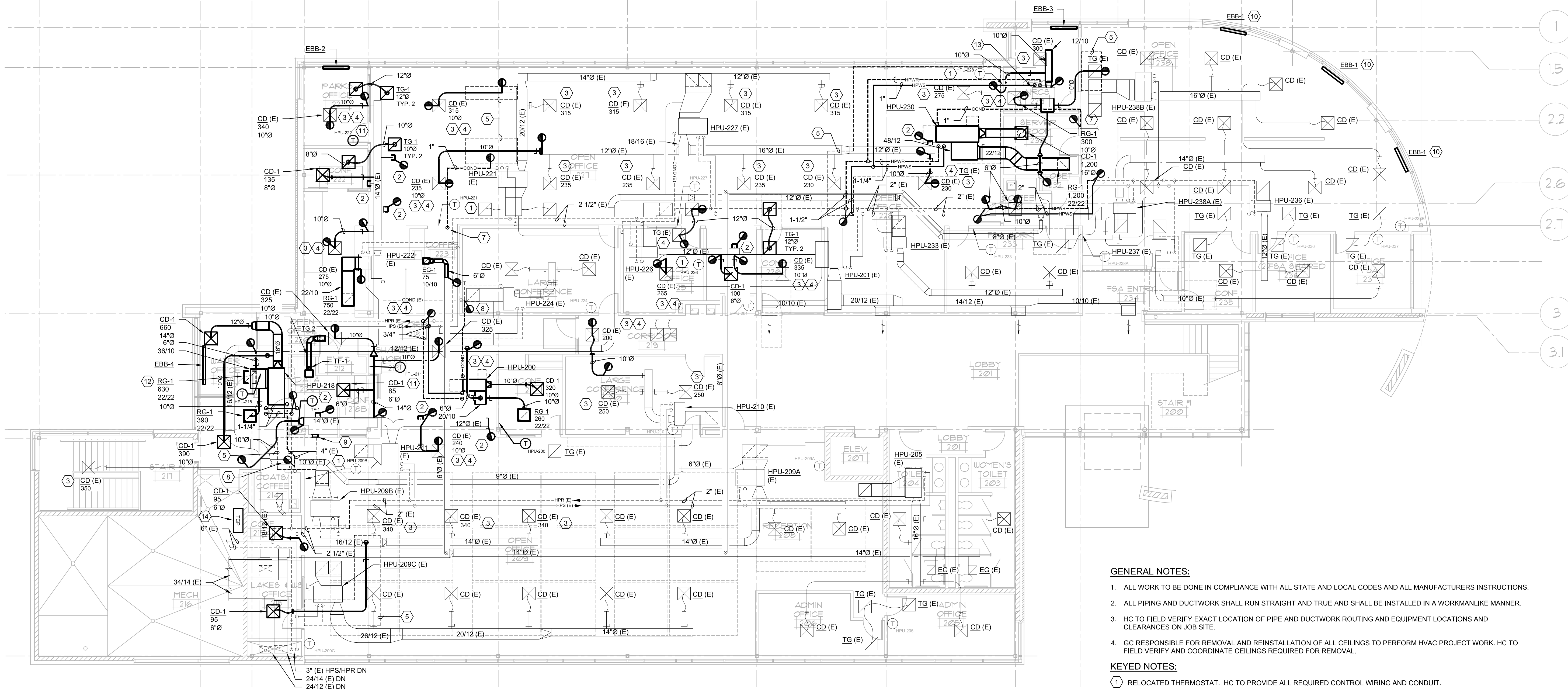
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MADISON, WI

DRAWING
PARTIAL FIRST FLOOR NEW
WORK PLAN - HVAC

DATE
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M2.1



1 PARTIAL SECOND FLOOR NEW WORK PLAN - HVAC
M2.2 SCALE: 1/8"=1'-0"



GENERAL NOTES:

1. ALL WORK TO BE DONE IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND ALL MANUFACTURERS INSTRUCTIONS.
2. ALL PIPING AND DUCTWORK SHALL RUN STRAIGHT AND TRUE AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER.
3. HC TO FIELD VERIFY EXACT LOCATION OF PIPE AND DUCTWORK ROUTING AND EQUIPMENT LOCATIONS AND CLEARANCES ON JOB SITE.
4. GC RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL CEILINGS TO PERFORM HVAC PROJECT WORK. HC TO FIELD VERIFY AND COORDINATE CEILINGS REQUIRED FOR REMOVAL.

KEYED NOTES:

- 1 RELOCATED THERMOSTAT. HC TO PROVIDE ALL REQUIRED CONTROL WIRING AND CONDUIT.
- 2 PROVIDE DUCT CAP AND INSULATE.
- 3 REBALANCE EQUIPMENT TO FLOW RATE LISTED.
- 4 RELOCATED AIR DEVICE. HC TO CLEAN DEVICE AND PROVIDE NEW IF DAMAGED UPON REMOVAL.
- 5 APPROXIMATE LOCATION OF CEILING REMOVAL REQUIRED FOR HVAC WORK. HC TO REMOVE AND REINSTALL ALL EXISTING CEILING DIFFUSERS REQUIRED TO BE ADJUSTED FOR NEW WORK.
- 6 PROVIDE NEW DDC TEMPERATURE SENSOR FOR EXISTING HEAT PUMP UNIT. SENSOR TO MATCH EXISTING BUILDING DDC SENSORS.
- 7 1" CONDENSATE DOWN TO FLOOR BELOW. REFER TO M2.1 FOR CONTINUATION.
- 8 CONNECT TO EXISTING CONDENSATE RISER.
- 9 PROVIDE (2) TG-2 LOW ON WALL.
- 10 CENTER EACH EBB-1 ON EXISTING WINDOW MULLION.
- 11 PROVIDE NEW DDC TEMPERATURE SENSOR FOR HEAT PUMP UNIT. SENSOR TO MATCH BUILDING STANDARD.
- 12 PROVIDE 22/22 PLENUM BOX WITH 12"Ø CONNECTION FOR RETURN GRILLE.
- 13 RELOCATED HEAT PUMP UNIT (HPU-228 (E)). PROVIDE NEW RETURN AND SUPPLY AIR DUCTWORK. RETURN AIR DUCT PLENUM TO MATCH UNIT RETURN CONNECTION SIZE. MODIFY CONTROLS WIRING/CONDUIT AS REQUIRED TO ACCOMMODATE NEW UNIT LOCATION.
- 14 HC TO FIELD VERIFY LOCATION OF NEW TEMPERATURE CONTROL PANEL FOR (3) NEW HEAT PUMP UNITS. COORDINATE LOCATION WITH EC. EC TO PROVIDE POWER AND DATA CONNECTION AT TEMPERATURE CONTROL PANEL.

PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

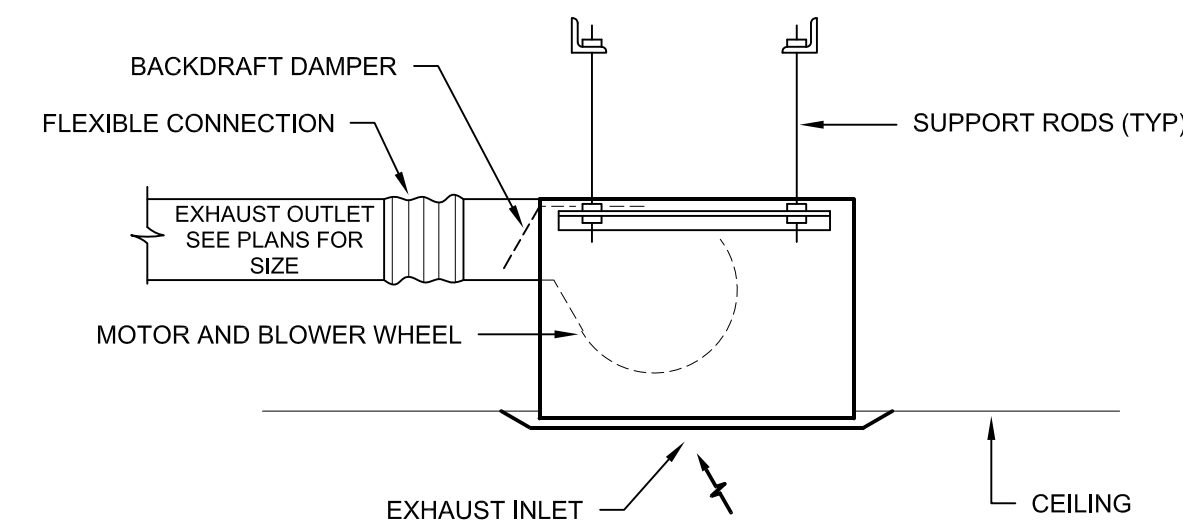
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DRAWING
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NEW WORK PLAN - HVAC

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04.30.15

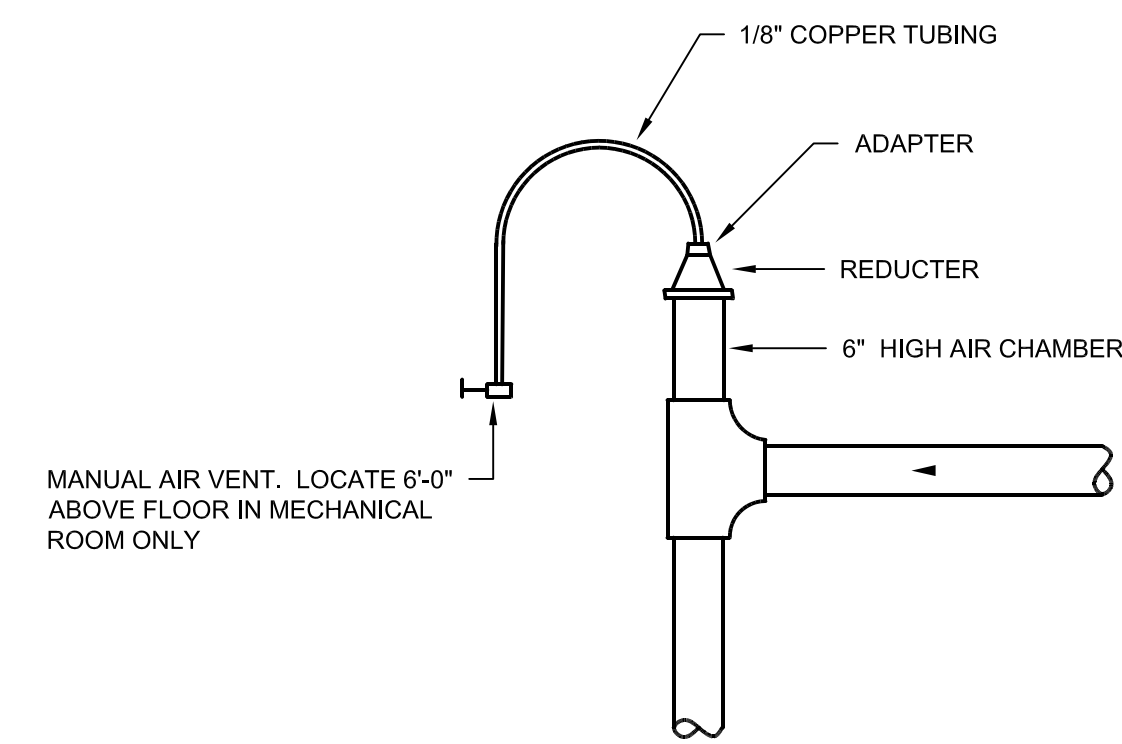
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M2.2



NOTE: VERTICAL DISCHARGE WHERE INDICATED ON DRAWINGS.

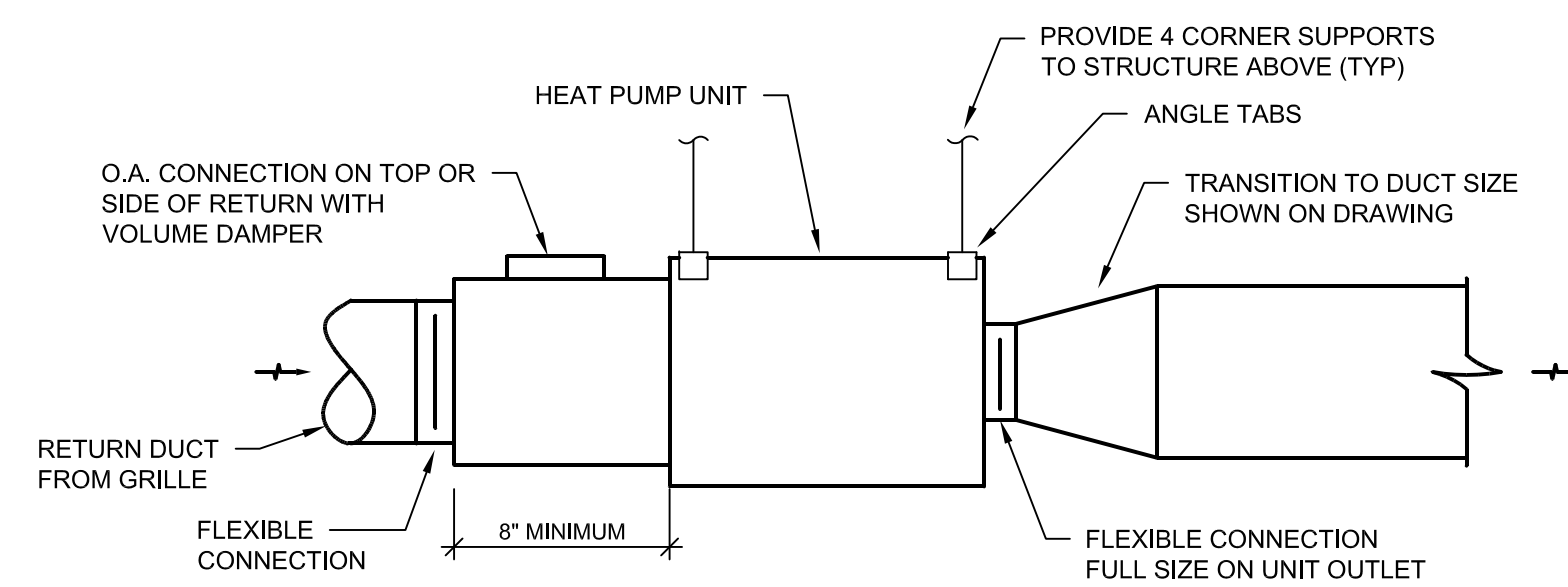
6 CEILING MOUNTED TRANSFER FAN
M3.0 SCALE: NONE



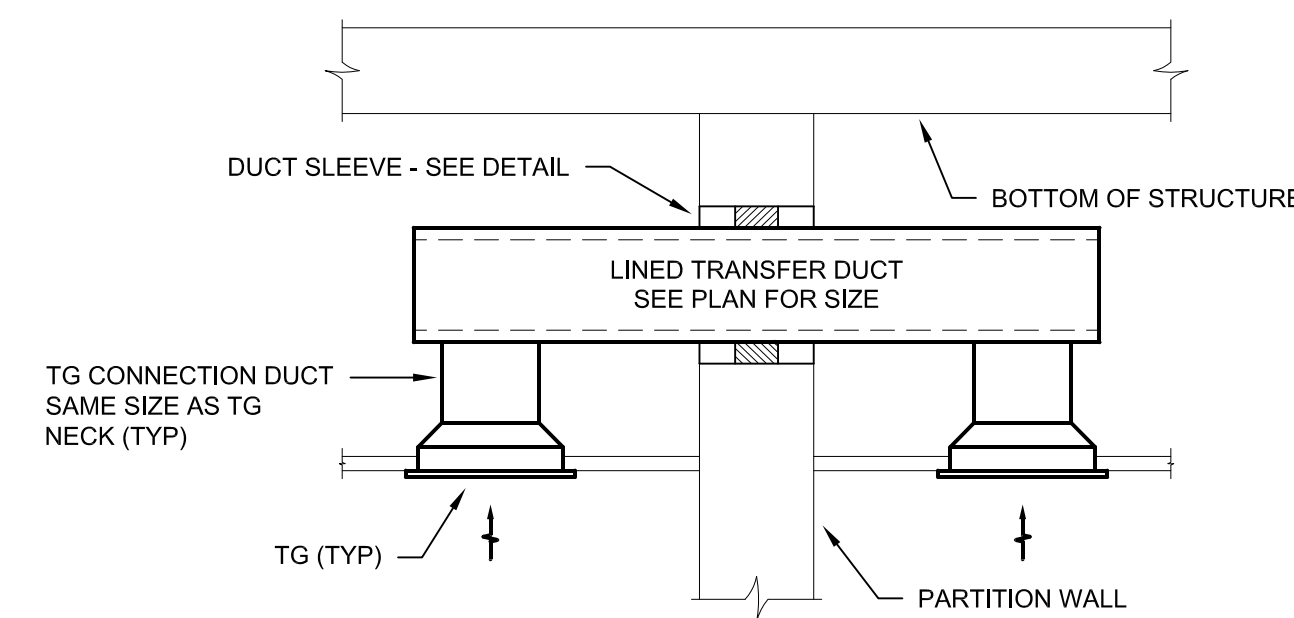
NOTES:

1. PROVIDE AT ALL HIGH POINTS IN PIPING SYSTEM.
2. PROVIDE 1/2" BALL VALVE AND PIPING WITH HOSE BIBB ADAPTER FOR PIPING 2 1/2" DIAMETER AND LARGER.

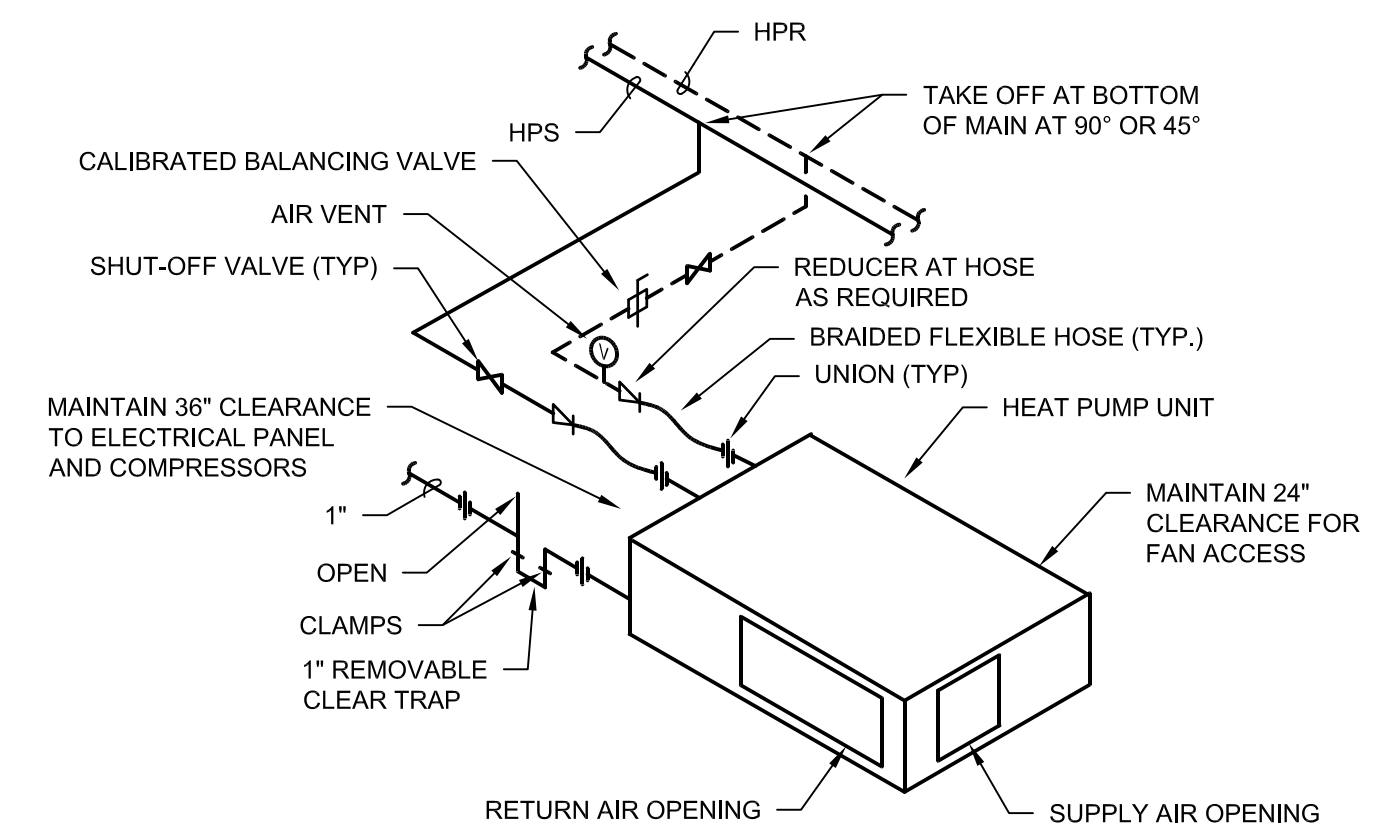
3 MANUAL AIR VENT DETAIL
M3.0 SCALE: NONE



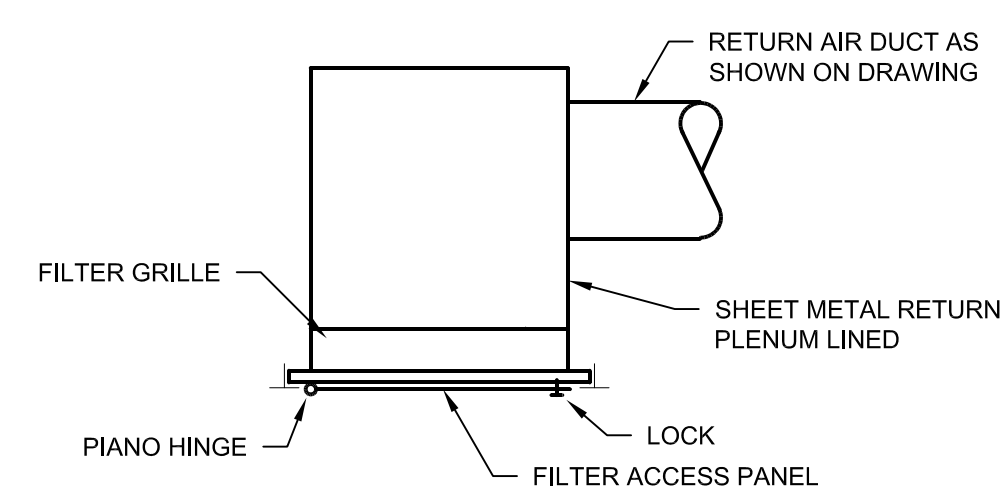
8 HEAT PUMP UNIT DUCT CONNECTION DETAIL
M3.0 SCALE: NONE



5 TRANSFER DUCT DETAIL
M3.0 SCALE: NONE

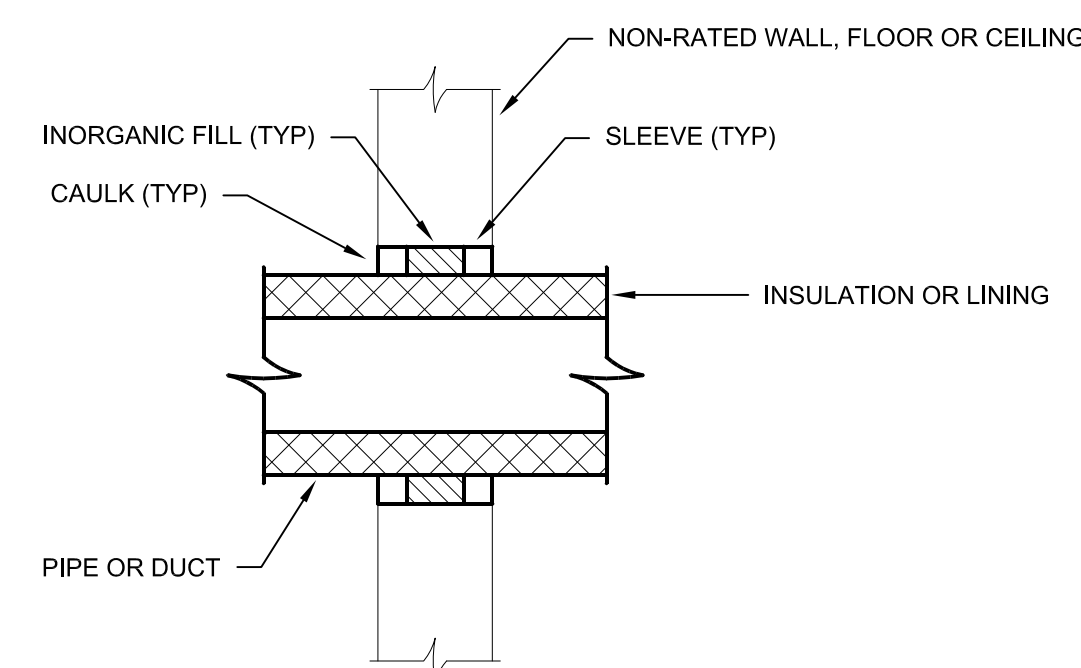


2 HEAT PUMP UNIT PIPING DETAIL
M3.0 SCALE: NONE



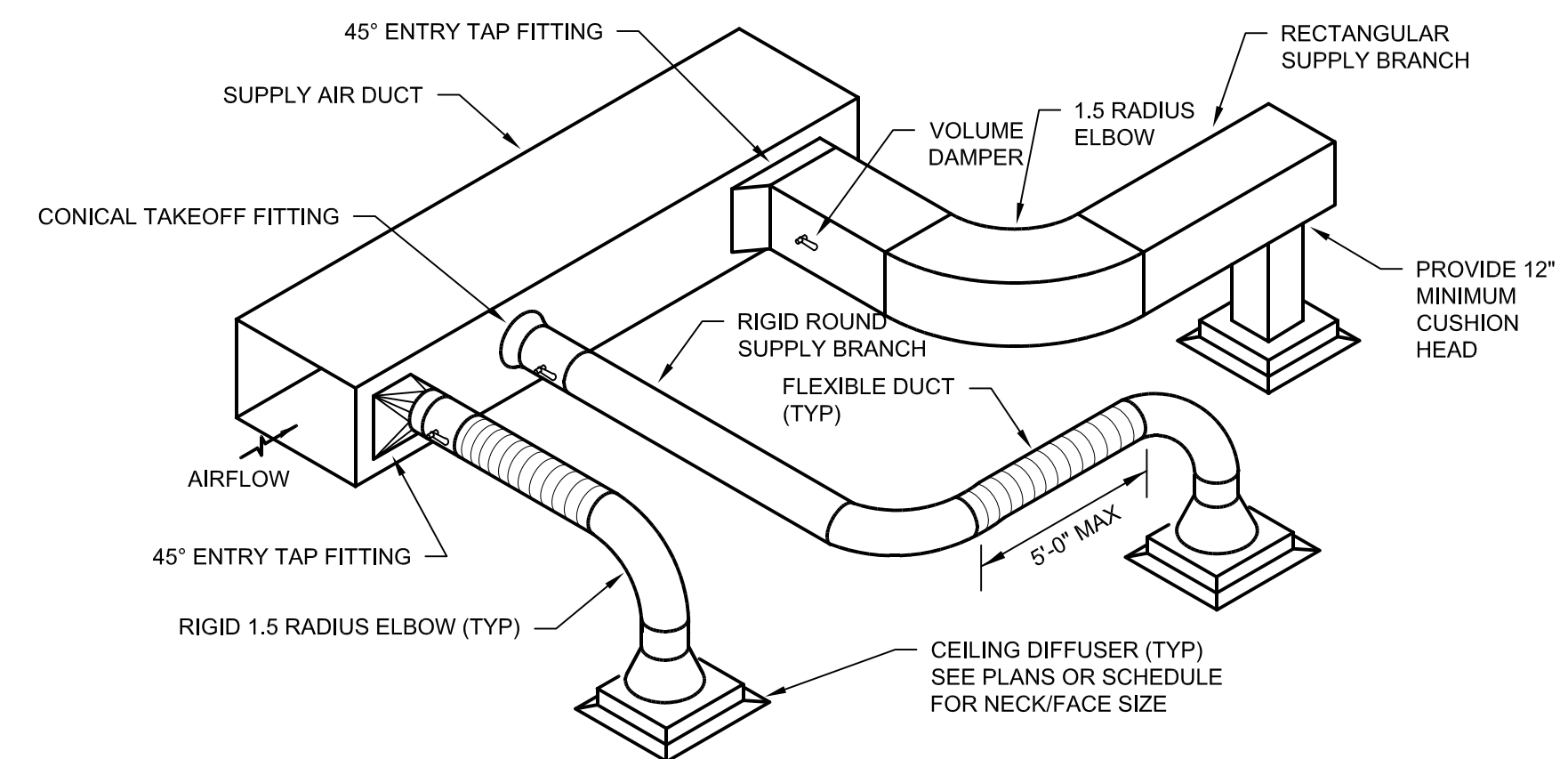
NOTE: FOR TOP CONNECTION PROVIDE MINIMUM 6" PLENUM HEIGHT

7 FILTER GRILLE DETAIL
M3.0 SCALE: NONE



NOTE: CAULKING SHALL BE 1/2" DEEP BUTYL RUBBER.

4 PIPE OR DUCT SLEEVE DETAIL
M3.0 SCALE: NONE



1 BRANCH DUCT & DIFFUSER CONNECTION
M3.0 SCALE: NONE

PROJECT
FEN OAK SECOND FLOOR RENOVATIONS

LYMAN F. ANDERSON AGRICULTURE AND CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

DRAWING
DETAILS - HVAC

DATE
04.30.15

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M3.0

Architecture
Planning

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ISSUED

PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

LYMAN F. ANDERSON
AGRICULTURE AND
CONSERVATION CENTER
5201 FEN OAK DRIVE
MADISON, WI

DRAWING
SCHEDULES - HVAC

DATE
04.30.15

M4.0

AIR DEVICE SCHEDULE

UNIT NO.	CD-1	RG-1	TG-1	TG-2	EG-1
SERVICE	SUPPLY	RETURN	TRANSFER	TRANSFER	TRANSFER
MANUFACTURER	CARNES	CARNES	CARNES	CARNES	CARNES
MODEL NO.	SKTA	RSABH	RSABH	RSABH	RSABH
FACE STYLE	LOUVERED	SINGLE DEFLECTION	SINGLE DEFLECTION	SINGLE DEFLECTION	SINGLE DEFLECTION
FINISH	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
MATERIAL	STEEL	STEEL	STEEL	STEEL	STEEL
SIZE (FACE/NECK)	SEE PLANS	24X24 / 22X22	24X24 / 22X22	14X12 / 12X10	12X12 / 10X10
CFM RANGE	-	-	-	-	-
MOUNTING	SEE PLANS	LAY IN	LAY IN	SURFACE	SURFACE
DAMPER	NO	NO	NO	NO	NO
REMARKS		①②	②		

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY MOUNTING SURFACE / FRAME REQUIREMENTS.
- BRANCH DUCT SIZE TO DIFFUSER SHALL BE THE NECK SIZE OF THE DIFFUSER UNLESS NOTED OTHERWISE.
- SEE SPECIFICATION FOR GRILLE, REGISTER, AND DIFFUSER FINISHES.
- MAXIMUM STATIC PRESSURE DROP THROUGH GRILLE, REGISTER, OR DIFFUSER SHALL NOT EXCEED 0.1".
- MAXIMUM NC LEVELS FOR GRILLES, REGISTERS, OR DIFFUSERS SHALL NOT EXCEED 25.
- UNLESS THROW IS NOTED OTHERWISE, ALL DIFFUSERS SHALL BE 4-WAY THROW.

KEYED NOTES:

- ① PROVIDE WITH INTEGRAL FILTER.
② PROVIDE WITH 22X22 PLENUM BOX WITH DUCT CONNECTION LISTED ON PLANS.

FAN SCHEDULE

UNIT NO.	TF-1
LOCATION	SEE PLANS
MANUFACTURER	GREENHECK
MODEL NO.	SP-A710
SERVICE	DATA 239
FAN TYPE	CEILING
ARRANGEMENT	-
DESIGN CFM	400
EXT. SP (IN WC)	0.5
FAN WHEEL TYPE	-
FAN DIAMETER	-
APPROXIMATE FAN RPM	1,050
BHP	-
MOTOR HP	285 W
VOLTS/PHASE	115 / 1
DRIVE	DIRECT
TWO SPEED	NO
VFD	NO
MAX. SONES	5.5
REMARKS	①②

KEYED NOTES:

- ① HC TO FURNISH LINE VOLTAGE REVERSE ACTING THERMOSTAT TO EC. EC TO PROVIDE POWER TO FAN AND CONTROL WIRING BETWEEN FAN AND THERMOSTAT.
② PROVIDE FAN WITH FACTORY MOUNTED DISCONNECT.

WATER SOURCE HEAT PUMP UNIT SCHEDULE

UNIT NO.	HPU-200	HPU-218	HPU-230	
SERVICE	SEE PLANS	SEE PLANS	SERVER 230	
MANUFACTURER	CARRIER	CARRIER	CARRIER	
MODEL NO.	50PSH007	50PSH030	50PSH042	
AIR FLOW (CFM)	320	1,050	1,200	
OUTSIDE AIR CFM	60	70	-	
EXT. SP. (IN WC)	0.38	0.38	0.38	
FAN MOTOR HP	-	-	-	
MOTOR TYPE	PSC	PSC	PSC	
FILTER	NONE	NONE	NONE	
COOLING COIL DATA	EAT (°F) DB/WB	75.9 / 62.9	75.2 / 62.2	80 / 62
	LAT (°F) DB/WB	58.0 / 56.1	55.5 / 54.2	54.5 / 50.5
	EWTD (°F)	90.0	90.0	90.0
	LWTD (°F)	100.0	98.2	98.3
	TOTAL CAPACITY (MBH)	6.2	26.0	37.3
	MIN. EER	11.8	14.4	15.9
HEATING COIL DATA	GPM	1.5	7.5	10.5
	MAX. WPD (FT WC)	3.0	3.7	6.3
	EAT (°F)	64.6	68.9	80.0
	LAT (°F)	87.2	93.2	111.5
	EWTD (°F)	60.0	60.0	60.0
	LWTD (°F)	51.3	53.2	53.8
ELECTRICAL DATA	TOTAL CAPACITY (MBH)	7.8	30.2	40.5
	MIN. COP	5.0	5.4	4.4
	GPM	1.5	7.5	10.5
	MAX. WPD (FT WC)	3.0	3.7	6.3
	VOLTAGE/PHASE	208 / 1	208 / 1	208 / 1
	CYCLE	60	60	60
MINIMUM CIRCUIT AMPS	4.0	20.0	28.0	
MOCP	15.0	25.0	35.0	
REMARKS	①	①	①	

KEYED NOTES:

- ① PROVIDE UNIT WITH INTEGRAL DISCONNECT AND METALLIC FLEXIBLE HOSE KIT. UNIT MUST BE CAPABLE OF COMMUNICATING WITH EXISTING JOHNSON CONTROL BUILDING AUTOMATION SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRIC BASEBOARD SCHEDULE

UNIT NO.	EBB-1	EBB-2	EBB-3	EBB-4
SERVICE	OPEN OFFICE 238	PARKS OFFICE 221	OFFICE NRCS 229	WATER OFFICE 218A
LOCATION	OPEN OFFICE 238	PARKS OFFICE 221	OFFICE NRCS 229	WATER OFFICE 218A
MANUFACTURER	VULCAN	VULCAN	VULCAN	VULCAN
MODEL NO.	LBT-PD	LBT	LBT-PD	LBT-PD
LENGTH (IN)	48"	48"	48"	72"
DENSITY (WATTS/FT)	500	250	250	250
CAPACITY (BTU/HR)	6,824	3,412	3,412	5,118
KW INPUT	2.0	1.0	1.0	1.5
VOLTS	277	277	277	277
PHASE	1	1	1	1
REMARKS	①	②	①	①

GENERAL NOTES:

- ARCHITECT TO DETERMINE FINAL COLOR DURING SUBMITTAL PROCESS.
- BASEBOARD TO BE INTERLOCKED WITH CORRESPONDING HEAT PUMPS UNIT. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL REQUIREMENTS.

KEYED NOTES:

- ① PROVIDE UNIT WITH PEDESTAL MOUNTS, END CAPS, FINISHED BACKS, AND INTEGRAL DISCONNECT. COORDINATE FINAL COLOR WITH ARCHITECT.
② PROVIDE UNIT WITH WALL MOUNTING KIT, END CAPS, AND INTEGRAL DISCONNECT. COORDINATE FINAL COLOR WITH ARCHITECT.

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ISSUED

PROJECT
FEN OAK SECOND FLOOR
RENOVATIONS

LYMAN F. ANDERSON
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MADISON, WI

DRAWING
SYMBOLS & SCHEDULES
ELECTRICAL

DATE
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RECEPTACLE SCHEDULE

SYMBOL	DESCRIPTION	NEMA	VOLTS	NOTE 1
	2 CIRCUIT POWER POKE THRU FLOOR BOX - FURNITURE CONNECTION		120V 1P 2W	CONNECT TO PREWIRED FURNITURE WHIP. SEE DETAIL 1/E9.0
	3 CIRCUIT POWER POKE THRU FLOOR BOX - FURNITURE CONNECTION		120V 1P 2W	CONNECT TO PREWIRED FURNITURE WHIP. SEE DETAIL 1/E9.0
	DATA RACK RECEPTACLE	L5-30R	120V 1P 2W	PROVIDE TWIST LOCK RECEPTACLE AT 16" AFF
	DOUBLE DUPLEX RECPT	5-20R	120V 1P 2W	MOUNT AT 16" AFF UNLESS NOTED OTHERWISE.
	DUPLEX	5-20R	120V 1P 2W	MOUNT AT 16" AFF UNLESS NOTED OTHERWISE.
	GFI COUNTER DOUBLE DUPLEX RECPT	5-20R	120V 1P 2W	MOUNT AT 46" AFF OR 4" ABOVE BACKSPLASH WHERE MOUNTED ABOVE COUNTER.
	ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE	5-20R	120V 1P 2W	ORANGE RECEPTACLE. MOUNT AT 16" AFF UNLESS NOTED OTHERWISE.
	RAISED DUPLEX RECPT	5-20R	120V 1P 2W	MOUNT AT 46" AFF OR 4" ABOVE BACKSPLASH WHERE MOUNTED ABOVE COUNTER UNLESS NOTED OTHERWISE.

SWITCH SCHEDULE

SYMBOL	DESCRIPTION	NOTE 1	NOTE 2
	SINGLE POLE SWITCH	MOUNT AT 46" TO CENTER UNLESS OTHERWISE NOTED	
	THREE WAY SWITCH	MOUNT AT 46" TO CENTER UNLESS OTHERWISE NOTED	
	TYPE A OCCUPANCY SENSOR	DUAL TECHNOLOGY LOW VOLTAGE 360 DEGREE STANDARD RANGE CEILING SENSOR W/ ISOLATED LOW VOLTAGE RELAY	SENSORSWITCH CM PDT 9 R. ACCEPTABLE EQUAL MODELS: WATTSTOPPER, LEVITON, HUBBEL
	TYPE B OCCUPANCY SENSOR	PIR SINGLE RELAY LINE VOLTAGE WALL SENSOR WITH SELECTABLE SETTINGS FOR OCCUPANCY OR VACANCY. MOUNT AT 46" TO CENTER UNLESS OTHERWISE NOTED	SENSORSWITCH WSD SA WH. ACCEPTABLE EQUAL MODELS: WATTSTOPPER, LEVITON, HUBBEL
	TYPE C OCCUPANCY SENSOR	PIR, DUAL RELAY, LINE VOLTAGE WALL SENSOR WITH SELECTABLE SETTINGS FOR OCCUPANCY OR VACANCY. MOUNT AT 46" TO CENTER UNLESS OTHERWISE NOTED	SENSORSWITCH WSD 2P 2SA WH. ACCEPTABLE EQUAL MODELS: WATTSTOPPER, LEVITON, HUBBEL

EQUIPMENT SCHEDULE

SYMBOL	LABEL	DESCRIPTION	VOLTS	AMPS	KVA	HP	CIRCUIT	CONTROL TYPE	PROVIDED BY	INSTALLED BY	NOTE 1
	EBB-1(1)	PEDESTAL MOUNT ELECTRIC BASEBOARD HEATER	277V 1P 2W	7.2	2		PANEL C-68	INTEGRAL	HC	HC	FEED POWER FROM FLOOR THROUGH UNIT PEDESTAL.
	EBB-1(2)	PEDESTAL MOUNT ELECTRIC BASEBOARD HEATER	277V 1P 2W	7.2	2		PANEL C-68	INTEGRAL	HC	HC	FEED POWER FROM FLOOR THROUGH UNIT PEDESTAL.
	EBB-1(3)	PEDESTAL MOUNT ELECTRIC BASEBOARD HEATER	277V 1P 2W	7.2	2		PANEL C-70	INTEGRAL	HC	HC	FEED POWER FROM FLOOR THROUGH UNIT PEDESTAL.
	EBB-2	WALL MOUNT ELECTRIC BASEBOARD HEATER	277V 1P 2W	3.6	1		PANEL C-72	INTEGRAL	HC	HC	
	EBB-3	PEDESTAL MOUNT ELECTRIC BASEBOARD HEATER	277V 1P 2W	3.6	1		PANEL C-70	INTEGRAL	HC	HC	FEED POWER FROM FLOOR THROUGH UNIT PEDESTAL.
	EBB-4	PEDESTAL MOUNT ELECTRIC BASEBOARD HEATER	277V 1P 2W	5.4	1.5		PANEL C-72	INTEGRAL	HC	HC	FEED POWER FROM FLOOR THROUGH UNIT PEDESTAL.
	HPU-200	HEAT PUMP UNIT	208V 2P 2W	4.2	0.86	1/3 HP	PANEL F-31,33	LOW VOLTAGE	HC	HC	EC TO PROVIDE NON-FUSED DISCONNECT AT UNIT
	HPU-218	HEAT PUMP UNIT	208V 2P 2W	19.6	4.08	3 HP	PANEL F-35,37	LOW VOLTAGE	HC	HC	EC TO PROVIDE NON-FUSED DISCONNECT AT UNIT
	HPU-230	HEAT PUMP UNIT	208V 2P 2W	32.3	6.72	5 HP	PANEL F-39,41	LOW VOLTAGE	HC	HC	EC TO PROVIDE NON-FUSED DISCONNECT AT UNIT
	TCP	TEMPERATURE CONTROL PANEL	120V 1P 2W	4.2	0.5		PANEL D-29	LINE VOLTAGE	HC	EC	EC TO PROVIDE A DEDICATED 120V CIRCUIT AND ROUTE ONE CAT 6 CABLE TO COMMUNICATIONS PATCH PANEL.
	TF-1	TRANSFER FAN	120V 1P 2W	3.5	0.42	1/10 HP	PANEL D-30	LINE VOLTAGE	HC	EC	EC TO PROVIDE TOGGLE SWITCH DISCONNECT AT UNIT

LOW VOLTAGE DEVICE SCHEDULE

SYMBOL	TYPE	NOTE 1	NOTE 2	NOTE 3
	LV DEVICE TYPE A	THREE ORANGE COLORED JACKS IN SINGLE GANG FACE PLATE.	ROUTE THREE BLUE CAT 6 CABLES TO DATA ROOM 239.	MOUNT AT 16" TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
	LV DEVICE TYPE A(E)	THREE ORANGE COLORED JACKS IN SINGLE GANG FACE PLATE.	REROUTE THREE BLUE CAT 6 CABLES FROM ABANDONED DEVICE LOCATION.	MOUNT AT 16" TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
	LV DEVICE TYPE B	FOUR GREEN COLORED JACKS IN SINGLE GANG FACE PLATE.	ROUTE FOUR WHITE CAT 6 CABLES TO DATA ROOM 230. ROUTE THREE BLUE CAT 6 SPARE CABLES TO DATA ROOM 239 FOR FUTURE USE. SPARE CABLES TO BE TERMINATED, TESTED AND LABELED AT EACH END.	MOUNT AT 16" TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
	LV DEVICE TYPE C	FOUR GREEN COLORED JACKS IN SINGLE GANG FACE PLATE.	ROUTE FOUR WHITE CAT 6 CABLES TO DATA ROOM 230.	MOUNT AT 16" TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
	LV DEVICE TYPE D	TWO ORANGE COLORED JACKS IN SINGLE GANG FACE PLATE.	ROUTE TWO BLUE CAT 6 CABLES TO DATA ROOM 239.	MOUNT AT 16" TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
	LV DEVICE TYPE D - RAISED	TWO ORANGE COLORED JACKS IN SINGLE GANG FACE PLATE.	ROUTE TWO BLUE CAT 6 CABLES TO DATA ROOM 239.	MOUNT AT 46" TO CENTER OF DEVICE.
	LV DEVICE TYPE HH	HDMI FEMALE CONNECTOR IN DECORATOR STYLE PLATE	INSTALL IN A 4" BACKBOX WITH A SINGLE GANG PLASTER RING. PROVIDE ONE (1) 1/4" CONDUIT BETWEEN UPPER AND LOWER BOXES. PROVIDE AND INSTALL HDMI CABLE BETWEEN UPPER AND LOWER BOXES. PROVIDE ONE (1) 1" CONDUIT FROM UPPER BOX TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.	MOUNT AT 54" TO CENTER OF DEVICE. COORDINATE LOCATION WITH MONITOR MOUNTING HARDWARE.
	LV DEVICE TYPE HL	HDMI FEMALE CONNECTOR IN DECORATOR STYLE PLATE	REFER TO TYPE HH DEVICE NOTE 2.	MOUNT AT 16" TO CENTER OF DEVICE.
	LV FLOOR POKE THRU	LOW VOLTAGE CABLE ACCESS FOR SYSTEM FURNITURE PARTITIONS.	SEE DETAIL 1/E9.0	
	WIRELESS ACCESS POINT	TERMINATE WITH A SURFACE MOUNT JACK (BISCUIT) AND A MINIMUM OF 10' CABLE LOOP ABOVE CEILING.	ROUTE ONE BLUE CAT 6 CABLE TO DATA ROOM 239.	EC TO INSTALL OWNER PROVIDED ACCESS POINT.

*WHERE DEVICE IS SHOWN ON SYSTEM FURNITURE, EXTEND CABLE FROM FLOOR OR WALL ACCESS THROUGH FURNITURE PATHWAY AND TERMINATE AT DEVICE LOCATION.

ACCESS CONTROL DEVICE SCHEDULE

SYMBOL	DESCRIPTION	NOTE 1
	CARD READER	TRIDIUM VYKON SEC-R2R CARD READER
	DOOR STATUS SENSOR	DOOR STATUS SENSOR
	ELECTRIC STRIKE	
	MAGNETIC LOCK	
	REQUEST EXIT	REQUEST TO EXIT

ACCESS CONTROL SYSTEM TO BE INCLUDED IN ALTERNATE BID #2

LUMINAIRE SCHEDULE

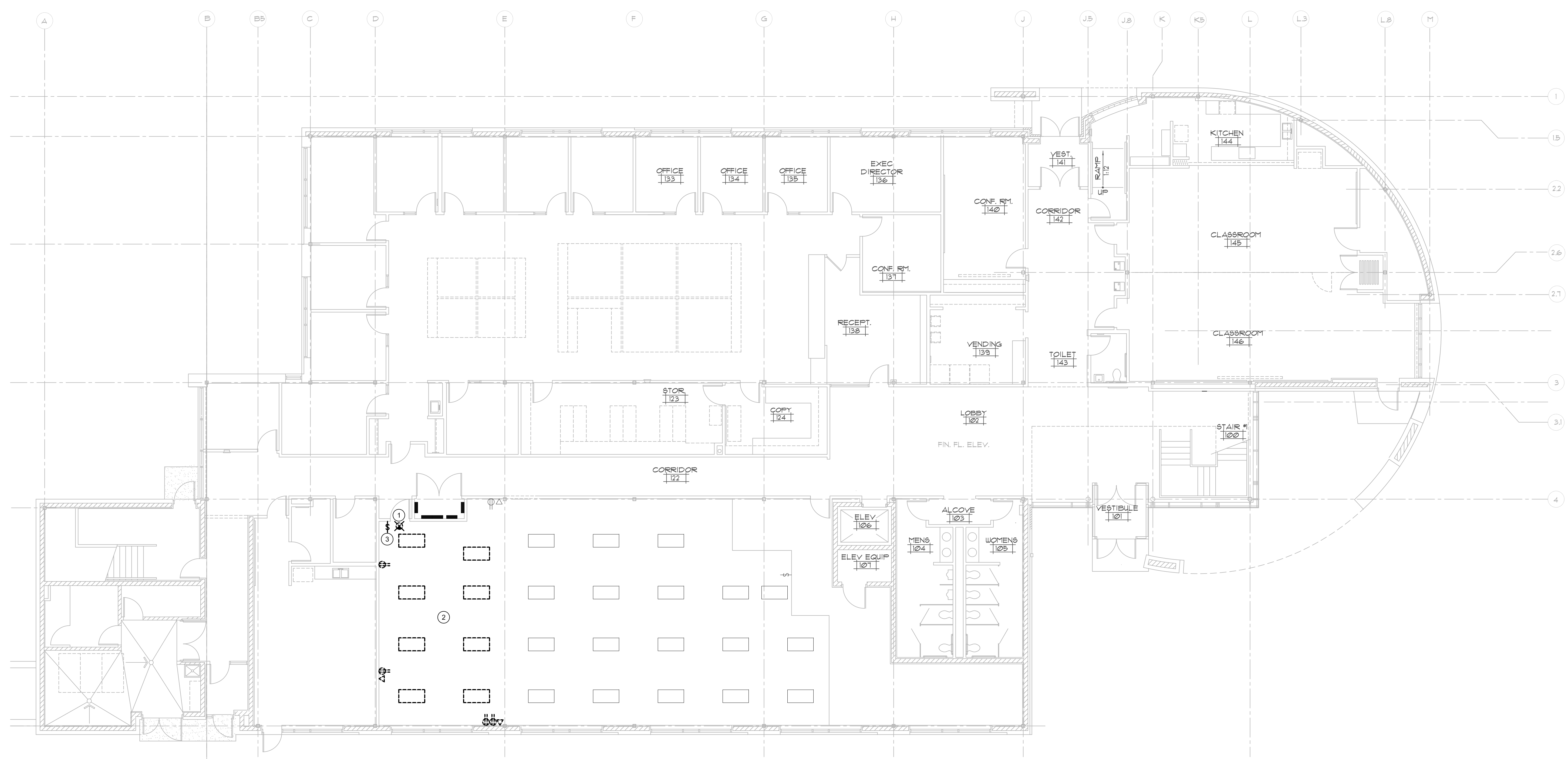
SYMBOL	TAG	LAMP	DESCRIPTION	MOUNTING	MODEL	VOLTS	NOTES
	A(E)	(3) 32W T8SP35	RELOCATED EXISTING 2X4 LAY-IN	CEILING		277V 1P 2W	
	B	(3) 28W T8 GE SPX41	2X4 LAY-IN ARCHITECTURAL	RECESSED	LITHONIA 2AV G328 MDR MVOLT METALUX 2RDI-328T8RP-UNV-HR82-U DAYBRITE CFS2GPF 328(T8)UNV-1/21-EBLHE	MULTIPLE	PROVIDE WITH ONE 2-LAMP AND 1-1 LAMP BALLAST W/.87 BALLAST FACTOR
	C	(1) 23W LED	6" RECESSED DOWNLIGHT	RECESSED	HALO PD612ED010 PDM6840-64VW USAI SHALLOW HOUSING 1020-DL-RD-BEVELED-10 LIGHTOLIER P6RD15 N Z10/P6R D 80 40/P6R D W	MULTIPLE	SHALLOW HOUSING - MAX HEIGHT 5 1/2"
	D	(2) 28W T8 GE SPX41	4" INDUSTRIAL	SURFACE	METALUX ICF-228-UNV-HB81 LITHONIA SERIES EJA DAYBRITE IS228(T8) UNV 1/2EBLHE	MULTIPLE	
	EM	(2) 1.5W LED	SELF POWERED EMERGENCY LIGHT	SURFACE	LITHONIA ELM2 LED ISOLITE RL2LED2WH CHLORIDE VU6L	MULTIPLE	CONNECT TO LIGHTING CIRCUIT SERVING LIGHTING IN SAME AREA
	G	(4) 32W T8SP35	NEW PENDANT FIXTURE	PENDANT	PMC EOVB-1-AC-T432-277V	277V 1P 2W	PROVIDE CONTINUOUS ROW AS INDICATED ON FLOOR PLAN, MATCH MOUNTING HEIGHT OF EXISTING FIXTURES.
	G(E)	(4) 32W T8SP35	RELOCATED EXISTING PENDANT FIXTURE	PENDANT		277V 1P 2W	MOVE ROW OF FIXTURES TO LOCATION SHOWN ON FLOOR PLAN
	H	(3) 17W T8 GE SPX41	2X2 LAY-IN ARCHITECTURAL	RECESSED	LITHONIA 2AV G317 MDR MVOLT METALUX 2RDI-317RP-UNV-HR82-U DAYBRITE CFS2GPF317 UNV-1/21-EBLHE	MULTIPLE	PROVIDE WITH ONE 2-LAMP AND 1-1 LAMP BALLAST W/.92 BALLAST FACTOR
	X	(1) 3W LED	UNIVERSAL MOUNT SELF POWERED EXIT LIGHT	WALL/CEILING	SURELITES SLX7SD LITHONIA SERIES LQM SELF DIAGNOSTIC PHILIPS CHLORIDE CCLX3RW	MULTIPLE	CONNECT TO LIGHTING CIRCUIT SERVING LIGHTING IN SAME AREA
	X(E)	(1)	RELOCATED EXISTING EXIT LIGHT	CEILING		277V 1P 2W	CONNECT TO LIGHTING CIRCUIT SERVING LIGHTING IN SAME AREA

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1 PARTIAL FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
 E1.1 SCALE: 1/8"=1'-0"



GENERAL NOTES:

1. DASHED LINES INDICATE LIGHTING OR DEVICE TO BE REMOVED OR RELOCATED. LIGHT SOLID LINES INDICATE LIGHTING OR DEVICES TO REMAIN. LIGHTING AND DEVICE IN ROOMS WHERE NO WORK IS INCLUDED MAY NOT BE SHOWN ON THIS DRAWING.

2. EXISTING CIRCUITS TO BE REUSED AND REROUTED AS REQUIRED TO NEW LIGHTING AND DEVICE LOCATIONS.

KEYED NOTES:

- ① REMOVE EXISTING EXIT LIGHT AND RELOCATE AS INDICATED ON NEW WORK PLAN.
- ② REMOVE EXISTING 2X4 FLUORESCENT FIXTURES. RE-BALLAST, RELAMP AND CLEAN FOR RE-INSTALLATION AS INDICATED ON NEW WORK PLAN.
- ③ RELOCATE EXISTING 3 WAY SWITCH AND RELATED WIRING TO LOCATION INDICATED ON NEW WORK PLAN.

PROJECT
 FEN OAK SECOND FLOOR
 RENOVATIONS

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DRAWING
 PARTIAL FIRST FLOOR
 DEMOLITION PLAN
 ELECTRICAL
DATE
 04.30.15

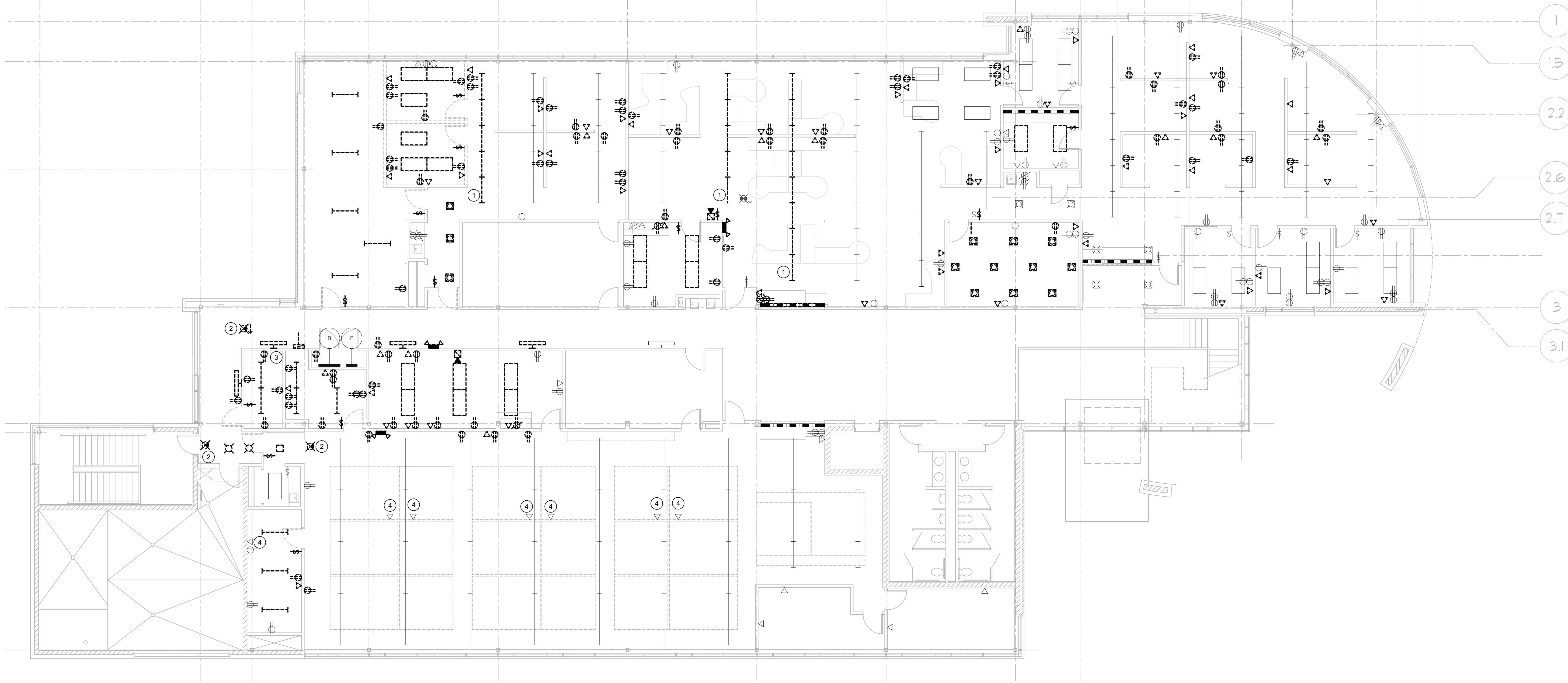
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1 PARTIAL SECOND FLOOR DEMOLITION PLAN - ELECTRICAL
E1.2 SCALE: 1/8"=1'-0" NORTH

GENERAL NOTES:

- 1. DASHED LINES INDICATE LIGHTING OR DEVICE TO BE REMOVED OR RELOCATED. LIGHT SOLID LINES INDICATE LIGHTING OR DEVICES TO REMAIN. LIGHTING AND DEVICE IN ROOMS WHERE NO WORK IS INCLUDED MAY NOT BE SHOWN ON THIS DRAWING.
- 2. EXISTING CIRCUITS TO BE REUSED AND REROUTED AS REQUIRED TO NEW LIGHTING AND DEVICE LOCATIONS.
- 3. ALL REMOVED LIGHT FIXTURES NOT SCHEDULE TO BE RE-INSTALLED ARE TO BE TURNED OVER TO OWNER.

KEYED NOTES:

- 1 EXISTING LINEAR PENDANT LIGHT FIXTURES TO BE REMOVED AND RELOCATED AS INDICATED ON NEW LIGHTING FLOOR PLAN.
- 2 REMOVE EXISTING EXIT LIGHT FIXTURE. RE-INSTALL AS INDICATED ON NEW WORK PLAN.
- 3 EXISTING COMMUNICATIONS CABLING FEEDING DEVICES TO REMAIN THAT ARE ROUTED INTO THIS ROOM FROM CEILING SPACE BELOW IS TO BE REMOVED FROM PATCH PANEL AND CAREFULLY REROUTED THROUGH NEW CORED HOLES IN NEW DATA ROOM.
- 4 DISCONNECT EXISTING CABLE ROUTED TO ROOM 230 FROM DATA JACK AT THIS LOCATION. CABLE TO REMAIN IN PLACE FOR FUTURE USE.

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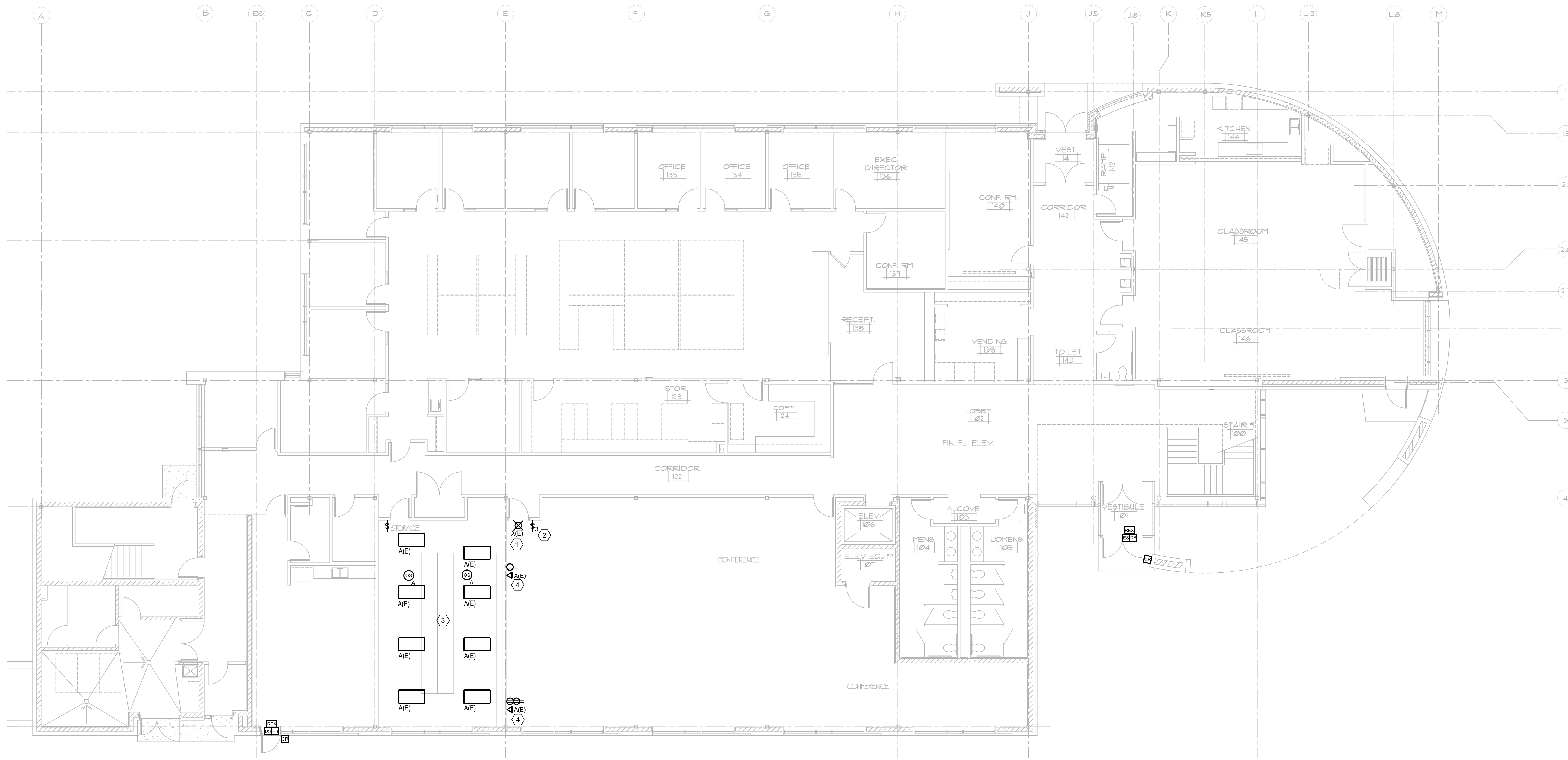
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1 PARTIAL FIRST FLOOR NEW WORK PLAN - ELECTRICAL
E2.1 SCALE: 1/8"=1'-0"



GENERAL NOTES:

- 1. EXISTING CIRCUITS TO BE REUSED AND REROUTED AS REQUIRED TO NEW LIGHTING AND DEVICE LOCATIONS.

KEYED NOTES:

- ① RELOCATED EXIT LIGHT.
- ② RELOCATE EXISTING 3 WAY SWITCH AND RELATED WIRING
- ③ RE-INSTALL EXISTING FIXTURES. CONNECT TO EXISTING LIGHTING CIRCUIT IN AREA THROUGH OCCUPANCY SENSORS AND WALL SWITCH CONTROL.
- ④ RELOCATE EXISTING COMMUNICATIONS OUTLET RE-USING EXISTING CABLES, JACK AND FACEPLATE.

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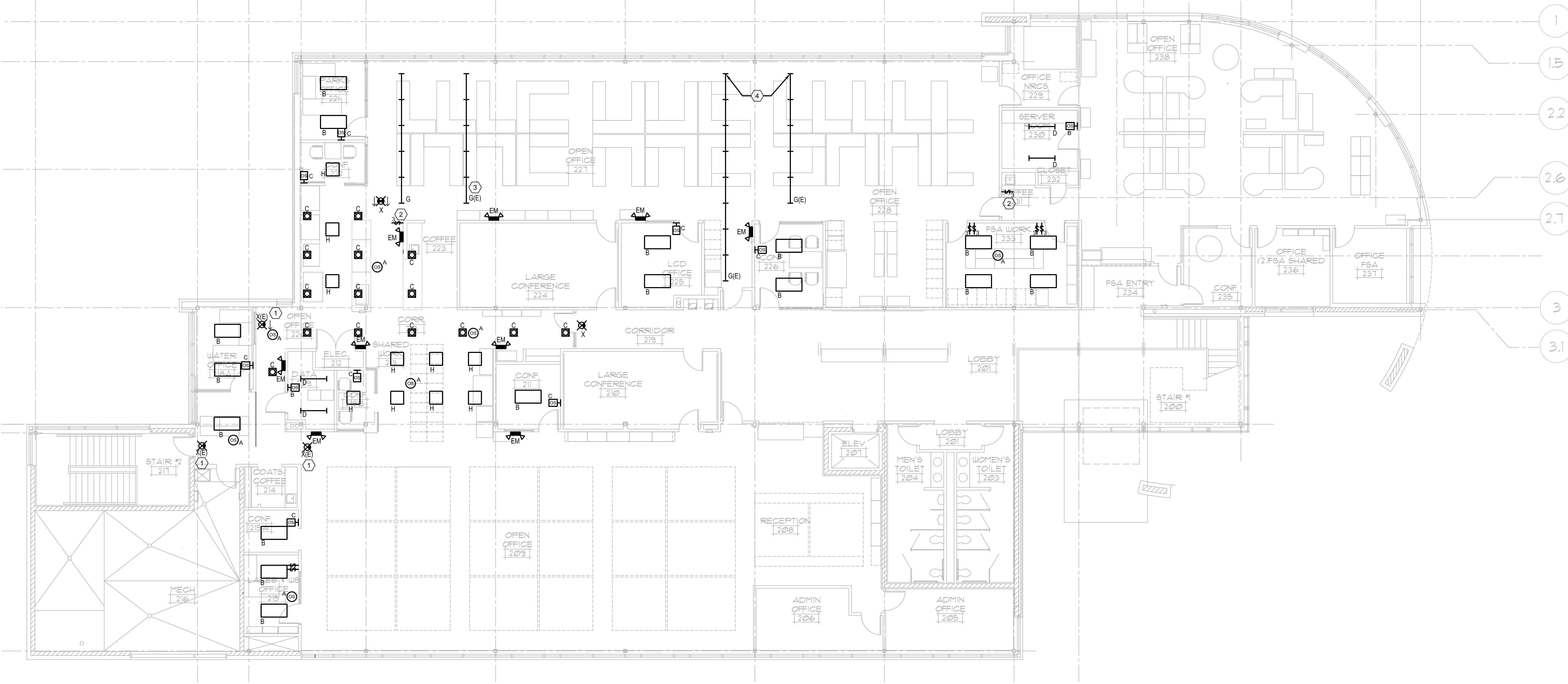
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1 PARTIAL SECOND FLOOR NEW WORK PLAN - LIGHTING
E2.2 SCALE: 1/8"=1'-0" NORTH

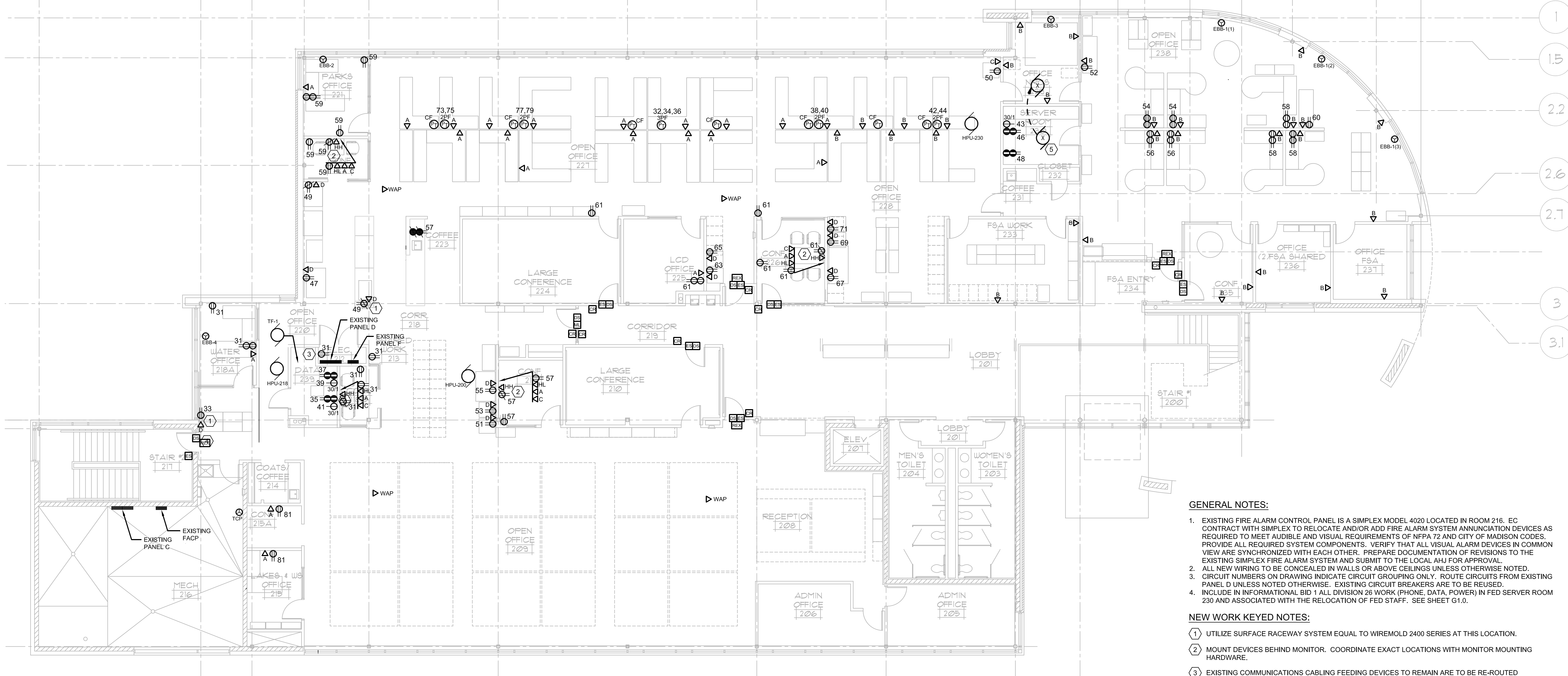
- GENERAL NOTES:**
1. RECONNECT EXISTING LIGHTING CIRCUITS TO NEW OR RELOCATED LIGHT FIXTURES THROUGH INDICATED LIGHTING CONTROL.
 2. COORDINATE EXACT CEILING MOUNTED FIXTURE LOCATIONS WITH ARCHITECTURAL CEILING PLANS.
 3. SEE SHEET E9.0 FOR LIGHTING CONTROL WIRING DETAILS.
- KEYED NOTES:**
- 1 RELOCATED EXIT LIGHT.
 - 2 RELOCATE EXISTING 3 WAY SWITCH AND RELATED WIRING
 - 3 RE-INSTALL EXISTING LINEAR PENDANT FIXTURE ROW MATCHING SPACING OF REMAINING FIXTURE ROWS.
 - 4 EXCHANGE LOCATIONS OF EXISTING ROWS OF LINEAR PENDANT FIXTURES.

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1 PARTIAL SECOND FLOOR NEW WORK PLAN - POWER & SYSTEMS
E2.3 SCALE: 1/8"=1'-0"



GENERAL NOTES:

1. EXISTING FIRE ALARM CONTROL PANEL IS A SIMPLEX MODEL 4020 LOCATED IN ROOM 216. EC CONTRACT WITH SIMPLEX TO RELOCATE AND/OR ADD FIRE ALARM SYSTEM ANNUNCIATION DEVICES AS REQUIRED TO MEET AUDIBLE AND VISUAL REQUIREMENTS OF NFPA 72 AND CITY OF MADISON CODES. PROVIDE ALL REQUIRED SYSTEM COMPONENTS. VERIFY THAT ALL VISUAL ALARM DEVICES IN COMMON VIEW ARE SYNCHRONIZED WITH EACH OTHER. PREPARE DOCUMENTATION OF REVISIONS TO THE EXISTING SIMPLEX FIRE ALARM SYSTEM AND SUBMIT TO THE LOCAL AHJ FOR APPROVAL.
2. ALL NEW WIRING TO BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS OTHERWISE NOTED.
3. CIRCUIT NUMBERS ON DRAWING INDICATE CIRCUIT GROUPING ONLY. ROUTE CIRCUITS FROM EXISTING PANEL D UNLESS NOTED OTHERWISE. EXISTING CIRCUIT BREAKERS ARE TO BE REUSED.
4. INCLUDE IN INFORMATIONAL BID 1 ALL DIVISION 26 WORK (PHONE, DATA, POWER) IN FED SERVER ROOM 230 AND ASSOCIATED WITH THE RELOCATION OF FED STAFF. SEE SHEET G1.0.

NEW WORK KEYED NOTES:

1. UTILIZE SURFACE RACEWAY SYSTEM EQUAL TO WIREMOLD 2400 SERIES AT THIS LOCATION.
2. MOUNT DEVICES BEHIND MONITOR. COORDINATE EXACT LOCATIONS WITH MONITOR MOUNTING HARDWARE.
3. EXISTING COMMUNICATIONS CABLING FEEDING DEVICES TO REMAIN ARE TO BE RE-ROUTED TO NEW COMMUNICATIONS RACK. CORE NEW HOLES IN NEW COMMUNICATIONS ROOM FLOOR. CABLING FROM CEILING SPACE BELOW TO BE ROUTED THROUGH NEW CORED HOLES AND EXTENDED TO NEW RACK LOCATION ON 6" WALL MOUNTED TRAY @ 1' AFF. ALL REUSED CABLES TO BE TESTED PRIOR TO RECONNECTING TO PATCH PANEL.
4. FIRE ALARM CONTRACTOR TO PROVIDE SIGNAL TO ACCESS SYSTEM MAIN CONTROLLER TO DEACTIVATE DOOR LOCK UPON ALARM CONDITION. SEE ACCESS CONTROL SYSTEM DETAIL ON SHEET E9.0
5. DISCONNECT AND RECONNECT POWER FOR EXISTING HPU-228(E) ABOVE CEILING AS REQUIRED FOR RELOCATION AS SHOWN.

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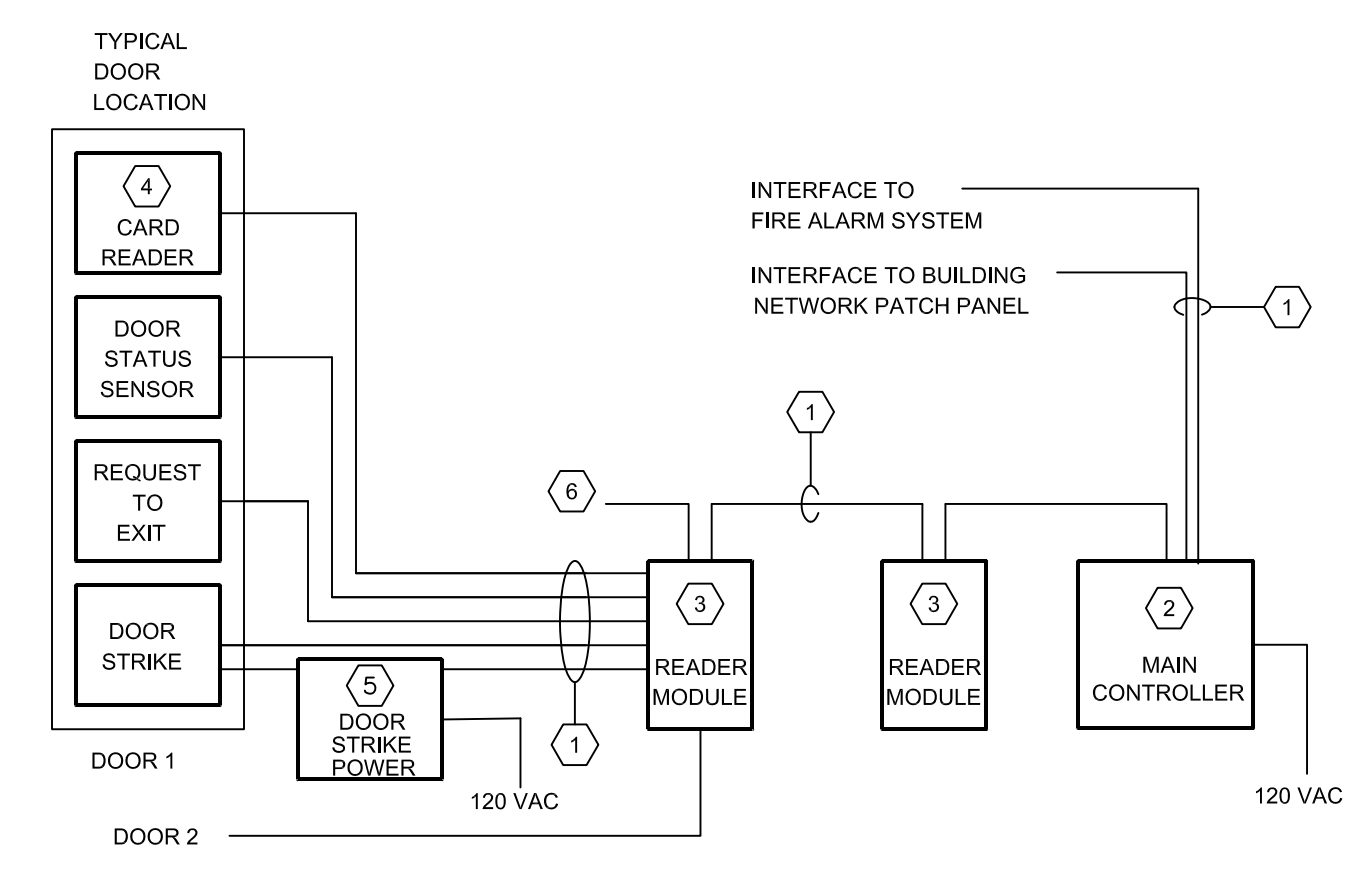
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E2.3

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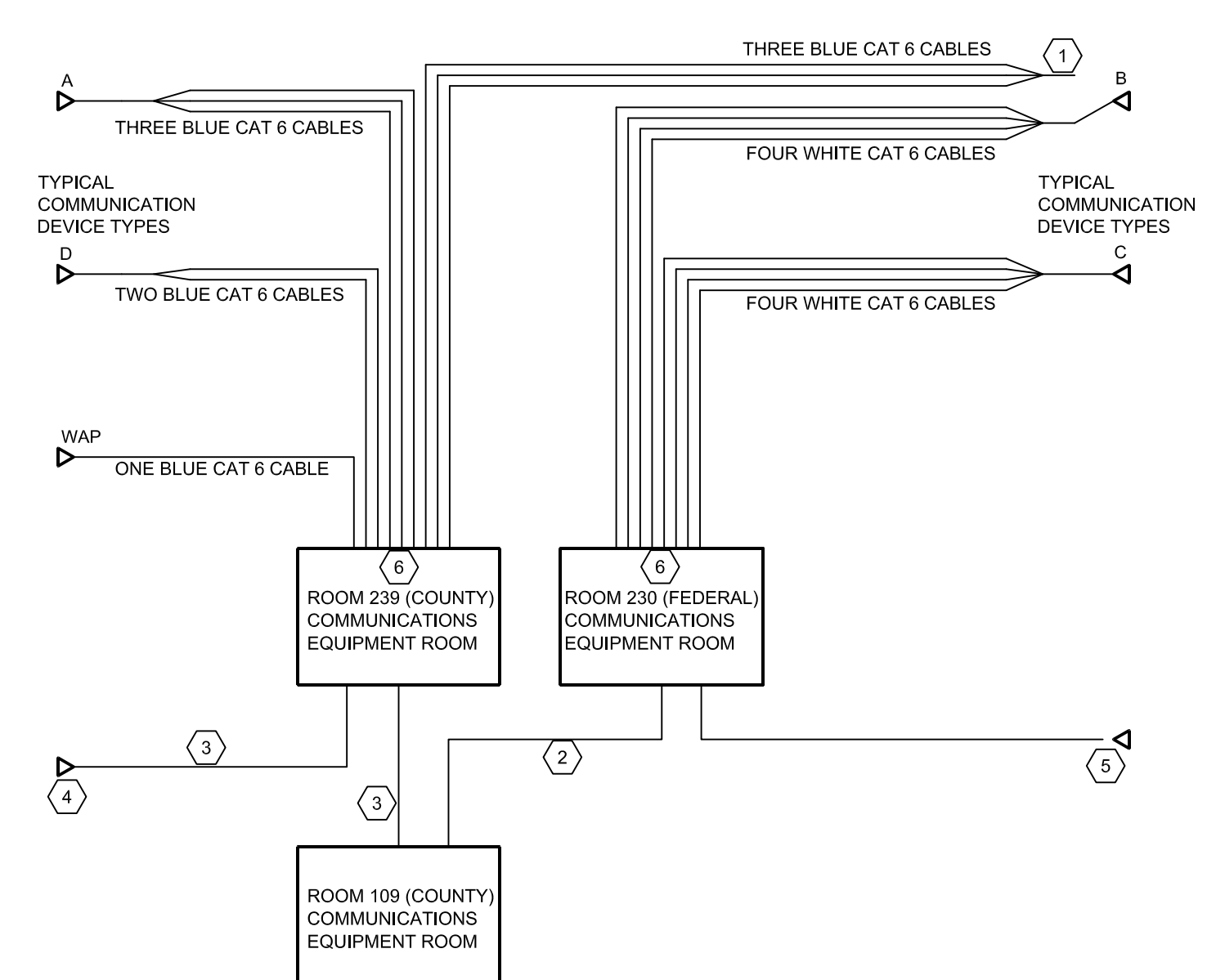
GENERAL NOTE:

- ACCESS CONTROL SYSTEM TO BE INCLUDED IN ALTERNATE BID #2

KEY NOTES:

- CABLES AND CONNECTORS AS RECOMMENDED BY MANUFACTURER.
- WEB BASED VYKON JACE MODEL 601 WITH INTEGRAL POWER SUPPLY AND BATTERY BACK UP
- VYKON MODEL SEC-R2R WITH REQUIRED I/O TO SUPPORT TWO DOORS.
- WIEGAND STYLE CARD READER COMPATIBLE WITH VYKON SYSTEM.
- 24 VOLT MAXIMUM (AC OR DC) DOOR STRIKE POWER SUPPLY INDEPENDENT OF CONTROLLER POWER.
- CONTINUE WIRING TO ADDITIONAL READER MODULES

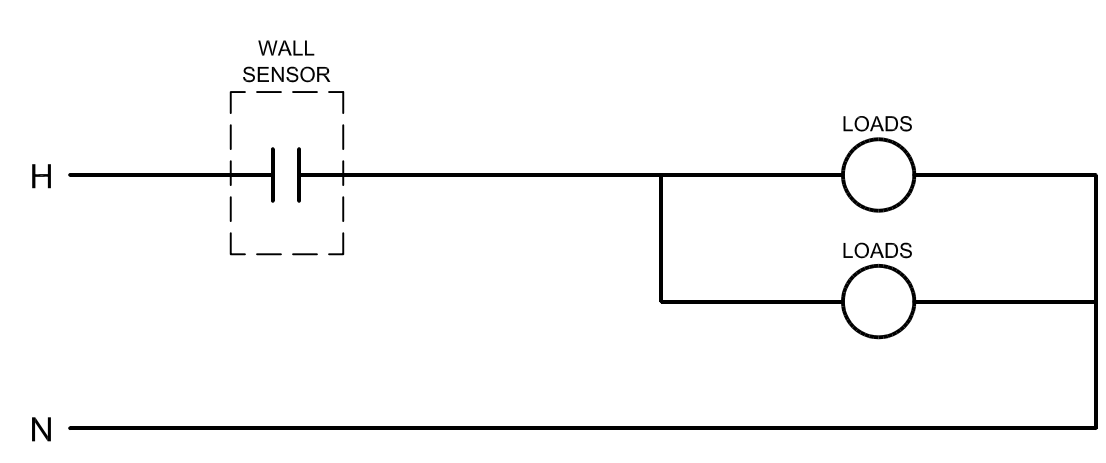
7 ACCESS CONTROL SYSTEM DETAIL
E9.0 SCALE: NONE



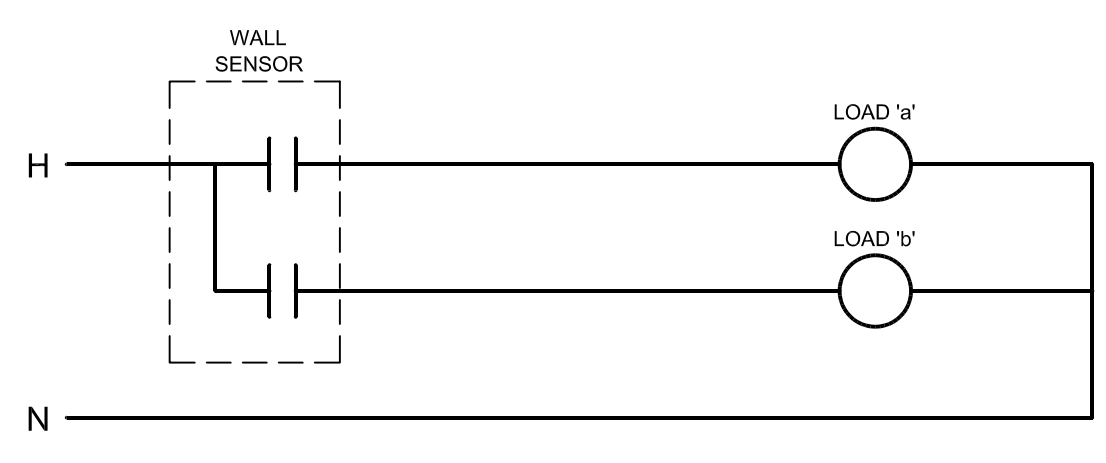
KEY NOTES:

- TERMINATE CABLE END AND LEAVE 8" CABLE IN TYPE B DEVICE BOX FOR FUTURE CONNECTION PURPOSES.
- 25 PAIR CABLE FROM AT&T DEMARCATION TO NEW 110 BLOCK IN ROOM 230.
- EXISTING CABLING TO BE RE-ROUTED FROM EXISTING COMMUNICATIONS RACK LOCATION ON SECOND FLOOR TO NEW COMMUNICATIONS RACK LOCATION IN ROOM 239.
- TYPICAL EXISTING COMMUNICATIONS DEVICE REMAINING IN SERVICE AND NOT INDICATED ON DRAWINGS.
- TYPICAL EXISTING COMMUNICATIONS DEVICE CONNECTED TO ROOM 230 COMMUNICATIONS RACK AND NOT INDICATED ON DRAWINGS TO BE USED. REMOVE TERMINATION AT DEVICE.
- PROVIDE NEW RACK MOUNTED PATCH PANELS AS SPECIFIED FOR THE QUANTITY OF CABLES REQUIRED. CONNECTIONS FROM PATCH PANEL TO EQUIPMENT TO BE BY AGENCY IT PERSONNEL.

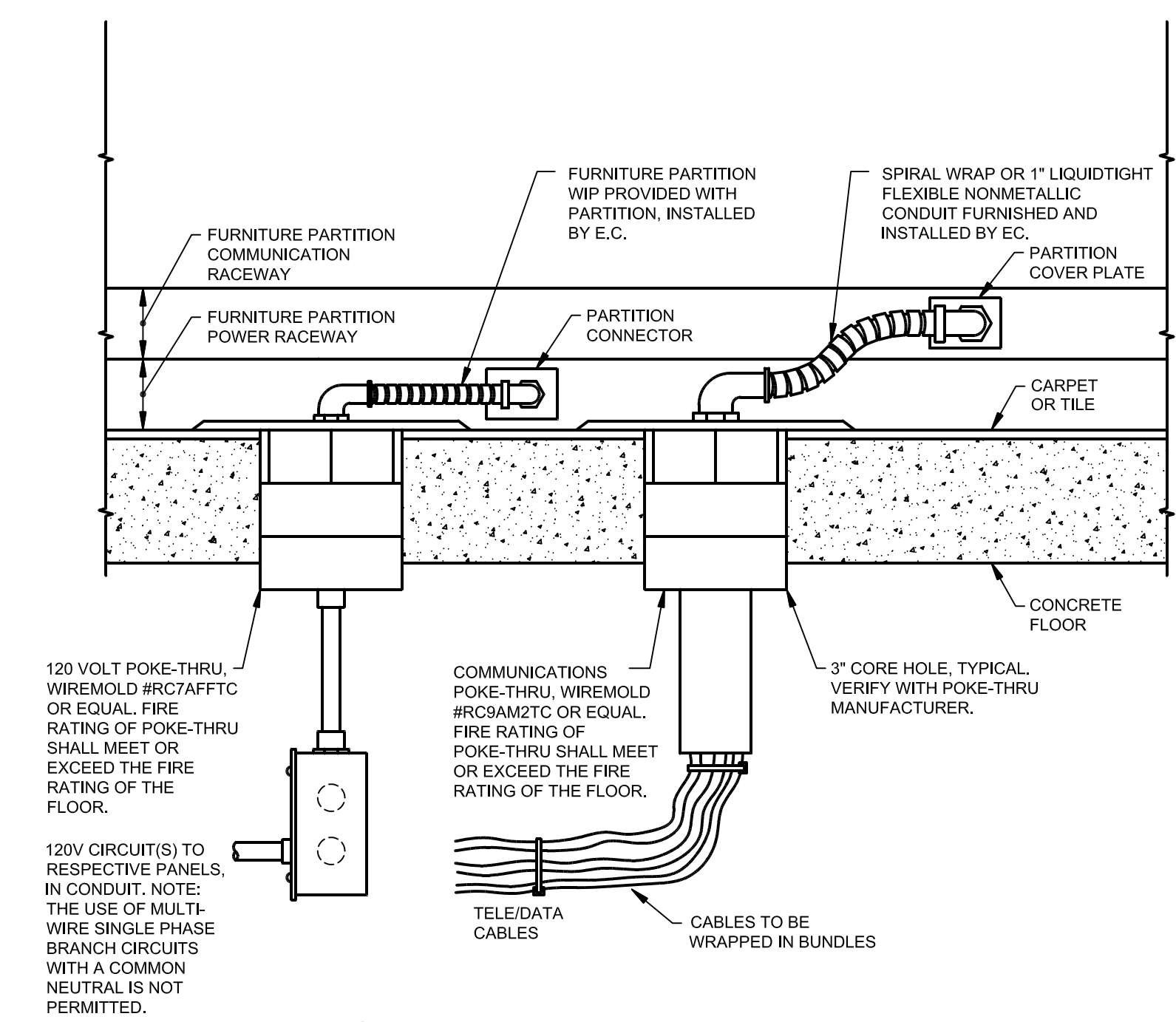
6 COMMUNICATION CABLING DETAIL
E9.0 SCALE: NONE



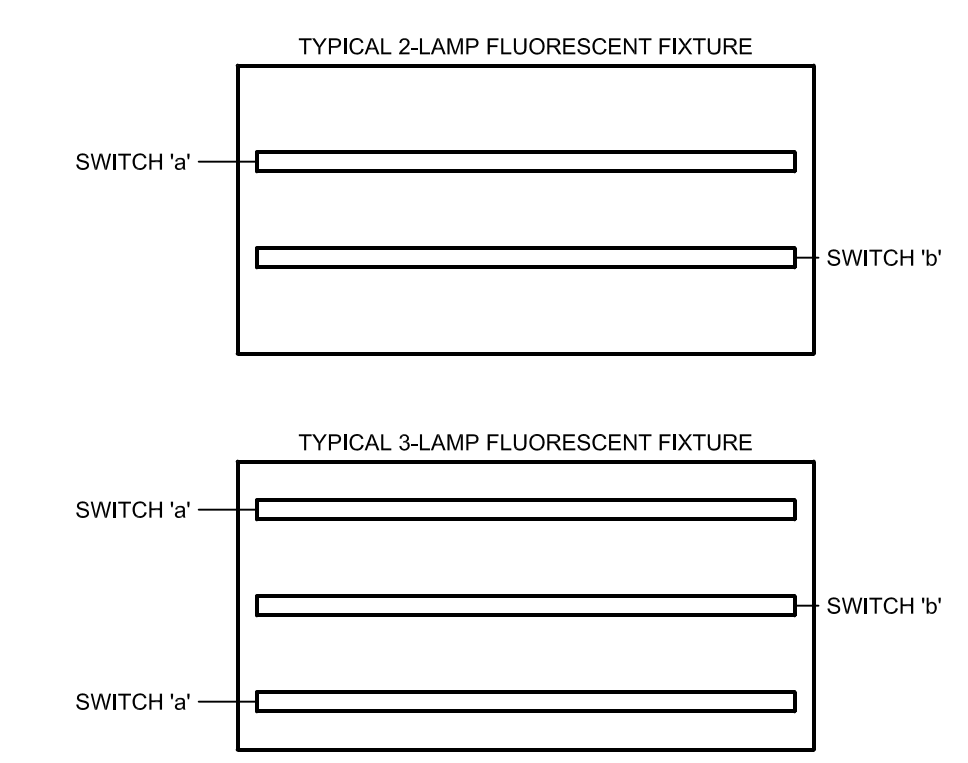
4 TYPE B OCCUPANCY SENSOR
E9.0 SCALE: NONE



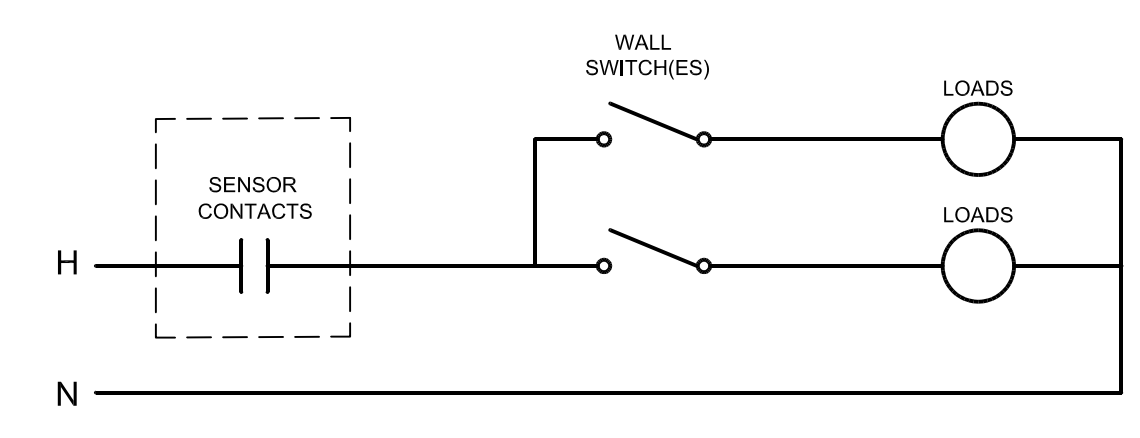
5 TYPE C OCCUPANCY SENSOR
E9.0 SCALE: NONE



1 FLOOR POKE-THRU DETAIL
E9.0 SCALE: NONE



2 TYPICAL MULTI-LEVEL SWITCHING DETAILS
E9.0 SCALE: NONE



3 TYPE A OCCUPANCY SENSOR
E9.0 SCALE: NONE

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E9.0